# FCC Test Report (WLAN)

| | |
|---|---|
| **Report No.:** | RF150126E05K-1 |
| **FCC ID:** | TLZ-CM2XXNF |
| **Test Model:** | AW-CM195NF |
| **Series Model:** | AW-CM217NF, AW-CM235NF, AW-CM240NF |
| **Received Date:** | Aug. 17, 2018 |
| **Test Date:** | Oct. 02 to 31, 2018 |
| **Issued Date:** | Nov. 06, 2018 |
| **Applicant:** | AzureWave Technologies, Inc. |
| **Address:** | 8F., No.94, Baozhong Rd. , Xindian Dist., New Taipei City , Taiwan 231 |
| **Issued By:** | Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Hsin Chu Laboratory |
| **Lab Address:** | E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C. |
| **Test Location:** | E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C. |
| **FCC Registration / Designation Number:** | 723255 / TW2022 |

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## Release Control Record

| Issue No. | Description | Date Issued |
|---|---|---|
| RF150126E05K-1 | Original release. | Nov. 06, 2018 |

## 1 Certificate of Conformity

| | |
|---|---|
| **Product:** | IEEE 802.11 a/b/g/n/ac Wireless LAN and Bluetooth M.2 Combo Module |
| **Brand:** | AzureWave |
| **Test Model:** | AW-CM195NF |
| **Series Model:** | AW-CM217NF, AW-CM235NF, AW-CM240NF |
| **Sample Status:** | ENGINEERING SAMPLE |
| **Applicant:** | AzureWave Technologies, Inc. |
| **Test Date:** | Oct. 02 to 31, 2018 |
| **Standard:** | 47 CFR FCC Part 15, Subpart E (Section 15.407)<br>ANSI C63.10: 2013 |

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

**Prepared by :** _____ , **Date:** Nov. 06, 2018
Phoenix Huang / Specialist

**Approved by :** _____ , **Date:** Nov. 06, 2018
May Chen / Manager

## 2 Summary of Test Results

| 47 CFR FCC Part 15, Subpart E (Section 15.407) | | | |
|---|---|---|---|
| FCC Clause | Test Item | Result | Remarks |
| 15.407(b) (1/2/3/4(i/ii)/6) | Radiated Emissions & Band Edge Measurement* | Pass | Meet the requirement of limit. Minimum passing margin is -0.1dB at 5150.00MHz, 5350.00MHz, 5460.00MHz, 5470.00MHz and 5725.00MHz. |
| 15.407(a)(1/2/3) | Max Average Transmit Power | Pass | Meet the requirement of limit. |
| --- | Occupied Bandwidth Measurement | - | Reference only. |
| 15.407(a)(1/2/3) | Peak Power Spectral Density | Pass | Meet the requirement of limit. |
| 15.407(e) | 6dB bandwidth | Pass | Meet the requirement of limit. (U-NII-3 Band only) |

*For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOBE test plots were recorded in Annex A.

### 2.1 Measurement Uncertainty

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

| Measurement | Frequency | Expanded Uncertainty (k=2) (±) |
|---|---|---|
| Radiated Emissions up to 1 GHz | 30MHz ~ 1GHz | 5.33 dB |
| Radiated Emissions above 1 GHz | 1GHz ~ 6GHz | 5.10 dB |
| | 6GHz ~ 18GHz | 4.85 dB |
| | 18GHz ~ 40GHz | 5.24 dB |

### 2.2 Modification Record

There were no modifications required for compliance.

## 3 General Information

### 3.1 General Description of EUT (WLAN)

| | |
|---|---|
| Product | IEEE 802.11 a/b/g/n/ac Wireless LAN and Bluetooth M.2 Combo Module |
| Brand | AzureWave |
| Test Model | AW-CM195NF |
| Series Model | AW-CM217NF, AW-CM235NF, AW-CM240NF |
| Status of EUT | ENGINEERING SAMPLE |
| Power Supply Rating | 3.3Vdc from host equipment |
| Modulation Type | CCK, DQPSK, DBPSK for DSSS<br>64QAM, 16QAM, QPSK, BPSK for OFDM<br>256QAM for OFDM in 11ac mode and VHT20 and VHT40 mode of 2.4GHz Band |
| Modulation Technology | DSSS, OFDM |
| Transfer Rate | 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 |
| Operating Frequency | **2.4GHz:** 2.412 ~ 2.462GHz<br>**5GHz:** 5.18~ 5.24GHz, 5.26 ~ 5.32GHz, 5.50 ~ 5.70GHz, 5.745 ~ 5.825GHz |
| Number of Channel | **2.4GHz:**<br>802.11b, 802.11g, 802.11n (HT20), VHT20: 11<br>802.11n (HT40), VHT40: 7<br>**5GHz:**<br>802.11a, 802.11n (HT20), 802.11ac (VHT20): 24<br>802.11n (HT40), 802.11ac (VHT40): 11<br>802.11ac (VHT80): 5 |
| Output Power | **2.412 ~ 2.462GHz:** 430.629mW<br>**5.18 ~ 5.24GHz:** 175.268mW<br>**5.26 ~ 5.32GHz:** 173.966mW<br>**5.5 ~ 5.7GHz:** 175.508mW<br>**5.745 ~ 5.825GHz:** 164.255mW |
| Antenna Type | Refer to Note |
| Antenna Connector | Refer to Note |
| Accessory Device | NA |
| Data Cable Supplied | NA |

Note:

1. This report is prepared for FCC class II change. The difference compared with the Report No.: RF150126E05C as the following:
   - ◆ Upgraded standard version.
   - ◆ Added six sets of antennas as below table:

Original

| Antenna No | Chain No. | Brand | Model | Gain (dBi) | Antenna Type | Connector Type | Frequency range (GHz to GHz) | Cable Length (External only) |
|---|---|---|---|---|---|---|---|---|
| 1 | Chain (0) (Aux) | MAG.LAYERS | MSA-4008-25GC1-A1 | 2.98 | PIFA | i-pex(MHF4) | 2.4~2.5 | 15cm |
| | | | | 5.16 | | | 4.9~5.9 | |
| | Chain (1) (Main) | MAG.LAYERS | MSA-4008-25GC1-A1 | 2.98 | PIFA | i-pex(MHF4) | 2.4~2.5 | 15cm |
| | | | | 5.16 | | | 4.9~5.9 | |
| 2 | Chain (0) (Aux) | LUXSHARE ICT | Speedy | 1.43 | PIFA | i-pex(MHF4) | 2.4~2.5 | 507mm |
| | | | | -3.12 | | | 4.9~5.9 | |
| | Chain (1) (Main) | LUXSHARE ICT | Speedy | -2.46 | PIFA | i-pex(MHF4) | 2.4~2.5 | 472mm |
| | | | | -0.02 | | | 4.9~5.9 | |
| 3 | Chain (0) (Aux) | Amphenol | 867-00013 | -3.8 | PIFA | i-pex(MHF4) | 2.4~2.5 | 70mm |
| | | | | 3.5 | | | 4.9~5.9 | |
| | Chain (1) (Main) | Amphenol | 867-00014 | -5.1 | PIFA | i-pex(MHF4) | 2.4~2.5 | 220mm |
| | | | | 0.2 | | | 4.9~5.9 | |

Newly

| Antenna Set No | Chain No. | Brand | Model | Gain (dBi) Including cable loss | Cable Loss (dBi) | Antenna Type | Connector Type | Frequency range (GHz to GHz) | Cable Length (External only) |
|---|---|---|---|---|---|---|---|---|---|
| 4 | Chain (0) (Aux) | TONGDA | T-543-3010450-2 | -4.23 | 0.46 | PIFA | i-pex-MFH4 | 2.4~2.5 | 79.5mm |
| | | | | 5.15-5.35 GHz:2.13<br>5.47-5.725 GHz:-1.32<br>5.725-5.850 GHz:-2.77 | 0.73 | | | 4.9~5.9 | |
| | Chain (1) (Main) | TONGDA | T-543-3010450-1 | -4.56 | 0.28 | PIFA | i-pex-MFH4 | 2.4~2.5 | 43mm |
| | | | | 5.15-5.35 GHz:-3.53<br>5.47-5.725 GHz:-1.87<br>5.725-5.850 GHz:-1.87 | 0.44 | | | 4.9~5.9 | |
| 5 | Chain (0) (Aux) | HONGLIN | 260-26080 | -4.39 | 0.46 | PIFA | i-pex-MFH4 | 2.4~2.5 | 79.5mm |
| | | | | 5.15-5.35 GHz:1.29<br>5.47-5.725 GHz:0.41<br>5.725-5.850 GHz:-3.41 | 0.73 | | | 4.9~5.9 | |
| | Chain (1) (Main) | HONGLIN | 260-26079 | -4.71 | 0.28 | PIFA | i-pex-MFH4 | 2.4~2.5 | 43mm |
| | | | | 5.15-5.35 GHz:-3.73<br>5.47-5.725 GHz:-2.26<br>5.725-5.850 GHz:-2.23 | 0.44 | | | 4.9~5.9 | |
| 6 | Chain 0 (Aux) | Taoglas | GW20.54.0400A.km | 2.29 | NA | Dipole | IPEX MHF4L | 2400~2500 | 400mm |
| | | | | 1.73 | | | | 5150~5850 | |
| | Chain 1 (Main) | Taoglas | GW20.54.0400A.km | 2.29 | NA | Dipole | IPEX MHF4L | 2400~2500 | 400mm |
| | | | | 1.73 | | | | 5150~5850 | |
| 7 | Chain 0 (Aux) | Taoglas | GW20.54.0180A.km | 2.47 | NA | Dipole | IPEX MHF4L | 2400~2500 | 180mm |
| | | | | 2.62 | | | | 5150~5850 | |
| | Chain 1 (Main) | Taoglas | GW20.54.0180A.km | 2.47 | NA | Dipole | IPEX MHF4L | 2400~2500 | 180mm |
| | | | | 2.62 | | | | 5150~5850 | |
| 8 | Chain 0 (Aux) | Taoglas | GW20.54.0180A.km | 2.47 | NA | Dipole | IPEX MHF4L | 2400~2500 | 180mm |
| | | | | 2.62 | | | | 5150~5850 | |
| | Chain 1 (Main) | Taoglas | GW20.54.0400A.km | 2.29 | NA | Dipole | IPEX MHF4L | 2400~2500 | 400mm |
| | | | | 1.73 | | | | 5150~5850 | |
| 9 | Chain 0 (Aux) | Taoglas | GW20.54.0400A.km | 2.29 | NA | Dipole | IPEX MHF4L | 2400~2500 | 400mm |
| | | | | 1.73 | | | | 5150~5850 | |
| | Chain 1 (Main) | Taoglas | GW20.54.0180A.km | 2.47 | NA | Dipole | IPEX MHF4L | 2400~2500 | 180mm |
| | | | | 2.62 | | | | 5150~5850 | |

Note:
1. For radiated emission (below 1GHz), the Dipole (Antenna Set 7) was selected as representative adapter for the test and its data was recorded in this report.
2. For radiated emission (above 1GHz), the PIFA antenna (Antenna Set 1) and Dipole (Antenna Set 7) were selected as representative adapter for the test and its data was recorded in this report.

2. According to above conditions, the below test item need to be performed. And all data was verified to meet the requirements.
   - ◆ U-NII band 1, U-NII band 2A, U-NII band 2C: Radiated Emissions & Band Edge Measurement, Max Average Transmit Power and Occupied Bandwidth Measurement test item need to be performed.
   - ◆ U-NII band 3: All of test items need to be performed (except for AC Power Conducted Emissions and Frequency Stability test items). And all data was verified to meet the requirements.
3. There are Bluetooth technology and WLAN technology used for the EUT.
4. For WLAN, 2.4GHz and 5GHz technology can not transmit at same time.
5. WLAN (5GHz) and Bluetooth technology can transmit at same time.
6. The EUT has four model names which are identical to each other in all aspects except for the following table. These solutions have same RF circuit /parameter and are pin to pin compatible. (Detail information please refer declaration letter by client)

| AW model name | Difference. Broadcom solution |
|---|---|
| AW-CM195NF | BCM43540 |
| AW-CM217NF | BCM4356 |
| AW-CM235NF | BCM4354 |
| AW-CM240NF | BCM4356 (Change the Interface of PCIE+UART) |
| Note: In original report, from the above models, model: **AW-CM195NF** was selected as representative model for the test and its data was recorded in this report. | |

7. The EUT incorporates a MIMO function.

| **2.4GHz Band** | | | |
|---|---|---|---|
| **MODULATION MODE** | **DATA RATE (MCS)** | **TX & RX CONFIGURATION** | |
| **802.11b** | 1 ~ 11Mbps | 1TX (Diversity) | 1RX (Diversity) |
| **802.11g** | 6 ~ 54Mbps | 1TX (Diversity) | 1RX (Diversity) |
| **802.11n (HT20)** | MCS 0~7 | 1TX (Diversity) | 1RX (Diversity) |
| | MCS 8~15 | 2TX | 2RX |
| **802.11n (HT40)** | MCS 0~7 | 1TX (Diversity) | 1RX (Diversity) |
| | MCS 8~15 | 2TX | 2RX |
| **VHT20** | MCS0~8 Nss= 1 | 1TX (Diversity) | 1RX (Diversity) |
| | MCS0~8 Nss= 2 | 2TX | 2RX |
| **VHT40** | MCS0~9 Nss= 1 | 1TX (Diversity) | 1RX (Diversity) |
| | MCS0~9 Nss= 2 | 2TX | 2RX |

| 5GHz Band | | | |
|---|---|---|---|
| **MODULATION MODE** | **DATA RATE (MCS)** | **TX & RX CONFIGURATION** | |
| **802.11a** | 6 ~ 54Mbps | 1TX (Diversity) | 1RX (Diversity) |
| **802.11n (HT20)** | MCS 0~7 | 1TX (Diversity) | 1RX (Diversity) |
| | MCS 8~15 | 2TX | 2RX |
| **802.11n (HT40)** | MCS 0~7 | 1TX (Diversity) | 1RX (Diversity) |
| | MCS 8~15 | 2TX | 2RX |
| **802.11ac (VHT20)** | MCS0~8 Nss= 1 | 1TX (Diversity) | 1RX (Diversity) |
| | MCS0~8 Nss= 2 | 2TX | 2RX |
| **802.11ac (VHT40)** | MCS0~9 Nss= 1 | 1TX (Diversity) | 1RX (Diversity) |
| | MCS0~9 Nss= 2 | 2TX | 2RX |
| **802.11ac (VHT80)** | MCS0~9 Nss= 1 | 1TX (Diversity) | 1RX (Diversity) |
| | MCS0~9 Nss= 2 | 2TX | 2RX |
| Note: The device operate with two spatial stream (Nss = 2) with different data, and two signals are not correlated. | | | |

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

## 3.2 Description of Test Modes

**FOR 5180 ~ 5240MHz**

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

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

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

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

1 channel is provided for 802.11ac (VHT80):

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

**FOR 5260 ~ 5320MHz**

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

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

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

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

1 channel is provided for 802.11ac (VHT80):

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

**FOR 5500 ~ 5700MHz**

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

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

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

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

2 channels are provided for 802.11ac (VHT80):

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

**FOR 5745 ~ 5825MHz**

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

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

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

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

1 channel is provided for 802.11ac (VHT80):

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

### 3.2.1 Test Mode Applicability and Tested Channel Detail

| EUT Configure Mode | Applicable To | | | Description |
|---|---|---|---|---|
| | RE≥1G | RE<1G | APCM | |
| - | √ | √ | √ | - |

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

**Note:**
1. In the original report, 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 **Z-plane** (for above 1GHz).

**Radiated Emission Test (Above 1GHz):**

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

| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
|---|---|---|---|---|---|---|
| 802.11a | 5180-5240 | 36 to 48 | 36, 40, 48 | OFDM | BPSK | 6 |
| 802.11ac (VHT20) | | 36 to 48 | 36, 40, 48 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 38 to 46 | 38, 46 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 42 | 42 | OFDM | BPSK | 29.3 |
| 802.11a | 5260-5320 | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6 |
| 802.11ac (VHT20) | | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 54 to 62 | 54, 62 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 58 | 58 | OFDM | BPSK | 29.3 |
| 802.11a | 5500-5700 | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 6 |
| 802.11ac (VHT20) | | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 102 to 134 | 102, 110, 134 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 106 to 122 | 106, 122 | OFDM | BPSK | 29.3 |
| 802.11a | 5745-5825 | 149 to 165 | 149, 157, 165 | OFDM | BPSK | 6 |
| 802.11ac (VHT20) | | 149 to 165 | 149, 157, 165 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 151 to 159 | 151, 159 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 155 | 155 | OFDM | BPSK | 29.3 |

**Radiated Emission Test (Below 1GHz):**

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

| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
|---|---|---|---|---|---|---|
| 802.11ac (VHT40) | 5180-5320, 5500-5700, 5745-5825 | 36 to 64, 100 to 140, 149 to 165 | 110 | OFDM | BPSK | 13.5 |

## Antenna Port Conducted Measurement:

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

| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
|---|---|---|---|---|---|---|
| 802.11a | 5180-5240 | 36 to 48 | 36, 40, 48 | OFDM | BPSK | 6 |
| 802.11ac (VHT20) | | 36 to 48 | 36, 40, 48 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 38 to 46 | 38, 46 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 42 | 42 | OFDM | BPSK | 29.3 |
| 802.11a | 5260-5320 | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6 |
| 802.11ac (VHT20) | | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 54 to 62 | 54, 62 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 58 | 58 | OFDM | BPSK | 29.3 |
| 802.11a | 5500-5700 | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 6 |
| 802.11ac (VHT20) | | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 102 to 134 | 102, 110, 134 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 106 to 122 | 106, 122 | OFDM | BPSK | 29.3 |
| 802.11a | 5745-5825 | 149 to 165 | 149, 157, 165 | OFDM | BPSK | 6 |
| 802.11ac (VHT20) | | 149 to 165 | 149, 157, 165 | OFDM | BPSK | 6.5 |
| 802.11ac (VHT40) | | 151 to 159 | 151, 159 | OFDM | BPSK | 13.5 |
| 802.11ac (VHT80) | | 155 | 155 | OFDM | BPSK | 29.3 |

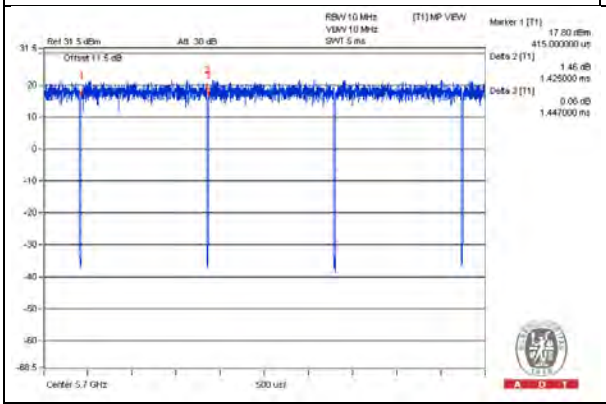
## Test Condition:

| Applicable To | Environmental Conditions | Input Power | Tested By |
|---|---|---|---|
| RE≥1G | 21deg. C, 63%RH | 120Vac, 60Hz (System) | Steven Chiang |
| | 23deg. C, 67%RH | 120Vac, 60Hz (System) | Steven Chiang |
| RE<1G | 23deg. C, 65%RH | 120Vac, 60Hz (System) | Steven Chiang |
| APCM | 25deg. C, 60%RH | 3.3Vdc | Steven Chiang |

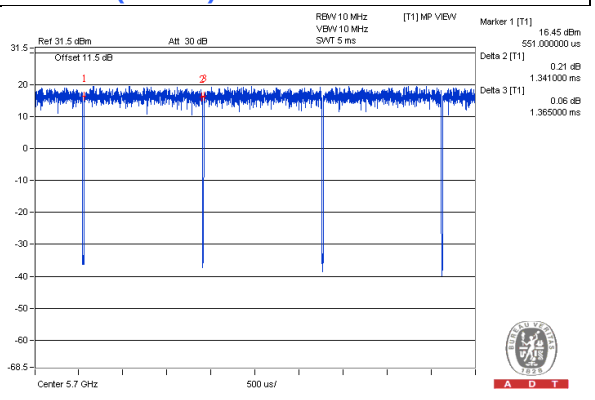
### 3.3 Duty Cycle of Test Signal

If duty cycle of test signal is ≥ 98 %, duty factor is not required.
If duty cycle of test signal is < 98%, duty factor shall be considered.
**802.11a**: Duty cycle = 1.425 ms/1.448 ms = 0.984
**802.11ac (VHT20)**: Duty cycle = 1.341 ms/1.362 ms = 0.985
**802.11ac (VHT40):** Duty cycle = 0.668 ms/0.687 ms = 0.972, Duty factor = 10 * log( 1/0.972) = 0.12
**802.11ac (VHT80):** Duty cycle = 0.333 ms/0.351 ms = 0.949, Duty factor = 10 * log( 1/0.949) = 0.23

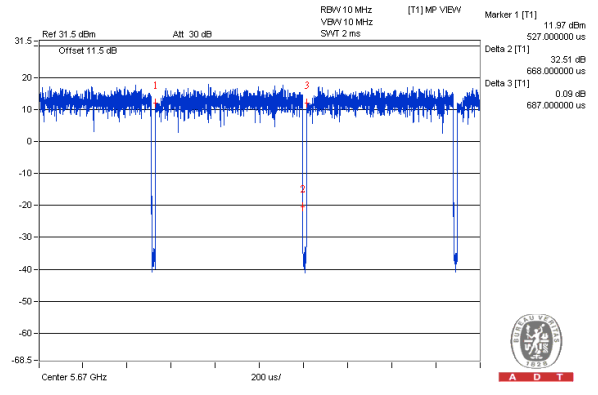
**802.11a**



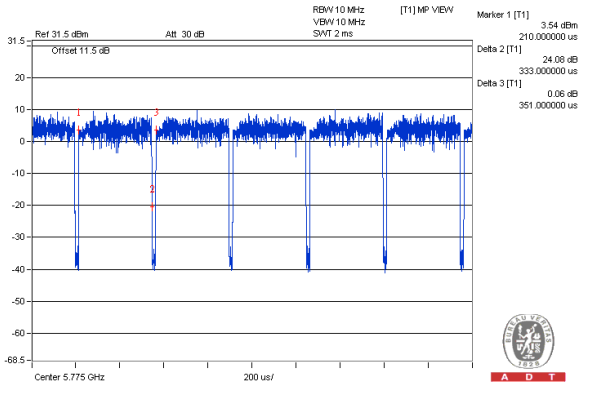

**802.11ac (VHT20)**




**802.11ac (VHT40)**




**802.11ac (VHT80)**



### 3.4 Description of Support Units

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

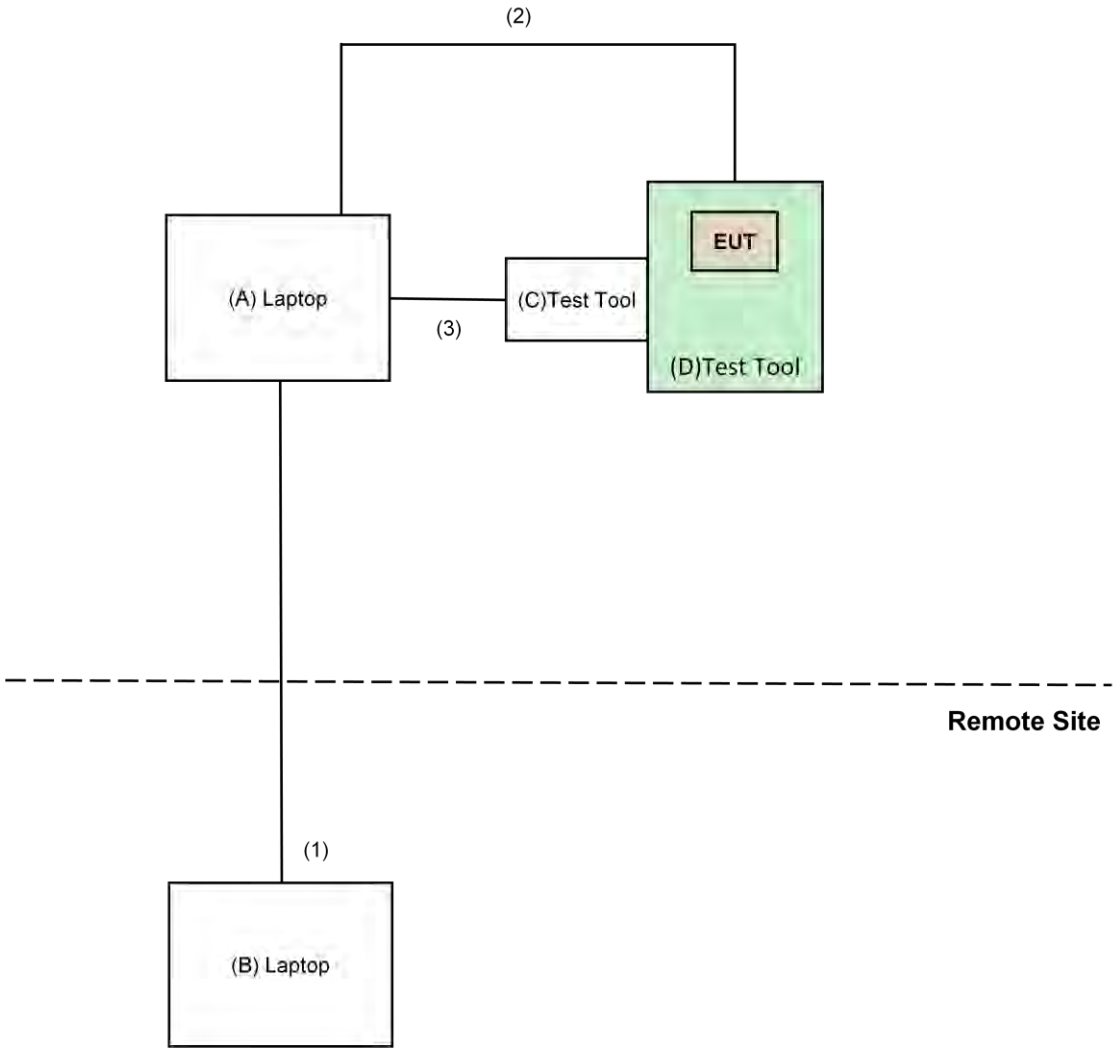
| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|---|---|---|---|---|---|---|
| A. | Laptop | HP | Pavilion 14-ab023TU | 5CD5340WXZ | NA | Provided by Lab |
| B. | Laptop | ASUS | AA2SJ.AVBoW202 | NA | NA | Supplied by client |
| C. | Test Tool | AzureWave | 9027-V01 | NA | NA | Supplied by client |
| D. | Test Tool | AzureWave | 2218-17 | NA | NA | Supplied by client |

Note:

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

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

3.4.1 Configuration of System under Test



### 3.5 General Description of Applied Standard

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

**FCC Part 15, Subpart E (15.407)**
**KDB 789033 D02 General UNII Test Procedure New Rules v02r01**
**KDB 662911 D01 Multiple Transmitter Output v02r01**
**ANSI C63.10-2013**

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

## 4 Test Types and Results

### 4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

**NOTE**:

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

Limits of unwanted emission out of the restricted bands

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

**Note:**

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

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

4.1.2 Test Instruments

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|---|---|---|---|
| Test Receiver Keysight | N9038A | MY54450088 | July 05, 2018 | July 04, 2019 |
| Pre-Amplifier EMCI | EMC001340 | 980142 | Feb. 09, 2018 | Feb. 08, 2019 |
| Loop Antenna(*) Electro-Metrics | EM-6879 | 264 | Dec. 16, 2016 | Dec. 15, 2018 |
| RF Cable | NA | LOOPCAB-001 | Jan. 15, 2018 | Jan. 14, 2019 |
| RF Cable | NA | LOOPCAB-002 | Jan. 15, 2018 | Jan. 14, 2019 |
| Pre-Amplifier Mini-Circuits | ZFL-1000VH2B | AMP-ZFL-01 | Nov. 09, 2017 | Nov. 08, 2018 |
| Trilog Broadband Antenna SCHWARZBECK | VULB 9168 | 9168-406 | Nov. 29, 2017 | Nov. 28, 2018 |
| RF Cable | 8D | 966-4-1 | Mar. 21, 2018 | Mar. 20, 2019 |
| RF Cable | 8D | 966-4-2 | Mar. 21, 2018 | Mar. 20, 2019 |
| RF Cable | 8D | 966-4-3 | Mar. 21, 2018 | Mar. 20, 2019 |
| Fixed attenuator Mini-Circuits | UNAT-5+ | PAD-3m-4-01 | Sep. 27, 2018 | Sep. 26, 2019 |
| Horn_Antenna SCHWARZBECK | BBHA 9120D | 9120D-783 | Dec. 12, 2017 | Dec. 11, 2018 |
| Pre-Amplifier Mini-Circuits | ZVA-183-S+ | AMP-ZVA-03 | May 10, 2018 | May 09, 2019 |
| RF Cable | EMC104-SM-SM-1200 | 160923 | Jan. 29, 2018 | Jan. 28, 2019 |
| RF Cable | EMC104-SM-SM-2000 | 150318 | Jan. 29, 2018 | Jan. 28, 2019 |
| RF Cable | EMC104-SM-SM-5000 | 150321 | Jan. 29, 2018 | Jan. 28, 2019 |
| Pre-Amplifier EMCI | EMC184045SE | 980387 | Jan. 29, 2018 | Jan. 28, 2019 |
| Horn_Antenna SCHWARZBECK | BBHA 9170 | BBHA9170608 | Dec. 14, 2017 | Dec. 13, 2018 |
| RF Cable | EMC102-KM-KM-1200 | 160925 | Jan. 29, 2018 | Jan. 28, 2019 |
| Software | ADT_Radiated_V8.7.08 | NA | NA | NA |
| Boresight Antenna Tower & Turn Table Max-Full | MF-7802BS | MF780208530 | NA | NA |
| Spectrum Analyzer R&S | FSV40 | 100964 | June 20, 2018 | June 19, 2019 |
| Power meter Anritsu | ML2495A | 1014008 | May 09, 2018 | May 08, 2019 |
| Power sensor Anritsu | MA2411B | 0917122 | May 09, 2018 | May 08, 2019 |

**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 calibration interval of the above test instruments is 24 months and the calibrations are traceable to NML/ROC and NIST/USA.
3. The test was performed in 966 Chamber No. 4.
4. The CANADA Site Registration No. is 20331-2
5. Loop antenna was used for all emissions below 30 MHz.
6. Tested Date: Oct. 02 to 31, 2018

4.1.3 Test Procedure

**For Radiated emission below 30MHz**

a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter chamber room. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. Parallel, perpendicular, and ground-parallel orientations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

**Note:**

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

**For Radiated emission above 30MHz**

a. The EUT was placed on the top of a rotating table 0.8 meters (for 30MHz ~ 1GHz) / 1.5 meters (for above 1GHz) above the ground at 3 meter chamber room for test. The table was rotated 360 degrees to determine the position of the highest radiation.

b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

c. The height of antenna is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.

d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.

e. The test-receiver system was set to quasi-peak detect function and specified bandwidth with maximum hold mode when the test frequency is below 1 GHz.

f. The test-receiver system was set to peak and average detects function and specified bandwidth with maximum hold mode when the test frequency is above 1 GHz. If the peak reading value also meets average limit, measurement with the average detector is unnecessary.

**Note:**

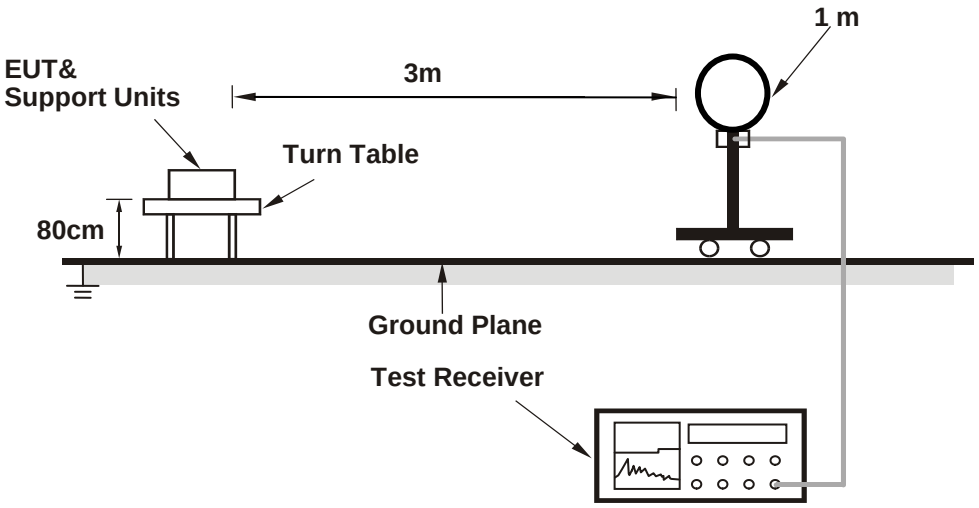
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Deviation from Test Standard

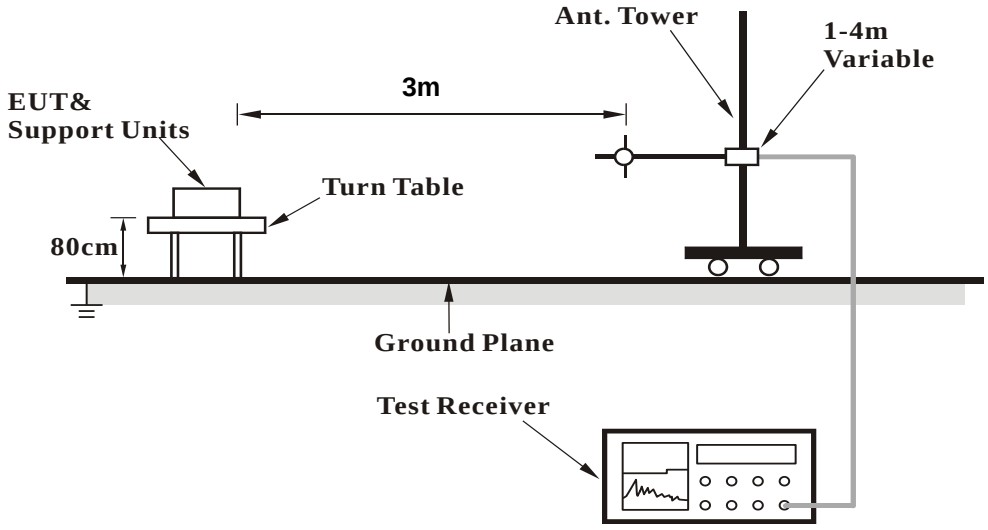
No deviation.

4.1.5 Test Setup

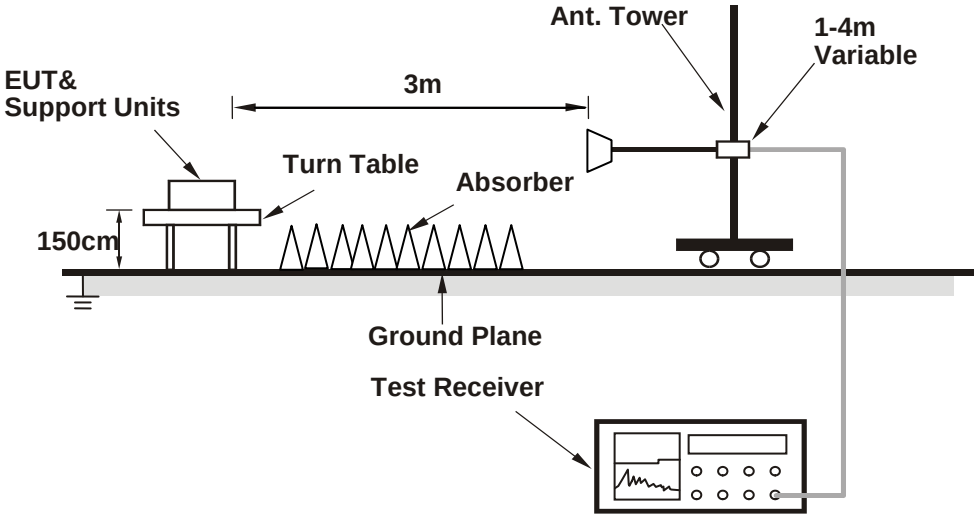
**For Radiated emission below 30MHz**




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



**For Radiated emission above 1GHz**




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

4.1.6 EUT Operating Condition

a. Connected the EUT with the Laptop which is placed on the testing table.
b. Controlling software (wl.exe[paste XXX.sh command]) has been activated to set the EUT on specific status.

4.1.7 Test Results (PIFA Antenna)

**Above 1GHz Data:**

**802.11a**

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **NO.** | **FREQ. (MHz)** | **EMISSION LEVEL (dBuV/m)** | **LIMIT (dBuV/m)** | **MARGIN (dB)** | **ANTENNA HEIGHT (m)** | **TABLE ANGLE (Degree)** | **RAW VALUE (dBuV)** | **CORRECTION FACTOR (dB/m)** |
| 1 | 5150.00 | 68.2 PK | 74.0 | -5.8 | 1.63 H | 244 | 65.2 | 3.0 |
| 2 | 5150.00 | 53.4 AV | 54.0 | -0.6 | 1.63 H | 244 | 50.4 | 3.0 |
| 3 | *5180.00 | 107.3 PK | | | 1.63 H | 244 | 104.5 | 2.8 |
| 4 | *5180.00 | 99.8 AV | | | 1.63 H | 244 | 97.0 | 2.8 |
| 5 | #10360.00 | 53.5 PK | 68.2 | -14.7 | 1.66 H | 258 | 41.1 | 12.4 |
| 6 | 15540.00 | 59.1 PK | 74.0 | -14.9 | 1.76 H | 340 | 46.3 | 12.8 |
| 7 | 15540.00 | 47.1 AV | 54.0 | -6.9 | 1.76 H | 340 | 34.3 | 12.8 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| **NO.** | **FREQ. (MHz)** | **EMISSION LEVEL (dBuV/m)** | **LIMIT (dBuV/m)** | **MARGIN (dB)** | **ANTENNA HEIGHT (m)** | **TABLE ANGLE (Degree)** | **RAW VALUE (dBuV)** | **CORRECTION FACTOR (dB/m)** |
| 1 | 5150.00 | 66.4 PK | 74.0 | -7.6 | 1.95 V | 166 | 63.4 | 3.0 |
| 2 | 5150.00 | 52.5 AV | 54.0 | -1.5 | 1.95 V | 166 | 49.5 | 3.0 |
| 3 | *5180.00 | 104.7 PK | | | 1.95 V | 166 | 101.9 | 2.8 |
| 4 | *5180.00 | 96.8 AV | | | 1.95 V | 166 | 94.0 | 2.8 |
| 5 | #10360.00 | 53.2 PK | 68.2 | -15.0 | 1.65 V | 237 | 40.8 | 12.4 |
| 6 | 15540.00 | 61.0 PK | 74.0 | -13.0 | 1.53 V | 125 | 48.2 | 12.8 |
| 7 | 15540.00 | 48.0 AV | 54.0 | -6.0 | 1.53 V | 125 | 35.2 | 12.8 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 69.1 PK | 74.0 | -4.9 | 1.65 H | 234 | 66.1 | 3.0 |
| 2 | 5150.00 | 52.8 AV | 54.0 | -1.2 | 1.65 H | 234 | 49.8 | 3.0 |
| 3 | *5200.00 | 109.2 PK | | | 1.65 H | 234 | 106.5 | 2.7 |
| 4 | *5200.00 | 100.9 AV | | | 1.65 H | 234 | 98.2 | 2.7 |
| 5 | #10400.00 | 53.3 PK | 68.2 | -14.9 | 1.64 H | 266 | 40.8 | 12.5 |
| 6 | 15600.00 | 59.5 PK | 74.0 | -14.5 | 1.74 H | 330 | 46.7 | 12.8 |
| 7 | 15600.00 | 47.2 AV | 54.0 | -6.8 | 1.74 H | 330 | 34.4 | 12.8 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 67.4 PK | 74.0 | -6.6 | 1.92 V | 178 | 64.4 | 3.0 |
| 2 | 5150.00 | 51.8 AV | 54.0 | -2.2 | 1.92 V | 178 | 48.8 | 3.0 |
| 3 | *5200.00 | 107.4 PK | | | 1.92 V | 178 | 104.7 | 2.7 |
| 4 | *5200.00 | 99.6 AV | | | 1.92 V | 178 | 96.9 | 2.7 |
| 5 | #10400.00 | 53.9 PK | 68.2 | -14.3 | 1.71 V | 236 | 41.4 | 12.5 |
| 6 | 15600.00 | 60.7 PK | 74.0 | -13.3 | 1.54 V | 132 | 47.9 | 12.8 |
| 7 | 15600.00 | 48.2 AV | 54.0 | -5.8 | 1.54 V | 132 | 35.4 | 12.8 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5240.00 | 110.7 PK | | | 1.66 H | 245 | 108.2 | 2.5 |
| 2 | *5240.00 | 101.6 AV | | | 1.66 H | 245 | 99.1 | 2.5 |
| 3 | 5350.00 | 56.0 PK | 74.0 | -18.0 | 1.66 H | 245 | 53.4 | 2.6 |
| 4 | 5350.00 | 41.2 AV | 54.0 | -12.8 | 1.66 H | 245 | 38.6 | 2.6 |
| 5 | #10480.00 | 54.0 PK | 68.2 | -14.2 | 1.70 H | 247 | 41.0 | 13.0 |
| 6 | 15720.00 | 59.5 PK | 74.0 | -14.5 | 1.80 H | 347 | 47.1 | 12.4 |
| 7 | 15720.00 | 47.3 AV | 54.0 | -6.7 | 1.80 H | 347 | 34.9 | 12.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5240.00 | 108.6 PK | | | 2.00 V | 163 | 106.1 | 2.5 |
| 2 | *5240.00 | 100.5 AV | | | 2.00 V | 163 | 98.0 | 2.5 |
| 3 | 5350.00 | 56.2 PK | 74.0 | -17.8 | 2.00 V | 163 | 53.6 | 2.6 |
| 4 | 5350.00 | 40.7 AV | 54.0 | -13.3 | 2.00 V | 163 | 38.1 | 2.6 |
| 5 | #10480.00 | 53.9 PK | 68.2 | -14.3 | 1.59 V | 223 | 40.9 | 13.0 |
| 6 | 15720.00 | 60.8 PK | 74.0 | -13.2 | 1.59 V | 117 | 48.4 | 12.4 |
| 7 | 15720.00 | 48.2 AV | 54.0 | -5.8 | 1.59 V | 117 | 35.8 | 12.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 56.7 PK | 74.0 | -17.3 | 1.60 H | 232 | 53.7 | 3.0 |
| 2 | 5150.00 | 41.7 AV | 54.0 | -12.3 | 1.60 H | 232 | 38.7 | 3.0 |
| 3 | *5260.00 | 110.0 PK | | | 1.60 H | 232 | 107.6 | 2.4 |
| 4 | *5260.00 | 101.2 AV | | | 1.60 H | 232 | 98.8 | 2.4 |
| 5 | #10520.00 | 54.7 PK | 68.2 | -13.5 | 1.63 H | 248 | 41.8 | 12.9 |
| 6 | 15780.00 | 59.0 PK | 74.0 | -15.0 | 1.81 H | 335 | 46.5 | 12.5 |
| 7 | 15780.00 | 47.1 AV | 54.0 | -6.9 | 1.81 H | 335 | 34.6 | 12.5 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 56.1 PK | 74.0 | -17.9 | 1.96 V | 158 | 53.1 | 3.0 |
| 2 | 5150.00 | 40.7 AV | 54.0 | -13.3 | 1.96 V | 158 | 37.7 | 3.0 |
| 3 | *5260.00 | 107.3 PK | | | 1.96 V | 158 | 104.9 | 2.4 |
| 4 | *5260.00 | 99.7 AV | | | 1.96 V | 158 | 97.3 | 2.4 |
| 5 | #10520.00 | 53.4 PK | 68.2 | -14.8 | 1.69 V | 234 | 40.5 | 12.9 |
| 6 | 15780.00 | 61.1 PK | 74.0 | -12.9 | 1.53 V | 127 | 48.6 | 12.5 |
| 7 | 15780.00 | 48.2 AV | 54.0 | -5.8 | 1.53 V | 127 | 35.7 | 12.5 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5300.00 | 109.6 PK | | | 1.57 H | 239 | 107.1 | 2.5 |
| 2 | *5300.00 | 100.9 AV | | | 1.57 H | 239 | 98.4 | 2.5 |
| 3 | 5350.00 | 71.0 PK | 74.0 | -3.0 | 1.57 H | 239 | 68.4 | 2.6 |
| 4 | 5350.00 | 53.6 AV | 54.0 | -0.4 | 1.57 H | 239 | 51.0 | 2.6 |
| 5 | 10600.00 | 53.7 PK | 74.0 | -20.3 | 1.61 H | 266 | 41.3 | 12.4 |
| 6 | 10600.00 | 41.8 AV | 54.0 | -12.2 | 1.61 H | 266 | 29.4 | 12.4 |
| 7 | 15900.00 | 59.2 PK | 74.0 | -14.8 | 1.74 H | 330 | 46.9 | 12.3 |
| 8 | 15900.00 | 46.9 AV | 54.0 | -7.1 | 1.74 H | 330 | 34.6 | 12.3 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5300.00 | 107.1 PK | | | 1.90 V | 165 | 104.6 | 2.5 |
| 2 | *5300.00 | 99.2 AV | | | 1.90 V | 165 | 96.7 | 2.5 |
| 3 | 5350.00 | 70.4 PK | 74.0 | -3.6 | 1.90 V | 165 | 67.8 | 2.6 |
| 4 | 5350.00 | 52.7 AV | 54.0 | -1.3 | 1.90 V | 165 | 50.1 | 2.6 |
| 5 | 10600.00 | 53.4 PK | 74.0 | -20.6 | 1.65 V | 250 | 41.0 | 12.4 |
| 6 | 10600.00 | 40.8 AV | 54.0 | -13.2 | 1.65 V | 250 | 28.4 | 12.4 |
| 7 | 15900.00 | 61.2 PK | 74.0 | -12.8 | 1.53 V | 121 | 48.9 | 12.3 |
| 8 | 15900.00 | 48.2 AV | 54.0 | -5.8 | 1.53 V | 121 | 35.9 | 12.3 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5320.00 | 106.4 PK | | | 1.60 H | 254 | 103.9 | 2.5 |
| 2 | *5320.00 | 98.8 AV | | | 1.60 H | 254 | 96.3 | 2.5 |
| 3 | 5350.00 | 71.1 PK | 74.0 | -2.9 | 1.60 H | 254 | 68.5 | 2.6 |
| 4 | 5350.00 | 53.4 AV | 54.0 | -0.6 | 1.60 H | 254 | 50.8 | 2.6 |
| 5 | 10640.00 | 53.8 PK | 74.0 | -20.2 | 1.70 H | 265 | 41.2 | 12.6 |
| 6 | 10640.00 | 41.6 AV | 54.0 | -12.4 | 1.70 H | 265 | 29.0 | 12.6 |
| 7 | 15960.00 | 60.0 PK | 74.0 | -14.0 | 1.70 H | 336 | 47.5 | 12.5 |
| 8 | 15960.00 | 47.5 AV | 54.0 | -6.5 | 1.70 H | 336 | 35.0 | 12.5 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5320.00 | 104.6 PK | | | 1.94 V | 165 | 102.1 | 2.5 |
| 2 | *5320.00 | 96.7 AV | | | 1.94 V | 165 | 94.2 | 2.5 |
| 3 | 5350.00 | 70.3 PK | 74.0 | -3.7 | 1.94 V | 165 | 67.7 | 2.6 |
| 4 | 5350.00 | 52.4 AV | 54.0 | -1.6 | 1.94 V | 165 | 49.8 | 2.6 |
| 5 | 10640.00 | 53.3 PK | 74.0 | -20.7 | 1.66 V | 231 | 40.7 | 12.6 |
| 6 | 10640.00 | 40.3 AV | 54.0 | -13.7 | 1.66 V | 231 | 27.7 | 12.6 |
| 7 | 15960.00 | 60.5 PK | 74.0 | -13.5 | 1.58 V | 136 | 48.0 | 12.5 |
| 8 | 15960.00 | 48.1 AV | 54.0 | -5.9 | 1.58 V | 136 | 35.6 | 12.5 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5470.00 | 66.8 PK | 68.2 | -1.4 | 1.57 H | 238 | 63.9 | 2.9 |
| 2 | *5500.00 | 107.9 PK | | | 1.57 H | 238 | 105.0 | 2.9 |
| 3 | *5500.00 | 99.9 AV | | | 1.57 H | 238 | 97.0 | 2.9 |
| 4 | 11000.00 | 54.1 PK | 74.0 | -19.9 | 1.61 H | 257 | 40.9 | 13.2 |
| 5 | 11000.00 | 41.9 AV | 54.0 | -12.1 | 1.61 H | 257 | 28.7 | 13.2 |
| 6 | #16500.00 | 59.3 PK | 68.2 | -8.9 | 1.75 H | 352 | 44.3 | 15.0 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5470.00 | 67.8 PK | 68.2 | -0.4 | 1.99 V | 181 | 64.9 | 2.9 |
| 2 | *5500.00 | 104.7 PK | | | 1.99 V | 181 | 101.8 | 2.9 |
| 3 | *5500.00 | 97.1 AV | | | 1.99 V | 181 | 94.2 | 2.9 |
| 4 | 11000.00 | 54.3 PK | 74.0 | -19.7 | 1.60 V | 232 | 41.1 | 13.2 |
| 5 | 11000.00 | 41.5 AV | 54.0 | -12.5 | 1.60 V | 232 | 28.3 | 13.2 |
| 6 | #16500.00 | 60.0 PK | 68.2 | -8.2 | 1.49 V | 136 | 45.0 | 15.0 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5580.00 | 109.4 PK | | | 1.63 H | 239 | 106.2 | 3.2 |
| 2 | *5580.00 | 100.8 AV | | | 1.63 H | 239 | 97.6 | 3.2 |
| 3 | 11160.00 | 54.9 PK | 74.0 | -19.1 | 1.66 H | 256 | 41.8 | 13.1 |
| 4 | 11160.00 | 42.2 AV | 54.0 | -11.8 | 1.66 H | 256 | 29.1 | 13.1 |
| 5 | #16740.00 | 59.0 PK | 68.2 | -9.2 | 1.70 H | 341 | 42.6 | 16.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5580.00 | 107.7 PK | | | 2.01 V | 156 | 104.5 | 3.2 |
| 2 | *5580.00 | 99.9 AV | | | 2.01 V | 156 | 96.7 | 3.2 |
| 3 | 11160.00 | 54.5 PK | 74.0 | -19.5 | 1.68 V | 246 | 41.4 | 13.1 |
| 4 | 11160.00 | 41.6 AV | 54.0 | -12.4 | 1.68 V | 246 | 28.5 | 13.1 |
| 5 | #16740.00 | 61.1 PK | 68.2 | -7.1 | 1.48 V | 130 | 44.7 | 16.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5700.00 | 109.8 PK | | | 1.66 H | 230 | 106.4 | 3.4 |
| 2 | *5700.00 | 99.8 AV | | | 1.66 H | 230 | 96.4 | 3.4 |
| 3 | #5725.00 | 67.6 PK | 68.2 | -0.6 | 1.66 H | 230 | 64.3 | 3.3 |
| 4 | 11400.00 | 55.2 PK | 74.0 | -18.8 | 1.71 H | 263 | 41.7 | 13.5 |
| 5 | 11400.00 | 42.6 AV | 54.0 | -11.4 | 1.71 H | 263 | 29.1 | 13.5 |
| 6 | #17100.00 | 60.2 PK | 68.2 | -8.0 | 1.71 H | 326 | 44.1 | 16.1 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5700.00 | 104.2 PK | | | 2.00 V | 156 | 100.8 | 3.4 |
| 2 | *5700.00 | 96.6 AV | | | 2.00 V | 156 | 93.2 | 3.4 |
| 3 | #5725.00 | 67.1 PK | 68.2 | -1.1 | 2.00 V | 156 | 63.8 | 3.3 |
| 4 | 11400.00 | 53.9 PK | 74.0 | -20.1 | 1.60 V | 221 | 40.4 | 13.5 |
| 5 | 11400.00 | 41.0 AV | 54.0 | -13.0 | 1.60 V | 221 | 27.5 | 13.5 |
| 6 | #17100.00 | 60.5 PK | 68.2 | -7.7 | 1.52 V | 121 | 44.4 | 16.1 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5594.26 | 51.6 PK | 68.2 | -16.6 | 1.65 H | 246 | 48.4 | 3.2 |
| 2 | *5745.00 | 106.5 PK | | | 1.65 H | 246 | 103.2 | 3.3 |
| 3 | *5745.00 | 97.7 AV | | | 1.65 H | 246 | 94.4 | 3.3 |
| 4 | #5963.64 | 51.8 PK | 68.2 | -16.4 | 1.65 H | 246 | 48.3 | 3.5 |
| 5 | 11490.00 | 54.8 PK | 74.0 | -19.2 | 1.61 H | 268 | 41.4 | 13.4 |
| 6 | 11490.00 | 42.1 AV | 54.0 | -11.9 | 1.61 H | 268 | 28.7 | 13.4 |
| 7 | #17235.00 | 60.6 PK | 68.2 | -7.6 | 1.71 H | 351 | 43.9 | 16.7 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5584.10 | 52.0 PK | 68.2 | -16.2 | 1.94 V | 174 | 48.8 | 3.2 |
| 2 | *5745.00 | 106.8 PK | | | 1.94 V | 174 | 103.5 | 3.3 |
| 3 | *5745.00 | 96.7 AV | | | 1.94 V | 174 | 93.4 | 3.3 |
| 4 | #5953.09 | 52.0 PK | 68.2 | -16.2 | 1.94 V | 174 | 48.5 | 3.5 |
| 5 | 11490.00 | 54.4 PK | 74.0 | -19.6 | 1.67 V | 241 | 41.0 | 13.4 |
| 6 | 11490.00 | 41.5 AV | 54.0 | -12.5 | 1.67 V | 241 | 28.1 | 13.4 |
| 7 | #17235.00 | 61.0 PK | 68.2 | -7.2 | 1.52 V | 140 | 44.3 | 16.7 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5638.40 | 53.3 PK | 68.2 | -14.9 | 1.66 H | 229 | 50.1 | 3.2 |
| 2 | *5785.00 | 110.5 PK | | | 1.66 H | 229 | 107.2 | 3.3 |
| 3 | *5785.00 | 102.1 AV | | | 1.66 H | 229 | 98.8 | 3.3 |
| 4 | #5946.19 | 53.0 PK | 68.2 | -15.2 | 1.66 H | 229 | 49.5 | 3.5 |
| 5 | 11570.00 | 54.9 PK | 74.0 | -19.1 | 1.67 H | 243 | 41.5 | 13.4 |
| 6 | 11570.00 | 42.2 AV | 54.0 | -11.8 | 1.67 H | 243 | 28.8 | 13.4 |
| 7 | #17355.00 | 60.3 PK | 68.2 | -7.9 | 1.76 H | 330 | 43.0 | 17.3 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5618.32 | 51.0 PK | 68.2 | -17.2 | 1.94 V | 172 | 47.7 | 3.3 |
| 2 | *5785.00 | 107.5 PK | | | 1.94 V | 172 | 104.2 | 3.3 |
| 3 | *5785.00 | 97.7 AV | | | 1.94 V | 172 | 94.4 | 3.3 |
| 4 | #5977.57 | 50.3 PK | 68.2 | -17.9 | 1.94 V | 172 | 46.7 | 3.6 |
| 5 | 11570.00 | 53.5 PK | 74.0 | -20.5 | 1.68 V | 222 | 40.1 | 13.4 |
| 6 | 11570.00 | 40.4 AV | 54.0 | -13.6 | 1.68 V | 222 | 27.0 | 13.4 |
| 7 | #17355.00 | 60.3 PK | 68.2 | -7.9 | 1.50 V | 111 | 43.0 | 17.3 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5575.67 | 52.1 PK | 68.2 | -16.1 | 1.67 H | 258 | 48.9 | 3.2 |
| 2 | *5825.00 | 107.5 PK | | | 1.67 H | 258 | 104.0 | 3.5 |
| 3 | *5825.00 | 98.3 AV | | | 1.67 H | 258 | 94.8 | 3.5 |
| 4 | #5968.18 | 52.1 PK | 68.2 | -16.1 | 1.67 H | 258 | 48.5 | 3.6 |
| 5 | 11650.00 | 54.5 PK | 74.0 | -19.5 | 1.65 H | 260 | 41.2 | 13.3 |
| 6 | 11650.00 | 41.9 AV | 54.0 | -12.1 | 1.65 H | 260 | 28.6 | 13.3 |
| 7 | #17475.00 | 59.9 PK | 68.2 | -8.3 | 1.75 H | 326 | 41.7 | 18.2 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5612.33 | 51.8 PK | 68.2 | -16.4 | 1.96 V | 177 | 48.5 | 3.3 |
| 2 | *5825.00 | 108.6 PK | | | 1.96 V | 177 | 105.1 | 3.5 |
| 3 | *5825.00 | 98.0 AV | | | 1.96 V | 177 | 94.5 | 3.5 |
| 4 | #5971.60 | 51.9 PK | 68.2 | -16.3 | 1.96 V | 177 | 48.3 | 3.6 |
| 5 | 11650.00 | 53.5 PK | 74.0 | -20.5 | 1.65 V | 241 | 40.2 | 13.3 |
| 6 | 11650.00 | 40.9 AV | 54.0 | -13.1 | 1.65 V | 241 | 27.6 | 13.3 |
| 7 | #17475.00 | 60.9 PK | 68.2 | -7.3 | 1.48 V | 118 | 42.7 | 18.2 |

**REMARKS:**

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

## 802.11ac (VHT20)

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 67.3 PK | 74.0 | -6.7 | 1.68 H | 248 | 64.3 | 3.0 |
| 2 | 5150.00 | 53.7 AV | 54.0 | -0.3 | 1.68 H | 248 | 50.7 | 3.0 |
| 3 | *5180.00 | 109.2 PK | | | 1.68 H | 248 | 106.4 | 2.8 |
| 4 | *5180.00 | 100.1 AV | | | 1.68 H | 248 | 97.3 | 2.8 |
| 5 | #10360.00 | 53.8 PK | 68.2 | -14.4 | 1.66 H | 260 | 41.4 | 12.4 |
| 6 | 15540.00 | 59.5 PK | 74.0 | -14.5 | 1.76 H | 345 | 46.7 | 12.8 |
| 7 | 15540.00 | 47.3 AV | 54.0 | -6.7 | 1.76 H | 345 | 34.5 | 12.8 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 64.7 PK | 74.0 | -9.3 | 1.98 V | 177 | 61.7 | 3.0 |
| 2 | 5150.00 | 49.3 AV | 54.0 | -4.7 | 1.98 V | 177 | 46.3 | 3.0 |
| 3 | *5180.00 | 108.2 PK | | | 1.98 V | 177 | 105.4 | 2.8 |
| 4 | *5180.00 | 97.9 AV | | | 1.98 V | 177 | 95.1 | 2.8 |
| 5 | #10360.00 | 53.8 PK | 68.2 | -14.4 | 1.66 V | 228 | 41.4 | 12.4 |
| 6 | 15540.00 | 61.2 PK | 74.0 | -12.8 | 1.52 V | 122 | 48.4 | 12.8 |
| 7 | 15540.00 | 48.1 AV | 54.0 | -5.9 | 1.52 V | 122 | 35.3 | 12.8 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 69.0 PK | 74.0 | -5.0 | 1.69 H | 243 | 66.0 | 3.0 |
| 2 | 5150.00 | 53.7 AV | 54.0 | -0.3 | 1.69 H | 243 | 50.7 | 3.0 |
| 3 | *5200.00 | 114.8 PK | | | 1.69 H | 243 | 112.1 | 2.7 |
| 4 | *5200.00 | 104.6 AV | | | 1.69 H | 243 | 101.9 | 2.7 |
| 5 | #10400.00 | 54.0 PK | 68.2 | -14.2 | 1.66 H | 254 | 41.5 | 12.5 |
| 6 | 15600.00 | 59.5 PK | 74.0 | -14.5 | 1.79 H | 350 | 46.7 | 12.8 |
| 7 | 15600.00 | 47.8 AV | 54.0 | -6.2 | 1.79 H | 350 | 35.0 | 12.8 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 64.2 PK | 74.0 | -9.8 | 1.93 V | 165 | 61.2 | 3.0 |
| 2 | 5150.00 | 48.8 AV | 54.0 | -5.2 | 1.93 V | 165 | 45.8 | 3.0 |
| 3 | *5200.00 | 113.2 PK | | | 1.93 V | 165 | 110.5 | 2.7 |
| 4 | *5200.00 | 102.4 AV | | | 1.93 V | 165 | 99.7 | 2.7 |
| 5 | #10400.00 | 54.3 PK | 68.2 | -13.9 | 1.65 V | 231 | 41.8 | 12.5 |
| 6 | 15600.00 | 59.9 PK | 74.0 | -14.1 | 1.54 V | 121 | 47.1 | 12.8 |
| 7 | 15600.00 | 47.4 AV | 54.0 | -6.6 | 1.54 V | 121 | 34.6 | 12.8 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5240.00 | 115.4 PK | | | 1.63 H | 239 | 112.9 | 2.5 |
| 2 | *5240.00 | 104.9 AV | | | 1.63 H | 239 | 102.4 | 2.5 |
| 3 | 5350.00 | 66.5 PK | 74.0 | -7.5 | 1.63 H | 239 | 63.9 | 2.6 |
| 4 | 5350.00 | 50.3 AV | 54.0 | -3.7 | 1.63 H | 239 | 47.7 | 2.6 |
| 5 | #10480.00 | 54.9 PK | 68.2 | -13.3 | 1.71 H | 253 | 41.9 | 13.0 |
| 6 | 15720.00 | 58.7 PK | 74.0 | -15.3 | 1.77 H | 326 | 46.3 | 12.4 |
| 7 | 15720.00 | 46.9 AV | 54.0 | -7.1 | 1.77 H | 326 | 34.5 | 12.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5240.00 | 113.3 PK | | | 1.90 V | 175 | 110.8 | 2.5 |
| 2 | *5240.00 | 102.8 AV | | | 1.90 V | 175 | 100.3 | 2.5 |
| 3 | 5350.00 | 64.3 PK | 74.0 | -9.7 | 1.90 V | 175 | 61.7 | 2.6 |
| 4 | 5350.00 | 49.0 AV | 54.0 | -5.0 | 1.90 V | 175 | 46.4 | 2.6 |
| 5 | #10480.00 | 53.5 PK | 68.2 | -14.7 | 1.64 V | 223 | 40.5 | 13.0 |
| 6 | 15720.00 | 61.2 PK | 74.0 | -12.8 | 1.54 V | 126 | 48.8 | 12.4 |
| 7 | 15720.00 | 48.3 AV | 54.0 | -5.7 | 1.54 V | 126 | 35.9 | 12.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 66.1 PK | 74.0 | -7.9 | 1.64 H | 232 | 63.1 | 3.0 |
| 2 | 5150.00 | 50.1 AV | 54.0 | -3.9 | 1.64 H | 232 | 47.1 | 3.0 |
| 3 | *5260.00 | 115.3 PK | | | 1.64 H | 232 | 112.9 | 2.4 |
| 4 | *5260.00 | 105.2 AV | | | 1.64 H | 232 | 102.8 | 2.4 |
| 5 | #10520.00 | 54.3 PK | 68.2 | -13.9 | 1.69 H | 272 | 41.4 | 12.9 |
| 6 | 15780.00 | 59.7 PK | 74.0 | -14.3 | 1.73 H | 354 | 47.2 | 12.5 |
| 7 | 15780.00 | 47.7 AV | 54.0 | -6.3 | 1.73 H | 354 | 35.2 | 12.5 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 64.1 PK | 74.0 | -9.9 | 1.97 V | 167 | 61.1 | 3.0 |
| 2 | 5150.00 | 48.9 AV | 54.0 | -5.1 | 1.97 V | 167 | 45.9 | 3.0 |
| 3 | *5260.00 | 113.2 PK | | | 1.97 V | 167 | 110.8 | 2.4 |
| 4 | *5260.00 | 102.6 AV | | | 1.97 V | 167 | 100.2 | 2.4 |
| 5 | #10520.00 | 53.2 PK | 68.2 | -15.0 | 1.70 V | 232 | 40.3 | 12.9 |
| 6 | 15780.00 | 60.5 PK | 74.0 | -13.5 | 1.49 V | 127 | 48.0 | 12.5 |
| 7 | 15780.00 | 48.0 AV | 54.0 | -6.0 | 1.49 V | 127 | 35.5 | 12.5 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5300.00 | 114.4 PK | | | 1.65 H | 242 | 111.9 | 2.5 |
| 2 | *5300.00 | 103.9 AV | | | 1.65 H | 242 | 101.4 | 2.5 |
| 3 | 5350.00 | 70.3 PK | 74.0 | -3.7 | 1.65 H | 242 | 67.7 | 2.6 |
| 4 | 5350.00 | 53.7 AV | 54.0 | -0.3 | 1.65 H | 242 | 51.1 | 2.6 |
| 5 | 10600.00 | 53.9 PK | 74.0 | -20.1 | 1.70 H | 259 | 41.5 | 12.4 |
| 6 | 10600.00 | 41.2 AV | 54.0 | -12.8 | 1.70 H | 259 | 28.8 | 12.4 |
| 7 | 15900.00 | 59.4 PK | 74.0 | -14.6 | 1.79 H | 355 | 47.1 | 12.3 |
| 8 | 15900.00 | 47.3 AV | 54.0 | -6.7 | 1.79 H | 355 | 35.0 | 12.3 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5300.00 | 113.5 PK | | | 1.97 V | 153 | 111.0 | 2.5 |
| 2 | *5300.00 | 102.6 AV | | | 1.97 V | 153 | 100.1 | 2.5 |
| 3 | 5350.00 | 64.1 PK | 74.0 | -9.9 | 1.97 V | 153 | 61.5 | 2.6 |
| 4 | 5350.00 | 48.7 AV | 54.0 | -5.3 | 1.97 V | 153 | 46.1 | 2.6 |
| 5 | 10600.00 | 53.8 PK | 74.0 | -20.2 | 1.67 V | 225 | 41.4 | 12.4 |
| 6 | 10600.00 | 40.9 AV | 54.0 | -13.1 | 1.67 V | 225 | 28.5 | 12.4 |
| 7 | 15900.00 | 61.8 PK | 74.0 | -12.2 | 1.49 V | 132 | 49.5 | 12.3 |
| 8 | 15900.00 | 49.0 AV | 54.0 | -5.0 | 1.49 V | 132 | 36.7 | 12.3 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5320.00 | 110.2 PK | | | 1.63 H | 243 | 107.7 | 2.5 |
| 2 | *5320.00 | 100.6 AV | | | 1.63 H | 243 | 98.1 | 2.5 |
| 3 | 5350.00 | 65.1 PK | 74.0 | -8.9 | 1.63 H | 243 | 62.5 | 2.6 |
| 4 | 5350.00 | 49.6 AV | 54.0 | -4.4 | 1.63 H | 243 | 47.0 | 2.6 |
| 5 | 10640.00 | 54.2 PK | 74.0 | -19.8 | 1.70 H | 242 | 41.6 | 12.6 |
| 6 | 10640.00 | 42.1 AV | 54.0 | -11.9 | 1.70 H | 242 | 29.5 | 12.6 |
| 7 | 15960.00 | 59.7 PK | 74.0 | -14.3 | 1.79 H | 342 | 47.2 | 12.5 |
| 8 | 15960.00 | 47.3 AV | 54.0 | -6.7 | 1.79 H | 342 | 34.8 | 12.5 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5320.00 | 107.7 PK | | | 1.91 V | 161 | 105.2 | 2.5 |
| 2 | *5320.00 | 98.3 AV | | | 1.91 V | 161 | 95.8 | 2.5 |
| 3 | 5350.00 | 64.0 PK | 74.0 | -10.0 | 1.91 V | 161 | 61.4 | 2.6 |
| 4 | 5350.00 | 48.7 AV | 54.0 | -5.3 | 1.91 V | 161 | 46.1 | 2.6 |
| 5 | 10640.00 | 54.3 PK | 74.0 | -19.7 | 1.70 V | 235 | 41.7 | 12.6 |
| 6 | 10640.00 | 41.5 AV | 54.0 | -12.5 | 1.70 V | 235 | 28.9 | 12.6 |
| 7 | 15960.00 | 61.4 PK | 74.0 | -12.6 | 1.49 V | 120 | 48.9 | 12.5 |
| 8 | 15960.00 | 48.9 AV | 54.0 | -5.1 | 1.49 V | 120 | 36.4 | 12.5 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5470.00 | 66.4 PK | 68.2 | -1.8 | 1.66 H | 239 | 63.5 | 2.9 |
| 2 | *5500.00 | 109.6 PK | | | 1.66 H | 239 | 106.7 | 2.9 |
| 3 | *5500.00 | 100.1 AV | | | 1.66 H | 239 | 97.2 | 2.9 |
| 4 | 11000.00 | 55.0 PK | 74.0 | -19.0 | 1.63 H | 264 | 41.8 | 13.2 |
| 5 | 11000.00 | 41.9 AV | 54.0 | -12.1 | 1.63 H | 264 | 28.7 | 13.2 |
| 6 | #16500.00 | 59.6 PK | 68.2 | -8.6 | 1.66 H | 239 | 44.6 | 15.0 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5470.00 | 63.0 PK | 68.2 | -5.2 | 1.98 V | 156 | 60.1 | 2.9 |
| 2 | *5500.00 | 106.8 PK | | | 1.98 V | 156 | 103.9 | 2.9 |
| 3 | *5500.00 | 97.6 AV | | | 1.98 V | 156 | 94.7 | 2.9 |
| 4 | 11000.00 | 55.0 PK | 74.0 | -19.0 | 1.67 V | 236 | 41.8 | 13.2 |
| 5 | 11000.00 | 42.0 AV | 54.0 | -12.0 | 1.67 V | 236 | 28.8 | 13.2 |
| 6 | #16500.00 | 62.1 PK | 68.2 | -6.1 | 1.51 V | 117 | 47.1 | 15.0 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5580.00 | 114.1 PK | | | 1.69 H | 259 | 110.9 | 3.2 |
| 2 | *5580.00 | 104.4 AV | | | 1.69 H | 259 | 101.2 | 3.2 |
| 3 | 11160.00 | 53.8 PK | 74.0 | -20.2 | 1.63 H | 264 | 40.7 | 13.1 |
| 4 | 11160.00 | 41.4 AV | 54.0 | -12.6 | 1.63 H | 264 | 28.3 | 13.1 |
| 5 | #16740.00 | 60.1 PK | 68.2 | -8.1 | 1.75 H | 334 | 43.7 | 16.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5580.00 | 113.5 PK | | | 1.97 V | 153 | 110.3 | 3.2 |
| 2 | *5580.00 | 103.0 AV | | | 1.97 V | 153 | 99.8 | 3.2 |
| 3 | 11160.00 | 54.0 PK | 74.0 | -20.0 | 1.59 V | 249 | 40.9 | 13.1 |
| 4 | 11160.00 | 41.2 AV | 54.0 | -12.8 | 1.59 V | 249 | 28.1 | 13.1 |
| 5 | #16740.00 | 60.5 PK | 68.2 | -7.7 | 1.49 V | 110 | 44.1 | 16.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5700.00 | 108.8 PK | | | 1.61 H | 259 | 105.4 | 3.4 |
| 2 | *5700.00 | 98.5 AV | | | 1.61 H | 259 | 95.1 | 3.4 |
| **3** | **#5725.00** | **68.1 PK** | **68.2** | **-0.1** | **1.61 H** | **259** | **64.8** | **3.3** |
| 4 | 11400.00 | 53.5 PK | 74.0 | -20.5 | 1.64 H | 242 | 40.0 | 13.5 |
| 5 | 11400.00 | 40.9 AV | 54.0 | -13.1 | 1.64 H | 242 | 27.4 | 13.5 |
| 6 | #17100.00 | 59.7 PK | 68.2 | -8.5 | 1.70 H | 341 | 43.6 | 16.1 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5700.00 | 106.7 PK | | | 1.91 V | 163 | 103.3 | 3.4 |
| 2 | *5700.00 | 96.2 AV | | | 1.91 V | 163 | 92.8 | 3.4 |
| 3 | #5725.00 | 62.6 PK | 68.2 | -5.6 | 1.91 V | 163 | 59.3 | 3.3 |
| 4 | 11400.00 | 53.7 PK | 74.0 | -20.3 | 1.68 V | 227 | 40.2 | 13.5 |
| 5 | 11400.00 | 41.0 AV | 54.0 | -13.0 | 1.68 V | 227 | 27.5 | 13.5 |
| 6 | #17100.00 | 61.1 PK | 68.2 | -7.1 | 1.55 V | 139 | 45.0 | 16.1 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5648.86 | 52.5 PK | 68.2 | -15.7 | 1.65 H | 238 | 49.3 | 3.2 |
| 2 | *5745.00 | 110.5 PK | | | 1.65 H | 238 | 107.2 | 3.3 |
| 3 | *5745.00 | 99.6 AV | | | 1.65 H | 238 | 96.3 | 3.3 |
| 4 | #5949.06 | 53.0 PK | 68.2 | -15.2 | 1.65 H | 238 | 49.5 | 3.5 |
| 5 | 11490.00 | 53.6 PK | 74.0 | -20.4 | 1.69 H | 259 | 40.2 | 13.4 |
| 6 | 11490.00 | 41.3 AV | 54.0 | -12.7 | 1.69 H | 259 | 27.9 | 13.4 |
| 7 | #17235.00 | 60.5 PK | 68.2 | -7.7 | 1.76 H | 328 | 43.8 | 16.7 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5619.56 | 51.2 PK | 68.2 | -17.0 | 1.92 V | 158 | 47.9 | 3.3 |
| 2 | *5745.00 | 108.7 PK | | | 1.92 V | 158 | 105.4 | 3.3 |
| 3 | *5745.00 | 97.4 AV | | | 1.92 V | 158 | 94.1 | 3.3 |
| 4 | #5952.79 | 51.8 PK | 68.2 | -16.4 | 1.92 V | 158 | 48.3 | 3.5 |
| 5 | 11490.00 | 53.2 PK | 74.0 | -20.8 | 1.60 V | 246 | 39.8 | 13.4 |
| 6 | 11490.00 | 39.9 AV | 54.0 | -14.1 | 1.60 V | 246 | 26.5 | 13.4 |
| 7 | #17235.00 | 60.7 PK | 68.2 | -7.5 | 1.49 V | 126 | 44.0 | 16.7 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5627.69 | 54.6 PK | 68.2 | -13.6 | 1.63 H | 239 | 51.3 | 3.3 |
| 2 | *5785.00 | 115.1 PK | | | 1.63 H | 239 | 111.8 | 3.3 |
| 3 | *5785.00 | 104.5 AV | | | 1.63 H | 239 | 101.2 | 3.3 |
| 4 | #5930.65 | 53.8 PK | 68.2 | -14.4 | 1.63 H | 239 | 50.2 | 3.6 |
| 5 | 11570.00 | 55.1 PK | 74.0 | -18.9 | 1.62 H | 271 | 41.7 | 13.4 |
| 6 | 11570.00 | 42.4 AV | 54.0 | -11.6 | 1.62 H | 271 | 29.0 | 13.4 |
| 7 | #17355.00 | 60.2 PK | 68.2 | -8.0 | 1.80 H | 349 | 42.9 | 17.3 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5645.08 | 54.7 PK | 68.2 | -13.5 | 1.98 V | 158 | 51.5 | 3.2 |
| 2 | *5785.00 | 112.8 PK | | | 1.98 V | 158 | 109.5 | 3.3 |
| 3 | *5785.00 | 102.2 AV | | | 1.98 V | 158 | 98.9 | 3.3 |
| 4 | #5978.85 | 52.6 PK | 68.2 | -15.6 | 1.98 V | 158 | 49.0 | 3.6 |
| 5 | 11570.00 | 54.2 PK | 74.0 | -19.8 | 1.66 V | 221 | 40.8 | 13.4 |
| 6 | 11570.00 | 41.2 AV | 54.0 | -12.8 | 1.66 V | 221 | 27.8 | 13.4 |
| 7 | #17355.00 | 61.1 PK | 68.2 | -7.1 | 1.54 V | 132 | 43.8 | 17.3 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5636.91 | 53.1 PK | 68.2 | -15.1 | 1.63 H | 256 | 49.9 | 3.2 |
| 2 | *5825.00 | 112.8 PK | | | 1.63 H | 256 | 109.3 | 3.5 |
| 3 | *5825.00 | 101.1 AV | | | 1.63 H | 256 | 97.6 | 3.5 |
| 4 | #5949.17 | 53.2 PK | 68.2 | -15.0 | 1.63 H | 256 | 49.7 | 3.5 |
| 5 | 11650.00 | 54.7 PK | 74.0 | -19.3 | 1.72 H | 258 | 41.4 | 13.3 |
| 6 | 11650.00 | 42.0 AV | 54.0 | -12.0 | 1.72 H | 258 | 28.7 | 13.3 |
| 7 | #17475.00 | 60.5 PK | 68.2 | -7.7 | 1.76 H | 341 | 42.3 | 18.2 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5640.10 | 52.7 PK | 68.2 | -15.5 | 1.98 V | 167 | 49.5 | 3.2 |
| 2 | *5825.00 | 110.5 PK | | | 1.98 V | 167 | 107.0 | 3.5 |
| 3 | *5825.00 | 99.6 AV | | | 1.98 V | 167 | 96.1 | 3.5 |
| 4 | #5936.76 | 53.2 PK | 68.2 | -15.0 | 1.98 V | 167 | 49.6 | 3.6 |
| 5 | 11650.00 | 54.0 PK | 74.0 | -20.0 | 1.70 V | 246 | 40.7 | 13.3 |
| 6 | 11650.00 | 41.3 AV | 54.0 | -12.7 | 1.70 V | 246 | 28.0 | 13.3 |
| 7 | #17475.00 | 60.4 PK | 68.2 | -7.8 | 1.57 V | 140 | 42.2 | 18.2 |

**REMARKS:**

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

## 802.11ac (VHT40)

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 69.4 PK | 74.0 | -4.6 | 1.60 H | 241 | 66.4 | 3.0 |
| **2** | **5150.00** | **53.9 AV** | **54.0** | **-0.1** | **1.60 H** | **241** | **50.9** | **3.0** |
| 3 | *5190.00 | 105.2 PK | | | 1.60 H | 241 | 102.4 | 2.8 |
| 4 | *5190.00 | 95.2 AV | | | 1.60 H | 241 | 92.4 | 2.8 |
| 5 | #10380.00 | 54.3 PK | 68.2 | -13.9 | 1.61 H | 258 | 41.9 | 12.4 |
| 6 | 15570.00 | 60.0 PK | 74.0 | -14.0 | 1.72 H | 333 | 47.2 | 12.8 |
| 7 | 15570.00 | 47.8 AV | 54.0 | -6.2 | 1.72 H | 333 | 35.0 | 12.8 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 64.7 PK | 74.0 | -9.3 | 2.01 V | 165 | 61.7 | 3.0 |
| 2 | 5150.00 | 48.9 AV | 54.0 | -5.1 | 2.01 V | 165 | 45.9 | 3.0 |
| 3 | *5190.00 | 102.2 PK | | | 2.01 V | 165 | 99.4 | 2.8 |
| 4 | *5190.00 | 92.6 AV | | | 2.01 V | 165 | 89.8 | 2.8 |
| 5 | #10380.00 | 53.4 PK | 68.2 | -14.8 | 1.66 V | 235 | 41.0 | 12.4 |
| 6 | 15570.00 | 60.9 PK | 74.0 | -13.1 | 1.52 V | 131 | 48.1 | 12.8 |
| 7 | 15570.00 | 48.4 AV | 54.0 | -5.6 | 1.52 V | 131 | 35.6 | 12.8 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5230.00 | 101.0 PK | | | 1.63 H | 252 | 98.5 | 2.5 |
| 2 | *5230.00 | 98.7 AV | | | 1.63 H | 252 | 96.2 | 2.5 |
| 3 | 5350.00 | 64.9 PK | 74.0 | -9.1 | 1.63 H | 252 | 62.3 | 2.6 |
| 4 | 5350.00 | 52.9 AV | 54.0 | -1.1 | 1.63 H | 252 | 50.3 | 2.6 |
| 5 | #10460.00 | 53.8 PK | 68.2 | -14.4 | 1.71 H | 252 | 40.9 | 12.9 |
| 6 | 15690.00 | 60.7 PK | 74.0 | -13.3 | 1.71 H | 341 | 48.3 | 12.4 |
| 7 | 15690.00 | 48.2 AV | 54.0 | -5.8 | 1.71 H | 341 | 35.8 | 12.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5230.00 | 99.3 PK | | | 1.98 V | 166 | 96.8 | 2.5 |
| 2 | *5230.00 | 97.2 AV | | | 1.98 V | 166 | 94.7 | 2.5 |
| 3 | 5350.00 | 64.7 PK | 74.0 | -9.3 | 1.98 V | 166 | 62.1 | 2.6 |
| 4 | 5350.00 | 49.4 AV | 54.0 | -4.6 | 1.98 V | 166 | 46.8 | 2.6 |
| 5 | #10460.00 | 53.4 PK | 68.2 | -14.8 | 1.69 V | 235 | 40.5 | 12.9 |
| 6 | 15690.00 | 61.6 PK | 74.0 | -12.4 | 1.49 V | 139 | 49.2 | 12.4 |
| 7 | 15690.00 | 48.6 AV | 54.0 | -5.4 | 1.49 V | 139 | 36.2 | 12.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 71.9 PK | 74.0 | -2.1 | 1.63 H | 243 | 68.9 | 3.0 |
| 2 | 5150.00 | 53.8 AV | 54.0 | -0.2 | 1.63 H | 243 | 50.8 | 3.0 |
| 3 | *5270.00 | 110.6 PK | | | 1.63 H | 243 | 108.2 | 2.4 |
| 4 | *5270.00 | 100.6 AV | | | 1.63 H | 243 | 98.2 | 2.4 |
| 5 | #10540.00 | 54.7 PK | 68.2 | -13.5 | 1.68 H | 243 | 41.9 | 12.8 |
| 6 | 15810.00 | 60.2 PK | 74.0 | -13.8 | 1.75 H | 330 | 47.8 | 12.4 |
| 7 | 15810.00 | 48.2 AV | 54.0 | -5.8 | 1.75 H | 330 | 35.8 | 12.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 64.7 PK | 74.0 | -9.3 | 1.98 V | 163 | 61.7 | 3.0 |
| 2 | 5150.00 | 49.4 AV | 54.0 | -4.6 | 1.98 V | 163 | 46.4 | 3.0 |
| 3 | *5270.00 | 110.1 PK | | | 1.98 V | 163 | 107.7 | 2.4 |
| 4 | *5270.00 | 100.0 AV | | | 1.98 V | 163 | 97.6 | 2.4 |
| 5 | #10540.00 | 54.4 PK | 68.2 | -13.8 | 1.63 V | 233 | 41.6 | 12.8 |
| 6 | 15810.00 | 61.1 PK | 74.0 | -12.9 | 1.54 V | 128 | 48.7 | 12.4 |
| 7 | 15810.00 | 48.9 AV | 54.0 | -5.1 | 1.54 V | 128 | 36.5 | 12.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5310.00 | 104.2 PK | | | 1.62 H | 258 | 101.8 | 2.4 |
| 2 | *5310.00 | 95.1 AV | | | 1.62 H | 258 | 92.7 | 2.4 |
| 3 | 5350.00 | 70.4 PK | 74.0 | -3.6 | 1.62 H | 258 | 67.8 | 2.6 |
| 4 | 5350.00 | 53.7 AV | 54.0 | -0.3 | 1.62 H | 258 | 51.1 | 2.6 |
| 5 | 10620.00 | 54.0 PK | 74.0 | -20.0 | 1.65 H | 260 | 41.5 | 12.5 |
| 6 | 10620.00 | 41.4 AV | 54.0 | -12.6 | 1.65 H | 260 | 28.9 | 12.5 |
| 7 | 15930.00 | 60.2 PK | 74.0 | -13.8 | 1.77 H | 347 | 47.8 | 12.4 |
| 8 | 15930.00 | 47.8 AV | 54.0 | -6.2 | 1.77 H | 347 | 35.4 | 12.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5310.00 | 102.1 PK | | | 1.90 V | 171 | 99.7 | 2.4 |
| 2 | *5310.00 | 92.2 AV | | | 1.90 V | 171 | 89.8 | 2.4 |
| 3 | 5350.00 | 64.8 PK | 74.0 | -9.2 | 1.90 V | 171 | 62.2 | 2.6 |
| 4 | 5350.00 | 49.5 AV | 54.0 | -4.5 | 1.90 V | 171 | 46.9 | 2.6 |
| 5 | 10620.00 | 53.6 PK | 74.0 | -20.4 | 1.66 V | 248 | 41.1 | 12.5 |
| 6 | 10620.00 | 40.5 AV | 54.0 | -13.5 | 1.66 V | 248 | 28.0 | 12.5 |
| 7 | 15930.00 | 62.1 PK | 74.0 | -11.9 | 1.53 V | 110 | 49.7 | 12.4 |
| 8 | 15930.00 | 49.2 AV | 54.0 | -4.8 | 1.53 V | 110 | 36.8 | 12.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| **1** | **#5470.00** | **68.1 PK** | **68.2** | **-0.1** | **1.58 H** | **247** | **65.2** | **2.9** |
| 2 | *5510.00 | 103.4 PK | | | 1.58 H | 247 | 100.5 | 2.9 |
| 3 | *5510.00 | 93.8 AV | | | 1.58 H | 247 | 90.9 | 2.9 |
| 4 | 11020.00 | 53.5 PK | 74.0 | -20.5 | 1.71 H | 266 | 40.3 | 13.2 |
| 5 | 11020.00 | 41.2 AV | 54.0 | -12.8 | 1.71 H | 266 | 28.0 | 13.2 |
| 6 | #16530.00 | 59.5 PK | 68.2 | -8.7 | 1.58 H | 247 | 44.6 | 14.9 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5470.00 | 65.4 PK | 68.2 | -2.8 | 1.90 V | 172 | 62.5 | 2.9 |
| 2 | *5510.00 | 102.6 PK | | | 1.90 V | 172 | 99.7 | 2.9 |
| 3 | *5510.00 | 92.7 AV | | | 1.90 V | 172 | 89.8 | 2.9 |
| 4 | 11020.00 | 53.2 PK | 74.0 | -20.8 | 1.62 V | 240 | 40.0 | 13.2 |
| 5 | 11020.00 | 40.5 AV | 54.0 | -13.5 | 1.62 V | 240 | 27.3 | 13.2 |
| 6 | #16530.00 | 60.3 PK | 68.2 | -7.9 | 1.50 V | 121 | 45.4 | 14.9 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| **1** | **#5470.00** | **68.1 PK** | **68.2** | **-0.1** | **1.61 H** | **253** | **65.2** | **2.9** |
| 2 | *5550.00 | 110.1 PK | | | 1.61 H | 253 | 107.1 | 3.0 |
| 3 | *5550.00 | 100.3 AV | | | 1.61 H | 253 | 97.3 | 3.0 |
| 4 | 11100.00 | 53.9 PK | 74.0 | -20.1 | 1.70 H | 270 | 40.9 | 13.0 |
| 5 | 11100.00 | 41.7 AV | 54.0 | -12.3 | 1.70 H | 270 | 28.7 | 13.0 |
| 6 | #16650.00 | 59.5 PK | 68.2 | -8.7 | 1.76 H | 335 | 43.9 | 15.6 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5470.00 | 64.5 PK | 68.2 | -3.7 | 1.98 V | 162 | 61.6 | 2.9 |
| 2 | *5550.00 | 108.4 PK | | | 1.98 V | 162 | 105.4 | 3.0 |
| 3 | *5550.00 | 98.6 AV | | | 1.98 V | 162 | 95.6 | 3.0 |
| 4 | 11100.00 | 53.9 PK | 74.0 | -20.1 | 1.63 V | 247 | 40.9 | 13.0 |
| 5 | 11100.00 | 41.2 AV | 54.0 | -12.8 | 1.63 V | 247 | 28.2 | 13.0 |
| 6 | #16650.00 | 60.4 PK | 68.2 | -7.8 | 1.57 V | 138 | 44.8 | 15.6 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5670.00 | 106.4 PK | | | 1.68 H | 254 | 103.1 | 3.3 |
| 2 | *5670.00 | 96.4 AV | | | 1.68 H | 254 | 93.1 | 3.3 |
| 3 | #5725.00 | 65.7 PK | 68.2 | -2.5 | 1.68 H | 254 | 62.4 | 3.3 |
| 4 | 11340.00 | 53.2 PK | 74.0 | -20.8 | 1.68 H | 249 | 39.7 | 13.5 |
| 5 | 11340.00 | 40.9 AV | 54.0 | -13.1 | 1.68 H | 249 | 27.4 | 13.5 |
| 6 | #17010.00 | 59.3 PK | 68.2 | -8.9 | 1.71 H | 332 | 42.8 | 16.5 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5670.00 | 103.7 PK | | | 1.98 V | 174 | 100.4 | 3.3 |
| 2 | *5670.00 | 93.7 AV | | | 1.98 V | 174 | 90.4 | 3.3 |
| 3 | #5725.00 | 61.9 PK | 68.2 | -6.3 | 1.98 V | 174 | 58.6 | 3.3 |
| 4 | 11340.00 | 53.8 PK | 74.0 | -20.2 | 1.65 V | 242 | 40.3 | 13.5 |
| 5 | 11340.00 | 40.7 AV | 54.0 | -13.3 | 1.65 V | 242 | 27.2 | 13.5 |
| 6 | #17010.00 | 62.0 PK | 68.2 | -6.2 | 1.57 V | 134 | 45.5 | 16.5 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5636.39 | 54.0 PK | 68.2 | -14.2 | 1.68 H | 240 | 50.8 | 3.2 |
| 2 | *5755.00 | 104.7 PK | | | 1.68 H | 240 | 101.4 | 3.3 |
| 3 | *5755.00 | 94.2 AV | | | 1.68 H | 240 | 90.9 | 3.3 |
| 4 | #5985.47 | 51.5 PK | 68.2 | -16.7 | 1.68 H | 240 | 47.8 | 3.7 |
| 5 | 11510.00 | 54.6 PK | 74.0 | -19.4 | 1.70 H | 248 | 41.2 | 13.4 |
| 6 | 11510.00 | 41.6 AV | 54.0 | -12.4 | 1.70 H | 248 | 28.2 | 13.4 |
| 7 | #17265.00 | 59.4 PK | 68.2 | -8.8 | 1.80 H | 351 | 42.6 | 16.8 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5589.56 | 51.8 PK | 68.2 | -16.4 | 1.96 V | 164 | 48.6 | 3.2 |
| 2 | *5755.00 | 102.9 PK | | | 1.96 V | 164 | 99.6 | 3.3 |
| 3 | *5755.00 | 91.7 AV | | | 1.96 V | 164 | 88.4 | 3.3 |
| 4 | #5976.94 | 52.2 PK | 68.2 | -16.0 | 1.96 V | 164 | 48.6 | 3.6 |
| 5 | 11510.00 | 52.9 PK | 74.0 | -21.1 | 1.67 V | 250 | 39.5 | 13.4 |
| 6 | 11510.00 | 40.4 AV | 54.0 | -13.6 | 1.67 V | 250 | 27.0 | 13.4 |
| 7 | #17265.00 | 60.9 PK | 68.2 | -7.3 | 1.57 V | 127 | 44.1 | 16.8 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5608.57 | 52.6 PK | 68.2 | -15.6 | 1.59 H | 250 | 49.3 | 3.3 |
| 2 | *5795.00 | 106.2 PK | | | 1.59 H | 250 | 102.9 | 3.3 |
| 3 | *5795.00 | 95.8 AV | | | 1.59 H | 250 | 92.5 | 3.3 |
| 4 | #5939.71 | 52.3 PK | 68.2 | -15.9 | 1.59 H | 250 | 48.7 | 3.6 |
| 5 | 11590.00 | 54.7 PK | 74.0 | -19.3 | 1.72 H | 248 | 41.3 | 13.4 |
| 6 | 11590.00 | 42.1 AV | 54.0 | -11.9 | 1.72 H | 248 | 28.7 | 13.4 |
| 7 | #17385.00 | 60.0 PK | 68.2 | -8.2 | 1.80 H | 334 | 42.5 | 17.5 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5577.03 | 52.5 PK | 68.2 | -15.7 | 1.92 V | 168 | 49.3 | 3.2 |
| 2 | *5795.00 | 103.2 PK | | | 1.92 V | 168 | 99.9 | 3.3 |
| 3 | *5795.00 | 93.6 AV | | | 1.92 V | 168 | 90.3 | 3.3 |
| 4 | #5982.35 | 53.0 PK | 68.2 | -15.2 | 1.92 V | 168 | 49.3 | 3.7 |
| 5 | 11590.00 | 52.7 PK | 74.0 | -21.3 | 1.68 V | 223 | 39.3 | 13.4 |
| 6 | 11590.00 | 40.0 AV | 54.0 | -14.0 | 1.68 V | 223 | 26.6 | 13.4 |
| 7 | #17385.00 | 60.4 PK | 68.2 | -7.8 | 1.59 V | 110 | 42.9 | 17.5 |

**REMARKS:**

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

## 802.11ac (VHT80)

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 66.5 PK | 74.0 | -7.5 | 1.58 H | 247 | 63.5 | 3.0 |
| 2 | 5150.00 | 53.6 AV | 54.0 | -0.4 | 1.58 H | 247 | 50.6 | 3.0 |
| 3 | *5210.00 | 103.9 PK | | | 1.58 H | 247 | 101.2 | 2.7 |
| 4 | *5210.00 | 93.2 AV | | | 1.58 H | 247 | 90.5 | 2.7 |
| 5 | #10420.00 | 54.4 PK | 68.2 | -13.8 | 1.66 H | 252 | 41.8 | 12.6 |
| 6 | 15630.00 | 59.4 PK | 74.0 | -14.6 | 1.72 H | 333 | 46.7 | 12.7 |
| 7 | 15630.00 | 47.3 AV | 54.0 | -6.7 | 1.72 H | 333 | 34.6 | 12.7 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 64.7 PK | 74.0 | -9.3 | 1.96 V | 179 | 61.7 | 3.0 |
| 2 | 5150.00 | 52.4 AV | 54.0 | -1.6 | 1.96 V | 179 | 49.4 | 3.0 |
| 3 | *5210.00 | 102.2 PK | | | 1.96 V | 179 | 99.5 | 2.7 |
| 4 | *5210.00 | 92.2 AV | | | 1.96 V | 179 | 89.5 | 2.7 |
| 5 | #10420.00 | 53.4 PK | 68.2 | -14.8 | 1.65 V | 250 | 40.8 | 12.6 |
| 6 | 15630.00 | 61.1 PK | 74.0 | -12.9 | 1.56 V | 139 | 48.4 | 12.7 |
| 7 | 15630.00 | 48.7 AV | 54.0 | -5.3 | 1.56 V | 139 | 36.0 | 12.7 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5290.00 | 103.7 PK | | | 1.59 H | 230 | 101.3 | 2.4 |
| 2 | *5290.00 | 92.4 AV | | | 1.59 H | 230 | 90.0 | 2.4 |
| 3 | 5350.00 | 68.8 PK | 74.0 | -5.2 | 1.59 H | 230 | 66.2 | 2.6 |
| 4 | 5350.00 | 52.8 AV | 54.0 | -1.2 | 1.59 H | 230 | 50.2 | 2.6 |
| 5 | #10580.00 | 53.4 PK | 68.2 | -14.8 | 1.60 H | 271 | 40.8 | 12.6 |
| 6 | 15870.00 | 60.4 PK | 74.0 | -13.6 | 1.71 H | 350 | 48.0 | 12.4 |
| 7 | 15870.00 | 48.2 AV | 54.0 | -5.8 | 1.71 H | 350 | 35.8 | 12.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5290.00 | 102.2 PK | | | 1.98 V | 156 | 99.8 | 2.4 |
| 2 | *5290.00 | 91.2 AV | | | 1.98 V | 156 | 88.8 | 2.4 |
| 3 | 5350.00 | 68.5 PK | 74.0 | -5.5 | 1.98 V | 156 | 65.9 | 2.6 |
| 4 | 5350.00 | 52.3 AV | 54.0 | -1.7 | 1.98 V | 156 | 49.7 | 2.6 |
| 5 | #10580.00 | 54.2 PK | 68.2 | -14.0 | 1.68 V | 224 | 41.6 | 12.6 |
| 6 | 15870.00 | 61.1 PK | 74.0 | -12.9 | 1.56 V | 133 | 48.7 | 12.4 |
| 7 | 15870.00 | 48.1 AV | 54.0 | -5.9 | 1.56 V | 133 | 35.7 | 12.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| **1** | **#5470.00** | **68.1 PK** | **68.2** | **-0.1** | **1.68 H** | **230** | **65.2** | **2.9** |
| 2 | *5530.00 | 103.9 PK | | | 1.68 H | 230 | 100.9 | 3.0 |
| 3 | *5530.00 | 93.0 AV | | | 1.68 H | 230 | 90.0 | 3.0 |
| 4 | 11060.00 | 54.1 PK | 74.0 | -19.9 | 1.69 H | 259 | 40.9 | 13.2 |
| 5 | 11060.00 | 41.1 AV | 54.0 | -12.9 | 1.69 H | 259 | 27.9 | 13.2 |
| 6 | #16590.00 | 60.0 PK | 68.2 | -8.2 | 1.72 H | 331 | 44.9 | 15.1 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5470.00 | 67.7 PK | 68.2 | -0.5 | 1.89 V | 178 | 64.8 | 2.9 |
| 2 | *5530.00 | 102.3 PK | | | 1.89 V | 178 | 99.3 | 3.0 |
| 3 | *5530.00 | 91.9 AV | | | 1.89 V | 178 | 88.9 | 3.0 |
| 4 | 11060.00 | 53.8 PK | 74.0 | -20.2 | 1.66 V | 244 | 40.6 | 13.2 |
| 5 | 11060.00 | 41.0 AV | 54.0 | -13.0 | 1.66 V | 244 | 27.8 | 13.2 |
| 6 | #16590.00 | 61.0 PK | 68.2 | -7.2 | 1.48 V | 118 | 45.9 | 15.1 |

**REMARKS:**

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

| CHANNEL | TX Channel 122 | DETECTOR FUNCTION | Peak (PK)<br>Average (AV) |
|---|---|---|---|
| FREQUENCY RANGE | 1GHz ~ 40GHz | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5470.00 | 67.6 PK | 68.2 | -0.6 | 1.64 H | 234 | 64.7 | 2.9 |
| 2 | *5610.00 | 106.4 PK | | | 1.64 H | 234 | 103.1 | 3.3 |
| 3 | *5610.00 | 95.5 AV | | | 1.64 H | 234 | 92.2 | 3.3 |
| 4 | #5725.00 | 65.9 PK | 68.2 | -2.3 | 1.64 H | 234 | 62.6 | 3.3 |
| 5 | 11220.00 | 53.6 PK | 74.0 | -20.4 | 1.67 H | 244 | 40.4 | 13.2 |
| 6 | 11220.00 | 41.2 AV | 54.0 | -12.8 | 1.67 H | 244 | 28.0 | 13.2 |
| 7 | #16830.00 | 61.0 PK | 68.2 | -7.2 | 1.74 H | 355 | 44.4 | 16.6 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5470.00 | 66.3 PK | 68.2 | -1.9 | 2.00 V | 166 | 63.4 | 2.9 |
| 2 | *5610.00 | 105.2 PK | | | 2.00 V | 166 | 101.9 | 3.3 |
| 3 | *5610.00 | 93.8 AV | | | 2.00 V | 166 | 90.5 | 3.3 |
| 4 | #5725.00 | 64.4 PK | 68.2 | -3.8 | 2.00 V | 166 | 61.1 | 3.3 |
| 5 | 11220.00 | 53.2 PK | 74.0 | -20.8 | 1.60 V | 252 | 40.0 | 13.2 |
| 6 | 11220.00 | 40.7 AV | 54.0 | -13.3 | 1.60 V | 252 | 27.5 | 13.2 |
| 7 | #16830.00 | 62.3 PK | 68.2 | -5.9 | 1.50 V | 121 | 45.7 | 16.6 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5643.63 | 62.5 PK | 68.2 | -5.7 | 1.57 H | 244 | 59.3 | 3.2 |
| 2 | *5775.00 | 100.6 PK | | | 1.57 H | 244 | 97.2 | 3.4 |
| 3 | *5775.00 | 89.7 AV | | | 1.57 H | 244 | 86.3 | 3.4 |
| 4 | #5985.57 | 52.4 PK | 68.2 | -15.8 | 1.57 H | 244 | 48.7 | 3.7 |
| 5 | 11550.00 | 55.0 PK | 74.0 | -19.0 | 1.61 H | 269 | 41.7 | 13.3 |
| 6 | 11550.00 | 41.9 AV | 54.0 | -12.1 | 1.61 H | 269 | 28.6 | 13.3 |
| 7 | #17325.00 | 60.3 PK | 68.2 | -7.9 | 1.77 H | 344 | 43.2 | 17.1 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5633.43 | 58.7 PK | 68.2 | -9.5 | 1.92 V | 157 | 55.5 | 3.2 |
| 2 | *5775.00 | 99.7 PK | | | 1.92 V | 157 | 96.3 | 3.4 |
| 3 | *5775.00 | 88.6 AV | | | 1.92 V | 157 | 85.2 | 3.4 |
| 4 | #5990.74 | 52.2 PK | 68.2 | -16.0 | 1.92 V | 157 | 48.5 | 3.7 |
| 5 | 11550.00 | 53.9 PK | 74.0 | -20.1 | 1.67 V | 224 | 40.6 | 13.3 |
| 6 | 11550.00 | 40.8 AV | 54.0 | -13.2 | 1.67 V | 224 | 27.5 | 13.3 |
| 7 | #17325.00 | 61.2 PK | 68.2 | -7.0 | 1.48 V | 127 | 44.1 | 17.1 |

**REMARKS:**

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

4.1.8 Test Results (Dipole Antenna)

**Above 1GHz Data:**

**802.11a**

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **NO.** | **FREQ. (MHz)** | **EMISSION LEVEL (dBuV/m)** | **LIMIT (dBuV/m)** | **MARGIN (dB)** | **ANTENNA HEIGHT (m)** | **TABLE ANGLE (Degree)** | **RAW VALUE (dBuV)** | **CORRECTION FACTOR (dB/m)** |
| 1 | 5150.00 | 53.7 PK | 74.0 | -20.3 | 1.27 H | 321 | 50.7 | 3.0 |
| 2 | 5150.00 | 40.6 AV | 54.0 | -13.4 | 1.27 H | 321 | 37.6 | 3.0 |
| 3 | *5180.00 | 100.9 PK | | | 1.27 H | 321 | 98.1 | 2.8 |
| 4 | *5180.00 | 90.8 AV | | | 1.27 H | 321 | 88.0 | 2.8 |
| 5 | #10360.00 | 45.1 PK | 68.2 | -23.1 | 1.16 H | 31 | 32.7 | 12.4 |
| 6 | 15540.00 | 50.0 PK | 74.0 | -24.0 | 1.32 H | 298 | 37.2 | 12.8 |
| 7 | 15540.00 | 37.8 AV | 54.0 | -16.2 | 1.32 H | 298 | 25.0 | 12.8 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| **NO.** | **FREQ. (MHz)** | **EMISSION LEVEL (dBuV/m)** | **LIMIT (dBuV/m)** | **MARGIN (dB)** | **ANTENNA HEIGHT (m)** | **TABLE ANGLE (Degree)** | **RAW VALUE (dBuV)** | **CORRECTION FACTOR (dB/m)** |
| 1 | 5150.00 | 59.7 PK | 74.0 | -14.3 | 1.37 V | 181 | 56.7 | 3.0 |
| 2 | 5150.00 | 46.8 AV | 54.0 | -7.2 | 1.37 V | 181 | 43.8 | 3.0 |
| 3 | *5180.00 | 109.1 PK | | | 1.37 V | 181 | 106.3 | 2.8 |
| 4 | *5180.00 | 99.1 AV | | | 1.37 V | 181 | 96.3 | 2.8 |
| 5 | #10360.00 | 48.3 PK | 68.2 | -19.9 | 1.34 V | 160 | 35.9 | 12.4 |
| 6 | 15540.00 | 50.2 PK | 74.0 | -23.8 | 1.37 V | 143 | 37.4 | 12.8 |
| 7 | 15540.00 | 38.3 AV | 54.0 | -15.7 | 1.37 V | 143 | 25.5 | 12.8 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 54.1 PK | 74.0 | -19.9 | 1.32 H | 308 | 51.1 | 3.0 |
| 2 | 5150.00 | 41.4 AV | 54.0 | -12.6 | 1.32 H | 308 | 38.4 | 3.0 |
| 3 | *5200.00 | 103.0 PK | | | 1.32 H | 308 | 100.3 | 2.7 |
| 4 | *5200.00 | 93.1 AV | | | 1.32 H | 308 | 90.4 | 2.7 |
| 5 | #10400.00 | 46.2 PK | 68.2 | -22.0 | 1.16 H | 16 | 33.7 | 12.5 |
| 6 | 15600.00 | 51.3 PK | 74.0 | -22.7 | 1.37 H | 283 | 38.5 | 12.8 |
| 7 | 15600.00 | 38.3 AV | 54.0 | -15.7 | 1.37 H | 283 | 25.5 | 12.8 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 59.5 PK | 74.0 | -14.5 | 1.29 V | 180 | 56.5 | 3.0 |
| 2 | 5150.00 | 47.1 AV | 54.0 | -6.9 | 1.29 V | 180 | 44.1 | 3.0 |
| 3 | *5200.00 | 111.2 PK | | | 1.29 V | 180 | 108.5 | 2.7 |
| 4 | *5200.00 | 101.4 AV | | | 1.29 V | 180 | 98.7 | 2.7 |
| 5 | #10400.00 | 49.3 PK | 68.2 | -18.9 | 1.33 V | 164 | 36.8 | 12.5 |
| 6 | 15600.00 | 51.3 PK | 74.0 | -22.7 | 1.36 V | 129 | 38.5 | 12.8 |
| 7 | 15600.00 | 39.2 AV | 54.0 | -14.8 | 1.36 V | 129 | 26.4 | 12.8 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5240.00 | 102.6 PK | | | 1.32 H | 295 | 100.1 | 2.5 |
| 2 | *5240.00 | 92.7 AV | | | 1.32 H | 295 | 90.2 | 2.5 |
| 3 | 5350.00 | 51.1 PK | 74.0 | -22.9 | 1.32 H | 295 | 48.5 | 2.6 |
| 4 | 5350.00 | 38.4 AV | 54.0 | -15.6 | 1.32 H | 295 | 35.8 | 2.6 |
| 5 | #10480.00 | 45.6 PK | 68.2 | -22.6 | 1.16 H | 21 | 32.6 | 13.0 |
| 6 | 15720.00 | 51.2 PK | 74.0 | -22.8 | 1.32 H | 279 | 38.8 | 12.4 |
| 7 | 15720.00 | 38.3 AV | 54.0 | -15.7 | 1.32 H | 279 | 25.9 | 12.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5240.00 | 111.5 PK | | | 1.32 V | 180 | 109.0 | 2.5 |
| 2 | *5240.00 | 101.5 AV | | | 1.32 V | 180 | 99.0 | 2.5 |
| 3 | 5350.00 | 51.9 PK | 74.0 | -22.1 | 1.32 V | 180 | 49.3 | 2.6 |
| 4 | 5350.00 | 39.2 AV | 54.0 | -14.8 | 1.32 V | 180 | 36.6 | 2.6 |
| 5 | #10480.00 | 49.4 PK | 68.2 | -18.8 | 1.28 V | 175 | 36.4 | 13.0 |
| 6 | 15720.00 | 51.7 PK | 74.0 | -22.3 | 1.32 V | 128 | 39.3 | 12.4 |
| 7 | 15720.00 | 39.6 AV | 54.0 | -14.4 | 1.32 V | 128 | 27.2 | 12.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 48.9 PK | 74.0 | -25.1 | 1.27 H | 298 | 45.9 | 3.0 |
| 2 | 5150.00 | 37.5 AV | 54.0 | -16.5 | 1.27 H | 298 | 34.5 | 3.0 |
| 3 | *5260.00 | 102.0 PK | | | 1.27 H | 298 | 99.6 | 2.4 |
| 4 | *5260.00 | 92.4 AV | | | 1.27 H | 298 | 90.0 | 2.4 |
| 5 | #10520.00 | 44.9 PK | 68.2 | -23.3 | 1.22 H | 30 | 32.0 | 12.9 |
| 6 | 15780.00 | 48.7 PK | 74.0 | -25.3 | 1.40 H | 278 | 36.2 | 12.5 |
| 7 | 15780.00 | 37.6 AV | 54.0 | -16.4 | 1.40 H | 278 | 25.1 | 12.5 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 49.1 PK | 74.0 | -24.9 | 1.18 V | 181 | 46.1 | 3.0 |
| 2 | 5150.00 | 37.8 AV | 54.0 | -16.2 | 1.18 V | 181 | 34.8 | 3.0 |
| 3 | *5260.00 | 110.9 PK | | | 1.18 V | 181 | 108.5 | 2.4 |
| 4 | *5260.00 | 101.0 AV | | | 1.18 V | 181 | 98.6 | 2.4 |
| 5 | #10520.00 | 49.9 PK | 68.2 | -18.3 | 1.32 V | 142 | 37.0 | 12.9 |
| 6 | 15780.00 | 50.7 PK | 74.0 | -23.3 | 1.39 V | 109 | 38.2 | 12.5 |
| 7 | 15780.00 | 39.0 AV | 54.0 | -15.0 | 1.39 V | 109 | 26.5 | 12.5 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5300.00 | 101.8 PK | | | 1.32 H | 288 | 99.3 | 2.5 |
| 2 | *5300.00 | 91.2 AV | | | 1.32 H | 288 | 88.7 | 2.5 |
| 3 | 10600.00 | 44.9 PK | 74.0 | -29.1 | 1.26 H | 31 | 32.5 | 12.4 |
| 4 | 10600.00 | 32.6 AV | 54.0 | -21.4 | 1.26 H | 31 | 20.2 | 12.4 |
| 5 | 15900.00 | 48.7 PK | 74.0 | -25.3 | 1.35 H | 262 | 36.4 | 12.3 |
| 6 | 15900.00 | 37.4 AV | 54.0 | -16.6 | 1.35 H | 262 | 25.1 | 12.3 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5300.00 | 110.7 PK | | | 1.21 V | 183 | 108.2 | 2.5 |
| 2 | *5300.00 | 100.8 AV | | | 1.21 V | 183 | 98.3 | 2.5 |
| 3 | 10600.00 | 49.6 PK | 74.0 | -24.4 | 1.29 V | 155 | 37.2 | 12.4 |
| 4 | 10600.00 | 36.7 AV | 54.0 | -17.3 | 1.29 V | 155 | 24.3 | 12.4 |
| 5 | 15900.00 | 51.1 PK | 74.0 | -22.9 | 1.34 V | 105 | 38.8 | 12.3 |
| 6 | 15900.00 | 39.1 AV | 54.0 | -14.9 | 1.34 V | 105 | 26.8 | 12.3 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5320.00 | 100.9 PK | | | 1.31 H | 274 | 98.4 | 2.5 |
| 2 | *5320.00 | 90.5 AV | | | 1.31 H | 274 | 88.0 | 2.5 |
| 3 | 5350.00 | 60.2 PK | 74.0 | -13.8 | 1.31 H | 274 | 57.6 | 2.6 |
| 4 | 5350.00 | 45.3 AV | 54.0 | -8.7 | 1.31 H | 274 | 42.7 | 2.6 |
| 5 | 10640.00 | 45.7 PK | 74.0 | -28.3 | 1.29 H | 45 | 33.1 | 12.6 |
| 6 | 10640.00 | 33.1 AV | 54.0 | -20.9 | 1.29 H | 45 | 20.5 | 12.6 |
| 7 | 15960.00 | 49.2 PK | 74.0 | -24.8 | 1.35 H | 276 | 36.7 | 12.5 |
| 8 | 15960.00 | 37.9 AV | 54.0 | -16.1 | 1.35 H | 276 | 25.4 | 12.5 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5320.00 | 109.1 PK | | | 1.40 V | 181 | 106.6 | 2.5 |
| 2 | *5320.00 | 98.8 AV | | | 1.40 V | 181 | 96.3 | 2.5 |
| 3 | 5350.00 | 61.1 PK | 74.0 | -12.9 | 1.40 V | 181 | 58.5 | 2.6 |
| 4 | 5350.00 | 46.1 AV | 54.0 | -7.9 | 1.40 V | 181 | 43.5 | 2.6 |
| 5 | 10640.00 | 49.8 PK | 74.0 | -24.2 | 1.23 V | 146 | 37.2 | 12.6 |
| 6 | 10640.00 | 37.1 AV | 54.0 | -16.9 | 1.23 V | 146 | 24.5 | 12.6 |
| 7 | 15960.00 | 51.1 PK | 74.0 | -22.9 | 1.30 V | 114 | 38.6 | 12.5 |
| 8 | 15960.00 | 39.2 AV | 54.0 | -14.8 | 1.30 V | 114 | 26.7 | 12.5 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 55.4 PK | 74.0 | -18.6 | 1.52 H | 142 | 52.5 | 2.9 |
| 2 | 5460.00 | 42.3 AV | 54.0 | -11.7 | 1.52 H | 142 | 39.4 | 2.9 |
| 3 | #5470.00 | 60.1 PK | 68.2 | -8.1 | 1.52 H | 142 | 57.2 | 2.9 |
| 4 | *5500.00 | 100.5 PK | | | 1.52 H | 142 | 97.6 | 2.9 |
| 5 | *5500.00 | 89.8 AV | | | 1.52 H | 142 | 86.9 | 2.9 |
| 6 | 11000.00 | 45.8 PK | 74.0 | -28.2 | 1.25 H | 42 | 32.6 | 13.2 |
| 7 | 11000.00 | 33.1 AV | 54.0 | -20.9 | 1.25 H | 42 | 19.9 | 13.2 |
| 8 | #16500.00 | 50.8 PK | 68.2 | -17.4 | 1.34 H | 310 | 35.8 | 15.0 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 57.3 PK | 74.0 | -16.7 | 1.41 V | 172 | 54.4 | 2.9 |
| 2 | 5460.00 | 44.2 AV | 54.0 | -9.8 | 1.41 V | 172 | 41.3 | 2.9 |
| 3 | #5470.00 | 62.6 PK | 68.2 | -5.6 | 1.41 V | 172 | 59.7 | 2.9 |
| 4 | *5500.00 | 108.7 PK | | | 1.41 V | 172 | 105.8 | 2.9 |
| 5 | *5500.00 | 98.1 AV | | | 1.41 V | 172 | 95.2 | 2.9 |
| 6 | 11000.00 | 49.1 PK | 74.0 | -24.9 | 1.26 V | 127 | 35.9 | 13.2 |
| 7 | 11000.00 | 36.5 AV | 54.0 | -17.5 | 1.26 V | 127 | 23.3 | 13.2 |
| 8 | #16500.00 | 50.7 PK | 68.2 | -17.5 | 1.31 V | 138 | 35.7 | 15.0 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5580.00 | 101.5 PK | | | 1.49 H | 138 | 98.3 | 3.2 |
| 2 | *5580.00 | 91.1 AV | | | 1.49 H | 138 | 87.9 | 3.2 |
| 3 | 11160.00 | 45.6 PK | 74.0 | -28.4 | 1.22 H | 28 | 32.5 | 13.1 |
| 4 | 11160.00 | 33.2 AV | 54.0 | -20.8 | 1.22 H | 28 | 20.1 | 13.1 |
| 5 | #16740.00 | 51.1 PK | 68.2 | -17.1 | 1.36 H | 315 | 34.7 | 16.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5580.00 | 109.7 PK | | | 1.23 V | 179 | 106.5 | 3.2 |
| 2 | *5580.00 | 99.4 AV | | | 1.23 V | 179 | 96.2 | 3.2 |
| 3 | 11160.00 | 49.5 PK | 74.0 | -24.5 | 1.24 V | 132 | 36.4 | 13.1 |
| 4 | 11160.00 | 36.7 AV | 54.0 | -17.3 | 1.24 V | 132 | 23.6 | 13.1 |
| 5 | #16740.00 | 51.1 PK | 68.2 | -17.1 | 1.35 V | 152 | 34.7 | 16.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5700.00 | 100.8 PK | | | 1.45 H | 148 | 97.4 | 3.4 |
| 2 | *5700.00 | 90.2 AV | | | 1.45 H | 148 | 86.8 | 3.4 |
| 3 | #5725.00 | 60.1 PK | 68.2 | -8.1 | 1.45 H | 148 | 56.8 | 3.3 |
| 4 | 11400.00 | 45.9 PK | 74.0 | -28.1 | 1.27 H | 15 | 32.4 | 13.5 |
| 5 | 11400.00 | 33.6 AV | 54.0 | -20.4 | 1.27 H | 15 | 20.1 | 13.5 |
| 6 | #17100.00 | 51.2 PK | 68.2 | -17.0 | 1.40 H | 321 | 35.1 | 16.1 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5700.00 | 109.0 PK | | | 1.01 V | 175 | 105.6 | 3.4 |
| 2 | *5700.00 | 98.5 AV | | | 1.01 V | 175 | 95.1 | 3.4 |
| 3 | #5725.00 | 62.4 PK | 68.2 | -5.8 | 1.01 V | 175 | 59.1 | 3.3 |
| 4 | 11400.00 | 49.8 PK | 74.0 | -24.2 | 1.26 V | 134 | 36.3 | 13.5 |
| 5 | 11400.00 | 37.2 AV | 54.0 | -16.8 | 1.26 V | 134 | 23.7 | 13.5 |
| 6 | #17100.00 | 51.7 PK | 68.2 | -16.5 | 1.40 V | 159 | 35.6 | 16.1 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5635.18 | 49.5 PK | 68.2 | -18.7 | 1.45 H | 144 | 46.3 | 3.2 |
| 2 | *5745.00 | 101.2 PK | | | 1.45 H | 144 | 97.9 | 3.3 |
| 3 | *5745.00 | 90.7 AV | | | 1.45 H | 144 | 87.4 | 3.3 |
| 4 | #5928.62 | 49.7 PK | 68.2 | -18.5 | 1.45 H | 144 | 46.1 | 3.6 |
| 5 | 11490.00 | 46.1 PK | 74.0 | -27.9 | 1.23 H | 10 | 32.7 | 13.4 |
| 6 | 11490.00 | 33.8 AV | 54.0 | -20.2 | 1.23 H | 10 | 20.4 | 13.4 |
| 7 | #17235.00 | 51.4 PK | 68.2 | -16.8 | 1.37 H | 328 | 34.7 | 16.7 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5620.06 | 51.7 PK | 68.2 | -16.5 | 1.49 V | 15 | 48.4 | 3.3 |
| 2 | *5745.00 | 109.8 PK | | | 1.49 V | 15 | 106.5 | 3.3 |
| 3 | *5745.00 | 99.7 AV | | | 1.49 V | 15 | 96.4 | 3.3 |
| 4 | #5953.04 | 54.6 PK | 68.2 | -13.6 | 1.49 V | 15 | 51.1 | 3.5 |
| 5 | 11490.00 | 49.5 PK | 74.0 | -24.5 | 1.28 V | 154 | 36.1 | 13.4 |
| 6 | 11490.00 | 36.9 AV | 54.0 | -17.1 | 1.28 V | 154 | 23.5 | 13.4 |
| 7 | #17235.00 | 51.9 PK | 68.2 | -16.3 | 1.40 V | 139 | 35.2 | 16.7 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5632.42 | 51.0 PK | 68.2 | -17.2 | 1.47 H | 146 | 47.8 | 3.2 |
| 2 | *5785.00 | 103.4 PK | | | 1.47 H | 146 | 100.1 | 3.3 |
| 3 | *5785.00 | 93.1 AV | | | 1.47 H | 146 | 89.8 | 3.3 |
| 4 | #5966.17 | 50.4 PK | 68.2 | -17.8 | 1.47 H | 146 | 46.9 | 3.5 |
| 5 | 11570.00 | 45.9 PK | 74.0 | -28.1 | 1.25 H | 7 | 32.5 | 13.4 |
| 6 | 11570.00 | 33.4 AV | 54.0 | -20.6 | 1.25 H | 7 | 20.0 | 13.4 |
| 7 | #17355.00 | 51.2 PK | 68.2 | -17.0 | 1.35 H | 312 | 33.9 | 17.3 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5605.68 | 51.2 PK | 68.2 | -17.0 | 1.48 V | 16 | 47.9 | 3.3 |
| 2 | *5785.00 | 111.3 PK | | | 1.48 V | 16 | 108.0 | 3.3 |
| 3 | *5785.00 | 101.3 AV | | | 1.48 V | 16 | 98.0 | 3.3 |
| 4 | #5952.87 | 52.8 PK | 68.2 | -15.4 | 1.48 V | 16 | 49.3 | 3.5 |
| 5 | 11570.00 | 48.9 PK | 74.0 | -25.1 | 1.37 V | 139 | 35.5 | 13.4 |
| 6 | 11570.00 | 36.5 AV | 54.0 | -17.5 | 1.37 V | 139 | 23.1 | 13.4 |
| 7 | #17355.00 | 52.4 PK | 68.2 | -15.8 | 1.42 V | 142 | 35.1 | 17.3 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5640.05 | 49.8 PK | 68.2 | -18.4 | 1.48 H | 145 | 46.6 | 3.2 |
| 2 | *5825.00 | 101.5 PK | | | 1.48 H | 145 | 98.0 | 3.5 |
| 3 | *5825.00 | 91.1 AV | | | 1.48 H | 145 | 87.6 | 3.5 |
| 4 | #5972.98 | 49.8 PK | 68.2 | -18.4 | 1.48 H | 145 | 46.2 | 3.6 |
| 5 | 11650.00 | 46.3 PK | 74.0 | -27.7 | 1.22 H | 21 | 33.0 | 13.3 |
| 6 | 11650.00 | 33.9 AV | 54.0 | -20.1 | 1.22 H | 21 | 20.6 | 13.3 |
| 7 | #17475.00 | 51.4 PK | 68.2 | -16.8 | 1.33 H | 312 | 33.2 | 18.2 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5612.15 | 50.0 PK | 68.2 | -18.2 | 1.29 V | 19 | 46.7 | 3.3 |
| 2 | *5825.00 | 110.3 PK | | | 1.29 V | 19 | 106.8 | 3.5 |
| 3 | *5825.00 | 99.9 AV | | | 1.29 V | 19 | 96.4 | 3.5 |
| 4 | #5931.21 | 51.8 PK | 68.2 | -16.4 | 1.29 V | 19 | 48.2 | 3.6 |
| 5 | 11650.00 | 49.4 PK | 74.0 | -24.6 | 1.31 V | 148 | 36.1 | 13.3 |
| 6 | 11650.00 | 37.0 AV | 54.0 | -17.0 | 1.31 V | 148 | 23.7 | 13.3 |
| 7 | #17475.00 | 51.8 PK | 68.2 | -16.4 | 1.43 V | 146 | 33.6 | 18.2 |

**REMARKS:**

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

## 802.11ac (VHT20)

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 57.4 PK | 74.0 | -16.6 | 1.22 H | 324 | 54.4 | 3.0 |
| 2 | 5150.00 | 44.3 AV | 54.0 | -9.7 | 1.22 H | 324 | 41.3 | 3.0 |
| 3 | *5180.00 | 102.3 PK | | | 1.22 H | 324 | 99.5 | 2.8 |
| 4 | *5180.00 | 92.1 AV | | | 1.22 H | 324 | 89.3 | 2.8 |
| 5 | #10360.00 | 46.6 PK | 68.2 | -21.6 | 1.24 H | 15 | 34.2 | 12.4 |
| 6 | 15540.00 | 50.1 PK | 74.0 | -23.9 | 1.33 H | 287 | 37.3 | 12.8 |
| 7 | 15540.00 | 37.7 AV | 54.0 | -16.3 | 1.33 H | 287 | 24.9 | 12.8 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 59.5 PK | 74.0 | -14.5 | 1.15 V | 220 | 56.5 | 3.0 |
| 2 | 5150.00 | 46.5 AV | 54.0 | -7.5 | 1.15 V | 220 | 43.5 | 3.0 |
| 3 | *5180.00 | 110.5 PK | | | 1.15 V | 220 | 107.7 | 2.8 |
| 4 | *5180.00 | 100.3 AV | | | 1.15 V | 220 | 97.5 | 2.8 |
| 5 | #10360.00 | 48.9 PK | 68.2 | -19.3 | 1.09 V | 167 | 36.5 | 12.4 |
| 6 | 15540.00 | 50.5 PK | 74.0 | -23.5 | 1.42 V | 157 | 37.7 | 12.8 |
| 7 | 15540.00 | 38.7 AV | 54.0 | -15.3 | 1.42 V | 157 | 25.9 | 12.8 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 60.1 PK | 74.0 | -13.9 | 1.26 H | 340 | 57.1 | 3.0 |
| 2 | 5150.00 | 46.4 AV | 54.0 | -7.6 | 1.26 H | 340 | 43.4 | 3.0 |
| 3 | *5200.00 | 105.5 PK | | | 1.26 H | 340 | 102.8 | 2.7 |
| 4 | *5200.00 | 95.5 AV | | | 1.26 H | 340 | 92.8 | 2.7 |
| 5 | #10400.00 | 47.2 PK | 68.2 | -21.0 | 1.29 H | 6 | 34.7 | 12.5 |
| 6 | 15600.00 | 48.4 PK | 74.0 | -25.6 | 1.35 H | 360 | 35.6 | 12.8 |
| 7 | 15600.00 | 37.1 AV | 54.0 | -16.9 | 1.35 H | 360 | 24.3 | 12.8 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 62.2 PK | 74.0 | -11.8 | 1.04 V | 219 | 59.2 | 3.0 |
| 2 | 5150.00 | 48.0 AV | 54.0 | -6.0 | 1.04 V | 219 | 45.0 | 3.0 |
| 3 | *5200.00 | 113.7 PK | | | 1.04 V | 219 | 111.0 | 2.7 |
| 4 | *5200.00 | 103.8 AV | | | 1.04 V | 219 | 101.1 | 2.7 |
| 5 | #10400.00 | 49.4 PK | 68.2 | -18.8 | 1.15 V | 172 | 36.9 | 12.5 |
| 6 | 15600.00 | 51.1 PK | 74.0 | -22.9 | 1.37 V | 150 | 38.3 | 12.8 |
| 7 | 15600.00 | 39.2 AV | 54.0 | -14.8 | 1.37 V | 150 | 26.4 | 12.8 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 50.6 PK | 74.0 | -23.4 | 1.26 H | 348 | 47.6 | 3.0 |
| 2 | 5150.00 | 38.6 AV | 54.0 | -15.4 | 1.26 H | 348 | 35.6 | 3.0 |
| 3 | *5240.00 | 107.0 PK | | | 1.26 H | 348 | 104.5 | 2.5 |
| 4 | *5240.00 | 96.6 AV | | | 1.26 H | 348 | 94.1 | 2.5 |
| 5 | 5350.00 | 49.6 PK | 74.0 | -24.4 | 1.26 H | 348 | 47.0 | 2.6 |
| 6 | 5350.00 | 37.1 AV | 54.0 | -16.9 | 1.26 H | 348 | 34.5 | 2.6 |
| 7 | #10480.00 | 47.8 PK | 68.2 | -20.4 | 1.24 H | 8 | 34.8 | 13.0 |
| 8 | 15720.00 | 47.6 PK | 74.0 | -26.4 | 1.36 H | 360 | 35.2 | 12.4 |
| 9 | 15720.00 | 37.2 AV | 54.0 | -16.8 | 1.36 H | 360 | 24.8 | 12.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 52.5 PK | 74.0 | -21.5 | 1.08 V | 220 | 49.5 | 3.0 |
| 2 | 5150.00 | 40.0 AV | 54.0 | -14.0 | 1.08 V | 220 | 37.0 | 3.0 |
| 3 | *5240.00 | 115.2 PK | | | 1.08 V | 220 | 112.7 | 2.5 |
| 4 | *5240.00 | 104.9 AV | | | 1.08 V | 220 | 102.4 | 2.5 |
| 5 | 5350.00 | 51.4 PK | 74.0 | -22.6 | 1.08 V | 220 | 48.8 | 2.6 |
| 6 | 5350.00 | 39.2 AV | 54.0 | -14.8 | 1.08 V | 220 | 36.6 | 2.6 |
| 7 | #10480.00 | 50.8 PK | 68.2 | -17.4 | 1.11 V | 172 | 37.8 | 13.0 |
| 8 | 15720.00 | 49.9 PK | 74.0 | -24.1 | 1.37 V | 169 | 37.5 | 12.4 |
| 9 | 15720.00 | 38.2 AV | 54.0 | -15.8 | 1.37 V | 169 | 25.8 | 12.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 49.2 PK | 74.0 | -24.8 | 1.22 H | 343 | 46.2 | 3.0 |
| 2 | 5150.00 | 36.4 AV | 54.0 | -17.6 | 1.22 H | 343 | 33.4 | 3.0 |
| 3 | *5260.00 | 107.0 PK | | | 1.22 H | 343 | 104.6 | 2.4 |
| 4 | *5260.00 | 96.8 AV | | | 1.22 H | 343 | 94.4 | 2.4 |
| 5 | 5350.00 | 52.1 PK | 74.0 | -21.9 | 1.22 H | 343 | 49.5 | 2.6 |
| 6 | 5350.00 | 38.3 AV | 54.0 | -15.7 | 1.22 H | 343 | 35.7 | 2.6 |
| 7 | #10520.00 | 47.8 PK | 68.2 | -20.4 | 1.20 H | 4 | 34.9 | 12.9 |
| 8 | 15780.00 | 48.1 PK | 74.0 | -25.9 | 1.33 H | 360 | 35.6 | 12.5 |
| 9 | 15780.00 | 36.4 AV | 54.0 | -17.6 | 1.33 H | 360 | 23.9 | 12.5 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 50.3 PK | 74.0 | -23.7 | 1.00 V | 220 | 47.3 | 3.0 |
| 2 | 5150.00 | 37.9 AV | 54.0 | -16.1 | 1.00 V | 220 | 34.9 | 3.0 |
| 3 | *5260.00 | 115.2 PK | | | 1.00 V | 220 | 112.8 | 2.4 |
| 4 | *5260.00 | 105.1 AV | | | 1.00 V | 220 | 102.7 | 2.4 |
| 5 | 5350.00 | 55.4 PK | 74.0 | -18.6 | 1.00 V | 220 | 52.8 | 2.6 |
| 6 | 5350.00 | 40.7 AV | 54.0 | -13.3 | 1.00 V | 220 | 38.1 | 2.6 |
| 7 | #10520.00 | 50.7 PK | 68.2 | -17.5 | 1.11 V | 169 | 37.8 | 12.9 |
| 8 | 15780.00 | 50.4 PK | 74.0 | -23.6 | 1.44 V | 154 | 37.9 | 12.5 |
| 9 | 15780.00 | 38.5 AV | 54.0 | -15.5 | 1.44 V | 154 | 26.0 | 12.5 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5300.00 | 105.8 PK | | | 1.24 H | 358 | 103.3 | 2.5 |
| 2 | *5300.00 | 95.6 AV | | | 1.24 H | 358 | 93.1 | 2.5 |
| 3 | 10600.00 | 49.5 PK | 74.0 | -24.5 | 1.25 H | 10 | 37.1 | 12.4 |
| 4 | 10600.00 | 34.5 AV | 54.0 | -19.5 | 1.25 H | 10 | 22.1 | 12.4 |
| 5 | 15900.00 | 48.7 PK | 74.0 | -25.3 | 1.39 H | 356 | 36.4 | 12.3 |
| 6 | 15900.00 | 36.7 AV | 54.0 | -17.3 | 1.39 H | 356 | 24.4 | 12.3 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5300.00 | 114.0 PK | | | 1.10 V | 219 | 111.5 | 2.5 |
| 2 | *5300.00 | 103.9 AV | | | 1.10 V | 219 | 101.4 | 2.5 |
| 3 | 10600.00 | 50.1 PK | 74.0 | -23.9 | 1.14 V | 163 | 37.7 | 12.4 |
| 4 | 10600.00 | 36.1 AV | 54.0 | -17.9 | 1.14 V | 163 | 23.7 | 12.4 |
| 5 | 15900.00 | 50.5 PK | 74.0 | -23.5 | 1.47 V | 165 | 38.2 | 12.3 |
| 6 | 15900.00 | 38.4 AV | 54.0 | -15.6 | 1.47 V | 165 | 26.1 | 12.3 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5320.00 | 103.4 PK | | | 1.20 H | 360 | 100.9 | 2.5 |
| 2 | *5320.00 | 92.6 AV | | | 1.20 H | 360 | 90.1 | 2.5 |
| 3 | 5350.00 | 56.7 PK | 74.0 | -17.3 | 1.20 H | 360 | 54.1 | 2.6 |
| 4 | 5350.00 | 43.2 AV | 54.0 | -10.8 | 1.20 H | 360 | 40.6 | 2.6 |
| 5 | 10640.00 | 49.1 PK | 74.0 | -24.9 | 1.20 H | 17 | 36.5 | 12.6 |
| 6 | 10640.00 | 34.3 AV | 54.0 | -19.7 | 1.20 H | 17 | 21.7 | 12.6 |
| 7 | 15960.00 | 48.2 PK | 74.0 | -25.8 | 1.44 H | 351 | 35.7 | 12.5 |
| 8 | 15960.00 | 36.2 AV | 54.0 | -17.8 | 1.44 H | 351 | 23.7 | 12.5 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5320.00 | 111.6 PK | | | 1.04 V | 218 | 109.1 | 2.5 |
| 2 | *5320.00 | 100.9 AV | | | 1.04 V | 218 | 98.4 | 2.5 |
| 3 | 5350.00 | 58.9 PK | 74.0 | -15.1 | 1.04 V | 218 | 56.3 | 2.6 |
| 4 | 5350.00 | 45.5 AV | 54.0 | -8.5 | 1.04 V | 218 | 42.9 | 2.6 |
| 5 | 10640.00 | 50.6 PK | 74.0 | -23.4 | 1.19 V | 178 | 38.0 | 12.6 |
| 6 | 10640.00 | 36.5 AV | 54.0 | -17.5 | 1.19 V | 178 | 23.9 | 12.6 |
| 7 | 15960.00 | 50.2 PK | 74.0 | -23.8 | 1.42 V | 160 | 37.7 | 12.5 |
| 8 | 15960.00 | 38.7 AV | 54.0 | -15.3 | 1.42 V | 160 | 26.2 | 12.5 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 56.3 PK | 74.0 | -17.7 | 1.21 H | 360 | 53.4 | 2.9 |
| 2 | 5460.00 | 43.1 AV | 54.0 | -10.9 | 1.21 H | 360 | 40.2 | 2.9 |
| 3 | #5470.00 | 58.4 PK | 68.2 | -9.8 | 1.21 H | 360 | 55.5 | 2.9 |
| 4 | *5500.00 | 104.3 PK | | | 1.21 H | 360 | 101.4 | 2.9 |
| 5 | *5500.00 | 93.5 AV | | | 1.21 H | 360 | 90.6 | 2.9 |
| 6 | 11000.00 | 47.8 PK | 74.0 | -26.2 | 1.18 H | 24 | 34.6 | 13.2 |
| 7 | 11000.00 | 34.5 AV | 54.0 | -19.5 | 1.18 H | 24 | 21.3 | 13.2 |
| 8 | #16500.00 | 50.6 PK | 68.2 | -17.6 | 1.43 H | 339 | 35.6 | 15.0 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 58.5 PK | 74.0 | -15.5 | 1.31 V | 216 | 55.6 | 2.9 |
| 2 | 5460.00 | 45.2 AV | 54.0 | -8.8 | 1.31 V | 216 | 42.3 | 2.9 |
| 3 | #5470.00 | 61.0 PK | 68.2 | -7.2 | 1.31 V | 216 | 58.1 | 2.9 |
| 4 | *5500.00 | 112.5 PK | | | 1.31 V | 216 | 109.6 | 2.9 |
| 5 | *5500.00 | 101.8 AV | | | 1.31 V | 216 | 98.9 | 2.9 |
| 6 | 11000.00 | 50.5 PK | 74.0 | -23.5 | 1.15 V | 185 | 37.3 | 13.2 |
| 7 | 11000.00 | 36.6 AV | 54.0 | -17.4 | 1.15 V | 185 | 23.4 | 13.2 |
| 8 | #16500.00 | 52.9 PK | 68.2 | -15.3 | 1.41 V | 173 | 37.9 | 15.0 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5580.00 | 107.3 PK | | | 1.23 H | 360 | 104.1 | 3.2 |
| 2 | *5580.00 | 96.3 AV | | | 1.23 H | 360 | 93.1 | 3.2 |
| 3 | 11160.00 | 48.4 PK | 74.0 | -25.6 | 1.19 H | 17 | 35.3 | 13.1 |
| 4 | 11160.00 | 34.6 AV | 54.0 | -19.4 | 1.19 H | 17 | 21.5 | 13.1 |
| 5 | #16740.00 | 51.1 PK | 68.2 | -17.1 | 1.41 H | 327 | 34.7 | 16.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5580.00 | 115.5 PK | | | 1.30 V | 213 | 112.3 | 3.2 |
| 2 | *5580.00 | 104.6 AV | | | 1.30 V | 213 | 101.4 | 3.2 |
| 3 | 11160.00 | 50.7 PK | 74.0 | -23.3 | 1.12 V | 185 | 37.6 | 13.1 |
| 4 | 11160.00 | 36.9 AV | 54.0 | -17.1 | 1.12 V | 185 | 23.8 | 13.1 |
| 5 | #16740.00 | 52.2 PK | 68.2 | -16.0 | 1.40 V | 164 | 35.8 | 16.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5700.00 | 104.2 PK | | | 1.29 H | 158 | 100.8 | 3.4 |
| 2 | *5700.00 | 93.4 AV | | | 1.29 H | 158 | 90.0 | 3.4 |
| 3 | #5725.00 | 56.4 PK | 68.2 | -11.8 | 1.29 H | 158 | 53.1 | 3.3 |
| 4 | 11400.00 | 48.2 PK | 74.0 | -25.8 | 1.20 H | 8 | 34.7 | 13.5 |
| 5 | 11400.00 | 33.8 AV | 54.0 | -20.2 | 1.20 H | 8 | 20.3 | 13.5 |
| 6 | #17100.00 | 51.2 PK | 68.2 | -17.0 | 1.46 H | 336 | 35.1 | 16.1 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5700.00 | 112.4 PK | | | 1.35 V | 215 | 109.0 | 3.4 |
| 2 | *5700.00 | 101.7 AV | | | 1.35 V | 215 | 98.3 | 3.4 |
| 3 | #5725.00 | 58.9 PK | 68.2 | -9.3 | 1.35 V | 215 | 55.6 | 3.3 |
| 4 | 11400.00 | 50.3 PK | 74.0 | -23.7 | 1.15 V | 192 | 36.8 | 13.5 |
| 5 | 11400.00 | 36.1 AV | 54.0 | -17.9 | 1.15 V | 192 | 22.6 | 13.5 |
| 6 | #17100.00 | 52.3 PK | 68.2 | -15.9 | 1.47 V | 148 | 36.2 | 16.1 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5606.49 | 49.9 PK | 68.2 | -18.3 | 1.26 H | 146 | 46.6 | 3.3 |
| 2 | *5745.00 | 100.5 PK | | | 1.26 H | 146 | 97.2 | 3.3 |
| 3 | *5745.00 | 90.6 AV | | | 1.26 H | 146 | 87.3 | 3.3 |
| 4 | #5962.26 | 50.2 PK | 68.2 | -18.0 | 1.26 H | 146 | 46.7 | 3.5 |
| 5 | 11490.00 | 45.6 PK | 74.0 | -28.4 | 1.20 H | 0 | 32.2 | 13.4 |
| 6 | 11490.00 | 33.4 AV | 54.0 | -20.6 | 1.20 H | 0 | 20.0 | 13.4 |
| 7 | #17235.00 | 50.9 PK | 68.2 | -17.3 | 1.41 H | 325 | 34.2 | 16.7 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5633.12 | 53.6 PK | 68.2 | -14.6 | 1.10 V | 177 | 50.4 | 3.2 |
| 2 | *5745.00 | 109.8 PK | | | 1.10 V | 177 | 106.5 | 3.3 |
| 3 | *5745.00 | 100.1 AV | | | 1.10 V | 177 | 96.8 | 3.3 |
| 4 | #5951.56 | 56.9 PK | 68.2 | -11.3 | 1.10 V | 177 | 53.4 | 3.5 |
| 5 | 11490.00 | 50.4 PK | 74.0 | -23.6 | 1.16 V | 186 | 37.0 | 13.4 |
| 6 | 11490.00 | 36.5 AV | 54.0 | -17.5 | 1.16 V | 186 | 23.1 | 13.4 |
| 7 | #17235.00 | 52.3 PK | 68.2 | -15.9 | 1.18 V | 143 | 35.6 | 16.7 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5629.97 | 50.7 PK | 68.2 | -17.5 | 1.21 H | 145 | 47.4 | 3.3 |
| 2 | *5785.00 | 104.8 PK | | | 1.21 H | 145 | 101.5 | 3.3 |
| 3 | *5785.00 | 95.0 AV | | | 1.21 H | 145 | 91.7 | 3.3 |
| 4 | #5933.38 | 50.7 PK | 68.2 | -17.5 | 1.21 H | 145 | 47.1 | 3.6 |
| 5 | 11570.00 | 50.7 PK | 74.0 | -23.3 | 1.20 H | 5 | 37.3 | 13.4 |
| 6 | 11570.00 | 38.9 AV | 54.0 | -15.1 | 1.20 H | 5 | 25.5 | 13.4 |
| 7 | #17355.00 | 54.6 PK | 68.2 | -13.6 | 1.40 H | 318 | 37.3 | 17.3 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5605.25 | 53.7 PK | 68.2 | -14.5 | 1.08 V | 175 | 50.4 | 3.3 |
| 2 | *5785.00 | 114.7 PK | | | 1.08 V | 175 | 111.4 | 3.3 |
| 3 | *5785.00 | 103.9 AV | | | 1.08 V | 175 | 100.6 | 3.3 |
| 4 | #5934.74 | 54.5 PK | 68.2 | -13.7 | 1.08 V | 175 | 50.9 | 3.6 |
| 5 | 11570.00 | 53.1 PK | 74.0 | -20.9 | 1.19 V | 181 | 39.7 | 13.4 |
| 6 | 11570.00 | 41.2 AV | 54.0 | -12.8 | 1.19 V | 181 | 27.8 | 13.4 |
| 7 | #17355.00 | 56.6 PK | 68.2 | -11.6 | 1.15 V | 129 | 39.3 | 17.3 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5629.22 | 49.5 PK | 68.2 | -18.7 | 1.19 H | 144 | 46.2 | 3.3 |
| 2 | *5825.00 | 103.0 PK | | | 1.19 H | 144 | 99.5 | 3.5 |
| 3 | *5825.00 | 93.1 AV | | | 1.19 H | 144 | 89.6 | 3.5 |
| 4 | #5957.63 | 49.8 PK | 68.2 | -18.4 | 1.19 H | 144 | 46.3 | 3.5 |
| 5 | 11650.00 | 49.2 PK | 74.0 | -24.8 | 1.22 H | 1 | 35.9 | 13.3 |
| 6 | 11650.00 | 37.8 AV | 54.0 | -16.2 | 1.22 H | 1 | 24.5 | 13.3 |
| 7 | #17475.00 | 52.1 PK | 68.2 | -16.1 | 1.39 H | 328 | 33.9 | 18.2 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5613.88 | 53.0 PK | 68.2 | -15.2 | 1.06 V | 177 | 49.7 | 3.3 |
| 2 | *5825.00 | 113.0 PK | | | 1.06 V | 177 | 109.5 | 3.5 |
| 3 | *5825.00 | 102.2 AV | | | 1.06 V | 177 | 98.7 | 3.5 |
| 4 | #5947.08 | 55.0 PK | 68.2 | -13.2 | 1.06 V | 177 | 51.5 | 3.5 |
| 5 | 11650.00 | 50.6 PK | 74.0 | -23.4 | 1.18 V | 185 | 37.3 | 13.3 |
| 6 | 11650.00 | 38.9 AV | 54.0 | -15.1 | 1.18 V | 185 | 25.6 | 13.3 |
| 7 | #17475.00 | 54.7 PK | 68.2 | -13.5 | 1.14 V | 124 | 36.5 | 18.2 |

**REMARKS:**

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

## 802.11ac (VHT40)

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 63.4 PK | 74.0 | -10.6 | 1.17 H | 132 | 60.4 | 3.0 |
| 2 | 5150.00 | 51.2 AV | 54.0 | -2.8 | 1.17 H | 132 | 48.2 | 3.0 |
| 3 | *5190.00 | 96.4 PK | | | 1.17 H | 132 | 93.6 | 2.8 |
| 4 | *5190.00 | 87.8 AV | | | 1.17 H | 132 | 85.0 | 2.8 |
| 5 | 5350.00 | 48.2 PK | 74.0 | -25.8 | 1.17 H | 132 | 45.6 | 2.6 |
| 6 | 5350.00 | 37.1 AV | 54.0 | -16.9 | 1.17 H | 132 | 34.5 | 2.6 |
| 7 | #10380.00 | 47.2 PK | 68.2 | -21.0 | 1.24 H | 9 | 34.8 | 12.4 |
| 8 | 15570.00 | 49.2 PK | 74.0 | -24.8 | 1.36 H | 337 | 36.4 | 12.8 |
| 9 | 15570.00 | 37.1 AV | 54.0 | -16.9 | 1.36 H | 337 | 24.3 | 12.8 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 65.3 PK | 74.0 | -8.7 | 1.07 V | 220 | 62.3 | 3.0 |
| 2 | 5150.00 | 53.6 AV | 54.0 | -0.4 | 1.07 V | 220 | 50.6 | 3.0 |
| 3 | *5190.00 | 104.6 PK | | | 1.07 V | 220 | 101.8 | 2.8 |
| 4 | *5190.00 | 96.1 AV | | | 1.07 V | 220 | 93.3 | 2.8 |
| 5 | 5350.00 | 50.4 PK | 74.0 | -23.6 | 1.07 V | 220 | 47.8 | 2.6 |
| 6 | 5350.00 | 38.7 AV | 54.0 | -15.3 | 1.07 V | 220 | 36.1 | 2.6 |
| 7 | #10380.00 | 48.6 PK | 68.2 | -19.6 | 1.14 V | 172 | 36.2 | 12.4 |
| 8 | 15570.00 | 51.1 PK | 74.0 | -22.9 | 1.37 V | 154 | 38.3 | 12.8 |
| 9 | 15570.00 | 38.5 AV | 54.0 | -15.5 | 1.37 V | 154 | 25.7 | 12.8 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 64.2 PK | 74.0 | -9.8 | 1.22 H | 121 | 61.2 | 3.0 |
| 2 | 5150.00 | 51.1 AV | 54.0 | -2.9 | 1.22 H | 121 | 48.1 | 3.0 |
| 3 | *5230.00 | 103.9 PK | | | 1.22 H | 121 | 101.4 | 2.5 |
| 4 | *5230.00 | 94.7 AV | | | 1.22 H | 121 | 92.2 | 2.5 |
| 5 | 5350.00 | 57.3 PK | 74.0 | -16.7 | 1.22 H | 121 | 54.7 | 2.6 |
| 6 | 5350.00 | 45.1 AV | 54.0 | -8.9 | 1.22 H | 121 | 42.5 | 2.6 |
| 7 | #10460.00 | 46.7 PK | 68.2 | -21.5 | 1.28 H | 24 | 33.8 | 12.9 |
| 8 | 15690.00 | 49.8 PK | 74.0 | -24.2 | 1.31 H | 345 | 37.4 | 12.4 |
| 9 | 15690.00 | 37.2 AV | 54.0 | -16.8 | 1.31 H | 345 | 24.8 | 12.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 66.0 PK | 74.0 | -8.0 | 1.11 V | 219 | 63.0 | 3.0 |
| 2 | 5150.00 | 53.3 AV | 54.0 | -0.7 | 1.11 V | 219 | 50.3 | 3.0 |
| 3 | *5230.00 | 112.1 PK | | | 1.11 V | 219 | 109.6 | 2.5 |
| 4 | *5230.00 | 103.0 AV | | | 1.11 V | 219 | 100.5 | 2.5 |
| 5 | 5350.00 | 60.5 PK | 74.0 | -13.5 | 1.11 V | 219 | 57.9 | 2.6 |
| 6 | 5350.00 | 47.2 AV | 54.0 | -6.8 | 1.11 V | 219 | 44.6 | 2.6 |
| 7 | #10460.00 | 48.7 PK | 68.2 | -19.5 | 1.20 V | 162 | 35.8 | 12.9 |
| 8 | 15690.00 | 51.2 PK | 74.0 | -22.8 | 1.31 V | 149 | 38.8 | 12.4 |
| 9 | 15690.00 | 38.5 AV | 54.0 | -15.5 | 1.31 V | 149 | 26.1 | 12.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 54.1 PK | 74.0 | -19.9 | 1.23 H | 106 | 51.1 | 3.0 |
| 2 | 5150.00 | 42.3 AV | 54.0 | -11.7 | 1.23 H | 106 | 39.3 | 3.0 |
| 3 | *5270.00 | 104.4 PK | | | 1.23 H | 106 | 102.0 | 2.4 |
| 4 | *5270.00 | 95.1 AV | | | 1.23 H | 106 | 92.7 | 2.4 |
| 5 | 5350.00 | 64.4 PK | 74.0 | -9.6 | 1.23 H | 106 | 61.8 | 2.6 |
| 6 | 5350.00 | 51.5 AV | 54.0 | -2.5 | 1.23 H | 106 | 48.9 | 2.6 |
| 7 | #10540.00 | 46.5 PK | 68.2 | -21.7 | 1.32 H | 30 | 33.7 | 12.8 |
| 8 | 15810.00 | 49.8 PK | 74.0 | -24.2 | 1.36 H | 336 | 37.4 | 12.4 |
| 9 | 15810.00 | 37.2 AV | 54.0 | -16.8 | 1.36 H | 336 | 24.8 | 12.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 56.4 PK | 74.0 | -17.6 | 1.22 V | 214 | 53.4 | 3.0 |
| 2 | 5150.00 | 44.1 AV | 54.0 | -9.9 | 1.22 V | 214 | 41.1 | 3.0 |
| 3 | *5270.00 | 112.6 PK | | | 1.22 V | 214 | 110.2 | 2.4 |
| 4 | *5270.00 | 103.4 AV | | | 1.22 V | 214 | 101.0 | 2.4 |
| 5 | 5350.00 | 66.5 PK | 74.0 | -7.5 | 1.22 V | 214 | 63.9 | 2.6 |
| 6 | 5350.00 | 53.8 AV | 54.0 | -0.2 | 1.22 V | 214 | 51.2 | 2.6 |
| 7 | #10540.00 | 48.6 PK | 68.2 | -19.6 | 1.18 V | 170 | 35.8 | 12.8 |
| 8 | 15810.00 | 51.2 PK | 74.0 | -22.8 | 1.33 V | 142 | 38.8 | 12.4 |
| 9 | 15810.00 | 38.1 AV | 54.0 | -15.9 | 1.33 V | 142 | 25.7 | 12.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5310.00 | 99.0 PK | | | 1.21 H | 120 | 96.6 | 2.4 |
| 2 | *5310.00 | 89.8 AV | | | 1.21 H | 120 | 87.4 | 2.4 |
| 3 | 5350.00 | 63.8 PK | 74.0 | -10.2 | 1.21 H | 120 | 61.2 | 2.6 |
| 4 | 5350.00 | 51.4 AV | 54.0 | -2.6 | 1.21 H | 120 | 48.8 | 2.6 |
| 5 | 10620.00 | 47.4 PK | 74.0 | -26.6 | 1.27 H | 27 | 34.9 | 12.5 |
| 6 | 10620.00 | 34.6 AV | 54.0 | -19.4 | 1.27 H | 27 | 22.1 | 12.5 |
| 7 | 15930.00 | 49.1 PK | 74.0 | -24.9 | 1.35 H | 331 | 36.7 | 12.4 |
| 8 | 15930.00 | 37.2 AV | 54.0 | -16.8 | 1.35 H | 331 | 24.8 | 12.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5310.00 | 107.2 PK | | | 1.24 V | 214 | 104.8 | 2.4 |
| 2 | *5310.00 | 98.1 AV | | | 1.24 V | 214 | 95.7 | 2.4 |
| 3 | 5350.00 | 66.2 PK | 74.0 | -7.8 | 1.24 V | 214 | 63.6 | 2.6 |
| **4** | **5350.00** | **53.9 AV** | **54.0** | **-0.1** | **1.24 V** | **214** | **51.3** | **2.6** |
| 5 | 10620.00 | 49.2 PK | 74.0 | -24.8 | 1.13 V | 183 | 36.7 | 12.5 |
| 6 | 10620.00 | 36.4 AV | 54.0 | -17.6 | 1.13 V | 183 | 23.9 | 12.5 |
| 7 | 15930.00 | 51.2 PK | 74.0 | -22.8 | 1.41 V | 141 | 38.8 | 12.4 |
| 8 | 15930.00 | 38.2 AV | 54.0 | -15.8 | 1.41 V | 141 | 25.8 | 12.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 61.2 PK | 74.0 | -12.8 | 1.24 H | 106 | 58.3 | 2.9 |
| 2 | 5460.00 | 48.9 AV | 54.0 | -5.1 | 1.24 H | 106 | 46.0 | 2.9 |
| 3 | #5470.00 | 66.2 PK | 68.2 | -2.0 | 1.24 H | 106 | 63.3 | 2.9 |
| 4 | *5510.00 | 98.2 PK | | | 1.24 H | 106 | 95.3 | 2.9 |
| 5 | *5510.00 | 88.4 AV | | | 1.24 H | 106 | 85.5 | 2.9 |
| 6 | 11020.00 | 47.1 PK | 74.0 | -26.9 | 1.24 H | 41 | 33.9 | 13.2 |
| 7 | 11020.00 | 34.5 AV | 54.0 | -19.5 | 1.24 H | 41 | 21.3 | 13.2 |
| 8 | #16530.00 | 48.6 PK | 68.2 | -19.6 | 1.31 H | 330 | 33.7 | 14.9 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 63.1 PK | 74.0 | -10.9 | 1.22 V | 210 | 60.2 | 2.9 |
| 2 | 5460.00 | 51.0 AV | 54.0 | -3.0 | 1.22 V | 210 | 48.1 | 2.9 |
| **3** | **#5470.00** | **68.1 PK** | **68.2** | **-0.1** | **1.22 V** | **210** | **65.2** | **2.9** |
| 4 | *5510.00 | 106.4 PK | | | 1.22 V | 210 | 103.5 | 2.9 |
| 5 | *5510.00 | 96.7 AV | | | 1.22 V | 210 | 93.8 | 2.9 |
| 6 | 11020.00 | 49.5 PK | 74.0 | -24.5 | 1.10 V | 168 | 36.3 | 13.2 |
| 7 | 11020.00 | 36.8 AV | 54.0 | -17.2 | 1.10 V | 168 | 23.6 | 13.2 |
| 8 | #16530.00 | 51.3 PK | 68.2 | -16.9 | 1.33 V | 146 | 36.4 | 14.9 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 59.8 PK | 74.0 | -14.2 | 1.20 H | 120 | 56.9 | 2.9 |
| 2 | 5460.00 | 48.3 AV | 54.0 | -5.7 | 1.20 H | 120 | 45.4 | 2.9 |
| 3 | #5470.00 | 64.5 PK | 68.2 | -3.7 | 1.20 H | 120 | 61.6 | 2.9 |
| 4 | *5550.00 | 102.4 PK | | | 1.20 H | 120 | 99.4 | 3.0 |
| 5 | *5550.00 | 93.4 AV | | | 1.20 H | 120 | 90.4 | 3.0 |
| 6 | 11100.00 | 47.1 PK | 74.0 | -26.9 | 1.20 H | 36 | 34.1 | 13.0 |
| 7 | 11100.00 | 34.2 AV | 54.0 | -19.8 | 1.20 H | 36 | 21.2 | 13.0 |
| 8 | #16650.00 | 48.8 PK | 68.2 | -19.4 | 1.34 H | 345 | 33.2 | 15.6 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 62.2 PK | 74.0 | -11.8 | 1.28 V | 213 | 59.3 | 2.9 |
| 2 | 5460.00 | 50.2 AV | 54.0 | -3.8 | 1.28 V | 213 | 47.3 | 2.9 |
| 3 | #5470.00 | 66.7 PK | 68.2 | -1.5 | 1.28 V | 213 | 63.8 | 2.9 |
| 4 | *5550.00 | 110.6 PK | | | 1.28 V | 213 | 107.6 | 3.0 |
| 5 | *5550.00 | 101.7 AV | | | 1.28 V | 213 | 98.7 | 3.0 |
| 6 | 11100.00 | 49.3 PK | 74.0 | -24.7 | 1.09 V | 180 | 36.3 | 13.0 |
| 7 | 11100.00 | 36.7 AV | 54.0 | -17.3 | 1.09 V | 180 | 23.7 | 13.0 |
| 8 | #16650.00 | 51.6 PK | 68.2 | -16.6 | 1.32 V | 143 | 36.0 | 15.6 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5670.00 | 100.2 PK | | | 1.26 H | 113 | 96.9 | 3.3 |
| 2 | *5670.00 | 90.6 AV | | | 1.26 H | 113 | 87.3 | 3.3 |
| 3 | #5725.00 | 58.4 PK | 68.2 | -9.8 | 1.26 H | 113 | 55.1 | 3.3 |
| 4 | 11340.00 | 47.3 PK | 74.0 | -26.7 | 1.18 H | 38 | 33.8 | 13.5 |
| 5 | 11340.00 | 34.1 AV | 54.0 | -19.9 | 1.18 H | 38 | 20.6 | 13.5 |
| 6 | #17010.00 | 49.8 PK | 68.2 | -18.4 | 1.36 H | 335 | 33.3 | 16.5 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5670.00 | 108.4 PK | | | 1.35 V | 212 | 105.1 | 3.3 |
| 2 | *5670.00 | 98.9 AV | | | 1.35 V | 212 | 95.6 | 3.3 |
| 3 | #5725.00 | 60.4 PK | 68.2 | -7.8 | 1.35 V | 212 | 57.1 | 3.3 |
| 4 | 11340.00 | 49.2 PK | 74.0 | -24.8 | 1.17 V | 187 | 35.7 | 13.5 |
| 5 | 11340.00 | 36.4 AV | 54.0 | -17.6 | 1.17 V | 187 | 22.9 | 13.5 |
| 6 | #17010.00 | 52.1 PK | 68.2 | -16.1 | 1.34 V | 166 | 35.6 | 16.5 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5636.70 | 53.1 PK | 68.2 | -15.1 | 1.18 H | 141 | 49.9 | 3.2 |
| 2 | *5755.00 | 98.0 PK | | | 1.18 H | 141 | 94.7 | 3.3 |
| 3 | *5755.00 | 89.0 AV | | | 1.18 H | 141 | 85.7 | 3.3 |
| 4 | #5930.30 | 50.5 PK | 68.2 | -17.7 | 1.18 H | 141 | 46.9 | 3.6 |
| 5 | 11510.00 | 47.6 PK | 74.0 | -26.4 | 1.20 H | 34 | 34.2 | 13.4 |
| 6 | 11510.00 | 34.5 AV | 54.0 | -19.5 | 1.20 H | 34 | 21.1 | 13.4 |
| 7 | #17265.00 | 48.9 PK | 68.2 | -19.3 | 1.33 H | 328 | 32.1 | 16.8 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5647.68 | 60.0 PK | 68.2 | -8.2 | 1.13 V | 176 | 56.8 | 3.2 |
| 2 | *5755.00 | 106.7 PK | | | 1.13 V | 176 | 103.4 | 3.3 |
| 3 | *5755.00 | 97.6 AV | | | 1.13 V | 176 | 94.3 | 3.3 |
| 4 | #5967.87 | 55.1 PK | 68.2 | -13.1 | 1.13 V | 176 | 51.5 | 3.6 |
| 5 | 11510.00 | 49.1 PK | 74.0 | -24.9 | 1.20 V | 158 | 35.7 | 13.4 |
| 6 | 11510.00 | 36.5 AV | 54.0 | -17.5 | 1.20 V | 158 | 23.1 | 13.4 |
| 7 | #17265.00 | 51.3 PK | 68.2 | -16.9 | 1.36 V | 150 | 34.5 | 16.8 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5616.90 | 50.2 PK | 68.2 | -18.0 | 1.16 H | 138 | 46.9 | 3.3 |
| 2 | *5795.00 | 100.4 PK | | | 1.16 H | 138 | 97.1 | 3.3 |
| 3 | *5795.00 | 91.3 AV | | | 1.16 H | 138 | 88.0 | 3.3 |
| 4 | #5957.06 | 49.6 PK | 68.2 | -18.6 | 1.16 H | 138 | 46.1 | 3.5 |
| 5 | 11590.00 | 47.1 PK | 74.0 | -26.9 | 1.26 H | 20 | 33.7 | 13.4 |
| 6 | 11590.00 | 33.8 AV | 54.0 | -20.2 | 1.26 H | 20 | 20.4 | 13.4 |
| 7 | #17385.00 | 48.9 PK | 68.2 | -19.3 | 1.30 H | 320 | 31.4 | 17.5 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5645.55 | 53.0 PK | 68.2 | -15.2 | 1.10 V | 178 | 49.8 | 3.2 |
| 2 | *5795.00 | 108.9 PK | | | 1.10 V | 178 | 105.6 | 3.3 |
| 3 | *5795.00 | 99.7 AV | | | 1.10 V | 178 | 96.4 | 3.3 |
| 4 | #5947.68 | 54.2 PK | 68.2 | -14.0 | 1.10 V | 178 | 50.7 | 3.5 |
| 5 | 11590.00 | 48.6 PK | 74.0 | -25.4 | 1.14 V | 168 | 35.2 | 13.4 |
| 6 | 11590.00 | 36.2 AV | 54.0 | -17.8 | 1.14 V | 168 | 22.8 | 13.4 |
| 7 | #17385.00 | 51.1 PK | 68.2 | -17.1 | 1.39 V | 168 | 33.6 | 17.5 |

**REMARKS:**

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

## 802.11ac (VHT80)

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 63.2 PK | 74.0 | -10.8 | 1.77 H | 131 | 60.2 | 3.0 |
| 2 | 5150.00 | 51.1 AV | 54.0 | -2.9 | 1.77 H | 131 | 48.1 | 3.0 |
| 3 | *5210.00 | 92.8 PK | | | 1.17 H | 131 | 90.1 | 2.7 |
| 4 | *5210.00 | 84.0 AV | | | 1.17 H | 131 | 81.3 | 2.7 |
| 5 | 5350.00 | 49.2 PK | 74.0 | -24.8 | 1.77 H | 131 | 46.6 | 2.6 |
| 6 | 5350.00 | 38.4 AV | 54.0 | -15.6 | 1.77 H | 131 | 35.8 | 2.6 |
| 7 | #10420.00 | 44.1 PK | 68.2 | -24.1 | 1.27 H | 5 | 31.5 | 12.6 |
| 8 | 15630.00 | 48.3 PK | 74.0 | -25.7 | 1.32 H | 320 | 35.6 | 12.7 |
| 9 | 15630.00 | 35.9 AV | 54.0 | -18.1 | 1.32 H | 320 | 23.2 | 12.7 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 65.3 PK | 74.0 | -8.7 | 1.15 V | 177 | 62.3 | 3.0 |
| **2** | **5150.00** | **53.9 AV** | **54.0** | **-0.1** | **1.15 V** | **177** | **50.9** | **3.0** |
| 3 | *5210.00 | 101.0 PK | | | 1.15 V | 177 | 98.3 | 2.7 |
| 4 | *5210.00 | 92.3 AV | | | 1.15 V | 177 | 89.6 | 2.7 |
| 5 | 5350.00 | 51.6 PK | 74.0 | -22.4 | 1.15 V | 177 | 49.0 | 2.6 |
| 6 | 5350.00 | 40.9 AV | 54.0 | -13.1 | 1.15 V | 177 | 38.3 | 2.6 |
| 7 | #10420.00 | 47.8 PK | 68.2 | -20.4 | 1.14 V | 176 | 35.2 | 12.6 |
| 8 | 15630.00 | 50.3 PK | 74.0 | -23.7 | 1.42 V | 151 | 37.6 | 12.7 |
| 9 | 15630.00 | 37.9 AV | 54.0 | -16.1 | 1.42 V | 151 | 25.2 | 12.7 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 54.2 PK | 74.0 | -19.8 | 1.18 H | 127 | 51.2 | 3.0 |
| 2 | 5150.00 | 41.8 AV | 54.0 | -12.2 | 1.18 H | 127 | 38.8 | 3.0 |
| 3 | *5290.00 | 95.8 PK | | | 1.18 H | 127 | 93.4 | 2.4 |
| 4 | *5290.00 | 87.0 AV | | | 1.18 H | 127 | 84.6 | 2.4 |
| 5 | 5350.00 | 63.2 PK | 74.0 | -10.8 | 1.18 H | 127 | 60.6 | 2.6 |
| 6 | 5350.00 | 51.2 AV | 54.0 | -2.8 | 1.18 H | 127 | 48.6 | 2.6 |
| 7 | #10580.00 | 45.4 PK | 68.2 | -22.8 | 1.22 H | 1 | 32.8 | 12.6 |
| 8 | 15870.00 | 48.9 PK | 74.0 | -25.1 | 1.37 H | 316 | 36.5 | 12.4 |
| 9 | 15870.00 | 35.6 AV | 54.0 | -18.4 | 1.37 H | 316 | 23.2 | 12.4 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 56.9 PK | 74.0 | -17.1 | 1.09 V | 175 | 53.9 | 3.0 |
| 2 | 5150.00 | 44.8 AV | 54.0 | -9.2 | 1.09 V | 175 | 41.8 | 3.0 |
| 3 | *5290.00 | 104.0 PK | | | 1.09 V | 175 | 101.6 | 2.4 |
| 4 | *5290.00 | 95.3 AV | | | 1.09 V | 175 | 92.9 | 2.4 |
| 5 | 5350.00 | 65.2 PK | 74.0 | -8.8 | 1.09 V | 175 | 62.6 | 2.6 |
| **6** | **5350.00** | **53.9 AV** | **54.0** | **-0.1** | **1.09 V** | **175** | **51.3** | **2.6** |
| 7 | #10580.00 | 47.3 PK | 68.2 | -20.9 | 1.18 V | 160 | 34.7 | 12.6 |
| 8 | 15870.00 | 50.1 PK | 74.0 | -23.9 | 1.41 V | 139 | 37.7 | 12.4 |
| 9 | 15870.00 | 37.4 AV | 54.0 | -16.6 | 1.41 V | 139 | 25.0 | 12.4 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 63.2 PK | 74.0 | -10.8 | 1.14 H | 121 | 60.3 | 2.9 |
| 2 | 5460.00 | 51.6 AV | 54.0 | -2.4 | 1.14 H | 121 | 48.7 | 2.9 |
| 3 | #5470.00 | 66.3 PK | 68.2 | -1.9 | 1.14 H | 121 | 63.4 | 2.9 |
| 4 | *5530.00 | 94.0 PK | | | 1.14 H | 121 | 91.0 | 3.0 |
| 5 | *5530.00 | 85.3 AV | | | 1.14 H | 121 | 82.3 | 3.0 |
| 6 | #5725.00 | 47.8 PK | 68.2 | -20.4 | 1.14 H | 121 | 44.5 | 3.3 |
| 7 | 11060.00 | 44.9 PK | 74.0 | -29.1 | 1.16 H | 6 | 31.7 | 13.2 |
| 8 | 11060.00 | 34.2 AV | 54.0 | -19.8 | 1.16 H | 6 | 21.0 | 13.2 |
| 9 | #16590.00 | 47.2 PK | 68.2 | -21.0 | 1.33 H | 309 | 32.1 | 15.1 |
| **ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M** | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 65.5 PK | 74.0 | -8.5 | 1.04 V | 178 | 62.6 | 2.9 |
| **2** | **5460.00** | **53.9 AV** | **54.0** | **-0.1** | **1.04 V** | **178** | **51.0** | **2.9** |
| 3 | #5470.00 | 67.7 PK | 68.2 | -0.5 | 1.04 V | 178 | 64.8 | 2.9 |
| 4 | *5530.00 | 102.2 PK | | | 1.04 V | 178 | 99.2 | 3.0 |
| 5 | *5530.00 | 93.6 AV | | | 1.04 V | 178 | 90.6 | 3.0 |
| 6 | #5725.00 | 50.1 PK | 68.2 | -18.1 | 1.04 V | 178 | 46.8 | 3.3 |
| 7 | 11060.00 | 47.2 PK | 74.0 | -26.8 | 1.19 V | 184 | 34.0 | 13.2 |
| 8 | 11060.00 | 36.5 AV | 54.0 | -17.5 | 1.19 V | 184 | 23.3 | 13.2 |
| 9 | #16590.00 | 49.9 PK | 68.2 | -18.3 | 1.35 V | 162 | 34.8 | 15.1 |

**REMARKS:**

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

| CHANNEL | TX Channel 122 | DETECTOR FUNCTION | Peak (PK) |
|---|---|---|---|
| FREQUENCY RANGE | 1GHz ~ 40GHz | | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 63.8 PK | 74.0 | -10.2 | 1.16 H | 128 | 60.9 | 2.9 |
| 2 | 5460.00 | 50.1 AV | 54.0 | -3.9 | 1.16 H | 128 | 47.2 | 2.9 |
| 3 | #5470.00 | 65.4 PK | 68.2 | -2.8 | 1.16 H | 128 | 62.5 | 2.9 |
| 4 | *5610.00 | 99.8 PK | | | 1.16 H | 128 | 96.5 | 3.3 |
| 5 | *5610.00 | 91.0 AV | | | 1.16 H | 128 | 87.7 | 3.3 |
| 6 | #5725.00 | 63.6 PK | 68.2 | -4.6 | 1.16 H | 128 | 60.3 | 3.3 |
| 7 | 11220.00 | 44.2 PK | 74.0 | -29.8 | 1.20 H | 10 | 31.0 | 13.2 |
| 8 | 11220.00 | 34.3 AV | 54.0 | -19.7 | 1.20 H | 10 | 21.1 | 13.2 |
| 9 | #16830.00 | 47.6 PK | 68.2 | -20.6 | 1.29 H | 311 | 31.0 | 16.6 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5460.00 | 65.3 PK | 74.0 | -8.7 | 1.09 V | 178 | 62.4 | 2.9 |
| 2 | 5460.00 | 52.9 AV | 54.0 | -1.1 | 1.09 V | 178 | 50.0 | 2.9 |
| 3 | #5470.00 | 67.3 PK | 68.2 | -0.9 | 1.09 V | 178 | 64.4 | 2.9 |
| 4 | *5610.00 | 108.0 PK | | | 1.09 V | 178 | 104.7 | 3.3 |
| 5 | *5610.00 | 99.3 AV | | | 1.09 V | 178 | 96.0 | 3.3 |
| 6 | #5725.00 | 65.7 PK | 68.2 | -2.5 | 1.09 V | 178 | 62.4 | 3.3 |
| 7 | 11220.00 | 46.8 PK | 74.0 | -27.2 | 1.10 V | 171 | 33.6 | 13.2 |
| 8 | 11220.00 | 36.2 AV | 54.0 | -17.8 | 1.10 V | 171 | 23.0 | 13.2 |
| 9 | #16830.00 | 50.2 PK | 68.2 | -18.0 | 1.41 V | 138 | 33.6 | 16.6 |

**REMARKS:**

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

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5646.67 | 59.8 PK | 68.2 | -8.4 | 1.26 H | 139 | 56.6 | 3.2 |
| 2 | *5775.00 | 91.9 PK | | | 1.26 H | 139 | 88.5 | 3.4 |
| 3 | *5775.00 | 83.6 AV | | | 1.26 H | 139 | 80.2 | 3.4 |
| 4 | #5931.37 | 54.5 PK | 68.2 | -13.7 | 1.26 H | 139 | 50.9 | 3.6 |
| 5 | 11550.00 | 43.8 PK | 74.0 | -30.2 | 1.17 H | 19 | 30.5 | 13.3 |
| 6 | 11550.00 | 34.6 AV | 54.0 | -19.4 | 1.17 H | 19 | 21.3 | 13.3 |
| 7 | #17325.00 | 48.4 PK | 68.2 | -19.8 | 1.29 H | 327 | 31.3 | 17.1 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5633.73 | 68.0 PK | 68.2 | -0.2 | 1.11 V | 177 | 64.8 | 3.2 |
| 2 | *5775.00 | 101.3 PK | | | 1.11 V | 177 | 97.9 | 3.4 |
| 3 | *5775.00 | 92.6 AV | | | 1.11 V | 177 | 89.2 | 3.4 |
| 4 | #5932.53 | 62.9 PK | 68.2 | -5.3 | 1.11 V | 177 | 59.3 | 3.6 |
| 5 | 11550.00 | 46.8 PK | 74.0 | -27.2 | 1.13 V | 171 | 33.5 | 13.3 |
| 6 | 11550.00 | 36.1 AV | 54.0 | -17.9 | 1.13 V | 171 | 22.8 | 13.3 |
| 7 | #17325.00 | 50.1 PK | 68.2 | -18.1 | 1.32 V | 144 | 33.0 | 17.1 |

**REMARKS:**

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

**Below 1GHz Data:**

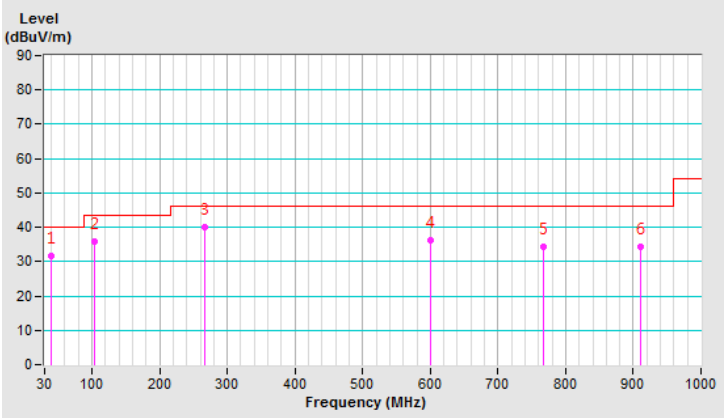
**802.11ac (VHT40)**

| | | | |
|---|---|---|---|
| **CHANNEL** | TX Channel 110 | **DETECTOR FUNCTION** | Quasi-Peak (QP) |
| **FREQUENCY RANGE** | 9kHz ~ 1GHz | | |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **NO.** | **FREQ. (MHz)** | **EMISSION LEVEL (dBuV/m)** | **LIMIT (dBuV/m)** | **MARGIN (dB)** | **ANTENNA HEIGHT (m)** | **TABLE ANGLE (Degree)** | **RAW VALUE (dBuV)** | **CORRECTION FACTOR (dB/m)** |
| 1 | 40.06 | 31.6 QP | 40.0 | -8.4 | 1.00 H | 220 | 39.8 | -8.2 |
| 2 | 103.16 | 35.7 QP | 43.5 | -7.8 | 2.00 H | 354 | 47.5 | -11.8 |
| 3 | 266.92 | 40.0 QP | 46.0 | -6.0 | 1.00 H | 130 | 48.3 | -8.3 |
| 4 | 600.02 | 36.2 QP | 46.0 | -9.8 | 1.50 H | 37 | 35.4 | 0.8 |
| 5 | 766.62 | 34.4 QP | 46.0 | -11.6 | 1.00 H | 34 | 31.0 | 3.4 |
| 6 | 911.44 | 34.3 QP | 46.0 | -11.7 | 1.50 H | 50 | 28.6 | 5.7 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.

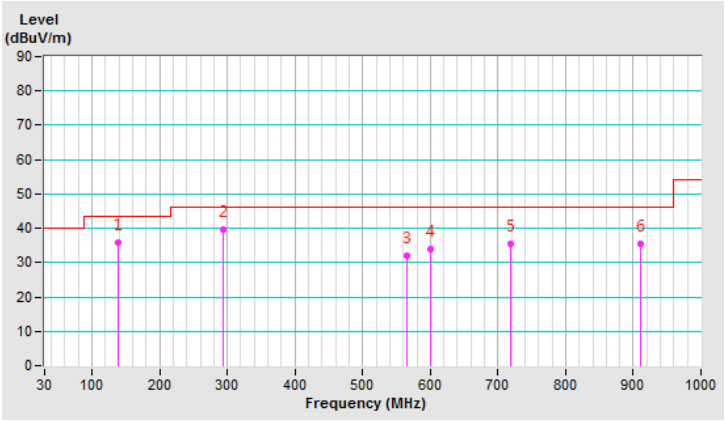


| CHANNEL | TX Channel 110 | DETECTOR FUNCTION | Quasi-Peak (QP) |
|---|---|---|---|
| FREQUENCY RANGE | 9kHz ~ 1GHz | | |

| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 137.79 | 35.8 QP | 43.5 | -7.7 | 1.50 V | 349 | 44.2 | -8.4 |
| 2 | 293.79 | 39.7 QP | 46.0 | -6.3 | 1.00 V | 57 | 47.0 | -7.3 |
| 3 | 565.25 | 32.0 QP | 46.0 | -14.0 | 1.00 V | 61 | 32.6 | -0.6 |
| 4 | 600.02 | 33.8 QP | 46.0 | -12.2 | 1.50 V | 333 | 33.0 | 0.8 |
| 5 | 718.92 | 35.5 QP | 46.0 | -10.5 | 1.00 V | 315 | 33.5 | 2.0 |
| 6 | 910.93 | 35.4 QP | 46.0 | -10.6 | 1.50 V | 71 | 29.7 | 5.7 |

**REMARKS:**

1. Emission Level(dBuV/m) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB)
3. Margin value = Emission Level – Limit value
4. The emission levels were very low against the limit of frequency range 9kHz~30MHz: the amplitude of spurious emissions attenuated more than 20 dB below the permissible value to be report.



## 4.2 Transmit Power Measurement

### 4.2.1 Limits of Transmit Power Measurement

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

*B is the 26 dB emission bandwidth in megahertz

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

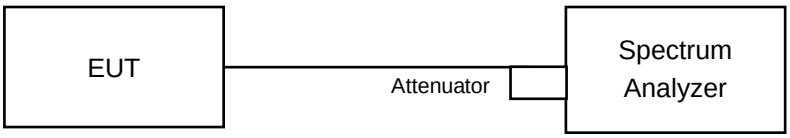
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;
Array Gain = 0 dB (i.e., no array gain) for channel widths ≥ 40 MHz for any $N_{ANT}$;
Array Gain = 5 log($N_{ANT}/N_{SS}$) dB or 3 dB, whichever is less for 20-MHz channel widths with $N_{ANT} \geq 5$.

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

4.2.2 Test Setup

**FOR POWER OUTPUT MEASUREMENT**


**FOR 26dB OCCUPIED BANDWIDTH**




4.2.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.2.4 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%.

4.2.5 Deviation from Test Standard

No deviation.

4.2.6 EUT Operating Condition

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

4.2.7 Test Results

**802.11a**

**POWER OUTPUT**

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (mW) | Maximum Conducted Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|
| 36 | 5180 | 52.24 | 17.18 | 24.00 | Pass |
| 40 | 5200 | 72.611 | 18.61 | 24.00 | Pass |
| 48 | 5240 | 74.131 | 18.70 | 24.00 | Pass |
| 52 | 5260 | 69.984 | 18.45 | 24.00 | Pass |
| 60 | 5300 | 70.469 | 18.48 | 24.00 | Pass |
| 64 | 5320 | 51.05 | 17.08 | 24.00 | Pass |
| 100 | 5500 | 52.602 | 17.21 | 24.00 | Pass |
| 116 | 5580 | 71.45 | 18.54 | 24.00 | Pass |
| 140 | 5700 | 54.45 | 17.36 | 24.00 | Pass |
| 149 | 5745 | 89.331 | 19.51 | 30.00 | Pass |
| 157 | 5785 | 88.512 | 19.47 | 30.00 | Pass |
| 165 | 5825 | 87.902 | 19.44 | 30.00 | Pass |

**26dB OCCUPIED BANDWIDTH**

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) |
|---|---|---|
| 36 | 5180 | 21.79 |
| 40 | 5200 | 30.15 |
| 48 | 5240 | 21.68 |
| 52 | 5260 | 21.72 |
| 60 | 5300 | 28.14 |
| 64 | 5320 | 21.55 |
| 100 | 5500 | 21.48 |
| 116 | 5580 | 21.87 |
| 140 | 5700 | 21.49 |

**Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth**

| Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C > | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 52 | 5260 | 21.72 | 24.36 > 24 |
| 60 | 5300 | 28.13 | 25.49 > 24 |
| 64 | 5320 | 21.55 | 24.33 > 24 |
| 100 | 5500 | 21.48 | 24.32 > 24 |
| 116 | 5580 | 21.87 | 24.39 > 24 |
| 140 | 5700 | 21.48 | 24.32 > 24 |

**802.11ac (VHT20)**

**POWER OUTPUT**

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | | | |
| 36 | 5180 | 15.52 | 15.14 | 68.304 | 18.34 | 24.00 | Pass |
| 40 | 5200 | 19.27 | 17.46 | 140.247 | 21.47 | 24.00 | Pass |
| 48 | 5240 | 20.25 | 18.41 | 175.268 | 22.44 | 24.00 | Pass |
| 52 | 5260 | 19.67 | 19.10 | 173.966 | 22.40 | 24.00 | Pass |
| 60 | 5300 | 18.33 | 18.13 | 133.09 | 21.24 | 24.00 | Pass |
| 64 | 5320 | 15.21 | 15.15 | 65.923 | 18.19 | 24.00 | Pass |
| 100 | 5500 | 15.78 | 16.19 | 79.435 | 19.00 | 24.00 | Pass |
| 116 | 5580 | 18.91 | 19.06 | 158.342 | 22.00 | 24.00 | Pass |
| 140 | 5700 | 15.73 | 16.23 | 79.387 | 19.00 | 24.00 | Pass |
| 149 | 5745 | 18.85 | 19.32 | 162.243 | 22.10 | 30.00 | Pass |
| 157 | 5785 | 18.87 | 19.38 | 163.786 | 22.14 | 30.00 | Pass |
| 165 | 5825 | 18.81 | 19.37 | 162.53 | 22.11 | 30.00 | Pass |

## 26dB OCCUPIED BANDWIDTH

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) | |
|---|---|---|---|
| | | Chain 0 | Chain 1 |
| 36 | 5180 | 22.02 | 22.08 |
| 40 | 5200 | 29.38 | 29.96 |
| 48 | 5240 | 27.73 | 21.88 |
| 52 | 5260 | 32.50 | 22.01 |
| 60 | 5300 | 27.87 | 25.70 |
| 64 | 5320 | 21.89 | 22.10 |
| 100 | 5500 | 21.78 | 22.06 |
| 116 | 5580 | 22.10 | 21.88 |
| 140 | 5700 | 21.81 | 21.93 |

**Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth**

| Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C > | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 52 | 5260 | 22.00 | 24.42 > 24 |
| 60 | 5300 | 25.70 | 25.09 > 24 |
| 64 | 5320 | 21.88 | 24.4 > 24 |
| 100 | 5500 | 21.77 | 24.37 > 24 |
| 116 | 5580 | 21.88 | 24.4 > 24 |
| 140 | 5700 | 21.80 | 24.38 > 24 |

## 802.11ac (VHT40)

### POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | | | |
| 38 | 5190 | 12.23 | 12.55 | 34.7 | 15.40 | 24.00 | Pass |
| 46 | 5230 | 19.38 | 17.36 | 141.146 | 21.50 | 24.00 | Pass |
| 54 | 5270 | 19.96 | 18.13 | 164.096 | 22.15 | 24.00 | Pass |
| 62 | 5310 | 14.15 | 14.31 | 52.979 | 17.24 | 24.00 | Pass |
| 102 | 5510 | 12.88 | 13.14 | 40.015 | 16.02 | 24.00 | Pass |
| 110 | 5550 | 20.20 | 18.50 | 175.508 | 22.44 | 24.00 | Pass |
| 134 | 5670 | 15.73 | 15.39 | 72.005 | 18.57 | 24.00 | Pass |
| 151 | 5755 | 19.95 | 18.02 | 162.242 | 22.10 | 30.00 | Pass |
| 159 | 5795 | 19.98 | 18.11 | 164.255 | 22.16 | 30.00 | Pass |

### 26dB OCCUPIED BANDWIDTH

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) | |
|---|---|---|---|
| | | Chain 0 | Chain 1 |
| 38 | 5190 | 41.51 | 41.87 |
| 46 | 5230 | 41.59 | 41.27 |
| 54 | 5270 | 98.12 | 93.08 |
| 62 | 5310 | 41.26 | 41.51 |
| 102 | 5510 | 41.22 | 41.69 |
| 110 | 5550 | 89.11 | 41.76 |
| 134 | 5670 | 41.54 | 41.39 |

**Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth**

| Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C > | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 54 | 5270 | 93.08 | 30.68 > 24 |
| 62 | 5310 | 41.26 | 27.15 > 24 |
| 102 | 5510 | 41.22 | 27.15 > 24 |
| 110 | 5550 | 41.76 | 27.2 > 24 |
| 134 | 5670 | 41.39 | 27.16 > 24 |

## 802.11ac (VHT80)

### POWER OUTPUT

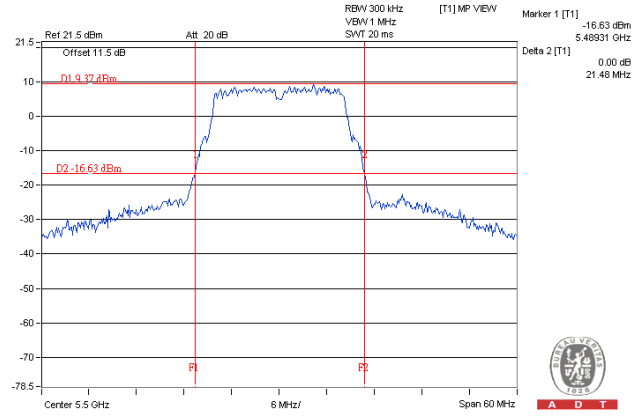
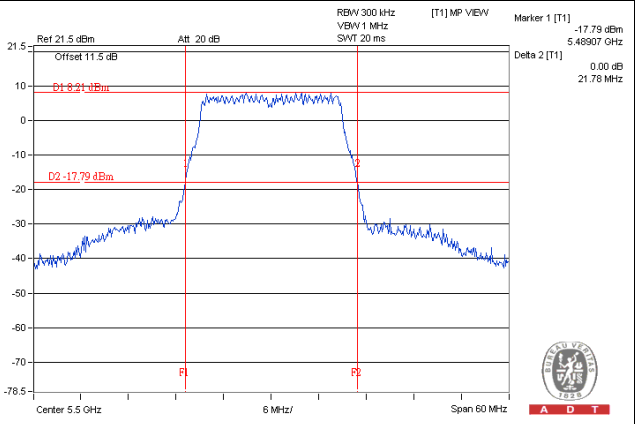
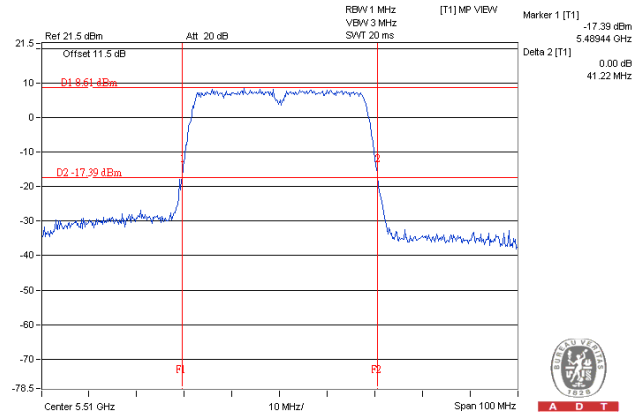
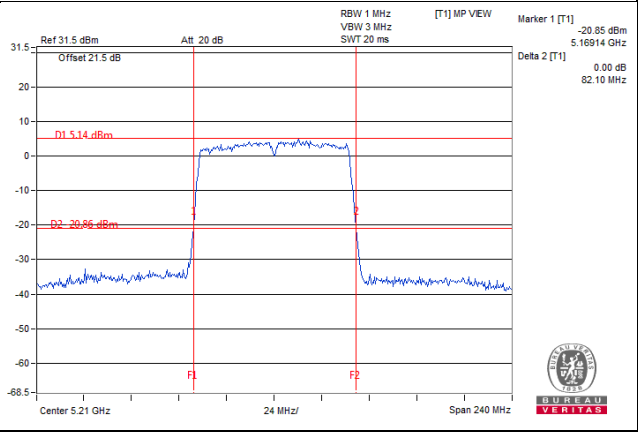
| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | | | |
| 42 | 5210 | 12.32 | 11.99 | 32.873 | 15.17 | 24.00 | Pass |
| 58 | 5290 | 14.38 | 14.41 | 55.022 | 17.41 | 24.00 | Pass |
| 106 | 5530 | 12.66 | 13.31 | 39.879 | 16.01 | 24.00 | Pass |
| 122 | 5610 | 18.15 | 18.35 | 133.704 | 21.26 | 24.00 | Pass |
| 155 | 5775 | 17.79 | 18.22 | 126.491 | 21.02 | 30.00 | Pass |

### 26dB OCCUPIED BANDWIDTH

| Channel | Frequency (MHz) | 26dBc Bandwidth (MHz) | |
|---|---|---|---|
| | | Chain 0 | Chain 1 |
| 42 | 5210 | 82.50 | 82.10 |
| 58 | 5290 | 83.44 | 174.26 |
| 106 | 5530 | 82.69 | 82.49 |
| 122 | 5610 | 99.48 | 126.28 |

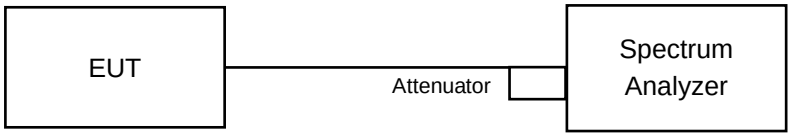
**Note: For U-NII-2A, U-NII-2C Band output power limitation is determined based on 26dBc bandwidth**

| Power Limit = 11dBm + 10logB < U-NII-2A, U-NII-2C > | | | |
|---|---|---|---|
| Channel Number | Freq.(MHz) | Min. B(MHz) | Determined Conducted Limit (dBm) |
| 58 | 5290 | 83.44 | 30.21 > 24 |
| 106 | 5530 | 82.48 | 30.16 > 24 |
| 122 | 5610 | 99.48 | 30.97 > 24 |

| Spectrum Plot of Worst Value | |
|---|---|
| **802.11a / CH100** | **802.11ac (VHT20)_Chain 0 / CH100** |
|  |  |
| **8802.11ac (VHT40)_Chain 0 / CH102** | **802.11ac (VHT80)_Chain 1 / CH42** |
|  |  |

## 4.3 Occupied Bandwidth Measurement

### 4.3.1 Test Setup




### 4.3.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.3.3 Test Procedure

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

4.3.4 Test Results

**802.11a**

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) |
|---|---|---|
| 36 | 5180 | 17.04 |
| 40 | 5200 | 17.88 |
| 48 | 5240 | 16.92 |
| 52 | 5260 | 16.92 |
| 60 | 5300 | 17.40 |
| 64 | 5320 | 16.92 |
| 100 | 5500 | 17.16 |
| 116 | 5580 | 16.92 |
| 140 | 5700 | 17.04 |
| 149 | 5745 | 17.16 |
| 157 | 5785 | 17.28 |
| 165 | 5825 | 17.28 |

**802.11ac (VHT20)**

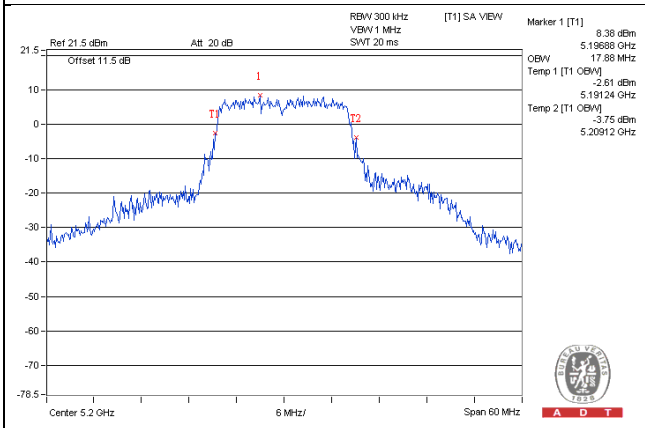
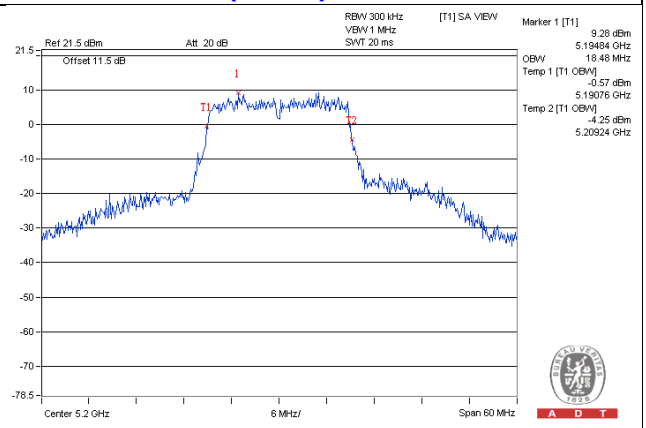
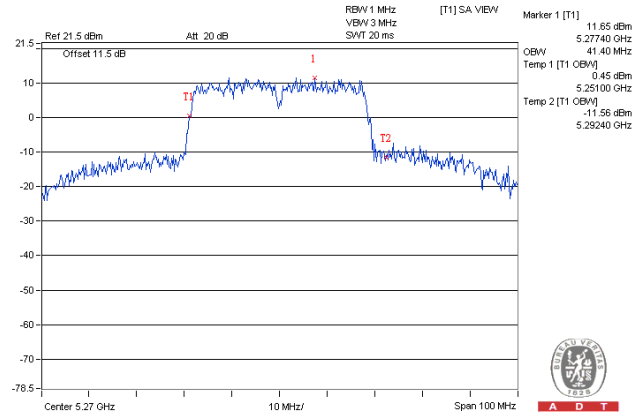
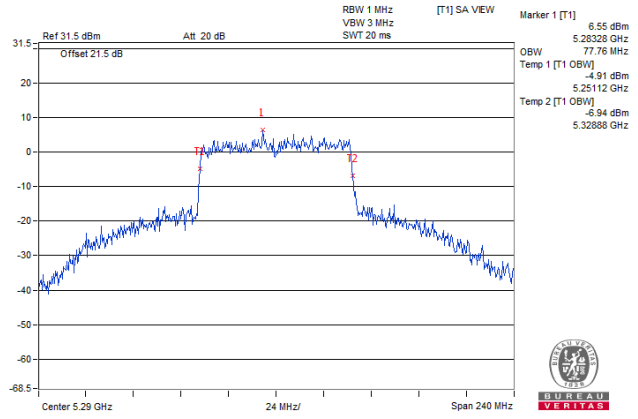
| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | |
|---|---|---|---|
| | | Chain 0 | Chain 1 |
| 36 | 5180 | 18.24 | 18.24 |
| 40 | 5200 | 18.48 | 18.36 |
| 48 | 5240 | 18.12 | 17.88 |
| 52 | 5260 | 18.36 | 18.12 |
| 60 | 5300 | 18.36 | 18.24 |
| 64 | 5320 | 18.12 | 18.00 |
| 100 | 5500 | 18.12 | 18.12 |
| 116 | 5580 | 18.12 | 18.00 |
| 140 | 5700 | 17.88 | 18.24 |
| 149 | 5745 | 18.24 | 18.24 |
| 157 | 5785 | 18.24 | 18.12 |
| 165 | 5825 | 18.24 | 18.12 |

### 802.11ac (VHT40)

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | |
|---|---|---|---|
| | | Chain 0 | Chain 1 |
| 38 | 5190 | 36.80 | 36.60 |
| 46 | 5230 | 36.72 | 36.72 |
| 54 | 5270 | 41.40 | 37.20 |
| 62 | 5310 | 36.60 | 36.80 |
| 102 | 5510 | 36.60 | 36.60 |
| 110 | 5550 | 37.20 | 36.72 |
| 134 | 5670 | 36.72 | 36.72 |
| 151 | 5755 | 39.60 | 36.72 |
| 159 | 5795 | 38.64 | 36.96 |

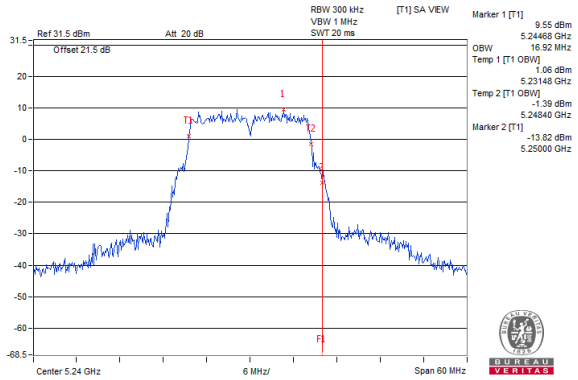
### 802.11ac (VHT80)

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | |
|---|---|---|---|
| | | Chain 0 | Chain 1 |
| 42 | 5210 | 75.36 | 76.32 |
| 58 | 5290 | 75.84 | 77.76 |
| 106 | 5530 | 76.08 | 75.84 |
| 122 | 5610 | 76.08 | 75.84 |
| 155 | 5775 | 76.32 | 76.32 |

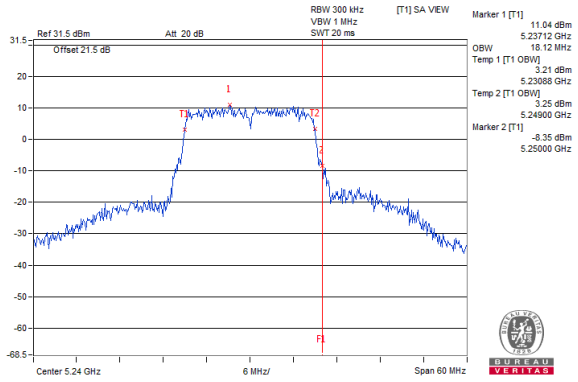
| Spectrum Plot of Max. Value | |
|---|---|
| **802.11a / CH40** | **802.11ac (VHT20)_Chain 0 / CH40** |
|  |  |
| **802.11ac (VHT40)_Chain 0 / CH54** | **802.11ac (VHT80)_Chain 1 / CH48** |
|  |  |

Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2A band)

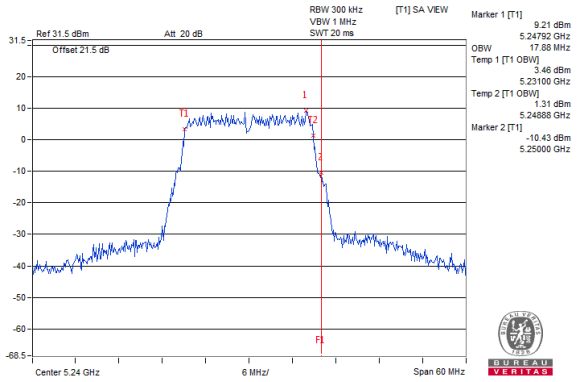
## 802.11a / CH48



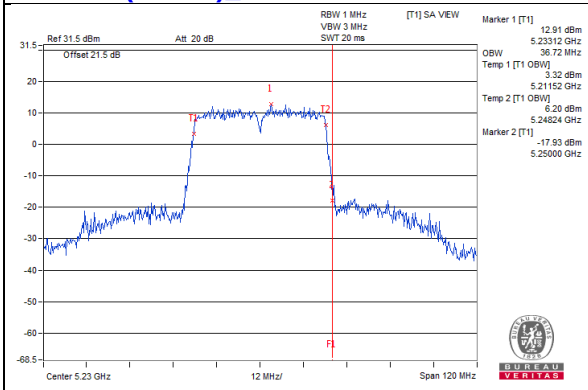

## 802.11ac (VHT20)_Chain 0 / CH48



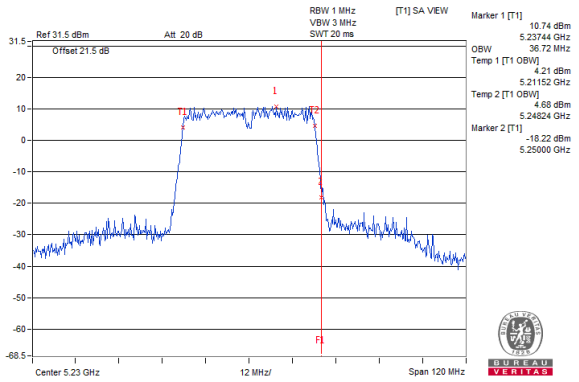

## 802.11ac (VHT20)_Chain 1 / CH48



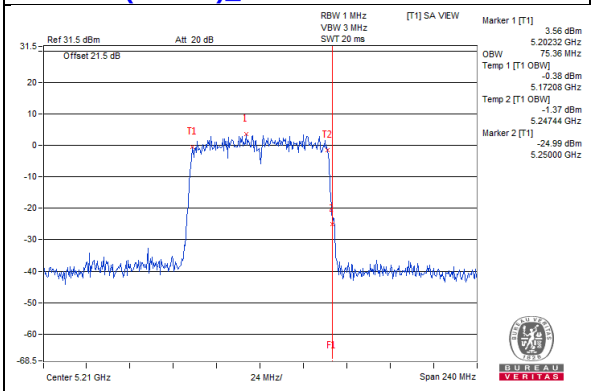

## 802.11ac (VHT40)_Chain 0 / CH46



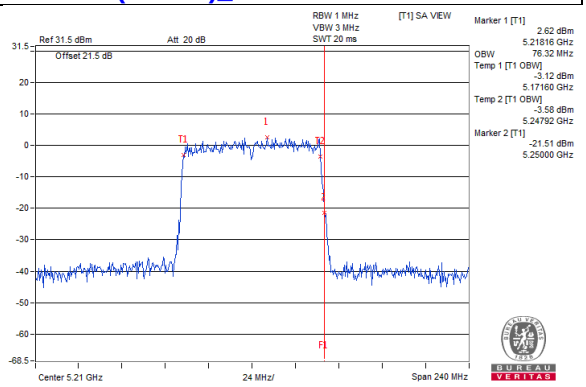

## 802.11ac (VHT40)_Chain 1 / CH46




## 802.11ac (VHT80)_Chain 0 / CH42

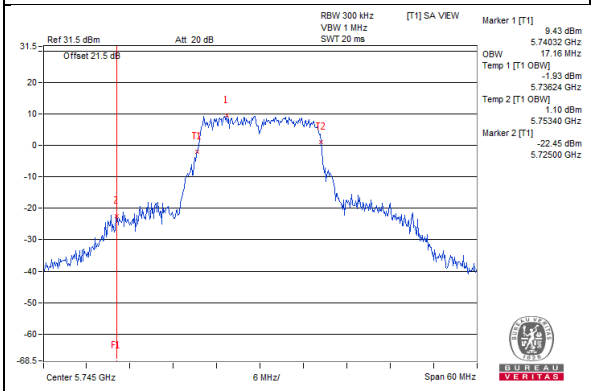



## 802.11ac (VHT80)_Chain 1 / CH42

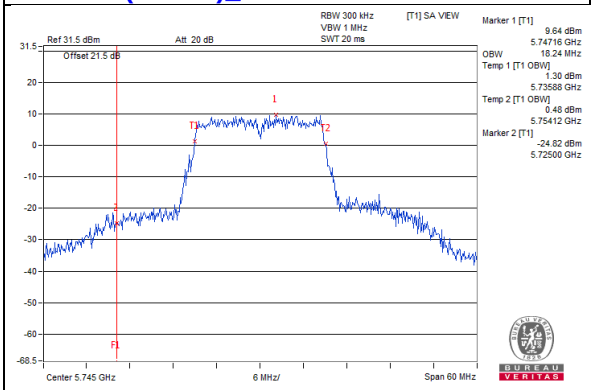


Spectrum Plot for near by DFS band
(DFS is required, if 99% OCP straddle into U-NII-2C band)

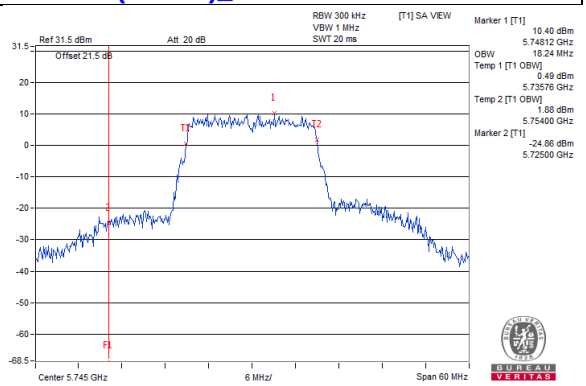
## 802.11a / CH149



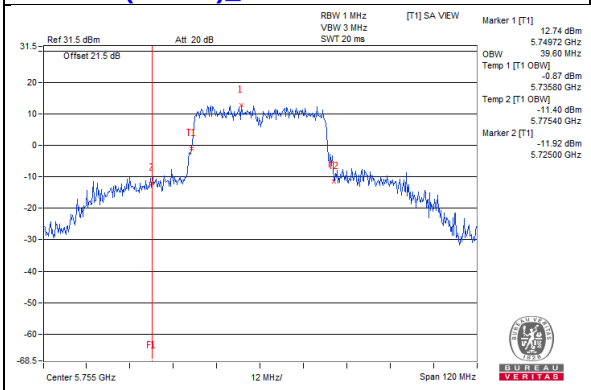

## 802.11ac (VHT20)_Chain 0 / CH149



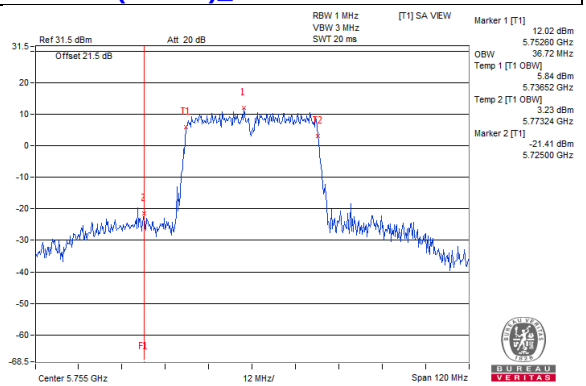

## 802.11ac (VHT20)_Chain 1 / CH149



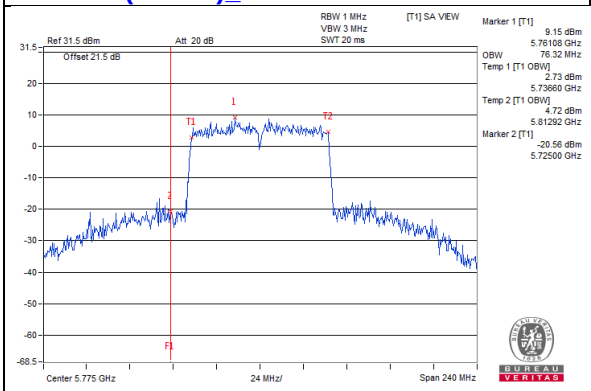

## 802.11ac (VHT40)_Chain 0 / CH151



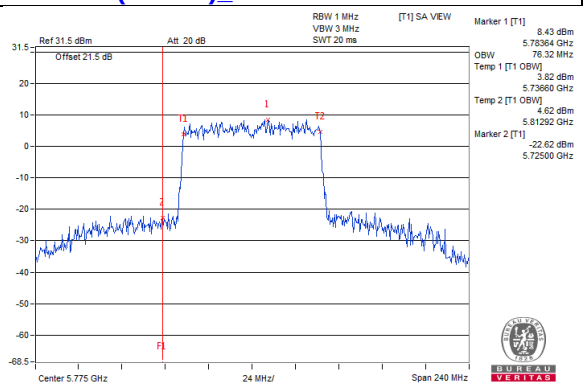

## 802.11ac (VHT40)_Chain 1 / CH151




## 802.11ac (VHT80)_Chain 0 / CH155




## 802.11ac (VHT80)_Chain 1 / CH155

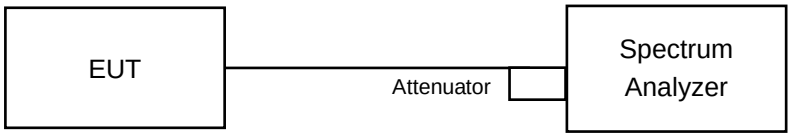


## 4.4 Peak Power Spectral Density Measurement

### 4.4.1 Limits of Peak Power Spectral Density Measurement

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

### 4.4.2 Test Setup




### 4.4.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.4 Test Procedure

**For U-NII-3:**

**For 802.11a, 802.11ac (VHT20)**

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

**For 802.11ac (VHT40), 802.11ac (VHT80)**

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

4.4.5 Deviation from Test Standard

No deviation.

4.4.6 EUT Operating Condition

Same as Item 4.3.6.

4.4.7 Test Results

**802.11a**

| Chan. | Chan. Freq. (MHz) | Power Density (dBm/300kHz) | Power Density (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|---|---|---|---|---|---|
| 149 | 5745 | -2.87 | -0.65 | 30 | Pass |
| 157 | 5785 | -3.09 | -0.87 | 30 | Pass |
| 165 | 5825 | -2.64 | -0.42 | 30 | Pass |

**802.11ac (VHT20)**

| Chan. | Freq. (MHz) | PSD (dBm/300kHz) | | Total PSD | | Limit (dBm/500kHz) | Pass /Fail |
|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | dBm/300kHz | dBm/500kHz | | |
| 149 | 5745 | -2.68 | -2.48 | 0.43 | 2.65 | 27.83 | Pass |
| 157 | 5785 | -2.77 | -2.55 | 0.35 | 2.57 | 27.83 | Pass |
| 165 | 5825 | -2.97 | -2.48 | 0.29 | 2.51 | 27.83 | Pass |

Note: 1. Method b) 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. The directional gain = 5.16dBi + 10log(2) = 8.17dBi > 6dBi , so the power density limit shall be reduced to 30-(8.17-6) = 27.83dBm.

**802.11ac (VHT40)**

| Chan. | Freq. (MHz) | PSD W/O Duty Factor (dBm/300kHz) | | Duty Factor (dB) | Total PSD With Duty Factor | | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | mW/300kHz | dBm/300kHz | | | |
| 151 | 5755 | -6.68 | -9.18 | 0.12 | 0.3451 | -4.62 | -2.40 | 27.83 | Pass |
| 159 | 5795 | -7.09 | -9.11 | 0.12 | 0.3272 | -4.85 | -2.63 | 27.83 | Pass |

Note: 1. Method b) 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. The directional gain = 5.16dBi + 10log(2) = 8.17dBi > 6dBi , so the power density limit shall be reduced to 30-(8.17-6) = 27.83dBm.
3. Refer to section 3.3 for duty cycle spectrum plot.

## 802.11ac (VHT80)

| Chan. | Freq. (MHz) | PSD W/O Duty Factor (dBm/300kHz) | | Duty Factor (dB) | Total PSD With Duty Factor | | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|---|---|---|---|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | mW/300kHz | dBm/300kHz | | | |
| 155 | 5775 | -11.45 | -10.99 | 0.23 | 0.1594 | -7.98 | -5.76 | 27.83 | Pass |

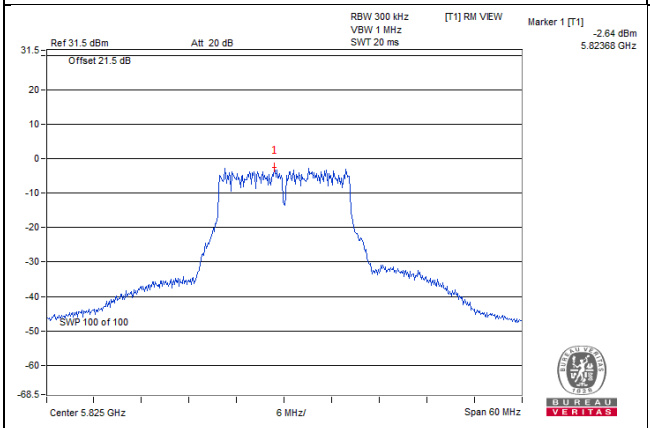
Note: 1. Method b) of power density measurement of KDB 662911 is using for calculating total power density. Total power density is summing entire spectra across corresponding frequency bins on the various outputs by computer.

2. The directional gain = 5.16dBi + 10log(2) = 8.17dBi > 6dBi , so the power density limit shall be reduced to 30-(8.17-6) = 27.83dBm.

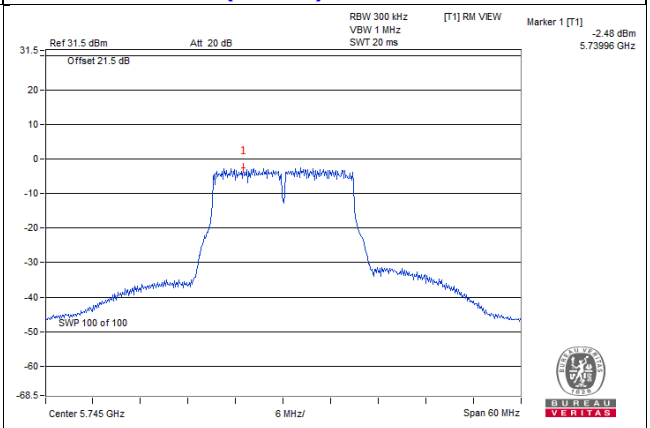
3. Refer to section 3.3 for duty cycle spectrum plot.

Spectrum Plot of Worst Value

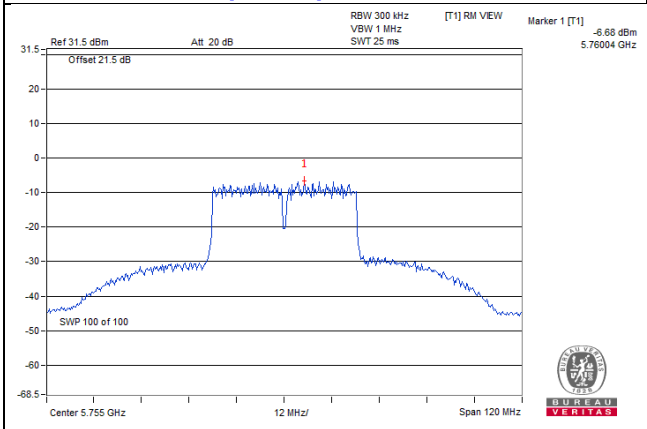
**802.11a / CH165**



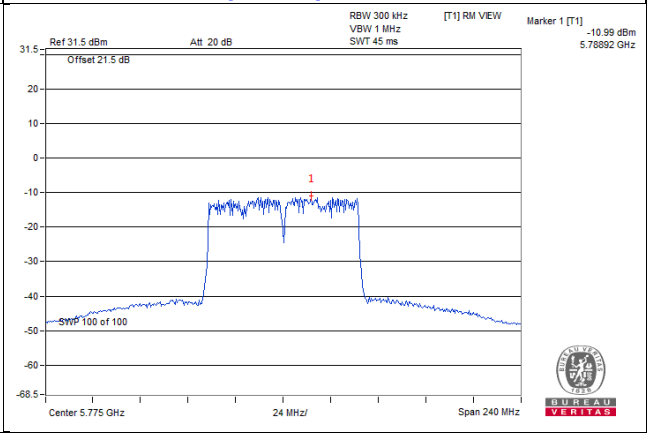

**802.11ac (VHT20)_Chain 1 / CH149**




**802.11ac (VHT40)_Chain 0 / CH151**




**802.11ac (VHT80)_Chain 1 / CH155**

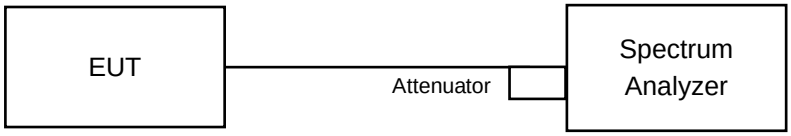


## 4.5 6dB Bandwidth Measurement

### 4.5.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

### 4.5.2 Test Setup




### 4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

### 4.5.4 Test Procedure

**MEASUREMENT PROCEDURE REF**

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

### 4.5.5 Deviation from Test Standard

No deviation.

### 4.5.6 EUT Operating Condition

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

4.5.7 Test Results

**802.11a**

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|
| 149 | 5745 | 16.40 | 0.5 | Pass |
| 157 | 5785 | 16.41 | 0.5 | Pass |
| 165 | 5825 | 16.41 | 0.5 | Pass |

**802.11ac (VHT20)**

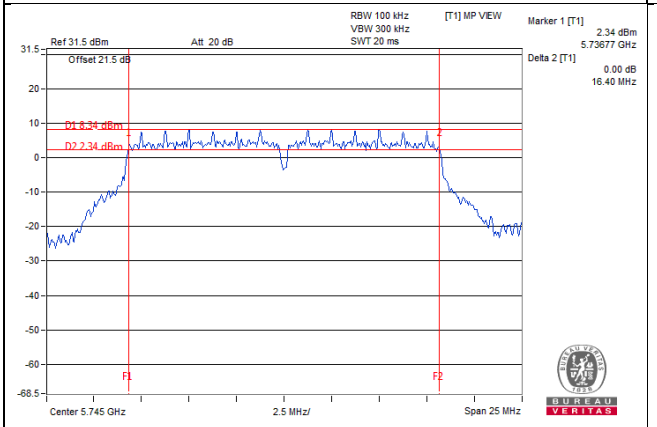
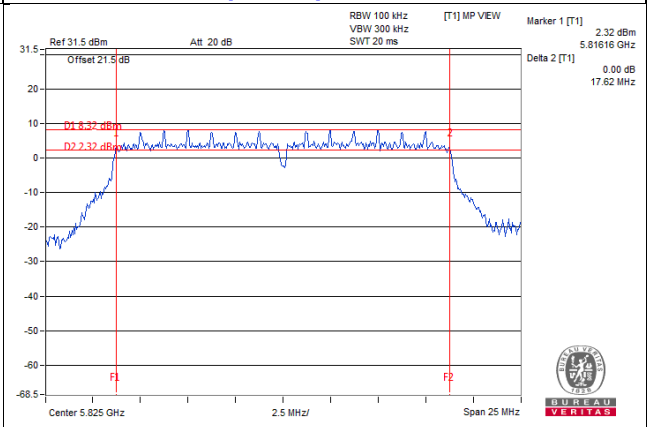
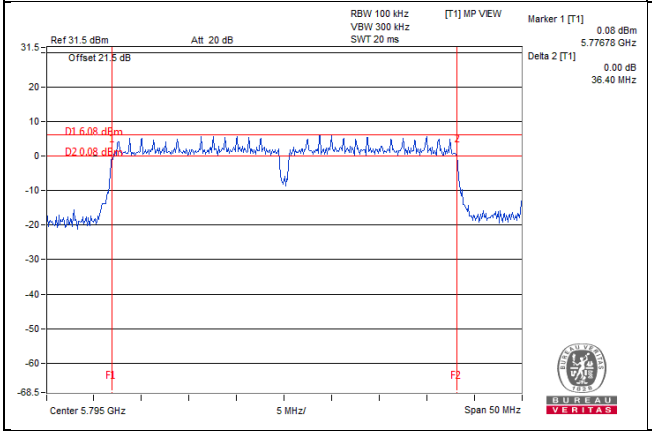
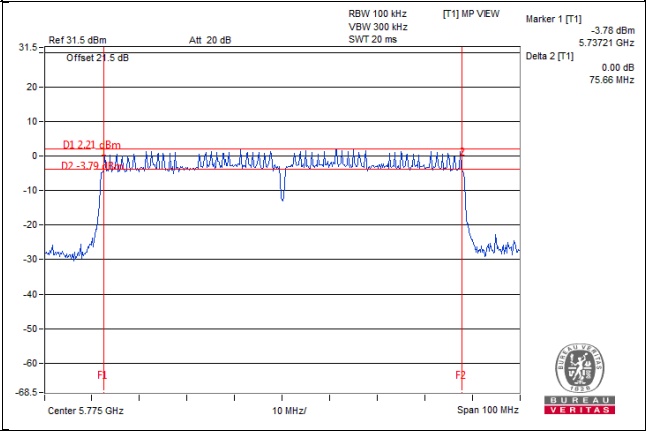
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | |
| 149 | 5745 | 17.66 | 17.64 | 0.5 | Pass |
| 157 | 5785 | 17.65 | 17.65 | 0.5 | Pass |
| 165 | 5825 | 17.62 | 17.62 | 0.5 | Pass |

**802.11ac (VHT40)**

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | |
| 151 | 5755 | 36.43 | 36.46 | 0.5 | Pass |
| 159 | 5795 | 36.40 | 36.44 | 0.5 | Pass |

**802.11ac (VHT80)**

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | Minimum Limit (MHz) | Pass / Fail |
|---|---|---|---|---|---|
| | | Chain 0 | Chain 1 | | |
| 155 | 5775 | 75.66 | 76.33 | 0.5 | Pass |

| Spectrum Plot of Worst Value | |
|---|---|
| **802.11a / CH149** | **802.11ac (VHT20)_Chain 0 / CH165** |
|  |  |
| **802.11ac (VHT40)_Chain 0 / CH159** | **802.11ac (VHT80)_Chain 0 / CH155** |
|  |  |

## 5 Pictures of Test Arrangements

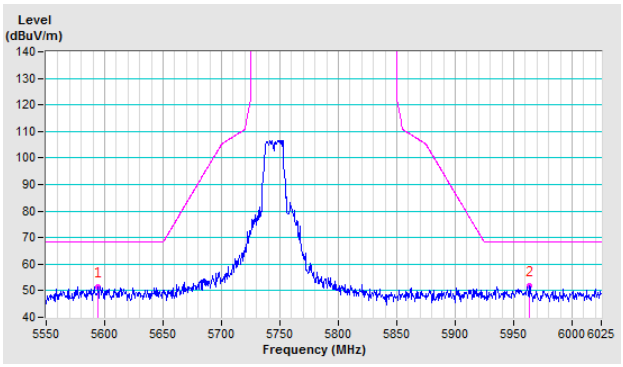
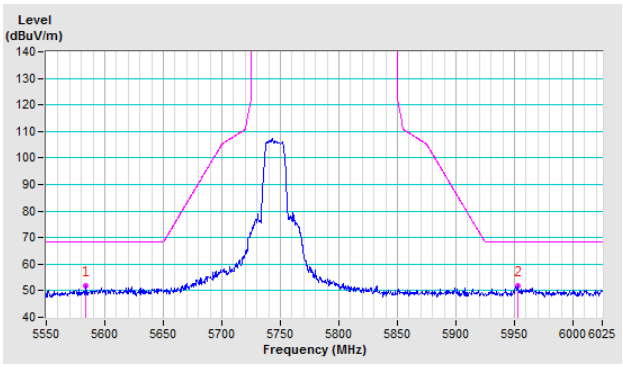
Please refer to the attached file (Test Setup Photo).

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

**PIFA Antenna**

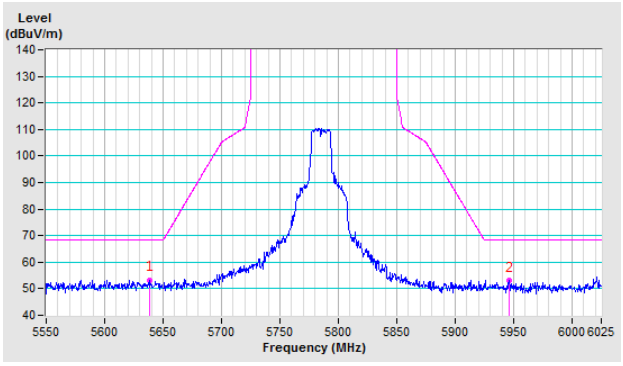
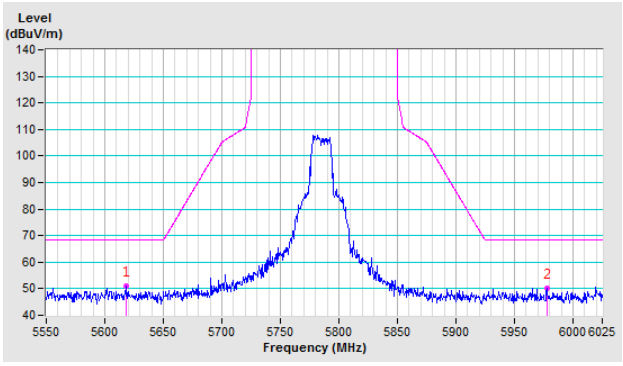
### 802.11a

**CH 149 5745 MHz**

| Horizontal | Vertical |
|---|---|
|  |  |

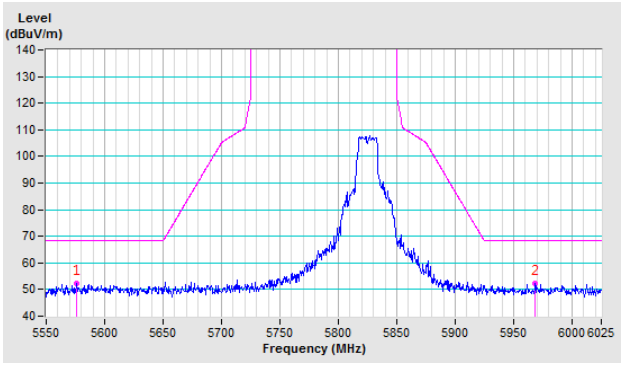
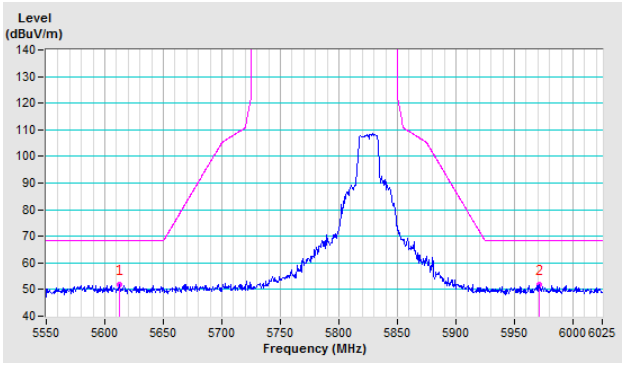


**CH 157 5785 MHz**

| Horizontal | Vertical |
|---|---|
|  |  |

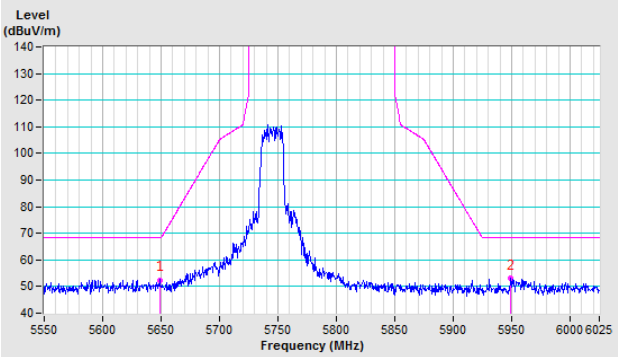
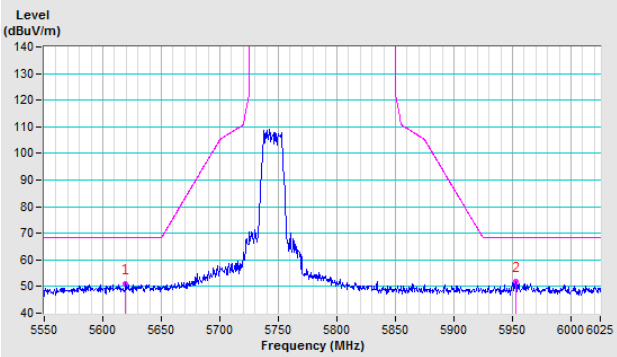


**CH 165 5825 MHz**

| Horizontal | Vertical |
|---|---|
|  |  |

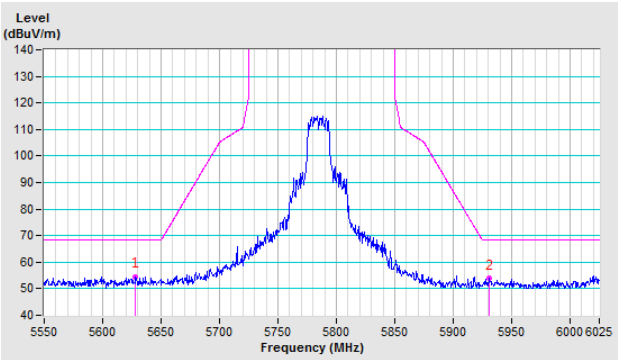
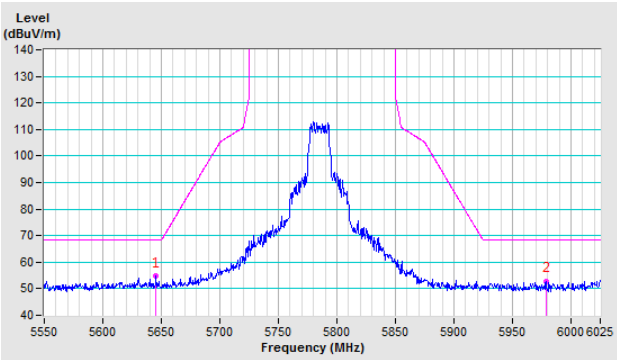
## 802.11ac (VHT20)

### CH 149 5745 MHz

| Horizontal | Vertical |
|---|---|
|  |  |

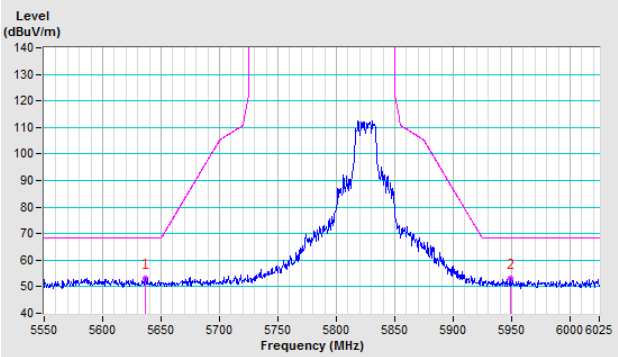
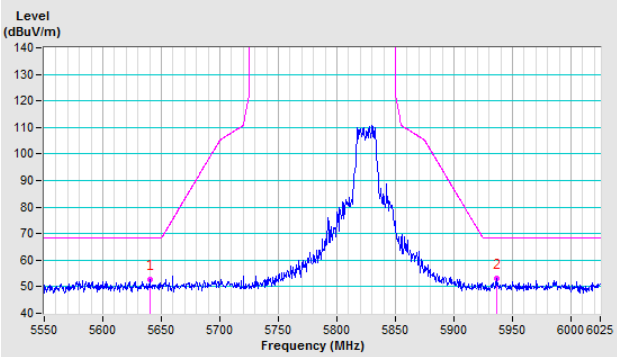


### CH 157 5785 MHz

| Horizontal | Vertical |
|---|---|
|  |  |

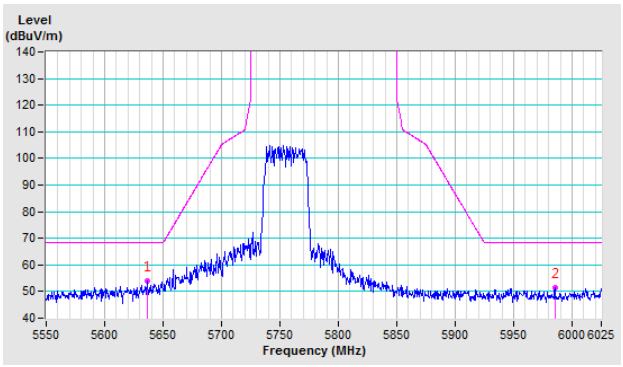
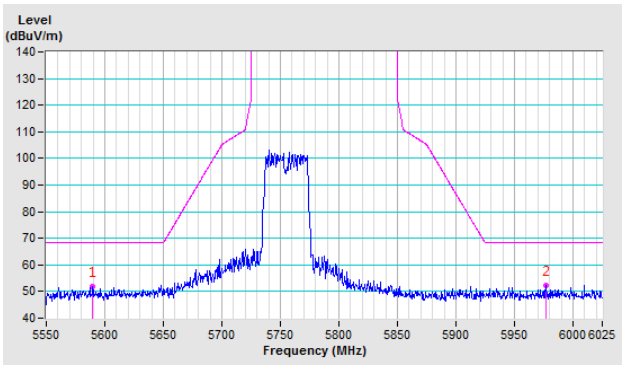


### CH 165 5825 MHz

| Horizontal | Vertical |
|---|---|
|  |  |

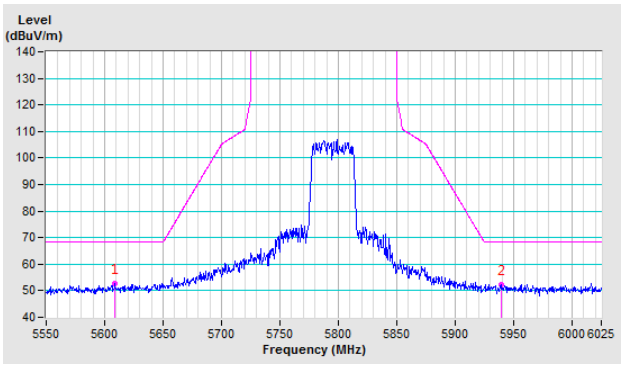
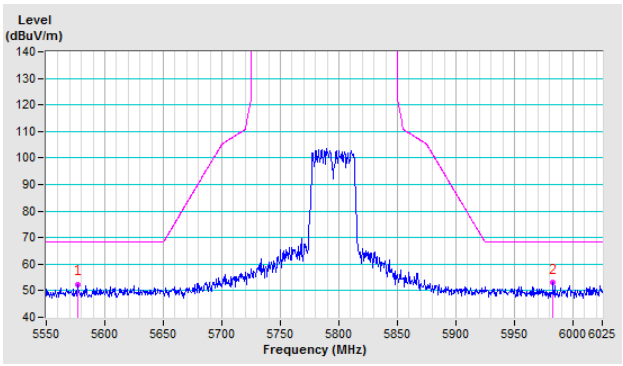
## 802.11ac (VHT40)

### CH 151 5755 MHz

| Horizontal | Vertical |
|---|---|
|  |  |



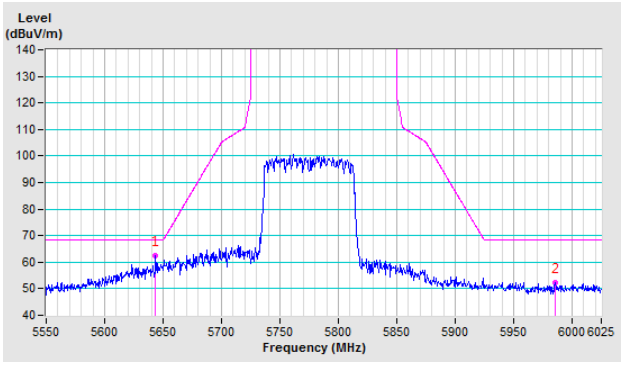
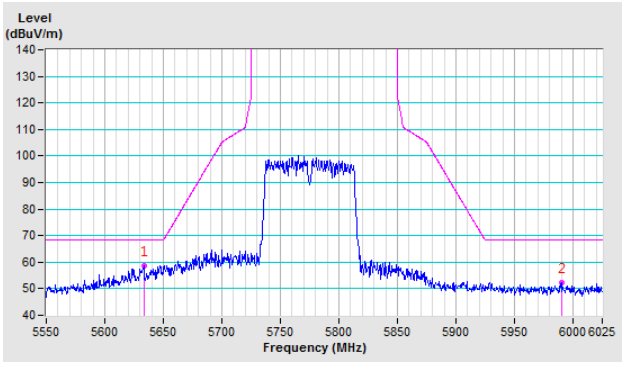
### CH 159 5795 MHz

| Horizontal | Vertical |
|---|---|
|  |  |



## 802.11ac (VHT80)

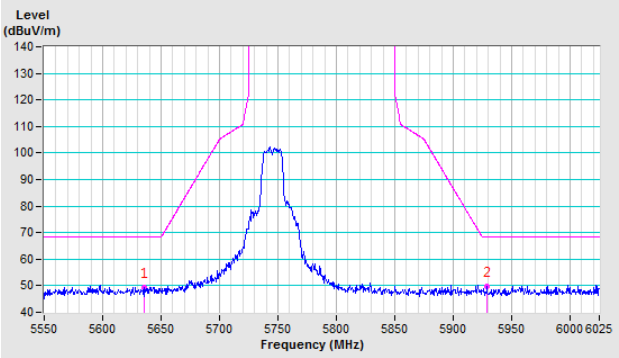
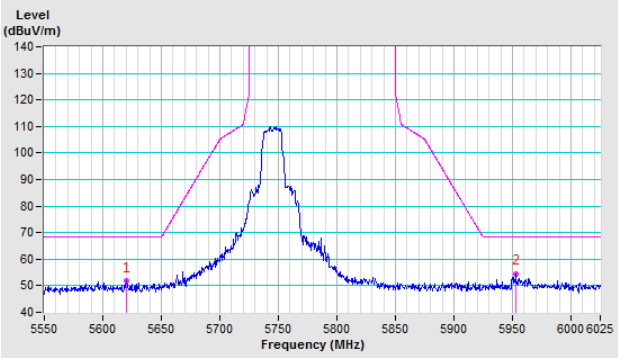
### CH 155 5775 MHz

| Horizontal | Vertical |
|---|---|
|  |  |

**Dipole Antenna**

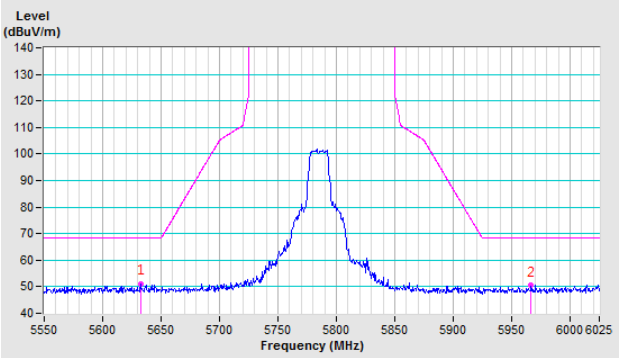
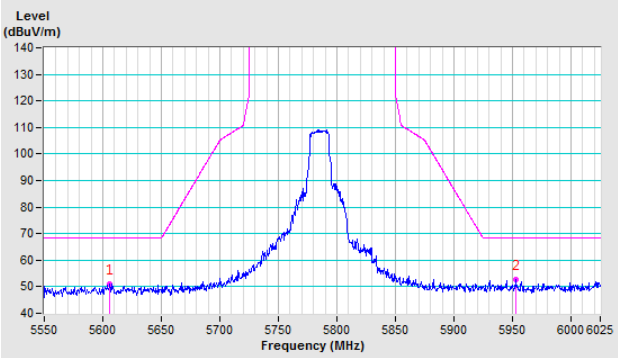
**802.11a**

**CH 149 5745 MHz**

| Horizontal | Vertical |
|---|---|
|  |  |

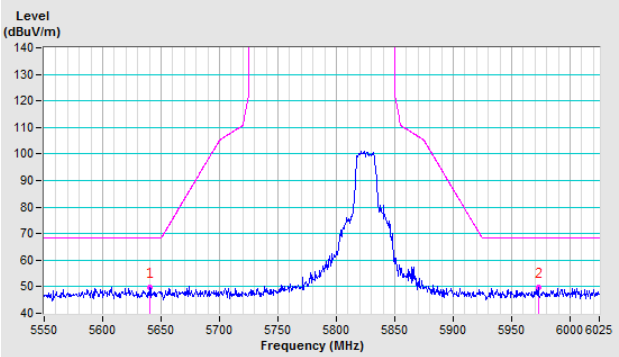
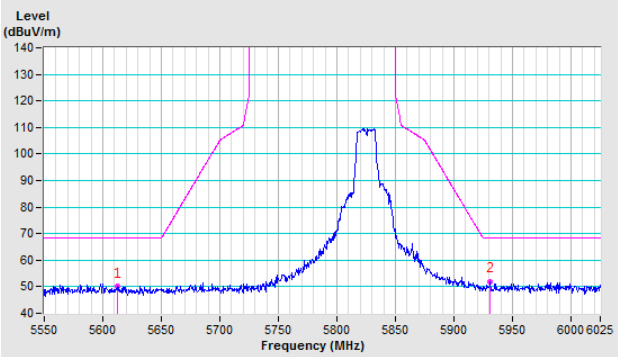


**CH 157 5785 MHz**

| Horizontal | Vertical |
|---|---|
|  |  |

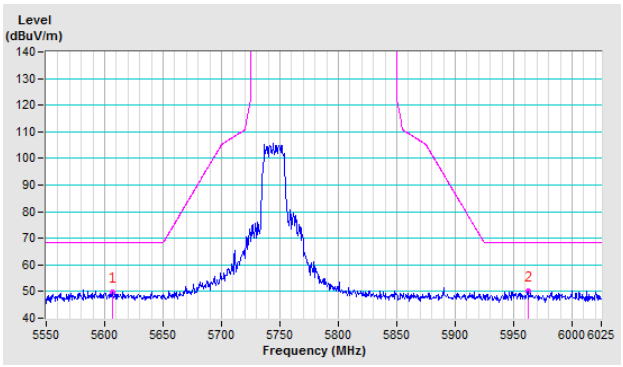
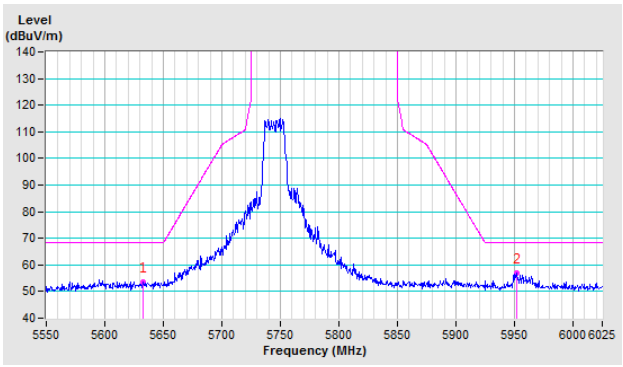


**CH 165 5825 MHz**

| Horizontal | Vertical |
|---|---|
|  |  |

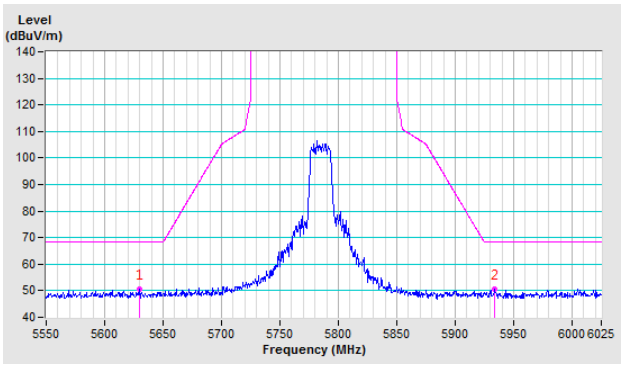
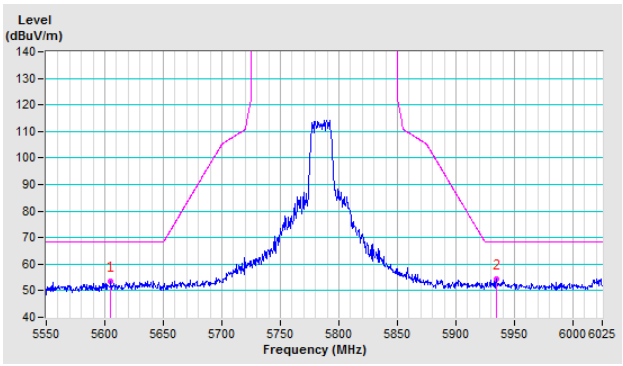
## 802.11ac (VHT20)

### CH 149 5745 MHz

| Horizontal | Vertical |
|---|---|
|  |  |

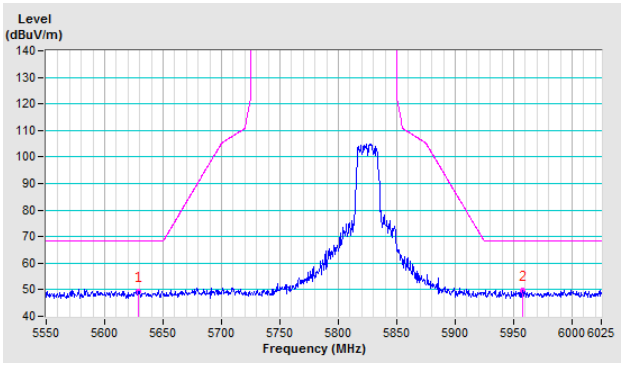
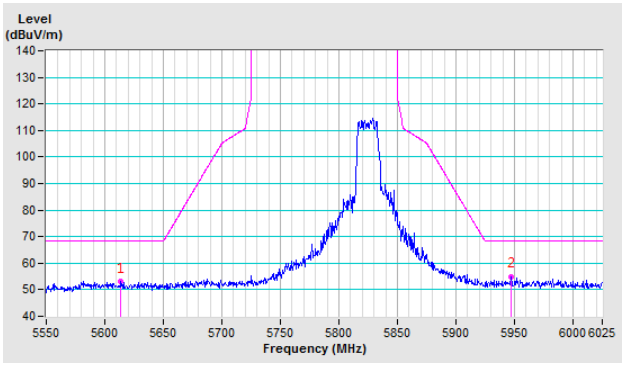


### CH 157 5785 MHz

| Horizontal | Vertical |
|---|---|
|  |  |

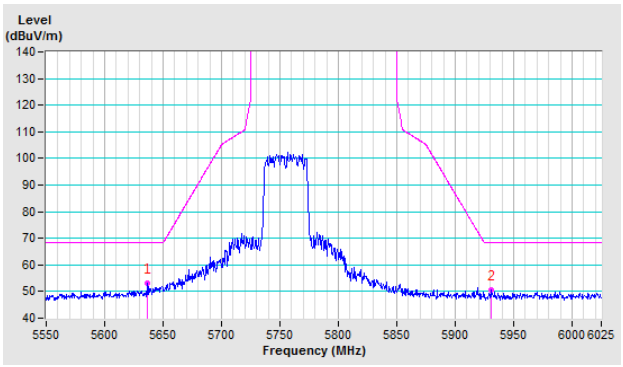
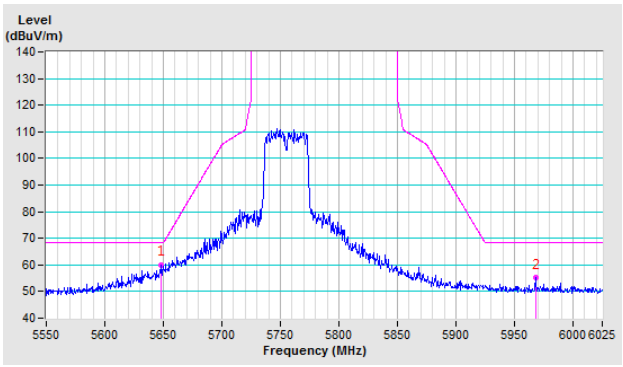


### CH 165 5825 MHz

| Horizontal | Vertical |
|---|---|
|  |  |

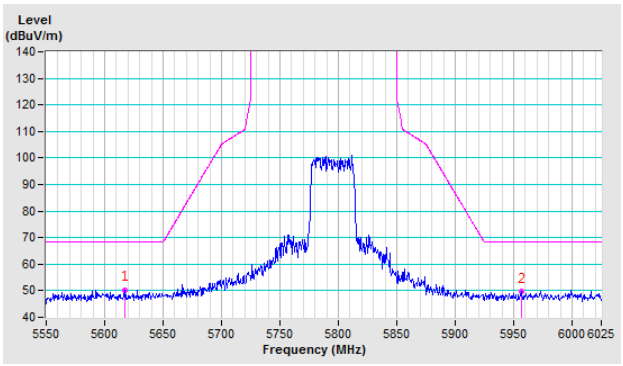
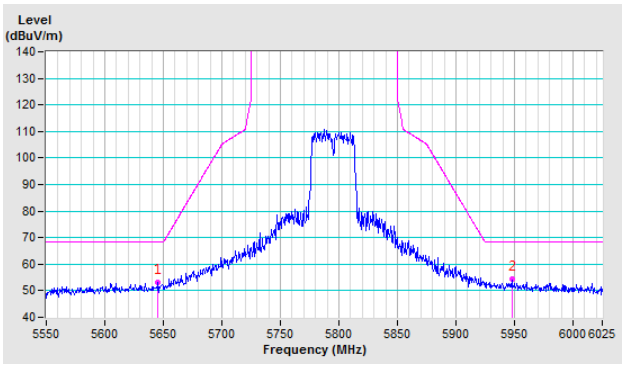
## 802.11ac (VHT40)

### CH 151 5755 MHz

| Horizontal | Vertical |
|---|---|
|  |  |



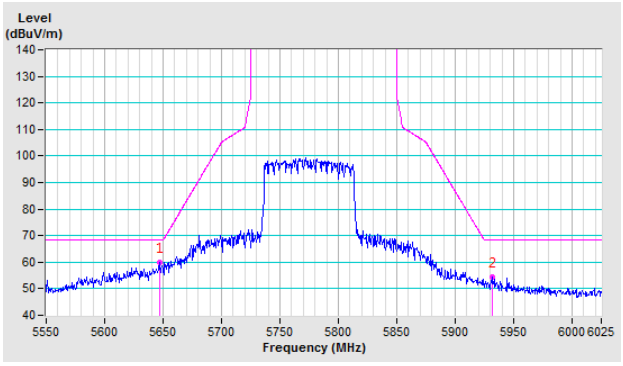
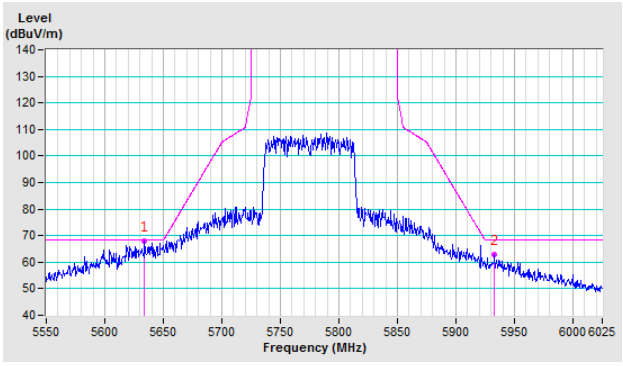
### CH 159 5795 MHz

| Horizontal | Vertical |
|---|---|
|  |  |



## 802.11ac (VHT80)

### CH 155 5775 MHz

| Horizontal | Vertical |
|---|---|
|  |  |

**Appendix – Information on the Testing Laboratories**

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

If you have any comments, please feel free to contact us at the following: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The address and road map of all our labs can be found in our web site also.

**--- END ---**