

FCC Test Report (WLAN)

Report No.: RF170912E01-1

FCC ID: 2AHBN-AP61

Test Model: AP61

Received Date: Sep. 14, 2017

Test Date: Sep. 25 to Oct. 05, 2017

Issued Date: Oct. 27, 2017

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Release Control Record

| Issue No. | Description | Date Issued |
|---------------|-------------------|---------------|
| RF170912E01-1 | Original release. | Oct. 27, 2017 |

1 Certificate of Conformity

Product: Premium Outdoor Wi-Fi & BLE Array AP

Brand: Mist

Test Model: AP61

Sample Status: ENGINEERING SAMPLE

Applicant: Mist Systems, Inc.

Test Date: Sep. 25 to Oct. 05, 2017

Standard: 47 CFR FCC Part 15, Subpart E (Section 15.407)

ANSI C63.10: 2013

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


Prepared by : _____, **Date:** Oct. 27, 2017

Mary Ko / Specialist


Approved by : _____, **Date:** Oct. 27, 2017

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)(6) | AC Power Conducted Emissions | Pass | Meet the requirement of limit. Minimum passing margin is -13.1dB at 0.16172MHz. |
| 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 -2.6dB at 5150.00MHz. |
| 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) |
| 15.407(g) | Frequency Stability | Pass | Meet the requirement of limit. |
| 15.203 | Antenna Requirement | Pass | Antenna connector is i-pex(MHF) not a standard connector. |

*For U-NII-3 band compliance with rule part 15.407(b)(4)(i), the OOB 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) (±) |
|------------------------------------|----------------|--------------------------------|
| Conducted Emissions at mains ports | 150kHz ~ 30MHz | 1.84 dB |
| Radiated Emissions up to 1 GHz | 30MHz ~ 1GHz | 5.32 dB |
| Radiated Emissions above 1 GHz | 1GHz ~ 6GHz | 5.14 dB |
| | 6GHz ~ 18GHz | 5.04 dB |
| | 18GHz ~ 40GHz | 5.25 dB |

2.2 Modification Record

There were no modifications required for compliance.

3 General Information

3.1 General Description of EUT (WLAN)

| | |
|-----------------------|--|
| Product | Premium Outdoor Wi-Fi & BLE Array AP |
| Brand | Mist |
| Test Model | AP61 |
| Status of EUT | ENGINEERING SAMPLE |
| Power Supply Rating | 802.3at (50-57Vdc) |
| Modulation Type | CCK, DQPSK, DBPSK for DSSS 64QAM, 16QAM, QPSK, BPSK for OFDM 256QAM for OFDM in 11ac mode and VHT (20/40) mode in 2.4GHz |
| Modulation Technology | DSSS, OFDM |
| Transfer Rate | 802.11b: up to 11Mbps 802.11a/g: up to 54Mbps 802.11n: up to 600Mbps 802.11ac: up to 1733.3Mbps |
| Operating Frequency | 2.4GHz: 2.412 ~ 2.462GHz 5GHz: 5.18~ 5.24GHz, 5.745 ~ 5.825GHz |
| Number of Channel | 2.4GHz: 802.11b, 802.11g, 802.11n (HT20), VHT20: 11 802.11n (HT40), VHT40: 7 5GHz: 802.11a, 802.11n (HT20), 802.11ac (VHT20): 9 802.11n (HT40), 802.11ac (VHT40): 4 802.11ac (VHT80): 2 |
| Output Power | 2.4GHz: 1TX: 210.863mW CDD Mode: 4TX: 631.677mW 3TX: 476.598mW 2TX: 333.374mW Beamforming Mode: 4TX: 388.252mW 3TX: 464.678mW 2TX: 362.241mW 5GHz: 5.18 ~ 5.24GHz: 1TX: 40.272mW CDD Mode: 4TX: 39.684mW 3TX: 37.834mW 2TX: 37.892mW Beamforming Mode: 4TX: 10.899mW 3TX: 13.663mW 2TX: 19.981mW 5.745 ~ 5.825GHz: 1TX: 241.546mW CDD Mode: 4TX: 957.748mW 3TX: 743.952mW 2TX: 480.319mW Beamforming Mode: 4TX: 323.662mW 3TX: 433.745mW 2TX: 522.933mW |

| | |
|---------------------|---------------|
| Antenna Type | Refer to Note |
| Antenna Connector | Refer to Note |
| Accessory Device | NA |
| Data Cable Supplied | NA |

Note:

1. There are WLAN and Bluetooth technology used for the EUT. The EUT has three radios as following table:

| Radio 1 | Radio 2 | Radio 3 |
|----------------------|--|-----------|
| WLAN - 2.4GHz + 5GHz | (Scanning Radio) WLAN RX only - 2.4GHz + 5GHz | Bluetooth |

2. Simultaneously transmission condition.

| Condition | Technology | |
|-----------|-----------------------|--------------------|
| 1 | WLAN 2.4GHz (Radio 1) | Bluetooth(Radio 3) |
| 2 | WLAN 5GHz (Radio 1) | Bluetooth(Radio 3) |

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

3. The EUT must be supplied with a POE (only for test not for sale) as following table:

| Brand | Model No. | Spec. |
|-----------|-----------------|--|
| Microsemi | PD-9001GR/AT/AC | Input: 100-240Vac, 50/60Hz, 0.67A Output: 55Vdc, 0.6A |

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

Radio 1

| WLAN - 2.4GHz + 5GHz (Internal antenna) | | | | | |
|---|---------------------|------------------------|-----------------------|--------------|----------------|
| Antenna No. | Transmitter Circuit | Antenna Net Gain (dBi) | Frequency Range (GHz) | Antenna Type | Connector Type |
| 1 | Chain (0) | 3.87 | 2.4~2.4835 | PIFA | i-pex(MHF) |
| | | 4.94 | 5.15~5.25 | | |
| | | 4.66 | 5.25~5.35 | | |
| | | 4.25 | 5.47~5.725 | | |
| | | 4.42 | 5.725~5.85 | | |
| 2 | Chain (1) | 3.91 | 2.4~2.4835 | PIFA | i-pex(MHF) |
| | | 4.23 | 5.15~5.25 | | |
| | | 4.54 | 5.25~5.35 | | |
| | | 4.66 | 5.47~5.725 | | |
| | | 4.70 | 5.725~5.85 | | |
| 3 | Chain (2) | 3.93 | 2.4~2.4835 | PIFA | i-pex(MHF) |
| | | 4.53 | 5.15~5.25 | | |
| | | 4.86 | 5.25~5.35 | | |
| | | 4.95 | 5.47~5.725 | | |
| | | 4.94 | 5.725~5.85 | | |
| 4 | Chain (3) | 3.81 | 2.4~2.4835 | PIFA | i-pex(MHF) |
| | | 4.50 | 5.15~5.25 | | |
| | | 4.92 | 5.25~5.35 | | |
| | | 4.71 | 5.47~5.725 | | |
| | | 4.90 | 5.725~5.85 | | |

Radio 2

| WLAN RX only - 2.4GHz + 5GHz (Scanning radio antenna) | | | | | |
|---|---------------------|------------------------|-----------------------|--------------|----------------|
| Antenna No. | Transmitter Circuit | Antenna Net Gain (dBi) | Frequency Range (GHz) | Antenna Type | Connector Type |
| 1 | Chain (0) | 3.85 | 2.4~2.4835 | PIFA | i-pex(MHF) |
| | | 4.61 | 5.15~5.25 | | |
| | | 4.71 | 5.25~5.35 | | |
| | | 4.72 | 5.47~5.725 | | |
| | | 4.73 | 5.725~5.85 | | |

Radio 3

| Bluetooth | | | | | |
|-------------|---------------------|------------------------|-----------------------|--------------|----------------|
| Antenna No. | Transmitter Circuit | Antenna Net Gain (dBi) | Frequency Range (GHz) | Antenna Type | Connector Type |
| 1 | Chain (0) | 3.56 | 2.4~2.4835 | Omni | i-pex(MHF) |
| 2 | Chain (1) | 5.01 | 2.4~2.4835 | Patch | i-pex(MHF) |

Note: Max. gain was selected for the final test.

5. The EUT incorporates a MIMO function:

| 2.4GHz Band | | | |
|------------------|-----------------|-----------------------|-----|
| MODULATION MODE | DATA RATE (MCS) | TX & RX CONFIGURATION | |
| 802.11b | 1 ~ 11Mbps | 4TX | 4RX |
| 802.11g | 6 ~ 54Mbps | 4TX | 4RX |
| 802.11n (HT20) | MCS 0~7 | 4TX | 4RX |
| | MCS 8~15 | 4TX | 4RX |
| | MCS 16~23 | 4TX | 4RX |
| | MCS 24~31 | 4TX | 4RX |
| 802.11n (HT40) | MCS 0~7 | 4TX | 4RX |
| | MCS 8~15 | 4TX | 4RX |
| | MCS 16~23 | 4TX | 4RX |
| | MCS 24~31 | 4TX | 4RX |
| VHT20 | MCS 0~7 | 4TX | 4RX |
| | MCS 8~15 | 4TX | 4RX |
| | MCS 16~23 | 4TX | 4RX |
| | MCS 24~31 | 4TX | 4RX |
| VHT40 | MCS 0~7 | 4TX | 4RX |
| | MCS 8~15 | 4TX | 4RX |
| | MCS 16~23 | 4TX | 4RX |
| | MCS 24~31 | 4TX | 4RX |
| 5GHz Band | | | |
| MODULATION MODE | DATA RATE (MCS) | TX & RX CONFIGURATION | |
| 802.11a | 6 ~ 54Mbps | 4TX | 4RX |
| 802.11n (HT20) | MCS 0~7 | 4TX | 4RX |
| | MCS 8~15 | 4TX | 4RX |
| | MCS 16~23 | 4TX | 4RX |
| | MCS 24~31 | 4TX | 4RX |
| 802.11n (HT40) | MCS 0~7 | 4TX | 4RX |
| | MCS 8~15 | 4TX | 4RX |
| | MCS 16~23 | 4TX | 4RX |
| | MCS 24~31 | 4TX | 4RX |
| 802.11ac (VHT20) | MCS 0~8, Nss=1 | 4TX | 4RX |
| | MCS 0~8, Nss=2 | 4TX | 4RX |
| | MCS 0~9, Nss=3 | 4TX | 4RX |
| | MCS 0~8, Nss=4 | 4TX | 4RX |
| 802.11ac (VHT40) | MCS 0~9, Nss=1 | 4TX | 4RX |
| | MCS 0~9, Nss=2 | 4TX | 4RX |
| | MCS 0~9, Nss=3 | 4TX | 4RX |
| | MCS 0~9, Nss=4 | 4TX | 4RX |
| 802.11ac (VHT80) | MCS 0~9, Nss=1 | 4TX | 4RX |
| | MCS 0~9, Nss=2 | 4TX | 4RX |
| | MCS 0~9, Nss=3 | 4TX | 4RX |
| | MCS 0~9, Nss=4 | 4TX | 4RX |

Note:

1. All of modulation mode support beamforming function except 802.11a/b/g modulation mode.
2. The EUT support Beamforming and CDD mode, therefore both mode were investigated and the worst case scenario was identified. The worst case data were presented in test report.
3. The modulation and bandwidth are similar for 802.11n mode for 20MHz (40MHz) and 802.11ac mode for 20MHz (40MHz), therefore investigated worst case to representative mode in test report.

6. The above EUT information is declared by manufacturer and for more detailed features description, please refer 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 | 5180MHz | 44 | 5220MHz |
| 40 | 5200MHz | 48 | 5240MHz |

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

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

1 channel is provided for 802.11ac (VHT80):

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

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 | PLC | APCM | |
| 1 | √ | √ | √ | √ | 4TX Mode |
| 2 | √ | - | - | √ | 3TX Mode |
| 3 | √ | - | - | √ | 2TX Mode |
| 4 | √ | - | - | √ | 1TX Mode |

Where **RE≥1G:** Radiated Emission above 1GHz

RE<1G: Radiated Emission below 1GHz

PLC: Power Line Conducted Emission

APCM: Antenna Port Conducted Measurement

NOTE: “-” means no effect.

Radiated Emission Test (Above 1GHz):

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

| 4TX/3TX/2TX-CDD Mode | | | | | | |
|-------------------------------------|------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| 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 |
| | 5745-5825 | 149 to 165 | 149, 157, 165 | OFDM | BPSK | 6 |
| 4TX/3TX/2TX-Beamforming Mode | | | | | | |
| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
| 802.11ac (VHT20) | 5180-5240 | 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 |
| 802.11ac (VHT20) | 5745-5825 | 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 |
| 1TX | | | | | | |
| 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 | 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.

| 4TX-CDD Mode | | | | | | |
|--------------|------------------------|------------------------|----------------|-----------------------|-----------------|------------------|
| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
| 802.11a | 5180-5240 5745-5825 | 36 to 48 149 to 165 | 149 | OFDM | BPSK | 6 |

Power Line Conducted Emission Test:

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

| 4TX-CDD Mode | | | | | | |
|--------------|------------------------|------------------------|----------------|-----------------------|-----------------|------------------|
| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
| 802.11a | 5180-5240 5745-5825 | 36 to 48 149 to 165 | 149 | OFDM | BPSK | 6 |

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.

| 4TX/3TX/2TX-CDD Mode | | | | | | |
|------------------------------|------------------|-------------------|----------------|-----------------------|-----------------|------------------|
| 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 |
| | 5745-5825 | 149 to 165 | 149, 157, 165 | OFDM | BPSK | 6 |
| 4TX/3TX/2TX-Beamforming Mode | | | | | | |
| Mode | FREQ. Band (MHz) | Available Channel | Tested Channel | Modulation Technology | Modulation Type | Data Rate (Mbps) |
| 802.11ac (VHT20) | 5180-5240 | 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 |
| 802.11ac (VHT20) | 5745-5825 | 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 |
| 1TX | | | | | | |
| 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 | 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 (SYSTEM) | Tested By |
|---------------|--------------------------|----------------------|-----------------------|
| RE≥1G | 23deg. C, 72%RH | 120Vac, 60Hz | Weiwei Lo Rey chen |
| RE<1G | 25deg. C, 65%RH | 120Vac, 60Hz | Eason Tseng |
| PLC | 26deg. C, 74%RH | 120Vac, 60Hz | Andy Ho |
| APCM | 25deg. C, 60%RH | 120Vac, 60Hz | Anderson Chen |

3.3 Duty Cycle of Test Signal

If duty cycle of test signal is $\geq 98\%$, duty factor is not required.

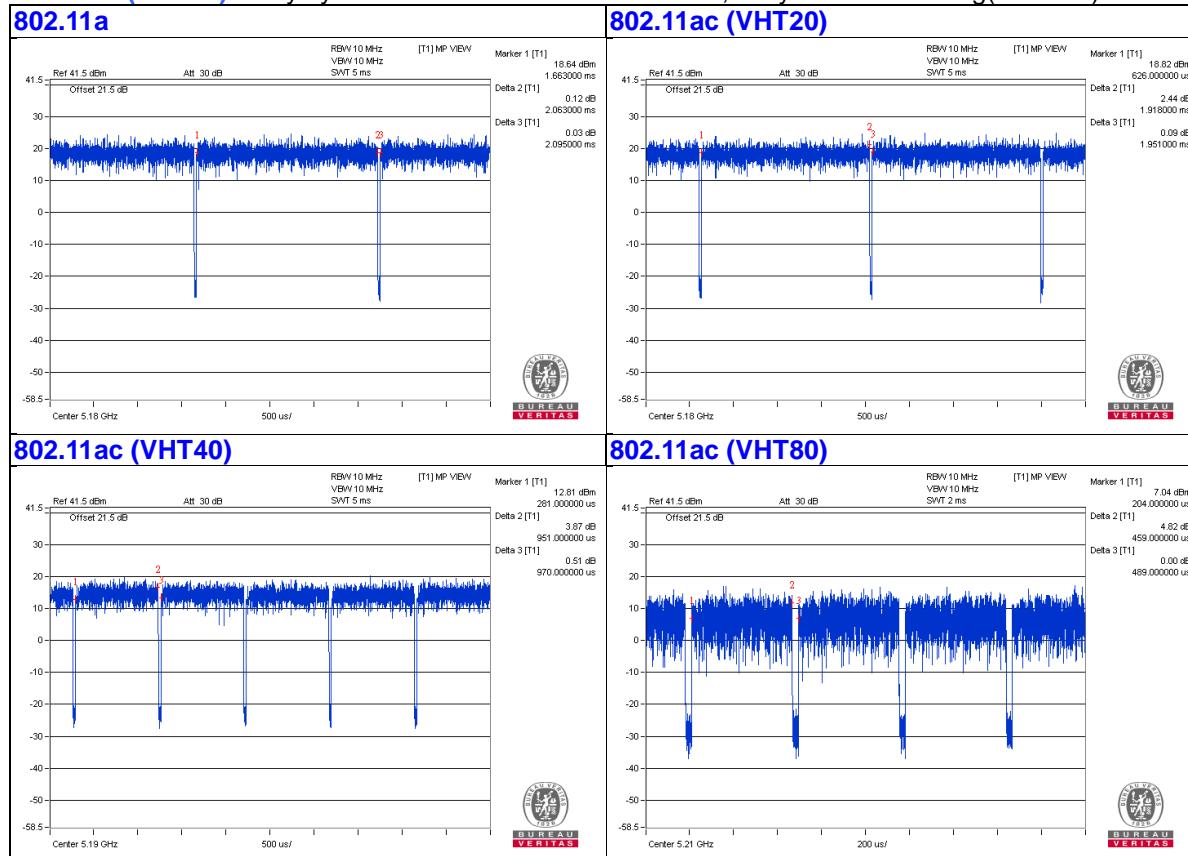
If duty cycle of test signal is $< 98\%$, duty factor shall be considered.

802.11a: Duty cycle = $2.063 \text{ ms} / 2.095 \text{ ms} = 0.985$

802.11ac (VHT20): Duty cycle = $1.918 \text{ ms} / 1.951 \text{ ms} = 0.983$

802.11ac (VHT40): Duty cycle = $0.951 \text{ ms} / 0.97 \text{ ms} = 0.98$

802.11ac (VHT80): Duty cycle = $0.459 \text{ ms} / 0.489 \text{ ms} = 0.939$, Duty factor = $10 * \log(1/0.939) = 0.27$



3.4 Description of Support Units

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

| ID | Product | Brand | Model No. | Serial No. | FCC ID | Remarks |
|----|---------|-----------|-----------------|------------|---------|--------------------|
| A. | Laptop | DELL | E6420 | B92T3R1 | FCC DoC | Provided by Lab |
| B. | Laptop | DELL | E6420 | 482T3R1 | FCC DoC | Provided by Lab |
| C. | PoE | Microsemi | PD-9001GR/AT/AC | NA | NA | Supplied by client |

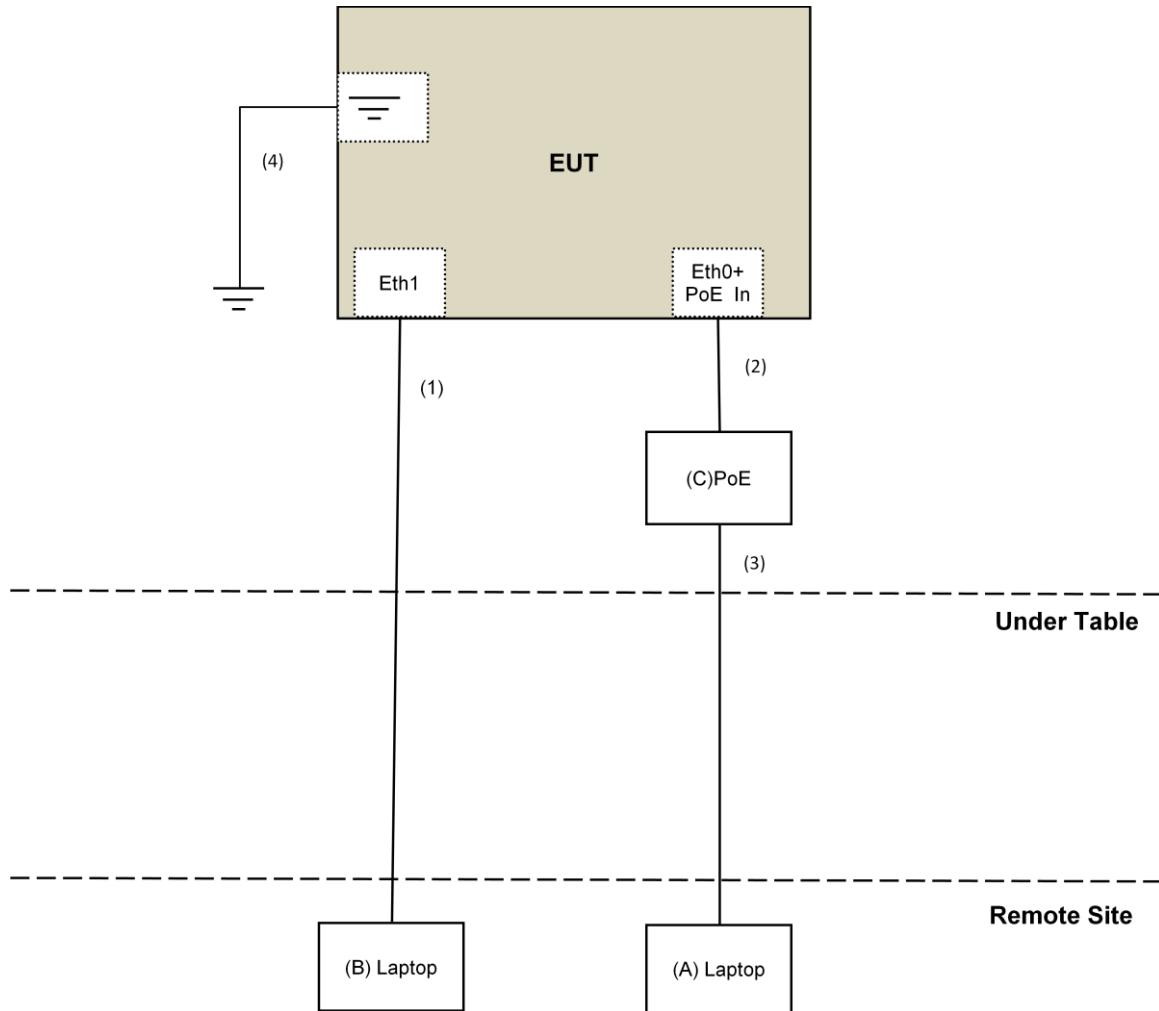
Note:

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

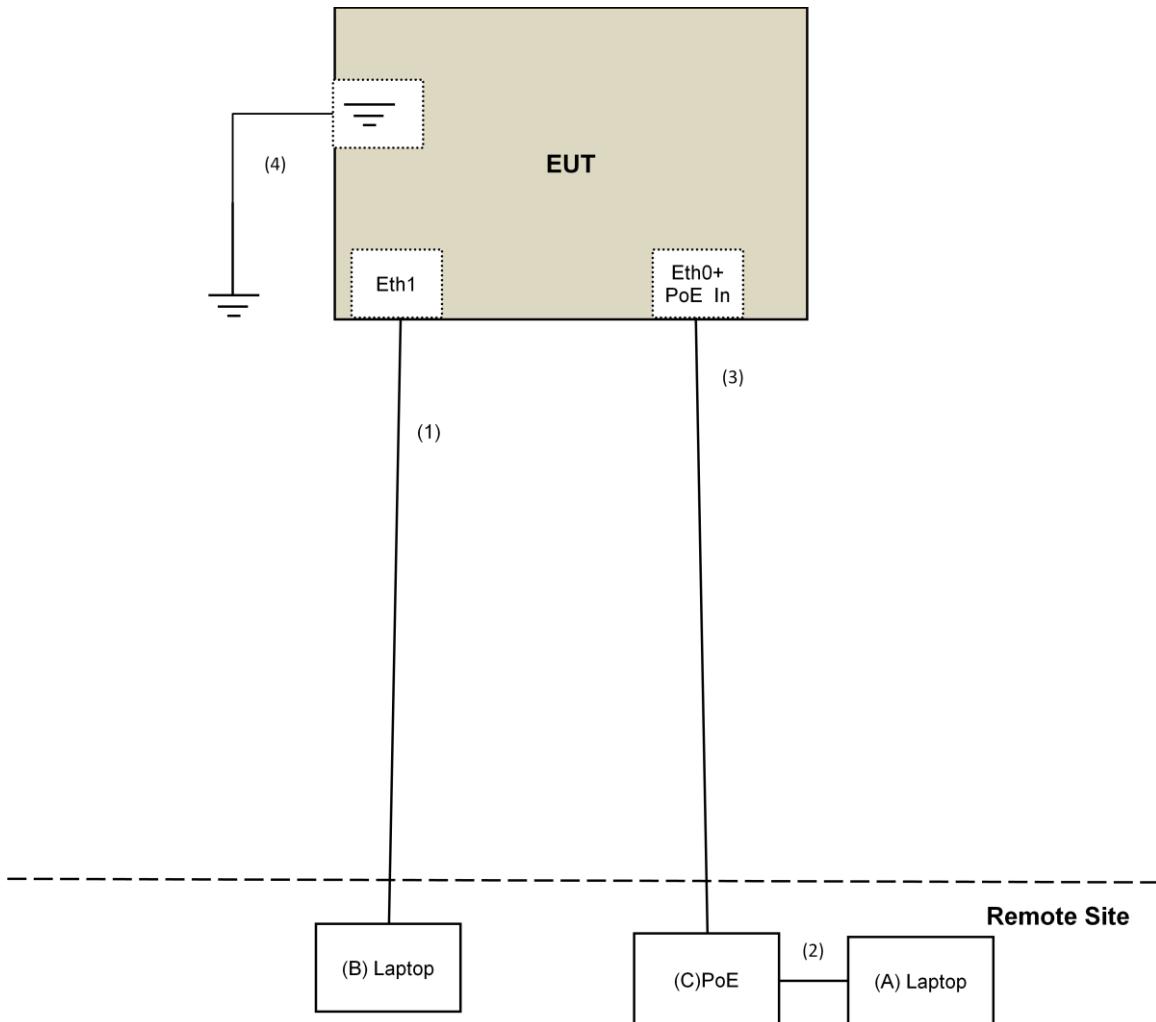
| ID | Descriptions | Qty. | Length (m) | Shielding (Yes/No) | Cores (Qty.) | Remarks |
|----|--------------|------|------------|--------------------|--------------|-----------------|
| 1. | RJ-45 Cable | 1 | 10 | No | 0 | Provided by Lab |
| 2. | RJ-45 Cable | 1 | 3 | No | 0 | Provided by Lab |
| 3.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

3.4.1 Configuration of System under Test

For Conducted Emission:



For other 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 v01r04

KDB 662911 D01 Multiple Transmitter Output v02r01

ANSI C63.10-2013

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

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

4 Test Types and Results

4.1 Radiated Emission and Bandedge Measurement

4.1.1 Limits of Radiated Emission and Bandedge Measurement

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

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

NOTE:

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

Limits of unwanted emission out of the restricted bands

| Applicable To | | Limit | |
|--|---|---|---|
| 789033 D02 General UNII Test Procedure New Rules v01r04 | | Field Strength at 3m | |
| | | PK:74 (dB _{UV} /m) | AV:54 (dB _{UV} /m) |
| Frequency Band | Applicable To | EIRP Limit | Equivalent Field Strength at 3m |
| 5150~5250 MHz | 15.407(b)(1) | | |
| 5250~5350 MHz | 15.407(b)(2) | PK:-27 (dBm/MHz) | PK:68.2(dB _{UV} /m) |
| 5470~5725 MHz | 15.407(b)(3) | | |
| 5725~5850 MHz | <input checked="" type="checkbox"/> 15.407(b)(4)(i) | PK:-27 (dBm/MHz) ^{*1} PK:10 (dBm/MHz) ^{*2} PK:15.6 (dBm/MHz) ^{*3} PK:27 (dBm/MHz) ^{*4} | PK: 68.2(dB _{UV} /m) ^{*1} PK:105.2 (dB _{UV} /m) ^{*2} PK: 110.8(dB _{UV} /m) ^{*3} PK:122.2 (dB _{UV} /m) ^{*4} |
| | | <input type="checkbox"/> 15.407(b)(4)(ii) | Emission limits in section 15.247(d) |

^{*1} beyond 75 MHz or more above of the band edge.
^{*2} below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above.
^{*3} below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above.
^{*4} from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

Note:

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

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

4.1.2 Test Instruments

For other test:

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|---|-------------------------------|---|---|
| Test Receiver Agilent | N9038A | MY50010156 | July 12, 2017 | July 11, 2018 |
| Pre-Amplifier ^(*) EMCI | EMC001340 | 980142 | Jan. 20, 2016 | Jan. 19, 2018 |
| Loop Antenna ^(*) Electro-Metrics | EM-6879 | 264 | Dec. 16, 2016 | Dec. 15, 2018 |
| RF Cable | NA | LOOPCAB-001 LOOPCAB-002 | Jan. 17, 2017 | Jan. 16, 2018 |
| Pre-Amplifier Mini-Circuits | ZFL-1000VH2B | AMP-ZFL-05 | May 06, 2017 | May 05, 2018 |
| Trilog Broadband Antenna SCHWARZBECK | VULB 9168 | 9168-361 | Dec. 29, 2016 | Dec. 28, 2017 |
| RF Cable | 8D | 966-3-1 966-3-2 966-3-3 | Apr. 01, 2017 | Mar. 31, 2018 |
| Fixed attenuator Mini-Circuits | UNAT-5+ | PAD-3m-3-01 | Oct. 05, 2016 | Oct. 04, 2017 |
| Horn_Antenna SCHWARZBECK | BBHA9120-D | 9120D-406 | Dec. 28, 2016 | Dec. 27, 2017 |
| Pre-Amplifier EMCI | EMC12630SE | 980384 | Feb. 02, 2017 | Feb. 01, 2018 |
| RF Cable | EMC104-SM-SM-1200 EMC104-SM-SM-2000 EMC104-SM-SM-5000 | 160922 150317 150322 | Feb. 02, 2017 Mar. 29, 2017 Mar. 29, 2017 | Feb. 01, 2018 Mar. 28, 2018 Mar. 28, 2018 |
| Spectrum Analyzer Keysight | N9030A | MY54490679 | July 25, 2017 | July 24, 2018 |
| Pre-Amplifier EMCI | EMC184045SE | 980386 | Feb. 02, 2017 | Feb. 01, 2018 |
| Horn_Antenna SCHWARZBECK | BBHA 9170 | BBHA9170608 | Dec. 15, 2016 | Dec. 14, 2017 |
| RF Cable | SUCOFLEX 102 | 36432/2 36433/2 | Jan. 15, 2017 | Jan. 14, 2018 |
| Software | ADT_Radiated_V8.7.08 | NA | NA | NA |
| Antenna Tower & Turn Table Max-Full | MF-7802 | MF780208406 | NA | NA |
| Boresight Antenna Fixture | FBA-01 | FBA-SIP01 | NA | NA |

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. *The 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. 3.
4. The FCC Designation Number is TW2022.
5. The CANADA Site Registration No. is 20331-1.
6. Loop antenna was used for all emissions below 30 MHz.
7. Tested Date: Sep. 25 to Oct. 03, 2017

For power test:

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|------------------|-------------------|----------------------------|-----------------------------|
| Spectrum Analyzer R&S | FSV40 | 100964 | July 1, 2017 | June 30, 2018 |
| Power meter Anritsu | ML2495A | 1014008 | May 11, 2017 | May 10, 2018 |
| Power sensor Anritsu | MA2411B | 0917122 | May 11, 2017 | May 10, 2018 |
| AC Power Source Extech Electronics | 6205 | 1440452 | NA | NA |
| Temperature & Humidity Chamber Giant Force | GTH-150-40-SP-AR | MAA0812-008 | Jan. 11, 2017 | Jan. 10, 2018 |
| Digital Multimeter FLUKE | 87III | 73680266 | Nov. 10, 2016 | Nov. 09, 2017 |

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. 3.
4. The FCC Designation Number is TW2022.
5. The CANADA Site Registration No. is 20331-1.
6. Loop antenna was used for all emissions below 30 MHz.
7. Tested Date: Oct. 05, 2017

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. Both X and Y axes of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Quasi-Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

NOTE:

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

For Radiated emission above 30MHz

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

Note:

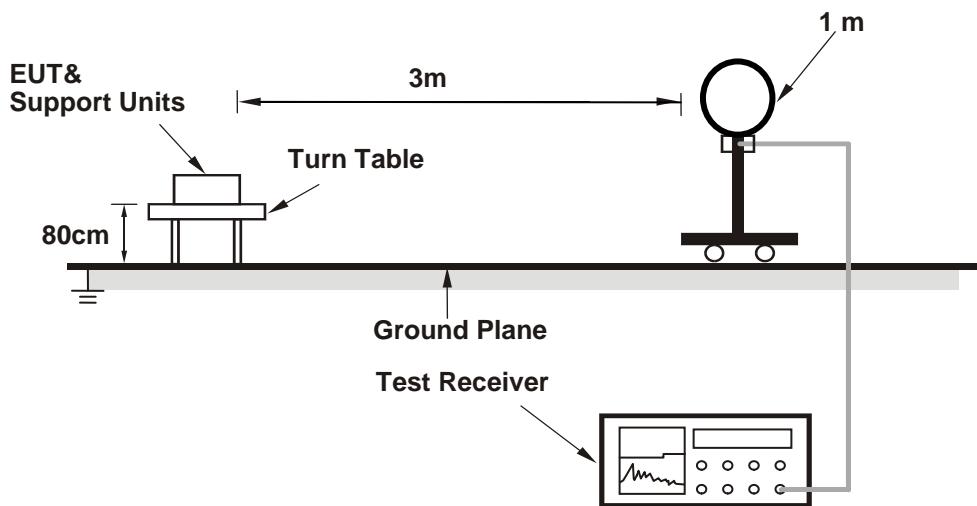
1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection (QP) at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz for Peak detection (PK) at frequency above 1GHz.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

4.1.4 Deviation from Test Standard

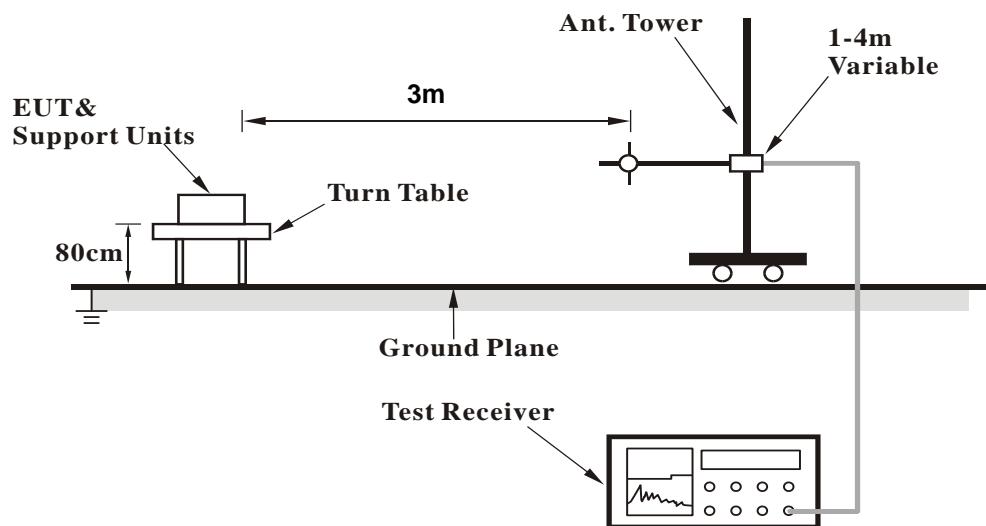
No deviation.

4.1.5 Test Setup

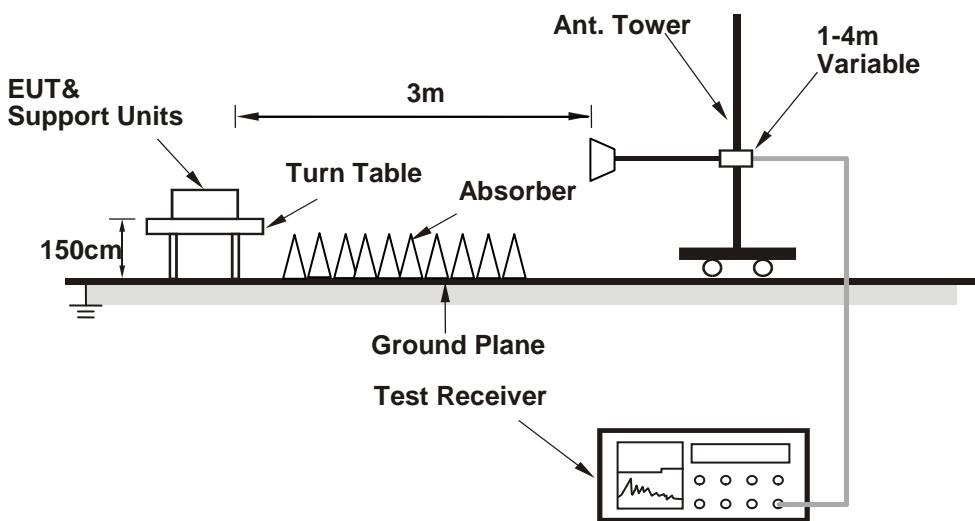
For Radiated emission below 30MHz



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

- Connected the EUT with the Laptop which is placed on remote site.
- Controlling software (Mtool_2_0_0_7) has been activated to set the EUT on specific status.

4.1.7 Test Results (Mode 1)

Above 1GHz Data:

802.11a

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 57.3 PK | 74.0 | -16.7 | 1.82 H | 326 | 53.6 | 3.7 |
| 2 | 5150.00 | 44.9 AV | 54.0 | -9.1 | 1.82 H | 326 | 41.2 | 3.7 |
| 3 | *5180.00 | 108.4 PK | | | 1.82 H | 326 | 104.7 | 3.7 |
| 4 | *5180.00 | 105.1 AV | | | 1.82 H | 326 | 101.4 | 3.7 |
| 5 | #10360.00 | 46.1 PK | 74.0 | -27.9 | 1.58 H | 128 | 33.1 | 13.0 |
| 6 | #10360.00 | 34.1 AV | 54.0 | -19.9 | 1.58 H | 128 | 21.1 | 13.0 |
| 7 | 15540.00 | 56.1 PK | 74.0 | -17.9 | 3.09 H | 311 | 43.0 | 13.1 |
| 8 | 15540.00 | 44.0 AV | 54.0 | -10.0 | 3.09 H | 311 | 30.9 | 13.1 |
| 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 | 5150.00 | 54.6 PK | 74.0 | -19.4 | 1.58 V | 338 | 50.9 | 3.7 |
| 2 | 5150.00 | 42.8 AV | 54.0 | -11.2 | 1.58 V | 338 | 39.1 | 3.7 |
| 3 | *5180.00 | 105.3 PK | | | 1.58 V | 338 | 101.6 | 3.7 |
| 4 | *5180.00 | 94.6 AV | | | 1.58 V | 338 | 90.9 | 3.7 |
| 5 | #10360.00 | 49.0 PK | 74.0 | -25.0 | 1.89 V | 14 | 36.0 | 13.0 |
| 6 | #10360.00 | 36.4 AV | 54.0 | -17.6 | 1.89 V | 14 | 23.4 | 13.0 |
| 7 | 15540.00 | 56.3 PK | 74.0 | -17.7 | 2.23 V | 331 | 43.2 | 13.1 |
| 8 | 15540.00 | 44.3 AV | 54.0 | -9.7 | 2.23 V | 331 | 31.2 | 13.1 |

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 40 | 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 | 57.5 PK | 74.0 | -16.5 | 1.84 H | 325 | 53.8 | 3.7 |
| 2 | 5150.00 | 45.1 AV | 54.0 | -8.9 | 1.84 H | 325 | 41.4 | 3.7 |
| 3 | *5200.00 | 108.8 PK | | | 1.84 H | 325 | 105.1 | 3.7 |
| 4 | *5200.00 | 105.4 AV | | | 1.84 H | 325 | 101.7 | 3.7 |
| 5 | 5350.00 | 55.9 PK | 74.0 | -18.1 | 1.84 H | 325 | 51.8 | 4.1 |
| 6 | 5350.00 | 44.1 AV | 54.0 | -9.9 | 1.84 H | 325 | 40.0 | 4.1 |
| 7 | #6933.00 | 55.2 PK | 74.0 | -18.8 | 1.45 H | 360 | 47.3 | 7.9 |
| 8 | #6933.00 | 50.1 AV | 54.0 | -3.9 | 1.45 H | 360 | 42.2 | 7.9 |
| 9 | #10400.00 | 45.6 PK | 74.0 | -28.4 | 1.56 H | 125 | 32.6 | 13.0 |
| 10 | #10400.00 | 33.6 AV | 54.0 | -20.4 | 1.56 H | 125 | 20.6 | 13.0 |
| 11 | 15600.00 | 55.6 PK | 74.0 | -18.4 | 3.13 H | 317 | 42.3 | 13.3 |
| 12 | 15600.00 | 43.6 AV | 54.0 | -10.4 | 3.13 H | 317 | 30.3 | 13.3 |

| 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 | 5150.00 | 54.2 PK | 74.0 | -19.8 | 1.54 V | 323 | 50.5 | 3.7 |
| 2 | 5150.00 | 42.3 AV | 54.0 | -11.7 | 1.54 V | 323 | 38.6 | 3.7 |
| 3 | *5200.00 | 105.3 PK | | | 1.54 V | 323 | 101.6 | 3.7 |
| 4 | *5200.00 | 94.8 AV | | | 1.54 V | 323 | 91.1 | 3.7 |
| 5 | 5350.00 | 54.1 PK | 74.0 | -19.9 | 1.54 V | 323 | 50.0 | 4.1 |
| 6 | 5350.00 | 41.8 AV | 54.0 | -12.2 | 1.54 V | 323 | 37.7 | 4.1 |
| 7 | #6933.00 | 53.6 PK | 74.0 | -20.4 | 1.54 V | 323 | 45.7 | 7.9 |
| 8 | #6933.00 | 47.6 AV | 54.0 | -6.4 | 1.54 V | 323 | 39.7 | 7.9 |
| 9 | #10400.00 | 48.9 PK | 74.0 | -25.1 | 1.85 V | 12 | 35.9 | 13.0 |
| 10 | #10400.00 | 36.6 AV | 54.0 | -17.4 | 1.85 V | 12 | 23.6 | 13.0 |
| 11 | 15600.00 | 56.2 PK | 74.0 | -17.8 | 2.26 V | 337 | 42.9 | 13.3 |
| 12 | 15600.00 | 44.4 AV | 54.0 | -9.6 | 2.26 V | 337 | 31.1 | 13.3 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5240.00 | 107.8 PK | | | 1.67 H | 360 | 104.0 | 3.8 |
| 2 | *5240.00 | 104.8 AV | | | 1.67 H | 360 | 101.0 | 3.8 |
| 3 | 5402.00 | 59.6 PK | 74.0 | -14.4 | 1.67 H | 360 | 55.5 | 4.1 |
| 4 | 5402.00 | 47.3 AV | 54.0 | -6.7 | 1.67 H | 360 | 43.2 | 4.1 |
| 5 | #10480.00 | 45.5 PK | 74.0 | -28.5 | 1.60 H | 133 | 32.3 | 13.2 |
| 6 | #10480.00 | 33.5 AV | 54.0 | -20.5 | 1.60 H | 133 | 20.3 | 13.2 |
| 7 | 15720.00 | 56.1 PK | 74.0 | -17.9 | 3.11 H | 303 | 42.5 | 13.6 |
| 8 | 15720.00 | 44.0 AV | 54.0 | -10.0 | 3.11 H | 303 | 30.4 | 13.6 |

| 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 | *5240.00 | 105.2 PK | | | 1.52 V | 329 | 101.4 | 3.8 |
| 2 | *5240.00 | 94.5 AV | | | 1.52 V | 329 | 90.7 | 3.8 |
| 3 | 5402.00 | 54.6 PK | 74.0 | -19.4 | 1.52 V | 329 | 50.5 | 4.1 |
| 4 | 5402.00 | 43.6 AV | 54.0 | -10.4 | 1.52 V | 329 | 39.5 | 4.1 |
| 5 | #10480.00 | 48.9 PK | 74.0 | -25.1 | 1.91 V | 9 | 35.7 | 13.2 |
| 6 | #10480.00 | 36.3 AV | 54.0 | -17.7 | 1.91 V | 9 | 23.1 | 13.2 |
| 7 | 15720.00 | 56.0 PK | 74.0 | -18.0 | 2.23 V | 342 | 42.4 | 13.6 |
| 8 | 15720.00 | 44.4 AV | 54.0 | -9.6 | 2.23 V | 342 | 30.8 | 13.6 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5745.00 | 123.3 PK | | | 1.46 H | 360 | 118.9 | 4.4 |
| 2 | *5745.00 | 112.7 AV | | | 1.46 H | 360 | 108.3 | 4.4 |
| 3 | 11490.00 | 56.9 PK | 74.0 | -17.1 | 1.54 H | 129 | 43.4 | 13.5 |
| 4 | 11490.00 | 44.1 AV | 54.0 | -9.9 | 1.54 H | 129 | 30.6 | 13.5 |
| 5 | #17235.00 | 54.2 PK | 74.0 | -19.8 | 3.14 H | 306 | 36.9 | 17.3 |
| 6 | #17235.00 | 42.3 AV | 54.0 | -11.7 | 3.14 H | 306 | 25.0 | 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 | *5745.00 | 120.6 PK | | | 1.51 V | 332 | 116.2 | 4.4 |
| 2 | *5745.00 | 110.2 AV | | | 1.51 V | 332 | 105.8 | 4.4 |
| 3 | 11490.00 | 59.7 PK | 74.0 | -14.3 | 1.84 V | 7 | 46.2 | 13.5 |
| 4 | 11490.00 | 46.8 AV | 54.0 | -7.2 | 1.84 V | 7 | 33.3 | 13.5 |
| 5 | #17235.00 | 55.2 PK | 74.0 | -18.8 | 2.45 V | 355 | 37.9 | 17.3 |
| 6 | #17235.00 | 44.1 AV | 54.0 | -9.9 | 2.45 V | 355 | 26.8 | 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 157 | 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 | *5785.00 | 123.0 PK | | | 1.44 H | 360 | 118.6 | 4.4 |
| 2 | *5785.00 | 112.4 AV | | | 1.44 H | 360 | 108.0 | 4.4 |
| 3 | 11570.00 | 57.6 PK | 74.0 | -16.4 | 1.49 H | 129 | 44.1 | 13.5 |
| 4 | 11570.00 | 44.6 AV | 54.0 | -9.4 | 1.49 H | 129 | 31.1 | 13.5 |
| 5 | #17355.00 | 54.5 PK | 74.0 | -19.5 | 3.08 H | 296 | 36.5 | 18.0 |
| 6 | #17355.00 | 42.5 AV | 54.0 | -11.5 | 3.08 H | 296 | 24.5 | 18.0 |

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 | *5785.00 | 120.4 PK | | | 1.49 V | 331 | 116.0 | 4.4 |
| 2 | *5785.00 | 110.3 AV | | | 1.49 V | 331 | 105.9 | 4.4 |
| 3 | 11570.00 | 59.6 PK | 74.0 | -14.4 | 1.84 V | 15 | 46.1 | 13.5 |
| 4 | 11570.00 | 46.7 AV | 54.0 | -7.3 | 1.84 V | 15 | 33.2 | 13.5 |
| 5 | #17355.00 | 55.6 PK | 74.0 | -18.4 | 2.42 V | 353 | 37.6 | 18.0 |
| 6 | #17355.00 | 44.6 AV | 54.0 | -9.4 | 2.42 V | 353 | 26.6 | 18.0 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5825.00 | 122.2 PK | | | 1.50 H | 360 | 117.8 | 4.4 |
| 2 | *5825.00 | 111.6 AV | | | 1.50 H | 360 | 107.2 | 4.4 |
| 3 | 11650.00 | 56.8 PK | 74.0 | -17.2 | 1.51 H | 139 | 43.1 | 13.7 |
| 4 | 11650.00 | 43.9 AV | 54.0 | -10.1 | 1.51 H | 139 | 30.2 | 13.7 |
| 5 | #17475.00 | 54.2 PK | 74.0 | -19.8 | 3.10 H | 318 | 35.6 | 18.6 |
| 6 | #17475.00 | 42.4 AV | 54.0 | -11.6 | 3.10 H | 318 | 23.8 | 18.6 |
| 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 | *5825.00 | 119.0 PK | | | 1.46 V | 331 | 114.6 | 4.4 |
| 2 | *5825.00 | 109.3 AV | | | 1.46 V | 331 | 104.9 | 4.4 |
| 3 | 11650.00 | 60.3 PK | 74.0 | -13.7 | 1.87 V | 0 | 46.6 | 13.7 |
| 4 | 11650.00 | 47.2 AV | 54.0 | -6.8 | 1.87 V | 0 | 33.5 | 13.7 |
| 5 | #17475.00 | 55.4 PK | 74.0 | -18.6 | 2.42 V | 338 | 36.8 | 18.6 |
| 6 | #17475.00 | 44.3 AV | 54.0 | -9.7 | 2.42 V | 338 | 25.7 | 18.6 |

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.

802.11ac (VHT20)

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 57.1 PK | 74.0 | -16.9 | 1.48 H | 322 | 53.4 | 3.7 |
| 2 | 5150.00 | 44.6 AV | 54.0 | -9.4 | 1.48 H | 322 | 40.9 | 3.7 |
| 3 | *5180.00 | 105.4 PK | | | 1.48 H | 322 | 101.7 | 3.7 |
| 4 | *5180.00 | 96.4 AV | | | 1.48 H | 322 | 92.7 | 3.7 |
| 5 | #10360.00 | 45.8 PK | 74.0 | -28.2 | 1.56 H | 119 | 32.8 | 13.0 |
| 6 | #10360.00 | 33.8 AV | 54.0 | -20.2 | 1.56 H | 119 | 20.8 | 13.0 |
| 7 | 15540.00 | 56.4 PK | 74.0 | -17.6 | 3.14 H | 309 | 43.3 | 13.1 |
| 8 | 15540.00 | 44.1 AV | 54.0 | -9.9 | 3.14 H | 309 | 31.0 | 13.1 |

| 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 | 5150.00 | 54.3 PK | 74.0 | -19.7 | 1.46 V | 330 | 50.6 | 3.7 |
| 2 | 5150.00 | 42.2 AV | 54.0 | -11.8 | 1.46 V | 330 | 38.5 | 3.7 |
| 3 | *5180.00 | 101.6 PK | | | 1.46 V | 330 | 97.9 | 3.7 |
| 4 | *5180.00 | 92.2 AV | | | 1.46 V | 330 | 88.5 | 3.7 |
| 5 | #10360.00 | 48.8 PK | 74.0 | -25.2 | 1.93 V | 2 | 35.8 | 13.0 |
| 6 | #10360.00 | 36.2 AV | 54.0 | -17.8 | 1.93 V | 2 | 23.2 | 13.0 |
| 7 | 15540.00 | 56.2 PK | 74.0 | -17.8 | 2.20 V | 320 | 43.1 | 13.1 |
| 8 | 15540.00 | 44.4 AV | 54.0 | -9.6 | 2.20 V | 320 | 31.3 | 13.1 |

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 40 | DETECTOR FUNCTION | Peak (PK) |
| FREQUENCY RANGE | 1GHz ~ 40GHz | | Average (AV) |

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5150.00 | 56.8 PK | 74.0 | -17.2 | 1.52 H | 322 | 53.1 | 3.7 |
| 2 | 5150.00 | 45.6 AV | 54.0 | -8.4 | 1.52 H | 322 | 41.9 | 3.7 |
| 3 | *5200.00 | 105.3 PK | | | 1.52 H | 322 | 101.6 | 3.7 |
| 4 | *5200.00 | 96.1 AV | | | 1.52 H | 322 | 92.4 | 3.7 |
| 5 | 5363.00 | 58.8 PK | 74.0 | -15.2 | 1.52 H | 322 | 54.7 | 4.1 |
| 6 | 5363.00 | 47.4 AV | 54.0 | -6.6 | 1.52 H | 322 | 43.3 | 4.1 |
| 7 | #10400.00 | 46.3 PK | 74.0 | -27.7 | 1.59 H | 143 | 33.3 | 13.0 |
| 8 | #10400.00 | 34.3 AV | 54.0 | -19.7 | 1.59 H | 143 | 21.3 | 13.0 |
| 9 | 15600.00 | 56.4 PK | 74.0 | -17.6 | 3.11 H | 324 | 43.1 | 13.3 |
| 10 | 15600.00 | 44.4 AV | 54.0 | -9.6 | 3.11 H | 324 | 31.1 | 13.3 |

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 | 5150.00 | 53.9 PK | 74.0 | -20.1 | 1.46 V | 324 | 50.2 | 3.7 |
| 2 | 5150.00 | 42.2 AV | 54.0 | -11.8 | 1.46 V | 324 | 38.5 | 3.7 |
| 3 | *5200.00 | 101.6 PK | | | 1.46 V | 324 | 97.9 | 3.7 |
| 4 | *5200.00 | 92.5 AV | | | 1.46 V | 324 | 88.8 | 3.7 |
| 5 | 5363.00 | 55.2 PK | 74.0 | -18.8 | 1.46 V | 324 | 51.1 | 4.1 |
| 6 | 5363.00 | 45.1 AV | 54.0 | -8.9 | 1.46 V | 324 | 41.0 | 4.1 |
| 7 | #10400.00 | 48.8 PK | 74.0 | -25.2 | 1.94 V | 24 | 35.8 | 13.0 |
| 8 | #10400.00 | 36.3 AV | 54.0 | -17.7 | 1.94 V | 24 | 23.3 | 13.0 |
| 9 | 15600.00 | 56.7 PK | 74.0 | -17.3 | 2.23 V | 336 | 43.4 | 13.3 |
| 10 | 15600.00 | 44.6 AV | 54.0 | -9.4 | 2.23 V | 336 | 31.3 | 13.3 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5240.00 | 105.3 PK | | | 1.50 H | 322 | 101.5 | 3.8 |
| 2 | *5240.00 | 96.0 AV | | | 1.50 H | 322 | 92.2 | 3.8 |
| 3 | 5393.00 | 57.1 PK | 74.0 | -16.9 | 1.50 H | 322 | 53.0 | 4.1 |
| 4 | 5393.00 | 46.2 AV | 54.0 | -7.8 | 1.50 H | 322 | 42.1 | 4.1 |
| 5 | #10480.00 | 46.4 PK | 74.0 | -27.6 | 1.54 H | 132 | 33.2 | 13.2 |
| 6 | #10480.00 | 34.5 AV | 54.0 | -19.5 | 1.54 H | 132 | 21.3 | 13.2 |
| 7 | 15720.00 | 56.3 PK | 74.0 | -17.7 | 3.12 H | 302 | 42.7 | 13.6 |
| 8 | 15720.00 | 44.1 AV | 54.0 | -9.9 | 3.12 H | 302 | 30.5 | 13.6 |

| 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 | *5240.00 | 101.7 PK | | | 1.49 V | 344 | 97.9 | 3.8 |
| 2 | *5240.00 | 92.1 AV | | | 1.49 V | 344 | 88.3 | 3.8 |
| 3 | 5350.00 | 54.9 PK | 74.0 | -19.1 | 1.49 V | 344 | 50.8 | 4.1 |
| 4 | 5350.00 | 43.1 AV | 54.0 | -10.9 | 1.49 V | 344 | 39.0 | 4.1 |
| 5 | #10480.00 | 49.3 PK | 74.0 | -24.7 | 1.85 V | 8 | 36.1 | 13.2 |
| 6 | #10480.00 | 36.9 AV | 54.0 | -17.1 | 1.85 V | 8 | 23.7 | 13.2 |
| 7 | 15720.00 | 56.5 PK | 74.0 | -17.5 | 2.20 V | 341 | 42.9 | 13.6 |
| 8 | 15720.00 | 44.6 AV | 54.0 | -9.4 | 2.20 V | 341 | 31.0 | 13.6 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5745.00 | 121.8 PK | | | 1.93 H | 359 | 117.4 | 4.4 |
| 2 | *5745.00 | 112.1 AV | | | 1.93 H | 359 | 107.7 | 4.4 |
| 3 | 11490.00 | 56.3 PK | 74.0 | -17.7 | 1.56 H | 138 | 42.8 | 13.5 |
| 4 | 11490.00 | 43.8 AV | 54.0 | -10.2 | 1.56 H | 138 | 30.3 | 13.5 |
| 5 | #17235.00 | 53.8 PK | 74.0 | -20.2 | 3.14 H | 309 | 36.5 | 17.3 |
| 6 | #17235.00 | 41.9 AV | 54.0 | -12.1 | 3.14 H | 309 | 24.6 | 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 | *5745.00 | 118.1 PK | | | 1.46 V | 22 | 113.7 | 4.4 |
| 2 | *5745.00 | 108.9 AV | | | 1.46 V | 22 | 104.5 | 4.4 |
| 3 | 11490.00 | 59.6 PK | 74.0 | -14.4 | 1.80 V | 24 | 46.1 | 13.5 |
| 4 | 11490.00 | 46.9 AV | 54.0 | -7.1 | 1.80 V | 24 | 33.4 | 13.5 |
| 5 | #17235.00 | 54.9 PK | 74.0 | -19.1 | 2.45 V | 360 | 37.6 | 17.3 |
| 6 | #17235.00 | 44.2 AV | 54.0 | -9.8 | 2.45 V | 360 | 26.9 | 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 157 | 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 | *5785.00 | 121.3 PK | | | 1.92 H | 360 | 116.9 | 4.4 |
| 2 | *5785.00 | 111.3 AV | | | 1.92 H | 360 | 106.9 | 4.4 |
| 3 | 11570.00 | 56.5 PK | 74.0 | -17.5 | 1.55 H | 119 | 43.0 | 13.5 |
| 4 | 11570.00 | 43.9 AV | 54.0 | -10.1 | 1.55 H | 119 | 30.4 | 13.5 |
| 5 | #17355.00 | 53.9 PK | 74.0 | -20.1 | 3.11 H | 294 | 35.9 | 18.0 |
| 6 | #17355.00 | 42.0 AV | 54.0 | -12.0 | 3.11 H | 294 | 24.0 | 18.0 |
| 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 | *5785.00 | 118.0 PK | | | 1.47 V | 20 | 113.6 | 4.4 |
| 2 | *5785.00 | 108.6 AV | | | 1.47 V | 20 | 104.2 | 4.4 |
| 3 | 11570.00 | 59.4 PK | 74.0 | -14.6 | 1.81 V | 15 | 45.9 | 13.5 |
| 4 | 11570.00 | 46.4 AV | 54.0 | -7.6 | 1.81 V | 15 | 32.9 | 13.5 |
| 5 | #17355.00 | 55.4 PK | 74.0 | -18.6 | 2.44 V | 352 | 37.4 | 18.0 |
| 6 | #17355.00 | 44.5 AV | 54.0 | -9.5 | 2.44 V | 352 | 26.5 | 18.0 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5825.00 | 120.6 PK | | | 1.96 H | 359 | 116.2 | 4.4 |
| 2 | *5825.00 | 110.9 AV | | | 1.96 H | 359 | 106.5 | 4.4 |
| 3 | 11650.00 | 57.0 PK | 74.0 | -17.0 | 1.51 H | 131 | 43.3 | 13.7 |
| 4 | 11650.00 | 44.3 AV | 54.0 | -9.7 | 1.51 H | 131 | 30.6 | 13.7 |
| 5 | #17475.00 | 53.9 PK | 74.0 | -20.1 | 3.14 H | 319 | 35.3 | 18.6 |
| 6 | #17475.00 | 42.1 AV | 54.0 | -11.9 | 3.14 H | 319 | 23.5 | 18.6 |
| 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 | *5825.00 | 118.3 PK | | | 1.46 V | 19 | 113.9 | 4.4 |
| 2 | *5825.00 | 108.3 AV | | | 1.46 V | 19 | 103.9 | 4.4 |
| 3 | 11650.00 | 59.9 PK | 74.0 | -14.1 | 1.84 V | 9 | 46.2 | 13.7 |
| 4 | 11650.00 | 47.0 AV | 54.0 | -7.0 | 1.84 V | 9 | 33.3 | 13.7 |
| 5 | #17475.00 | 55.7 PK | 74.0 | -18.3 | 2.44 V | 346 | 37.1 | 18.6 |
| 6 | #17475.00 | 44.6 AV | 54.0 | -9.4 | 2.44 V | 346 | 26.0 | 18.6 |

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.

802.11ac (VHT40)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5150.00 | 56.5 PK | 74.0 | -17.5 | 1.53 H | 9 | 52.8 | 3.7 |
| 2 | 5150.00 | 44.5 AV | 54.0 | -9.5 | 1.53 H | 9 | 40.8 | 3.7 |
| 3 | *5190.00 | 102.1 PK | | | 1.53 H | 9 | 98.4 | 3.7 |
| 4 | *5190.00 | 94.3 AV | | | 1.53 H | 9 | 90.6 | 3.7 |
| 5 | 5362.00 | 57.9 PK | 74.0 | -16.1 | 1.53 H | 9 | 53.8 | 4.1 |
| 6 | 5362.00 | 47.7 AV | 54.0 | -6.3 | 1.53 H | 9 | 43.6 | 4.1 |
| 7 | #10380.00 | 45.6 PK | 74.0 | -28.4 | 1.60 H | 130 | 32.5 | 13.1 |
| 8 | #10380.00 | 33.9 AV | 54.0 | -20.1 | 1.60 H | 130 | 20.8 | 13.1 |
| 9 | 15570.00 | 55.9 PK | 74.0 | -18.1 | 3.09 H | 309 | 42.6 | 13.3 |
| 10 | 15570.00 | 43.8 AV | 54.0 | -10.2 | 3.09 H | 309 | 30.5 | 13.3 |

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 | 5150.00 | 55.0 PK | 74.0 | -19.0 | 1.50 V | 336 | 51.3 | 3.7 |
| 2 | 5150.00 | 43.2 AV | 54.0 | -10.8 | 1.50 V | 336 | 39.5 | 3.7 |
| 3 | *5190.00 | 99.6 PK | | | 1.50 V | 336 | 95.9 | 3.7 |
| 4 | *5190.00 | 90.3 AV | | | 1.50 V | 336 | 86.6 | 3.7 |
| 5 | 5350.00 | 54.9 PK | 74.0 | -19.1 | 1.50 V | 336 | 50.8 | 4.1 |
| 6 | 5350.00 | 45.1 AV | 54.0 | -8.9 | 1.50 V | 336 | 41.0 | 4.1 |
| 7 | #10380.00 | 48.8 PK | 74.0 | -25.2 | 1.90 V | 4 | 35.7 | 13.1 |
| 8 | #10380.00 | 36.0 AV | 54.0 | -18.0 | 1.90 V | 4 | 22.9 | 13.1 |
| 9 | 15570.00 | 57.0 PK | 74.0 | -17.0 | 2.21 V | 312 | 43.7 | 13.3 |
| 10 | 15570.00 | 44.8 AV | 54.0 | -9.2 | 2.21 V | 312 | 31.5 | 13.3 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5230.00 | 101.9 PK | | | 1.51 H | 11 | 98.1 | 3.8 |
| 2 | *5230.00 | 94.2 AV | | | 1.51 H | 11 | 90.4 | 3.8 |
| 3 | 5373.00 | 66.1 PK | 74.0 | -7.9 | 1.51 H | 11 | 62.0 | 4.1 |
| 4 | 5373.00 | 50.1 AV | 54.0 | -3.9 | 1.51 H | 11 | 46.0 | 4.1 |
| 5 | #10460.00 | 46.4 PK | 74.0 | -27.6 | 1.58 H | 130 | 33.3 | 13.1 |
| 6 | #10460.00 | 34.2 AV | 54.0 | -19.8 | 1.58 H | 130 | 21.1 | 13.1 |
| 7 | 15690.00 | 56.1 PK | 74.0 | -17.9 | 3.04 H | 315 | 42.3 | 13.8 |
| 8 | 15690.00 | 43.8 AV | 54.0 | -10.2 | 3.04 H | 315 | 30.0 | 13.8 |

| 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 | *5230.00 | 99.4 PK | | | 1.50 V | 342 | 95.6 | 3.8 |
| 2 | *5230.00 | 90.1 AV | | | 1.50 V | 342 | 86.3 | 3.8 |
| 3 | 5350.00 | 54.7 PK | 74.0 | -19.3 | 1.50 V | 342 | 50.6 | 4.1 |
| 4 | 5350.00 | 43.1 AV | 54.0 | -10.9 | 1.50 V | 342 | 39.0 | 4.1 |
| 5 | #10460.00 | 49.1 PK | 74.0 | -24.9 | 1.91 V | 13 | 36.0 | 13.1 |
| 6 | #10460.00 | 36.9 AV | 54.0 | -17.1 | 1.91 V | 13 | 23.8 | 13.1 |
| 7 | 15690.00 | 57.1 PK | 74.0 | -16.9 | 2.18 V | 326 | 43.3 | 13.8 |
| 8 | 15690.00 | 44.9 AV | 54.0 | -9.1 | 2.18 V | 326 | 31.1 | 13.8 |

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 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 | *5755.00 | 118.7 PK | | | 1.88 H | 360 | 114.3 | 4.4 |
| 2 | *5755.00 | 108.9 AV | | | 1.88 H | 360 | 104.5 | 4.4 |
| 3 | 11510.00 | 56.4 PK | 74.0 | -17.6 | 1.60 H | 135 | 42.8 | 13.6 |
| 4 | 11510.00 | 43.9 AV | 54.0 | -10.1 | 1.60 H | 135 | 30.3 | 13.6 |
| 5 | #17265.00 | 53.8 PK | 74.0 | -20.2 | 3.09 H | 302 | 36.2 | 17.6 |
| 6 | #17265.00 | 42.0 AV | 54.0 | -12.0 | 3.09 H | 302 | 24.4 | 17.6 |
| 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 | *5755.00 | 115.4 PK | | | 2.32 V | 23 | 111.0 | 4.4 |
| 2 | *5755.00 | 105.4 AV | | | 2.32 V | 23 | 101.0 | 4.4 |
| 3 | 11510.00 | 59.2 PK | 74.0 | -14.8 | 1.84 V | 19 | 45.6 | 13.6 |
| 4 | 11510.00 | 46.6 AV | 54.0 | -7.4 | 1.84 V | 19 | 33.0 | 13.6 |
| 5 | #17265.00 | 55.5 PK | 74.0 | -18.5 | 2.44 V | 351 | 37.9 | 17.6 |
| 6 | #17265.00 | 44.5 AV | 54.0 | -9.5 | 2.44 V | 351 | 26.9 | 17.6 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5795.00 | 118.7 PK | | | 1.88 H | 359 | 114.3 | 4.4 |
| 2 | *5795.00 | 108.2 AV | | | 1.88 H | 359 | 103.8 | 4.4 |
| 3 | 11590.00 | 56.7 PK | 74.0 | -17.3 | 1.57 H | 122 | 43.2 | 13.5 |
| 4 | 11590.00 | 44.0 AV | 54.0 | -10.0 | 1.57 H | 122 | 30.5 | 13.5 |
| 5 | #17385.00 | 54.5 PK | 74.0 | -19.5 | 3.18 H | 316 | 36.2 | 18.3 |
| 6 | #17385.00 | 42.7 AV | 54.0 | -11.3 | 3.18 H | 316 | 24.4 | 18.3 |
| 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 | *5795.00 | 114.6 PK | | | 2.32 V | 19 | 110.2 | 4.4 |
| 2 | *5795.00 | 105.9 AV | | | 2.32 V | 19 | 101.5 | 4.4 |
| 3 | 11590.00 | 59.8 PK | 74.0 | -14.2 | 1.83 V | 27 | 46.3 | 13.5 |
| 4 | 11590.00 | 47.0 AV | 54.0 | -7.0 | 1.83 V | 27 | 33.5 | 13.5 |
| 5 | #17385.00 | 55.2 PK | 74.0 | -18.8 | 2.41 V | 338 | 36.9 | 18.3 |
| 6 | #17385.00 | 44.4 AV | 54.0 | -9.6 | 2.41 V | 338 | 26.1 | 18.3 |

REMARKS:

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

802.11ac (VHT80)

| | | | |
|------------------------|---------------|--------------------------|--------------|
| CHANNEL | TX Channel 42 | 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 | 57.2 PK | 74.0 | -16.8 | 1.52 H | 321 | 53.5 | 3.7 |
| 2 | 5150.00 | 44.7 AV | 54.0 | -9.3 | 1.52 H | 321 | 41.0 | 3.7 |
| 3 | *5210.00 | 100.2 PK | | | 1.52 H | 321 | 96.5 | 3.7 |
| 4 | *5210.00 | 93.3 AV | | | 1.52 H | 321 | 89.6 | 3.7 |
| 5 | 5350.00 | 57.7 PK | 74.0 | -16.3 | 1.52 H | 321 | 53.6 | 4.1 |
| 6 | 5350.00 | 46.8 AV | 54.0 | -7.2 | 1.52 H | 321 | 42.7 | 4.1 |
| 7 | #10420.00 | 46.5 PK | 74.0 | -27.5 | 1.54 H | 127 | 33.4 | 13.1 |
| 8 | #10420.00 | 34.5 AV | 54.0 | -19.5 | 1.54 H | 127 | 21.4 | 13.1 |
| 9 | 15630.00 | 56.1 PK | 74.0 | -17.9 | 3.05 H | 310 | 42.5 | 13.6 |
| 10 | 15630.00 | 44.0 AV | 54.0 | -10.0 | 3.05 H | 310 | 30.4 | 13.6 |

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 | 5150.00 | 55.2 PK | 74.0 | -18.8 | 1.52 V | 336 | 51.5 | 3.7 |
| 2 | 5150.00 | 43.0 AV | 54.0 | -11.0 | 1.52 V | 336 | 39.3 | 3.7 |
| 3 | *5210.00 | 98.7 PK | | | 1.52 V | 336 | 95.0 | 3.7 |
| 4 | *5210.00 | 90.0 AV | | | 1.52 V | 336 | 86.3 | 3.7 |
| 5 | 5350.00 | 54.6 PK | 74.0 | -19.4 | 1.52 V | 336 | 50.5 | 4.1 |
| 6 | 5350.00 | 44.9 AV | 54.0 | -9.1 | 1.52 V | 336 | 40.8 | 4.1 |
| 7 | #10420.00 | 48.8 PK | 74.0 | -25.2 | 1.97 V | 14 | 35.7 | 13.1 |
| 8 | #10420.00 | 36.2 AV | 54.0 | -17.8 | 1.97 V | 14 | 23.1 | 13.1 |
| 9 | 15630.00 | 57.0 PK | 74.0 | -17.0 | 2.25 V | 322 | 43.4 | 13.6 |
| 10 | 15630.00 | 45.0 AV | 54.0 | -9.0 | 2.25 V | 322 | 31.4 | 13.6 |

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) |
| 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 | *5775.00 | 111.1 PK | | | 1.51 H | 318 | 106.7 | 4.4 |
| 2 | *5775.00 | 101.0 AV | | | 1.51 H | 318 | 96.6 | 4.4 |
| 3 | 11550.00 | 56.8 PK | 74.0 | -17.2 | 1.53 H | 121 | 43.3 | 13.5 |
| 4 | 11550.00 | 43.8 AV | 54.0 | -10.2 | 1.53 H | 121 | 30.3 | 13.5 |
| 5 | #17325.00 | 54.1 PK | 74.0 | -19.9 | 3.11 H | 319 | 36.3 | 17.8 |
| 6 | #17325.00 | 42.2 AV | 54.0 | -11.8 | 3.11 H | 319 | 24.4 | 17.8 |
| 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 | *5775.00 | 109.8 PK | | | 2.45 V | 20 | 105.4 | 4.4 |
| 2 | *5775.00 | 99.7 AV | | | 2.45 V | 20 | 95.3 | 4.4 |
| 3 | 11550.00 | 59.8 PK | 74.0 | -14.2 | 1.88 V | 31 | 46.3 | 13.5 |
| 4 | 11550.00 | 47.1 AV | 54.0 | -6.9 | 1.88 V | 31 | 33.6 | 13.5 |
| 5 | #17325.00 | 55.9 PK | 74.0 | -18.1 | 2.45 V | 359 | 38.1 | 17.8 |
| 6 | #17325.00 | 44.7 AV | 54.0 | -9.3 | 2.45 V | 359 | 26.9 | 17.8 |

REMARKS:

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

Below 1GHz Data:
802.11a

| | | | |
|------------------------|----------------|--------------------------|-----------------|
| CHANNEL | TX Channel 149 | 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 | 94.17 | 39.9 QP | 43.5 | -3.6 | 1.00 H | 123 | 53.5 | -13.6 |
| 2 | 219.55 | 33.6 QP | 46.0 | -12.4 | 1.50 H | 88 | 44.8 | -11.2 |
| 3 | 380.71 | 39.8 QP | 46.0 | -6.2 | 2.00 H | 321 | 45.6 | -5.8 |
| 4 | 470.74 | 42.8 QP | 46.0 | -3.2 | 1.50 H | 214 | 46.4 | -3.6 |
| 5 | 699.99 | 30.1 QP | 46.0 | -15.9 | 1.00 H | 311 | 29.6 | 0.5 |
| 6 | 840.21 | 31.2 QP | 46.0 | -14.8 | 2.50 H | 238 | 28.9 | 2.3 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 53.33 | 31.2 QP | 40.0 | -8.8 | 1.50 V | 214 | 39.4 | -8.2 |
| 2 | 113.18 | 25.6 QP | 43.5 | -17.9 | 1.50 V | 324 | 36.4 | -10.8 |
| 3 | 190.71 | 29.0 QP | 43.5 | -14.5 | 2.00 V | 178 | 39.9 | -10.9 |
| 4 | 373.20 | 42.8 QP | 46.0 | -3.2 | 1.50 V | 235 | 48.7 | -5.9 |
| 5 | 470.29 | 37.2 QP | 46.0 | -8.8 | 2.50 V | 217 | 40.8 | -3.6 |
| 6 | 896.21 | 35.6 QP | 46.0 | -10.4 | 2.50 V | 321 | 32.7 | 2.9 |

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

4.1.8 Test Results (Mode 2)

Above 1GHz Data:

802.11a

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 56.9 PK | 74.0 | -17.1 | 1.40 H | 12 | 53.2 | 3.7 |
| 2 | 5150.00 | 44.6 AV | 54.0 | -9.4 | 1.40 H | 12 | 40.9 | 3.7 |
| 3 | *5180.00 | 110.3 PK | | | 1.40 H | 12 | 106.6 | 3.7 |
| 4 | *5180.00 | 106.8 AV | | | 1.40 H | 12 | 103.1 | 3.7 |
| 5 | #10360.00 | 46.0 PK | 74.0 | -28.0 | 2.31 H | 10 | 33.0 | 13.0 |
| 6 | #10360.00 | 36.3 AV | 54.0 | -17.7 | 2.31 H | 10 | 23.3 | 13.0 |
| 7 | 15540.00 | 54.4 PK | 74.0 | -19.6 | 3.94 H | 301 | 41.3 | 13.1 |
| 8 | 15540.00 | 43.6 AV | 54.0 | -10.4 | 3.94 H | 301 | 30.5 | 13.1 |
| 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 | 5150.00 | 54.6 PK | 74.0 | -19.4 | 1.00 V | 337 | 50.9 | 3.7 |
| 2 | 5150.00 | 42.7 AV | 54.0 | -11.3 | 1.00 V | 337 | 39.0 | 3.7 |
| 3 | *5180.00 | 107.8 PK | | | 1.00 V | 337 | 104.1 | 3.7 |
| 4 | *5180.00 | 96.9 AV | | | 1.00 V | 337 | 93.2 | 3.7 |
| 5 | #10360.00 | 49.3 PK | 74.0 | -24.7 | 1.51 V | 351 | 36.3 | 13.0 |
| 6 | #10360.00 | 39.4 AV | 54.0 | -14.6 | 1.51 V | 351 | 26.4 | 13.0 |
| 7 | 15540.00 | 55.8 PK | 74.0 | -18.2 | 2.45 V | 328 | 42.7 | 13.1 |
| 8 | 15540.00 | 45.2 AV | 54.0 | -8.8 | 2.45 V | 328 | 32.1 | 13.1 |

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 40 | 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 | 57.4 PK | 74.0 | -16.6 | 1.49 H | 350 | 53.7 | 3.7 |
| 2 | 5150.00 | 45.0 AV | 54.0 | -9.0 | 1.49 H | 350 | 41.3 | 3.7 |
| 3 | *5200.00 | 110.4 PK | | | 1.49 H | 350 | 106.7 | 3.7 |
| 4 | *5200.00 | 107.0 AV | | | 1.49 H | 350 | 103.3 | 3.7 |
| 5 | 5350.00 | 55.6 PK | 74.0 | -18.4 | 1.49 H | 350 | 51.5 | 4.1 |
| 6 | 5350.00 | 43.8 AV | 54.0 | -10.2 | 1.49 H | 350 | 39.7 | 4.1 |
| 7 | #10400.00 | 46.3 PK | 74.0 | -27.7 | 2.36 H | 8 | 33.3 | 13.0 |
| 8 | #10400.00 | 36.6 AV | 54.0 | -17.4 | 2.36 H | 8 | 23.6 | 13.0 |
| 9 | 15600.00 | 53.9 PK | 74.0 | -20.1 | 3.88 H | 301 | 40.6 | 13.3 |
| 10 | 15600.00 | 43.2 AV | 54.0 | -10.8 | 3.88 H | 301 | 29.9 | 13.3 |

| 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 | 5150.00 | 54.2 PK | 74.0 | -19.8 | 1.00 V | 333 | 50.5 | 3.7 |
| 2 | 5150.00 | 42.2 AV | 54.0 | -11.8 | 1.00 V | 333 | 38.5 | 3.7 |
| 3 | *5200.00 | 107.3 PK | | | 1.00 V | 333 | 103.6 | 3.7 |
| 4 | *5200.00 | 96.4 AV | | | 1.00 V | 333 | 92.7 | 3.7 |
| 5 | 5350.00 | 54.4 PK | 74.0 | -19.6 | 1.00 V | 333 | 50.3 | 4.1 |
| 6 | 5350.00 | 41.9 AV | 54.0 | -12.1 | 1.00 V | 333 | 37.8 | 4.1 |
| 7 | #10400.00 | 49.5 PK | 74.0 | -24.5 | 1.52 V | 346 | 36.5 | 13.0 |
| 8 | #10400.00 | 39.4 AV | 54.0 | -14.6 | 1.52 V | 346 | 26.4 | 13.0 |
| 9 | 15600.00 | 55.9 PK | 74.0 | -18.1 | 2.39 V | 339 | 42.6 | 13.3 |
| 10 | 15600.00 | 45.1 AV | 54.0 | -8.9 | 2.39 V | 339 | 31.8 | 13.3 |

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5240.00 | 110.0 PK | | | 1.54 H | 320 | 106.2 | 3.8 |
| 2 | *5240.00 | 106.4 AV | | | 1.54 H | 320 | 102.6 | 3.8 |
| 3 | 5402.00 | 57.1 PK | 74.0 | -16.9 | 1.54 H | 320 | 53.0 | 4.1 |
| 4 | 5402.00 | 46.8 AV | 54.0 | -7.2 | 1.54 H | 320 | 42.7 | 4.1 |
| 5 | #10480.00 | 45.8 PK | 74.0 | -28.2 | 2.42 H | 14 | 32.6 | 13.2 |
| 6 | #10480.00 | 36.3 AV | 54.0 | -17.7 | 2.42 H | 14 | 23.1 | 13.2 |
| 7 | 15720.00 | 54.1 PK | 74.0 | -19.9 | 3.87 H | 287 | 40.5 | 13.6 |
| 8 | 15720.00 | 43.2 AV | 54.0 | -10.8 | 3.87 H | 287 | 29.6 | 13.6 |

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 | *5240.00 | 108.3 PK | | | 1.01 V | 321 | 104.5 | 3.8 |
| 2 | *5240.00 | 97.2 AV | | | 1.01 V | 321 | 93.4 | 3.8 |
| 3 | 5350.00 | 54.6 PK | 74.0 | -19.4 | 1.01 V | 321 | 50.5 | 4.1 |
| 4 | 5350.00 | 43.3 AV | 54.0 | -10.7 | 1.01 V | 321 | 39.2 | 4.1 |
| 5 | #10480.00 | 49.6 PK | 74.0 | -24.4 | 1.57 V | 352 | 36.4 | 13.2 |
| 6 | #10480.00 | 39.3 AV | 54.0 | -14.7 | 1.57 V | 352 | 26.1 | 13.2 |
| 7 | 15720.00 | 55.7 PK | 74.0 | -18.3 | 2.38 V | 335 | 42.1 | 13.6 |
| 8 | 15720.00 | 44.8 AV | 54.0 | -9.2 | 2.38 V | 335 | 31.2 | 13.6 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5745.00 | 121.5 PK | | | 1.53 H | 314 | 117.1 | 4.4 |
| 2 | *5745.00 | 118.0 AV | | | 1.53 H | 314 | 113.6 | 4.4 |
| 3 | 11490.00 | 57.7 PK | 74.0 | -16.3 | 1.47 H | 128 | 44.2 | 13.5 |
| 4 | 11490.00 | 44.6 AV | 54.0 | -9.4 | 1.47 H | 128 | 31.1 | 13.5 |
| 5 | #17235.00 | 54.6 PK | 74.0 | -19.4 | 3.06 H | 306 | 37.3 | 17.3 |
| 6 | #17235.00 | 42.4 AV | 54.0 | -11.6 | 3.06 H | 306 | 25.1 | 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 | *5745.00 | 118.6 PK | | | 1.49 V | 331 | 114.2 | 4.4 |
| 2 | *5745.00 | 107.7 AV | | | 1.49 V | 331 | 103.3 | 4.4 |
| 3 | 11490.00 | 59.2 PK | 74.0 | -14.8 | 1.88 V | 4 | 45.7 | 13.5 |
| 4 | 11490.00 | 46.5 AV | 54.0 | -7.5 | 1.88 V | 4 | 33.0 | 13.5 |
| 5 | #17235.00 | 55.4 PK | 74.0 | -18.6 | 2.44 V | 339 | 38.1 | 17.3 |
| 6 | #17235.00 | 44.5 AV | 54.0 | -9.5 | 2.44 V | 339 | 27.2 | 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 157 | 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 | *5785.00 | 121.2 PK | | | 1.57 H | 326 | 116.8 | 4.4 |
| 2 | *5785.00 | 118.1 AV | | | 1.57 H | 326 | 113.7 | 4.4 |
| 3 | 11570.00 | 57.5 PK | 74.0 | -16.5 | 1.50 H | 125 | 44.0 | 13.5 |
| 4 | 11570.00 | 44.7 AV | 54.0 | -9.3 | 1.50 H | 125 | 31.2 | 13.5 |
| 5 | #17355.00 | 54.9 PK | 74.0 | -19.1 | 3.11 H | 294 | 36.9 | 18.0 |
| 6 | #17355.00 | 42.7 AV | 54.0 | -11.3 | 3.11 H | 294 | 24.7 | 18.0 |
| 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 | *5785.00 | 118.7 PK | | | 1.46 V | 344 | 114.3 | 4.4 |
| 2 | *5785.00 | 107.9 AV | | | 1.46 V | 344 | 103.5 | 4.4 |
| 3 | 11570.00 | 60.1 PK | 74.0 | -13.9 | 1.82 V | 16 | 46.6 | 13.5 |
| 4 | 11570.00 | 47.0 AV | 54.0 | -7.0 | 1.82 V | 16 | 33.5 | 13.5 |
| 5 | #17355.00 | 55.9 PK | 74.0 | -18.1 | 2.44 V | 344 | 37.9 | 18.0 |
| 6 | #17355.00 | 44.9 AV | 54.0 | -9.1 | 2.44 V | 344 | 26.9 | 18.0 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5825.00 | 121.1 PK | | | 1.58 H | 316 | 116.7 | 4.4 |
| 2 | *5825.00 | 118.1 AV | | | 1.58 H | 316 | 113.7 | 4.4 |
| 3 | 11650.00 | 58.4 PK | 74.0 | -15.6 | 1.55 H | 128 | 44.7 | 13.7 |
| 4 | 11650.00 | 45.1 AV | 54.0 | -8.9 | 1.55 H | 128 | 31.4 | 13.7 |
| 5 | #17475.00 | 55.0 PK | 74.0 | -19.0 | 3.06 H | 293 | 36.4 | 18.6 |
| 6 | #17475.00 | 42.8 AV | 54.0 | -11.2 | 3.06 H | 293 | 24.2 | 18.6 |
| 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 | *5825.00 | 118.5 PK | | | 1.52 V | 318 | 114.1 | 4.4 |
| 2 | *5825.00 | 107.7 AV | | | 1.52 V | 318 | 103.3 | 4.4 |
| 3 | 11650.00 | 58.9 PK | 74.0 | -15.1 | 1.86 V | 7 | 45.2 | 13.7 |
| 4 | 11650.00 | 46.2 AV | 54.0 | -7.8 | 1.86 V | 7 | 32.5 | 13.7 |
| 5 | #17475.00 | 55.4 PK | 74.0 | -18.6 | 2.41 V | 340 | 36.8 | 18.6 |
| 6 | #17475.00 | 44.1 AV | 54.0 | -9.9 | 2.41 V | 340 | 25.5 | 18.6 |

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.

802.11ac (VHT20)

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5150.00 | 57.2 PK | 74.0 | -16.8 | 1.49 H | 360 | 53.5 | 3.7 |
| 2 | 5150.00 | 45.0 AV | 54.0 | -9.0 | 1.49 H | 360 | 41.3 | 3.7 |
| 3 | *5180.00 | 107.4 PK | | | 1.49 H | 360 | 103.7 | 3.7 |
| 4 | *5180.00 | 98.6 AV | | | 1.49 H | 360 | 94.9 | 3.7 |
| 5 | #10360.00 | 46.3 PK | 74.0 | -27.7 | 2.35 H | 11 | 33.3 | 13.0 |
| 6 | #10360.00 | 36.7 AV | 54.0 | -17.3 | 2.35 H | 11 | 23.7 | 13.0 |
| 7 | 15540.00 | 54.4 PK | 74.0 | -19.6 | 3.94 H | 289 | 41.3 | 13.1 |
| 8 | 15540.00 | 43.5 AV | 54.0 | -10.5 | 3.94 H | 289 | 30.4 | 13.1 |

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 | 5150.00 | 54.4 PK | 74.0 | -19.6 | 1.05 V | 313 | 50.7 | 3.7 |
| 2 | 5150.00 | 42.5 AV | 54.0 | -11.5 | 1.05 V | 313 | 38.8 | 3.7 |
| 3 | *5180.00 | 103.4 PK | | | 1.05 V | 313 | 99.7 | 3.7 |
| 4 | *5180.00 | 94.1 AV | | | 1.05 V | 313 | 90.4 | 3.7 |
| 5 | #10360.00 | 49.0 PK | 74.0 | -25.0 | 1.53 V | 337 | 36.0 | 13.0 |
| 6 | #10360.00 | 39.2 AV | 54.0 | -14.8 | 1.53 V | 337 | 26.2 | 13.0 |
| 7 | 15540.00 | 55.7 PK | 74.0 | -18.3 | 2.40 V | 335 | 42.6 | 13.1 |
| 8 | 15540.00 | 45.0 AV | 54.0 | -9.0 | 2.40 V | 335 | 31.9 | 13.1 |

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 40 | DETECTOR FUNCTION | Peak (PK) |
| FREQUENCY RANGE | 1GHz ~ 40GHz | | Average (AV) |

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 56.8 PK | 74.0 | -17.2 | 1.46 H | 360 | 53.1 | 3.7 |
| 2 | 5150.00 | 44.2 AV | 54.0 | -9.8 | 1.46 H | 360 | 40.5 | 3.7 |
| 3 | *5200.00 | 107.9 PK | | | 1.46 H | 360 | 104.2 | 3.7 |
| 4 | *5200.00 | 98.9 AV | | | 1.46 H | 360 | 95.2 | 3.7 |
| 5 | 5362.00 | 57.5 PK | 74.0 | -16.5 | 1.46 H | 360 | 53.4 | 4.1 |
| 6 | 5362.00 | 47.1 AV | 54.0 | -6.9 | 1.46 H | 360 | 43.0 | 4.1 |
| 7 | #10400.00 | 46.1 PK | 74.0 | -27.9 | 2.33 H | 11 | 33.1 | 13.0 |
| 8 | #10400.00 | 36.6 AV | 54.0 | -17.4 | 2.33 H | 11 | 23.6 | 13.0 |
| 9 | 15600.00 | 54.6 PK | 74.0 | -19.4 | 3.94 H | 304 | 41.3 | 13.3 |
| 10 | 15600.00 | 43.7 AV | 54.0 | -10.3 | 3.94 H | 304 | 30.4 | 13.3 |

| 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 | 5150.00 | 54.4 PK | 74.0 | -19.6 | 1.04 V | 326 | 50.7 | 3.7 |
| 2 | 5150.00 | 42.4 AV | 54.0 | -11.6 | 1.04 V | 326 | 38.7 | 3.7 |
| 3 | *5200.00 | 103.7 PK | | | 1.04 V | 326 | 100.0 | 3.7 |
| 4 | *5200.00 | 94.5 AV | | | 1.04 V | 326 | 90.8 | 3.7 |
| 5 | 5362.00 | 55.5 PK | 74.0 | -18.5 | 1.04 V | 326 | 51.4 | 4.1 |
| 6 | 5362.00 | 45.6 AV | 54.0 | -8.4 | 1.04 V | 326 | 41.5 | 4.1 |
| 7 | #10400.00 | 49.4 PK | 74.0 | -24.6 | 1.47 V | 325 | 36.4 | 13.0 |
| 8 | #10400.00 | 39.6 AV | 54.0 | -14.4 | 1.47 V | 325 | 26.6 | 13.0 |
| 9 | 15600.00 | 55.6 PK | 74.0 | -18.4 | 2.40 V | 347 | 42.3 | 13.3 |
| 10 | 15600.00 | 45.0 AV | 54.0 | -9.0 | 2.40 V | 347 | 31.7 | 13.3 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5240.00 | 107.6 PK | | | 1.46 H | 360 | 103.8 | 3.8 |
| 2 | *5240.00 | 98.7 AV | | | 1.46 H | 360 | 94.9 | 3.8 |
| 3 | 5393.00 | 57.5 PK | 74.0 | -16.5 | 1.46 H | 360 | 53.4 | 4.1 |
| 4 | 5393.00 | 46.8 AV | 54.0 | -7.2 | 1.46 H | 360 | 42.7 | 4.1 |
| 5 | #10480.00 | 45.7 PK | 74.0 | -28.3 | 2.33 H | 12 | 32.5 | 13.2 |
| 6 | #10480.00 | 36.0 AV | 54.0 | -18.0 | 2.33 H | 12 | 22.8 | 13.2 |
| 7 | 15720.00 | 54.7 PK | 74.0 | -19.3 | 3.95 H | 285 | 41.1 | 13.6 |
| 8 | 15720.00 | 44.0 AV | 54.0 | -10.0 | 3.95 H | 285 | 30.4 | 13.6 |
| 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 | *5240.00 | 103.2 PK | | | 1.06 V | 305 | 99.4 | 3.8 |
| 2 | *5240.00 | 94.1 AV | | | 1.06 V | 305 | 90.3 | 3.8 |
| 3 | 5350.00 | 54.9 PK | 74.0 | -19.1 | 1.06 V | 305 | 50.8 | 4.1 |
| 4 | 5350.00 | 42.8 AV | 54.0 | -11.2 | 1.06 V | 305 | 38.7 | 4.1 |
| 5 | #10480.00 | 48.9 PK | 74.0 | -25.1 | 1.55 V | 348 | 35.7 | 13.2 |
| 6 | #10480.00 | 39.1 AV | 54.0 | -14.9 | 1.55 V | 348 | 25.9 | 13.2 |
| 7 | 15720.00 | 56.2 PK | 74.0 | -17.8 | 2.39 V | 346 | 42.6 | 13.6 |
| 8 | 15720.00 | 45.3 AV | 54.0 | -8.7 | 2.39 V | 346 | 31.7 | 13.6 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5745.00 | 118.2 PK | | | 1.55 H | 357 | 113.8 | 4.4 |
| 2 | *5745.00 | 108.2 AV | | | 1.55 H | 357 | 103.8 | 4.4 |
| 3 | 11490.00 | 55.7 PK | 74.0 | -18.3 | 1.54 H | 126 | 42.2 | 13.5 |
| 4 | 11490.00 | 43.5 AV | 54.0 | -10.5 | 1.54 H | 126 | 30.0 | 13.5 |
| 5 | #17235.00 | 53.4 PK | 74.0 | -20.6 | 3.18 H | 297 | 36.1 | 17.3 |
| 6 | #17235.00 | 41.5 AV | 54.0 | -12.5 | 3.18 H | 297 | 24.2 | 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 | *5745.00 | 115.5 PK | | | 1.53 V | 356 | 111.1 | 4.4 |
| 2 | *5745.00 | 104.2 AV | | | 1.53 V | 356 | 99.8 | 4.4 |
| 3 | 11490.00 | 59.7 PK | 74.0 | -14.3 | 1.77 V | 12 | 46.2 | 13.5 |
| 4 | 11490.00 | 46.7 AV | 54.0 | -7.3 | 1.77 V | 12 | 33.2 | 13.5 |
| 5 | #17235.00 | 55.4 PK | 74.0 | -18.6 | 2.47 V | 360 | 38.1 | 17.3 |
| 6 | #17235.00 | 44.7 AV | 54.0 | -9.3 | 2.47 V | 360 | 27.4 | 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 157 | 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 | *5785.00 | 118.1 PK | | | 1.51 H | 342 | 113.7 | 4.4 |
| 2 | *5785.00 | 108.3 AV | | | 1.51 H | 342 | 103.9 | 4.4 |
| 3 | 11570.00 | 56.2 PK | 74.0 | -17.8 | 1.59 H | 143 | 42.7 | 13.5 |
| 4 | 11570.00 | 43.5 AV | 54.0 | -10.5 | 1.59 H | 143 | 30.0 | 13.5 |
| 5 | #17355.00 | 54.3 PK | 74.0 | -19.7 | 3.13 H | 296 | 36.3 | 18.0 |
| 6 | #17355.00 | 42.2 AV | 54.0 | -11.8 | 3.13 H | 296 | 24.2 | 18.0 |
| 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 | *5785.00 | 115.5 PK | | | 1.54 V | 360 | 111.1 | 4.4 |
| 2 | *5785.00 | 104.1 AV | | | 1.54 V | 360 | 99.7 | 4.4 |
| 3 | 11570.00 | 59.6 PK | 74.0 | -14.4 | 1.83 V | 18 | 46.1 | 13.5 |
| 4 | 11570.00 | 47.1 AV | 54.0 | -6.9 | 1.83 V | 18 | 33.6 | 13.5 |
| 5 | #17355.00 | 54.4 PK | 74.0 | -19.6 | 2.48 V | 352 | 36.4 | 18.0 |
| 6 | #17355.00 | 43.8 AV | 54.0 | -10.2 | 2.48 V | 352 | 25.8 | 18.0 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5825.00 | 118.3 PK | | | 1.53 H | 355 | 113.9 | 4.4 |
| 2 | *5825.00 | 108.2 AV | | | 1.53 H | 355 | 103.8 | 4.4 |
| 3 | 11650.00 | 56.1 PK | 74.0 | -17.9 | 1.60 H | 142 | 42.4 | 13.7 |
| 4 | 11650.00 | 43.8 AV | 54.0 | -10.2 | 1.60 H | 142 | 30.1 | 13.7 |
| 5 | #17475.00 | 54.0 PK | 74.0 | -20.0 | 3.09 H | 301 | 35.4 | 18.6 |
| 6 | #17475.00 | 42.0 AV | 54.0 | -12.0 | 3.09 H | 301 | 23.4 | 18.6 |
| 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 | *5825.00 | 115.5 PK | | | 1.48 V | 360 | 111.1 | 4.4 |
| 2 | *5825.00 | 104.2 AV | | | 1.48 V | 360 | 99.8 | 4.4 |
| 3 | 11650.00 | 59.5 PK | 74.0 | -14.5 | 1.76 V | 18 | 45.8 | 13.7 |
| 4 | 11650.00 | 46.9 AV | 54.0 | -7.1 | 1.76 V | 18 | 33.2 | 13.7 |
| 5 | #17475.00 | 55.1 PK | 74.0 | -18.9 | 2.44 V | 360 | 36.5 | 18.6 |
| 6 | #17475.00 | 44.6 AV | 54.0 | -9.4 | 2.44 V | 360 | 26.0 | 18.6 |

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.

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | 5150.00 | 56.3 PK | 74.0 | -17.7 | 1.51 H | 319 | 52.6 | 3.7 |
| 2 | 5150.00 | 44.3 AV | 54.0 | -9.7 | 1.51 H | 319 | 40.6 | 3.7 |
| 3 | *5190.00 | 105.3 PK | | | 1.51 H | 319 | 101.6 | 3.7 |
| 4 | *5190.00 | 96.7 AV | | | 1.51 H | 319 | 93.0 | 3.7 |
| 5 | 5356.00 | 57.7 PK | 74.0 | -16.3 | 1.51 H | 319 | 53.6 | 4.1 |
| 6 | 5356.00 | 47.2 AV | 54.0 | -6.8 | 1.51 H | 319 | 43.1 | 4.1 |
| 7 | #10380.00 | 46.1 PK | 74.0 | -27.9 | 2.35 H | 23 | 33.0 | 13.1 |
| 8 | #10380.00 | 36.5 AV | 54.0 | -17.5 | 2.35 H | 23 | 23.4 | 13.1 |
| 9 | 15570.00 | 54.4 PK | 74.0 | -19.6 | 3.90 H | 305 | 41.1 | 13.3 |
| 10 | 15570.00 | 43.8 AV | 54.0 | -10.2 | 3.90 H | 305 | 30.5 | 13.3 |

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 | 5150.00 | 54.7 PK | 74.0 | -19.3 | 1.11 V | 295 | 51.0 | 3.7 |
| 2 | 5150.00 | 42.7 AV | 54.0 | -11.3 | 1.11 V | 295 | 39.0 | 3.7 |
| 3 | *5190.00 | 101.6 PK | | | 1.11 V | 295 | 97.9 | 3.7 |
| 4 | *5190.00 | 92.6 AV | | | 1.11 V | 295 | 88.9 | 3.7 |
| 5 | 5356.00 | 55.3 PK | 74.0 | -18.7 | 1.11 V | 295 | 51.2 | 4.1 |
| 6 | 5356.00 | 45.2 AV | 54.0 | -8.8 | 1.11 V | 295 | 41.1 | 4.1 |
| 7 | #10380.00 | 48.7 PK | 74.0 | -25.3 | 1.55 V | 321 | 35.6 | 13.1 |
| 8 | #10380.00 | 39.2 AV | 54.0 | -14.8 | 1.55 V | 321 | 26.1 | 13.1 |
| 9 | 15570.00 | 55.7 PK | 74.0 | -18.3 | 2.35 V | 333 | 42.4 | 13.3 |
| 10 | 15570.00 | 45.0 AV | 54.0 | -9.0 | 2.35 V | 333 | 31.7 | 13.3 |

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5230.00 | 105.3 PK | | | 1.52 H | 334 | 101.5 | 3.8 |
| 2 | *5230.00 | 97.0 AV | | | 1.52 H | 334 | 93.2 | 3.8 |
| 3 | 5350.00 | 56.8 PK | 74.0 | -17.2 | 1.52 H | 334 | 52.7 | 4.1 |
| 4 | 5350.00 | 45.6 AV | 54.0 | -8.4 | 1.52 H | 334 | 41.5 | 4.1 |
| 5 | #10460.00 | 46.0 PK | 74.0 | -28.0 | 2.28 H | 22 | 32.9 | 13.1 |
| 6 | #10460.00 | 36.4 AV | 54.0 | -17.6 | 2.28 H | 22 | 23.3 | 13.1 |
| 7 | 15690.00 | 54.9 PK | 74.0 | -19.1 | 4.00 H | 293 | 41.1 | 13.8 |
| 8 | 15690.00 | 43.8 AV | 54.0 | -10.2 | 4.00 H | 293 | 30.0 | 13.8 |

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 | *5230.00 | 101.4 PK | | | 1.01 V | 315 | 97.6 | 3.8 |
| 2 | *5230.00 | 92.5 AV | | | 1.01 V | 315 | 88.7 | 3.8 |
| 3 | 5350.00 | 54.7 PK | 74.0 | -19.3 | 1.01 V | 315 | 50.6 | 4.1 |
| 4 | 5350.00 | 43.0 AV | 54.0 | -11.0 | 1.01 V | 315 | 38.9 | 4.1 |
| 5 | #10460.00 | 49.0 PK | 74.0 | -25.0 | 1.59 V | 339 | 35.9 | 13.1 |
| 6 | #10460.00 | 39.0 AV | 54.0 | -15.0 | 1.59 V | 339 | 25.9 | 13.1 |
| 7 | 15690.00 | 55.3 PK | 74.0 | -18.7 | 2.38 V | 334 | 41.5 | 13.8 |
| 8 | 15690.00 | 44.8 AV | 54.0 | -9.2 | 2.38 V | 334 | 31.0 | 13.8 |

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 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 | *5755.00 | 114.9 PK | | | 1.54 H | 358 | 110.5 | 4.4 |
| 2 | *5755.00 | 104.9 AV | | | 1.54 H | 358 | 100.5 | 4.4 |
| 3 | 11510.00 | 56.6 PK | 74.0 | -17.4 | 1.59 H | 126 | 43.0 | 13.6 |
| 4 | 11510.00 | 43.8 AV | 54.0 | -10.2 | 1.59 H | 126 | 30.2 | 13.6 |
| 5 | #17265.00 | 54.2 PK | 74.0 | -19.8 | 3.22 H | 311 | 36.6 | 17.6 |
| 6 | #17265.00 | 42.4 AV | 54.0 | -11.6 | 3.22 H | 311 | 24.8 | 17.6 |
| 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 | *5755.00 | 112.3 PK | | | 1.55 V | 356 | 107.9 | 4.4 |
| 2 | *5755.00 | 101.5 AV | | | 1.55 V | 356 | 97.1 | 4.4 |
| 3 | 11510.00 | 60.4 PK | 74.0 | -13.6 | 1.81 V | 39 | 46.8 | 13.6 |
| 4 | 11510.00 | 47.4 AV | 54.0 | -6.6 | 1.81 V | 39 | 33.8 | 13.6 |
| 5 | #17265.00 | 55.4 PK | 74.0 | -18.6 | 2.39 V | 345 | 37.8 | 17.6 |
| 6 | #17265.00 | 44.8 AV | 54.0 | -9.2 | 2.39 V | 345 | 27.2 | 17.6 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5795.00 | 114.9 PK | | | 1.57 H | 358 | 110.5 | 4.4 |
| 2 | *5795.00 | 104.3 AV | | | 1.57 H | 358 | 99.9 | 4.4 |
| 3 | 11590.00 | 56.2 PK | 74.0 | -17.8 | 1.53 H | 119 | 42.7 | 13.5 |
| 4 | 11590.00 | 43.7 AV | 54.0 | -10.3 | 1.53 H | 119 | 30.2 | 13.5 |
| 5 | #17385.00 | 54.5 PK | 74.0 | -19.5 | 3.20 H | 319 | 36.2 | 18.3 |
| 6 | #17385.00 | 42.9 AV | 54.0 | -11.1 | 3.20 H | 319 | 24.6 | 18.3 |
| 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 | *5795.00 | 112.7 PK | | | 1.53 V | 360 | 108.3 | 4.4 |
| 2 | *5795.00 | 101.9 AV | | | 1.53 V | 360 | 97.5 | 4.4 |
| 3 | 11590.00 | 59.5 PK | 74.0 | -14.5 | 1.78 V | 41 | 46.0 | 13.5 |
| 4 | 11590.00 | 47.0 AV | 54.0 | -7.0 | 1.78 V | 41 | 33.5 | 13.5 |
| 5 | #17385.00 | 54.7 PK | 74.0 | -19.3 | 2.38 V | 337 | 36.4 | 18.3 |
| 6 | #17385.00 | 44.2 AV | 54.0 | -9.8 | 2.38 V | 337 | 25.9 | 18.3 |

REMARKS:

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

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| | | | |
|------------------------|---------------|------------------------------|--------------|
| CHANNEL | TX Channel 42 | 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 | 57.2 PK | 74.0 | -16.8 | 1.55 H | 343 | 53.5 | 3.7 |
| 2 | 5150.00 | 44.7 AV | 54.0 | -9.3 | 1.55 H | 343 | 41.0 | 3.7 |
| 3 | *5210.00 | 103.6 PK | | | 1.55 H | 343 | 99.9 | 3.7 |
| 4 | *5210.00 | 95.9 AV | | | 1.55 H | 343 | 92.2 | 3.7 |
| 5 | 5350.00 | 56.2 PK | 74.0 | -17.8 | 1.55 H | 343 | 52.1 | 4.1 |
| 6 | 5350.00 | 47.1 AV | 54.0 | -6.9 | 1.55 H | 343 | 43.0 | 4.1 |
| 7 | #10420.00 | 45.8 PK | 74.0 | -28.2 | 2.26 H | 13 | 32.7 | 13.1 |
| 8 | #10420.00 | 36.1 AV | 54.0 | -17.9 | 2.26 H | 13 | 23.0 | 13.1 |
| 9 | 15630.00 | 53.8 PK | 74.0 | -20.2 | 3.97 H | 290 | 40.2 | 13.6 |
| 10 | 15630.00 | 43.2 AV | 54.0 | -10.8 | 3.97 H | 290 | 29.6 | 13.6 |

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 | 5150.00 | 55.0 PK | 74.0 | -19.0 | 1.11 V | 298 | 51.3 | 3.7 |
| 2 | 5150.00 | 43.0 AV | 54.0 | -11.0 | 1.11 V | 298 | 39.3 | 3.7 |
| 3 | *5210.00 | 99.4 PK | | | 1.11 V | 298 | 95.7 | 3.7 |
| 4 | *5210.00 | 90.8 AV | | | 1.11 V | 298 | 87.1 | 3.7 |
| 5 | 5350.00 | 54.6 PK | 74.0 | -19.4 | 1.11 V | 298 | 50.5 | 4.1 |
| 6 | 5350.00 | 44.9 AV | 54.0 | -9.1 | 1.11 V | 298 | 40.8 | 4.1 |
| 7 | #10420.00 | 48.9 PK | 74.0 | -25.1 | 1.47 V | 351 | 35.8 | 13.1 |
| 8 | #10420.00 | 39.0 AV | 54.0 | -15.0 | 1.47 V | 351 | 25.9 | 13.1 |
| 9 | 15630.00 | 55.9 PK | 74.0 | -18.1 | 2.40 V | 347 | 42.3 | 13.6 |
| 10 | 15630.00 | 45.1 AV | 54.0 | -8.9 | 2.40 V | 347 | 31.5 | 13.6 |

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) |
| 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 | *5775.00 | 107.5 PK | | | 3.55 H | 62 | 103.1 | 4.4 |
| 2 | *5775.00 | 97.5 AV | | | 3.55 H | 62 | 93.1 | 4.4 |
| 3 | 11550.00 | 56.8 PK | 74.0 | -17.2 | 1.56 H | 105 | 43.3 | 13.5 |
| 4 | 11550.00 | 44.0 AV | 54.0 | -10.0 | 1.56 H | 105 | 30.5 | 13.5 |
| 5 | #17325.00 | 54.1 PK | 74.0 | -19.9 | 3.12 H | 321 | 36.3 | 17.8 |
| 6 | #17325.00 | 42.4 AV | 54.0 | -11.6 | 3.12 H | 321 | 24.6 | 17.8 |

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 | *5775.00 | 105.7 PK | | | 1.53 V | 360 | 101.3 | 4.4 |
| 2 | *5775.00 | 95.1 AV | | | 1.53 V | 360 | 90.7 | 4.4 |
| 3 | 11550.00 | 60.1 PK | 74.0 | -13.9 | 1.83 V | 40 | 46.6 | 13.5 |
| 4 | 11550.00 | 47.3 AV | 54.0 | -6.7 | 1.83 V | 40 | 33.8 | 13.5 |
| 5 | #17325.00 | 55.9 PK | 74.0 | -18.1 | 2.45 V | 360 | 38.1 | 17.8 |
| 6 | #17325.00 | 44.8 AV | 54.0 | -9.2 | 2.45 V | 360 | 27.0 | 17.8 |

REMARKS:

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

Below 1GHz Data:
802.11a

| | | | |
|------------------------|----------------|--------------------------|-----------------|
| CHANNEL | TX Channel 149 | 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 | 94.19 | 39.6 QP | 43.5 | -3.9 | 1.50 H | 311 | 53.2 | -13.6 |
| 2 | 219.58 | 33.3 QP | 46.0 | -12.7 | 2.00 H | 201 | 44.5 | -11.2 |
| 3 | 380.73 | 39.7 QP | 46.0 | -6.3 | 2.50 H | 168 | 45.5 | -5.8 |
| 4 | 470.72 | 42.9 QP | 46.0 | -3.1 | 2.00 H | 188 | 46.5 | -3.6 |
| 5 | 699.99 | 29.9 QP | 46.0 | -16.1 | 3.00 H | 98 | 29.4 | 0.5 |
| 6 | 840.23 | 31.1 QP | 46.0 | -14.9 | 1.00 H | 143 | 28.8 | 2.3 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 53.36 | 31.3 QP | 40.0 | -8.7 | 1.00 V | 135 | 39.5 | -8.2 |
| 2 | 113.22 | 26.5 QP | 43.5 | -17.0 | 2.00 V | 235 | 37.3 | -10.8 |
| 3 | 190.68 | 29.4 QP | 43.5 | -14.1 | 3.00 V | 302 | 40.3 | -10.9 |
| 4 | 373.10 | 42.7 QP | 46.0 | -3.3 | 1.00 V | 135 | 48.6 | -5.9 |
| 5 | 470.27 | 37.7 QP | 46.0 | -8.3 | 2.00 V | 301 | 41.3 | -3.6 |
| 6 | 896.25 | 36.4 QP | 46.0 | -9.6 | 1.50 V | 319 | 33.5 | 2.9 |

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

4.1.9 Test Results (Mode 3)

Above 1GHz Data:

802.11a

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 63.7 PK | 74.0 | -10.3 | 2.08 H | 349 | 60.0 | 3.7 |
| 2 | 5150.00 | 45.4 AV | 54.0 | -8.6 | 2.08 H | 349 | 41.7 | 3.7 |
| 3 | *5180.00 | 111.9 PK | | | 2.08 H | 349 | 108.2 | 3.7 |
| 4 | *5180.00 | 102.6 AV | | | 2.08 H | 349 | 98.9 | 3.7 |
| 5 | #10360.00 | 45.0 PK | 74.0 | -29.0 | 1.56 H | 166 | 32.0 | 13.0 |
| 6 | #10360.00 | 33.5 AV | 54.0 | -20.5 | 1.56 H | 166 | 20.5 | 13.0 |
| 7 | 15540.00 | 55.2 PK | 74.0 | -18.8 | 3.12 H | 289 | 42.1 | 13.1 |
| 8 | 15540.00 | 43.3 AV | 54.0 | -10.7 | 3.12 H | 289 | 30.2 | 13.1 |
| 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 | 5150.00 | 60.8 PK | 74.0 | -13.2 | 1.44 V | 338 | 57.1 | 3.7 |
| 2 | 5150.00 | 45.9 AV | 54.0 | -8.1 | 1.44 V | 338 | 42.2 | 3.7 |
| 3 | *5180.00 | 107.9 PK | | | 1.44 V | 338 | 104.2 | 3.7 |
| 4 | *5180.00 | 98.8 AV | | | 1.44 V | 338 | 95.1 | 3.7 |
| 5 | #10360.00 | 49.2 PK | 74.0 | -24.8 | 1.97 V | 19 | 36.2 | 13.0 |
| 6 | #10360.00 | 37.0 AV | 54.0 | -17.0 | 1.97 V | 19 | 24.0 | 13.0 |
| 7 | 15540.00 | 55.4 PK | 74.0 | -18.6 | 2.29 V | 348 | 42.3 | 13.1 |
| 8 | 15540.00 | 43.9 AV | 54.0 | -10.1 | 2.29 V | 348 | 30.8 | 13.1 |

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 40 | 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 | 54.5 PK | 74.0 | -19.5 | 2.12 H | 348 | 50.8 | 3.7 |
| 2 | 5150.00 | 41.6 AV | 54.0 | -12.4 | 2.12 H | 348 | 37.9 | 3.7 |
| 3 | *5200.00 | 111.3 PK | | | 2.12 H | 348 | 107.6 | 3.7 |
| 4 | *5200.00 | 101.8 AV | | | 2.12 H | 348 | 98.1 | 3.7 |
| 5 | 5350.00 | 48.6 PK | 74.0 | -25.4 | 2.12 H | 348 | 44.5 | 4.1 |
| 6 | 5350.00 | 37.2 AV | 54.0 | -16.8 | 2.12 H | 348 | 33.1 | 4.1 |
| 7 | #10400.00 | 45.3 PK | 74.0 | -28.7 | 1.57 H | 156 | 32.3 | 13.0 |
| 8 | #10400.00 | 33.7 AV | 54.0 | -20.3 | 1.57 H | 156 | 20.7 | 13.0 |
| 9 | 15600.00 | 54.4 PK | 74.0 | -19.6 | 3.05 H | 297 | 41.1 | 13.3 |
| 10 | 15600.00 | 42.8 AV | 54.0 | -11.2 | 3.05 H | 297 | 29.5 | 13.3 |

| 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 | 5150.00 | 51.8 PK | 74.0 | -22.2 | 1.50 V | 337 | 48.1 | 3.7 |
| 2 | 5150.00 | 40.7 AV | 54.0 | -13.3 | 1.50 V | 337 | 37.0 | 3.7 |
| 3 | *5200.00 | 108.3 PK | | | 1.50 V | 337 | 104.6 | 3.7 |
| 4 | *5200.00 | 98.4 AV | | | 1.50 V | 337 | 94.7 | 3.7 |
| 5 | 5350.00 | 45.1 PK | 74.0 | -28.9 | 1.50 V | 337 | 41.0 | 4.1 |
| 6 | 5350.00 | 33.9 AV | 54.0 | -20.1 | 1.50 V | 337 | 29.8 | 4.1 |
| 7 | #10400.00 | 48.9 PK | 74.0 | -25.1 | 1.92 V | 18 | 35.9 | 13.0 |
| 8 | #10400.00 | 36.5 AV | 54.0 | -17.5 | 1.92 V | 18 | 23.5 | 13.0 |
| 9 | 15600.00 | 55.9 PK | 74.0 | -18.1 | 2.37 V | 334 | 42.6 | 13.3 |
| 10 | 15600.00 | 44.3 AV | 54.0 | -9.7 | 2.37 V | 334 | 31.0 | 13.3 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5240.00 | 112.2 PK | | | 2.08 H | 347 | 108.4 | 3.8 |
| 2 | *5240.00 | 102.1 AV | | | 2.08 H | 347 | 98.3 | 3.8 |
| 3 | 5397.00 | 49.9 PK | 74.0 | -24.1 | 2.08 H | 347 | 45.8 | 4.1 |
| 4 | 5397.00 | 38.2 AV | 54.0 | -15.8 | 2.08 H | 347 | 34.1 | 4.1 |
| 5 | #10480.00 | 45.4 PK | 74.0 | -28.6 | 1.60 H | 150 | 32.2 | 13.2 |
| 6 | #10480.00 | 33.7 AV | 54.0 | -20.3 | 1.60 H | 150 | 20.5 | 13.2 |
| 7 | 15720.00 | 54.3 PK | 74.0 | -19.7 | 3.01 H | 305 | 40.7 | 13.6 |
| 8 | 15720.00 | 42.6 AV | 54.0 | -11.4 | 3.01 H | 305 | 29.0 | 13.6 |
| 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 | *5240.00 | 108.3 PK | | | 1.54 V | 322 | 104.5 | 3.8 |
| 2 | *5240.00 | 98.3 AV | | | 1.54 V | 322 | 94.5 | 3.8 |
| 3 | 5350.00 | 47.2 PK | 74.0 | -26.8 | 1.54 V | 322 | 43.1 | 4.1 |
| 4 | 5350.00 | 37.4 AV | 54.0 | -16.6 | 1.54 V | 322 | 33.3 | 4.1 |
| 5 | #10480.00 | 49.1 PK | 74.0 | -24.9 | 1.92 V | 25 | 35.9 | 13.2 |
| 6 | #10480.00 | 36.9 AV | 54.0 | -17.1 | 1.92 V | 25 | 23.7 | 13.2 |
| 7 | 15720.00 | 56.0 PK | 74.0 | -18.0 | 2.33 V | 348 | 42.4 | 13.6 |
| 8 | 15720.00 | 44.0 AV | 54.0 | -10.0 | 2.33 V | 348 | 30.4 | 13.6 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5745.00 | 120.5 PK | | | 1.45 H | 6 | 116.1 | 4.4 |
| 2 | *5745.00 | 117.3 AV | | | 1.45 H | 6 | 112.9 | 4.4 |
| 3 | 11490.00 | 56.5 PK | 74.0 | -17.5 | 1.44 H | 85 | 43.0 | 13.5 |
| 4 | 11490.00 | 43.8 AV | 54.0 | -10.2 | 1.44 H | 85 | 30.3 | 13.5 |
| 5 | #17235.00 | 54.4 PK | 74.0 | -19.6 | 3.12 H | 297 | 37.1 | 17.3 |
| 6 | #17235.00 | 42.3 AV | 54.0 | -11.7 | 3.12 H | 297 | 25.0 | 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 | *5745.00 | 119.1 PK | | | 1.74 V | 347 | 114.7 | 4.4 |
| 2 | *5745.00 | 109.1 AV | | | 1.74 V | 347 | 104.7 | 4.4 |
| 3 | 11490.00 | 59.7 PK | 74.0 | -14.3 | 1.81 V | 29 | 46.2 | 13.5 |
| 4 | 11490.00 | 46.5 AV | 54.0 | -7.5 | 1.81 V | 29 | 33.0 | 13.5 |
| 5 | #17235.00 | 55.1 PK | 74.0 | -18.9 | 2.49 V | 348 | 37.8 | 17.3 |
| 6 | #17235.00 | 43.7 AV | 54.0 | -10.3 | 2.49 V | 348 | 26.4 | 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 157 | 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 | *5785.00 | 120.7 PK | | | 1.47 H | 5 | 116.3 | 4.4 |
| 2 | *5785.00 | 117.7 AV | | | 1.47 H | 5 | 113.3 | 4.4 |
| 3 | 11570.00 | 56.5 PK | 74.0 | -17.5 | 1.46 H | 90 | 43.0 | 13.5 |
| 4 | 11570.00 | 43.6 AV | 54.0 | -10.4 | 1.46 H | 90 | 30.1 | 13.5 |
| 5 | #17355.00 | 54.9 PK | 74.0 | -19.1 | 3.16 H | 308 | 36.9 | 18.0 |
| 6 | #17355.00 | 42.7 AV | 54.0 | -11.3 | 3.16 H | 308 | 24.7 | 18.0 |
| 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 | *5785.00 | 120.2 PK | | | 1.77 V | 358 | 115.8 | 4.4 |
| 2 | *5785.00 | 109.8 AV | | | 1.77 V | 358 | 105.4 | 4.4 |
| 3 | 11570.00 | 59.4 PK | 74.0 | -14.6 | 1.79 V | 30 | 45.9 | 13.5 |
| 4 | 11570.00 | 46.5 AV | 54.0 | -7.5 | 1.79 V | 30 | 33.0 | 13.5 |
| 5 | #17355.00 | 55.5 PK | 74.0 | -18.5 | 2.54 V | 345 | 37.5 | 18.0 |
| 6 | #17355.00 | 44.0 AV | 54.0 | -10.0 | 2.54 V | 345 | 26.0 | 18.0 |

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5825.00 | 120.8 PK | | | 1.48 H | 4 | 116.4 | 4.4 |
| 2 | *5825.00 | 117.8 AV | | | 1.48 H | 4 | 113.4 | 4.4 |
| 3 | 11650.00 | 57.2 PK | 74.0 | -16.8 | 1.50 H | 99 | 43.5 | 13.7 |
| 4 | 11650.00 | 44.3 AV | 54.0 | -9.7 | 1.50 H | 99 | 30.6 | 13.7 |
| 5 | #17475.00 | 54.0 PK | 74.0 | -20.0 | 3.13 H | 304 | 35.4 | 18.6 |
| 6 | #17475.00 | 41.8 AV | 54.0 | -12.2 | 3.13 H | 304 | 23.2 | 18.6 |

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 | *5825.00 | 120.3 PK | | | 1.77 V | 355 | 115.9 | 4.4 |
| 2 | *5825.00 | 109.7 AV | | | 1.77 V | 355 | 105.3 | 4.4 |
| 3 | 11650.00 | 60.0 PK | 74.0 | -14.0 | 1.82 V | 5 | 46.3 | 13.7 |
| 4 | 11650.00 | 46.8 AV | 54.0 | -7.2 | 1.82 V | 5 | 33.1 | 13.7 |
| 5 | #17475.00 | 55.4 PK | 74.0 | -18.6 | 2.53 V | 337 | 36.8 | 18.6 |
| 6 | #17475.00 | 44.3 AV | 54.0 | -9.7 | 2.53 V | 337 | 25.7 | 18.6 |

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.

802.11ac (VHT20)

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 61.4 PK | 74.0 | -12.6 | 2.34 H | 355 | 57.7 | 3.7 |
| 2 | 5150.00 | 44.2 AV | 54.0 | -9.8 | 2.34 H | 355 | 40.5 | 3.7 |
| 3 | *5180.00 | 106.2 PK | | | 2.34 H | 355 | 102.5 | 3.7 |
| 4 | *5180.00 | 95.6 AV | | | 2.34 H | 355 | 91.9 | 3.7 |
| 5 | #10360.00 | 44.1 PK | 74.0 | -29.9 | 1.54 H | 133 | 31.1 | 13.0 |
| 6 | #10360.00 | 32.7 AV | 54.0 | -21.3 | 1.54 H | 133 | 19.7 | 13.0 |
| 7 | 15540.00 | 54.8 PK | 74.0 | -19.2 | 3.07 H | 306 | 41.7 | 13.1 |
| 8 | 15540.00 | 43.1 AV | 54.0 | -10.9 | 3.07 H | 306 | 30.0 | 13.1 |

| 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 | 5150.00 | 58.7 PK | 74.0 | -15.3 | 1.50 V | 332 | 55.0 | 3.7 |
| 2 | 5150.00 | 43.3 AV | 54.0 | -10.7 | 1.50 V | 332 | 39.6 | 3.7 |
| 3 | *5180.00 | 102.2 PK | | | 1.50 V | 332 | 98.5 | 3.7 |
| 4 | *5180.00 | 91.9 AV | | | 1.50 V | 332 | 88.2 | 3.7 |
| 5 | #10360.00 | 48.6 PK | 74.0 | -25.4 | 1.86 V | 23 | 35.6 | 13.0 |
| 6 | #10360.00 | 36.1 AV | 54.0 | -17.9 | 1.86 V | 23 | 23.1 | 13.0 |
| 7 | 15540.00 | 55.4 PK | 74.0 | -18.6 | 2.30 V | 322 | 42.3 | 13.1 |
| 8 | 15540.00 | 43.6 AV | 54.0 | -10.4 | 2.30 V | 322 | 30.5 | 13.1 |

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 40 | 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 | 52.9 PK | 74.0 | -21.1 | 2.40 H | 353 | 49.2 | 3.7 |
| 2 | 5150.00 | 39.7 AV | 54.0 | -14.3 | 2.40 H | 353 | 36.0 | 3.7 |
| 3 | *5200.00 | 106.1 PK | | | 2.40 H | 353 | 102.4 | 3.7 |
| 4 | *5200.00 | 94.9 AV | | | 2.40 H | 353 | 91.2 | 3.7 |
| 5 | #10400.00 | 44.2 PK | 74.0 | -29.8 | 1.59 H | 151 | 31.2 | 13.0 |
| 6 | #10400.00 | 32.6 AV | 54.0 | -21.4 | 1.59 H | 151 | 19.6 | 13.0 |
| 7 | 15600.00 | 53.9 PK | 74.0 | -20.1 | 3.07 H | 306 | 40.6 | 13.3 |
| 8 | 15600.00 | 42.4 AV | 54.0 | -11.6 | 3.07 H | 306 | 29.1 | 13.3 |

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 | 5150.00 | 50.2 PK | 74.0 | -23.8 | 1.55 V | 343 | 46.5 | 3.7 |
| 2 | 5150.00 | 38.8 AV | 54.0 | -15.2 | 1.55 V | 343 | 35.1 | 3.7 |
| 3 | *5200.00 | 102.1 PK | | | 1.55 V | 343 | 98.4 | 3.7 |
| 4 | *5200.00 | 91.1 AV | | | 1.55 V | 343 | 87.4 | 3.7 |
| 5 | #10400.00 | 48.8 PK | 74.0 | -25.2 | 1.89 V | 40 | 35.8 | 13.0 |
| 6 | #10400.00 | 36.5 AV | 54.0 | -17.5 | 1.89 V | 40 | 23.5 | 13.0 |
| 7 | 15600.00 | 56.3 PK | 74.0 | -17.7 | 2.27 V | 323 | 43.0 | 13.3 |
| 8 | 15600.00 | 44.2 AV | 54.0 | -9.8 | 2.27 V | 323 | 30.9 | 13.3 |

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5240.00 | 106.1 PK | | | 2.38 H | 358 | 102.3 | 3.8 |
| 2 | *5240.00 | 96.2 AV | | | 2.38 H | 358 | 92.4 | 3.8 |
| 3 | 5350.00 | 44.1 PK | 74.0 | -29.9 | 2.38 H | 358 | 40.0 | 4.1 |
| 4 | 5350.00 | 33.2 AV | 54.0 | -20.8 | 2.38 H | 358 | 29.1 | 4.1 |
| 5 | #10480.00 | 44.7 PK | 74.0 | -29.3 | 1.58 H | 141 | 31.5 | 13.2 |
| 6 | #10480.00 | 33.0 AV | 54.0 | -21.0 | 1.58 H | 141 | 19.8 | 13.2 |
| 7 | 15720.00 | 54.4 PK | 74.0 | -19.6 | 3.16 H | 315 | 40.8 | 13.6 |
| 8 | 15720.00 | 42.8 AV | 54.0 | -11.2 | 3.16 H | 315 | 29.2 | 13.6 |

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 | *5240.00 | 102.1 PK | | | 1.55 V | 323 | 98.3 | 3.8 |
| 2 | *5240.00 | 92.5 AV | | | 1.55 V | 323 | 88.7 | 3.8 |
| 3 | 5350.00 | 41.4 PK | 74.0 | -32.6 | 1.55 V | 323 | 37.3 | 4.1 |
| 4 | 5350.00 | 32.3 AV | 54.0 | -21.7 | 1.55 V | 323 | 28.2 | 4.1 |
| 5 | #10480.00 | 48.0 PK | 74.0 | -26.0 | 1.86 V | 28 | 34.8 | 13.2 |
| 6 | #10480.00 | 36.0 AV | 54.0 | -18.0 | 1.86 V | 28 | 22.8 | 13.2 |
| 7 | 15720.00 | 56.4 PK | 74.0 | -17.6 | 2.33 V | 331 | 42.8 | 13.6 |
| 8 | 15720.00 | 44.3 AV | 54.0 | -9.7 | 2.33 V | 331 | 30.7 | 13.6 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5745.00 | 120.4 PK | | | 2.13 H | 353 | 116.0 | 4.4 |
| 2 | *5745.00 | 107.3 AV | | | 2.13 H | 353 | 102.9 | 4.4 |
| 3 | 11490.00 | 56.4 PK | 74.0 | -17.6 | 1.51 H | 114 | 42.9 | 13.5 |
| 4 | 11490.00 | 43.6 AV | 54.0 | -10.4 | 1.51 H | 114 | 30.1 | 13.5 |
| 5 | #17235.00 | 54.2 PK | 74.0 | -19.8 | 3.06 H | 313 | 36.9 | 17.3 |
| 6 | #17235.00 | 42.0 AV | 54.0 | -12.0 | 3.06 H | 313 | 24.7 | 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 | *5745.00 | 112.1 PK | | | 1.80 V | 352 | 107.7 | 4.4 |
| 2 | *5745.00 | 100.2 AV | | | 1.80 V | 352 | 95.8 | 4.4 |
| 3 | 11490.00 | 60.1 PK | 74.0 | -13.9 | 1.90 V | 3 | 46.6 | 13.5 |
| 4 | 11490.00 | 46.9 AV | 54.0 | -7.1 | 1.90 V | 3 | 33.4 | 13.5 |
| 5 | #17235.00 | 55.8 PK | 74.0 | -18.2 | 2.52 V | 354 | 38.5 | 17.3 |
| 6 | #17235.00 | 44.4 AV | 54.0 | -9.6 | 2.52 V | 354 | 27.1 | 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 157 | 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 | *5785.00 | 120.0 PK | | | 2.13 H | 355 | 115.6 | 4.4 |
| 2 | *5785.00 | 107.6 AV | | | 2.13 H | 355 | 103.2 | 4.4 |
| 3 | 11570.00 | 56.9 PK | 74.0 | -17.1 | 1.46 H | 98 | 43.4 | 13.5 |
| 4 | 11570.00 | 43.8 AV | 54.0 | -10.2 | 1.46 H | 98 | 30.3 | 13.5 |
| 5 | #17355.00 | 54.6 PK | 74.0 | -19.4 | 3.07 H | 307 | 36.6 | 18.0 |
| 6 | #17355.00 | 42.3 AV | 54.0 | -11.7 | 3.07 H | 307 | 24.3 | 18.0 |
| 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 | *5785.00 | 111.9 PK | | | 1.82 V | 354 | 107.5 | 4.4 |
| 2 | *5785.00 | 100.3 AV | | | 1.82 V | 354 | 95.9 | 4.4 |
| 3 | 11570.00 | 60.4 PK | 74.0 | -13.6 | 1.85 V | 9 | 46.9 | 13.5 |
| 4 | 11570.00 | 47.1 AV | 54.0 | -6.9 | 1.85 V | 9 | 33.6 | 13.5 |
| 5 | #17355.00 | 55.2 PK | 74.0 | -18.8 | 2.52 V | 341 | 37.2 | 18.0 |
| 6 | #17355.00 | 43.8 AV | 54.0 | -10.2 | 2.52 V | 341 | 25.8 | 18.0 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5825.00 | 119.4 PK | | | 2.11 H | 352 | 115.0 | 4.4 |
| 2 | *5825.00 | 107.4 AV | | | 2.11 H | 352 | 103.0 | 4.4 |
| 3 | 11650.00 | 56.7 PK | 74.0 | -17.3 | 1.55 H | 109 | 43.0 | 13.7 |
| 4 | 11650.00 | 44.0 AV | 54.0 | -10.0 | 1.55 H | 109 | 30.3 | 13.7 |
| 5 | #17475.00 | 54.1 PK | 74.0 | -19.9 | 3.15 H | 294 | 35.5 | 18.6 |
| 6 | #17475.00 | 42.1 AV | 54.0 | -11.9 | 3.15 H | 294 | 23.5 | 18.6 |
| 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 | *5825.00 | 112.0 PK | | | 1.89 V | 356 | 107.6 | 4.4 |
| 2 | *5825.00 | 100.5 AV | | | 1.89 V | 356 | 96.1 | 4.4 |
| 3 | 11650.00 | 59.7 PK | 74.0 | -14.3 | 1.86 V | 16 | 46.0 | 13.7 |
| 4 | 11650.00 | 46.9 AV | 54.0 | -7.1 | 1.86 V | 16 | 33.2 | 13.7 |
| 5 | #17475.00 | 55.7 PK | 74.0 | -18.3 | 2.44 V | 343 | 37.1 | 18.6 |
| 6 | #17475.00 | 44.1 AV | 54.0 | -9.9 | 2.44 V | 343 | 25.5 | 18.6 |

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.

802.11ac (VHT40)

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 55.1 PK | 74.0 | -18.9 | 1.80 H | 360 | 51.4 | 3.7 |
| 2 | 5150.00 | 46.9 AV | 54.0 | -7.1 | 1.80 H | 360 | 43.2 | 3.7 |
| 3 | *5190.00 | 103.1 PK | | | 1.80 H | 360 | 99.4 | 3.7 |
| 4 | *5190.00 | 94.5 AV | | | 1.80 H | 360 | 90.8 | 3.7 |
| 5 | 5350.00 | 52.6 PK | 74.0 | -21.4 | 1.80 H | 360 | 48.5 | 4.1 |
| 6 | 5350.00 | 41.2 AV | 54.0 | -12.8 | 1.80 H | 360 | 37.1 | 4.1 |
| 7 | #10380.00 | 44.7 PK | 74.0 | -29.3 | 1.59 H | 146 | 31.6 | 13.1 |
| 8 | #10380.00 | 32.9 AV | 54.0 | -21.1 | 1.59 H | 146 | 19.8 | 13.1 |
| 9 | 15570.00 | 54.4 PK | 74.0 | -19.6 | 3.16 H | 292 | 41.1 | 13.3 |
| 10 | 15570.00 | 42.8 AV | 54.0 | -11.2 | 3.16 H | 292 | 29.5 | 13.3 |

| 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 | 5150.00 | 52.4 PK | 74.0 | -21.6 | 1.55 V | 327 | 48.7 | 3.7 |
| 2 | 5150.00 | 46.0 AV | 54.0 | -8.0 | 1.55 V | 327 | 42.3 | 3.7 |
| 3 | *5190.00 | 101.2 PK | | | 1.55 V | 327 | 97.5 | 3.7 |
| 4 | *5190.00 | 90.7 AV | | | 1.55 V | 327 | 87.0 | 3.7 |
| 5 | 5350.00 | 49.9 PK | 74.0 | -24.1 | 1.55 V | 327 | 45.8 | 4.1 |
| 6 | 5350.00 | 40.3 AV | 54.0 | -13.7 | 1.55 V | 327 | 36.2 | 4.1 |
| 7 | #10380.00 | 49.1 PK | 74.0 | -24.9 | 1.81 V | 20 | 36.0 | 13.1 |
| 8 | #10380.00 | 36.9 AV | 54.0 | -17.1 | 1.81 V | 20 | 23.8 | 13.1 |
| 9 | 15570.00 | 55.4 PK | 74.0 | -18.6 | 2.32 V | 347 | 42.1 | 13.3 |
| 10 | 15570.00 | 43.7 AV | 54.0 | -10.3 | 2.32 V | 347 | 30.4 | 13.3 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5230.00 | 103.3 PK | | | 1.74 H | 360 | 99.5 | 3.8 |
| 2 | *5230.00 | 93.6 AV | | | 1.74 H | 360 | 89.8 | 3.8 |
| 3 | 5350.00 | 50.3 PK | 74.0 | -23.7 | 1.74 H | 360 | 46.2 | 4.1 |
| 4 | 5350.00 | 37.2 AV | 54.0 | -16.8 | 1.74 H | 360 | 33.1 | 4.1 |
| 5 | #10460.00 | 44.5 PK | 74.0 | -29.5 | 1.54 H | 133 | 31.4 | 13.1 |
| 6 | #10460.00 | 33.2 AV | 54.0 | -20.8 | 1.54 H | 133 | 20.1 | 13.1 |
| 7 | 15690.00 | 54.2 PK | 74.0 | -19.8 | 3.12 H | 322 | 40.4 | 13.8 |
| 8 | 15690.00 | 42.8 AV | 54.0 | -11.2 | 3.12 H | 322 | 29.0 | 13.8 |

| 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 | *5230.00 | 99.3 PK | | | 1.53 V | 352 | 95.5 | 3.8 |
| 2 | *5230.00 | 90.1 AV | | | 1.53 V | 352 | 86.3 | 3.8 |
| 3 | 5350.00 | 47.7 PK | 74.0 | -26.3 | 1.53 V | 352 | 43.6 | 4.1 |
| 4 | 5350.00 | 36.2 AV | 54.0 | -17.8 | 1.53 V | 352 | 32.1 | 4.1 |
| 5 | #10460.00 | 49.1 PK | 74.0 | -24.9 | 1.89 V | 18 | 36.0 | 13.1 |
| 6 | #10460.00 | 36.5 AV | 54.0 | -17.5 | 1.89 V | 18 | 23.4 | 13.1 |
| 7 | 15690.00 | 55.5 PK | 74.0 | -18.5 | 2.31 V | 319 | 41.7 | 13.8 |
| 8 | 15690.00 | 43.6 AV | 54.0 | -10.4 | 2.31 V | 319 | 29.8 | 13.8 |

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 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 | *5755.00 | 114.8 PK | | | 2.03 H | 357 | 110.4 | 4.4 |
| 2 | *5755.00 | 101.9 AV | | | 2.03 H | 357 | 97.5 | 4.4 |
| 3 | 11510.00 | 56.5 PK | 74.0 | -17.5 | 1.48 H | 84 | 42.9 | 13.6 |
| 4 | 11510.00 | 44.0 AV | 54.0 | -10.0 | 1.48 H | 84 | 30.4 | 13.6 |
| 5 | #17265.00 | 55.0 PK | 74.0 | -19.0 | 3.06 H | 324 | 37.4 | 17.6 |
| 6 | #17265.00 | 42.7 AV | 54.0 | -11.3 | 3.06 H | 324 | 25.1 | 17.6 |
| 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 | *5755.00 | 109.9 PK | | | 1.96 V | 359 | 105.5 | 4.4 |
| 2 | *5755.00 | 98.7 AV | | | 1.96 V | 359 | 94.3 | 4.4 |
| 3 | 11510.00 | 59.9 PK | 74.0 | -14.1 | 1.89 V | 11 | 46.3 | 13.6 |
| 4 | 11510.00 | 46.9 AV | 54.0 | -7.1 | 1.89 V | 11 | 33.3 | 13.6 |
| 5 | #17265.00 | 55.3 PK | 74.0 | -18.7 | 2.49 V | 343 | 37.7 | 17.6 |
| 6 | #17265.00 | 44.0 AV | 54.0 | -10.0 | 2.49 V | 343 | 26.4 | 17.6 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5795.00 | 113.8 PK | | | 2.04 H | 358 | 109.4 | 4.4 |
| 2 | *5795.00 | 101.1 AV | | | 2.04 H | 358 | 96.7 | 4.4 |
| 3 | 11590.00 | 56.9 PK | 74.0 | -17.1 | 1.55 H | 100 | 43.4 | 13.5 |
| 4 | 11590.00 | 44.3 AV | 54.0 | -9.7 | 1.55 H | 100 | 30.8 | 13.5 |
| 5 | #17385.00 | 53.7 PK | 74.0 | -20.3 | 3.11 H | 323 | 35.4 | 18.3 |
| 6 | #17385.00 | 41.9 AV | 54.0 | -12.1 | 3.11 H | 323 | 23.6 | 18.3 |
| 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 | *5795.00 | 109.2 PK | | | 1.90 V | 360 | 104.8 | 4.4 |
| 2 | *5795.00 | 98.6 AV | | | 1.90 V | 360 | 94.2 | 4.4 |
| 3 | 11590.00 | 60.5 PK | 74.0 | -13.5 | 1.79 V | 19 | 47.0 | 13.5 |
| 4 | 11590.00 | 47.5 AV | 54.0 | -6.5 | 1.79 V | 19 | 34.0 | 13.5 |
| 5 | #17385.00 | 55.7 PK | 74.0 | -18.3 | 2.45 V | 330 | 37.4 | 18.3 |
| 6 | #17385.00 | 44.1 AV | 54.0 | -9.9 | 2.45 V | 330 | 25.8 | 18.3 |

REMARKS:

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

802.11ac (VHT80)

| | | | |
|------------------------|---------------|--------------------------|--------------|
| CHANNEL | TX Channel 42 | 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 | 54.8 PK | 74.0 | -19.2 | 1.79 H | 360 | 51.1 | 3.7 |
| 2 | 5150.00 | 49.2 AV | 54.0 | -4.8 | 1.79 H | 360 | 45.5 | 3.7 |
| 3 | *5210.00 | 102.6 PK | | | 1.79 H | 360 | 98.9 | 3.7 |
| 4 | *5210.00 | 93.2 AV | | | 1.79 H | 360 | 89.5 | 3.7 |
| 5 | 5350.00 | 52.4 PK | 74.0 | -21.6 | 1.79 H | 360 | 48.3 | 4.1 |
| 6 | 5350.00 | 42.2 AV | 54.0 | -11.8 | 1.79 H | 360 | 38.1 | 4.1 |
| 7 | #10420.00 | 45.0 PK | 74.0 | -29.0 | 1.59 H | 142 | 31.9 | 13.1 |
| 8 | #10420.00 | 33.1 AV | 54.0 | -20.9 | 1.59 H | 142 | 20.0 | 13.1 |
| 9 | 15630.00 | 54.9 PK | 74.0 | -19.1 | 3.16 H | 294 | 41.3 | 13.6 |
| 10 | 15630.00 | 43.0 AV | 54.0 | -11.0 | 3.16 H | 294 | 29.4 | 13.6 |

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 | 5150.00 | 52.2 PK | 74.0 | -21.8 | 1.48 V | 336 | 48.5 | 3.7 |
| 2 | 5150.00 | 48.4 AV | 54.0 | -5.6 | 1.48 V | 336 | 44.7 | 3.7 |
| 3 | *5210.00 | 98.7 PK | | | 1.48 V | 336 | 95.0 | 3.7 |
| 4 | *5210.00 | 89.9 AV | | | 1.48 V | 336 | 86.2 | 3.7 |
| 5 | 5350.00 | 49.8 PK | 74.0 | -24.2 | 1.48 V | 336 | 45.7 | 4.1 |
| 6 | 5350.00 | 41.2 AV | 54.0 | -12.8 | 1.48 V | 336 | 37.1 | 4.1 |
| 7 | #10420.00 | 48.1 PK | 74.0 | -25.9 | 1.84 V | 14 | 35.0 | 13.1 |
| 8 | #10420.00 | 36.0 AV | 54.0 | -18.0 | 1.84 V | 14 | 22.9 | 13.1 |
| 9 | 15630.00 | 56.1 PK | 74.0 | -17.9 | 2.30 V | 332 | 42.5 | 13.6 |
| 10 | 15630.00 | 44.4 AV | 54.0 | -9.6 | 2.30 V | 332 | 30.8 | 13.6 |

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) |
| 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 | *5775.00 | 110.8 PK | | | 1.78 H | 360 | 106.4 | 4.4 |
| 2 | *5775.00 | 99.8 AV | | | 1.78 H | 360 | 95.4 | 4.4 |
| 3 | 11550.00 | 56.7 PK | 74.0 | -17.3 | 1.51 H | 98 | 43.2 | 13.5 |
| 4 | 11550.00 | 44.0 AV | 54.0 | -10.0 | 1.51 H | 98 | 30.5 | 13.5 |
| 5 | #17325.00 | 53.5 PK | 74.0 | -20.5 | 3.11 H | 324 | 35.7 | 17.8 |
| 6 | #17325.00 | 41.6 AV | 54.0 | -12.4 | 3.11 H | 324 | 23.8 | 17.8 |
| 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 | *5775.00 | 103.2 PK | | | 1.96 V | 355 | 98.8 | 4.4 |
| 2 | *5775.00 | 93.3 AV | | | 1.96 V | 355 | 88.9 | 4.4 |
| 3 | 11550.00 | 60.5 PK | 74.0 | -13.5 | 1.79 V | 7 | 47.0 | 13.5 |
| 4 | 11550.00 | 47.2 AV | 54.0 | -6.8 | 1.79 V | 7 | 33.7 | 13.5 |
| 5 | #17325.00 | 54.9 PK | 74.0 | -19.1 | 2.51 V | 347 | 37.1 | 17.8 |
| 6 | #17325.00 | 43.7 AV | 54.0 | -10.3 | 2.51 V | 347 | 25.9 | 17.8 |

REMARKS:

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

Below 1GHz Data:
802.11a

| | | | |
|------------------------|----------------|--------------------------|-----------------|
| CHANNEL | TX Channel 149 | 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 | 97.17 | 38.8 QP | 43.5 | -4.7 | 1.40 H | 153 | 51.8 | -13.0 |
| 2 | 239.55 | 33.8 QP | 46.0 | -12.2 | 1.80 H | 128 | 43.6 | -9.8 |
| 3 | 375.71 | 39.8 QP | 46.0 | -6.2 | 1.70 H | 289 | 45.7 | -5.9 |
| 4 | 450.74 | 42.8 QP | 46.0 | -3.2 | 1.30 H | 184 | 46.5 | -3.7 |
| 5 | 719.99 | 30.1 QP | 46.0 | -15.9 | 2.00 H | 331 | 29.7 | 0.4 |
| 6 | 870.21 | 31.4 QP | 46.0 | -14.6 | 2.80 H | 198 | 28.8 | 2.6 |
| 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 | 77.17 | 36.6 QP | 40.0 | -3.4 | 1.40 V | 123 | 48.9 | -12.3 |
| 2 | 242.55 | 33.6 QP | 46.0 | -12.4 | 1.76 V | 98 | 43.3 | -9.7 |
| 3 | 371.71 | 39.5 QP | 46.0 | -6.5 | 1.50 V | 259 | 45.4 | -5.9 |
| 4 | 440.74 | 42.8 QP | 46.0 | -3.2 | 1.10 V | 74 | 46.6 | -3.8 |
| 5 | 699.99 | 30.1 QP | 46.0 | -15.9 | 1.70 V | 301 | 29.6 | 0.5 |
| 6 | 850.21 | 31.2 QP | 46.0 | -14.8 | 2.50 V | 168 | 28.8 | 2.4 |

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

4.1.10 Test Results (Mode 4)

Above 1GHz Data:

802.11a

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 61.3 PK | 74.0 | -12.7 | 1.83 H | 360 | 57.6 | 3.7 |
| 2 | 5150.00 | 48.9 AV | 54.0 | -5.1 | 1.83 H | 360 | 45.2 | 3.7 |
| 3 | *5180.00 | 107.6 PK | | | 1.83 H | 360 | 103.9 | 3.7 |
| 4 | *5180.00 | 97.6 AV | | | 1.83 H | 360 | 93.9 | 3.7 |
| 5 | #10360.00 | 45.4 PK | 74.0 | -28.6 | 1.60 H | 153 | 32.4 | 13.0 |
| 6 | #10360.00 | 33.6 AV | 54.0 | -20.4 | 1.60 H | 153 | 20.6 | 13.0 |
| 7 | 15540.00 | 54.5 PK | 74.0 | -19.5 | 3.07 H | 295 | 41.4 | 13.1 |
| 8 | 15540.00 | 42.8 AV | 54.0 | -11.2 | 3.07 H | 295 | 29.7 | 13.1 |
| 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 | 5150.00 | 58.2 PK | 74.0 | -15.8 | 2.91 V | 330 | 54.5 | 3.7 |
| 2 | 5150.00 | 48.2 AV | 54.0 | -5.8 | 2.91 V | 330 | 44.5 | 3.7 |
| 3 | *5180.00 | 106.7 PK | | | 2.91 V | 330 | 103.0 | 3.7 |
| 4 | *5180.00 | 96.6 AV | | | 2.91 V | 330 | 92.9 | 3.7 |
| 5 | #10360.00 | 48.6 PK | 74.0 | -25.4 | 1.92 V | 26 | 35.6 | 13.0 |
| 6 | #10360.00 | 36.5 AV | 54.0 | -17.5 | 1.92 V | 26 | 23.5 | 13.0 |
| 7 | 15540.00 | 56.1 PK | 74.0 | -17.9 | 2.32 V | 337 | 43.0 | 13.1 |
| 8 | 15540.00 | 44.3 AV | 54.0 | -9.7 | 2.32 V | 337 | 31.2 | 13.1 |

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 40 | 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 | 58.2 PK | 74.0 | -15.8 | 1.69 H | 360 | 54.5 | 3.7 |
| 2 | 5150.00 | 44.6 AV | 54.0 | -9.4 | 1.69 H | 360 | 40.9 | 3.7 |
| 3 | *5200.00 | 108.9 PK | | | 1.69 H | 360 | 105.2 | 3.7 |
| 4 | *5200.00 | 97.9 AV | | | 1.69 H | 360 | 94.2 | 3.7 |
| 5 | 5355.00 | 48.9 PK | 74.0 | -25.1 | 1.69 H | 360 | 44.8 | 4.1 |
| 6 | 5355.00 | 35.5 AV | 54.0 | -18.5 | 1.69 H | 360 | 31.4 | 4.1 |
| 7 | #10400.00 | 44.6 PK | 74.0 | -29.4 | 1.52 H | 129 | 31.6 | 13.0 |
| 8 | #10400.00 | 33.0 AV | 54.0 | -21.0 | 1.52 H | 129 | 20.0 | 13.0 |
| 9 | 15600.00 | 55.5 PK | 74.0 | -18.5 | 3.13 H | 310 | 42.2 | 13.3 |
| 10 | 15600.00 | 43.4 AV | 54.0 | -10.6 | 3.13 H | 310 | 30.1 | 13.3 |

| 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 | 5150.00 | 55.2 PK | 74.0 | -18.8 | 2.89 V | 322 | 51.5 | 3.7 |
| 2 | 5150.00 | 43.1 AV | 54.0 | -10.9 | 2.89 V | 322 | 39.4 | 3.7 |
| 3 | *5200.00 | 107.0 PK | | | 2.89 V | 322 | 103.3 | 3.7 |
| 4 | *5200.00 | 96.2 AV | | | 2.89 V | 322 | 92.5 | 3.7 |
| 5 | 5350.00 | 43.9 PK | 74.0 | -30.1 | 2.89 V | 322 | 39.8 | 4.1 |
| 6 | 5350.00 | 34.0 AV | 54.0 | -20.0 | 2.89 V | 322 | 29.9 | 4.1 |
| 7 | #10400.00 | 48.5 PK | 74.0 | -25.5 | 1.90 V | 11 | 35.5 | 13.0 |
| 8 | #10400.00 | 36.2 AV | 54.0 | -17.8 | 1.90 V | 11 | 23.2 | 13.0 |
| 9 | 15600.00 | 56.1 PK | 74.0 | -17.9 | 2.29 V | 324 | 42.8 | 13.3 |
| 10 | 15600.00 | 44.7 AV | 54.0 | -9.3 | 2.29 V | 324 | 31.4 | 13.3 |

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5240.00 | 107.4 PK | | | 1.77 H | 360 | 103.6 | 3.8 |
| 2 | *5240.00 | 97.4 AV | | | 1.77 H | 360 | 93.6 | 3.8 |
| 3 | 5350.00 | 54.1 PK | 74.0 | -19.9 | 1.77 H | 360 | 50.0 | 4.1 |
| 4 | 5350.00 | 42.3 AV | 54.0 | -11.7 | 1.77 H | 360 | 38.2 | 4.1 |
| 5 | #10480.00 | 44.9 PK | 74.0 | -29.1 | 1.57 H | 127 | 31.7 | 13.2 |
| 6 | #10480.00 | 33.3 AV | 54.0 | -20.7 | 1.57 H | 127 | 20.1 | 13.2 |
| 7 | 15720.00 | 54.9 PK | 74.0 | -19.1 | 3.05 H | 309 | 41.3 | 13.6 |
| 8 | 15720.00 | 43.4 AV | 54.0 | -10.6 | 3.05 H | 309 | 29.8 | 13.6 |

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 | *5240.00 | 105.5 PK | | | 2.96 V | 341 | 101.7 | 3.8 |
| 2 | *5240.00 | 95.6 AV | | | 2.96 V | 341 | 91.8 | 3.8 |
| 3 | 5350.00 | 49.1 PK | 74.0 | -24.9 | 2.96 V | 341 | 45.0 | 4.1 |
| 4 | 5350.00 | 40.8 AV | 54.0 | -13.2 | 2.96 V | 341 | 36.7 | 4.1 |
| 5 | #10480.00 | 48.9 PK | 74.0 | -25.1 | 1.90 V | 25 | 35.7 | 13.2 |
| 6 | #10480.00 | 36.4 AV | 54.0 | -17.6 | 1.90 V | 25 | 23.2 | 13.2 |
| 7 | 15720.00 | 56.0 PK | 74.0 | -18.0 | 2.32 V | 326 | 42.4 | 13.6 |
| 8 | 15720.00 | 44.1 AV | 54.0 | -9.9 | 2.32 V | 326 | 30.5 | 13.6 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5745.00 | 115.1 PK | | | 2.00 H | 358 | 110.7 | 4.4 |
| 2 | *5745.00 | 104.3 AV | | | 2.00 H | 358 | 99.9 | 4.4 |
| 3 | 11490.00 | 56.7 PK | 74.0 | -17.3 | 1.49 H | 99 | 43.2 | 13.5 |
| 4 | 11490.00 | 43.9 AV | 54.0 | -10.1 | 1.49 H | 99 | 30.4 | 13.5 |
| 5 | #17235.00 | 54.2 PK | 74.0 | -19.8 | 3.11 H | 309 | 36.9 | 17.3 |
| 6 | #17235.00 | 42.2 AV | 54.0 | -11.8 | 3.11 H | 309 | 24.9 | 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 | *5745.00 | 112.6 PK | | | 3.07 V | 67 | 108.2 | 4.4 |
| 2 | *5745.00 | 101.1 AV | | | 3.07 V | 67 | 96.7 | 4.4 |
| 3 | 11490.00 | 60.1 PK | 74.0 | -13.9 | 1.84 V | 19 | 46.6 | 13.5 |
| 4 | 11490.00 | 47.0 AV | 54.0 | -7.0 | 1.84 V | 19 | 33.5 | 13.5 |
| 5 | #17235.00 | 55.3 PK | 74.0 | -18.7 | 2.49 V | 342 | 38.0 | 17.3 |
| 6 | #17235.00 | 44.0 AV | 54.0 | -10.0 | 2.49 V | 342 | 26.7 | 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 157 | 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 | *5785.00 | 115.9 PK | | | 1.97 H | 360 | 111.5 | 4.4 |
| 2 | *5785.00 | 105.3 AV | | | 1.97 H | 360 | 100.9 | 4.4 |
| 3 | 11570.00 | 56.4 PK | 74.0 | -17.6 | 1.53 H | 106 | 42.9 | 13.5 |
| 4 | 11570.00 | 43.7 AV | 54.0 | -10.3 | 1.53 H | 106 | 30.2 | 13.5 |
| 5 | #17355.00 | 54.9 PK | 74.0 | -19.1 | 3.15 H | 315 | 36.9 | 18.0 |
| 6 | #17355.00 | 42.8 AV | 54.0 | -11.2 | 3.15 H | 315 | 24.8 | 18.0 |
| 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 | *5785.00 | 113.0 PK | | | 3.08 V | 57 | 108.6 | 4.4 |
| 2 | *5785.00 | 101.6 AV | | | 3.08 V | 57 | 97.2 | 4.4 |
| 3 | 11570.00 | 60.5 PK | 74.0 | -13.5 | 1.84 V | 31 | 47.0 | 13.5 |
| 4 | 11570.00 | 47.5 AV | 54.0 | -6.5 | 1.84 V | 31 | 34.0 | 13.5 |
| 5 | #17355.00 | 55.7 PK | 74.0 | -18.3 | 2.48 V | 346 | 37.7 | 18.0 |
| 6 | #17355.00 | 44.3 AV | 54.0 | -9.7 | 2.48 V | 346 | 26.3 | 18.0 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5825.00 | 114.3 PK | | | 2.04 H | 357 | 109.9 | 4.4 |
| 2 | *5825.00 | 103.9 AV | | | 2.04 H | 357 | 99.5 | 4.4 |
| 3 | 11650.00 | 56.0 PK | 74.0 | -18.0 | 1.45 H | 114 | 42.3 | 13.7 |
| 4 | 11650.00 | 43.5 AV | 54.0 | -10.5 | 1.45 H | 114 | 29.8 | 13.7 |
| 5 | #17475.00 | 54.4 PK | 74.0 | -19.6 | 3.07 H | 306 | 35.8 | 18.6 |
| 6 | #17475.00 | 42.5 AV | 54.0 | -11.5 | 3.07 H | 306 | 23.9 | 18.6 |
| 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 | *5825.00 | 111.4 PK | | | 3.07 V | 38 | 107.0 | 4.4 |
| 2 | *5825.00 | 100.1 AV | | | 3.07 V | 38 | 95.7 | 4.4 |
| 3 | 11650.00 | 60.2 PK | 74.0 | -13.8 | 1.84 V | 20 | 46.5 | 13.7 |
| 4 | 11650.00 | 47.4 AV | 54.0 | -6.6 | 1.84 V | 20 | 33.7 | 13.7 |
| 5 | #17475.00 | 55.2 PK | 74.0 | -18.8 | 2.53 V | 349 | 36.6 | 18.6 |
| 6 | #17475.00 | 44.0 AV | 54.0 | -10.0 | 2.53 V | 349 | 25.4 | 18.6 |

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.

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5150.00 | 61.2 PK | 74.0 | -12.8 | 1.52 H | 360 | 57.5 | 3.7 |
| 2 | 5150.00 | 47.4 AV | 54.0 | -6.6 | 1.52 H | 360 | 43.7 | 3.7 |
| 3 | *5180.00 | 107.5 PK | | | 1.52 H | 360 | 103.8 | 3.7 |
| 4 | *5180.00 | 97.2 AV | | | 1.52 H | 360 | 93.5 | 3.7 |
| 5 | #10360.00 | 45.4 PK | 74.0 | -28.6 | 1.54 H | 125 | 32.4 | 13.0 |
| 6 | #10360.00 | 33.5 AV | 54.0 | -20.5 | 1.54 H | 125 | 20.5 | 13.0 |
| 7 | 15540.00 | 55.1 PK | 74.0 | -18.9 | 3.09 H | 306 | 42.0 | 13.1 |
| 8 | 15540.00 | 43.6 AV | 54.0 | -10.4 | 3.09 H | 306 | 30.5 | 13.1 |

| 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 | 5150.00 | 58.8 PK | 74.0 | -15.2 | 2.73 V | 332 | 55.1 | 3.7 |
| 2 | 5150.00 | 45.9 AV | 54.0 | -8.1 | 2.73 V | 332 | 42.2 | 3.7 |
| 3 | *5180.00 | 105.6 PK | | | 2.73 V | 332 | 101.9 | 3.7 |
| 4 | *5180.00 | 95.4 AV | | | 2.73 V | 332 | 91.7 | 3.7 |
| 5 | #10360.00 | 49.6 PK | 74.0 | -24.4 | 1.85 V | 36 | 36.6 | 13.0 |
| 6 | #10360.00 | 36.9 AV | 54.0 | -17.1 | 1.85 V | 36 | 23.9 | 13.0 |
| 7 | 15540.00 | 56.0 PK | 74.0 | -18.0 | 2.28 V | 339 | 42.9 | 13.1 |
| 8 | 15540.00 | 44.5 AV | 54.0 | -9.5 | 2.28 V | 339 | 31.4 | 13.1 |

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 40 | 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 | 62.1 PK | 74.0 | -11.9 | 1.47 H | 360 | 58.4 | 3.7 |
| 2 | 5150.00 | 44.4 AV | 54.0 | -9.6 | 1.47 H | 360 | 40.7 | 3.7 |
| 3 | *5200.00 | 107.1 PK | | | 1.47 H | 360 | 103.4 | 3.7 |
| 4 | *5200.00 | 96.6 AV | | | 1.47 H | 360 | 92.9 | 3.7 |
| 5 | #10400.00 | 45.0 PK | 74.0 | -29.0 | 1.57 H | 139 | 32.0 | 13.0 |
| 6 | #10400.00 | 33.2 AV | 54.0 | -20.8 | 1.57 H | 139 | 20.2 | 13.0 |
| 7 | 15600.00 | 54.9 PK | 74.0 | -19.1 | 3.08 H | 303 | 41.6 | 13.3 |
| 8 | 15600.00 | 43.1 AV | 54.0 | -10.9 | 3.08 H | 303 | 29.8 | 13.3 |

| 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 | 5150.00 | 59.7 PK | 74.0 | -14.3 | 2.89 V | 326 | 56.0 | 3.7 |
| 2 | 5150.00 | 42.9 AV | 54.0 | -11.1 | 2.89 V | 326 | 39.2 | 3.7 |
| 3 | *5200.00 | 105.2 PK | | | 2.89 V | 326 | 101.5 | 3.7 |
| 4 | *5200.00 | 94.8 AV | | | 2.89 V | 326 | 91.1 | 3.7 |
| 5 | #10400.00 | 48.8 PK | 74.0 | -25.2 | 1.90 V | 27 | 35.8 | 13.0 |
| 6 | #10400.00 | 36.4 AV | 54.0 | -17.6 | 1.90 V | 27 | 23.4 | 13.0 |
| 7 | 15600.00 | 56.1 PK | 74.0 | -17.9 | 2.31 V | 336 | 42.8 | 13.3 |
| 8 | 15600.00 | 44.4 AV | 54.0 | -9.6 | 2.31 V | 336 | 31.1 | 13.3 |

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5240.00 | 108.2 PK | | | 1.52 H | 360 | 104.4 | 3.8 |
| 2 | *5240.00 | 97.5 AV | | | 1.52 H | 360 | 93.7 | 3.8 |
| 3 | 5350.00 | 49.5 PK | 74.0 | -24.5 | 1.52 H | 360 | 45.4 | 4.1 |
| 4 | 5350.00 | 36.4 AV | 54.0 | -17.6 | 1.52 H | 360 | 32.3 | 4.1 |
| 5 | #10480.00 | 44.4 PK | 74.0 | -29.6 | 1.54 H | 140 | 31.2 | 13.2 |
| 6 | #10480.00 | 32.8 AV | 54.0 | -21.2 | 1.54 H | 140 | 19.6 | 13.2 |
| 7 | 15720.00 | 54.8 PK | 74.0 | -19.2 | 3.13 H | 310 | 41.2 | 13.6 |
| 8 | 15720.00 | 42.9 AV | 54.0 | -11.1 | 3.13 H | 310 | 29.3 | 13.6 |

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 | *5240.00 | 106.3 PK | | | 2.92 V | 345 | 102.5 | 3.8 |
| 2 | *5240.00 | 95.7 AV | | | 2.92 V | 345 | 91.9 | 3.8 |
| 3 | 5350.00 | 47.2 PK | 74.0 | -26.8 | 2.92 V | 345 | 43.1 | 4.1 |
| 4 | 5350.00 | 34.5 AV | 54.0 | -19.5 | 2.92 V | 345 | 30.4 | 4.1 |
| 5 | #10480.00 | 48.5 PK | 74.0 | -25.5 | 1.90 V | 34 | 35.3 | 13.2 |
| 6 | #10480.00 | 35.9 AV | 54.0 | -18.1 | 1.90 V | 34 | 22.7 | 13.2 |
| 7 | 15720.00 | 56.3 PK | 74.0 | -17.7 | 2.26 V | 329 | 42.7 | 13.6 |
| 8 | 15720.00 | 44.5 AV | 54.0 | -9.5 | 2.26 V | 329 | 30.9 | 13.6 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5745.00 | 114.9 PK | | | 1.40 H | 360 | 110.5 | 4.4 |
| 2 | *5745.00 | 103.9 AV | | | 1.40 H | 360 | 99.5 | 4.4 |
| 3 | 11490.00 | 56.4 PK | 74.0 | -17.6 | 1.50 H | 115 | 42.9 | 13.5 |
| 4 | 11490.00 | 43.7 AV | 54.0 | -10.3 | 1.50 H | 115 | 30.2 | 13.5 |
| 5 | #17235.00 | 54.4 PK | 74.0 | -19.6 | 3.10 H | 303 | 37.1 | 17.3 |
| 6 | #17235.00 | 42.4 AV | 54.0 | -11.6 | 3.10 H | 303 | 25.1 | 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 | *5745.00 | 110.2 PK | | | 1.46 V | 37 | 105.8 | 4.4 |
| 2 | *5745.00 | 98.9 AV | | | 1.46 V | 37 | 94.5 | 4.4 |
| 3 | 11490.00 | 59.9 PK | 74.0 | -14.1 | 1.82 V | 17 | 46.4 | 13.5 |
| 4 | 11490.00 | 47.1 AV | 54.0 | -6.9 | 1.82 V | 17 | 33.6 | 13.5 |
| 5 | #17235.00 | 55.7 PK | 74.0 | -18.3 | 2.47 V | 351 | 38.4 | 17.3 |
| 6 | #17235.00 | 44.3 AV | 54.0 | -9.7 | 2.47 V | 351 | 27.0 | 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 157 | 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 | *5785.00 | 115.0 PK | | | 1.37 H | 360 | 110.6 | 4.4 |
| 2 | *5785.00 | 104.0 AV | | | 1.37 H | 360 | 99.6 | 4.4 |
| 3 | 11570.00 | 56.0 PK | 74.0 | -18.0 | 1.48 H | 118 | 42.5 | 13.5 |
| 4 | 11570.00 | 43.6 AV | 54.0 | -10.4 | 1.48 H | 118 | 30.1 | 13.5 |
| 5 | #17355.00 | 54.8 PK | 74.0 | -19.2 | 3.04 H | 301 | 36.8 | 18.0 |
| 6 | #17355.00 | 42.5 AV | 54.0 | -11.5 | 3.04 H | 301 | 24.5 | 18.0 |
| 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 | *5785.00 | 110.2 PK | | | 1.44 V | 38 | 105.8 | 4.4 |
| 2 | *5785.00 | 98.7 AV | | | 1.44 V | 38 | 94.3 | 4.4 |
| 3 | 11570.00 | 60.5 PK | 74.0 | -13.5 | 1.83 V | 19 | 47.0 | 13.5 |
| 4 | 11570.00 | 47.5 AV | 54.0 | -6.5 | 1.83 V | 19 | 34.0 | 13.5 |
| 5 | #17355.00 | 55.5 PK | 74.0 | -18.5 | 2.51 V | 360 | 37.5 | 18.0 |
| 6 | #17355.00 | 44.3 AV | 54.0 | -9.7 | 2.51 V | 360 | 26.3 | 18.0 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5825.00 | 114.2 PK | | | 1.35 H | 360 | 109.8 | 4.4 |
| 2 | *5825.00 | 103.6 AV | | | 1.35 H | 360 | 99.2 | 4.4 |
| 3 | 11650.00 | 55.9 PK | 74.0 | -18.1 | 1.47 H | 115 | 42.2 | 13.7 |
| 4 | 11650.00 | 43.3 AV | 54.0 | -10.7 | 1.47 H | 115 | 29.6 | 13.7 |
| 5 | #17475.00 | 54.7 PK | 74.0 | -19.3 | 3.06 H | 295 | 36.1 | 18.6 |
| 6 | #17475.00 | 42.7 AV | 54.0 | -11.3 | 3.06 H | 295 | 24.1 | 18.6 |
| 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 | *5825.00 | 107.7 PK | | | 1.43 V | 41 | 103.3 | 4.4 |
| 2 | *5825.00 | 98.2 AV | | | 1.43 V | 41 | 93.8 | 4.4 |
| 3 | 11650.00 | 60.3 PK | 74.0 | -13.7 | 1.79 V | 22 | 46.6 | 13.7 |
| 4 | 11650.00 | 47.6 AV | 54.0 | -6.4 | 1.79 V | 22 | 33.9 | 13.7 |
| 5 | #17475.00 | 55.5 PK | 74.0 | -18.5 | 2.48 V | 359 | 36.9 | 18.6 |
| 6 | #17475.00 | 43.9 AV | 54.0 | -10.1 | 2.48 V | 359 | 25.3 | 18.6 |

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.

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| | | | |
|------------------------|---------------|--------------------------|--------------|
| CHANNEL | TX Channel 38 | 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 | 71.0 PK | 74.0 | -3.0 | 1.45 H | 360 | 67.3 | 3.7 |
| 2 | 5150.00 | 51.4 AV | 54.0 | -2.6 | 1.45 H | 360 | 47.7 | 3.7 |
| 3 | *5190.00 | 105.7 PK | | | 1.45 H | 360 | 102.0 | 3.7 |
| 4 | *5190.00 | 95.7 AV | | | 1.45 H | 360 | 92.0 | 3.7 |
| 5 | 5350.00 | 54.2 PK | 74.0 | -19.8 | 1.45 H | 360 | 50.1 | 4.1 |
| 6 | 5350.00 | 41.7 AV | 54.0 | -12.3 | 1.45 H | 360 | 37.6 | 4.1 |
| 7 | #10380.00 | 45.3 PK | 74.0 | -28.7 | 1.56 H | 148 | 32.2 | 13.1 |
| 8 | #10380.00 | 33.5 AV | 54.0 | -20.5 | 1.56 H | 148 | 20.4 | 13.1 |
| 9 | 15570.00 | 54.8 PK | 74.0 | -19.2 | 3.09 H | 301 | 41.5 | 13.3 |
| 10 | 15570.00 | 43.1 AV | 54.0 | -10.9 | 3.09 H | 301 | 29.8 | 13.3 |

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 | 5150.00 | 68.6 PK | 74.0 | -5.4 | 2.86 V | 315 | 64.9 | 3.7 |
| 2 | 5150.00 | 49.5 AV | 54.0 | -4.5 | 2.86 V | 315 | 45.8 | 3.7 |
| 3 | *5190.00 | 103.8 PK | | | 2.86 V | 315 | 100.1 | 3.7 |
| 4 | *5190.00 | 93.9 AV | | | 2.86 V | 315 | 90.2 | 3.7 |
| 5 | 5350.00 | 51.8 PK | 74.0 | -22.2 | 2.86 V | 315 | 47.7 | 4.1 |
| 6 | 5350.00 | 39.9 AV | 54.0 | -14.1 | 2.86 V | 315 | 35.8 | 4.1 |
| 7 | #10380.00 | 49.0 PK | 74.0 | -25.0 | 1.89 V | 35 | 35.9 | 13.1 |
| 8 | #10380.00 | 36.8 AV | 54.0 | -17.2 | 1.89 V | 35 | 23.7 | 13.1 |
| 9 | 15570.00 | 55.9 PK | 74.0 | -18.1 | 2.32 V | 323 | 42.6 | 13.3 |
| 10 | 15570.00 | 44.2 AV | 54.0 | -9.8 | 2.32 V | 323 | 30.9 | 13.3 |

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

| ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M | | | | | | | | |
|---|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5230.00 | 105.3 PK | | | 1.43 H | 360 | 101.5 | 3.8 |
| 2 | *5230.00 | 95.7 AV | | | 1.43 H | 360 | 91.9 | 3.8 |
| 3 | 5350.00 | 55.3 PK | 74.0 | -18.7 | 1.43 H | 360 | 51.2 | 4.1 |
| 4 | 5350.00 | 39.4 AV | 54.0 | -14.6 | 1.43 H | 360 | 35.3 | 4.1 |
| 5 | #10460.00 | 44.5 PK | 74.0 | -29.5 | 1.54 H | 141 | 31.4 | 13.1 |
| 6 | #10460.00 | 33.0 AV | 54.0 | -21.0 | 1.54 H | 141 | 19.9 | 13.1 |
| 7 | 15690.00 | 54.5 PK | 74.0 | -19.5 | 3.14 H | 298 | 40.7 | 13.8 |
| 8 | 15690.00 | 42.8 AV | 54.0 | -11.2 | 3.14 H | 298 | 29.0 | 13.8 |

| 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 | *5230.00 | 103.4 PK | | | 2.86 V | 336 | 99.6 | 3.8 |
| 2 | *5230.00 | 93.9 AV | | | 2.86 V | 336 | 90.1 | 3.8 |
| 3 | 5350.00 | 52.9 PK | 74.0 | -21.1 | 2.86 V | 336 | 48.8 | 4.1 |
| 4 | 5350.00 | 37.6 AV | 54.0 | -16.4 | 2.86 V | 336 | 33.5 | 4.1 |
| 5 | #10460.00 | 49.0 PK | 74.0 | -25.0 | 1.89 V | 18 | 35.9 | 13.1 |
| 6 | #10460.00 | 36.6 AV | 54.0 | -17.4 | 1.89 V | 18 | 23.5 | 13.1 |
| 7 | 15690.00 | 56.0 PK | 74.0 | -18.0 | 2.29 V | 326 | 42.2 | 13.8 |
| 8 | 15690.00 | 44.6 AV | 54.0 | -9.4 | 2.29 V | 326 | 30.8 | 13.8 |

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 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 | *5755.00 | 111.7 PK | | | 1.40 H | 356 | 107.3 | 4.4 |
| 2 | *5755.00 | 101.7 AV | | | 1.40 H | 356 | 97.3 | 4.4 |
| 3 | 11510.00 | 56.3 PK | 74.0 | -17.7 | 1.53 H | 125 | 42.7 | 13.6 |
| 4 | 11510.00 | 43.4 AV | 54.0 | -10.6 | 1.53 H | 125 | 29.8 | 13.6 |
| 5 | #17265.00 | 53.9 PK | 74.0 | -20.1 | 3.10 H | 315 | 36.3 | 17.6 |
| 6 | #17265.00 | 42.2 AV | 54.0 | -11.8 | 3.10 H | 315 | 24.6 | 17.6 |
| 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 | *5755.00 | 104.8 PK | | | 1.43 V | 38 | 100.4 | 4.4 |
| 2 | *5755.00 | 95.8 AV | | | 1.43 V | 38 | 91.4 | 4.4 |
| 3 | 11510.00 | 59.8 PK | 74.0 | -14.2 | 1.80 V | 21 | 46.2 | 13.6 |
| 4 | 11510.00 | 47.3 AV | 54.0 | -6.7 | 1.80 V | 21 | 33.7 | 13.6 |
| 5 | #17265.00 | 55.1 PK | 74.0 | -18.9 | 2.46 V | 355 | 37.5 | 17.6 |
| 6 | #17265.00 | 43.9 AV | 54.0 | -10.1 | 2.46 V | 355 | 26.3 | 17.6 |

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

ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M

| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| 1 | *5795.00 | 111.7 PK | | | 1.35 H | 359 | 107.3 | 4.4 |
| 2 | *5795.00 | 101.2 AV | | | 1.35 H | 359 | 96.8 | 4.4 |
| 3 | 11590.00 | 56.5 PK | 74.0 | -17.5 | 1.45 H | 120 | 43.0 | 13.5 |
| 4 | 11590.00 | 43.5 AV | 54.0 | -10.5 | 1.45 H | 120 | 30.0 | 13.5 |
| 5 | #17385.00 | 53.9 PK | 74.0 | -20.1 | 3.05 H | 295 | 35.6 | 18.3 |
| 6 | #17385.00 | 42.1 AV | 54.0 | -11.9 | 3.05 H | 295 | 23.8 | 18.3 |

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 | *5795.00 | 104.5 PK | | | 1.44 V | 39 | 100.1 | 4.4 |
| 2 | *5795.00 | 95.2 AV | | | 1.44 V | 39 | 90.8 | 4.4 |
| 3 | 11590.00 | 60.0 PK | 74.0 | -14.0 | 1.80 V | 12 | 46.5 | 13.5 |
| 4 | 11590.00 | 47.3 AV | 54.0 | -6.7 | 1.80 V | 12 | 33.8 | 13.5 |
| 5 | #17385.00 | 55.4 PK | 74.0 | -18.6 | 2.42 V | 356 | 37.1 | 18.3 |
| 6 | #17385.00 | 44.0 AV | 54.0 | -10.0 | 2.42 V | 356 | 25.7 | 18.3 |

REMARKS:

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

802.11ac (VHT80)

| | | | |
|------------------------|---------------|--------------------------|--------------|
| CHANNEL | TX Channel 42 | 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 | 65.3 PK | 74.0 | -8.7 | 1.55 H | 360 | 61.6 | 3.7 |
| 2 | 5150.00 | 50.2 AV | 54.0 | -3.8 | 1.55 H | 360 | 46.5 | 3.7 |
| 3 | *5210.00 | 105.0 PK | | | 1.55 H | 360 | 101.3 | 3.7 |
| 4 | *5210.00 | 94.7 AV | | | 1.55 H | 360 | 91.0 | 3.7 |
| 5 | 5350.00 | 53.5 PK | 74.0 | -20.5 | 1.55 H | 360 | 49.4 | 4.1 |
| 6 | 5350.00 | 44.3 AV | 54.0 | -9.7 | 1.55 H | 360 | 40.2 | 4.1 |
| 7 | #10420.00 | 44.6 PK | 74.0 | -29.4 | 1.53 H | 139 | 31.5 | 13.1 |
| 8 | #10420.00 | 33.0 AV | 54.0 | -21.0 | 1.53 H | 139 | 19.9 | 13.1 |
| 9 | 15630.00 | 54.5 PK | 74.0 | -19.5 | 3.12 H | 307 | 40.9 | 13.6 |
| 10 | 15630.00 | 42.8 AV | 54.0 | -11.2 | 3.12 H | 307 | 29.2 | 13.6 |

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 | 5150.00 | 62.9 PK | 74.0 | -11.1 | 2.95 V | 345 | 59.2 | 3.7 |
| 2 | 5150.00 | 48.3 AV | 54.0 | -5.7 | 2.95 V | 345 | 44.6 | 3.7 |
| 3 | *5210.00 | 103.2 PK | | | 2.95 V | 345 | 99.5 | 3.7 |
| 4 | *5210.00 | 92.9 AV | | | 2.95 V | 345 | 89.2 | 3.7 |
| 5 | 5350.00 | 51.1 PK | 74.0 | -22.9 | 2.95 V | 345 | 47.0 | 4.1 |
| 6 | 5350.00 | 42.4 AV | 54.0 | -11.6 | 2.95 V | 345 | 38.3 | 4.1 |
| 7 | #10420.00 | 48.7 PK | 74.0 | -25.3 | 1.87 V | 29 | 35.6 | 13.1 |
| 8 | #10420.00 | 36.4 AV | 54.0 | -17.6 | 1.87 V | 29 | 23.3 | 13.1 |
| 9 | 15630.00 | 55.9 PK | 74.0 | -18.1 | 2.33 V | 334 | 42.3 | 13.6 |
| 10 | 15630.00 | 44.0 AV | 54.0 | -10.0 | 2.33 V | 334 | 30.4 | 13.6 |

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) |
| 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 | *5775.00 | 104.8 PK | | | 1.37 H | 358 | 100.4 | 4.4 |
| 2 | *5775.00 | 96.3 AV | | | 1.37 H | 358 | 91.9 | 4.4 |
| 3 | 11550.00 | 56.0 PK | 74.0 | -18.0 | 1.54 H | 124 | 42.5 | 13.5 |
| 4 | 11550.00 | 43.1 AV | 54.0 | -10.9 | 1.54 H | 124 | 29.6 | 13.5 |
| 5 | #17325.00 | 53.2 PK | 74.0 | -20.8 | 3.12 H | 301 | 35.4 | 17.8 |
| 6 | #17325.00 | 41.5 AV | 54.0 | -12.5 | 3.12 H | 301 | 23.7 | 17.8 |
| 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 | *5775.00 | 98.2 PK | | | 1.45 V | 38 | 93.8 | 4.4 |
| 2 | *5775.00 | 89.9 AV | | | 1.45 V | 38 | 85.5 | 4.4 |
| 3 | 11550.00 | 59.7 PK | 74.0 | -14.3 | 1.83 V | 20 | 46.2 | 13.5 |
| 4 | 11550.00 | 46.8 AV | 54.0 | -7.2 | 1.83 V | 20 | 33.3 | 13.5 |
| 5 | #17325.00 | 54.9 PK | 74.0 | -19.1 | 2.33 V | 322 | 37.1 | 17.8 |
| 6 | #17325.00 | 43.6 AV | 54.0 | -10.4 | 2.33 V | 322 | 25.8 | 17.8 |

REMARKS:

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

Below 1GHz Data:
802.11a

| | | | |
|------------------------|----------------|--------------------------|-----------------|
| CHANNEL | TX Channel 149 | 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 | 94.17 | 39.5 QP | 43.5 | -4.0 | 2.00 H | 236 | 53.1 | -13.6 |
| 2 | 219.68 | 33.5 QP | 46.0 | -12.5 | 3.00 H | 39 | 44.7 | -11.2 |
| 3 | 380.75 | 38.8 QP | 46.0 | -7.2 | 1.00 H | 207 | 44.6 | -5.8 |
| 4 | 470.74 | 42.1 QP | 46.0 | -3.9 | 2.00 H | 360 | 45.7 | -3.6 |
| 5 | 700.03 | 29.2 QP | 46.0 | -16.8 | 1.00 H | 58 | 28.8 | 0.4 |
| 6 | 840.24 | 29.0 QP | 46.0 | -17.0 | 3.00 H | 360 | 26.7 | 2.3 |
| ANTENNA POLARITY & TEST DISTANCE: VERTICAL AT 3 M | | | | | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 53.33 | 30.1 QP | 40.0 | -9.9 | 2.00 V | 95 | 38.3 | -8.2 |
| 2 | 113.18 | 24.2 QP | 43.5 | -19.3 | 2.00 V | 95 | 35.0 | -10.8 |
| 3 | 190.66 | 28.9 QP | 43.5 | -14.6 | 3.00 V | 209 | 39.8 | -10.9 |
| 4 | 373.14 | 40.9 QP | 46.0 | -5.1 | 1.00 V | 0 | 46.8 | -5.9 |
| 5 | 470.33 | 37.1 QP | 46.0 | -8.9 | 1.00 V | 335 | 40.7 | -3.6 |
| 6 | 896.14 | 32.7 QP | 46.0 | -13.3 | 1.00 V | 146 | 29.8 | 2.9 |

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

4.2 Conducted Emission Measurement

4.2.1 Limits of Conducted Emission Measurement

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

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

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

4.2.2 Test Instruments

| DESCRIPTION & MANUFACTURER | MODEL NO. | SERIAL NO. | CALIBRATED DATE | CALIBRATED UNTIL |
|---|---------------------|------------|-----------------|------------------|
| Test Receiver R&S | ESCS 30 | 847124/029 | Oct. 24, 2016 | Oct. 23, 2017 |
| Line-Impedance Stabilization Network (for EUT) R&S | ESH3-Z5 | 848773/004 | Oct. 26, 2016 | Oct. 25, 2017 |
| Line-Impedance Stabilization Network (for Peripheral) R&S | ENV216 | 100072 | June 03, 2017 | June 02, 2018 |
| 50 ohms Terminator | N/A | EMC-02 | Sep. 22, 2017 | Sep. 21, 2018 |
| RF Cable | 5D-FB | COCCAB-001 | Sep. 29, 2017 | Sep. 28, 2018 |
| 10 dB PAD Mini-Circuits | HAT-10+ | CONATT-004 | June 18, 2017 | June 17, 2018 |
| Software BVADT | BVADT_Cond_V7.3.7.4 | NA | NA | NA |

Note:

1. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in Shielded Room No. 1.
- 3 Tested Date: Oct. 04, 2017

4.2.3 Test Procedure

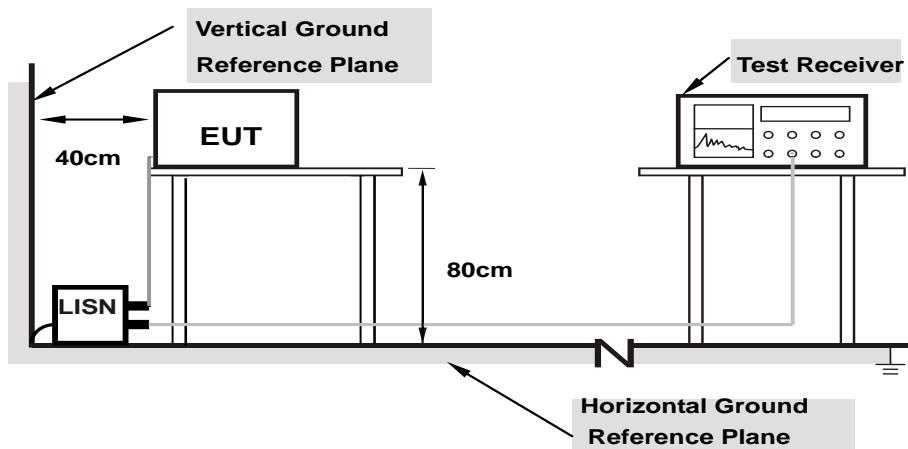
- a. The EUT was placed 0.4 meters from the conducting wall of the shielded room with EUT being connected to the power mains through a line impedance stabilization network (LISN). Other support units were connected to the power mains through another LISN. The two LISNs provide 50 ohm/ 50uH of coupling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

NOTE: All modes of operation were investigated and the worst-case emissions are reported.

4.2.4 Deviation from Test Standard

No deviation.

4.2.5 Test Setup



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

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

4.2.6 EUT Operating Condition

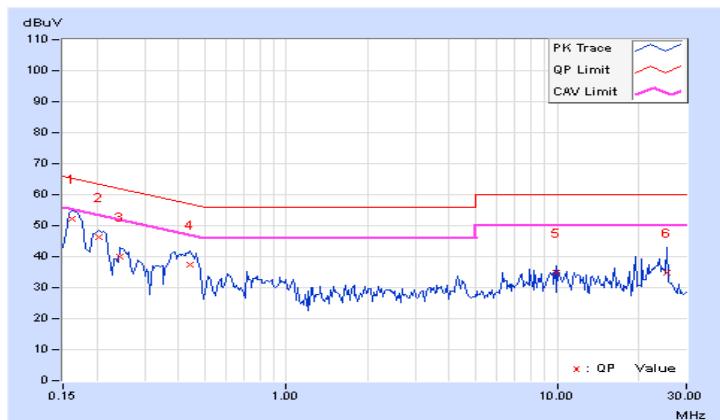
Same as 4.1.6.

4.2.7 Test Results

| Phase | | Line (L) | | Detector Function | | Quasi-Peak (QP) / Average (AV) | | | | |
|-------|----------------|--------------|---------------|-------------------|--------------|--------------------------------|--------------|--------------|---------------|---------------|
| No | Freq. | Corr. | Reading Value | Emission Level | | Limit | | Margin | | |
| | | Factor | [dB (uV)] | [dB (uV)] | | [dB (uV)] | | (dB) | | |
| | | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | |
| 1 | 0.16172 | 10.07 | 42.21 | 30.89 | 52.28 | 40.96 | 65.38 | 55.38 | -13.10 | -14.42 |
| 2 | 0.20469 | 10.06 | 36.26 | 25.79 | 46.32 | 35.85 | 63.42 | 53.42 | -17.10 | -17.57 |
| 3 | 0.24375 | 10.07 | 29.79 | 17.37 | 39.86 | 27.44 | 61.97 | 51.97 | -22.11 | -24.53 |
| 4 | 0.44297 | 10.11 | 27.48 | 14.89 | 37.59 | 25.00 | 57.01 | 47.01 | -19.42 | -22.01 |
| 5 | 9.94141 | 10.61 | 24.15 | 21.88 | 34.76 | 32.49 | 60.00 | 50.00 | -25.24 | -17.51 |
| 6 | 25.34375 | 11.33 | 23.63 | 12.92 | 34.96 | 24.25 | 60.00 | 50.00 | -25.04 | -25.75 |

REMARKS:

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

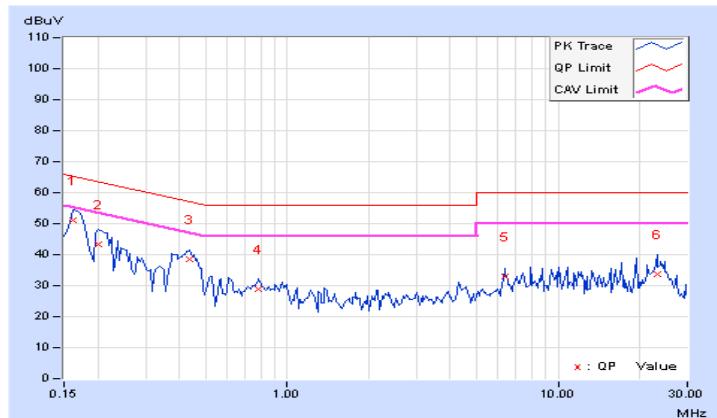


| Phase | Neutral (N) | | Detector Function | | Quasi-Peak (QP) / Average (AV) | |
|-------|-------------|--|-------------------|--|--------------------------------|--|
|-------|-------------|--|-------------------|--|--------------------------------|--|

| No | Freq. | Corr. | Reading Value | | Emission Level | | Limit | | Margin | |
|----|----------|--------|---------------|-------|----------------|-------|-----------|-------|--------|--------|
| | | Factor | [dB (uV)] | | [dB (uV)] | | [dB (uV)] | | (dB) | |
| | | [MHz] | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. |
| 1 | 0.16172 | 10.05 | 41.20 | 27.25 | 51.25 | 37.30 | 65.38 | 55.38 | -14.13 | -18.08 |
| 2 | 0.20078 | 10.03 | 33.26 | 18.14 | 43.29 | 28.17 | 63.58 | 53.58 | -20.29 | -25.41 |
| 3 | 0.43516 | 10.10 | 28.43 | 18.39 | 38.53 | 28.49 | 57.15 | 47.15 | -18.62 | -18.66 |
| 4 | 0.78672 | 10.11 | 18.76 | 9.40 | 28.87 | 19.51 | 56.00 | 46.00 | -27.13 | -26.49 |
| 5 | 6.34766 | 10.35 | 22.46 | 18.76 | 32.81 | 29.11 | 60.00 | 50.00 | -27.19 | -20.89 |
| 6 | 23.26953 | 10.99 | 22.82 | 16.83 | 33.81 | 27.82 | 60.00 | 50.00 | -26.19 | -22.18 |

REMARKS:

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



4.3 Transmit Power Measurement

4.3.1 Limits of Transmit Power Measurement

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

*B is the 26 dB emission bandwidth in megahertz

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

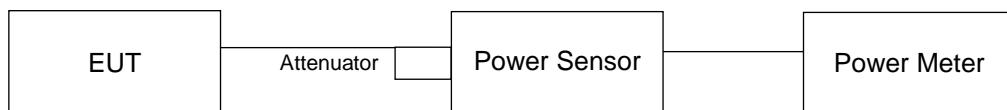
Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

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

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

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

4.3.2 Test Setup



4.3.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.3.4 Test Procedure

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.

4.3.5 Deviation from Test Standard

No deviation.

4.3.6 EUT Operating Condition

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

4.3.7 Test Result (Mode 1)

CDD Mode

802.11a

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|-------------------------------|---------|---------|---------|---------------------|----------------------|-------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 36 | 5180 | 10.89 | 9.33 | 9.44 | 9.56 | 38.67 | 15.87 | 30.00 | Pass |
| 40 | 5200 | 10.36 | 9.65 | 9.81 | 9.49 | 38.554 | 15.86 | 30.00 | Pass |
| 48 | 5240 | 10.46 | 9.76 | 10.03 | 9.56 | 39.684 | 15.99 | 30.00 | Pass |
| 149 | 5745 | 23.30 | 24.21 | 23.81 | 23.80 | 957.748 | 29.81 | 30.00 | Pass |
| 157 | 5785 | 23.00 | 23.86 | 23.45 | 23.74 | 900.647 | 29.55 | 30.00 | Pass |
| 165 | 5825 | 22.84 | 23.59 | 23.24 | 23.53 | 857.156 | 29.33 | 30.00 | Pass |

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------------|--------------------|---------------------|----------------------|-------------|
| 36 | 5180 | 120.607 | 20.81 | 21 | Pass |
| 40 | 5200 | 120.246 | 20.80 | 21 | Pass |
| 48 | 5240 | 123.770 | 20.93 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p \leq 125mW(21 dBm) to compliance.

Beamforming Mode

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|-------------------------------|---------|---------|---------|---------------------|----------------------|-------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 36 | 5180 | 4.64 | 4.07 | 4.17 | 3.73 | 10.436 | 10.19 | 25.43 | Pass |
| 40 | 5200 | 4.68 | 4.12 | 4.25 | 3.40 | 10.369 | 10.16 | 25.43 | Pass |
| 48 | 5240 | 4.89 | 4.65 | 4.12 | 3.65 | 10.899 | 10.37 | 25.43 | Pass |
| 149 | 5745 | 18.48 | 19.37 | 19.11 | 19.09 | 319.532 | 25.05 | 25.24 | Pass |
| 157 | 5785 | 18.28 | 19.24 | 19.11 | 18.97 | 311.6 | 24.94 | 25.24 | Pass |
| 165 | 5825 | 18.09 | 19.00 | 18.91 | 18.88 | 298.922 | 24.76 | 25.24 | Pass |

Note: 1. For UNII-1: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.57 \text{dBi} > 6 \text{dBi}$, so the power limit shall be reduced to $30 - (10.57 - 6) = 25.43 \text{dBm}$.
 2. For UNII-3: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.76 \text{dBi} > 6 \text{dBi}$, so the power limit shall be reduced to $30 - (10.76 - 6) = 25.24 \text{dBm}$.

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------------|--------------------|---------------------|----------------------|-------------|
| 36 | 5180 | 118.996 | 20.76 | 21 | Pass |
| 40 | 5200 | 118.233 | 20.73 | 21 | Pass |
| 48 | 5240 | 124.276 | 20.94 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p $\leq 125 \text{mW}(21 \text{ dBm})$ to compliance.

802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|-------------------------------|---------|---------|---------|---------------------|----------------------|-------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 38 | 5190 | 3.12 | 4.22 | 4.74 | 4.56 | 10.53 | 10.22 | 25.43 | Pass |
| 46 | 5230 | 4.20 | 4.30 | 4.69 | 4.15 | 10.866 | 10.36 | 25.43 | Pass |
| 151 | 5755 | 18.49 | 18.73 | 19.21 | 19.72 | 322.401 | 25.08 | 25.24 | Pass |
| 159 | 5795 | 18.32 | 19.46 | 18.98 | 18.73 | 309.941 | 24.91 | 25.24 | Pass |

Note: 1. For UNII-1: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.57 \text{dBi} > 6 \text{dBi}$, so the power limit shall be reduced to $30 - (10.57 - 6) = 25.43 \text{dBm}$.
 2. For UNII-3: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.76 \text{dBi} > 6 \text{dBi}$, so the power limit shall be reduced to $30 - (10.76 - 6) = 25.24 \text{dBm}$.

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------------|--------------------|---------------------|----------------------|-------------|
| 38 | 5190 | 120.068 | 20.79 | 21 | Pass |
| 46 | 5230 | 123.900 | 20.93 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p $\leq 125 \text{mW}$ (21 dBm) to compliance.

802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|-------------------------------|---------|---------|---------|---------------------|----------------------|-------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 42 | 5210 | 4.19 | 3.62 | 4.56 | 4.24 | 10.438 | 10.19 | 25.43 | Pass |
| 155 | 5775 | 18.78 | 19.91 | 18.64 | 18.87 | 323.662 | 25.10 | 25.24 | Pass |

Note: 1. For UNII-1: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.57 \text{dBi} > 6 \text{dBi}$, so the power limit shall be reduced to $30 - (10.57 - 6) = 25.43 \text{dBm}$.
 2. For UNII-3: Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.76 \text{dBi} > 6 \text{dBi}$, so the power limit shall be reduced to $30 - (10.76 - 6) = 25.24 \text{dBm}$.

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------------|--------------------|---------------------|----------------------|-------------|
| 42 | 5210 | 119.019 | 20.76 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p $\leq 125 \text{mW}(21 \text{ dBm})$ to compliance.

4.3.8 Test Result (Mode 2)

For U-NII-1:

CDD Mode

802.11a

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|----------------------------------|---------|---------|------------------------|-------------------------|-------------|-------------|
| | | Chain 0 | Chain 2 | Chain 3 | | | | |
| 36 | 5180 | 10.51 | 10.84 | 11.60 | 37.834 | 15.78 | 30 | Pass |
| 40 | 5200 | 10.59 | 10.69 | 11.65 | 37.799 | 15.77 | 30 | Pass |
| 48 | 5240 | 10.54 | 10.65 | 11.40 | 36.742 | 15.65 | 30 | Pass |

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------------|--------------------|---------------------|----------------------|-------------|
| 36 | 5180 | 118.000 | 20.72 | 21 | Pass |
| 40 | 5200 | 117.891 | 20.71 | 21 | Pass |
| 48 | 5240 | 114.594 | 20.59 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p \leq 125mW(21 dBm) to compliance.

Beamforming Mode

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|----------------------------------|---------|---------|------------------------|-------------------------|-------------|-------------|
| | | Chain 0 | Chain 2 | Chain 3 | | | | |
| 36 | 5180 | 6.03 | 6.24 | 7.27 | 13.549 | 11.32 | 26.57 | Pass |
| 40 | 5200 | 6.05 | 6.18 | 7.13 | 13.341 | 11.25 | 26.57 | Pass |
| 48 | 5240 | 6.10 | 6.13 | 7.18 | 13.4 | 11.27 | 26.57 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.43\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(9.43-6) = 26.57\text{dBm}$.

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------------|--------------------|---------------------|----------------------|-------------|
| 36 | 5180 | 118.825 | 20.75 | 21 | Pass |
| 40 | 5200 | 117.001 | 20.68 | 21 | Pass |
| 48 | 5240 | 117.518 | 20.70 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p $\leq 125\text{mW}(21\text{ dBm})$ to compliance.

802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|----------------------------------|---------|---------|------------------------|-------------------------|-------------|-------------|
| | | Chain 0 | Chain 2 | Chain 3 | | | | |
| 38 | 5190 | 6.16 | 6.23 | 7.25 | 13.637 | 11.35 | 26.57 | Pass |
| 46 | 5230 | 6.29 | 6.29 | 7.16 | 13.712 | 11.37 | 26.57 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.43\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(9.43-6) = 26.57\text{dBm}$.

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------------|--------------------|---------------------|----------------------|-------------|
| 38 | 5190 | 119.597 | 20.78 | 21 | Pass |
| 46 | 5230 | 120.254 | 20.80 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p $\leq 125\text{mW}(21\text{ dBm})$ to compliance.

802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|----------------------------------|---------|---------|------------------------|-------------------------|-------------|-------------|
| | | Chain 0 | Chain 2 | Chain 3 | | | | |
| 42 | 5210 | 6.36 | 6.35 | 7.01 | 13.663 | 11.36 | 26.57 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.43\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (9.43 - 6) = 26.57\text{dBm}$.

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------------|--------------------|---------------------|----------------------|-------------|
| 42 | 5210 | 119.825 | 20.79 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p $\leq 125\text{mW}(21\text{ dBm})$ to compliance.

For U-NII-3:

CDD Mode

802.11a

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|----------------------------------|---------|---------|------------------------|-------------------------|-------------|-------------|
| | | Chain 1 | Chain 2 | Chain 3 | | | | |
| 149 | 5745 | 24.21 | 23.81 | 23.80 | 743.952 | 28.72 | 30.00 | Pass |
| 157 | 5785 | 23.86 | 23.45 | 23.74 | 701.121 | 28.46 | 30.00 | Pass |
| 165 | 5825 | 23.59 | 23.24 | 23.53 | 664.847 | 28.23 | 30.00 | Pass |

Beamforming Mode

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|----------------------------------|---------|---------|------------------------|-------------------------|-------------|-------------|
| | | Chain 1 | Chain 2 | Chain 3 | | | | |
| 149 | 5745 | 21.01 | 21.58 | 22.14 | 433.745 | 26.37 | 26.38 | Pass |
| 157 | 5785 | 21.05 | 21.50 | 22.13 | 431.909 | 26.35 | 26.38 | Pass |
| 165 | 5825 | 21.08 | 21.56 | 22.05 | 431.777 | 26.35 | 26.38 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G1} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.62\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(9.62-6) = 26.38\text{dBm}$.

802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|----------------------------------|---------|---------|------------------------|-------------------------|-------------|-------------|
| | | Chain 1 | Chain 2 | Chain 3 | | | | |
| 151 | 5755 | 21.07 | 21.72 | 21.76 | 426.5 | 26.30 | 26.38 | Pass |
| 159 | 5795 | 20.87 | 21.65 | 21.78 | 419.059 | 26.22 | 26.38 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G1} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.62\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(9.62-6) = 26.38\text{dBm}$.

802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|----------------------------------|---------|---------|------------------------|-------------------------|-------------|-------------|
| | | Chain 1 | Chain 2 | Chain 3 | | | | |
| 155 | 5775 | 19.66 | 19.82 | 20.10 | 290.739 | 24.64 | 26.38 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G1} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.62\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(9.62-6) = 26.38\text{dBm}$.

4.3.9 Test Result (Mode 3)

For U-NII-1:

CDD Mode

802.11a

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|-------------------------------|---------|---------------------|----------------------|----------------|-------------|
| | | Chain 0 | Chain 2 | | | | |
| 36 | 5180 | 12.74 | 12.81 | 37.892 | 15.79 | 30 | Pass |
| 40 | 5200 | 12.64 | 12.78 | 37.332 | 15.72 | 30 | Pass |
| 48 | 5240 | 12.52 | 12.74 | 36.658 | 15.64 | 30 | Pass |

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------------|--------------------|---------------------|----------------------|-------------|
| 36 | 5180 | 118.181 | 20.73 | 21 | Pass |
| 40 | 5200 | 116.434 | 20.66 | 21 | Pass |
| 48 | 5240 | 114.332 | 20.58 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p \leq 125mW(21 dBm) to compliance.

Beamforming Mode

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|-------------------------------|---------|---------------------|----------------------|----------------|-------------|
| | | Chain 0 | Chain 2 | | | | |
| 36 | 5180 | 9.88 | 10.05 | 19.843 | 12.98 | 28.25 | Pass |
| 40 | 5200 | 9.90 | 10.09 | 19.981 | 13.01 | 28.25 | Pass |
| 48 | 5240 | 9.70 | 10.05 | 19.449 | 12.89 | 28.25 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20})^2 / 2] = 7.75 \text{dBi} > 6 \text{dBi}$, so the power limit shall be reduced to $30 - (7.75 - 6) = 28.25 \text{dBm}$.

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------------|--------------------|---------------------|----------------------|-------------|
| 36 | 5180 | 118.197 | 20.73 | 21 | Pass |
| 40 | 5200 | 119.019 | 20.76 | 21 | Pass |
| 48 | 5240 | 115.850 | 20.64 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p $\leq 125 \text{mW}(21 \text{ dBm})$ to compliance.

802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|-------------------------------|---------|---------------------|----------------------|----------------|-------------|
| | | Chain 0 | Chain 2 | | | | |
| 38 | 5190 | 9.89 | 10.00 | 19.75 | 12.96 | 28.25 | Pass |
| 46 | 5230 | 9.83 | 10.09 | 19.825 | 12.97 | 28.25 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20})^2 / 2] = 7.75 \text{dBi} > 6 \text{dBi}$, so the power limit shall be reduced to $30 - (7.75 - 6) = 28.25 \text{dBm}$.

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------------|--------------------|---------------------|----------------------|-------------|
| 38 | 5190 | 117.643 | 20.71 | 21 | Pass |
| 46 | 5230 | 118.090 | 20.72 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p $\leq 125 \text{mW}(21 \text{ dBm})$ to compliance.

802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|-------------------------------|---------|------------------------|-------------------------|----------------|-------------|
| | | Chain 0 | Chain 2 | | | | |
| 42 | 5210 | 9.84 | 10.05 | 19.754 | 12.96 | 28.25 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20})^2 / 2] = 7.75\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30 - (7.75 - 6) = 28.25\text{dBm}$.

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|----------------------|--------------------|---------------------|----------------------|-------------|
| 42 | 5210 | 117.667 | 20.71 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p $\leq 125\text{mW}(21\text{ dBm})$ to compliance.

For U-NII-3:
CDD Mode
802.11a

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|-------------------------------|---------|------------------------|-------------------------|----------------|-------------|
| | | Chain 2 | Chain 3 | | | | |
| 149 | 5745 | 23.81 | 23.80 | 480.319 | 26.82 | 30.00 | Pass |
| 157 | 5785 | 23.45 | 23.74 | 457.901 | 26.61 | 30.00 | Pass |
| 165 | 5825 | 23.24 | 23.53 | 436.287 | 26.40 | 30.00 | Pass |

Beamforming Mode

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|-------------------------------|---------|---------------------|----------------------|----------------|-------------|
| | | Chain 2 | Chain 3 | | | | |
| 149 | 5745 | 23.83 | 24.39 | 516.335 | 27.13 | 28.07 | Pass |
| 157 | 5785 | 23.98 | 24.36 | 522.933 | 27.18 | 28.07 | Pass |
| 165 | 5825 | 23.80 | 24.30 | 509.036 | 27.07 | 28.07 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G2} + 10^{G3})^2 / 2] = 7.93\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(7.93-6) = 28.07\text{dBm}$.

802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|-------------------------------|---------|---------------------|----------------------|----------------|-------------|
| | | Chain 2 | Chain 3 | | | | |
| 151 | 5755 | 22.97 | 23.01 | 398.139 | 26.00 | 28.07 | Pass |
| 159 | 5795 | 22.90 | 23.12 | 400.1 | 26.02 | 28.07 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G2} + 10^{G3})^2 / 2] = 7.93\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(7.93-6) = 28.07\text{dBm}$.

802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | Maximum Conducted Power (dBm) | | Total Power (mW) | Total Power (dBm) | Limit (dBm) | Pass / Fail |
|-------|----------------------|-------------------------------|---------|---------------------|----------------------|----------------|-------------|
| | | Chain 2 | Chain 3 | | | | |
| 155 | 5775 | 19.82 | 20.10 | 198.269 | 22.97 | 28.07 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G2} + 10^{G3})^2 / 2] = 7.93\text{dBi} > 6\text{dBi}$, so the power limit shall be reduced to $30-(7.93-6) = 28.07\text{dBm}$.

4.3.10 Test Result (Mode 4)

CDD Mode

For U-NII-1:

802.11a

| Channel | Channel Frequency (MHz) | Maximum Conducted Power (mW) | Maximum Conducted Power (dBm) | Power Limit (dBm) | Pass/Fail |
|---------|-------------------------|------------------------------|-------------------------------|-------------------|-----------|
| | | Chain 0 | | | |
| 36 | 5180 | 39.994 | 16.02 | 30 | Pass |
| 40 | 5200 | 38.994 | 15.91 | 30 | Pass |
| 48 | 5240 | 38.815 | 15.89 | 30 | Pass |

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------------|-----------------|------------------|-------------------|-------------|
| 36 | 5180 | 124.737 | 20.96 | 21 | Pass |
| 40 | 5200 | 121.618 | 20.85 | 21 | Pass |
| 48 | 5240 | 121.060 | 20.83 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p \leq 125mW(21 dBm) to compliance.

802.11ac (VHT20)

| Channel | Channel Frequency (MHz) | Maximum Conducted Power (mW) | Maximum Conducted Power (dBm) | Power Limit (dBm) | Pass/Fail |
|---------|-------------------------|------------------------------|-------------------------------|-------------------|-----------|
| | | Chain 0 | | | |
| 36 | 5180 | 38.459 | 15.85 | 30 | Pass |
| 40 | 5200 | 40.272 | 16.05 | 30 | Pass |
| 48 | 5240 | 38.905 | 15.90 | 30 | Pass |

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------------|-----------------|------------------|-------------------|-------------|
| 36 | 5180 | 119.949 | 20.79 | 21 | Pass |
| 40 | 5200 | 125.604 | 20.99 | 21 | Pass |
| 48 | 5240 | 121.340 | 20.84 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p \leq 125mW(21 dBm) to compliance.

802.11ac (VHT40)

| Channel | Channel Frequency (MHz) | Maximum Conducted Power (mW) | Maximum Conducted Power (dBm) | Power Limit (dBm) | Pass/Fail |
|---------|-------------------------|------------------------------|-------------------------------|-------------------|-----------|
| | | Chain 0 | | | |
| 38 | 5190 | 39.446 | 15.96 | 30 | Pass |
| 46 | 5230 | 38.282 | 15.83 | 30 | Pass |

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------------|-----------------|------------------|-------------------|-------------|
| 38 | 5190 | 123.028 | 20.90 | 21 | Pass |
| 46 | 5230 | 119.397 | 20.77 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p \leq 125mW(21 dBm) to compliance.

802.11ac (VHT80)

| Channel | Channel Frequency (MHz) | Maximum Conducted Power (mW) | Maximum Conducted Power (dBm) | Power Limit (dBm) | Pass/Fail |
|---------|-------------------------|------------------------------|-------------------------------|-------------------|-----------|
| | | Chain 0 | | | |
| 42 | 5210 | 39.719 | 15.99 | 30 | Pass |

EIRP POWER OUTPUT

| Chan. | Chan. Freq. (MHz) | EIRP Power (mW) | EIRP Power (dBm) | Power Limit (dBm) | Pass / Fail |
|-------|-------------------|-----------------|------------------|-------------------|-------------|
| 42 | 5210 | 123.879 | 20.93 | 21 | Pass |

*This device is outdoor access point and antenna at any elevation angle above 30 degrees as measured from the horizon, therefore Max. e.i.r.p \leq 125mW(21 dBm) to compliance.

For U-NII-3:
CDD Mode
802.11a

| Channel | Channel Frequency (MHz) | Maximum Conducted Power (mW) | Maximum Conducted Power (dBm) | Power Limit (dBm) | Pass/Fail |
|---------|-------------------------|------------------------------|-------------------------------|-------------------|-----------|
| | | Chain 2 | | | |
| 149 | 5745 | 240.436 | 23.81 | 30.00 | Pass |
| 157 | 5785 | 221.309 | 23.45 | 30.00 | Pass |
| 165 | 5825 | 210.863 | 23.24 | 30.00 | Pass |

802.11ac (VHT20)

| Channel | Channel Frequency (MHz) | Maximum Conducted Power (mW) | Maximum Conducted Power (dBm) | Power Limit (dBm) | Pass/Fail |
|---------|-------------------------|------------------------------|-------------------------------|-------------------|-----------|
| | | Chain 2 | | | |
| 149 | 5745 | 241.546 | 23.83 | 30.00 | Pass |
| 157 | 5785 | 250.035 | 23.98 | 30.00 | Pass |
| 165 | 5825 | 239.883 | 23.80 | 30.00 | Pass |

802.11ac (VHT40)

| Channel | Channel Frequency (MHz) | Maximum Conducted Power (mW) | Maximum Conducted Power (dBm) | Power Limit (dBm) | Pass/Fail |
|---------|-------------------------|------------------------------|-------------------------------|-------------------|-----------|
| | | Chain 2 | | | |
| 151 | 5755 | 198.153 | 22.97 | 30.00 | Pass |
| 159 | 5795 | 194.984 | 22.90 | 30.00 | Pass |

802.11ac (VHT80)

| Channel | Channel Frequency (MHz) | Maximum Conducted Power (mW) | Maximum Conducted Power (dBm) | Power Limit (dBm) | Pass/Fail |
|---------|-------------------------|------------------------------|-------------------------------|-------------------|-----------|
| | | Chain 2 | | | |
| 155 | 5775 | 114.025 | 20.57 | 30.00 | Pass |

4.4 Occupied Bandwidth Measurement

4.4.1 Test Setup



4.4.2 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.4.3 Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with resolution bandwidth in the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth and set the detector to 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.

4.4.4 Test Results (Mode 1)

802.11a

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | | |
|---------|-------------------------|--------------------------|---------|---------|---------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 36 | 5180 | 16.92 | 16.80 | 16.92 | 16.92 |
| 40 | 5200 | 17.04 | 16.92 | 16.92 | 17.04 |
| 48 | 5240 | 16.92 | 16.80 | 17.04 | 16.92 |
| 149 | 5745 | 29.28 | 29.28 | 25.92 | 20.16 |
| 157 | 5785 | 29.40 | 29.40 | 26.88 | 21.60 |
| 165 | 5825 | 30.36 | 28.56 | 28.08 | 22.20 |

802.11ac (VHT20)

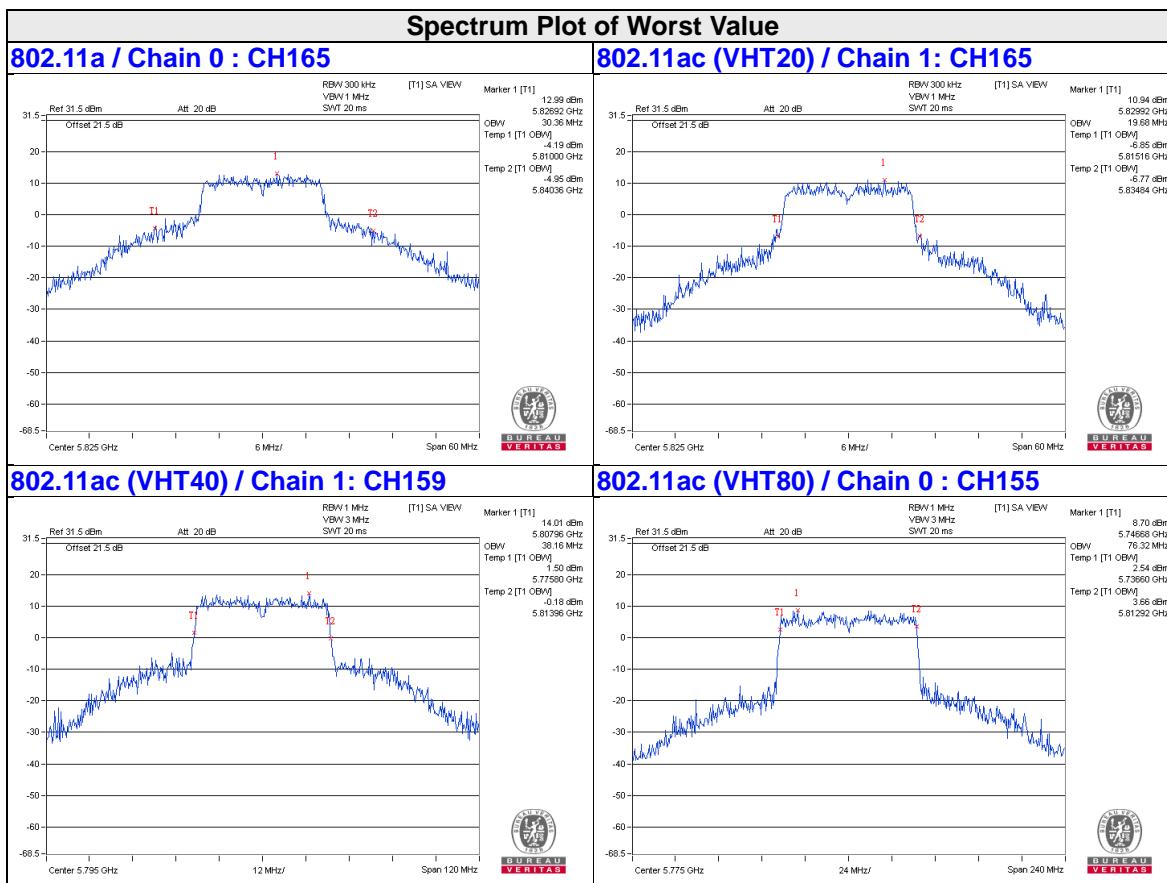
| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | | |
|---------|-------------------------|--------------------------|---------|---------|---------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 36 | 5180 | 18.12 | 18.00 | 17.88 | 18.00 |
| 40 | 5200 | 18.12 | 18.12 | 18.00 | 18.00 |
| 48 | 5240 | 18.12 | 18.12 | 18.00 | 17.88 |
| 149 | 5745 | 18.48 | 18.60 | 18.48 | 18.00 |
| 157 | 5785 | 18.84 | 19.20 | 18.60 | 18.12 |
| 165 | 5825 | 19.08 | 19.68 | 18.84 | 18.24 |

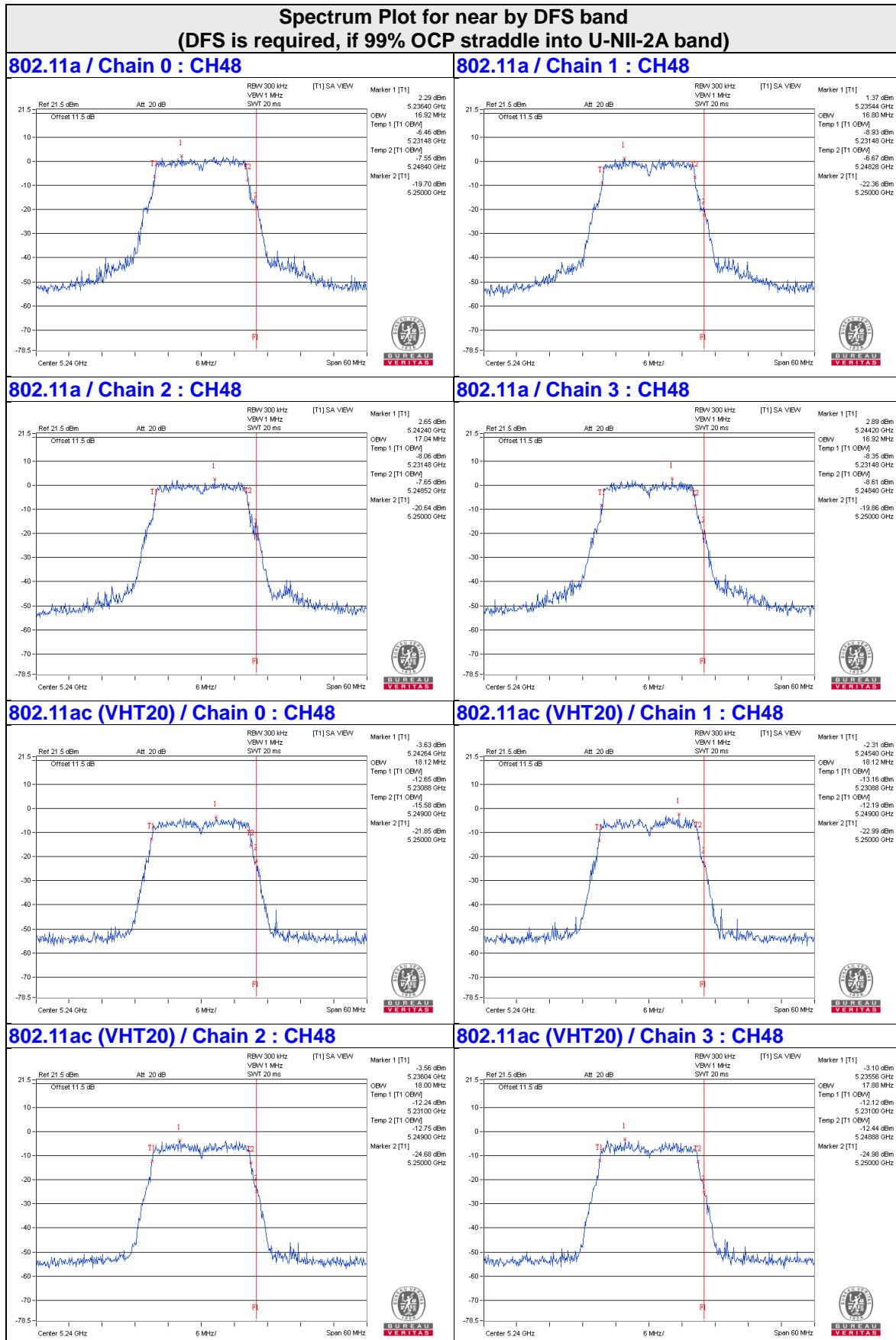
802.11ac (VHT40)

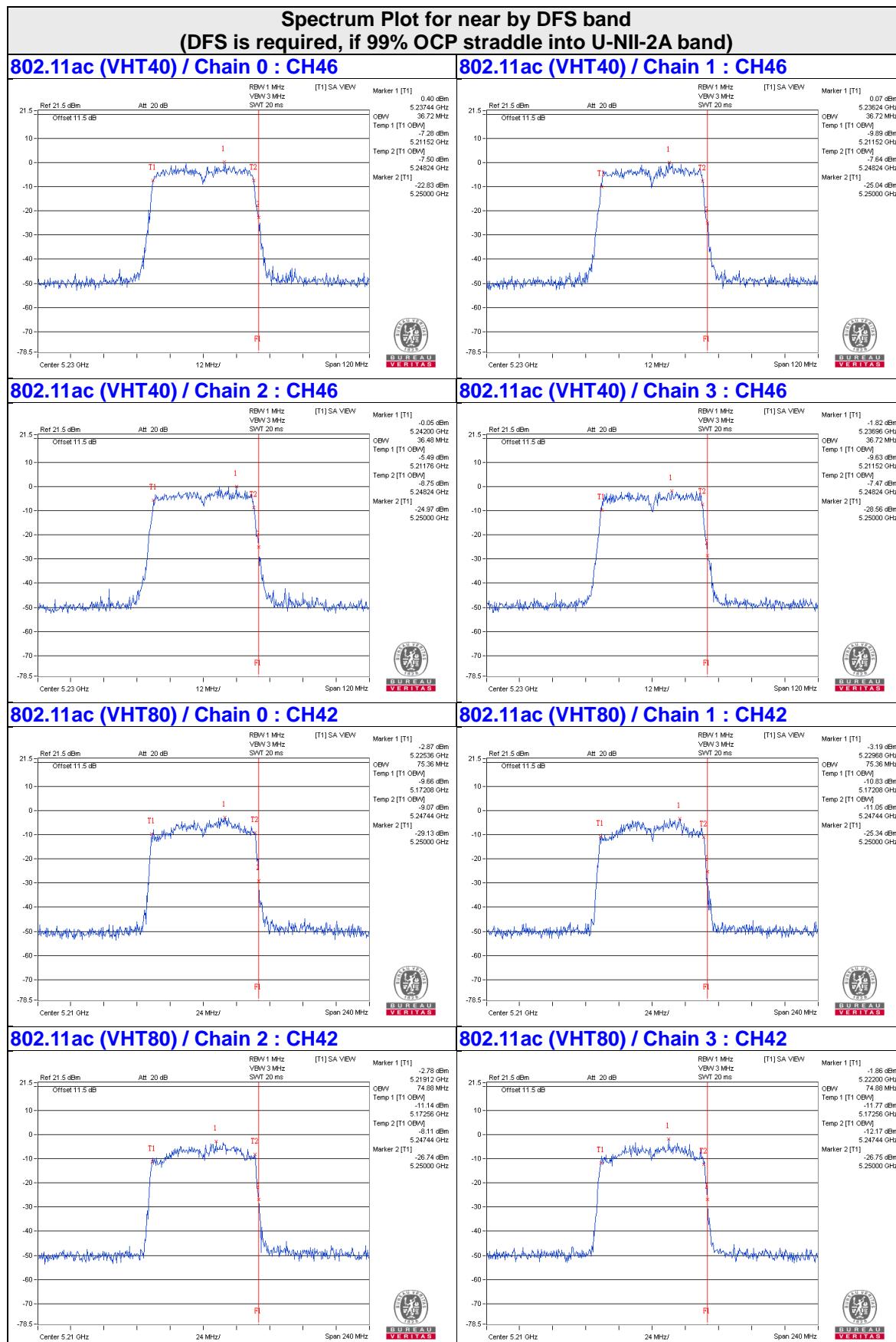
| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | | |
|---------|-------------------------|--------------------------|---------|---------|---------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 38 | 5190 | 36.72 | 36.72 | 36.72 | 36.72 |
| 46 | 5230 | 36.72 | 36.72 | 36.48 | 36.72 |
| 151 | 5755 | 37.20 | 36.96 | 37.44 | 36.72 |
| 159 | 5795 | 37.44 | 38.16 | 37.68 | 37.20 |

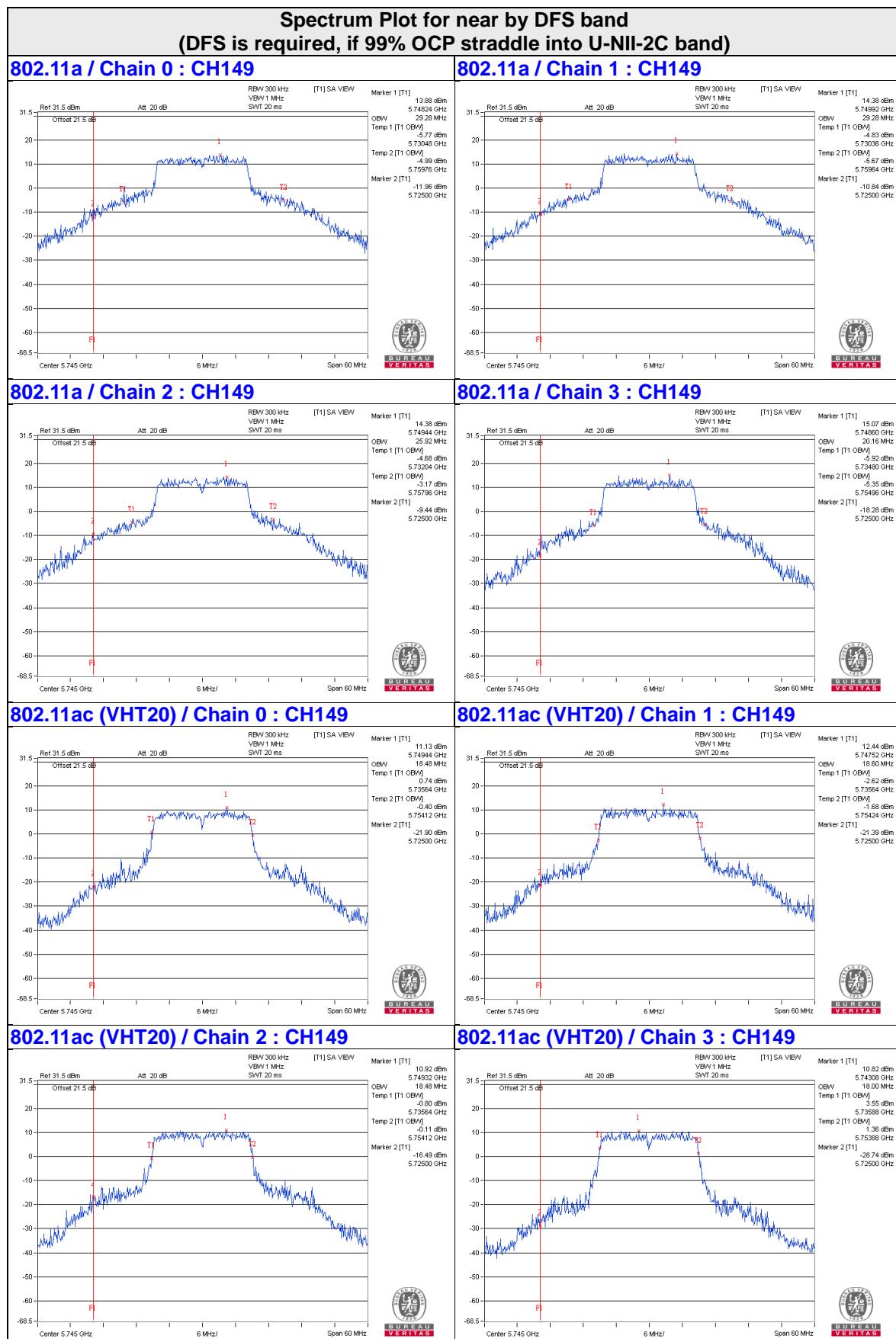
802.11ac (VHT80)

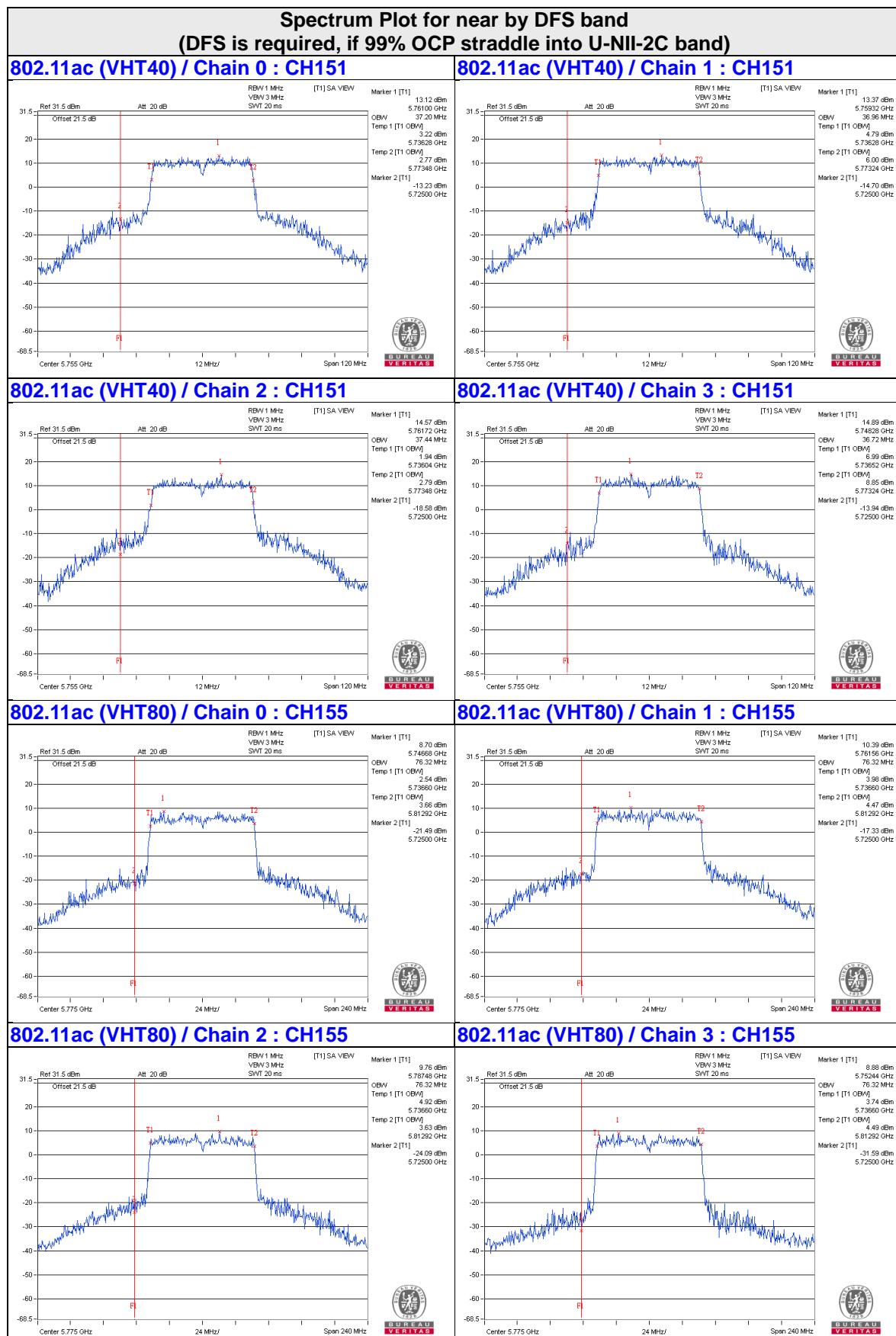
| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | | |
|---------|-------------------------|--------------------------|---------|---------|---------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 |
| 42 | 5210 | 75.36 | 75.36 | 74.88 | 74.88 |
| 155 | 5775 | 76.32 | 76.32 | 76.32 | 76.32 |











4.4.5 Test Results (Mode 2)

For U-NII-1:
802.11a

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | |
|---------|-------------------------|--------------------------|---------|---------|
| | | Chain 0 | Chain 2 | Chain 3 |
| 36 | 5180 | 17.04 | 16.92 | 16.92 |
| 40 | 5200 | 17.04 | 16.80 | 16.92 |
| 48 | 5240 | 16.80 | 16.80 | 17.04 |

802.11ac (VHT20)

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | |
|---------|-------------------------|--------------------------|---------|---------|
| | | Chain 0 | Chain 2 | Chain 3 |
| 36 | 5180 | 18.00 | 18.12 | 18.12 |
| 40 | 5200 | 18.00 | 18.00 | 18.24 |
| 48 | 5240 | 18.00 | 18.00 | 18.00 |

802.11ac (VHT40)

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | |
|---------|-------------------------|--------------------------|---------|---------|
| | | Chain 0 | Chain 2 | Chain 3 |
| 38 | 5190 | 36.72 | 36.72 | 36.72 |
| 46 | 5230 | 36.72 | 36.48 | 36.48 |

802.11ac (VHT80)

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | |
|---------|-------------------------|--------------------------|---------|---------|
| | | Chain 0 | Chain 2 | Chain 3 |
| 42 | 5210 | 74.88 | 74.88 | 74.88 |

For U-NII-3:
802.11a

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | |
|---------|-------------------------|--------------------------|---------|---------|
| | | Chain 1 | Chain 2 | Chain 3 |
| 149 | 5745 | 29.28 | 25.92 | 20.16 |
| 157 | 5785 | 29.40 | 26.88 | 21.60 |
| 165 | 5825 | 28.56 | 28.08 | 22.20 |

802.11ac (VHT20)

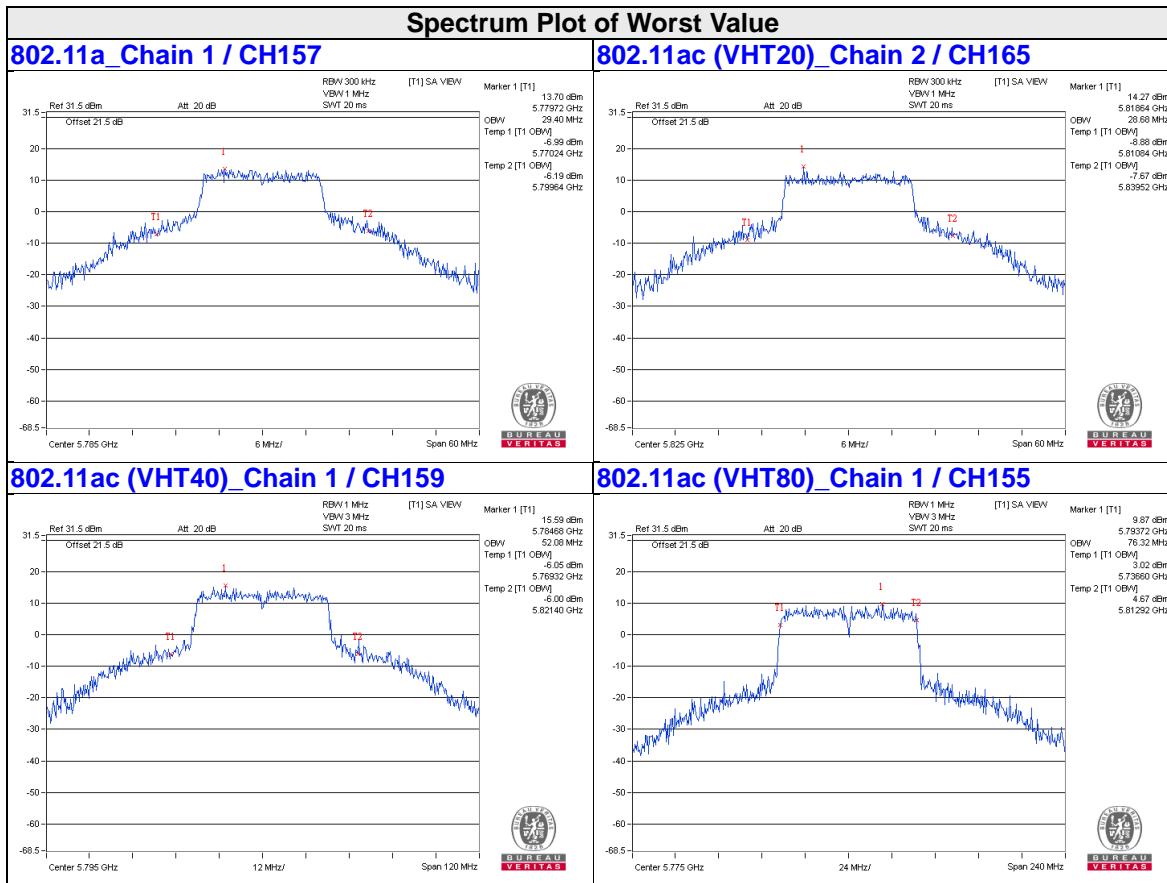
| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | |
|---------|-------------------------|--------------------------|---------|---------|
| | | Chain 1 | Chain 2 | Chain 3 |
| 149 | 5745 | 22.56 | 24.72 | 20.16 |
| 157 | 5785 | 24.24 | 27.60 | 20.88 |
| 165 | 5825 | 26.16 | 28.68 | 21.84 |

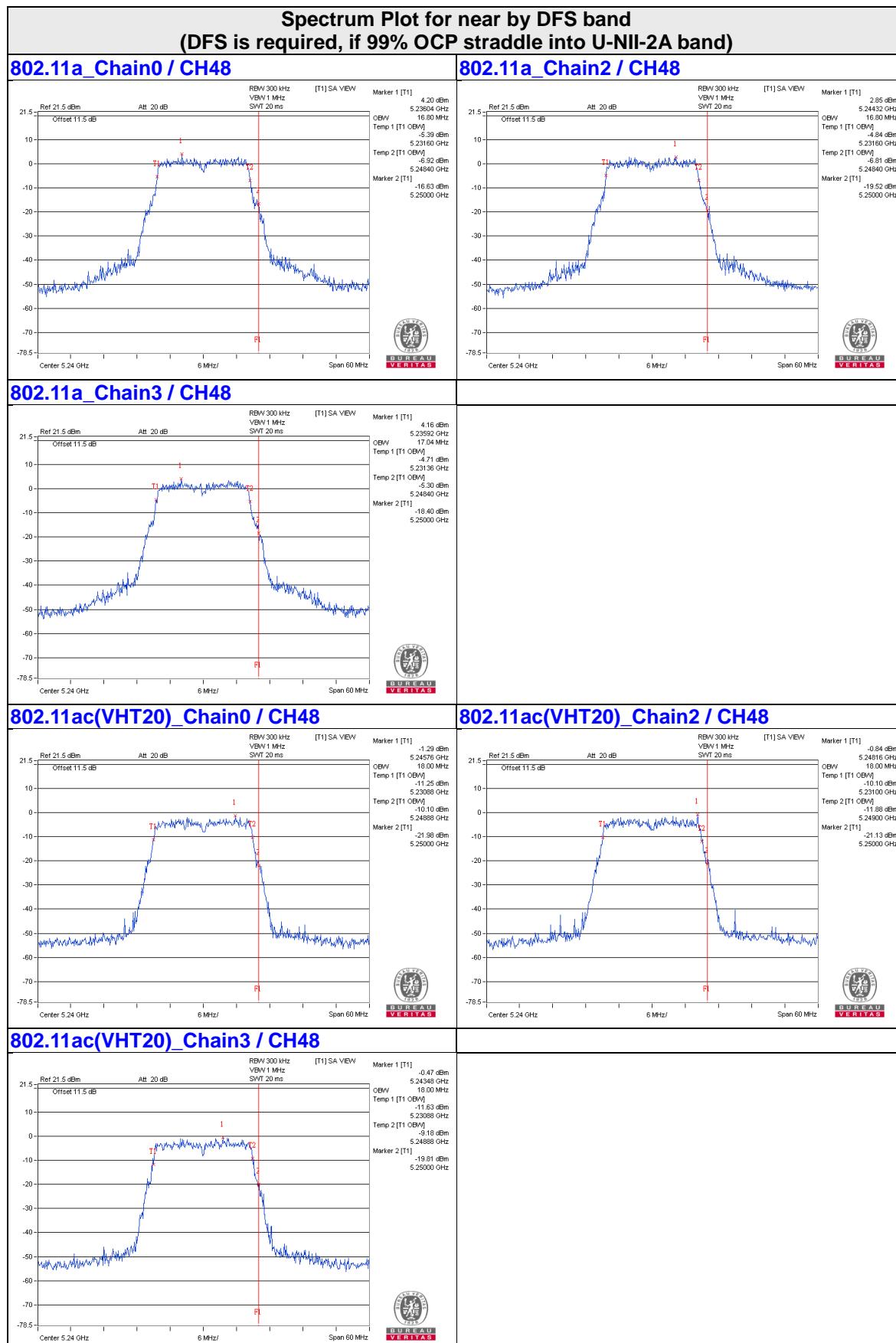
802.11ac (VHT40)

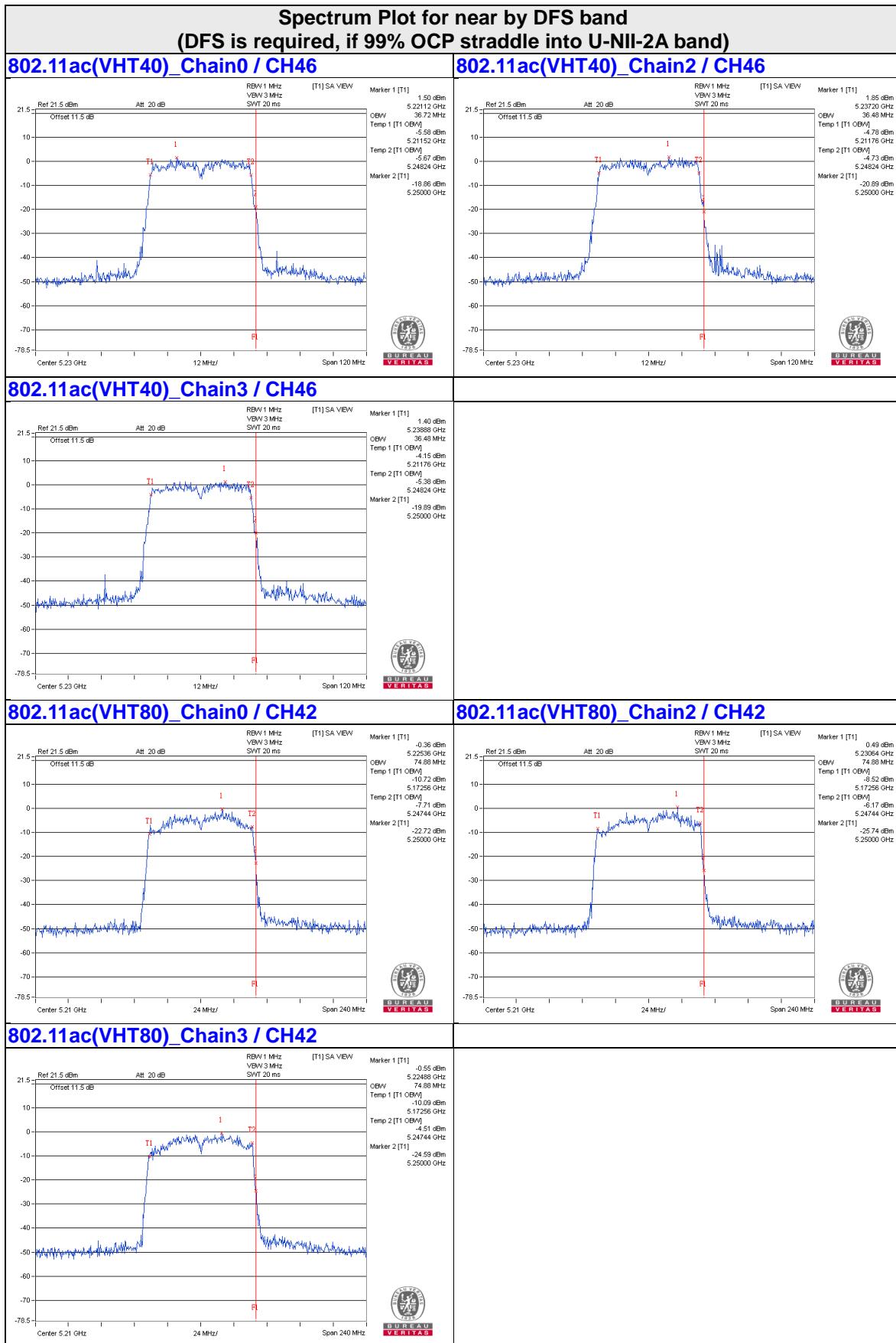
| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | |
|---------|-------------------------|--------------------------|---------|---------|
| | | Chain 1 | Chain 2 | Chain 3 |
| 151 | 5755 | 47.28 | 44.64 | 41.52 |
| 159 | 5795 | 52.08 | 51.12 | 43.68 |

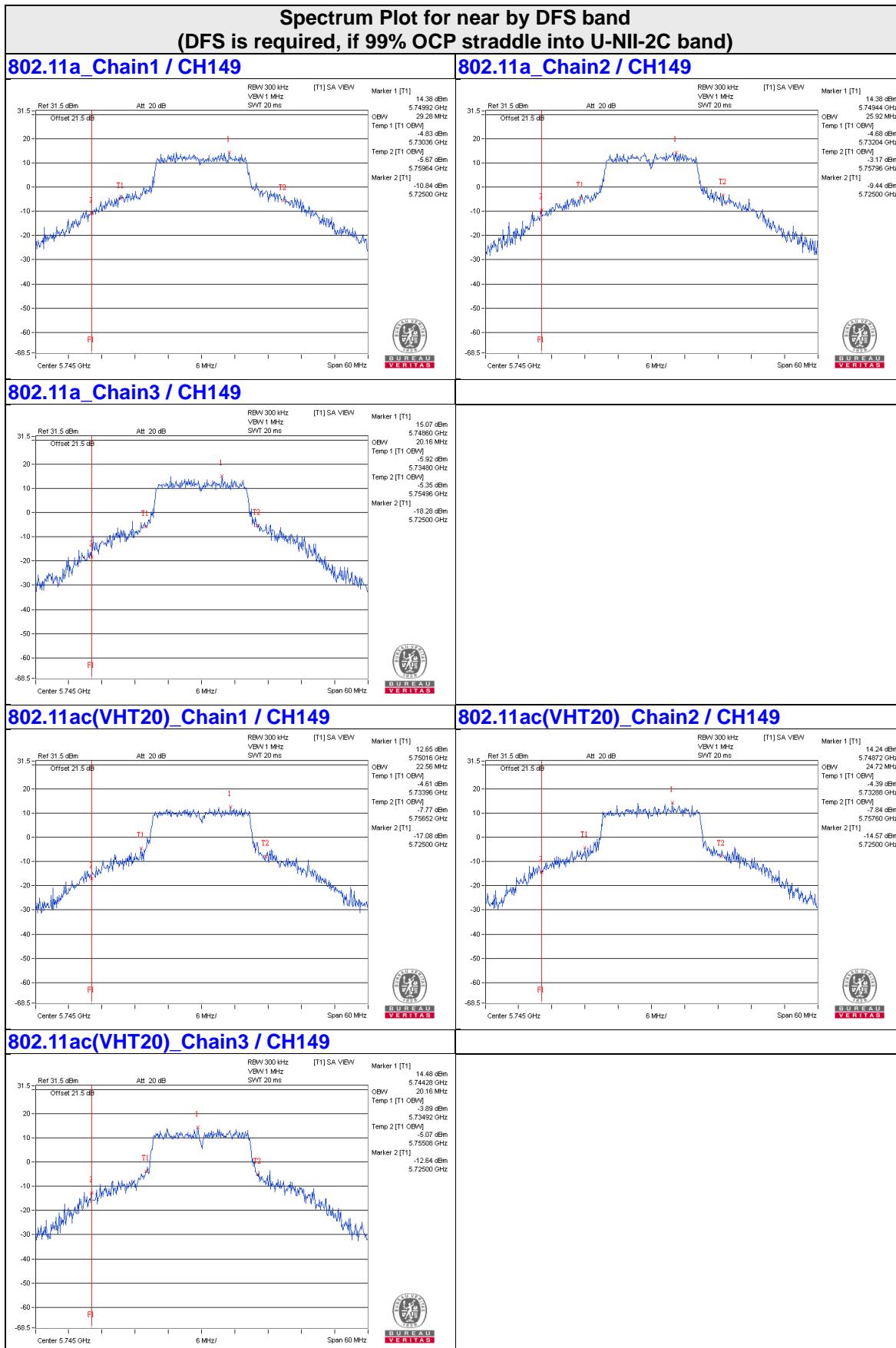
802.11ac (VHT80)

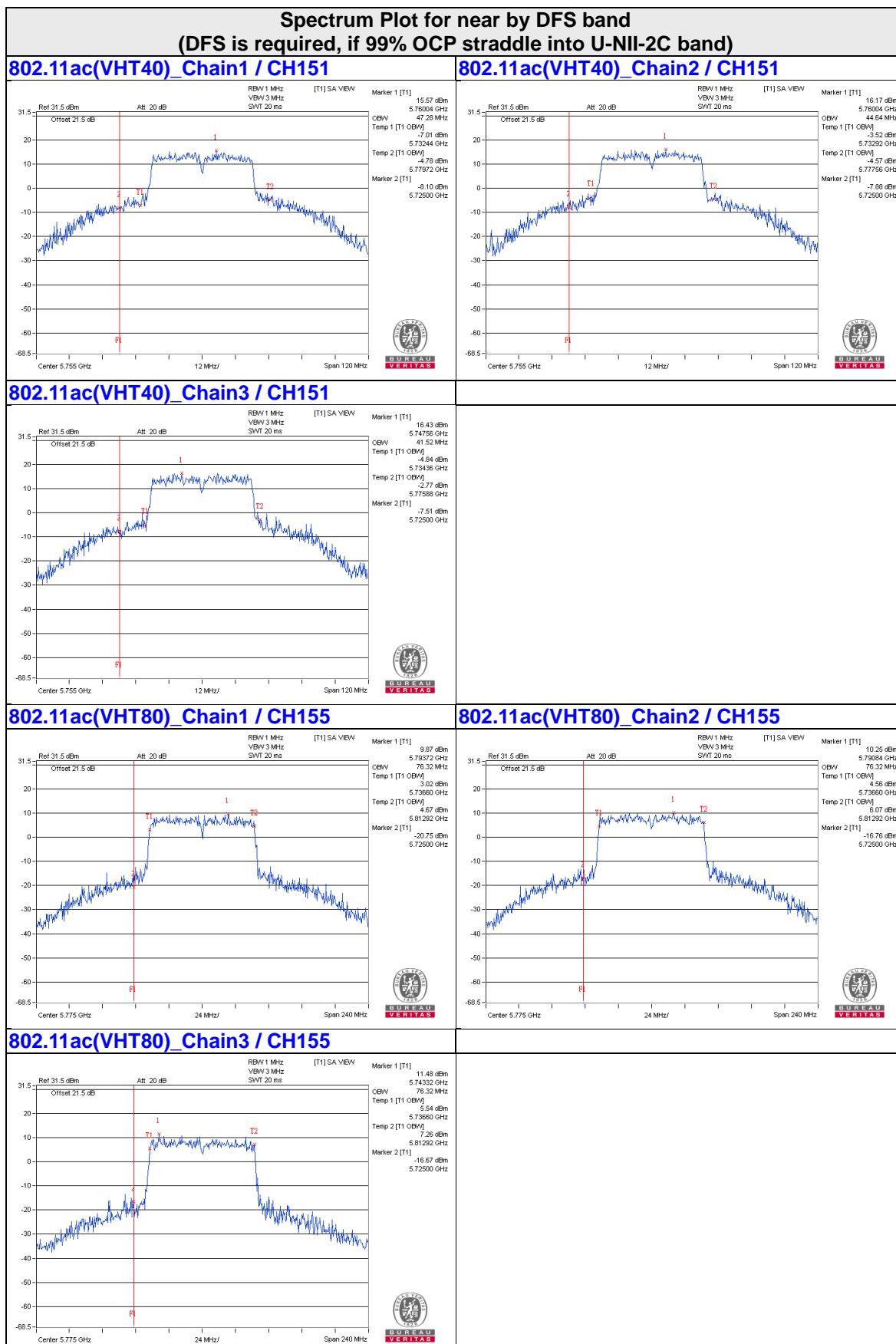
| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | | |
|---------|-------------------------|--------------------------|---------|---------|
| | | Chain 1 | Chain 2 | Chain 3 |
| 155 | 5775 | 76.32 | 76.32 | 76.32 |











4.4.6 Test Results (Mode 3)

For U-NII-1:

802.11a

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | |
|---------|-------------------------|--------------------------|---------|
| | | CHAIN 0 | CHAIN 2 |
| 36 | 5180 | 17.16 | 16.92 |
| 40 | 5200 | 17.16 | 16.92 |
| 48 | 5240 | 16.92 | 16.80 |

802.11ac (VHT20)

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | |
|---------|-------------------------|--------------------------|---------|
| | | CHAIN 0 | CHAIN 2 |
| 36 | 5180 | 17.88 | 18.12 |
| 40 | 5200 | 18.12 | 18.12 |
| 48 | 5240 | 18.00 | 18.00 |

802.11ac (VHT40)

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | |
|---------|-------------------------|--------------------------|---------|
| | | CHAIN 0 | CHAIN 2 |
| 38 | 5190 | 36.72 | 36.72 |
| 46 | 5230 | 36.48 | 36.72 |

802.11ac (VHT80)

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | |
|---------|-------------------------|--------------------------|---------|
| | | CHAIN 0 | CHAIN 2 |
| 42 | 5210 | 74.88 | 75.84 |

For U-NII-3:

802.11a

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | |
|---------|-------------------------|--------------------------|---------|
| | | CHAIN 2 | CHAIN 3 |
| 149 | 5745 | 25.92 | 20.16 |
| 157 | 5785 | 26.88 | 21.60 |
| 165 | 5825 | 28.08 | 22.20 |

802.11ac (VHT20)

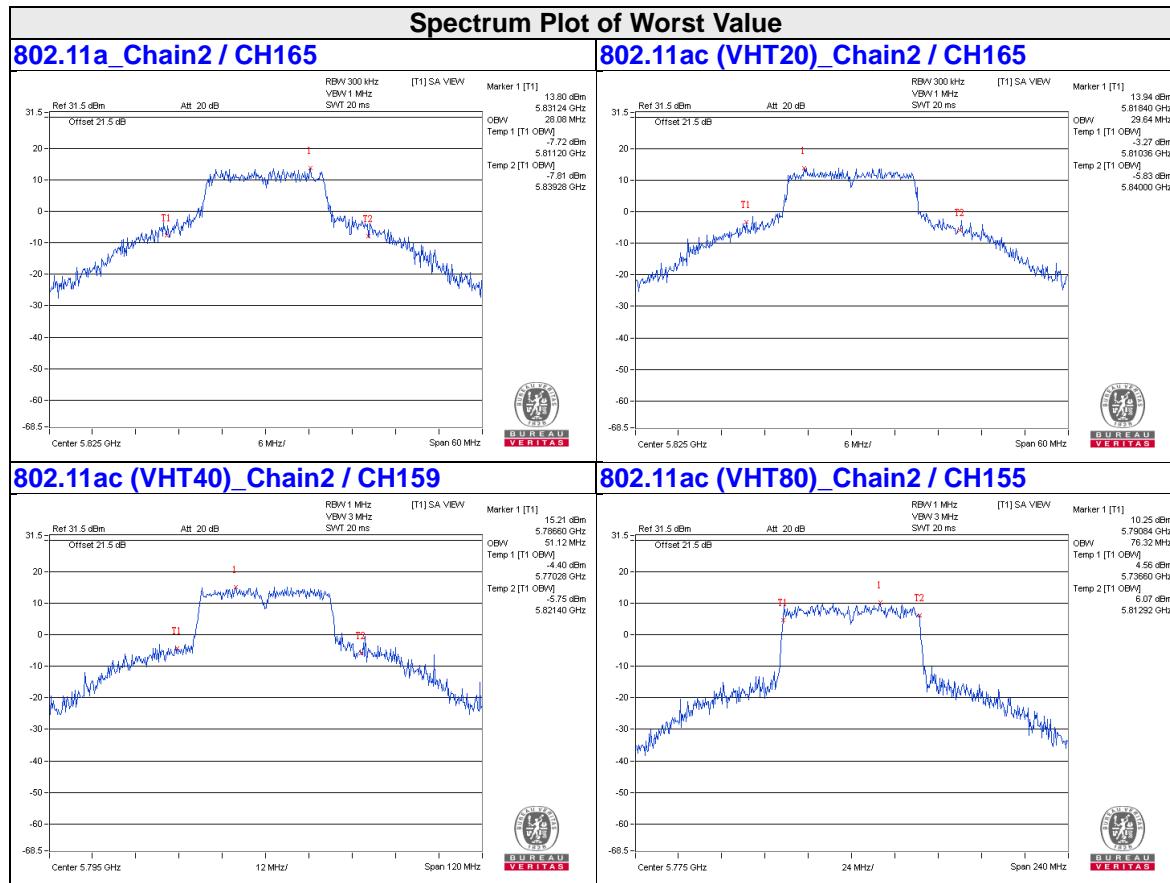
| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | |
|---------|-------------------------|--------------------------|---------|
| | | CHAIN 2 | CHAIN 3 |
| 149 | 5745 | 27.36 | 25.44 |
| 157 | 5785 | 29.64 | 26.16 |
| 165 | 5825 | 29.64 | 26.40 |

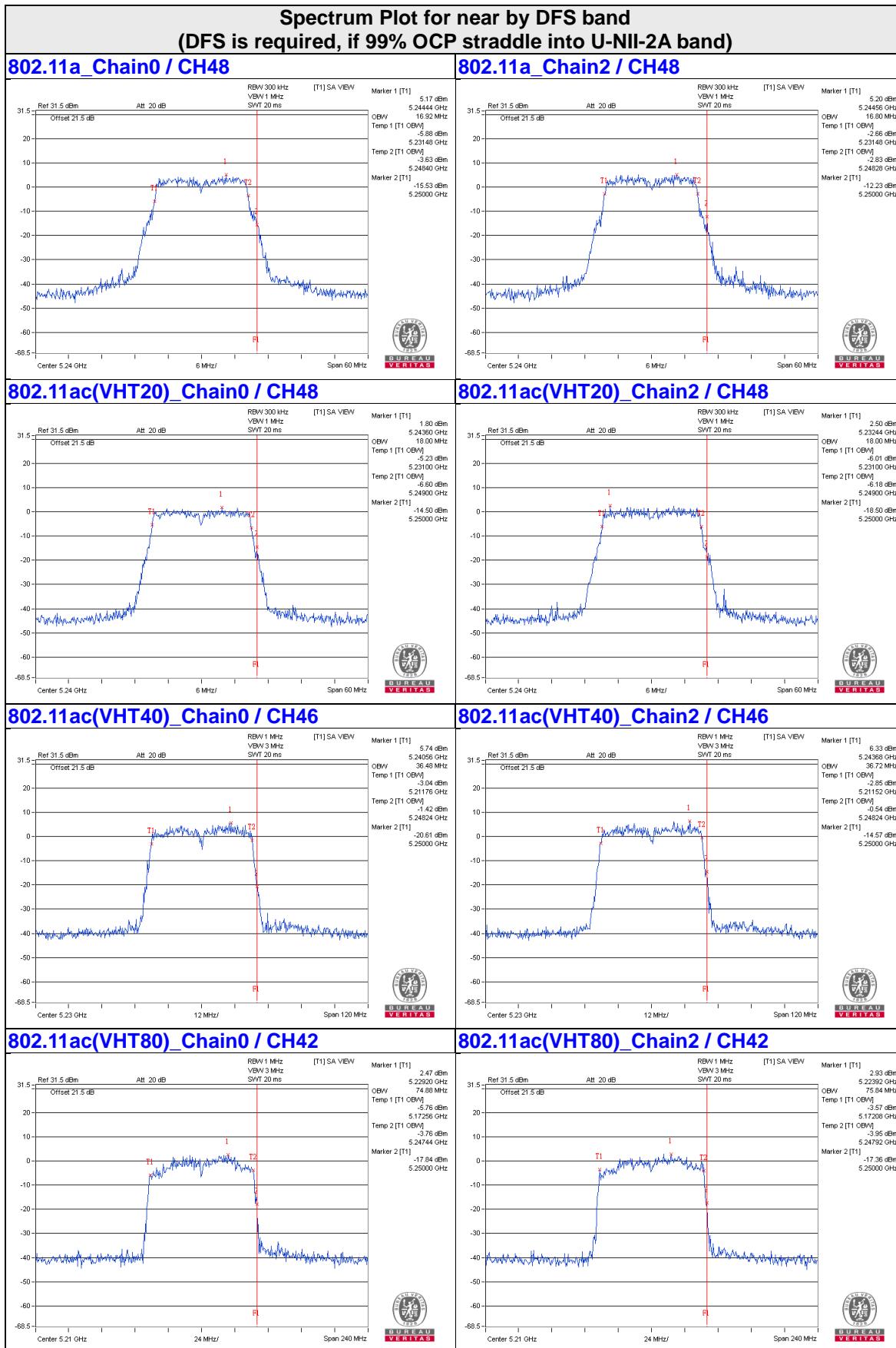
802.11ac (VHT40)

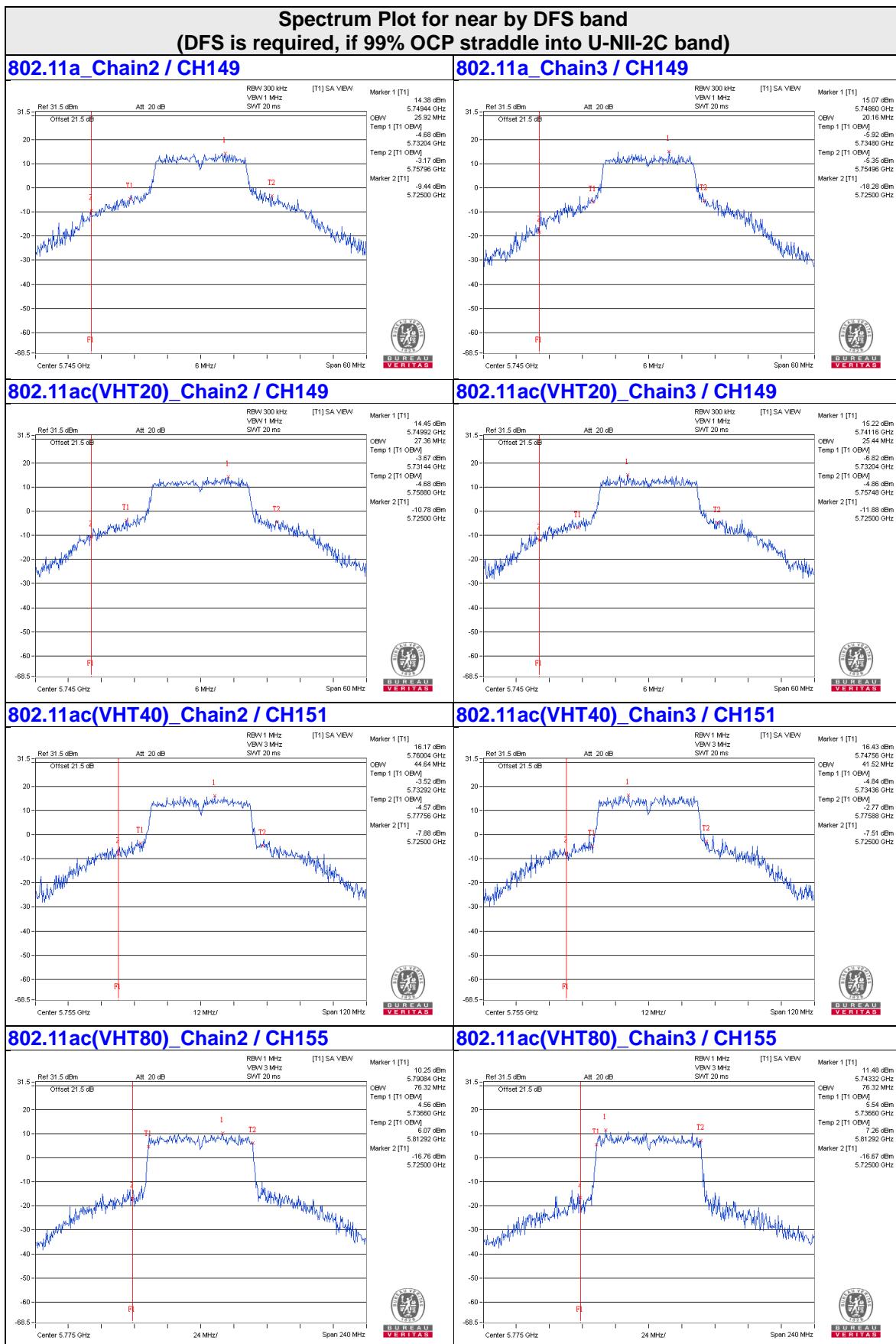
| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | |
|---------|-------------------------|--------------------------|---------|
| | | CHAIN 2 | CHAIN 3 |
| 151 | 5755 | 44.64 | 41.52 |
| 159 | 5795 | 51.12 | 43.68 |

802.11ac (VHT80)

| Channel | Channel Frequency (MHz) | Occupied Bandwidth (MHz) | |
|---------|-------------------------|--------------------------|---------|
| | | CHAIN 2 | CHAIN 3 |
| 155 | 5775 | 76.32 | 76.32 |







4.4.7 Test Results (Mode 4)

For U-NII-1:
802.11a

| Channel | Channel Frequency (MHz) | Chain 0 Occupied Bandwidth (MHz) |
|----------------|--------------------------------|---|
| 36 | 5180 | 16.92 |
| 40 | 5200 | 17.04 |
| 48 | 5240 | 16.92 |

802.11ac (VHT20)

| Channel | Channel Frequency (MHz) | Chain 0 Occupied Bandwidth (MHz) |
|----------------|--------------------------------|---|
| 36 | 5180 | 18.24 |
| 40 | 5200 | 18.12 |
| 48 | 5240 | 18.12 |

802.11ac (VHT40)

| Channel | Channel Frequency (MHz) | Chain 0 Occupied Bandwidth (MHz) |
|----------------|--------------------------------|---|
| 38 | 5190 | 36.72 |
| 46 | 5230 | 36.48 |

802.11ac (VHT80)

| Channel | Channel Frequency (MHz) | Chain 0 Occupied Bandwidth (MHz) |
|----------------|--------------------------------|---|
| 42 | 5210 | 74.88 |

For U-NII-3:
802.11a

| Channel | Channel Frequency (MHz) | Chain 2 Occupied Bandwidth (MHz) |
|----------------|--------------------------------|---|
| 149 | 5745 | 25.92 |
| 157 | 5785 | 26.88 |
| 165 | 5825 | 28.08 |

802.11ac (VHT20)

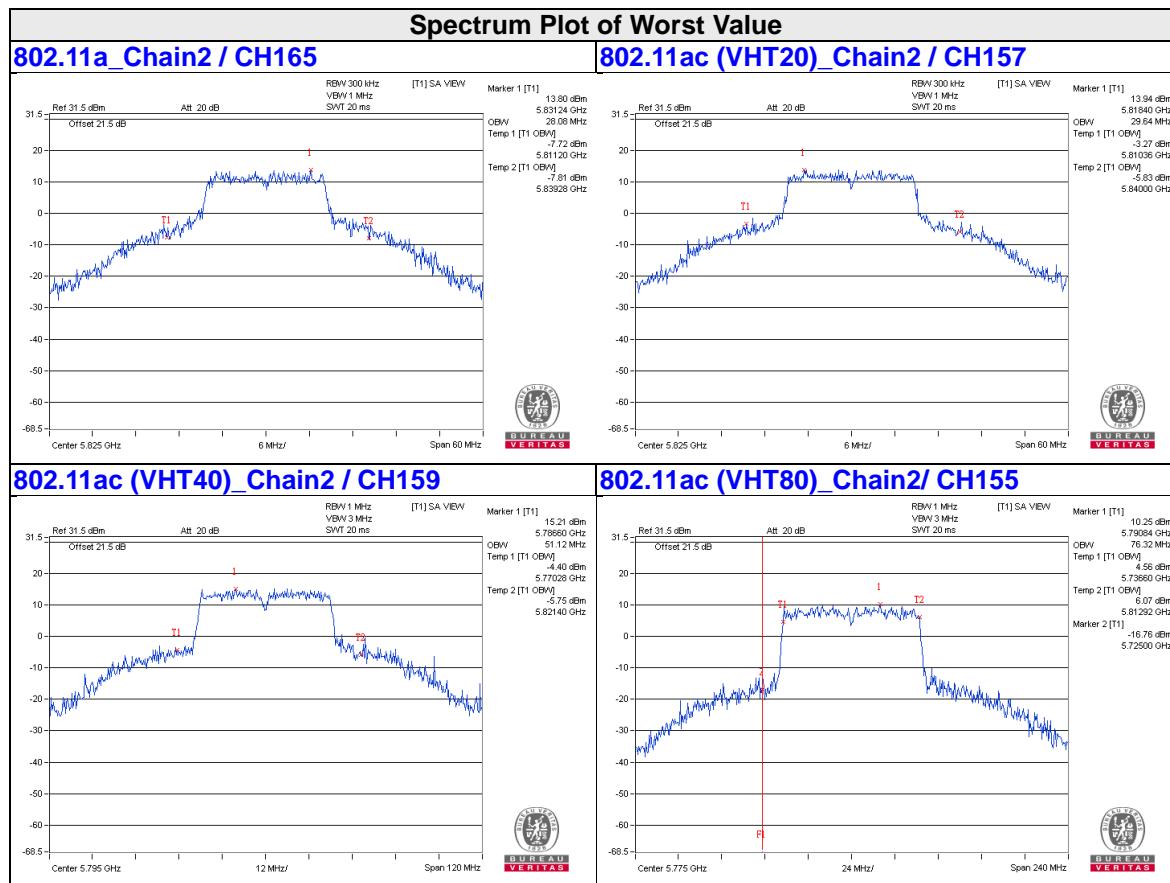
| Channel | Channel Frequency (MHz) | Chain 2 Occupied Bandwidth (MHz) |
|----------------|--------------------------------|---|
| 149 | 5745 | 27.36 |
| 157 | 5785 | 29.64 |
| 165 | 5825 | 29.64 |

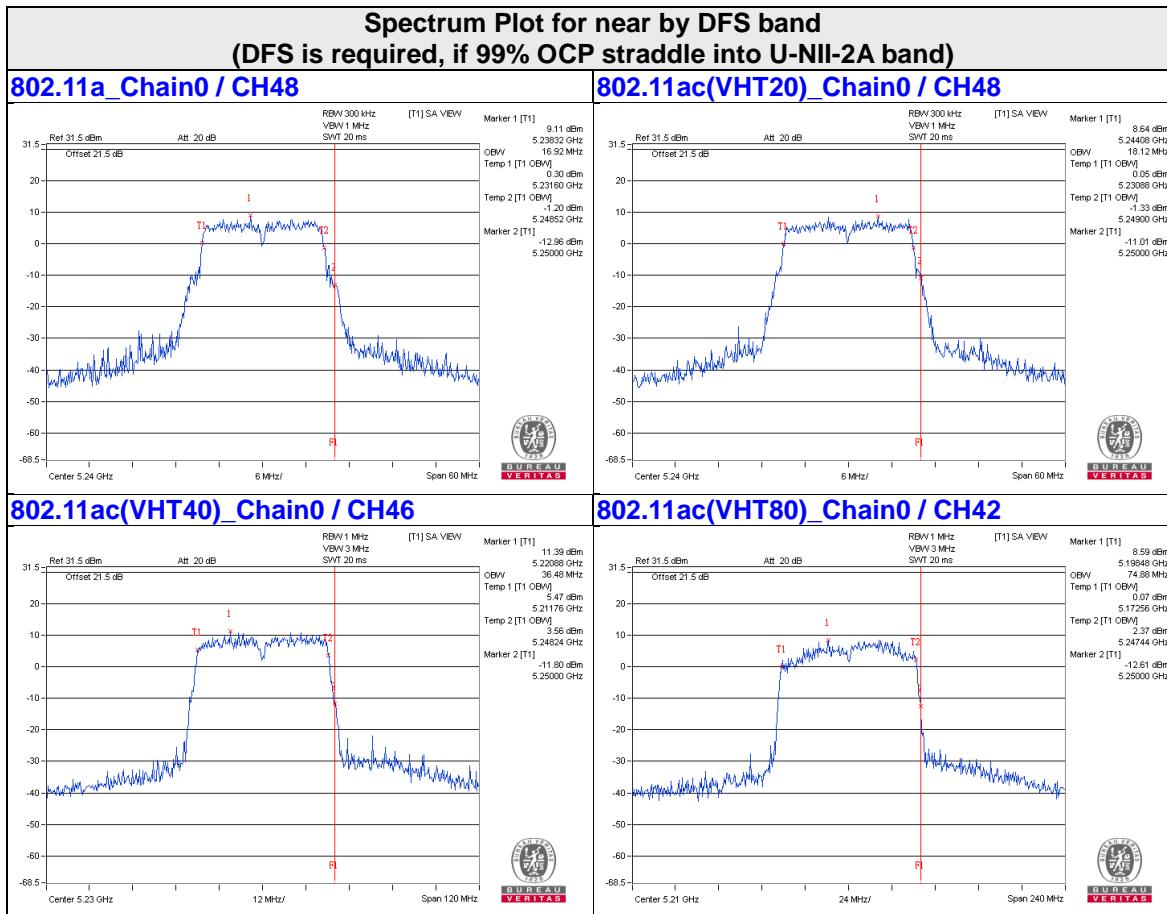
802.11ac (VHT40)

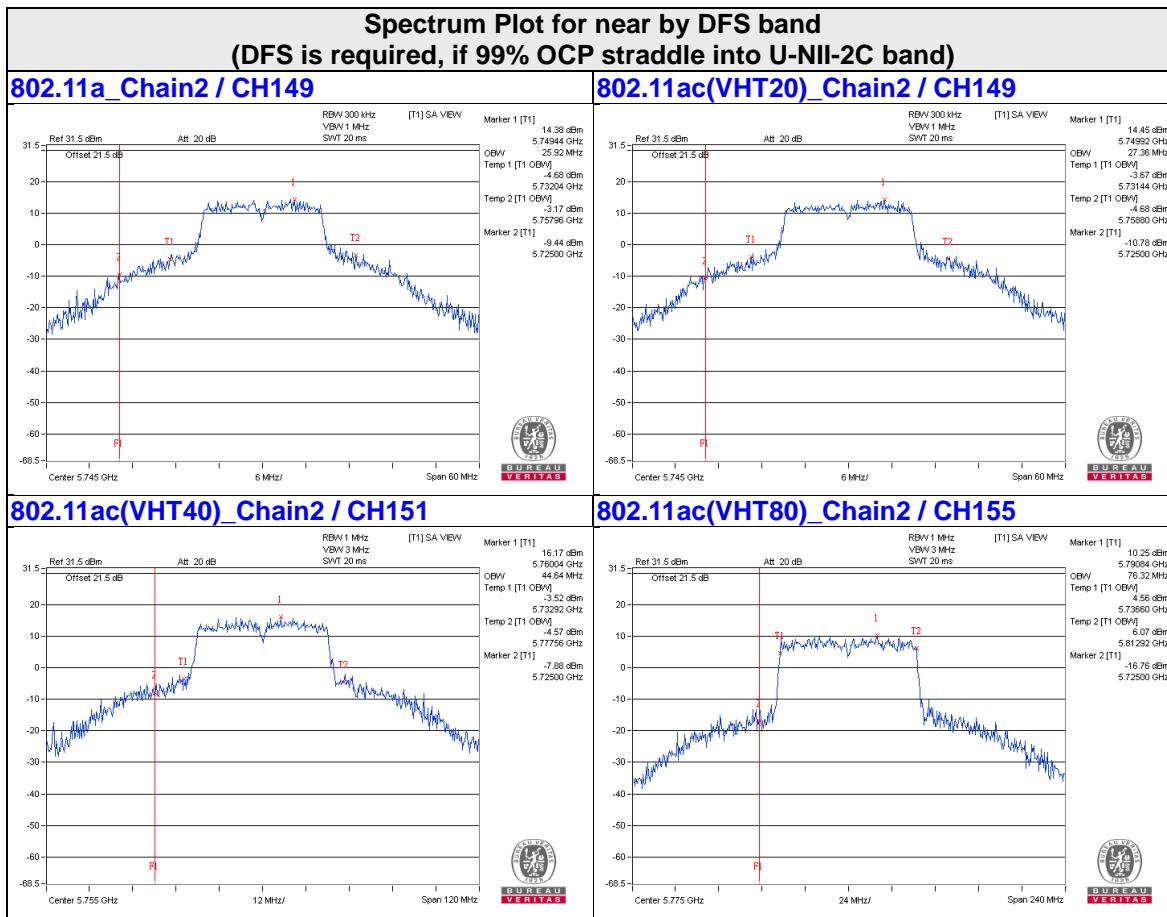
| Channel | Channel Frequency (MHz) | Chain 2 Occupied Bandwidth (MHz) |
|----------------|--------------------------------|---|
| 151 | 5755 | 44.64 |
| 159 | 5795 | 51.12 |

802.11ac (VHT80)

| Channel | Channel Frequency (MHz) | Chain 2 Occupied Bandwidth (MHz) |
|----------------|--------------------------------|---|
| 155 | 5775 | 76.32 |







4.5 Peak Power Spectral Density Measurement

4.5.1 Limits of Peak Power Spectral Density Measurement

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

4.5.2 Test Setup



4.5.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.5.4 Test Procedure

802.11a, 802.11ac (VHT20), 802.11ac (VHT40)

For U-NII-1:

Using method SA-1

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

For U-NII-3:

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

802.11ac (VHT80)

For U-NII-1:

Using method SA-2

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

For U-NII-3:

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

4.5.5 Deviation from Test Standard

No deviation.

4.5.6 EUT Operating Condition

Same as Item 4.3.6.

4.5.7 Test Results (Mode 1)

For U-NII-1:

802.11a

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | | | | Total Power Density (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|---------------|---------|---------|---------|-------------------------------------|-------------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | |
| 36 | 5180 | -1.94 | -2.32 | -2.08 | -2.13 | 3.91 | 12.43 | Pass |
| 40 | 5200 | -1.65 | -2.76 | -1.57 | -2.31 | 3.98 | 12.43 | Pass |
| 48 | 5240 | -1.89 | -3.26 | -2.31 | -2.27 | 3.62 | 12.43 | Pass |

- Note:**
- Method a) 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.
 - Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.57 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $17 - (10.57 - 6) = 12.43 \text{dBm}$.

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | | | | Total Power Density (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|---------------|---------|---------|---------|-------------------------------------|-------------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | |
| 36 | 5180 | -7.34 | -8.13 | -8.07 | -8.30 | -1.92 | 12.43 | Pass |
| 40 | 5200 | -7.89 | -8.10 | -7.71 | -8.30 | -1.97 | 12.43 | Pass |
| 48 | 5240 | -7.98 | -8.02 | -7.93 | -8.31 | -2.04 | 12.43 | Pass |

- Note:**
- Method a) 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.
 - Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.57 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $17 - (10.57 - 6) = 12.43 \text{dBm}$.

802.11ac (VHT40)

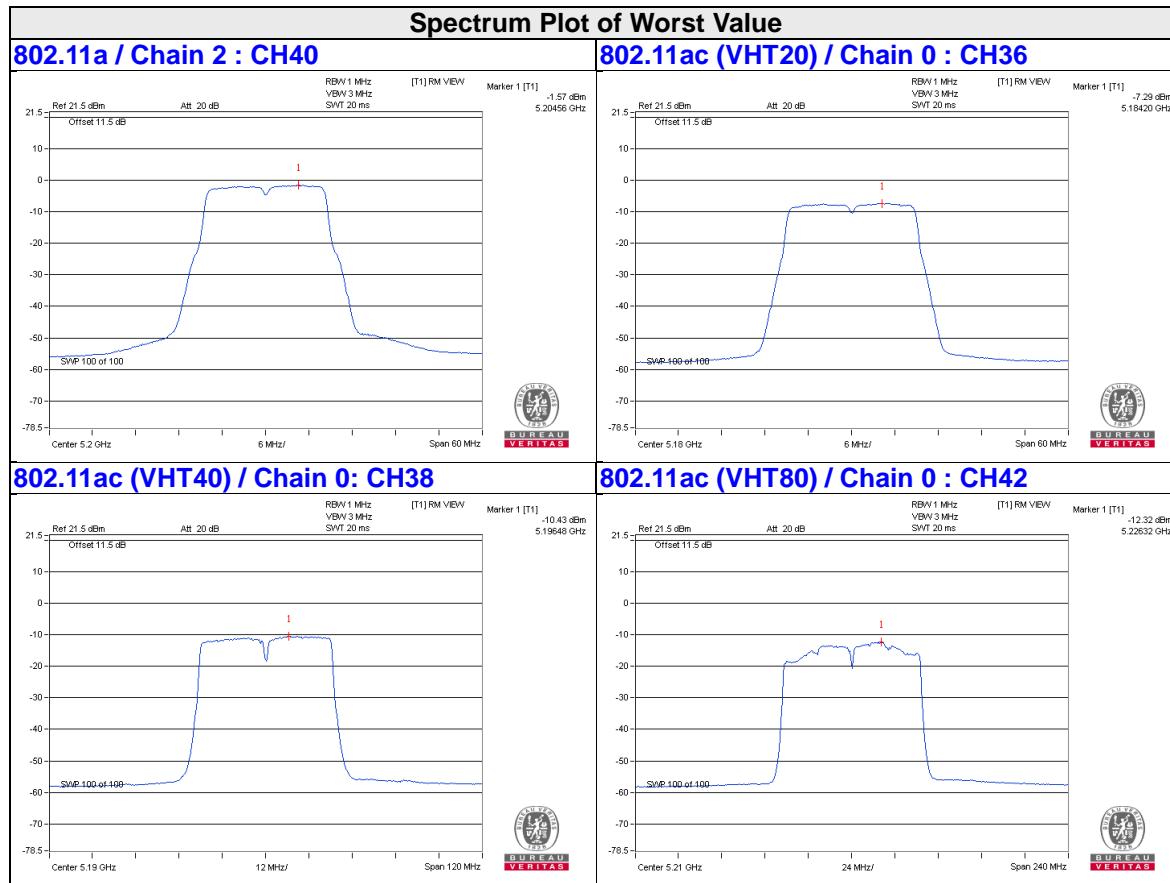
| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | | | | Total Power Density (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|---------------|---------|---------|---------|----------------------------------|-------------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | |
| 38 | 5190 | -10.43 | -10.66 | -10.91 | -11.10 | -4.75 | 12.43 | Pass |
| 46 | 5230 | -10.87 | -11.20 | -10.92 | -11.61 | -5.12 | 12.43 | Pass |

- Note:**
- Method a) 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.
 - Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.57 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $17 - (10.57 - 6) = 12.43 \text{dBm}$.

802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor (dBm) | | | | Duty Factor (dB) | Total PSD With Duty Factor (dBm) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|-------------------------|---------------------------|---------|---------|---------|---------------------|----------------------------------|-------------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | | | |
| 42 | 5210 | -12.35 | -13.15 | -12.67 | -12.96 | 0.27 | -6.48 | 12.43 | Pass |

- Note:**
- Method a) 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.
 - Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.57 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $17 - (10.57 - 6) = 12.43 \text{dBm}$.
 - Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3:
802.11a

| TX chain | Channel | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=4) dB | Total PSD (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|---------|----------------|---------------------|---------------------|--------------------|---------------------------|-----------------------|---------------|
| 0 | 149 | 5745 | 1.70 | 3.92 | 6.02 | 9.94 | 25.24 | Pass |
| | 157 | 5785 | 1.30 | 3.52 | 6.02 | 9.54 | 25.24 | Pass |
| | 165 | 5825 | 0.79 | 3.01 | 6.02 | 9.03 | 25.24 | Pass |
| 1 | 149 | 5745 | 2.23 | 4.45 | 6.02 | 10.47 | 25.24 | Pass |
| | 157 | 5785 | 2.33 | 4.55 | 6.02 | 10.57 | 25.24 | Pass |
| | 165 | 5825 | 1.67 | 3.89 | 6.02 | 9.91 | 25.24 | Pass |
| 2 | 149 | 5745 | 1.74 | 3.96 | 6.02 | 9.98 | 25.24 | Pass |
| | 157 | 5785 | 1.28 | 3.50 | 6.02 | 9.52 | 25.24 | Pass |
| | 165 | 5825 | 1.68 | 3.90 | 6.02 | 9.92 | 25.24 | Pass |
| 3 | 149 | 5745 | 1.68 | 3.90 | 6.02 | 9.92 | 25.24 | Pass |
| | 157 | 5785 | 2.22 | 4.44 | 6.02 | 10.46 | 25.24 | Pass |
| | 165 | 5825 | 2.48 | 4.70 | 6.02 | 10.72 | 25.24 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.76 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $30 - (10.76 - 6) = 25.24 \text{dBm}$.

802.11ac (VHT20)

| TX chain | Channel | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=4) dB | Total PSD (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|---------|----------------|---------------------|---------------------|--------------------|---------------------------|-----------------------|---------------|
| 0 | 149 | 5745 | -1.97 | 0.25 | 6.02 | 6.27 | 25.24 | Pass |
| | 157 | 5785 | -2.04 | 0.18 | 6.02 | 6.20 | 25.24 | Pass |
| | 165 | 5825 | -2.20 | 0.02 | 6.02 | 6.04 | 25.24 | Pass |
| 1 | 149 | 5745 | -0.98 | 1.24 | 6.02 | 7.26 | 25.24 | Pass |
| | 157 | 5785 | -1.51 | 0.71 | 6.02 | 6.73 | 25.24 | Pass |
| | 165 | 5825 | -1.59 | 0.63 | 6.02 | 6.65 | 25.24 | Pass |
| 2 | 149 | 5745 | -1.05 | 1.17 | 6.02 | 7.19 | 25.24 | Pass |
| | 157 | 5785 | -1.61 | 0.61 | 6.02 | 6.63 | 25.24 | Pass |
| | 165 | 5825 | -1.91 | 0.31 | 6.02 | 6.33 | 25.24 | Pass |
| 3 | 149 | 5745 | -1.68 | 0.54 | 6.02 | 6.56 | 25.24 | Pass |
| | 157 | 5785 | -1.55 | 0.67 | 6.02 | 6.69 | 25.24 | Pass |
| | 165 | 5825 | -1.43 | 0.79 | 6.02 | 6.81 | 25.24 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.76 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $30 - (10.76 - 6) = 25.24 \text{dBm}$.

802.11ac (VHT40)

| TX chain | Channel | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=4) dB | Total PSD (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|---------|----------------|---------------------|---------------------|--------------------|---------------------------|-----------------------|---------------|
| 0 | 151 | 5755 | -5.16 | -2.94 | 6.02 | 3.08 | 25.24 | Pass |
| | 159 | 5795 | -5.64 | -3.42 | 6.02 | 2.60 | 25.24 | Pass |
| 1 | 151 | 5755 | -5.24 | -3.02 | 6.02 | 3.00 | 25.24 | Pass |
| | 159 | 5795 | -4.58 | -2.36 | 6.02 | 3.66 | 25.24 | Pass |
| 2 | 151 | 5755 | -5.04 | -2.82 | 6.02 | 3.20 | 25.24 | Pass |
| | 159 | 5795 | -4.67 | -2.45 | 6.02 | 3.57 | 25.24 | Pass |
| 3 | 151 | 5755 | -4.79 | -2.57 | 6.02 | 3.45 | 25.24 | Pass |
| | 159 | 5795 | -5.07 | -2.85 | 6.02 | 3.17 | 25.24 | Pass |

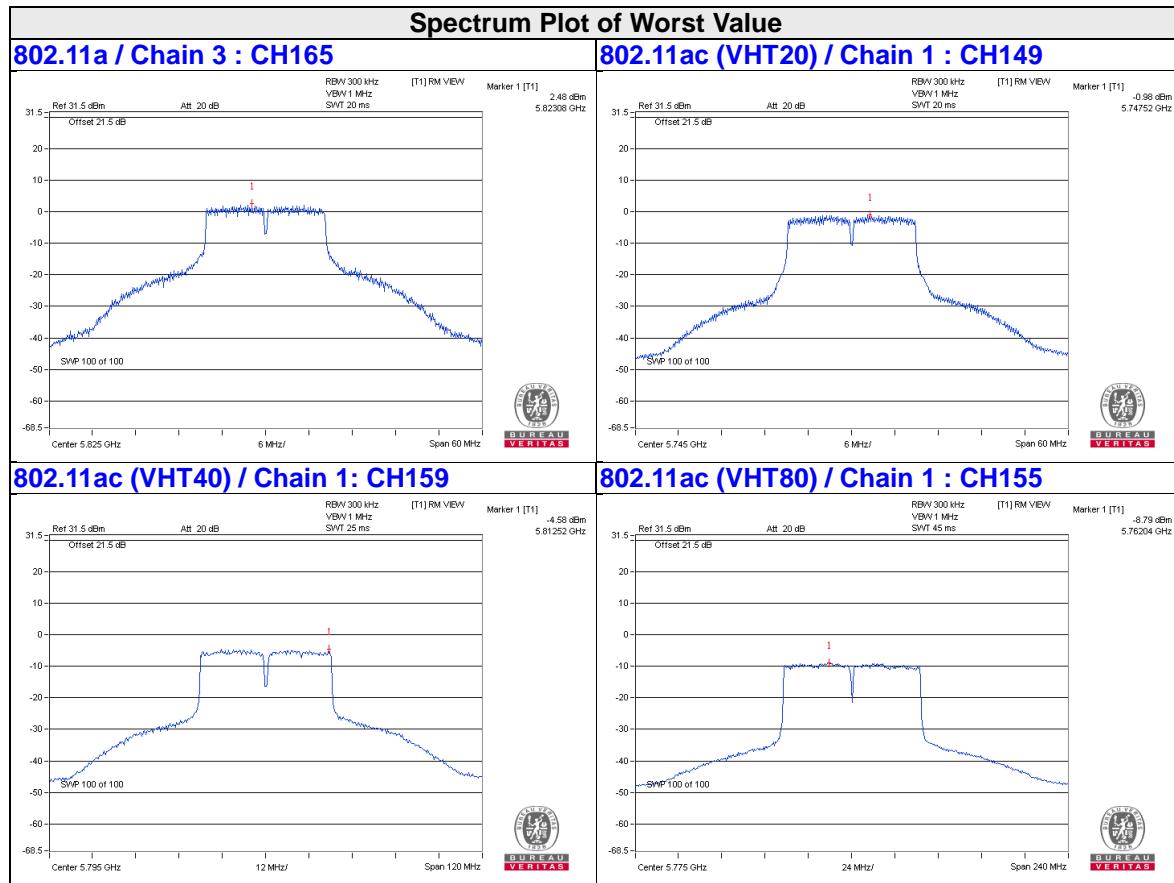
Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.76 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $30 - (10.76 - 6) = 25.24 \text{dBm}$.

802.11ac (VHT80)

| TX chain | Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor | | 10 log (N=4) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|-------|-------------------------|---------------------|--------------|--------------------|---------------------|---|-----------------------|---------------|
| | | | (dBm/300kHz) | (dBm/500kHz) | | | | | |
| 0 | 155 | 5775 | -9.29 | -7.07 | 6.02 | 0.27 | -0.78 | 25.24 | Pass |
| 1 | 155 | 5775 | -8.79 | -6.57 | 6.02 | 0.27 | -0.28 | 25.24 | Pass |
| 2 | 155 | 5775 | -9.76 | -7.54 | 6.02 | 0.27 | -1.25 | 25.24 | Pass |
| 3 | 155 | 5775 | -9.97 | -7.75 | 6.02 | 0.27 | -1.46 | 25.24 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G0/20} + 10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 4] = 10.76 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $30 - (10.76 - 6) = 25.24 \text{dBm}$.

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



4.5.8 Test Results (Mode 2)

For U-NII-1:

802.11a

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | | | Total Power Density (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|---------------|---------|---------|-------------------------------------|-------------------------|-------------|
| | | Chain 0 | Chain 2 | Chain 3 | | | |
| 36 | 5180 | -1.41 | -0.85 | -0.22 | 3.97 | 13.57 | Pass |
| 40 | 5200 | -1.32 | -1.00 | -0.93 | 3.69 | 13.57 | Pass |
| 48 | 5240 | -1.12 | -1.37 | -0.37 | 3.84 | 13.57 | Pass |

- Note:** 1. Method a) 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. Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.43\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(9.43-6) = 13.57\text{dBm}$.

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | | | Total Power Density (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|---------------|---------|---------|-------------------------------------|-------------------------|-------------|
| | | Chain 0 | Chain 2 | Chain 3 | | | |
| 36 | 5180 | -6.00 | -5.99 | -4.68 | -0.74 | 13.57 | Pass |
| 40 | 5200 | -5.96 | -5.89 | -5.37 | -0.96 | 13.57 | Pass |
| 48 | 5240 | -6.08 | -5.96 | -4.90 | -0.84 | 13.57 | Pass |

- Note:** 1. Method a) 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. Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.43\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17-(9.43-6) = 13.57\text{dBm}$.

802.11ac (VHT40)

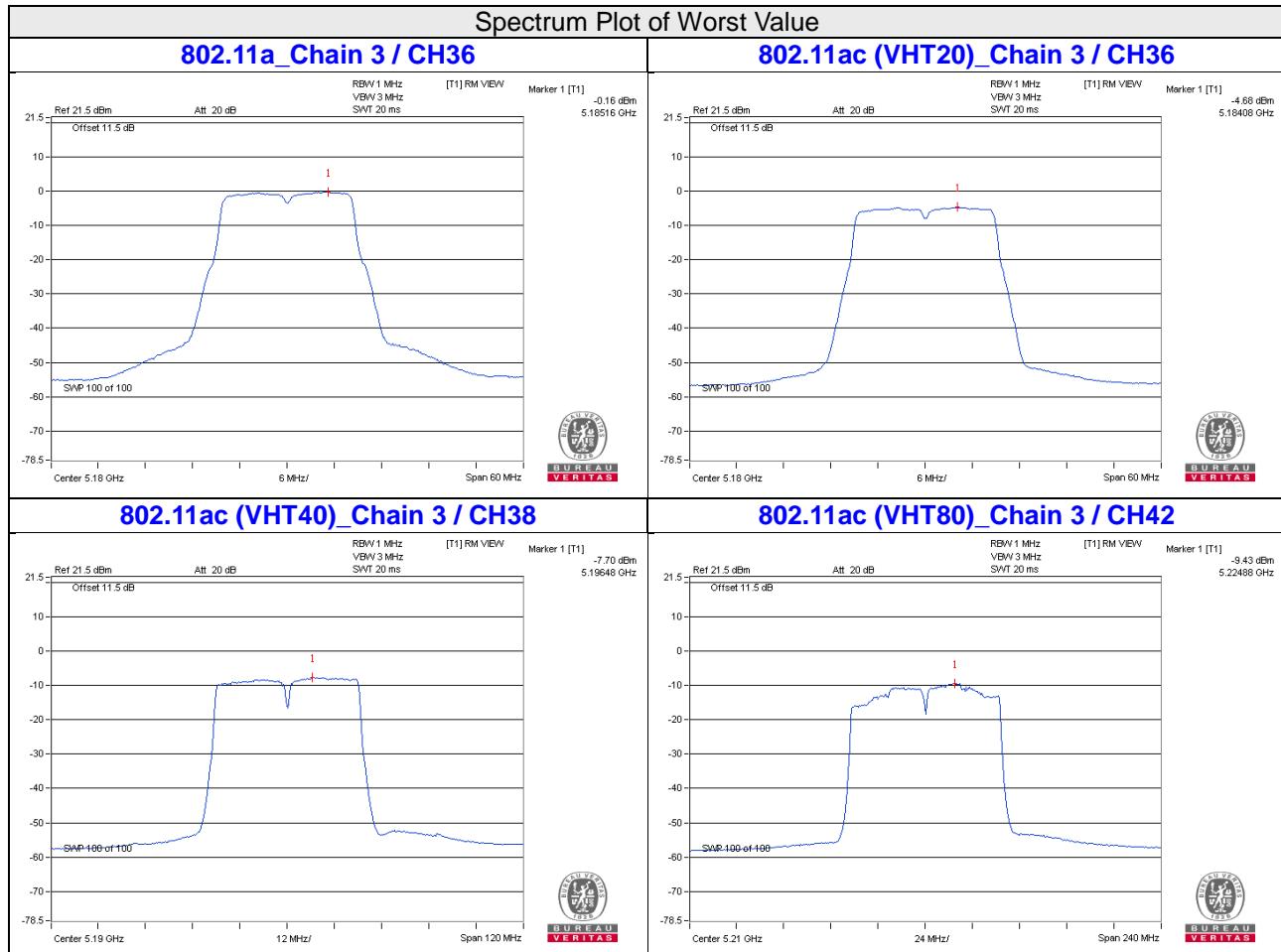
| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | | | Total Power Density (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|---------------|---------|---------|----------------------------------|-------------------------|-------------|
| | | Chain 0 | Chain 2 | Chain 3 | | | |
| 38 | 5190 | -8.80 | -8.99 | -7.76 | -3.71 | 13.57 | Pass |
| 46 | 5230 | -8.70 | -8.69 | -8.27 | -3.78 | 13.57 | Pass |

- Note:**
- Method a) 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.
 - Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.43\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (9.43 - 6) = 13.57\text{dBm}$.

802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor (dBm/MHz) | | | Duty Factor (dB) | Total PSD With Duty Factor (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|-------------------------|-------------------------------|---------|---------|---------------------|---|-------------------------|-------------|
| | | Chain 0 | Chain 2 | Chain 3 | | | | |
| 42 | 5210 | -10.51 | -10.67 | -9.43 | 0.27 | -5.12 | 13.57 | Pass |

- Note:**
- Method a) 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.
 - Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.43\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $17 - (9.43 - 6) = 13.57\text{dBm}$.
 - Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3:
802.11a

| TX chain | Channel | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=3) dB | Total PSD (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|---------|----------------|---------------------|---------------------|--------------------|---------------------------|-----------------------|---------------|
| 1 | 149 | 5745 | 2.23 | 4.45 | 4.77 | 9.22 | 26.38 | Pass |
| | 157 | 5785 | 2.33 | 4.55 | 4.77 | 9.32 | 26.38 | Pass |
| | 165 | 5825 | 1.67 | 3.89 | 4.77 | 8.66 | 26.38 | Pass |
| 2 | 149 | 5745 | 1.74 | 3.96 | 4.77 | 8.73 | 26.38 | Pass |
| | 157 | 5785 | 1.28 | 3.50 | 4.77 | 8.27 | 26.38 | Pass |
| | 165 | 5825 | 1.68 | 3.90 | 4.77 | 8.67 | 26.38 | Pass |
| 3 | 149 | 5745 | 1.68 | 3.90 | 4.77 | 8.67 | 26.38 | Pass |
| | 157 | 5785 | 2.22 | 4.44 | 4.77 | 9.21 | 26.38 | Pass |
| | 165 | 5825 | 2.48 | 4.70 | 4.77 | 9.47 | 26.38 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.62 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $30 - (9.62 - 6) = 26.38 \text{dBm}$.

802.11ac (VHT20)

| TX chain | Channel | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=3) dB | Total PSD (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|---------|----------------|---------------------|---------------------|--------------------|---------------------------|-----------------------|---------------|
| 1 | 149 | 5745 | 0.45 | 2.67 | 4.77 | 7.44 | 26.38 | Pass |
| | 157 | 5785 | 0.21 | 2.43 | 4.77 | 7.20 | 26.38 | Pass |
| | 165 | 5825 | 0.05 | 2.27 | 4.77 | 7.04 | 26.38 | Pass |
| 2 | 149 | 5745 | 1.02 | 3.24 | 4.77 | 8.01 | 26.38 | Pass |
| | 157 | 5785 | 1.15 | 3.37 | 4.77 | 8.14 | 26.38 | Pass |
| | 165 | 5825 | 0.77 | 2.99 | 4.77 | 7.76 | 26.38 | Pass |
| 3 | 149 | 5745 | 1.47 | 3.69 | 4.77 | 8.46 | 26.38 | Pass |
| | 157 | 5785 | 1.54 | 3.76 | 4.77 | 8.53 | 26.38 | Pass |
| | 165 | 5825 | 1.34 | 3.56 | 4.77 | 8.33 | 26.38 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.62 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $30 - (9.62 - 6) = 26.38 \text{dBm}$.

802.11ac (VHT40)

| TX chain | Channel | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=3) dB | Total PSD (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|---------|----------------|---------------------|---------------------|--------------------|---------------------------|-----------------------|---------------|
| 1 | 151 | 5755 | -2.68 | -0.46 | 4.77 | 4.31 | 26.38 | Pass |
| | 159 | 5795 | -3.06 | -0.84 | 4.77 | 3.93 | 26.38 | Pass |
| 2 | 151 | 5755 | -2.32 | -0.10 | 4.77 | 4.67 | 26.38 | Pass |
| | 159 | 5795 | -2.61 | -0.39 | 4.77 | 4.38 | 26.38 | Pass |
| 3 | 151 | 5755 | -1.65 | 0.57 | 4.77 | 5.34 | 26.38 | Pass |
| | 159 | 5795 | -2.05 | 0.17 | 4.77 | 4.94 | 26.38 | Pass |

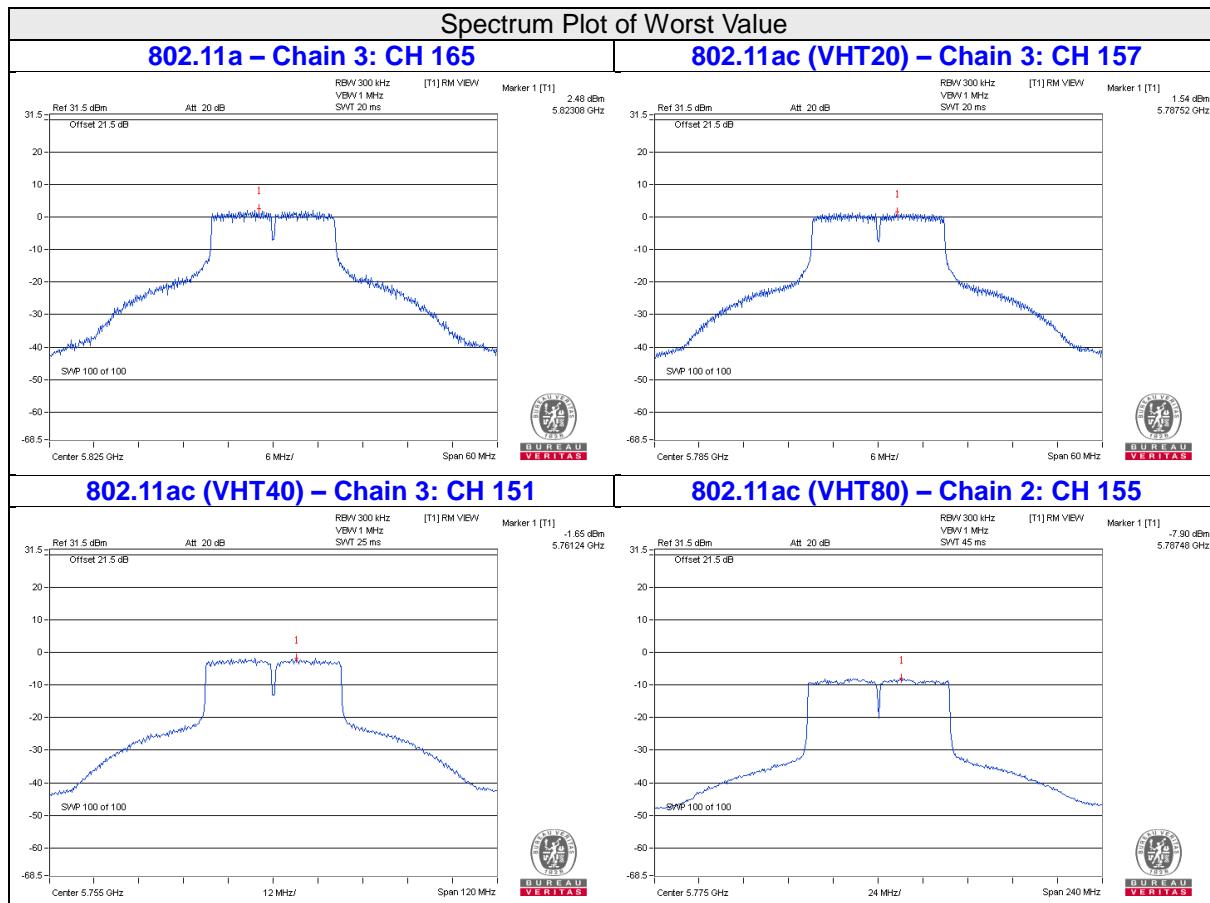
Note: 1. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.62 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $30 - (9.62 - 6) = 26.38 \text{dBm}$.

802.11ac (VHT80)

| TX chain | Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor | | 10 log (N=3) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|-------|-------------------------|---------------------|--------------|--------------------|---------------------|---|-----------------------|---------------|
| | | | (dBm/300kHz) | (dBm/500kHz) | | | | | |
| 1 | 155 | 5775 | -8.68 | -6.46 | 4.77 | 0.27 | -1.42 | 26.38 | Pass |
| 2 | 155 | 5775 | -7.90 | -5.68 | 4.77 | 0.27 | -0.64 | 26.38 | Pass |
| 3 | 155 | 5775 | -8.21 | -5.99 | 4.77 | 0.27 | -0.95 | 26.38 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G1/20} + 10^{G2/20} + 10^{G3/20})^2 / 3] = 9.62 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $30 - (9.62 - 6) = 26.38 \text{dBm}$.

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



4.5.9 Test Results (Mode 3)

For U-NII-1:

802.11a

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | | Total Power Density (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|---------------|---------|-------------------------------------|-------------------------|-------------|
| | | Chain 0 | Chain 2 | | | |
| 36 | 5180 | 0.73 | 1.31 | 4.04 | 15.25 | Pass |
| 40 | 5200 | 0.78 | 1.22 | 4.02 | 15.25 | Pass |
| 48 | 5240 | 0.91 | 1.14 | 4.04 | 15.25 | Pass |

- Note:**
- Method a) 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.
 - Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20})^2 / 2] = 7.75 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $17 - (7.75 - 6) = 15.25 \text{dBm}$.

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | | Total Power Density (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|---------------|---------|-------------------------------------|-------------------------|-------------|
| | | Chain 0 | Chain 2 | | | |
| 36 | 5180 | -2.22 | -1.97 | 0.92 | 15.25 | Pass |
| 40 | 5200 | -2.03 | -1.86 | 1.07 | 15.25 | Pass |
| 48 | 5240 | -2.23 | -1.89 | 0.95 | 15.25 | Pass |

- Note:**
- Method a) 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.
 - Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20})^2 / 2] = 7.75 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $17 - (7.75 - 6) = 15.25 \text{dBm}$.

802.11ac (VHT40)

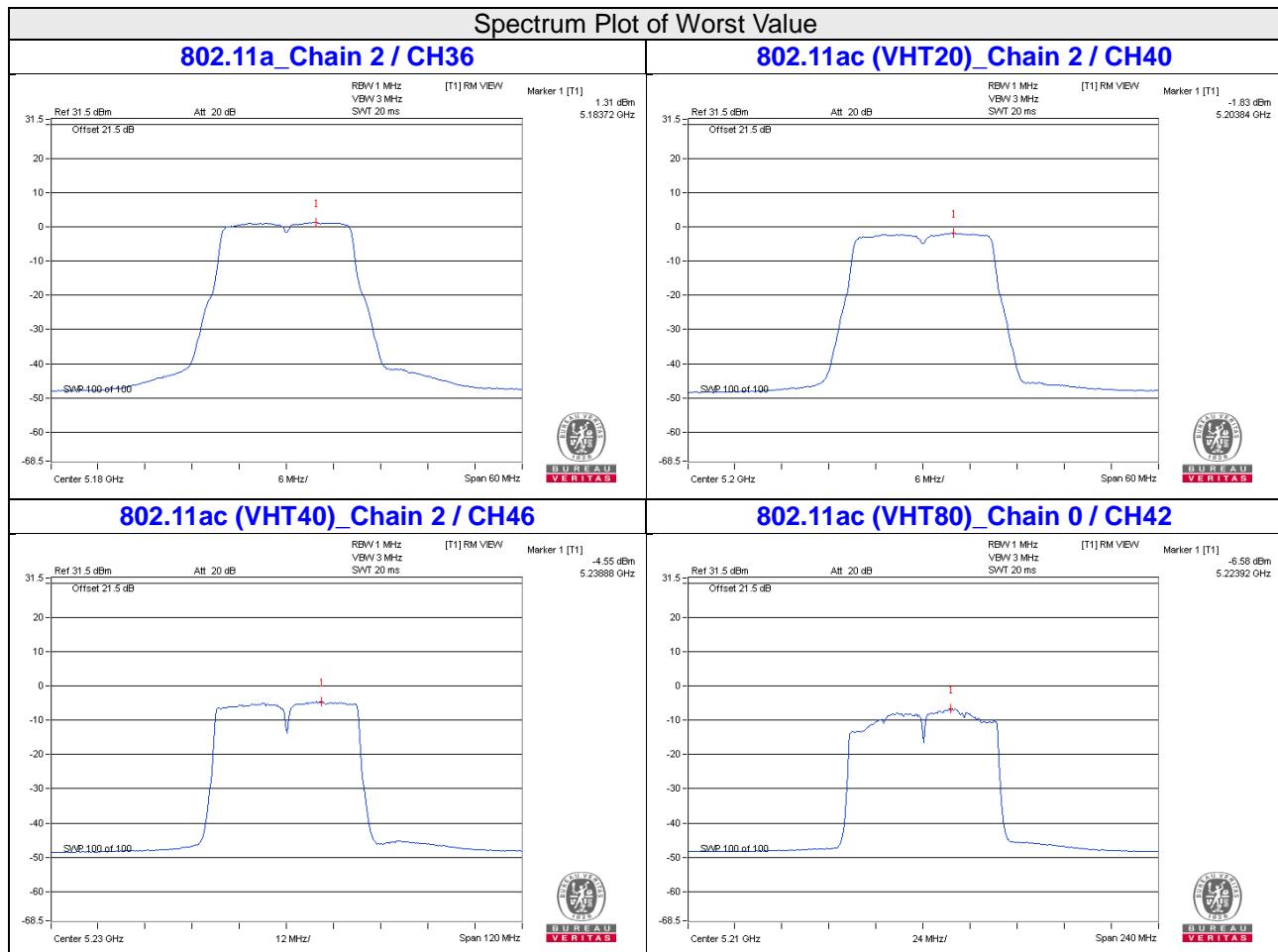
| Chan. | Chan. Freq. (MHz) | PSD (dBm/MHz) | | Total Power Density (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|---------------|---------|----------------------------------|-------------------------|-------------|
| | | Chain 0 | Chain 2 | | | |
| 38 | 5190 | -4.79 | -4.80 | -1.78 | 15.25 | Pass |
| 46 | 5230 | -5.24 | -4.64 | -1.92 | 15.25 | Pass |

- Note:**
- Method a) 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.
 - Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20})^2 / 2] = 7.75 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $17 - (7.75 - 6) = 15.25 \text{dBm}$.

802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor (dBm) | | Duty Factor (dB) | Total PSD With Duty Factor (dBm) | MAX. Limit (dBm) | Pass / Fail |
|-------|-------------------------|---------------------------|---------|---------------------|-------------------------------------|---------------------|-------------|
| | | Chain 0 | Chain 2 | | | | |
| 42 | 5210 | -6.70 | -6.70 | 0.27 | -3.42 | 15.25 | Pass |

- Note:**
- Method a) 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.
 - Directional gain = $10 \log[(10^{G0/20} + 10^{G2/20})^2 / 2] = 7.75 \text{dBi} > 6 \text{dBi}$, so the power density limit shall be reduced to $17 - (7.75 - 6) = 15.25 \text{dBm}$.
 - Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3:
802.11a

| TX chain | Channel | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=2) dB | Total PSD (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|---------|----------------|---------------------|---------------------|--------------------|---------------------------|-----------------------|---------------|
| 2 | 149 | 5745 | 1.74 | 3.96 | 3.01 | 6.97 | 28.07 | Pass |
| | 157 | 5785 | 1.28 | 3.50 | 3.01 | 6.51 | 28.07 | Pass |
| | 165 | 5825 | 1.68 | 3.90 | 3.01 | 6.91 | 28.07 | Pass |
| 3 | 149 | 5745 | 1.68 | 3.90 | 3.01 | 6.91 | 28.07 | Pass |
| | 157 | 5785 | 2.22 | 4.44 | 3.01 | 7.45 | 28.07 | Pass |
| | 165 | 5825 | 2.48 | 4.70 | 3.01 | 7.71 | 28.07 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G2/20} + 10^{G3/20})^2 / 2] = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(7.93-6) = 28.07\text{dBm}$.

802.11ac (VHT20)

| TX chain | Channel | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=2) dB | Total PSD (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|---------|----------------|---------------------|---------------------|--------------------|---------------------------|-----------------------|---------------|
| 2 | 149 | 5745 | 1.77 | 3.99 | 3.01 | 7.00 | 28.07 | Pass |
| | 157 | 5785 | 1.68 | 3.90 | 3.01 | 6.91 | 28.07 | Pass |
| | 165 | 5825 | 1.37 | 3.59 | 3.01 | 6.60 | 28.07 | Pass |
| 3 | 149 | 5745 | 2.15 | 4.37 | 3.01 | 7.38 | 28.07 | Pass |
| | 157 | 5785 | 2.17 | 4.39 | 3.01 | 7.40 | 28.07 | Pass |
| | 165 | 5825 | 2.12 | 4.34 | 3.01 | 7.35 | 28.07 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G2/20} + 10^{G3/20})^2 / 2] = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(7.93-6) = 28.07\text{dBm}$.

802.11ac (VHT40)

| TX chain | Channel | Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | 10 log (N=2) dB | Total PSD (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|---------|----------------|---------------------|---------------------|--------------------|---------------------------|-----------------------|---------------|
| 2 | 151 | 5755 | -2.32 | -0.10 | 3.01 | 2.91 | 28.07 | Pass |
| | 159 | 5795 | -2.61 | -0.39 | 3.01 | 2.62 | 28.07 | Pass |
| 3 | 151 | 5755 | -1.65 | 0.57 | 3.01 | 3.58 | 28.07 | Pass |
| | 159 | 5795 | -2.05 | 0.17 | 3.01 | 3.18 | 28.07 | Pass |

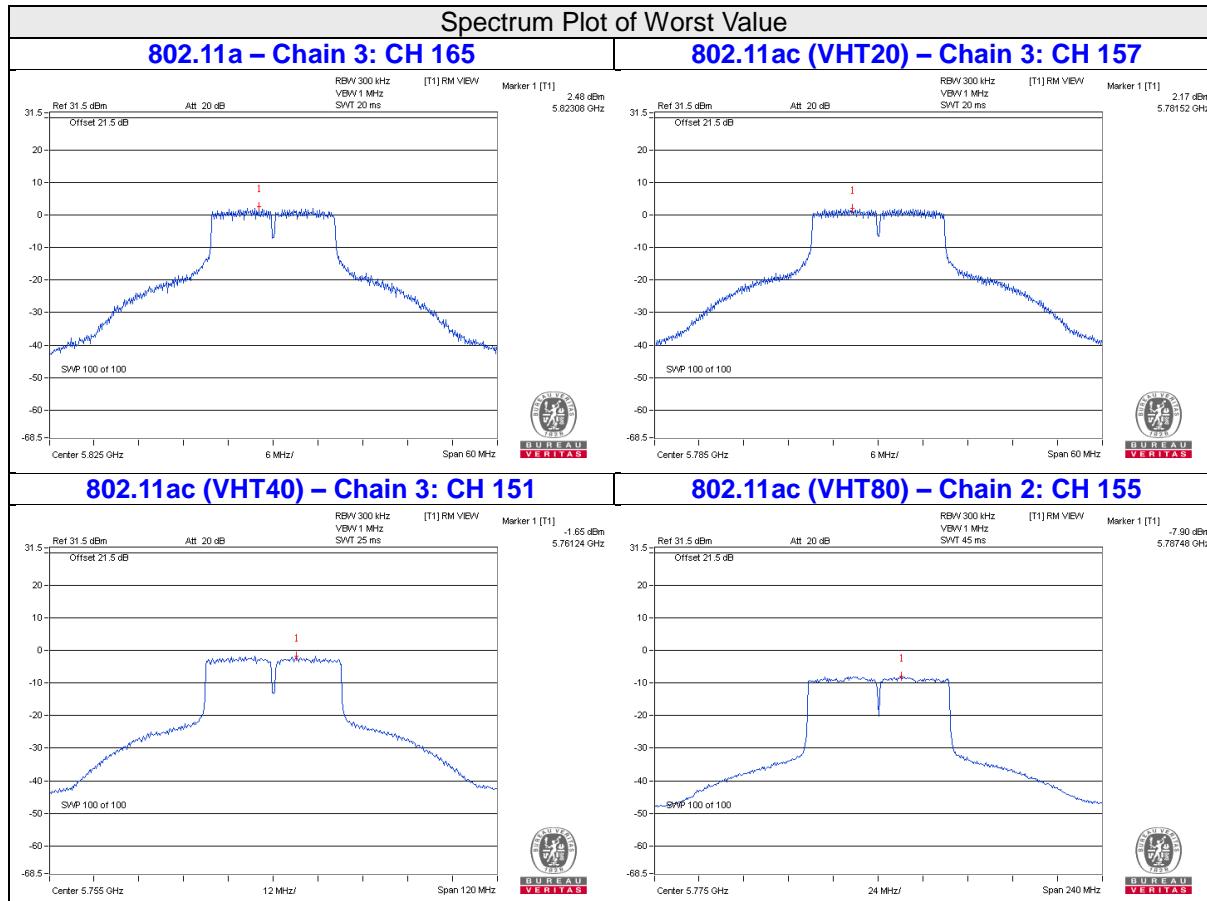
Note: 1. Directional gain = $10 \log[(10^{G2/20} + 10^{G3/20})^2 / 2] = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(7.93-6) = 28.07\text{dBm}$.

802.11ac (VHT80)

| TX chain | Chan. | Chan. Freq. (MHz) | PSD W/O Duty Factor | | 10 log (N=2) dB | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|----------|-------|-------------------------|---------------------|--------------|--------------------|---------------------|---|-----------------------|---------------|
| | | | (dBm/300kHz) | (dBm/500kHz) | | | | | |
| 2 | 155 | 5775 | -7.90 | -5.68 | 3.01 | 0.27 | -2.40 | 28.07 | Pass |
| 3 | 155 | 5775 | -8.21 | -5.99 | 3.01 | 0.27 | -2.71 | 28.07 | Pass |

Note: 1. Directional gain = $10 \log[(10^{G2/20} + 10^{G3/20})^2 / 2] = 7.93\text{dBi} > 6\text{dBi}$, so the power density limit shall be reduced to $30-(7.93-6) = 28.07\text{dBm}$.

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



4.5.10 Test Results (Mode 4)

For U-NII-1:

802.11a

| Chan. | Chan. Freq. (MHz) | Chain 0 PSD (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|--------------------------|----------------------|-------------|
| 36 | 5180 | 4.14 | 17.00 | Pass |
| 40 | 5200 | 4.22 | 17.00 | Pass |
| 48 | 5240 | 4.12 | 17.00 | Pass |

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | Chain 0 PSD (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|--------------------------|----------------------|-------------|
| 36 | 5180 | 3.95 | 17.00 | Pass |
| 40 | 5200 | 4.24 | 17.00 | Pass |
| 48 | 5240 | 3.81 | 17.00 | Pass |

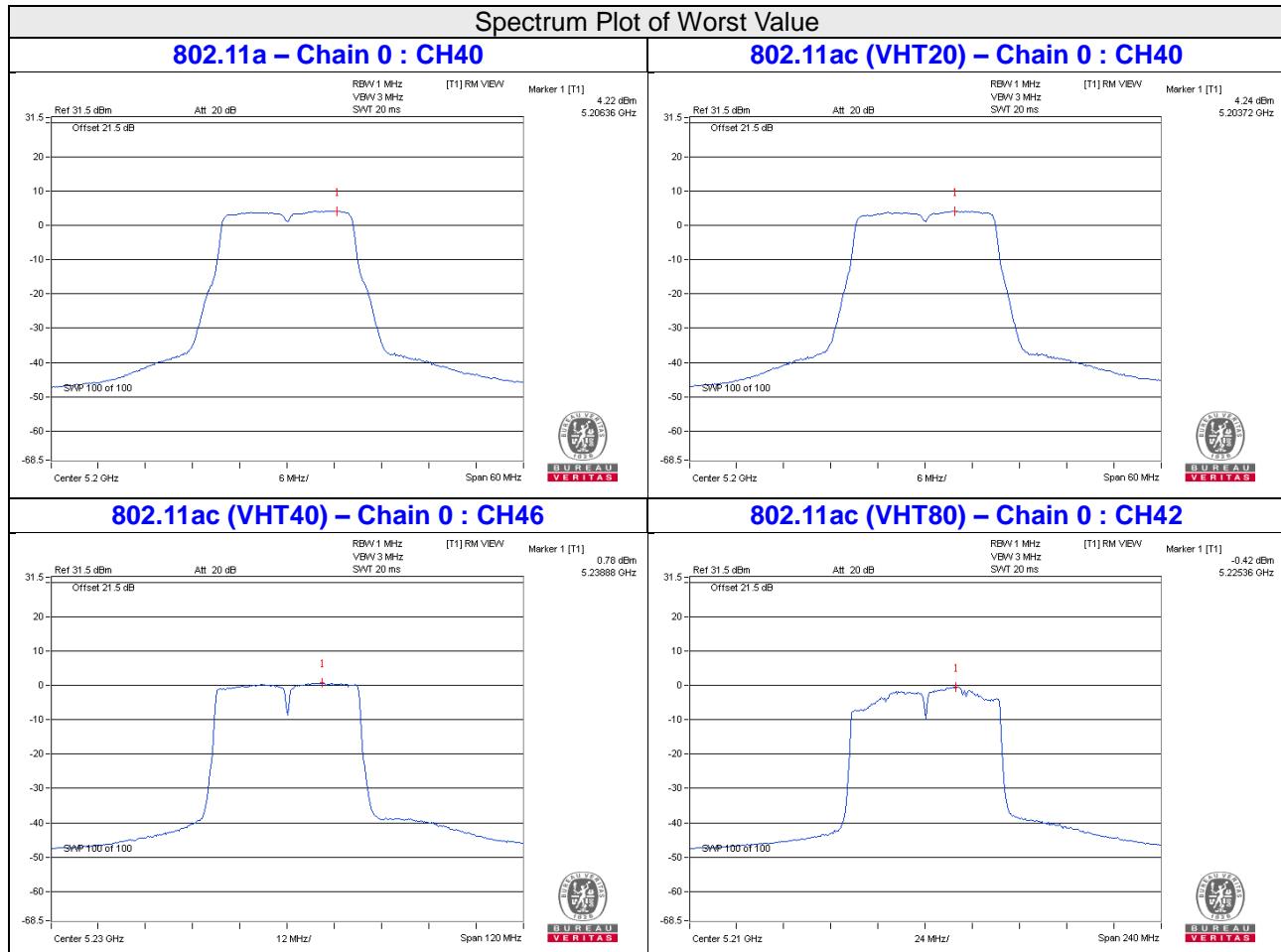
802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | Chain 0 PSD (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|--------------------------|----------------------|-------------|
| 38 | 5190 | 0.77 | 17.00 | Pass |
| 46 | 5230 | 0.78 | 17.00 | Pass |

802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | Chain 0 PSD W/O Duty Factor (dBm/MHz) | Duty Factor (dB) | Chain 0 PSD With Duty Factor (dBm/MHz) | MAX. Limit (dBm/MHz) | Pass / Fail |
|-------|----------------------|--|---------------------|---|-------------------------|-------------|
| 42 | 5210 | -0.42 | 0.27 | -0.15 | 17.00 | Pass |

Note: 1. Refer to section 3.3 for duty cycle spectrum plot.



For U-NII-3:
802.11a

| Chan. | Chan. Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|-------|----------------------|---------------------|---------------------|-----------------------|---------------|
| | | Chain 2 | | | |
| 149 | 5745 | 1.74 | 3.96 | 30.00 | Pass |
| 157 | 5785 | 1.28 | 3.50 | 30.00 | Pass |
| 165 | 5825 | 1.68 | 3.90 | 30.00 | Pass |

802.11ac (VHT20)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|-------|----------------------|---------------------|---------------------|-----------------------|---------------|
| | | Chain 2 | | | |
| 149 | 5745 | 1.77 | 3.99 | 30.00 | Pass |
| 157 | 5785 | 1.68 | 3.90 | 30.00 | Pass |
| 165 | 5825 | 1.37 | 3.59 | 30.00 | Pass |

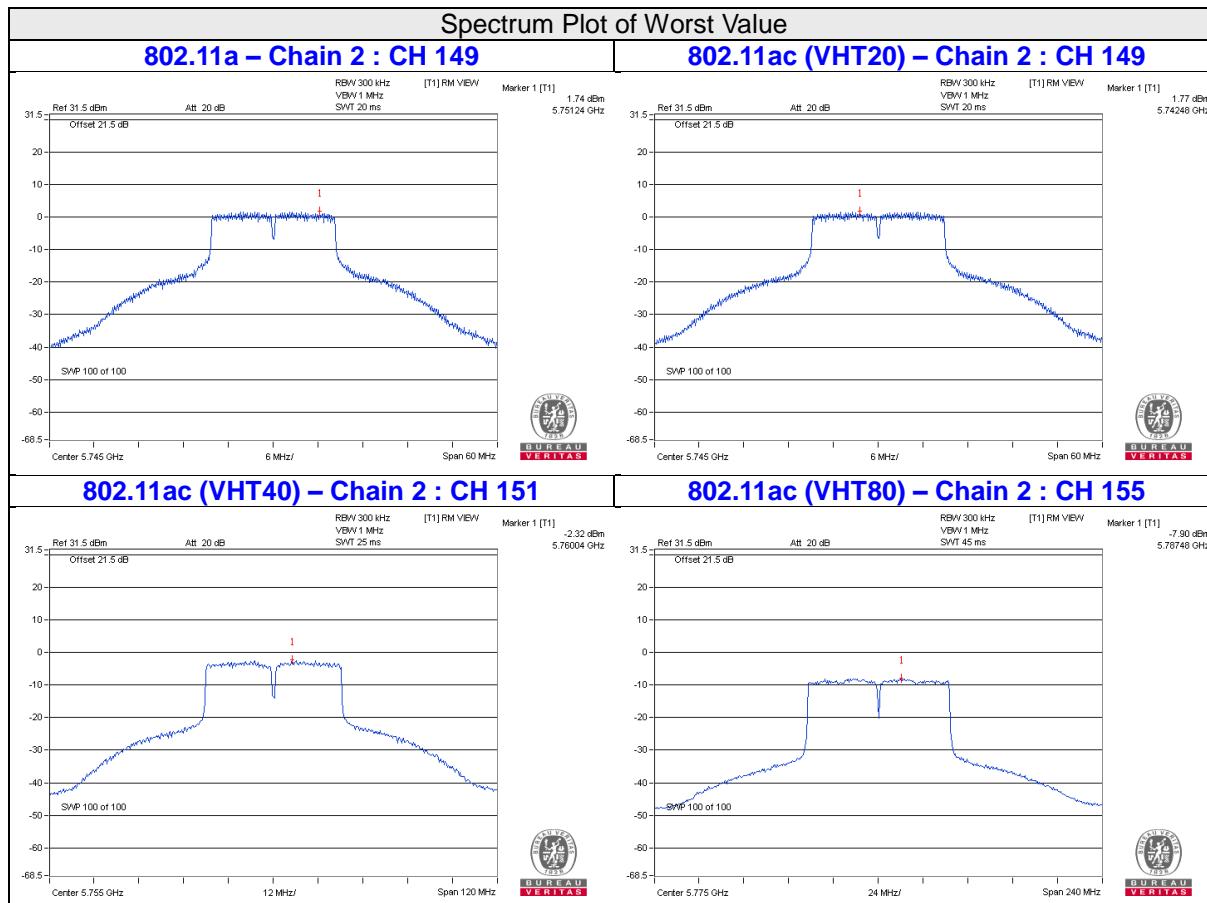
802.11ac (VHT40)

| Chan. | Chan. Freq. (MHz) | PSD (dBm/300kHz) | PSD (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|-------|----------------------|---------------------|---------------------|-----------------------|---------------|
| | | Chain 2 | | | |
| 151 | 5755 | -2.32 | -0.10 | 30.00 | Pass |
| 159 | 5795 | -2.61 | -0.39 | 30.00 | Pass |

802.11ac (VHT80)

| Chan. | Chan. Freq. (MHz) | Chain 2 PSD W/O Duty Factor | | Duty Factor (dB) | Total PSD With Duty Factor (dBm/500kHz) | Limit (dBm/500kHz) | Pass /Fail |
|-------|----------------------|-----------------------------|--------------|---------------------|---|-----------------------|---------------|
| | | (dBm/300kHz) | (dBm/500kHz) | | | | |
| 155 | 5775 | -7.90 | -5.68 | 0.27 | -5.41 | 30.00 | Pass |

Note: 1. Refer to section 3.3 for duty cycle spectrum plot.

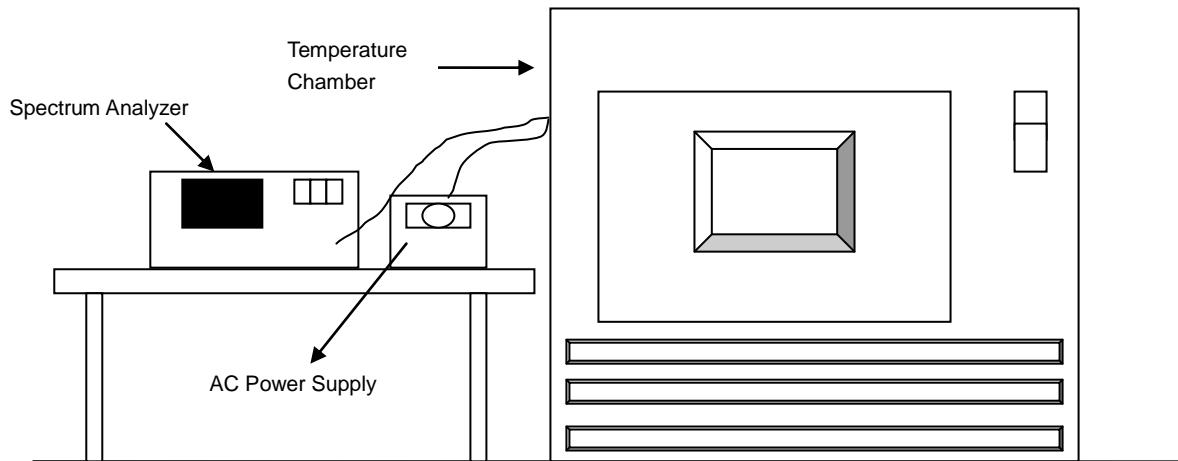


4.6 Frequency Stability Measurement

4.6.1 Limits of Frequency Stability Measurement

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

4.6.2 Test Setup



4.6.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.6.4 Test Procedure

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

4.6.5 Deviation from Test Standard

No deviation.

4.6.6 EUT Operating Condition

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

4.6.7 Test Results (Mode 1)

| Frequency Stability Versus Temp. | | | | | | | | | |
|----------------------------------|--------------------------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|
| Operating Frequency: 5180 MHz | | | | | | | | | |
| TEMP. (°C) | Power Supply (Vac) | 0 Minute | | 2 Minutes | | 5 Minutes | | 10 Minutes | |
| | | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail |
| 50 | 120 | 5180.0131 | PASS | 5180.0136 | PASS | 5180.0147 | PASS | 5180.0129 | PASS |
| 40 | 120 | 5179.9959 | PASS | 5179.9961 | PASS | 5179.9924 | PASS | 5179.9967 | PASS |
| 30 | 120 | 5180.0038 | PASS | 5180.002 | PASS | 5180.0015 | PASS | 5180.0056 | PASS |
| 20 | 120 | 5180.0013 | PASS | 5179.9986 | PASS | 5179.9993 | PASS | 5180.001 | PASS |
| 10 | 120 | 5179.9772 | PASS | 5179.9784 | PASS | 5179.9751 | PASS | 5179.9777 | PASS |
| 0 | 120 | 5179.9936 | PASS | 5179.9953 | PASS | 5179.9944 | PASS | 5179.9943 | PASS |
| -10 | 120 | 5179.9953 | PASS | 5179.9979 | PASS | 5179.9968 | PASS | 5179.9961 | PASS |
| -20 | 120 | 5180.0019 | PASS | 5180.0014 | PASS | 5179.9989 | PASS | 5179.9998 | PASS |
| -30 | 120 | 5179.9896 | PASS | 5179.9916 | PASS | 5179.9906 | PASS | 5179.9921 | PASS |

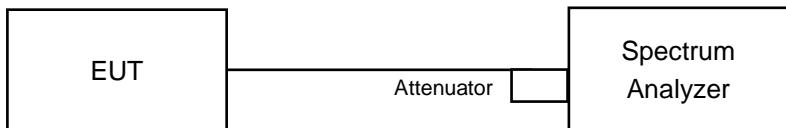
| Frequency Stability Versus Voltage | | | | | | | | | |
|------------------------------------|--------------------------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|--------------------------------|-----------|
| Operating Frequency: 5180 MHz | | | | | | | | | |
| TEMP. (°C) | Power Supply (Vac) | 0 Minute | | 2 Minutes | | 5 Minutes | | 10 Minutes | |
| | | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail | Measured Frequency (MHz) | Pass/Fail |
| 20 | 138 | 5180.0019 | PASS | 5179.9984 | PASS | 5179.9994 | PASS | 5180.0005 | PASS |
| | 120 | 5180.0013 | PASS | 5179.9986 | PASS | 5179.9993 | PASS | 5180.001 | PASS |
| | 102 | 5180.0016 | PASS | 5179.9992 | PASS | 5180.0002 | PASS | 5180.0012 | PASS |

4.7 6dB Bandwidth Measurement

4.7.1 Limits of 6dB Bandwidth Measurement

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.7.2 Test Setup



4.7.3 Test Instruments

Refer to section 4.1.2 to get information of above instrument.

4.7.4 Test Procedure

MEASUREMENT PROCEDURE REF

- a. Set resolution bandwidth (RBW) = 100kHz
- b. Set the video bandwidth (VBW) $\geq 3 \times$ 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

4.7.5 Deviation from Test Standard

No deviation.

4.7.6 EUT Operating Condition

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

4.7.7 Test Results (Mode 1)

802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | |
| 149 | 5745 | 16.36 | 16.36 | 16.37 | 16.40 | 0.5 | PASS |
| 157 | 5785 | 16.38 | 16.39 | 16.36 | 16.42 | 0.5 | PASS |
| 165 | 5825 | 16.36 | 16.35 | 16.34 | 16.38 | 0.5 | PASS |

802.11ac (VHT20)

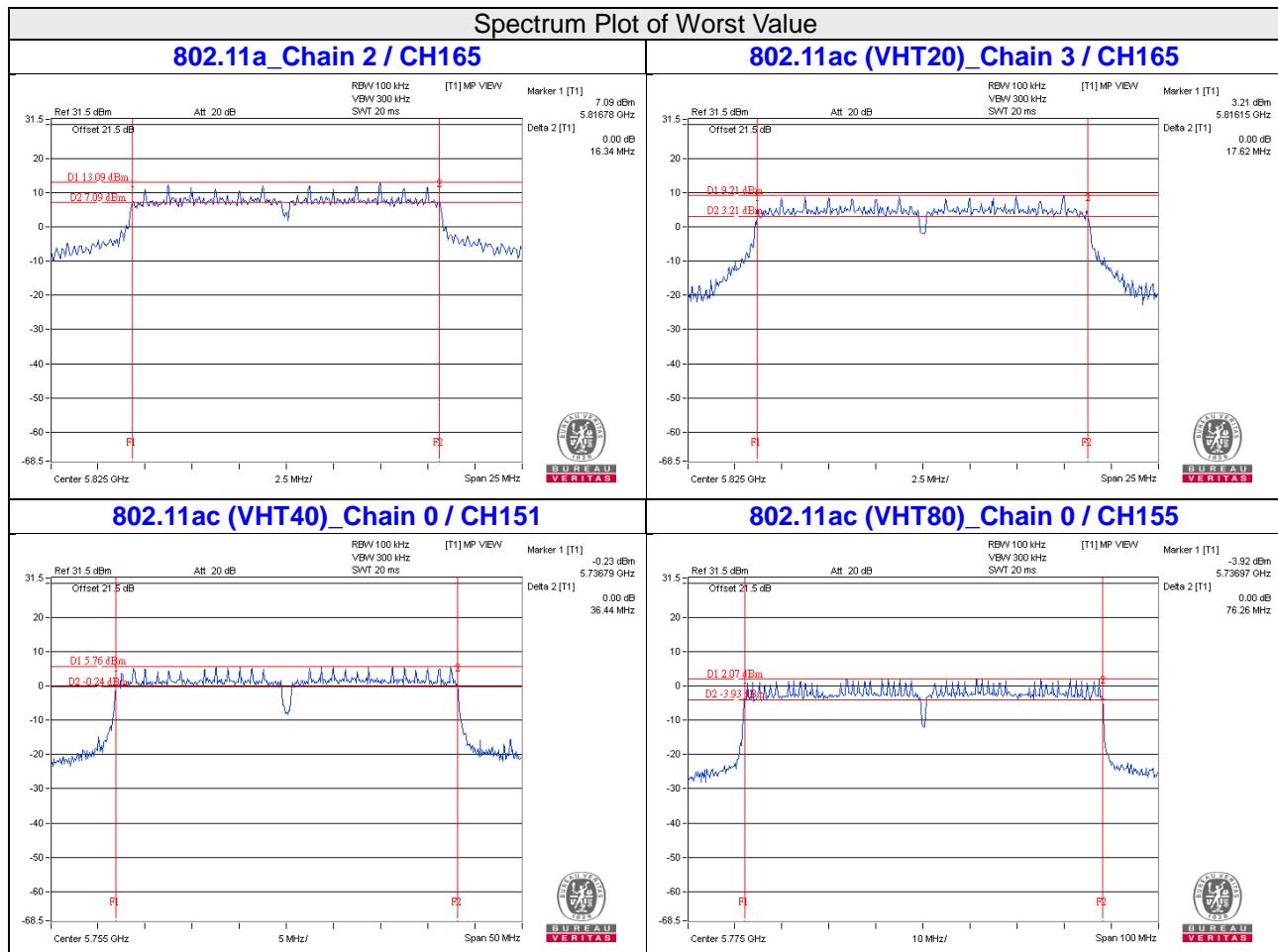
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | |
| 149 | 5745 | 17.65 | 17.68 | 17.67 | 17.69 | 0.5 | PASS |
| 157 | 5785 | 17.64 | 17.65 | 17.64 | 17.66 | 0.5 | PASS |
| 165 | 5825 | 17.65 | 17.65 | 17.65 | 17.62 | 0.5 | PASS |

802.11ac (VHT40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | |
| 151 | 5755 | 36.44 | 36.49 | 36.47 | 36.47 | 0.5 | PASS |
| 159 | 5795 | 36.46 | 36.50 | 36.45 | 36.47 | 0.5 | PASS |

802.11ac (VHT80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------|---------------------|-------------|
| | | Chain 0 | Chain 1 | Chain 2 | Chain 3 | | |
| 155 | 5775 | 76.26 | 76.46 | 76.43 | 76.47 | 0.5 | PASS |



4.7.8 Test Results (Mode 2)

802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
| | | Chain 1 | Chain 2 | Chain 3 | | |
| 149 | 5745 | 16.36 | 16.37 | 16.40 | 0.5 | PASS |
| 157 | 5785 | 16.39 | 16.36 | 16.42 | 0.5 | PASS |
| 165 | 5825 | 16.35 | 16.34 | 16.38 | 0.5 | PASS |

802.11ac (VHT20)

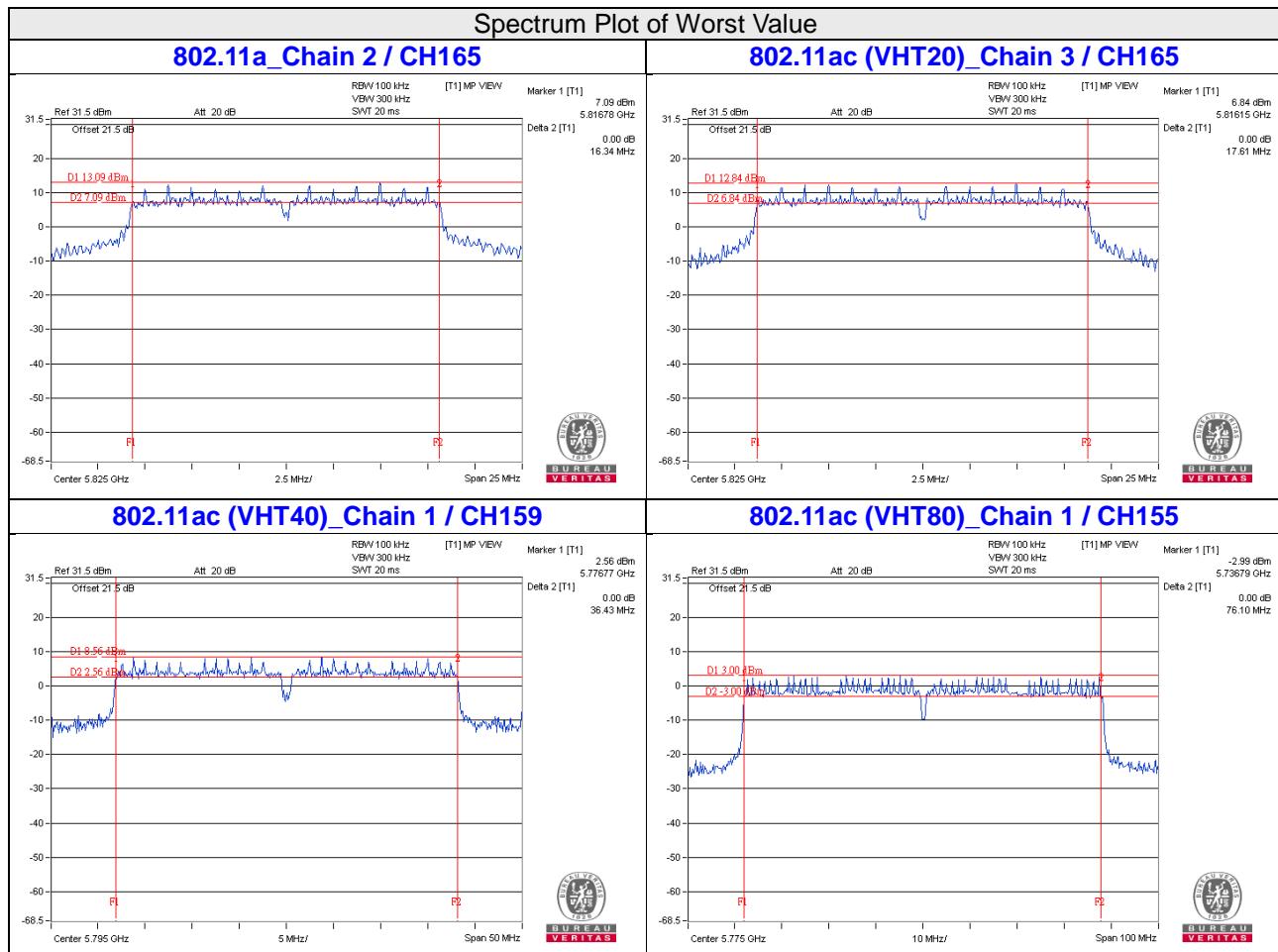
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
| | | Chain 1 | Chain 2 | Chain 3 | | |
| 149 | 5745 | 17.64 | 17.65 | 17.65 | 0.5 | PASS |
| 157 | 5785 | 17.64 | 17.64 | 17.63 | 0.5 | PASS |
| 165 | 5825 | 17.62 | 17.63 | 17.61 | 0.5 | PASS |

802.11ac (VHT40)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
| | | Chain 1 | Chain 2 | Chain 3 | | |
| 151 | 5755 | 36.47 | 36.46 | 36.44 | 0.5 | PASS |
| 159 | 5795 | 36.43 | 36.46 | 36.46 | 0.5 | PASS |

802.11ac (VHT80)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------|---------------------|-------------|
| | | Chain 1 | Chain 2 | Chain 3 | | |
| 155 | 5775 | 76.10 | 76.40 | 76.44 | 0.5 | PASS |



4.7.9 Test Results (Mode 3)

802.11a

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
| | | Chain 2 | Chain 3 | | |
| 149 | 5745 | 16.37 | 16.40 | 0.5 | PASS |
| 157 | 5785 | 16.36 | 16.42 | 0.5 | PASS |
| 165 | 5825 | 16.34 | 16.38 | 0.5 | PASS |

802.11ac (VHT20)

| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
| | | Chain 2 | Chain 3 | | |
| 149 | 5745 | 17.68 | 17.66 | 0.5 | PASS |
| 157 | 5785 | 17.64 | 17.62 | 0.5 | PASS |
| 165 | 5825 | 17.60 | 17.61 | 0.5 | PASS |

802.11ac (VHT40)

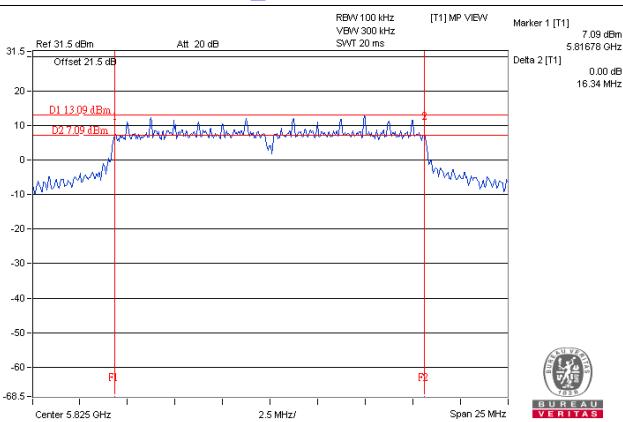
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
| | | Chain 2 | Chain 3 | | |
| 151 | 5755 | 36.46 | 36.44 | 0.5 | PASS |
| 159 | 5795 | 36.46 | 36.46 | 0.5 | PASS |

802.11ac (VHT80)

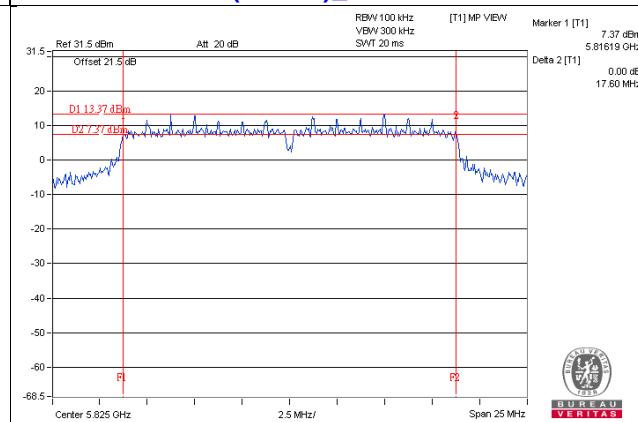
| Channel | Frequency (MHz) | 6dB Bandwidth (MHz) | | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|---------------------|---------|---------------------|-------------|
| | | Chain 2 | Chain 3 | | |
| 155 | 5775 | 76.40 | 76.44 | 0.5 | PASS |

Spectrum Plot of Worst Value

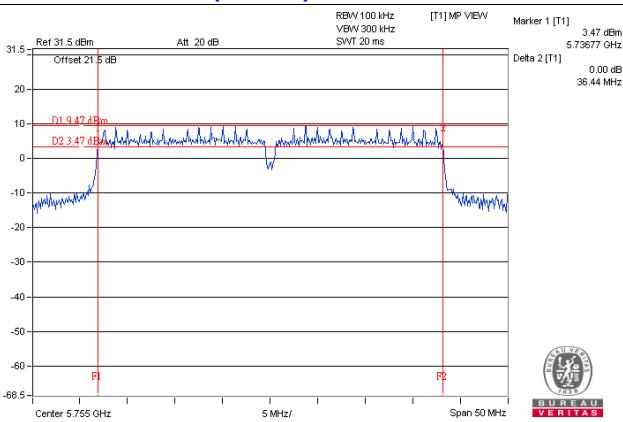
802.11a_Chain 2 / CH165



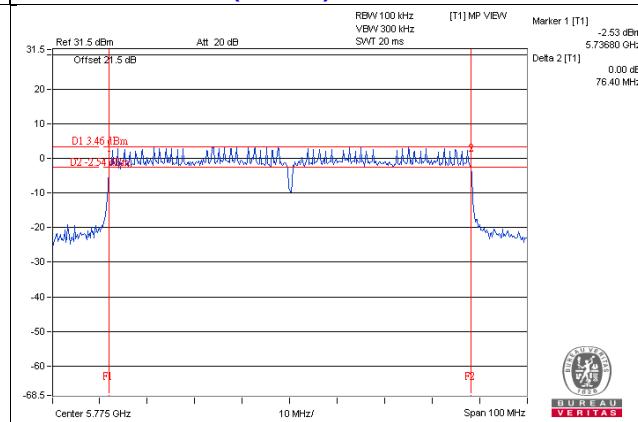
802.11ac (VHT20)_Chain 2 / CH165



802.11ac (VHT40)_Chain 3 / CH151



802.11ac (VHT80)_Chain 2 / CH155



4.7.10 Test Results (Mode 4)

802.11a

| Channel | Frequency (MHz) | Chain 2 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|-----------------------------------|------------------------|-------------|
| 149 | 5745 | 16.37 | 0.5 | PASS |
| 157 | 5785 | 16.36 | 0.5 | PASS |
| 165 | 5825 | 16.34 | 0.5 | PASS |

802.11ac (VHT20)

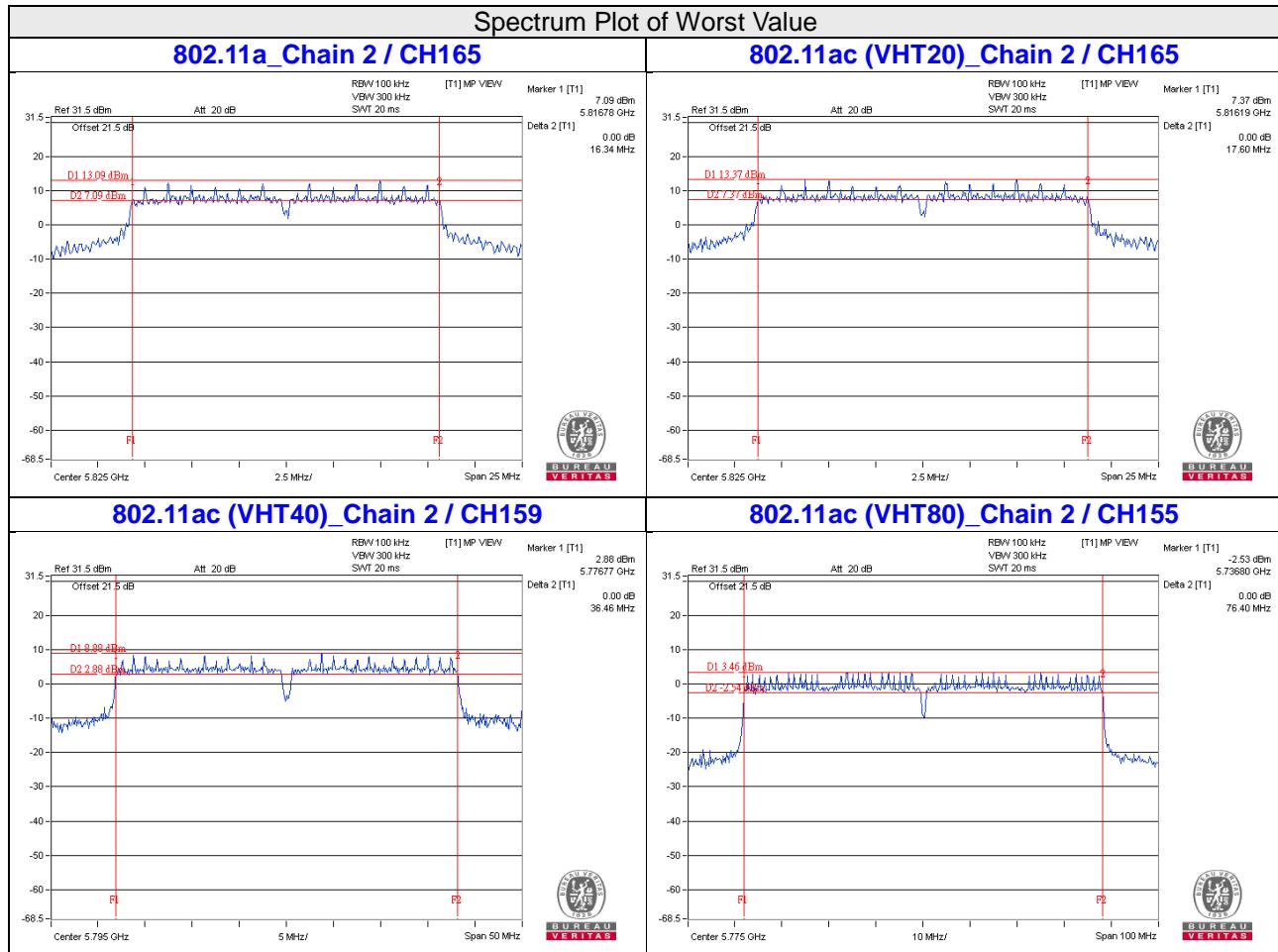
| Channel | Frequency (MHz) | Chain 2 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|-----------------------------------|------------------------|-------------|
| 149 | 5745 | 17.68 | 0.5 | PASS |
| 157 | 5785 | 17.64 | 0.5 | PASS |
| 165 | 5825 | 17.60 | 0.5 | PASS |

802.11ac (VHT40)

| Channel | Frequency (MHz) | Chain 2 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|-----------------------------------|------------------------|-------------|
| 151 | 5755 | 36.46 | 0.5 | PASS |
| 159 | 5795 | 36.46 | 0.5 | PASS |

802.11ac (VHT80)

| Channel | Frequency (MHz) | Chain 2 6dB Bandwidth (MHz) | Minimum Limit (MHz) | Pass / Fail |
|---------|-----------------|-----------------------------------|------------------------|-------------|
| 155 | 5775 | 76.40 | 0.5 | PASS |



5 Pictures of Test Arrangements

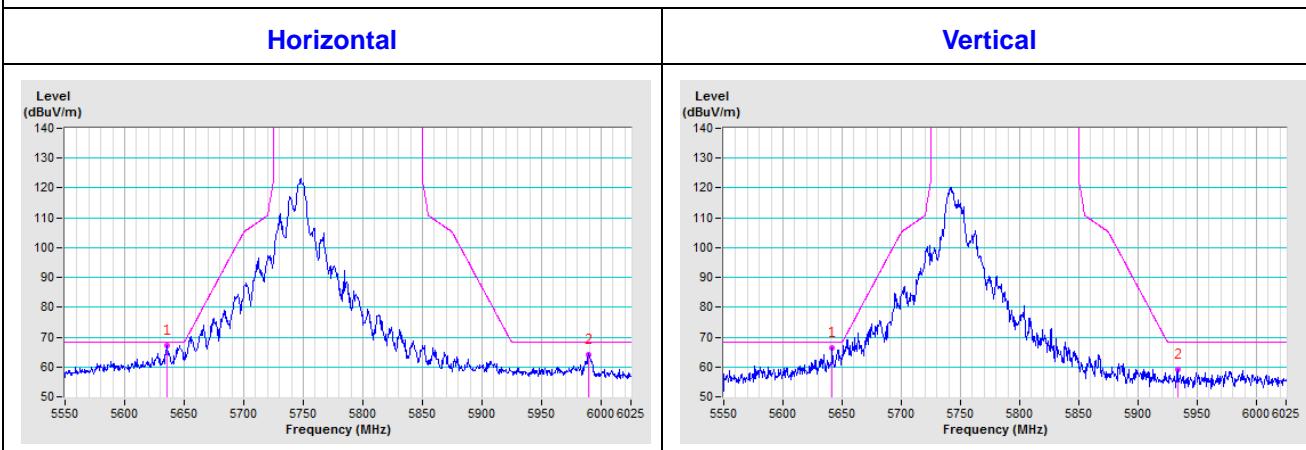
Please refer to the attached file (Test Setup Photo).

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

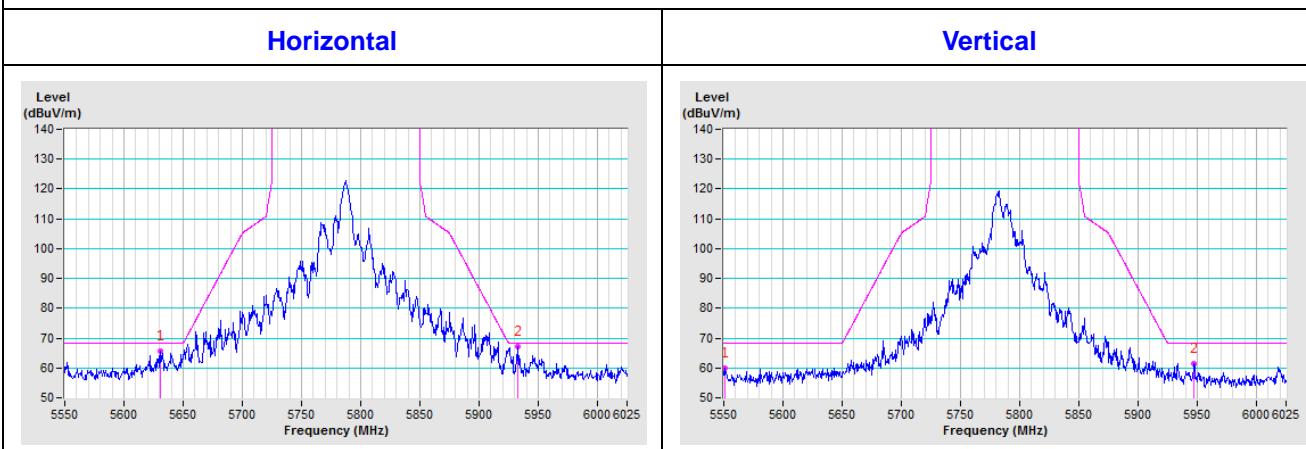
4TX Mode

802.11a

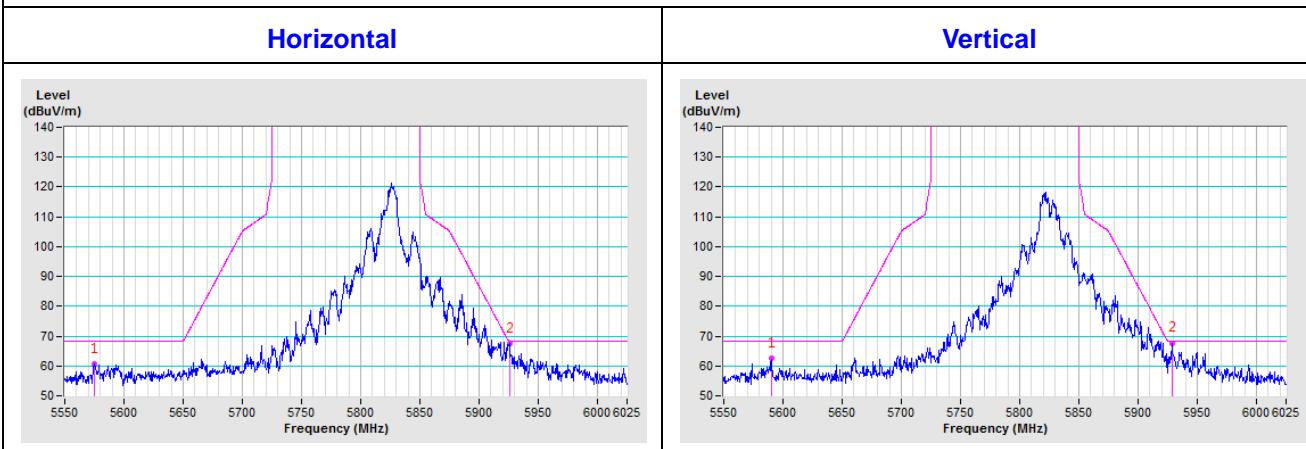
CH 149 5745 MHz

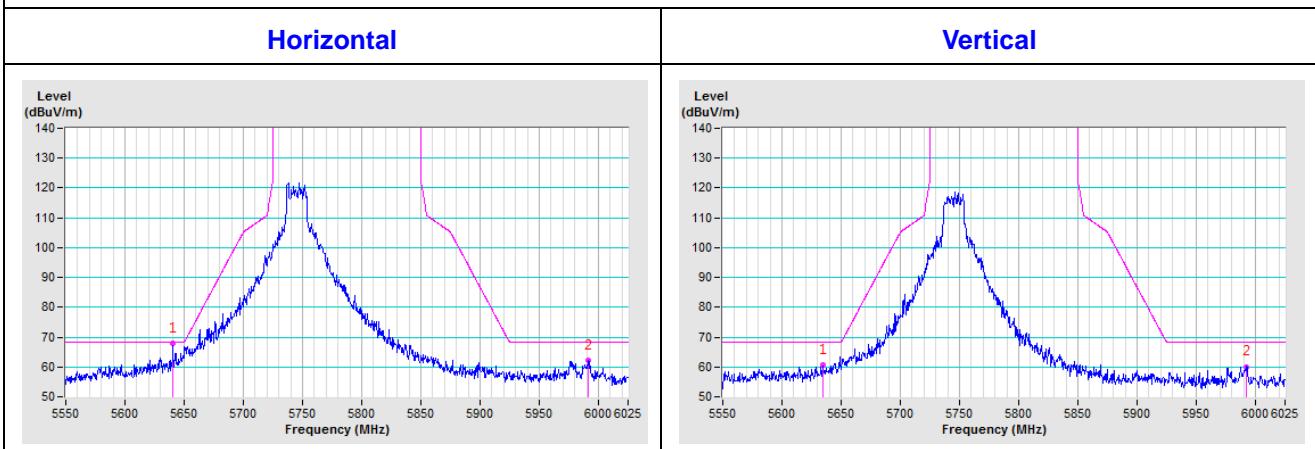
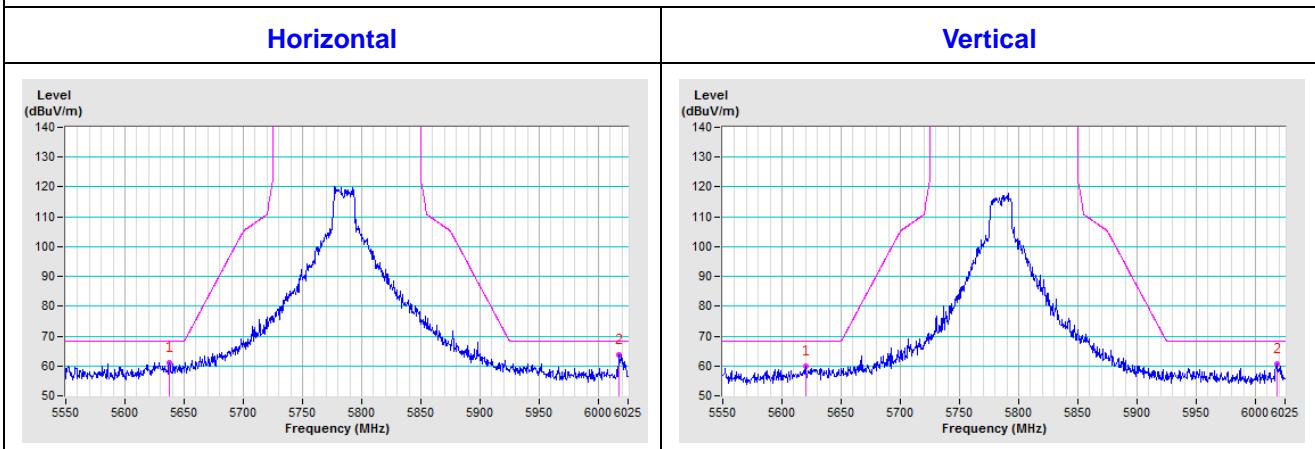
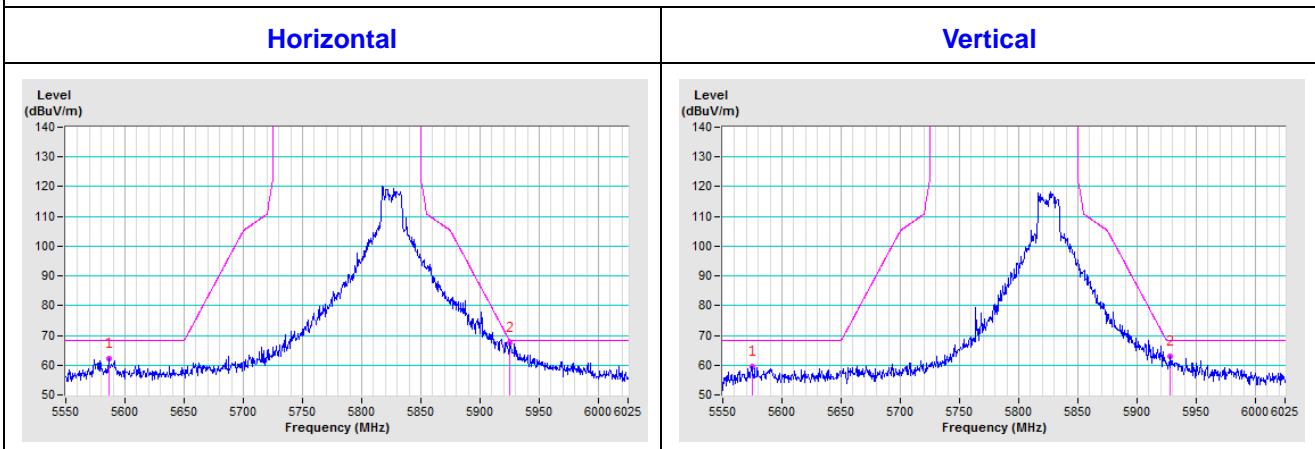


CH 157 5785 MHz



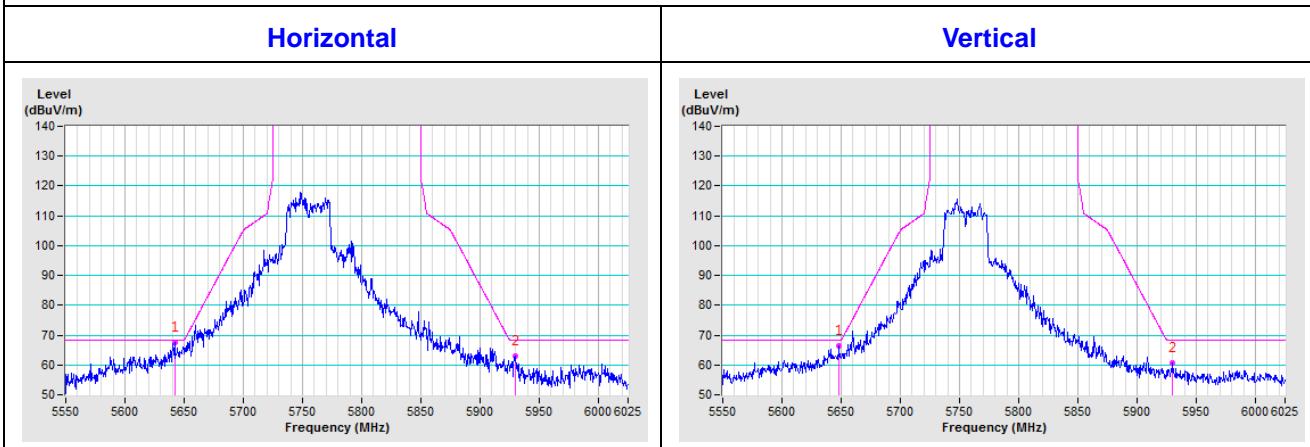
CH 165 5825 MHz



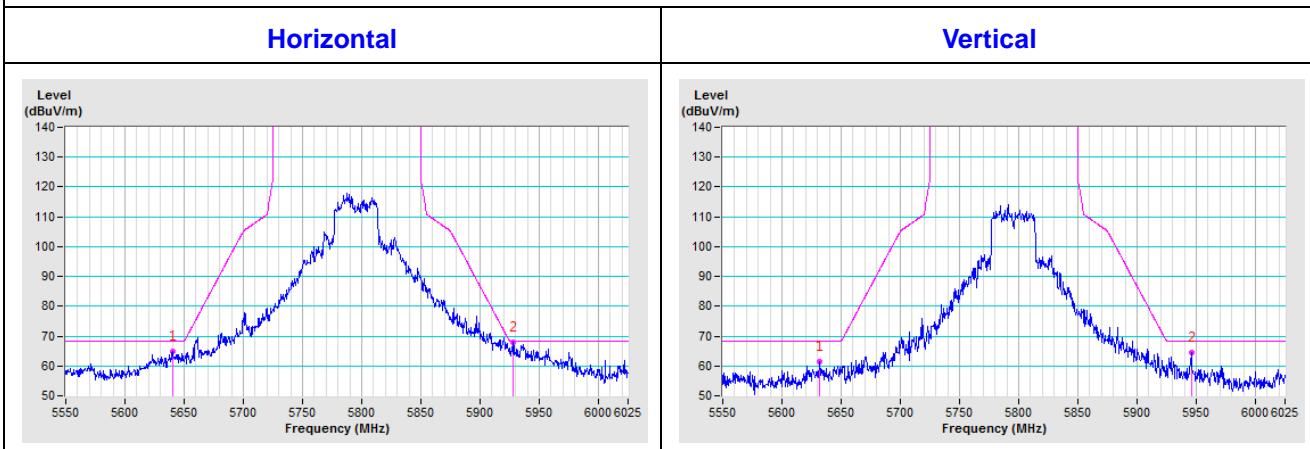
802.11ac (VHT20)
CH 149 5745 MHz

CH 157 5785 MHz

CH 165 5825 MHz


802.11ac (VHT40)

CH 151 5755 MHz

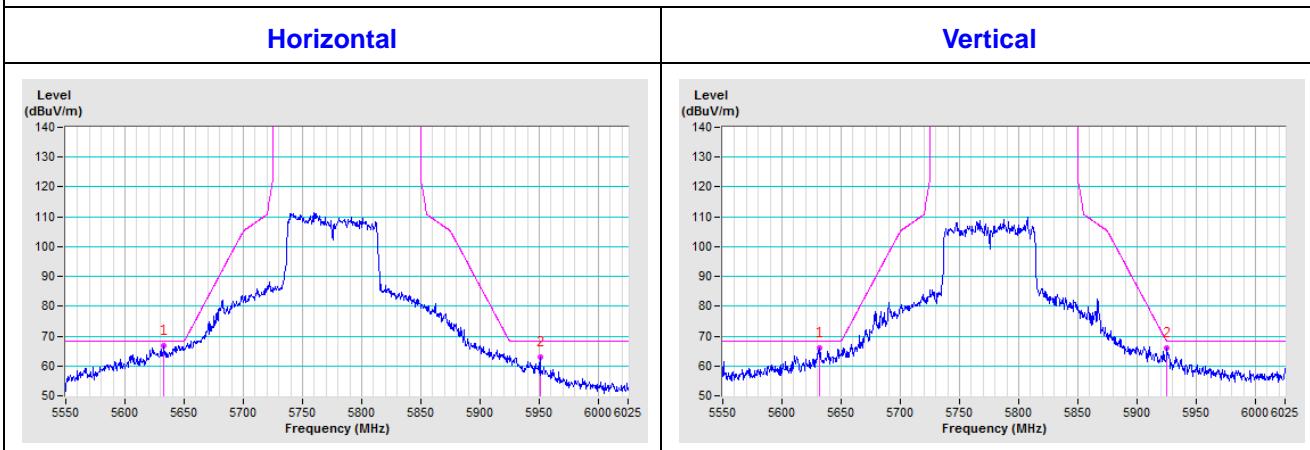


CH 159 5795 MHz



802.11ac (VHT80)

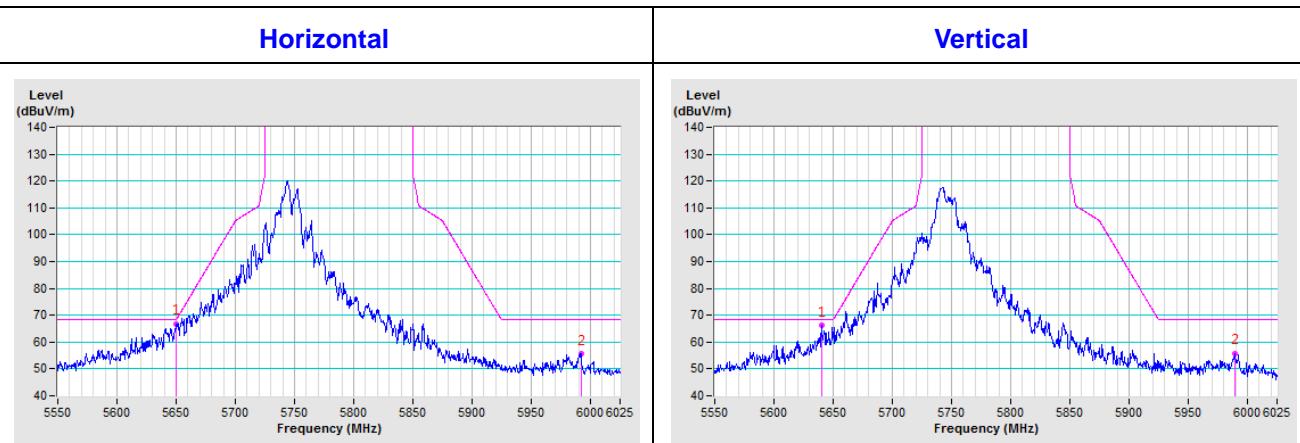
CH 155 5775 MHz



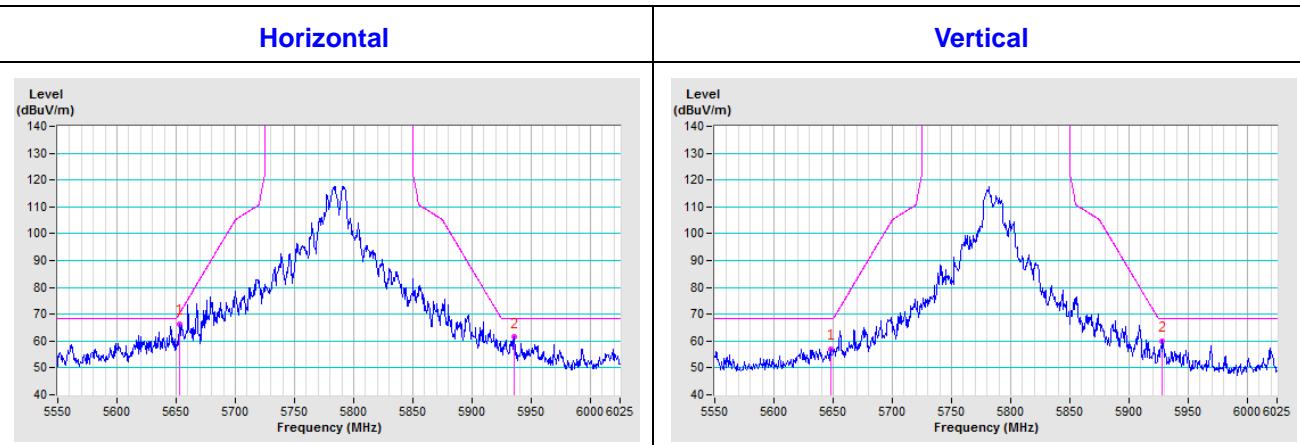
3TX Mode

802.11a

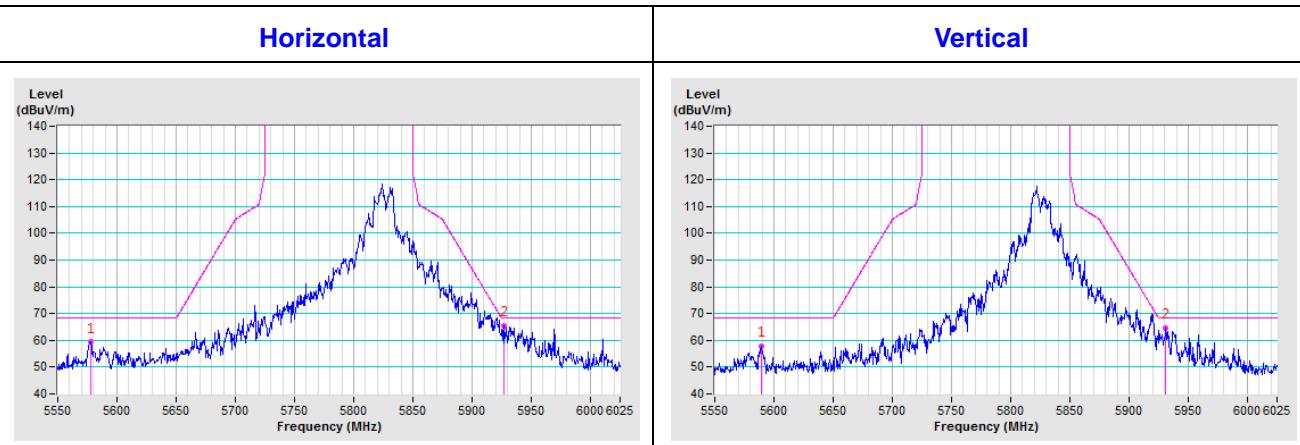
CH 149 5745 MHz

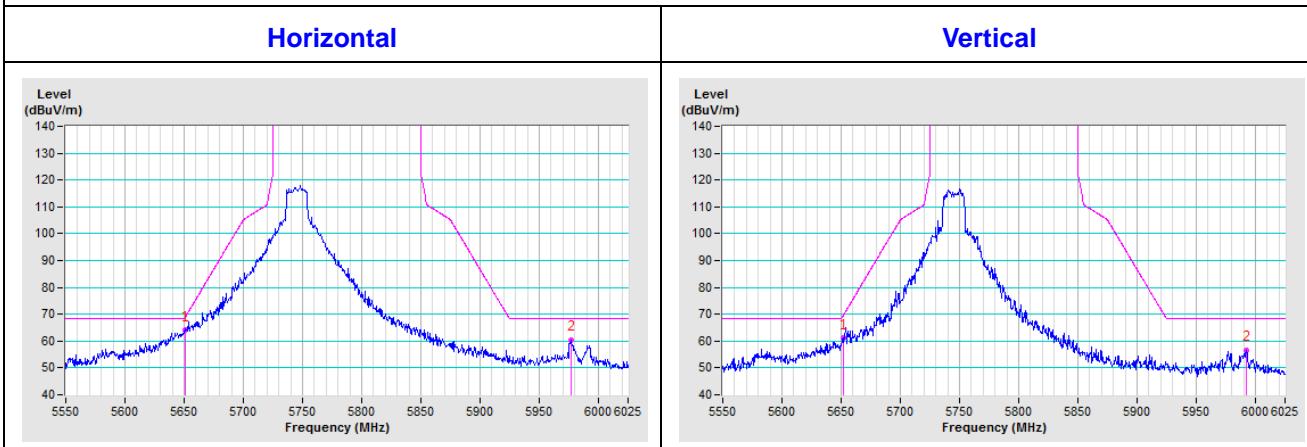
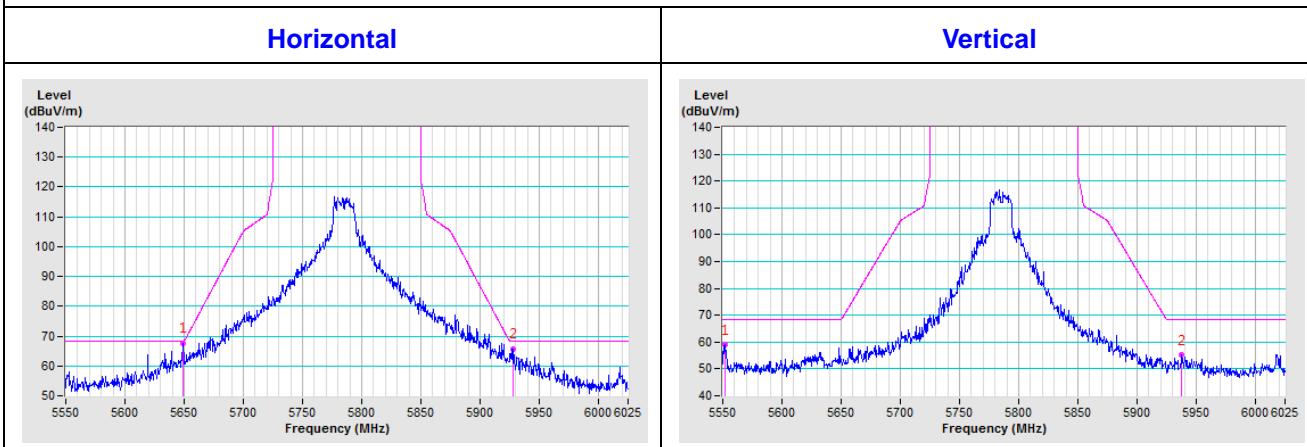
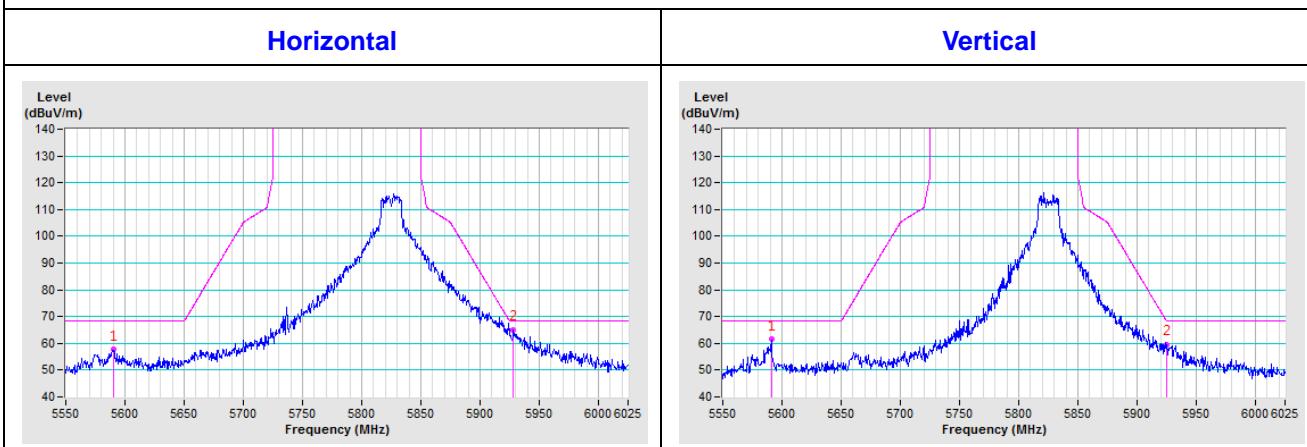


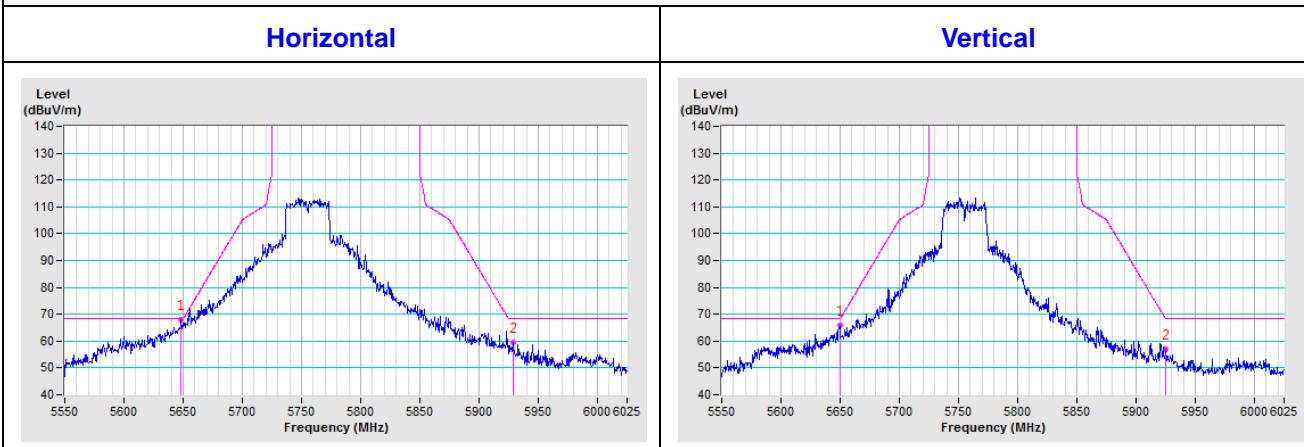
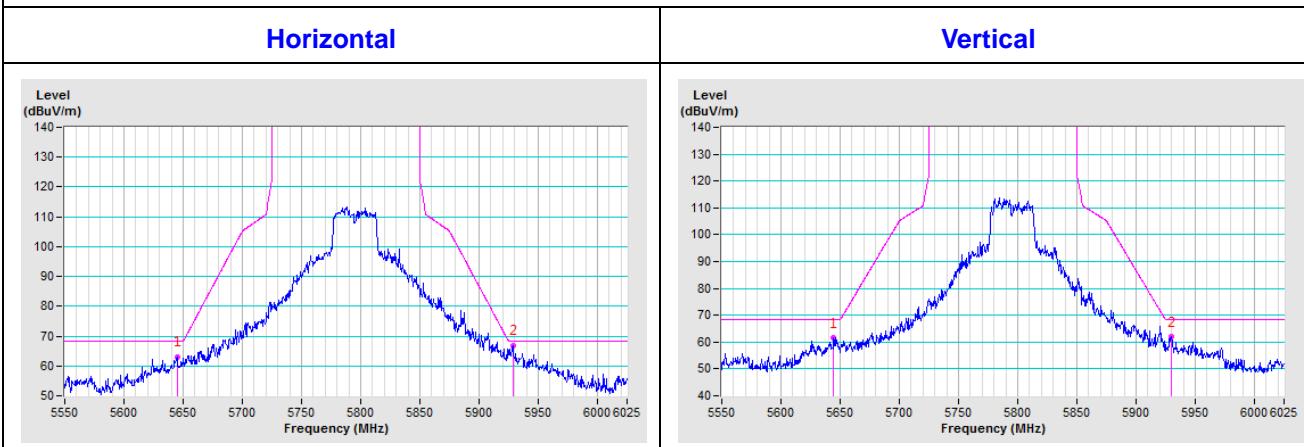
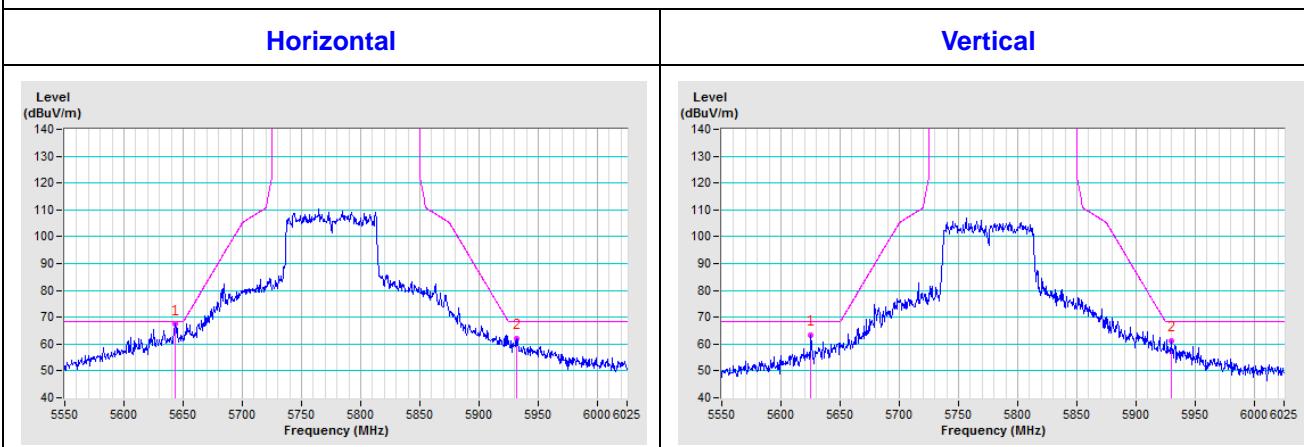
CH 157 5785 MHz



CH 165 5825 MHz



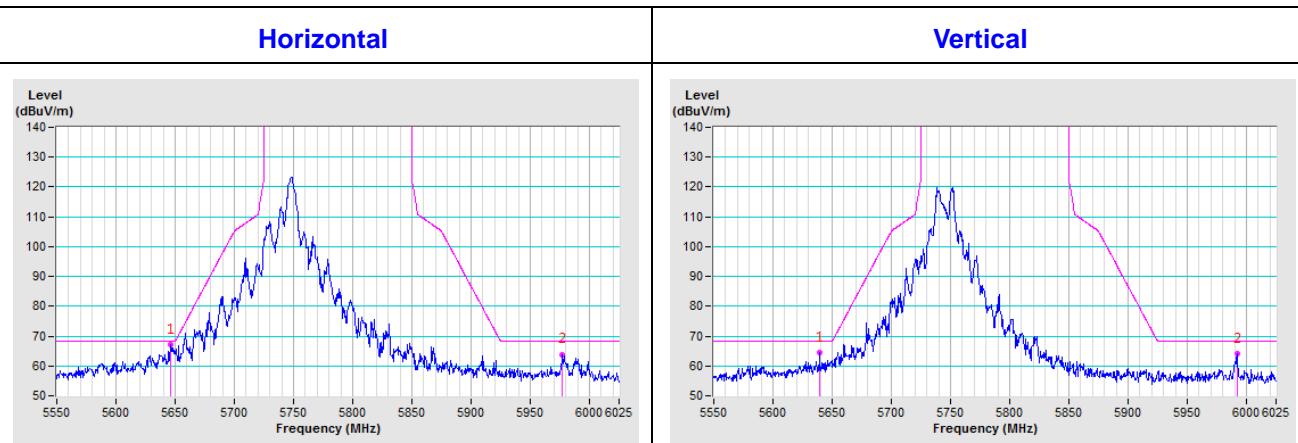
802.11ac (VHT20)
CH 149 5745 MHz

CH 157 5785 MHz

CH 165 5825 MHz


802.11ac (VHT40)
CH 151 5755 MHz

CH 159 5795 MHz

802.11ac (VHT80)
CH 155 5775 MHz


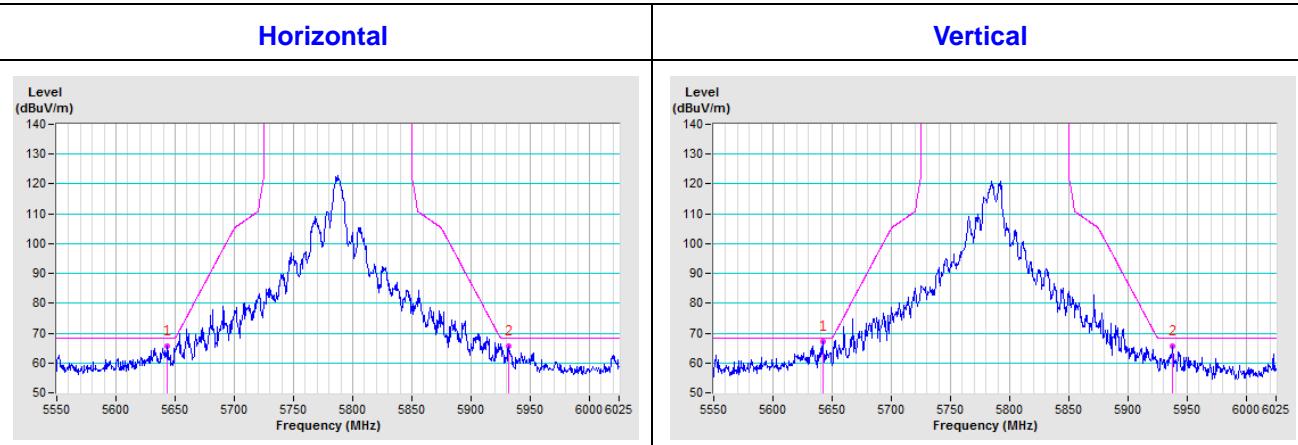
2TX Mode

802.11a

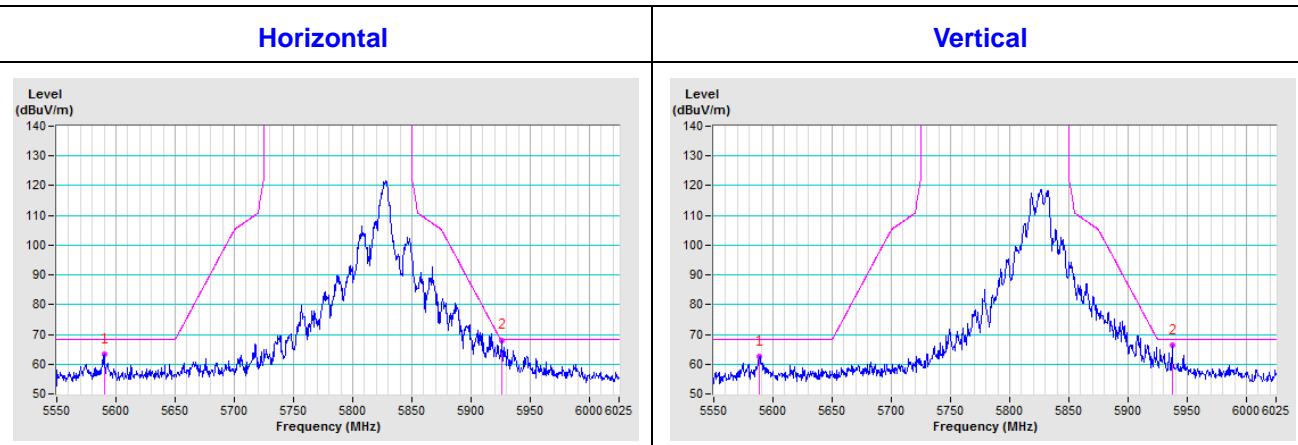
CH 149 5745 MHz

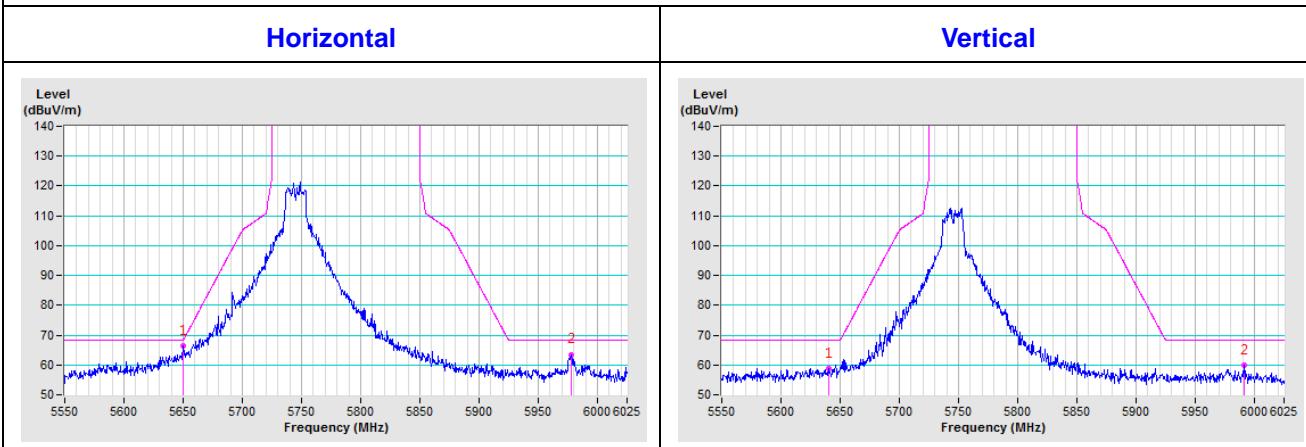
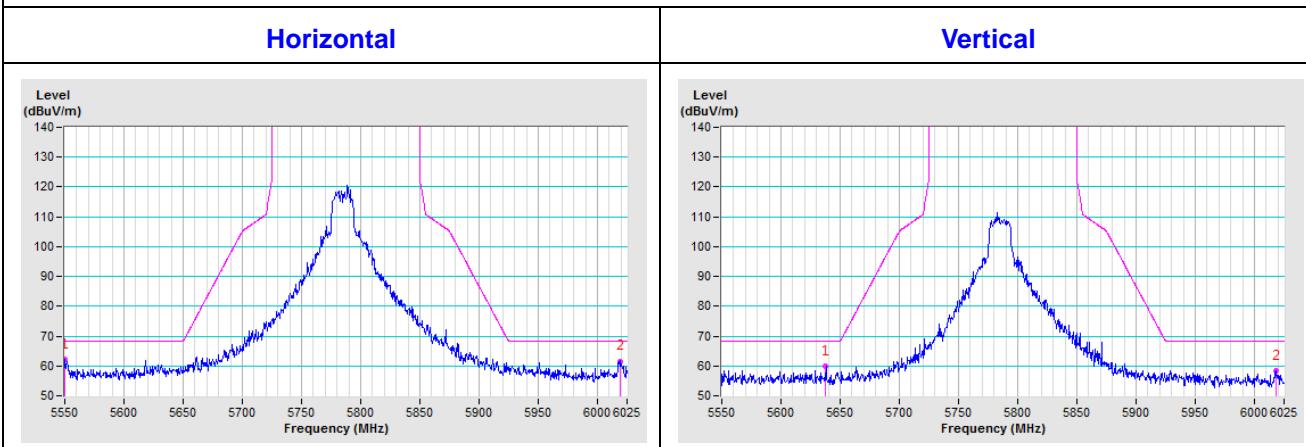
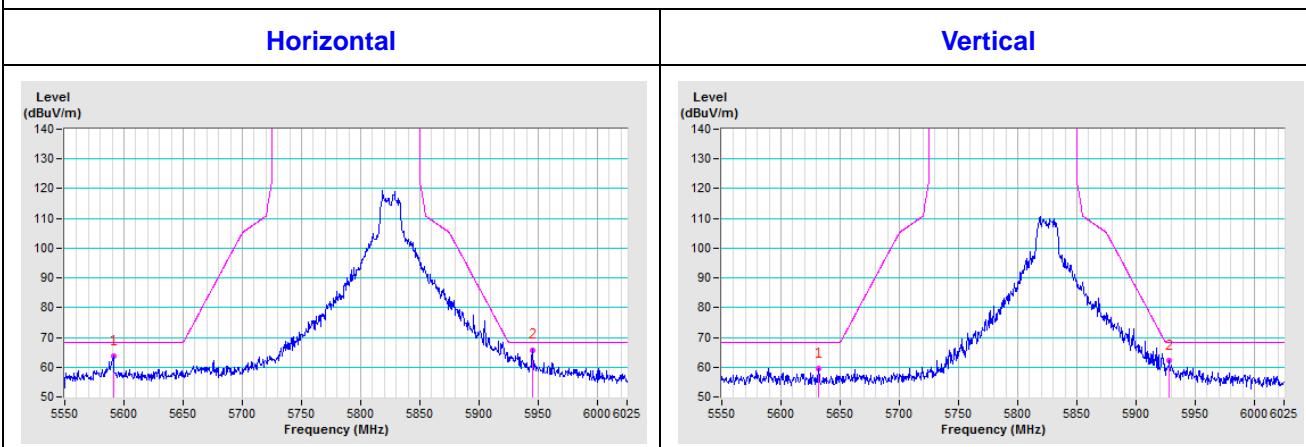


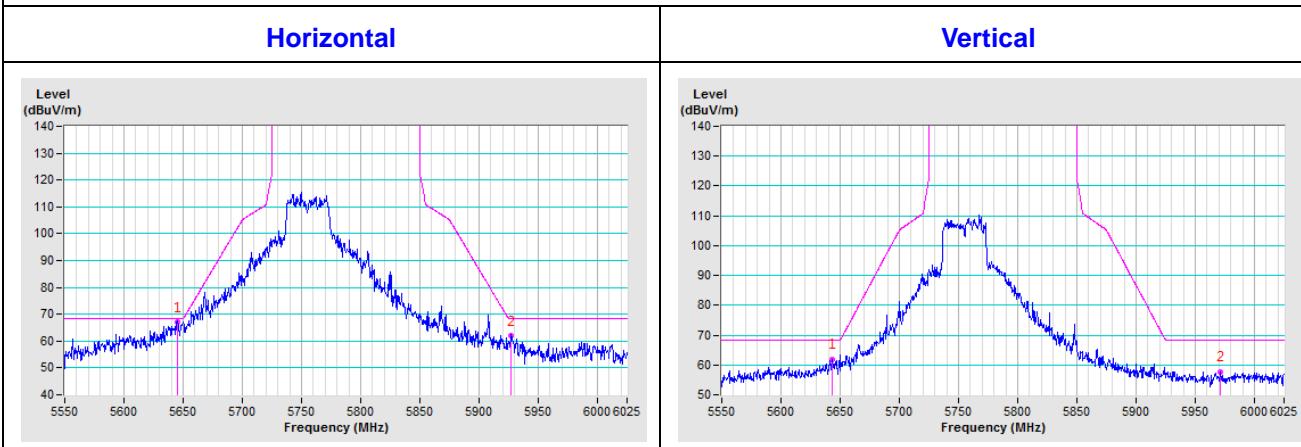
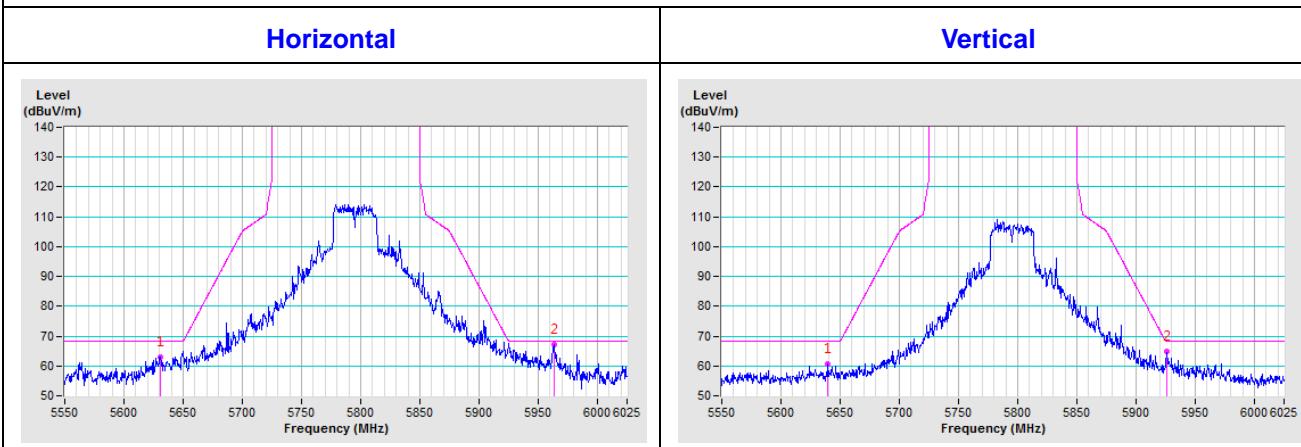
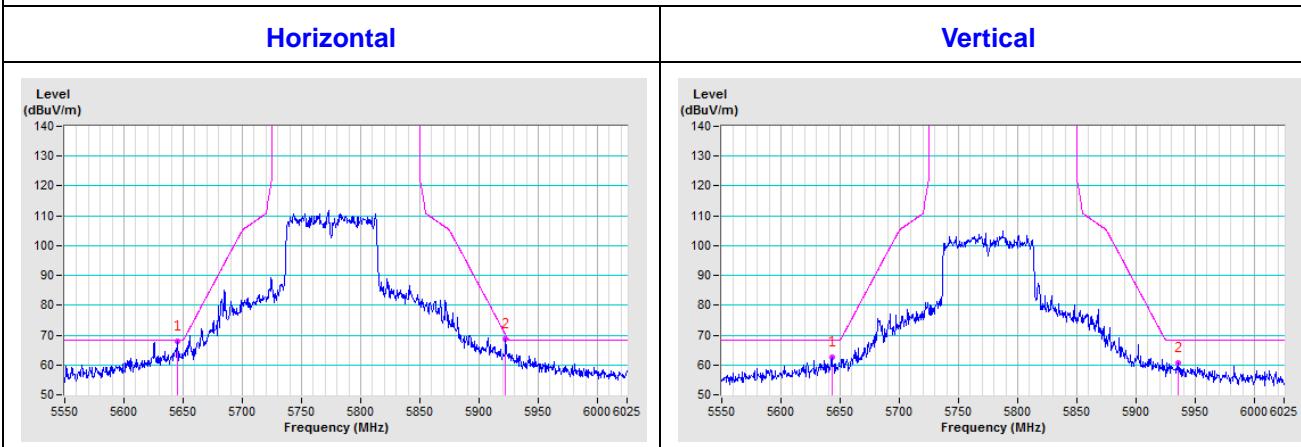
CH 157 5785 MHz



CH 165 5825 MHz



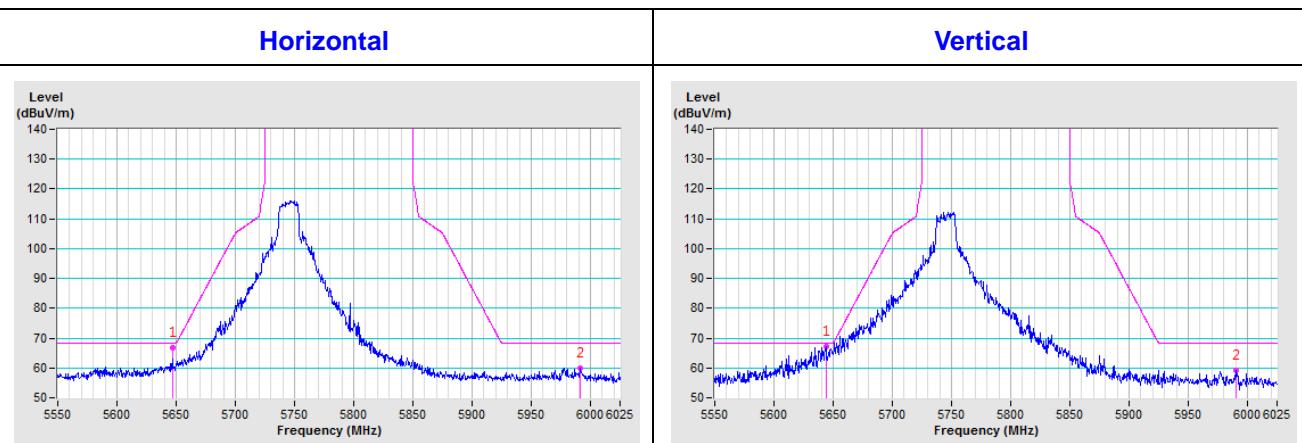
802.11ac (VHT20)
CH 149 5745 MHz

CH 157 5785 MHz

CH 165 5825 MHz


802.11ac (VHT40)
CH 151 5755 MHz

CH 159 5795 MHz

802.11ac (VHT80)
CH 155 5775 MHz


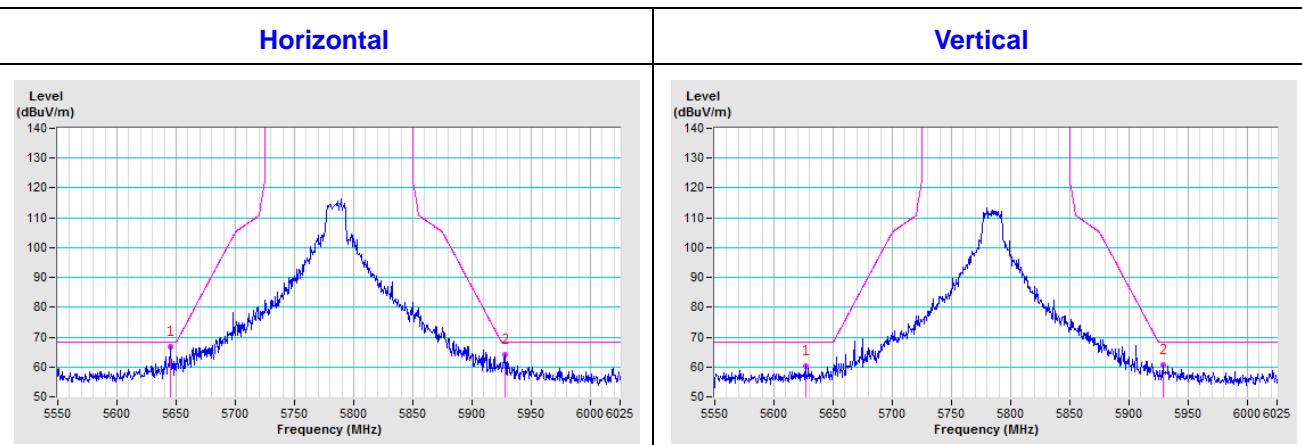
1TX Mode

802.11a

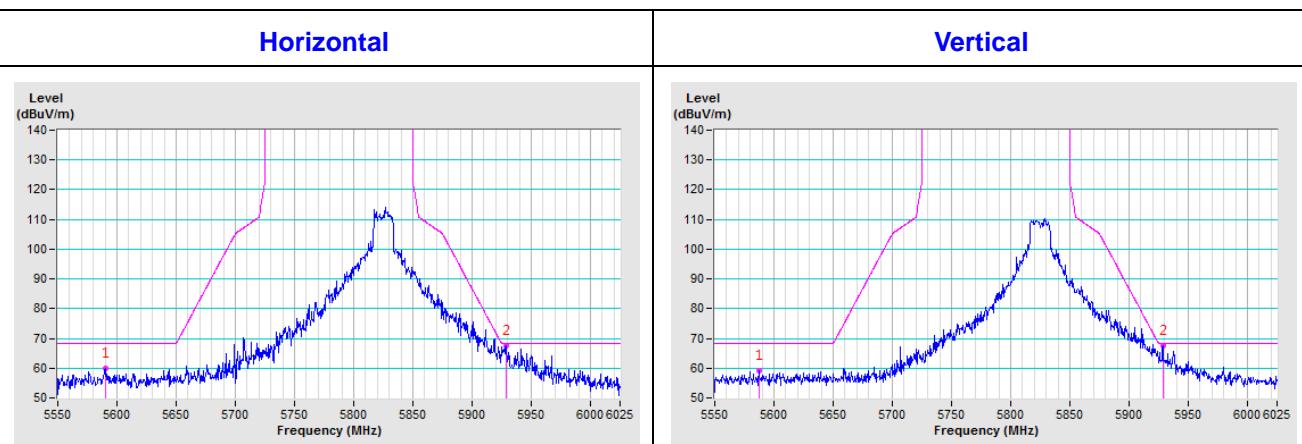
CH 149 5745 MHz

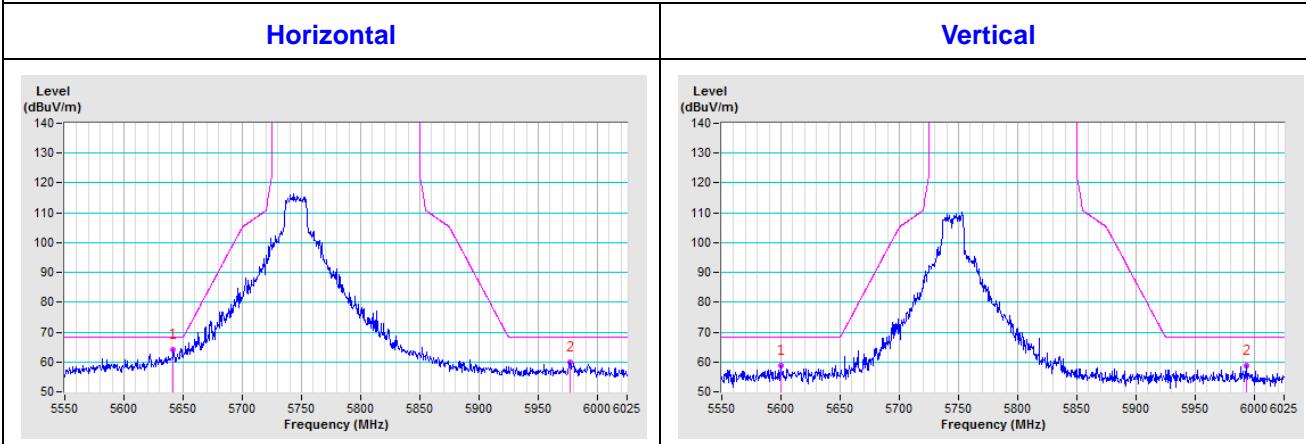
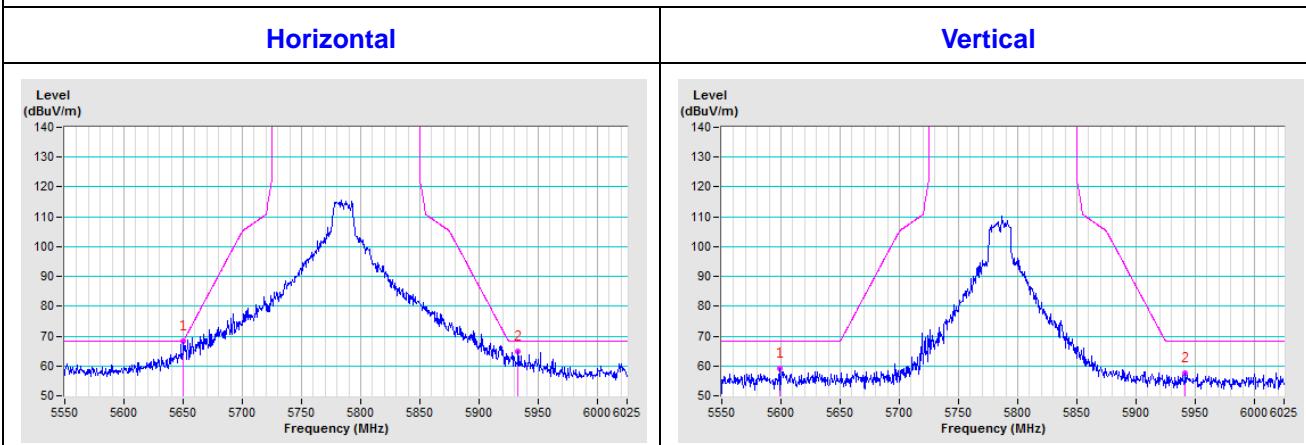
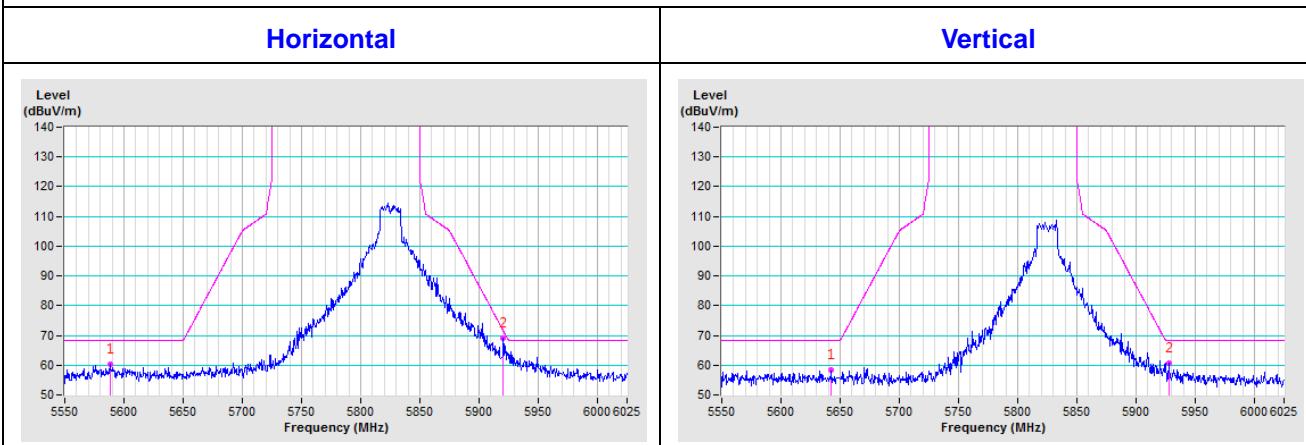


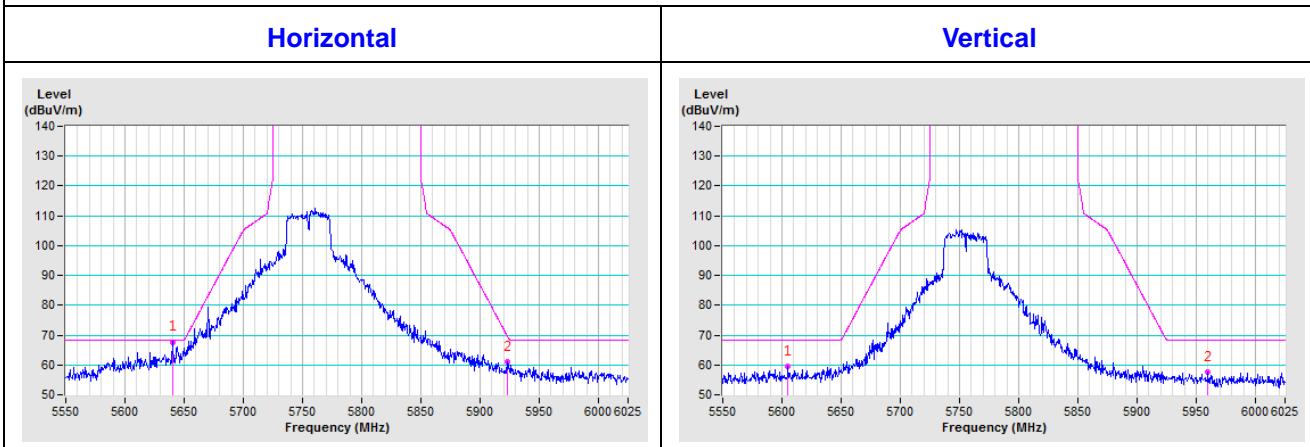
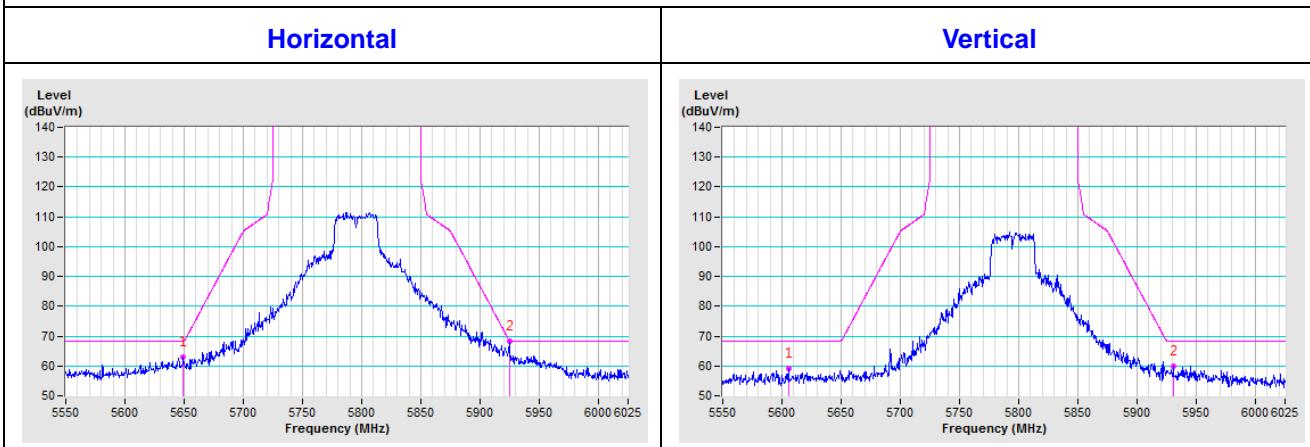
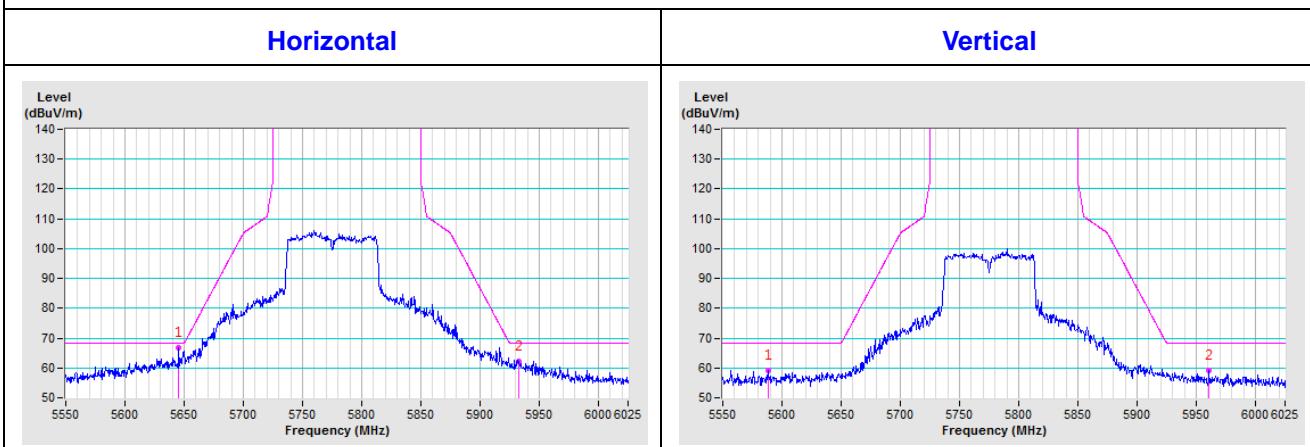
CH 157 5785 MHz



CH 165 5825 MHz



802.11ac (VHT20)
CH 149 5745 MHz

CH 157 5785 MHz

CH 165 5825 MHz


802.11ac (VHT40)
CH 151 5755 MHz

CH 159 5795 MHz

802.11ac (VHT80)
CH 155 5775 MHz


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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Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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