

# FCC TEST REPORT (WLAN 15.407)

**REPORT NO.:** RF131205E01-1

**MODEL NO.:** RTL8812AEBT

**FCC ID:** TX2RTL8812AEBT

**RECEIVED:** Dec. 04, 2013

**TESTED:** Dec. 24, 2013 to Jan. 17, 2014

**ISSUED:** Feb. 10, 2014

**APPLICANT:** Realtek Semiconductor Corp.

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## RELEASE CONTROL RECORD

| ISSUE NO.     | REASON FOR CHANGE | DATE ISSUED   |
|---------------|-------------------|---------------|
| RF131205E01-1 | Original release  | Feb. 10, 2014 |



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## 1. CERTIFICATION

**PRODUCT:** 802.11a/b/g/n/ac RTL8812AE Combo module  
**BRAND NAME:** Realtek  
**MODEL NO.:** RTL8812AEBT  
**TEST SAMPLE:** ENGINEERING SAMPLE  
**APPLICANT:** Realtek Semiconductor Corp.  
**TESTED:** Dec. 24, 2013 to Jan. 17, 2014  
**STANDARDS:** FCC Part 15, Subpart E (Section 15.407)  
ANSI C63.10-2009

The above equipment (Model: RTL8812AEBT) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

**PREPARED BY :** Midoli Peng , **DATE:** Feb. 10, 2014  
( Midoli Peng, Specialist )

**APPROVED BY :** May Chen , **DATE:** Feb. 10, 2014  
( May Chen, Manager )

## 2. SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: FCC PART 15, SUBPART E (SECTION 15.407) |                             |        |                                                                                 |
|-----------------------------------------------------------|-----------------------------|--------|---------------------------------------------------------------------------------|
| STANDARD SECTION                                          | TEST TYPE                   | RESULT | REMARK                                                                          |
| 15.407(b)(6)                                              | AC Power Conducted Emission | PASS   | Meet the requirement of limit. Minimum passing margin is -31.66dB at 1.39453MHz |
| 15.407(b)(1/2/3)<br>(b)(6)                                | Spurious Emissions          | PASS   | Meet the requirement of limit. Minimum passing margin is -1.0dB at 5725.0MHz.   |
| 15.407(a)(1/2)                                            | Transmit Power              | PASS   | Meet the requirement of limit.                                                  |
| 15.407(a)(6)                                              | Peak Power Excursion        | PASS   | Meet the requirement of limit.                                                  |
| 15.407(a)(1/2)                                            | Peak Power Spectral Density | PASS   | Meet the requirement of limit.                                                  |
| 15.407(g)                                                 | Frequency Stability         | PASS   | Meet the requirement of limit.                                                  |
| 15.203                                                    | Antenna Requirement         | PASS   | Antenna connector is IPEX not a standard connector.                             |

- NOTE:** 1. For WLAN: The EUT was operating in 2400 ~ 2483.5MHz, 5.15~5.35GHz, 5.47~5.6GHz & 5.65~5.725GHz and 5.725~5.850GHz frequencies band. This report was recorded the RF parameters including 5.15~5.35GHz, 5.47~5.6GHz & 5.65~5.725GHz. For the 2400 ~ 2483.5MHz and 5.725~5.850GHz RF parameters was recorded in another test report.
2. The DFS report was recorded in another test report.

## 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:

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of  $k=2$ .

| Measurement                       | Value   |
|-----------------------------------|---------|
| Conducted emissions               | 2.98 dB |
| Radiated emissions (30MHz-1GHz)   | 5.37 dB |
| Radiated emissions (1GHz -6GHz)   | 3.65 dB |
| Radiated emissions (6GHz -18GHz)  | 3.88 dB |
| Radiated emissions (18GHz -40GHz) | 4.11 dB |

### 3. GENERAL INFORMATION

#### 3.1 GENERAL DESCRIPTION OF EUT (WLAN)

|                              |                                                                                                                                                                                                                                                                        |
|------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>PRODUCT</b>               | 802.11a/b/g/n/ac RTL8812AE Combo module                                                                                                                                                                                                                                |
| <b>MODEL NO.</b>             | RTL8812AEBT                                                                                                                                                                                                                                                            |
| <b>POWER SUPPLY</b>          | DC 3.3V from host equipment                                                                                                                                                                                                                                            |
| <b>MODULATION TYPE</b>       | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM<br>BT-LE (GFSK) for DTS<br>256QAM for OFDM in 11ac mode only                                                                                                                                           |
| <b>MODULATION TECHNOLOGY</b> | DSSS, OFDM, DTS                                                                                                                                                                                                                                                        |
| <b>TRANSFER RATE</b>         | 802.11b: up to 11Mbps<br>802.11a / g: up to 54Mbps<br>802.11n: up to 300Mbps<br>802.11ac: up to 866.7Mbps<br>BT-LE (GFSK): 1Mbps                                                                                                                                       |
| <b>OPERATING FREQUENCY</b>   | <b>For 15.407</b><br><b>5GHz:</b> 5.18 ~ 5.24GHz, 5.26 ~ 5.32GHz,<br>5.50 ~ 5.58GHz & 5.66GHz ~ 5.70GHz                                                                                                                                                                |
|                              | <b>For 15.247</b><br><b>2.4GHz:</b> 2.412 ~ 2.462GHz<br><b>5GHz:</b> 5.745 ~ 5.825GHz<br><b>BT-LE(GFSK):</b> 2.402 ~ 2.480GHz                                                                                                                                          |
| <b>NUMBER OF CHANNEL</b>     | <b>For 15.407</b><br>16 for 802.11a, 802.11n (HT20), 802.11ac (VHT20)<br>7 for 802.11n (HT40), 802.11ac (VHT40)<br>3 for 802.11ac (VHT80)                                                                                                                              |
|                              | <b>For 15.247 (2.4GHz)</b><br>11 for 802.11b, 802.11g, 802.11n (HT20)<br>7 for 802.11n (HT40)<br>40 for BT-LE(GFSK)<br><b>For 15.247 (5GHz)</b><br>5 for 802.11a, 802.11n (HT20), 802.11ac (VHT20)<br>2 for 802.11n (HT40), 802.11ac (VHT40)<br>1 for 802.11ac (VHT80) |

|                             |                                                                                                                                                          |
|-----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MAXIMUM OUTPUT POWER</b> | <b>For 15.407</b><br>802.11a: 147.582mW<br>802.11ac (VHT20): 137.730mW<br>802.11ac (VHT40): 139.680mW<br>802.11ac (VHT80): 27.530mW                      |
|                             | <b>For 15.247 (2.4GHz)</b><br>802.11b: 123.310mW<br>802.11g: 572.434mW<br>802.11n (HT20): 514.717mW<br>802.11n (HT40): 393.088mW<br>BT-LE(GFSK): 2.415mW |
|                             | <b>For 15.247 (5GHz)</b><br>802.11a: 676.106mW<br>802.11ac (VHT20): 579.327mW<br>802.11ac (VHT40): 592.004mW<br>802.11ac (VHT80): 548.990mW              |
|                             | <b>ANTENNA TYPE</b>                                                                                                                                      |
|                             | Please see NOTE                                                                                                                                          |
| <b>DATA CABLE</b>           | NA                                                                                                                                                       |
| <b>I/O PORTS</b>            | Refer to user's manual                                                                                                                                   |
| <b>ASSOCIATED DEVICES</b>   | NA                                                                                                                                                       |

**Note:**

1. There are Bluetooth technology and WLAN technology used for the EUT.
2. For WLAN: 2.4GHz and 5GHz technology cannot transmit at same time.
3. WLAN & BT technology can transmit at same time.

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

| No. | Brand   | Model                                                                    | Antenna Type | Peak gain with cable loss (dBi) (2.4GHz) | Peak gain with cable loss(dBi) (5GHz) | Cable Loss (dB) (2.4GHz) | Cable Loss (dB) (5GHz) | Connector Type |
|-----|---------|--------------------------------------------------------------------------|--------------|------------------------------------------|---------------------------------------|--------------------------|------------------------|----------------|
| 1   | LYNwave | ALA110-222050-300010 (Main)<br>ALA110-222050-300010 (Aux)                | PIFA         | 3.5<br>3.5                               | 5<br>5                                | NA                       | NA                     | IPEX           |
| 2   | JOYMAX  | TWF-614XMPXX-500 (Main)<br>TWF-614XMPXX-500 (Aux)                        | Dipole       | 3<br>3                                   | 5<br>5                                | NA                       | NA                     | IPEX           |
| 3   | WGT     | SKA91WMPB02+A (Tx1)<br>SKA91WMPB01+A (Tx2)                               | PIFA         | 0.82<br>-2.23                            | 0.94<br>2.18                          | -1.32<br>-0.75           | -2.04<br>-1.17         | IPEX           |
| 4   | JEM     | 1510-0122-0027 (Tx1)<br>1510-0122-0027 (Tx2)                             | PIFA         | 3.23<br>2.31                             | 4.89<br>1.89                          | NA                       | NA                     | RF             |
| 5   | FVC     | K05007014501(6-23-7W25H-010) (Tx1)<br>K05007014501(6-23-7W25H-010) (Tx2) | PIFA         | 2.85<br>1.59                             | 2.46<br>2.91                          | NA                       | NA                     | IPEX           |
| 6   | JEM     | 1510-0122-0022(IA-120073) (Tx1)<br>1510-0122-0022(IA-120073) (Tx2)       | PIFA         | 2.23<br>2.21                             | 1.69<br>1.84                          | NA                       | NA                     | RF             |
| 7   | WGT     | SK81WMPB01+A (Tx1)<br>SK81WMPB02+A (Tx2)                                 | PIFA         | 1.79<br>0.66                             | 1.49<br>-0.40                         | -1.88<br>-2.95           | -3.17<br>-4.96         | IPEX           |
| 8   | WGT     | SKW2UWMPB01+A (Tx1)<br>SKW2UWMPB01+A (Tx2)                               | PIFA         | 1.36<br>2.88                             | 1.92<br>3.16                          | NA                       | NA                     | IPEX           |
| 9   | WGT     | SKW25WMPB01+A (Tx1)<br>SKW25WMPB01+A (Tx2)                               | PIFA         | 0.72<br>0.49                             | -0.72<br>-0.71                        | -1.41<br>-1.39           | -2.18<br>-2.15         | IPEX           |
| 10  | WGT     | SK549WMPB01+A (Tx1)<br>SK549WMPB02+A (Tx2)                               | PIFA         | -0.17<br>-2.24                           | -0.13<br>0.03                         | -1.04<br>-0.88           | -1.94<br>-1.64         | IPEX           |
| 11  | WGT     | SK110WMPB01+A (Tx1)<br>SK110WMPB02+A (Tx2)                               | PIFA         | 1.05<br>-0.41                            | 1.08<br>2.32                          | -0.98<br>-0.99           | -1.52<br>-1.54         | IPEX           |
| 12  | WGT     | SKW31WMPB01+A (Tx1)<br>SKW31WMPB01+A (Tx2)                               | PIFA         | 1.85<br>3.14                             | 1.74<br>2.10                          | NA                       | NA                     | IPEX           |
| 13  | FVC     | 6-23-7B51M-031 (Tx1)<br>6-23-7B51M-031 (Tx2)                             | PIFA         | 1.58<br>1.75                             | 2.54<br>2.24                          | NA                       | NA                     | IPEX           |
| 14  | FVC     | 6-23-7E51Q-011 (Tx1)<br>6-23-7E51Q-011 (Tx2)                             | PIFA         | 2.70<br>2.19                             | 1.57<br>2.94                          | NA                       | NA                     | IPEX           |
| 15  | FVC     | 6-23-7B710-022 (WM1)<br>6-23-7B710-022 (WM2)                             | PIFA         | 1.51<br>2.04                             | 2.99<br>3.02                          | NA                       | NA                     | IPEX           |
| 16  | WGT     | SKM11WMPB03+A (Tx1)<br>SKM11WMPB02+D (Tx2)                               | PIFA         | -1.84<br>-2.93                           | 0.44<br>1.35                          | 1.17<br>0.89             | 2.02<br>1.54           | IPEX           |
| 17  | WGT     | SKW23WMPB01+A (Tx1)<br>SKW23WMPB02+A (Tx2)                               | PIFA         | -1.61<br>-2.84                           | -0.14<br>-0.96                        | -2.10<br>-2.07           | -3.25<br>-3.20         | IPEX           |
| 18  | WGT     | SKW24WMPB01+B (WM1)<br>SKW24WMPB01+B (WM2)                               | PIFA         | 1.25<br>3.17                             | 1.95<br>2.42                          | NA                       | NA                     | IPEX           |



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| No. | Brand | Model                                                                        | Antenna Type | Peak gain with cable loss (dBi) (2.4GHz) | Peak gain with cable loss(dBi) (5GHz) | Cable Loss (dB) (2.4GHz) | Cable Loss (dB) (5GHz) | Connector Type |
|-----|-------|------------------------------------------------------------------------------|--------------|------------------------------------------|---------------------------------------|--------------------------|------------------------|----------------|
| 19  | FVC   | K05007015501(6-23-7W244-020-1) (Tx1)<br>K05007015501(6-23-7W244-020-1) (Tx2) | PIFA         | 2.53<br>2.28                             | 2.86<br>2.97                          | NA                       | NA                     | IPEX           |
| 20  | FVC   | K05007014201(6-23-7W25P-020) (Tx1)<br>K05007014201(6-23-7W25P-020) (Tx2)     | PIFA         | 3.00<br>1.52                             | 2.82<br>2.21                          | NA                       | NA                     | IPEX           |
| 21  | WGT   | SKW10WMPB01+A (Tx1)<br>SKW10WMPB02+A (Tx2)                                   | PIFA         | 0.85<br>0.44                             | 0.75<br>1.24                          | -1.56<br>-1.53           | -2.42<br>-2.36         | IPEX           |
| 22  | WGT   | SKCZTWMPB01+A (Tx1)<br>SKCZTWMPB02+A (Tx2)                                   | PIFA         | 0.46<br>-0.79                            | 2.80<br>1.03                          | -1.56<br>-1.53           | -2.42<br>-2.36         | IPEX           |
| 23  | JEM   | IA-120266 (Tx1)<br>IA-120267 (Tx2)                                           | PIFA         | 2.60<br>0.53                             | 2.61<br>2.60                          | 2.12<br>1.76             | 3.48<br>2.87           | IPEX           |
| 24  | WGT   | SK547WMPB01+A (Tx1)<br>SK549WMPB02+A (Tx2)                                   | PIFA         | -0.66<br>0.78                            | -0.19<br>2.06                         | -1.42<br>-1.43           | -2.20<br>-2.21         | IPEX           |
| 25  | WGT   | SK555WMPB01+B (Tx1)<br>SK555WMPB02+B (Tx2)                                   | PIFA         | 0.76<br>0.09                             | 1.97<br>0.56                          | -1.83<br>-1.80           | -2.83<br>-2.78         | IPEX           |
| 26  | WGT   | SK65EWMPB01+A (Tx1)<br>SK650WMPB02+A (Tx2)                                   | PIFA         | 0.42<br>-0.13                            | 0.11<br>1.27                          | -1.56<br>-0.61           | -2.41<br>-0.94         | IPEX           |
| 27  | WGT   | SK670WMPB01+A (Tx1)<br>SK670WMPB02+A (Tx2)                                   | PIFA         | 1.48<br>1.15                             | -0.44<br>0.42                         | -2.47<br>-1.93           | -3.82<br>-2.99         | IPEX           |
| 28  | WGT   | SK740WMPB01+A (Tx1)<br>SK740WMPB02+A (Tx2)                                   | PIFA         | -0.93<br>0.20                            | 0.96<br>0.86                          | -1.39<br>-1.26           | -2.16<br>-1.95         | IPEX           |
| 29  | WGT   | SK840WMPB01+B_SN (Tx1)<br>SK840WMPB01+B_SN (Tx2)                             | PIFA         | 3.03<br>0.55                             | 4.16<br>0.90                          | -1.12<br>-1.20           | -1.74<br>-1.86         | IPEX           |
| 30  | WGT   | SK94SWMPB01+B (TX1)<br>SK94SWMPB01+B (TX2)                                   | PIFA         | 0.76<br>0.46                             | 1.12<br>1.44                          | -0.32<br>-0.44           | -0.50<br>-0.68         | IPEX           |
| 31  | WGT   | SK94TWMPB01+B (TX1)<br>SK94TWMPB01+B (TX2)                                   | PIFA         | 1.32<br>1.86                             | 2.59<br>1.57                          | -0.59<br>-0.71           | -0.91<br>-1.10         | IPEX           |
| 32  | WGT   | SK50SWMPB01+A (TX1)<br>SK50SWMPB02+A (TX2)                                   | PIFA         | -0.03<br>-0.13                           | 1.25<br>2.13                          | -0.86<br>-0.72           | -1.32<br>-1.12         | IPEX           |
| 33  | WGT   | SK94TWMPB01+D (TX1)<br>SK94TWMPB01+D (TX2)                                   | PIFA         | 1.32<br>1.86                             | 2.59<br>1.57                          | -0.59<br>-0.71           | -0.91<br>-1.10         | IPEX           |
| 34  | WGT   | SKC45WMPB03+B (WM1)<br>SKC45WMPB03+B (WM2)                                   | PIFA         | 2.46<br>2.91                             | 2.90<br>2.67                          | NA                       | NA                     | IPEX           |
| 35  | FVC   | K05007015801 (WM1)<br>K05007015901 (WM2)                                     | PIFA         | 3.12<br>1.01                             | 3.51<br>1.93                          | NA                       | NA                     | RF             |
| 36  | WGT   | SK345WMPB01+A (WM1)<br>SK345WMPB02+A (WM2)                                   | PIFA         | 0.86<br>2.51                             | 2.94<br>3.25                          | NA                       | NA                     | IPEX           |
| 37  | FVC   | K05007014901 (WM1)<br>K05007015001 (WM2)                                     | PIFA         | 1.85<br>1.94                             | 1.35<br>1.99                          | NA                       | NA                     | IPEX           |
| 38  | WGT   | SKX51WMPB01+C (WM1)<br>SKX51WMPB02+C (WM2)                                   | PIFA         | 3.2<br>2.76                              | 2.28<br>2.51                          | NA                       | NA                     | IPEX           |

| No. | Brand          | Model                                         | Antenna Type | Peak gain with cable loss (dBi) (2.4GHz) | Peak gain with cable loss(dBi) (5GHz) | Cable Loss (dB) (2.4GHz) | Cable Loss (dB) (5GHz) | Connector Type |
|-----|----------------|-----------------------------------------------|--------------|------------------------------------------|---------------------------------------|--------------------------|------------------------|----------------|
| 39  | INPAQ          | WA-P-LB-02-122 (Main)<br>WA-P-LB-01-072 (Aux) | PIFA         | -1.41<br>-0.33                           | -2.44<br>-3.87                        | 1.23<br>1.86             | 2.06<br>3.12           | IPEX           |
| 40  | Smart Approach | SE-ECZ50-001 (Tx1)<br>SE-ECZ50-002 (Tx2)      | PIFA         | -1.37<br>-2.17                           | 1.83<br>1.86                          | 0.96<br>1.45             | 1.73<br>2.62           | IPEX           |
| 41  | INPAQ          | WA-P-LB-02-121 (Main)<br>WA-P-LB-01-071 (Aux) | PIFA         | -2.26<br>-4.63                           | -2.87<br>-2.49                        | 1.32<br>1.95             | 2.22<br>3.28           | IPEX           |
| 42  | Smart Approach | SE-ECZ70-001 (Tx1)<br>SE-ECZ70-002 (Tx2)      | PIFA         | -0.65<br>-2.39                           | 1.52<br>0.58                          | 1.03<br>1.52             | 1.87<br>2.76           | IPEX           |

Antenna 1 & 2 were chosen for final test.

5. The EUT incorporates a MIMO function.

| MODULATION MODE  | Tx/Rx FUNCTION     | Beam forming |
|------------------|--------------------|--------------|
| 802.11a          | 1Tx/2RX or 2Tx/2Rx | No           |
| 802.11b          | 1Tx/1Rx            | No           |
| 802.11g          | 1Tx/2RX or 2Tx/2Rx | No           |
| 802.11n (HT20)   | 1Tx/2RX or 2Tx/2Rx | Yes          |
| 802.11n (HT40)   | 1Tx/2RX or 2Tx/2Rx | Yes          |
| 802.11ac (VHT20) | 1Tx/2RX or 2Tx/2Rx | Yes          |
| 802.11ac (VHT40) | 1Tx/2RX or 2Tx/2Rx | Yes          |
| 802.11ac (VHT80) | 1Tx/2RX or 2Tx/2Rx | Yes          |

For 1Tx, 1Rx mode will fix transmission on Chain (0).

Note: The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz) and 802.11ac mode for 20MHz (40MHz), therefore investigated worst case to representative mode in test report. (Final test mode refer section 3.2.1)

- When the EUT operating in 802.11n, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 15.
- When the EUT operating in 802.11ac, the software operation, which is defined by manufacturer, MCS (Modulation and Coding Schemes) from 0 to 9.
- This device implement independent power value in different scenario in U-NII band 1. In the other band only implement one power value in all.
- The above EUT information was declared by the manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

## 3.2 DESCRIPTION OF TEST MODES

### Operated in 5150 ~ 5350MHz band:

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

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 36      | 5180 MHz  | 52      | 5260 MHz  |
| 40      | 5200 MHz  | 56      | 5280 MHz  |
| 44      | 5220 MHz  | 60      | 5300 MHz  |
| 48      | 5240 MHz  | 64      | 5320 MHz  |

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

| CHANNEL | FREQUENCY |
|---------|-----------|
| 38      | 5190 MHz  |
| 46      | 5230 MHz  |
| 54      | 5270 MHz  |
| 62      | 5310 MHz  |

2 channels are provided for 802.11ac (VHT80):

| CHANNEL | FREQUENCY |
|---------|-----------|
| 42      | 5210 MHz  |
| 58      | 5290 MHz  |

### Operated in 5470MHz ~ 5600MHz & 5650MHz ~ 5725MHz bands:

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

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 100     | 5500 MHz  | 116     | 5580 MHz  |
| 104     | 5520 MHz  | 132     | 5660 MHz  |
| 108     | 5540 MHz  | 136     | 5680 MHz  |
| 112     | 5560 MHz  | 140     | 5700 MHz  |

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

| CHANNEL | FREQUENCY |
|---------|-----------|
| 102     | 5510 MHz  |
| 110     | 5550 MHz  |
| 134     | 5670 MHz  |

1 channel is provided for 802.11ac (VHT80):

| CHANNEL | FREQUENCY |
|---------|-----------|
| 106     | 5530 MHz  |

### 3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

| EUT CONFIGURE MODE | APPLICABLE TO |         |         |      | DESCRIPTION         |
|--------------------|---------------|---------|---------|------|---------------------|
|                    | PLC           | RE < 1G | RE ≥ 1G | APCM |                     |
| Mode 1             | √             | √       | √       | √    | With PIFA antenna   |
| Mode 2             | -             | √       | √       | -    | With Dipole antenna |

Where **PLC**: Power Line Conducted Emission **RE < 1G**: Radiated Emission below 1GHz  
**RE ≥ 1G**: Radiated Emission above 1GHz **APCM**: Antenna Port Conducted Measurement

- NOTE:** 1. “-” means no effect.  
2. The EUT’s antenna (PIFA) had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on **Y-plane** (for below 1GHz) and **X-plane** (for above 1GHz).  
3. **For 802.11a/g and UNII band 1 mode:** Same transmitter may have different power setup in 1T and 2T mode as reported in power measurement section.  
4. **For 802.11b/n/ac mode:** Same transmitter outputs same power value in 1T and 2T mode.

#### **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.

| MODE                 | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|----------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| 802.11n (HT40) / 2Tx | 38 to 134         | 110            | OFDM                  | BPSK            | 13.5             |

#### **RADIATED EMISSION TEST (BELOW 1 GHz):**

- ☒ 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.

| MODE                 | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|----------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| 802.11n (HT40) / 2Tx | 38 to 134         | 110            | OFDM                  | BPSK            | 13.5             |

# **RADIATED EMISSION TEST (ABOVE 1 GHz):**

- ☒ 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.

| MODE                   | AVAILABLE CHANNEL | TESTED CHANNEL                             | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|------------------------|-------------------|--------------------------------------------|-----------------------|-----------------|------------------|
| 802.11a / 1Tx          | 36 to 140         | 36, 40, 48, 52, 60, 64, 100, 116, 132, 140 | OFDM                  | BPSK            | 6                |
| 802.11a / 2Tx          | 36 to 140         | 36, 40, 48, 52, 60, 64, 100, 116, 132, 140 | OFDM                  | BPSK            | 6                |
| 802.11n (HT20) / 1Tx   | 36 to 140         | 36, 40, 48                                 | OFDM                  | BPSK            | 6.5              |
| 802.11n (HT20) / 2Tx   | 36 to 140         | 36, 40, 48, 52, 60, 64, 100, 116, 132, 140 | OFDM                  | BPSK            | 6.5              |
| 802.11n (HT40) / 1Tx   | 38 to 134         | 38, 46                                     | OFDM                  | BPSK            | 13.5             |
| 802.11n (HT40) / 2Tx   | 38 to 134         | 38, 46, 54, 62, 102, 110, 134              | OFDM                  | BPSK            | 13.5             |
| 802.11ac (VHT80) / 1Tx | 42 to 106         | 42                                         | OFDM                  | BPSK            | 29.3             |
| 802.11ac (VHT80) / 2Tx | 42 to 106         | 42, 58, 106                                | OFDM                  | BPSK            | 29.3             |

#### ANTENNA PORT CONDUCTED MEASUREMENT:

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

| MODE                   | AVAILABLE CHANNEL | TESTED CHANNEL                             | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|------------------------|-------------------|--------------------------------------------|-----------------------|-----------------|------------------|
| 802.11a / 1Tx          | 36 to 140         | 36, 40, 48, 52, 60, 64, 100, 116, 132, 140 | OFDM                  | BPSK            | 6                |
| 802.11a / 2Tx          | 36 to 140         | 36, 40, 48, 52, 60, 64, 100, 116, 132, 140 | OFDM                  | BPSK            | 6                |
| 802.11n (HT20) / 1Tx   | 36 to 140         | 36, 40, 48                                 | OFDM                  | BPSK            | 6.5              |
| 802.11n (HT20) / 2Tx   | 36 to 140         | 36, 40, 48, 52, 60, 64, 100, 116, 132, 140 | OFDM                  | BPSK            | 6.5              |
| 802.11n (HT40) / 1Tx   | 38 to 134         | 38, 46                                     | OFDM                  | BPSK            | 13.5             |
| 802.11n (HT40) / 2Tx   | 38 to 134         | 38, 46, 54, 62, 102, 110, 134              | OFDM                  | BPSK            | 13.5             |
| 802.11ac (VHT80) / 1Tx | 42 to 106         | 42                                         | OFDM                  | BPSK            | 29.3             |
| 802.11ac (VHT80) / 2Tx | 42 to 106         | 42, 58, 106                                | OFDM                  | BPSK            | 29.3             |

#### TEST CONDITION:

| APPLICABLE TO      | ENVIRONMENTAL CONDITIONS | INPUT POWER (SYSTEM) | TESTED BY    |
|--------------------|--------------------------|----------------------|--------------|
| PLC                | 24deg. C, 53%RH          | 120Vac, 60Hz         | Bear Lee     |
| RE<1G              | 24deg. C, 64%RH          | 120Vac, 60Hz         | Jason Huang  |
| RE <sup>3</sup> 1G | 23deg. C, 66%RH          | 120Vac, 60Hz         | Tim Ho       |
| APCM               | 25deg. C, 60%RH          | 120Vac, 60Hz         | Nelson Tseng |

### 3.3 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)**

**789033 D01 General UNII Test Procedures v01 r03**

**662911 D01 Multiple Transmitter Output v02**

**ANSI C63.10-2009**

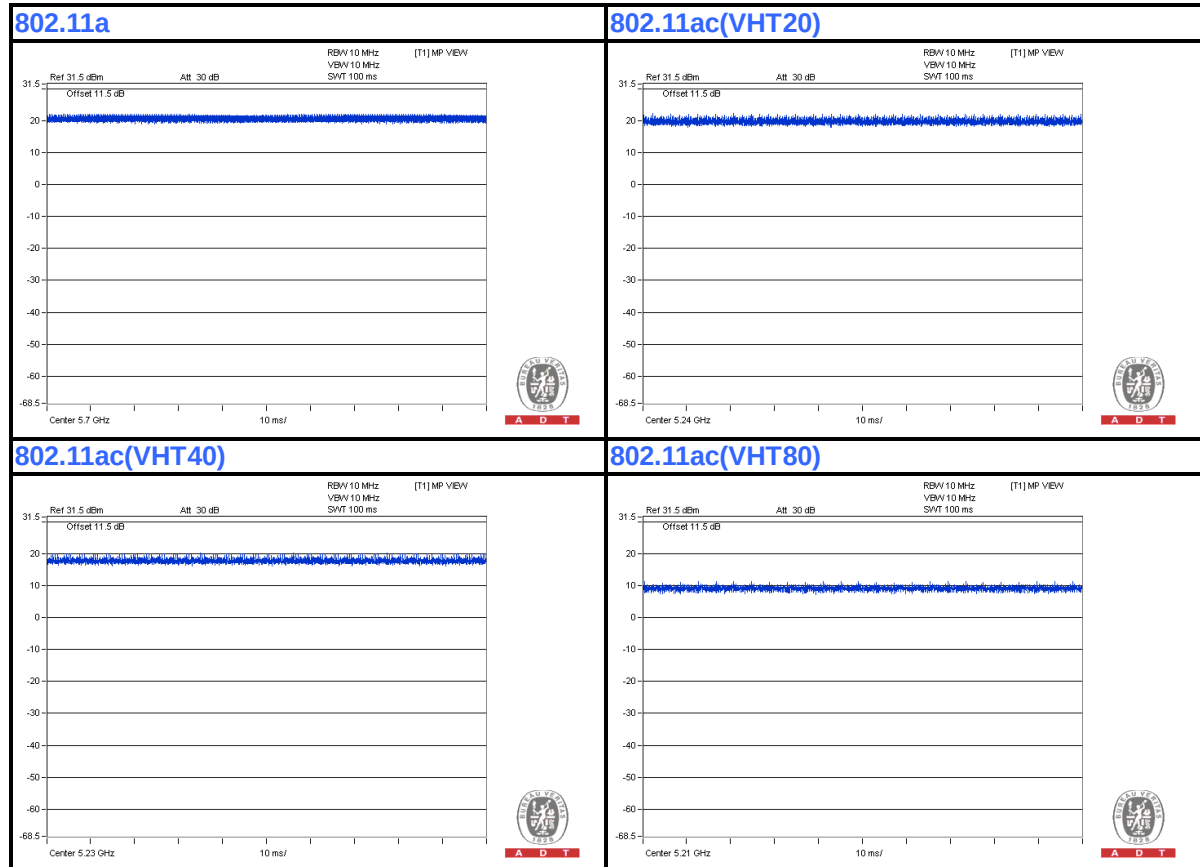
All test items have been performed and recorded as per the above standards.

**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.

### 3.4 DUTY CYCLE OF TEST SIGNAL

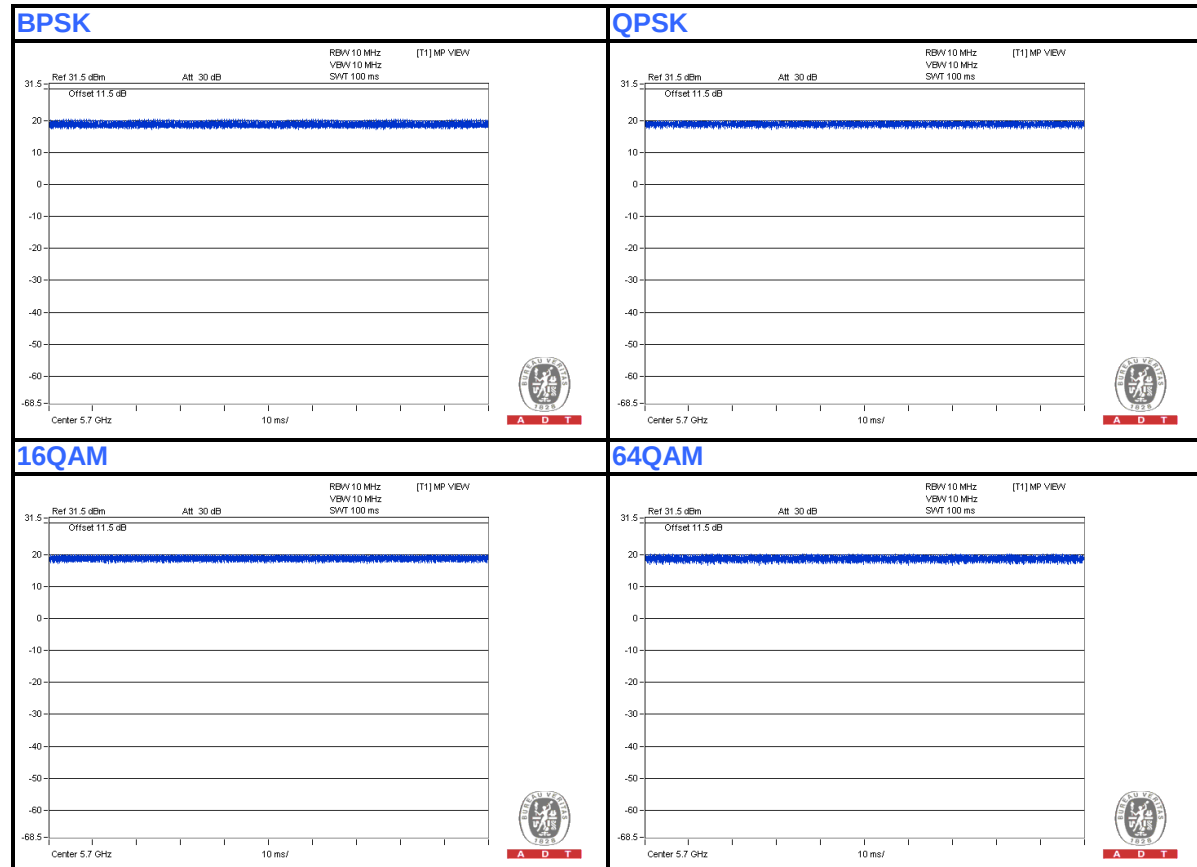
Duty cycle of test signal is 100 %, duty factor is not required.

For 1Tx



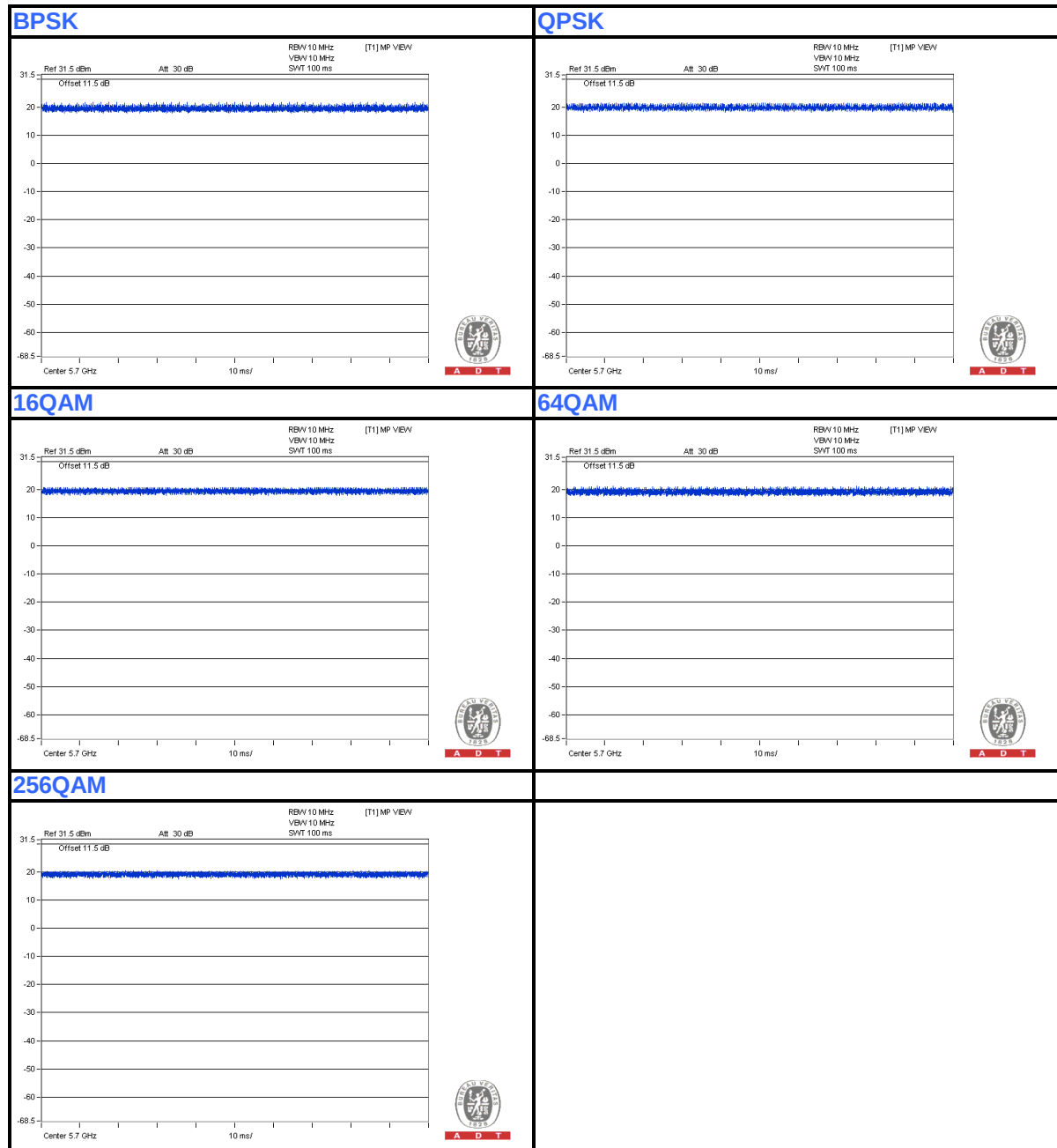
Duty cycle of test signal is 100 %, duty factor is not required.

### 802.11a, 2Tx



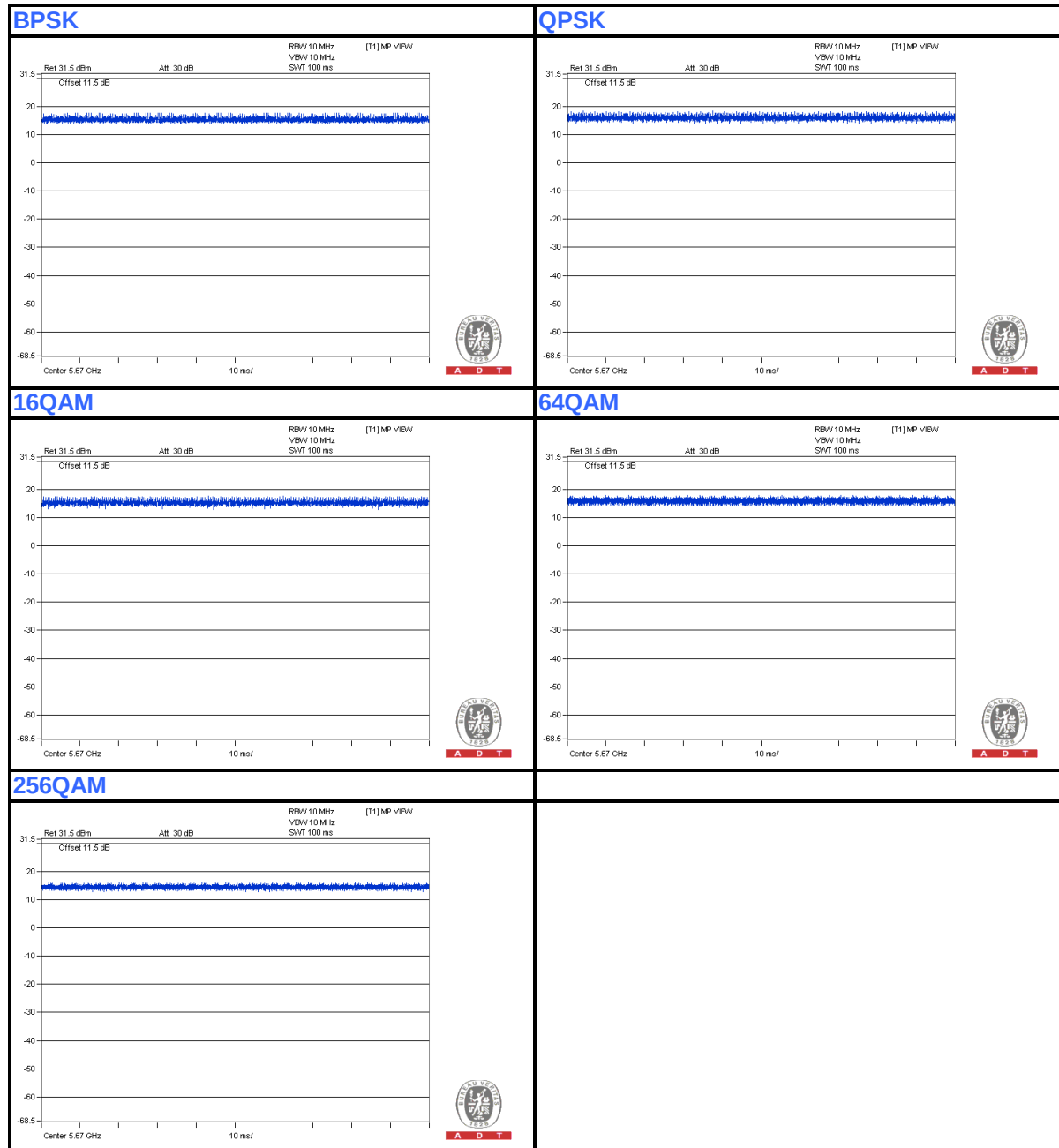
Duty cycle of test signal is 100 %, duty factor is not required.

### 802.11ac(VHT20), 2Tx



Duty cycle of test signal is 100 %, duty factor is not required.

802.11ac(VHT40), 2Tx



Duty cycle of test signal is 100 %, duty factor is not required.

802.11ac(VHT80), 2Tx



### 3.5 DESCRIPTION OF SUPPORT UNITS

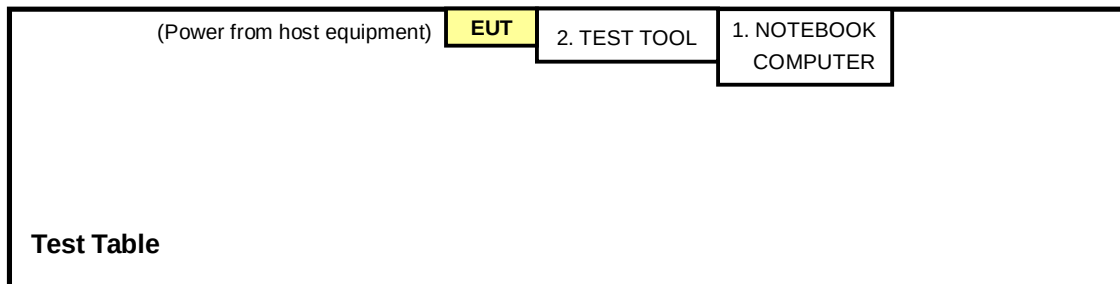
The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| No. | Product           | Brand   | Model No. | Serial No. | FCC ID  |
|-----|-------------------|---------|-----------|------------|---------|
| 1   | NOTEBOOK COMPUTER | DELL    | E6420     | 482T3R1    | FCC DoC |
| 2   | TEST TOOL         | Realtek | NA        | NA         | NA      |

| No. | Signal cable description |
|-----|--------------------------|
| 1   | NA                       |
| 2   | NA                       |

Note: The power cords of the above support units were unshielded (1.8m).

### 3.6 CONFIGURATION OF SYSTEM UNDER TEST



## 4. TEST TYPES AND RESULTS

### 4.1 CONDUCTED EMISSION MEASUREMENT

#### 4.1.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dB $\mu$ V) |          |
|-----------------------------|------------------------------|----------|
|                             | Quasi-peak                   | Average  |
| 0.15-0.5                    | 66 to 56                     | 56 to 46 |
| 0.5-5                       | 56                           | 46       |
| 5-30                        | 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 0.50 MHz.

#### 4.1.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER                                          | MODEL NO.                   | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---------------------------------------------------------------------|-----------------------------|------------|-----------------|------------------|
| Test Receiver<br>ROHDE & SCHWARZ                                    | ESCS 30                     | 100375     | Mar. 08, 2013   | Mar. 07, 2014    |
| Line-Impedance<br>Stabilization Network<br>(for EUT)<br>SCHWARZBECK | NSLK8127                    | 8127-522   | Sep. 05, 2013   | Sep. 04, 2014    |
| Line-Impedance<br>Stabilization Network<br>(for Peripheral)         | ENV216                      | 100072     | June 06, 2013   | June 05, 2014    |
| RF Cable<br>(JYEBAO)                                                | 5DFB                        | COCCAB-001 | Mar. 11, 2013   | Mar. 10, 2014    |
| 50 ohms Terminator                                                  | 50                          | EMC-03     | Sep. 24, 2013   | Sep. 23, 2014    |
| Software<br>ADT                                                     | BV<br>ADT_Cond_V7.3.7.<br>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 Shielded Room No. C.
3. The VCCI Con C Registration No. is C-3611.
4. Tested Date: Dec. 24, 2013

#### 4.1.3 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 level under (Limit – 20dB) was not recorded.

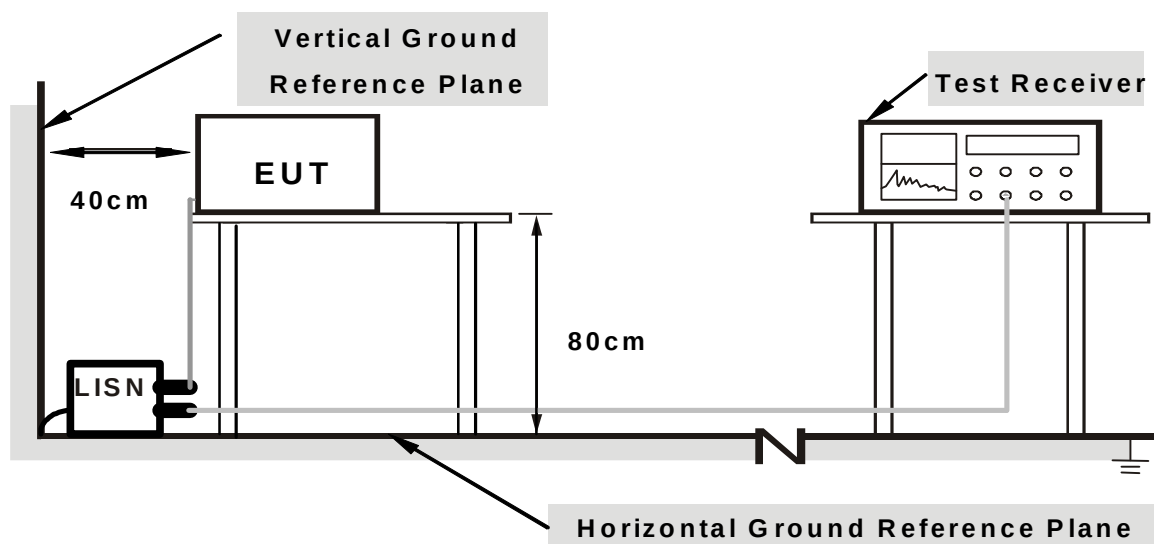
#### NOTE:

- The resolution bandwidth of test receiver is 9kHz for Quasi-peak detection (QP) & Average detection (AV).

#### 4.1.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.1.5 TEST SETUP



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

For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

#### 4.1.6 EUT OPERATING CONDITIONS

1. Connect the EUT with the support unit 1 (Notebook Computer) which is placed on a testing table.
2. The communication partner run test program  
“MP\_Kit\_RTL11ac\_8812AE\_PCIE\_v57\_20131202” to enable EUT under transmission/receiving condition continuously at specific channel frequency.

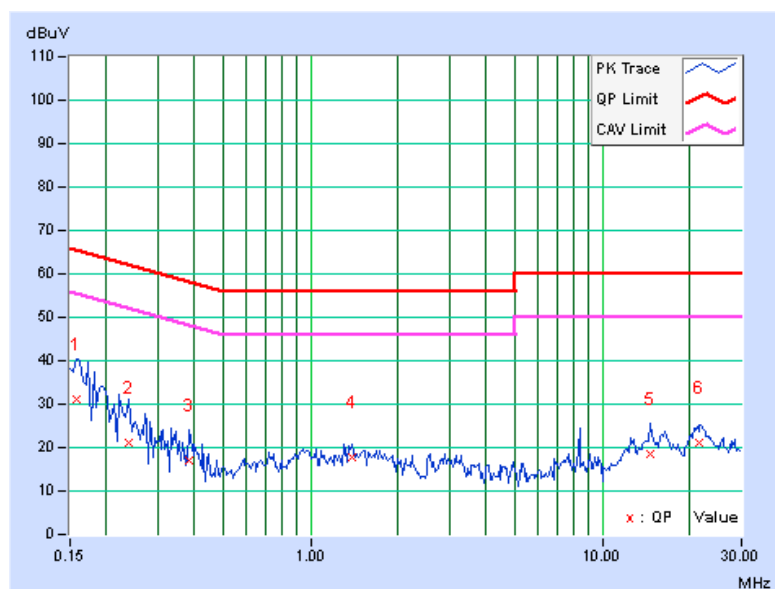
#### 4.1.7 TEST RESULTS

| PHASE | Line (L) | DETECTOR<br>FUNCTION | Quasi-Peak (QP) /<br>Average (AV) |
|-------|----------|----------------------|-----------------------------------|
|-------|----------|----------------------|-----------------------------------|

| No | Freq.<br>[MHz] | Corr.<br>Factor<br>[dB] | Reading<br>Value<br>[dB (uV)] |       | Emission<br>Level<br>[dB (uV)] |       | Limit<br>[dB (uV)] |       | Margin<br>(dB) |        |
|----|----------------|-------------------------|-------------------------------|-------|--------------------------------|-------|--------------------|-------|----------------|--------|
|    |                |                         | Q.P.                          | AV.   | Q.P.                           | AV.   | Q.P.               | AV.   | Q.P.           | AV.    |
| 1  | 0.15781        | 0.08                    | 30.98                         | 17.82 | 31.06                          | 17.90 | 65.58              | 55.58 | -34.52         | -37.68 |
| 2  | 0.23984        | 0.11                    | 20.93                         | 11.03 | 21.04                          | 11.14 | 62.10              | 52.10 | -41.06         | -40.96 |
| 3  | 0.38438        | 0.14                    | 17.02                         | 15.94 | 17.16                          | 16.08 | 58.18              | 48.18 | -41.03         | -32.11 |
| 4  | 1.39453        | 0.19                    | 17.48                         | 14.15 | 17.67                          | 14.34 | 56.00              | 46.00 | -38.33         | -31.66 |
| 5  | 14.64063       | 0.61                    | 17.79                         | 12.16 | 18.40                          | 12.77 | 60.00              | 50.00 | -41.60         | -37.23 |
| 6  | 21.58203       | 0.76                    | 20.40                         | 15.03 | 21.16                          | 15.79 | 60.00              | 50.00 | -38.84         | -34.21 |

#### REMARKS:

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

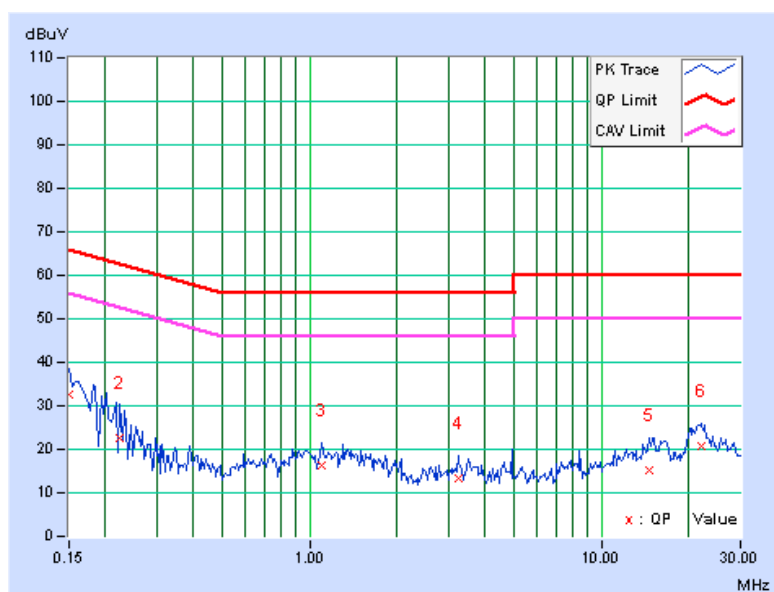


|       |             |                      |                                   |
|-------|-------------|----------------------|-----------------------------------|
| PHASE | Neutral (N) | DETECTOR<br>FUNCTION | Quasi-Peak (QP) /<br>Average (AV) |
|-------|-------------|----------------------|-----------------------------------|

|    | Freq.    | Corr.  | Reading Value |       | Emission Level |       | Limit     |       | Margin |        |
|----|----------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| No |          | Factor | [dB (uV)]     |       | [dB (uV)]      |       | [dB (uV)] |       | (dB)   |        |
|    | [MHz]    | (dB)   | Q.P.          | AV.   | Q.P.           | AV.   | Q.P.      | AV.   | Q.P.   | AV.    |
| 1  | 0.15000  | 0.09   | 32.41         | 18.16 | 32.50          | 18.25 | 66.00     | 56.00 | -33.50 | -37.75 |
| 2  | 0.22422  | 0.10   | 22.48         | 12.25 | 22.58          | 12.35 | 62.66     | 52.66 | -40.08 | -40.31 |
| 3  | 1.10547  | 0.18   | 16.08         | 13.79 | 16.26          | 13.97 | 56.00     | 46.00 | -39.74 | -32.03 |
| 4  | 3.23828  | 0.26   | 13.20         | 7.68  | 13.46          | 7.94  | 56.00     | 46.00 | -42.54 | -38.06 |
| 5  | 14.51953 | 0.60   | 14.66         | 10.31 | 15.26          | 10.91 | 60.00     | 50.00 | -44.74 | -39.09 |
| 6  | 22.06250 | 0.76   | 20.11         | 14.37 | 20.87          | 15.13 | 60.00     | 50.00 | -39.13 | -34.87 |

#### 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



## 4.2 RADIATED EMISSION AND BANDEDGE MEASUREMENT

### 4.2.1 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.

### 4.2.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

| APPLICABLE TO | LIMIT                         |                                          |
|---------------|-------------------------------|------------------------------------------|
| √             | FIELD STRENGTH AT 3m (dBμV/m) |                                          |
|               | PK                            | AV                                       |
|               | 74                            | 54                                       |
|               | EIRP LIMIT (dBm)              | EQUIVALENT FIELD STRENGTH AT 3m (dBμV/m) |
|               | PK                            | PK                                       |
|               | -27                           | 68.3                                     |

**NOTE:**

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

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

#### 4.2.3 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER              | MODEL NO.                | SERIAL NO.                          | CALIBRATED DATE | CALIBRATED UNTIL |
|-----------------------------------------|--------------------------|-------------------------------------|-----------------|------------------|
| MXE EMI Receiver<br>Agilent             | N9038A                   | MY51210105                          | Jan. 29, 2013   | Jan. 28, 2014    |
| Pre-Amplifier<br>Mini-Circuits          | ZFL-1000VH2<br>B         | AMP-ZFL-03                          | Nov. 13, 2013   | Nov. 12, 2014    |
| Trilog Broadband Antenna<br>SCHWARZBECK | VULB 9168                | 9168-360                            | Mar. 19, 2013   | Mar. 18, 2014    |
| RF Cable                                | NA                       | CHGCAB_001                          | Oct. 05, 2013   | Oct. 04, 2014    |
| Spectrum Analyzer<br>R&S                | FSV40                    | 100964                              | July 15, 2013   | July 14, 2014    |
| Horn_Antenna<br>AISI                    | AIH.8018                 | 0000320091110                       | Nov. 18, 2013   | Nov. 17, 2014    |
| Pre-Amplifier<br>Agilent                | 8449B                    | 3008A02578                          | June 25, 2013   | June 24, 2014    |
| RF Cable                                | NA                       | RF104-201<br>RF104-203<br>RF104-204 | Dec. 12, 2013   | Dec. 11, 2014    |
| Spectrum Analyzer<br>Agilent            | E4446A                   | MY48250253                          | Aug. 28, 2013   | Aug. 27, 2014    |
| Pre-Amplifier<br>SPACEK LABS            | SLKKa-48-6               | 9K16                                | Nov. 13, 2013   | Nov. 12, 2014    |
| Horn_Antenna<br>SCHWARZBECK             | BBHA 9170                | 9170-424                            | Oct. 08, 2013   | Oct. 07, 2014    |
| Software                                | ADT_Radiated<br>_V8.7.07 | NA                                  | NA              | NA               |
| Antenna Tower & Turn Table<br>CT        | NA                       | 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 horn antenna, preamplifier (model: 8449B) are used only for the measurement of emission frequency above 1GHz if tested.
- 3 The test was performed in 966 Chamber No. G.
4. The FCC Site Registration No. is 966073.
- 5 The VCCI Site Registration No. is G-137.
- 6 The CANADA Site Registration No. is IC 7450H-2.
- 7 Tested Date: Jan. 17, 2014

#### 4.2.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 0.8 meters 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:**

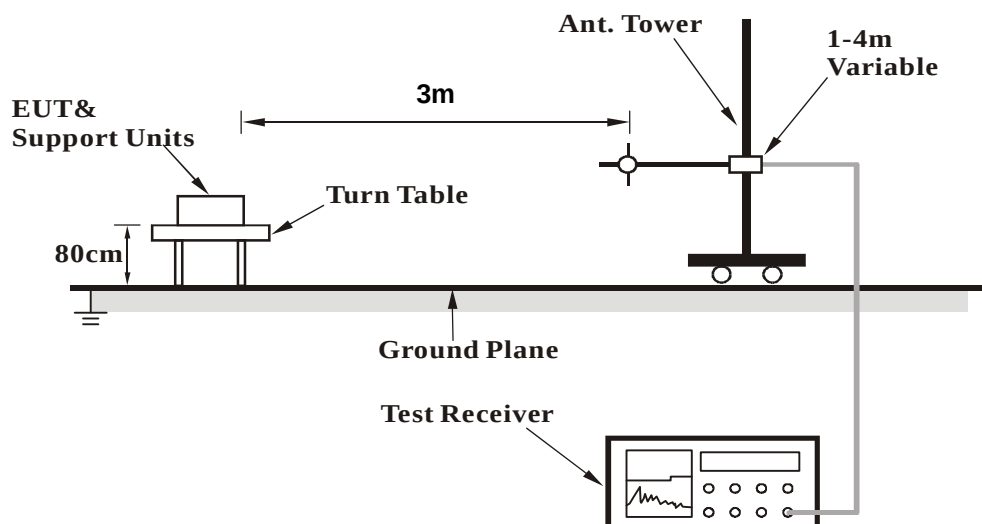
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for RMS Average (Duty cycle < 98%) for Average detection (AV) at frequency above 1GHz, then the measurement results was added to a correction factor ( $10 \log(1/\text{duty cycle})$ ).
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 10Hz (Duty cycle  $\geq 98\%$ ) for Average detection (AV) at frequency above 1GHz.
5. All modes of operation were investigated and the worst-case emissions are reported.

#### 4.2.5 DEVIATION FROM TEST STANDARD

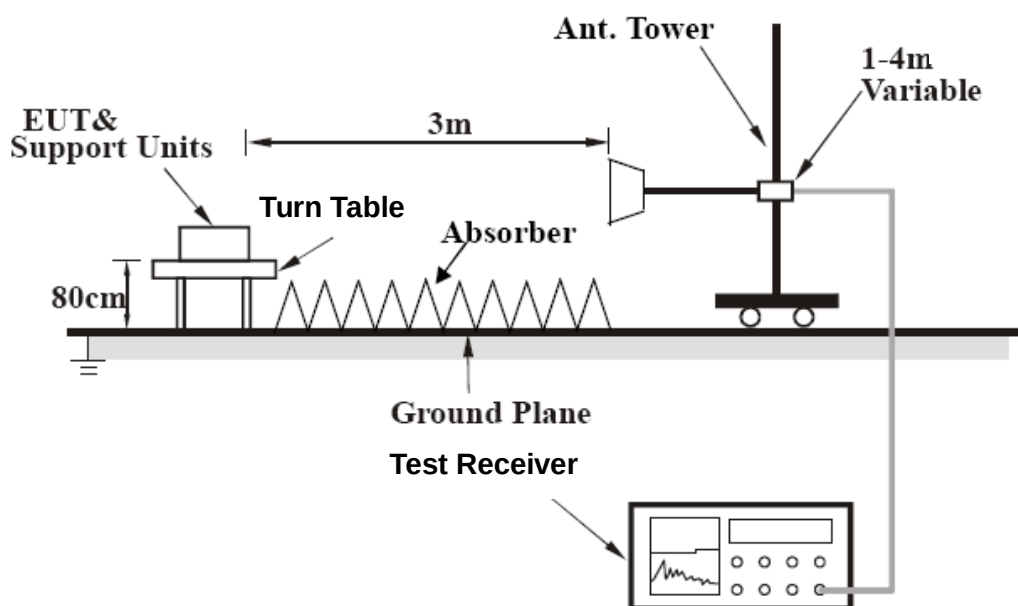
No deviation

## 4.2.6 TEST SETUP

### <Frequency Range below 1GHz>



### <Frequency Range above 1GHz>



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration.

## 4.2.7 EUT OPERATING CONDITION

Same as 4.1.6

## 4.2.8 TEST RESULTS (MODE 1)

### BELOW 1GHz WORST-CASE DATA

#### 802.11ac(VHT40), 2Tx

|                 |                |                      |                 |
|-----------------|----------------|----------------------|-----------------|
| CHANNEL         | TX Channel 110 | DETECTOR<br>FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | Below 1GHz     |                      |                 |

| 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                                                   | 117.93         | 25.6 QP                       | 43.5              | -17.9          | 1.00 H                   | 277                        | 40.91                  | -15.32                         |
| 2                                                   | 137.13         | 26.8 QP                       | 43.5              | -16.7          | 1.00 H                   | 183                        | 40.73                  | -13.92                         |
| 3                                                   | 166.83         | 32.8 QP                       | 43.5              | -10.7          | 1.50 H                   | 233                        | 46.72                  | -13.88                         |
| 4                                                   | 254.16         | 32.1 QP                       | 46.0              | -13.9          | 1.00 H                   | 280                        | 46.42                  | -14.32                         |
| 5                                                   | 400.01         | 28.4 QP                       | 46.0              | -17.6          | 1.00 H                   | 168                        | 38.32                  | -9.91                          |
| 6                                                   | 960.00         | 30.1 QP                       | 46.0              | -15.9          | 2.00 H                   | 174                        | 29.09                  | 1.03                           |
| 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                                                   | 117.36         | 35.2 QP                       | 43.5              | -8.3           | 1.00 V                   | 47                         | 50.60                  | -15.37                         |
| 2                                                   | 146.80         | 28.2 QP                       | 43.5              | -15.3          | 1.50 V                   | 32                         | 41.79                  | -13.56                         |
| 3                                                   | 250.10         | 31.6 QP                       | 46.0              | -14.4          | 1.50 V                   | 274                        | 45.91                  | -14.31                         |
| 4                                                   | 337.65         | 30.0 QP                       | 46.0              | -16.0          | 1.50 V                   | 163                        | 41.44                  | -11.42                         |
| 5                                                   | 400.25         | 29.4 QP                       | 46.0              | -16.6          | 1.50 V                   | 323                        | 39.32                  | -9.91                          |
| 6                                                   | 960.02         | 30.4 QP                       | 54.0              | -23.6          | 1.00 V                   | 96                         | 29.38                  | 1.03                           |

#### 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

# ABOVE 1GHz DATA

## 802.11a, 1Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 36 | 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        | 67.2 PK                       | 74.0              | -6.8           | 1.50 H                   | 88                         | 58.97                  | 8.23                           |
| 2                                                   | 5150.00        | 48.7 AV                       | 54.0              | -5.3           | 1.50 H                   | 88                         | 40.47                  | 8.23                           |
| 3                                                   | *5180.00       | 110.6 PK                      |                   |                | 1.48 H                   | 93                         | 102.37                 | 8.23                           |
| 4                                                   | *5180.00       | 102.1 AV                      |                   |                | 1.48 H                   | 93                         | 93.87                  | 8.23                           |
| 5                                                   | #10360.00      | 54.8 PK                       | 74.0              | -19.2          | 1.30 H                   | 246                        | 39.92                  | 14.88                          |
| 6                                                   | #10360.00      | 43.0 AV                       | 54.0              | -11.0          | 1.30 H                   | 246                        | 28.12                  | 14.88                          |
| 7                                                   | 15540.00       | 58.0 PK                       | 74.0              | -16.0          | 1.09 H                   | 117                        | 37.15                  | 20.85                          |
| 8                                                   | 15540.00       | 46.6 AV                       | 54.0              | -7.4           | 1.09 H                   | 117                        | 25.75                  | 20.85                          |
| 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        | 63.0 PK                       | 74.0              | -11.0          | 1.04 V                   | 350                        | 54.77                  | 8.23                           |
| 2                                                   | 5150.00        | 44.5 AV                       | 54.0              | -9.5           | 1.04 V                   | 350                        | 36.27                  | 8.23                           |
| 3                                                   | *5180.00       | 106.5 PK                      |                   |                | 1.04 V                   | 350                        | 98.27                  | 8.23                           |
| 4                                                   | *5180.00       | 97.9 AV                       |                   |                | 1.04 V                   | 350                        | 89.67                  | 8.23                           |
| 5                                                   | #10360.00      | 58.5 PK                       | 74.0              | -15.5          | 1.47 V                   | 303                        | 43.62                  | 14.88                          |
| 6                                                   | #10360.00      | 47.7 AV                       | 54.0              | -6.3           | 1.47 V                   | 303                        | 32.82                  | 14.88                          |
| 7                                                   | 15540.00       | 59.6 PK                       | 74.0              | -14.4          | 1.11 V                   | 34                         | 38.75                  | 20.85                          |
| 8                                                   | 15540.00       | 48.7 AV                       | 54.0              | -5.3           | 1.11 V                   | 34                         | 27.85                  | 20.85                          |

### 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<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                                                   | *5200.00       | 110.0 PK                      |                   |                | 1.21 H                   | 278                        | 101.76                 | 8.24                           |
| 2                                                   | *5200.00       | 101.8 AV                      |                   |                | 1.21 H                   | 278                        | 93.56                  | 8.24                           |
| 3                                                   | #10400.00      | 54.6 PK                       | 74.0              | -19.4          | 1.24 H                   | 234                        | 39.37                  | 15.23                          |
| 4                                                   | #10400.00      | 42.4 AV                       | 54.0              | -11.6          | 1.24 H                   | 234                        | 27.17                  | 15.23                          |
| 5                                                   | 15600.00       | 58.0 PK                       | 74.0              | -16.0          | 1.04 H                   | 139                        | 37.12                  | 20.88                          |
| 6                                                   | 15600.00       | 46.6 AV                       | 54.0              | -7.4           | 1.04 H                   | 139                        | 25.72                  | 20.88                          |
| 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       | 106.1 PK                      |                   |                | 1.04 V                   | 350                        | 97.86                  | 8.24                           |
| 2                                                   | *5200.00       | 98.2 AV                       |                   |                | 1.04 V                   | 350                        | 89.96                  | 8.24                           |
| 3                                                   | #10400.00      | 58.7 PK                       | 74.0              | -15.3          | 1.53 V                   | 289                        | 43.47                  | 15.23                          |
| 4                                                   | #10400.00      | 47.9 AV                       | 54.0              | -6.1           | 1.53 V                   | 289                        | 32.67                  | 15.23                          |
| 5                                                   | 15600.00       | 59.8 PK                       | 74.0              | -14.2          | 1.12 V                   | 49                         | 38.92                  | 20.88                          |
| 6                                                   | 15600.00       | 49.2 AV                       | 54.0              | -4.8           | 1.12 V                   | 49                         | 28.32                  | 20.88                          |

**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<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                                                   | *5240.00       | 110.9 PK                      |                   |                | 1.49 H                   | 90                         | 102.50                 | 8.40                           |
| 2                                                   | *5240.00       | 102.4 AV                      |                   |                | 1.49 H                   | 90                         | 94.00                  | 8.40                           |
| 3                                                   | #10480.00      | 54.7 PK                       | 74.0              | -19.3          | 1.22 H                   | 243                        | 39.49                  | 15.21                          |
| 4                                                   | #10480.00      | 42.6 AV                       | 54.0              | -11.4          | 1.22 H                   | 243                        | 27.39                  | 15.21                          |
| 5                                                   | 15720.00       | 57.8 PK                       | 74.0              | -16.2          | 1.02 H                   | 142                        | 36.93                  | 20.87                          |
| 6                                                   | 15720.00       | 46.3 AV                       | 54.0              | -7.7           | 1.02 H                   | 142                        | 25.43                  | 20.87                          |
| 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       | 106.9 PK                      |                   |                | 1.13 V                   | 43                         | 98.50                  | 8.40                           |
| 2                                                   | *5240.00       | 98.6 AV                       |                   |                | 1.13 V                   | 43                         | 90.20                  | 8.40                           |
| 3                                                   | #10480.00      | 57.9 PK                       | 74.0              | -16.1          | 1.48 V                   | 293                        | 42.69                  | 15.21                          |
| 4                                                   | #10480.00      | 47.2 AV                       | 54.0              | -6.8           | 1.48 V                   | 293                        | 31.99                  | 15.21                          |
| 5                                                   | 15720.00       | 59.7 PK                       | 74.0              | -14.3          | 1.13 V                   | 43                         | 38.83                  | 20.87                          |
| 6                                                   | 15720.00       | 48.9 AV                       | 54.0              | -5.1           | 1.13 V                   | 43                         | 28.03                  | 20.87                          |

**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<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                                                   | *5260.00       | 114.0 PK                      |                   |                | 1.47 H                   | 90                         | 105.54                 | 8.46                           |
| 2                                                   | *5260.00       | 104.8 AV                      |                   |                | 1.47 H                   | 90                         | 96.34                  | 8.46                           |
| 3                                                   | #10520.00      | 54.8 PK                       | 74.0              | -19.2          | 1.23 H                   | 239                        | 39.54                  | 15.26                          |
| 4                                                   | #10520.00      | 42.5 AV                       | 54.0              | -11.5          | 1.23 H                   | 239                        | 27.24                  | 15.26                          |
| 5                                                   | 15780.00       | 58.0 PK                       | 74.0              | -16.0          | 1.03 H                   | 150                        | 37.25                  | 20.75                          |
| 6                                                   | 15780.00       | 46.4 AV                       | 54.0              | -7.6           | 1.03 H                   | 150                        | 25.65                  | 20.75                          |
| 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                                                   | *5260.00       | 110.2 PK                      |                   |                | 1.09 V                   | 28                         | 101.74                 | 8.46                           |
| 2                                                   | *5260.00       | 100.8 AV                      |                   |                | 1.09 V                   | 28                         | 92.34                  | 8.46                           |
| 3                                                   | #10520.00      | 59.0 PK                       | 74.0              | -15.0          | 1.52 V                   | 317                        | 43.74                  | 15.26                          |
| 4                                                   | #10520.00      | 48.1 AV                       | 54.0              | -5.9           | 1.52 V                   | 317                        | 32.84                  | 15.26                          |
| 5                                                   | 15780.00       | 59.9 PK                       | 74.0              | -14.1          | 1.09 V                   | 46                         | 39.15                  | 20.75                          |
| 6                                                   | 15780.00       | 49.2 AV                       | 54.0              | -4.8           | 1.09 V                   | 46                         | 28.45                  | 20.75                          |

**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<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                                                   | *5300.00       | 113.3 PK                      |                   |                | 1.46 H                   | 91                         | 104.68                 | 8.62                           |
| 2                                                   | *5300.00       | 104.0 AV                      |                   |                | 1.46 H                   | 91                         | 95.38                  | 8.62                           |
| 3                                                   | 10600.00       | 54.2 PK                       | 74.0              | -19.8          | 1.22 H                   | 234                        | 38.67                  | 15.53                          |
| 4                                                   | 10600.00       | 41.9 AV                       | 54.0              | -12.1          | 1.22 H                   | 234                        | 26.37                  | 15.53                          |
| 5                                                   | 15900.00       | 57.8 PK                       | 74.0              | -16.2          | 1.00 H                   | 144                        | 36.50                  | 21.30                          |
| 6                                                   | 15900.00       | 46.2 AV                       | 54.0              | -7.8           | 1.00 H                   | 144                        | 24.90                  | 21.30                          |
| 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       | 109.4 PK                      |                   |                | 1.11 V                   | 43                         | 100.78                 | 8.62                           |
| 2                                                   | *5300.00       | 100.2 AV                      |                   |                | 1.11 V                   | 43                         | 91.58                  | 8.62                           |
| 3                                                   | 10600.00       | 58.4 PK                       | 74.0              | -15.6          | 1.48 V                   | 311                        | 42.87                  | 15.53                          |
| 4                                                   | 10600.00       | 47.5 AV                       | 54.0              | -6.5           | 1.48 V                   | 311                        | 31.97                  | 15.53                          |
| 5                                                   | 15900.00       | 59.3 PK                       | 74.0              | -14.7          | 1.05 V                   | 34                         | 38.00                  | 21.30                          |
| 6                                                   | 15900.00       | 48.5 AV                       | 54.0              | -5.5           | 1.05 V                   | 34                         | 27.20                  | 21.30                          |

**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.

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| 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       | 111.5 PK                      |                   |                | 1.45 H                   | 91                         | 102.81                 | 8.69                           |
| 2                                                   | *5320.00       | 102.2 AV                      |                   |                | 1.45 H                   | 91                         | 93.51                  | 8.69                           |
| 3                                                   | 5350.00        | 70.6 PK                       | 74.0              | -3.4           | 1.46 H                   | 90                         | 61.80                  | 8.80                           |
| 4                                                   | 5350.00        | 52.7 AV                       | 54.0              | -1.3           | 1.46 H                   | 90                         | 43.90                  | 8.80                           |
| 5                                                   | 10640.00       | 54.9 PK                       | 74.0              | -19.1          | 1.26 H                   | 244                        | 39.36                  | 15.54                          |
| 6                                                   | 10640.00       | 42.5 AV                       | 54.0              | -11.5          | 1.26 H                   | 244                        | 26.96                  | 15.54                          |
| 7                                                   | 15960.00       | 58.0 PK                       | 74.0              | -16.0          | 1.04 H                   | 143                        | 37.18                  | 20.82                          |
| 8                                                   | 15960.00       | 46.5 AV                       | 54.0              | -7.5           | 1.04 H                   | 143                        | 25.68                  | 20.82                          |
| 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       | 107.7 PK                      |                   |                | 1.07 V                   | 20                         | 99.01                  | 8.69                           |
| 2                                                   | *5320.00       | 98.6 AV                       |                   |                | 1.07 V                   | 20                         | 89.91                  | 8.69                           |
| 3                                                   | 5350.00        | 66.7 PK                       | 74.0              | -7.3           | 1.07 V                   | 20                         | 57.90                  | 8.80                           |
| 4                                                   | 5350.00        | 48.6 AV                       | 54.0              | -5.4           | 1.07 V                   | 20                         | 39.80                  | 8.80                           |
| 5                                                   | 10640.00       | 58.2 PK                       | 74.0              | -15.8          | 1.51 V                   | 309                        | 42.66                  | 15.54                          |
| 6                                                   | 10640.00       | 47.4 AV                       | 54.0              | -6.6           | 1.51 V                   | 309                        | 31.86                  | 15.54                          |
| 7                                                   | 15960.00       | 60.2 PK                       | 74.0              | -13.8          | 1.11 V                   | 33                         | 39.38                  | 20.82                          |
| 8                                                   | 15960.00       | 49.1 AV                       | 54.0              | -4.9           | 1.11 V                   | 33                         | 28.28                  | 20.82                          |

**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.



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|                 |                |                      |              |
|-----------------|----------------|----------------------|--------------|
| CHANNEL         | TX Channel 100 | 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                                                   | #5470.00       | 70.1 PK                       | 74.0              | -3.9           | 1.46 H                   | 87                         | 60.88                  | 9.22                           |
| 2                                                   | #5470.00       | 52.7 AV                       | 54.0              | -1.3           | 1.46 H                   | 87                         | 43.48                  | 9.22                           |
| 3                                                   | *5500.00       | 113.4 PK                      |                   |                | 1.46 H                   | 87                         | 104.07                 | 9.33                           |
| 4                                                   | *5500.00       | 104.3 AV                      |                   |                | 1.46 H                   | 87                         | 94.97                  | 9.33                           |
| 5                                                   | 11000.00       | 55.2 PK                       | 74.0              | -18.8          | 1.23 H                   | 257                        | 38.25                  | 16.95                          |
| 6                                                   | 11000.00       | 42.9 AV                       | 54.0              | -11.1          | 1.23 H                   | 257                        | 25.95                  | 16.95                          |
| 7                                                   | #16500.00      | 58.4 PK                       | 74.0              | -15.6          | 1.05 H                   | 134                        | 35.36                  | 23.04                          |
| 8                                                   | #16500.00      | 47.0 AV                       | 54.0              | -7.0           | 1.05 H                   | 134                        | 23.96                  | 23.04                          |
| 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                                                   | #5470.00       | 66.1 PK                       | 74.0              | -7.9           | 1.10 V                   | 14                         | 56.88                  | 9.22                           |
| 2                                                   | #5470.00       | 48.6 AV                       | 54.0              | -5.4           | 1.10 V                   | 14                         | 39.38                  | 9.22                           |
| 3                                                   | *5500.00       | 109.4 PK                      |                   |                | 1.10 V                   | 14                         | 100.07                 | 9.33                           |
| 4                                                   | *5500.00       | 100.0 AV                      |                   |                | 1.10 V                   | 14                         | 90.67                  | 9.33                           |
| 5                                                   | 11000.00       | 58.1 PK                       | 74.0              | -15.9          | 1.49 V                   | 293                        | 41.15                  | 16.95                          |
| 6                                                   | 11000.00       | 47.4 AV                       | 54.0              | -6.6           | 1.49 V                   | 293                        | 30.45                  | 16.95                          |
| 7                                                   | #16500.00      | 59.5 PK                       | 74.0              | -14.5          | 1.10 V                   | 31                         | 36.46                  | 23.04                          |
| 8                                                   | #16500.00      | 48.8 AV                       | 54.0              | -5.2           | 1.10 V                   | 31                         | 25.76                  | 23.04                          |

**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<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                                                   | *5580.00       | 114.0 PK                      |                   |                | 1.38 H                   | 84                         | 104.53                 | 9.47                           |
| 2                                                   | *5580.00       | 105.2 AV                      |                   |                | 1.38 H                   | 84                         | 95.73                  | 9.47                           |
| 3                                                   | #5740.00       | 59.1 PK                       | 74.0              | -14.9          | 1.38 H                   | 84                         | 49.17                  | 9.93                           |
| 4                                                   | #5740.00       | 49.1 AV                       | 54.0              | -4.9           | 1.38 H                   | 84                         | 39.17                  | 9.93                           |
| 5                                                   | 11160.00       | 55.7 PK                       | 74.0              | -18.3          | 1.21 H                   | 243                        | 39.49                  | 16.21                          |
| 6                                                   | 11160.00       | 43.2 AV                       | 54.0              | -10.8          | 1.21 H                   | 243                        | 26.99                  | 16.21                          |
| 7                                                   | #16740.00      | 58.1 PK                       | 74.0              | -15.9          | 1.03 H                   | 135                        | 34.42                  | 23.68                          |
| 8                                                   | #16740.00      | 46.5 AV                       | 54.0              | -7.5           | 1.03 H                   | 135                        | 22.82                  | 23.68                          |
| 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       | 109.8 PK                      |                   |                | 1.08 V                   | 8                          | 100.33                 | 9.47                           |
| 2                                                   | *5580.00       | 100.9 AV                      |                   |                | 1.08 V                   | 8                          | 91.43                  | 9.47                           |
| 3                                                   | #5740.00       | 55.4 PK                       | 74.0              | -18.6          | 1.08 V                   | 8                          | 45.47                  | 9.93                           |
| 4                                                   | #5740.00       | 45.5 AV                       | 54.0              | -8.5           | 1.08 V                   | 8                          | 35.57                  | 9.93                           |
| 5                                                   | 11160.00       | 58.7 PK                       | 74.0              | -15.3          | 1.45 V                   | 315                        | 42.49                  | 16.21                          |
| 6                                                   | 11160.00       | 47.9 AV                       | 54.0              | -6.1           | 1.45 V                   | 315                        | 31.69                  | 16.21                          |
| 7                                                   | #16740.00      | 59.5 PK                       | 74.0              | -14.5          | 1.08 V                   | 20                         | 35.82                  | 23.68                          |
| 8                                                   | #16740.00      | 48.9 AV                       | 54.0              | -5.1           | 1.08 V                   | 20                         | 25.22                  | 23.68                          |

**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 132 | 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                                                   | *5660.00       | 114.2 PK                      |                   |                | 1.37 H                   | 88                         | 104.47                 | 9.73                           |
| 2                                                   | *5660.00       | 105.4 AV                      |                   |                | 1.37 H                   | 88                         | 95.67                  | 9.73                           |
| 3                                                   | 11320.00       | 55.1 PK                       | 74.0              | -18.9          | 1.27 H                   | 267                        | 38.18                  | 16.92                          |
| 4                                                   | 11320.00       | 42.5 AV                       | 54.0              | -11.5          | 1.27 H                   | 267                        | 25.58                  | 16.92                          |
| 5                                                   | #16980.00      | 57.8 PK                       | 74.0              | -16.2          | 1.05 H                   | 124                        | 33.60                  | 24.20                          |
| 6                                                   | #16980.00      | 46.6 AV                       | 54.0              | -7.4           | 1.05 H                   | 124                        | 22.40                  | 24.20                          |
| 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                                                   | *5660.00       | 110.1 PK                      |                   |                | 1.02 V                   | 17                         | 100.37                 | 9.73                           |
| 2                                                   | *5660.00       | 101.4 AV                      |                   |                | 1.02 V                   | 17                         | 91.67                  | 9.73                           |
| 3                                                   | 11320.00       | 58.0 PK                       | 74.0              | -16.0          | 1.46 V                   | 298                        | 41.08                  | 16.92                          |
| 4                                                   | 11320.00       | 47.2 AV                       | 54.0              | -6.8           | 1.46 V                   | 298                        | 30.28                  | 16.92                          |
| 5                                                   | #16980.00      | 60.1 PK                       | 74.0              | -13.9          | 1.16 V                   | 44                         | 35.90                  | 24.20                          |
| 6                                                   | #16980.00      | 49.1 AV                       | 54.0              | -4.9           | 1.16 V                   | 44                         | 24.90                  | 24.20                          |

**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       | 111.3 PK                      |                   |                | 1.00 H                   | 346                        | 101.42                 | 9.88                           |
| 2                                                   | *5700.00       | 103.3 AV                      |                   |                | 1.00 H                   | 346                        | 93.42                  | 9.88                           |
| 3                                                   | #5725.00       | 69.6 PK                       | 74.0              | -4.4           | 1.00 H                   | 346                        | 59.69                  | 9.91                           |
| 4                                                   | #5725.00       | 52.5 AV                       | 54.0              | -1.5           | 1.00 H                   | 346                        | 42.59                  | 9.91                           |
| 5                                                   | 11400.00       | 54.7 PK                       | 74.0              | -19.3          | 1.19 H                   | 249                        | 37.95                  | 16.75                          |
| 6                                                   | 11400.00       | 42.6 AV                       | 54.0              | -11.4          | 1.19 H                   | 249                        | 25.85                  | 16.75                          |
| 7                                                   | #17100.00      | 58.1 PK                       | 74.0              | -15.9          | 1.02 H                   | 112                        | 33.04                  | 25.06                          |
| 8                                                   | #17100.00      | 46.7 AV                       | 54.0              | -7.3           | 1.02 H                   | 112                        | 21.64                  | 25.06                          |
| 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       | 107.3 PK                      |                   |                | 1.01 V                   | 5                          | 97.42                  | 9.88                           |
| 2                                                   | *5700.00       | 99.6 AV                       |                   |                | 1.01 V                   | 5                          | 89.72                  | 9.88                           |
| 3                                                   | #5725.00       | 65.9 PK                       | 74.0              | -8.1           | 1.01 V                   | 5                          | 55.99                  | 9.91                           |
| 4                                                   | #5725.00       | 48.6 AV                       | 54.0              | -5.4           | 1.01 V                   | 5                          | 38.69                  | 9.91                           |
| 5                                                   | 11400.00       | 58.7 PK                       | 74.0              | -15.3          | 1.43 V                   | 305                        | 41.95                  | 16.75                          |
| 6                                                   | 11400.00       | 48.0 AV                       | 54.0              | -6.0           | 1.43 V                   | 305                        | 31.25                  | 16.75                          |
| 7                                                   | #17100.00      | 59.6 PK                       | 74.0              | -14.4          | 1.12 V                   | 46                         | 34.54                  | 25.06                          |
| 8                                                   | #17100.00      | 48.6 AV                       | 54.0              | -5.4           | 1.12 V                   | 46                         | 23.54                  | 25.06                          |

**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(VHT20), 1Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 36 | 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        | 59.2 PK                       | 74.0              | -14.8          | 1.17 H                   | 262                        | 50.97                  | 8.23                           |
| 2                                                   | 5150.00        | 49.4 AV                       | 54.0              | -4.6           | 1.17 H                   | 262                        | 41.17                  | 8.23                           |
| 3                                                   | *5180.00       | 111.7 PK                      |                   |                | 1.17 H                   | 262                        | 103.47                 | 8.23                           |
| 4                                                   | *5180.00       | 102.0 AV                      |                   |                | 1.17 H                   | 262                        | 93.77                  | 8.23                           |
| 5                                                   | #10360.00      | 54.6 PK                       | 74.0              | -19.4          | 1.21 H                   | 204                        | 39.72                  | 14.88                          |
| 6                                                   | #10360.00      | 42.4 AV                       | 54.0              | -11.6          | 1.21 H                   | 204                        | 27.52                  | 14.88                          |
| 7                                                   | 15540.00       | 59.2 PK                       | 74.0              | -14.8          | 1.05 H                   | 148                        | 38.35                  | 20.85                          |
| 8                                                   | 15540.00       | 47.3 AV                       | 54.0              | -6.7           | 1.05 H                   | 148                        | 26.45                  | 20.85                          |
| 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          | 1.16 V                   | 203                        | 47.17                  | 8.23                           |
| 2                                                   | 5150.00        | 45.7 AV                       | 54.0              | -8.3           | 1.16 V                   | 203                        | 37.47                  | 8.23                           |
| 3                                                   | *5180.00       | 107.4 PK                      |                   |                | 1.16 V                   | 203                        | 99.17                  | 8.23                           |
| 4                                                   | *5180.00       | 97.6 AV                       |                   |                | 1.16 V                   | 203                        | 89.37                  | 8.23                           |
| 5                                                   | #10360.00      | 58.4 PK                       | 74.0              | -15.6          | 1.48 V                   | 276                        | 43.52                  | 14.88                          |
| 6                                                   | #10360.00      | 47.6 AV                       | 54.0              | -6.4           | 1.48 V                   | 276                        | 32.72                  | 14.88                          |
| 7                                                   | 15540.00       | 59.4 PK                       | 74.0              | -14.6          | 1.13 V                   | 60                         | 38.55                  | 20.85                          |
| 8                                                   | 15540.00       | 48.5 AV                       | 54.0              | -5.5           | 1.13 V                   | 60                         | 27.65                  | 20.85                          |

## 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<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                                                   | 5127.00        | 58.9 PK                       | 74.0              | -15.1          | 1.13 H                   | 256                        | 50.68                  | 8.22                           |
| 2                                                   | 5127.00        | 49.2 AV                       | 54.0              | -4.8           | 1.13 H                   | 256                        | 40.98                  | 8.22                           |
| 3                                                   | *5200.00       | 116.5 PK                      |                   |                | 1.13 H                   | 256                        | 108.26                 | 8.24                           |
| 4                                                   | *5200.00       | 107.2 AV                      |                   |                | 1.13 H                   | 256                        | 98.96                  | 8.24                           |
| 5                                                   | #10400.00      | 54.9 PK                       | 74.0              | -19.1          | 1.21 H                   | 204                        | 39.67                  | 15.23                          |
| 6                                                   | #10400.00      | 42.4 AV                       | 54.0              | -11.6          | 1.21 H                   | 204                        | 27.17                  | 15.23                          |
| 7                                                   | 15600.00       | 58.9 PK                       | 74.0              | -15.1          | 1.07 H                   | 162                        | 38.02                  | 20.88                          |
| 8                                                   | 15600.00       | 47.0 AV                       | 54.0              | -7.0           | 1.07 H                   | 162                        | 26.12                  | 20.88                          |
| 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        | 54.7 PK                       | 74.0              | -19.3          | 1.18 V                   | 212                        | 46.47                  | 8.23                           |
| 2                                                   | 5150.00        | 44.7 AV                       | 54.0              | -9.3           | 1.18 V                   | 212                        | 36.47                  | 8.23                           |
| 3                                                   | *5200.00       | 112.3 PK                      |                   |                | 1.18 V                   | 212                        | 104.06                 | 8.24                           |
| 4                                                   | *5200.00       | 102.9 AV                      |                   |                | 1.18 V                   | 212                        | 94.66                  | 8.24                           |
| 5                                                   | #10400.00      | 58.7 PK                       | 74.0              | -15.3          | 1.48 V                   | 263                        | 43.47                  | 15.23                          |
| 6                                                   | #10400.00      | 47.9 AV                       | 54.0              | -6.1           | 1.48 V                   | 263                        | 32.67                  | 15.23                          |
| 7                                                   | 15600.00       | 59.9 PK                       | 74.0              | -14.1          | 1.18 V                   | 67                         | 39.02                  | 20.88                          |
| 8                                                   | 15600.00       | 48.8 AV                       | 54.0              | -5.2           | 1.18 V                   | 67                         | 27.92                  | 20.88                          |

**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<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        | 59.7 PK                       | 74.0              | -14.3          | 1.20 H                   | 271                        | 51.47                  | 8.23                           |
| 2                                                   | 5150.00        | 49.8 AV                       | 54.0              | -4.2           | 1.20 H                   | 271                        | 41.57                  | 8.23                           |
| 3                                                   | *5240.00       | 119.0 PK                      |                   |                | 1.20 H                   | 271                        | 110.60                 | 8.40                           |
| 4                                                   | *5240.00       | 109.6 AV                      |                   |                | 1.20 H                   | 271                        | 101.20                 | 8.40                           |
| 5                                                   | #10480.00      | 54.4 PK                       | 74.0              | -19.6          | 1.17 H                   | 213                        | 39.19                  | 15.21                          |
| 6                                                   | #10480.00      | 42.0 AV                       | 54.0              | -12.0          | 1.17 H                   | 213                        | 26.79                  | 15.21                          |
| 7                                                   | 15720.00       | 59.2 PK                       | 74.0              | -14.8          | 1.09 H                   | 146                        | 38.33                  | 20.87                          |
| 8                                                   | 15720.00       | 47.4 AV                       | 54.0              | -6.6           | 1.09 H                   | 146                        | 26.53                  | 20.87                          |
| 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        | 56.0 PK                       | 74.0              | -18.0          | 1.10 V                   | 191                        | 47.77                  | 8.23                           |
| 2                                                   | 5150.00        | 45.9 AV                       | 54.0              | -8.1           | 1.10 V                   | 191                        | 37.67                  | 8.23                           |
| 3                                                   | *5240.00       | 114.6 PK                      |                   |                | 1.10 V                   | 191                        | 106.20                 | 8.40                           |
| 4                                                   | *5240.00       | 105.5 AV                      |                   |                | 1.10 V                   | 191                        | 97.10                  | 8.40                           |
| 5                                                   | #10480.00      | 58.2 PK                       | 74.0              | -15.8          | 1.52 V                   | 273                        | 42.99                  | 15.21                          |
| 6                                                   | #10480.00      | 47.7 AV                       | 54.0              | -6.3           | 1.52 V                   | 273                        | 32.49                  | 15.21                          |
| 7                                                   | 15720.00       | 59.3 PK                       | 74.0              | -14.7          | 1.10 V                   | 57                         | 38.43                  | 20.87                          |
| 8                                                   | 15720.00       | 48.1 AV                       | 54.0              | -5.9           | 1.10 V                   | 57                         | 27.23                  | 20.87                          |

**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(VHT40), 1Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 38 | 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        | 59.0 PK                       | 74.0              | -15.0          | 1.15 H                   | 275                        | 50.77                  | 8.23                           |
| 2                                                   | 5150.00        | 49.0 AV                       | 54.0              | -5.0           | 1.15 H                   | 275                        | 40.77                  | 8.23                           |
| 3                                                   | *5190.00       | 102.7 PK                      |                   |                | 1.15 H                   | 275                        | 94.46                  | 8.24                           |
| 4                                                   | *5190.00       | 92.5 AV                       |                   |                | 1.15 H                   | 275                        | 84.26                  | 8.24                           |
| 5                                                   | #10380.00      | 54.4 PK                       | 74.0              | -19.6          | 1.24 H                   | 209                        | 39.34                  | 15.06                          |
| 6                                                   | #10380.00      | 42.4 AV                       | 54.0              | -11.6          | 1.24 H                   | 209                        | 27.34                  | 15.06                          |
| 7                                                   | 15570.00       | 59.8 PK                       | 74.0              | -14.2          | 1.02 H                   | 135                        | 38.94                  | 20.86                          |
| 8                                                   | 15570.00       | 47.7 AV                       | 54.0              | -6.3           | 1.02 H                   | 135                        | 26.84                  | 20.86                          |
| 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          | 1.12 V                   | 209                        | 47.27                  | 8.23                           |
| 2                                                   | 5150.00        | 45.3 AV                       | 54.0              | -8.7           | 1.12 V                   | 209                        | 37.07                  | 8.23                           |
| 3                                                   | *5190.00       | 98.8 PK                       |                   |                | 1.12 V                   | 209                        | 90.56                  | 8.24                           |
| 4                                                   | *5190.00       | 88.7 AV                       |                   |                | 1.12 V                   | 209                        | 80.46                  | 8.24                           |
| 5                                                   | #10380.00      | 58.9 PK                       | 74.0              | -15.1          | 1.45 V                   | 281                        | 43.84                  | 15.06                          |
| 6                                                   | #10380.00      | 48.0 AV                       | 54.0              | -6.0           | 1.45 V                   | 281                        | 32.94                  | 15.06                          |
| 7                                                   | 15570.00       | 59.7 PK                       | 74.0              | -14.3          | 1.19 V                   | 65                         | 38.84                  | 20.86                          |
| 8                                                   | 15570.00       | 48.8 AV                       | 54.0              | -5.2           | 1.19 V                   | 65                         | 27.94                  | 20.86                          |

## 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<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                                                   | 5127.00        | 59.4 PK                       | 74.0              | -14.6          | 1.16 H                   | 257                        | 51.18                  | 8.22                           |
| 2                                                   | 5127.00        | 49.7 AV                       | 54.0              | -4.3           | 1.16 H                   | 257                        | 41.48                  | 8.22                           |
| 3                                                   | *5230.00       | 113.2 PK                      |                   |                | 1.16 H                   | 257                        | 104.84                 | 8.36                           |
| 4                                                   | *5230.00       | 103.4 AV                      |                   |                | 1.16 H                   | 257                        | 95.04                  | 8.36                           |
| 5                                                   | #10460.00      | 54.6 PK                       | 74.0              | -19.4          | 1.26 H                   | 192                        | 39.39                  | 15.21                          |
| 6                                                   | #10460.00      | 42.6 AV                       | 54.0              | -11.4          | 1.26 H                   | 192                        | 27.39                  | 15.21                          |
| 7                                                   | 15690.00       | 59.3 PK                       | 74.0              | -14.7          | 1.09 H                   | 145                        | 38.39                  | 20.91                          |
| 8                                                   | 15690.00       | 47.7 AV                       | 54.0              | -6.3           | 1.09 H                   | 145                        | 26.79                  | 20.91                          |
| 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        | 54.7 PK                       | 74.0              | -19.3          | 1.19 V                   | 187                        | 46.47                  | 8.23                           |
| 2                                                   | 5150.00        | 45.2 AV                       | 54.0              | -8.8           | 1.19 V                   | 187                        | 36.97                  | 8.23                           |
| 3                                                   | *5230.00       | 109.8 PK                      |                   |                | 1.19 V                   | 187                        | 101.44                 | 8.36                           |
| 4                                                   | *5230.00       | 99.7 AV                       |                   |                | 1.19 V                   | 187                        | 91.34                  | 8.36                           |
| 5                                                   | #10460.00      | 58.0 PK                       | 74.0              | -16.0          | 1.45 V                   | 283                        | 42.79                  | 15.21                          |
| 6                                                   | #10460.00      | 47.2 AV                       | 54.0              | -6.8           | 1.45 V                   | 283                        | 31.99                  | 15.21                          |
| 7                                                   | 15690.00       | 59.4 PK                       | 74.0              | -14.6          | 1.11 V                   | 70                         | 38.49                  | 20.91                          |
| 8                                                   | 15690.00       | 48.8 AV                       | 54.0              | -5.2           | 1.11 V                   | 70                         | 27.89                  | 20.91                          |

**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), 1Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| 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          | 1.22 H                   | 247                        | 51.07                  | 8.23                           |
| 2                                                   | 5150.00        | 49.2 AV                       | 54.0              | -4.8           | 1.22 H                   | 247                        | 40.97                  | 8.23                           |
| 3                                                   | *5210.00       | 103.6 PK                      |                   |                | 1.22 H                   | 247                        | 95.33                  | 8.27                           |
| 4                                                   | *5210.00       | 93.8 AV                       |                   |                | 1.22 H                   | 247                        | 85.53                  | 8.27                           |
| 5                                                   | #10420.00      | 54.4 PK                       | 74.0              | -19.6          | 1.18 H                   | 191                        | 39.19                  | 15.21                          |
| 6                                                   | #10420.00      | 42.1 AV                       | 54.0              | -11.9          | 1.18 H                   | 191                        | 26.89                  | 15.21                          |
| 7                                                   | 15630.00       | 59.0 PK                       | 74.0              | -15.0          | 1.05 H                   | 163                        | 38.11                  | 20.89                          |
| 8                                                   | 15630.00       | 47.1 AV                       | 54.0              | -6.9           | 1.05 H                   | 163                        | 26.21                  | 20.89                          |
| 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          | 1.12 V                   | 212                        | 47.87                  | 8.23                           |
| 2                                                   | 5150.00        | 45.7 AV                       | 54.0              | -8.3           | 1.12 V                   | 212                        | 37.47                  | 8.23                           |
| 3                                                   | *5210.00       | 99.9 PK                       |                   |                | 1.12 V                   | 212                        | 91.63                  | 8.27                           |
| 4                                                   | *5210.00       | 90.1 AV                       |                   |                | 1.12 V                   | 212                        | 81.83                  | 8.27                           |
| 5                                                   | #10420.00      | 58.4 PK                       | 74.0              | -15.6          | 1.45 V                   | 277                        | 43.19                  | 15.21                          |
| 6                                                   | #10420.00      | 47.4 AV                       | 54.0              | -6.6           | 1.45 V                   | 277                        | 32.19                  | 15.21                          |
| 7                                                   | 15630.00       | 59.2 PK                       | 74.0              | -14.8          | 1.17 V                   | 76                         | 38.31                  | 20.89                          |
| 8                                                   | 15630.00       | 48.4 AV                       | 54.0              | -5.6           | 1.17 V                   | 76                         | 27.51                  | 20.89                          |

## 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.

# 802.11a, 2Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 36 | 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                                                   | 5107.00        | 56.6 PK                       | 74.0              | -17.4          | 1.23 H                   | 102                        | 48.38                  | 8.22                           |
| 2                                                   | 5107.00        | 42.5 AV                       | 54.0              | -11.5          | 1.23 H                   | 102                        | 34.28                  | 8.22                           |
| 3                                                   | *5180.00       | 106.4 PK                      |                   |                | 1.23 H                   | 102                        | 98.17                  | 8.23                           |
| 4                                                   | *5180.00       | 97.5 AV                       |                   |                | 1.23 H                   | 102                        | 89.27                  | 8.23                           |
| 5                                                   | #10360.00      | 55.1 PK                       | 74.0              | -18.9          | 1.26 H                   | 234                        | 40.22                  | 14.88                          |
| 6                                                   | #10360.00      | 43.1 AV                       | 54.0              | -10.9          | 1.26 H                   | 234                        | 28.22                  | 14.88                          |
| 7                                                   | 15540.00       | 59.0 PK                       | 74.0              | -15.0          | 1.01 H                   | 138                        | 38.15                  | 20.85                          |
| 8                                                   | 15540.00       | 47.1 AV                       | 54.0              | -6.9           | 1.01 H                   | 138                        | 26.25                  | 20.85                          |
| 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        | 49.9 PK                       | 74.0              | -24.1          | 1.02 V                   | 340                        | 41.67                  | 8.23                           |
| 2                                                   | 5150.00        | 40.4 AV                       | 54.0              | -13.6          | 1.02 V                   | 340                        | 32.17                  | 8.23                           |
| 3                                                   | *5180.00       | 102.4 PK                      |                   |                | 1.02 V                   | 340                        | 94.17                  | 8.23                           |
| 4                                                   | *5180.00       | 93.2 AV                       |                   |                | 1.02 V                   | 340                        | 84.97                  | 8.23                           |
| 5                                                   | #10360.00      | 59.3 PK                       | 74.0              | -14.7          | 1.39 V                   | 265                        | 44.42                  | 14.88                          |
| 6                                                   | #10360.00      | 47.6 AV                       | 54.0              | -6.4           | 1.39 V                   | 265                        | 32.72                  | 14.88                          |
| 7                                                   | 15540.00       | 59.7 PK                       | 74.0              | -14.3          | 1.20 V                   | 72                         | 38.85                  | 20.85                          |
| 8                                                   | 15540.00       | 48.5 AV                       | 54.0              | -5.5           | 1.20 V                   | 72                         | 27.65                  | 20.85                          |

## 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<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                                                   | 5114.00        | 54.9 PK                       | 74.0              | -19.1          | 1.25 H                   | 78                         | 46.68                  | 8.22                           |
| 2                                                   | 5114.00        | 42.9 AV                       | 54.0              | -11.1          | 1.25 H                   | 78                         | 34.68                  | 8.22                           |
| 3                                                   | *5200.00       | 106.4 PK                      |                   |                | 1.25 H                   | 78                         | 98.16                  | 8.24                           |
| 4                                                   | *5200.00       | 97.2 AV                       |                   |                | 1.25 H                   | 78                         | 88.96                  | 8.24                           |
| 5                                                   | 5360.00        | 53.9 PK                       | 74.0              | -20.1          | 1.25 H                   | 78                         | 45.07                  | 8.83                           |
| 6                                                   | 5360.00        | 42.8 AV                       | 54.0              | -11.2          | 1.25 H                   | 78                         | 33.97                  | 8.83                           |
| 7                                                   | #10400.00      | 55.0 PK                       | 74.0              | -19.0          | 1.23 H                   | 220                        | 39.77                  | 15.23                          |
| 8                                                   | #10400.00      | 43.1 AV                       | 54.0              | -10.9          | 1.23 H                   | 220                        | 27.87                  | 15.23                          |
| 9                                                   | 15600.00       | 58.8 PK                       | 74.0              | -15.2          | 1.03 H                   | 129                        | 37.92                  | 20.88                          |
| 10                                                  | 15600.00       | 46.9 AV                       | 54.0              | -7.1           | 1.03 H                   | 129                        | 26.02                  | 20.88                          |
| 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                                                   | 5112.00        | 51.1 PK                       | 74.0              | -22.9          | 1.00 V                   | 354                        | 42.87                  | 8.23                           |
| 2                                                   | 5112.00        | 41.5 AV                       | 54.0              | -12.5          | 1.00 V                   | 354                        | 33.27                  | 8.23                           |
| 3                                                   | *5200.00       | 101.9 PK                      |                   |                | 1.00 V                   | 354                        | 93.66                  | 8.24                           |
| 4                                                   | *5200.00       | 92.9 AV                       |                   |                | 1.00 V                   | 354                        | 84.66                  | 8.24                           |
| 5                                                   | 5350.00        | 52.6 PK                       | 74.0              | -21.4          | 1.00 V                   | 354                        | 43.80                  | 8.80                           |
| 6                                                   | 5350.00        | 41.2 AV                       | 54.0              | -12.8          | 1.00 V                   | 354                        | 32.40                  | 8.80                           |
| 7                                                   | #10400.00      | 58.8 PK                       | 74.0              | -15.2          | 1.40 V                   | 280                        | 43.57                  | 15.23                          |
| 8                                                   | #10400.00      | 47.6 AV                       | 54.0              | -6.4           | 1.40 V                   | 280                        | 32.37                  | 15.23                          |
| 9                                                   | 15600.00       | 59.7 PK                       | 74.0              | -14.3          | 1.11 V                   | 65                         | 38.82                  | 20.88                          |
| 10                                                  | 15600.00       | 48.3 AV                       | 54.0              | -5.7           | 1.11 V                   | 65                         | 27.42                  | 20.88                          |

**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 48 | 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        | 51.2 PK                       | 74.0              | -22.8          | 1.23 H                   | 283                        | 42.97                  | 8.23                           |
| 2                                                   | 5150.00        | 40.2 AV                       | 54.0              | -13.8          | 1.23 H                   | 283                        | 31.97                  | 8.23                           |
| 3                                                   | *5240.00       | 106.8 PK                      |                   |                | 1.23 H                   | 283                        | 98.40                  | 8.40                           |
| 4                                                   | *5240.00       | 97.8 AV                       |                   |                | 1.23 H                   | 283                        | 89.40                  | 8.40                           |
| 5                                                   | 5400.00        | 53.6 PK                       | 74.0              | -20.4          | 1.23 H                   | 283                        | 44.63                  | 8.97                           |
| 6                                                   | 5400.00        | 42.7 AV                       | 54.0              | -11.3          | 1.23 H                   | 283                        | 33.73                  | 8.97                           |
| 7                                                   | #10480.00      | 54.6 PK                       | 74.0              | -19.4          | 1.21 H                   | 230                        | 39.39                  | 15.21                          |
| 8                                                   | #10480.00      | 42.8 AV                       | 54.0              | -11.2          | 1.21 H                   | 230                        | 27.59                  | 15.21                          |
| 9                                                   | 15720.00       | 58.4 PK                       | 74.0              | -15.6          | 1.04 H                   | 128                        | 37.53                  | 20.87                          |
| 10                                                  | 15720.00       | 46.7 AV                       | 54.0              | -7.3           | 1.04 H                   | 128                        | 25.83                  | 20.87                          |
| 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        | 50.2 PK                       | 74.0              | -23.8          | 1.06 V                   | 345                        | 41.97                  | 8.23                           |
| 2                                                   | 5150.00        | 39.3 AV                       | 54.0              | -14.7          | 1.06 V                   | 345                        | 31.07                  | 8.23                           |
| 3                                                   | *5240.00       | 102.3 PK                      |                   |                | 1.06 V                   | 345                        | 93.90                  | 8.40                           |
| 4                                                   | *5240.00       | 93.4 AV                       |                   |                | 1.06 V                   | 345                        | 85.00                  | 8.40                           |
| 5                                                   | 5400.00        | 52.6 PK                       | 74.0              | -21.4          | 1.06 V                   | 345                        | 43.63                  | 8.97                           |
| 6                                                   | 5400.00        | 42.0 AV                       | 54.0              | -12.0          | 1.06 V                   | 345                        | 33.03                  | 8.97                           |
| 7                                                   | #10480.00      | 58.5 PK                       | 74.0              | -15.5          | 1.42 V                   | 287                        | 43.29                  | 15.21                          |
| 8                                                   | #10480.00      | 47.2 AV                       | 54.0              | -6.8           | 1.42 V                   | 287                        | 31.99                  | 15.21                          |
| 9                                                   | 15720.00       | 59.7 PK                       | 74.0              | -14.3          | 1.10 V                   | 62                         | 38.83                  | 20.87                          |
| 10                                                  | 15720.00       | 48.6 AV                       | 54.0              | -5.4           | 1.10 V                   | 62                         | 27.73                  | 20.87                          |

**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<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                                                   | *5260.00       | 118.0 PK                      |                   |                | 1.45 H                   | 90                         | 109.54                 | 8.46                           |
| 2                                                   | *5260.00       | 109.3 AV                      |                   |                | 1.45 H                   | 90                         | 100.84                 | 8.46                           |
| 3                                                   | #10520.00      | 54.4 PK                       | 74.0              | -19.6          | 1.29 H                   | 224                        | 39.14                  | 15.26                          |
| 4                                                   | #10520.00      | 42.6 AV                       | 54.0              | -11.4          | 1.29 H                   | 224                        | 27.34                  | 15.26                          |
| 5                                                   | 15780.00       | 59.0 PK                       | 74.0              | -15.0          | 1.00 H                   | 140                        | 38.25                  | 20.75                          |
| 6                                                   | 15780.00       | 47.0 AV                       | 54.0              | -7.0           | 1.00 H                   | 140                        | 26.25                  | 20.75                          |
| 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                                                   | *5260.00       | 114.3 PK                      |                   |                | 1.11 V                   | 318                        | 105.84                 | 8.46                           |
| 2                                                   | *5260.00       | 105.4 AV                      |                   |                | 1.11 V                   | 318                        | 96.94                  | 8.46                           |
| 3                                                   | #10520.00      | 58.9 PK                       | 74.0              | -15.1          | 1.46 V                   | 293                        | 43.64                  | 15.26                          |
| 4                                                   | #10520.00      | 47.1 AV                       | 54.0              | -6.9           | 1.46 V                   | 293                        | 31.84                  | 15.26                          |
| 5                                                   | 15780.00       | 60.1 PK                       | 74.0              | -13.9          | 1.10 V                   | 73                         | 39.35                  | 20.75                          |
| 6                                                   | 15780.00       | 48.6 AV                       | 54.0              | -5.4           | 1.10 V                   | 73                         | 27.85                  | 20.75                          |

**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<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                                                   | *5300.00       | 117.1 PK                      |                   |                | 1.44 H                   | 95                         | 108.48                 | 8.62                           |
| 2                                                   | *5300.00       | 108.4 AV                      |                   |                | 1.44 H                   | 95                         | 99.78                  | 8.62                           |
| 3                                                   | 5374.00        | 61.9 PK                       | 74.0              | -12.1          | 1.41 H                   | 95                         | 53.02                  | 8.88                           |
| 4                                                   | 5374.00        | 51.1 AV                       | 54.0              | -2.9           | 1.41 H                   | 95                         | 42.22                  | 8.88                           |
| 5                                                   | 10600.00       | 55.0 PK                       | 74.0              | -19.0          | 1.27 H                   | 224                        | 39.47                  | 15.53                          |
| 6                                                   | 10600.00       | 42.8 AV                       | 54.0              | -11.2          | 1.27 H                   | 224                        | 27.27                  | 15.53                          |
| 7                                                   | 15900.00       | 58.5 PK                       | 74.0              | -15.5          | 1.00 H                   | 124                        | 37.20                  | 21.30                          |
| 8                                                   | 15900.00       | 46.7 AV                       | 54.0              | -7.3           | 1.00 H                   | 124                        | 25.40                  | 21.30                          |
| 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       | 112.1 PK                      |                   |                | 1.08 V                   | 305                        | 103.48                 | 8.62                           |
| 2                                                   | *5300.00       | 103.7 AV                      |                   |                | 1.08 V                   | 305                        | 95.08                  | 8.62                           |
| 3                                                   | 5374.00        | 57.7 PK                       | 74.0              | -16.3          | 1.08 V                   | 305                        | 48.82                  | 8.88                           |
| 4                                                   | 5374.00        | 47.2 AV                       | 54.0              | -6.8           | 1.08 V                   | 305                        | 38.32                  | 8.88                           |
| 5                                                   | 10600.00       | 59.4 PK                       | 74.0              | -14.6          | 1.49 V                   | 271                        | 43.87                  | 15.53                          |
| 6                                                   | 10600.00       | 47.8 AV                       | 54.0              | -6.2           | 1.49 V                   | 271                        | 32.27                  | 15.53                          |
| 7                                                   | 15900.00       | 60.4 PK                       | 74.0              | -13.6          | 1.22 V                   | 55                         | 39.10                  | 21.30                          |
| 8                                                   | 15900.00       | 48.8 AV                       | 54.0              | -5.2           | 1.22 V                   | 55                         | 27.50                  | 21.30                          |

**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.

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| 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       | 114.4 PK                      |                   |                | 1.45 H                   | 91                         | 105.71                 | 8.69                           |
| 2                                                   | *5320.00       | 105.8 AV                      |                   |                | 1.45 H                   | 91                         | 97.11                  | 8.69                           |
| 3                                                   | 5350.00        | 70.9 PK                       | 74.0              | -3.1           | 1.48 H                   | 99                         | 62.10                  | 8.80                           |
| 4                                                   | 5350.00        | 52.8 AV                       | 54.0              | -1.2           | 1.48 H                   | 99                         | 44.00                  | 8.80                           |
| 5                                                   | 10640.00       | 54.7 PK                       | 74.0              | -19.3          | 1.23 H                   | 220                        | 39.16                  | 15.54                          |
| 6                                                   | 10640.00       | 42.5 AV                       | 54.0              | -11.5          | 1.23 H                   | 220                        | 26.96                  | 15.54                          |
| 7                                                   | 15960.00       | 58.9 PK                       | 74.0              | -15.1          | 1.10 H                   | 140                        | 38.08                  | 20.82                          |
| 8                                                   | 15960.00       | 47.1 AV                       | 54.0              | -6.9           | 1.10 H                   | 140                        | 26.28                  | 20.82                          |
| 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       | 109.4 PK                      |                   |                | 1.12 V                   | 292                        | 100.71                 | 8.69                           |
| 2                                                   | *5320.00       | 100.7 AV                      |                   |                | 1.12 V                   | 292                        | 92.01                  | 8.69                           |
| 3                                                   | 5350.00        | 66.0 PK                       | 74.0              | -8.0           | 1.12 V                   | 292                        | 57.20                  | 8.80                           |
| 4                                                   | 5350.00        | 48.1 AV                       | 54.0              | -5.9           | 1.12 V                   | 292                        | 39.30                  | 8.80                           |
| 5                                                   | 10640.00       | 59.0 PK                       | 74.0              | -15.0          | 1.47 V                   | 284                        | 43.46                  | 15.54                          |
| 6                                                   | 10640.00       | 47.2 AV                       | 54.0              | -6.8           | 1.47 V                   | 284                        | 31.66                  | 15.54                          |
| 7                                                   | 15960.00       | 59.4 PK                       | 74.0              | -14.6          | 1.15 V                   | 50                         | 38.58                  | 20.82                          |
| 8                                                   | 15960.00       | 48.0 AV                       | 54.0              | -6.0           | 1.15 V                   | 50                         | 27.18                  | 20.82                          |

**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.

|                 |                |                      |              |
|-----------------|----------------|----------------------|--------------|
| CHANNEL         | TX Channel 100 | 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                                                   | 5414.00        | 69.5 PK                       | 74.0              | -4.5           | 1.48 H                   | 98                         | 60.49                  | 9.01                           |
| 2                                                   | 5414.00        | 52.8 AV                       | 54.0              | -1.2           | 1.48 H                   | 98                         | 43.79                  | 9.01                           |
| 3                                                   | *5500.00       | 116.5 PK                      |                   |                | 1.47 H                   | 89                         | 107.17                 | 9.33                           |
| 4                                                   | *5500.00       | 107.8 AV                      |                   |                | 1.47 H                   | 89                         | 98.47                  | 9.33                           |
| 5                                                   | 11000.00       | 54.7 PK                       | 74.0              | -19.3          | 1.21 H                   | 232                        | 37.75                  | 16.95                          |
| 6                                                   | 11000.00       | 42.6 AV                       | 54.0              | -11.4          | 1.21 H                   | 232                        | 25.65                  | 16.95                          |
| 7                                                   | #16500.00      | 58.8 PK                       | 74.0              | -15.2          | 1.04 H                   | 150                        | 35.76                  | 23.04                          |
| 8                                                   | #16500.00      | 46.8 AV                       | 54.0              | -7.2           | 1.04 H                   | 150                        | 23.76                  | 23.04                          |
| 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                                                   | #5470.00       | 65.1 PK                       | 74.0              | -8.9           | 1.11 V                   | 271                        | 55.88                  | 9.22                           |
| 2                                                   | #5470.00       | 48.8 AV                       | 54.0              | -5.2           | 1.11 V                   | 271                        | 39.58                  | 9.22                           |
| 3                                                   | *5500.00       | 112.8 PK                      |                   |                | 1.11 V                   | 271                        | 103.47                 | 9.33                           |
| 4                                                   | *5500.00       | 103.8 AV                      |                   |                | 1.11 V                   | 271                        | 94.47                  | 9.33                           |
| 5                                                   | 11000.00       | 59.5 PK                       | 74.0              | -14.5          | 1.43 V                   | 278                        | 42.55                  | 16.95                          |
| 6                                                   | 11000.00       | 47.8 AV                       | 54.0              | -6.2           | 1.43 V                   | 278                        | 30.85                  | 16.95                          |
| 7                                                   | #16500.00      | 59.0 PK                       | 74.0              | -15.0          | 1.13 V                   | 59                         | 35.96                  | 23.04                          |
| 8                                                   | #16500.00      | 47.9 AV                       | 54.0              | -6.1           | 1.13 V                   | 59                         | 24.86                  | 23.04                          |

**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<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                                                   | *5580.00       | 117.8 PK                      |                   |                | 1.46 H                   | 88                         | 108.33                 | 9.47                           |
| 2                                                   | *5580.00       | 109.2 AV                      |                   |                | 1.46 H                   | 88                         | 99.73                  | 9.47                           |
| 3                                                   | 11160.00       | 54.6 PK                       | 74.0              | -19.4          | 1.20 H                   | 231                        | 38.39                  | 16.21                          |
| 4                                                   | 11160.00       | 42.4 AV                       | 54.0              | -11.6          | 1.20 H                   | 231                        | 26.19                  | 16.21                          |
| 5                                                   | #16740.00      | 58.7 PK                       | 74.0              | -15.3          | 1.06 H                   | 125                        | 35.02                  | 23.68                          |
| 6                                                   | #16740.00      | 47.1 AV                       | 54.0              | -6.9           | 1.06 H                   | 125                        | 23.42                  | 23.68                          |
| 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       | 114.3 PK                      |                   |                | 1.07 V                   | 252                        | 104.83                 | 9.47                           |
| 2                                                   | *5580.00       | 105.6 AV                      |                   |                | 1.07 V                   | 252                        | 96.13                  | 9.47                           |
| 3                                                   | 11160.00       | 59.3 PK                       | 74.0              | -14.7          | 1.48 V                   | 291                        | 43.09                  | 16.21                          |
| 4                                                   | 11160.00       | 47.7 AV                       | 54.0              | -6.3           | 1.48 V                   | 291                        | 31.49                  | 16.21                          |
| 5                                                   | #16740.00      | 59.0 PK                       | 74.0              | -15.0          | 1.11 V                   | 67                         | 35.32                  | 23.68                          |
| 6                                                   | #16740.00      | 47.8 AV                       | 54.0              | -6.2           | 1.11 V                   | 67                         | 24.12                  | 23.68                          |

**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 132 | 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                                                   | #5474.00       | 62.3 PK                       | 74.0              | -11.7          | 1.39 H                   | 86                         | 53.07                  | 9.23                           |
| 2                                                   | #5474.00       | 52.4 AV                       | 54.0              | -1.6           | 1.39 H                   | 86                         | 43.17                  | 9.23                           |
| 3                                                   | *5660.00       | 117.7 PK                      |                   |                | 1.43 H                   | 91                         | 107.97                 | 9.73                           |
| 4                                                   | *5660.00       | 108.9 AV                      |                   |                | 1.43 H                   | 91                         | 99.17                  | 9.73                           |
| 5                                                   | 11320.00       | 54.7 PK                       | 74.0              | -19.3          | 1.23 H                   | 221                        | 37.78                  | 16.92                          |
| 6                                                   | 11320.00       | 42.6 AV                       | 54.0              | -11.4          | 1.23 H                   | 221                        | 25.68                  | 16.92                          |
| 7                                                   | #16980.00      | 58.6 PK                       | 74.0              | -15.4          | 1.11 H                   | 132                        | 34.40                  | 24.20                          |
| 8                                                   | #16980.00      | 47.1 AV                       | 54.0              | -6.9           | 1.11 H                   | 132                        | 22.90                  | 24.20                          |
| 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                                                   | #5474.00       | 58.3 PK                       | 74.0              | -15.7          | 1.05 V                   | 253                        | 49.07                  | 9.23                           |
| 2                                                   | #5474.00       | 48.7 AV                       | 54.0              | -5.3           | 1.05 V                   | 253                        | 39.47                  | 9.23                           |
| 3                                                   | *5660.00       | 112.7 PK                      |                   |                | 1.05 V                   | 253                        | 102.97                 | 9.73                           |
| 4                                                   | *5660.00       | 104.1 AV                      |                   |                | 1.05 V                   | 253                        | 94.37                  | 9.73                           |
| 5                                                   | 11320.00       | 58.4 PK                       | 74.0              | -15.6          | 1.37 V                   | 293                        | 41.48                  | 16.92                          |
| 6                                                   | 11320.00       | 47.0 AV                       | 54.0              | -7.0           | 1.37 V                   | 293                        | 30.08                  | 16.92                          |
| 7                                                   | #16980.00      | 59.8 PK                       | 74.0              | -14.2          | 1.22 V                   | 52                         | 35.60                  | 24.20                          |
| 8                                                   | #16980.00      | 48.6 AV                       | 54.0              | -5.4           | 1.22 V                   | 52                         | 24.40                  | 24.20                          |

**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       | 114.5 PK                      |                   |                | 1.41 H                   | 91                         | 104.62                 | 9.88                           |
| 2                                                   | *5700.00       | 106.0 AV                      |                   |                | 1.41 H                   | 91                         | 96.12                  | 9.88                           |
| 3                                                   | #5725.00       | 66.0 PK                       | 74.0              | -8.0           | 1.36 H                   | 88                         | 56.09                  | 9.91                           |
| 4                                                   | #5725.00       | 52.6 AV                       | 54.0              | -1.4           | 1.36 H                   | 88                         | 42.69                  | 9.91                           |
| 5                                                   | 11400.00       | 54.5 PK                       | 74.0              | -19.5          | 1.28 H                   | 228                        | 37.75                  | 16.75                          |
| 6                                                   | 11400.00       | 42.1 AV                       | 54.0              | -11.9          | 1.28 H                   | 228                        | 25.35                  | 16.75                          |
| 7                                                   | #17100.00      | 59.1 PK                       | 74.0              | -14.9          | 1.11 H                   | 150                        | 34.04                  | 25.06                          |
| 8                                                   | #17100.00      | 47.4 AV                       | 54.0              | -6.6           | 1.11 H                   | 150                        | 22.34                  | 25.06                          |
| 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       | 109.0 PK                      |                   |                | 1.01 V                   | 267                        | 99.12                  | 9.88                           |
| 2                                                   | *5700.00       | 101.0 AV                      |                   |                | 1.01 V                   | 267                        | 91.12                  | 9.88                           |
| 3                                                   | #5725.00       | 61.8 PK                       | 74.0              | -12.2          | 1.01 V                   | 267                        | 51.89                  | 9.91                           |
| 4                                                   | #5725.00       | 48.4 AV                       | 54.0              | -5.6           | 1.01 V                   | 267                        | 38.49                  | 9.91                           |
| 5                                                   | 11400.00       | 59.1 PK                       | 74.0              | -14.9          | 1.44 V                   | 271                        | 42.35                  | 16.75                          |
| 6                                                   | 11400.00       | 47.8 AV                       | 54.0              | -6.2           | 1.44 V                   | 271                        | 31.05                  | 16.75                          |
| 7                                                   | #17100.00      | 60.2 PK                       | 74.0              | -13.8          | 1.15 V                   | 57                         | 35.14                  | 25.06                          |
| 8                                                   | #17100.00      | 48.8 AV                       | 54.0              | -5.2           | 1.15 V                   | 57                         | 23.74                  | 25.06                          |

**REMARKS:**

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

# 802.11ac(VHT20), 2Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 36 | 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                                                   | 5105.00        | 55.0 PK                       | 74.0              | -19.0          | 1.23 H                   | 279                        | 46.78                  | 8.22                           |
| 2                                                   | 5105.00        | 42.9 AV                       | 54.0              | -11.1          | 1.23 H                   | 279                        | 34.68                  | 8.22                           |
| 3                                                   | *5180.00       | 108.9 PK                      |                   |                | 1.23 H                   | 279                        | 100.67                 | 8.23                           |
| 4                                                   | *5180.00       | 99.7 AV                       |                   |                | 1.23 H                   | 279                        | 91.47                  | 8.23                           |
| 5                                                   | #10360.00      | 54.7 PK                       | 74.0              | -19.3          | 1.24 H                   | 210                        | 39.82                  | 14.88                          |
| 6                                                   | #10360.00      | 42.7 AV                       | 54.0              | -11.3          | 1.24 H                   | 210                        | 27.82                  | 14.88                          |
| 7                                                   | 15540.00       | 58.2 PK                       | 74.0              | -15.8          | 1.10 H                   | 149                        | 37.35                  | 20.85                          |
| 8                                                   | 15540.00       | 46.7 AV                       | 54.0              | -7.3           | 1.10 H                   | 149                        | 25.85                  | 20.85                          |
| 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        | 53.0 PK                       | 74.0              | -21.0          | 1.00 V                   | 253                        | 44.77                  | 8.23                           |
| 2                                                   | 5150.00        | 40.8 AV                       | 54.0              | -13.2          | 1.00 V                   | 253                        | 32.57                  | 8.23                           |
| 3                                                   | *5180.00       | 104.4 PK                      |                   |                | 1.00 V                   | 253                        | 96.17                  | 8.23                           |
| 4                                                   | *5180.00       | 95.3 AV                       |                   |                | 1.00 V                   | 253                        | 87.07                  | 8.23                           |
| 5                                                   | #10360.00      | 59.1 PK                       | 74.0              | -14.9          | 1.43 V                   | 276                        | 44.22                  | 14.88                          |
| 6                                                   | #10360.00      | 47.5 AV                       | 54.0              | -6.5           | 1.43 V                   | 276                        | 32.62                  | 14.88                          |
| 7                                                   | 15540.00       | 59.3 PK                       | 74.0              | -14.7          | 1.19 V                   | 47                         | 38.45                  | 20.85                          |
| 8                                                   | 15540.00       | 48.2 AV                       | 54.0              | -5.8           | 1.19 V                   | 47                         | 27.35                  | 20.85                          |

## 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<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                                                   | 5116.00        | 53.3 PK                       | 74.0              | -20.7          | 1.24 H                   | 271                        | 45.07                  | 8.23                           |
| 2                                                   | 5116.00        | 42.0 AV                       | 54.0              | -12.0          | 1.24 H                   | 271                        | 33.77                  | 8.23                           |
| 3                                                   | *5200.00       | 107.6 PK                      |                   |                | 1.24 H                   | 291                        | 99.36                  | 8.24                           |
| 4                                                   | *5200.00       | 98.3 AV                       |                   |                | 1.24 H                   | 291                        | 90.06                  | 8.24                           |
| 5                                                   | 5360.00        | 53.2 PK                       | 74.0              | -20.8          | 1.24 H                   | 271                        | 44.37                  | 8.83                           |
| 6                                                   | 5360.00        | 43.7 AV                       | 54.0              | -10.3          | 1.24 H                   | 271                        | 34.87                  | 8.83                           |
| 7                                                   | #10400.00      | 54.8 PK                       | 74.0              | -19.2          | 1.21 H                   | 235                        | 39.57                  | 15.23                          |
| 8                                                   | #10400.00      | 42.7 AV                       | 54.0              | -11.3          | 1.21 H                   | 235                        | 27.47                  | 15.23                          |
| 9                                                   | 15600.00       | 58.5 PK                       | 74.0              | -15.5          | 1.05 H                   | 140                        | 37.62                  | 20.88                          |
| 10                                                  | 15600.00       | 46.6 AV                       | 54.0              | -7.4           | 1.05 H                   | 140                        | 25.72                  | 20.88                          |
| 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                                                   | 5116.00        | 52.0 PK                       | 74.0              | -22.0          | 1.03 V                   | 239                        | 43.77                  | 8.23                           |
| 2                                                   | 5116.00        | 41.0 AV                       | 54.0              | -13.0          | 1.03 V                   | 239                        | 32.77                  | 8.23                           |
| 3                                                   | *5200.00       | 103.6 PK                      |                   |                | 1.03 V                   | 239                        | 95.36                  | 8.24                           |
| 4                                                   | *5200.00       | 94.3 AV                       |                   |                | 1.03 V                   | 239                        | 86.06                  | 8.24                           |
| 5                                                   | 5360.00        | 52.0 PK                       | 74.0              | -22.0          | 1.03 V                   | 239                        | 43.17                  | 8.83                           |
| 6                                                   | 5360.00        | 42.8 AV                       | 54.0              | -11.2          | 1.03 V                   | 239                        | 33.97                  | 8.83                           |
| 7                                                   | #10400.00      | 58.6 PK                       | 74.0              | -15.4          | 1.46 V                   | 280                        | 43.37                  | 15.23                          |
| 8                                                   | #10400.00      | 47.3 AV                       | 54.0              | -6.7           | 1.46 V                   | 280                        | 32.07                  | 15.23                          |
| 9                                                   | 15600.00       | 59.3 PK                       | 74.0              | -14.7          | 1.11 V                   | 68                         | 38.42                  | 20.88                          |
| 10                                                  | 15600.00       | 47.9 AV                       | 54.0              | -6.1           | 1.11 V                   | 68                         | 27.02                  | 20.88                          |

#### 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<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        | 51.3 PK                       | 74.0              | -22.7          | 1.22 H                   | 281                        | 43.07                  | 8.23                           |
| 2                                                   | 5150.00        | 40.1 AV                       | 54.0              | -13.9          | 1.22 H                   | 281                        | 31.87                  | 8.23                           |
| 3                                                   | *5240.00       | 109.7 PK                      |                   |                | 1.22 H                   | 281                        | 101.30                 | 8.40                           |
| 4                                                   | *5240.00       | 100.5 AV                      |                   |                | 1.22 H                   | 281                        | 92.10                  | 8.40                           |
| 5                                                   | 5400.00        | 52.5 PK                       | 74.0              | -21.5          | 1.22 H                   | 281                        | 43.53                  | 8.97                           |
| 6                                                   | 5400.00        | 43.3 AV                       | 54.0              | -10.7          | 1.22 H                   | 281                        | 34.33                  | 8.97                           |
| 7                                                   | #10480.00      | 54.7 PK                       | 74.0              | -19.3          | 1.26 H                   | 215                        | 39.49                  | 15.21                          |
| 8                                                   | #10480.00      | 42.7 AV                       | 54.0              | -11.3          | 1.26 H                   | 215                        | 27.49                  | 15.21                          |
| 9                                                   | 15720.00       | 58.9 PK                       | 74.0              | -15.1          | 1.15 H                   | 149                        | 38.03                  | 20.87                          |
| 10                                                  | 15720.00       | 46.9 AV                       | 54.0              | -7.1           | 1.15 H                   | 149                        | 26.03                  | 20.87                          |
| 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        | 50.3 PK                       | 74.0              | -23.7          | 1.08 V                   | 232                        | 42.07                  | 8.23                           |
| 2                                                   | 5150.00        | 39.4 AV                       | 54.0              | -14.6          | 1.08 V                   | 232                        | 31.17                  | 8.23                           |
| 3                                                   | *5240.00       | 106.1 PK                      |                   |                | 1.08 V                   | 232                        | 97.70                  | 8.40                           |
| 4                                                   | *5240.00       | 96.6 AV                       |                   |                | 1.08 V                   | 232                        | 88.20                  | 8.40                           |
| 5                                                   | 5400.00        | 50.8 PK                       | 74.0              | -23.2          | 1.08 V                   | 232                        | 41.83                  | 8.97                           |
| 6                                                   | 5400.00        | 41.9 AV                       | 54.0              | -12.1          | 1.08 V                   | 232                        | 32.93                  | 8.97                           |
| 7                                                   | #10480.00      | 59.2 PK                       | 74.0              | -14.8          | 1.45 V                   | 270                        | 43.99                  | 15.21                          |
| 8                                                   | #10480.00      | 47.5 AV                       | 54.0              | -6.5           | 1.45 V                   | 270                        | 32.29                  | 15.21                          |
| 9                                                   | 15720.00       | 59.9 PK                       | 74.0              | -14.1          | 1.11 V                   | 52                         | 39.03                  | 20.87                          |
| 10                                                  | 15720.00       | 48.8 AV                       | 54.0              | -5.2           | 1.11 V                   | 52                         | 27.93                  | 20.87                          |

#### 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<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                                                   | *5260.00       | 116.7 PK                      |                   |                | 1.29 H                   | 84                         | 108.24                 | 8.46                           |
| 2                                                   | *5260.00       | 107.0 AV                      |                   |                | 1.29 H                   | 84                         | 98.54                  | 8.46                           |
| 3                                                   | #10520.00      | 54.2 PK                       | 74.0              | -19.8          | 1.24 H                   | 222                        | 38.94                  | 15.26                          |
| 4                                                   | #10520.00      | 42.2 AV                       | 54.0              | -11.8          | 1.24 H                   | 222                        | 26.94                  | 15.26                          |
| 5                                                   | 15780.00       | 58.9 PK                       | 74.0              | -15.1          | 1.12 H                   | 130                        | 38.15                  | 20.75                          |
| 6                                                   | 15780.00       | 47.0 AV                       | 54.0              | -7.0           | 1.12 H                   | 130                        | 26.25                  | 20.75                          |
| 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                                                   | *5260.00       | 112.6 PK                      |                   |                | 1.07 V                   | 236                        | 104.14                 | 8.46                           |
| 2                                                   | *5260.00       | 103.0 AV                      |                   |                | 1.07 V                   | 236                        | 94.54                  | 8.46                           |
| 3                                                   | #10520.00      | 58.5 PK                       | 74.0              | -15.5          | 1.38 V                   | 291                        | 43.24                  | 15.26                          |
| 4                                                   | #10520.00      | 47.1 AV                       | 54.0              | -6.9           | 1.38 V                   | 291                        | 31.84                  | 15.26                          |
| 5                                                   | 15780.00       | 59.5 PK                       | 74.0              | -14.5          | 1.21 V                   | 76                         | 38.75                  | 20.75                          |
| 6                                                   | 15780.00       | 48.2 AV                       | 54.0              | -5.8           | 1.21 V                   | 76                         | 27.45                  | 20.75                          |

#### 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<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                                                   | *5300.00       | 116.5 PK                      |                   |                | 1.27 H                   | 83                         | 107.88                 | 8.62                           |
| 2                                                   | *5300.00       | 107.5 AV                      |                   |                | 1.27 H                   | 83                         | 98.88                  | 8.62                           |
| 3                                                   | 5380.00        | 60.5 PK                       | 74.0              | -13.5          | 1.24 H                   | 87                         | 51.60                  | 8.90                           |
| 4                                                   | 5380.00        | 49.6 AV                       | 54.0              | -4.4           | 1.24 H                   | 87                         | 40.70                  | 8.90                           |
| 5                                                   | 5460.00        | 55.9 PK                       | 74.0              | -18.1          | 1.23 H                   | 86                         | 46.71                  | 9.19                           |
| 6                                                   | 5460.00        | 46.7 AV                       | 54.0              | -7.3           | 1.23 H                   | 86                         | 37.51                  | 9.19                           |
| 7                                                   | 10600.00       | 54.8 PK                       | 74.0              | -19.2          | 1.23 H                   | 230                        | 39.27                  | 15.53                          |
| 8                                                   | 10600.00       | 42.7 AV                       | 54.0              | -11.3          | 1.23 H                   | 230                        | 27.17                  | 15.53                          |
| 9                                                   | 15900.00       | 58.9 PK                       | 74.0              | -15.1          | 1.04 H                   | 145                        | 37.60                  | 21.30                          |
| 10                                                  | 15900.00       | 47.2 AV                       | 54.0              | -6.8           | 1.04 H                   | 145                        | 25.90                  | 21.30                          |
| 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       | 112.9 PK                      |                   |                | 1.02 V                   | 234                        | 104.28                 | 8.62                           |
| 2                                                   | *5300.00       | 103.9 AV                      |                   |                | 1.02 V                   | 234                        | 95.28                  | 8.62                           |
| 3                                                   | 5380.00        | 56.1 PK                       | 74.0              | -17.9          | 1.02 V                   | 234                        | 47.20                  | 8.90                           |
| 4                                                   | 5380.00        | 45.3 AV                       | 54.0              | -8.7           | 1.02 V                   | 234                        | 36.40                  | 8.90                           |
| 5                                                   | 5460.00        | 51.9 PK                       | 74.0              | -22.1          | 1.02 V                   | 234                        | 42.71                  | 9.19                           |
| 6                                                   | 5460.00        | 43.0 AV                       | 54.0              | -11.0          | 1.02 V                   | 234                        | 33.81                  | 9.19                           |
| 7                                                   | 10600.00       | 59.2 PK                       | 74.0              | -14.8          | 1.48 V                   | 297                        | 43.67                  | 15.53                          |
| 8                                                   | 10600.00       | 47.6 AV                       | 54.0              | -6.4           | 1.48 V                   | 297                        | 32.07                  | 15.53                          |
| 9                                                   | 15900.00       | 60.1 PK                       | 74.0              | -13.9          | 1.15 V                   | 56                         | 38.80                  | 21.30                          |
| 10                                                  | 15900.00       | 48.6 AV                       | 54.0              | -5.4           | 1.15 V                   | 56                         | 27.30                  | 21.30                          |

**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.

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| 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       | 114.1 PK                      |                   |                | 1.44 H                   | 98                         | 105.41                 | 8.69                           |
| 2                                                   | *5320.00       | 104.9 AV                      |                   |                | 1.44 H                   | 98                         | 96.21                  | 8.69                           |
| 3                                                   | 5400.00        | 72.5 PK                       | 74.0              | -1.5           | 1.44 H                   | 98                         | 63.53                  | 8.97                           |
| 4                                                   | 5400.00        | 52.9 AV                       | 54.0              | -1.1           | 1.44 H                   | 98                         | 43.93                  | 8.97                           |
| 5                                                   | 10640.00       | 54.9 PK                       | 74.0              | -19.1          | 1.21 H                   | 209                        | 39.36                  | 15.54                          |
| 6                                                   | 10640.00       | 42.4 AV                       | 54.0              | -11.6          | 1.21 H                   | 209                        | 26.86                  | 15.54                          |
| 7                                                   | 15960.00       | 58.5 PK                       | 74.0              | -15.5          | 1.16 H                   | 125                        | 37.68                  | 20.82                          |
| 8                                                   | 15960.00       | 46.8 AV                       | 54.0              | -7.2           | 1.16 H                   | 125                        | 25.98                  | 20.82                          |
| 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       | 109.9 PK                      |                   |                | 1.03 V                   | 245                        | 101.21                 | 8.69                           |
| 2                                                   | *5320.00       | 100.6 AV                      |                   |                | 1.03 V                   | 245                        | 91.91                  | 8.69                           |
| 3                                                   | 5350.00        | 67.4 PK                       | 74.0              | -6.6           | 1.03 V                   | 245                        | 58.60                  | 8.80                           |
| 4                                                   | 5350.00        | 48.0 AV                       | 54.0              | -6.0           | 1.03 V                   | 245                        | 39.20                  | 8.80                           |
| 5                                                   | 10640.00       | 59.1 PK                       | 74.0              | -14.9          | 1.48 V                   | 297                        | 43.56                  | 15.54                          |
| 6                                                   | 10640.00       | 47.5 AV                       | 54.0              | -6.5           | 1.48 V                   | 297                        | 31.96                  | 15.54                          |
| 7                                                   | 15960.00       | 60.0 PK                       | 74.0              | -14.0          | 1.19 V                   | 48                         | 39.18                  | 20.82                          |
| 8                                                   | 15960.00       | 48.4 AV                       | 54.0              | -5.6           | 1.19 V                   | 48                         | 27.58                  | 20.82                          |

**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.

|                 |                |                      |              |
|-----------------|----------------|----------------------|--------------|
| CHANNEL         | TX Channel 100 | 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                                                   | #5470.00       | 68.5 PK                       | 74.0              | -5.5           | 1.06 H                   | 100                        | 59.28                  | 9.22                           |
| 2                                                   | #5470.00       | 52.6 AV                       | 54.0              | -1.4           | 1.06 H                   | 100                        | 43.38                  | 9.22                           |
| 3                                                   | *5500.00       | 116.2 PK                      |                   |                | 1.23 H                   | 101                        | 106.87                 | 9.33                           |
| 4                                                   | *5500.00       | 107.4 AV                      |                   |                | 1.23 H                   | 101                        | 98.07                  | 9.33                           |
| 5                                                   | 11000.00       | 54.7 PK                       | 74.0              | -19.3          | 1.28 H                   | 229                        | 37.75                  | 16.95                          |
| 6                                                   | 11000.00       | 42.4 AV                       | 54.0              | -11.6          | 1.28 H                   | 229                        | 25.45                  | 16.95                          |
| 7                                                   | #16500.00      | 58.7 PK                       | 74.0              | -15.3          | 1.16 H                   | 152                        | 35.66                  | 23.04                          |
| 8                                                   | #16500.00      | 46.8 AV                       | 54.0              | -7.2           | 1.16 H                   | 152                        | 23.76                  | 23.04                          |
| 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                                                   | #5470.00       | 64.0 PK                       | 74.0              | -10.0          | 1.13 V                   | 205                        | 54.78                  | 9.22                           |
| 2                                                   | #5470.00       | 48.1 AV                       | 54.0              | -5.9           | 1.13 V                   | 205                        | 38.88                  | 9.22                           |
| 3                                                   | *5500.00       | 112.6 PK                      |                   |                | 1.13 V                   | 205                        | 103.27                 | 9.33                           |
| 4                                                   | *5500.00       | 103.5 AV                      |                   |                | 1.13 V                   | 205                        | 94.17                  | 9.33                           |
| 5                                                   | 11000.00       | 58.8 PK                       | 74.0              | -15.2          | 1.42 V                   | 290                        | 41.85                  | 16.95                          |
| 6                                                   | 11000.00       | 47.4 AV                       | 54.0              | -6.6           | 1.42 V                   | 290                        | 30.45                  | 16.95                          |
| 7                                                   | #16500.00      | 59.9 PK                       | 74.0              | -14.1          | 1.20 V                   | 56                         | 36.86                  | 23.04                          |
| 8                                                   | #16500.00      | 48.4 AV                       | 54.0              | -5.6           | 1.20 V                   | 56                         | 25.36                  | 23.04                          |

**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<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                                                   | *5580.00       | 117.8 PK                      |                   |                | 1.44 H                   | 83                         | 108.33                 | 9.47                           |
| 2                                                   | *5580.00       | 108.7 AV                      |                   |                | 1.44 H                   | 83                         | 99.23                  | 9.47                           |
| 3                                                   | 11160.00       | 54.6 PK                       | 74.0              | -19.4          | 1.21 H                   | 204                        | 38.39                  | 16.21                          |
| 4                                                   | 11160.00       | 42.4 AV                       | 54.0              | -11.6          | 1.21 H                   | 204                        | 26.19                  | 16.21                          |
| 5                                                   | #16740.00      | 59.2 PK                       | 74.0              | -14.8          | 1.05 H                   | 148                        | 35.52                  | 23.68                          |
| 6                                                   | #16740.00      | 47.3 AV                       | 54.0              | -6.7           | 1.05 H                   | 148                        | 23.62                  | 23.68                          |
| 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       | 113.4 PK                      |                   |                | 1.04 V                   | 245                        | 103.93                 | 9.47                           |
| 2                                                   | *5580.00       | 104.5 AV                      |                   |                | 1.04 V                   | 245                        | 95.03                  | 9.47                           |
| 3                                                   | 11160.00       | 58.7 PK                       | 74.0              | -15.3          | 1.48 V                   | 276                        | 42.49                  | 16.21                          |
| 4                                                   | 11160.00       | 47.9 AV                       | 54.0              | -6.1           | 1.48 V                   | 276                        | 31.69                  | 16.21                          |
| 5                                                   | #16740.00      | 59.0 PK                       | 74.0              | -15.0          | 1.13 V                   | 60                         | 35.32                  | 23.68                          |
| 6                                                   | #16740.00      | 48.2 AV                       | 54.0              | -5.8           | 1.13 V                   | 60                         | 24.52                  | 23.68                          |

**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 132 | 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                                                   | *5660.00       | 118.2 PK                      |                   |                | 1.47 H                   | 79                         | 108.47                 | 9.73                           |
| 2                                                   | *5660.00       | 108.9 AV                      |                   |                | 1.47 H                   | 79                         | 99.17                  | 9.73                           |
| 3                                                   | 11320.00       | 54.5 PK                       | 74.0              | -19.5          | 1.25 H                   | 225                        | 37.58                  | 16.92                          |
| 4                                                   | 11320.00       | 42.6 AV                       | 54.0              | -11.4          | 1.25 H                   | 225                        | 25.68                  | 16.92                          |
| 5                                                   | #16980.00      | 59.6 PK                       | 74.0              | -14.4          | 1.14 H                   | 149                        | 35.40                  | 24.20                          |
| 6                                                   | #16980.00      | 47.5 AV                       | 54.0              | -6.5           | 1.14 H                   | 149                        | 23.30                  | 24.20                          |
| 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                                                   | *5660.00       | 113.9 PK                      |                   |                | 1.06 V                   | 218                        | 104.17                 | 9.73                           |
| 2                                                   | *5660.00       | 104.7 AV                      |                   |                | 1.06 V                   | 218                        | 94.97                  | 9.73                           |
| 3                                                   | 11320.00       | 59.0 PK                       | 74.0              | -15.0          | 1.38 V                   | 280                        | 42.08                  | 16.92                          |
| 4                                                   | 11320.00       | 47.7 AV                       | 54.0              | -6.3           | 1.38 V                   | 280                        | 30.78                  | 16.92                          |
| 5                                                   | #16980.00      | 59.7 PK                       | 74.0              | -14.3          | 1.08 V                   | 51                         | 35.50                  | 24.20                          |
| 6                                                   | #16980.00      | 48.6 AV                       | 54.0              | -5.4           | 1.08 V                   | 51                         | 24.40                  | 24.20                          |

**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       | 116.4 PK                      |                   |                | 1.41 H                   | 85                         | 106.52                 | 9.88                           |
| 2                                                   | *5700.00       | 106.1 AV                      |                   |                | 1.41 H                   | 85                         | 96.22                  | 9.88                           |
| 3                                                   | #5725.00       | 66.2 PK                       | 74.0              | -7.8           | 1.41 H                   | 84                         | 56.29                  | 9.91                           |
| 4                                                   | #5725.00       | 52.7 AV                       | 54.0              | -1.3           | 1.41 H                   | 84                         | 42.79                  | 9.91                           |
| 5                                                   | 11400.00       | 54.4 PK                       | 74.0              | -19.6          | 1.28 H                   | 212                        | 37.65                  | 16.75                          |
| 6                                                   | 11400.00       | 42.5 AV                       | 54.0              | -11.5          | 1.28 H                   | 212                        | 25.75                  | 16.75                          |
| 7                                                   | #17100.00      | 59.0 PK                       | 74.0              | -15.0          | 1.07 H                   | 147                        | 33.94                  | 25.06                          |
| 8                                                   | #17100.00      | 47.5 AV                       | 54.0              | -6.5           | 1.07 H                   | 147                        | 22.44                  | 25.06                          |
| 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       | 112.2 PK                      |                   |                | 1.05 V                   | 234                        | 102.32                 | 9.88                           |
| 2                                                   | *5700.00       | 101.9 AV                      |                   |                | 1.05 V                   | 234                        | 92.02                  | 9.88                           |
| 3                                                   | #5725.00       | 61.8 PK                       | 74.0              | -12.2          | 1.05 V                   | 234                        | 51.89                  | 9.91                           |
| 4                                                   | #5725.00       | 48.6 AV                       | 54.0              | -5.4           | 1.05 V                   | 234                        | 38.69                  | 9.91                           |
| 5                                                   | 11400.00       | 58.9 PK                       | 74.0              | -15.1          | 1.43 V                   | 281                        | 42.15                  | 16.75                          |
| 6                                                   | 11400.00       | 47.4 AV                       | 54.0              | -6.6           | 1.43 V                   | 281                        | 30.65                  | 16.75                          |
| 7                                                   | #17100.00      | 59.6 PK                       | 74.0              | -14.4          | 1.16 V                   | 61                         | 34.54                  | 25.06                          |
| 8                                                   | #17100.00      | 48.3 AV                       | 54.0              | -5.7           | 1.16 V                   | 61                         | 23.24                  | 25.06                          |

**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(VHT40), 2Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 38 | 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        | 64.5 PK                       | 74.0              | -9.5           | 1.51 H                   | 88                         | 56.27                  | 8.23                           |
| 2                                                   | 5150.00        | 52.3 AV                       | 54.0              | -1.7           | 1.51 H                   | 88                         | 44.07                  | 8.23                           |
| 3                                                   | *5190.00       | 105.8 PK                      |                   |                | 1.51 H                   | 88                         | 97.56                  | 8.24                           |
| 4                                                   | *5190.00       | 97.2 AV                       |                   |                | 1.51 H                   | 88                         | 88.96                  | 8.24                           |
| 5                                                   | #10380.00      | 54.2 PK                       | 74.0              | -19.8          | 1.18 H                   | 215                        | 39.14                  | 15.06                          |
| 6                                                   | #10380.00      | 42.0 AV                       | 54.0              | -12.0          | 1.18 H                   | 215                        | 26.94                  | 15.06                          |
| 7                                                   | 15570.00       | 59.4 PK                       | 74.0              | -14.6          | 1.10 H                   | 156                        | 38.54                  | 20.86                          |
| 8                                                   | 15570.00       | 47.5 AV                       | 54.0              | -6.5           | 1.10 H                   | 156                        | 26.64                  | 20.86                          |
| 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        | 59.5 PK                       | 74.0              | -14.5          | 1.04 V                   | 233                        | 51.27                  | 8.23                           |
| 2                                                   | 5150.00        | 47.6 AV                       | 54.0              | -6.4           | 1.04 V                   | 233                        | 39.37                  | 8.23                           |
| 3                                                   | *5190.00       | 101.0 PK                      |                   |                | 1.04 V                   | 233                        | 92.76                  | 8.24                           |
| 4                                                   | *5190.00       | 92.8 AV                       |                   |                | 1.04 V                   | 233                        | 84.56                  | 8.24                           |
| 5                                                   | #10380.00      | 59.4 PK                       | 74.0              | -14.6          | 1.46 V                   | 289                        | 44.34                  | 15.06                          |
| 6                                                   | #10380.00      | 47.8 AV                       | 54.0              | -6.2           | 1.46 V                   | 289                        | 32.74                  | 15.06                          |
| 7                                                   | 15570.00       | 59.5 PK                       | 74.0              | -14.5          | 1.16 V                   | 69                         | 38.64                  | 20.86                          |
| 8                                                   | 15570.00       | 48.0 AV                       | 54.0              | -6.0           | 1.16 V                   | 69                         | 27.14                  | 20.86                          |

## 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<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        | 52.4 PK                       | 74.0              | -21.6          | 1.49 H                   | 84                         | 44.17                  | 8.23                           |
| 2                                                   | 5150.00        | 40.3 AV                       | 54.0              | -13.7          | 1.49 H                   | 84                         | 32.07                  | 8.23                           |
| 3                                                   | *5230.00       | 107.1 PK                      |                   |                | 1.49 H                   | 84                         | 98.74                  | 8.36                           |
| 4                                                   | *5230.00       | 98.2 AV                       |                   |                | 1.49 H                   | 84                         | 89.84                  | 8.36                           |
| 5                                                   | 5350.00        | 52.8 PK                       | 74.0              | -21.2          | 1.49 H                   | 84                         | 44.00                  | 8.80                           |
| 6                                                   | 5350.00        | 41.8 AV                       | 54.0              | -12.2          | 1.49 H                   | 84                         | 33.00                  | 8.80                           |
| 7                                                   | #10460.00      | 55.0 PK                       | 74.0              | -19.0          | 1.26 H                   | 217                        | 39.79                  | 15.21                          |
| 8                                                   | #10460.00      | 42.8 AV                       | 54.0              | -11.2          | 1.26 H                   | 217                        | 27.59                  | 15.21                          |
| 9                                                   | 15690.00       | 58.6 PK                       | 74.0              | -15.4          | 1.16 H                   | 138                        | 37.69                  | 20.91                          |
| 10                                                  | 15690.00       | 46.7 AV                       | 54.0              | -7.3           | 1.16 H                   | 138                        | 25.79                  | 20.91                          |
| 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        | 51.9 PK                       | 74.0              | -22.1          | 1.03 V                   | 239                        | 43.67                  | 8.23                           |
| 2                                                   | 5150.00        | 39.9 AV                       | 54.0              | -14.1          | 1.03 V                   | 239                        | 31.67                  | 8.23                           |
| 3                                                   | *5230.00       | 102.9 PK                      |                   |                | 1.03 V                   | 239                        | 94.54                  | 8.36                           |
| 4                                                   | *5230.00       | 93.9 AV                       |                   |                | 1.03 V                   | 239                        | 85.54                  | 8.36                           |
| 5                                                   | 5350.00        | 52.8 PK                       | 74.0              | -21.2          | 1.03 V                   | 239                        | 44.00                  | 8.80                           |
| 6                                                   | 5350.00        | 41.8 AV                       | 54.0              | -12.2          | 1.03 V                   | 239                        | 33.00                  | 8.80                           |
| 7                                                   | #10460.00      | 58.9 PK                       | 74.0              | -15.1          | 1.45 V                   | 299                        | 43.69                  | 15.21                          |
| 8                                                   | #10460.00      | 47.4 AV                       | 54.0              | -6.6           | 1.45 V                   | 299                        | 32.19                  | 15.21                          |
| 9                                                   | 15690.00       | 60.2 PK                       | 74.0              | -13.8          | 1.05 V                   | 53                         | 39.29                  | 20.91                          |
| 10                                                  | 15690.00       | 48.4 AV                       | 54.0              | -5.6           | 1.05 V                   | 53                         | 27.49                  | 20.91                          |

#### 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                                                   | *5270.00       | 114.2 PK                      |                   |                | 1.49 H                   | 101                        | 72.84                  | 41.36                          |
| 2                                                   | *5270.00       | 104.7 AV                      |                   |                | 1.49 H                   | 101                        | 63.34                  | 41.36                          |
| 3                                                   | 5350.00        | 70.0 PK                       | 74.0              | -4.0           | 1.44 H                   | 96                         | 28.39                  | 41.61                          |
| 4                                                   | 5350.00        | 52.4 AV                       | 54.0              | -1.6           | 1.44 H                   | 96                         | 10.79                  | 41.61                          |
| 5                                                   | #10540.00      | 54.7 PK                       | 74.0              | -19.3          | 1.29 H                   | 227                        | 6.57                   | 48.13                          |
| 6                                                   | #10540.00      | 42.5 AV                       | 54.0              | -11.5          | 1.29 H                   | 227                        | -5.63                  | 48.13                          |
| 7                                                   | 15810.00       | 58.8 PK                       | 74.0              | -15.2          | 1.07 H                   | 148                        | 5.79                   | 53.01                          |
| 8                                                   | 15810.00       | 47.1 AV                       | 54.0              | -6.9           | 1.07 H                   | 148                        | -5.91                  | 53.01                          |
| 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                                                   | *5270.00       | 110.5 PK                      |                   |                | 1.02 V                   | 230                        | 69.14                  | 41.36                          |
| 2                                                   | *5270.00       | 101.0 AV                      |                   |                | 1.02 V                   | 230                        | 59.64                  | 41.36                          |
| 3                                                   | 5350.00        | 66.0 PK                       | 74.0              | -8.0           | 1.02 V                   | 230                        | 24.39                  | 41.61                          |
| 4                                                   | 5350.00        | 48.4 AV                       | 54.0              | -5.6           | 1.02 V                   | 230                        | 6.79                   | 41.61                          |
| 5                                                   | #10540.00      | 59.6 PK                       | 74.0              | -14.4          | 1.47 V                   | 302                        | 11.47                  | 48.13                          |
| 6                                                   | #10540.00      | 48.5 AV                       | 54.0              | -5.5           | 1.47 V                   | 302                        | 0.37                   | 48.13                          |
| 7                                                   | 15810.00       | 60.2 PK                       | 74.0              | -13.8          | 1.10 V                   | 49                         | 7.19                   | 53.01                          |
| 8                                                   | 15810.00       | 48.9 AV                       | 54.0              | -5.1           | 1.10 V                   | 49                         | -4.11                  | 53.01                          |

**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<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                                                   | *5310.00       | 106.1 PK                      |                   |                | 1.46 H                   | 84                         | 64.62                  | 41.48                          |
| 2                                                   | *5310.00       | 96.8 AV                       |                   |                | 1.46 H                   | 84                         | 55.32                  | 41.48                          |
| 3                                                   | 5350.00        | 67.5 PK                       | 74.0              | -6.5           | 1.46 H                   | 84                         | 25.89                  | 41.61                          |
| 4                                                   | 5350.00        | 52.3 AV                       | 54.0              | -1.7           | 1.46 H                   | 84                         | 10.69                  | 41.61                          |
| 5                                                   | 10620.00       | 54.3 PK                       | 74.0              | -19.7          | 1.28 H                   | 215                        | 6.13                   | 48.17                          |
| 6                                                   | 10620.00       | 42.4 AV                       | 54.0              | -11.6          | 1.28 H                   | 215                        | -5.77                  | 48.17                          |
| 7                                                   | 15930.00       | 59.2 PK                       | 74.0              | -14.8          | 1.08 H                   | 133                        | 5.86                   | 53.34                          |
| 8                                                   | 15930.00       | 47.2 AV                       | 54.0              | -6.8           | 1.08 H                   | 133                        | -6.14                  | 53.34                          |
| 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       | 101.4 PK                      |                   |                | 1.01 V                   | 234                        | 59.92                  | 41.48                          |
| 2                                                   | *5310.00       | 92.1 AV                       |                   |                | 1.01 V                   | 234                        | 50.62                  | 41.48                          |
| 3                                                   | 5350.00        | 63.3 PK                       | 74.0              | -10.7          | 1.01 V                   | 234                        | 21.69                  | 41.61                          |
| 4                                                   | 5350.00        | 48.7 AV                       | 54.0              | -5.3           | 1.01 V                   | 234                        | 7.09                   | 41.61                          |
| 5                                                   | 10620.00       | 59.1 PK                       | 74.0              | -14.9          | 1.42 V                   | 299                        | 10.93                  | 48.17                          |
| 6                                                   | 10620.00       | 48.1 AV                       | 54.0              | -5.9           | 1.42 V                   | 299                        | -0.07                  | 48.17                          |
| 7                                                   | 15930.00       | 59.2 PK                       | 74.0              | -14.8          | 1.02 V                   | 49                         | 5.86                   | 53.34                          |
| 8                                                   | 15930.00       | 48.2 AV                       | 54.0              | -5.8           | 1.02 V                   | 49                         | -5.14                  | 53.34                          |

**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.

|                 |                |                      |              |
|-----------------|----------------|----------------------|--------------|
| CHANNEL         | TX Channel 102 | 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                                                   | #5470.00       | 63.6 PK                       | 74.0              | -10.4          | 1.40 H                   | 83                         | 54.38                  | 9.22                           |
| 2                                                   | #5470.00       | 52.8 AV                       | 54.0              | -1.2           | 1.40 H                   | 83                         | 43.58                  | 9.22                           |
| 3                                                   | *5510.00       | 107.6 PK                      |                   |                | 1.47 H                   | 84                         | 98.25                  | 9.35                           |
| 4                                                   | *5510.00       | 100.6 AV                      |                   |                | 1.47 H                   | 84                         | 91.25                  | 9.35                           |
| 5                                                   | 11020.00       | 54.6 PK                       | 74.0              | -19.4          | 1.22 H                   | 223                        | 37.79                  | 16.81                          |
| 6                                                   | 11020.00       | 42.3 AV                       | 54.0              | -11.7          | 1.22 H                   | 223                        | 25.49                  | 16.81                          |
| 7                                                   | #16530.00      | 58.9 PK                       | 74.0              | -15.1          | 1.04 H                   | 150                        | 35.74                  | 23.16                          |
| 8                                                   | #16530.00      | 47.1 AV                       | 54.0              | -6.9           | 1.04 H                   | 150                        | 23.94                  | 23.16                          |
| 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                                                   | #5470.00       | 58.8 PK                       | 74.0              | -15.2          | 1.09 V                   | 244                        | 49.58                  | 9.22                           |
| 2                                                   | #5470.00       | 47.8 AV                       | 54.0              | -6.2           | 1.09 V                   | 244                        | 38.58                  | 9.22                           |
| 3                                                   | *5510.00       | 104.0 PK                      |                   |                | 1.09 V                   | 244                        | 94.65                  | 9.35                           |
| 4                                                   | *5510.00       | 96.9 AV                       |                   |                | 1.09 V                   | 244                        | 87.55                  | 9.35                           |
| 5                                                   | 11020.00       | 59.1 PK                       | 74.0              | -14.9          | 1.44 V                   | 306                        | 42.29                  | 16.81                          |
| 6                                                   | 11020.00       | 48.2 AV                       | 54.0              | -5.8           | 1.44 V                   | 306                        | 31.39                  | 16.81                          |
| 7                                                   | #16530.00      | 59.7 PK                       | 74.0              | -14.3          | 1.06 V                   | 65                         | 36.54                  | 23.16                          |
| 8                                                   | #16530.00      | 48.6 AV                       | 54.0              | -5.4           | 1.06 V                   | 65                         | 25.44                  | 23.16                          |

**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<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                                                   | #5470.00       | 65.1 PK                       | 74.0              | -8.9           | 1.45 H                   | 87                         | 55.88                  | 9.22                           |
| 2                                                   | #5470.00       | 50.6 AV                       | 54.0              | -3.4           | 1.45 H                   | 87                         | 41.38                  | 9.22                           |
| 3                                                   | *5550.00       | 115.2 PK                      |                   |                | 1.46 H                   | 84                         | 105.78                 | 9.42                           |
| 4                                                   | *5550.00       | 105.6 AV                      |                   |                | 1.46 H                   | 84                         | 96.18                  | 9.42                           |
| 5                                                   | 11100.00       | 55.4 PK                       | 74.0              | -18.6          | 1.32 H                   | 236                        | 39.08                  | 16.32                          |
| 6                                                   | 11100.00       | 43.0 AV                       | 54.0              | -11.0          | 1.32 H                   | 236                        | 26.68                  | 16.32                          |
| 7                                                   | #16650.00      | 58.7 PK                       | 74.0              | -15.3          | 1.07 H                   | 132                        | 35.25                  | 23.45                          |
| 8                                                   | #16650.00      | 47.0 AV                       | 54.0              | -7.0           | 1.07 H                   | 132                        | 23.55                  | 23.45                          |
| 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                                                   | #5470.00       | 60.9 PK                       | 74.0              | -13.1          | 1.08 V                   | 236                        | 51.68                  | 9.22                           |
| 2                                                   | #5470.00       | 46.4 AV                       | 54.0              | -7.6           | 1.08 V                   | 236                        | 37.18                  | 9.22                           |
| 3                                                   | *5550.00       | 110.9 PK                      |                   |                | 1.08 V                   | 236                        | 101.48                 | 9.42                           |
| 4                                                   | *5550.00       | 101.2 AV                      |                   |                | 1.08 V                   | 236                        | 91.78                  | 9.42                           |
| 5                                                   | 11100.00       | 58.9 PK                       | 74.0              | -15.1          | 1.44 V                   | 291                        | 42.58                  | 16.32                          |
| 6                                                   | 11100.00       | 47.7 AV                       | 54.0              | -6.3           | 1.44 V                   | 291                        | 31.38                  | 16.32                          |
| 7                                                   | #16650.00      | 59.8 PK                       | 74.0              | -14.2          | 1.11 V                   | 66                         | 36.35                  | 23.45                          |
| 8                                                   | #16650.00      | 48.7 AV                       | 54.0              | -5.3           | 1.11 V                   | 66                         | 25.25                  | 23.45                          |

**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<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                                                   | *5670.00       | 112.3 PK                      |                   |                | 1.67 H                   | 277                        | 102.53                 | 9.77                           |
| 2                                                   | *5670.00       | 103.1 AV                      |                   |                | 1.67 H                   | 277                        | 93.33                  | 9.77                           |
| 3                                                   | #5725.00       | 67.1 PK                       | 74.0              | -6.9           | 1.67 H                   | 277                        | 57.19                  | 9.91                           |
| 4                                                   | #5725.00       | 52.2 AV                       | 54.0              | -1.8           | 1.67 H                   | 277                        | 42.29                  | 9.91                           |
| 5                                                   | 11340.00       | 54.4 PK                       | 74.0              | -19.6          | 1.19 H                   | 227                        | 37.52                  | 16.88                          |
| 6                                                   | 11340.00       | 42.1 AV                       | 54.0              | -11.9          | 1.19 H                   | 227                        | 25.22                  | 16.88                          |
| 7                                                   | #17010.00      | 58.9 PK                       | 74.0              | -15.1          | 1.08 H                   | 135                        | 34.65                  | 24.25                          |
| 8                                                   | #17010.00      | 47.2 AV                       | 54.0              | -6.8           | 1.08 H                   | 135                        | 22.95                  | 24.25                          |
| 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       | 108.3 PK                      |                   |                | 1.08 V                   | 235                        | 98.53                  | 9.77                           |
| 2                                                   | *5670.00       | 99.1 AV                       |                   |                | 1.08 V                   | 235                        | 89.33                  | 9.77                           |
| 3                                                   | #5725.00       | 62.9 PK                       | 74.0              | -11.1          | 1.08 V                   | 235                        | 52.99                  | 9.91                           |
| 4                                                   | #5725.00       | 47.9 AV                       | 54.0              | -6.1           | 1.08 V                   | 235                        | 37.99                  | 9.91                           |
| 5                                                   | 11340.00       | 59.5 PK                       | 74.0              | -14.5          | 1.46 V                   | 295                        | 42.62                  | 16.88                          |
| 6                                                   | 11340.00       | 48.1 AV                       | 54.0              | -5.9           | 1.46 V                   | 295                        | 31.22                  | 16.88                          |
| 7                                                   | #17010.00      | 60.2 PK                       | 74.0              | -13.8          | 1.16 V                   | 60                         | 35.95                  | 24.25                          |
| 8                                                   | #17010.00      | 49.2 AV                       | 54.0              | -4.8           | 1.16 V                   | 60                         | 24.95                  | 24.25                          |

**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), 2Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| 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        | 65.9 PK                       | 74.0              | -8.1           | 1.23 H                   | 277                        | 57.67                  | 8.23                           |
| 2                                                   | 5150.00        | 52.1 AV                       | 54.0              | -1.9           | 1.23 H                   | 277                        | 43.87                  | 8.23                           |
| 3                                                   | *5210.00       | 104.6 PK                      |                   |                | 1.23 H                   | 277                        | 96.33                  | 8.27                           |
| 4                                                   | *5210.00       | 95.0 AV                       |                   |                | 1.23 H                   | 277                        | 86.73                  | 8.27                           |
| 5                                                   | 5350.00        | 53.2 PK                       | 74.0              | -20.8          | 1.23 H                   | 277                        | 44.40                  | 8.80                           |
| 6                                                   | 5350.00        | 41.6 AV                       | 54.0              | -12.4          | 1.23 H                   | 277                        | 32.80                  | 8.80                           |
| 7                                                   | #10420.00      | 55.4 PK                       | 74.0              | -18.6          | 1.23 H                   | 208                        | 40.19                  | 15.21                          |
| 8                                                   | #10420.00      | 42.9 AV                       | 54.0              | -11.1          | 1.23 H                   | 208                        | 27.69                  | 15.21                          |
| 9                                                   | 15630.00       | 58.6 PK                       | 74.0              | -15.4          | 1.10 H                   | 151                        | 37.71                  | 20.89                          |
| 10                                                  | 15630.00       | 46.7 AV                       | 54.0              | -7.3           | 1.10 H                   | 151                        | 25.81                  | 20.89                          |
| 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        | 61.7 PK                       | 74.0              | -12.3          | 1.07 V                   | 235                        | 53.47                  | 8.23                           |
| 2                                                   | 5150.00        | 48.0 AV                       | 54.0              | -6.0           | 1.07 V                   | 235                        | 39.77                  | 8.23                           |
| 3                                                   | *5210.00       | 99.8 PK                       |                   |                | 1.07 V                   | 235                        | 91.53                  | 8.27                           |
| 4                                                   | *5210.00       | 90.2 AV                       |                   |                | 1.07 V                   | 235                        | 81.93                  | 8.27                           |
| 5                                                   | 5350.00        | 51.8 PK                       | 74.0              | -22.2          | 1.07 V                   | 235                        | 43.00                  | 8.80                           |
| 6                                                   | 5350.00        | 40.2 AV                       | 54.0              | -13.8          | 1.07 V                   | 235                        | 31.40                  | 8.80                           |
| 7                                                   | #10420.00      | 54.6 PK                       | 74.0              | -19.4          | 1.31 V                   | 65                         | 39.39                  | 15.21                          |
| 8                                                   | #10420.00      | 43.6 AV                       | 54.0              | -10.4          | 1.31 V                   | 65                         | 28.39                  | 15.21                          |
| 9                                                   | 15630.00       | 59.2 PK                       | 74.0              | -14.8          | 1.14 V                   | 60                         | 38.31                  | 20.89                          |
| 10                                                  | 15630.00       | 48.3 AV                       | 54.0              | -5.7           | 1.14 V                   | 60                         | 27.41                  | 20.89                          |

## 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        | 51.9 PK                       | 74.0              | -22.1          | 1.19 H                   | 278                        | 43.67                  | 8.23                           |
| 2                                                   | 5150.00        | 40.2 AV                       | 54.0              | -13.8          | 1.19 H                   | 278                        | 31.97                  | 8.23                           |
| 3                                                   | *5290.00       | 102.6 PK                      |                   |                | 1.19 H                   | 278                        | 94.01                  | 8.59                           |
| 4                                                   | *5290.00       | 93.1 AV                       |                   |                | 1.19 H                   | 278                        | 84.51                  | 8.59                           |
| 5                                                   | 5350.00        | 63.7 PK                       | 74.0              | -10.3          | 1.19 H                   | 278                        | 54.90                  | 8.80                           |
| 6                                                   | 5350.00        | 52.4 AV                       | 54.0              | -1.6           | 1.19 H                   | 278                        | 43.60                  | 8.80                           |
| 7                                                   | #10580.00      | 55.2 PK                       | 74.0              | -18.8          | 1.20 H                   | 231                        | 39.74                  | 15.46                          |
| 8                                                   | #10580.00      | 42.8 AV                       | 54.0              | -11.2          | 1.20 H                   | 231                        | 27.34                  | 15.46                          |
| 9                                                   | 15870.00       | 59.4 PK                       | 74.0              | -14.6          | 1.08 H                   | 156                        | 38.29                  | 21.11                          |
| 10                                                  | 15870.00       | 47.3 AV                       | 54.0              | -6.7           | 1.08 H                   | 156                        | 26.19                  | 21.11                          |
| 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        | 48.3 PK                       | 74.0              | -25.7          | 1.10 V                   | 232                        | 40.07                  | 8.23                           |
| 2                                                   | 5150.00        | 36.4 AV                       | 54.0              | -17.6          | 1.10 V                   | 232                        | 28.17                  | 8.23                           |
| 3                                                   | *5290.00       | 98.3 PK                       |                   |                | 1.10 V                   | 232                        | 89.71                  | 8.59                           |
| 4                                                   | *5290.00       | 88.8 AV                       |                   |                | 1.10 V                   | 232                        | 80.21                  | 8.59                           |
| 5                                                   | 5350.00        | 59.5 PK                       | 74.0              | -14.5          | 1.10 V                   | 232                        | 50.70                  | 8.80                           |
| 6                                                   | 5350.00        | 48.2 AV                       | 54.0              | -5.8           | 1.10 V                   | 232                        | 39.40                  | 8.80                           |
| 7                                                   | #10580.00      | 54.9 PK                       | 74.0              | -19.1          | 1.34 V                   | 52                         | 39.44                  | 15.46                          |
| 8                                                   | #10580.00      | 43.9 AV                       | 54.0              | -10.1          | 1.34 V                   | 52                         | 28.44                  | 15.46                          |
| 9                                                   | 15870.00       | 59.3 PK                       | 74.0              | -14.7          | 1.11 V                   | 55                         | 38.19                  | 21.11                          |
| 10                                                  | 15870.00       | 48.2 AV                       | 54.0              | -5.8           | 1.11 V                   | 55                         | 27.09                  | 21.11                          |

**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                                                   | #5470.00       | 64.3 PK                       | 74.0              | -9.7           | 1.21 H                   | 300                        | 55.08                  | 9.22                           |
| 2                                                   | #5470.00       | 52.5 AV                       | 54.0              | -1.5           | 1.21 H                   | 300                        | 43.28                  | 9.22                           |
| 3                                                   | *5530.00       | 106.4 PK                      |                   |                | 1.21 H                   | 300                        | 97.01                  | 9.39                           |
| 4                                                   | *5530.00       | 96.7 AV                       |                   |                | 1.21 H                   | 300                        | 87.31                  | 9.39                           |
| 5                                                   | #5725.00       | 56.7 PK                       | 74.0              | -17.3          | 1.21 H                   | 300                        | 46.79                  | 9.91                           |
| 6                                                   | #5725.00       | 43.9 AV                       | 54.0              | -10.1          | 1.21 H                   | 300                        | 33.99                  | 9.91                           |
| 7                                                   | 11060.00       | 54.4 PK                       | 74.0              | -19.6          | 1.24 H                   | 234                        | 37.83                  | 16.57                          |
| 8                                                   | 11060.00       | 42.1 AV                       | 54.0              | -11.9          | 1.24 H                   | 234                        | 25.53                  | 16.57                          |
| 9                                                   | #16590.00      | 58.6 PK                       | 74.0              | -15.4          | 1.11 H                   | 124                        | 35.19                  | 23.41                          |
| 10                                                  | #16590.00      | 46.6 AV                       | 54.0              | -7.4           | 1.11 H                   | 124                        | 23.19                  | 23.41                          |
| 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                                                   | #5470.00       | 59.8 PK                       | 74.0              | -14.2          | 1.07 V                   | 224                        | 50.58                  | 9.22                           |
| 2                                                   | #5470.00       | 47.8 AV                       | 54.0              | -6.2           | 1.07 V                   | 224                        | 38.58                  | 9.22                           |
| 3                                                   | *5530.00       | 102.2 PK                      |                   |                | 1.07 V                   | 224                        | 92.81                  | 9.39                           |
| 4                                                   | *5530.00       | 92.3 AV                       |                   |                | 1.07 V                   | 224                        | 82.91                  | 9.39                           |
| 5                                                   | #5725.00       | 52.4 PK                       | 74.0              | -21.6          | 1.07 V                   | 224                        | 42.49                  | 9.91                           |
| 6                                                   | #5725.00       | 39.6 AV                       | 54.0              | -14.4          | 1.07 V                   | 224                        | 29.69                  | 9.91                           |
| 7                                                   | 11060.00       | 54.9 PK                       | 74.0              | -19.1          | 1.34 V                   | 69                         | 38.33                  | 16.57                          |
| 8                                                   | 11060.00       | 43.7 AV                       | 54.0              | -10.3          | 1.34 V                   | 69                         | 27.13                  | 16.57                          |
| 9                                                   | #16590.00      | 59.5 PK                       | 74.0              | -14.5          | 1.11 V                   | 46                         | 36.09                  | 23.41                          |
| 10                                                  | #16590.00      | 48.6 AV                       | 54.0              | -5.4           | 1.11 V                   | 46                         | 25.19                  | 23.41                          |

**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.

## 4.2.9 TEST RESULTS (MODE 2)

### BELOW 1GHz WORST-CASE DATA

#### 802.11ac(VHT40), 2Tx

|                 |                |                      |                 |
|-----------------|----------------|----------------------|-----------------|
| CHANNEL         | TX Channel 110 | DETECTOR<br>FUNCTION | Quasi-Peak (QP) |
| FREQUENCY RANGE | Below 1GHz     |                      |                 |

| 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                                                   | 137.13         | 26.0 QP                       | 43.5              | -17.5          | 1.00 H                   | 151                        | 39.89                  | -13.92                         |
| 2                                                   | 166.33         | 33.8 QP                       | 43.5              | -9.7           | 1.00 H                   | 236                        | 47.76                  | -13.93                         |
| 3                                                   | 188.48         | 30.4 QP                       | 43.5              | -13.1          | 1.50 H                   | 124                        | 46.08                  | -15.68                         |
| 4                                                   | 254.16         | 32.4 QP                       | 46.0              | -13.7          | 1.50 H                   | 224                        | 46.67                  | -14.32                         |
| 5                                                   | 330.48         | 28.1 QP                       | 46.0              | -17.9          | 2.00 H                   | 320                        | 39.60                  | -11.46                         |
| 6                                                   | 400.01         | 29.4 QP                       | 46.0              | -16.6          | 1.50 H                   | 180                        | 39.27                  | -9.91                          |
| 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                                                   | 117.84         | 34.7 QP                       | 43.5              | -8.8           | 1.00 V                   | 345                        | 50.03                  | -15.32                         |
| 2                                                   | 141.52         | 33.1 QP                       | 43.5              | -10.4          | 1.00 V                   | 234                        | 46.70                  | -13.60                         |
| 3                                                   | 245.93         | 31.1 QP                       | 46.0              | -15.0          | 2.00 V                   | 351                        | 45.66                  | -14.61                         |
| 4                                                   | 257.85         | 31.6 QP                       | 46.0              | -14.4          | 2.00 V                   | 21                         | 45.78                  | -14.17                         |
| 5                                                   | 400.01         | 26.3 QP                       | 46.0              | -19.7          | 1.50 V                   | 135                        | 36.18                  | -9.91                          |
| 6                                                   | 560.00         | 28.2 QP                       | 46.0              | -17.8          | 1.00 V                   | 193                        | 34.54                  | -6.33                          |

#### 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

# ABOVE 1GHz DATA

## 802.11a, 1Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 36 | 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        | 57.8 PK                       | 74.0              | -16.2          | 1.09 H                   | 244                        | 49.57                  | 8.23                           |
| 2                                                   | 5150.00        | 40.8 AV                       | 54.0              | -13.2          | 1.09 H                   | 244                        | 32.57                  | 8.23                           |
| 3                                                   | *5180.00       | 103.0 PK                      |                   |                | 1.09 H                   | 244                        | 94.77                  | 8.23                           |
| 4                                                   | *5180.00       | 93.6 AV                       |                   |                | 1.09 H                   | 244                        | 85.37                  | 8.23                           |
| 5                                                   | #10360.00      | 54.0 PK                       | 74.0              | -20.0          | 1.23 H                   | 225                        | 39.12                  | 14.88                          |
| 6                                                   | #10360.00      | 41.7 AV                       | 54.0              | -12.3          | 1.23 H                   | 225                        | 26.82                  | 14.88                          |
| 7                                                   | 15540.00       | 58.5 PK                       | 74.0              | -15.5          | 1.08 H                   | 134                        | 37.65                  | 20.85                          |
| 8                                                   | 15540.00       | 46.8 AV                       | 54.0              | -7.2           | 1.08 H                   | 134                        | 25.95                  | 20.85                          |
| 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        | 65.7 PK                       | 74.0              | -8.3           | 1.03 V                   | 276                        | 57.47                  | 8.23                           |
| 2                                                   | 5150.00        | 49.0 AV                       | 54.0              | -5.0           | 1.03 V                   | 276                        | 40.77                  | 8.23                           |
| 3                                                   | *5180.00       | 112.7 PK                      |                   |                | 1.03 V                   | 276                        | 104.47                 | 8.23                           |
| 4                                                   | *5180.00       | 103.2 AV                      |                   |                | 1.03 V                   | 276                        | 94.97                  | 8.23                           |
| 5                                                   | #10360.00      | 58.1 PK                       | 74.0              | -15.9          | 1.40 V                   | 316                        | 43.22                  | 14.88                          |
| 6                                                   | #10360.00      | 47.3 AV                       | 54.0              | -6.7           | 1.40 V                   | 316                        | 32.42                  | 14.88                          |
| 7                                                   | 15540.00       | 58.6 PK                       | 74.0              | -15.4          | 1.17 V                   | 43                         | 37.75                  | 20.85                          |
| 8                                                   | 15540.00       | 48.4 AV                       | 54.0              | -5.6           | 1.17 V                   | 43                         | 27.55                  | 20.85                          |

### 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<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                                                   | *5200.00       | 102.8 PK                      |                   |                | 1.09 H                   | 242                        | 94.56                  | 8.24                           |
| 2                                                   | *5200.00       | 93.5 AV                       |                   |                | 1.09 H                   | 242                        | 85.26                  | 8.24                           |
| 3                                                   | #10400.00      | 55.3 PK                       | 74.0              | -18.7          | 1.31 H                   | 223                        | 40.07                  | 15.23                          |
| 4                                                   | #10400.00      | 42.9 AV                       | 54.0              | -11.1          | 1.31 H                   | 223                        | 27.67                  | 15.23                          |
| 5                                                   | 15600.00       | 57.9 PK                       | 74.0              | -16.1          | 1.03 H                   | 107                        | 37.02                  | 20.88                          |
| 6                                                   | 15600.00       | 46.5 AV                       | 54.0              | -7.5           | 1.03 H                   | 107                        | 25.62                  | 20.88                          |
| 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       | 113.2 PK                      |                   |                | 1.04 V                   | 275                        | 104.96                 | 8.24                           |
| 2                                                   | *5200.00       | 103.8 AV                      |                   |                | 1.04 V                   | 275                        | 95.56                  | 8.24                           |
| 3                                                   | #10400.00      | 58.9 PK                       | 74.0              | -15.1          | 1.42 V                   | 302                        | 43.67                  | 15.23                          |
| 4                                                   | #10400.00      | 48.1 AV                       | 54.0              | -5.9           | 1.42 V                   | 302                        | 32.87                  | 15.23                          |
| 5                                                   | 15600.00       | 59.9 PK                       | 74.0              | -14.1          | 1.11 V                   | 30                         | 39.02                  | 20.88                          |
| 6                                                   | 15600.00       | 49.1 AV                       | 54.0              | -4.9           | 1.11 V                   | 30                         | 28.22                  | 20.88                          |

**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<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                                                   | *5240.00       | 104.4 PK                      |                   |                | 1.12 H                   | 242                        | 96.00                  | 8.40                           |
| 2                                                   | *5240.00       | 94.4 AV                       |                   |                | 1.12 H                   | 242                        | 86.00                  | 8.40                           |
| 3                                                   | #10480.00      | 53.8 PK                       | 74.0              | -20.2          | 1.14 H                   | 238                        | 38.59                  | 15.21                          |
| 4                                                   | #10480.00      | 41.6 AV                       | 54.0              | -12.4          | 1.14 H                   | 238                        | 26.39                  | 15.21                          |
| 5                                                   | 15720.00       | 58.4 PK                       | 74.0              | -15.6          | 1.02 H                   | 139                        | 37.53                  | 20.87                          |
| 6                                                   | 15720.00       | 46.9 AV                       | 54.0              | -7.1           | 1.02 H                   | 139                        | 26.03                  | 20.87                          |
| 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       | 114.3 PK                      |                   |                | 1.03 V                   | 262                        | 105.90                 | 8.40                           |
| 2                                                   | *5240.00       | 104.0 AV                      |                   |                | 1.03 V                   | 262                        | 95.60                  | 8.40                           |
| 3                                                   | #10480.00      | 58.6 PK                       | 74.0              | -15.4          | 1.45 V                   | 323                        | 43.39                  | 15.21                          |
| 4                                                   | #10480.00      | 47.9 AV                       | 54.0              | -6.1           | 1.45 V                   | 323                        | 32.69                  | 15.21                          |
| 5                                                   | 15720.00       | 58.9 PK                       | 74.0              | -15.1          | 1.13 V                   | 39                         | 38.03                  | 20.87                          |
| 6                                                   | 15720.00       | 48.4 AV                       | 54.0              | -5.6           | 1.13 V                   | 39                         | 27.53                  | 20.87                          |

**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<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                                                   | *5260.00       | 107.4 PK                      |                   |                | 1.12 H                   | 256                        | 98.94                  | 8.46                           |
| 2                                                   | *5260.00       | 98.0 AV                       |                   |                | 1.12 H                   | 256                        | 89.54                  | 8.46                           |
| 3                                                   | #10520.00      | 53.7 PK                       | 74.0              | -20.3          | 1.29 H                   | 204                        | 38.44                  | 15.26                          |
| 4                                                   | #10520.00      | 41.4 AV                       | 54.0              | -12.6          | 1.29 H                   | 204                        | 26.14                  | 15.26                          |
| 5                                                   | 15780.00       | 58.1 PK                       | 74.0              | -15.9          | 1.07 H                   | 142                        | 37.35                  | 20.75                          |
| 6                                                   | 15780.00       | 46.6 AV                       | 54.0              | -7.4           | 1.07 H                   | 142                        | 25.85                  | 20.75                          |
| 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                                                   | *5260.00       | 117.7 PK                      |                   |                | 1.02 V                   | 264                        | 109.24                 | 8.46                           |
| 2                                                   | *5260.00       | 108.1 AV                      |                   |                | 1.02 V                   | 264                        | 99.64                  | 8.46                           |
| 3                                                   | #10520.00      | 57.6 PK                       | 74.0              | -16.4          | 1.46 V                   | 320                        | 42.34                  | 15.26                          |
| 4                                                   | #10520.00      | 46.8 AV                       | 54.0              | -7.2           | 1.46 V                   | 320                        | 31.54                  | 15.26                          |
| 5                                                   | 15780.00       | 59.4 PK                       | 74.0              | -14.6          | 1.10 V                   | 43                         | 38.65                  | 20.75                          |
| 6                                                   | 15780.00       | 48.6 AV                       | 54.0              | -5.4           | 1.10 V                   | 43                         | 27.85                  | 20.75                          |

#### 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<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                                                   | *5300.00       | 107.1 PK                      |                   |                | 1.11 H                   | 244                        | 98.48                  | 8.62                           |
| 2                                                   | *5300.00       | 97.4 AV                       |                   |                | 1.11 H                   | 244                        | 88.78                  | 8.62                           |
| 3                                                   | 10600.00       | 53.5 PK                       | 74.0              | -20.5          | 1.21 H                   | 217                        | 37.97                  | 15.53                          |
| 4                                                   | 10600.00       | 41.8 AV                       | 54.0              | -12.2          | 1.21 H                   | 217                        | 26.27                  | 15.53                          |
| 5                                                   | 15900.00       | 58.1 PK                       | 74.0              | -15.9          | 1.12 H                   | 121                        | 36.80                  | 21.30                          |
| 6                                                   | 15900.00       | 46.4 AV                       | 54.0              | -7.6           | 1.12 H                   | 121                        | 25.10                  | 21.30                          |
| 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       | 116.6 PK                      |                   |                | 1.00 V                   | 263                        | 107.98                 | 8.62                           |
| 2                                                   | *5300.00       | 107.0 AV                      |                   |                | 1.00 V                   | 263                        | 98.38                  | 8.62                           |
| 3                                                   | 10600.00       | 58.8 PK                       | 74.0              | -15.2          | 1.38 V                   | 298                        | 43.27                  | 15.53                          |
| 4                                                   | 10600.00       | 47.7 AV                       | 54.0              | -6.3           | 1.38 V                   | 298                        | 32.17                  | 15.53                          |
| 5                                                   | 15900.00       | 60.0 PK                       | 74.0              | -14.0          | 1.03 V                   | 29                         | 38.70                  | 21.30                          |
| 6                                                   | 15900.00       | 49.2 AV                       | 54.0              | -4.8           | 1.03 V                   | 29                         | 27.90                  | 21.30                          |

**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.

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| 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       | 102.3 PK                      |                   |                | 1.05 H                   | 232                        | 93.61                  | 8.69                           |
| 2                                                   | *5320.00       | 93.7 AV                       |                   |                | 1.05 H                   | 232                        | 85.01                  | 8.69                           |
| 3                                                   | 5350.00        | 62.0 PK                       | 74.0              | -12.0          | 1.05 H                   | 232                        | 53.20                  | 8.80                           |
| 4                                                   | 5350.00        | 42.5 AV                       | 54.0              | -11.5          | 1.05 H                   | 232                        | 33.70                  | 8.80                           |
| 5                                                   | 10640.00       | 54.9 PK                       | 74.0              | -19.1          | 1.31 H                   | 233                        | 39.36                  | 15.54                          |
| 6                                                   | 10640.00       | 42.7 AV                       | 54.0              | -11.3          | 1.31 H                   | 233                        | 27.16                  | 15.54                          |
| 7                                                   | 15960.00       | 58.7 PK                       | 74.0              | -15.3          | 1.03 H                   | 129                        | 37.88                  | 20.82                          |
| 8                                                   | 15960.00       | 47.0 AV                       | 54.0              | -7.0           | 1.03 H                   | 129                        | 26.18                  | 20.82                          |
| 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       | 112.2 PK                      |                   |                | 1.08 V                   | 269                        | 103.51                 | 8.69                           |
| 2                                                   | *5320.00       | 103.4 AV                      |                   |                | 1.08 V                   | 269                        | 94.71                  | 8.69                           |
| 3                                                   | 5350.00        | 71.7 PK                       | 74.0              | -2.3           | 1.08 V                   | 269                        | 62.90                  | 8.80                           |
| 4                                                   | 5350.00        | 52.5 AV                       | 54.0              | -1.5           | 1.08 V                   | 269                        | 43.70                  | 8.80                           |
| 5                                                   | 10640.00       | 58.6 PK                       | 74.0              | -15.4          | 1.42 V                   | 311                        | 43.06                  | 15.54                          |
| 6                                                   | 10640.00       | 47.7 AV                       | 54.0              | -6.3           | 1.42 V                   | 311                        | 32.16                  | 15.54                          |
| 7                                                   | 15960.00       | 59.6 PK                       | 74.0              | -14.4          | 1.13 V                   | 38                         | 38.78                  | 20.82                          |
| 8                                                   | 15960.00       | 48.8 AV                       | 54.0              | -5.2           | 1.13 V                   | 38                         | 27.98                  | 20.82                          |

**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.

|                 |                |                      |              |
|-----------------|----------------|----------------------|--------------|
| CHANNEL         | TX Channel 100 | 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                                                   | #5470.00       | 60.8 PK                       | 74.0              | -13.2          | 1.07 H                   | 258                        | 51.58                  | 9.22                           |
| 2                                                   | #5470.00       | 41.7 AV                       | 54.0              | -12.3          | 1.07 H                   | 258                        | 32.48                  | 9.22                           |
| 3                                                   | *5500.00       | 103.3 PK                      |                   |                | 1.07 H                   | 258                        | 93.97                  | 9.33                           |
| 4                                                   | *5500.00       | 94.2 AV                       |                   |                | 1.07 H                   | 258                        | 84.87                  | 9.33                           |
| 5                                                   | 11000.00       | 52.8 PK                       | 74.0              | -21.2          | 1.14 H                   | 227                        | 35.85                  | 16.95                          |
| 6                                                   | 11000.00       | 40.9 AV                       | 54.0              | -13.1          | 1.14 H                   | 227                        | 23.95                  | 16.95                          |
| 7                                                   | #16500.00      | 57.4 PK                       | 74.0              | -16.6          | 1.03 H                   | 129                        | 34.36                  | 23.04                          |
| 8                                                   | #16500.00      | 45.9 AV                       | 54.0              | -8.1           | 1.03 H                   | 129                        | 22.86                  | 23.04                          |
| 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                                                   | #5470.00       | 70.1 PK                       | 74.0              | -3.9           | 1.05 V                   | 254                        | 60.88                  | 9.22                           |
| 2                                                   | #5470.00       | 51.2 AV                       | 54.0              | -2.8           | 1.05 V                   | 254                        | 41.98                  | 9.22                           |
| 3                                                   | *5500.00       | 113.1 PK                      |                   |                | 1.05 V                   | 254                        | 103.77                 | 9.33                           |
| 4                                                   | *5500.00       | 104.1 AV                      |                   |                | 1.05 V                   | 254                        | 94.77                  | 9.33                           |
| 5                                                   | 11000.00       | 58.1 PK                       | 74.0              | -15.9          | 1.33 V                   | 314                        | 41.15                  | 16.95                          |
| 6                                                   | 11000.00       | 47.0 AV                       | 54.0              | -7.0           | 1.33 V                   | 314                        | 30.05                  | 16.95                          |
| 7                                                   | #16500.00      | 59.0 PK                       | 74.0              | -15.0          | 1.05 V                   | 22                         | 35.96                  | 23.04                          |
| 8                                                   | #16500.00      | 48.5 AV                       | 54.0              | -5.5           | 1.05 V                   | 22                         | 25.46                  | 23.04                          |

**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<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                                                   | *5580.00       | 106.4 PK                      |                   |                | 1.11 H                   | 246                        | 96.93                  | 9.47                           |
| 2                                                   | *5580.00       | 96.7 AV                       |                   |                | 1.11 H                   | 246                        | 87.23                  | 9.47                           |
| 3                                                   | 11160.00       | 53.4 PK                       | 74.0              | -20.6          | 1.18 H                   | 196                        | 37.19                  | 16.21                          |
| 4                                                   | 11160.00       | 41.4 AV                       | 54.0              | -12.6          | 1.18 H                   | 196                        | 25.19                  | 16.21                          |
| 5                                                   | #16740.00      | 58.3 PK                       | 74.0              | -15.7          | 1.03 H                   | 126                        | 34.62                  | 23.68                          |
| 6                                                   | #16740.00      | 46.7 AV                       | 54.0              | -7.3           | 1.03 H                   | 126                        | 23.02                  | 23.68                          |
| 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       | 116.5 PK                      |                   |                | 1.06 V                   | 280                        | 107.03                 | 9.47                           |
| 2                                                   | *5580.00       | 106.9 AV                      |                   |                | 1.06 V                   | 280                        | 97.43                  | 9.47                           |
| 3                                                   | 11160.00       | 58.0 PK                       | 74.0              | -16.0          | 1.41 V                   | 281                        | 41.79                  | 16.21                          |
| 4                                                   | 11160.00       | 47.7 AV                       | 54.0              | -6.3           | 1.41 V                   | 281                        | 31.49                  | 16.21                          |
| 5                                                   | #16740.00      | 58.4 PK                       | 74.0              | -15.6          | 1.12 V                   | 47                         | 34.72                  | 23.68                          |
| 6                                                   | #16740.00      | 48.0 AV                       | 54.0              | -6.0           | 1.12 V                   | 47                         | 24.32                  | 23.68                          |

**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 132 | 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                                                   | *5660.00       | 103.7 PK                      |                   |                | 1.14 H                   | 241                        | 93.97                  | 9.73                           |
| 2                                                   | *5660.00       | 93.4 AV                       |                   |                | 1.14 H                   | 241                        | 83.67                  | 9.73                           |
| 3                                                   | 11320.00       | 54.4 PK                       | 74.0              | -19.6          | 1.23 H                   | 214                        | 37.48                  | 16.92                          |
| 4                                                   | 11320.00       | 42.0 AV                       | 54.0              | -12.0          | 1.23 H                   | 214                        | 25.08                  | 16.92                          |
| 5                                                   | #16980.00      | 58.2 PK                       | 74.0              | -15.8          | 1.12 H                   | 141                        | 34.00                  | 24.20                          |
| 6                                                   | #16980.00      | 46.4 AV                       | 54.0              | -7.6           | 1.12 H                   | 141                        | 22.20                  | 24.20                          |
| 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                                                   | *5660.00       | 115.5 PK                      |                   |                | 1.03 V                   | 281                        | 105.77                 | 9.73                           |
| 2                                                   | *5660.00       | 105.7 AV                      |                   |                | 1.03 V                   | 281                        | 95.97                  | 9.73                           |
| 3                                                   | 11320.00       | 58.1 PK                       | 74.0              | -15.9          | 1.37 V                   | 289                        | 41.18                  | 16.92                          |
| 4                                                   | 11320.00       | 47.3 AV                       | 54.0              | -6.7           | 1.37 V                   | 289                        | 30.38                  | 16.92                          |
| 5                                                   | #16980.00      | 59.2 PK                       | 74.0              | -14.8          | 1.17 V                   | 8                          | 35.00                  | 24.20                          |
| 6                                                   | #16980.00      | 48.7 AV                       | 54.0              | -5.3           | 1.17 V                   | 8                          | 24.50                  | 24.20                          |

**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       | 100.3 PK                      |                   |                | 1.11 H                   | 240                        | 90.42                  | 9.88                           |
| 2                                                   | *5700.00       | 90.3 AV                       |                   |                | 1.11 H                   | 240                        | 80.42                  | 9.88                           |
| 3                                                   | #5725.00       | 57.4 PK                       | 74.0              | -16.6          | 1.11 H                   | 240                        | 47.49                  | 9.91                           |
| 4                                                   | #5725.00       | 45.1 AV                       | 54.0              | -8.9           | 1.11 H                   | 240                        | 35.19                  | 9.91                           |
| 5                                                   | 11400.00       | 54.0 PK                       | 74.0              | -20.0          | 1.26 H                   | 206                        | 37.25                  | 16.75                          |
| 6                                                   | 11400.00       | 41.8 AV                       | 54.0              | -12.2          | 1.26 H                   | 206                        | 25.05                  | 16.75                          |
| 7                                                   | #17100.00      | 57.9 PK                       | 74.0              | -16.1          | 1.11 H                   | 132                        | 32.84                  | 25.06                          |
| 8                                                   | #17100.00      | 46.5 AV                       | 54.0              | -7.5           | 1.11 H                   | 132                        | 21.44                  | 25.06                          |
| 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       | 110.1 PK                      |                   |                | 1.06 V                   | 323                        | 100.22                 | 9.88                           |
| 2                                                   | *5700.00       | 101.2 AV                      |                   |                | 1.06 V                   | 323                        | 91.32                  | 9.88                           |
| 3                                                   | #5725.00       | 67.2 PK                       | 74.0              | -6.8           | 1.06 V                   | 323                        | 57.29                  | 9.91                           |
| 4                                                   | #5725.00       | 50.7 AV                       | 54.0              | -3.3           | 1.06 V                   | 323                        | 40.79                  | 9.91                           |
| 5                                                   | 11400.00       | 59.0 PK                       | 74.0              | -15.0          | 1.40 V                   | 303                        | 42.25                  | 16.75                          |
| 6                                                   | 11400.00       | 48.1 AV                       | 54.0              | -5.9           | 1.40 V                   | 303                        | 31.35                  | 16.75                          |
| 7                                                   | #17100.00      | 59.6 PK                       | 74.0              | -14.4          | 1.09 V                   | 26                         | 34.54                  | 25.06                          |
| 8                                                   | #17100.00      | 48.9 AV                       | 54.0              | -5.1           | 1.09 V                   | 26                         | 23.84                  | 25.06                          |

**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(VHT20), 1Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 36 | 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        | 67.9 PK                       | 74.0              | -6.1           | 1.12 H                   | 95                         | 59.67                  | 8.23                           |
| 2                                                   | 5150.00        | 48.4 AV                       | 54.0              | -5.6           | 1.12 H                   | 95                         | 40.17                  | 8.23                           |
| 3                                                   | *5180.00       | 101.6 PK                      |                   |                | 1.12 H                   | 95                         | 93.37                  | 8.23                           |
| 4                                                   | *5180.00       | 91.3 AV                       |                   |                | 1.12 H                   | 95                         | 83.07                  | 8.23                           |
| 5                                                   | #10360.00      | 53.6 PK                       | 74.0              | -20.4          | 1.16 H                   | 229                        | 38.72                  | 14.88                          |
| 6                                                   | #10360.00      | 42.0 AV                       | 54.0              | -12.0          | 1.16 H                   | 229                        | 27.12                  | 14.88                          |
| 7                                                   | 15540.00       | 58.1 PK                       | 74.0              | -15.9          | 1.13 H                   | 129                        | 37.25                  | 20.85                          |
| 8                                                   | 15540.00       | 46.6 AV                       | 54.0              | -7.4           | 1.13 H                   | 129                        | 25.75                  | 20.85                          |
| 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        | 71.8 PK                       | 74.0              | -2.2           | 1.03 V                   | 70                         | 63.57                  | 8.23                           |
| 2                                                   | 5150.00        | 52.6 AV                       | 54.0              | -1.4           | 1.03 V                   | 70                         | 44.37                  | 8.23                           |
| 3                                                   | *5180.00       | 115.0 PK                      |                   |                | 1.04 V                   | 75                         | 106.77                 | 8.23                           |
| 4                                                   | *5180.00       | 104.9 AV                      |                   |                | 1.04 V                   | 75                         | 96.67                  | 8.23                           |
| 5                                                   | #10360.00      | 57.6 PK                       | 74.0              | -16.4          | 1.45 V                   | 322                        | 42.72                  | 14.88                          |
| 6                                                   | #10360.00      | 47.1 AV                       | 54.0              | -6.9           | 1.45 V                   | 322                        | 32.22                  | 14.88                          |
| 7                                                   | 15540.00       | 59.6 PK                       | 74.0              | -14.4          | 1.06 V                   | 35                         | 38.75                  | 20.85                          |
| 8                                                   | 15540.00       | 49.1 AV                       | 54.0              | -4.9           | 1.06 V                   | 35                         | 28.25                  | 20.85                          |

## 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<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                                                   | 5127.00        | 68.3 PK                       | 74.0              | -5.7           | 1.08 H                   | 85                         | 60.08                  | 8.22                           |
| 2                                                   | 5127.00        | 47.3 AV                       | 54.0              | -6.7           | 1.08 H                   | 85                         | 39.08                  | 8.22                           |
| 3                                                   | *5200.00       | 104.6 PK                      |                   |                | 1.08 H                   | 85                         | 96.36                  | 8.24                           |
| 4                                                   | *5200.00       | 95.2 AV                       |                   |                | 1.08 H                   | 85                         | 86.96                  | 8.24                           |
| 5                                                   | #10400.00      | 52.7 PK                       | 74.0              | -21.3          | 1.19 H                   | 224                        | 37.47                  | 15.23                          |
| 6                                                   | #10400.00      | 41.0 AV                       | 54.0              | -13.0          | 1.19 H                   | 224                        | 25.77                  | 15.23                          |
| 7                                                   | 15600.00       | 58.1 PK                       | 74.0              | -15.9          | 1.18 H                   | 134                        | 37.22                  | 20.88                          |
| 8                                                   | 15600.00       | 46.7 AV                       | 54.0              | -7.3           | 1.18 H                   | 134                        | 25.82                  | 20.88                          |
| 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        | 72.5 PK                       | 74.0              | -1.5           | 1.04 V                   | 75                         | 64.27                  | 8.23                           |
| 2                                                   | 5150.00        | 51.5 AV                       | 54.0              | -2.5           | 1.04 V                   | 75                         | 43.27                  | 8.23                           |
| 3                                                   | *5200.00       | 118.7 PK                      |                   |                | 1.04 V                   | 75                         | 110.46                 | 8.24                           |
| 4                                                   | *5200.00       | 109.1 AV                      |                   |                | 1.04 V                   | 75                         | 100.86                 | 8.24                           |
| 5                                                   | #10400.00      | 58.0 PK                       | 74.0              | -16.0          | 1.43 V                   | 307                        | 42.77                  | 15.23                          |
| 6                                                   | #10400.00      | 46.9 AV                       | 54.0              | -7.1           | 1.43 V                   | 307                        | 31.67                  | 15.23                          |
| 7                                                   | 15600.00       | 59.8 PK                       | 74.0              | -14.2          | 1.10 V                   | 15                         | 38.92                  | 20.88                          |
| 8                                                   | 15600.00       | 48.9 AV                       | 54.0              | -5.1           | 1.10 V                   | 15                         | 28.02                  | 20.88                          |

**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<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        | 64.9 PK                       | 74.0              | -9.1           | 1.17 H                   | 108                        | 56.67                  | 8.23                           |
| 2                                                   | 5150.00        | 44.5 AV                       | 54.0              | -9.5           | 1.17 H                   | 108                        | 36.27                  | 8.23                           |
| 3                                                   | *5240.00       | 107.6 PK                      |                   |                | 1.17 H                   | 108                        | 99.20                  | 8.40                           |
| 4                                                   | *5240.00       | 97.1 AV                       |                   |                | 1.17 H                   | 108                        | 88.70                  | 8.40                           |
| 5                                                   | #10480.00      | 52.8 PK                       | 74.0              | -21.2          | 1.17 H                   | 209                        | 37.59                  | 15.21                          |
| 6                                                   | #10480.00      | 40.8 AV                       | 54.0              | -13.2          | 1.17 H                   | 209                        | 25.59                  | 15.21                          |
| 7                                                   | 15720.00       | 57.8 PK                       | 74.0              | -16.2          | 1.18 H                   | 122                        | 36.93                  | 20.87                          |
| 8                                                   | 15720.00       | 46.4 AV                       | 54.0              | -7.6           | 1.18 H                   | 122                        | 25.53                  | 20.87                          |
| 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        | 69.2 PK                       | 74.0              | -4.8           | 1.03 V                   | 95                         | 60.97                  | 8.23                           |
| 2                                                   | 5150.00        | 48.5 AV                       | 54.0              | -5.5           | 1.03 V                   | 95                         | 40.27                  | 8.23                           |
| 3                                                   | *5240.00       | 122.0 PK                      |                   |                | 1.03 V                   | 95                         | 113.60                 | 8.40                           |
| 4                                                   | *5240.00       | 111.6 AV                      |                   |                | 1.03 V                   | 95                         | 103.20                 | 8.40                           |
| 5                                                   | #10480.00      | 58.0 PK                       | 74.0              | -16.0          | 1.46 V                   | 307                        | 42.79                  | 15.21                          |
| 6                                                   | #10480.00      | 47.2 AV                       | 54.0              | -6.8           | 1.46 V                   | 307                        | 31.99                  | 15.21                          |
| 7                                                   | 15720.00       | 59.0 PK                       | 74.0              | -15.0          | 1.10 V                   | 32                         | 38.13                  | 20.87                          |
| 8                                                   | 15720.00       | 48.2 AV                       | 54.0              | -5.8           | 1.10 V                   | 32                         | 27.33                  | 20.87                          |

**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(VHT40), 1Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 38 | 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        | 62.2 PK                       | 74.0              | -11.8          | 1.17 H                   | 90                         | 53.97                  | 8.23                           |
| 2                                                   | 5150.00        | 48.2 AV                       | 54.0              | -5.8           | 1.17 H                   | 90                         | 39.97                  | 8.23                           |
| 3                                                   | *5190.00       | 91.5 PK                       |                   |                | 1.17 H                   | 90                         | 83.26                  | 8.24                           |
| 4                                                   | *5190.00       | 81.7 AV                       |                   |                | 1.17 H                   | 90                         | 73.46                  | 8.24                           |
| 5                                                   | #10380.00      | 52.6 PK                       | 74.0              | -21.4          | 1.21 H                   | 208                        | 37.54                  | 15.06                          |
| 6                                                   | #10380.00      | 41.4 AV                       | 54.0              | -12.6          | 1.21 H                   | 208                        | 26.34                  | 15.06                          |
| 7                                                   | 15570.00       | 57.3 PK                       | 74.0              | -16.7          | 1.16 H                   | 134                        | 36.44                  | 20.86                          |
| 8                                                   | 15570.00       | 46.3 AV                       | 54.0              | -7.7           | 1.16 H                   | 134                        | 25.44                  | 20.86                          |
| 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        | 66.6 PK                       | 74.0              | -7.4           | 1.06 V                   | 76                         | 58.37                  | 8.23                           |
| 2                                                   | 5150.00        | 52.7 AV                       | 54.0              | -1.3           | 1.06 V                   | 76                         | 44.47                  | 8.23                           |
| 3                                                   | *5190.00       | 105.5 PK                      |                   |                | 1.04 V                   | 76                         | 97.26                  | 8.24                           |
| 4                                                   | *5190.00       | 95.8 AV                       |                   |                | 1.04 V                   | 76                         | 87.56                  | 8.24                           |
| 5                                                   | #10380.00      | 58.3 PK                       | 74.0              | -15.7          | 1.39 V                   | 318                        | 43.24                  | 15.06                          |
| 6                                                   | #10380.00      | 47.3 AV                       | 54.0              | -6.7           | 1.39 V                   | 318                        | 32.24                  | 15.06                          |
| 7                                                   | 15570.00       | 58.4 PK                       | 74.0              | -15.6          | 1.10 V                   | 15                         | 37.54                  | 20.86                          |
| 8                                                   | 15570.00       | 48.0 AV                       | 54.0              | -6.0           | 1.10 V                   | 15                         | 27.14                  | 20.86                          |

## 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<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                                                   | 5127.00        | 63.7 PK                       | 74.0              | -10.3          | 1.10 H                   | 107                        | 55.48                  | 8.22                           |
| 2                                                   | 5127.00        | 48.8 AV                       | 54.0              | -5.2           | 1.10 H                   | 107                        | 40.58                  | 8.22                           |
| 3                                                   | *5230.00       | 100.8 PK                      |                   |                | 1.10 H                   | 107                        | 92.44                  | 8.36                           |
| 4                                                   | *5230.00       | 90.6 AV                       |                   |                | 1.10 H                   | 107                        | 82.24                  | 8.36                           |
| 5                                                   | #10460.00      | 52.7 PK                       | 74.0              | -21.3          | 1.13 H                   | 226                        | 37.49                  | 15.21                          |
| 6                                                   | #10460.00      | 41.2 AV                       | 54.0              | -12.8          | 1.13 H                   | 226                        | 25.99                  | 15.21                          |
| 7                                                   | 15690.00       | 58.1 PK                       | 74.0              | -15.9          | 1.17 H                   | 121                        | 37.19                  | 20.91                          |
| 8                                                   | 15690.00       | 46.8 AV                       | 54.0              | -7.2           | 1.17 H                   | 121                        | 25.89                  | 20.91                          |
| 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        | 67.9 PK                       | 74.0              | -6.1           | 1.06 V                   | 77                         | 59.67                  | 8.23                           |
| 2                                                   | 5150.00        | 52.7 AV                       | 54.0              | -1.3           | 1.06 V                   | 77                         | 44.47                  | 8.23                           |
| 3                                                   | *5230.00       | 115.1 PK                      |                   |                | 1.06 V                   | 77                         | 106.74                 | 8.36                           |
| 4                                                   | *5230.00       | 105.0 AV                      |                   |                | 1.06 V                   | 77                         | 96.64                  | 8.36                           |
| 5                                                   | #10460.00      | 58.2 PK                       | 74.0              | -15.8          | 1.46 V                   | 311                        | 42.99                  | 15.21                          |
| 6                                                   | #10460.00      | 47.4 AV                       | 54.0              | -6.6           | 1.46 V                   | 311                        | 32.19                  | 15.21                          |
| 7                                                   | 15690.00       | 59.6 PK                       | 74.0              | -14.4          | 1.13 V                   | 42                         | 38.69                  | 20.91                          |
| 8                                                   | 15690.00       | 48.6 AV                       | 54.0              | -5.4           | 1.13 V                   | 42                         | 27.69                  | 20.91                          |

**REMARKS:**

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

# 802.11ac(VHT80), 1Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| 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        | 60.7 PK                       | 74.0              | -13.3          | 1.13 H                   | 105                        | 52.47                  | 8.23                           |
| 2                                                   | 5150.00        | 48.4 AV                       | 54.0              | -5.6           | 1.13 H                   | 105                        | 40.17                  | 8.23                           |
| 3                                                   | *5210.00       | 92.0 PK                       |                   |                | 1.13 H                   | 105                        | 83.73                  | 8.27                           |
| 4                                                   | *5210.00       | 82.3 AV                       |                   |                | 1.13 H                   | 105                        | 74.03                  | 8.27                           |
| 5                                                   | #10420.00      | 52.6 PK                       | 74.0              | -21.4          | 1.16 H                   | 227                        | 37.39                  | 15.21                          |
| 6                                                   | #10420.00      | 41.1 AV                       | 54.0              | -12.9          | 1.16 H                   | 227                        | 25.89                  | 15.21                          |
| 7                                                   | 15630.00       | 57.9 PK                       | 74.0              | -16.1          | 1.11 H                   | 130                        | 37.01                  | 20.89                          |
| 8                                                   | 15630.00       | 46.8 AV                       | 54.0              | -7.2           | 1.11 H                   | 130                        | 25.91                  | 20.89                          |
| 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        | 65.0 PK                       | 74.0              | -9.0           | 1.04 V                   | 75                         | 56.77                  | 8.23                           |
| 2                                                   | 5150.00        | 52.7 AV                       | 54.0              | -1.3           | 1.04 V                   | 75                         | 44.47                  | 8.23                           |
| 3                                                   | *5210.00       | 106.3 PK                      |                   |                | 1.03 V                   | 75                         | 98.03                  | 8.27                           |
| 4                                                   | *5210.00       | 96.6 AV                       |                   |                | 1.03 V                   | 75                         | 88.33                  | 8.27                           |
| 5                                                   | #10420.00      | 59.0 PK                       | 74.0              | -15.0          | 1.32 V                   | 327                        | 43.79                  | 15.21                          |
| 6                                                   | #10420.00      | 48.2 AV                       | 54.0              | -5.8           | 1.32 V                   | 327                        | 32.99                  | 15.21                          |
| 7                                                   | 15630.00       | 58.8 PK                       | 74.0              | -15.2          | 1.14 V                   | 52                         | 37.91                  | 20.89                          |
| 8                                                   | 15630.00       | 48.3 AV                       | 54.0              | -5.7           | 1.14 V                   | 52                         | 27.41                  | 20.89                          |

## 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.

# 802.11a, 2Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| CHANNEL         | TX Channel 36 | 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                                                   | 5107.00        | 54.6 PK                       | 74.0              | -19.4          | 1.00 H                   | 92                         | 46.38                  | 8.22                           |
| 2                                                   | 5107.00        | 43.4 AV                       | 54.0              | -10.6          | 1.00 H                   | 92                         | 35.18                  | 8.22                           |
| 3                                                   | *5180.00       | 100.3 PK                      |                   |                | 1.10 H                   | 92                         | 92.07                  | 8.23                           |
| 4                                                   | *5180.00       | 89.1 AV                       |                   |                | 1.10 H                   | 92                         | 80.87                  | 8.23                           |
| 5                                                   | #10360.00      | 53.3 PK                       | 74.0              | -20.7          | 1.19 H                   | 234                        | 38.42                  | 14.88                          |
| 6                                                   | #10360.00      | 41.5 AV                       | 54.0              | -12.5          | 1.19 H                   | 234                        | 26.62                  | 14.88                          |
| 7                                                   | 15540.00       | 58.2 PK                       | 74.0              | -15.8          | 1.11 H                   | 131                        | 37.35                  | 20.85                          |
| 8                                                   | 15540.00       | 46.7 AV                       | 54.0              | -7.3           | 1.11 H                   | 131                        | 25.85                  | 20.85                          |
| 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                                                   | 5094.00        | 60.6 PK                       | 74.0              | -13.4          | 1.01 V                   | 86                         | 52.41                  | 8.19                           |
| 2                                                   | 5094.00        | 46.0 AV                       | 54.0              | -8.0           | 1.01 V                   | 86                         | 37.81                  | 8.19                           |
| 3                                                   | *5180.00       | 113.4 PK                      |                   |                | 1.01 V                   | 86                         | 105.17                 | 8.23                           |
| 4                                                   | *5180.00       | 103.8 AV                      |                   |                | 1.01 V                   | 86                         | 95.57                  | 8.23                           |
| 5                                                   | #10360.00      | 57.4 PK                       | 74.0              | -16.6          | 1.46 V                   | 326                        | 42.52                  | 14.88                          |
| 6                                                   | #10360.00      | 47.0 AV                       | 54.0              | -7.0           | 1.46 V                   | 326                        | 32.12                  | 14.88                          |
| 7                                                   | 15540.00       | 59.0 PK                       | 74.0              | -15.0          | 1.17 V                   | 22                         | 38.15                  | 20.85                          |
| 8                                                   | 15540.00       | 48.9 AV                       | 54.0              | -5.1           | 1.17 V                   | 22                         | 28.05                  | 20.85                          |

## 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<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                                                   | *5200.00       | 99.1 PK                       |                   |                | 1.16 H                   | 87                         | 90.86                  | 8.24                           |
| 2                                                   | *5200.00       | 89.8 AV                       |                   |                | 1.16 H                   | 87                         | 81.56                  | 8.24                           |
| 3                                                   | #10400.00      | 53.5 PK                       | 74.0              | -20.5          | 1.09 H                   | 224                        | 38.27                  | 15.23                          |
| 4                                                   | #10400.00      | 41.6 AV                       | 54.0              | -12.4          | 1.09 H                   | 224                        | 26.37                  | 15.23                          |
| 5                                                   | 15600.00       | 57.6 PK                       | 74.0              | -16.4          | 1.00 H                   | 138                        | 36.72                  | 20.88                          |
| 6                                                   | 15600.00       | 46.2 AV                       | 54.0              | -7.8           | 1.00 H                   | 138                        | 25.32                  | 20.88                          |
| 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       | 113.6 PK                      |                   |                | 1.00 V                   | 97                         | 105.36                 | 8.24                           |
| 2                                                   | *5200.00       | 104.3 AV                      |                   |                | 1.00 V                   | 97                         | 96.06                  | 8.24                           |
| 3                                                   | #10400.00      | 57.7 PK                       | 74.0              | -16.3          | 1.41 V                   | 329                        | 42.47                  | 15.23                          |
| 4                                                   | #10400.00      | 47.0 AV                       | 54.0              | -7.0           | 1.41 V                   | 329                        | 31.77                  | 15.23                          |
| 5                                                   | 15600.00       | 59.3 PK                       | 74.0              | -14.7          | 1.14 V                   | 30                         | 38.42                  | 20.88                          |
| 6                                                   | 15600.00       | 49.2 AV                       | 54.0              | -4.8           | 1.14 V                   | 30                         | 28.32                  | 20.88                          |

**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<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                                                   | *5240.00       | 99.3 PK                       |                   |                | 1.05 H                   | 80                         | 90.90                  | 8.40                           |
| 2                                                   | *5240.00       | 89.2 AV                       |                   |                | 1.05 H                   | 80                         | 80.80                  | 8.40                           |
| 3                                                   | #10480.00      | 52.9 PK                       | 74.0              | -21.1          | 1.14 H                   | 208                        | 37.69                  | 15.21                          |
| 4                                                   | #10480.00      | 40.8 AV                       | 54.0              | -13.2          | 1.14 H                   | 208                        | 25.59                  | 15.21                          |
| 5                                                   | 15720.00       | 57.6 PK                       | 74.0              | -16.4          | 1.13 H                   | 130                        | 36.73                  | 20.87                          |
| 6                                                   | 15720.00       | 46.2 AV                       | 54.0              | -7.8           | 1.13 H                   | 130                        | 25.33                  | 20.87                          |
| 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       | 113.0 PK                      |                   |                | 1.00 V                   | 97                         | 104.60                 | 8.40                           |
| 2                                                   | *5240.00       | 103.1 AV                      |                   |                | 1.00 V                   | 97                         | 94.70                  | 8.40                           |
| 3                                                   | #10480.00      | 57.2 PK                       | 74.0              | -16.8          | 1.50 V                   | 313                        | 41.99                  | 15.21                          |
| 4                                                   | #10480.00      | 47.0 AV                       | 54.0              | -7.0           | 1.50 V                   | 313                        | 31.79                  | 15.21                          |
| 5                                                   | 15720.00       | 58.9 PK                       | 74.0              | -15.1          | 1.18 V                   | 36                         | 38.03                  | 20.87                          |
| 6                                                   | 15720.00       | 48.6 AV                       | 54.0              | -5.4           | 1.18 V                   | 36                         | 27.73                  | 20.87                          |

**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<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                                                   | *5260.00       | 106.6 PK                      |                   |                | 1.07 H                   | 91                         | 98.14                  | 8.46                           |
| 2                                                   | *5260.00       | 96.7 AV                       |                   |                | 1.07 H                   | 91                         | 88.24                  | 8.46                           |
| 3                                                   | #10520.00      | 53.6 PK                       | 74.0              | -20.4          | 1.14 H                   | 243                        | 38.34                  | 15.26                          |
| 4                                                   | #10520.00      | 41.6 AV                       | 54.0              | -12.4          | 1.14 H                   | 243                        | 26.34                  | 15.26                          |
| 5                                                   | 15780.00       | 57.8 PK                       | 74.0              | -16.2          | 1.12 H                   | 94                         | 37.05                  | 20.75                          |
| 6                                                   | 15780.00       | 46.3 AV                       | 54.0              | -7.7           | 1.12 H                   | 94                         | 25.55                  | 20.75                          |
| 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                                                   | *5260.00       | 120.7 PK                      |                   |                | 1.00 V                   | 97                         | 112.24                 | 8.46                           |
| 2                                                   | *5260.00       | 110.9 AV                      |                   |                | 1.00 V                   | 97                         | 102.44                 | 8.46                           |
| 3                                                   | #10520.00      | 57.3 PK                       | 74.0              | -16.7          | 1.47 V                   | 323                        | 42.04                  | 15.26                          |
| 4                                                   | #10520.00      | 46.8 AV                       | 54.0              | -7.2           | 1.47 V                   | 323                        | 31.54                  | 15.26                          |
| 5                                                   | 15780.00       | 59.1 PK                       | 74.0              | -14.9          | 1.22 V                   | 14                         | 38.35                  | 20.75                          |
| 6                                                   | 15780.00       | 48.8 AV                       | 54.0              | -5.2           | 1.22 V                   | 14                         | 28.05                  | 20.75                          |

**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<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                                                   | *5300.00       | 106.4 PK                      |                   |                | 1.08 H                   | 79                         | 97.78                  | 8.62                           |
| 2                                                   | *5300.00       | 96.3 AV                       |                   |                | 1.08 H                   | 79                         | 87.68                  | 8.62                           |
| 3                                                   | 10600.00       | 52.7 PK                       | 74.0              | -21.3          | 1.19 H                   | 223                        | 37.17                  | 15.53                          |
| 4                                                   | 10600.00       | 41.2 AV                       | 54.0              | -12.8          | 1.19 H                   | 223                        | 25.67                  | 15.53                          |
| 5                                                   | 15900.00       | 57.9 PK                       | 74.0              | -16.1          | 1.16 H                   | 127                        | 36.60                  | 21.30                          |
| 6                                                   | 15900.00       | 46.7 AV                       | 54.0              | -7.3           | 1.16 H                   | 127                        | 25.40                  | 21.30                          |
| 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       | 120.1 PK                      |                   |                | 1.00 V                   | 97                         | 111.48                 | 8.62                           |
| 2                                                   | *5300.00       | 110.1 AV                      |                   |                | 1.00 V                   | 97                         | 101.48                 | 8.62                           |
| 3                                                   | 10600.00       | 57.1 PK                       | 74.0              | -16.9          | 1.46 V                   | 320                        | 41.57                  | 15.53                          |
| 4                                                   | 10600.00       | 46.7 AV                       | 54.0              | -7.3           | 1.46 V                   | 320                        | 31.17                  | 15.53                          |
| 5                                                   | 15900.00       | 59.0 PK                       | 74.0              | -15.0          | 1.22 V                   | 8                          | 37.70                  | 21.30                          |
| 6                                                   | 15900.00       | 48.9 AV                       | 54.0              | -5.1           | 1.22 V                   | 8                          | 27.60                  | 21.30                          |

**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.

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| 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       | 102.3 PK                      |                   |                | 1.12 H                   | 79                         | 93.61                  | 8.69                           |
| 2                                                   | *5320.00       | 92.7 AV                       |                   |                | 1.12 H                   | 79                         | 84.01                  | 8.69                           |
| 3                                                   | 5350.00        | 65.3 PK                       | 74.0              | -8.7           | 1.12 H                   | 79                         | 56.50                  | 8.80                           |
| 4                                                   | 5350.00        | 48.6 AV                       | 54.0              | -5.4           | 1.12 H                   | 79                         | 39.80                  | 8.80                           |
| 5                                                   | 10640.00       | 52.9 PK                       | 74.0              | -21.1          | 1.14 H                   | 228                        | 37.36                  | 15.54                          |
| 6                                                   | 10640.00       | 41.3 AV                       | 54.0              | -12.7          | 1.14 H                   | 228                        | 25.76                  | 15.54                          |
| 7                                                   | 15960.00       | 58.4 PK                       | 74.0              | -15.6          | 1.16 H                   | 126                        | 37.58                  | 20.82                          |
| 8                                                   | 15960.00       | 46.9 AV                       | 54.0              | -7.1           | 1.16 H                   | 126                        | 26.08                  | 20.82                          |
| 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       | 116.2 PK                      |                   |                | 1.00 V                   | 139                        | 107.51                 | 8.69                           |
| 2                                                   | *5320.00       | 106.6 AV                      |                   |                | 1.00 V                   | 139                        | 97.91                  | 8.69                           |
| 3                                                   | 5350.00        | 69.1 PK                       | 74.0              | -4.9           | 1.00 V                   | 134                        | 60.30                  | 8.80                           |
| 4                                                   | 5350.00        | 52.5 AV                       | 54.0              | -1.5           | 1.00 V                   | 134                        | 43.70                  | 8.80                           |
| 5                                                   | 10640.00       | 57.1 PK                       | 74.0              | -16.9          | 1.52 V                   | 330                        | 41.56                  | 15.54                          |
| 6                                                   | 10640.00       | 46.9 AV                       | 54.0              | -7.1           | 1.52 V                   | 330                        | 31.36                  | 15.54                          |
| 7                                                   | 15960.00       | 59.1 PK                       | 74.0              | -14.9          | 1.16 V                   | 21                         | 38.28                  | 20.82                          |
| 8                                                   | 15960.00       | 48.7 AV                       | 54.0              | -5.3           | 1.16 V                   | 21                         | 27.88                  | 20.82                          |

**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.

|                 |                |                      |              |
|-----------------|----------------|----------------------|--------------|
| CHANNEL         | TX Channel 100 | 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                                                   | 5414.00        | 66.9 PK                       | 74.0              | -7.1           | 1.05 H                   | 83                         | 57.89                  | 9.01                           |
| 2                                                   | 5414.00        | 48.5 AV                       | 54.0              | -5.5           | 1.05 H                   | 83                         | 39.49                  | 9.01                           |
| 3                                                   | *5500.00       | 103.3 PK                      |                   |                | 1.05 H                   | 83                         | 93.97                  | 9.33                           |
| 4                                                   | *5500.00       | 93.6 AV                       |                   |                | 1.05 H                   | 83                         | 84.27                  | 9.33                           |
| 5                                                   | 11000.00       | 53.3 PK                       | 74.0              | -20.7          | 1.18 H                   | 225                        | 36.35                  | 16.95                          |
| 6                                                   | 11000.00       | 41.6 AV                       | 54.0              | -12.4          | 1.18 H                   | 225                        | 24.65                  | 16.95                          |
| 7                                                   | #16500.00      | 58.3 PK                       | 74.0              | -15.7          | 1.11 H                   | 118                        | 35.26                  | 23.04                          |
| 8                                                   | #16500.00      | 46.8 AV                       | 54.0              | -7.2           | 1.11 H                   | 118                        | 23.76                  | 23.04                          |
| 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                                                   | #5470.00       | 71.2 PK                       | 74.0              | -2.8           | 1.00 V                   | 210                        | 61.98                  | 9.22                           |
| 2                                                   | #5470.00       | 52.7 AV                       | 54.0              | -1.3           | 1.00 V                   | 210                        | 43.48                  | 9.22                           |
| 3                                                   | *5500.00       | 117.5 PK                      |                   |                | 1.08 V                   | 223                        | 108.17                 | 9.33                           |
| 4                                                   | *5500.00       | 107.7 AV                      |                   |                | 1.08 V                   | 223                        | 98.37                  | 9.33                           |
| 5                                                   | 11000.00       | 57.5 PK                       | 74.0              | -16.5          | 1.40 V                   | 333                        | 40.55                  | 16.95                          |
| 6                                                   | 11000.00       | 47.4 AV                       | 54.0              | -6.6           | 1.40 V                   | 333                        | 30.45                  | 16.95                          |
| 7                                                   | #16500.00      | 58.8 PK                       | 74.0              | -15.2          | 1.22 V                   | 13                         | 35.76                  | 23.04                          |
| 8                                                   | #16500.00      | 48.5 AV                       | 54.0              | -5.5           | 1.22 V                   | 13                         | 25.46                  | 23.04                          |

**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<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                                                   | *5580.00       | 107.4 PK                      |                   |                | 1.16 H                   | 98                         | 97.93                  | 9.47                           |
| 2                                                   | *5580.00       | 98.5 AV                       |                   |                | 1.16 H                   | 98                         | 89.03                  | 9.47                           |
| 3                                                   | 11160.00       | 52.9 PK                       | 74.0              | -21.1          | 1.19 H                   | 235                        | 36.69                  | 16.21                          |
| 4                                                   | 11160.00       | 41.0 AV                       | 54.0              | -13.0          | 1.19 H                   | 235                        | 24.79                  | 16.21                          |
| 5                                                   | #16740.00      | 57.5 PK                       | 74.0              | -16.5          | 1.11 H                   | 123                        | 33.82                  | 23.68                          |
| 6                                                   | #16740.00      | 45.9 AV                       | 54.0              | -8.1           | 1.11 H                   | 123                        | 22.22                  | 23.68                          |
| 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       | 121.0 PK                      |                   |                | 1.03 V                   | 95                         | 111.53                 | 9.47                           |
| 2                                                   | *5580.00       | 112.2 AV                      |                   |                | 1.03 V                   | 95                         | 102.73                 | 9.47                           |
| 3                                                   | 11160.00       | 57.8 PK                       | 74.0              | -16.2          | 1.49 V                   | 315                        | 41.59                  | 16.21                          |
| 4                                                   | 11160.00       | 47.5 AV                       | 54.0              | -6.5           | 1.49 V                   | 315                        | 31.29                  | 16.21                          |
| 5                                                   | #16740.00      | 59.1 PK                       | 74.0              | -14.9          | 1.18 V                   | 35                         | 35.42                  | 23.68                          |
| 6                                                   | #16740.00      | 48.9 AV                       | 54.0              | -5.1           | 1.18 V                   | 35                         | 25.22                  | 23.68                          |

**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 132 | 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                                                   | *5660.00       | 106.1 PK                      |                   |                | 1.02 H                   | 78                         | 96.37                  | 9.73                           |
| 2                                                   | *5660.00       | 96.4 AV                       |                   |                | 1.02 H                   | 78                         | 86.67                  | 9.73                           |
| 3                                                   | 11320.00       | 52.6 PK                       | 74.0              | -21.4          | 1.15 H                   | 231                        | 35.68                  | 16.92                          |
| 4                                                   | 11320.00       | 41.0 AV                       | 54.0              | -13.0          | 1.15 H                   | 231                        | 24.08                  | 16.92                          |
| 5                                                   | #16980.00      | 58.1 PK                       | 74.0              | -15.9          | 1.14 H                   | 118                        | 33.90                  | 24.20                          |
| 6                                                   | #16980.00      | 47.1 AV                       | 54.0              | -6.9           | 1.14 H                   | 118                        | 22.90                  | 24.20                          |
| 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                                                   | *5660.00       | 120.1 PK                      |                   |                | 1.12 V                   | 92                         | 110.37                 | 9.73                           |
| 2                                                   | *5660.00       | 110.4 AV                      |                   |                | 1.12 V                   | 92                         | 100.67                 | 9.73                           |
| 3                                                   | 11320.00       | 57.0 PK                       | 74.0              | -17.0          | 1.50 V                   | 329                        | 40.08                  | 16.92                          |
| 4                                                   | 11320.00       | 46.8 AV                       | 54.0              | -7.2           | 1.50 V                   | 329                        | 29.88                  | 16.92                          |
| 5                                                   | #16980.00      | 59.3 PK                       | 74.0              | -14.7          | 1.22 V                   | 22                         | 35.10                  | 24.20                          |
| 6                                                   | #16980.00      | 49.2 AV                       | 54.0              | -4.8           | 1.22 V                   | 22                         | 25.00                  | 24.20                          |

**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       | 103.9 PK                      |                   |                | 1.08 H                   | 74                         | 94.02                  | 9.88                           |
| 2                                                   | *5700.00       | 94.4 AV                       |                   |                | 1.08 H                   | 74                         | 84.52                  | 9.88                           |
| 3                                                   | #5780.00       | 68.5 PK                       | 74.0              | -5.5           | 1.08 H                   | 74                         | 58.51                  | 9.99                           |
| 4                                                   | #5780.00       | 47.4 AV                       | 54.0              | -6.6           | 1.08 H                   | 74                         | 37.41                  | 9.99                           |
| 5                                                   | 11400.00       | 54.0 PK                       | 74.0              | -20.0          | 1.21 H                   | 221                        | 37.25                  | 16.75                          |
| 6                                                   | 11400.00       | 42.0 AV                       | 54.0              | -12.0          | 1.21 H                   | 221                        | 25.25                  | 16.75                          |
| 7                                                   | #17100.00      | 58.2 PK                       | 74.0              | -15.8          | 1.15 H                   | 143                        | 33.14                  | 25.06                          |
| 8                                                   | #17100.00      | 46.7 AV                       | 54.0              | -7.3           | 1.15 H                   | 143                        | 21.64                  | 25.06                          |
| 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       | 117.4 PK                      |                   |                | 1.11 V                   | 284                        | 107.52                 | 9.88                           |
| 2                                                   | *5700.00       | 108.2 AV                      |                   |                | 1.11 V                   | 284                        | 98.32                  | 9.88                           |
| 3                                                   | #5725.00       | 72.7 PK                       | 74.0              | -1.3           | 1.21 V                   | 284                        | 62.79                  | 9.91                           |
| 4                                                   | #5725.00       | 51.6 AV                       | 54.0              | -2.4           | 1.21 V                   | 284                        | 41.69                  | 9.91                           |
| 5                                                   | 11400.00       | 57.6 PK                       | 74.0              | -16.4          | 1.42 V                   | 337                        | 40.85                  | 16.75                          |
| 6                                                   | 11400.00       | 47.4 AV                       | 54.0              | -6.6           | 1.42 V                   | 337                        | 30.65                  | 16.75                          |
| 7                                                   | #17100.00      | 58.9 PK                       | 74.0              | -15.1          | 1.13 V                   | 37                         | 33.84                  | 25.06                          |
| 8                                                   | #17100.00      | 48.6 AV                       | 54.0              | -5.4           | 1.13 V                   | 37                         | 23.54                  | 25.06                          |

**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 36 | 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                                                   | 5105.00        | 61.7 PK                       | 74.0              | -12.3          | 1.02 H                   | 105                        | 53.48                  | 8.22                           |
| 2                                                   | 5105.00        | 43.3 AV                       | 54.0              | -10.7          | 1.02 H                   | 105                        | 35.08                  | 8.22                           |
| 3                                                   | *5180.00       | 100.1 PK                      |                   |                | 1.02 H                   | 105                        | 91.87                  | 8.23                           |
| 4                                                   | *5180.00       | 89.9 AV                       |                   |                | 1.02 H                   | 105                        | 81.67                  | 8.23                           |
| 5                                                   | #10360.00      | 53.3 PK                       | 74.0              | -20.7          | 1.13 H                   | 241                        | 38.42                  | 14.88                          |
| 6                                                   | #10360.00      | 41.6 AV                       | 54.0              | -12.4          | 1.13 H                   | 241                        | 26.72                  | 14.88                          |
| 7                                                   | 15540.00       | 57.8 PK                       | 74.0              | -16.2          | 1.04 H                   | 128                        | 36.95                  | 20.85                          |
| 8                                                   | 15540.00       | 46.2 AV                       | 54.0              | -7.8           | 1.04 H                   | 128                        | 25.35                  | 20.85                          |
| 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        | 65.1 PK                       | 74.0              | -8.9           | 1.02 V                   | 94                         | 56.87                  | 8.23                           |
| 2                                                   | 5150.00        | 46.8 AV                       | 54.0              | -7.2           | 1.02 V                   | 94                         | 38.57                  | 8.23                           |
| 3                                                   | *5180.00       | 113.7 PK                      |                   |                | 1.12 V                   | 96                         | 105.47                 | 8.23                           |
| 4                                                   | *5180.00       | 103.6 AV                      |                   |                | 1.12 V                   | 96                         | 95.37                  | 8.23                           |
| 5                                                   | #10360.00      | 57.7 PK                       | 74.0              | -16.3          | 1.43 V                   | 312                        | 42.82                  | 14.88                          |
| 6                                                   | #10360.00      | 47.4 AV                       | 54.0              | -6.6           | 1.43 V                   | 312                        | 32.52                  | 14.88                          |
| 7                                                   | 15540.00       | 59.4 PK                       | 74.0              | -14.6          | 1.13 V                   | 10                         | 38.55                  | 20.85                          |
| 8                                                   | 15540.00       | 49.0 AV                       | 54.0              | -5.0           | 1.13 V                   | 10                         | 28.15                  | 20.85                          |

## 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<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                                                   | *5200.00       | 100.0 PK                      |                   |                | 1.14 H                   | 66                         | 91.76                  | 8.24                           |
| 2                                                   | *5200.00       | 90.1 AV                       |                   |                | 1.14 H                   | 66                         | 81.86                  | 8.24                           |
| 3                                                   | #10400.00      | 53.2 PK                       | 74.0              | -20.8          | 1.14 H                   | 225                        | 37.97                  | 15.23                          |
| 4                                                   | #10400.00      | 41.7 AV                       | 54.0              | -12.3          | 1.14 H                   | 225                        | 26.47                  | 15.23                          |
| 5                                                   | 15600.00       | 56.7 PK                       | 74.0              | -17.3          | 1.01 H                   | 116                        | 35.82                  | 20.88                          |
| 6                                                   | 15600.00       | 45.2 AV                       | 54.0              | -8.8           | 1.01 H                   | 116                        | 24.32                  | 20.88                          |
| 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       | 114.2 PK                      |                   |                | 1.00 V                   | 81                         | 105.96                 | 8.24                           |
| 2                                                   | *5200.00       | 104.1 AV                      |                   |                | 1.00 V                   | 81                         | 95.86                  | 8.24                           |
| 3                                                   | #10400.00      | 57.5 PK                       | 74.0              | -16.5          | 1.41 V                   | 316                        | 42.27                  | 15.23                          |
| 4                                                   | #10400.00      | 47.0 AV                       | 54.0              | -7.0           | 1.41 V                   | 316                        | 31.77                  | 15.23                          |
| 5                                                   | 15600.00       | 59.1 PK                       | 74.0              | -14.9          | 1.12 V                   | 14                         | 38.22                  | 20.88                          |
| 6                                                   | 15600.00       | 49.3 AV                       | 54.0              | -4.7           | 1.12 V                   | 14                         | 28.42                  | 20.88                          |

**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<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                                                   | *5240.00       | 100.2 PK                      |                   |                | 1.07 H                   | 83                         | 91.80                  | 8.40                           |
| 2                                                   | *5240.00       | 90.0 AV                       |                   |                | 1.07 H                   | 83                         | 81.60                  | 8.40                           |
| 3                                                   | #10480.00      | 53.2 PK                       | 74.0              | -20.8          | 1.16 H                   | 238                        | 37.99                  | 15.21                          |
| 4                                                   | #10480.00      | 41.3 AV                       | 54.0              | -12.7          | 1.16 H                   | 238                        | 26.09                  | 15.21                          |
| 5                                                   | 15720.00       | 57.5 PK                       | 74.0              | -16.5          | 1.03 H                   | 109                        | 36.63                  | 20.87                          |
| 6                                                   | 15720.00       | 46.3 AV                       | 54.0              | -7.7           | 1.03 H                   | 109                        | 25.43                  | 20.87                          |
| 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       | 114.0 PK                      |                   |                | 1.00 V                   | 82                         | 105.60                 | 8.40                           |
| 2                                                   | *5240.00       | 104.0 AV                      |                   |                | 1.00 V                   | 82                         | 95.60                  | 8.40                           |
| 3                                                   | #10480.00      | 57.2 PK                       | 74.0              | -16.8          | 1.40 V                   | 331                        | 41.99                  | 15.21                          |
| 4                                                   | #10480.00      | 47.1 AV                       | 54.0              | -6.9           | 1.40 V                   | 331                        | 31.89                  | 15.21                          |
| 5                                                   | 15720.00       | 59.2 PK                       | 74.0              | -14.8          | 1.14 V                   | 11                         | 38.33                  | 20.87                          |
| 6                                                   | 15720.00       | 49.2 AV                       | 54.0              | -4.8           | 1.14 V                   | 11                         | 28.33                  | 20.87                          |

#### 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<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                                                   | *5260.00       | 108.0 PK                      |                   |                | 1.13 H                   | 78                         | 99.54                  | 8.46                           |
| 2                                                   | *5260.00       | 98.3 AV                       |                   |                | 1.13 H                   | 78                         | 89.84                  | 8.46                           |
| 3                                                   | #10520.00      | 53.1 PK                       | 74.0              | -20.9          | 1.10 H                   | 237                        | 37.84                  | 15.26                          |
| 4                                                   | #10520.00      | 41.7 AV                       | 54.0              | -12.3          | 1.10 H                   | 237                        | 26.44                  | 15.26                          |
| 5                                                   | 15780.00       | 57.8 PK                       | 74.0              | -16.2          | 1.03 H                   | 126                        | 37.05                  | 20.75                          |
| 6                                                   | 15780.00       | 46.4 AV                       | 54.0              | -7.6           | 1.03 H                   | 126                        | 25.65                  | 20.75                          |
| 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                                                   | *5260.00       | 122.0 PK                      |                   |                | 1.00 V                   | 96                         | 113.54                 | 8.46                           |
| 2                                                   | *5260.00       | 112.1 AV                      |                   |                | 1.00 V                   | 96                         | 103.64                 | 8.46                           |
| 3                                                   | #10520.00      | 57.0 PK                       | 74.0              | -17.0          | 1.48 V                   | 327                        | 41.74                  | 15.26                          |
| 4                                                   | #10520.00      | 46.7 AV                       | 54.0              | -7.3           | 1.48 V                   | 327                        | 31.44                  | 15.26                          |
| 5                                                   | 15780.00       | 58.9 PK                       | 74.0              | -15.1          | 1.15 V                   | 18                         | 38.15                  | 20.75                          |
| 6                                                   | 15780.00       | 48.7 AV                       | 54.0              | -5.3           | 1.15 V                   | 18                         | 27.95                  | 20.75                          |

#### 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<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                                                   | *5300.00       | 106.7 PK                      |                   |                | 1.12 H                   | 80                         | 98.08                  | 8.62                           |
| 2                                                   | *5300.00       | 97.0 AV                       |                   |                | 1.12 H                   | 80                         | 88.38                  | 8.62                           |
| 3                                                   | 10600.00       | 52.5 PK                       | 74.0              | -21.5          | 1.12 H                   | 242                        | 36.97                  | 15.53                          |
| 4                                                   | 10600.00       | 40.9 AV                       | 54.0              | -13.1          | 1.12 H                   | 242                        | 25.37                  | 15.53                          |
| 5                                                   | 15900.00       | 58.0 PK                       | 74.0              | -16.0          | 1.03 H                   | 144                        | 36.70                  | 21.30                          |
| 6                                                   | 15900.00       | 46.3 AV                       | 54.0              | -7.7           | 1.03 H                   | 144                        | 25.00                  | 21.30                          |
| 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       | 120.9 PK                      |                   |                | 1.00 V                   | 95                         | 112.28                 | 8.62                           |
| 2                                                   | *5300.00       | 111.1 AV                      |                   |                | 1.00 V                   | 95                         | 102.48                 | 8.62                           |
| 3                                                   | 10600.00       | 58.0 PK                       | 74.0              | -16.0          | 1.42 V                   | 338                        | 42.47                  | 15.53                          |
| 4                                                   | 10600.00       | 47.5 AV                       | 54.0              | -6.5           | 1.42 V                   | 338                        | 31.97                  | 15.53                          |
| 5                                                   | 15900.00       | 59.6 PK                       | 74.0              | -14.4          | 1.16 V                   | 15                         | 38.30                  | 21.30                          |
| 6                                                   | 15900.00       | 49.2 AV                       | 54.0              | -4.8           | 1.16 V                   | 15                         | 27.90                  | 21.30                          |

**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.

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| 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       | 102.4 PK                      |                   |                | 1.11 H                   | 97                         | 93.71                  | 8.69                           |
| 2                                                   | *5320.00       | 92.5 AV                       |                   |                | 1.11 H                   | 97                         | 83.81                  | 8.69                           |
| 3                                                   | 5400.00        | 66.4 PK                       | 74.0              | -7.6           | 1.11 H                   | 97                         | 57.43                  | 8.97                           |
| 4                                                   | 5400.00        | 48.4 AV                       | 54.0              | -5.6           | 1.11 H                   | 97                         | 39.43                  | 8.97                           |
| 5                                                   | 10640.00       | 52.4 PK                       | 74.0              | -21.6          | 1.03 H                   | 250                        | 36.86                  | 15.54                          |
| 6                                                   | 10640.00       | 40.8 AV                       | 54.0              | -13.2          | 1.03 H                   | 250                        | 25.26                  | 15.54                          |
| 7                                                   | 15960.00       | 57.8 PK                       | 74.0              | -16.2          | 1.00 H                   | 101                        | 36.98                  | 20.82                          |
| 8                                                   | 15960.00       | 46.2 AV                       | 54.0              | -7.8           | 1.00 H                   | 101                        | 25.38                  | 20.82                          |
| 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       | 115.7 PK                      |                   |                | 1.20 V                   | 277                        | 107.01                 | 8.69                           |
| 2                                                   | *5320.00       | 106.0 AV                      |                   |                | 1.20 V                   | 277                        | 97.31                  | 8.69                           |
| 3                                                   | 5350.00        | 70.8 PK                       | 74.0              | -3.2           | 1.19 V                   | 289                        | 62.00                  | 8.80                           |
| 4                                                   | 5350.00        | 52.6 AV                       | 54.0              | -1.4           | 1.19 V                   | 289                        | 43.80                  | 8.80                           |
| 5                                                   | 10640.00       | 59.0 PK                       | 74.0              | -15.0          | 1.43 V                   | 295                        | 43.46                  | 15.54                          |
| 6                                                   | 10640.00       | 48.0 AV                       | 54.0              | -6.0           | 1.43 V                   | 295                        | 32.46                  | 15.54                          |
| 7                                                   | 15960.00       | 59.5 PK                       | 74.0              | -14.5          | 1.11 V                   | 53                         | 38.68                  | 20.82                          |
| 8                                                   | 15960.00       | 48.6 AV                       | 54.0              | -5.4           | 1.11 V                   | 53                         | 27.78                  | 20.82                          |

**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.

|                 |                |                      |              |
|-----------------|----------------|----------------------|--------------|
| CHANNEL         | TX Channel 100 | 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                                                   | #5470.00       | 68.2 PK                       | 74.0              | -5.8           | 1.12 H                   | 80                         | 58.98                  | 9.22                           |
| 2                                                   | #5470.00       | 48.9 AV                       | 54.0              | -5.1           | 1.12 H                   | 80                         | 39.68                  | 9.22                           |
| 3                                                   | *5500.00       | 105.3 PK                      |                   |                | 1.12 H                   | 80                         | 95.97                  | 9.33                           |
| 4                                                   | *5500.00       | 95.1 AV                       |                   |                | 1.12 H                   | 80                         | 85.77                  | 9.33                           |
| 5                                                   | 11000.00       | 53.7 PK                       | 74.0              | -20.3          | 1.13 H                   | 248                        | 36.75                  | 16.95                          |
| 6                                                   | 11000.00       | 41.8 AV                       | 54.0              | -12.2          | 1.13 H                   | 248                        | 24.85                  | 16.95                          |
| 7                                                   | #16500.00      | 57.5 PK                       | 74.0              | -16.5          | 1.01 H                   | 121                        | 34.46                  | 23.04                          |
| 8                                                   | #16500.00      | 45.7 AV                       | 54.0              | -8.3           | 1.01 H                   | 121                        | 22.66                  | 23.04                          |
| 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                                                   | #5470.00       | 72.4 PK                       | 74.0              | -1.6           | 1.15 V                   | 259                        | 63.18                  | 9.22                           |
| 2                                                   | #5470.00       | 52.8 AV                       | 54.0              | -1.2           | 1.15 V                   | 259                        | 43.58                  | 9.22                           |
| 3                                                   | *5500.00       | 119.4 PK                      |                   |                | 1.14 V                   | 263                        | 110.07                 | 9.33                           |
| 4                                                   | *5500.00       | 109.4 AV                      |                   |                | 1.14 V                   | 263                        | 100.07                 | 9.33                           |
| 5                                                   | 11000.00       | 57.2 PK                       | 74.0              | -16.8          | 1.43 V                   | 336                        | 40.25                  | 16.95                          |
| 6                                                   | 11000.00       | 46.9 AV                       | 54.0              | -7.1           | 1.43 V                   | 336                        | 29.95                  | 16.95                          |
| 7                                                   | #16500.00      | 59.2 PK                       | 74.0              | -14.8          | 1.20 V                   | 11                         | 36.16                  | 23.04                          |
| 8                                                   | #16500.00      | 49.3 AV                       | 54.0              | -4.7           | 1.20 V                   | 11                         | 26.26                  | 23.04                          |

**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<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                                                   | *5580.00       | 106.2 PK                      |                   |                | 1.15 H                   | 78                         | 96.73                  | 9.47                           |
| 2                                                   | *5580.00       | 96.0 AV                       |                   |                | 1.15 H                   | 78                         | 86.53                  | 9.47                           |
| 3                                                   | 11160.00       | 52.9 PK                       | 74.0              | -21.1          | 1.14 H                   | 223                        | 36.69                  | 16.21                          |
| 4                                                   | 11160.00       | 40.9 AV                       | 54.0              | -13.1          | 1.14 H                   | 223                        | 24.69                  | 16.21                          |
| 5                                                   | #16740.00      | 57.5 PK                       | 74.0              | -16.5          | 1.05 H                   | 137                        | 33.82                  | 23.68                          |
| 6                                                   | #16740.00      | 46.0 AV                       | 54.0              | -8.0           | 1.05 H                   | 137                        | 22.32                  | 23.68                          |
| 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       | 120.4 PK                      |                   |                | 1.03 V                   | 95                         | 110.93                 | 9.47                           |
| 2                                                   | *5580.00       | 110.5 AV                      |                   |                | 1.03 V                   | 95                         | 101.03                 | 9.47                           |
| 3                                                   | 11160.00       | 57.0 PK                       | 74.0              | -17.0          | 1.43 V                   | 318                        | 40.79                  | 16.21                          |
| 4                                                   | 11160.00       | 46.8 AV                       | 54.0              | -7.2           | 1.43 V                   | 318                        | 30.59                  | 16.21                          |
| 5                                                   | #16740.00      | 58.3 PK                       | 74.0              | -15.7          | 1.13 V                   | 27                         | 34.62                  | 23.68                          |
| 6                                                   | #16740.00      | 48.4 AV                       | 54.0              | -5.6           | 1.13 V                   | 27                         | 24.72                  | 23.68                          |

**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 132 | 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                                                   | *5660.00       | 104.7 PK                      |                   |                | 1.13 H                   | 106                        | 94.97                  | 9.73                           |
| 2                                                   | *5660.00       | 94.8 AV                       |                   |                | 1.13 H                   | 106                        | 85.07                  | 9.73                           |
| 3                                                   | 11320.00       | 52.7 PK                       | 74.0              | -21.3          | 1.07 H                   | 237                        | 35.78                  | 16.92                          |
| 4                                                   | 11320.00       | 41.3 AV                       | 54.0              | -12.7          | 1.07 H                   | 237                        | 24.38                  | 16.92                          |
| 5                                                   | #16980.00      | 57.5 PK                       | 74.0              | -16.5          | 1.03 H                   | 120                        | 33.30                  | 24.20                          |
| 6                                                   | #16980.00      | 46.4 AV                       | 54.0              | -7.6           | 1.03 H                   | 120                        | 22.20                  | 24.20                          |
| 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                                                   | *5660.00       | 118.9 PK                      |                   |                | 1.02 V                   | 80                         | 109.17                 | 9.73                           |
| 2                                                   | *5660.00       | 109.0 AV                      |                   |                | 1.02 V                   | 80                         | 99.27                  | 9.73                           |
| 3                                                   | 11320.00       | 57.9 PK                       | 74.0              | -16.1          | 1.42 V                   | 318                        | 40.98                  | 16.92                          |
| 4                                                   | 11320.00       | 47.4 AV                       | 54.0              | -6.6           | 1.42 V                   | 318                        | 30.48                  | 16.92                          |
| 5                                                   | #16980.00      | 59.4 PK                       | 74.0              | -14.6          | 1.17 V                   | 9                          | 35.20                  | 24.20                          |
| 6                                                   | #16980.00      | 49.0 AV                       | 54.0              | -5.0           | 1.17 V                   | 9                          | 24.80                  | 24.20                          |

#### 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       | 104.2 PK                      |                   |                | 1.13 H                   | 87                         | 94.32                  | 9.88                           |
| 2                                                   | *5700.00       | 94.3 AV                       |                   |                | 1.13 H                   | 87                         | 84.42                  | 9.88                           |
| 3                                                   | #5725.00       | 69.6 PK                       | 74.0              | -4.4           | 1.13 H                   | 87                         | 59.69                  | 9.91                           |
| 4                                                   | #5725.00       | 49.2 AV                       | 54.0              | -4.8           | 1.13 H                   | 87                         | 39.29                  | 9.91                           |
| 5                                                   | 11400.00       | 53.7 PK                       | 74.0              | -20.3          | 1.17 H                   | 232                        | 36.95                  | 16.75                          |
| 6                                                   | 11400.00       | 42.0 AV                       | 54.0              | -12.0          | 1.17 H                   | 232                        | 25.25                  | 16.75                          |
| 7                                                   | #17100.00      | 57.6 PK                       | 74.0              | -16.4          | 1.07 H                   | 108                        | 32.54                  | 25.06                          |
| 8                                                   | #17100.00      | 46.1 AV                       | 54.0              | -7.9           | 1.07 H                   | 108                        | 21.04                  | 25.06                          |
| 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       | 118.4 PK                      |                   |                | 1.11 V                   | 275                        | 108.52                 | 9.88                           |
| 2                                                   | *5700.00       | 108.5 AV                      |                   |                | 1.11 V                   | 275                        | 98.62                  | 9.88                           |
| 3                                                   | #5725.00       | 73.0 PK                       | 74.0              | -1.0           | 1.10 V                   | 275                        | 63.09                  | 9.91                           |
| 4                                                   | #5725.00       | 53.0 AV                       | 54.0              | -1.0           | 1.10 V                   | 275                        | 43.09                  | 9.91                           |
| 5                                                   | 11400.00       | 58.0 PK                       | 74.0              | -16.0          | 1.40 V                   | 321                        | 41.25                  | 16.75                          |
| 6                                                   | 11400.00       | 47.3 AV                       | 54.0              | -6.7           | 1.40 V                   | 321                        | 30.55                  | 16.75                          |
| 7                                                   | #17100.00      | 58.8 PK                       | 74.0              | -15.2          | 1.18 V                   | 31                         | 33.74                  | 25.06                          |
| 8                                                   | #17100.00      | 48.7 AV                       | 54.0              | -5.3           | 1.18 V                   | 31                         | 23.64                  | 25.06                          |

**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<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        | 61.1 PK                       | 74.0              | -12.9          | 1.05 H                   | 84                         | 52.87                  | 8.23                           |
| 2                                                   | 5150.00        | 48.4 AV                       | 54.0              | -5.6           | 1.05 H                   | 84                         | 40.17                  | 8.23                           |
| 3                                                   | *5190.00       | 92.1 PK                       |                   |                | 1.05 H                   | 84                         | 83.86                  | 8.24                           |
| 4                                                   | *5190.00       | 83.6 AV                       |                   |                | 1.05 H                   | 84                         | 75.36                  | 8.24                           |
| 5                                                   | #10380.00      | 53.3 PK                       | 74.0              | -20.7          | 1.10 H                   | 234                        | 38.24                  | 15.06                          |
| 6                                                   | #10380.00      | 41.5 AV                       | 54.0              | -12.5          | 1.10 H                   | 234                        | 26.44                  | 15.06                          |
| 7                                                   | 15570.00       | 56.9 PK                       | 74.0              | -17.1          | 1.09 H                   | 116                        | 36.04                  | 20.86                          |
| 8                                                   | 15570.00       | 45.5 AV                       | 54.0              | -8.5           | 1.09 H                   | 116                        | 24.64                  | 20.86                          |
| 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        | 65.1 PK                       | 74.0              | -8.9           | 1.00 V                   | 113                        | 56.87                  | 8.23                           |
| 2                                                   | 5150.00        | 52.5 AV                       | 54.0              | -1.5           | 1.00 V                   | 113                        | 44.27                  | 8.23                           |
| 3                                                   | *5190.00       | 106.4 PK                      |                   |                | 1.00 V                   | 113                        | 98.16                  | 8.24                           |
| 4                                                   | *5190.00       | 97.8 AV                       |                   |                | 1.00 V                   | 113                        | 89.56                  | 8.24                           |
| 5                                                   | #10380.00      | 58.3 PK                       | 74.0              | -15.7          | 1.40 V                   | 305                        | 43.24                  | 15.06                          |
| 6                                                   | #10380.00      | 47.7 AV                       | 54.0              | -6.3           | 1.40 V                   | 305                        | 32.64                  | 15.06                          |
| 7                                                   | 15570.00       | 59.1 PK                       | 74.0              | -14.9          | 1.22 V                   | 17                         | 38.24                  | 20.86                          |
| 8                                                   | 15570.00       | 48.7 AV                       | 54.0              | -5.3           | 1.22 V                   | 17                         | 27.84                  | 20.86                          |

## 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<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                                                   | *5230.00       | 97.8 PK                       |                   |                | 1.11 H                   | 80                         | 89.44                  | 8.36                           |
| 2                                                   | *5230.00       | 88.4 AV                       |                   |                | 1.11 H                   | 80                         | 80.04                  | 8.36                           |
| 3                                                   | #10460.00      | 52.1 PK                       | 74.0              | -21.9          | 1.12 H                   | 244                        | 36.89                  | 15.21                          |
| 4                                                   | #10460.00      | 40.9 AV                       | 54.0              | -13.1          | 1.12 H                   | 244                        | 25.69                  | 15.21                          |
| 5                                                   | 15690.00       | 57.0 PK                       | 74.0              | -17.0          | 1.00 H                   | 141                        | 36.09                  | 20.91                          |
| 6                                                   | 15690.00       | 45.4 AV                       | 54.0              | -8.6           | 1.00 H                   | 141                        | 24.49                  | 20.91                          |
| 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       | 112.2 PK                      |                   |                | 1.00 V                   | 96                         | 103.84                 | 8.36                           |
| 2                                                   | *5230.00       | 102.6 AV                      |                   |                | 1.00 V                   | 96                         | 94.24                  | 8.36                           |
| 3                                                   | #10460.00      | 58.1 PK                       | 74.0              | -15.9          | 1.45 V                   | 331                        | 42.89                  | 15.21                          |
| 4                                                   | #10460.00      | 47.4 AV                       | 54.0              | -6.6           | 1.45 V                   | 331                        | 32.19                  | 15.21                          |
| 5                                                   | 15690.00       | 59.0 PK                       | 74.0              | -15.0          | 1.19 V                   | 41                         | 38.09                  | 20.91                          |
| 6                                                   | 15690.00       | 49.2 AV                       | 54.0              | -4.8           | 1.19 V                   | 41                         | 28.29                  | 20.91                          |

**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                                                   | *5270.00       | 101.5 PK                      |                   |                | 1.13 H                   | 63                         | 93.00                  | 8.50                           |
| 2                                                   | *5270.00       | 91.8 AV                       |                   |                | 1.13 H                   | 63                         | 83.30                  | 8.50                           |
| 3                                                   | 5350.00        | 66.1 PK                       | 74.0              | -7.9           | 1.13 H                   | 63                         | 57.30                  | 8.80                           |
| 4                                                   | 5350.00        | 48.3 AV                       | 54.0              | -5.7           | 1.13 H                   | 63                         | 39.50                  | 8.80                           |
| 5                                                   | #10540.00      | 53.4 PK                       | 74.0              | -20.6          | 1.18 H                   | 229                        | 38.07                  | 15.33                          |
| 6                                                   | #10540.00      | 41.9 AV                       | 54.0              | -12.1          | 1.18 H                   | 229                        | 26.57                  | 15.33                          |
| 7                                                   | 15810.00       | 57.0 PK                       | 74.0              | -17.0          | 1.07 H                   | 109                        | 36.24                  | 20.76                          |
| 8                                                   | 15810.00       | 45.8 AV                       | 54.0              | -8.2           | 1.07 H                   | 109                        | 25.04                  | 20.76                          |
| 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                                                   | *5270.00       | 116.1 PK                      |                   |                | 1.09 V                   | 291                        | 107.60                 | 8.50                           |
| 2                                                   | *5270.00       | 106.2 AV                      |                   |                | 1.09 V                   | 291                        | 97.70                  | 8.50                           |
| 3                                                   | 5350.00        | 70.7 PK                       | 74.0              | -3.3           | 1.06 V                   | 293                        | 61.90                  | 8.80                           |
| 4                                                   | 5350.00        | 52.6 AV                       | 54.0              | -1.4           | 1.06 V                   | 293                        | 43.80                  | 8.80                           |
| 5                                                   | #10540.00      | 58.3 PK                       | 74.0              | -15.7          | 1.44 V                   | 310                        | 42.97                  | 15.33                          |
| 6                                                   | #10540.00      | 47.5 AV                       | 54.0              | -6.5           | 1.44 V                   | 310                        | 32.17                  | 15.33                          |
| 7                                                   | 15810.00       | 58.6 PK                       | 74.0              | -15.4          | 1.14 V                   | 16                         | 37.84                  | 20.76                          |
| 8                                                   | 15810.00       | 48.4 AV                       | 54.0              | -5.6           | 1.14 V                   | 16                         | 27.64                  | 20.76                          |

**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<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                                                   | *5310.00       | 91.7 PK                       |                   |                | 1.04 H                   | 76                         | 83.05                  | 8.65                           |
| 2                                                   | *5310.00       | 82.6 AV                       |                   |                | 1.04 H                   | 76                         | 73.95                  | 8.65                           |
| 3                                                   | 5350.00        | 60.0 PK                       | 74.0              | -14.0          | 1.04 H                   | 76                         | 51.20                  | 8.80                           |
| 4                                                   | 5350.00        | 47.8 AV                       | 54.0              | -6.2           | 1.04 H                   | 76                         | 39.00                  | 8.80                           |
| 5                                                   | 10620.00       | 53.3 PK                       | 74.0              | -20.7          | 1.06 H                   | 244                        | 37.77                  | 15.53                          |
| 6                                                   | 10620.00       | 41.8 AV                       | 54.0              | -12.2          | 1.06 H                   | 244                        | 26.27                  | 15.53                          |
| 7                                                   | 15930.00       | 57.2 PK                       | 74.0              | -16.8          | 1.05 H                   | 131                        | 36.13                  | 21.07                          |
| 8                                                   | 15930.00       | 45.8 AV                       | 54.0              | -8.2           | 1.05 H                   | 131                        | 24.73                  | 21.07                          |
| 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       | 105.6 PK                      |                   |                | 1.05 V                   | 111                        | 96.95                  | 8.65                           |
| 2                                                   | *5310.00       | 96.5 AV                       |                   |                | 1.05 V                   | 111                        | 87.85                  | 8.65                           |
| 3                                                   | 5350.00        | 64.3 PK                       | 74.0              | -9.7           | 1.05 V                   | 111                        | 55.50                  | 8.80                           |
| 4                                                   | 5350.00        | 52.2 AV                       | 54.0              | -1.8           | 1.05 V                   | 111                        | 43.40                  | 8.80                           |
| 5                                                   | 10620.00       | 57.8 PK                       | 74.0              | -16.2          | 1.43 V                   | 337                        | 42.27                  | 15.53                          |
| 6                                                   | 10620.00       | 47.0 AV                       | 54.0              | -7.0           | 1.43 V                   | 337                        | 31.47                  | 15.53                          |
| 7                                                   | 15930.00       | 58.8 PK                       | 74.0              | -15.2          | 1.13 V                   | 40                         | 37.73                  | 21.07                          |
| 8                                                   | 15930.00       | 48.9 AV                       | 54.0              | -5.1           | 1.13 V                   | 40                         | 27.83                  | 21.07                          |

**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.

|                 |                |                      |              |
|-----------------|----------------|----------------------|--------------|
| CHANNEL         | TX Channel 102 | 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                                                   | #5470.00       | 61.5 PK                       | 74.0              | -12.5          | 1.04 H                   | 90                         | 52.28                  | 9.22                           |
| 2                                                   | #5470.00       | 44.7 AV                       | 54.0              | -9.3           | 1.04 H                   | 90                         | 35.48                  | 9.22                           |
| 3                                                   | *5510.00       | 97.8 PK                       |                   |                | 1.04 H                   | 90                         | 88.45                  | 9.35                           |
| 4                                                   | *5510.00       | 87.7 AV                       |                   |                | 1.04 H                   | 90                         | 78.35                  | 9.35                           |
| 5                                                   | 11020.00       | 52.6 PK                       | 74.0              | -21.4          | 1.05 H                   | 225                        | 35.79                  | 16.81                          |
| 6                                                   | 11020.00       | 41.3 AV                       | 54.0              | -12.7          | 1.05 H                   | 225                        | 24.49                  | 16.81                          |
| 7                                                   | #16530.00      | 57.4 PK                       | 74.0              | -16.6          | 1.05 H                   | 100                        | 34.24                  | 23.16                          |
| 8                                                   | #16530.00      | 46.0 AV                       | 54.0              | -8.0           | 1.05 H                   | 100                        | 22.84                  | 23.16                          |
| 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                                                   | #5470.00       | 65.4 PK                       | 74.0              | -8.6           | 1.17 V                   | 288                        | 56.18                  | 9.22                           |
| 2                                                   | #5470.00       | 48.5 AV                       | 54.0              | -5.5           | 1.17 V                   | 288                        | 39.28                  | 9.22                           |
| 3                                                   | *5510.00       | 112.0 PK                      |                   |                | 1.16 V                   | 288                        | 102.65                 | 9.35                           |
| 4                                                   | *5510.00       | 102.1 AV                      |                   |                | 1.16 V                   | 288                        | 92.75                  | 9.35                           |
| 5                                                   | 11020.00       | 58.2 PK                       | 74.0              | -15.8          | 1.34 V                   | 322                        | 41.39                  | 16.81                          |
| 6                                                   | 11020.00       | 47.2 AV                       | 54.0              | -6.8           | 1.34 V                   | 322                        | 30.39                  | 16.81                          |
| 7                                                   | #16530.00      | 59.1 PK                       | 74.0              | -14.9          | 1.21 V                   | 31                         | 35.94                  | 23.16                          |
| 8                                                   | #16530.00      | 49.1 AV                       | 54.0              | -4.9           | 1.21 V                   | 31                         | 25.94                  | 23.16                          |

**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<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                                                   | #5470.00       | 65.5 PK                       | 74.0              | -8.5           | 1.12 H                   | 93                         | 56.28                  | 9.22                           |
| 2                                                   | #5470.00       | 48.8 AV                       | 54.0              | -5.2           | 1.12 H                   | 93                         | 39.58                  | 9.22                           |
| 3                                                   | *5550.00       | 106.1 PK                      |                   |                | 1.12 H                   | 93                         | 96.68                  | 9.42                           |
| 4                                                   | *5550.00       | 95.9 AV                       |                   |                | 1.12 H                   | 93                         | 86.48                  | 9.42                           |
| 5                                                   | #5725.00       | 52.5 PK                       | 74.0              | -21.5          | 1.12 H                   | 93                         | 42.59                  | 9.91                           |
| 6                                                   | #5725.00       | 41.4 AV                       | 54.0              | -12.6          | 1.12 H                   | 93                         | 31.49                  | 9.91                           |
| 7                                                   | 11100.00       | 52.6 PK                       | 74.0              | -21.4          | 1.07 H                   | 235                        | 36.28                  | 16.32                          |
| 8                                                   | 11100.00       | 41.1 AV                       | 54.0              | -12.9          | 1.07 H                   | 235                        | 24.78                  | 16.32                          |
| 9                                                   | #16650.00      | 57.4 PK                       | 74.0              | -16.6          | 1.02 H                   | 137                        | 33.95                  | 23.45                          |
| 10                                                  | #16650.00      | 46.4 AV                       | 54.0              | -7.6           | 1.02 H                   | 137                        | 22.95                  | 23.45                          |
| 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                                                   | #5470.00       | 69.1 PK                       | 74.0              | -4.9           | 1.17 V                   | 288                        | 59.88                  | 9.22                           |
| 2                                                   | #5470.00       | 52.5 AV                       | 54.0              | -1.5           | 1.17 V                   | 288                        | 43.28                  | 9.22                           |
| 3                                                   | *5550.00       | 119.6 PK                      |                   |                | 1.15 V                   | 287                        | 110.18                 | 9.42                           |
| 4                                                   | *5550.00       | 109.6 AV                      |                   |                | 1.15 V                   | 287                        | 100.18                 | 9.42                           |
| 5                                                   | #5725.00       | 56.7 PK                       | 74.0              | -17.3          | 1.17 V                   | 288                        | 46.79                  | 9.91                           |
| 6                                                   | #5725.00       | 45.8 AV                       | 54.0              | -8.2           | 1.17 V                   | 288                        | 35.89                  | 9.91                           |
| 7                                                   | 11100.00       | 58.3 PK                       | 74.0              | -15.7          | 1.35 V                   | 308                        | 41.98                  | 16.32                          |
| 8                                                   | 11100.00       | 47.5 AV                       | 54.0              | -6.5           | 1.35 V                   | 308                        | 31.18                  | 16.32                          |
| 9                                                   | #16650.00      | 58.5 PK                       | 74.0              | -15.5          | 1.21 V                   | 19                         | 35.05                  | 23.45                          |
| 10                                                  | #16650.00      | 48.7 AV                       | 54.0              | -5.3           | 1.21 V                   | 19                         | 25.25                  | 23.45                          |

**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<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                                                   | *5670.00       | 96.9 PK                       |                   |                | 1.06 H                   | 85                         | 87.13                  | 9.77                           |
| 2                                                   | *5670.00       | 87.0 AV                       |                   |                | 1.06 H                   | 85                         | 77.23                  | 9.77                           |
| 3                                                   | #5725.00       | 55.8 PK                       | 74.0              | -18.2          | 1.06 H                   | 85                         | 45.89                  | 9.91                           |
| 4                                                   | #5725.00       | 44.8 AV                       | 54.0              | -9.2           | 1.06 H                   | 85                         | 34.89                  | 9.91                           |
| 5                                                   | 11340.00       | 53.2 PK                       | 74.0              | -20.8          | 1.08 H                   | 242                        | 36.32                  | 16.88                          |
| 6                                                   | 11340.00       | 41.4 AV                       | 54.0              | -12.6          | 1.08 H                   | 242                        | 24.52                  | 16.88                          |
| 7                                                   | #17010.00      | 57.8 PK                       | 74.0              | -16.2          | 1.00 H                   | 114                        | 33.55                  | 24.25                          |
| 8                                                   | #17010.00      | 46.3 AV                       | 54.0              | -7.7           | 1.00 H                   | 114                        | 22.05                  | 24.25                          |
| 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       | 110.8 PK                      |                   |                | 1.03 V                   | 128                        | 101.03                 | 9.77                           |
| 2                                                   | *5670.00       | 100.9 AV                      |                   |                | 1.03 V                   | 128                        | 91.13                  | 9.77                           |
| 3                                                   | #5725.00       | 59.4 PK                       | 74.0              | -14.6          | 1.03 V                   | 128                        | 49.49                  | 9.91                           |
| 4                                                   | #5725.00       | 48.3 AV                       | 54.0              | -5.7           | 1.03 V                   | 128                        | 38.39                  | 9.91                           |
| 5                                                   | 11340.00       | 57.5 PK                       | 74.0              | -16.5          | 1.46 V                   | 333                        | 40.62                  | 16.88                          |
| 6                                                   | 11340.00       | 46.9 AV                       | 54.0              | -7.1           | 1.46 V                   | 333                        | 30.02                  | 16.88                          |
| 7                                                   | #17010.00      | 59.0 PK                       | 74.0              | -15.0          | 1.17 V                   | 37                         | 34.75                  | 24.25                          |
| 8                                                   | #17010.00      | 48.8 AV                       | 54.0              | -5.2           | 1.17 V                   | 37                         | 24.55                  | 24.25                          |

**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), 2Tx

|                 |               |                      |              |
|-----------------|---------------|----------------------|--------------|
| 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        | 60.1 PK                       | 74.0              | -13.9          | 1.10 H                   | 87                         | 51.87                  | 8.23                           |
| 2                                                   | 5150.00        | 47.9 AV                       | 54.0              | -6.1           | 1.10 H                   | 87                         | 39.67                  | 8.23                           |
| 3                                                   | *5210.00       | 90.3 PK                       |                   |                | 1.10 H                   | 87                         | 82.03                  | 8.27                           |
| 4                                                   | *5210.00       | 80.6 AV                       |                   |                | 1.10 H                   | 87                         | 72.33                  | 8.27                           |
| 5                                                   | #10420.00      | 53.1 PK                       | 74.0              | -20.9          | 1.06 H                   | 219                        | 37.89                  | 15.21                          |
| 6                                                   | #10420.00      | 41.5 AV                       | 54.0              | -12.5          | 1.06 H                   | 219                        | 26.29                  | 15.21                          |
| 7                                                   | 15630.00       | 58.2 PK                       | 74.0              | -15.8          | 1.00 H                   | 139                        | 37.31                  | 20.89                          |
| 8                                                   | 15630.00       | 46.4 AV                       | 54.0              | -7.6           | 1.00 H                   | 139                        | 25.51                  | 20.89                          |
| 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        | 64.3 PK                       | 74.0              | -9.7           | 1.03 V                   | 131                        | 56.07                  | 8.23                           |
| 2                                                   | 5150.00        | 52.2 AV                       | 54.0              | -1.8           | 1.03 V                   | 131                        | 43.97                  | 8.23                           |
| 3                                                   | *5210.00       | 104.4 PK                      |                   |                | 1.03 V                   | 131                        | 96.13                  | 8.27                           |
| 4                                                   | *5210.00       | 94.7 AV                       |                   |                | 1.03 V                   | 131                        | 86.43                  | 8.27                           |
| 5                                                   | #10420.00      | 57.7 PK                       | 74.0              | -16.3          | 1.34 V                   | 308                        | 42.49                  | 15.21                          |
| 6                                                   | #10420.00      | 46.9 AV                       | 54.0              | -7.1           | 1.34 V                   | 308                        | 31.69                  | 15.21                          |
| 7                                                   | 15630.00       | 59.2 PK                       | 74.0              | -14.8          | 1.14 V                   | 40                         | 38.31                  | 20.89                          |
| 8                                                   | 15630.00       | 49.0 AV                       | 54.0              | -5.0           | 1.14 V                   | 40                         | 28.11                  | 20.89                          |

## 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        | 52.5 PK                       | 74.0              | -21.5          | 1.14 H                   | 89                         | 44.27                  | 8.23                           |
| 2                                                   | 5150.00        | 41.0 AV                       | 54.0              | -13.0          | 1.14 H                   | 89                         | 32.77                  | 8.23                           |
| 3                                                   | *5290.00       | 89.6 PK                       |                   |                | 1.14 H                   | 89                         | 81.01                  | 8.59                           |
| 4                                                   | *5290.00       | 79.6 AV                       |                   |                | 1.14 H                   | 89                         | 71.01                  | 8.59                           |
| 5                                                   | 5350.00        | 59.6 PK                       | 74.0              | -14.4          | 1.14 H                   | 89                         | 50.80                  | 8.80                           |
| 6                                                   | 5350.00        | 48.7 AV                       | 54.0              | -5.3           | 1.14 H                   | 89                         | 39.90                  | 8.80                           |
| 7                                                   | #10580.00      | 53.5 PK                       | 74.0              | -20.5          | 1.18 H                   | 226                        | 38.04                  | 15.46                          |
| 8                                                   | #10580.00      | 41.5 AV                       | 54.0              | -12.5          | 1.18 H                   | 226                        | 26.04                  | 15.46                          |
| 9                                                   | 15870.00       | 57.4 PK                       | 74.0              | -16.6          | 1.02 H                   | 120                        | 36.29                  | 21.11                          |
| 10                                                  | 15870.00       | 45.8 AV                       | 54.0              | -8.2           | 1.02 H                   | 120                        | 24.69                  | 21.11                          |
| 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        | 51.7 PK                       | 74.0              | -22.3          | 1.07 V                   | 112                        | 43.47                  | 8.23                           |
| 2                                                   | 5150.00        | 40.1 AV                       | 54.0              | -13.9          | 1.07 V                   | 112                        | 31.87                  | 8.23                           |
| 3                                                   | *5290.00       | 103.6 PK                      |                   |                | 1.07 V                   | 112                        | 95.01                  | 8.59                           |
| 4                                                   | *5290.00       | 93.9 AV                       |                   |                | 1.07 V                   | 112                        | 85.31                  | 8.59                           |
| 5                                                   | 5350.00        | 63.5 PK                       | 74.0              | -10.5          | 1.07 V                   | 112                        | 54.70                  | 8.80                           |
| 6                                                   | 5350.00        | 52.5 AV                       | 54.0              | -1.5           | 1.07 V                   | 112                        | 43.70                  | 8.80                           |
| 7                                                   | #10580.00      | 57.6 PK                       | 74.0              | -16.4          | 1.42 V                   | 312                        | 42.14                  | 15.46                          |
| 8                                                   | #10580.00      | 47.1 AV                       | 54.0              | -6.9           | 1.42 V                   | 312                        | 31.64                  | 15.46                          |
| 9                                                   | 15870.00       | 59.2 PK                       | 74.0              | -14.8          | 1.14 V                   | 21                         | 38.09                  | 21.11                          |
| 10                                                  | 15870.00       | 49.1 AV                       | 54.0              | -4.9           | 1.14 V                   | 21                         | 27.99                  | 21.11                          |

**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                                                   | #5470.00       | 59.9 PK                       | 74.0              | -14.1          | 1.14 H                   | 93                         | 50.68                  | 9.22                           |
| 2                                                   | #5470.00       | 48.5 AV                       | 54.0              | -5.5           | 1.14 H                   | 93                         | 39.28                  | 9.22                           |
| 3                                                   | *5530.00       | 89.1 PK                       |                   |                | 1.14 H                   | 93                         | 79.71                  | 9.39                           |
| 4                                                   | *5530.00       | 86.0 AV                       |                   |                | 1.14 H                   | 93                         | 76.61                  | 9.39                           |
| 5                                                   | #5725.00       | 52.6 PK                       | 74.0              | -21.4          | 1.14 H                   | 93                         | 42.69                  | 9.91                           |
| 6                                                   | #5725.00       | 40.1 AV                       | 54.0              | -13.9          | 1.14 H                   | 93                         | 30.19                  | 9.91                           |
| 7                                                   | 11060.00       | 53.4 PK                       | 74.0              | -20.6          | 1.14 H                   | 223                        | 36.83                  | 16.57                          |
| 8                                                   | 11060.00       | 42.0 AV                       | 54.0              | -12.0          | 1.14 H                   | 223                        | 25.43                  | 16.57                          |
| 9                                                   | #16590.00      | 57.5 PK                       | 74.0              | -16.5          | 1.03 H                   | 109                        | 34.09                  | 23.41                          |
| 10                                                  | #16590.00      | 46.1 AV                       | 54.0              | -7.9           | 1.03 H                   | 109                        | 22.69                  | 23.41                          |
| 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                                                   | #5470.00       | 64.0 PK                       | 74.0              | -10.0          | 1.08 V                   | 298                        | 54.78                  | 9.22                           |
| 2                                                   | #5470.00       | 52.4 AV                       | 54.0              | -1.6           | 1.08 V                   | 298                        | 43.18                  | 9.22                           |
| 3                                                   | *5530.00       | 103.0 PK                      |                   |                | 1.39 V                   | 128                        | 93.61                  | 9.39                           |
| 4                                                   | *5530.00       | 99.7 AV                       |                   |                | 1.39 V                   | 128                        | 90.31                  | 9.39                           |
| 5                                                   | #5725.00       | 56.9 PK                       | 74.0              | -17.1          | 1.24 V                   | 284                        | 46.99                  | 9.91                           |
| 6                                                   | #5725.00       | 44.2 AV                       | 54.0              | -9.8           | 1.24 V                   | 284                        | 34.29                  | 9.91                           |
| 7                                                   | 11060.00       | 58.6 PK                       | 74.0              | -15.4          | 1.44 V                   | 332                        | 42.03                  | 16.57                          |
| 8                                                   | 11060.00       | 47.6 AV                       | 54.0              | -6.4           | 1.44 V                   | 332                        | 31.03                  | 16.57                          |
| 9                                                   | #16590.00      | 58.8 PK                       | 74.0              | -15.2          | 1.23 V                   | 40                         | 35.39                  | 23.41                          |
| 10                                                  | #16590.00      | 48.6 AV                       | 54.0              | -5.4           | 1.23 V                   | 40                         | 25.19                  | 23.41                          |

**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.

## 4.3 TRANSMIT POWER MEASUREMENT

### 4.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

| FREQUENCY BAND   | LIMIT                                         |
|------------------|-----------------------------------------------|
| 5.150 ~ 5.250GHz | The lesser of 50mW (17dBm) or 4dBm + 10logB   |
| 5.250 ~ 5.350GHz | The lesser of 250mW (24dBm) or 11dBm + 10logB |
| 5.470 ~ 5.725GHz | The lesser of 250mW (24dBm) or 11dBm + 10logB |

**NOTE:** Where B is the 26dB emission bandwidth in MHz.

Per KDB 662911 D01 Multiple Transmitter Output Method of conducted output power measurement on IEEE 802.11 devices,

Array Gain = 0 dB (i.e., no array gain) for NANT ≤ 4;

Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any NANT;

Array Gain = 5 log(NANT/NSS) dB or 3 dB, whichever is less for 20-MHz channel widths with NANT ≥ 5.

For power measurements on all other devices: Array Gain = 10 log(NANT/NSS) dB.

### 4.3.2 TEST INSTRUMENTS

#### FOR POWER OUTPUT MEASUREMENT

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|----------------------------|-----------|------------|-----------------|------------------|
| Power Meter                | ML2495A   | 1014008    | Apr. 23, 2013   | Apr. 22, 2014    |
| Power Sensor               | MA2411B   | 0917122    | Apr. 23, 2013   | Apr. 22, 2014    |

**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. Tested date : Jan. 14 to 16, 2014

#### FOR 26dB OCCUPIED BANDWIDTH

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|----------------------------|-----------|------------|-----------------|------------------|
| R&S Spectrum Analyzer      | FSP40     | 100036     | Jan. 21, 2013   | Jan. 20, 2014    |

**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. Tested date : Jan. 14 to 16, 2014

### 4.3.3 TEST PROCEDURE

#### FOR POWER OUTPUT MEASUREMENT

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 26dB OCCUPIED BANDWIDTH

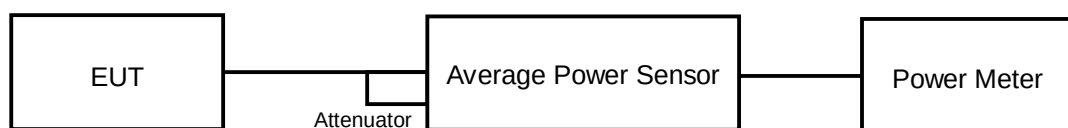
1. Set RBW = approximately 1% of the emission bandwidth.
2. Set the VBW > RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Measure the maximum width of the emission that is 26 dB down from the peak of the emission. Compare this with the RBW setting of the analyzer. Readjust RBW and repeat measurement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

### 4.3.4 DEVIATION FROM TEST STANDARD

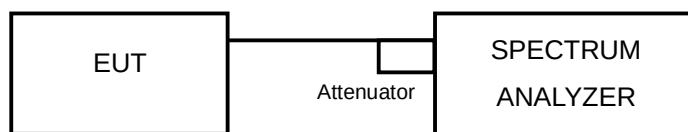
No deviation

### 4.3.5 TEST SETUP

#### FOR POWER OUTPUT MEASUREMENT



#### FOR 26dB OCCUPIED BANDWIDTH



#### 4.3.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

#### 4.3.7 TEST RESULTS

##### 802.11a, 1Tx

##### POWER OUTPUT

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | AVERAGE POWER<br>(mW) | AVERAGE POWER<br>(dBm) | POWER LIMIT<br>(dBm) | PASS/FAIL |
|---------|-------------------------------|-----------------------|------------------------|----------------------|-----------|
| 36      | 5180                          | 46.774                | 16.70                  | 17                   | PASS      |
| 40      | 5200                          | 46.881                | 16.71                  | 17                   | PASS      |
| 48      | 5240                          | 43.954                | 16.43                  | 17                   | PASS      |
| 52      | 5260                          | 73.451                | 18.66                  | 24                   | PASS      |
| 60      | 5300                          | 67.143                | 18.27                  | 24                   | PASS      |
| 64      | 5320                          | 36.308                | 15.60                  | 24                   | PASS      |
| 100     | 5500                          | 64.417                | 18.09                  | 24                   | PASS      |
| 116     | 5580                          | 77.090                | 18.87                  | 24                   | PASS      |
| 132     | 5660                          | 71.945                | 18.57                  | 24                   | PASS      |
| 140     | 5700                          | 38.994                | 15.91                  | 24                   | PASS      |

## 26dB OCCUPIED BANDWIDTH

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) |
|---------|-------------------------|-----------------------|
| 36      | 5180                    | 21.75                 |
| 40      | 5200                    | 21.63                 |
| 48      | 5240                    | 21.64                 |
| 52      | 5260                    | 32.40                 |
| 60      | 5300                    | 25.38                 |
| 64      | 5320                    | 21.59                 |
| 100     | 5500                    | 21.48                 |
| 116     | 5580                    | 30.47                 |
| 132     | 5660                    | 34.62                 |
| 140     | 5700                    | 25.16                 |

**Note:** For output power limitation is determined based on 26dBc bandwidth.

| Power Limit = 4dBm + 10logB < UNII Band 1 >    |            |             |                                  |
|------------------------------------------------|------------|-------------|----------------------------------|
| Channel Number                                 | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 36                                             | 5180       | 21.75       | 17.37 > 17                       |
| 40                                             | 5200       | 21.63       | 17.35 > 17                       |
| 48                                             | 5240       | 21.64       | 17.35 > 17                       |
| Power Limit = 11dBm + 10logB < UNII Band 2~3 > |            |             |                                  |
| Channel Number                                 | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 52                                             | 5260       | 32.40       | 26.1 > 24                        |
| 60                                             | 5300       | 25.38       | 25.04 > 24                       |
| 64                                             | 5320       | 21.59       | 24.34 > 24                       |
| 100                                            | 5500       | 21.48       | 24.32 > 24                       |
| 116                                            | 5580       | 30.47       | 25.83 > 24                       |
| 132                                            | 5660       | 34.62       | 26.39 > 24                       |
| 140                                            | 5700       | 25.16       | 25 > 24                          |

### 802.11ac(VHT20), 1Tx

| CHANNEL | CHANNEL FREQUENCY (MHz) | AVERAGE POWER (mW) | AVERAGE POWER (dBm) | POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|--------------------|---------------------|-------------------|-----------|
| 36      | 5180                    | 41.210             | 16.15               | 17                | PASS      |
| 40      | 5200                    | 45.290             | 16.56               | 17                | PASS      |
| 48      | 5240                    | 44.361             | 16.47               | 17                | PASS      |

### 26dB OCCUPIED BANDWIDTH

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) |
|---------|-------------------------|-----------------------|
| 36      | 5180                    | 22.18                 |
| 40      | 5200                    | 22.31                 |
| 48      | 5240                    | 22.30                 |

**Note: For output power limitation is determined based on 26dBc bandwidth.**

| Power Limit = 4dBm + 10logB < UNII Band 1 > |            |             |                                  |
|---------------------------------------------|------------|-------------|----------------------------------|
| Channel Number                              | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 36                                          | 5180       | 22.18       | 17.45 > 17                       |
| 40                                          | 5200       | 22.31       | 17.48 > 17                       |
| 48                                          | 5240       | 22.30       | 17.48 > 17                       |

### 802.11ac(VHT40), 1Tx

| CHANNEL | CHANNEL FREQUENCY (MHz) | AVERAGE POWER (mW) | AVERAGE POWER (dBm) | POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|--------------------|---------------------|-------------------|-----------|
| 38      | 5190                    | 11.402             | 10.57               | 17                | PASS      |
| 46      | 5230                    | 48.084             | 16.82               | 17                | PASS      |

### 26dB OCCUPIED BANDWIDTH

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) |
|---------|-------------------------|-----------------------|
| 38      | 5190                    | 45.62                 |
| 46      | 5230                    | 56.08                 |

**Note: For output power limitation is determined based on 26dBc bandwidth.**

| Power Limit = 4dBm + 10logB < UNII Band 1 > |            |             |                                  |
|---------------------------------------------|------------|-------------|----------------------------------|
| Channel Number                              | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 38                                          | 5190       | 45.62       | 20.59 > 17                       |
| 46                                          | 5230       | 56.08       | 21.48 > 17                       |



A D T

**802.11ac(VHT80), 1Tx****POWER OUTPUT**

| CHANNEL | CHANNEL FREQUENCY (MHz) | AVERAGE POWER (mW) | AVERAGE POWER (dBm) | POWER LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|--------------------|---------------------|-------------------|-----------|
| 42      | 5210                    | 12.190             | 10.86               | 17                | PASS      |

**26dB OCCUPIED BANDWIDTH**

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) |
|---------|-------------------------|-----------------------|
| 42      | 5210                    | 83.05                 |

**Note:** For output power limitation is determined based on 26dBc bandwidth.

| Power Limit = 4dBm + 10logB < UNII Band 1 > |            |             |                                  |
|---------------------------------------------|------------|-------------|----------------------------------|
| Channel Number                              | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 42                                          | 5210       | 83.05       | 23.19 > 17                       |

# 802.11a, 2Tx

## POWER OUTPUT

| CHAN. | CHAN.<br>FREQ.<br>(MHz) | AVERAGE POWER (dBm) |         | TOTAL<br>POWER<br>(mW) | TOTAL<br>POWER<br>(dBm) | POWER<br>LIMIT<br>(dBm) | PASS /<br>FAIL |
|-------|-------------------------|---------------------|---------|------------------------|-------------------------|-------------------------|----------------|
|       |                         | CHAIN 0             | CHAIN 1 |                        |                         |                         |                |
| 36    | 5180                    | 11.75               | 11.45   | 28.926                 | 14.61                   | 17                      | PASS           |
| 40    | 5200                    | 11.44               | 11.58   | 28.320                 | 14.52                   | 17                      | PASS           |
| 48    | 5240                    | 11.57               | 11.43   | 28.255                 | 14.51                   | 17                      | PASS           |
| 52    | 5260                    | 18.66               | 18.70   | 147.582                | 21.69                   | 24                      | PASS           |
| 60    | 5300                    | 18.27               | 18.19   | 133.060                | 21.24                   | 24                      | PASS           |
| 64    | 5320                    | 15.16               | 15.05   | 64.799                 | 18.12                   | 24                      | PASS           |
| 100   | 5500                    | 16.95               | 16.08   | 90.096                 | 19.55                   | 24                      | PASS           |
| 116   | 5580                    | 18.87               | 18.41   | 146.433                | 21.66                   | 24                      | PASS           |
| 132   | 5660                    | 18.57               | 18.42   | 141.447                | 21.51                   | 24                      | PASS           |
| 140   | 5700                    | 15.58               | 15.33   | 70.260                 | 18.47                   | 24                      | PASS           |

## 26dB OCCUPIED BANDWIDTH

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) |         |
|---------|-------------------------|-----------------------|---------|
|         |                         | CHAIN 0               | CHAIN 1 |
| 36      | 5180                    | 21.52                 | 21.17   |
| 40      | 5200                    | 21.50                 | 20.96   |
| 48      | 5240                    | 21.54                 | 21.13   |
| 52      | 5260                    | 28.74                 | 25.87   |
| 60      | 5300                    | 25.28                 | 25.83   |
| 64      | 5320                    | 21.63                 | 21.26   |
| 100     | 5500                    | 21.53                 | 21.34   |
| 116     | 5580                    | 24.30                 | 24.23   |
| 132     | 5660                    | 23.70                 | 24.35   |
| 140     | 5700                    | 21.45                 | 21.37   |

**Note: For output power limitation is determined based on 26dBc bandwidth.**

| Power Limit = 4dBm + 10logB < UNII Band 1 >    |            |             |                                  |
|------------------------------------------------|------------|-------------|----------------------------------|
| Channel Number                                 | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 36                                             | 5180       | 21.17       | 17.25 > 17                       |
| 40                                             | 5200       | 20.96       | 17.21 > 17                       |
| 48                                             | 5240       | 21.13       | 17.24 > 17                       |
| Power Limit = 11dBm + 10logB < UNII Band 2~3 > |            |             |                                  |
| Channel Number                                 | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 52                                             | 5260       | 25.87       | 25.12 > 24                       |
| 60                                             | 5300       | 25.28       | 25.02 > 24                       |
| 64                                             | 5320       | 21.26       | 24.27 > 24                       |
| 100                                            | 5500       | 21.34       | 24.29 > 24                       |
| 116                                            | 5580       | 24.23       | 24.84 > 24                       |
| 132                                            | 5660       | 23.70       | 24.74 > 24                       |
| 140                                            | 5700       | 21.37       | 24.29 > 24                       |

# 802.11ac(VHT20), 2Tx POWER OUTPUT

| CHAN. | CHAN. FREQ. (MHz) | AVERAGE POWER (dBm) |         | TOTAL POWER (mW) | TOTAL POWER (dBm) | POWER LIMIT (dBm) | PASS / FAIL |
|-------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|       |                   | CHAIN 0             | CHAIN 1 |                  |                   |                   |             |
| 36    | 5180              | 11.32               | 11.43   | 27.452           | 14.39             | 14.99             | PASS        |
| 40    | 5200              | 11.54               | 11.16   | 27.318           | 14.36             | 14.99             | PASS        |
| 48    | 5240              | 11.24               | 11.38   | 27.045           | 14.32             | 14.99             | PASS        |
| 52    | 5260              | 18.38               | 18.38   | 137.730          | 21.39             | 21.99             | PASS        |
| 60    | 5300              | 18.34               | 18.39   | 137.258          | 21.38             | 21.99             | PASS        |
| 64    | 5320              | 14.26               | 14.85   | 57.218           | 17.58             | 21.99             | PASS        |
| 100   | 5500              | 15.75               | 15.55   | 73.476           | 18.66             | 21.99             | PASS        |
| 116   | 5580              | 18.16               | 18.57   | 137.409          | 21.38             | 21.99             | PASS        |
| 132   | 5660              | 18.22               | 18.45   | 136.358          | 21.35             | 21.99             | PASS        |
| 140   | 5700              | 15.72               | 15.33   | 71.444           | 18.54             | 21.99             | PASS        |

- NOTE:**
1. 5150~5250MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power limit shall be reduced to 17-(8.01-6) = 14.99dBm.
  2. 5250~5350MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power limit shall be reduced to 24-(8.01-6) = 21.99dBm.
  3. 5470~5725MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power limit shall be reduced to 24-(8.01-6) = 21.99dBm.

## 26dB OCCUPIED BANDWIDTH

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) |         |
|---------|-------------------------|-----------------------|---------|
|         |                         | CHAIN 0               | CHAIN 1 |
| 36      | 5180                    | 22.22                 | 22.27   |
| 40      | 5200                    | 22.12                 | 22.23   |
| 48      | 5240                    | 22.06                 | 22.11   |
| 52      | 5260                    | 24.31                 | 22.34   |
| 60      | 5300                    | 23.91                 | 25.26   |
| 64      | 5320                    | 22.28                 | 22.28   |
| 100     | 5500                    | 22.26                 | 22.36   |
| 116     | 5580                    | 22.64                 | 27.70   |
| 132     | 5660                    | 23.98                 | 26.01   |
| 140     | 5700                    | 22.45                 | 21.95   |

**Note: For output power limitation is determined based on 26dBc bandwidth.**

| Power Limit = 4dBm + 10logB < UNII Band 1 >    |            |             |                                  |
|------------------------------------------------|------------|-------------|----------------------------------|
| Channel Number                                 | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 36                                             | 5180       | 22.22       | 17.46 > 17                       |
| 40                                             | 5200       | 22.12       | 17.44 > 17                       |
| 48                                             | 5240       | 22.06       | 17.43 > 17                       |
| Power Limit = 11dBm + 10logB < UNII Band 2~3 > |            |             |                                  |
| Channel Number                                 | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 52                                             | 5260       | 22.34       | 24.49 > 24                       |
| 60                                             | 5300       | 23.91       | 24.78 > 24                       |
| 64                                             | 5320       | 22.28       | 24.47 > 24                       |
| 100                                            | 5500       | 22.26       | 24.47 > 24                       |
| 116                                            | 5580       | 22.64       | 24.54 > 24                       |
| 132                                            | 5660       | 23.98       | 24.79 > 24                       |
| 140                                            | 5700       | 21.95       | 24.41 > 24                       |

# 802.11ac(VHT40), 2Tx POWER OUTPUT

| CHAN. | CHAN. FREQ. (MHz) | AVERAGE POWER (dBm) |         | TOTAL POWER (mW) | TOTAL POWER (dBm) | POWER LIMIT (dBm) | PASS / FAIL |
|-------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|       |                   | CHAIN 0             | CHAIN 1 |                  |                   |                   |             |
| 38    | 5190              | 10.31               | 9.94    | 20.603           | 13.14             | 14.99             | PASS        |
| 46    | 5230              | 11.36               | 11.65   | 28.299           | 14.52             | 14.99             | PASS        |
| 54    | 5270              | 17.34               | 17.66   | 112.545          | 20.51             | 21.99             | PASS        |
| 62    | 5310              | 10.72               | 8.61    | 19.064           | 12.80             | 21.99             | PASS        |
| 102   | 5510              | 11.75               | 11.92   | 30.522           | 14.85             | 21.99             | PASS        |
| 110   | 5550              | 18.12               | 18.74   | 139.680          | 21.45             | 21.99             | PASS        |
| 134   | 5670              | 15.35               | 14.63   | 63.317           | 18.02             | 21.99             | PASS        |

- NOTE:**
1. 5150~5250MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power limit shall be reduced to 17-(8.01-6) = 14.99dBm.
  2. 5250~5350MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power limit shall be reduced to 24-(8.01-6) = 21.99dBm.
  3. 5470~5725MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power limit shall be reduced to 24-(8.01-6) = 21.99dBm.

## 26dB OCCUPIED BANDWIDTH

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) |         |
|---------|-------------------------|-----------------------|---------|
|         |                         | CHAIN 0               | CHAIN 1 |
| 38      | 5190                    | 45.68                 | 45.22   |
| 46      | 5230                    | 45.27                 | 45.47   |
| 54      | 5270                    | 48.88                 | 45.86   |
| 62      | 5310                    | 45.75                 | 45.57   |
| 102     | 5510                    | 44.95                 | 45.31   |
| 110     | 5550                    | 56.07                 | 61.47   |
| 134     | 5670                    | 45.32                 | 45.58   |

**Note:** For output power limitation is determined based on 26dBc bandwidth.

| Power Limit = 4dBm + 10logB < UNII Band 1 >    |            |             |                                  |
|------------------------------------------------|------------|-------------|----------------------------------|
| Channel Number                                 | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 38                                             | 5190       | 45.22       | 20.55 > 17                       |
| 46                                             | 5230       | 45.27       | 20.55 > 17                       |
| Power Limit = 11dBm + 10logB < UNII Band 2~3 > |            |             |                                  |
| Channel Number                                 | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 54                                             | 5270       | 45.86       | 27.61 > 24                       |
| 62                                             | 5310       | 45.57       | 27.58 > 24                       |
| 102                                            | 5510       | 44.95       | 27.52 > 24                       |
| 110                                            | 5550       | 56.07       | 28.48 > 24                       |
| 134                                            | 5670       | 45.32       | 27.56 > 24                       |

## 802.11ac(VHT80), 2Tx

### POWER OUTPUT

| CHAN. | CHAN. FREQ. (MHz) | AVERAGE POWER (dBm) |         | TOTAL POWER (mW) | TOTAL POWER (dBm) | POWER LIMIT (dBm) | PASS / FAIL |
|-------|-------------------|---------------------|---------|------------------|-------------------|-------------------|-------------|
|       |                   | CHAIN 0             | CHAIN 1 |                  |                   |                   |             |
| 42    | 5210              | 9.87                | 9.73    | 19.102           | 12.81             | 14.99             | PASS        |
| 52    | 5290              | 7.83                | 7.86    | 12.176           | 10.86             | 21.99             | PASS        |
| 106   | 5530              | 11.12               | 11.64   | 27.530           | 14.40             | 21.99             | PASS        |

- NOTE:**
1. 5150~5250MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power limit shall be reduced to 17-(8.01-6) = 14.99dBm.
  2. 5250~5350MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power limit shall be reduced to 24-(8.01-6) = 21.99dBm.
  3. 5470~5725MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power limit shall be reduced to 24-(8.01-6) = 21.99dBm.

### 26dB OCCUPIED BANDWIDTH

| CHANNEL | CHANNEL FREQUENCY (MHz) | 26dBc BANDWIDTH (MHz) |         |
|---------|-------------------------|-----------------------|---------|
|         |                         | CHAIN 0               | CHAIN 1 |
| 42      | 5210                    | 82.94                 | 83.06   |
| 52      | 5290                    | 82.79                 | 83.04   |
| 106     | 5530                    | 83.08                 | 83.04   |

**Note: For output power limitation is determined based on 26dBc bandwidth.**

| Power Limit = 4dBm + 10logB < UNII Band 1 >    |            |             |                                  |
|------------------------------------------------|------------|-------------|----------------------------------|
| Channel Number                                 | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 42                                             | 5210       | 82.94       | 23.18 > 17                       |
| Power Limit = 11dBm + 10logB < UNII Band 2~3 > |            |             |                                  |
| Channel Number                                 | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 52                                             | 5290       | 82.79       | 30.17 > 24                       |
| 106                                            | 5530       | 83.04       | 30.19 > 24                       |

#### 4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

##### 4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

| Frequency Band   | Limit |
|------------------|-------|
| 5.15 ~ 5.25GHz   | 4dBm  |
| 5.25 ~ 5.35GHz   | 11dBm |
| 5.47 ~ 5.725GHz  | 11dBm |
| 5.725 ~ 5.825GHz | 17dBm |

##### 4.4.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|----------------------------|-----------|------------|-----------------|------------------|
| R&S Spectrum Analyzer      | FSP40     | 100036     | Jan. 21, 2013   | Jan. 20, 2014    |

**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. Tested date : Jan. 14 to 16, 2014

##### 4.4.3 TEST PROCEDURES

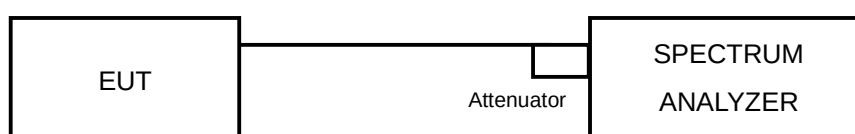
Using method SA-1

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

##### 4.4.4 DEVIATION FROM TEST STANDARD

No deviation

##### 4.4.5 TEST SETUP



#### 4.4.6 EUT OPERATING CONDITIONS

Same as 4.3.6

#### 4.4.7 TEST RESULTS

##### 802.11a, 1Tx

| CHANNEL | FREQUENCY (MHz) | PSD (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---------|-----------------|-----------|---------------------|-----------|
| 36      | 5180            | 3.52      | 4                   | PASS      |
| 40      | 5200            | 3.57      | 4                   | PASS      |
| 48      | 5240            | 3.76      | 4                   | PASS      |
| 52      | 5260            | 7.54      | 11                  | PASS      |
| 60      | 5300            | 6.05      | 11                  | PASS      |
| 64      | 5320            | 2.75      | 11                  | PASS      |
| 100     | 5500            | 4.81      | 11                  | PASS      |
| 116     | 5580            | 7.24      | 11                  | PASS      |
| 132     | 5660            | 6.36      | 11                  | PASS      |
| 140     | 5700            | 3.43      | 11                  | PASS      |

##### 802.11ac (VHT20), 1Tx

| CHANNEL | FREQUENCY (MHz) | PSD (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---------|-----------------|-----------|---------------------|-----------|
| 36      | 5180            | 1.04      | 4                   | PASS      |
| 40      | 5200            | 2.29      | 4                   | PASS      |
| 48      | 5240            | 2.57      | 4                   | PASS      |

##### 802.11ac (VHT40), 1Tx

| CHANNEL | FREQUENCY (MHz) | PSD (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---------|-----------------|-----------|---------------------|-----------|
| 38      | 5190            | -6.22     | 4                   | PASS      |
| 46      | 5230            | 0.47      | 4                   | PASS      |

##### 802.11ac (VHT80), 1Tx

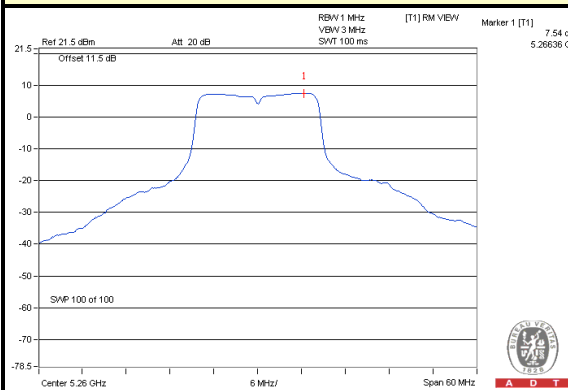
| CHANNEL | FREQUENCY (MHz) | PSD (dBm) | MAXIMUM LIMIT (dBm) | PASS/FAIL |
|---------|-----------------|-----------|---------------------|-----------|
| 42      | 5210            | -7.67     | 4                   | PASS      |



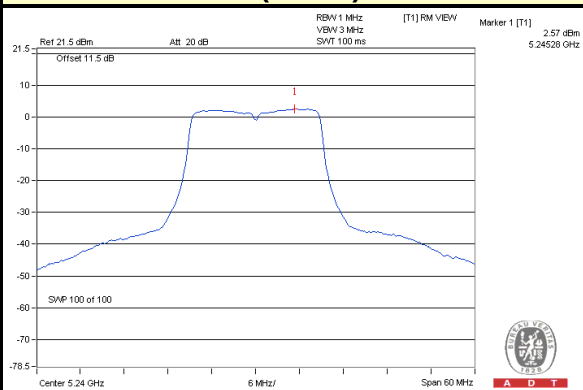
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## SPECTRUM PLOT OF WORST VALUE

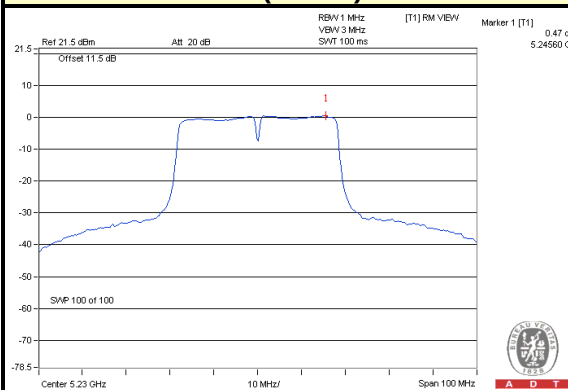
802.11a / CH52



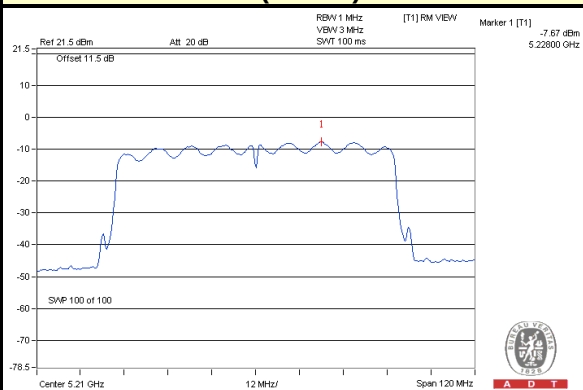
802.11ac (VHT20) / CH48



802.11ac (VHT40) / CH46



802.11ac (VHT80) / CH42



### 802.11a, 2Tx

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | PSD (dBm) |         | TOTAL<br>POWER<br>DENSITY<br>(dBm) | MAX. LIMIT<br>(dBm) | PASS/FAIL |
|---------|-------------------------------|-----------|---------|------------------------------------|---------------------|-----------|
|         |                               | CHAIN 0   | CHAIN 1 |                                    |                     |           |
| 36      | 5180                          | -2.96     | -2.46   | 0.31                               | 1.99                | PASS      |
| 40      | 5200                          | -3.64     | -2.38   | 0.05                               | 1.99                | PASS      |
| 48      | 5240                          | -2.45     | -3.08   | 0.26                               | 1.99                | PASS      |
| 52      | 5260                          | 4.78      | 4.25    | 7.53                               | 8.99                | PASS      |
| 60      | 5300                          | 4.41      | 4.43    | 7.43                               | 8.99                | PASS      |
| 64      | 5320                          | 1.62      | 0.29    | 4.02                               | 8.99                | PASS      |
| 100     | 5500                          | 3.82      | 3.05    | 6.46                               | 8.99                | PASS      |
| 116     | 5580                          | 5.82      | 5.72    | 8.78                               | 8.99                | PASS      |
| 132     | 5660                          | 4.60      | 4.67    | 7.65                               | 8.99                | PASS      |
| 140     | 5700                          | 1.59      | 1.38    | 4.50                               | 8.99                | PASS      |

- NOTE:** 1. Method 1) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5150~5250MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power density limit shall be reduced to 4-(8.01-6) = 1.99dBm.
3. 5250~5350MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power density limit shall be reduced to 11-(8.01-6) = 8.99dBm.
4. 5470~5725MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power density limit shall be reduced to 11-(8.01-6) = 8.99dBm.

### 802.11ac(VHT20), 2Tx

| CHANNEL | CHANNEL<br>FREQUENCY<br>(MHz) | PSD (dBm) |         | TOTAL<br>POWER<br>DENSITY<br>(dBm) | MAX. LIMIT<br>(dBm) | PASS/FAIL |
|---------|-------------------------------|-----------|---------|------------------------------------|---------------------|-----------|
|         |                               | CHAIN 0   | CHAIN 1 |                                    |                     |           |
| 36      | 5180                          | -2.69     | -3.01   | 0.16                               | 1.99                | PASS      |
| 40      | 5200                          | -2.19     | -2.51   | 0.66                               | 1.99                | PASS      |
| 48      | 5240                          | -2.20     | -2.45   | 0.69                               | 1.99                | PASS      |
| 52      | 5260                          | 4.45      | 3.92    | 7.20                               | 8.99                | PASS      |
| 60      | 5300                          | 4.20      | 4.39    | 7.31                               | 8.99                | PASS      |
| 64      | 5320                          | -0.14     | -0.75   | 2.58                               | 8.99                | PASS      |
| 100     | 5500                          | 2.11      | 2.14    | 5.14                               | 8.99                | PASS      |
| 116     | 5580                          | 5.08      | 5.62    | 8.37                               | 8.99                | PASS      |
| 132     | 5660                          | 4.23      | 4.37    | 7.31                               | 8.99                | PASS      |
| 140     | 5700                          | 2.24      | 1.48    | 4.89                               | 8.99                | PASS      |

- NOTE:** 1. Method 1) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5150~5250MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power density limit shall be reduced to 4-(8.01-6) = 1.99dBm.
3. 5250~5350MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power density limit shall be reduced to 11-(8.01-6) = 8.99dBm.
4. 5470~5725MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power density limit shall be reduced to 11-(8.01-6) = 8.99dBm.

### 802.11ac(VHT40), 2Tx

| CHANNEL | CHANNEL FREQUENCY (MHz) | PSD (dBm) |         | TOTAL POWER DENSITY (dBm) | MAX. LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-----------|---------|---------------------------|------------------|-----------|
|         |                         | CHAIN 0   | CHAIN 1 |                           |                  |           |
| 38      | 5190                    | -6.46     | -6.94   | -3.68                     | 1.99             | PASS      |
| 46      | 5230                    | -5.06     | -5.07   | -2.05                     | 1.99             | PASS      |
| 54      | 5270                    | 0.05      | -0.26   | 2.91                      | 8.99             | PASS      |
| 62      | 5310                    | -6.38     | -7.00   | -3.67                     | 8.99             | PASS      |
| 102     | 5510                    | -5.13     | -4.59   | -1.84                     | 8.99             | PASS      |
| 110     | 5550                    | 2.06      | 2.48    | 5.29                      | 8.99             | PASS      |
| 134     | 5670                    | -2.00     | -1.83   | 1.10                      | 8.99             | PASS      |

- NOTE:** 1. Method 1) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5150~5250MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power density limit shall be reduced to 4-(8.01-6) = 1.99dBm.
3. 5250~5350MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power density limit shall be reduced to 11-(8.01-6) = 8.99dBm.
4. 5470~5725MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power density limit shall be reduced to 11-(8.01-6) = 8.99dBm.

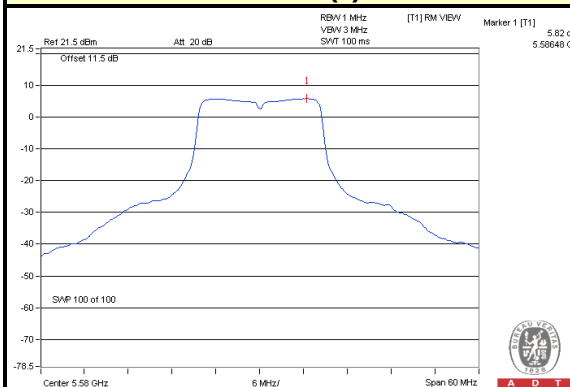
### 802.11ac(VHT80), 2Tx

| CHANNEL | CHANNEL FREQUENCY (MHz) | PSD (dBm) |         | TOTAL POWER DENSITY (dBm) | MAX. LIMIT (dBm) | PASS/FAIL |
|---------|-------------------------|-----------|---------|---------------------------|------------------|-----------|
|         |                         | CHAIN 0   | CHAIN 1 |                           |                  |           |
| 42      | 5210                    | -7.84     | -7.61   | -4.71                     | 1.99             | PASS      |
| 58      | 5290                    | -9.89     | -10.30  | -7.08                     | 8.99             | PASS      |
| 106     | 5530                    | -7.38     | -7.53   | -4.44                     | 8.99             | PASS      |

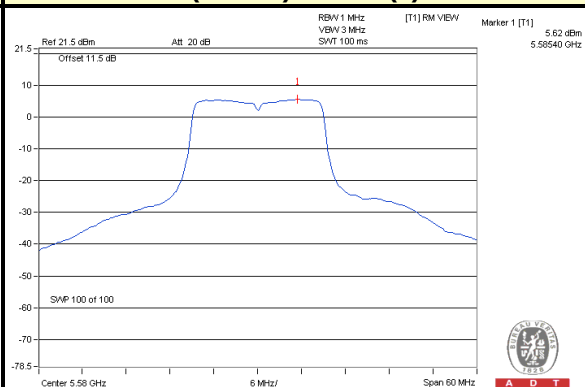
- NOTE:** 1. Method 1) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.
2. 5150~5250MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power density limit shall be reduced to 4-(8.01-6) = 1.99dBm.
3. 5250~5350MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power density limit shall be reduced to 11-(8.01-6) = 8.99dBm.
4. 5470~5725MHz: Directional gain = 5dBi + 10log(2) = 8.01dBi > 6dBi , so the power density limit shall be reduced to 11-(8.01-6) = 8.99dBm.

# SPECTRUM PLOT OF WORST VALUE

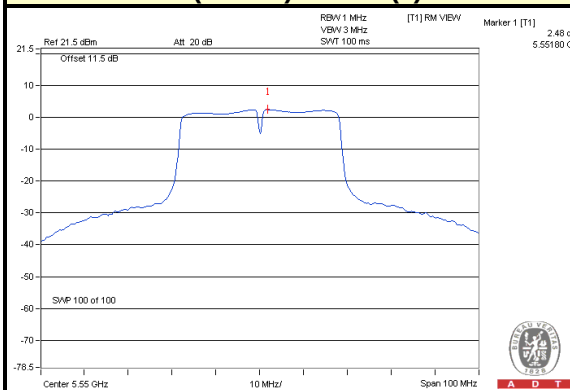
## 802.11a / Chain(0) : CH116



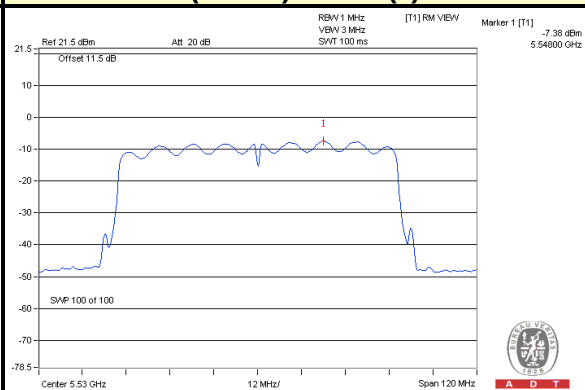
## 802.11ac (VHT20) / Chain(1) : CH116



## 802.11ac (VHT40) / Chain(1) : CH110



## 802.11ac (VHT80) / Chain(0) : CH106



## 4.5 PEAK POWER EXCURSION MEASUREMENT

### 4.5.1 LIMITS OF PEAK POWER EXCURSION MEASUREMENT

Shall not exceed 13 dB

### 4.5.2 TEST INSTRUMENTS

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|----------------------------|-----------|------------|-----------------|------------------|
| R&S Spectrum Analyzer      | FSP40     | 100036     | Jan. 21, 2013   | Jan. 20, 2014    |

**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. Tested date : Jan. 14 to 16, 2014

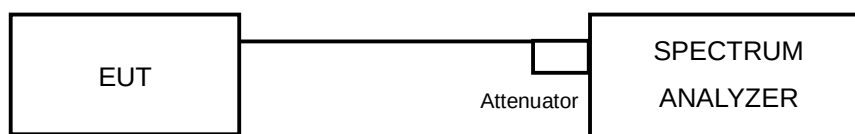
### 4.5.3 TEST PROCEDURE

1. Set RBW = 1 MHz, VBW  $\geq$  3 MHz, Detector = peak.
2. Trace mode = max-hold. Allow the sweeps to continue until the trace stabilizes.
3. Use the peak search function to find the peak of the spectrum.
4. Measure the PPSD.
5. Compute the ratio of the maximum of the peak-max-hold spectrum to the PPSD.

### 4.5.4 DEVIATION FROM TEST STANDARD

No deviation

### 4.5.5 TEST SETUP



### 4.5.6 EUT OPERATING CONDITIONS

The software provided by client to enable the EUT under transmission condition continuously at specific channel frequencies individually.

## 4.5.7 TEST RESULTS

### For 2Tx

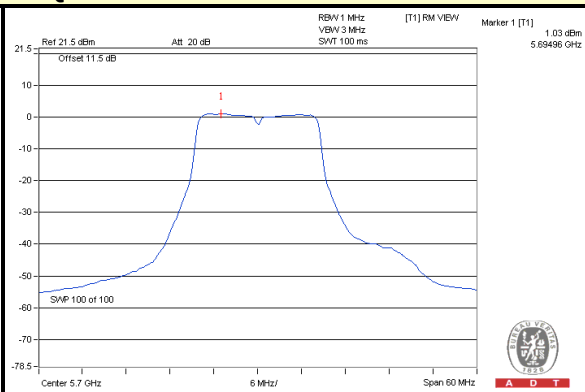
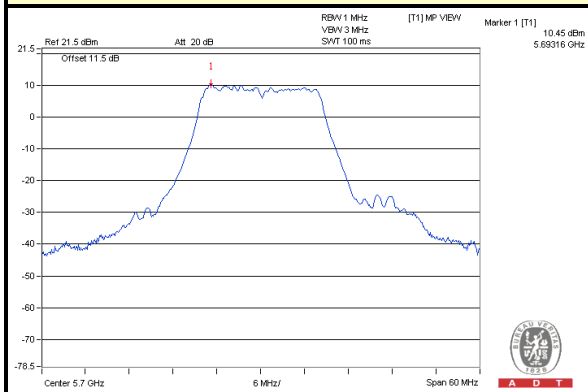
| MODULATION MODE  | MODULATION TYPE | CHANNEL FREQUENCY (MHz) | PEAK VALUE (dBm) | PPSD (dBm) | PEAK EXCURSION (dB) | LIMIT (dB) | PASS/ FAIL |
|------------------|-----------------|-------------------------|------------------|------------|---------------------|------------|------------|
| 802.11a          | BPSK            | 5700                    | 9.1              | 1.61       | 7.49                | 13         | PASS       |
|                  | QPSK            |                         | 10.18            | 1.18       | 9                   | 13         | PASS       |
|                  | 16QAM           |                         | 9.96             | 1.34       | 8.62                | 13         | PASS       |
|                  | 64QAM           |                         | 10.45            | 1.03       | 9.42                | 13         | PASS       |
| 802.11ac (VHT20) | BPSK            | 5700                    | 9.76             | 2.24       | 7.52                | 13         | PASS       |
|                  | QPSK            |                         | 10.46            | 2.13       | 8.33                | 13         | PASS       |
|                  | 16QAM           |                         | 11.04            | 1.94       | 9.1                 | 13         | PASS       |
|                  | 64QAM           |                         | 11.95            | 1.84       | 10.11               | 13         | PASS       |
|                  | 256QAM          |                         | 10.38            | 1.47       | 8.91                | 13         | PASS       |
| 802.11ac (VHT40) | BPSK            | 5670                    | 5.93             | -2         | 7.93                | 13         | PASS       |
|                  | QPSK            |                         | 6.45             | -2.25      | 8.7                 | 13         | PASS       |
|                  | 16QAM           |                         | 6.33             | -2.43      | 8.76                | 13         | PASS       |
|                  | 64QAM           |                         | 7.44             | -2.38      | 9.82                | 13         | PASS       |
|                  | 256QAM          |                         | 6.62             | -3.03      | 9.65                | 13         | PASS       |
| 802.11ac (VHT80) | BPSK            | 5530                    | 1.05             | -7.38      | 8.43                | 13         | PASS       |
|                  | QPSK            |                         | 0.77             | -7.5       | 8.27                | 13         | PASS       |
|                  | 16QAM           |                         | 1.58             | -7.54      | 9.12                | 13         | PASS       |
|                  | 64QAM           |                         | 0.68             | -7.77      | 8.45                | 13         | PASS       |
|                  | 256QAM          |                         | 1.45             | -7.37      | 8.82                | 13         | PASS       |



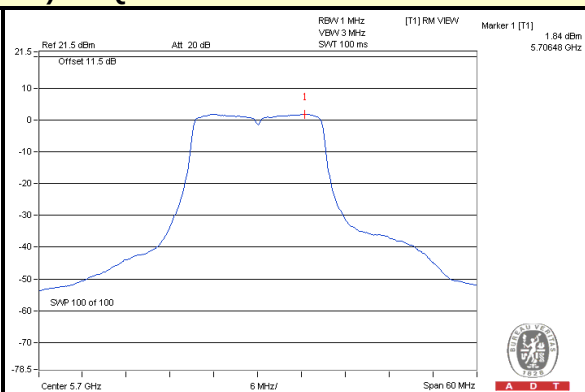
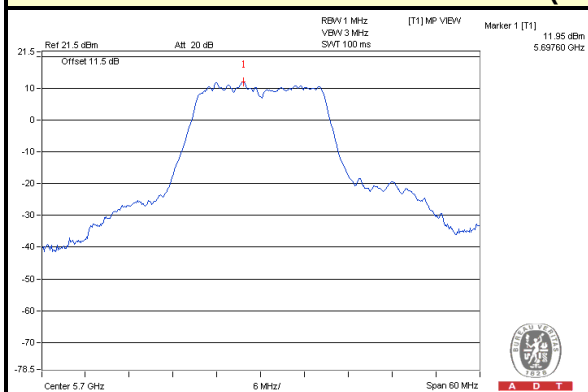
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## SPECTRUM PLOT OF WORST VALUE

### 802.11a / 64QAM



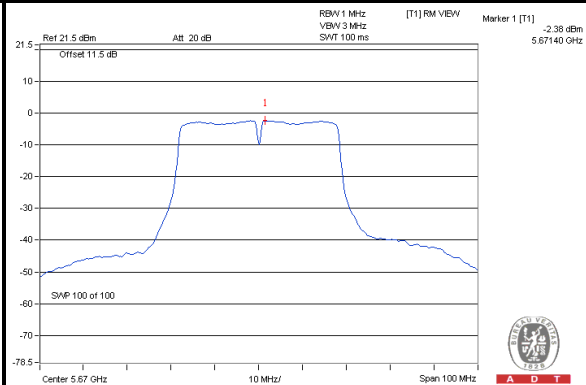
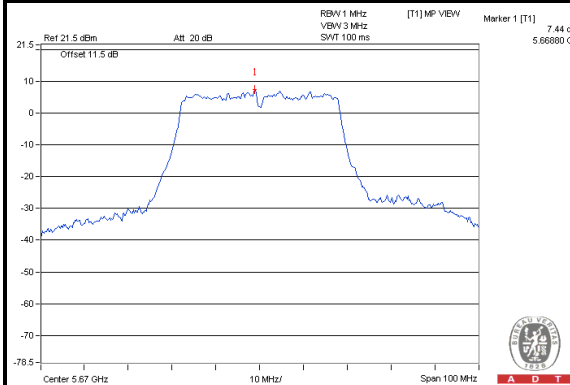
### 802.11ac (VHT20) / 64QAM



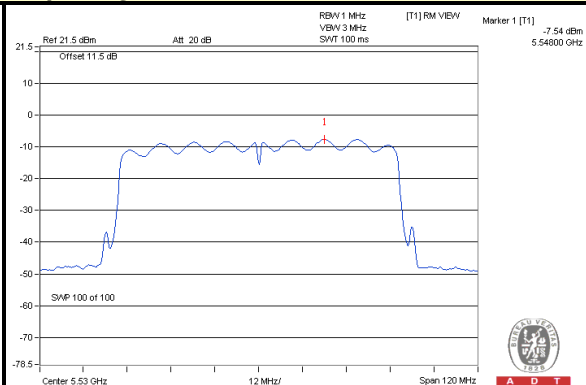
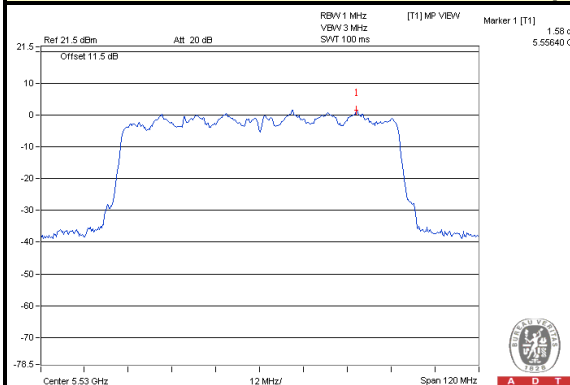


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### 802.11ac (VHT40) / 64QAM



### 802.11ac (VHT80) / 16QAM



## 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 INSTRUMENTS

| DESCRIPTION & MANUFACTURER                   | MODEL NO.            | SERIAL NO.  | CALIBRATED DATE | CALIBRATED UNTIL |
|----------------------------------------------|----------------------|-------------|-----------------|------------------|
| R&S Spectrum Analyzer                        | FSP40                | 100036      | Jan. 21, 2013   | Jan. 20, 2014    |
| Temperature & Humidity Chamber<br>GIANTFORCE | GTH-150-40-S<br>P-AR | MAA0812-008 | Jan. 17, 2013   | Jan. 16, 2014    |

**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. Tested date : Jan. 14 to 16, 2014

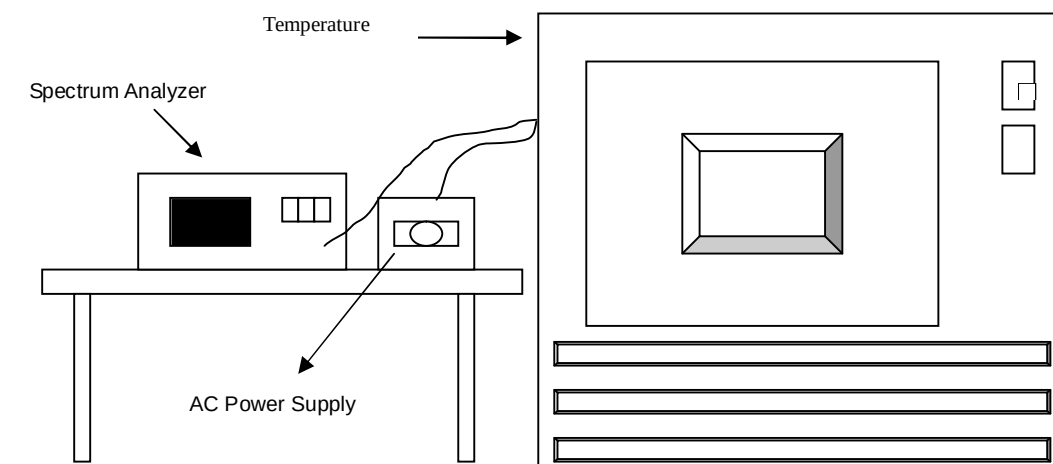
### 4.6.3 TEST PROCEDURE

1. The EUT was placed inside the environmental test chamber and powered by nominal AC voltage.
2. Turn the EUT on and couple its output to a spectrum analyzer.
3. Turn the EUT off and set the chamber to the highest temperature specified.
4. 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.
5. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature.
6. 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.

#### 4.6.4 DEVIATION FROM TEST STANDARD

No deviation

#### 4.6.5 TEST SETUP



#### 4.6.6 EUT OPERATING CONDITION

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

## 4.6.7 TEST RESULTS

### For 1Tx

| FREQUENCY STABILITY VERSUS TEMP. |                          |                       |                    |                       |                    |                       |                    |                       |                    |
|----------------------------------|--------------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|
| OPERATING FREQUENCY: 5320MHz     |                          |                       |                    |                       |                    |                       |                    |                       |                    |
| TEMP.<br>(°C)                    | POWER<br>SUPPLY<br>(Vac) | 0 MINUTE              |                    | 2 MINUTE              |                    | 5 MINUTE              |                    | 10 MINUTE             |                    |
|                                  |                          | Measured<br>Frequency | Frequency<br>Drift | Measured<br>Frequency | Frequency<br>Drift | Measured<br>Frequency | Frequency<br>Drift | Measured<br>Frequency | Frequency<br>Drift |
|                                  |                          | (MHz)                 | %                  | (MHz)                 | %                  | (MHz)                 | %                  | (MHz)                 | %                  |
| 50                               | 120                      | 5319.9749             | -0.00047           | 5319.9794             | -0.00039           | 5319.9805             | -0.00037           | 5319.9741             | -0.00049           |
| 40                               | 120                      | 5319.9809             | -0.00036           | 5319.9874             | -0.00024           | 5319.9805             | -0.00037           | 5319.9899             | -0.00019           |
| 30                               | 120                      | 5319.9702             | -0.00056           | 5319.9759             | -0.00045           | 5319.9736             | -0.00050           | 5319.979              | -0.00039           |
| 20                               | 120                      | 5319.9851             | -0.00028           | 5319.9808             | -0.00036           | 5319.9822             | -0.00033           | 5319.9812             | -0.00035           |
| 10                               | 120                      | 5320.0075             | 0.00014            | 5320.0096             | 0.00018            | 5320.0077             | 0.00014            | 5320.0048             | 0.00009            |
| 0                                | 120                      | 5319.975              | -0.00047           | 5319.9789             | -0.00040           | 5319.9707             | -0.00055           | 5319.9803             | -0.00037           |
| -10                              | 120                      | 5320.0131             | 0.00025            | 5320.0113             | 0.00021            | 5320.011              | 0.00021            | 5320.0046             | 0.00009            |
| -20                              | 120                      | 5320.0215             | 0.00040            | 5320.0258             | 0.00048            | 5320.0252             | 0.00047            | 5320.0208             | 0.00039            |
| -30                              | 120                      | 5319.9937             | -0.00012           | 5320.0039             | 0.00007            | 5319.9974             | -0.00005           | 5319.9978             | -0.00004           |

| FREQUENCY STABILITY VERSUS VOLTAGE |                          |                       |                    |                       |                    |                       |                    |                       |                    |
|------------------------------------|--------------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|-----------------------|--------------------|
| OPERATING FREQUENCY: 5320MHz       |                          |                       |                    |                       |                    |                       |                    |                       |                    |
| TEMP.<br>(°C)                      | POWER<br>SUPPLY<br>(Vac) | 0 MINUTE              |                    | 2 MINUTE              |                    | 5 MINUTE              |                    | 10 MINUTE             |                    |
|                                    |                          | Measured<br>Frequency | Frequency<br>Drift | Measured<br>Frequency | Frequency<br>Drift | Measured<br>Frequency | Frequency<br>Drift | Measured<br>Frequency | Frequency<br>Drift |
|                                    |                          | (MHz)                 | %                  | (MHz)                 | %                  | (MHz)                 | %                  | (MHz)                 | %                  |
| 20                                 | 138                      | 5319.986              | -0.00026           | 5319.9799             | -0.00038           | 5319.9818             | -0.00034           | 5319.9807             | -0.00036           |
|                                    | 120                      | 5319.9851             | -0.00028           | 5319.9808             | -0.00036           | 5319.9822             | -0.00033           | 5319.9812             | -0.00035           |
|                                    | 102                      | 5319.9858             | -0.00027           | 5319.9802             | -0.00037           | 5319.9829             | -0.00032           | 5319.9813             | -0.00035           |

## 5. PHOTOGRAPHS OF THE TEST CONFIGURATION

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



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## 6. 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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## **7.APPENDIX A - MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB**

No modifications were made to the EUT by the lab during the test.

**--- END ---**