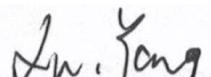


TEST REPORT

For WiFi-2.4GHz Band

| | | | |
|--------------------------------|---|----------------------|---|
| Report No. | CHTW24090006 | Report Verification: |  |
| Project No. | SHT2407056602W | | |
| FCC ID | 2BBCY3588S | | |
| Applicant's name | Lisheng Communications Co., Ltd. | | |
| Address | 5#, ChongXiang St., Econ & Tech. Area, Quanzhou, Fujian, China. | | |
| Product Name | POC Two Way Radio / IP Two Way radio | | |
| Trade Mark | LISHENG | | |
| Model No. | Q-3588S | | |
| Listed Model(s) | 3288T | | |
| Standard | FCC CFR Title 47 Part 15 Subpart C § 15.247 | | |
| Date of receipt of test sample | Aug. 14, 2024 | | |
| Date of testing | Aug. 15, 2024- Sep. 02, 2024 | | |
| Date of issue | Sep. 03, 2024 | | |
| Result | PASS | | |

| | | |
|---|---------------------------------|---|
| Compiled by (Position+Printed name+Signature): | File administrators Caspar Chen |  |
| Supervised by (Position+Printed name+Signature): | Project Engineer Caspar Chen |  |
| Approved by (Position+Printed name+Signature): | RF Manager Xu yang |  |

| | |
|-------------------------|--|
| Testing Laboratory Name | Shenzhen Huatongwei International Inspection Co., Ltd. |
| Address | Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China |

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The test report merely correspond to the test sample.

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1. **TEST STANDARDS AND REPORT VERSION**

1.1. Test Standards

The tests were performed according to following standards:

- [FCC CFR Title 47 Part 15 Subpart C § 15.247](#): Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- [ANSI C63.10:2020](#): American National Standard for Testing Unlicensed Wireless Devices
- [KDB 558074 D01 15.247 Meas Guidance v05r02](#): Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

| Revision No. | Date of issue | Description |
|--------------|---------------|-------------|
| N/A | 2024-09-03 | Original |
| | | |
| | | |
| | | |
| | | |

2. TEST DESCRIPTION

| Report clause | Test Items | Standard Requirement | Result | Test Engineer |
|---------------|---|-------------------------|--------------------|---------------|
| 5.1 | Antenna Requirement | 15.203/15.247(c) | PASS | Xiangyu Wei |
| 5.2 | AC Conducted Emission | 15.207 | N/A | - |
| 5.3 | Peak Output Power | 15.247(b)(3) | PASS | Xiangyu Wei |
| 5.4 | Power Spectral Density | 15.247(e) | PASS | Xiangyu Wei |
| 5.5 | 6dB Bandwidth | 15.247(a)(2) | PASS | Xiangyu Wei |
| 5.6 | 99% Occupied Bandwidth | - | PASS ^{*1} | Xiangyu Wei |
| 5.7 | Duty cycle | - | PASS ^{*1} | Xiangyu Wei |
| 5.8 | Conducted Band Edge and Spurious Emission | 15.247(d)/15.205 | PASS | Xiangyu Wei |
| 5.9 | Radiated Band Edge Emission | 15.205/15.209 | PASS | Yifan Wang |
| 5.10 | Radiated Spurious Emission | 15.247(d)/15.205/15.209 | PASS | Yifan Wang |

Note:

- The measurement uncertainty is not included in the test result.
- *1: No requirement on standard, only report these test data.

3. SUMMARY

3.1. Client Information

| | |
|---------------|---|
| Applicant: | Lisheng Communications Co., Ltd. |
| Address: | 5#, ChongXiang St., Econ & Tech. Area, Quanzhou, Fujian, China. |
| Manufacturer: | Lisheng Communications Co., Ltd. |
| Address: | 5#, ChongXiang St., Econ & Tech. Area, Quanzhou, Fujian, China. |

3.2. Product Description

| Main unit information: | |
|-----------------------------|--|
| Product Name: | POC Two Way Radio / IP Two Way radio |
| Trade Mark: | LISHENG |
| Model No.: | Q-3588S |
| Listed Model(s): | 3288T |
| Power supply: | DC 3.7V from Battery |
| Hardware version: | P301_V2.0 |
| Software version: | V1.0 |
| Accessory unit information: | |
| Battery information: | LI-ION BATTERY PACK Model: 3588-BAT DC 3.7V 3800mAh 14.06Wh |
| Charger information: | Model: BC-3588 Input: 5V 1A Output: 4.2V 1A |
| Adapter information: | MODEL: TEKA-UCA20US INPUT: 100-240V~50/60Hz 0.35A MAX OUTPUT: 5.0V, 2.0A |

3.3. Radio Specification Description

| | | | |
|----------------------|---|--|---|
| Support type: | <input checked="" type="checkbox"/> 802.11b | <input checked="" type="checkbox"/> 802.11g | <input checked="" type="checkbox"/> 802.11n |
| Support bandwidth: | <input checked="" type="checkbox"/> 20MHz | <input checked="" type="checkbox"/> 40MHz | |
| Modulation: | 802.11b: 802.11g/n: | DBPSK, DQPSK, BPSK, QPSK BPSK, QPSK, 16QAM, 64QAM | |
| Operation frequency: | 802.11b/g/n(HT20): 802.11n(HT40) | 2412MHz~2462MHz 2422MHz~2452MHz | |
| Channel number: | 802.11b/g/n(HT20): 802.11n(HT40) | 11 7 | |
| Channel separation: | 5MHz | | |
| Antenna technology: | <input checked="" type="checkbox"/> SISO | <input type="checkbox"/> MIMO | |
| Antenna type: | FPC | | |
| Antenna gain: | 2.5dBi | | |

3.4. Testing Laboratory Information

| | | |
|----------------------|---|----------------------|
| Laboratory Name | Shenzhen Huatongwei International Inspection Co., Ltd. | |
| Laboratory Location | Building 7, Baiwang Idea Factory, No.1051, Songbai Road, Yangguang Community, Xili Subdistrict, Nanshan District, Shenzhen, Guangdong, China | |
| Contact information: | Phone: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn | |
| Qualifications | Type | Accreditation Number |
| | FCC Registration Number | 762235 |
| | FCC Designation Number | CN1181 |

4. TEST CONFIGURATION

4.1. Test frequency list

According to section 15.31(m), regards to the operating frequency range over 10 MHz, must select three channels which were tested. The Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, please see the below blue front.

| 802.11b/g/n(HT20) | | 802.11n(HT40) | |
|-------------------|-----------------|---------------|-----------------|
| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
| 01 | 2412 | 03 | 2422 |
| 02 | 2417 | 04 | 2427 |
| .. : | .. : | .. : | .. : |
| 06 | 2437 | 06 | 2437 |
| .. : | .. : | .. : | .. : |
| 10 | 2457 | 08 | 2447 |
| 11 | 2462 | 09 | 2452 |

4.2. Test mode

| |
|---|
| For RF test items |
| The engineering test program was provided and enabled to make EUT continuous transmit. |
| For Radiated spurious emissions |
| The engineering test program was provided and enabled to make EUT continuous transmit. The EUT in each of three orthogonal axis emissions had been tested, but only the worst case (X axis) data Recorded in the report. |

Preliminary tests were performed in different data rates, final test modes are considering the modulation and worse data rates as below table.

| Modulation | Data rate |
|---------------|-----------|
| 802.11b | 1Mbps |
| 802.11g | 6Mbps |
| 802.11n(HT20) | MCS0 |
| 802.11n(HT40) | MCS0 |

4.3. Test sample information

| Test item | HTW sample no. |
|-------------------------|--|
| RF Conducted test items | Please refer to the description in the appendix report |
| RF Radiated test items | YPHT24070566002 |
| EMI test items | - |

Note:

RF Conducted test items: Peak Output Power, Power Spectral Density, 6dB Bandwidth, 99% Occupied Bandwidth, Duty cycle, Conducted Band Edge and Spurious Emission

RF Radiated test items: Radiated Band Edge Emission, Radiated Spurious Emission

EMI test items: AC Conducted Emission

4.4. Support unit used in test configuration and system

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

| Whether support unit is used? | | | |
|--|-----------|------------|-----------|
| <input checked="" type="checkbox"/> No | | | |
| Item | Equipment | Trade Name | Model No. |
| 1 | | | |
| 2 | | | |

4.5. Testing environmental condition

| Type | Requirement | Actual |
|--------------------|--------------|----------|
| Temperature: | 15~35°C | 25°C |
| Relative Humidity: | 25~75% | 50% |
| Air Pressure: | 860~1060mbar | 1000mbar |

4.6. Statement of the measurement uncertainty

| No. | Test Items | Measurement Uncertainty |
|-----|---|--|
| 1 | AC Conducted Emission | 3.21dB |
| 2 | Peak Output Power | 1.07 |
| 3 | Power Spectral Density | 1.07 |
| 4 | 6dB Bandwidth | 0.002% |
| 5 | 99% Occupied Bandwidth | 0.002% |
| 6 | Duty cycle | - |
| 7 | Conducted Band Edge and Spurious Emission | 1.68dB |
| 8 | Radiated Band Edge Emission | 4.54dB for 30MHz-1GHz 5.10dB for above 1GHz |
| 9 | Radiated Spurious Emission | 4.54dB for 30MHz-1GHz 5.10dB for above 1GHz |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

4.7. Equipment Used during the Test

| ● RF Conducted test item | | | | | | | |
|--------------------------|----------------------------|--------------|---------------|-----------|------------|---------------------------|---------------------------|
| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ● | Signal & Spectrum Analyzer | R&S | HTWE0262 | FSW26 | 103440 | 2023/08/22 | 2024/08/21 |
| ● | Vector signal generator | | | | | 2024/08/21 | 2025/08/20 |
| ● | Test software | Tonscend | N/A | JS1120 | N/A | 2024/5/25 | 2025/5/24 |

| ● Radiated emission- 9kHz~30MHz | | | | | | | |
|---------------------------------|-----------------------|--------------------|---------------|-----------|------------|---------------------------|---------------------------|
| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ● | Semi-Anechoic Chamber | Albatross projects | HTWE0127 | SAC-3m-02 | C11121 | 2023/04/06 | 2026/04/05 |
| ● | EMI Test Receiver | R&S | HTWE0099 | ESCI 7 | 100900 | 2024/08/12 | 2025/08/11 |
| ● | Loop Antenna | R&S | HTWE0170 | HFH2-Z2 | 100020 | 2024/04/08 | 2027/04/07 |
| ● | Test Software | R&S | N/A | EMC32 | N/A | N/A | N/A |

| ● Radiated emission- 30MHz~1GHz | | | | | | | |
|---------------------------------|-------------------------|--------------------|---------------|-----------|------------|---------------------------|---------------------------|
| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ● | Semi-Anechoic Chamber | Albatross projects | HTWE0127 | SAC-3m-02 | C11121 | 2023/04/06 | 2026/04/05 |
| ● | EMI Test Receiver | R&S | HTWE0099 | ESCI 7 | 100900 | 2024/08/12 | 2025/08/11 |
| ● | Ultra-Broadband Antenna | SCHWARZBECK | HTWE0119 | VULB9163 | 546 | 2023/02/22 | 2026/02/21 |
| ● | Pre-Amplifier | SCHWARZBECK | HTWE0295 | BBV 9742 | / | 2024/5/24 | 2025/5/23 |
| ● | Test Software | R&S | N/A | EMC32 | N/A | N/A | N/A |

| ● Radiated emission- Above 1GHz | | | | | | | |
|---------------------------------|-------------------------|--------------------|---------------|------------|------------|---------------------------|---------------------------|
| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
| ● | Semi-Anechoic Chamber | Albatross projects | HTWE0122 | SAC-3m-01 | C11121 | 2023/04/17 | 2026/04/16 |
| ● | Spectrum Analyzer | R&S | HTWE0098 | FSP40 | 100597 | 2024/08/12 | 2025/08/11 |
| ● | Spectrum Analyzer | R&S | HTWE0385 | N9020A | MY54486658 | 2024/08/12 | 2025/08/11 |
| ● | Horn Antenna | SCHWARZBECK | HTWE0126 | BBHA 9120D | 1011 | 2023/02/14 | 2026/02/13 |
| ● | Pre-Amplifier | CD | HTWE0071 | PAP-0102 | 12004 | 2024/06/06 | 2025/06/05 |
| ● | Broadband Pre-amplifier | SCHWARZBECK | HTWE0551 | SCU18F | 100855 | 2024/06/06 | 2025/06/05 |
| ● | Test Software | Audix | N/A | E3 | N/A | N/A | N/A |

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

REQUIREMENT

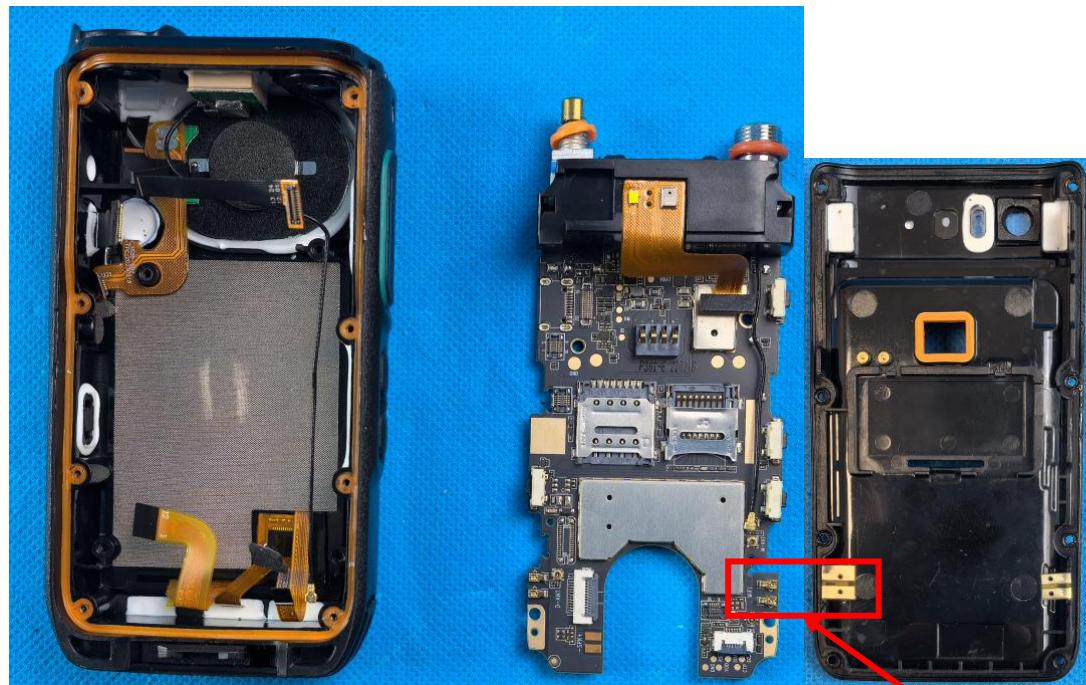
FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

TEST RESULT

Passed Not Applicable

The antenna type is a FPC antenna, Refer to the below antenna photo.



5.2. AC Conducted Emission

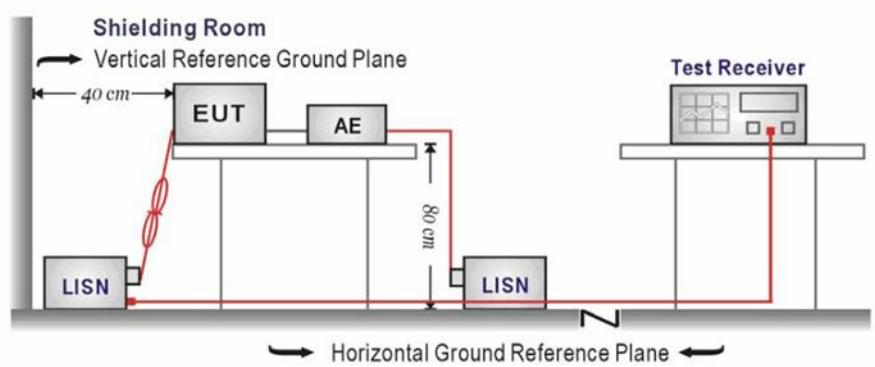
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

| Frequency range (MHz) | Limit (dBuV) | |
|-----------------------|--------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.10 requirements.
2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE

Refer to the clause 4.2

TEST RESULT

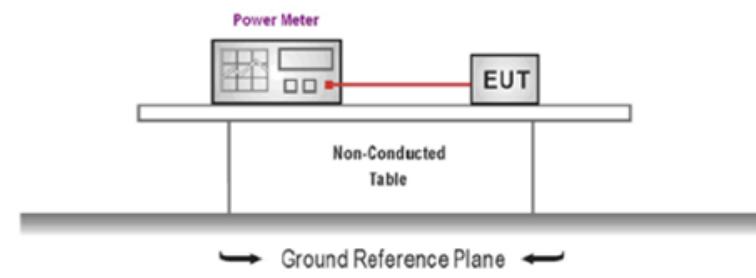
Passed Not Applicable

5.3. Peak Output Power

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (b)(3): 30dBm

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.10 and KDB 558074 D01 requirements.
2. The maximum peak conducted output power may be measured using a broadband peak RF power meter.
3. The power meter shall have a video bandwidth that is greater than or equal to the DTS bandwidth and shall utilize a fast-responding diode detector.
4. Record the measurement data.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST DATA

Refer to the appendix report

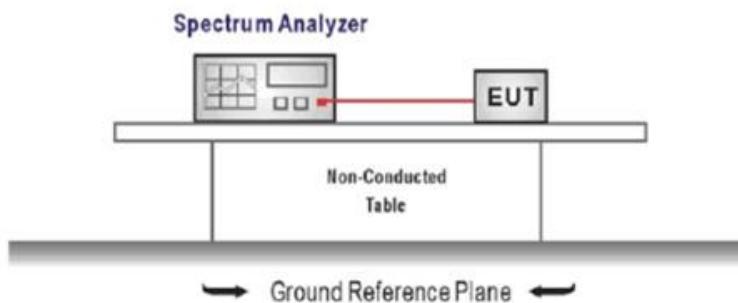
5.4. Power Spectral Density

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (e):

For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input,
2. Configure the spectrum analyzer as shown below:
Center frequency=DTS channel center frequency
Span =1.5 times the DTS bandwidth
 $RBW = 3 \text{ kHz} \leq RBW \leq 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
Sweep time = auto couple
Detector = peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
4. Use the peak marker function to determine the maximum amplitude level within the RBW.
5. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST DATA

Refer to the appendix report

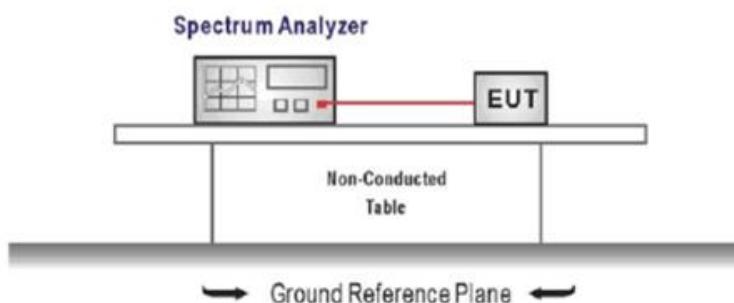
5.5. 6dB bandwidth

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (a)(2):

For digital modulation systems, the minimum 6 dB bandwidth shall be at least 500 kHz.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = DTS channel center frequency
Span=2 x DTS bandwidth
 $RBW = 100 \text{ kHz}$, $VBW \geq 3 \times RBW$
Sweep time= auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST DATA

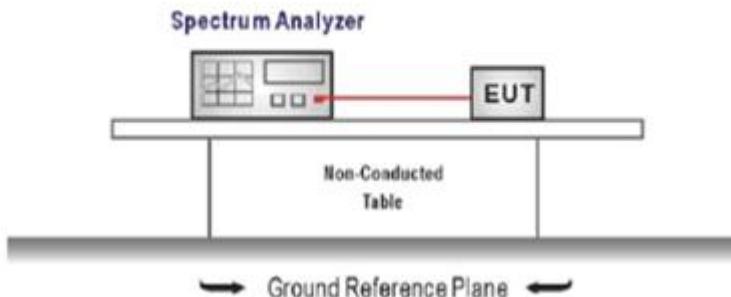
Refer to the appendix report

5.6. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).
Center Frequency = channel center frequency
Span $\geq 1.5 \times$ OBW
RBW = 1%~5%OBW
VBW $\geq 3 \times$ RBW
Sweep time = auto couple
Detector = Peak
Trace mode = max hold
3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed Not Applicable

TEST DATA

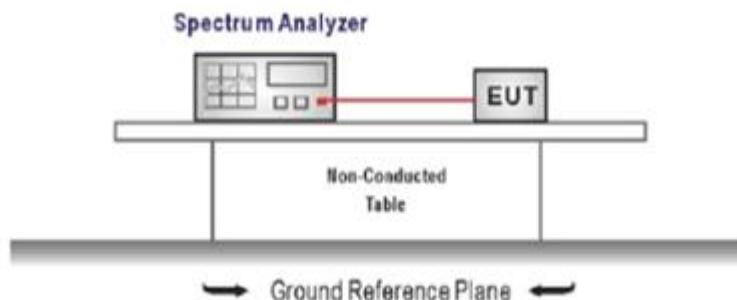
Refer to the appendix report

5.7. Duty Cycle

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

1. The transmitter output was connected to the spectrum analyzer through an attenuator, the path loss was compensated to the results for each measurement.
2. Set to the maximum power setting and enable the EUT transmit continuously
3. Use the following spectrum analyzer settings:
Span=zero span, Frequency=centered channel, RBW= 1 MHz, VBW \geq RBW
Sweep=as necessary to capture the entire dwell time,
Detector function = peak, Trigger mode
4. Measure and record the duty cycle data

TEST MODE

Refer to the clause 4.2

TEST DATA

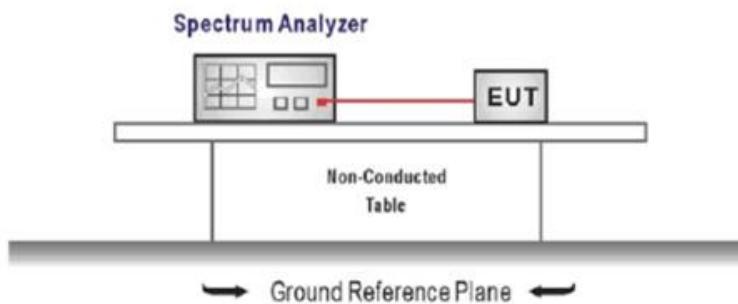
Refer to the appendix report

5.8. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

1. Connect the antenna port(s) to the spectrum analyzer input.
2. Establish a reference level by using the following procedure
Center frequency=DTS channel center frequency
The span = 1.5 times the DTS bandwidth.
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.
3. Emission level measurement
Set the center frequency and span to encompass frequency range to be measured
RBW = 100 kHz, VBW $\geq 3 \times$ RBW
Detector = peak, Sweep time = auto couple, Trace mode = max hold
Allow trace to fully stabilize
Use the peak marker function to determine the maximum amplitude level.
4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
5. Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed **Not Applicable**

TEST DATA

Refer to the appendix report

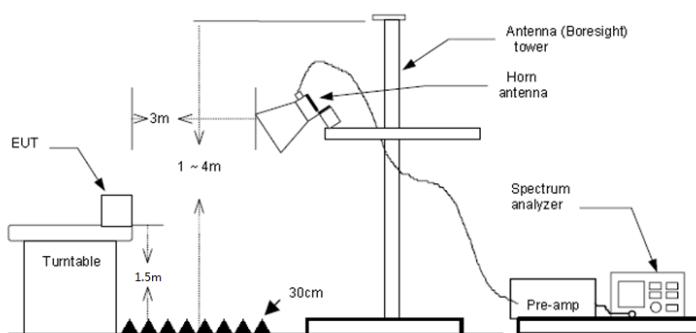
5.9. Radiated Band edge Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.247 (d):

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, Radiated Emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the Radiated Emissions limits specified in §15.209(a) (see §15.205(c)).

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement
 For average measurement:
 - VBW=10Hz, When duty cycle is no less than 98 percent
 - VBW \geq 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.7 duty cycle.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed Not Applicable

Note:

- 1) Level= Reading + Factor; Factor =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

| Type | 802.11b | | Test channel | | CH01 | | | Polarity | | Horizontal | |
|-------|------------------|-------------------|---------------|-------------|--------------|-----------|-----------------|-----------------|---------------|------------|--|
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2310.00 | 44.00 | 27.86 | 3.95 | 41.18 | 20.00 | 54.63 | 74.00 | -19.37 | Peak | |
| 2 | 2390.01 | 43.79 | 27.54 | 4.08 | 41.11 | 20.00 | 54.30 | 74.00 | -19.70 | Peak | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2310.00 | 37.35 | 27.86 | 3.95 | 41.18 | 20.00 | 47.98 | 54.00 | -6.02 | Average | |
| 2 | 2390.01 | 37.40 | 27.54 | 4.08 | 41.11 | 20.00 | 47.91 | 54.00 | -6.09 | Average | |
| Type | 802.11b | | Test channel | | CH01 | | | Polarity | | Vertical | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2310.00 | 43.17 | 27.86 | 3.95 | 41.18 | 20.00 | 53.80 | 74.00 | -20.20 | Peak | |
| 2 | 2390.01 | 44.97 | 27.54 | 4.08 | 41.11 | 20.00 | 55.48 | 74.00 | -18.52 | Peak | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2310.00 | 38.42 | 27.86 | 3.95 | 41.18 | 20.00 | 49.05 | 54.00 | -4.95 | Average | |
| 2 | 2390.01 | 37.55 | 27.54 | 4.08 | 41.11 | 20.00 | 48.06 | 54.00 | -5.94 | Average | |

| Type | 802.11b | | Test channel | | CH11 | | | Polarity | | Horizontal | |
|-------|------------------|-------------------|---------------|-------------|--------------|-----------|-----------------|-----------------|---------------|------------|--|
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2483.49 | 44.15 | 27.33 | 4.18 | 41.04 | 20.00 | 54.62 | 74.00 | -19.38 | Peak | |
| 2 | 2500.00 | 44.32 | 27.30 | 4.20 | 41.02 | 20.00 | 54.80 | 74.00 | -19.20 | Peak | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2483.49 | 37.21 | 27.33 | 4.18 | 41.04 | 20.00 | 47.68 | 54.00 | -6.32 | Average | |
| 2 | 2500.00 | 37.09 | 27.30 | 4.20 | 41.02 | 20.00 | 47.57 | 54.00 | -6.43 | Average | |
| Type | 802.11b | | Test channel | | CH11 | | | Polarity | | Vertical | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2483.49 | 43.51 | 27.33 | 4.18 | 41.04 | 20.00 | 53.98 | 74.00 | -20.02 | Peak | |
| 2 | 2500.00 | 43.76 | 27.30 | 4.20 | 41.02 | 20.00 | 54.24 | 74.00 | -19.76 | Peak | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2483.49 | 37.25 | 27.33 | 4.18 | 41.04 | 20.00 | 47.72 | 54.00 | -6.28 | Average | |
| 2 | 2500.00 | 37.07 | 27.30 | 4.20 | 41.02 | 20.00 | 47.55 | 54.00 | -6.45 | Average | |

| Type | 802.11g | | Test channel | | CH01 | | | Polarity | | Horizontal | |
|-------|------------------|-------------------|---------------|-------------|--------------|-----------|-----------------|-----------------|---------------|------------|--|
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2310.00 | 43.74 | 27.86 | 3.95 | 41.18 | 20.00 | 54.37 | 74.00 | -19.63 | Peak | |
| 2 | 2390.01 | 45.05 | 27.54 | 4.08 | 41.11 | 20.00 | 55.56 | 74.00 | -18.44 | Peak | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2310.00 | 33.29 | 27.86 | 3.95 | 41.18 | 20.00 | 43.92 | 54.00 | -10.08 | Average | |
| 2 | 2390.01 | 33.42 | 27.54 | 4.08 | 41.11 | 20.00 | 43.93 | 54.00 | -10.07 | Average | |
| Type | 802.11g | | Test channel | | CH01 | | | Polarity | | Vertical | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2310.00 | 44.04 | 27.86 | 3.95 | 41.18 | 20.00 | 54.67 | 74.00 | -19.33 | Peak | |
| 2 | 2390.01 | 44.78 | 27.54 | 4.08 | 41.11 | 20.00 | 55.29 | 74.00 | -18.71 | Peak | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2310.00 | 33.23 | 27.86 | 3.95 | 41.18 | 20.00 | 43.86 | 54.00 | -10.14 | Average | |
| 2 | 2390.01 | 33.76 | 27.54 | 4.08 | 41.11 | 20.00 | 44.27 | 54.00 | -9.73 | Average | |
| Type | 802.11g | | Test channel | | CH11 | | | Polarity | | Horizontal | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2483.49 | 44.69 | 27.33 | 4.18 | 41.04 | 20.00 | 55.16 | 74.00 | -18.84 | Peak | |
| 2 | 2500.00 | 44.31 | 27.30 | 4.20 | 41.02 | 20.00 | 54.79 | 74.00 | -19.21 | Peak | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2483.49 | 33.25 | 27.33 | 4.18 | 41.04 | 20.00 | 43.72 | 54.00 | -10.28 | Average | |
| 2 | 2500.00 | 33.27 | 27.30 | 4.20 | 41.02 | 20.00 | 43.75 | 54.00 | -10.25 | Average | |
| Type | 802.11g | | Test channel | | CH11 | | | Polarity | | Vertical | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2483.49 | 43.80 | 27.33 | 4.18 | 41.04 | 20.00 | 54.27 | 74.00 | -19.73 | Peak | |
| 2 | 2500.00 | 43.86 | 27.30 | 4.20 | 41.02 | 20.00 | 54.34 | 74.00 | -19.66 | Peak | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2483.49 | 33.09 | 27.33 | 4.18 | 41.04 | 20.00 | 43.56 | 54.00 | -10.44 | Average | |
| 2 | 2500.00 | 33.24 | 27.30 | 4.20 | 41.02 | 20.00 | 43.72 | 54.00 | -10.28 | Average | |

| Type | 802.11n(HT20) | | Test channel | | CH01 | | | Polarity | | Horizontal | |
|------|---------------|---------|--------------|-------|--------|-------|--------|----------|--------|------------|--|
| Mark | Frequency | Reading | Antenna | Cable | Preamp | Aux | Level | Limit | Over | Remark | |
| | MHz | dBuV/m | dB | dB | dB | dB | dBuV/m | dBuV/m | limit | | |
| 1 | 2310.00 | 44.30 | 27.86 | 3.95 | 41.18 | 20.00 | 54.93 | 74.00 | -19.07 | Peak | |
| 2 | 2390.01 | 47.90 | 27.54 | 4.08 | 41.11 | 20.00 | 58.41 | 74.00 | -15.59 | Peak | |
| Mark | Frequency | Reading | Antenna | Cable | Preamp | Aux | Level | Limit | Over | Remark | |
| | MHz | dBuV/m | dB | dB | dB | dB | dBuV/m | dBuV/m | limit | | |
| 1 | 2310.00 | 33.18 | 27.86 | 3.95 | 41.18 | 20.00 | 43.81 | 54.00 | -10.19 | Average | |
| 2 | 2390.01 | 34.65 | 27.54 | 4.08 | 41.11 | 20.00 | 45.16 | 54.00 | -8.84 | Average | |
| Type | 802.11n(HT20) | | Test channel | | CH01 | | | Polarity | | Vertical | |
| Mark | Frequency | Reading | Antenna | Cable | Preamp | Aux | Level | Limit | Over | Remark | |
| | MHz | dBuV/m | dB | dB | dB | dB | dBuV/m | dBuV/m | limit | | |
| 1 | 2310.00 | 44.45 | 27.86 | 3.95 | 41.18 | 20.00 | 55.08 | 74.00 | -18.92 | Peak | |
| 2 | 2390.01 | 48.97 | 27.54 | 4.08 | 41.11 | 20.00 | 59.48 | 74.00 | -14.52 | Peak | |
| Mark | Frequency | Reading | Antenna | Cable | Preamp | Aux | Level | Limit | Over | Remark | |
| | MHz | dBuV/m | dB | dB | dB | dB | dBuV/m | dBuV/m | limit | | |
| 1 | 2310.00 | 33.18 | 27.86 | 3.95 | 41.18 | 20.00 | 43.81 | 54.00 | -10.19 | Average | |
| 2 | 2390.01 | 33.61 | 27.54 | 4.08 | 41.11 | 20.00 | 44.12 | 54.00 | -9.88 | Average | |

| Type | 802.11n(HT20) | | Test channel | | CH11 | | | Polarity | | Horizontal | |
|------|---------------|---------|--------------|-------|--------|-------|--------|----------|--------|------------|--|
| Mark | Frequency | Reading | Antenna | Cable | Preamp | Aux | Level | Limit | Over | Remark | |
| | MHz | dBuV/m | dB | dB | dB | dB | dBuV/m | dBuV/m | limit | | |
| 1 | 2483.49 | 43.58 | 27.33 | 4.18 | 41.04 | 20.00 | 54.05 | 74.00 | -19.95 | Peak | |
| 2 | 2500.00 | 44.28 | 27.30 | 4.20 | 41.02 | 20.00 | 54.76 | 74.00 | -19.24 | Peak | |
| Mark | Frequency | Reading | Antenna | Cable | Preamp | Aux | Level | Limit | Over | Remark | |
| | MHz | dBuV/m | dB | dB | dB | dB | dBuV/m | dBuV/m | limit | | |
| 1 | 2483.49 | 33.25 | 27.33 | 4.18 | 41.04 | 20.00 | 43.72 | 54.00 | -10.28 | Average | |
| 2 | 2500.00 | 33.24 | 27.30 | 4.20 | 41.02 | 20.00 | 43.72 | 54.00 | -10.28 | Average | |
| Type | 802.11n(HT20) | | Test channel | | CH11 | | | Polarity | | Vertical | |
| Mark | Frequency | Reading | Antenna | Cable | Preamp | Aux | Level | Limit | Over | Remark | |
| | MHz | dBuV/m | dB | dB | dB | dB | dBuV/m | dBuV/m | limit | | |
| 1 | 2483.49 | 43.91 | 27.33 | 4.18 | 41.04 | 20.00 | 54.38 | 74.00 | -19.62 | Peak | |
| 2 | 2500.00 | 43.61 | 27.30 | 4.20 | 41.02 | 20.00 | 54.09 | 74.00 | -19.91 | Peak | |
| Mark | Frequency | Reading | Antenna | Cable | Preamp | Aux | Level | Limit | Over | Remark | |
| | MHz | dBuV/m | dB | dB | dB | dB | dBuV/m | dBuV/m | limit | | |
| 1 | 2483.49 | 33.14 | 27.33 | 4.18 | 41.04 | 20.00 | 43.61 | 54.00 | -10.39 | Average | |
| 2 | 2500.00 | 33.12 | 27.30 | 4.20 | 41.02 | 20.00 | 43.60 | 54.00 | -10.40 | Average | |

| Type | 802.11n(HT40) | | Test channel | | CH03 | | | Polarity | | Horizontal | |
|-------|------------------|-------------------|---------------|-------------|--------------|-----------|-----------------|-----------------|---------------|------------|--|
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2310.00 | 44.58 | 27.86 | 3.95 | 41.18 | 20.00 | 55.21 | 74.00 | -18.79 | Peak | |
| 2 | 2389.99 | 53.82 | 27.54 | 4.08 | 41.11 | 20.00 | 64.33 | 74.00 | -9.67 | Peak | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2310.00 | 33.65 | 27.86 | 3.95 | 41.18 | 20.00 | 44.28 | 54.00 | -9.72 | Average | |
| 2 | 2389.99 | 35.72 | 27.54 | 4.08 | 41.11 | 20.00 | 46.23 | 54.00 | -7.77 | Average | |
| Type | 802.11n(HT40) | | Test channel | | CH03 | | | Polarity | | Vertical | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2310.00 | 43.07 | 27.86 | 3.95 | 41.18 | 20.00 | 53.70 | 74.00 | -20.30 | Peak | |
| 2 | 2389.99 | 50.28 | 27.54 | 4.08 | 41.11 | 20.00 | 60.79 | 74.00 | -13.21 | Peak | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2310.00 | 33.70 | 27.86 | 3.95 | 41.18 | 20.00 | 44.33 | 54.00 | -9.67 | Average | |
| 2 | 2389.99 | 34.97 | 27.54 | 4.08 | 41.11 | 20.00 | 45.48 | 54.00 | -8.52 | Average | |

| Type | 802.11n(HT40) | | Test channel | | CH09 | | | Polarity | | Horizontal | |
|-------|------------------|-------------------|---------------|-------------|--------------|-----------|-----------------|-----------------|---------------|------------|--|
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2483.50 | 46.40 | 27.33 | 4.18 | 41.04 | 20.00 | 56.87 | 74.00 | -17.13 | Peak | |
| 2 | 2500.00 | 44.13 | 27.30 | 4.20 | 41.02 | 20.00 | 54.61 | 74.00 | -19.39 | Peak | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2483.50 | 33.89 | 27.33 | 4.18 | 41.04 | 20.00 | 44.36 | 54.00 | -9.64 | Average | |
| 2 | 2500.00 | 33.56 | 27.30 | 4.20 | 41.02 | 20.00 | 44.04 | 54.00 | -9.96 | Average | |
| Type | 802.11n(HT40) | | Test channel | | CH09 | | | Polarity | | Vertical | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2483.50 | 44.48 | 27.33 | 4.18 | 41.04 | 20.00 | 54.95 | 74.00 | -19.05 | Peak | |
| 2 | 2500.00 | 44.15 | 27.30 | 4.20 | 41.02 | 20.00 | 54.63 | 74.00 | -19.37 | Peak | |
| <hr/> | | | | | | | | | | | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Aux dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 2483.50 | 33.41 | 27.33 | 4.18 | 41.04 | 20.00 | 43.88 | 54.00 | -10.12 | Average | |
| 2 | 2500.00 | 33.80 | 27.30 | 4.20 | 41.02 | 20.00 | 44.28 | 54.00 | -9.72 | Average | |

5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

| Frequency | Limit (dBuV/m) | Value |
|----------------------|-------------------|------------|
| 0.009 MHz ~0.49 MHz | 2400/F(kHz) @300m | Quasi-peak |
| 0.49 MHz ~ 1.705 MHz | 24000/F(kHz) @30m | Quasi-peak |
| 1.705 MHz ~30 MHz | 30 @30m | Quasi-peak |

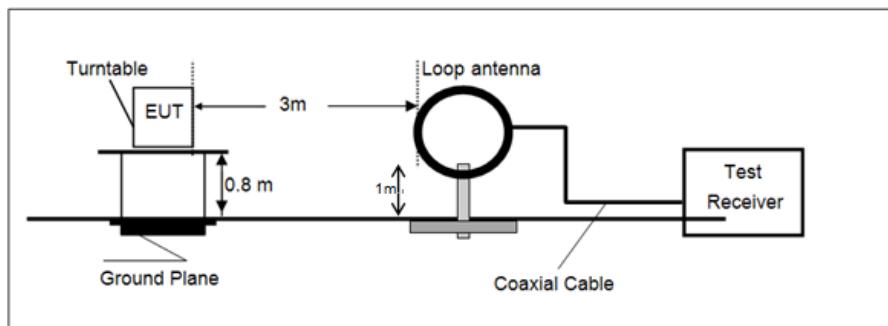
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

Limit dBuV/m @3m = Limit dBuV/m @30m +40*log(30/3)= Limit dBuV/m @30m + 40.

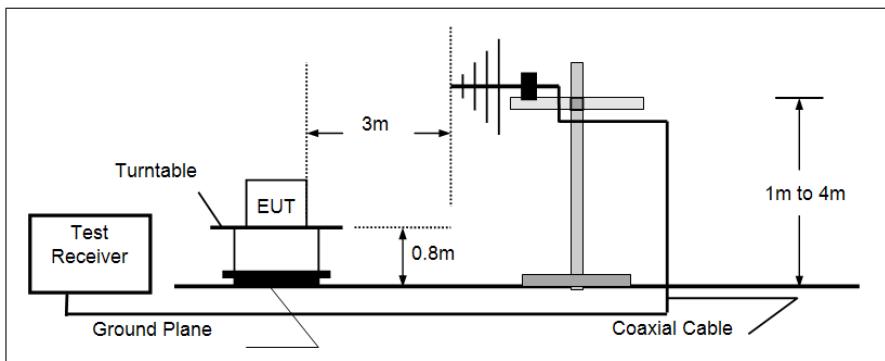
| Frequency | Limit (dBuV/m @3m) | Value |
|---------------|--------------------|------------|
| 30MHz~88MHz | 40.00 | Quasi-peak |
| 88MHz~216MHz | 43.50 | Quasi-peak |
| 216MHz~960MHz | 46.00 | Quasi-peak |
| 960MHz~1GHz | 54.00 | Quasi-peak |
| Above 1GHz | 54.00 | Average |
| | 74.00 | Peak |

TEST CONFIGURATION

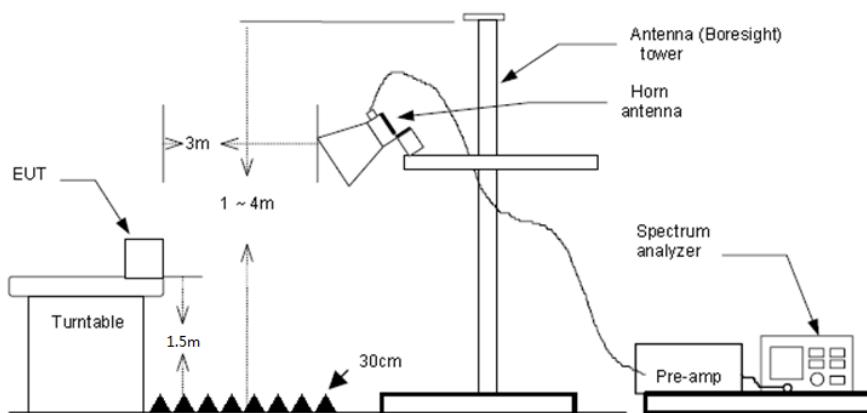
- 9 kHz ~ 30 MHz



- 30 MHz ~ 1 GHz



- Above 1 GHz



TEST PROCEDURE

1. The EUT was setup and tested according to ANSI C63.10 .
2. The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
5. Set to the maximum power setting and enable the EUT transmit continuously.
6. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:
RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement
For average measurement:
 - VBW=10Hz, When duty cycle is no less than 98 percent
 - $VBW \geq 1/T$, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clause 5.7 duty cycle.

TEST MODE

Refer to the clause 4.2

TEST RESULT

Passed Not Applicable

Note:

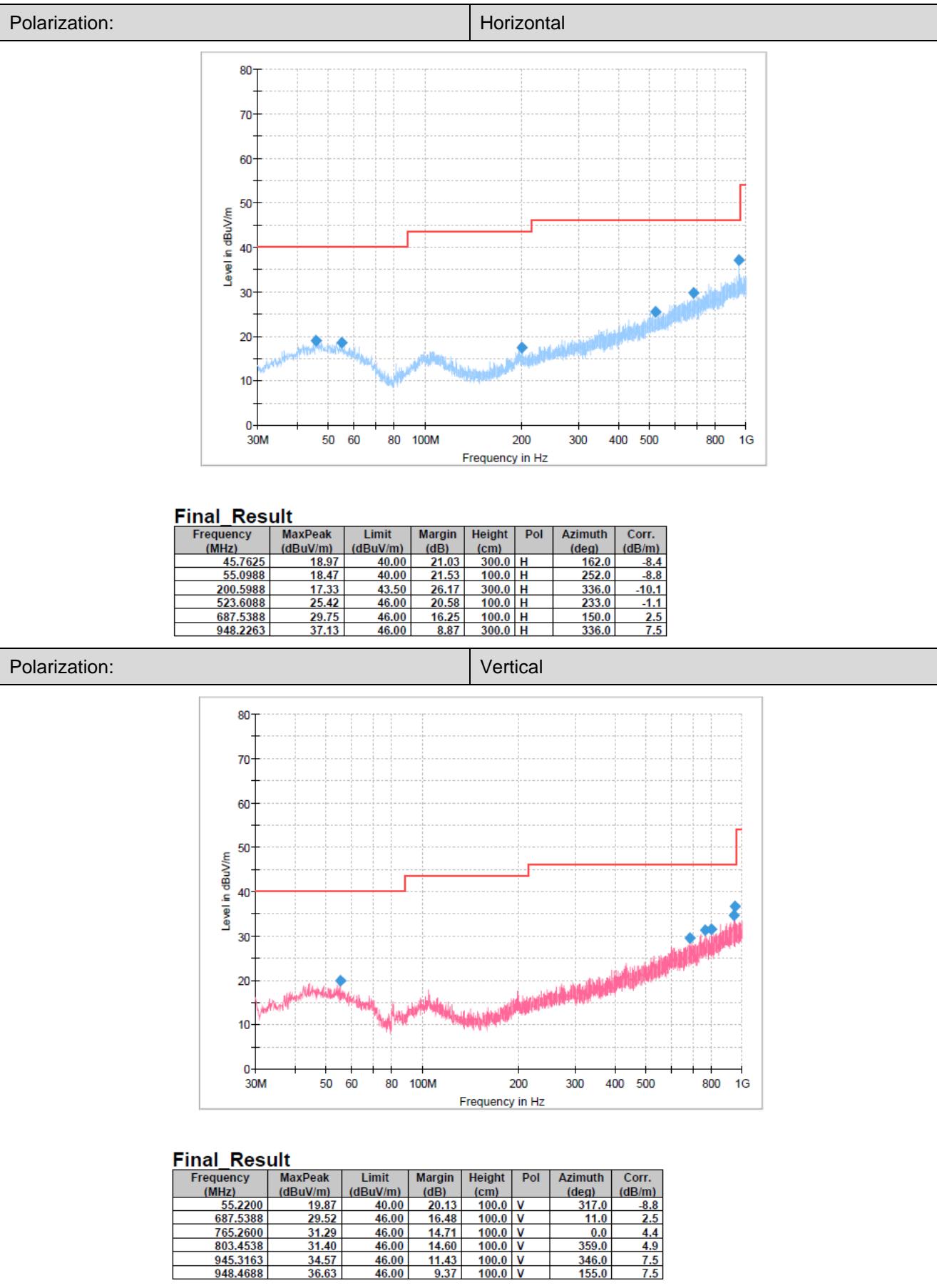
- 1) Level= Reading + Factor/Transd; Factor/Transd =Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

For 9 kHz ~ 30 MHz

The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

For 30 MHz ~ 1000 MHz

Have pre-scan all test channel, found CH06 of 802.11B which it was worst case, so only show the worst case's data on this report.



For 1 GHz ~ 25 GHz

| Type | 802.11b | | Test channel | | CH01 | | | Polarity | | Horizontal |
|------|------------------|-------------------|---------------|-------------|--------------|-----------------|-----------------|---------------|--------|------------|
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 4821.76 | 41.59 | 31.26 | 5.89 | 40.28 | 38.46 | 74.00 | -35.54 | Peak | |
| 2 | 6974.36 | 41.42 | 35.00 | 7.38 | 39.46 | 44.34 | 74.00 | -29.66 | Peak | |
| 3 | 8571.38 | 40.82 | 37.39 | 8.26 | 40.17 | 46.30 | 74.00 | -27.70 | Peak | |
| 4 | 10833.22 | 41.91 | 40.37 | 8.87 | 40.53 | 50.62 | 74.00 | -23.38 | Peak | |
| Type | 802.11b | | Test channel | | CH01 | | | Polarity | | Vertical |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 3854.08 | 42.52 | 29.61 | 5.29 | 40.51 | 36.91 | 74.00 | -37.09 | Peak | |
| 2 | 4821.76 | 48.12 | 31.26 | 5.89 | 40.28 | 44.99 | 74.00 | -29.01 | Peak | |
| 3 | 7961.43 | 40.66 | 36.92 | 8.03 | 39.95 | 45.66 | 74.00 | -28.34 | Peak | |
| 4 | 9809.40 | 41.06 | 39.32 | 8.60 | 39.86 | 49.12 | 74.00 | -24.88 | Peak | |
| Type | 802.11b | | Test channel | | CH06 | | | Polarity | | Horizontal |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 3834.51 | 46.03 | 29.54 | 5.28 | 40.54 | 40.31 | 74.00 | -33.69 | Peak | |
| 2 | 6063.19 | 41.63 | 32.50 | 6.69 | 39.21 | 41.61 | 74.00 | -32.39 | Peak | |
| 3 | 8002.06 | 42.65 | 37.00 | 8.04 | 39.94 | 47.75 | 74.00 | -26.25 | Peak | |
| 4 | 11663.19 | 42.32 | 40.05 | 9.40 | 40.43 | 51.34 | 74.00 | -22.66 | Peak | |
| Type | 802.11b | | Test channel | | CH06 | | | Polarity | | Vertical |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 5125.52 | 42.97 | 31.95 | 6.10 | 40.05 | 40.97 | 74.00 | -33.03 | Peak | |
| 2 | 6396.13 | 41.46 | 33.38 | 6.91 | 39.20 | 42.55 | 74.00 | -31.45 | Peak | |
| 3 | 8002.06 | 42.49 | 37.00 | 8.04 | 39.94 | 47.59 | 74.00 | -26.41 | Peak | |
| 4 | 11457.21 | 40.88 | 40.46 | 9.17 | 40.24 | 50.27 | 74.00 | -23.73 | Peak | |
| Type | 802.11b | | Test channel | | CH11 | | | Polarity | | Horizontal |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 5112.49 | 42.67 | 31.97 | 6.09 | 40.07 | 40.66 | 74.00 | -33.34 | Peak | |
| 2 | 6187.93 | 43.10 | 32.68 | 6.76 | 39.20 | 43.34 | 74.00 | -30.66 | Peak | |
| 3 | 7981.72 | 42.27 | 36.96 | 8.03 | 39.94 | 47.32 | 74.00 | -26.68 | Peak | |
| 4 | 10944.09 | 41.64 | 40.50 | 8.82 | 40.64 | 50.32 | 74.00 | -23.68 | Peak | |
| Type | 802.11b | | Test channel | | CH11 | | | Polarity | | Vertical |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 5112.49 | 42.30 | 31.97 | 6.09 | 40.07 | 40.29 | 74.00 | -33.71 | Peak | |
| 2 | 6577.75 | 41.86 | 34.16 | 7.22 | 39.26 | 43.98 | 74.00 | -30.02 | Peak | |
| 3 | 9275.16 | 41.20 | 39.15 | 8.51 | 39.89 | 48.97 | 74.00 | -25.03 | Peak | |
| 4 | 11428.08 | 41.18 | 40.43 | 9.14 | 40.27 | 50.48 | 74.00 | -23.52 | Peak | |

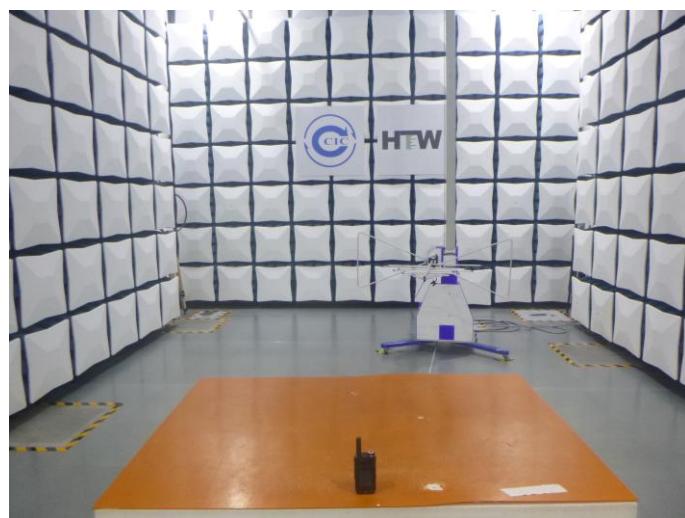
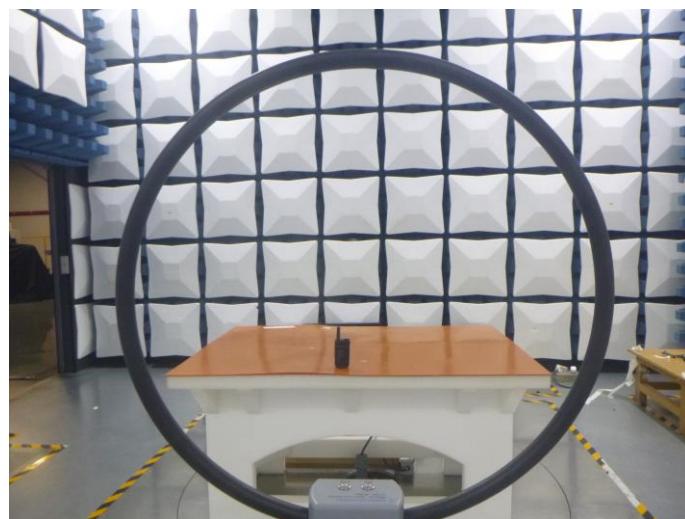
| Type | 802.11g | | Test channel | | CH01 | | Polarity | | Horizontal | |
|------|------------------|-------------------|---------------|-------------|--------------|-----------------|-----------------|---------------|------------|--|
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 5125.52 | 42.74 | 31.95 | 6.10 | 40.05 | 40.74 | 74.00 | -33.26 | Peak | |
| 2 | 7527.83 | 41.47 | 36.14 | 7.81 | 39.94 | 45.48 | 74.00 | -28.52 | Peak | |
| 3 | 9228.06 | 41.48 | 38.97 | 8.49 | 39.91 | 49.03 | 74.00 | -24.97 | Peak | |
| 4 | 11457.21 | 40.96 | 40.46 | 9.17 | 40.24 | 50.35 | 74.00 | -23.65 | Peak | |
| Type | 802.11g | | Test channel | | CH01 | | Polarity | | Vertical | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 4256.33 | 43.92 | 30.03 | 5.79 | 40.47 | 39.27 | 74.00 | -34.73 | Peak | |
| 2 | 6561.03 | 42.18 | 34.12 | 7.19 | 39.26 | 44.23 | 74.00 | -29.77 | Peak | |
| 3 | 8506.17 | 42.30 | 37.21 | 8.24 | 40.20 | 47.55 | 74.00 | -26.45 | Peak | |
| 4 | 10916.26 | 41.59 | 40.50 | 8.83 | 40.62 | 50.30 | 74.00 | -23.70 | Peak | |
| Type | 802.11g | | Test channel | | CH06 | | Polarity | | Horizontal | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 4004.08 | 42.61 | 29.81 | 5.44 | 40.31 | 37.55 | 74.00 | -36.45 | Peak | |
| 2 | 5674.90 | 41.17 | 31.70 | 6.59 | 39.47 | 39.99 | 74.00 | -34.01 | Peak | |
| 3 | 8527.85 | 41.11 | 37.26 | 8.25 | 40.19 | 46.43 | 74.00 | -27.57 | Peak | |
| 4 | 11457.21 | 38.98 | 40.46 | 9.17 | 40.24 | 48.37 | 74.00 | -25.63 | Peak | |
| Type | 802.11g | | Test channel | | CH06 | | Polarity | | Vertical | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 3854.08 | 43.86 | 29.61 | 5.29 | 40.51 | 38.25 | 74.00 | -35.75 | Peak | |
| 2 | 5718.40 | 40.90 | 31.84 | 6.64 | 39.41 | 39.97 | 74.00 | -34.03 | Peak | |
| 3 | 8145.93 | 41.22 | 36.82 | 8.06 | 39.90 | 46.20 | 74.00 | -27.80 | Peak | |
| 4 | 10971.98 | 40.19 | 40.50 | 8.81 | 40.67 | 48.83 | 74.00 | -25.17 | Peak | |
| Type | 802.11g | | Test channel | | CH11 | | Polarity | | Horizontal | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 4641.12 | 44.85 | 30.98 | 5.87 | 40.35 | 41.35 | 74.00 | -32.65 | Peak | |
| 2 | 7961.43 | 43.42 | 36.92 | 8.03 | 39.95 | 48.42 | 74.00 | -25.58 | Peak | |
| 3 | 9251.58 | 40.90 | 39.10 | 8.50 | 39.90 | 48.60 | 74.00 | -25.40 | Peak | |
| 4 | 11457.21 | 40.93 | 40.46 | 9.17 | 40.24 | 50.32 | 74.00 | -23.68 | Peak | |
| Type | 802.11g | | Test channel | | CH11 | | Polarity | | Vertical | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 5099.49 | 43.03 | 32.00 | 6.08 | 40.08 | 41.03 | 74.00 | -32.97 | Peak | |
| 2 | 6577.75 | 41.86 | 34.16 | 7.22 | 39.26 | 43.98 | 74.00 | -30.02 | Peak | |
| 3 | 9251.58 | 41.04 | 39.10 | 8.50 | 39.90 | 48.74 | 74.00 | -25.26 | Peak | |
| 4 | 10916.26 | 41.52 | 40.50 | 8.83 | 40.62 | 50.23 | 74.00 | -23.77 | Peak | |

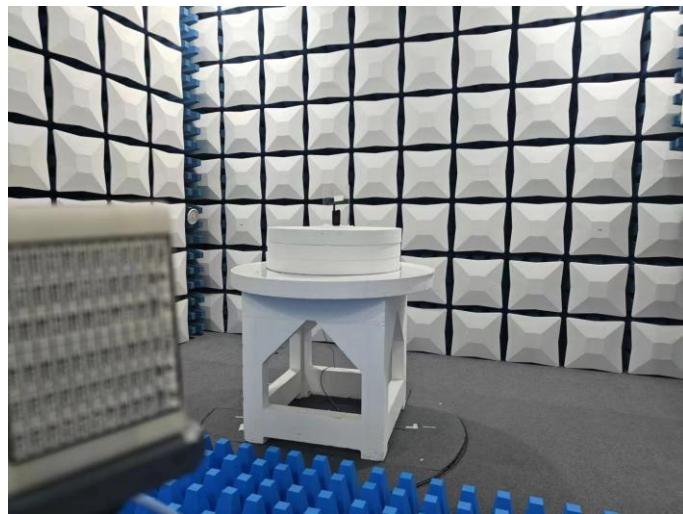
| Type | 802.11n(HT20) | | Test channel | | CH01 | | | Polarity | | Horizontal |
|------|------------------|-------------------|---------------|-------------|--------------|-----------------|-----------------|---------------|--------|------------|
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 4433.26 | 43.26 | 30.47 | 5.88 | 40.50 | 39.11 | 74.00 | -34.89 | Peak | |
| 2 | 6001.77 | 41.90 | 32.40 | 6.70 | 39.23 | 41.77 | 74.00 | -32.23 | Peak | |
| 3 | 9322.50 | 41.31 | 39.20 | 8.53 | 39.87 | 49.17 | 74.00 | -24.83 | Peak | |
| 4 | 11486.41 | 40.45 | 40.49 | 9.19 | 40.21 | 49.92 | 74.00 | -24.08 | Peak | |
| Type | 802.11n(HT20) | | Test channel | | CH01 | | | Polarity | | Vertical |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 4547.56 | 44.47 | 30.70 | 5.87 | 40.40 | 40.64 | 74.00 | -33.36 | Peak | |
| 2 | 6544.35 | 41.24 | 34.08 | 7.16 | 39.25 | 43.23 | 74.00 | -30.77 | Peak | |
| 3 | 9228.06 | 41.13 | 38.97 | 8.49 | 39.91 | 48.68 | 74.00 | -25.32 | Peak | |
| 4 | 11515.68 | 40.83 | 40.47 | 9.22 | 40.22 | 50.30 | 74.00 | -23.70 | Peak | |
| Type | 802.11n(HT20) | | Test channel | | CH06 | | | Polarity | | Horizontal |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 3943.39 | 42.70 | 29.70 | 5.36 | 40.38 | 37.38 | 74.00 | -36.62 | Peak | |
| 2 | 4676.70 | 42.64 | 31.05 | 5.86 | 40.34 | 39.21 | 74.00 | -34.79 | Peak | |
| 3 | 8002.06 | 40.36 | 37.00 | 8.04 | 39.94 | 45.46 | 74.00 | -28.54 | Peak | |
| 4 | 11457.21 | 38.94 | 40.46 | 9.17 | 40.24 | 48.33 | 74.00 | -25.67 | Peak | |
| Type | 802.11n(HT20) | | Test channel | | CH06 | | | Polarity | | Vertical |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 4536.00 | 42.01 | 30.67 | 5.87 | 40.40 | 38.15 | 74.00 | -35.85 | Peak | |
| 2 | 6544.35 | 41.36 | 34.08 | 7.16 | 39.25 | 43.35 | 74.00 | -30.65 | Peak | |
| 3 | 8083.96 | 40.61 | 37.00 | 8.05 | 39.92 | 45.74 | 74.00 | -28.26 | Peak | |
| 4 | 11399.03 | 40.45 | 40.40 | 9.12 | 40.30 | 49.67 | 74.00 | -24.33 | Peak | |
| Type | 802.11n(HT20) | | Test channel | | CH11 | | | Polarity | | Horizontal |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 3854.08 | 43.41 | 29.61 | 5.29 | 40.51 | 37.80 | 74.00 | -36.20 | Peak | |
| 2 | 6781.78 | 40.28 | 34.16 | 7.42 | 39.35 | 42.51 | 74.00 | -31.49 | Peak | |
| 3 | 8002.06 | 40.09 | 37.00 | 8.04 | 39.94 | 45.19 | 74.00 | -28.81 | Peak | |
| 4 | 11428.08 | 39.62 | 40.43 | 9.14 | 40.27 | 48.92 | 74.00 | -25.08 | Peak | |
| Type | 802.11n(HT20) | | Test channel | | CH11 | | | Polarity | | Vertical |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 3579.82 | 42.77 | 29.26 | 5.19 | 40.96 | 36.26 | 74.00 | -37.74 | Peak | |
| 2 | 4605.81 | 41.35 | 30.91 | 5.87 | 40.37 | 37.76 | 74.00 | -36.24 | Peak | |
| 3 | 6903.71 | 40.23 | 34.53 | 7.39 | 39.42 | 42.73 | 74.00 | -31.27 | Peak | |
| 4 | 10971.98 | 39.63 | 40.50 | 8.81 | 40.67 | 48.27 | 74.00 | -25.73 | Peak | |

| Type | 802.11n(HT40) | | Test channel | | CH03 | | Polarity | | Horizontal | |
|------|------------------|-------------------|---------------|-------------|--------------|-----------------|-----------------|---------------|------------|--|
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 5112.49 | 41.49 | 31.97 | 6.09 | 40.07 | 39.48 | 74.00 | -34.52 | Peak | |
| 2 | 6628.18 | 40.60 | 34.20 | 7.31 | 39.28 | 42.83 | 74.00 | -31.17 | Peak | |
| 3 | 7921.00 | 40.74 | 36.73 | 8.02 | 39.96 | 45.53 | 74.00 | -28.47 | Peak | |
| 4 | 11112.52 | 41.14 | 40.17 | 8.89 | 40.59 | 49.61 | 74.00 | -24.39 | Peak | |
| Type | 802.11n(HT40) | | Test channel | | CH03 | | Polarity | | Vertical | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 4797.27 | 42.02 | 31.29 | 5.88 | 40.29 | 38.90 | 74.00 | -35.10 | Peak | |
| 2 | 6577.75 | 40.20 | 34.16 | 7.22 | 39.26 | 42.32 | 74.00 | -31.68 | Peak | |
| 3 | 9157.86 | 39.83 | 38.55 | 8.46 | 39.94 | 46.90 | 74.00 | -27.10 | Peak | |
| 4 | 11341.14 | 39.49 | 40.22 | 9.07 | 40.36 | 48.42 | 74.00 | -25.58 | Peak | |
| Type | 802.11n(HT40) | | Test channel | | CH06 | | Polarity | | Horizontal | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 3923.37 | 43.84 | 29.70 | 5.33 | 40.40 | 38.47 | 74.00 | -35.53 | Peak | |
| 2 | 5776.92 | 41.86 | 31.95 | 6.70 | 39.32 | 41.19 | 74.00 | -32.81 | Peak | |
| 3 | 7961.43 | 42.09 | 36.92 | 8.03 | 39.95 | 47.09 | 74.00 | -26.91 | Peak | |
| 4 | 10427.37 | 41.33 | 39.93 | 8.94 | 40.16 | 50.04 | 74.00 | -23.96 | Peak | |
| Type | 802.11n(HT40) | | Test channel | | CH06 | | Polarity | | Vertical | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 5086.52 | 41.93 | 31.92 | 6.07 | 40.10 | 39.82 | 74.00 | -34.18 | Peak | |
| 2 | 6203.70 | 42.28 | 32.71 | 6.77 | 39.20 | 42.56 | 74.00 | -31.44 | Peak | |
| 3 | 8002.06 | 42.05 | 37.00 | 8.04 | 39.94 | 47.15 | 74.00 | -26.85 | Peak | |
| 4 | 10916.26 | 42.12 | 40.50 | 8.83 | 40.62 | 50.83 | 74.00 | -23.17 | Peak | |
| Type | 802.11n(HT40) | | Test channel | | CH09 | | Polarity | | Horizontal | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 4524.47 | 43.18 | 30.65 | 5.87 | 40.41 | 39.29 | 74.00 | -34.71 | Peak | |
| 2 | 5703.86 | 41.00 | 31.81 | 6.62 | 39.43 | 40.00 | 74.00 | -34.00 | Peak | |
| 3 | 8022.46 | 40.87 | 37.00 | 8.04 | 39.93 | 45.98 | 74.00 | -28.02 | Peak | |
| 4 | 10723.47 | 40.09 | 40.07 | 8.91 | 40.42 | 48.65 | 74.00 | -25.35 | Peak | |
| Type | 802.11n(HT40) | | Test channel | | CH09 | | Polarity | | Vertical | |
| Mark | Frequency MHz | Reading dBuV/m | Antenna dB | Cable dB | Preamp dB | Level dBuV/m | Limit dBuV/m | Over limit | Remark | |
| 1 | 4332.85 | 42.93 | 30.33 | 5.89 | 40.59 | 38.56 | 74.00 | -35.44 | Peak | |
| 2 | 5703.86 | 41.51 | 31.81 | 6.62 | 39.43 | 40.51 | 74.00 | -33.49 | Peak | |
| 3 | 7357.33 | 40.04 | 36.20 | 7.67 | 39.86 | 44.05 | 74.00 | -29.95 | Peak | |
| 4 | 10507.31 | 39.96 | 40.00 | 9.00 | 40.21 | 48.75 | 74.00 | -25.25 | Peak | |

6. TEST SETUP PHOTOS

Radiated Emission





7. EXTERNAL AND INTERNAL PHOTOS

Refer to the test report No.: CHTW24090001

8 . APPENDIX REPORT