FCC TEST REPORT

For

Medix-Care UK Ltd

Smart Terminal

Test Model: MX15

Additional Model No.: MX15 Lite,MX15 Pro,MX21,MX21 Pro,MX27,MX10-T, MX10-S

Prepared for	:	Medix-Care UK Ltd
Address	:	5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ
Prepared by	:	Guangzhou LCS Compliance Testing Laboratory Ltd.
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Date of receipt of test sample	:	August 07, 2026
Number of tested samples	:	2
Sample No.	:	C260805014-1, C260805014-2
Serial number	:	Prototype
Date of Test	:	August 07, 2026 ~ August 26, 2026
Date of Report	:	August 27, 2026

FCC TEST REPORT
FCC CFR 47 PART 15 E (15.407)

Report Reference No. ..... :		**LCSC08056011EE**
Date of Issue.....	:	August 27, 2026
Testing Laboratory Name ..... :		**Guangzhou LCS Compliance Testing Laboratory Ltd.**
Address.....	:	No.44-1, Qianfeng North Road, Shiqi, Panyu District, Guangzhou, Guangdong, China
Testing Location/ Procedure.....	:	Full application of Harmonised standards ■ Partial application of Harmonised standards □ Other standard testing method □
Applicant's Name..... :		**Medix-Care UK Ltd**
Address.....	:	5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ
Test Specification		
Standard	:	FCC CFR 47 PART 15 E (15.407)
TRF Originator	:	Guangzhou LCS Compliance Testing Laboratory Ltd.
Master TRF.....	:	Dated 2011-03

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EUT Description..... :		**Smart Terminal**
Trade Mark.....	:	N/A
Test Model	:	MX15
Ratings.....	:	Please Refer to Page 6
Result	:	**Pass**

Compiled by:	**Supervised by:**	**Approved by:**
Lifeng Le / Administrator	Justin Zhu/ Technique Director	Gavin Liang/ Manager

FCC -- TEST REPORT

Test Report No. : **LCSC08056011EE**	August 27, 2026 Date of issue

EUT.....	: Smart Terminal
Test Model.....	: MX15
Applicant.....	**: Medix-Care UK Ltd**
Address.....	: 5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ
Telephone.....	: /
Fax.....	: /
Manufacturer.....	**: Medix-Care UK Ltd**
Address.....	: 5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ
Telephone.....	: /
Fax.....	: /
Factory.....	**: Medix-Care UK Ltd**
Address.....	: 5 Admirals Hard, Plymouth, Devon, UK, PL1 3RJ
Telephone.....	: /
Fax.....	: /

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.

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Revision History

Report Version	Issue Date	Revision Content	Revised By
000	August 27, 2026	Initial Issue	---

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TABLE OF CONTENTS

1. GENERAL INFORMATION 6
1.1. DESCRIPTION OF DEVICE (EUT) 6
1.2. SUPPORT EQUIPMENT LIST 7
1.3 EXTERNAL I/O CABLE 7
1.4. DESCRIPTION OF TEST FACILITY 7
1.5. STATEMENT OF THE MEASUREMENT UNCERTAINTY 7
1.6. MEASUREMENT UNCERTAINTY 8
1.7. DESCRIPTION OF TEST MODES 8
1.8. CHANNEL LIST AND FREQUENCY 9
2. TEST METHODOLOGY 10
2.1. EUT CONFIGURATION 10
2.2. EUT EXERCISE 10
2.3. GENERAL TEST PROCEDURES 10
2.4. TEST SAMPLE 10
3. SYSTEM TEST CONFIGURATION 11
3.1. JUSTIFICATION 11
3.2. EUT EXERCISE SOFTWARE 11
3.3. SPECIAL ACCESSORIES 11
3.4. BLOCK DIAGRAM/SCHEMATICS 11
3.5. EQUIPMENT MODIFICATIONS 11
3.6. TEST SETUP 11
4. SUMMARY OF TEST RESULTS 12
5. TEST RESULT 13
5.1. 6DB OCCUPIED BANDWIDTH MEASUREMENT 13
5.2. 99% OCCUPIED BANDWIDTH MEASUREMENT 14
5.3. MAXIMUM CONDUCTED OUTPUT POWER MEASUREMENT 15
5.4. POWER SPECTRAL DENSITY MEASUREMENT 17
5.5. EMISSIONS IN RESTRICTED BANDS 19
5.6. FREQUENCY STABILITY 21
5.7. ON TIME AND DUTY CYCLE 22
5.8. RADIATED EMISSIONS MEASUREMENT 23
5.9. POWER LINE CONDUCTED EMISSIONS 35
5.10. ANTENNA REQUIREMENTS 38
6. LIST OF MEASURING EQUIPMENTS 39
7. TEST SETUP PHOTOGRAPHS OF EUT 40
8. EXTERIOR PHOTOGRAPHS OF THE EUT 40
9. INTERIOR PHOTOGRAPHS OF THE EUT 40

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1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: Smart Terminal
Test Model	: MX15
Additional Model No.	: MX15 Lite, MX15 Pro, MX21, MX21 Pro, MX27, MX10-T, MX10-S
Model Declaration	: PCB board, structure and internal of these model(s) are the same, So no additional models were tested
Ratings	: For EUT: Input:12.0V⎓5.0A For Adapter Input: 100-240V~, 50/60Hz, 1.5A MAX USB-C Output: 12.0V⎓5.0A, 60.0W
Hardware Version	: MX15-MX21-MX27_V02
Software Version	: V1.2.17.3.w
Bluetooth	:
Frequency Range	: 2402MHz~2480MHz
Channel Number	: 79 channels for Bluetooth V5.0(DSS) 40 channels for Bluetooth V5.0 (DTS)
Channel Spacing	: 1MHz for Bluetooth V5.0 (DSS) 2MHz for Bluetooth V5.0 (DTS)
Modulation Type	: GFSK, π/4-DQPSK, 8-DPSK for Bluetooth V5.0(DSS) GFSK for Bluetooth V5.0 (DTS)
Bluetooth Version	: V5.0
Antenna Description	: FPC Antenna, 5.01dBi(Max.)
WIFI(2.4G Band)	:
Frequency Range	: 2412MHz~2462MHz
Channel Spacing	: 5MHz
Channel Number	: 11 Channels for 20MHz bandwidth (2412~2462MHz) 7 Channels for 40MHz bandwidth (2422~2452MHz)
Modulation Type	: IEEE 802.11b: DSSS (CCK, DQPSK, DBPSK) IEEE 802.11g: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 5.01dBi(Max.)
WIFI(5.2G Band)	:
Frequency Range	: 5180MHz~5240MHz
Channel Number	: 4 Channels for 20MHz bandwidth(5180MHz~5240MHz) 2 channels for 40MHz bandwidth(5190MHz~5230MHz) 1 channels for 80MHz bandwidth(5210MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 2.47dBi(Max.)
WIFI(5.8G Band)	:
Frequency Range	: 5745MHz~5825MHz
Channel Number	: 5 channels for 20MHz bandwidth(5745MHz~5825MHz) 2 channels for 40MHz bandwidth(5755MHz~5795MHz) 1 channels for 80MHz bandwidth(5775MHz)
Modulation Type	: IEEE 802.11a: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11n: OFDM (64QAM, 16QAM, QPSK, BPSK) IEEE 802.11ac: OFDM (256QAM, 64QAM, 16QAM, QPSK, BPSK)
Antenna Description	: FPC Antenna, 2.69dBi(Max.)
NFC	:
Operating Frequency	: 13.56MHz
Modulation Type	: ASK
Antenna Description	: Internal Antenna

Note: For a more detailed antenna description, please refer to the antenna specifications or the antenna report provided by the customer.

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1.2. Support equipment List

Manufacturer	Description	Model	Serial Number	Certificate
SHENZHEN FUJIA APPLIANCE CO., LTD.	SWITCHING ADAPTOR	FJ-SW30061205000D	--	FCC

1.3 External I/O Cable

I/O Port Description	Quantity	Cable
ID /IC Card Slot	1	N/A
Earphone Jack Port	2	N/A
Handset Jack Port	1	N/A
USB Port	1	N/A
DC IN Port	1	N/A
RJ45 Port	1	N/A
Internal Microphones Port	1	N/A
Type C(Service) Port	1	N/A

1.4. Description of Test Facility

Site Description

EMC Lab. : CNAS Registration Number is L11555
A2LA Certificate Number: 5099.01
FCC Designation Number is CN1379
Test Firm Registration Number: 729882

The 3m-Semi anechoic test site fulfils CISPR 16-1-4 according to ANSI C63.10-2020 and CISPR 16-1-4:2010 SVSWR requirement for radiated emission above 1GHz.

1.5. 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 LCS 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.

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1.6. Measurement Uncertainty

Test Item		Frequency Range	Uncertainty	Note
Radiation Uncertainty	:	9KHz~30MHz	±3.10dB	(1)
		30MHz~200MHz	±2.96dB	(1)
		200MHz~1000MHz	±3.10dB	(1)
		1GHz~26.5GHz	±3.80dB	(1)
		26.5GHz~40GHz	±3.90dB	(1)
Conduction Uncertainty	:	150kHz~30MHz	±1.63dB	(1)
Power disturbance	:	30MHz~300MHz	±1.60dB	(1)
Output power	:	1GHz-40GHz	±0.57dB	(1)
Power Spectral Density	:	1GHz-40GHz	±1.2dB	(1)
Occupied Channel Bandwidth	:	1GHz-40GHz	±5%	(1)
Conducted RF Spurious Emission	:	9kHz-40GHz	±1.80dB	(1)
Emissions in Restricted Bands	:	1GHz-40GHz	±2.47dB	(1)
Frequency Stability	:	1GHz-40GHz	±25Hz	(1)

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

1.7. Description of Test Modes

The EUT has been tested under operating condition.

This test was performed with EUT in X, Y, Z position and the worst case was found when EUT in X position.

Worst-case mode and channel used for 150 KHz-30 MHz power line conducted emissions was determined to be IEEE 802.11ac VHT20 mode (High Channel)

Worst-case mode and channel used for 9 KHz-1000 MHz radiated emissions was determined to be IEEE 802.11ac VHT20 mode (High Channel)

Pre-test AC conducted emission at both voltage AC 120V/60Hz and AC 240V/50Hz, recorded worst case

at AC 120V/60Hz.

Worst-Case data rates were utilized from preliminary testing of the Chipset, worst-case data rates used during the testing are as follows:

IEEE 802.11a Mode: 6 Mbps, OFDM.

IEEE 802.11n HT20 Mode: MCS0, OFDM.

IEEE 802.11n HT40 Mode: MCS0, OFDM.

IEEE 802.11ac VHT20 Mode: MCS0

IEEE 802.11ac VHT40 Mode: MCS0, OFDM.

IEEE 802.11ac VHT80 Mode: MCS0, OFDM.

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1.8. Channel List and Frequency

Frequency Band	Channel No.	Frequency (MHz)	Channel No.	Frequency (MHz)
5745~5825MHz	149	5745	155	5775
	151	5755	159	5795
	153	5765	161	5805
	157	5785	165	5825
For IEEE 802.11a/n HT20/ac VHT20, Channel 149, 157 and 165 were tested. For IEEE 802.11n HT40/ac VHT40, Channel 151 and 159 were tested. For IEEE 802.11ac VHT80, Channel 155 was tested.				

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2. TEST METHODOLOGY

All measurements contained in this report were conducted with ANSI C63.10-2020, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

The radiated testing was performed at an antenna-to-EUT distance of 3 meters. All radiated and conducted emissions measurement was performed at Guangzhou LCS Compliance Testing Laboratory Ltd.

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

2.2. EUT Exercise

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

According to FCC's request, Test Procedure 789033 D02 General U-NII Test Procedures New Rules v02r01 and KDB 662911 D01 Multiple Transmitter Output v02r01 is required to be used for this kind of FCC 15.407 UII device.

According to its specifications, the EUT must comply with the requirements of the Section 15.203, 15.205, 15.207, 15.209 and 15.407 under the FCC Rules Part 15 Subpart E

2.3. General Test Procedures

2.3.1 Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 6.2.1 of ANSI C63.10-2020 Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using Quasi-peak and average detector modes.

2.3.2 Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane below 1GHz and 1.5 m above ground plane above 1GHz. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 6.3 of ANSI C63.10-2020.

2.4. Test Sample

The application provides 2 samples to meet requirement;

Sample Number	Description
Sample 1(C260805014-1)	Engineer sample – continuous transmit
Sample 2(C260805014-2)	Normal sample – Intermittent transmit

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3. SYSTEM TEST CONFIGURATION

3.1. Justification

The system was configured for testing in a continuous transmits condition.

3.2. EUT Exercise Software

The system was configured for testing in a continuous transmits condition and change test channels by software provided by application.

3.3. Special Accessories

N/A.

3.4. Block Diagram/Schematics

Please refer to the related document

3.5. Equipment Modifications

Guangzhou LCS Compliance Testing Laboratory Ltd. has not done any modification on the EUT.

3.6. Test Setup

Please refer to the test setup photo.

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4. SUMMARY OF TEST RESULTS

Applied Standard: FCC Part 15 Subpart E			
FCC Rules	Description of Test	Result	Remark
§15.407(e)	6dB Bandwidth	Compliant	Appendix E.1
§15.407(a)	Maximum Conducted Output Power	Compliant	Appendix E.2
§15.407(a)	Power Spectral Density	Compliant	Appendix E.3
§15.209, §15.407(b)	Emissions in Restricted Bands	Compliant	Appendix E.4
§15.407(g)	Frequency Stability	Compliant	Appendix E.5
/	On Time and Duty Cycle	/	Only reported; Appendix E.6
§15.209, §15.407(b)	Radiated Emissions	Compliant	Note 1
§15.207(a)	AC Conducted Emissions	Compliant	Note 1
§15.203	Antenna Requirements	Compliant	Note 1
§15.407 §2.1091	RF Exposure	Compliant	Note 2

Remark:
1. Note 1 – Test results inside test report;
2. Note 2 – Test results in other test report (RF Exposure Evaluation);

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5. TEST RESULT

5.1. 6dB Occupied Bandwidth Measurement

5.1.1. Standard Applicable

Within the 5.725-5.85 GHz band, the minimum 6 dB bandwidth of U-NII devices shall be at least 500 kHz.

5.1.2. Measuring Instruments and Setting

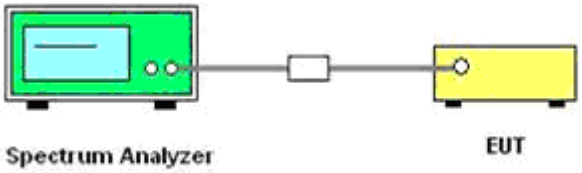
Please refer to equipment list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span	> 26dB Bandwidth
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.1.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. The resolution bandwidth of 100 KHz and the video bandwidth of 300 KHz were used.
3. Measured the spectrum width with power higher than 6dB below carrier.

5.1.4. Test Setup Layout



5.1.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.1.6. Test Result of 6dB Occupied Bandwidth

PASS.

Please refer to Appendix E.1

Remark:

1. *Measured 6dB bandwidth 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 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20, IEEE 802.11ac VHT40 and IEEE 802.11ac VHT80;*

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5.2. 99% Occupied Bandwidth Measurement

5.2.1. Standard Applicable

According to §2.1049: The occupied bandwidth, that is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission shall be measured under the following conditions as applicable.

5.2.2. Measuring Instruments and Setting

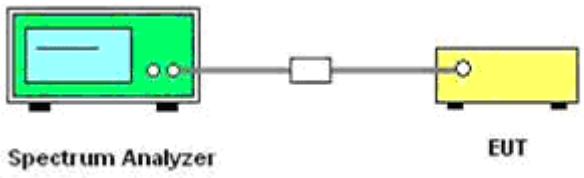
Please refer to equipment list in this report. The following table is the setting of the Spectrum Analyzer.

Spectrum Parameter	Setting
Attenuation	Auto
Span Frequency	> RBW
Detector	Peak
Trace	Max Hold
Sweep Time	Auto

5.2.3. Test Procedures

1. The transmitter output (antenna port) was connected to the spectrum analyzer in peak hold mode.
2. Set RBW = 1%~5% OBW; VBW≥3*RBW;
3. Measured the 99% occupied bandwidth by related function of the spectrum analyzer.

5.2.4. Test Setup Layout



5.2.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.2.6. Test Result of 99% Occupied Spectrum Bandwidth

Not Applicable

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5.3. Maximum Conducted Output Power Measurement

5.3.1. Standard Applicable

For 5725~5850MHz

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

5.3.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the power meter.

5.3.3. Test Procedures

The transmitter output (antenna port) was connected to the power meter.

According to KDB789033 D02 General UNII Test Procedures New Rules v02r01 Section 3 (a) Method PM (Measurement using an RF average power meter):

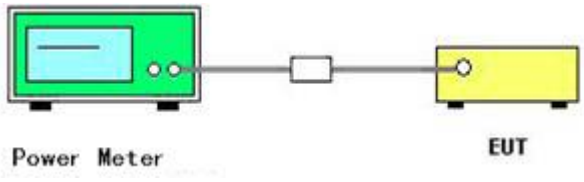
(i) Measurements may be performed using a wideband RF power meter with a thermocouple detector or equivalent if all of the conditions listed below are satisfied.

- The EUT is configured to transmit continuously or to transmit with a constant duty cycle.
- At all times when the EUT is transmitting, it must be transmitting at its maximum power control level.
- The integration period of the power meter exceeds the repetition period of the transmitted signal by at least a factor of five.

(ii) If the transmitter does not transmit continuously, measure the duty cycle, x, of the transmitter output signal as described in section II.B.

(iii) Measure the average power of the transmitter. This measurement is an average over both the on and off periods of the transmitter.

5.3.4. Test Setup Layout



5.3.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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5.3.6. Test Result of Maximum Conducted Output Power

PASS

Please refer to Appendix E.2

Remark:

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 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20, IEEE 802.11ac VHT40 and IEEE 802.11ac VHT80;*
   Report conducted power = Measured conducted average power + Duty Cycle factor;

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5.4. Power Spectral Density Measurement

5.4.1. Standard Applicable

For 5725~5850MHz

For the band 5.725-5.85 GHz, the maximum conducted output power over the frequency band of operation shall not exceed 1 W. In addition, the maximum power spectral density shall not exceed 30 dBm in any 500-kHz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the maximum power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi. However, fixed point-to-point U-NII devices operating in this band may employ transmitting antennas with directional gain greater than 6 dBi without any corresponding reduction in transmitter conducted power. Fixed, point-to-point operations exclude the use of point-to-multipoint systems, omnidirectional applications, and multiple collocated transmitters transmitting the same information. The operator of the U-NII device, or if the equipment is professionally installed, the installer, is responsible for ensuring that systems employing high gain directional antennas are used exclusively for fixed, point-to-point operations.

5.4.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of Spectrum Analyzer.

5.4.3. Test Procedures

1). The transmitter was connected directly to a Spectrum Analyzer through a directional couple.
2). The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
3). Set the RBW = 510 kHz
4). Set the VBW ≥ 3*RBW
5). Span=Encompass the entire emissions bandwidth (EBW) of the signal
6). Detector = RMS.
7). Sweep time = auto couple.
8). Trace mode = max hold.
9). Allow trace to fully stabilize.
10). If measurement bandwidth of Maximum PSD is specified in 500 kHz, add 10 log (500 kHz/RBW) to the measured result, whereas RBW (<500 kHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement.
11). If measurement bandwidth of Maximum PSD is specified in 1 MHz, add 10 log (1MHz/RBW) to the measured result, whereas RBW (< 1 MHz) is the reduced resolution bandwidth of spectrum analyzer set during measurement.
12). Care must be taken to ensure that the measurements are performed during a period of continuous transmission or are corrected upward for duty cycle.

5.4.4. Test Setup Layout



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5.4.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.4.6. Test Result of Power Spectral Density

PASS.

Please refer to Appendix E.3

Remark:

1. *Measured 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 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20, IEEE 802.11ac VHT40 and IEEE 802.11ac VHT80;*
4. *Report conducted PSD = measured conducted PSD + Duty Cycle factor + RBW factor;*
5. *RBW factor = 10 log (500 KHz / 510 KHz) = -0.086 dB;*

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5.5. Emissions in Restricted Bands

5.5.1 Limit

According to ξ15.407 (b) Undesirable emission limits. Except as shown in paragraph (b) (7) of this section, the maximum emissions outside of the frequency bands of operation shall be attenuated in accordance with the following limits:

(a) For transmitters operating in the 5.15-5.25 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(b) For transmitters operating in the 5.25-5.35 GHz band: All emissions outside of the 5.15-5.35 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(c) For transmitters operating in the 5.47-5.725 GHz band: All emissions outside of the 5.47-5.725 GHz band shall not exceed an e.i.r.p. of −27 dBm/MHz.

(d) For transmitters operating in the 5.725-5.85 GHz band:

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

(ii) Devices certified before March 2, 2017 with antenna gain greater than 10 dBi may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease by March 2, 2018. Devices certified before March 2, 2018 with antenna gain of 10 dBi or less may demonstrate compliance with the emission limits in §15.247(d), but manufacturing, marketing and importing of devices certified under this alternative must cease before March 2, 2020.

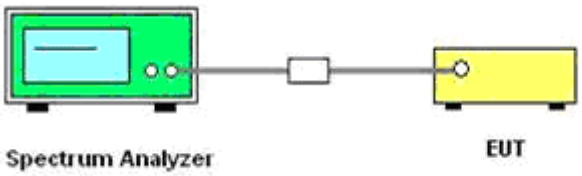
(e) The emission measurements shall be performed using a minimum resolution bandwidth of 1 MHz. A lower resolution bandwidth may be employed near the band edge, when necessary, provided the measured energy is integrated to show the total power over 1 MHz.

(f) Unwanted emissions below 1 GHz must comply with the general field strength limits set forth in §15.209. Further, any U-NII devices using an AC power line are required to comply also with the conducted limits set forth in §15.207.

(g) The provisions of §15.205 apply to intentional radiators operating under this section.

(h) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the upper and lower frequency band edges as the design of the equipment permits.

5.5.2 Test Configuration



5.5.3 Test Procedure

1. The power was monitored at the coupler port with a Spectrum Analyzer. The power level was set to the maximum level.
2. Set the RBW = 1MHz.
3. Set the VBW ≥ 3MHz
4. Number of points in sweep ≥ 2 × span / RBW. (This ensures that bin-to-bin spacing is ≤ RBW/2, so that narrowband signals are not lost between frequency bins.)
5. Manually set sweep time ≥ 10 × (number of points in sweep) × (total on/off period of the transmitted signal).
6. Set detector = power averaging (rms).
7. Sweep time = auto couple.
8. Trace mode = max hold.
9. Allow trace to fully stabilize.

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5.5.4 Test Results

PASS

Please refer to Appendix E.4

Remark:

1. *Measured unwanted emission 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 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20, IEEE 802.11n HT40, IEEE 802.11ac VHT20, IEEE 802.11ac VHT40 and IEEE 802.11ac VHT80;*
4. *E.I.R.P = Conducted power + Antenna Gain;*
5. *EIRP calculation. A value representative of an upper bound on out-of-band antenna gain (in dBi) shall be added to the measured antenna-port conducted emission power to compute EIRP within the specified measurement bandwidth. (For emissions in the restricted bands, additional calculations are required to convert EIRP to field strength at the specified distance.) The upper bound on antenna gain for a device with a single RF output shall be selected as the maximum in-band gain of the antenna across all operating bands or 2 dBi, whichever is greater.3 However, for devices that operate in multiple bands using the same transmit antenna, the highest gain of the antenna within the operating band nearest to the out-of-band frequency being measured may be used in lieu of the overall highest gain when measuring emissions at frequencies within 20% of the absolute frequency at the nearest edge of that band, but in no case shall a value less than 2 dBi be selected;*
6. *Over limit = EIRP – Limit;*

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5.6. Frequency Stability

5.6.1 Standard Applicable

According to FCC §15.407(g) “Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual.”

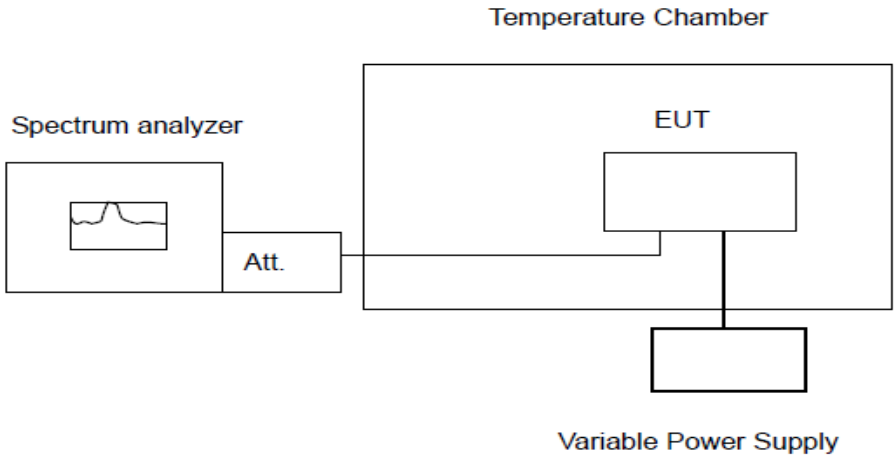
According to FCC §2.1055(a) “The frequency stability shall be measured with variation of ambient temperature as follows:”

(1) From −30° to + 50° centigrade for all equipment except that specified in paragraphs (a) (2) and (3) of this section.

(2) From −20° to + 50° centigrade for equipment to be licensed for use in the Maritime Services under part 80 of this chapter, except for Class A, B, and S Emergency Position Indicating Radiobeacons (EPIRBS), and equipment to be licensed for use above 952 MHz at operational fixed stations in all services, stations in the Local Television Transmission Service and Point-to-Point Microwave Radio Service under part 21 of this chapter, equipment licensed for use aboard aircraft in the Aviation Services under part 87 of this chapter, and equipment authorized for use in the Family Radio Service under part 95 of this chapter.

(3) From 0° to + 50° centigrade for equipment to be licensed for use in the Radio Broadcast Services under part 73 of this chapter.

5.6.2 Test Configuration



5.6.3 Test Procedure

The equipment under test was connected to an external AC or DC power supply and input rated voltage. RF output was connected to a frequency counter or spectrum anzlyer via feed through attenators. The EUT was placed inside the temperature chamber. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 20 degree operating frequency as reference frequency. Turn EUT off and set the chamber temperature to -30 degree. After the temperature stabilized for approximately 30 minutes recorded the frequency. Repeat step measure with 10 degree increased per stage until the highest temperature of +50 degree reached.

5.6.4 Test Results

PASS

Please refer to Appendix E.5

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5.7. On Time and Duty Cycle

5.7.1. Standard Applicable

None; for reporting purpose only.

5.7.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of the spectrum analyzer.

5.7.3. Test Procedures

1. Set the Centre frequency of the spectrum analyzer to the transmitting frequency;
2. Set the span=0MHz, RBW=8MHz, VBW=8.0MHz, Sweep time=Auto;
3. Detector = peak;
4. Trace mode = Single hold.

5.7.4. Test Setup Layout



5.7.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

5.7.6. Test result

For reporting purpose only.

Please refer to Appendix E.6

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5.8. Radiated Emissions Measurement

5.8.1. Standard Applicable

15.205 (a) Except as shown in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
\1\ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293.	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(\2\)
13.36-13.41			

\1\ Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz.
\2\ Above 38.6

For transmitters operating in the 5.725-5.85 GHz band:

All emissions shall be limited to a level of −27 dBm/MHz(68.2dBuV/m at 3m) at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz(105.2dBuV/m at 3m) at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6(110.8dBuV/m at 3m) dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz(122.2dBuV/m at 3m) at the band edge.

In addition, In case the emission fall within the restricted band specified on 15.205(a), then the 15.209(a) limit in the table below has to be followed.

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

5.8.2. Measuring Instruments and Setting

Please refer to equipment list in this report. The following table is the setting of spectrum analyzer and receiver.

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	1000 MHz
Stop Frequency	10^{th} carrier harmonic
RB / VB (Emission in restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average
RB / VB (Emission in non-restricted band)	1MHz / 1MHz for Peak, 1 MHz / 1/B kHz for Average

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Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB/VB 200Hz/1KHz for QP/AVG
Start ~ Stop Frequency	150kHz~30MHz / RB/VB 9kHz/30KHz for QP/AVG
Start ~ Stop Frequency	30MHz~1000MHz / RB/VB 120kHz/1MHz for QP

5.8.3. Test Procedures

1) Sequence of testing 9 kHz to 30 MHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions.

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna height is 1.0 meter.

--- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions

Final measurement:

--- Identified emissions during the premeasurement the software maximizes by rotating the turntable position (0° to 360°) and by rotating the elevation axes (0° to 360°).

--- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QPK detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

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2) Sequence of testing 30 MHz to 1 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height changes from 1 to 3 meter.

--- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter.

--- The final measurement will be done with QP detector with an EMI receiver.

--- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

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3) Sequence of testing 1 GHz to 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 3 meter.

--- The EUT was set into operation.

Premeasurement:

--- The turntable rotates from 0° to 315° using 45° steps.

--- The antenna is polarized vertical and horizontal.

--- The antenna height scan range is 1 meter to 2.5 meter.

--- At each turntable position and antenna polarization the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

--- The final measurement will be performed with minimum the six highest peaks.

--- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable position (± 45°) and antenna movement between 1 and 4 meter. This procedure is repeated for both antenna polarizations.

--- The final measurement will be done in the position (turntable, EUT-table and antenna polarization) causing the highest emissions with Peak and Average detector.

--- The final levels, frequency, measuring time, bandwidth, turntable position, EUT-table position, antenna polarization, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

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4) Sequence of testing above 18 GHz

Setup:

--- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.

--- If the EUT is a tabletop system, a rotatable table with 1.5 m height is used.

--- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

--- Auxiliary equipment and cables were positioned to simulate normal operation conditions

--- The AC power port of the EUT (if available) is connected to a power outlet below the turntable.

--- The measurement distance is 1 meter.

--- The EUT was set into operation.

Premeasurement:

--- The antenna is moved spherical over the EUT in different polarizations of the antenna.

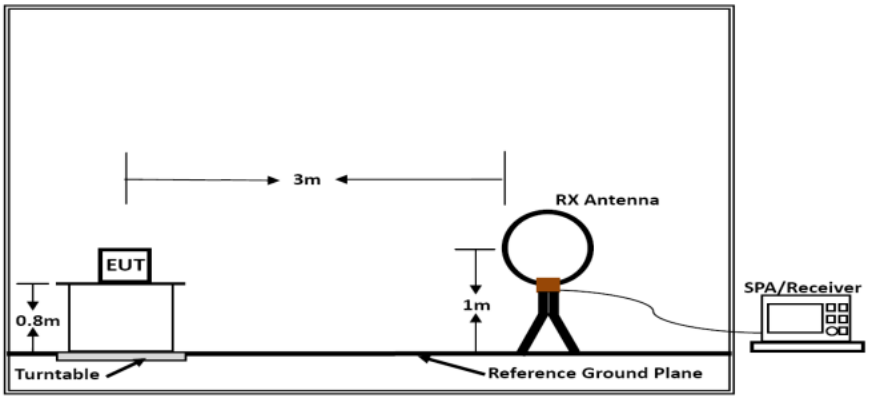
Final measurement:

--- The final measurement will be performed at the position and antenna orientation for all detected emissions that were found during the premeasurements with Peak and Average detector.

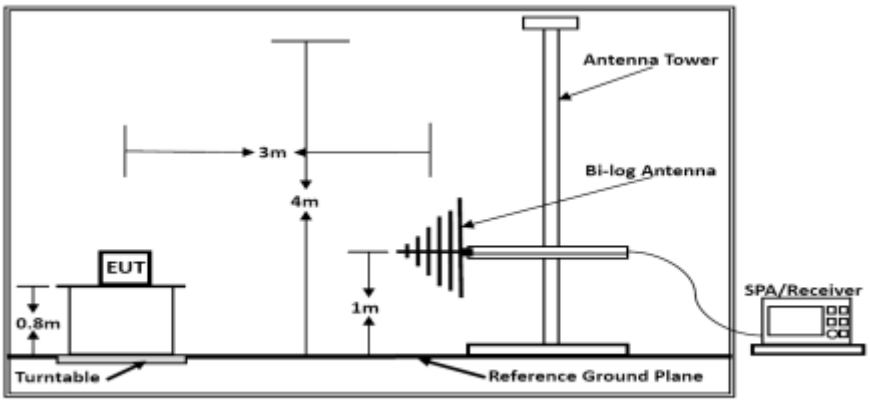
--- The final levels, frequency, measuring time, bandwidth, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement and the limit will be stored.

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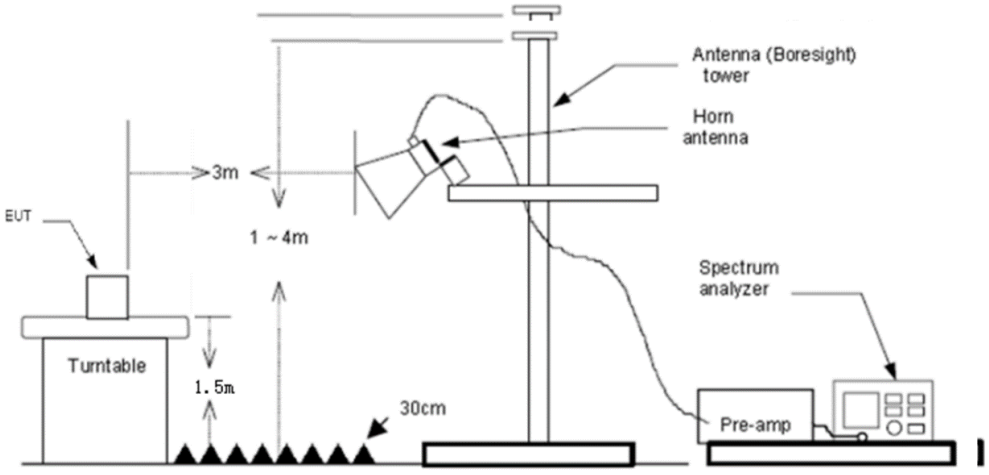
5.8.4. Test Setup Layout



Below 30MHz



Below 1GHz



Above 18 GHz shall be extrapolated to the specified distance using an extrapolation factor of 20 dB/decade form 3m to 1m.

5.8.5. EUT Operation during Test

The EUT was programmed to be in continuously transmitting mode.

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5.8.6. 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 (dBuV/m) = RA (dBuV) + AF (dB/m) + CL (dB) – AG (dB)

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

5.8.7. Results of Radiated Emissions (9 KHz~30 MHz)

Temperature	24.3℃	Humidity	54.2%
Test Engineer	Zhang hai	Configurations	IEEE 802.11a/n/ac

Freq. (MHz)	Level (dBuV)	Over Limit (dB)	Over Limit (dB)	Remark
-	-	-	-	See Note

Note:

The amplitude of spurious emissions which are attenuated by more than 20 dB below the permissible value has no need to be reported.

Distance extrapolation factor = 40 log (specific distance / test distance) (dB);
Limit line = specific limits (dBuV) + distance extrapolation factor.

5.8.9. Results of Radiated Emissions (30 MHz~1 GHz)

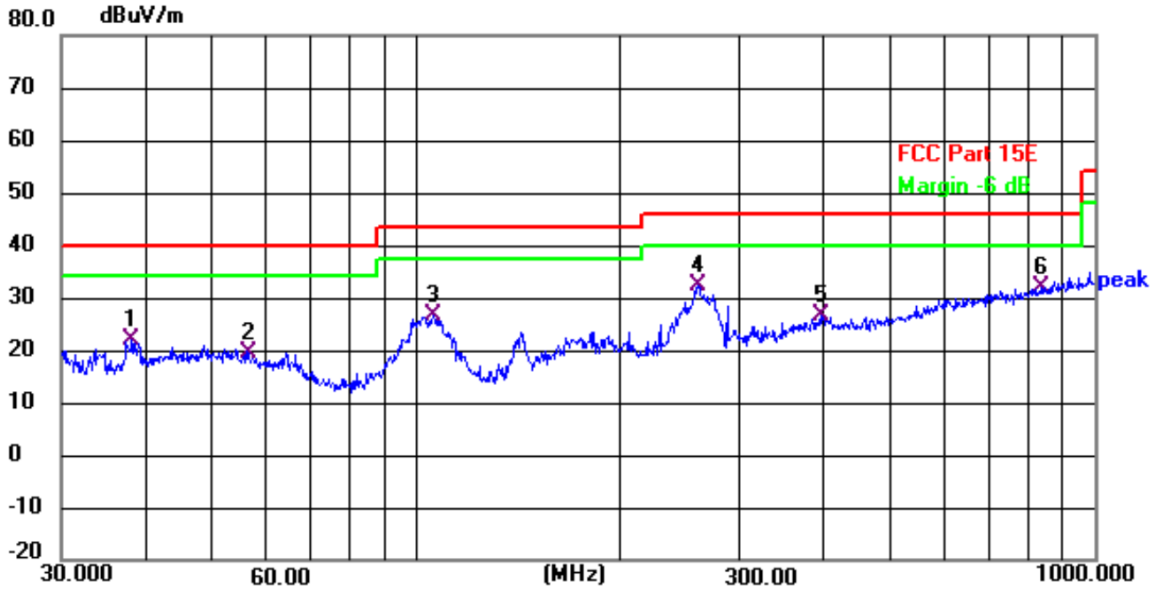
Temperature	24.3℃	Humidity	54.2%
Test Engineer	Zhang hai	Configurations	IEEE 802.11a/n/ac

PASS.

The test data please refer to following page.

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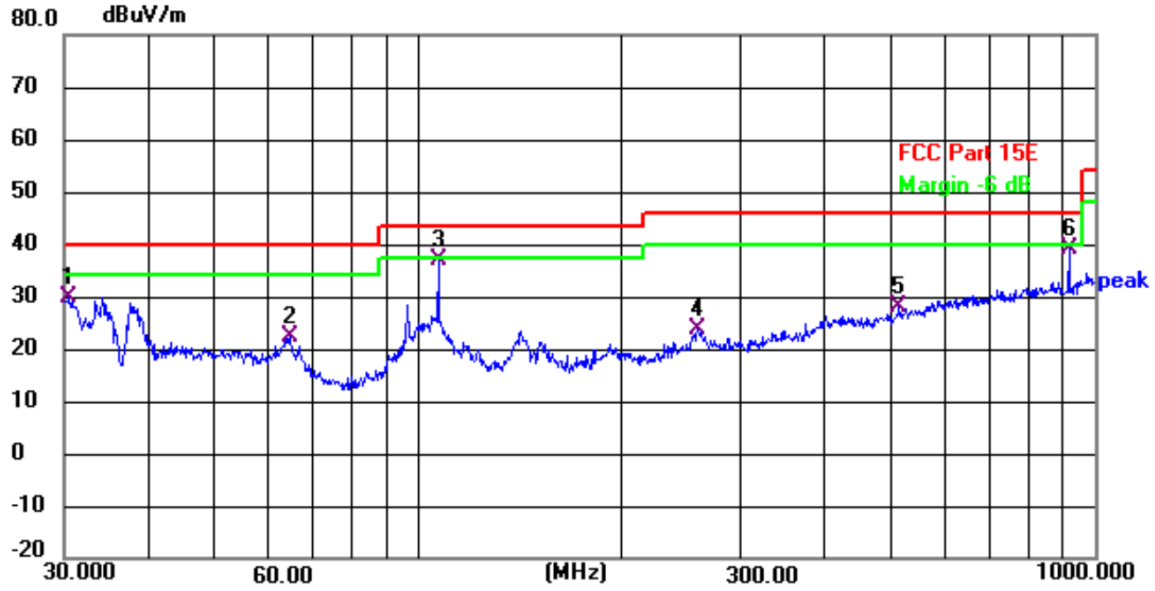
Horizontal



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		38.0782	2.77	19.29	22.06	40.00	-17.94	QP	
2		56.5930	-0.38	19.91	19.53	40.00	-20.47	QP	
3		106.0126	7.47	19.24	26.71	43.50	-16.79	QP	
4	*	260.1444	11.21	20.96	32.17	46.00	-13.83	QP	
5		396.2415	2.16	24.39	26.55	46.00	-19.45	QP	
6		836.2443	0.46	31.64	32.10	46.00	-13.90	QP	

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Vertical



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	Comment
1		30.5306	12.18	17.61	29.79	40.00	-10.21	QP	
2		64.6594	3.46	18.70	22.16	40.00	-17.84	QP	
3	*	107.1337	17.92	19.15	37.07	43.50	-6.43	QP	
4		259.2338	2.76	20.94	23.70	46.00	-22.30	QP	
5		513.6331	1.20	26.97	28.17	46.00	-17.83	QP	
6		916.0686	6.32	32.88	39.20	46.00	-6.80	QP	

Note:

1). Pre-scan all modes and recorded the worst case results in this report IEEE 802.11ac VHT20 mode (High Channel)
2). Emission level (dBuV/m) = 20 log Emission level (uV/m).
3). Level = Reading + Factor, Margin = Level – Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor

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5.8.10. Results for Radiated Emissions (1 – 40 GHz)

Note: All the modes have been tested and recorded worst mode in the report.

IEEE 802.11a

Channel 149 / 5745 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
17.235	50.70	34.22	36.83	10.53	58.62	68.20	-9.58	Peak	Horizontal
17.235	38.38	34.22	36.83	10.53	46.30	54.00	-7.70	Average	Horizontal
17.235	48.67	33.83	36.83	10.53	56.20	68.20	-12.00	Peak	Vertical
17.235	37.95	33.83	36.83	10.53	45.48	54.00	-8.52	Average	Vertical

Channel 157 / 5785 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
17.355	49.22	34.22	36.83	10.53	57.14	68.20	-11.06	Peak	Horizontal
17.355	35.32	34.22	36.83	10.53	43.24	54.00	-10.76	Average	Horizontal
17.355	48.82	33.83	36.83	10.53	56.35	68.20	-11.85	Peak	Vertical
17.355	36.93	33.83	36.83	10.53	44.46	54.00	-9.54	Average	Vertical

Channel 163 / 5825 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
17.475	40.19	34.22	36.83	10.53	48.11	68.20	-20.09	Peak	Horizontal
17.475	30.57	34.22	36.83	10.53	38.49	54.00	-15.51	Average	Horizontal
17.475	50.06	33.83	36.83	10.53	57.59	68.20	-10.61	Peak	Vertical
17.475	29.78	33.83	36.83	10.53	37.31	54.00	-16.69	Average	Vertical

IEEE 802.11n HT20

Channel 149 / 5745 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
17.235	44.25	34.22	36.83	10.53	52.17	68.20	-16.03	Peak	Horizontal
17.235	34.72	34.22	36.83	10.53	42.64	54.00	-11.36	Average	Horizontal
17.235	42.46	33.83	36.83	10.53	49.99	68.20	-18.21	Peak	Vertical
17.235	30.37	33.83	36.83	10.53	37.90	54.00	-16.10	Average	Vertical

Channel 157 / 5785 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
17.355	49.61	34.22	36.83	10.53	57.53	68.20	-10.67	Peak	Horizontal
17.355	29.10	34.22	36.83	10.53	37.02	54.00	-16.98	Average	Horizontal
17.355	42.76	33.83	36.83	10.53	50.29	68.20	-17.91	Peak	Vertical
17.355	35.52	33.83	36.83	10.53	43.05	54.00	-10.95	Average	Vertical

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Channel 163 / 5825 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
17.475	40.43	34.22	36.83	10.53	48.35	68.20	-19.85	Peak	Horizontal
17.475	38.44	34.22	36.83	10.53	46.36	54.00	-7.64	Average	Horizontal
17.475	48.34	33.83	36.83	10.53	55.87	68.20	-12.33	Peak	Vertical
17.475	28.33	33.83	36.83	10.53	35.86	54.00	-18.14	Average	Vertical

IEEE 802.11ac VHT20

Channel 149 / 5745 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
17.235	41.74	34.22	36.83	10.53	49.66	68.20	-18.54	Peak	Horizontal
17.235	32.04	34.22	36.83	10.53	39.96	54.00	-14.04	Average	Horizontal
17.235	44.32	33.83	36.83	10.53	51.85	68.20	-16.35	Peak	Vertical
17.235	31.45	33.83	36.83	10.53	38.98	54.00	-15.02	Average	Vertical

Channel 157 / 5785 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
17.355	43.22	34.22	36.83	10.53	51.14	68.20	-17.06	Peak	Horizontal
17.355	38.64	34.22	36.83	10.53	46.56	54.00	-7.44	Average	Horizontal
17.355	45.11	33.83	36.83	10.53	52.64	68.20	-15.56	Peak	Vertical
17.355	32.83	33.83	36.83	10.53	40.36	54.00	-13.64	Average	Vertical

Channel 163 / 5825 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
17.475	40.74	34.22	36.83	10.53	48.66	68.20	-19.54	Peak	Horizontal
17.475	36.65	34.22	36.83	10.53	44.57	54.00	-9.43	Average	Horizontal
17.475	46.84	33.83	36.83	10.53	54.37	68.20	-13.83	Peak	Vertical
17.475	29.90	33.83	36.83	10.53	37.43	54.00	-16.57	Average	Vertical

IEEE 802.11n HT40

Channel 151 / 5755 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
17.265	48.87	34.22	36.83	10.53	56.79	68.20	-11.41	Peak	Horizontal
17.265	28.17	34.22	36.83	10.53	36.09	54.00	-17.91	Average	Horizontal
17.265	47.10	33.83	36.83	10.53	54.63	68.20	-13.57	Peak	Vertical
17.265	31.35	33.83	36.83	10.53	38.88	54.00	-15.12	Average	Vertical

Channel 159 / 5795 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
17.385	46.80	34.22	36.83	10.53	54.72	68.20	-13.48	Peak	Horizontal
17.385	36.87	34.22	36.83	10.53	44.79	54.00	-9.21	Average	Horizontal
17.385	47.62	33.83	36.83	10.53	55.15	68.20	-13.05	Peak	Vertical
17.385	35.19	33.83	36.83	10.53	42.72	54.00	-11.28	Average	Vertical

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IEEE 802.11ac VHT40

Channel 151 / 5755 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
17.265	42.39	34.22	36.83	10.53	50.31	68.20	-17.89	Peak	Horizontal
17.265	31.91	34.22	36.83	10.53	39.83	54.00	-14.17	Average	Horizontal
17.265	47.55	33.83	36.83	10.53	55.08	68.20	-13.12	Peak	Vertical
17.265	36.50	33.83	36.83	10.53	44.03	54.00	-9.97	Average	Vertical

Channel 159 / 5795 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol/Phase
17.385	49.12	34.22	36.83	10.53	57.04	68.20	-11.16	Peak	Horizontal
17.385	31.75	34.22	36.83	10.53	39.67	54.00	-14.33	Average	Horizontal
17.385	50.22	33.83	36.83	10.53	57.75	68.20	-10.45	Peak	Vertical
17.385	30.81	33.83	36.83	10.53	38.34	54.00	-15.66	Average	Vertical

IEEE 802.11ac VHT80

Channel 155 / 5775 MHz

Freq GHz	Read Level dBuV	Ant. Fac dB/m	Pre. Fac dB	Cab.Los dB	Measured Level dBuV	Limit Line dBuV/m	Over limit dB	Remark	Pol
17.325	47.86	34.22	36.83	10.53	55.78	68.20	-12.42	Peak	Horizontal
17.325	37.22	34.22	36.83	10.53	45.14	54.00	-8.86	Average	Horizontal
17.325	48.87	33.83	36.83	10.53	56.40	68.20	-11.80	Peak	Vertical
17.325	38.31	33.83	36.83	10.53	45.84	54.00	-8.16	Average	Vertical

Notes:

1). Measuring frequencies from 9 KHz ~ 40 GHz, at least have 20dB margin found between lowest internal used/generated frequency to 30MHz.
2). Radiated emissions measured in frequency range from 9 KHz ~ 40 GHz were made with an instrument using Peak detector mode.
3). 18~40GHz at least have 20dB margin. No recording in the test report.
4). Worst case data at 6Mbps at IEEE 802.11a; MCS0 at IEEE 802.11n HT20; IEEE 802.11n HT40; IEEE 802.11ac VHT20; IEEE 802.11ac VHT40; IEEE 802.11ac VHT80.
5). Data of measurement within this frequency range shown "---" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.
6). Measured Level = Reading Level + Factor, Over = Measured Level – Limit, Factor = Antenna Factor + Cable Loss - Preamp Factor.

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5.9. Power Line Conducted Emissions

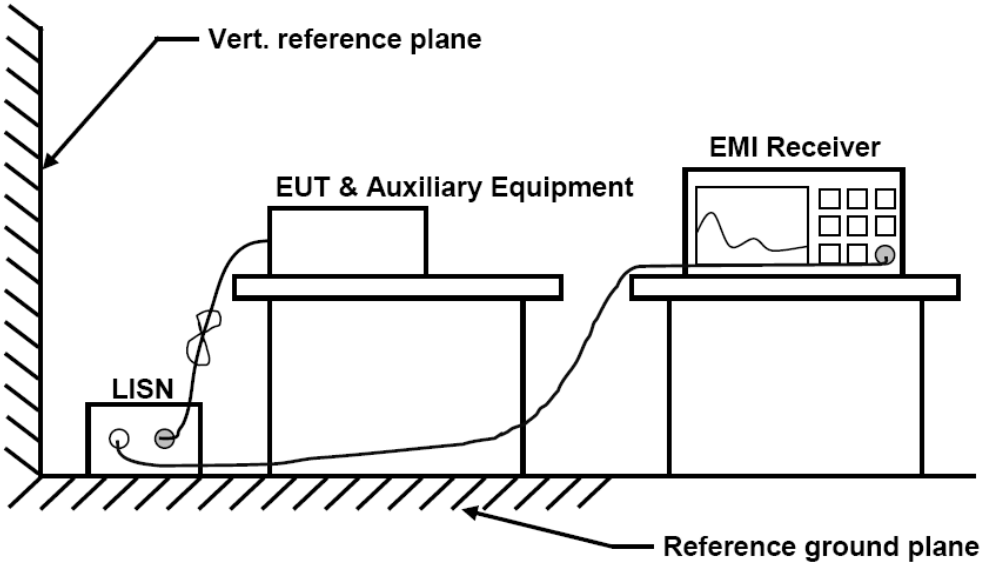
5.9.1 Standard Applicable

According to §15.207 (a): For an intentional radiator which is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed 250 microvolts (The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz). The limits at specific frequency range are listed as follows:

Frequency Range (MHz)	Limits (dBμV)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56*	56 to 46*
0.50 to 5	56	46
5 to 30	60	50

* Decreasing linearly with the logarithm of the frequency

5.9.2 Block Diagram of Test Setup



5.9.3 Disturbance Calculation

The AC mains conducted disturbance is calculated by adding the 10dB Pulse Limiter and Cable Factor and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

CD (dBuV) = RA (dBuV) + PL (dB) + CL (dB)

Where CD = Conducted Disturbance	CL = Cable Attenuation Factor (Cable Loss)
RA = Reading Amplitude	PL = 10 dB Pulse Limiter Factor

5.9.4 Test Results

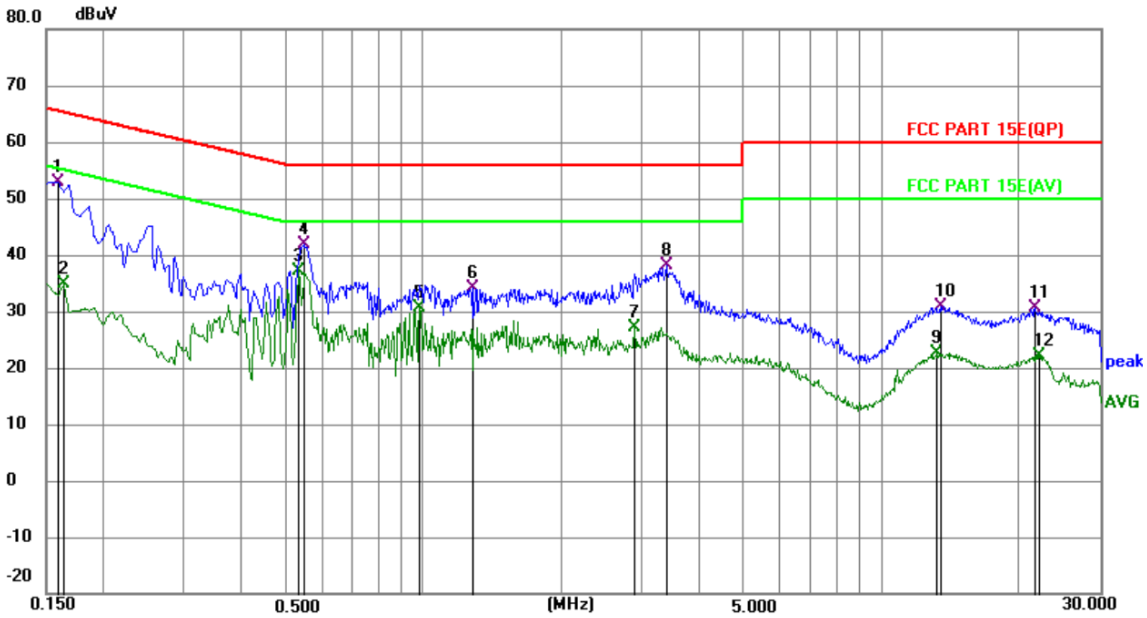
Temperature	24.2℃	Humidity	55.1%
Test Engineer	Zhang hai	Configurations	IEEE 802.11a/n/ac

PASS.

The test data please refer to following page.

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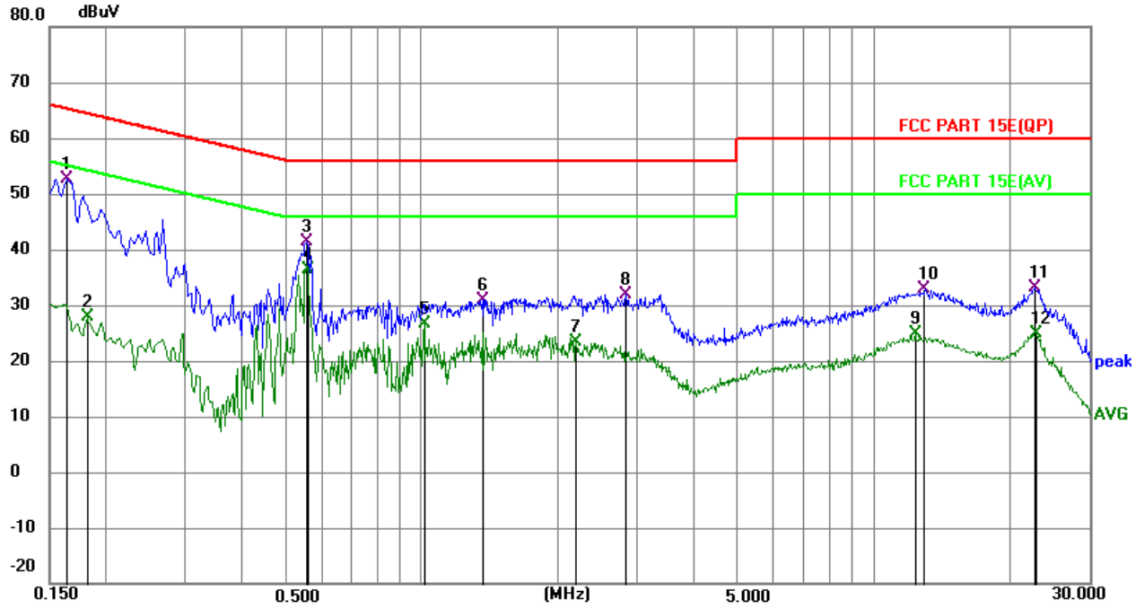
Line



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz		dB	dBuV	dBuV	dB	Detector	Comment
1		0.1590	42.74	10.16	52.90	65.52	-12.62	QP	
2		0.1635	24.66	10.15	34.81	55.28	-20.47	AVG	
3	*	0.5324	27.00	10.08	37.08	46.00	-8.92	AVG	
4		0.5460	31.89	10.08	41.97	56.00	-14.03	QP	
5		0.9825	20.36	10.21	30.57	46.00	-15.43	AVG	
6		1.2839	24.00	10.23	34.23	56.00	-21.77	QP	
7		2.8950	16.93	10.19	27.12	46.00	-18.88	AVG	
8		3.3990	28.00	10.17	38.17	56.00	-17.83	QP	
9		13.2000	12.35	10.39	22.74	50.00	-27.26	AVG	
10		13.4205	20.42	10.39	30.81	60.00	-29.19	QP	
11		21.6015	20.23	10.37	30.60	60.00	-29.40	QP	
12		22.1415	11.85	10.35	22.20	50.00	-27.80	AVG	

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Neutral



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure-ment	Limit	Over		
		MHz		dB	dBuV	dBuV	dB	Detector	Comment
1		0.1635	42.58	10.10	52.68	65.28	-12.60	QP	
2		0.1814	17.68	10.10	27.78	54.42	-26.64	AVG	
3		0.5550	31.27	10.08	41.35	56.00	-14.65	QP	
4	*	0.5594	26.36	10.08	36.44	46.00	-9.56	AVG	
5		1.0140	16.36	10.16	26.52	46.00	-19.48	AVG	
6		1.3605	20.77	10.19	30.96	56.00	-25.04	QP	
7		2.1974	13.26	10.22	23.48	46.00	-22.52	AVG	
8		2.8320	21.70	10.23	31.93	56.00	-24.07	QP	
9		12.3270	14.44	10.33	24.77	50.00	-25.23	AVG	
10		13.0424	22.55	10.34	32.89	60.00	-27.11	QP	
11		22.7310	22.77	10.32	33.09	60.00	-26.91	QP	
12		22.9920	14.49	10.31	24.80	50.00	-25.20	AVG	

****Note: Pre-scan all modes and recorded the worst case results in this report IEEE 802.11ac VHT20 mode (High Channel)*
Measurement = Reading + Correct, Margin = Measurement – Limit,
Correct Factor=Lisn Factor+Cable Factor+Insertion loss of Pulse Limiter.

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5.10. Antenna Requirements

5.10.1 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

And according to FCC 47 CFR Section 15.407 (a), if transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

5.10.2 Antenna Connected Construction

5.10.2.1. Standard Applicable

According to § 15.203 & RSS-Gen, 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.

5.10.2.2. Antenna Connector Construction

The gains of antenna used for transmitting is 2.69dBi(Max), and the antenna is FPC Antenna connect to PCB board and no consideration of replacement. Please see EUT photo for details, meet 15.203 & RSS-Gen antenna requirement.

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6. LIST OF MEASURING EQUIPMENTS

Item	Equipment	Manufacturer	Model No.	Equipment No.	Cal Date	Due Date
1	Power Meter	Keysight	E4417A	GLCS-E-279	2026-04-07	2027-04-06
2	Power Sensor	Keysight	E9304A	GLCS-E-280	2026-04-07	2027-04-06
3	Power Sensor	Keysight	E9304A	GLCS-E-281	2026-04-07	2027-04-06
4	Spread Spectrum Unit	Tonscend	TS-WF7U2	GLCS-E-364	N/A	N/A
5	Test Software	Tonscend	JS1120-3	GLCS-E-366	N/A	N/A
6	RF Control Unit	Tonscend	JS0806-2	GLCS-E-365	2026-07-15	2027-07-14
7	MXA Signal Analyzer	Keysight	N9020A	GLCS-E-356	2026-07-15	2027-07-14
8	DC Power Supply	Keysight	E3642A	GLCS-E-357	2026-07-15	2027-07-14
9	Signal Analyzer	Keysight	N5172B	GLCS-E-353	2026-07-15	2027-07-14
10	Signal Analyzer	Keysight	N5181A	GLCS-E-354	2026-07-15	2027-07-14
11	WIDEBAND RADIO COMMUNICATION TESTER	Rohde & Schwarz	CMW500	GLCS-E-355	2026-07-15	2027-07-14
12	EMI Test Software	Farad	EZ-EMC(Ver.FA-03A2 RE+)	GLCS-E-012	N/A	N/A
13	Semi Anechoic Chamber#1	Maorui	966	GLCS-E-001	2024-04-21	2027-04-20
14	Positioning Controller	Max-Full	MF-7802	GLCS-E-015	N/A	N/A
15	Active Loop Antenna	TESEQ	HLA 6121	GLCS-E-155	2026-07-17	2027-07-16
16	By-log Antenna	SCHWARZBECK	VULB9163	GLCS-E-352	2025-08-16	2028-08-15
17	Low-frequency amplifier	Sonoma	310N	GLCS-E-036	2026-04-07	2027-04-06
18	Horn Antenna	SCHWARZBECK	BBHA 9120D	GLCS-E-060	2026-07-17	2027-07-16
19	Broadband Horn Antenna	SCHWARZBECK	BBHA 9170	GLCS-E-348	2025-08-18	2028-08-17
20	Broadband Preamplifier	Cesheng Technology	LNPA_30M06G-40(18GHz)	GLCS-E-286	2026-04-07	2027-04-06
21	Broadband Preamplifier	Cesheng Technology	LNPA 30M06G-40(40GHz)	GLCS-E-287	2026-04-10	2027-04-09
22	EMI Test Receiver	R&S	ESR 7	GLCS-E-192	2026-04-07	2027-04-06
23	RS SPECTRUM ANALYZER	R&S	FSP40	GLCS-E-213	2026-08-05	2027-08-04
24	6dB Attenuator	/	100W/6dB	GLCS-E-350	2026-07-15	2027-07-14
25	3dB Attenuator	/	2N-3dB	GLCS-E-351	2026-07-09	2027-07-08
26	EMI Test Receiver	ROHDE & SCHWARZ	ESR7	GLCS-E-158	2026-04-07	2027-04-06
27	Artificial Mains Network	ROHDE & SCHWARZ	ESH2-Z5	GLCS-E-011	2026-01-14	2027-01-13
28	EMI Test Software	Farad	EZ-EMC(Ver.FA-03A2 RE+)	GLCS-E-017	N/A	N/A
29	Antenna Mast	Maorui	BK-4AT-BS	GLCS-E-249	N/A	N/A
30	Pulse Limiter	SCHWARZBECK	VTSD 9561-F	GLCS-E-080	2026-04-07	2027-04-06

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7. TEST SETUP PHOTOGRAPHS OF EUT

Please refer to separated files for Test Setup Photos of the EUT.

8. EXTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for External Photos of the EUT.

9. INTERIOR PHOTOGRAPHS OF THE EUT

Please refer to separated files for Internal Photos of the EUT.

----------THE END OF REPORT----------

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