





TEST REPORT

| Applicant | Particle Industries,Inc |
|-----------|---|
| Address | 325 9th Street, San Francisco, CA 94103 United States |

| Manufacturer or Supplier | Particle Industries,Inc |
|-------------------------------------|---|
| Address | 325 9th Street, San Francisco, CA 94103 United States |
| Product | Wi-Fi Module |
| Brand Name | Particle |
| Model | P2 |
| Additional Model & Model Difference | N/A |
| Date of tests | Feb. 21, 2021 ~ Apr. 11, 2022 |

the tests have been carried out according to the requirements of the following standard:

☐ Canada RSS-Gen Issue 5 (2021-02)

CONCLUSION: The submitted sample was found to COMPLY with the test requirement

| Tested by Lucas Chen | Approved by Glyn He |
|-----------------------------------|------------------------------------|
| Project Engineer / EMC Department | Assistant Manager / EMC Department |

Date: May 19, 2022

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RELEASE CONTROL RECORD

| ISSUE NO. | REASON FOR CHANGE | DATE ISSUED |
|-----------------|-------------------|--------------|
| IC2202WDG0092-3 | Original release | May 19, 2022 |

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1 SUMMARY OF TEST RESULTS

The EUT has been tested according to the following specifications:

| APPLIED STANDARD: RSS-247, RSS-Gen | | | | |
|--|---|--------|--|--|
| Standard Section RSS-Gen | Test Type and Limit | Result | Remark | |
| 8.8 | AC Power Conducted Emission | PASS | Meet the requirement of limit | |
| 6.7 | Occupied Bandwidth Measurement | PASS | Meet the requirement of limit. | |
| Standard Section | Test Type and Limit | Result | Remark | |
| RSS-247 | Test Type and Limit | nesuit | nelliaik | |
| 6.2.1 (2) 6.2.2 (2) 6.2.3 (2) 6.2.4 (2) | Electric Field Strength Spurious Emissions, 30MHz ~ 40000MHz | PASS | Meet the requirement of limit | |
| 6.2.1 (1) 6.2.2 (1) 6.2.3 (1) 6.2.4 (1) | Transmit Power | PASS | Meet the requirement of limit | |
| 6.2.1 (1) 6.2.2 (1) 6.2.3 (1) 6.2.4 (1) | Peak Power Spectral Density | PASS | Meet the requirement of limit | |
| 6.2.4 (1) | 6dB bandwidth | PASS | Meet the requirement of limit. (5.725 ~ 5.850GHz Band only) | |

2 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 | UNCERTAINTY |
|---------------------|---------------|-------------|
| Conducted emissions | 9kHz~30MHz | 3.05dB |
| | 9KHz ~ 30MHz | 2.16dB |
| Radiated emissions | 30MHz ~ 1GMHz | 3.82dB |
| radiated emissions | 1GHz ~ 18GHz | 4.94dB |
| | 18GHz ~ 40GHz | 5.07dB |

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



3 GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF EUT

| PRODUCT | Wi-Fi Module | |
|------------------------|--|--|
| BRAND | Particle | |
| MODEL NO. | P2 | |
| ADDITIONAL MODEL | N/A | |
| IC ID | 20127-P2 | |
| POWER SUPPLY | DC 3.3V | |
| MODULATION TYPE | 256QAM, 64QAM, 16QAM, QPSK, BPSK for OFDM | |
| MODULATION TECHNOLOGY | OFDM | |
| TRANSFER RATE | 802.11a: 54.0/ 48.0/ 36.0/ 24.0/ 18.0/ 12.0/ 9.0/ 6.0Mbps 802.11n: up to 150Mbps 802.11ac : up to 200.0Mbps | |
| OPERATING FREQUENCY | 5180 ~ 5240MHz, 5260 ~ 5320MHz 5500 ~ 5700MHz, (without open 5600~5650MHz) 5745 ~ 5825MHz | |
| NUMBER OF CHANNEL | 5180 ~ 5240MHz: 4 channels for 802.11a, 802.11n,11ac (20MHz) 2 channels for 802.11n,11ac (40MHz): 5260 ~ 5320MHz: 4 channels for 802.11a, 802.11n (20MHz) 2 channels for 802.11n, 11ac (40MHz) 5500 ~ 5700MHz: 8 channels for 802.11a, 802.11n (20MHz) 3 channels for 802.11n (40MHz) 5745 ~ 5825MHz: 5 channels for 802.11a, 802.11n,11ac (20MHz) 2 channels for 802.11n,11ac (40MHz) | |
| CONDUCTED OUTPUT POWER | 81.283mW for 5180 ~ 5240MHz (Maximum AVG Power) 81.658mW for 5260 ~ 5320MHz (Maximum AVG Power) 97.949mW for 5500 ~ 5700MHz (Maximum AVG Power) 91.411mW for 5745 ~ 5825MHz (Maximum AVG Power) | |
| ANTENNA TYPE | 5180 ~ 5240MHz: PCB antenna with 1.28dBi gain External PCB Antenna with -0.32dBi gain 5260 ~ 5320MHz: PCB antenna with 1.60dBi gain External PCB Antenna with -0.08dBi gain 5500 ~ 5700MHz: (without open 5600~5650MHz) PCB antenna with 1.74dBi gain External PCB Antenna with 0.87dBi gain 5745 ~ 5825MHz: PCB antenna with 1.21dBi gain External PCB Antenna with 1.26dBi gain | |
| DATA CABLE | N/A | |

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NOTES:

- 1. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.
- 2. Please refer to the EUT photo document (Reference No.: 2202WDG0092-1) for detailed product photo.
- 3. The Wi-Fi Module uses two antennas, but couldn't transmit simultaneously, the antenna type and gain are different, and the antenna port is the same, so the RF conducted output power is the same.
 - EIRP(Band 1 only), PSD(Band 1 only), radiated emission and conducted emission have been evaluated for both antennas respectively, EIRP(Band 1 only) data and PSD(Band 1 only) data for both antennas are shown in the report, but only the worst antenna data (PCB antenna) is shown in the test report for the radiation spurious emission test and conducted emission.
- 4. The EUT provides completed transmitters and receivers, the EUT uses only one antenna at any time.

| MODULATION MODE | TX FUNCTION | |
|---------------------------------|-------------|--|
| 802.11a | 1TX/1RX | |
| 802.11n (HT20) 802.11ac (VHT20) | 1TX/1RX | |
| 802.11n (HT40) 802.11ac (VHT40) | 1TX/1RX | |

^{*} The modulation and bandwidth are similar for 802.11n mode for HT20 / HT40 and 802.11ac mode for VHT20 / VHT40, therefore investigated worst case for final test were chosen 802.11n (HT20/HT40) and record in the report.

5. Conformity Assessment Body Identifier (CABID): CN0026

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3.2 DESCRIPTION OF TEST MODES

FOR 5150 ~ 5250MHz

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

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 36 | 5180 MHz | 40 | 5200 MHz |
| 44 | 5220 MHz | 48 | 5240 MHz |

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

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 38 | 5190 MHz | 46 | 5230 MHz |

FOR 5250 ~ 5350MHz

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

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY | |
|---------|-----------|---------|-----------|--|
| 52 | 5260 MHz | 56 | 5280 MHz | |
| 60 | 5300 MHz | 64 | 5320 MHz | |

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

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY | |
|---------|-----------|---------|-----------|--|
| 54 | 5270 MHz | 62 | 5310 MHz | |

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FOR 5470 ~ 5725MHz

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

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

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

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

FOR 5725 ~ 5850MHz

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

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY |
|---------|-----------|---------|-----------|
| 149 | 5745MHz | 153 | 5765MHz |
| 157 | 5785MHz | 161 | 5805MHz |
| 165 | 5825MHz | - | |

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

| CHANNEL | FREQUENCY | CHANNEL | FREQUENCY | |
|---------|-----------|---------|-----------|--|
| 151 | 5755MHz | 159 | 5795MHz | |

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3.2.1 TEST MODE APPLICABILITY AND TESTED CHANNEL DETAIL

| EUT CONFIGURE | | APPLICA | ABLE TO | | DESCRIPTION |
|------------------|----------|---------|---------|------|---|
| MODE | RE≥1G | RE<1G | PLC | APCM | BESSILL HON |
| Α | √ | V | V | V | Powered by DC 3.3V from PCB base support with wifi(5G) link |

Where

RE≥1G: Radiated Emission above 1GHz **PLC:** Power Line Conducted Emission

RE<1G: Radiated Emission below 1GHz

APCM: Antenna Port Conducted Measurement

NOTE:

The EUT had been pre-tested on the positioned of each 3 axis. The worst case was found when positioned on X-plane.

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.

| EUT CONFIGURE MODE | MODE | FREQ. BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------------|-----------------|---------------------|----------------------|-------------------|--------------------------|--------------------|------------------------|
| | 802.11a | | 36 to 48 | 36, 44, 48 | OFDM | BPSK | 6.0 |
| | 802.11n (20MHz) | 5150-5250 | 36 to 48 | 36, 44, 48 | OFDM | BPSK | 6.5 |
| | 802.11n (40MHz) | | 38 to 46 | 38, 46 | OFDM | BPSK | 13.5 |
| | 802.11a | 5250-5350 | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6.0 |
| | 802.11n (20MHz) | | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6.5 |
| Α | 802.11n (40MHz) | | 54 to 62 | 54, 62 | OFDM | BPSK | 13.5 |
| ^ | 802.11a | | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 6.0 |
| | 802.11n (20MHz) | 5470-5725 | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 6.5 |
| | 802.11n (40MHz) | | 102 to 134 | 102, 110, 134 | OFDM | BPSK | 13.5 |
| | 802.11a | | 149 to 165 | 149, 157, 165 | OFDM | BPSK | 6.0 |
| | 802.11n (20MHz) | 5725-5850 | 149 to 165 | 149, 157, 165 | OFDM | BPSK | 6.5 |
| | 802.11n (40MHz) | | 151 to 159 | 151, 159 | OFDM | BPSK | 13.5 |

RADIATED EMISSION TEST (BELOW 1GHz):

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

| EUT CONFIGURE MODE | MODE | FREQ. BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|---------------------------------------|---------|------------------------|------------------------|-------------------|--------------------------|--------------------|------------------------|
| А | 802.11a | 5150-5250 5470-5725 | 36 to 48 100 to 140 | 36 | OFDM | BPSK | 6.0 |
| , , , , , , , , , , , , , , , , , , , | 002.11d | 5725-5850 | 149 to 165 | 00 | OI DIVI | ы | 0.0 |

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POWER LINE CONDUCTED EMISSION TEST:

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

| EUT CONFIGURE MODE | MODE | FREQ. BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------------|---------|-------------------------------------|--------------------------------------|-------------------|--------------------------|--------------------|------------------------|
| А | 802.11a | 5150-5250 5470-5725 5725-5850 | 36 to 48 100 to 140 149 to 165 | 36 | OFDM | BPSK | 6.0 |

ANTENNA PORT CONDUCTED MEASUREMENT:

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

| EUT CONFIGURE MODE | MODE | FREQ. BAND (MHz) | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION TECHNOLOGY | MODULATION TYPE | DATA RATE (Mbps) |
|--------------------------|-----------------|---------------------|----------------------|-------------------|--------------------------|--------------------|------------------------|
| | 802.11a | | 36 to 48 | 36, 44, 48 | OFDM | BPSK | 6.0 |
| | 802.11n (20MHz) | 5150-5250 | 36 to 48 | 36, 44, 48 | OFDM | BPSK | 6.5 |
| | 802.11n (40MHz) | | 38 to 46 | 38, 46 | OFDM | BPSK | 13.5 |
| | 802.11a | | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6.0 |
| | 802.11n (20MHz) | 5250-5350 | 52 to 64 | 52, 60, 64 | OFDM | BPSK | 6.5 |
| A | 802.11n (40MHz) | | 54 to 62 | 54, 62 | OFDM | BPSK | 13.5 |
| A | 802.11a | 5470-5725 | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 6.0 |
| | 802.11n (20MHz) | | 100 to 140 | 100, 116, 140 | OFDM | BPSK | 6.5 |
| | 802.11n (40MHz) | | 102 to 134 | 102, 110, 134 | OFDM | BPSK | 13.5 |
| | 802.11a | | 149 to 165 | 149, 157, 165 | OFDM | BPSK | 6.0 |
| | 802.11n (20MHz) | 5725-5850 | 149 to 165 | 149, 157, 165 | OFDM | BPSK | 6.5 |
| | 802.11n (40MHz) | | 151 to 159 | 151, 159 | OFDM | BPSK | 13.5 |

TEST CONDITION:

| APPLICABLE TO | ENVIRONMENTAL CONDITIONS | INPUT POWER | TESTED BY |
|---------------|--------------------------|-------------------------------|-----------|
| RE<1G | 25deg. C, 55%RH | DC 3.3V from PCB base support | Jelly |
| RE≥1G | 25deg. C, 55%RH | DC 3.3V from PCB base support | Jelly |
| PLC | 25deg. C, 58%RH | DC 3.3V from PCB base support | Summer |
| APCM | 25deg. C, 58%RH | DC 3.3V from PCB base support | Vincent |

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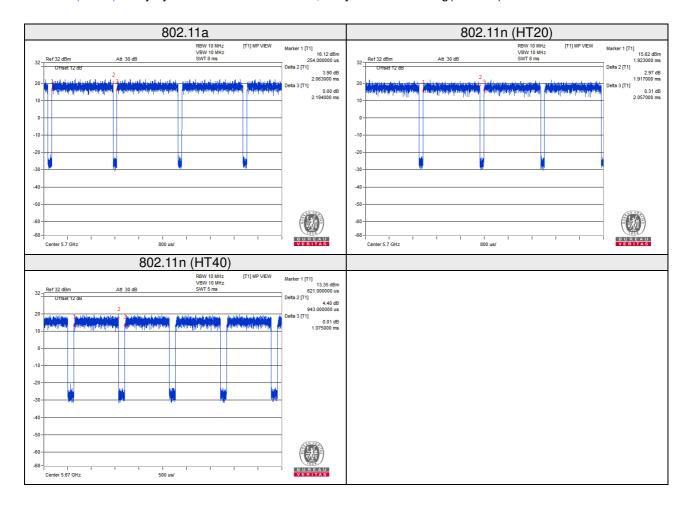


3.3 DUTY CYCLE OF TEST SIGNAL

802.11a: Duty cycle = 2.063/2.194 = 0.940, Duty factor = $10 * \log(1/0.940) = 0.269$

802.11n (HT20): Duty cycle = 1.917/2.057 = 0.932, Duty factor = 10 * log(1/0.932) = 0.306

802.11n (HT40): Duty cycle = 0.943/1.075 = 0.877, Duty factor = $10 * \log(1/0.877) = 0.570$



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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.

| NO. | PRODUCT | BRAND | MODEL NO. | SERIAL NO. | FCC ID |
|-----|------------------|-------|------------------|------------|--------|
| 1 | Notebook | DELL | Inspiron 13-7378 | GMSJZD2 | N/A |
| 2 | PCB base support | N/A | N/A | N/A | N/A |

| NO. | |
|-----|---|
| 1 | AC Line: Unshielded, Detachable 0.8m; DC Line: Unshielded, Non-detachable 1.8m; USB Cable: Shielded, Detachable, 0.5m |
| 2 | N/A |

3.5 GENERAL DESCRIPTION OF APPLIED STANDARDS

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

Canada RSS-247 Issue 2 (2017-02) Canada RSS-Gen Issue 5 (2021-02) ANSI C63.10-2013

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

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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 |

NOTES:

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

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4.1.2 LIMITS OF UNWANTED EMISSION OUT OF THE RESTRICTED BANDS

| Applicable To | Limit | | | |
|------------------------------|----------------------|---------------------------------|--|--|
| 789033 D02 General UNII Test | Field Strength at 3m | | | |
| Procedure New Rules v01r03 | PK:74 (dBμV/m) | AV:54 (dBμV/m) | | |
| Applicable To | Eirp Limit | Equivalent Field Strength at 3m | | |
| RSS-247 6.2.1 (2) | | | | |
| RSS-247 6.2.2 (2) | PK:-27 (dBm/MHz) | PK:68.2(dBμV/m) | | |
| RSS-247 6.2.3 (2) | | | | |
| RSS-247 6.2.4 (2) | Note | Note | | |

NOTE: For transmitters operating in the 5.725-5.85 GHz band:

All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

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

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

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4.1.3 TEST INSTRUMENTS

| Equipment | Manufacturer | Model No. | Serial No. | Next Cal. |
|--------------------------------------|---------------|------------------------------|-------------|-------------|
| EMI Test Receiver | Rohde&Schwarz | ESU40 | 100449 | Mar. 07, 23 |
| Signal and Spectrum Analyzer | Rohde&Schwarz | FSV7 | 102331 | May 09, 22 |
| Active Loop Antenna (9KHz -30MHz) | SCHWARZBECK | FMZB 1519B | 1519B-045 | May 20, 22 |
| Amplifier (9KHz -1GHz) | Burgeon | BPA-530 | 100210 | Mar. 13, 23 |
| Bilog Antenna (20MHz -2GHz) | Teseq | CBL 6111D | 30643 | May 21, 22 |
| Horn Antenna (1GHz -18GHz) | ETS -Lindgren | 3117 | 00062558 | May 21, 22 |
| Horn Antenna (18GHz -40GHz) | SCHWARZBECK | BBHA 9170 | BBHA9170147 | May 14, 22 |
| 3m Semi-anechoic Chamber | ETS-LINDGREN | 9m*6m*6m | NSEMC003 | May 22, 22 |
| Test Software | ADT | ADT_Radiated_V7 .6.15.9.2 | N/A | N/A |
| Broadband Preamplifier (1GHz~18GHz) | SCHWARZBECK | BBV9718 | 305 | May 12, 22 |
| Pre-Amplifier (18GHz-40GHz) | EMCI | EMC 184045 | 980102 | Jan. 10, 23 |
| Test Software | ADT | ADT_Radiated_V7 .6.15.9.2 | N/A | N/A |

NOTES:

- 1. The test was performed in 966 Chamber.
- 2. The calibration interval of the above test instruments are 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.
- 3. The horn antenna is used only for the measurement of emission frequency above1GHz if
- 4. The IC test Site Registration No. is 5936A.

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4.1.4 TEST PROCEDURES

- a. The EUT was placed on the top of a rotating table 1.5 meters (above 1GHz) and 0.8 meters (below 1GHz) above the ground at a 3 meters semi-anechoic chamber. 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. For below 1GHz was used bilog antenna, and above 1GHz was used horn antenna, and its height 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 Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
 - f. For below 30MHz, a loop antenna with its vertical plane is place 3m from the EUT and rotated about its vertical axis for maximum response at each azimuth about the EUT. And the centre of the loop shall be 1m above the ground.
 - g. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, For battery operated equipment, the equipment tests shall be perform using fresh batteries. The turntable was rotated to maximize the emission level.

NOTES:

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

4.1.5 DEVIATION FROM TEST STANDARD

No deviation.

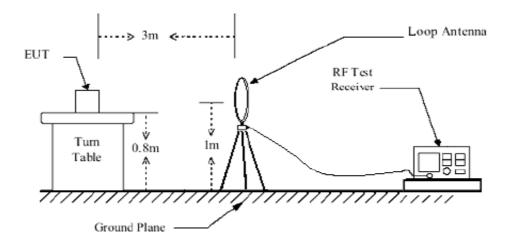
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D 47 440

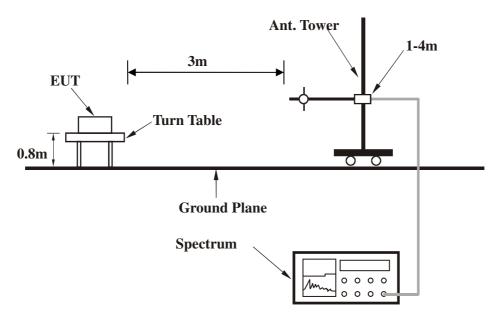


4.1.6 TEST SETUP

Below 30MHz test setup



Below 1GHz test setup

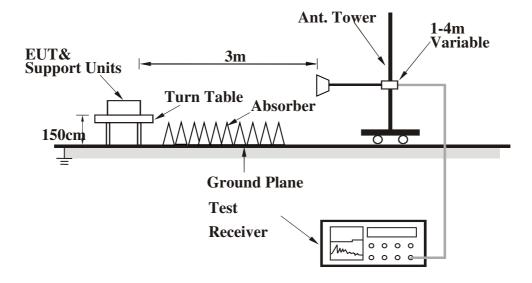


Note: For the actual test configuration, please refer to the attached file (Test Setup Photo).

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Above 1GHz test setup



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

4.1.7 EUT OPERATING CONDITION

- a. Set the EUT under full load condition and placed them on a testing table.
- b. Set the transmitter part of EUT under transmission condition continuously at specific channel frequency.
- c. The necessary accessories enable the EUT in full functions.

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4.1.8 TEST RESULTS

BELOW 1GHz WORST-CASE DATA

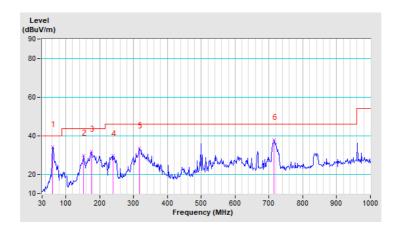
802.11a

| CHANNEL | TX Channel 36 | DETECTOR | Overi Deals (OD) | |
|-----------------|---------------|----------|------------------|--|
| FREQUENCY RANGE | 9KHz ~ 1GHz | FUNCTION | Quasi-Peak (QP) | |

| | 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 | 61.09 | 34.21 QP | 40.00 | -5.79 | 1.00 H | 67 | 52.58 | -18.37 | | |
| 2 | 152.80 | 29.73 QP | 43.50 | -13.77 | 1.00 H | 0 | 46.40 | -16.67 | | |
| 3 | 174.57 | 31.78 QP | 43.50 | -11.72 | 1.00 H | 56 | 49.52 | -17.74 | | |
| 4 | 239.86 | 29.51 QP | 46.00 | -16.49 | 1.00 H | 44 | 47.09 | -17.58 | | |
| 5 | 317.58 | 33.37 QP | 46.00 | -12.63 | 1.00 H | 6 | 48.53 | -15.16 | | |
| 6 | 715.53 | 37.82 QP | 46.00 | -8.18 | 1.00 H | 0 | 44.28 | -6.46 | | |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. 9KHz~30MHz have been test and test data more than 20dB margin.
- 5. Margin value = Emission level Limit value.



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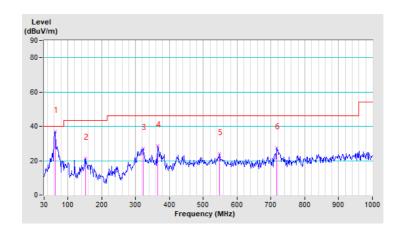


| CHANNEL | TX Channel 36 | DETECTOR | Overi Park (OP) |
|-----------------|---------------|----------|-----------------|
| FREQUENCY RANGE | 9KHz ~ 1GHz | FUNCTION | Quasi-Peak (QP) |

| | 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 | 62.64 | 36.84 QP | 40.00 | -3.16 | 1.00 V | 61 | 55.32 | -18.48 | | |
| 2 | 152.80 | 21.23 QP | 43.50 | -22.27 | 1.00 V | 46 | 37.90 | -16.67 | | |
| 3 | 322.24 | 27.10 QP | 46.00 | -18.90 | 1.00 V | 34 | 42.14 | -15.04 | | |
| 4 | 365.77 | 28.62 QP | 46.00 | -17.38 | 1.00 V | 23 | 42.55 | -13.93 | | |
| 5 | 547.64 | 23.86 QP | 46.00 | -22.14 | 1.00 V | 12 | 33.19 | -9.33 | | |
| 6 | 717.08 | 27.41 QP | 46.00 | -18.59 | 1.00 V | 2 | 33.85 | -6.44 | | |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. 9KHz~30MHz have been test and test data more than 20dB margin.
- 5. Margin value = Emission level Limit value.



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Band 1 (5150-5250MHz): ABOVE 1GHz DATA 802.11a

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

| | ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M | | | | | | | | |
|-----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | 5145.00 | 61.88 PK | 74.00 | -12.12 | 1.00 H | 154 | 56.09 | 5.79 | |
| 2 | 5145.00 | 45.57 AV | 54.00 | -8.43 | 1.00 H | 154 | 39.78 | 5.79 | |
| 3 | 5150.00 | 66.50 PK | 74.00 | -7.50 | 1.00 H | 154 | 60.70 | 5.80 | |
| 4 | 5150.00 | 50.98 AV | 54.00 | -3.02 | 1.00 H | 154 | 45.18 | 5.80 | |
| 5 | *5180.00 | 105.58 PK | | | 1.00 H | 154 | 99.72 | 5.86 | |
| 6 | *5180.00 | 95.44 AV | | | 1.00 H | 154 | 89.58 | 5.86 | |
| 7 | #10360.00 | 51.00 PK | 68.20 | -17.20 | 1.54 H | 166 | 37.60 | 13.40 | |
| 8 | 15540.00 | 54.96 PK | 74.00 | -19.04 | 1.23 H | 155 | 36.09 | 18.87 | |
| 9 | 15540.00 | 43.20 AV | 54.00 | -10.80 | 1.23 H | 155 | 24.33 | 18.87 | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | Peak (PK) Average (AV) | |
| 1 | 5145.00 | 60.21 PK | 74.00 | -13.79 | 1.00 V | 155 | 54.42 | 5.79 | |
| 2 | 5145.00 | 45.66 AV | 54.00 | -8.34 | 1.00 V | 155 | 39.87 | 5.79 | |
| 3 | 5150.00 | 63.87 PK | 74.00 | -10.13 | 1.00 V | 155 | 58.07 | 5.80 | |
| 4 | 5150.00 | 48.10 AV | 54.00 | -5.90 | 1.00 V | 155 | 42.30 | 5.80 | |
| 5 | *5180.00 | 103.73 PK | | | 1.00 V | 155 | 97.87 | 5.86 | |
| 6 | *5180.00 | 94.22 AV | | | 1.00 V | 155 | 88.36 | 5.86 | |
| 7 | #10360.00 | 51.44 PK | 68.20 | -16.76 | 1.21 V | 173 | 38.04 | 13.40 | |
| 8 | 15540.00 | 53.86 PK | 74.00 | -20.14 | 1.10 V | 148 | 34.99 | 18.87 | |
| 9 | 15540.00 | 42.89 AV | 54.00 | -11.11 | 1.10 V | 148 | 24.02 | 18.87 | |

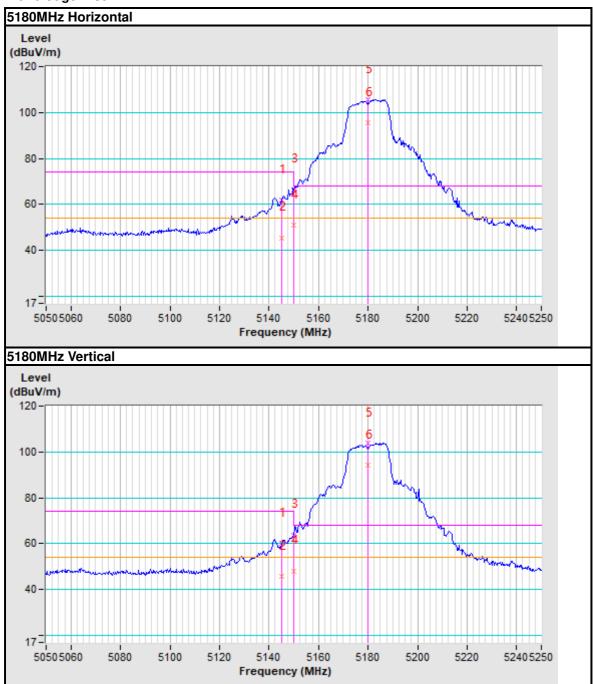
REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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Band edge Plot



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

| | | ANTENNA F | POLARITY 8 | R TEST DIS | TANCE : HO | RIZONTAL | AT 3 M | |
|-----|-----------------------|-------------------------------|-------------------|------------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 50.33 PK | 74.00 | -23.67 | 1.00 H | 177 | 44.54 | 5.79 |
| 2 | 5145.00 | 38.02 AV | 54.00 | -15.98 | 1.00 H | 177 | 32.23 | 5.79 |
| 3 | 5150.00 | 53.01 PK | 74.00 | -20.99 | 1.00 H | 177 | 47.21 | 5.80 |
| 4 | 5150.00 | 39.21 AV | 54.00 | -14.79 | 1.00 H | 177 | 33.41 | 5.80 |
| 5 | *5200.00 | 106.33 PK | | | 1.00 H | 177 | 100.44 | 5.89 |
| 6 | *5200.00 | 96.21 AV | | | 1.00 H | 177 | 90.32 | 5.89 |
| 7 | #10400.00 | 52.46 PK | 68.20 | -15.74 | 1.25 H | 156 | 38.95 | 13.51 |
| 8 | 15600.00 | 54.31 PK | 74.00 | -19.69 | 1.89 H | 165 | 35.35 | 18.96 |
| 9 | 15600.00 | 42.54 AV | 54.00 | -11.46 | 1.89 H | 165 | 23.58 | 18.96 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | - |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 50.00 PK | 74.00 | -24.00 | 1.25 V | 147 | 44.21 | 5.79 |
| 2 | 5145.00 | 37.96 AV | 54.00 | -16.04 | 1.25 V | 147 | 32.17 | 5.79 |
| 3 | 5150.00 | 50.89 PK | 74.00 | -23.11 | 1.25 V | 147 | 45.09 | 5.80 |
| 4 | 5150.00 | 39.10 AV | 54.00 | -14.90 | 1.25 V | 147 | 33.30 | 5.80 |
| 5 | *5200.00 | 104.91 PK | | | 1.25 V | 147 | 99.02 | 5.89 |
| Э | | | | | | | | |
| 6 | *5200.00 | 94.67 AV | | | 1.25 V | 147 | 88.78 | 5.89 |
| | *5200.00 #10400.00 | 94.67 AV 51.02 PK | 68.20 | -17.18 | 1.25 V 1.00 V | 147 156 | 88.78 37.51 | 5.89 13.51 |
| 6 | | | 68.20 74.00 | -17.18 -19.68 | _ | | | |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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

| | | ANTENNA F | POLARITY 8 | TEST DIS | TANCE : HO | RIZONTAL | AT 3 M | |
|----------------------------|--|---|---|--|--|--|---|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 45.21 PK | 74.00 | -28.79 | 1.44 H | 126 | 39.42 | 5.79 |
| 2 | 5145.00 | 35.00 AV | 54.00 | -19.00 | 1.44 H | 126 | 29.21 | 5.79 |
| 3 | 5150.00 | 46.77 PK | 74.00 | -27.23 | 1.44 H | 126 | 40.97 | 5.80 |
| 4 | 5150.00 | 35.54 AV | 54.00 | -18.46 | 1.44 H | 126 | 29.74 | 5.80 |
| 5 | *5240.00 | 104.93 PK | | | 1.44 H | 126 | 98.96 | 5.97 |
| 6 | *5240.00 | 94.66 AV | | | 1.44 H | 126 | 88.69 | 5.97 |
| 7 | 5350.00 | 53.21 PK | 74.00 | -20.79 | 1.44 H | 126 | 47.04 | 6.17 |
| 8 | 5350.00 | 36.58 AV | 54.00 | -17.42 | 1.44 H | 126 | 30.41 | 6.17 |
| 9 | 5355.00 | 51.65 PK | 74.00 | -22.35 | 1.44 H | 126 | 45.47 | 6.18 |
| 10 | 5355.00 | 35.21 AV | 54.00 | -18.79 | 1.44 H | 126 | 29.03 | 6.18 |
| 11 | #10480.00 | 51.20 PK | 68.20 | -17.00 | 1.00 H | 168 | 37.45 | 13.75 |
| 12 | 15720.00 | 53.96 PK | 74.00 | -20.04 | 1.36 H | 46 | 34.81 | 19.15 |
| 13 | 15720.00 | 43.02 AV | 54.00 | -10.98 | 1.36 H | 46 | 23.87 | 19.15 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 46.51 PK | 74.00 | 07.40 | | | | |
| 2 | | | 74.00 | -27.49 | 1.00 V | 156 | 40.72 | 5.79 |
| | 5145.00 | 35.44 AV | 54.00 | -27.49 -18.56 | 1.00 V 1.00 V | 156 156 | 40.72 29.65 | 5.79 5.79 |
| 3 | 5145.00 5150.00 | | | | | | | |
| 3 | | 35.44 AV | 54.00 | -18.56 | 1.00 V | 156 | 29.65 | 5.79 |
| | 5150.00 | 35.44 AV 46.95 PK | 54.00 74.00 | -18.56 -27.05 | 1.00 V 1.00 V | 156 156 | 29.65 41.15 | 5.79 5.80 |
| 4 | 5150.00 5150.00 | 35.44 AV 46.95 PK 36.65 AV | 54.00 74.00 | -18.56 -27.05 | 1.00 V 1.00 V 1.00 V | 156 156 156 | 29.65 41.15 30.85 | 5.79 5.80 5.80 |
| 4 5 | 5150.00 5150.00 *5240.00 | 35.44 AV 46.95 PK 36.65 AV 105.21 PK | 54.00 74.00 | -18.56 -27.05 | 1.00 V 1.00 V 1.00 V 1.00 V | 156 156 156 156 | 29.65 41.15 30.85 99.24 | 5.79 5.80 5.80 5.97 |
| 4 5 6 | 5150.00 5150.00 *5240.00 *5240.00 | 35.44 AV 46.95 PK 36.65 AV 105.21 PK 95.69 AV | 54.00 74.00 54.00 | -18.56 -27.05 -17.35 | 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V | 156 156 156 156 156 | 29.65 41.15 30.85 99.24 89.72 | 5.79 5.80 5.80 5.97 5.97 |
| 4 5 6 7 | 5150.00 5150.00 *5240.00 *5240.00 5350.00 | 35.44 AV 46.95 PK 36.65 AV 105.21 PK 95.69 AV 52.45 PK | 54.00 74.00 54.00 74.00 | -18.56 -27.05 -17.35 -21.55 | 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V | 156 156 156 156 156 156 | 29.65 41.15 30.85 99.24 89.72 46.28 | 5.79 5.80 5.80 5.97 5.97 6.17 |
| 4 5 6 7 8 | 5150.00 5150.00 *5240.00 *5240.00 5350.00 | 35.44 AV 46.95 PK 36.65 AV 105.21 PK 95.69 AV 52.45 PK 36.98 AV | 54.00 74.00 54.00 74.00 54.00 | -18.56 -27.05 -17.35 -21.55 -17.02 | 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V | 156 156 156 156 156 156 156 | 29.65 41.15 30.85 99.24 89.72 46.28 30.81 | 5.79 5.80 5.80 5.97 5.97 6.17 6.17 |
| 4 5 6 7 8 | 5150.00 5150.00 *5240.00 *5240.00 5350.00 5350.00 5355.00 | 35.44 AV 46.95 PK 36.65 AV 105.21 PK 95.69 AV 52.45 PK 36.98 AV 50.24 PK | 54.00 74.00 54.00 74.00 54.00 74.00 | -18.56 -27.05 -17.35 -21.55 -17.02 -23.76 | 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V | 156 156 156 156 156 156 156 | 29.65 41.15 30.85 99.24 89.72 46.28 30.81 44.06 | 5.79 5.80 5.80 5.97 5.97 6.17 6.17 6.18 |
| 4 5 6 7 8 9 | 5150.00 5150.00 *5240.00 *5240.00 5350.00 5350.00 5355.00 5355.00 | 35.44 AV 46.95 PK 36.65 AV 105.21 PK 95.69 AV 52.45 PK 36.98 AV 50.24 PK 35.98 AV | 74.00 74.00 54.00 74.00 54.00 74.00 54.00 | -18.56 -27.05 -17.35 -21.55 -17.02 -23.76 -18.02 | 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V | 156 156 156 156 156 156 156 156 | 29.65 41.15 30.85 99.24 89.72 46.28 30.81 44.06 29.80 | 5.79 5.80 5.80 5.97 5.97 6.17 6.17 6.18 |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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802.11n (20MHz)

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

| | | ANTENNA F | POLARITY 8 | k TEST DIS | TANCE : HO | RIZONTAL | AT 3 M | |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 67.37 PK | 74.00 | -6.63 | 1.00 H | 148 | 61.58 | 5.79 |
| 2 | 5145.00 | 48.25 AV | 54.00 | -5.75 | 1.00 H | 148 | 42.46 | 5.79 |
| 3 | 5150.00 | 68.64 PK | 74.00 | -5.36 | 1.00 H | 148 | 62.84 | 5.80 |
| 4 | 5150.00 | 50.50 AV | 54.00 | -3.50 | 1.00 H | 148 | 44.70 | 5.80 |
| 5 | *5180.00 | 104.77 PK | | | 1.00 H | 148 | 98.91 | 5.86 |
| 6 | *5180.00 | 95.14 AV | | | 1.00 H | 148 | 89.28 | 5.86 |
| 7 | #10360.00 | 51.25 PK | 68.20 | -16.95 | 1.00 H | 186 | 37.85 | 13.40 |
| 8 | 15540.00 | 52.96 PK | 74.00 | -21.04 | 1.15 H | 214 | 34.09 | 18.87 |
| 9 | 15540.00 | 41.86 AV | 54.00 | -12.14 | 1.15 H | 214 | 22.99 | 18.87 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | _ |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 65.40 PK | 74.00 | -8.60 | 1.00 V | 38 | 59.61 | 5.79 |
| 2 | 5145.00 | 45.65 AV | 54.00 | -8.35 | 1.00 V | 38 | 39.86 | 5.79 |
| 3 | 5150.00 | 66.85 PK | 74.00 | -7.15 | 1.00 V | 38 | 61.05 | 5.80 |
| 4 | 5150.00 | 48.52 AV | 54.00 | -5.48 | 1.00 V | 38 | 42.72 | 5.80 |
| 5 | *5180.00 | 103.74 PK | | | 1.00 V | 38 | 97.88 | 5.86 |
| 6 | *5180.00 | 93.68 AV | | | 1.00 V | 38 | 87.82 | 5.86 |
| 7 | #10360.00 | 51.56 PK | 68.20 | -16.64 | 1.00 V | 136 | 38.16 | 13.40 |
| 8 | 15540.00 | 53.12 PK | 74.00 | -20.88 | 1.21 V | 145 | 34.25 | 18.87 |
| 9 | 15540.00 | 42.10 AV | 54.00 | -11.90 | 1.21 V | 145 | 23.23 | 18.87 |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

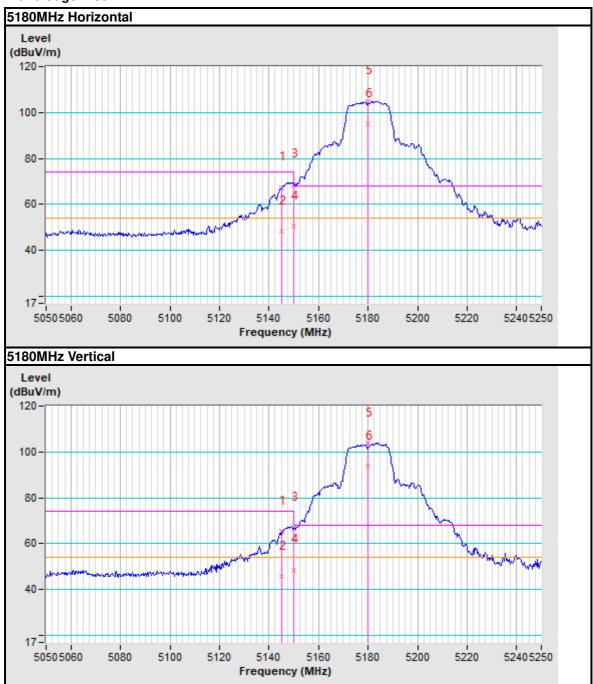
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Band edge Plot



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

| | | ANTENNA F | POLARITY 8 | k TEST DIS | TANCE : HO | RIZONTAL | AT 3 M | |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 50.26 PK | 74.00 | -23.74 | 1.29 H | 189 | 44.47 | 5.79 |
| 2 | 5145.00 | 38.54 AV | 54.00 | -15.46 | 1.29 H | 189 | 32.75 | 5.79 |
| 3 | 5150.00 | 51.54 PK | 74.00 | -22.46 | 1.29 H | 189 | 45.74 | 5.80 |
| 4 | 5150.00 | 39.51 AV | 54.00 | -14.49 | 1.29 H | 189 | 33.71 | 5.80 |
| 5 | *5200.00 | 105.00 PK | | | 1.29 H | 189 | 99.11 | 5.89 |
| 6 | *5200.00 | 95.64 AV | | | 1.29 H | 189 | 89.75 | 5.89 |
| 7 | #10400.00 | 52.36 PK | 68.20 | -15.84 | 1.00 H | 154 | 38.85 | 13.51 |
| 8 | 15600.00 | 53.62 PK | 74.00 | -20.38 | 1.00 H | 159 | 34.66 | 18.96 |
| 9 | 15600.00 | 42.36 AV | 54.00 | -11.64 | 1.00 H | 159 | 23.40 | 18.96 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 48.95 PK | 74.00 | -25.05 | 1.00 V | 125 | 43.16 | 5.79 |
| 2 | 5145.00 | 36.54 AV | 54.00 | -17.46 | 1.00 V | 125 | 30.75 | 5.79 |
| 3 | 5150.00 | 50.67 PK | 74.00 | -23.33 | 1.00 V | 125 | 44.87 | 5.80 |
| 4 | 5150.00 | 39.11 AV | 54.00 | -14.89 | 1.00 V | 125 | 33.31 | 5.80 |
| 5 | *5200.00 | 104.06 PK | | | 1.00 V | 125 | 98.17 | 5.89 |
| 6 | *5200.00 | 94.68 AV | | | 1.00 V | 125 | 88.79 | 5.89 |
| 7 | #10400.00 | 52.15 PK | 68.20 | -16.05 | 1.55 V | 123 | 38.64 | 13.51 |
| 8 | 15600.00 | 54.25 PK | 74.00 | -19.75 | 1.56 V | 123 | 35.29 | 18.96 |
| 9 | 15600.00 | 42.31 AV | 54.00 | -11.69 | 1.56 V | 123 | 23.35 | 18.96 |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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

| | | ANTENNA F | POLARITY 8 | TEST DIS | TANCE : HO | RIZONTAL | AT 3 M | |
|-----------------------|--|---|---|--|--|--|--|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 49.65 PK | 74.00 | -24.35 | 1.45 H | 126 | 43.86 | 5.79 |
| 2 | 5145.00 | 38.54 AV | 54.00 | -15.46 | 1.45 H | 126 | 32.75 | 5.79 |
| 3 | 5150.00 | 52.11 PK | 74.00 | -21.89 | 1.45 H | 126 | 46.31 | 5.80 |
| 4 | 5150.00 | 41.36 AV | 54.00 | -12.64 | 1.45 H | 126 | 35.56 | 5.80 |
| 5 | *5240.00 | 105.02 PK | | | 1.45 H | 126 | 99.05 | 5.97 |
| 6 | *5240.00 | 95.36 AV | | | 1.45 H | 126 | 89.39 | 5.97 |
| 7 | 5350.00 | 53.11 PK | 74.00 | -20.89 | 1.45 H | 126 | 46.94 | 6.17 |
| 8 | 5350.00 | 42.68 AV | 54.00 | -11.32 | 1.45 H | 126 | 36.51 | 6.17 |
| 9 | 5355.00 | 52.67 PK | 74.00 | -21.33 | 1.45 H | 126 | 46.49 | 6.18 |
| 10 | 5355.00 | 42.10 AV | 54.00 | -11.90 | 1.45 H | 126 | 35.92 | 6.18 |
| 11 | #10480.00 | 52.48 PK | 68.20 | -15.72 | 1.00 H | 176 | 38.73 | 13.75 |
| 12 | 15720.00 | 54.36 PK | 74.00 | -19.64 | 1.00 H | 136 | 35.21 | 19.15 |
| 13 | 15720.00 | 42.61 AV | 54.00 | -11.39 | 1.00 H | 136 | 23.46 | 19.15 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 50.09 PK | 74.00 | -23.91 | 1.20 V | 225 | 44.30 | 5.79 |
| 2 | 5145.00 | 39.00 AV | 54.00 | -15.00 | 1.20 V | 225 | 33.21 | 5.79 |
| 3 | E4E0.00 | | | | 1.20 V | | 00.2 | 0.70 |
| | 5150.00 | 51.32 PK | 74.00 | -22.68 | 1.20 V | 225 | 45.52 | 5.80 |
| 4 | 5150.00 | 51.32 PK 41.65 AV | 74.00 54.00 | -22.68 -12.35 | | | | |
| 4 5 | | | | | 1.20 V | 225 | 45.52 | 5.80 |
| | 5150.00 | 41.65 AV | | | 1.20 V 1.20 V | 225 225 | 45.52 35.85 | 5.80 5.80 |
| 5 | 5150.00 *5240.00 | 41.65 AV 104.05 PK | | | 1.20 V 1.20 V 1.20 V | 225 225 225 225 | 45.52 35.85 98.08 | 5.80 5.80 5.97 |
| 5 | 5150.00 *5240.00 *5240.00 | 41.65 AV 104.05 PK 94.36 AV | 54.00 | -12.35 | 1.20 V 1.20 V 1.20 V 1.20 V | 225 225 225 225 225 | 45.52 35.85 98.08 88.39 | 5.80 5.80 5.97 5.97 |
| 5 6 7 | 5150.00 *5240.00 *5240.00 5350.00 | 41.65 AV 104.05 PK 94.36 AV 53.42 PK | 54.00 74.00 | -12.35 -20.58 | 1.20 V 1.20 V 1.20 V 1.20 V 1.20 V | 225 225 225 225 225 225 | 45.52 35.85 98.08 88.39 47.25 | 5.80 5.80 5.97 5.97 6.17 |
| 5 6 7 8 | 5150.00 *5240.00 *5240.00 5350.00 5350.00 | 41.65 AV 104.05 PK 94.36 AV 53.42 PK 42.00 AV | 74.00 54.00 | -12.35 -20.58 -12.00 | 1.20 V 1.20 V 1.20 V 1.20 V 1.20 V 1.20 V | 225 225 225 225 225 225 225 | 45.52 35.85 98.08 88.39 47.25 35.83 | 5.80 5.80 5.97 5.97 6.17 6.17 |
| 5 6 7 8 9 | 5150.00 *5240.00 *5240.00 5350.00 5350.00 5355.00 | 41.65 AV 104.05 PK 94.36 AV 53.42 PK 42.00 AV 52.69 PK | 74.00 54.00 74.00 74.00 | -12.35 -20.58 -12.00 -21.31 | 1.20 V 1.20 V 1.20 V 1.20 V 1.20 V 1.20 V 1.20 V | 225 225 225 225 225 225 225 225 | 45.52 35.85 98.08 88.39 47.25 35.83 46.51 | 5.80 5.80 5.97 5.97 6.17 6.17 6.18 |
| 5 6 7 8 9 | 5150.00 *5240.00 *5240.00 5350.00 5350.00 5355.00 | 41.65 AV 104.05 PK 94.36 AV 53.42 PK 42.00 AV 52.69 PK 42.21 AV | 74.00 54.00 74.00 54.00 74.00 | -12.35 -20.58 -12.00 -21.31 -11.79 | 1.20 V 1.20 V 1.20 V 1.20 V 1.20 V 1.20 V 1.20 V 1.20 V | 225 225 225 225 225 225 225 225 225 225 | 45.52 35.85 98.08 88.39 47.25 35.83 46.51 36.03 | 5.80 5.80 5.97 5.97 6.17 6.17 6.18 6.18 |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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802.11n (40MHz)

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

| | | ANTENNA F | POLARITY 8 | TEST DIS | TANCE · HO | RIZONTAL | ΔT 3 M | |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 62.86 PK | 74.00 | -11.14 | 1.67 H | 80 | 57.07 | 5.79 |
| 2 | 5145.00 | 45.96 AV | 54.00 | -8.04 | 1.67 H | 80 | 40.17 | 5.79 |
| 3 | 5150.00 | 68.00 PK | 74.00 | -6.00 | 1.67 H | 80 | 62.20 | 5.80 |
| 4 | 5150.00 | 49.75 AV | 54.00 | -4.25 | 1.67 H | 80 | 43.95 | 5.80 |
| 5 | *5190.00 | 100.00 PK | | | 1.67 H | 80 | 94.12 | 5.88 |
| 6 | *5190.00 | 90.76 AV | | | 1.67 H | 80 | 84.88 | 5.88 |
| 7 | #10380.00 | 51.57 PK | 68.20 | -16.63 | 1.54 H | 122 | 38.11 | 13.46 |
| 8 | 15570.00 | 53.61 PK | 74.00 | -20.39 | 1.24 H | 156 | 34.69 | 18.92 |
| 9 | 15570.00 | 42.11 AV | 54.00 | -11.89 | 1.24 H | 156 | 23.19 | 18.92 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 61.91 PK | 74.00 | -12.09 | 1.00 V | 125 | 56.12 | 5.79 |
| 2 | 5145.00 | 39.69 AV | 54.00 | -14.31 | 1.00 V | 125 | 33.90 | 5.79 |
| 3 | 5150.00 | 64.23 PK | 74.00 | -9.77 | 1.00 V | 125 | 58.43 | 5.80 |
| 4 | 5150.00 | 41.36 AV | 54.00 | -12.64 | 1.00 V | 125 | 35.56 | 5.80 |
| 5 | *5190.00 | 98.50 PK | | | 1.00 V | 125 | 92.62 | 5.88 |
| 6 | *5190.00 | 88.98 AV | | | 1.00 V | 125 | 83.10 | 5.88 |
| 7 | #10380.00 | 51.36 PK | 68.20 | -16.84 | 1.44 V | 125 | 37.90 | 13.46 |
| 8 | 15570.00 | 53.75 PK | 74.00 | -20.25 | 1.02 V | 156 | 34.83 | 18.92 |
| 9 | 15570.00 | 42.66 AV | 54.00 | -11.34 | 1.02 V | 156 | 23.74 | 18.92 |

REMARKS:

Dongguan Branch

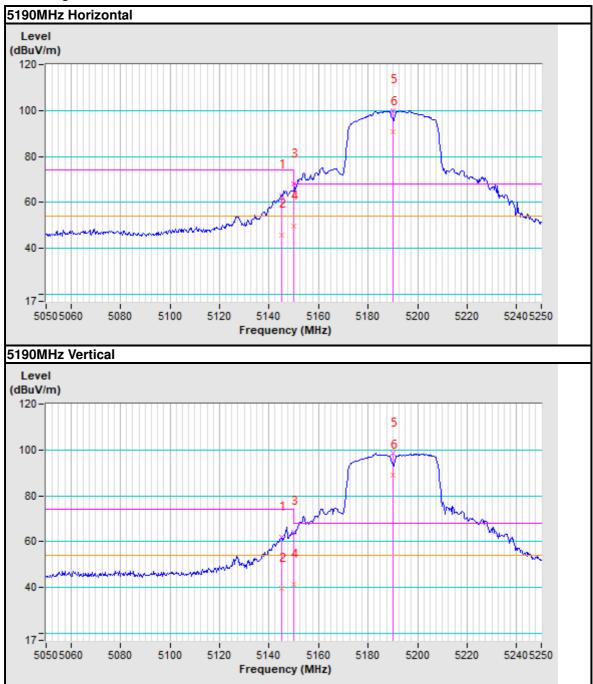
- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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Band edge Plot



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| CHANNEL | TX Channel 46 | DETECTOR | Peak (PK) |
|-----------------|---------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | 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 | 5145.00 | 49.32 PK | 74.00 | -24.68 | 1.45 H | 177 | 43.53 | 5.79 | | |
| 2 | 5145.00 | 39.55 AV | 54.00 | -14.45 | 1.45 H | 177 | 33.76 | 5.79 | | |
| 3 | 5150.00 | 53.15 PK | 74.00 | -20.85 | 1.45 H | 177 | 47.35 | 5.80 | | |
| 4 | 5150.00 | 42.36 AV | 54.00 | -11.64 | 1.45 H | 177 | 36.56 | 5.80 | | |
| 5 | *5230.00 | 103.11 PK | | | 1.45 H | 177 | 97.16 | 5.95 | | |
| 6 | *5230.00 | 92.68 AV | | | 1.45 H | 177 | 86.73 | 5.95 | | |
| 7 | #10460.00 | 51.02 PK | 68.20 | -17.18 | 1.00 H | 156 | 37.34 | 13.68 | | |
| 8 | 15690.00 | 54.33 PK | 74.00 | -19.67 | 1.25 H | 125 | 35.23 | 19.10 | | |
| 9 | 15690.00 | 42.65 AV | 54.00 | -11.35 | 1.25 H | 125 | 23.55 | 19.10 | | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | 5145.00 | 49.56 PK | 74.00 | -24.44 | 1.45 V | 177 | 43.77 | 5.79 | | |
| 2 | 5145.00 | 40.25 AV | 54.00 | -13.75 | 1.45 V | 177 | 34.46 | 5.79 | | |
| 3 | 5150.00 | 52.66 PK | 74.00 | -21.34 | 1.45 V | 177 | 46.86 | 5.80 | | |
| 4 | 5150.00 | 42.56 AV | 54.00 | -11.44 | 1.45 V | 177 | 36.76 | 5.80 | | |
| 5 | *5230.00 | 99.56 PK | | | 1.45 V | 177 | 93.61 | 5.95 | | |
| 6 | *5230.00 | 89.66 AV | | | 1.45 V | 177 | 83.71 | 5.95 | | |
| 7 | #10460.00 | 51.23 PK | 68.20 | -16.97 | 1.00 V | 156 | 37.55 | 13.68 | | |
| 8 | 15690.00 | 54.36 PK | 74.00 | -19.64 | 1.25 V | 125 | 35.26 | 19.10 | | |
| 9 | 15690.00 | 42.73 AV | 54.00 | -11.27 | 1.25 V | 125 | 23.63 | 19.10 | | |

REMARKS:

Dongguan Branch

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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Band 2 (5250-5350MHz): ABOVE 1GHz DATA 802.11a

| CHANNEL | TX Channel 52 | DETECTOR | Peak (PK) |
|-----------------|---------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | 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 | 5145.00 | 53.24 PK | 74.00 | -20.76 | 1.00 H | 230 | 47.45 | 5.79 | | |
| 2 | 5145.00 | 41.52 AV | 54.00 | -12.48 | 1.00 H | 230 | 35.73 | 5.79 | | |
| 3 | 5150.00 | 55.43 PK | 74.00 | -18.57 | 1.00 H | 230 | 49.63 | 5.80 | | |
| 4 | 5150.00 | 42.15 AV | 54.00 | -11.85 | 1.00 H | 230 | 36.35 | 5.80 | | |
| 5 | *5260.00 | 104.56 PK | | | 1.00 H | 230 | 98.56 | 6.00 | | |
| 6 | *5260.00 | 95.21 AV | | | 1.00 H | 230 | 89.21 | 6.00 | | |
| 7 | 5350.00 | 55.32 PK | 74.00 | -18.68 | 1.00 H | 230 | 49.15 | 6.17 | | |
| 8 | 5350.00 | 42.36 AV | 54.00 | -11.64 | 1.00 H | 230 | 36.19 | 6.17 | | |
| 9 | 5355.00 | 54.15 PK | 74.00 | -19.85 | 1.00 H | 230 | 47.97 | 6.18 | | |
| 10 | 5355.00 | 42.25 AV | 54.00 | -11.75 | 1.00 H | 230 | 36.07 | 6.18 | | |
| 11 | #10520.00 | 53.00 PK | 68.20 | -15.20 | 1.27 H | 139 | 39.18 | 13.82 | | |
| 12 | 15780.00 | 54.89 PK | 74.00 | -19.11 | 1.47 H | 135 | 35.66 | 19.23 | | |
| 13 | 15780.00 | 42.56 AV | 54.00 | -11.44 | 1.47 H | 135 | 23.33 | 19.23 | | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | - | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | 5145.00 | 53.69 PK | 74.00 | -20.31 | 1.00 V | 39 | 47.90 | 5.79 | | |
| 2 | 5145.00 | 41.99 AV | 54.00 | -12.01 | 1.00 V | 39 | 36.20 | 5.79 | | |
| 3 | 5150.00 | 56.36 PK | 74.00 | -17.64 | 1.00 V | 39 | 50.56 | 5.80 | | |
| 4 | 5150.00 | 42.36 AV | 54.00 | -11.64 | 1.00 V | 39 | 36.56 | 5.80 | | |
| 5 | *5260.00 | 103.95 PK | | | 1.00 V | 39 | 97.95 | 6.00 | | |
| 6 | *5260.00 | 94.66 AV | | | 1.00 V | 39 | 88.66 | 6.00 | | |
| 7 | 5350.00 | 56.78 PK | 74.00 | -17.22 | 1.00 V | 39 | 50.61 | 6.17 | | |
| 8 | 5350.00 | 43.65 AV | 54.00 | -10.35 | 1.00 V | 39 | 37.48 | 6.17 | | |
| 9 | 5355.00 | 54.69 PK | 74.00 | -19.31 | 1.00 V | 39 | 48.51 | 6.18 | | |
| 10 | 5355.00 | 42.36 AV | 54.00 | -11.64 | 1.00 V | 39 | 36.18 | 6.18 | | |
| 11 | #10520.00 | 52.66 PK | 68.20 | -15.54 | 1.27 V | 139 | 38.84 | 13.82 | | |
| 12 | 15780.00 | 54.61 PK | 74.00 | -19.39 | 1.47 V | 135 | 35.38 | 19.23 | | |
| 13 | 15780.00 | 42.39 AV | 54.00 | -11.61 | 1.47 V | 135 | 23.16 | 19.23 | | |

REMARKS:

- 1. Emission level $(dBuV/m) = Raw\ Value\ (dBuV) + Correction\ Factor\ (dB/m)$.
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 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 60 | DETECTOR | Peak (PK) |
|-----------------|---------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | 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 | *5300.00 | 104.56 PK | | | 1.93 H | 115 | 98.48 | 6.08 | | |
| 2 | *5300.00 | 95.11 AV | | | 1.93 H | 115 | 89.03 | 6.08 | | |
| 3 | 5350.00 | 54.21 PK | 74.00 | -19.79 | 1.93 H | 115 | 48.04 | 6.17 | | |
| 4 | 5350.00 | 43.68 AV | 54.00 | -10.32 | 1.93 H | 115 | 37.51 | 6.17 | | |
| 5 | 5355.00 | 53.60 PK | 74.00 | -20.40 | 1.93 H | 115 | 47.42 | 6.18 | | |
| 6 | 5355.00 | 42.36 AV | 54.00 | -11.64 | 1.93 H | 115 | 36.18 | 6.18 | | |
| 7 | 10600.00 | 53.11 PK | 74.00 | -20.89 | 1.00 H | 157 | 39.20 | 13.91 | | |
| 8 | 10600.00 | 42.15 AV | 54.00 | -11.85 | 1.00 H | 157 | 28.24 | 13.91 | | |
| 9 | 15900.00 | 54.86 PK | 74.00 | -19.14 | 1.00 H | 147 | 35.44 | 19.42 | | |
| 10 | 15900.00 | 45.21 AV | 54.00 | -8.79 | 1.00 H | 147 | 25.79 | 19.42 | | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | *5300.00 | 103.22 PK | | | 1.14 V | 180 | 97.14 | 6.08 | | |
| 2 | *5300.00 | 94.67 AV | | | 1.14 V | 180 | 88.59 | 6.08 | | |
| 3 | 5350.00 | 53.89 PK | 74.00 | -20.11 | 1.14 V | 180 | 47.72 | 6.17 | | |
| 4 | 5350.00 | 42.63 AV | 54.00 | -11.37 | 1.14 V | 180 | 36.46 | 6.17 | | |
| 5 | 5355.00 | 53.17 PK | 74.00 | -20.83 | 1.14 V | 180 | 46.99 | 6.18 | | |
| 6 | 5355.00 | 42.88 AV | 54.00 | -11.12 | 1.14 V | 180 | 36.70 | 6.18 | | |
| 7 | 10600.00 | 52.96 PK | 74.00 | -21.04 | 1.26 V | 136 | 39.05 | 13.91 | | |
| 8 | 10600.00 | 41.62 AV | 54.00 | -12.38 | 1.26 V | 136 | 27.71 | 13.91 | | |
| 9 | 15900.00 | 54.97 PK | 74.00 | -19.03 | 1.00 V | 147 | 35.55 | 19.42 | | |
| 10 | 15900.00 | 45.15 AV | 54.00 | -8.85 | 1.00 V | 147 | 25.73 | 19.42 | | |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.

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

| | ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M | | | | | | | | | |
|-----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | *5320.00 | 104.68 PK | | | 1.00 H | 156 | 98.57 | 6.11 | | |
| 2 | *5320.00 | 95.61 AV | | | 1.00 H | 156 | 89.50 | 6.11 | | |
| 3 | 5350.00 | 64.56 PK | 74.00 | -9.44 | 1.00 H | 156 | 58.39 | 6.17 | | |
| 4 | 5350.00 | 47.85 AV | 54.00 | -6.15 | 1.00 H | 156 | 41.68 | 6.17 | | |
| 5 | 5355.00 | 58.79 PK | 74.00 | -15.21 | 1.00 H | 156 | 52.61 | 6.18 | | |
| 6 | 5355.00 | 46.21 AV | 54.00 | -7.79 | 1.00 H | 156 | 40.03 | 6.18 | | |
| 7 | 10640.00 | 51.69 PK | 74.00 | -22.31 | 1.00 H | 125 | 37.74 | 13.95 | | |
| 8 | 10640.00 | 41.00 AV | 54.00 | -13.00 | 1.00 H | 125 | 27.05 | 13.95 | | |
| 9 | 15960.00 | 54.89 PK | 74.00 | -19.11 | 1.22 H | 158 | 35.38 | 19.51 | | |
| 10 | 15960.00 | 45.36 AV | 54.00 | -8.64 | 1.22 H | 158 | 25.85 | 19.51 | | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | *5320.00 | 103.40 PK | | | 1.25 V | 110 | 97.29 | 6.11 | | |
| 2 | *5320.00 | 94.56 AV | | | 1.25 V | 110 | 88.45 | 6.11 | | |
| 3 | 5350.00 | 62.52 PK | 74.00 | -11.48 | 1.25 V | 110 | 56.35 | 6.17 | | |
| 4 | 5350.00 | 47.36 AV | 54.00 | -6.64 | 1.25 V | 110 | 41.19 | 6.17 | | |
| 5 | 5355.00 | 59.11 PK | 74.00 | -14.89 | 1.25 V | 110 | 52.93 | 6.18 | | |
| 6 | 5355.00 | 45.69 AV | 54.00 | -8.31 | 1.25 V | 110 | 39.51 | 6.18 | | |
| 7 | 10640.00 | 52.05 PK | 74.00 | -21.95 | 1.00 V | 158 | 38.10 | 13.95 | | |
| 8 | 10640.00 | 42.31 AV | 54.00 | -11.69 | 1.00 V | 158 | 28.36 | 13.95 | | |
| | | | | | | | | | | |
| 9 | 15960.00 | 54.67 PK | 74.00 | -19.33 | 1.52 V | 120 | 35.16 | 19.51 | | |

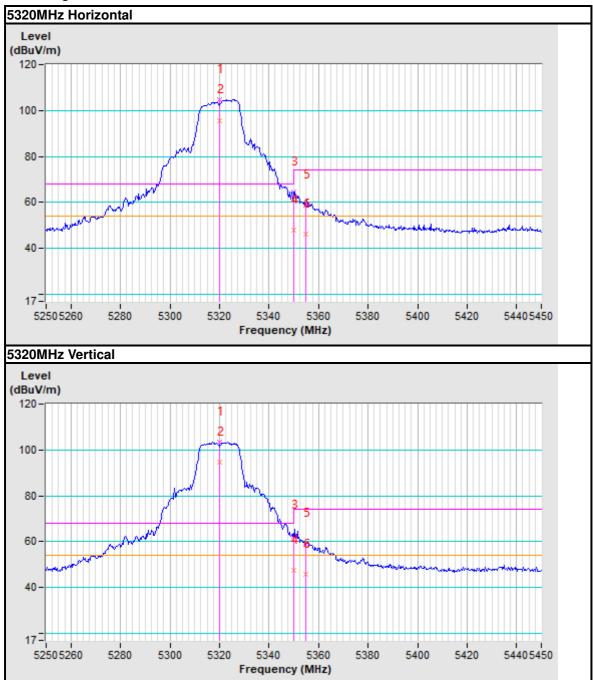
REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.

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Band edge Plot



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802.11n (20MHz)

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

| | ı | ANTENNA F | POLARITY 8 | R TEST DIS | TANCE : HO | RIZONTAL | AT 3 M | |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 53.44 PK | 74.00 | -20.56 | 1.00 H | 78 | 47.65 | 5.79 |
| 2 | 5145.00 | 42.00 AV | 54.00 | -12.00 | 1.00 H | 78 | 36.21 | 5.79 |
| 3 | 5150.00 | 53.12 PK | 74.00 | -20.88 | 1.00 H | 78 | 47.32 | 5.80 |
| 4 | 5150.00 | 42.36 AV | 54.00 | -11.64 | 1.00 H | 78 | 36.56 | 5.80 |
| 5 | *5260.00 | 104.85 PK | | | 1.00 H | 78 | 98.85 | 6.00 |
| 6 | *5260.00 | 94.68 AV | | | 1.00 H | 78 | 88.68 | 6.00 |
| 7 | 5350.00 | 54.88 PK | 74.00 | -19.12 | 1.00 H | 78 | 48.71 | 6.17 |
| 8 | 5350.00 | 43.65 AV | 54.00 | -10.35 | 1.00 H | 78 | 37.48 | 6.17 |
| 9 | 5355.00 | 53.64 PK | 74.00 | -20.36 | 1.00 H | 78 | 47.46 | 6.18 |
| 10 | 5355.00 | 42.69 AV | 54.00 | -11.31 | 1.00 H | 78 | 36.51 | 6.18 |
| 11 | #10520.00 | 53.16 PK | 68.20 | -15.04 | 1.00 H | 163 | 39.34 | 13.82 |
| 12 | 15780.00 | 54.36 PK | 74.00 | -19.64 | 1.00 H | 154 | 35.13 | 19.23 |
| 13 | 15780.00 | 43.25 AV | 54.00 | -10.75 | 1.00 H | 154 | 24.02 | 19.23 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | 5145.00 | 53.11 PK | 74.00 | -20.89 | 1.00 V | 55 | 47.32 | 5.79 |
| 2 | 5145.00 | 42.20 AV | 54.00 | -11.80 | 1.00 V | 55 | 36.41 | 5.79 |
| 3 | 5150.00 | 54.36 PK | 74.00 | -19.64 | 1.00 V | 55 | 48.56 | 5.80 |
| 4 | 5150.00 | 43.15 AV | 54.00 | -10.85 | 1.00 V | 55 | 37.35 | 5.80 |
| 5 | *5260.00 | 103.95 PK | | | 1.00 V | 55 | 97.95 | 6.00 |
| 6 | *5260.00 | 94.10 AV | | | 1.00 V | 55 | 88.10 | 6.00 |
| 7 | 5350.00 | 54.42 PK | 74.00 | -19.58 | 1.00 V | 55 | 48.25 | 6.17 |
| 8 | 5350.00 | 42.36 AV | 54.00 | -11.64 | 1.00 V | 55 | 36.19 | 6.17 |
| 9 | 5355.00 | 53.67 PK | 74.00 | -20.33 | 1.00 V | 55 | 47.49 | 6.18 |
| 10 | 5355.00 | 42.22 AV | 54.00 | -11.78 | 1.00 V | 55 | 36.04 | 6.18 |
| 11 | #10520.00 | 54.11 PK | 68.20 | -14.09 | 1.44 V | 129 | 40.29 | 13.82 |
| 12 | 15780.00 | 54.33 PK | 74.00 | -19.67 | 1.33 V | 128 | 35.10 | 19.23 |
| 13 | 15780.00 | 45.64 AV | 54.00 | -8.36 | 1.33 V | 128 | 26.41 | 19.23 |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 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 60 | DETECTOR | Peak (PK) |
|-----------------|---------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | 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 | *5300.00 | 104.25 PK | | | 1.00 H | 178 | 98.17 | 6.08 | | | |
| 2 | *5300.00 | 95.62 AV | | | 1.00 H | 178 | 89.54 | 6.08 | | | |
| 3 | 5350.00 | 54.25 PK | 74.00 | -19.75 | 1.00 H | 178 | 48.08 | 6.17 | | | |
| 4 | 5350.00 | 42.00 AV | 54.00 | -12.00 | 1.00 H | 178 | 35.83 | 6.17 | | | |
| 5 | 5355.00 | 53.00 PK | 74.00 | -21.00 | 1.00 H | 178 | 46.82 | 6.18 | | | |
| 6 | 5355.00 | 41.98 AV | 54.00 | -12.02 | 1.00 H | 178 | 35.80 | 6.18 | | | |
| 7 | 10600.00 | 53.11 PK | 74.00 | -20.89 | 1.33 H | 126 | 39.20 | 13.91 | | | |
| 8 | 10600.00 | 42.36 AV | 54.00 | -11.64 | 1.33 H | 126 | 28.45 | 13.91 | | | |
| 9 | 15900.00 | 54.88 PK | 74.00 | -19.12 | 1.00 H | 136 | 35.46 | 19.42 | | | |
| 10 | 15900.00 | 42.35 AV | 54.00 | -11.65 | 1.00 H | 136 | 22.93 | 19.42 | | | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | | | |
| NO. | FREQ. | EMISSION | LIMIT | MARGIN | ANTENNA | TABLE | RAW | CORRECTION | | | |
| | (MHz) | LEVEL (dBuV/m) | (dBuV/m) | (dB) | HEIGHT (m) | ANGLE (Degree) | VALUE (dBuV) | FACTOR (dB/m) | | | |
| 1 | (MHz) *5300.00 | | (dBuV/m) | (dB) | | | | | | | |
| 1 2 | , , | (dBuV/m) | (dBuV/m) | (dB) | (m) | (Degree) | (dBuV) | (dB/m) | | | |
| \vdash | *5300.00 | (dBuV/m) 104.56 PK | (dBuV/m) 74.00 | (dB) | (m) 1.00 V | (Degree) | (dBuV) 98.48 | (dB/m) 6.08 | | | |
| 2 | *5300.00 *5300.00 | (dBuV/m) 104.56 PK 95.00 AV | | | (m) 1.00 V 1.00 V | (Degree) 64 64 | (dBuV) 98.48 88.92 | (dB/m) 6.08 6.08 | | | |
| 3 | *5300.00 *5300.00 5350.00 | (dBuV/m) 104.56 PK 95.00 AV 54.25 PK | 74.00 | -19.75 | (m) 1.00 V 1.00 V 1.00 V | (Degree) 64 64 64 | (dBuV) 98.48 88.92 48.08 | (dB/m) 6.08 6.08 6.17 | | | |
| 3 4 | *5300.00 *5300.00 5350.00 | (dBuV/m) 104.56 PK 95.00 AV 54.25 PK 43.11 AV | 74.00 54.00 | -19.75 -10.89 | (m) 1.00 V 1.00 V 1.00 V 1.00 V | (Degree) 64 64 64 64 | (dBuV) 98.48 88.92 48.08 36.94 | (dB/m) 6.08 6.08 6.17 6.17 | | | |
| 2 3 4 5 | *5300.00 *5300.00 5350.00 5350.00 5355.00 | (dBuV/m) 104.56 PK 95.00 AV 54.25 PK 43.11 AV 52.69 PK | 74.00 54.00 74.00 | -19.75 -10.89 -21.31 | (m) 1.00 V 1.00 V 1.00 V 1.00 V | (Degree) 64 64 64 64 64 | (dBuV) 98.48 88.92 48.08 36.94 46.51 | (dB/m) 6.08 6.08 6.17 6.17 6.18 | | | |
| 2 3 4 5 6 | *5300.00 *5300.00 5350.00 5350.00 5355.00 | (dBuV/m) 104.56 PK 95.00 AV 54.25 PK 43.11 AV 52.69 PK 41.96 AV | 74.00 54.00 74.00 54.00 | -19.75 -10.89 -21.31 -12.04 | (m) 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V | (Degree) 64 64 64 64 64 64 | (dBuV) 98.48 88.92 48.08 36.94 46.51 35.78 | (dB/m) 6.08 6.08 6.17 6.17 6.18 6.18 | | | |
| 2 3 4 5 6 7 | *5300.00 *5300.00 5350.00 5350.00 5355.00 5355.00 10600.00 | (dBuV/m) 104.56 PK 95.00 AV 54.25 PK 43.11 AV 52.69 PK 41.96 AV 53.64 PK | 74.00 54.00 74.00 54.00 74.00 | -19.75 -10.89 -21.31 -12.04 -20.36 | (m) 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V 1.44 V | (Degree) 64 64 64 64 64 64 64 64 158 | (dBuV) 98.48 88.92 48.08 36.94 46.51 35.78 39.73 | (dB/m) 6.08 6.08 6.17 6.17 6.18 6.18 13.91 | | | |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.

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

| | ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M | | | | | | | | | |
|-----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|--|
| | | ANIENNAI | POLARITY | LEST DIS | I ANCE : HC | RIZONTAL | AI 3 M | 1 | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | *5320.00 | 104.89 PK | | | 1.00 H | 80 | 98.78 | 6.11 | | |
| 2 | *5320.00 | 95.65 AV | | | 1.00 H | 80 | 89.54 | 6.11 | | |
| 3 | 5350.00 | 65.41 PK | 74.00 | -8.59 | 1.00 H | 80 | 59.24 | 6.17 | | |
| 4 | 5350.00 | 48.52 AV | 54.00 | -5.48 | 1.00 H | 80 | 42.35 | 6.17 | | |
| 5 | 5355.00 | 61.15 PK | 74.00 | -12.85 | 1.00 H | 80 | 54.97 | 6.18 | | |
| 6 | 5355.00 | 46.22 AV | 54.00 | -7.78 | 1.00 H | 80 | 40.04 | 6.18 | | |
| 7 | 10640.00 | 52.96 PK | 74.00 | -21.04 | 1.00 H | 183 | 39.01 | 13.95 | | |
| 8 | 10640.00 | 42.34 AV | 54.00 | -11.66 | 1.00 H | 183 | 28.39 | 13.95 | | |
| 9 | 15960.00 | 54.55 PK | 74.00 | -19.45 | 1.00 H | 152 | 35.04 | 19.51 | | |
| 10 | 15960.00 | 43.98 AV | 54.00 | -10.02 | 1.00 H | 152 | 24.47 | 19.51 | | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | *5320.00 | 103.90 PK | | | 1.00 V | 42 | 97.79 | 6.11 | | |
| 2 | *5320.00 | 94.51 AV | | | 1.00 V | 42 | 88.40 | 6.11 | | |
| 3 | 5350.00 | 65.07 PK | 74.00 | -8.93 | 1.00 V | 42 | 58.90 | 6.17 | | |
| 4 | 5350.00 | 47.54 AV | 54.00 | -6.46 | 1.00 V | 42 | 41.37 | 6.17 | | |
| 5 | 5355.00 | 61.41 PK | 74.00 | -12.59 | 1.00 V | 42 | 55.23 | 6.18 | | |
| 6 | 5355.00 | 45.20 AV | 54.00 | -8.80 | 1.00 V | 42 | 39.02 | 6.18 | | |
| 7 | 10640.00 | 53.11 PK | 74.00 | -20.89 | 1.00 V | 145 | 39.16 | 13.95 | | |
| 8 | 10640.00 | 41.65 AV | 54.00 | -12.35 | 1.00 V | 145 | 27.70 | 13.95 | | |
| 9 | 15960.00 | 54.33 PK | 74.00 | -19.67 | 1.25 V | 148 | 34.82 | 19.51 | | |
| 10 | 15960.00 | 44.12 AV | 54.00 | -9.88 | 1.25 V | 148 | 24.61 | 19.51 | | |

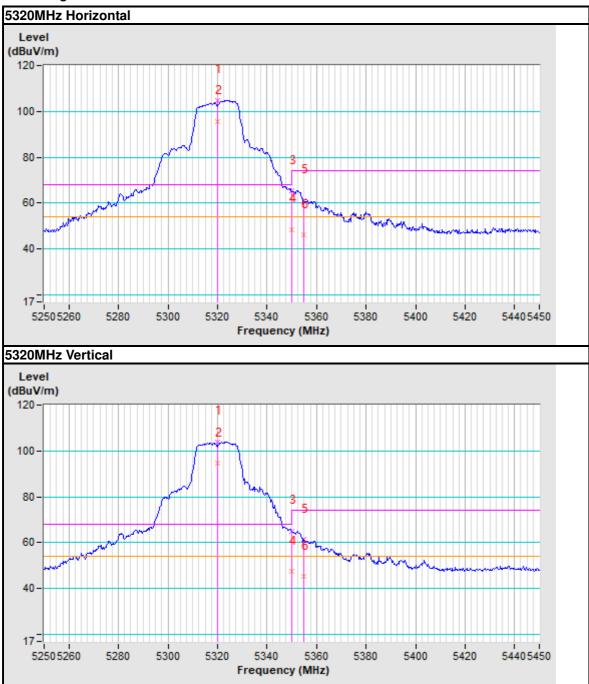
REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.

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Band edge Plot



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802.11n (40MHz)

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

| | | ANTENNA I | POLARITY 8 | & TEST DIS | TANCE : HO | RIZONTAL | AT 3 M | |
|--------|--------------------|-------------------------------|-------------------|------------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5270.00 | 103.15 PK | | | 1.00 H | 120 | 97.13 | 6.02 |
| 2 | *5270.00 | 92.54 AV | | | 1.00 H | 120 | 86.52 | 6.02 |
| 3 | 5350.00 | 54.65 PK | 74.00 | -19.35 | 1.00 H | 120 | 48.48 | 6.17 |
| 4 | 5350.00 | 42.65 AV | 54.00 | -11.35 | 1.00 H | 120 | 36.48 | 6.17 |
| 5 | 5355.00 | 54.15 PK | 74.00 | -19.85 | 1.00 H | 120 | 47.97 | 6.18 |
| 6 | 5355.00 | 41.69 AV | 54.00 | -12.31 | 1.00 H | 120 | 35.51 | 6.18 |
| 7 | #10540.00 | 54.12 PK | 68.20 | -14.08 | 1.56 H | 125 | 40.28 | 13.84 |
| 8 | 15810.00 | 54.65 PK | 74.00 | -19.35 | 1.54 H | 144 | 35.37 | 19.28 |
| 9 | 15810.00 | 45.12 AV | 54.00 | -8.88 | 1.54 H | 144 | 25.84 | 19.28 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5270.00 | 100.02 PK | | | 1.00 V | 244 | 94.00 | 6.02 |
| 2 | *5270.00 | 90.36 AV | | | 1.00 V | 244 | 84.34 | 6.02 |
| 3 | 5350.00 | 53.46 PK | 74.00 | -20.54 | 1.00 V | 244 | 47.29 | 6.17 |
| 4 | 5350.00 | 41.43 AV | 54.00 | -12.57 | 1.00 V | 244 | 35.26 | 6.17 |
| | | | 000 | , | | | | |
| 5 | 5355.00 | 54.10 PK | 74.00 | -19.90 | 1.00 V | 244 | 47.92 | 6.18 |
| 5 6 | 5355.00 5355.00 | | | | | 244 244 | 47.92 35.71 | 6.18 6.18 |
| | | 54.10 PK | 74.00 | -19.90 | 1.00 V | | _ | |
| 6 | 5355.00 | 54.10 PK 41.89 AV | 74.00 54.00 | -19.90 -12.11 | 1.00 V 1.00 V | 244 | 35.71 | 6.18 |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 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 62 | DETECTOR | Peak (PK) |
|-----------------|---------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | 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 | *5310.00 | 99.30 PK | | | 1.14 H | 130 | 93.21 | 6.09 | | |
| 2 | *5310.00 | 89.25 AV | | | 1.14 H | 130 | 83.16 | 6.09 | | |
| 3 | 5350.00 | 70.85 PK | 74.00 | -3.15 | 1.14 H | 130 | 64.68 | 6.17 | | |
| 4 | 5350.00 | 50.00 AV | 54.00 | -4.00 | 1.14 H | 130 | 43.83 | 6.17 | | |
| 5 | 5355.00 | 63.90 PK | 74.00 | -10.10 | 1.14 H | 130 | 57.72 | 6.18 | | |
| 6 | 5355.00 | 46.26 AV | 54.00 | -7.74 | 1.14 H | 130 | 40.08 | 6.18 | | |
| 7 | 10620.00 | 53.11 PK | 74.00 | -20.89 | 1.17 H | 154 | 39.18 | 13.93 | | |
| 8 | 10620.00 | 42.15 AV | 54.00 | -11.85 | 1.17 H | 154 | 28.22 | 13.93 | | |
| 9 | 15930.00 | 54.89 PK | 74.00 | -19.11 | 1.00 H | 148 | 35.43 | 19.46 | | |
| 10 | 15930.00 | 45.34 AV | 54.00 | -8.66 | 1.00 H | 148 | 25.88 | 19.46 | | |
| | ANTENNA POLARITY & TEST DISTANCE : VERTICAL AT 3 M | | | | | | | | | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | | |
| NO. | FREQ. (MHz) | ANTENNA EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | STANCE : V ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| NO . | | EMISSION LEVEL | LIMIT | MARGIN | ANTENNA HEIGHT | TABLE ANGLE | RAW VALUE | FACTOR | | |
| | (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT | MARGIN | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | FACTOR (dB/m) | | |
| 1 | (MHz) *5310.00 | EMISSION LEVEL (dBuV/m) 97.42 PK | LIMIT | MARGIN | ANTENNA HEIGHT (m) 1.00 V | TABLE ANGLE (Degree) | RAW VALUE (dBuV) 91.33 | FACTOR (dB/m) 6.09 | | |
| 1 2 | *5310.00 *5310.00 | EMISSION LEVEL (dBuV/m) 97.42 PK 87.56 AV | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) 1.00 V 1.00 V | TABLE ANGLE (Degree) 34 34 | RAW VALUE (dBuV) 91.33 81.47 | FACTOR (dB/m) 6.09 6.09 | | |
| 1 2 3 | *5310.00 *5310.00 5350.00 | EMISSION LEVEL (dBuV/m) 97.42 PK 87.56 AV 67.04 PK | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V | TABLE ANGLE (Degree) 34 34 34 | RAW VALUE (dBuV) 91.33 81.47 60.87 | FACTOR (dB/m) 6.09 6.09 6.17 | | |
| 1 2 3 4 | *5310.00 *5310.00 5350.00 5350.00 | EMISSION LEVEL (dBuV/m) 97.42 PK 87.56 AV 67.04 PK 45.62 AV | LIMIT (dBuV/m) 74.00 54.00 | MARGIN (dB) -6.96 -8.38 | ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V | TABLE ANGLE (Degree) 34 34 34 34 | RAW VALUE (dBuV) 91.33 81.47 60.87 39.45 | FACTOR (dB/m) 6.09 6.09 6.17 6.17 | | |
| 1 2 3 4 5 | *5310.00 *5310.00 5350.00 5350.00 5355.00 | EMISSION LEVEL (dBuV/m) 97.42 PK 87.56 AV 67.04 PK 45.62 AV 61.00 PK | LIMIT (dBuV/m) 74.00 54.00 74.00 | MARGIN (dB) -6.96 -8.38 -13.00 | ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V 1.00 V | TABLE ANGLE (Degree) 34 34 34 34 34 | RAW VALUE (dBuV) 91.33 81.47 60.87 39.45 54.82 | FACTOR (dB/m) 6.09 6.09 6.17 6.17 6.18 | | |
| 1 2 3 4 5 6 | *5310.00 *5310.00 5350.00 5350.00 5355.00 5355.00 | EMISSION LEVEL (dBuV/m) 97.42 PK 87.56 AV 67.04 PK 45.62 AV 61.00 PK 44.58 AV | T4.00 54.00 74.00 54.00 54.00 | -6.96 -8.38 -13.00 -9.42 | ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V | TABLE ANGLE (Degree) 34 34 34 34 34 34 | RAW VALUE (dBuV) 91.33 81.47 60.87 39.45 54.82 38.40 | FACTOR (dB/m) 6.09 6.09 6.17 6.17 6.18 6.18 | | |
| 1 2 3 4 5 6 7 | *5310.00 *5310.00 5350.00 5350.00 5355.00 5355.00 10620.00 | EMISSION LEVEL (dBuV/m) 97.42 PK 87.56 AV 67.04 PK 45.62 AV 61.00 PK 44.58 AV 53.15 PK | 74.00 54.00 74.00 54.00 74.00 | -6.96 -8.38 -13.00 -9.42 -20.85 | ANTENNA HEIGHT (m) 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V 1.00 V | TABLE ANGLE (Degree) 34 34 34 34 34 34 34 | RAW VALUE (dBuV) 91.33 81.47 60.87 39.45 54.82 38.40 39.22 | FACTOR (dB/m) 6.09 6.09 6.17 6.17 6.18 6.18 13.93 | | |

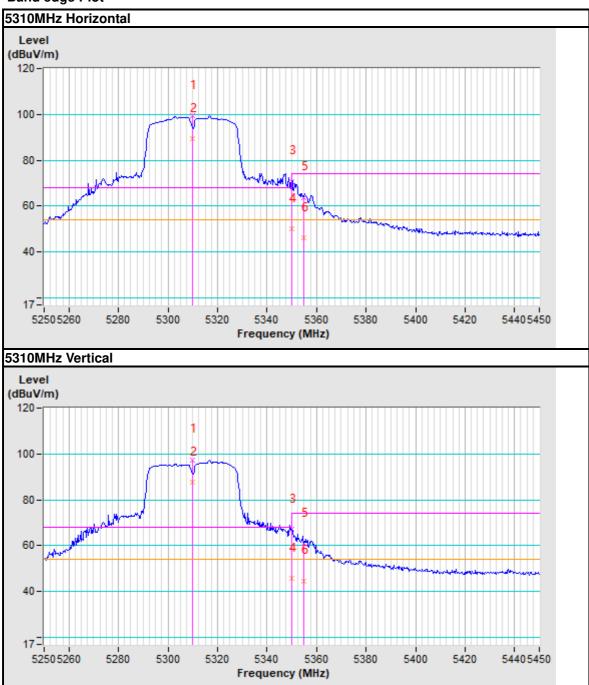
REMARKS:

- 1. Emission level $(dBuV/m) = Raw \ Value \ (dBuV) + Correction \ Factor \ (dB/m)$.
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.

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Band 3 (5470-5725MHz): ABOVE 1GHz DATA 802.11a

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

| | ANTENNA DOLADITY & TECT DISTANCE - HODIZONTAL AT 2 M | | | | | | | | | |
|-----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|--|
| | 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 | #5465.00 | 64.04 PK | 68.20 | -4.16 | 1.00 H | 43 | 57.66 | 6.38 | | |
| 2 | #5470.00 | 64.56 PK | 68.20 | -3.64 | 1.00 H | 43 | 58.18 | 6.38 | | |
| 3 | *5500.00 | 104.24 PK | | | 1.00 H | 43 | 97.80 | 6.44 | | |
| 4 | *5500.00 | 94.51 AV | | | 1.00 H | 43 | 88.07 | 6.44 | | |
| 5 | 11000.00 | 52.34 PK | 74.00 | -21.66 | 1.57 H | 154 | 37.98 | 14.36 | | |
| 6 | 11000.00 | 41.57 AV | 54.00 | -12.43 | 1.57 H | 154 | 27.21 | 14.36 | | |
| 7 | #16500.00 | 54.26 PK | 68.20 | -13.94 | 1.00 H | 157 | 34.15 | 20.11 | | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE: V | ERTICAL A | T 3 M | - | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | #5465.00 | 63.64 PK | 68.20 | -4.56 | 1.00 V | 300 | 57.26 | 6.38 | | |
| 2 | #5470.00 | 64.95 PK | 68.20 | -3.25 | 1.00 V | 300 | 58.57 | 6.38 | | |
| 3 | *5500.00 | 102.90 PK | | | 1.00 V | 300 | 96.46 | 6.44 | | |
| 4 | *5500.00 | 92.58 AV | | | 1.00 V | 300 | 86.14 | 6.44 | | |
| 5 | 11000.00 | 52.57 PK | 74.00 | -21.43 | 1.00 V | 189 | 38.21 | 14.36 | | |
| 6 | 11000.00 | 41.38 AV | 54.00 | -12.62 | 1.00 V | 189 | 27.02 | 14.36 | | |
| 7 | #16500.00 | 54.85 PK | 68.20 | -13.35 | 1.20 V | 145 | 34.74 | 20.11 | | |

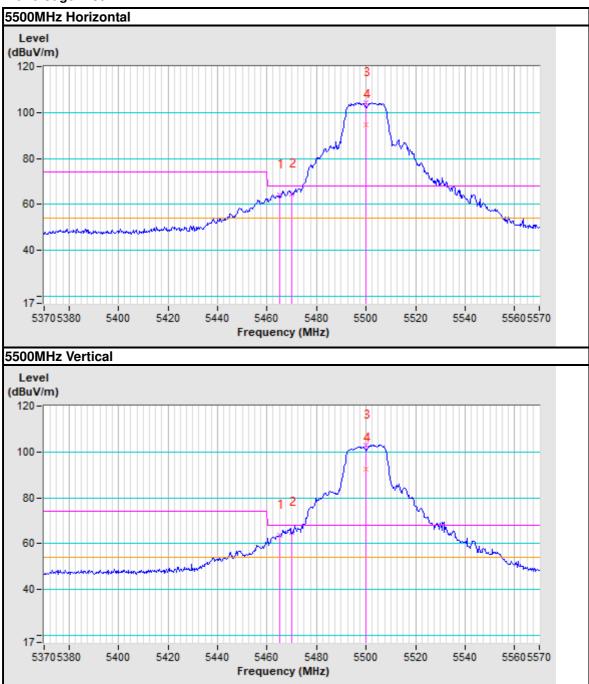
REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 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 116 | DETECTOR | Peak (PK) |
|-----------------|----------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | Average (AV) |

| | | ANTENNA I | POLARITY 8 | k TEST DIS | TANCE : HO | RIZONTAL | AT 3 M | |
|-----|----------------------|-------------------------------|-------------------|------------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5470.00 | 47.51 PK | 68.20 | -20.69 | 1.00 H | 20 | 41.13 | 6.38 |
| 2 | *5580.00 | 105.21 PK | | | 1.00 H | 20 | 98.53 | 6.68 |
| 3 | *5580.00 | 95.37 AV | | | 1.00 H | 20 | 88.69 | 6.68 |
| 4 | 11160.00 | 52.52 PK | 74.00 | -21.48 | 1.44 H | 147 | 37.84 | 14.68 |
| 5 | 11160.00 | 41.58 AV | 54.00 | -12.42 | 1.44 H | 147 | 26.90 | 14.68 |
| 6 | #16740.00 | 53.15 PK | 68.20 | -15.05 | 1.55 H | 125 | 32.59 | 20.56 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5470.00 | 46.59 PK | 68.20 | -21.61 | 1.00 V | 125 | 40.21 | 6.38 |
| 2 | *5580.00 | 103.98 PK | | | 1.00 V | 125 | 97.30 | 6.68 |
| | | | | | | | | |
| 3 | *5580.00 | 94.20 AV | | | 1.00 V | 125 | 87.52 | 6.68 |
| 3 | *5580.00 11160.00 | 94.20 AV 53.26 PK | 74.00 | -20.74 | 1.00 V 1.23 V | 125 147 | 87.52 38.58 | 6.68 14.68 |
| | | • | 74.00 54.00 | -20.74 -11.85 | | | 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).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 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 140 | DETECTOR | Peak (PK) |
|-----------------|----------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | Average (AV) |

| | ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M | | | | | | | | | |
|-----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | *5700.00 | 100.33 PK | | | 1.00 H | 125 | 93.30 | 7.03 | | |
| 2 | *5700.00 | 90.21 AV | | | 1.00 H | 125 | 83.18 | 7.03 | | |
| 3 | #5725.00 | 64.73 PK | 68.20 | -3.47 | 1.00 H | 125 | 57.63 | 7.10 | | |
| 4 | #5730.00 | 60.10 PK | 68.20 | -8.10 | 1.00 H | 125 | 52.99 | 7.11 | | |
| 5 | 11400.00 | 52.34 PK | 74.00 | -21.66 | 1.00 H | 28 | 37.19 | 15.15 | | |
| 6 | 11400.00 | 42.16 AV | 54.00 | -11.84 | 1.00 H | 28 | 27.01 | 15.15 | | |
| 7 | #17100.00 | 54.89 PK | 68.20 | -13.31 | 1.25 H | 165 | 33.84 | 21.05 | | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | *5700.00 | 98.59 PK | | | 1.00 V | 310 | 91.56 | 7.03 | | |
| 2 | *5700.00 | 89.41 AV | | | 1.00 V | 310 | 82.38 | 7.03 | | |
| 3 | #5725.00 | 62.58 PK | 68.20 | -5.62 | 1.00 V | 310 | 55.48 | 7.10 | | |
| 4 | #5730.00 | 58.95 PK | 68.20 | -9.25 | 1.00 V | 310 | 51.84 | 7.11 | | |
| 5 | 11400.00 | 52.33 PK | 74.00 | -21.67 | 1.00 V | 130 | 37.18 | 15.15 | | |
| 6 | 11400.00 | 42.74 AV | 54.00 | -11.26 | 1.00 V | 130 | 27.59 | 15.15 | | |
| 7 | #17100.00 | 54.96 PK | 68.20 | -13.24 | 1.41 V | 126 | 33.91 | 21.05 | | |

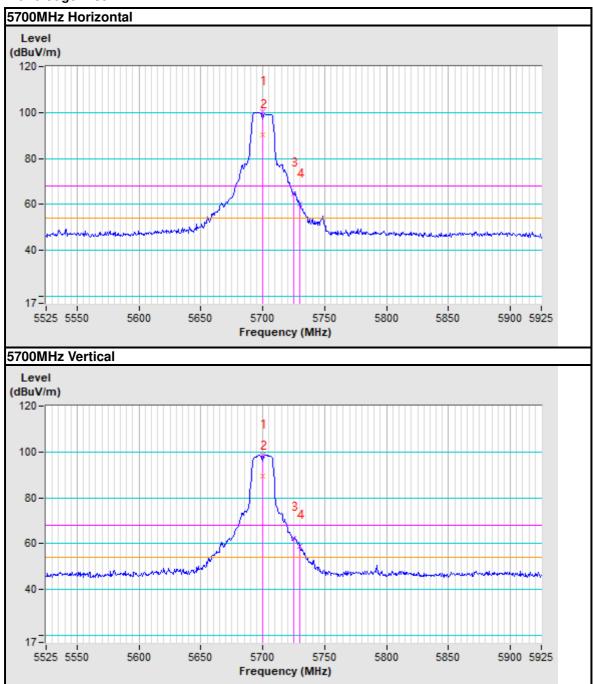
REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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802.11n (20MHz)

| CHANNEL | TX Channel 100 | DETECTOR | Peak (PK) |
|-----------------|----------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | 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 | #5465.00 | 63.60 PK | 68.20 | -4.60 | 1.00 H | 125 | 57.22 | 6.38 | |
| 2 | #5470.00 | 63.81 PK | 68.20 | -4.39 | 1.00 H | 125 | 57.43 | 6.38 | |
| 3 | *5500.00 | 101.84 PK | | | 1.00 H | 125 | 95.40 | 6.44 | |
| 4 | *5500.00 | 91.52 AV | | | 1.00 H | 125 | 85.08 | 6.44 | |
| 5 | 11000.00 | 53.17 PK | 74.00 | -20.83 | 1.33 H | 145 | 38.81 | 14.36 | |
| 6 | 11000.00 | 42.00 AV | 54.00 | -12.00 | 1.33 H | 145 | 27.64 | 14.36 | |
| 7 | #16500.00 | 54.89 PK | 68.20 | -13.31 | 1.00 H | 126 | 34.78 | 20.11 | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| | | (42417111) | | | (m) | (Degree) | (ubuv) | (db/III) | |
| 1 | #5465.00 | 63.57 PK | 68.20 | -4.63 | 1.00 V | 300 | 57.19 | 6.38 | |
| 2 | #5465.00 #5470.00 | (/ | 68.20 68.20 | -4.63 -3.62 | ` ' | , , | , , | ` ' | |
| | | 63.57 PK | | | 1.00 V | 300 | 57.19 | 6.38 | |
| 2 | #5470.00 | 63.57 PK 64.58 PK | | | 1.00 V 1.00 V | 300 300 | 57.19 58.20 | 6.38 6.38 | |
| 3 | #5470.00 *5500.00 | 63.57 PK 64.58 PK 101.11 PK | | | 1.00 V 1.00 V 1.00 V | 300 300 300 | 57.19 58.20 94.67 | 6.38 6.38 6.44 | |
| 3 4 | #5470.00 *5500.00 *5500.00 | 63.57 PK 64.58 PK 101.11 PK 91.52 AV | 68.20 | -3.62 | 1.00 V 1.00 V 1.00 V 1.00 V | 300 300 300 300 | 57.19 58.20 94.67 85.08 | 6.38 6.38 6.44 6.44 | |

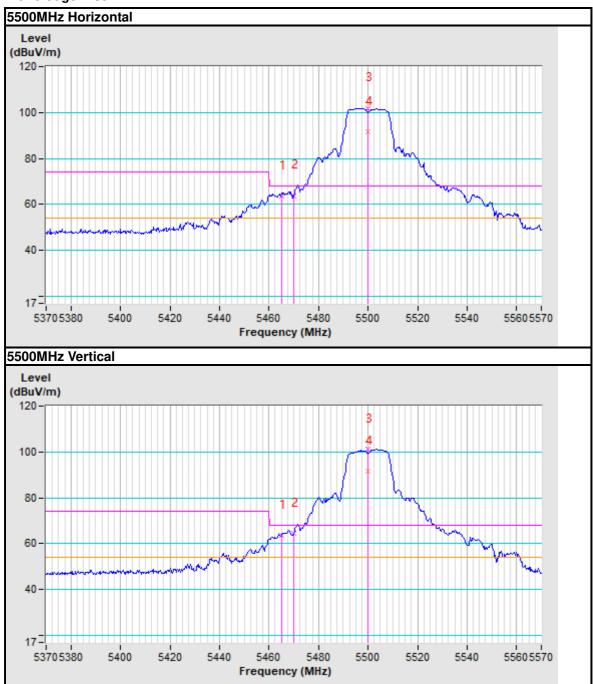
REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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Report Version A



| CHANNEL | TX Channel 116 | DETECTOR | Peak (PK) |
|-----------------|----------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | 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 | #5470.00 | 50.37 PK | 68.20 | -17.83 | 1.00 H | 25 | 43.99 | 6.38 | | |
| 2 | *5580.00 | 105.34 PK | | | 1.00 H | 25 | 98.66 | 6.68 | | |
| 3 | *5580.00 | 94.96 AV | | | 1.00 H | 25 | 88.28 | 6.68 | | |
| 4 | 11160.00 | 52.86 PK | 74.00 | -21.14 | 1.75 H | 135 | 38.18 | 14.68 | | |
| 5 | 11160.00 | 42.93 AV | 54.00 | -11.07 | 1.75 H | 135 | 28.25 | 14.68 | | |
| 6 | #16740.00 | 55.00 PK | 68.20 | -13.20 | 1.00 H | 110 | 34.44 | 20.56 | | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | #5470.00 | 52.33 PK | 68.20 | -15.87 | 1.00 V | 300 | 45.95 | 6.38 | | |
| 2 | *5580.00 | 104.00 PK | | | 1.00 V | 300 | 97.32 | 6.68 | | |
| 3 | *5580.00 | 94.35 AV | | | 1.00 V | 300 | 87.67 | 6.68 | | |
| 4 | 11160.00 | 52.39 PK | 74.00 | -21.61 | 1.50 V | 126 | 37.71 | 14.68 | | |
| 5 | 11160.00 | 42.38 AV | 54.00 | -11.62 | 1.50 V | 126 | 27.70 | 14.68 | | |
| 6 | #16740.00 | 54.91 PK | 68.20 | -13.29 | 1.00 V | 125 | 34.35 | 20.56 | | |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 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 140 | DETECTOR | Peak (PK) |
|-----------------|----------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | Average (AV) |

| | | ANTENNA F | POLARITY 8 | LEST DIS | FANCE : HO | RIZONTAL | AT 3 M | |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5700.00 | 99.90 PK | | | 1.00 H | 344 | 92.87 | 7.03 |
| 2 | *5700.00 | 89.45 AV | | | 1.00 H | 344 | 82.42 | 7.03 |
| 3 | #5725.00 | 63.81 PK | 68.20 | -4.39 | 1.00 H | 344 | 56.71 | 7.10 |
| 4 | #5730.00 | 60.67 PK | 68.20 | -7.53 | 1.00 H | 344 | 53.56 | 7.11 |
| 5 | 11400.00 | 52.61 PK | 74.00 | -21.39 | 1.00 H | 154 | 37.46 | 15.15 |
| 6 | 11400.00 | 41.95 AV | 54.00 | -12.05 | 1.00 H | 154 | 26.80 | 15.15 |
| 7 | #17100.00 | 56.93 PK | 68.20 | -11.27 | 1.20 H | 156 | 35.88 | 21.05 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | *5700.00 | 98.20 PK | | | 1.00 V | 321 | 91.17 | 7.03 |
| 2 | *5700.00 | 89.52 AV | | | 1.00 V | 321 | 82.49 | 7.03 |
| 3 | #5725.00 | 61.59 PK | 68.20 | -6.61 | 1.00 V | 321 | 54.49 | 7.10 |
| 4 | #5730.00 | 60.14 PK | 68.20 | -8.06 | 1.00 V | 321 | 53.03 | 7.11 |
| 5 | 11400.00 | 52.73 PK | 74.00 | -21.27 | 1.00 V | 122 | 37.58 | 15.15 |
| 6 | 11400.00 | 41.85 AV | 54.00 | -12.15 | 1.00 V | 122 | 26.70 | 15.15 |
| 7 | #17100.00 | 55.32 PK | 68.20 | -12.88 | 1.20 V | 120 | 34.27 | 21.05 |

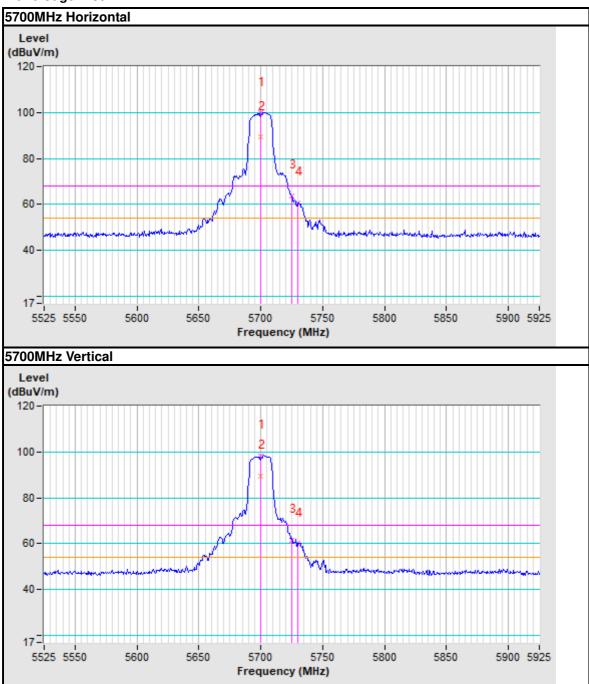
REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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802.11n (40MHz)

| CHANNEL | TX Channel 102 | DETECTOR | Peak (PK) |
|-----------------|----------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | 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 | #5465.00 | 61.88 PK | 68.20 | -6.32 | 1.00 H | 31 | 55.50 | 6.38 | | |
| 2 | #5470.00 | 62.93 PK | 68.20 | -5.27 | 1.00 H | 31 | 56.55 | 6.38 | | |
| 3 | *5510.00 | 98.53 PK | | | 1.00 H | 31 | 92.06 | 6.47 | | |
| 4 | *5510.00 | 89.60 AV | | | 1.00 H | 31 | 83.13 | 6.47 | | |
| 5 | 11020.00 | 53.43 PK | 74.00 | -20.57 | 1.75 H | 155 | 39.04 | 14.39 | | |
| 6 | 11020.00 | 42.96 AV | 54.00 | -11.04 | 1.75 H | 155 | 28.57 | 14.39 | | |
| 7 | #16530.00 | 54.77 PK | 68.20 | -13.43 | 1.68 H | 250 | 34.61 | 20.16 | | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | |
| 1 | #5465.00 | 62.21 PK | 68.20 | -5.99 | 1.00 V | 319 | 55.83 | 6.38 | | |
| 2 | #5470.00 | 63.27 PK | 68.20 | -4.93 | 1.00 V | 319 | 56.89 | 6.38 | | |
| 3 | *5510.00 | 96.89 PK | | | 1.00 V | 319 | 90.42 | 6.47 | | |
| 4 | *5510.00 | 87.33 AV | | | 1.00 V | 319 | 80.86 | 6.47 | | |
| 5 | 11020.00 | 53.15 PK | 74.00 | -20.85 | 1.00 V | 136 | 38.76 | 14.39 | | |
| 6 | 11020.00 | 42.16 AV | 54.00 | -11.84 | 1.00 V | 136 | 27.77 | 14.39 | | |
| 7 | #16530.00 | 54.98 PK | 68.20 | -13.22 | 1.54 V | 41 | 34.82 | 20.16 | | |

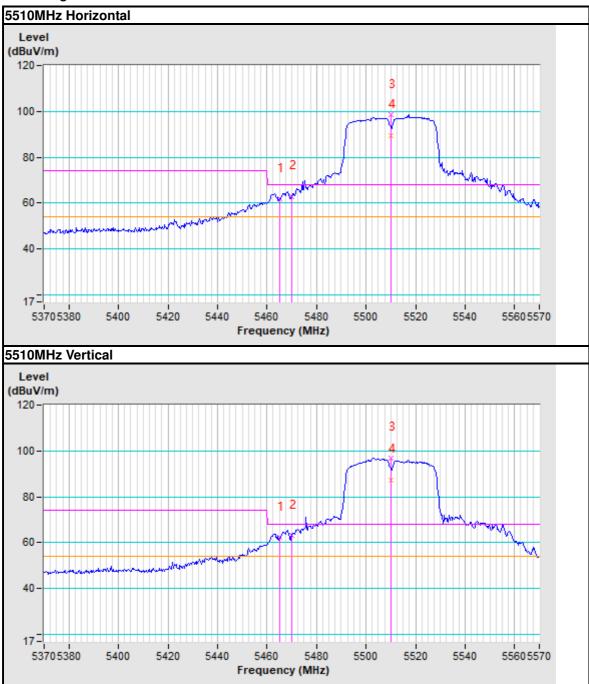
REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 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 110 | DETECTOR | Peak (PK) |
|-----------------|----------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | Average (AV) |

| | | ********** | OL ADITY | TEGT DIG | | DIZONITAL | 47.014 | |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| | 1 | ANIENNAI | POLARITY | LESI DIS | TANCE : HO | RIZONTAL | AI 3 M | 1 |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5470.00 | 62.36 PK | 68.20 | -5.84 | 1.00 H | 36 | 55.98 | 6.38 |
| 2 | *5550.00 | 104.56 PK | | | 1.00 H | 36 | 97.98 | 6.58 |
| 3 | *5550.00 | 94.88 AV | | | 1.00 H | 36 | 88.30 | 6.58 |
| 4 | 11100.00 | 52.55 PK | 74.00 | -21.45 | 1.89 H | 354 | 38.00 | 14.55 |
| 5 | 11100.00 | 42.18 AV | 54.00 | -11.82 | 1.89 H | 354 | 27.63 | 14.55 |
| 6 | #16650.00 | 54.97 PK | 68.20 | -13.23 | 1.00 H | 154 | 34.58 | 20.39 |
| | | ANTENNA | POLARITY | ' & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5470.00 | 61.33 PK | 68.20 | -6.87 | 1.00 V | 334 | 54.95 | 6.38 |
| 2 | *5550.00 | 103.58 PK | | | 1.00 V | 334 | 97.00 | 6.58 |
| 3 | *5550.00 | 93.68 AV | | | 1.00 V | 334 | 87.10 | 6.58 |
| 4 | 11100.00 | 52.16 PK | 74.00 | -21.84 | 1.73 V | 155 | 37.61 | 14.55 |
| 5 | 11100.00 | 42.52 AV | 54.00 | -11.48 | 1.73 V | 155 | 27.97 | 14.55 |
| 6 | #16650.00 | 55.00 PK | 68.20 | -13.20 | 1.00 V | 126 | 34.61 | 20.39 |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 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 134 | DETECTOR | Peak (PK) |
|-----------------|----------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | 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 | *5670.00 | 98.76 PK | | | 1.00 H | 30 | 91.83 | 6.93 | |
| 2 | *5670.00 | 88.35 AV | | | 1.00 H | 30 | 81.42 | 6.93 | |
| 3 | #5725.00 | 63.00 PK | 68.20 | -5.20 | 1.00 H | 30 | 55.90 | 7.10 | |
| 4 | #5730.00 | 60.00 PK | 68.20 | -8.20 | 1.00 H | 30 | 52.89 | 7.11 | |
| 5 | 11340.00 | 53.62 PK | 74.00 | -20.38 | 1.35 H | 125 | 38.60 | 15.02 | |
| 6 | 11340.00 | 42.00 AV | 54.00 | -12.00 | 1.35 H | 125 | 26.98 | 15.02 | |
| 7 | #17010.00 | 55.62 PK | 68.20 | -12.58 | 1.00 H | 167 | 34.59 | 21.03 | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | *5670.00 | 98.47 PK | | | 1.00 V | 335 | 91.54 | 6.93 | |
| 2 | *5670.00 | 88.95 AV | | | 1.00 V | 335 | 82.02 | 6.93 | |
| 3 | #5725.00 | 60.50 PK | 68.20 | -7.70 | 1.00 V | 335 | 53.40 | 7.10 | |
| 4 | #5730.00 | 58.11 PK | 68.20 | -10.09 | 1.00 V | 335 | 51.00 | 7.11 | |
| 5 | 11340.00 | 53.16 PK | 74.00 | -20.84 | 1.44 V | 110 | 38.14 | 15.02 | |
| 6 | 11340.00 | 41.69 AV | 54.00 | -12.31 | 1.44 V | 110 | 26.67 | 15.02 | |
| 7 | #17010.00 | 54.83 PK | 68.20 | -13.37 | 1.00 V | 136 | 33.80 | 21.03 | |

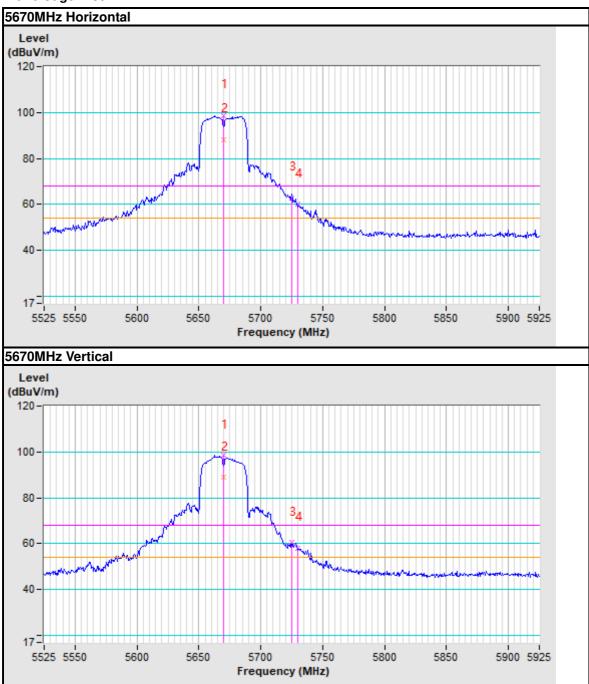
REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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Band 4 (5725-5850MHz):

ABOVE 1GHz DATA

802.11a

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

| | | ANTENNA F | POLARITY 8 | k TEST DIS | TANCE : HO | RIZONTAL | AT 3 M | |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5720.00 | 78.76 PK | 110.80 | -32.04 | 1.00 H | 125 | 71.68 | 7.08 |
| 2 | #5725.00 | 90.43 PK | 122.20 | -31.77 | 1.00 H | 125 | 83.33 | 7.10 |
| 3 | *5745.00 | 112.56 PK | | | 1.00 H | 155 | 105.40 | 7.16 |
| 4 | *5745.00 | 102.58 AV | | | 1.00 H | 155 | 95.42 | 7.16 |
| 5 | #5855.00 | 59.08 PK | 110.80 | -51.72 | 1.00 H | 125 | 51.60 | 7.48 |
| 6 | 11490.00 | 51.73 PK | 74.00 | -22.27 | 1.10 H | 189 | 36.41 | 15.32 |
| 7 | 11490.00 | 41.87 AV | 54.00 | -12.13 | 1.10 H | 189 | 26.55 | 15.32 |
| 8 | #17235.00 | 54.28 PK | 68.20 | -13.92 | 1.57 H | 113 | 33.21 | 21.07 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | Peak (PK) Average (AV) |
| 1 | #5720.00 | 70.28 PK | 110.80 | -40.52 | 1.00 V | 0 | 63.20 | 7.08 |
| 2 | #5725.00 | 81.71 PK | 122.20 | -40.49 | 1.00 V | 0 | 74.61 | 7.10 |
| 3 | *5745.00 | 104.21 PK | | | 1.00 V | 125 | 97.05 | 7.16 |
| 4 | *5745.00 | 94.33 AV | | | 1.00 V | 125 | 87.17 | 7.16 |
| 5 | #5855.00 | 48.03 PK | 110.80 | -62.77 | 1.00 V | 0 | 40.55 | 7.48 |
| 6 | 11490.00 | 51.48 PK | 74.00 | -22.52 | 1.25 V | 144 | 36.16 | 15.32 |
| 7 | 11490.00 | 41.55 AV | 54.00 | -12.45 | 1.25 V | 144 | 26.23 | 15.32 |
| 8 | #17235.00 | 54.86 PK | 68.20 | -13.34 | 1.26 V | 156 | 33.79 | 21.07 |

REMARKS:

Dongguan Branch

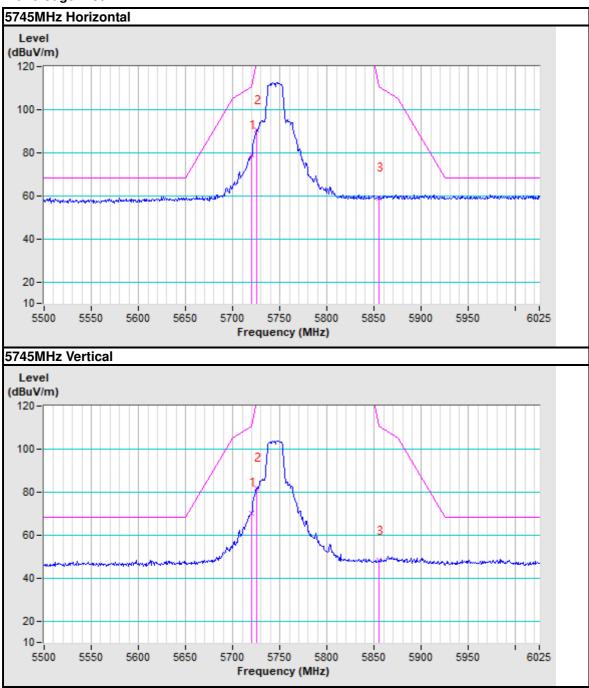
- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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

| | | ANTENNA F | POLARITY 8 | & TEST DIS | ΓANCE : HO | RIZONTAL | AT 3 M | |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5703.91 | 52.90 PK | 106.30 | -53.40 | 1.00 H | 0 | 45.87 | 7.03 |
| 2 | #5722.17 | 54.94 PK | 115.76 | -60.82 | 1.00 H | 0 | 47.85 | 7.09 |
| 3 | *5785.00 | 112.46 PK | | | 1.00 H | 147 | 105.19 | 7.27 |
| 4 | *5785.00 | 102.56 AV | | | 1.00 H | 147 | 95.29 | 7.27 |
| 5 | #5860.65 | 52.14 PK | 109.22 | -57.08 | 1.00 H | 0 | 44.65 | 7.49 |
| 6 | 11570.00 | 52.61 PK | 74.00 | -21.39 | 1.73 H | 126 | 37.09 | 15.52 |
| 7 | 11570.00 | 42.55 AV | 54.00 | -11.45 | 1.73 H | 126 | 27.03 | 15.52 |
| 8 | #17355.00 | 54.66 PK | 68.20 | -13.54 | 1.88 H | 149 | 33.57 | 21.09 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5720.00 | 48.36 PK | 110.80 | -62.44 | 1.00 V | 0 | 41.28 | 7.08 |
| 2 | *5785.00 | 104.55 PK | | | 1.22 V | 154 | 97.28 | 7.27 |
| 3 | *5785.00 | 94.85 AV | | | 1.22 V | 154 | 87.58 | 7.27 |
| 4 | #5862.93 | 48.79 PK | 108.58 | -59.79 | 1.00 V | 0 | 41.30 | 7.49 |
| 5 | #5878.15 | 48.63 PK | 102.86 | -54.23 | 1.00 V | 0 | 41.08 | 7.55 |
| 6 | 11570.00 | 52.34 PK | 74.00 | -21.66 | 1.55 V | 186 | 36.82 | 15.52 |
| 7 | 11570.00 | 42.18 AV | 54.00 | -11.82 | 1.55 V | 186 | 26.66 | 15.52 |
| 8 | #17355.00 | 54.81 PK | 68.20 | -13.39 | 1.20 V | 133 | 33.72 | 21.09 |

REMARKS:

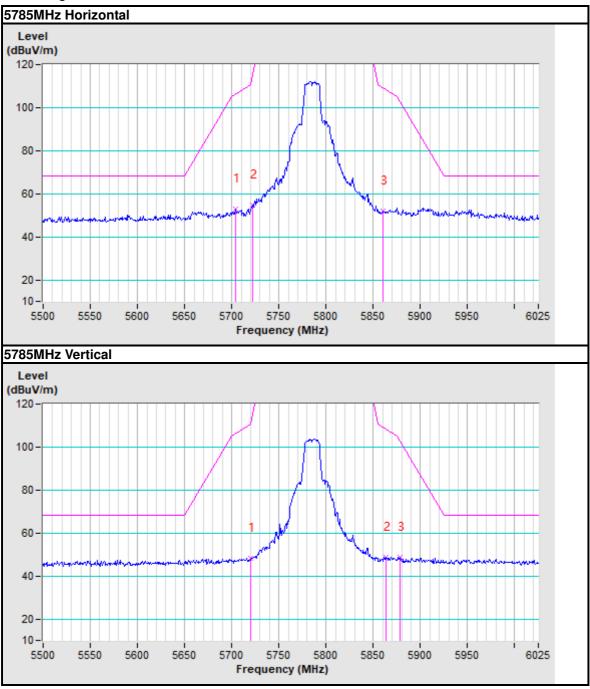
- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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

| | 1 | ANTENNA I | POLARITY 8 | TEST DIS | TANCE : HC | RIZONTAL | AT 3 M | • |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5707.72 | 53.59 PK | 107.36 | -53.77 | 1.00 H | 0 | 46.55 | 7.04 |
| 2 | *5825.00 | 113.87 PK | | | 1.00 H | 103 | 106.48 | 7.39 |
| 3 | *5825.00 | 104.52 AV | | | 1.00 H | 103 | 97.13 | 7.39 |
| 4 | #5850.00 | 76.47 PK | 122.20 | -45.73 | 1.00 H | 0 | 69.01 | 7.46 |
| 5 | #5856.85 | 69.72 PK | 110.28 | -40.56 | 1.00 H | 0 | 62.24 | 7.48 |
| 6 | 11650.00 | 53.25 PK | 74.00 | -20.75 | 1.14 H | 123 | 37.52 | 15.73 |
| 7 | 11650.00 | 41.88 AV | 54.00 | -12.12 | 1.14 H | 123 | 26.15 | 15.73 |
| 8 | #17475.00 | 54.80 PK | 68.20 | -13.40 | 1.20 H | 115 | 33.69 | 21.11 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5741.96 | 51.61 PK | 152.20 | -100.59 | 1.00 V | 0 | 44.47 | 7.14 |
| 2 | *5825.00 | 104.28 PK | | | 1.00 V | 159 | 96.89 | 7.39 |
| 3 | *5825.00 | 94.57 AV | | | 1.00 V | 159 | 87.18 | 7.39 |
| 4 | #5850.00 | 69.67 PK | 122.20 | -52.53 | 1.00 V | 0 | 62.21 | 7.46 |
| 5 | #5856.85 | 62.39 PK | 110.28 | -47.89 | 1.00 V | 0 | 54.91 | 7.48 |
| 6 | 11650.00 | 54.32 PK | 74.00 | -19.68 | 1.47 V | 159 | 38.59 | 15.73 |
| 7 | 11650.00 | 41.69 AV | 54.00 | -12.31 | 1.47 V | 159 | 25.96 | 15.73 |
| 8 | #17475.00 | 54.59 PK | 68.20 | -13.61 | 1.37 V | 184 | 33.48 | 21.11 |

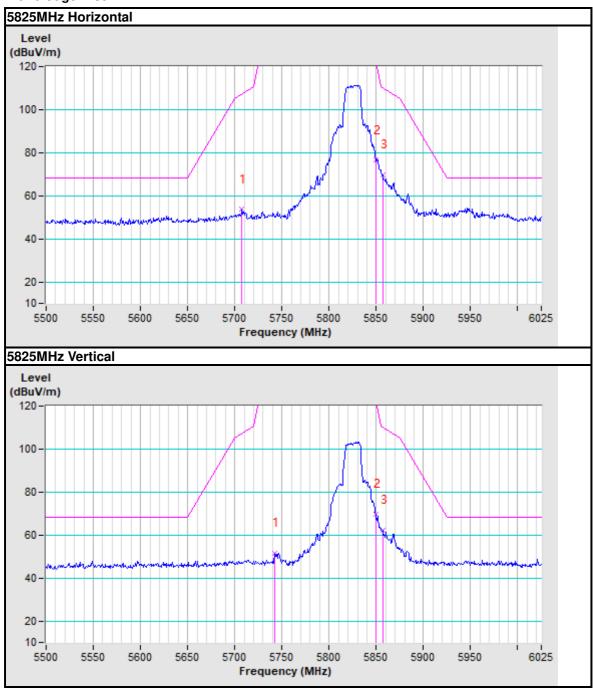
REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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802.11n (20MHz)

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

| | | ANTENNA F | POLARITY 8 | k TEST DIS | TANCE : HO | RIZONTAL | AT 3 M | |
|-----|----------------|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5719.89 | 81.59 PK | 110.77 | -29.18 | 1.00 H | 0 | 74.51 | 7.08 |
| 2 | #5725.00 | 90.13 PK | 122.20 | -32.07 | 1.00 H | 0 | 83.03 | 7.10 |
| 3 | *5745.00 | 113.21 PK | | | 1.00 H | 128 | 106.05 | 7.16 |
| 4 | *5745.00 | 103.86 AV | | | 1.00 H | 128 | 96.70 | 7.16 |
| 5 | #5806.63 | 65.65 PK | 152.20 | -86.55 | 1.00 H | 0 | 58.31 | 7.34 |
| 6 | 11490.00 | 54.35 PK | 74.00 | -19.65 | 1.00 H | 155 | 39.03 | 15.32 |
| 7 | 11490.00 | 42.36 AV | 54.00 | -11.64 | 1.00 H | 155 | 27.04 | 15.32 |
| 8 | #17235.00 | 55.68 PK | 68.20 | -12.52 | 1.25 H | 149 | 34.61 | 21.07 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5720.65 | 76.43 PK | 112.29 | -35.86 | 1.00 V | 0 | 69.34 | 7.09 |
| 2 | #5725.00 | 82.62 PK | 122.20 | -39.58 | 1.00 V | 0 | 75.52 | 7.10 |
| 3 | *5745.00 | 104.56 PK | | | 1.00 V | 150 | 97.40 | 7.16 |
| 4 | *5745.00 | 94.22 AV | | | 1.00 V | 150 | 87.06 | 7.16 |
| 5 | #5805.87 | 57.72 PK | 152.20 | -94.48 | 1.00 V | 0 | 50.38 | 7.34 |
| 6 | 11490.00 | 54.68 PK | 74.00 | -19.32 | 1.00 V | 188 | 39.36 | 15.32 |
| 7 | 11490.00 | 42.51 AV | 54.00 | -11.49 | 1.00 V | 188 | 27.19 | 15.32 |
| 8 | #17235.00 | 55.75 PK | 68.20 | -12.45 | 1.30 V | 156 | 34.68 | 21.07 |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

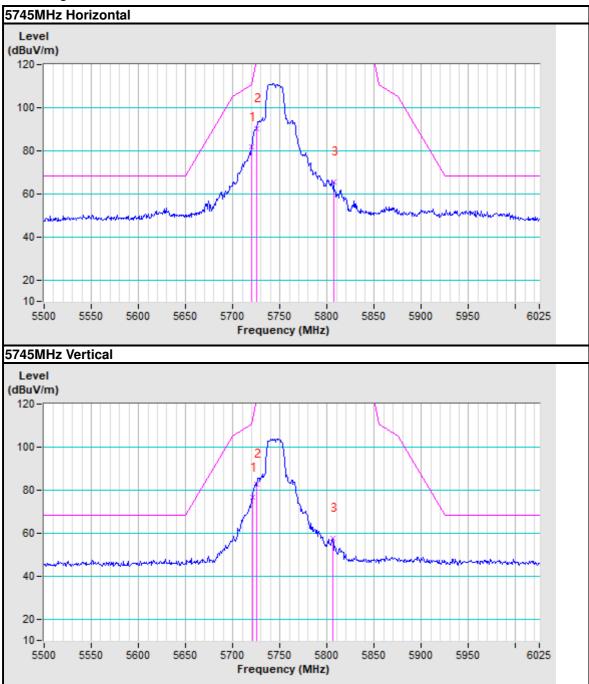
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Town, Dongguan City, Guangdong Province.

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Band edge Plot



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| CHANNEL | TX Channel 157 | DETECTOR | Peak (PK) | |
|-----------------|----------------|----------|--------------|--|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | 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 | #5713.80 | 55.96 PK | 109.07 | -53.11 | 1.00 H | 0 | 48.90 | 7.06 |
| 2 | *5785.00 | 113.08 PK | | | 1.33 H | 120 | 105.81 | 7.27 |
| 3 | *5785.00 | 103.52 AV | | | 1.33 H | 120 | 96.25 | 7.27 |
| 4 | #5854.57 | 59.81 PK | 111.79 | -51.98 | 1.00 H | 0 | 52.33 | 7.48 |
| 5 | #5861.41 | 57.20 PK | 109.00 | -51.80 | 1.00 H | 0 | 49.71 | 7.49 |
| 6 | 11570.00 | 53.86 PK | 74.00 | -20.14 | 1.77 H | 136 | 38.34 | 15.52 |
| 7 | 11570.00 | 41.79 AV | 54.00 | -12.21 | 1.77 H | 136 | 26.27 | 15.52 |
| 8 | #17355.00 | 55.40 PK | 68.20 | -12.80 | 1.45 H | 150 | 34.31 | 21.09 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5724.46 | 52.16 PK | 120.96 | -68.80 | 1.00 V | 0 | 45.06 | 7.10 |
| 2 | *5785.00 | 104.21 PK | | | 1.64 V | 151 | 96.94 | 7.27 |
| 3 | *5785.00 | 94.55 AV | | | 1.64 V | 151 | 87.28 | 7.27 |
| 4 | #5855.33 | 52.10 PK | 110.71 | -58.61 | 1.00 V | 0 | 44.62 | 7.48 |
| 5 | #5866.74 | 49.32 PK | 107.51 | -58.19 | 1.00 V | 0 | 41.81 | 7.51 |
| 6 | 11570.00 | 53.11 PK | 74.00 | -20.89 | 1.22 V | 136 | 37.59 | 15.52 |
| 7 | 11570.00 | 41.62 AV | 54.00 | -12.38 | 1.22 V | 136 | 26.10 | 15.52 |
| 8 | #17355.00 | 55.68 PK | 68.20 | -12.52 | 1.00 V | 126 | 34.59 | 21.09 |

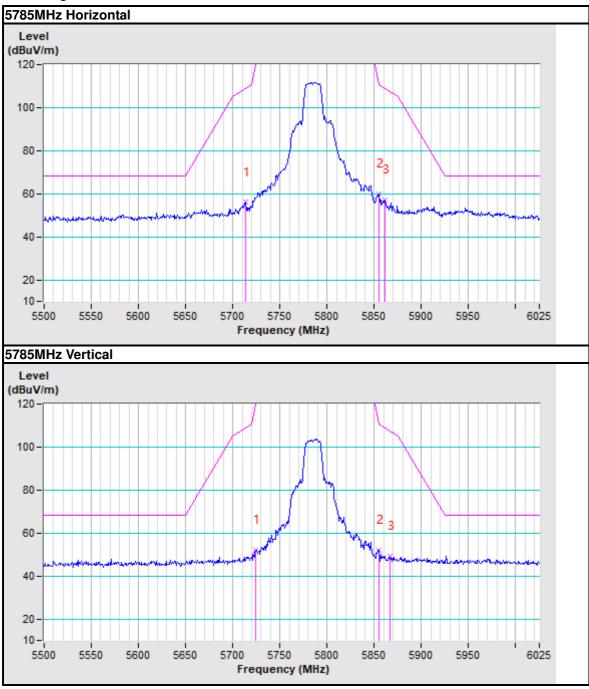
REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 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 165 | DETECTOR | Peak (PK) |
|-----------------|----------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | 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 | #5707.72 | 52.15 PK | 107.36 | -55.21 | 1.00 H | 0 | 45.11 | 7.04 |
| 2 | *5825.00 | 113.10 PK | | | 1.67 H | 152 | 105.71 | 7.39 |
| 3 | *5825.00 | 103.54 AV | | | 1.67 H | 152 | 96.15 | 7.39 |
| 4 | #5850.00 | 81.06 PK | 122.20 | -41.14 | 1.00 H | 0 | 73.60 | 7.46 |
| 5 | #5856.85 | 74.45 PK | 110.28 | -35.83 | 1.00 H | 0 | 66.97 | 7.48 |
| 6 | 11650.00 | 52.77 PK | 74.00 | -21.23 | 1.00 H | 185 | 37.04 | 15.73 |
| 7 | 11650.00 | 41.06 AV | 54.00 | -12.94 | 1.00 H | 185 | 25.33 | 15.73 |
| 8 | #17475.00 | 55.32 PK | 68.20 | -12.88 | 1.22 H | 168 | 34.21 | 21.11 |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) |
| 1 | #5711.52 | 48.51 PK | 108.43 | -59.92 | 1.00 V | 0 | 41.45 | 7.06 |
| 2 | *5825.00 | 104.86 PK | | | 1.87 V | 165 | 97.47 | 7.39 |
| 3 | *5825.00 | 94.77 AV | | | 1.87 V | 165 | 87.38 | 7.39 |
| 4 | #5850.00 | 72.72 PK | 122.20 | -49.48 | 1.00 V | 0 | 65.26 | 7.46 |
| 5 | #5864.46 | 62.35 PK | 108.15 | -45.80 | 1.00 V | 0 | 54.84 | 7.51 |
| 6 | 11650.00 | 52.86 PK | 74.00 | -21.14 | 1.25 V | 144 | 37.13 | 15.73 |
| 7 | 11650.00 | 41.83 AV | 54.00 | -12.17 | 1.25 V | 144 | 26.10 | 15.73 |
| 8 | #17475.00 | 55.15 PK | 68.20 | -13.05 | 1.36 V | 120 | 34.04 | 21.11 |

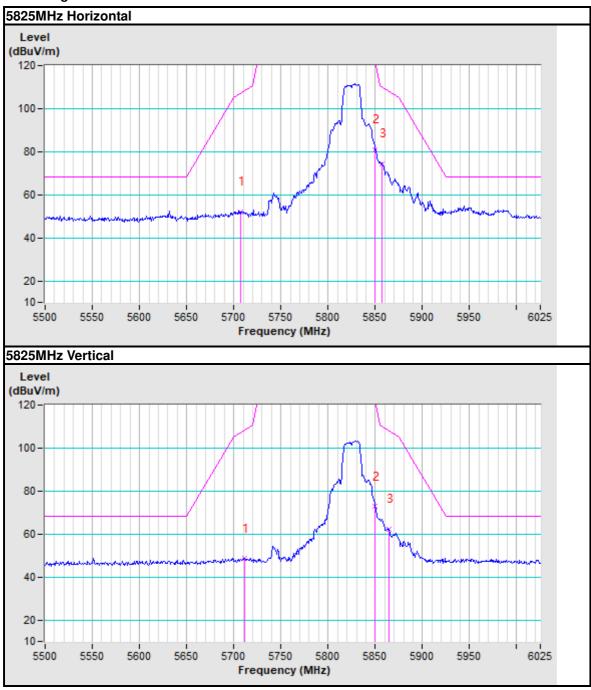
REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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802.11n (40MHz)

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

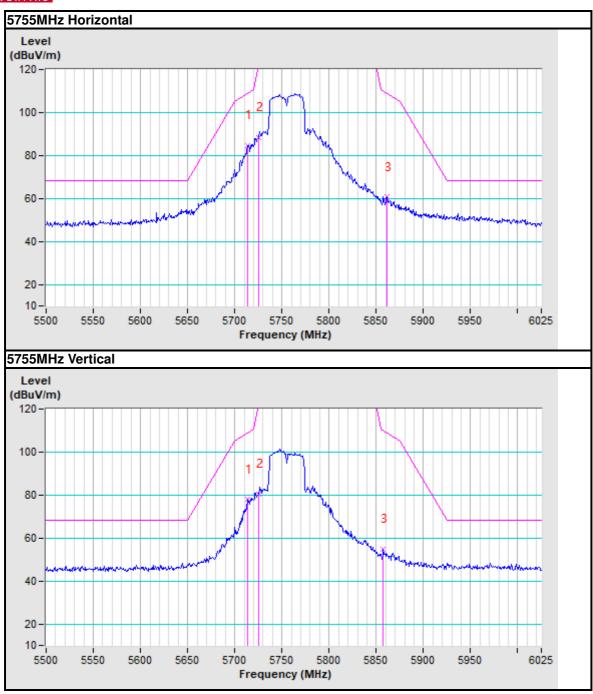
| | ANTENNA POLARITY & TEST DISTANCE : HORIZONTAL AT 3 M | | | | | | | | |
|-----|--|-------------------------------|-------------------|----------------|--------------------------|----------------------------|------------------------|--------------------------------|--|
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | #5713.80 | 84.58 PK | 109.07 | -24.49 | 1.00 H | 0 | 77.52 | 7.06 | |
| 2 | #5725.00 | 88.33 PK | 122.20 | -33.87 | 1.00 H | 0 | 81.23 | 7.10 | |
| 3 | *5755.00 | 109.86 PK | | | 1.20 H | 156 | 102.68 | 7.18 | |
| 4 | *5755.00 | 99.54 AV | | | 1.20 H | 156 | 92.36 | 7.18 | |
| 5 | #5861.41 | 60.60 PK | 109.00 | -48.40 | 1.00 H | 0 | 53.11 | 7.49 | |
| 6 | 11510.00 | 52.11 PK | 74.00 | -21.89 | 1.30 H | 144 | 36.74 | 15.37 | |
| 7 | 11510.00 | 41.58 AV | 54.00 | -12.42 | 1.30 H | 144 | 26.21 | 15.37 | |
| 8 | #17265.00 | 54.45 PK | 68.20 | -13.75 | 1.35 H | 166 | 33.38 | 21.07 | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | |
| 1 | #5713.80 | 77.83 PK | 109.07 | -31.24 | 1.00 V | 0 | 70.77 | 7.06 | |
| 2 | #5725.00 | 80.42 PK | 122.20 | -41.78 | 1.00 V | 0 | 73.32 | 7.10 | |
| 3 | *5755.00 | 102.31 PK | | | 1.20 V | 156 | 95.13 | 7.18 | |
| 4 | *5755.00 | 92.65 AV | | | 1.20 V | 156 | 85.47 | 7.18 | |
| 5 | #5857.61 | 54.65 PK | 110.07 | -55.42 | 1.00 V | 0 | 47.17 | 7.48 | |
| 6 | 11510.00 | 52.55 PK | 74.00 | -21.45 | 1.00 V | 125 | 37.18 | 15.37 | |
| 7 | 11510.00 | 41.37 AV | 54.00 | -12.63 | 1.00 V | 125 | 26.00 | 15.37 | |
| 8 | #17265.00 | 54.86 PK | 68.20 | -13.34 | 1.00 V | 146 | 33.79 | 21.07 | |

REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 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 159 | DETECTOR | Peak (PK) |
|-----------------|----------------|----------|--------------|
| FREQUENCY RANGE | 1GHz ~ 40GHz | FUNCTION | 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 | #5706.20 | 59.68 PK | 106.94 | -47.26 | 1.00 H | 0 | 52.64 | 7.04 | | | |
| 2 | *5795.00 | 109.42 PK | | | 1.47 H | 158 | 102.12 | 7.30 | | | |
| 3 | *5795.00 | 99.85 AV | | | 1.47 H | 158 | 92.55 | 7.30 | | | |
| 4 | #5850.00 | 69.80 PK | 122.20 | -52.40 | 1.00 H | 0 | 62.34 | 7.46 | | | |
| 5 | #5867.50 | 64.17 PK | 107.30 | -43.13 | 1.00 H | 0 | 56.66 | 7.51 | | | |
| 6 | 11590.00 | 52.64 PK | 74.00 | -21.36 | 1.00 H | 160 | 37.07 | 15.57 | | | |
| 7 | 11590.00 | 42.55 AV | 54.00 | -11.45 | 1.00 H | 160 | 26.98 | 15.57 | | | |
| 8 | #17385.00 | 55.62 PK | 68.20 | -12.58 | 1.00 H | 152 | 34.52 | 21.10 | | | |
| | | ANTENNA | POLARITY | & TEST DI | STANCE : V | ERTICAL A | T 3 M | | | | |
| NO. | FREQ. (MHz) | EMISSION LEVEL (dBuV/m) | LIMIT (dBuV/m) | MARGIN (dB) | ANTENNA HEIGHT (m) | TABLE ANGLE (Degree) | RAW VALUE (dBuV) | CORRECTION FACTOR (dB/m) | | | |
| 1 | #5706.20 | 54.48 PK | 106.94 | -52.46 | 1.00 V | 0 | 47.44 | 7.04 | | | |
| 2 | *5795.00 | 102.33 PK | | | 1.25 V | 144 | 95.03 | 7.30 | | | |
| 3 | *5795.00 | 92.45 AV | | | 1.25 V | 144 | 85.15 | 7.30 | | | |
| 4 | #5850.00 | 61.47 PK | 122.20 | -60.73 | 1.00 V | 0 | 54.01 | 7.46 | | | |
| 5 | #5856.85 | 59.58 PK | 110.28 | -50.70 | 1.00 V | 0 | 52.10 | 7.48 | | | |
| 6 | 11590.00 | 52.20 PK | 74.00 | -21.80 | 1.20 V | 183 | 36.63 | 15.57 | | | |
| 7 | 11590.00 | 41.63 AV | 54.00 | -12.37 | 1.20 V | 183 | 26.06 | 15.57 | | | |
| 8 | #17385.00 | 55.75 PK | 68.20 | -12.45 | 1.63 V | 125 | 34.65 | 21.10 | | | |

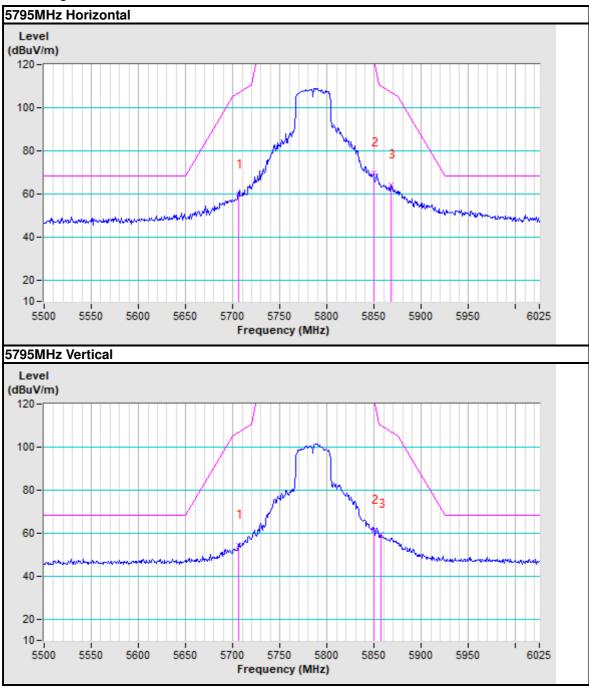
REMARKS:

- 1. Emission level (dBuV/m) = Raw Value (dBuV) + Correction Factor (dB/m).
- 2. Correction Factor (dB/m) = Antenna Factor (dB/m) + Cable Factor (dB).
- 3. The emission levels of other frequencies were greater than 20dB margin.
- 4. Margin value = Emission level Limit value.
- 5. " * ": Fundamental frequency.
- 6. " # ": The radiated frequency is out of the restricted band.

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4.2 CONDUCTED EMISSION MEASUREMENT

4.2.1 LIMITS OF CONDUCTED EMISSION MEASUREMENT

| FREQUENCY OF EMISSION (MHz) | CONDUCTED LIMIT (dBμV) | | | |
|-----------------------------|------------------------|----------------|--|--|
| | Quasi-peak | Average | | |
| 0.15 ~ 0.5 0.5 ~ 5 | 66 to 56 56 | 56 to 46 46 | | |
| 5 ~ 30 | 60 | 50 | | |

NOTES: 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.
- 3. All emanations from a class A/B digital device or system, including any network of conductors and apparatus connected thereto, shall not exceed the level of field strengths specified above.

4.2.2 TEST INSTRUMENTS

| Equipment | Manufacturer | Model No. | Serial No. | Next Cal. |
|--------------------------|---------------|-----------------|-------------|------------|
| EMI Test Receiver | Rohde&Schwarz | ESR7 | 101494 | Jan. 18,23 |
| Artificial Mains Network | Rohde&Schwarz | ENV216 | 101173 | Jan. 23,23 |
| Artificial Mains Network | Rohde&Schwarz | ESH3-Z5 | 100317 | Jan. 18,23 |
| Voltage probe | SCHWARZBECK | TK 9421 | TK 9421-176 | Aug. 05,22 |
| Coaxial RF Cable | / | CE CABLE | C2310066DG | Jul. 27,22 |
| Test software | ADT | ADT_Cond_V7.3.7 | N/A | N/A |

NOTES:

- 1. The test was performed in shielded room 553.
- 2. The calibration interval of the above test instruments is 12 months. And the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

4.2.3 TEST PROCEDURES

- 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.
- 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.

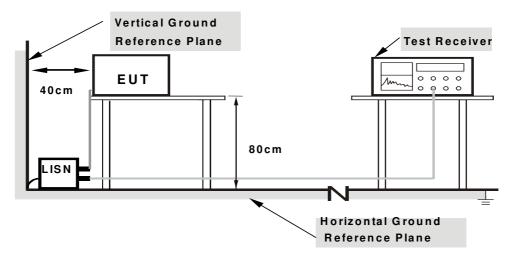
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4.2.4 DEVIATION FROM TEST STANDARD

No deviation.

4.2.5 TEST SETUP



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

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

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

4.2.6 EUT OPERATING CONDITIONS

Same as 4.1.6

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4.2.7 TEST RESULTS

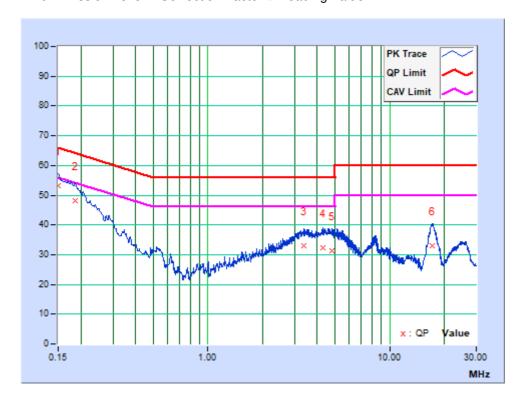
CONDUCTED WORST-CASE DATA: 802.11a CH36

| PHASE | Line | 6dB BANDWIDTH | 9kHz |
|-------|------|---------------|------|
|-------|------|---------------|------|

| No | Freq. [MHz] | Corr. Factor | | g Value (uV)] | | | Limit [dB (uV)] | | Maı (d | rgin B) |
|----|----------------|-----------------|-------|------------------|-------|-------|--------------------|----------|-----------|------------|
| | | (dB) | Q.P. | AV. | Q.P. | AV. | Q.P. | Q.P. AV. | | AV. |
| 1 | 0.15000 | 9.90 | 43.29 | 21.11 | 53.19 | 31.01 | 66.00 | 56.00 | -12.81 | -24.99 |
| 2 | 0.18559 | 9.91 | 38.39 | 14.99 | 48.30 | 24.90 | 64.23 | 54.23 | -15.93 | -29.33 |
| 3 | 3.37425 | 10.14 | 22.72 | 15.12 | 32.86 | 25.26 | 56.00 | 46.00 | -23.14 | -20.74 |
| 4 | 4.31025 | 10.16 | 22.09 | 15.99 | 32.25 | 26.15 | 56.00 | 46.00 | -23.75 | -19.85 |
| 5 | 4.78950 | 10.17 | 21.23 | 15.68 | 31.40 | 25.85 | 56.00 | 46.00 | -24.60 | -20.15 |
| 6 | 17.07450 | 10.44 | 22.43 | 13.55 | 32.87 | 23.99 | 60.00 | 50.00 | -27.13 | -26.01 |

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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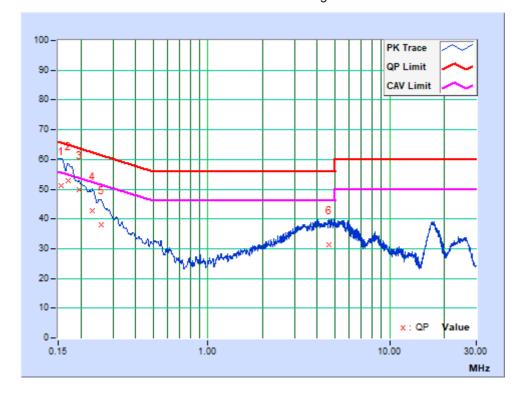


| PHASE | Neutral | 6dB BANDWIDTH | 9kHz |
|-------|---------|---------------|------|
|-------|---------|---------------|------|

| No | Freq. [MHz] | Corr. Factor (dB) | | Reading Value [dB (uV)] Emission Level [dB (uV)] | | | | | rgin B) | |
|----|----------------|-------------------------|-------|--|-------|-------|-------|-------|------------|--------|
| | | (ub) | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. | Q.P. | AV. |
| 1 | 0.15509 | 9.84 | 41.32 | 21.39 | 51.16 | 31.23 | 65.72 | 55.72 | -14.56 | -24.49 |
| 2 | 0.16966 | 9.84 | 42.99 | 21.26 | 52.83 | 31.10 | 64.98 | 54.98 | -12.14 | -23.87 |
| 3 | 0.19514 | 9.85 | 40.12 | 14.69 | 49.97 | 24.54 | 63.81 | 53.81 | -13.85 | -29.28 |
| 4 | 0.23106 | 9.85 | 33.05 | 12.90 | 42.90 | 22.75 | 62.41 | 52.41 | -19.51 | -29.66 |
| 5 | 0.25748 | 9.85 | 28.13 | 7.74 | 37.98 | 17.59 | 61.51 | 51.51 | -23.53 | -33.92 |
| 6 | 4.63875 | 9.97 | 21.31 | 16.09 | 31.28 | 26.06 | 56.00 | 46.00 | -24.72 | -19.94 |

REMARKS: 1. Q.P. and AV. are abbreviations of quasi-peak and average individually.

- 2. "-": The Quasi-peak reading value also meets average limit and measurement with the average detector is unnecessary.
- 3. The emission levels of other frequencies were very low against the limit.
- 4. Margin value = Emission level Limit value
- 5. Correction factor = Insertion loss + Cable loss
- 6. Emission Level = Correction Factor + Reading Value.



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4.3 TRANSMIT POWER MEASUREMENT

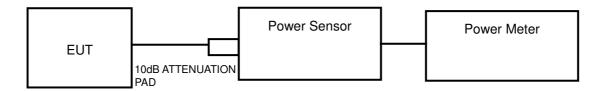
4.3.1 LIMITS OF TRANSMIT POWER MEASUREMENT

| FREQUENCY BAND | LIMIT |
|------------------|--|
| 5.150 ~ 5.250GHz | EIRP shall not exceed 200mW or 10+ 10logB, dBm |
| 5.250 ~ 5.350GHz | Conducted output power shall not exceed 250mW or 11+ |
| 5.470 ~ 5.600GHz | 10logB, dBm |
| 5.650 ~ 5.725GHz | EIRP shall not exceed 1.0W or 17+ 10logB, dBm |
| 5.725 ~ 5.825GHz | Conducted output power shall not exceed 1 W. |

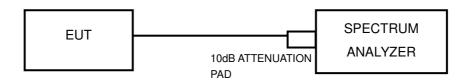
NOTE: Where B is the 99% emission bandwidth in MHz.

4.3.2 TEST SETUP

FOR POWER OUTPUT MEASUREMENT



FOR 99% BANDWIDTH



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4.3.3 TEST INSTRUMENTS

| Equipment | Manufacturer | Model No. | Serial No. | Next Cal. |
|-------------------------------------|----------------------|-------------------------------------|-------------|-------------|
| Power Sensor | Keysight | ht U2021XA | | Feb.23.23 |
| Power Sensor | Keysight | U2021XA | MY55060018 | May 09, 22 |
| Power Meter | Anritsu | ML2495A | 1139001 | Feb. 24, 22 |
| Power Sensor | Anritsu | MA2411B | 1531155 | Feb. 24, 22 |
| Digital Multimeter | FLUKE | 15B | A1220010DG | N/A |
| Humid & Temp Programmable Tester | Haida | HD-225T | 110807201 | Nov. 03, 22 |
| Oscilloscope | Agilent | DSO9254A | MY51260160 | Aug. 11, 22 |
| Signal and Spectrum Analyzer | Rohde&Schwarz | FSV40 | 101094 | Jan. 16, 23 |
| Signal Generator | Agilent | N5183A | MY50140980 | Mar 23, 23 |
| MXG-B RF Vector Signal Generator | Keysight | N5182B | MY56200288 | Sep. 14, 22 |
| Attenuator | MINI | BW-S10W2+ | S130129FGE2 | N/A |
| DC Source | urce Keysight E3642A | | MY56146098 | N/A |
| Test software | ADT | ADT_RF Test Software V6.6.5.3 | N/A | N/A |

NOTES:

- 1. The test was performed in RF Oven room.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.

4.3.4 TEST PROCEDURE

FOR AVERAGE POWER MEASUREMENT

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

FOR 99% BANDWIDTH

The transmitter antenna output was connected to the spectrum analyzer through an attenuator. The resolution bandwidth shall be set to the range of 1% to 5% of the anticipated emission bandwidth, and a video bandwidth at least 3x the resolution bandwidth.

Below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

4.3.5 DEVIATION FROM TEST STANDARD

No deviation.

No. 96, Guantai Road (Houjie Section), Houjie Town, Dongguan City, Guangdong Province. 523942. People's Republic of China.

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4.3.6 EUT OPERATING CONDITIONS

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

4.3.7 TEST RESULTS

OUTPUT POWER:

For 5.180~5.240GHz

PCB Antenna

802.11a

| CHANNEL | CHANNEL FREQUENCY (MHz) | CONDUCTED POWER (dBm) | CONDUCTED POWER (mW) | EIRP POWER (dBm) | EIRP LIMIT (dBm) | PASS/ FAIL |
|---------|-------------------------------|--------------------------|-------------------------|------------------------|---------------------|---------------|
| 36 | 5180 | 17.62 | 57.810 | 18.90 | 22.46 | PASS |
| 44 | 5220 | 18.10 | 64.565 | 19.38 | 22.46 | PASS |
| 48 | 5240 | 18.65 | 73.282 | 19.93 | 22.54 | PASS |

NOTES:

- 1. 10dBm+ 10log(17.60) =22.46dBm <23.01dBm
- 2. 10dBm+ 10log(17.60) =22.46dBm <23.01dBm
- 3. 10dBm + 10log(17.93) = 22.54dBm < 23.01dBm

802.11n (20MHz)

| CHANNEL | CHANNEL FREQUENCY (MHz) | CONDUCTED POWER (dBm) | CONDUCTED POWER (mW) | POWER | EIRP LIMIT (dBm) | PASS/ FAIL |
|---------|-------------------------------|--------------------------|-------------------------|-------|---------------------|---------------|
| 36 | 5180 | 17.25 | 53.088 | 18.53 | 22.62 | PASS |
| 44 | 5220 | 17.81 | 60.395 | 19.09 | 22.62 | PASS |
| 48 | 5240 | 18.18 | 65.766 | 19.46 | 22.69 | PASS |

NOTES:

- 1. 10dBm+ 10log(18.26) =22.62dBm <23.01dBm
- 2. 10dBm+ 10log(18.26) =22.62dBm <23.01dBm
- 3. 10dBm+ 10log(18.58) =22.69dBm <23.01dBm

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802.11n (40MHz)

| CHANNEL | CHANNEL FREQUENCY (MHz) | CONDUCTED POWER (dBm) | CONDUCTED POWER (mW) | EIRP POWER (dBm) | EIRP LIMIT (dBm) | PASS/ FAIL |
|---------|-------------------------------|--------------------------|-------------------------|------------------------|---------------------|---------------|
| 38 | 5190 | 17.24 | 52.966 | 18.52 | 23.01 | PASS |
| 46 | 5230 | 19.10 | 81.283 | 20.38 | 23.01 | PASS |

NOTES:

- 1. 10dBm + 10log(36.19) = 25.59dBm > 23.01dBm
- 2. 10dBm+ 10log(38.15) =25.81dBm >23.01dBm

External PCB Antenna

802.11a

| CHANNEL | CHANNEL FREQUENCY (MHz) | CONDUCTED POWER (dBm) | CONDUCTED POWER (mW) | EIRP POWER (dBm) | EIRP LIMIT (dBm) | PASS/ FAIL |
|---------|-------------------------------|--------------------------|-------------------------|------------------------|---------------------|---------------|
| 36 | 5180 | 17.62 | 57.810 | 17.30 | 22.46 | PASS |
| 44 | 5220 | 18.10 | 64.565 | 17.78 | 22.46 | PASS |
| 48 | 5240 | 18.65 | 73.282 | 18.33 | 22.54 | PASS |

NOTES:

- 1. 10dBm + 10log(17.60) = 22.46dBm < 23.01dBm
- 2. 10dBm+ 10log(17.60) =22.46dBm <23.01dBm
- 3. 10dBm + 10log(17.93) = 22.54dBm < 23.01dBm

802.11n (20MHz)

| CHANNEL | CHANNEL FREQUENCY (MHz) | CONDUCTED POWER (dBm) | CONDUCTED POWER (mW) | EIRP POWER (dBm) | EIRP LIMIT (dBm) | PASS/ FAIL |
|---------|-------------------------------|--------------------------|-------------------------|------------------------|---------------------|---------------|
| 36 | 5180 | 17.25 | 53.088 | 16.93 | 22.62 | PASS |
| 44 | 5220 | 17.81 | 60.395 | 17.49 | 22.62 | PASS |
| 48 | 5240 | 18.18 | 65.766 | 17.86 | 22.69 | PASS |

NOTES:

- 1. 10dBm + 10log(18.26) = 22.62dBm < 23.01dBm
- 2. 10dBm+ 10log(18.26) =22.62dBm <23.01dBm
- 3. 10dBm + 10log(18.58) = 22.69dBm < 23.01dBm

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802.11n (40MHz)

| CHANNEL | CHANNEL FREQUENCY (MHz) | CONDUCTED POWER (dBm) | CONDUCTED POWER (mW) | EIRP POWER (dBm) | EIRP LIMIT (dBm) | PASS/ FAIL |
|---------|-------------------------------|--------------------------|-------------------------|------------------------|---------------------|---------------|
| 38 | 5190 | 17.24 | 52.966 | 16.92 | 23.01 | PASS |
| 46 | 5230 | 19.10 | 81.283 | 18.78 | 23.01 | PASS |

NOTES:

- 1. 10dBm + 10log(36.19) = 25.59dBm > 23.01dBm
- 2. 10dBm + 10log(38.15) = 25.81dBm > 23.01dBm

For 5.260~5.320GHz, 5.500 ~ 5.580GHz and 5.660 ~ 5.700GHz

802.11a

| Channel Number | FREQ. (MHz) | AVG. CONDUCTED POWER (dBm) | AVG. CONDUCTED POWER (mW) | LIMIT (dBm) | PASS /FAIL |
|-------------------|----------------|----------------------------------|------------------------------|----------------|------------|
| 52 | 5260 | 18.78 | 75.509 | 23.54 | PASS |
| 60 | 5300 | 19.12 | 81.658 | 23.77 | PASS |
| 64 | 5320 | 19.11 | 81.470 | 23.54 | PASS |
| 100 | 5500 | 19.91 | 97.949 | 23.84 | PASS |
| 116 | 5580 | 19.49 | 88.920 | 23.54 | PASS |
| 140 | 5700 | 14.82 | 30.339 | 23.21 | PASS |

NOTES:

CONDUCTED POWER

- 1. 11dBm + 10log (17.93) = 23.54dBm < 23.98dBm
- 2. 11dBm + 10log (18.91) = 23.77dBm < 23.98dBm
- 3. 11dBm + 10log (17.93) = 23.54dBm < 23.98dBm
- 4. 11dBm + 10log (19.23) = 23.84dBm < 23.98dBm
- 5. 11dBm + 10log (17.93) = 23.54dBm < 23.98dBm
- 6. 11dBm + 10log (16.63) = 23.21dBm < 23.98dBm

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802.11n (20MHz)

| Channel Number | FREQ. (MHz) | AVG. CONDUCTED POWER (dBm) | AVG. CONDUCTED POWER (mW) | LIMIT (dBm) | PASS /FAIL |
|-------------------|----------------|----------------------------------|---------------------------------|-------------|------------|
| 52 | 5260 | 18.59 | 72.277 | 23.76 | PASS |
| 60 | 5300 | 18.82 | 76.208 | 23.76 | PASS |
| 64 | 5320 | 18.74 | 74.817 | 23.69 | PASS |
| 100 | 5500 | 19.21 | 83.368 | 23.69 | PASS |
| 116 | 5580 | 18.73 | 74.645 | 23.62 | PASS |
| 140 | 5700 | 15.22 | 33.266 | 23.54 | PASS |

NOTES:

CONDUCTED POWER

- 1. 11dBm + 10log(18.90) = 23.76dBm < 23.98dBm
- 2. 11dBm+ 10log(18.90) =23.76dBm < 23.98dBm
- 3. 11dBm + 10log(18.58) = 23.69dBm < 23.98dBm
- 4. 11dBm + 10log(18.58) = 23.69dBm < 23.98dBm
- 5. 11dBm+ 10log(18.26) =23.62dBm < 23.98dBm
- 6. 11dBm+ 10log(17.93) =23.54dBm < 23.98dBm

802.11n (40MHz)

| Channel Number | FREQ. (MHz) | AVG. CONDUCTED POWER (dBm) | AVG. CONDUCTED POWER (mW) | LIMIT (dBm) | PASS /FAIL |
|-------------------|----------------|----------------------------------|---------------------------------|-------------|------------|
| 54 | 5270 | 18.87 | 77.090 | 23.98 | PASS |
| 62 | 5310 | 18.41 | 69.343 | 23.98 | PASS |
| 102 | 5510 | 17.23 | 52.845 | 23.98 | PASS |
| 110 | 5550 | 19.63 | 91.833 | 23.98 | PASS |
| 134 | 5670 | 16.81 | 47.973 | 23.98 | PASS |

NOTES:

CONDUCTED POWER

- 1. 11dBm + 10log (37.49) = 26.74dBm > 23.98dBm
- 2. 11dBm + 10log(36.52) = 26.63dBm > 23.98dBm
- 3. 11dBm + 10log (36.52) = 26.63dBm > 23.98dBm
- 4. 11dBm + 10log (38.00) = 26.80dBm > 23.98dBm
- 5. 11dBm + 10log (35.86) = 26.55dBm > 23.98dBm

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For 5745~5825MHz 802.11a

| Channel Number | FREQ. (MHz) | AVG. CONDUCTED POWER (dBm) | AVG. CONDUCTED POWER (mW) | LIMIT (dBm) | PASS /FAIL |
|-------------------|----------------|----------------------------------|---------------------------------|-------------|------------|
| 149 | 5745 | 19.61 | 91.411 | 30.00 | PASS |
| 157 | 5785 | 18.53 | 71.285 | 30.00 | PASS |
| 165 | 5825 | 18.48 | 70.469 | 30.00 | PASS |

802.11n (20MHz)

| Channel Number | FREQ. (MHz) | AVG. CONDUCTED POWER (dBm) | AVG. CONDUCTED POWER (mW) | LIMIT (dBm) | PASS /FAIL |
|-------------------|----------------|----------------------------------|---------------------------------|-------------|------------|
| 149 | 5745 | 19.27 | 84.528 | 30.00 | PASS |
| 157 | 5785 | 18.52 | 71.121 | 30.00 | PASS |
| 165 | 5825 | 18.32 | 67.920 | 30.00 | PASS |

802.11n (40MHz)

| Channel Number | FREQ. (MHz) | AVG. CONDUCTED POWER (dBm) | AVG. CONDUCTED POWER (mW) | LIMIT (dBm) | PASS /FAIL |
|-------------------|----------------|----------------------------------|---------------------------------|-------------|------------|
| 151 | 5755 | 19.56 | 90.365 | 30.00 | PASS |
| 159 | 5795 | 18.57 | 71.945 | 30.00 | PASS |

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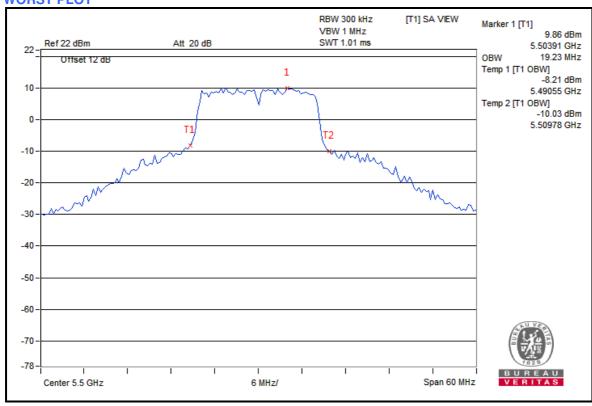


99% BANDWIDTH

802.11a

| CHANNEL | CHANNEL FREQUENCY (MHz) | 99% BANDWIDTH (MHz) | PASS / FAIL |
|---------|----------------------------|---------------------|-------------|
| 36 | 5180 | 17.60 | PASS |
| 44 | 5220 | 17.60 | PASS |
| 48 | 5240 | 17.93 | PASS |
| 52 | 5260 | 17.93 | PASS |
| 60 | 5300 | 18.91 | PASS |
| 64 | 5320 | 17.93 | PASS |
| 100 | 5500 | 19.23 | PASS |
| 116 | 5580 | 17.93 | PASS |
| 140 | 5700 | 16.63 | PASS |
| 149 | 5745 | 17.60 | PASS |
| 157 | 5785 | 16.96 | PASS |
| 165 | 5825 | 17.28 | PASS |

WORST PLOT



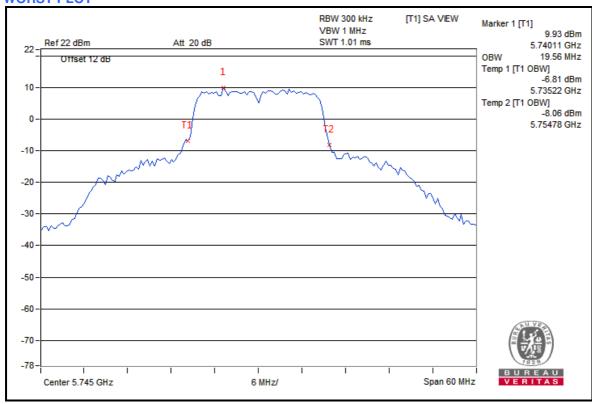
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802.11n (20MHz)

| | · | 1 | |
|---------|----------------------------|---------------------|-------------|
| CHANNEL | CHANNEL FREQUENCY (MHz) | 99% BANDWIDTH (MHz) | PASS / FAIL |
| 36 | 5180 | 18.26 | PASS |
| 44 | 5220 | 18.26 | PASS |
| 48 | 5240 | 18.58 | PASS |
| 52 | 5260 | 18.90 | PASS |
| 60 | 5300 | 18.90 | PASS |
| 64 | 5320 | 18.58 | PASS |
| 100 | 5500 | 18.58 | PASS |
| 116 | 5580 | 18.26 | PASS |
| 140 | 5700 | 17.93 | PASS |
| 149 | 5745 | 19.56 | PASS |
| 157 | 5785 | 18.26 | PASS |
| 165 | 5825 | 18.26 | PASS |

WORST PLOT



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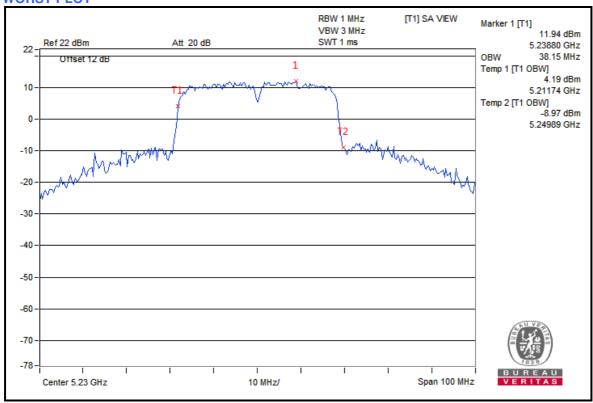
 $\textbf{Email:} \ \underline{\text{customerservice.dg@bureauveritas.com}}$



802.11n (40MHz)

| CHANNEL | CHANNEL FREQUENCY (MHz) | 99% BANDWIDTH (MHz) | PASS / FAIL | | |
|---------|----------------------------|---------------------|-------------|--|--|
| 38 | 5190 | 36.19 | PASS | | |
| 46 | 5230 | 38.15 | PASS | | |
| 54 | 5270 | 37.49 | PASS | | |
| 62 | 5310 | 36.52 | PASS | | |
| 102 | 5510 | 36.52 | PASS | | |
| 110 | 5550 | 38.00 | PASS | | |
| 134 | 5670 | 35.86 | PASS | | |
| 151 | 5755 | 36.84 | PASS | | |
| 159 | 5795 | 36.38 | PASS | | |

WORST PLOT



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4.4 PEAK POWER SPECTRAL DENSITY MEASUREMENT

4.4.1 LIMITS OF PEAK POWER SPECTRAL DENSITY MEASUREMENT

| FREQUENCY BAND | LIMIT(dBm) |
|--------------------|--|
| 5.15 ~ 5.25GHz | EIRP spectral density shall not exceed 10 dBm in any 1.0 MHz band. |
| 5.25 ~ 5.35GHz and | Power spectral density shall not exceed 11 dBm in any 1.0 MHz band. |
| 5.470 ~ 5.725GHz | rower spectral density shall not exceed 11 dbin in any 1.0 MHz band. |
| 5.725~5825GHz | Power spectral density shall not exceed 30 dBm in any 500 kHz band. |

4.4.2 TEST SETUP



4.4.3 TEST INSTRUMENTS

| Equipment | Manufacturer | Model No. | Serial No. | Next Cal. |
|-------------------------------------|---------------|----------------------------------|-------------|-------------|
| Power Sensor | Keysight | U2021XA | MY57320002 | Feb.23.23 |
| Power Sensor | Keysight | U2021XA | MY55060018 | May 09, 22 |
| Power Meter | Anritsu | ML2495A | 1139001 | Feb. 24, 22 |
| Power Sensor | Anritsu | MA2411B | 1531155 | Feb. 24, 22 |
| Digital Multimeter | FLUKE | 15B | A1220010DG | N/A |
| Humid & Temp Programmable Tester | Haida | HD-225T | 110807201 | Nov. 03, 22 |
| Oscilloscope | Agilent | DSO9254A | MY51260160 | Aug. 11, 22 |
| Signal and Spectrum Analyzer | Rohde&Schwarz | FSV40 | 101094 | Jan. 16, 23 |
| Signal Generator | Agilent | N5183A | MY50140980 | Mar 23, 23 |
| MXG-B RF Vector Signal Generator | Keysight | N5182B | MY56200288 | Sep. 14, 22 |
| Attenuator | MINI | BW-S10W2+ | S130129FGE2 | N/A |
| DC Source | Keysight | E3642A | MY56146098 | N/A |
| Test software | ADT | ADT_RF Test Software V6.6.5.3 | N/A | N/A |

NOTES:

- 1. The test was performed in RF Oven room.
- 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to CEPREI/CHINA, GRGT/CHINA and NIM/CHINA.



4.4.4 TEST PROCEDURES

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

Using method SA-2

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

For U-NII-3 band:

Using method SA-2

- 1) Set span to encompass the entire emission bandwidth (EBW) of the signal.
- 2) Set RBW = 500 kHz, Set VBW = 2 MHz, Detector = RMS
- 3) Set Channel power measure = 1MHz
- 4) Sweep time = auto, trigger set to "free run".
- 5) Trace average at least 100 traces in power averaging mode.
- 6) Record the max value and add 10 log (1/duty cycle)

4.4.5 DEVIATION FROM TEST STANDARD

No deviation.

4.4.6 EUT OPERATING CONDITIONS

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

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4.4.7 TEST RESULTS

For U-NII-1: PCB Antenna

802.11a

| Channel | Frequency (MHz) | PSD (dBm/MHz) | Duty Factor (dB) | PSD with Duty Factor (dBm/MHz) | Ant. Gain (dBi) | MAX.EIRP PSD (dBm) | EIRP PSD Limit (dBm) | PASS / FAIL |
|---------|--------------------|------------------|------------------------|--------------------------------------|--------------------|--------------------------|----------------------------|----------------|
| 36 | 5180 | 4.15 | 0.269 | 4.419 | 1.28 | 5.699 | 10.00 | PASS |
| 44 | 5200 | 4.60 | 0.269 | 4.869 | 1.28 | 6.149 | 10.00 | PASS |
| 48 | 5240 | 5.18 | 0.269 | 5.449 | 1.28 | 6.729 | 10.00 | PASS |

Notes: Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

| Channel | Frequency (MHz) | PSD (dBm/MHz) | Duty Factor (dB) | PSD with Duty Factor (dBm/MHz) | Ant. Gain (dBi) | MAX.EIRP PSD (dBm) | EIRP PSD Limit (dBm) | PASS / FAIL |
|---------|--------------------|------------------|------------------------|--------------------------------------|--------------------|--------------------------|----------------------------|----------------|
| 36 | 5180 | 3.45 | 0.306 | 3.756 | 1.28 | 5.036 | 10.00 | PASS |
| 44 | 5200 | 3.99 | 0.306 | 4.296 | 1.28 | 5.576 | 10.00 | PASS |
| 48 | 5240 | 4.25 | 0.306 | 4.556 | 1.28 | 5.836 | 10.00 | PASS |

Notes: Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

| Channel | Frequency (MHz) | PSD (dBm/MHz) | Duty Factor (dB) | PSD with Duty Factor (dBm/MHz) | Ant. Gain (dBi) | MAX.EIRP PSD (dBm) | EIRP PSD Limit (dBm) | PASS / FAIL |
|---------|--------------------|------------------|------------------------|--------------------------------------|--------------------|--------------------------|----------------------------|----------------|
| 38 | 5190 | 0.13 | 0.57 | 0.700 | 1.28 | 1.980 | 10.00 | PASS |
| 46 | 5230 | 2.87 | 0.57 | 3.440 | 1.28 | 4.720 | 10.00 | PASS |

Notes: Refer to section 3.3 for duty cycle spectrum plot.

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For U-NII-1: External PCB Antenna

802.11a

| Channel | Frequency (MHz) | PSD (dBm/MHz) | Duty Factor (dB) | PSD with Duty Factor (dBm/MHz) | Ant. Gain (dBi) | MAX.EIRP PSD (dBm) | EIRP PSD Limit (dBm) | PASS / FAIL |
|---------|--------------------|------------------|------------------------|--------------------------------------|--------------------|--------------------------|----------------------------|----------------|
| 36 | 5180 | 4.15 | 0.269 | 4.419 | -0.32 | 4.099 | 10.00 | PASS |
| 44 | 5200 | 4.60 | 0.269 | 4.869 | -0.32 | 4.549 | 10.00 | PASS |
| 48 | 5240 | 5.18 | 0.269 | 5.449 | -0.32 | 5.129 | 10.00 | PASS |

Notes: Refer to section 3.3 for duty cycle spectrum plot.

802.11n (20MHz)

| Channel | Frequency (MHz) | PSD (dBm/MHz) | Duty Factor (dB) | PSD with Duty Factor (dBm/MHz) | Ant. Gain (dBi) | MAX.EIRP PSD (dBm) | EIRP PSD Limit (dBm) | PASS / FAIL |
|---------|--------------------|------------------|------------------------|--------------------------------------|--------------------|--------------------------|----------------------------|----------------|
| 36 | 5180 | 3.45 | 0.306 | 3.756 | -0.32 | 3.436 | 10.00 | PASS |
| 44 | 5200 | 3.99 | 0.306 | 4.296 | -0.32 | 3.976 | 10.00 | PASS |
| 48 | 5240 | 4.25 | 0.306 | 4.556 | -0.32 | 4.236 | 10.00 | PASS |

Notes: Refer to section 3.3 for duty cycle spectrum plot.

802.11n (40MHz)

| Channel | Frequency (MHz) | PSD (dBm/MHz) | Duty Factor (dB) | PSD with Duty Factor (dBm/MHz) | Ant. Gain (dBi) | MAX.EIRP PSD (dBm) | EIRP PSD Limit (dBm) | PASS / FAIL |
|---------|--------------------|------------------|------------------------|--------------------------------------|--------------------|--------------------------|----------------------------|----------------|
| 38 | 5190 | 0.13 | 0.57 | 0.700 | -0.32 | 0.380 | 10.00 | PASS |
| 46 | 5230 | 2.87 | 0.57 | 3.440 | -0.32 | 3.120 | 10.00 | PASS |

Notes: Refer to section 3.3 for duty cycle spectrum plot.

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For U-NII-2A & U-NII-2C, For U-NII-3:

802.11a

| Channel | Frequency (MHz) | PSD W/O Duty Factor (dBm/MHz) | Duty Factor (dB) | PSD with Duty Factor (dBm/MHz) | MAX. Limit (dBm) | PASS / FAIL |
|---------|--------------------|-------------------------------------|------------------|--------------------------------------|------------------------|-------------|
| 52 | 5260 | 5.56 | 0.269 | 5.829 | 11.00 | PASS |
| 60 | 5300 | 5.88 | 0.269 | 6.149 | 11.00 | PASS |
| 64 | 5320 | 5.48 | 0.269 | 5.749 | 11.00 | PASS |
| 100 | 5500 | 6.37 | 0.269 | 6.639 | 11.00 | PASS |
| 116 | 5580 | 5.81 | 0.269 | 6.079 | 11.00 | PASS |
| 140 | 5700 | 2.21 | 0.269 | 2.479 | 11.00 | PASS |

| Chan. | Freq. (MHz) | PSD (dBm/500kHz) | Duty Factor (dB) | Total PSD (dBm/500kHz) | Limit (dBm/500kHz) | PASS / FAIL |
|-------|----------------|---------------------|---------------------|---------------------------|-----------------------|----------------|
| 149 | 5745 | 4.42 | 0.269 | 4.689 | 30.00 | PASS |
| 157 | 5785 | 3.28 | 0.269 | 3.549 | 30.00 | PASS |
| 165 | 5825 | 3.23 | 0.269 | 3.499 | 30.00 | PASS |

Notes: Refer to section 3.3 for duty cycle spectrum plot.

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802.11n (20MHz)

| Channel | Frequency (MHz) | PSD W/O Duty Factor (dBm/MHz) | Duty Factor (dB) | PSD with Duty Factor (dBm/MHz) | MAX. Limit (dBm) | PASS / FAIL |
|---------|--------------------|-------------------------------------|------------------|--------------------------------------|------------------------|-------------|
| 52 | 5260 | 4.92 | 0.306 | 5.226 | 11.00 | PASS |
| 60 | 5300 | 5.06 | 0.306 | 5.366 | 11.00 | PASS |
| 64 | 5320 | 5.00 | 0.306 | 5.306 | 11.00 | PASS |
| 100 | 5500 | 5.42 | 0.306 | 5.726 | 11.00 | PASS |
| 116 | 5580 | 4.82 | 0.306 | 5.126 | 11.00 | PASS |
| 140 | 5700 | 1.34 | 0.306 | 1.646 | 11.00 | PASS |

| Chan. | Freq. (MHz) | PSD (dBm/500kHz) | Duty Factor (dB) | Total PSD (dBm/500kHz) | Limit (dBm/500kHz) | PASS / FAIL |
|-------|----------------|---------------------|---------------------|---------------------------|-----------------------|----------------|
| 149 | 5745 | 4.07 | 0.306 | 4.376 | 30.00 | PASS |
| 157 | 5785 | 3.11 | 0.306 | 3.416 | 30.00 | PASS |
| 165 | 5825 | 2.87 | 0.306 | 3.176 | 30.00 | PASS |

Notes: Refer to section 3.3 for duty cycle spectrum plot.

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802.11n (40MHz)

| Channel | Frequency (MHz) | PSD W/O Duty Factor (dBm/MHz) | Duty Factor (dB) | PSD with Duty Factor (dBm/MHz) | MAX. Limit (dBm) | PASS / FAIL |
|---------|--------------------|-------------------------------------|---------------------|--------------------------------------|------------------------|-------------|
| 54 | 5270 | 2.01 | 0.57 | 2.580 | 11.00 | PASS |
| 62 | 5310 | 1.42 | 0.57 | 1.990 | 11.00 | PASS |
| 102 | 5510 | 0.79 | 0.57 | 1.360 | 11.00 | PASS |
| 118 | 5590 | 2.68 | 0.57 | 3.250 | 11.00 | PASS |
| 134 | 5670 | -0.31 | 0.57 | 0.260 | 11.00 | PASS |

| Chan. | Freq. (MHz) | PSD (dBm/500kHz) | Duty Factor (dB) | Total PSD (dBm/500kHz) | Limit (dBm/500kHz) | PASS / FAIL |
|-------|----------------|---------------------|---------------------|---------------------------|-----------------------|----------------|
| 151 | 5755 | 0.53 | 0.57 | 1.100 | 30.00 | PASS |
| 159 | 5795 | -0.15 | 0.57 | 0.420 | 30.00 | PASS |

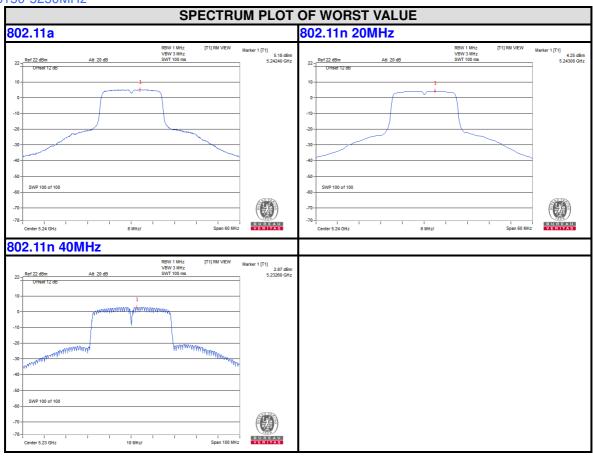
Notes: Refer to section 3.3 for duty cycle spectrum plot.

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PSD Test Plot

BAND 1 5150-5250MHz

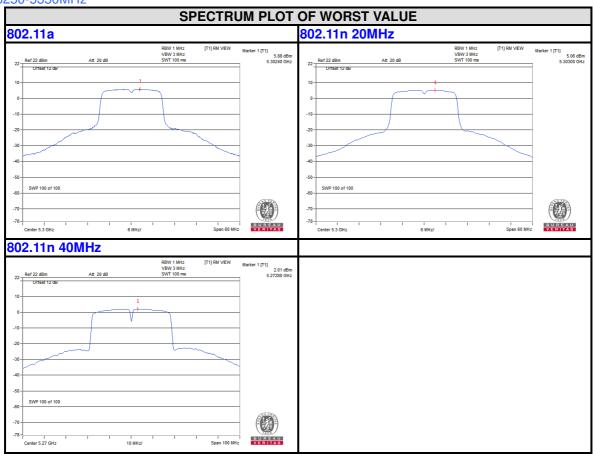


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BAND 2 5250-5350MHz



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BAND 3 5470-5725MHz

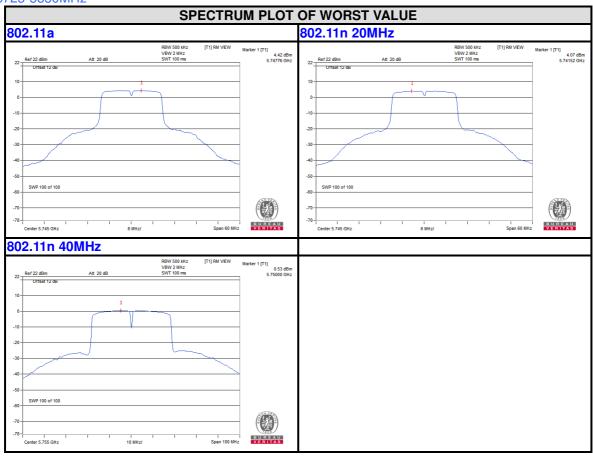


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BAND4 5725-5850MHz



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4.5 6dB BANDWIDTH MEASURMENT

4.5.1 LIMITS OF 6dB BANDWIDTH MEASUREMENT

The minimum of 6dB Bandwidth Measurement is 0.5MHz.

4.5.2 Test Setup



4.5.3 TEST INSTRUMENTS

Refer to section 4.3.3 to get information of above instrument.

4.5.4 TEST PROCEDURE

MEASUREMENT PROCEDURE REF

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

4.5.5 DEVIATION FROM TEST STANDARD

No deviation.

4.5.6 EUT OPERATING CONDITION

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



4.5.7 TEST RESULTS

6dB BANDWIDTH For 5725-5850MHz

802.11a

| Channel Number | Freq. (MHz) | 6dB DOWN BANDWIDTH (MHz) | PASS /FAIL |
|-------------------|----------------|-----------------------------|------------|
| 149 | 5745 | 16.35 | PASS |
| 157 | 5785 | 16.35 | PASS |
| 165 | 5825 | 16.37 | PASS |

802.11n (20M)

| Channel Number | Freq. (MHz) | 6dB DOWN BANDWIDTH (MHz) | PASS /FAIL |
|-------------------|----------------|-----------------------------|------------|
| 149 | 5745 | 16.93 | PASS |
| 157 | 5785 | 17.01 | PASS |
| 165 | 5825 | 17.03 | PASS |

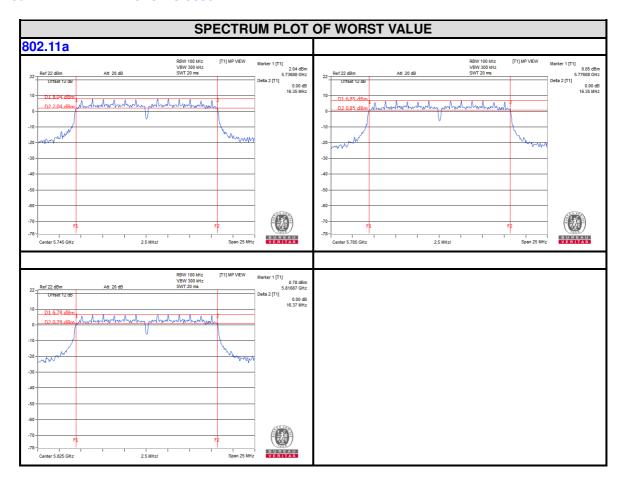
802.11n (40M)

| Channel Number | Freq. (MHz) | 6dB DOWN BANDWIDTH (MHz) | PASS /FAIL |
|-------------------|----------------|-----------------------------|------------|
| 151 | 5755 | 35.26 | PASS |
| 159 | 5795 | 35.22 | PASS |

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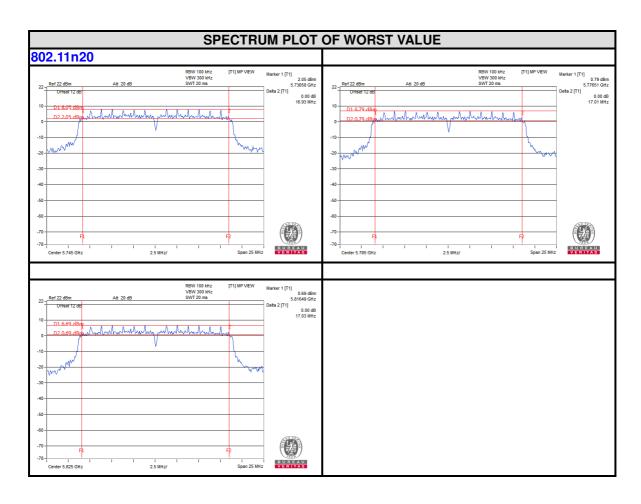


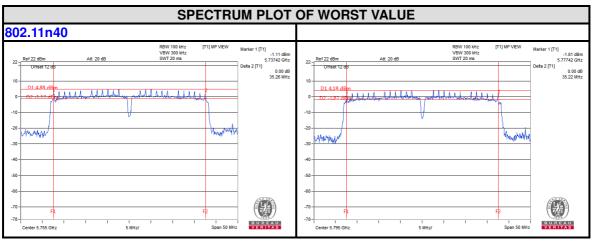
6dB BANDWIDTH For 5725-5850MHz



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5 PHOTOGRAPHS OF THE TEST CONFIGURATION

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

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6 APPENDIX A – MODIFICATIONS RECORDERS FOR ENGINEERING CHANGES TO THE EUT BY THE LAB

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

---END---

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