

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China.

FCC PART 15 SUBPART C TEST REPORT

FCC PART 15.247

Compiled by

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Approved by

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Date of issue 2021.11.18

Representative Laboratory Name.: Shenzhen Most Technology Service Co., Ltd.

Nanshan, Shenzhen, Guangdong, China.

Applicant's name...... Ocean Digital Technology Ltd.

Address Flat B, 12/F., Yeung Yiu Chung (No.8) Ind. Bldg., 20 Wang Hoi

Road, Kowloon Bay, Hong Kong.

Test specification:

Standard FCC Part 15.247

TRF Originator.....: Shenzhen Most Technology Service Co., Ltd.

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Test item description: Internet Radio

Trade Mark N/A

Manufacturer Ocean Digital Technology Ltd.

Model/Type reference MA-800F

Listed Models WR-800F, MA-800, WR-800

Rating DC 9V by Adapter

Hardware version: V2.0

Result PASS

TEST REPORT

Equipment under Test : Internet Radio

Model /Type : MA-800F

Listed Models : WR-800F, MA-800, WR-800

Remark : Only different in model name and appearance

Applicant : Ocean Digital Technology Ltd.

Address : Flat B, 12/F., Yeung Yiu Chung (No.8) Ind. Bldg., 20 Wang Hoi

Road, Kowloon Bay, Hong Kong.

Manufacturer : Ocean Digital Technology Ltd.

Address : Flat B, 12/F., Yeung Yiu Chung (No.8) Ind. Bldg., 20 Wang Hoi

Road, Kowloon Bay, Hong Kong.

| Test Result: | PASS |
|--------------|------|
|--------------|------|

The test report merely corresponds to the test sample.

It is not permitted to copy extracts of these test result without the written permission of the test laboratory.

Contents

| 1 REVISION HISTORY | <u> 4</u> |
|---|-----------|
| | |
| 2 TEST STANDADDS | 5 |
| 2 TEST STANDARDS | <u>ə</u> |
| | |
| 3 SUMMARY | 6 |
| | |
| 3.1 General Remarks | 6 |
| 3.2 Product Description | _ |
| 3.3 Equipment Under Test | |
| 3.4 Short description of the Equipment under Test (EUT) | 6 |
| 3.5 EUT operation mode | |
| 3.6 Block Diagram of Test Setup | |
| 3.7 Test Item (Equipment Under Test) Description* | 7 |
| 3.8 Auxiliary Equipment (AE) Description | |
| 3.9 Related Submittal(s) / Grant (s) | |
| 3.10 Modifications | |
| | |
| 4 TEOT ENVIRONMENT | • |
| 4 TEST ENVIRONMENT | 8 |
| | |
| 4.1 Address of the test laboratory | 8 |
| 4.2 Test Facility | 8 |
| 4.3 Environmental conditions | 8 |
| 4.4 Test Description | |
| 4.5 Statement of the measurement uncertainty | |
| 4.6 Equipments Used during the Test | 10 |
| | |
| 5 TEST CONDITIONS AND RESULTS | 11 |
| TEOT CONDITIONS AND RECOEFG | |
| | |
| 5.1 AC Power Conducted Emission | |
| 5.2 Radiated Emission | |
| 5.3 Maximum Conducted Output Power | |
| 5.4 Power Spectral Density | |
| 5.5 6dB Bandwidth | |
| 5.6 Out-of-band Emissions | |
| 5.7 Antenna Requirement | 33 |
| | |
| 6 TEST SETUP PHOTOS OF THE EUT | 34 |
| | |
| 7 PHOTOS OF THE EUT | 2.5 |
| <i>៲</i> ╒пото об тпе епт | 3 3 |

Report No.: MTWC21110851-R2 Page 4 of 35

1 Revision History

| Revision | Issue Date | Revisions | Revised By |
|----------|------------|---------------|------------|
| 00 | 2021.11.18 | Initial Issue | Alisa Luo |
| | | | |
| | | | |

Report No.: MTWC21110851-R2 Page 5 of 35

2 TEST STANDARDS

The tests were performed according to following standards:

FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz.

ANSI C63.10-2013: American National Standard for Testing Unlicensed Wireless Devices KDB558074 D01 v05r02: Guidance for Compliance Measurements on Digital Transmission Systems (DTS) ,Frequency Hopping Spread Spectrum System(HFSS), and Hybrid System Devices Operating Under §15.247 of The FCC rules.

Report No.: MTWC21110851-R2 Page 6 of 35

3 SUMMARY

3.1 General Remarks

| Date of receipt of test sample | : | 2021.11.08 |
|--------------------------------|---|------------|
| | | |
| | | 2021.11.10 |
| Testing commenced on | : | |
| | | 2021.11.17 |
| | | 2021.11.08 |
| Testing concluded on | : | |

3.2 Product Description

| Product Name: | Internet Radio | |
|--|----------------------------------|--|
| Model/Type reference: | MA-800F | |
| Power Supply: | DC 9V by Adapter | |
| Testing sample ID: | MT21100180 | |
| WIFI: | | |
| Supported type: | 802.11b/802.11g/802.11n(H20) | |
| Modulation: 802.11b: DSSS 802.11g/802.11n(H20): OFDM | | |
| Operation frequency: 802.11b/802.11g/802.11n(H20): 2412MHz~2462MHz | | |
| Channel number: | 802.11b/802.11g/802.11n(H20): 11 | |
| Channel separation: | 5MHz | |
| Antenna type: | PCB antenna | |
| Antenna gain: | 0 dBi | |

3.3 Equipment Under Test

Power supply system utilised

| Power supply voltage | : | 0 | 230V / 50 Hz | • | 120V / 60Hz |
|----------------------|---|---|----------------------------------|---|-------------|
| | | 0 | 12 V DC | 0 | 24 V DC |
| | | 0 | Other (specified in blank below) | | |

DC 9V by Adapter

3.4 Short description of the Equipment under Test (EUT)

This is a Internet Radio.

For more details, refer to the user's manual of the EUT.

3.5 EUT operation mode

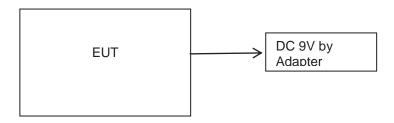
The application provider specific test software(AT command) to control sample in continuous TX and RX (Duty Cycle >98%) for testing meet KDB558074 test requirement.

Report No.: MTWC21110851-R2 Page 7 of 35

| TEEE 802.11b/g/n. Infreen channels are provided to the EUT | hirteen channels are provided to the EUT. |
|--|---|
|--|---|

| Channel | Frequency(MHz) | Channel | Frequency(MHz) |
|---------|----------------|---------|----------------|
| 1 | 2412 | 8 | 2447 |
| 2 | 2417 | 9 | 2452 |
| 3 | 2422 | 10 | 2457 |
| 4 | 2427 | 11 | 2462 |
| 5 | 2432 | | |
| 6 | 2437 | | |
| 7 | 2442 | | |

3.6 Block Diagram of Test Setup



3.7 Test Item (Equipment Under Test) Description*

| Short designation | EUT Name | EUT Description | Serial number | Hardware status | Software status |
|-------------------|----------|--------------------|---------------|--------------------|-----------------|
| EUT A | / | / | / | / | / |
| EUT B | / | / | / | / | / |
| | | | | | |

^{*:} declared by the applicant. According to customers information EUTs A and B are the same devices.

3.8 Auxiliary Equipment (AE) Description

| AE short designation | EUT Name (if available) | EUT Description | Serial number (if available) | Software (if used) |
|----------------------|----------------------------|-----------------|------------------------------|--------------------|
| AE 1 | 1 | 1 | 1 | 1 |
| AE 2 | 1 | 1 | 1 | 1 |

3.9 Antenna Information*

| Short designation | Antenna Name | Antenna Type | Frequency Range | Serial number | Antenna Peak Gain |
|-------------------|--------------|--------------|--------------------|---------------|----------------------|
| Antenna 1 | | PCB antenna | 2.4 – 2.5 GHz | | 0 dbi |
| Antenna 2 | | | | | |
| | | | | | |

^{*:} declared by the applicant.

3.10 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is intended for **FCC ID: 2ABD3-MA800F** filing to comply with Section 15.247 of the FCC Part 15, Subpart C Rules.

3.11 Modifications

No modifications were implemented to meet testing criteria.

Report No.: MTWC21110851-R2 Page 8 of 35

4 TEST ENVIRONMENT

4.1 Address of the test laboratory

Shenzhen Most Technology Service Co., Ltd.

No.5, 2nd Langshan Road, North District, Hi-tech Industrial Park, Nanshan, Shenzhen, Guangdong, China. The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.4:2014 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

4.2 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 0031192610

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

A2LA-Lab Cert. No.: 6343.01

Shenzhen Most Technology Service Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025: 2005 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing.

4.3 Environmental conditions

Radiated Emission:

| Temperature: | 24 ° C |
|-----------------------|--------------|
| | |
| Humidity: | 48 % |
| | |
| Atmospheric pressure: | 950-1050mbar |

AC Main Conducted testing:

| Temperature: | 24 ° C |
|-----------------------|--------------|
| | |
| Humidity: | 45 % |
| | |
| Atmospheric pressure: | 950-1050mbar |

Conducted testing:

| onadotod tooting. | |
|-----------------------|--------------|
| Temperature: | 24 ° C |
| | |
| Humidity: | 45 % |
| | |
| Atmospheric pressure: | 950-1050mbar |

Report No.: MTWC21110851-R2 Page 9 of 35

4.4 Test Description

| FCC PART 15.247 | | | | | |
|---------------------------------|--------------------------------|------|--|--|--|
| FCC Part 15.207 | AC Power Conducted Emission | PASS | | | |
| FCC Part 15.247(a)(2) | 6dB Bandwidth | PASS | | | |
| FCC Part 15.247(d) | Spurious RF Conducted Emission | PASS | | | |
| FCC Part 15.247(b) | Maximum Conducted Output Power | PASS | | | |
| FCC Part 15.247(e) | Power Spectral Density | PASS | | | |
| FCC Part 15.109/ 15.205/ 15.209 | Radiated Emissions | PASS | | | |
| FCC Part 15.247(d) | Band Edge | PASS | | | |
| FCC Part 15.203/15.247 (b) | Antenna Requirement | PASS | | | |

Data Rate Used:

Preliminary tests were performed in different data rate to find the worst radiated emission. The data rate shown in the table below is the worst-case rate with respect to the specific test item. Investigation has been done on all the possible configurations for searching the worst cases. The following table is a list of the test modes shown in this test report.

| Test Items | Mode | Data Rate | Channel |
|--|-----------------|-----------|---------|
| Maximum Peak Conducted Output Power | 11b/DSSS | 1 Mbps | 1/6/11 |
| Power Spectral Density 6dB Bandwidth | 11g/OFDM | 6 Mbps | 1/6/11 |
| Spurious RF conducted emission Radiated Emission 9KHz~1GHz& Radiated Emission 1GHz~10 th Harmonic | 11n(20MHz)/OFDM | 6.5Mbps | 1/6/11 |
| | 11b/DSSS | 1 Mbps | 1/11 |
| Band Edge | 11g/OFDM | 6 Mbps | 1/11 |
| | 11n(20MHz)/OFDM | 6.5Mbps | 1/11 |

4.5 Statement of the measurement uncertainty

The data and results referenced in this document are true and accurate. The reader is cautioned that there may be errors within the calibration limits of the equipment and facilities. The measurement uncertainty was calculated for all measurements listed in this test report acc. to CISPR 16 - 4 "Specification for radio disturbance and immunity measuring apparatus and methods — Part 4: Uncertainty in EMC Measurements" and is documented in the Shenzhen Most Technology Service Co., Ltd. quality system acc. to DIN EN ISO/IEC 17025. Furthermore, component and process variability of devices similar to that tested may result in additional deviation. The manufacturer has the sole responsibility of continued compliance of the device.

Hereafter the best measurement capability for Shenzhen Most Technology Service Co., Ltd. is reported:

| Test | Test Range | | |
|-----------------------|------------|---------|-----|
| Radiated Emission | 30~1000MHz | 4.10 dB | (1) |
| Radiated Emission | 1~18GHz | 4.32 dB | (1) |
| Radiated Emission | 18-40GHz | 5.54 dB | (1) |
| Conducted Disturbance | 0.15~30MHz | 3.12 dB | (1) |

⁽¹⁾ This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Report No.: MTWC21110851-R2 Page 10 of 35

4.6 Equipments Used during the Test

| Item | Equipment | Manufacturer | Model No. | Model No. Serial No. | | Cal. Interval |
|------|---------------------------------------|--------------------|--------------------|----------------------|------------|------------------|
| 1. | L.I.S.N. | R&S | ENV216 | 100093 | 2021/04/19 | 1 Year |
| 2 | Three-phase artificial power network | Schwarzback Mess | NNLK8129 | 8129178 | 2021/04/19 | 1 Year |
| 3. | Receiver | R&S | ESCI | 100492 | 2021/04/7 | 1 Year |
| 4 | Receiver | R&S | ESPI | 101202 | 2021/04/7 | 1 Year |
| 5 | Spectrum analyzer | Agilent | 9020A | MT-E306 | 2021/04/7 | 1 Year |
| 6 | Bilong Antenna | Sunol Sciences | JB3 | A121206 | 2021/03/14 | 1 Year |
| 7 | Horn antenna | HF Antenna | HF Antenna | MT-E158 | 2021/04/7 | 1 Year |
| 8 | Loop antenna | Beijing Daze ZN309 | | / | 2021/04/16 | 1 Year |
| 9 | Horn antenna | R&S | OBH100400 26999002 | | 2021/04/16 | 1 Year |
| 10 | Wireless Communication Test Set | R&S | CMW500 | CMW500 / | | 1 Year |
| 11 | Spectrum analyzer | R&S | FSP | 100019 | 2021/04/15 | 1 Year |
| 12 | High gain antenna | Schwarzbeck | LB-180400KF | MT-E389 | 2021/03/14 | 1 Year |
| 13 | Preamplifier | Schwarzbeck | BBV 9743 | MT-E390 | 2021/03/14 | 1 Year |
| 14 | Pre-amplifier | EMCI | EMC051845S E | MT-E391 | 2021/03/14 | 1 Year |
| 15 | Pre-amplifier | Agilent | 83051A | MT-E392 | 2021/03/14 | 1 Year |
| 16 | High pass filter unit | Tonscend | JS0806-F | MT-E393 | 2021/03/14 | 1 Year |
| 17 | RF Cable(below1GHz) | Times | 9kHz-1GHz | MT-E394 | 2021/03/14 | 1 Year |
| 18 | RF Cable(above 1GHz) | Times | 1-40G | MT-E395 | 2021/03/14 | 1 Year |
| 19 | RF Cable (9KHz-40GHz) | Tonscend | 170660 | N/A | 2021/03/14 | 1 Year |

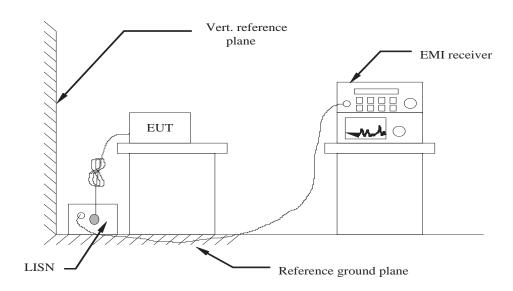
Note: The Cal.Interval was one year.

Report No.: MTWC21110851-R2 Page 11 of 35

5 TEST CONDITIONS AND RESULTS

5.1 AC Power Conducted Emission

TEST CONFIGURATION



TEST PROCEDURE

- 1 The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. The EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.10-2013.
- 2 Support equipment, if needed, was placed as per ANSI C63.10-2013
- 3 All I/O cables were positioned to simulate typical actual usage as per ANSI C63.10-2013
- 4 The EUT received DC 12V power from adapter, the adapter received AC120V/60Hz and AC 240V/60Hz power through a Line Impedance Stabilization Network (LISN) which supplied power source and was grounded to the ground plane.
- 5 All support equipments received AC power from a second LISN, if any.
- 6 The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a spectrum Analyzer / Receiver connected to the LISN powering the EUT.The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to Analyzer / Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Analyzer / Receiver.
- 7 Analyzer / Receiver scanned from 150 KHz to 30MHz for emissions in each of the test modes.
- 8 During the above scans, the emissions were maximized by cable manipulation.

AC Power Conducted Emission Limit

For intentional device, according to § 15.207(a) AC Power Conducted Emission Limits is as following:

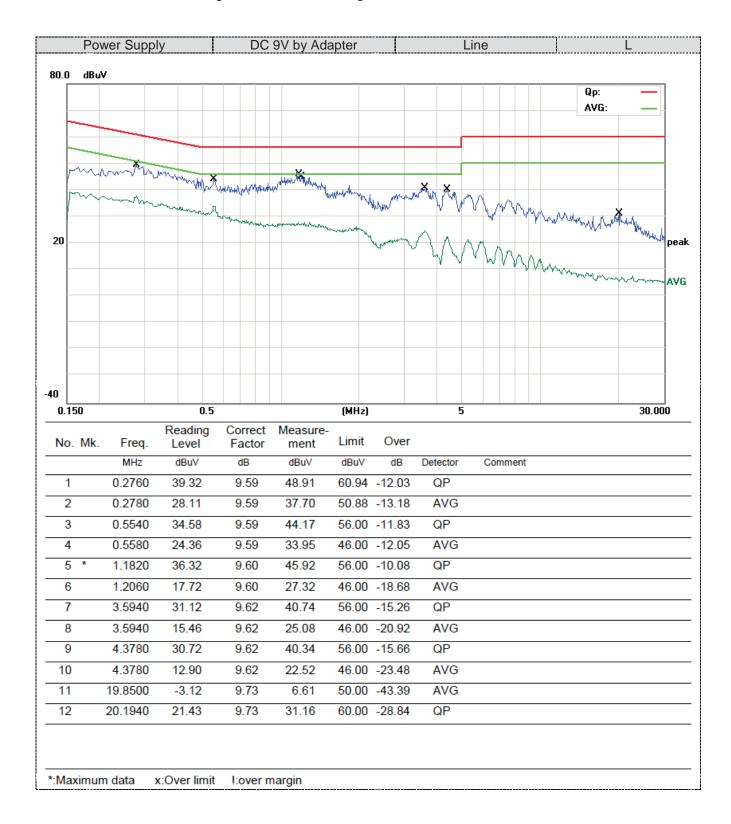
| Frequency range (MHz) | Limit (dBuV) | | | | |
|--|--------------|-----------|--|--|--|
| r requericy rarige (Miriz) | Quasi-peak | Average | | | |
| 0.15-0.5 | 66 to 56* | 56 to 46* | | | |
| 0.5-5 | 56 | 46 | | | |
| 5-30 | 60 | 50 | | | |
| * Decreases with the logarithm of the frequency. | | | | | |

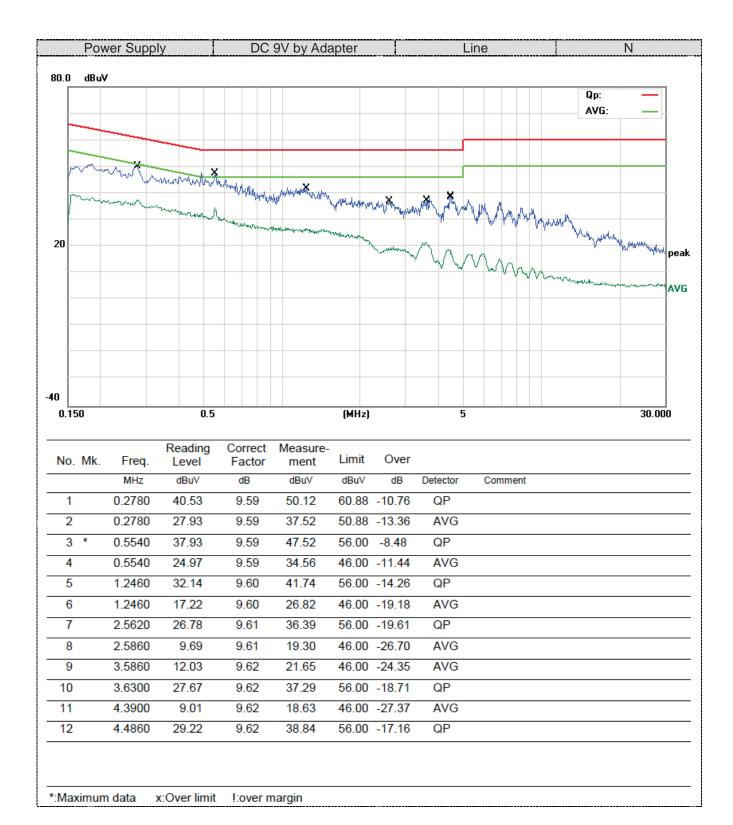
Report No.: MTWC21110851-R2 Page 12 of 35

TEST RESULTS

Remark:

- 1. All modes were test at Low, Middle, and High channel; only the worst result of 802.11b low channel was reported as below:
- 2. Both 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz power supply have been tested, only the worst result of 120 VAC, 60 Hz was reported as below:
- 3. Remark: Result=Reading value+Factor, and Margin=Limit- Result



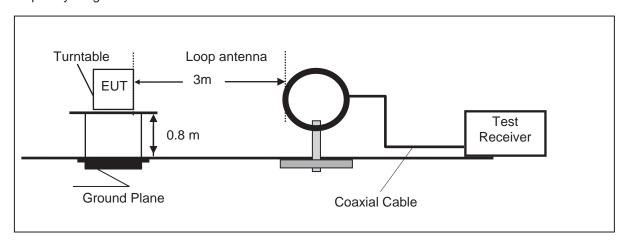


Report No.: MTWC21110851-R2 Page 14 of 35

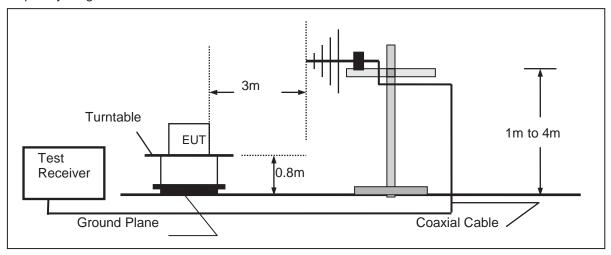
5.2 Radiated Emission

TEST CONFIGURATION

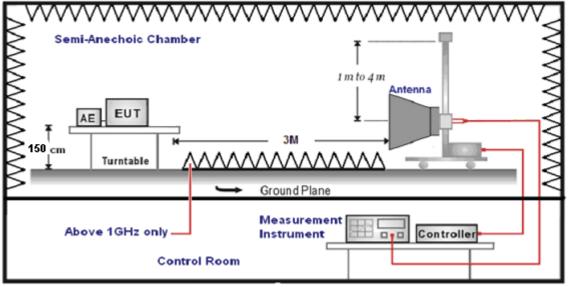
Frequency range 9 KHz – 30MHz



Frequency range 30MHz - 1000MHz



Frequency range above 1GHz-25GHz



Report No.: MTWC21110851-R2 Page 15 of 35

TEST PROCEDURE

- 1. The EUT was placed on a turn table which is 0.8m above ground plane when testing frequency range 9 KHz –1GHz;the EUT was placed on a turn table which is 1.5m above ground plane when testing frequency range 1GHz 25GHz.
- 2. Maximum procedure was performed by raising the receiving antenna from 1m to 4m and rotating the turn table from 0° to 360° to acquire the highest emissions from EUT.
- And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 4. Repeat above procedures until all frequency measurements have been completed.
- 5. Radiated emission test frequency band from 9KHz to 25GHz.
- 6. The distance between test antenna and EUT as following table states:

| Test Frequency range | Test Antenna Type | Test Distance |
|----------------------|----------------------------|---------------|
| 9KHz-30MHz | Active Loop Antenna | 3 |
| 30MHz-1GHz | Ultra-Broadband Antenna | 3 |
| 1GHz-18GHz | Double Ridged Horn Antenna | 3 |
| 18GHz-25GHz | Horn Anternna | 1 |

7. Setting test receiver/spectrum as following table states:

| Test Frequency range | Detector | |
|----------------------|--|------|
| 9KHz-150KHz | RBW=200Hz/VBW=3KHz,Sweep time=Auto | QP |
| 150KHz-30MHz | RBW=9KHz/VBW=100KHz,Sweep time=Auto | QP |
| 30MHz-1GHz | RBW=120KHz/VBW=1000KHz,Sweep time=Auto | QP |
| | Peak Value: RBW=1MHz/VBW=3MHz, | |
| 1GHz-40GHz | Sweep time=Auto | |
| | Average Value: RBW=1MHz/VBW=10Hz, | Peak |
| | Sweep time=Auto | |

Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor(if any) from the measured reading. The basic equation with a sample calculation is as follows:

FS = RA + AF + CL - AG

| Where FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
|---------------------------|--|
| RA = Reading Amplitude | AG = Amplifier Gain |
| AF = Antenna Factor | |

Transd=AF +CL-AG

RADIATION LIMIT

For intentional device, according to § 15.209(a), the general requirement of field strength of radiated emission from intentional radiators at a distance of 3 meters shall not exceed the following table. According to § 15.247(d), in any 100kHz bandwidth outside the frequency band in which the EUT is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20dB below that in the100kHz bandwidth within the band that contains the highest level of desired power.

The pre-test have done for the EUT in three axes and found the worst emission at position shown in test setup photos.

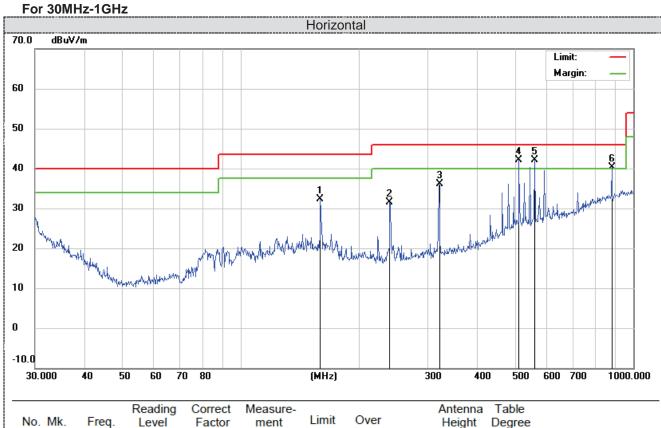
| Frequency (MHz) | Distance (Meters) | Radiated (dBµV/m) | Radiated (µV/m) |
|-----------------|----------------------|----------------------------------|-----------------|
| 0.009-0.49 | 3 | 20log(2400/F(KHz))+40log(300/3) | 2400/F(KHz) |
| 0.49-1.705 | 3 | 20log(24000/F(KHz))+ 40log(30/3) | 24000/F(KHz) |
| 1.705-30 | 3 | 20log(30)+ 40log(30/3) | 30 |
| 30-88 | 3 | 40.0 | 100 |
| 88-216 | 3 | 43.5 | 150 |
| 216-960 | 3 | 46.0 | 200 |
| Above 960 | 3 | 54.0 | 500 |

Report No.: MTWC21110851-R2 Page 16 of 35

TEST RESULTS

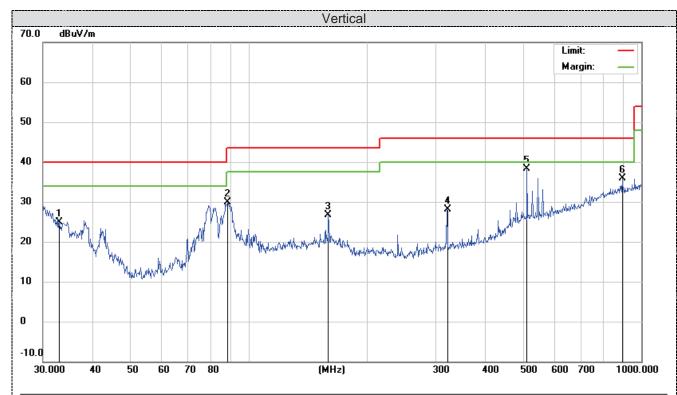
Remark:

- This test was performed with EUT in X, Y, Z position and the worse case was found when EUT in X position.
- 2. All three channels (lowest/middle/highest) of each mode were measured below 1GHz and recorded worst case at 802.11b low channel.
- 3. Radiated emission test from 9 KHz to 10th harmonic of fundamental was verified, and no emission found except system noise floor in 9 KHz to 30MHz and not recorded in this report.
- 4. Remark: Result=Reading value+Factor



| No. | Mk | . Freq. | Level | Factor | ment | Limit | Over | | Height | Degree | |
|-----|-----------------------|--------------------------|--|---|---|---|--|--|--|--|---|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 159.7844 | 15.00 | 17.31 | 32.31 | 43.50 | -11.19 | QP | 200 | 75 | |
| 2 | | 239.9873 | 17.50 | 14.08 | 31.58 | 46.00 | -14.42 | QP | 200 | 130 | |
| 3 | | 319.9370 | 20.17 | 15.88 | 36.05 | 46.00 | -9.95 | QP | 200 | 230 | |
| 4 | ļ | 511.8352 | 19.21 | 22.83 | 42.04 | 46.00 | -3.96 | QP | 200 | 280 | |
| 5 | * | 560.6928 | 18.70 | 23.37 | 42.07 | 46.00 | -3.93 | QP | 200 | 310 | |
| 6 | ļ | 881.4067 | 11.46 | 28.80 | 40.26 | 46.00 | -5.74 | QP | 200 | 330 | |
| | 1 2 3 4 5 | 1 2 3 4! 5 * | MHz 1 159.7844 2 239.9873 3 319.9370 4 ! 511.8352 5 * 560.6928 | No. Mk. Freq. Level MHz dBuV 1 159.7844 15.00 2 239.9873 17.50 3 319.9370 20.17 4 ! 511.8352 19.21 5 * 560.6928 18.70 | No. Mk. Freq. Level Factor MHz dBuV dB 1 159.7844 15.00 17.31 2 239.9873 17.50 14.08 3 319.9370 20.17 15.88 4 ! 511.8352 19.21 22.83 5 * 560.6928 18.70 23.37 | No. Mk. Freq. Level Factor ment MHz dBuV dB dBuV/m 1 159.7844 15.00 17.31 32.31 2 239.9873 17.50 14.08 31.58 3 319.9370 20.17 15.88 36.05 4 1 511.8352 19.21 22.83 42.04 5 * 560.6928 18.70 23.37 42.07 | No. Mk. Freq. Level Factor ment Limit MHz dBuV dB dBuV/m dBuV/m 1 159.7844 15.00 17.31 32.31 43.50 2 239.9873 17.50 14.08 31.58 46.00 3 319.9370 20.17 15.88 36.05 46.00 4 ! 511.8352 19.21 22.83 42.04 46.00 5 * 560.6928 18.70 23.37 42.07 46.00 | No. Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB dBuV/m dB 1 159.7844 15.00 17.31 32.31 43.50 -11.19 2 239.9873 17.50 14.08 31.58 46.00 -14.42 3 319.9370 20.17 15.88 36.05 46.00 -9.95 4 ! 511.8352 19.21 22.83 42.04 46.00 -3.96 5 * 560.6928 18.70 23.37 42.07 46.00 -3.93 | No. Mk. Freq. Level Factor ment Limit Over MHz dBuV dB dBuV/m dBuV/m dB Detector 1 159.7844 15.00 17.31 32.31 43.50 -11.19 QP 2 239.9873 17.50 14.08 31.58 46.00 -14.42 QP 3 319.9370 20.17 15.88 36.05 46.00 -9.95 QP 4 ! 511.8352 19.21 22.83 42.04 46.00 -3.96 QP 5 * 560.6928 18.70 23.37 42.07 46.00 -3.93 QP | No. Mk. Freq. Level Factor ment Limit Over Height MHz dBuV dB dBuV/m dBuV/m dB Detector cm 1 159.7844 15.00 17.31 32.31 43.50 -11.19 QP 200 2 239.9873 17.50 14.08 31.58 46.00 -14.42 QP 200 3 319.9370 20.17 15.88 36.05 46.00 -9.95 QP 200 4 ! 511.8352 19.21 22.83 42.04 46.00 -3.96 QP 200 5 * 560.6928 18.70 23.37 42.07 46.00 -3.93 QP 200 | No. Mk. Freq. Level Factor ment Limit Over Height Degree MHz dBuV dB dBuV/m dBuV/m dB Detector cm degree 1 159.7844 15.00 17.31 32.31 43.50 -11.19 QP 200 75 2 239.9873 17.50 14.08 31.58 46.00 -14.42 QP 200 130 3 319.9370 20.17 15.88 36.05 46.00 -9.95 QP 200 230 4 1 511.8352 19.21 22.83 42.04 46.00 -3.96 QP 200 280 5 * 560.6928 18.70 23.37 42.07 46.00 -3.93 QP 200 310 |

*:Maximum data x:Over limit !:over margin



| No. | Mk | . Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-----|----|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | | 32.9791 | 6.05 | 18.87 | 24.92 | 40.00 | -15.08 | QP | 100 | 45 | |
| 2 | | 88.6524 | 20.00 | 9.93 | 29.93 | 43.50 | -13.57 | QP | 100 | 70 | |
| 3 | | 159.7844 | 9.16 | 17.51 | 26.67 | 43.50 | -16.83 | QP | 100 | 90 | |
| 4 | | 319.9370 | 12.24 | 15.88 | 28.12 | 46.00 | -17.88 | QP | 100 | 120 | |
| 5 | * | 511.8352 | 15.55 | 22.83 | 38.38 | 46.00 | -7.62 | QP | 100 | 150 | |
| 6 | | 893.8567 | 7.02 | 28.93 | 35.95 | 46.00 | -10.05 | QP | 100 | 170 | |

*:Maximum data x:Over limit !:over margin

Report No.: MTWC21110851-R2 Page 18 of 35

For 1GHz to 25GHz

Note: 802.11b/802.11g/802.11n (H20)all have been tested, only worse case 802.11b mode is reported

| Polar (H/V) | Frequency | Reading | Antenna Factor | Cable loss | Preamp factor | Emission Level | Limits | Margin | Detector Type | | |
|----------------|-----------------|---------|-------------------|------------|---------------|-------------------|----------|--------|------------------|--|--|
| (177) | (MHz) | (dBuV) | (dB) | (dB) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | Type | | |
| | 802.11b-2412MHz | | | | | | | | | | |
| V | 4824 | 55.84 | 30.28 | 7.01 | 36.5 | 56.63 | 74 | 17.37 | PK | | |
| V | 4824 | 43.9 | 30.28 | 7.01 | 36.5 | 44.69 | 54 | 9.31 | AV | | |
| Н | 4824 | 54.54 | 30.28 | 7.01 | 36.5 | 55.33 | 74 | 18.67 | PK | | |
| Н | 4824 | 43.72 | 30.28 | 7.01 | 36.5 | 44.51 | 54 | 9.49 | AV | | |
| V | 7236 | 41.58 | 36.59 | 8.91 | 35.3 | 51.78 | 74 | 22.22 | PK | | |
| V | 7236 | 31.01 | 36.59 | 8.91 | 35.3 | 41.21 | 54 | 12.79 | AV | | |
| Н | 7236 | 40.75 | 36.59 | 8.91 | 35.3 | 50.95 | 74 | 23.05 | PK | | |
| Н | 7236 | 31.67 | 36.59 | 8.91 | 35.3 | 41.87 | 54 | 12.13 | AV | | |
| | | | | 802.11 | b -2437MH | lz | | | | | |
| V | 4874 | 56.41 | 30.36 | 7.62 | 36.5 | 57.89 | 74 | 16.11 | PK | | |
| V | 4874 | 42.55 | 30.36 | 7.62 | 36.5 | 44.03 | 54 | 9.97 | AV | | |
| Н | 4874 | 54.04 | 30.36 | 7.62 | 36.5 | 55.52 | 74 | 18.48 | PK | | |
| Н | 4874 | 41.29 | 30.36 | 7.62 | 36.5 | 42.77 | 54 | 11.23 | AV | | |
| V | 7311 | 42.84 | 36.61 | 8.84 | 35.3 | 52.99 | 74 | 21.01 | PK | | |
| V | 7311 | 30.37 | 36.61 | 8.84 | 35.3 | 40.52 | 54 | 13.48 | AV | | |
| Н | 7311 | 40.63 | 36.61 | 8.84 | 35.3 | 50.78 | 74 | 23.22 | PK | | |
| Н | 7311 | 29.6 | 36.61 | 8.84 | 35.3 | 39.75 | 54 | 14.25 | AV | | |
| | | | | 802.11 | b -2462MF | lz | | | | | |
| V | 4924 | 54.49 | 30.43 | 7.94 | 36.2 | 56.66 | 74 | 17.34 | PK | | |
| V | 4924 | 41.29 | 30.43 | 7.94 | 36.2 | 43.46 | 54 | 10.54 | AV | | |
| Н | 4924 | 57.77 | 30.43 | 7.94 | 36.2 | 59.94 | 74 | 14.06 | PK | | |
| Н | 4924 | 41.92 | 30.43 | 7.94 | 36.2 | 44.09 | 54 | 9.91 | AV | | |
| V | 7386 | 42.6 | 36.78 | 8.45 | 35.3 | 52.53 | 74 | 21.47 | PK | | |
| V | 7386 | 31.98 | 36.78 | 8.45 | 35.3 | 41.91 | 54 | 12.09 | AV | | |
| Н | 7386 | 42.71 | 36.78 | 8.45 | 35.3 | 52.64 | 74 | 21.36 | PK | | |
| Н | 7386 | 29.56 | 36.78 | 8.45 | 35.3 | 39.49 | 54 | 14.51 | AV | | |

Note:

- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- 5) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Results of Band Edges Test (Radiated)

| Polar (H/V) | Frequency | Meter Reading | Antenna Factor | Cable loss | Preamp factor | Emission Level | Limits | Margin | Detector | | |
|----------------|------------------|------------------|-------------------|------------|---------------|-------------------|----------|--------|----------|--|--|
| (1777) | (MHz) | (dBuV) | (dB) | (dB) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | Type | | |
| | 802.11b -2412MHz | | | | | | | | | | |
| V | 2390 | 59.23 | 27.49 | 3.32 | 36.22 | 53.82 | 74 | 20.18 | PK | | |
| V | 2390 | 45.76 | 27.49 | 3.32 | 36.22 | 40.35 | 54 | 13.65 | AV | | |
| Н | 2390 | 58.05 | 27.49 | 3.32 | 36.22 | 52.64 | 74 | 21.36 | PK | | |
| Н | 2390 | 46.96 | 27.49 | 3.32 | 36.22 | 41.55 | 54 | 12.45 | AV | | |
| V | 2400 | 59.56 | 27.55 | 3.41 | 36.22 | 54.3 | 74 | 19.7 | PK | | |
| V | 2400 | 45.63 | 27.55 | 3.41 | 36.22 | 40.37 | 54 | 13.63 | AV | | |
| Н | 2400 | 59.05 | 27.55 | 3.41 | 36.22 | 53.79 | 74 | 20.21 | PK | | |
| Н | 2400 | 44.68 | 27.55 | 3.41 | 36.22 | 39.42 | 54 | 14.58 | AV | | |
| | | | | 802.11 | b -2462MF | lz | | | | | |
| V | 2483.5 | 58.53 | 27.45 | 3.38 | 36.34 | 53.02 | 74 | 20.98 | PK | | |
| V | 2483.5 | 47.23 | 27.45 | 3.38 | 36.34 | 41.72 | 54 | 12.28 | AV | | |
| Н | 2483.5 | 59.91 | 27.45 | 3.38 | 36.34 | 54.4 | 74 | 19.6 | PK | | |
| Н | 2483.5 | 44.47 | 27.45 | 3.38 | 36.34 | 38.96 | 54 | 15.04 | AV | | |
| V | 2500 | 57.26 | 27.41 | 3.47 | 36.35 | 51.79 | 74 | 22.21 | PK | | |
| V | 2500 | 46.17 | 27.41 | 3.47 | 36.35 | 40.7 | 54 | 13.3 | AV | | |
| Н | 2500 | 59.65 | 27.41 | 3.47 | 36.35 | 54.18 | 74 | 19.82 | PK | | |
| Н | 2500 | 43.48 | 27.41 | 3.47 | 36.35 | 38.01 | 54 | 15.99 | AV | | |

| Polar (H/V) | Frequency | Meter Reading | Antenna Factor | Cable loss | Preamp factor | Emission Level | Limits | Margin | Detector Type | | |
|----------------|------------------|------------------|-------------------|------------|---------------|-------------------|----------|--------|------------------|--|--|
| (11, 4) | (MHz) | (dBuV) | (dB) | (dB) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | Турс | | |
| | 802.11g -2412MHz | | | | | | | | | | |
| V | 2390 | 55.35 | 27.49 | 3.32 | 36.22 | 49.94 | 74 | 24.06 | PK | | |
| V | 2390 | 46.24 | 27.49 | 3.32 | 36.22 | 40.83 | 54 | 13.17 | AV | | |
| Н | 2390 | 55.88 | 27.49 | 3.32 | 36.22 | 50.47 | 74 | 23.53 | PK | | |
| Н | 2390 | 44.81 | 27.49 | 3.32 | 36.22 | 39.4 | 54 | 14.6 | AV | | |
| V | 2400 | 57.43 | 27.55 | 3.41 | 36.22 | 52.17 | 74 | 21.83 | PK | | |
| V | 2400 | 46.64 | 27.55 | 3.41 | 36.22 | 41.38 | 54 | 12.62 | AV | | |
| Н | 2400 | 57.14 | 27.55 | 3.41 | 36.22 | 51.88 | 74 | 22.12 | PK | | |
| Н | 2400 | 45.19 | 27.55 | 3.41 | 36.22 | 39.93 | 54 | 14.07 | AV | | |
| | | | | 802.11 | g -2462MF | lz | | | | | |
| V | 2483.5 | 57.75 | 27.45 | 3.38 | 36.34 | 52.24 | 74 | 21.76 | PK | | |
| V | 2483.5 | 47.04 | 27.45 | 3.38 | 36.34 | 41.53 | 54 | 12.47 | AV | | |
| Н | 2483.5 | 55.61 | 27.45 | 3.38 | 36.34 | 50.1 | 74 | 23.9 | PK | | |
| Н | 2483.5 | 45.2 | 27.45 | 3.38 | 36.34 | 39.69 | 54 | 14.31 | AV | | |
| V | 2500 | 55.66 | 27.41 | 3.47 | 36.35 | 50.19 | 74 | 23.81 | PK | | |
| V | 2500 | 46.09 | 27.41 | 3.47 | 36.35 | 40.62 | 54 | 13.38 | AV | | |
| Н | 2500 | 58.53 | 27.41 | 3.47 | 36.35 | 53.06 | 74 | 20.94 | PK | | |
| Н | 2500 | 46.18 | 27.41 | 3.47 | 36.35 | 40.71 | 54 | 13.29 | AV | | |

Report No.: MTWC21110851-R2 Page 20 of 35

| Polar (H/V) | Frequency | Meter Reading | Antenna Factor | Cable loss | Preamp factor | Emission Level | Limits | Margin | Detector Type | | |
|----------------|------------------|------------------|-------------------|------------|---------------|-------------------|----------|--------|------------------|--|--|
| (11/4) | (MHz) | (dBuV) | (dB) | (dB) | (dB) | (dBuV/m) | (dBuV/m) | (dB) | Турс | | |
| | 802.11n -2412MHz | | | | | | | | | | |
| V | 2390 | 57.03 | 27.49 | 3.32 | 36.22 | 51.62 | 74 | 22.38 | PK | | |
| V | 2390 | 44.74 | 27.49 | 3.32 | 36.22 | 39.33 | 54 | 14.67 | AV | | |
| Н | 2390 | 57.24 | 27.49 | 3.32 | 36.22 | 51.83 | 74 | 22.17 | PK | | |
| Η | 2390 | 44.33 | 27.49 | 3.32 | 36.22 | 38.92 | 54 | 15.08 | AV | | |
| V | 2400 | 58.34 | 27.55 | 3.41 | 36.22 | 53.08 | 74 | 20.92 | PK | | |
| V | 2400 | 44.84 | 27.55 | 3.41 | 36.22 | 39.58 | 54 | 14.42 | AV | | |
| Η | 2400 | 59.74 | 27.55 | 3.41 | 36.22 | 54.48 | 74 | 19.52 | PK | | |
| Н | 2400 | 47.68 | 27.55 | 3.41 | 36.22 | 42.42 | 54 | 11.58 | AV | | |
| | | | | 802.11 | n -2462MF | łz | | | | | |
| V | 2483.5 | 57.9 | 27.45 | 3.38 | 36.34 | 52.39 | 74 | 21.61 | PK | | |
| V | 2483.5 | 43.23 | 27.45 | 3.38 | 36.34 | 37.72 | 54 | 16.28 | AV | | |
| Н | 2483.5 | 56.55 | 27.45 | 3.38 | 36.34 | 51.04 | 74 | 22.96 | PK | | |
| Н | 2483.5 | 47.43 | 27.45 | 3.38 | 36.34 | 41.92 | 54 | 12.08 | AV | | |
| V | 2500 | 56.89 | 27.41 | 3.47 | 36.35 | 51.42 | 74 | 22.58 | PK | | |
| V | 2500 | 44.95 | 27.41 | 3.47 | 36.35 | 39.48 | 54 | 14.52 | AV | | |
| Н | 2500 | 57.61 | 27.41 | 3.47 | 36.35 | 52.14 | 74 | 21.86 | PK | | |
| Н | 2500 | 45.83 | 27.41 | 3.47 | 36.35 | 40.36 | 54 | 13.64 | AV | | |

Note:

- 1) Emission level (dBuV/m) = Meter Reading+ antenna Factor+ cable loss- preamp factor.
- 2) Margin value = Limits-Emission level.
- 3) -- Mean the PK detector measured value is below average limit.
- 4) The other emission levels were very low against the limit.
- 5) RBW1MHz VBW3MHz Peak detector is for PK value; RBW 1MHz VBW10Hz Peak detector is for AV value.

Report No.: MTWC21110851-R2 Page 21 of 35

5.3 Maximum Conducted Output Power

Limit

The Maximum Peak Output Power Measurement is 30dBm.

Test Procedure

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power sensor.

Test Configuration



Test Results

| Туре | Channel | Output power PK (dBm) | Limit (dBm) | Result |
|---------------|---------|--------------------------|-------------|--------|
| | 01 | 8.767 | | |
| 802.11b | 06 | 10.596 | 30.00 | Pass |
| | 11 | 8.756 | | |
| | 01 | 9.441 | | Pass |
| 802.11g | 06 | 11.089 | 30.00 | |
| | 11 | 10.277 | | |
| | 01 | 9.612 | | |
| 802.11n(HT20) | 06 | 10.561 | 30.00 | Pass |
| | 11 | 9.609 | | |

Note:

- 1) Measured output power at difference data rate for each mode and recorded worst case for each mode.
- 2) Test results including cable loss.
- 3) Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; 6.5Mbps at IEEE 802.11n HT20;

Report No.: MTWC21110851-R2 Page 22 of 35

5.4 Power Spectral Density

Limit

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

Test Procedure

- 1. Use this procedure when the maximum peak conducted output power in the fundamental emission is used to demonstrate compliance.
- 2. Set the RBW ≥ 3 kHz.
- 3. Set the VBW ≥ 3× RBW.
- 4. Set the span to 1.5 times the DTS channel bandwidth.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum power level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.
- 11. The resulting peak PSD level must be 8dBm.

Test Configuration



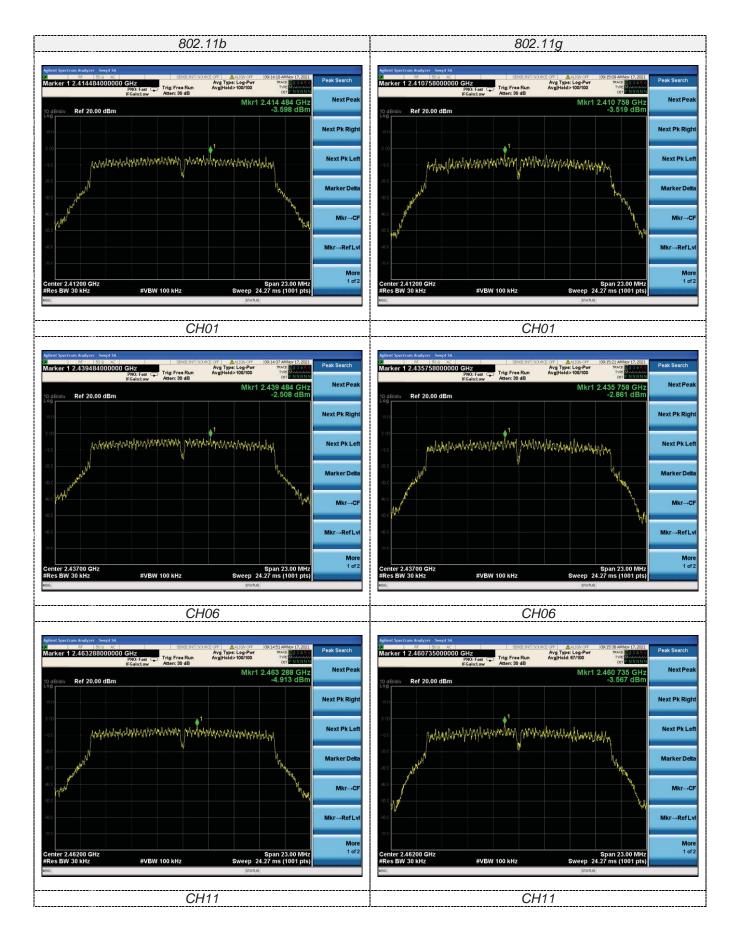
Test Results

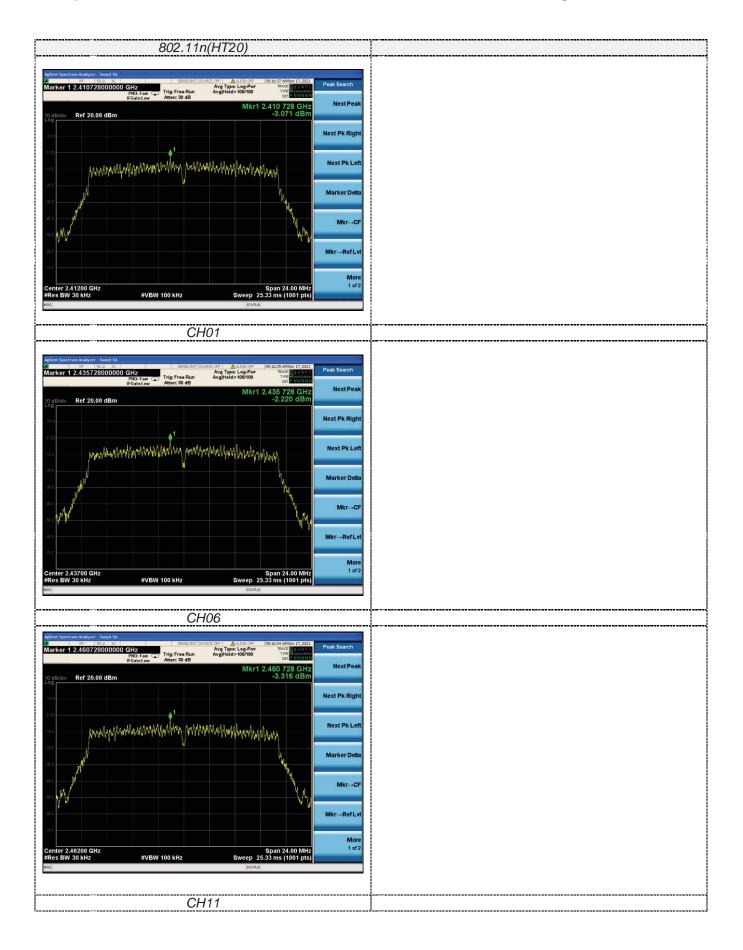
| 1621 Kezuitz | | | | | |
|---------------|---------|-----------------------------------|------------------|--------|--|
| Туре | Channel | Power Spectral Density (dBm/3KHz) | Limit (dBm/3KHz) | Result | |
| | 01 | -3.598 | | | |
| 802.11b | 06 | -2.508 | 8.00 | Pass | |
| | 11 | -4.913 | | | |
| | 01 | -3.519 | | Pass | |
| 802.11g | 06 | -2.861 | 8.00 | | |
| | 11 | -3.567 | | | |
| | 01 | -3.071 | | | |
| 802.11n(HT20) | 06 | -2.220 | 8.00 | Pass | |
| , , | 11 | -3.316 |] | | |

Note:

- 1) Measured peak power spectrum density at difference data rate for each mode and recorded worst case for each mode.
- Test results including cable loss;
- 3) Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; 6.5Mbps at IEEE 802.11n HT20;

Please refer to following plots;





Report No.: MTWC21110851-R2 Page 25 of 35

5.5 6dB Bandwidth

Limit

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

Test Procedure

The transmitter output was connected to the spectrum analyzer through an attenuator. The bandwidth of the fundamental frequency was measured by spectrum analyzer with 100 KHz RBW and 300 KHz VBW. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

Test Configuration



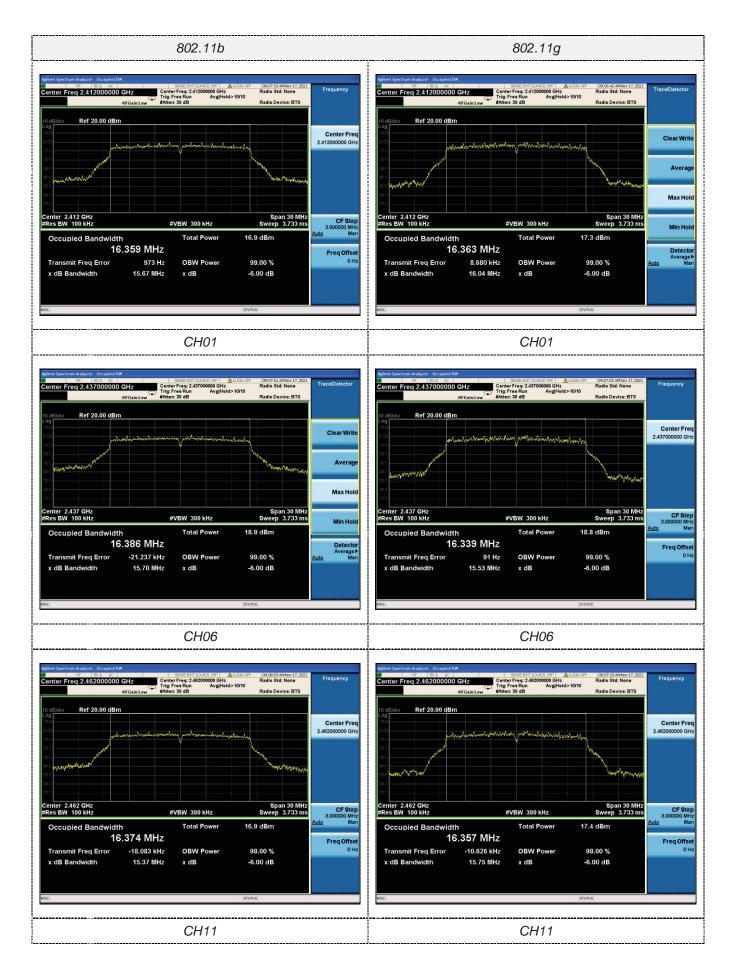
Test Results

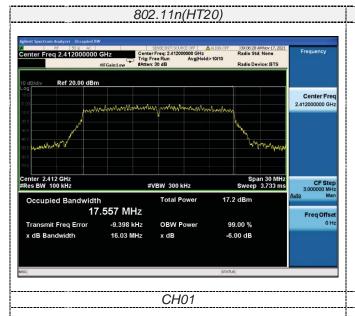
| Туре | Channel | 6dB Bandwidth (MHz) | Limit (KHz) | Result |
|---------------|---------|---------------------|-------------|--------|
| | 01 | 15.67 | | |
| 802.11b | 06 | 15.70 | ≥500 | Pass |
| | 11 | 15.37 | | |
| | 01 | 16.04 | | Pass |
| 802.11g | 06 | 15.53 | ≥500 | |
| | 11 | 15.75 | | |
| | 01 | 16.03 | | |
| 802.11n(HT20) | 06 | 15.62 | ≥500 | Pass |
| | 11 | 16.27 | | |

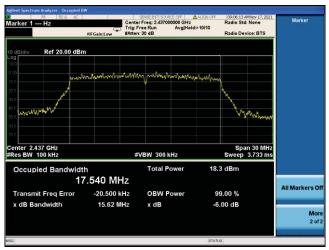
Note:

- 1) Measured peak power spectrum density at difference data rate for each mode and recorded worst case for each mode.
- 2) Test results including cable loss;
- 3) Worst case data at 1Mbps at IEEE 802.11b; 6Mbps at IEEE 802.11g; 6.5Mbps at IEEE 802.11n HT20;

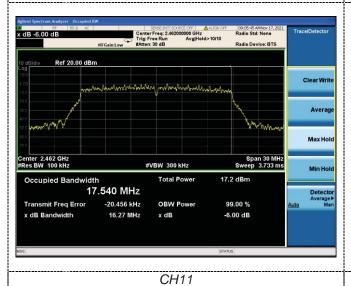
Please refer to following plots;







CH06



Report No.: MTWC21110851-R2 Page 28 of 35

5.6 Out-of-band Emissions

Limit

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated 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 con-ducted or a radiated measurement, pro-vided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter com-plies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required.

Test Procedure

Connect the transmitter output to spectrum analyzer using a low loss RF cable, and set the spectrum analyzer to RBW=100 kHz, VBW= 300 kHz, peak detector, and max hold. Measurements utilizing these setting are made of the in-band reference level, bandedge and out-of-band emissions.

Test Configuration



Test Results

Remark: The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The lowest, middle and highest channels are tested to verify the spurious emissions and bandage measurement data. And record the worst data in the report.

Test plot as follows:





CH01



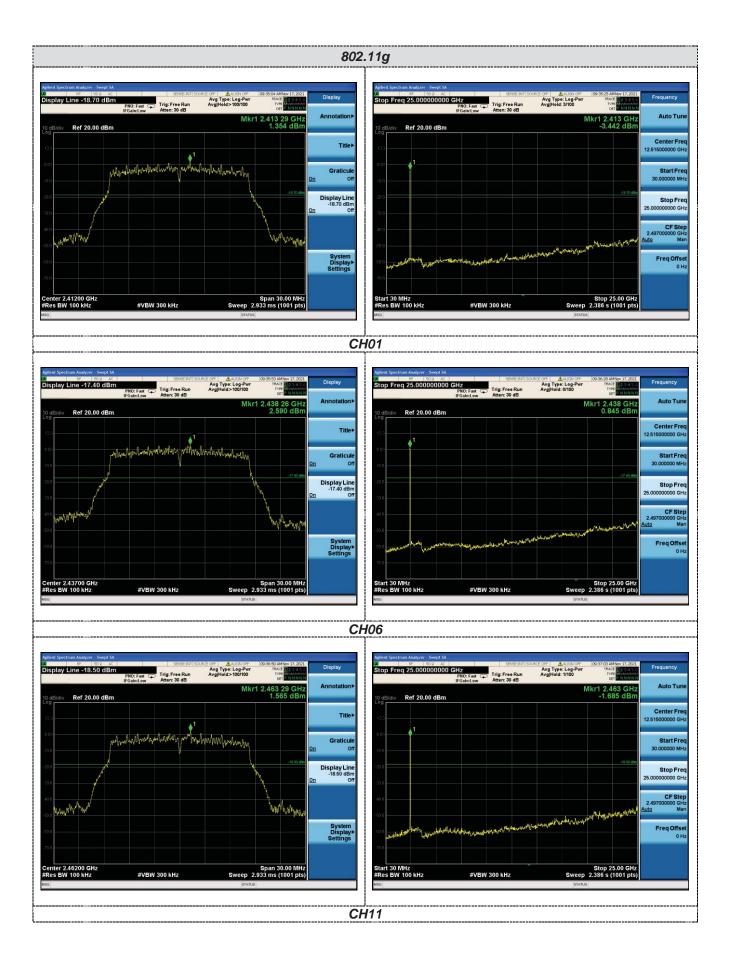


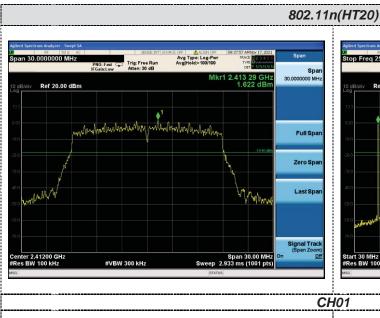
CH06





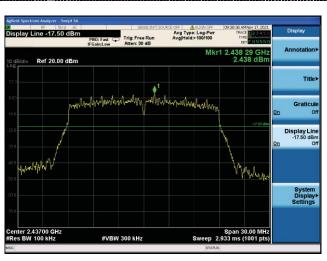
CH11







CH01





CH06

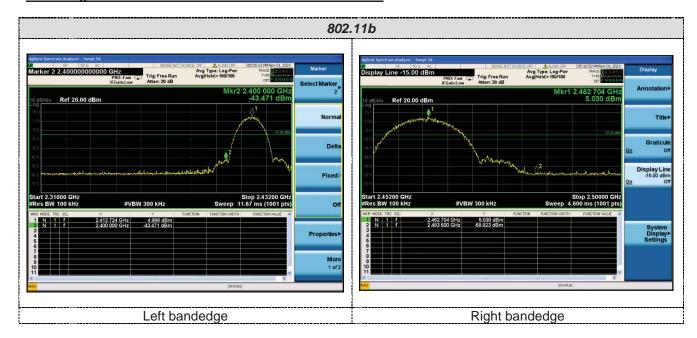
CH11



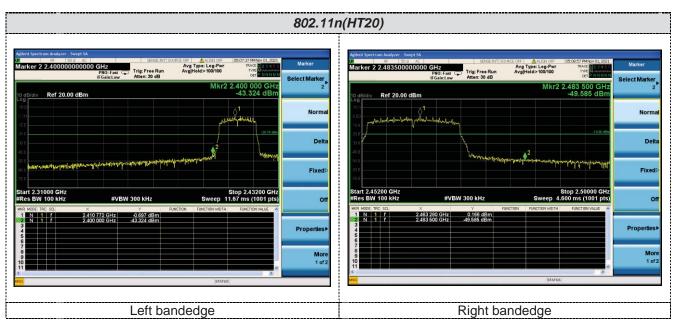


Report No.: MTWC21110851-R2 Page 32 of 35

Band-edge Measurements for RF Conducted Emissions:







Report No.: MTWC21110851-R2 Page 33 of 35

5.7 Antenna Requirement

Standard Applicable

For intentional device, according to FCC 47 CFR 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

FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1) (I):

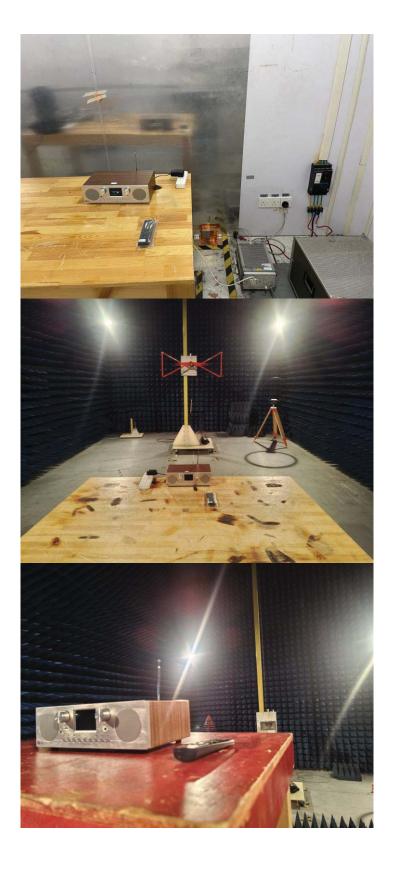
(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6dBi.

Test Result:

The directional gains of antenna used for transmitting is 0 dBi, and the antenna is an internal antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details.

Results: Compliance.

6 Test Setup Photos of the EUT



Report No.: MTWC21110851-R2 Page 35 of 35

7 Photos of the EUT

| See related | photo | report. | |
|-------------|-------|---------|--|
|-------------|-------|---------|--|