

TE	ST REPOR	Γ	
Report No	CHTEW21040066	Report Verification:	
Project No	SHT2103073001EW		
FCC ID:	2ASWWCORNX4		
Applicant's name:	XINCHUANGXIN INTERNA	TIONAL CO.,LTD	
Address:	ROOM 605 6/F, FA YUEN C YUEN STREET MONGKOK	OMMERCIAL BUILDING, 75-77 FA KL	
Test item description	Smart Phone		
Trade Mark	CORN		
Model/Type reference:	X4		
Listed Model(s)	X4 Pro, X4 Plus, X4 Max, X4	Lite	
Standard:	FCC CFR Title 47 Part 15 Subpart C Section 15.247		
Date of receipt of test sample	Mar. 24, 2021		
Date of testing	Mar. 25, 2021- Apr. 15, 2021		
Date of issue	Apr. 16, 2021		
Result:	PASS		
Compiled by (Position+Printed name+Signature):	File administrator Silvia Li	Silvia Li Aaron.Fang	
Supervised by (Position+Printed name+Signature):	Project Engineer Aaron Fang	Aaron.Fang	
Approved by (Position+Printed name+Signature):	RF Manager Hans Hu	Hamsty	
Testing Laboratory Name:	Shenzhen Huatongwei Inte	rnational Inspection Co., Ltd.	
Address	1/F, Bldg 3, Hongfa Hi-tech I Tianliao, Gongming, Shenzh		
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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- <u>FCC Rules Part 15.247</u>: 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
- KDB 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2021-04-16	Original

2. TEST DESCRIPTION

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

Note:

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

3. SUMMARY

3.1. Client Information

Applicant:	XINCHUANGXIN INTERNATIONAL CO.,LTD	
Address:	ROOM 605 6/F, FA YUEN COMMERCIAL BUILDING, 75-77 FA YUEN STREET MONGKOK KL	
Manufacturer:	Shenzhen Chiteng Technology Co.,LTD	
Address:	Second Floor, Area A, Building 4, Huiye Technology Worksho Guanguang Road, Tangjia Community, Gongming Street, Guangmir New District, Shenzhen, Guangdong	

3.2. Product Description

Name of EUT:	Smart Phone
Trade Mark:	CORN
Model No.:	X4
Listed Model(s):	X4 Pro, X4 Plus, X4 Max, X4 Lite
Power supply:	DC 3.7V
Battery Information:	DC 3.7V, 1500mAh
Adapter Information:	Model:CS001 Input: AC100-240V, 50/60Hz, 0.15A Output: 5.0Vdc, 1.0A
Hardware version:	E7385D3_MB_V1.0
Software version:	10.0

3.3. Radio Specification Description

Support type ^{*2} :	802.11b, 802.11g, 802.11n(HT20)
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)
Operation frequency:	2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20)
Channel number:	11 for 802.11b/802.11g/802.11n(HT20)
Channel separation:	5MHz
Antenna type:	internal Antenna
Antenna gain:	1.2dBi

Note:

*2: only show the RF function associated with this report.

3.4. Testing Laboratory Information

Laboratory Name	Shenzhen Huatongwei International Inspection Co., Ltd.		
Laboratory Location	1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China		
Connect information:	Phone: 86-755-26715499 E-mail: <u>cs@szhtw.com.cn</u> <u>http://www.szhtw.com.cn</u>		
Qualifications	Туре	Accreditation Number	
Qualifications	FCC	762235	

4. TEST CONFIGURATION

4.1. Test frequency list

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

802.11b/802.11g/802.11n(HT20)		
Channel Frequency (MHz)		
01	2412	
02	2417	
• :	• :	
06	2437	
• :	• :	
10	2457	
11	2462	

4.2. Descriptions of Test mode

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

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

4.3. Test mode

For RF test items

The engineering test program was provided and enabled to make EUT continuous transmit.

For AC power line conducted emissions:

The EUT was set to connect with the WLAN AP under large package sizes transmission.

For Radiated spurious emissions test item:

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

4.4. Support unit used in test configuration and system

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

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

Wheth	Whether support unit is used?				
~	No				
Item	Equipement	Trade Name	Model No.	FCC ID	Power cord
1					
2					

4.5. Testing environmental condition

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

4.6. Measurement uncertainty

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.02 dB
Radiated Emission (30MHz~1000MHz	4.90 dB
Radiated Emissions (1GHz~25GHz)	4.96 dB
Peak Output Power	0.51 dB
Power Spectral Density	0.51 dB
Conducted Spurious Emission	0.51 dB
6dB Bandwidth	70 Hz

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

4.7. Equipment Used during the Test

•	Conducted Emission												
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)						
•	Shielded Room	Albatross projects	HTWE0114	N/A	N/A	2018/09/28	2023/09/27						
•	EMI Test Receiver	R&S	HTWE0111	ESCI	101247	2020/10/19	2021/10/18						
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2020/10/15	2021/10/14						
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2020/10/15	2021/10/14						
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2020/10/15	2021/10/14						
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A						

•	Radiated emission-6th test site												
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)						
•	Semi-Anechoic Chamber	Albatross projects	HTWE0127	SAC-3m-02	C11121	2018/09/30	2021/09/29						
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2020/10/19	2021/10/18						
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/01	2024/03/31						
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/01	2024/03/31						
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2020/11/13	2021/11/12						
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2020/05/27	2021/05/26						
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2020/05/27	2021/05/26						
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A						

•	Radiated emission-7th test site											
Used	Test Equipment	Manufacturer	Equipment No.	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)					
•	Semi-Anechoic Chamber	Albatross projects	HTWE0122	SAC-3m-01	N/A	2018/09/27	2021/09/26					
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2020/10/20	2021/10/19					
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31					
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11					
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/13	2021/11/12					
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2020/05/23	2021/05/22					
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09					
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2020/05/10	202105/09					
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-03	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09					
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2020/05/10	2021/05/09					
•	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2020/05/10	2021/05/09					
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A					

•	RF Conducted Method										
Used	Test Equipment	Manufacturer	Model No.	Serial No.	Last Cal. Date (YY-MM-DD)	Next Cal. Date (YY-MM-DD)					
•	Signal and spectrum Analyzer	R&S	FSV40	100048	2020/10/19	2021/10/18					
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2020/10/19	2021/10/18					
•	Power Meter	Anritsu	ML249A	N/A	2020/10/19	2021/10/18					
0	Radio communication tester	R&S	CMW500	137688-Lv	2020/10/19	2021/10/18					

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

<u>Requirement</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responseble 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 6 dBi 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 6 dBi.

TEST RESULT

☑ Passed □ Not Applicable

The antenna type is a internal antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



5.2. AC Conducted Emission

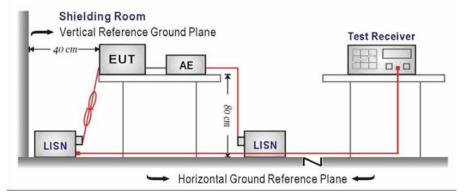
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

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

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

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

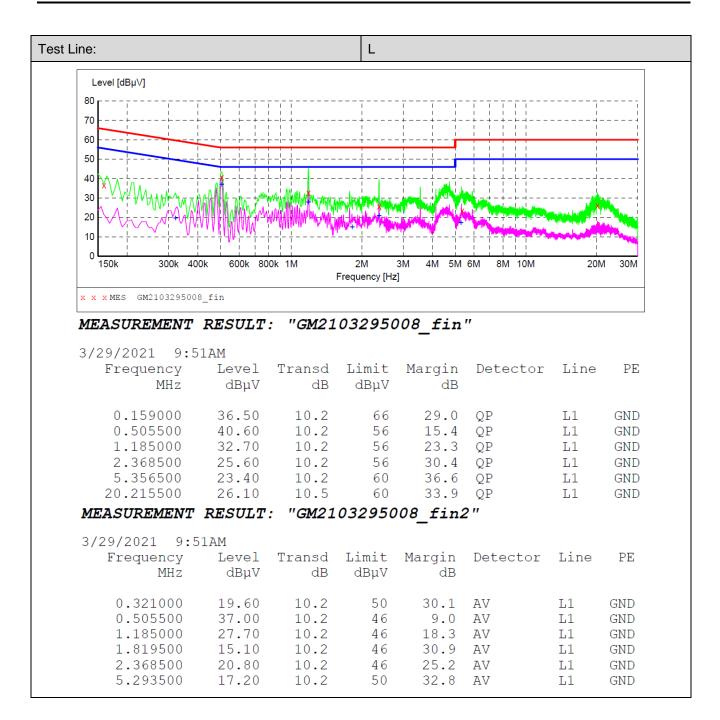
TEST MODE:

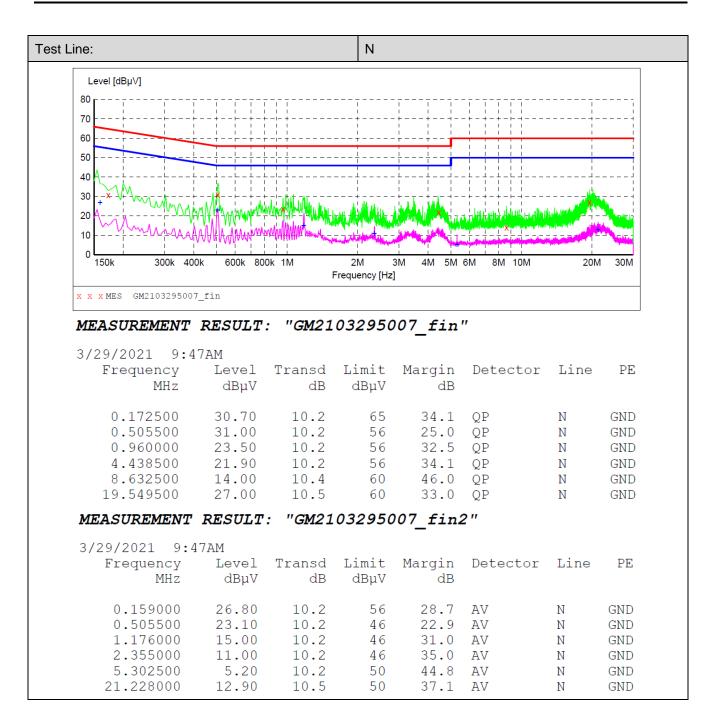
Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

Shenzhen Huatongwei International Inspection Co., Ltd.



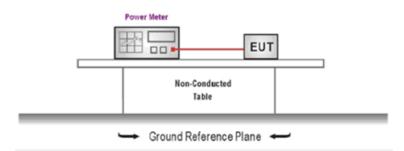


5.3. Peak Output Power

LIMIT

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

TEST CONFIGURATION



TEST PROCEDURE

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

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

TEST Data

Please refer to appendix A on the appendix report

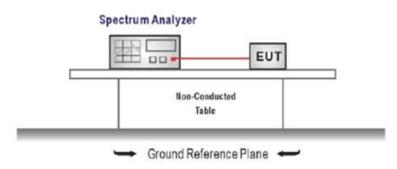
5.4. Power Spectral Density

<u>LIMIT</u>

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

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

TEST CONFIGURATION



TEST PROCEDURE

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

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

TEST Data

Please refer to appendix B on the appendix report

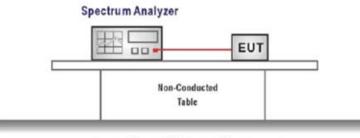
5.5. 6dB bandwidth

LIMIT

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

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

TEST CONFIGURATION



➡ Ground Reference Plane

TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 kHz, VBW \ge 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- 4. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission, and record the pertinent measurements.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

🛛 Passed 🛛 🗌 Not

Not Applicable

TEST Data

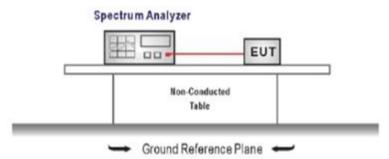
Please refer to appendix C on the appendix report

5.6. 99% Occupied Bandwidth

<u>LIMIT</u>

N/A

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 2. Configure the spectrum analyzer as shown below (enter all losses between the transmitter output and the spectrum analyzer).

Center Frequency =channel center frequency Span≥1.5 x OBW RBW = 1%~5%OBW VBW ≥ 3 × RBW Sweep time= auto couple Detector = Peak Trace mode = max hold

3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

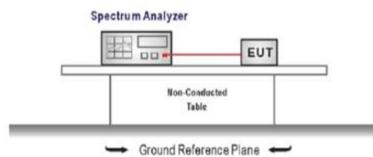
TEST Data

Please refer to appendix D on the appendix report

5.7. Duty Cycle

N/A

TEST CONFIGURATION



TEST PROCEDURE

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

TEST MODE:

Please refer to the clause 4.2

TEST Data

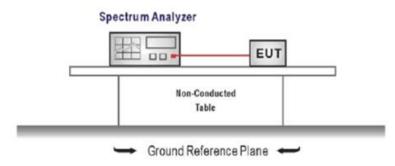
Please refer to appendix E on the appendix report

5.8. Conducted Band edge and Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section15.247 (d):In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

TEST CONFIGURATION



TEST PROCEDURE

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

Use the peak marker function to determine the maximum PSD level

Note that the channel found to contain the maximum PSD level can be used to establish the reference level.

3. Emission level measurement

Set the center frequency and span to encompass frequency range to be measured

RBW = 100 kHz, VBW \ge 3 x RBW

Detector = peak, Sweep time = auto couple, Trace mode = max hold

Allow trace to fully stabilize

Use the peak marker function to determine the maximum amplitude level.

- 4. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter waveform on the spectrum analyzer.
- Ensure that the amplitude of all unwanted emission outside of the authorized frequency band excluding restricted frequency bands) are attenuated by at least the minimum requirements specified (at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz). Report the three highest emission relative to the limit.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

TEST Data

Please refer to appendix F on the appendix report

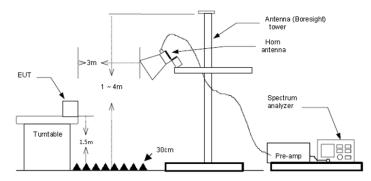
5.9. Radiated Band edge Emission

<u>LIMIT</u>

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

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

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna. In order to find themaximum emission, all of the interface cables were manipulated according to ANSI C63.10 on radiated measurement.
- 5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- − VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

Note:

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

Туре		802.11	b	Test ch	annel	CH	101	Po	olarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	e Pream dB	ıp Aux dB	Level dBuV/m		ver Remark .mit
	1 2	2310.00 2390.01	32.79 31.25	27.96 27.72	7.30 7.72		20.00 20.00		74.00 -23. 74.00 -24.	
		Frequency MHz	dBuV/m	Antenna dB	dB	dB	dB	Level dBuV/m		t
	1 2	2310.00 2390.01	26.18 25.53	27.96 27.72	7.30 7.72	37.56 37.45	20.00 20.00		54.00 -10.12 54.00 -10.48	
Туре		802.11	b	Test ch	annel	CH	101	Po	olarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m		ver Remark .mit
	1 2	2310.00 2390.01	32.81 32.78	27.96 27.72	7.30 7.72	37.56 37.45	20.00 20.00	50.51 50.77	74.00 -23	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limi	
	1 2	2310.00 2390.01		27.96 27.72		37.56 37.45	20.00		54.00 -9.21 54.00 -10.81	

Туре		802.11	1b	Test cl	hannel	C⊦	111		Polarity		Horizontal
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable F dB	Preamp dB	Aux dB	Level dBuV/m		ver imit	Remark
	_	2483.49 2500.00		27.43 27.40			20.00 20.00		6 54.00 -10 6 54.00 -11	.34	Average Average
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m		Over limit	Remark
	1 2	2483.49 2500.00	31.98 31.99	27.43 27.40		37.26 37.26	20.00 20.00	49.95 49.94		4.05 4.06	Peak Peak
Туре		802.11	1b	Test cl	hannel	C⊢	111		Polarity		Vertical
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m		ver imit	Remark
	1 2	2483.49 2500.00	26.35 25.41	27.43 27.40	7.80 3 7.81 3		20.00 20.00			.68 .64	Average Average
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/r		Over limi	
	_	2483.49 2500.00	32.43 32.37	27.43 27.40		37.26 37.26	20.00 20.00	50.40 50.32		23.60 23.68	

Туре		802.1	1g	Test c	hannel	CI	H01	F	Polarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/	Over m limi		
	1 2		34.80 34.39		7.30	37.56 37.45	20.00	52.50	-	-21.50	Peak	
	Mark	Frequency MHz		Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1 2	2310.00 2390.01		27.96 27.72	7.30 7.72			44.25 43.68		-9.75 -10.32	Average Average	
Туре		802.1	1g	Test c	hannel	CI	H01	F	Polarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/n		Remark	
		2310.00	34.40		7.30	37.56 37.45	20.00 20.00	52.10 51.27	74.00	-21.90 -22.73	Peak	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1 2	2310.00 2390.01	-		7.30	37.56 37.45	20.00	44.79 43.57	54.00	-9.21	Average Average	

Туре	802.1	1g 1	Fest channel	CH11	Polarity	Horizontal
-	Mark Frequency MHz		tenna Cable dB dB	Preamp Aux dB dB	Level Limit Over dBuV/m dBuV/m limit	Remark
	1 2483.49 2 2500.00	25.95 27		7.26 20.00	43.92 54.00 -10.08 43.32 54.00 -10.68	Average Average
-	Mark Frequency MHz		tenna Cable dB dB	Preamp Aux dB dB	Level Limit Over dBuV/m dBuV/m limi	
	1 2483.49 2 2500.00			37.26 20.00 37.26 20.00	50.91 74.00 -23.09 49.98 74.00 -24.02	
Туре	802.1	1g 1	Fest channel	CH11	Polarity	Vertical
-	Mark Frequency MHz		enna Cable F B dB		Level Limit Over dBuV/m dBuV/m limit	Remark
	1 2483.49 2 2500.00	25.24 27. 25.15 27.		7.26 20.00 7.26 20.00	43.21 54.00 -10.79 43.10 54.00 -10.90	Average Average
	Mark Frequency MHz		tenna Cable dB dB	Preamp Aux dB dB	Level Limit Over dBuV/m dBuV/m limit	Remark
	1 2483.49 2 2500.00			37.26 20.00 37.26 20.00	52.00 74.00 -22.00 50.50 74.00 -23.50	Peak Peak

Туре		802.11n	(HT20)	Test	chann	el	CH01		Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Prear dB	np Aux dB	Level dBuV/r		
	_	2310.00 2390.01		27.96 27.72	7.30 7.72	37.56 37.45	20.00 20.00	49.89 49.81	74.00 -24.11 74.00 -24.19	L Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2	2310.00 2390.01		27.96 27.72	7.30 7.72	37.56 37.45	20.00 20.00		31 54.00 -10.69 86 54.00 -11.14	
Туре		802.11n	(HT20)	Test	chann	el	CH01		Polarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cabl dB	e Prea dB	amp Aux dB	Leve dBuV		
	1 2	2310.00 2390.01	33.10 33.94	27.96 27.72	7.30 7.72		5 20.00	50.80	-	20 Peak
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2	2310.00 2390.01		27.96 27.72		37.56 37.45	20.00 20.00	43.84 43.24	4 54.00 -10.16 4 54.00 -10.76	Average Average

Туре		802.11n(H	HT20) Test	channel	CH11	F	Polarity	Horizontal
	Mark Free		ding Antenna V/m dB	Cable Pre dB dB		Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2483 2 2500	.49 26.	-	7.80 37.2 7.81 37.2	6 20.00	44.03	54.00 -9.97 54.00 -11.42	Average Average
			eading Anten BuV/m dB		reamp Aux dB dB	Level dBuV/m	Limit Over dBuV/m limi	
			2.89 27.43 1.30 27.40		.26 20.00 .26 20.00	50.86 49.25	74.00 -23.14 74.00 -24.75	
Туре		802.11n(H	HT20) Test	channel	CH11	F	Polarity	Vertical
	Mark Fre		ading Antenn uV/m dB	a Cable Pro dB di	eamp Aux 3 dB	Level dBuV/m	Limit Over dBuV/m limit	Remark
	1 2483 2 2500	.49 26	.24 27.43 .96 27.40	7.80 37. 7.81 37.	26 20.00	44.2	1 54.00 -9.79 1 54.00 -11.09	
	Mark Fre M	· · · · ·	ading Antenn uV/m dB		eamp Aux B dB	Level dBuV/m	Limit Over dBuV/m limi	
	1 2483 2 2500		.01 27.43 .45 27.40	7.80 37. 7.81 37.		51.98 50.40	74.00 -22.02 74.00 -23.60	

5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

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

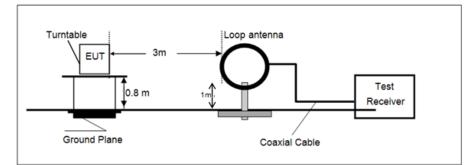
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

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

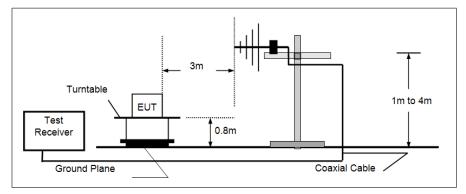
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
	74.00	Peak

TEST CONFIGURATION

➢ 9 kHz ~ 30 MHz

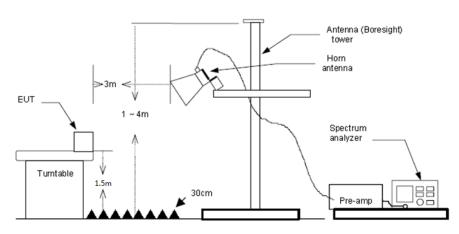


> 30 MHz ~ 1 GHz



> Above 1 GHz

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TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10 .
- The EUT is placed on a turn table which is 0.8 meter above ground for below 1 GHz, and 1.5 m for above 1 GHz. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT was set 3 meters from the receiving antenna, which was mounted on the top of a variable height antenna tower.
- 4. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines.
- 5. Set to the maximum power setting and enable the EUT transmit continuously.
- 6. Use the following spectrum analyzer settings
 - a) Span shall wide enough to fully capture the emission being measured;
 - b) Below 1 GHz:
 - RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold;

If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- − VBW≥1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation, so refer to this clasue 5.6 duty cycle.

TEST MODE:

Please refer to the clause 4.2 TEST RESULT

☑ Passed □ Not Applicable

Note:

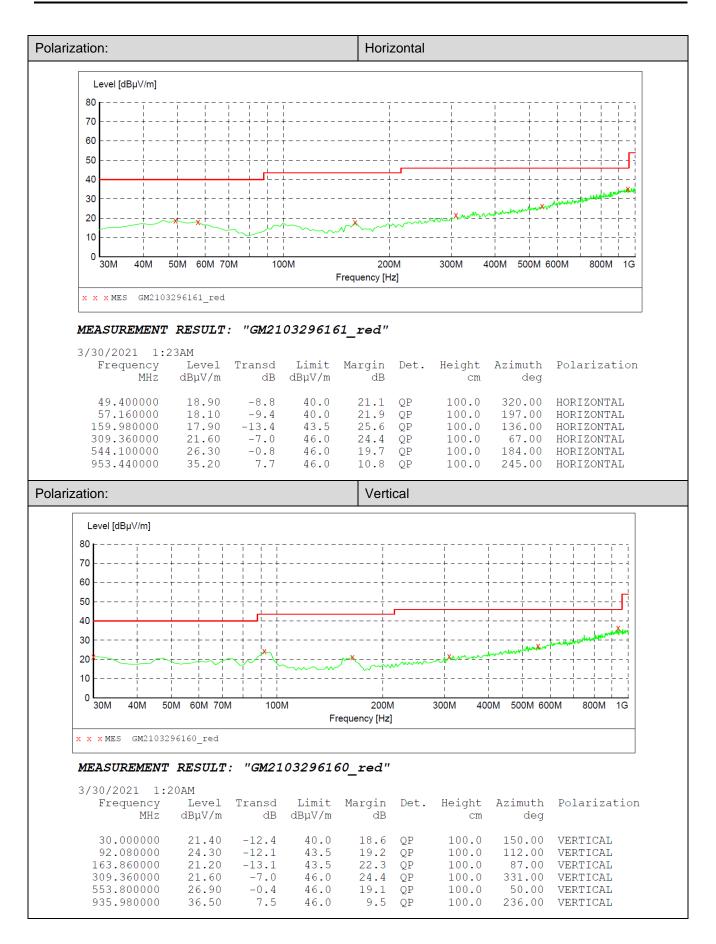
- 1) Level= Reading + Factor/Transd; Factor/Transd = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

<u> TEST DATA FOR 9 kHz ~ 30 MHz</u>

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

TEST DATA FOR 30 MHz ~ 1000 MHz

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



<u> TEST DATA FOR 1 GHz ~ 25 GHz</u>

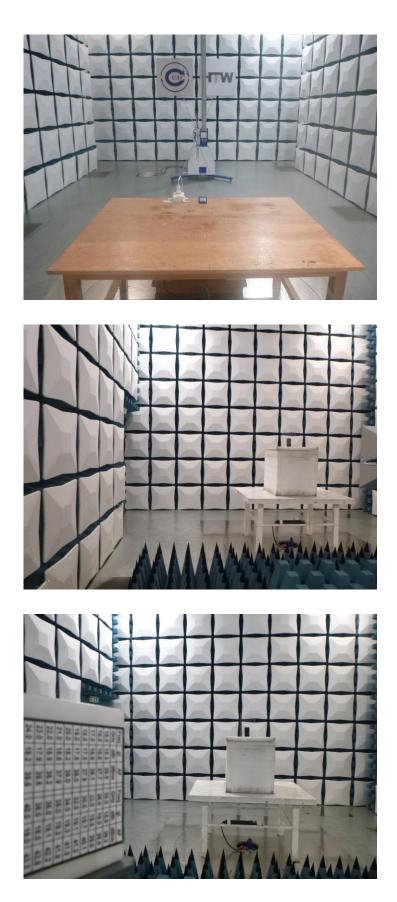
Туре			802.11	b	Test c	hannel		CH0	1		Polarity	Horizontal
	Mark 1 2 3 4		NHz 0.63 1.28 1.76	Reading dBuV/m 38.37 31.93 41.14 30.67	Antenna dB 25.76 29.78 31.40 36.95	Cable dB 6.53 9.89 11.52 14.41	d 36. 36. 35.	B 99 89 24	Aux dB 0.00 0.00 0.00 0.00	Level dBuV/ 33.67 34.71 48.82 48.71		mit 33 Peak 29 Peak 18 Peak
Туре			802.11	b	Test c	hannel		CH0	1		Polarity	Vertical
	Mark Frequency MHz 1 1889.63 2 3913.39 3 4821.76					5.76 6.53 36 9.83 9.99 36		dB dB dBu 5.99 0.00 32.1 5.66 0.00 34.5		Level dBuV/ 32.18 34.53 46.97	'm dBuV/m 15 74.00 -41. 74.00 -39. 74.00 -27.	47 Peak 03 Peak
Turne	4	8022		30.62	37.14		33.			48.74	74.00 -25.	
Туре			802.11	a	l est c	hannel		CHO	0		Polarity	Horizontal
			Hz	Reading dBuV/m	Antenna dB 25.76	Cable dB 6.53	Pr d 36.	в	Aux dB 0.00	Level dBuV/	′m dBuV/m li	rer Remark mit
	1 2	3607		38.85 31.70	29.40	10.08	36.		0.00	34.15 34.22	74.00 -39. 74.00 -39.	
	3	4871		37.00	31.40		35.		0.00	44.75	74.00 -29.	
	4	7961		30.89	36.95	14.41	33.		0.00	48.93	74.00 -25.	
Туре			802.11	b	Test channel			CH0	06 Polarity			Vertical
	Mark 1		quency Hz	Reading dBuV/m 33.30	Antenna dB 25.99	Cable dB 5.40	Pr d 36.	в	Aux dB 0.00	Level dBuV/ 28.37		mit
	2	3709		33.05	29.42		37.		0.00	35.19	74.00 -38.	
	4	4871 8042		35.13 30.20	31.40 37.19	11.51 14.28	35. 33.		0.00 0.00	42.88 48.36	74.00 -31. 74.00 -25.	
Туре			802.11	b	Test c	hannel		CH1	11 Polarity			Horizontal
	Mark	· Fr	equency	Reading	Antenna	Cable		eamp	Aux	Leve	l Limit O	ver Remark
	1 2 3 4	188 358 492	MHz 9.63 8.94 0.96 2.90	dBuV/m 37.43 32.57 38.13 30.30	dB 25.76 29.38 31.44 37.19	dB 6.53 10.03 11.51 14.28	36. 36. 35.	21		dBuV, 32.73 35.08 45.87 48.46	74.00 -41 74.00 -38 74.00 -28	mit 27 Peak 92 Peak 13 Peak
Туре	2	188 358 492	MHz 9.63 8.94 0.96	dBuV/m 37.43 32.57 38.13 30.30	dB 25.76 29.38 31.44 37.19	6.53 10.03 11.51	36. 36. 35.	.99 .90 .21	0.00 0.00 0.00 0.00	32.73 35.08 45.87	74.00 -41 74.00 -38 74.00 -28	mit 27 Peak 92 Peak 13 Peak
Туре	2 3 4	188 358 492 804 Fre	MHz 9.63 8.94 0.96 2.90 802.11 quency Hz	dBuV/m 37.43 32.57 38.13 30.30 b Reading dBuV/m	dB 25.76 29.38 31.44 37.19 Test C Antenna dB	6.53 10.03 11.51 14.28 hannel Cable dB	36, 36, 35, 33, 97	99 90 21 31 CH1 eamp B	0.00 0.00 0.00 0.00 1 Aux dB	32.73 35.08 45.87 48.46 Level dBuV,	74.00 -41 74.00 -38 74.00 -28 74.00 -25 Polarity L Limit Or (m dBuV/m 1	imit 27 Peak 92 Peak 13 Peak 54 Peak Vertical
Туре	2 3 4 Mark	188 358 492 804 Fre M 1894	MHz 9.63 8.94 0.96 2.90 802.11 90 802.11 	dBuV/m 37.43 32.57 38.13 30.30 b Reading dBuV/m 35.81	dB 25.76 29.38 31.44 37.19 Test C Antenna dB 25.78	6.53 10.03 11.51 14.28 hannel Cable dB 6.52	36, 36, 35, 33, 33, Pr d 37,	99 90 21 31 CH1 eamp B 00	0.00 0.00 0.00 1 Aux dB 0.00	32.73 35.08 45.87 48.46 Level dBuV/ 31.11	74.00 -41 74.00 -38 74.00 -28 74.00 -25 Polarity L Limit Or /m dBuV/m 1: 74.00 -42	imit 27 Peak 92 Peak 13 Peak 54 Peak Vertical ver Remark imit 89 Peak
Туре	2 3 4 Mark	188 358 492 804 Fre	MHz 9.63 8.94 0.96 2.90 802.11 quency Hz .45 .11	dBuV/m 37.43 32.57 38.13 30.30 b Reading dBuV/m	dB 25.76 29.38 31.44 37.19 Test C Antenna dB	6.53 10.03 11.51 14.28 hannel Cable dB	36, 36, 35, 33, 33, Pr d 37, 37,	99 90 21 31 CH1 eamp B 00 03	0.00 0.00 0.00 1 Aux dB 0.00 0.00	32.73 35.08 45.87 48.46 Level dBuV,	74.00 -41 74.00 -38 74.00 -28 74.00 -25 Polarity L Limit Or /m dBuV/m 1 74.00 -42 74.00 -38	imit 27 Peak 92 Peak 13 Peak 54 Peak Vertical ver Remark imit 89 Peak 76 Peak

Туре		802	2.11g	Test cl	hannel	CH	01		Polarity		Horizontal	
-	3	Frequen MHz 1894.45 3516.59 4821.76 7643.68	cy Reading dBuV/m 36.92 32.66 41.18 29.83	Antenna dB 25.78 29.17 31.40 36.31	Cable dB 6.52 9.60 11.52 14.70	dB 37.00 36.68 35.24	Aux dB 0.00 0.00 0.00 0.00	Level dBuV/r 32.22 34.75 48.86 47.67		Over limi -41.78 -39.25 -25.14 -26.33	t Peak Peak Peak	
Туре		802.11g			nannel	CH	01		Polarity	Vertical		
	Mark 1 2 3 4	Frequer MHz 1894.45 3543.55 4821.76 8042.90	ncy Reading dBuV/m 34.82 32.54 36.55 30.46	Antenna dB 25.78 29.27 31.40 37.19	dB 6.52 9.76 11.52	Preamp dB 37.00 36.78 35.24 33.31	Aux dB 0.00 0.00 0.00 0.00	Level dBuV/r 30.12 34.79 44.23 48.62		Over limi -43.88 -39.21 -29.77 -25.38	t Peak Peak Peak	
Туре		802	2.11g	Test cl	nannel	CH	06		Polarity		Horizontal	
	Mark 1 2 3 4	Frequer MHz 1238.41 3672.11 4871.10 8063.40	ncy Reading dBuV/m 34.43 32.75 39.42 31.16	dB 25.83 29.40	dB 5.22 9.88	dB 36.55 37.03 35.16	Aux dB 0.00 0.00 0.00 0.00	Level dBuV/m 28.93 35.00 47.17 49.32	Limit dBuV/m 74.00 74.00 74.00 74.00 74.00	Over limit -45.07 -39.00 -26.83 -24.68	Remark Peak Peak Peak Peak Peak	
Туре		802	2.11g	Test cl	Test channel CH06				Polarity	Vertical		
	Mark 1 2 3 4	Frequer MHz 1894.45 3607.26 4871.10 8042.90	dBuV/m 36.42 32.49 35.93	Antenna dB 25.78 29.40 31.40 37.19	Cable dB 6.52 10.08 11.51 14.28	Preamp dB 37.00 36.96 35.16 33.31	dB 0.00 0.00 0.00	Level dBuV/ 31.72 35.01 43.68 48.48		Over limi -42.28 -38.99 -30.32 -25.52	t Peak Peak Peak	
Туре		802	2.11g	Test cl	hannel	CH	11		Polarity		Horizontal	
-	Mark 1 2 3 4	Freque MHz 1286.61 3598.09 4920.96 8022.46	32.21 38.03	dB 25.97 29.40	dB 5.38 10.09 11.51	Preamp dB 36.35 36.93 35.21 33.31	dB 0.00 0.00 0.00	Level dBuV/ 28.29 34.77 45.77 48.19	m dBuV/m 74.00 74.00 74.00	-45.71 -39.23	it L Peak 3 Peak 3 Peak	
Туре		802	2.11g	Test cl	hannel	CH	11		Polarity		Vertical	
-	Mark 1 2	Freque MHz 1260.67 3607.26		dB 25.92	dB 5.29	dB	dB 0.00	Level dBuV/ 28.60 35.46	m dBuV/m 74.00	Over limi -45.40 -38.54	t Peak	
	2 3 4	4920.96 8125.22	34.51	31.44 37.10		35.21	0.00	42.25	74.00	-31.75	Peak	

Туре			802.11	n(HT20)	Test cl	Test channel CH01					Polarity		
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Prea dB	amp Aux dB	Leve dBuV		Over limi		
	1 2	1216 3112	5.53	34.24 33.92	25.70 29.00	5.15		2 0.00		/m dBuV/m 74.00 74.00	-45.53	Peak	
	3 4	4821 7961		39.60 29.85	31.40 36.95	11.52 14.41			47.28 47.89	74.00 74.00			
Туре	80		802.11	n(HT20)	Test cl	hannel	(CH01		Polarity		Vertical	
	Mark	Mark Frequency Reading MHz dBuV/m		dB	dB	dB	dB	Leve] dBuV/	/m dBuV/m	Remark t			
	1 2		7.19 3.21	35.62 33.82	25.40 28.77		36.88		29.12 35.24	74.00 74.00	-44.88 -38.76		
	3	4821	L.76	35.49	31.40		35.24		43.17	74.00	-30.83	Peak	
	4	7961	L.43	30.65	36.95	14.41	33.32	2 0.00	48.69	74.00	-25.31	Peak	
Туре			802.11	n(HT20)	Test cl	hannel	0	CH06		Polarity		Horizontal	
	Mark		quency Hz	Reading dBuV/m	Antenna dB	Cable dB	Prea dB	amp Aux dB	Leve] dBuV/		Over limi	Remark t	
	1	1263			25.93		36.44		29.07	74.00			
	2	3588 4871		31.76 38.82	29.38 31.40	10.03 11.51			34.27 46.57	74.00 74.00			
	4	7981		30.31	37.03	14.35					-27.45		
Туре			802.11	n(HT20)	Test channel			CH06		Polarity		Vertical	
	Mark	En	equency	Reading	Antenna	Cable	Pre	amp Aux	Leve	l Limit	Over	r Remark	
	That is		MHz	dBuV/m	dB	dB	dB		dBuV				
	1		1114							,			
			3.34	33.49	25.97	5.37	36.3			74.00	-45.53	3 Peak	
	2	396	3.34 3.52	31.80	29.90	10.10	36.4	6 0.00	35.34	74.00 74.00	-45.53 -38.60	8 Peak 5 Peak	
	2 3 4	3963 4873	3.34				36.4 35.1	6 0.00 6 0.00	35.34	74.00 74.00 74.00	-45.53 -38.60 -29.13	8 Peak 5 Peak 7 Peak	
Туре	3	3963 4873	3.34 3.52 1.10 3.40	31.80 37.08	29.90 31.40 37.20	10.10 11.51	36.4 35.1 33.3	6 0.00 6 0.00	35.34 44.83	74.00 74.00 74.00	-45.53 -38.60	8 Peak 5 Peak 7 Peak	
Туре	3 4	3963 4873 8063	3.34 3.52 1.10 3.40 802.11 equency	31.80 37.08 29.80 n(HT20) Reading	29.90 31.40 37.20 Test cl	10.10 11.51 14.28 hannel	36.4 35.1 33.3 (Pre	6 0.00 6 0.00 2 0.00 CH11 amp Aux	35.34 44.83 47.96 Leve	74.00 74.00 74.00 74.00 Polarity	-45.53 -38.66 -29.13 -26.04	B Peak Peak Peak Peak Horizontal Remark	
Туре	3 4	396: 487: 806: : Fro	3.34 3.52 1.10 3.40 802.11	31.80 37.08 29.80 n(HT20) Reading	29.90 31.40 37.20 Test cl	10.10 11.51 14.28 hannel	36.4 35.1 33.3 (Pre dB	6 0.00 6 0.00 2 0.00 CH11 amp Aux dB	35.34 44.83 47.96	74.00 74.00 74.00 74.00 Polarity	-45.5: -38.60 -29.11 -26.04 Over limi	B Peak Peak Peak Peak Horizontal Remark	
Туре	3 4 Mark 1 2	396: 487: 806: English 132: 411	3.34 3.52 1.10 3.40 802.11 equency MHz	31.80 37.08 29.80 n(HT20) Reading dBuV/m 33.80 32.02	29.90 31.40 37.20 Test cl Antenna dB 26.16 30.00	10.10 11.51 14.28 hannel Cable dB 5.45 10.21	36.4 35.1 33.3 (Pre dB 36.3 36.2	6 0.00 6 0.00 2 0.00 CH11 amp Aux dB 6 0.00 8 0.00	35.34 44.83 47.96 Leve dBuV 29.05 35.95	74.00 74.00 74.00 74.00 74.00 74.00 1 Limit /m dBuV/m 74.00 74.00	-45.53 -38.66 -29.17 -26.04 Over limi -44.95 -38.05	3 Peak 5 Peak 7 Peak 4 Peak Horizontal Remark t Peak Peak	
Туре	3 4 Mark 1 2 3	396: 487: 806: English 132: 411: 492:	3.34 3.52 1.10 3.40 802.11 equency MHz 6.51 7.79 0.96	31.80 37.08 29.80 n(HT20) Reading dBuV/m 33.80 32.02 38.49	29.90 31.40 37.20 Test cl Antenna dB 26.16 30.00 31.44	10.10 11.51 14.28 nannel Cable dB 5.45 10.21 11.51	36.4 35.1 33.3 (Pre dB 36.3 36.2 35.2	6 0.00 6 0.00 2 0.00 CH11 	35.34 44.83 47.96 Leve dBuV 29.05 35.95 46.23	74.00 74.00 74.00 74.00 74.00 74.00 1 Limit /m dBuV/m 74.00 74.00 74.00 74.00	-45.53 -38.66 -29.13 -26.04 Over limi -44.95 -38.05 -27.77	3 Peak 5 Peak 7 Peak 4 Peak Horizontal Remark t Peak Peak Peak	
	3 4 Mark 1 2	396: 487: 806: English 132: 411: 492:	3.34 3.52 1.10 3.40 802.11 equency MHz 6.51 7.79 0.96 2.46	31.80 37.08 29.80 n(HT20) Reading dBuV/m 33.80 32.02 38.49 30.14	29.90 31.40 37.20 Test cl Antenna dB 26.16 30.00 31.44 37.14	10.10 11.51 14.28 hannel Cable dB 5.45 10.21 11.51 14.29	36.4 35.1 33.3 (Pre dB 36.3 36.2 35.2 33.3	6 0.00 6 0.00 2 0.00 CH11 amp Aux dB 6 0.00 8 0.00 1 0.00 1 0.00	35.34 44.83 47.96 Leve dBuV 29.05 35.95	74.00 74.00 74.00 Polarity 1 Limit /m dBuV/m 74.00 74.00 74.00 74.00	-45.53 -38.66 -29.17 -26.04 Over limi -44.95 -38.05	3 Peak 5 Peak 7 Peak 4 Peak 4 Morizontal 8 Morizontal 7 Memark 4 Peak 9 Peak 9 Peak 9 Peak 9 Peak	
Туре	3 4 Mark 1 2 3	396: 487: 806: English 132: 411: 492:	3.34 3.52 1.10 3.40 802.11 equency MHz 6.51 7.79 0.96 2.46	31.80 37.08 29.80 n(HT20) Reading dBuV/m 33.80 32.02 38.49	29.90 31.40 37.20 Test cl Antenna dB 26.16 30.00 31.44 37.14	10.10 11.51 14.28 nannel Cable dB 5.45 10.21 11.51	36.4 35.1 33.3 (Pre dB 36.3 36.2 35.2 33.3	6 0.00 6 0.00 2 0.00 CH11 	35.34 44.83 47.96 Leve dBuV 29.05 35.95 46.23	74.00 74.00 74.00 74.00 74.00 74.00 1 Limit /m dBuV/m 74.00 74.00 74.00 74.00	-45.53 -38.66 -29.13 -26.04 Over limi -44.95 -38.05 -27.77	3 Peak 5 Peak 7 Peak 4 Peak Horizontal Remark t Peak Peak Peak	
	3 4 Mark 1 2 3 4	396: 487: 806: 806: 132: 411: 492: 802: Free	8.34 3.52 1.10 3.40 802.11 equency MHz 6.51 7.79 0.96 2.46 802.11 equency Hz	31.80 37.08 29.80 n(HT20) Reading dBuV/m 33.80 32.02 38.49 30.14 n(HT20) Reading dBuV/m	29.90 31.40 37.20 Test cl Antenna dB 26.16 30.00 31.44 37.14 Test cl Antenna dB	10.10 11.51 14.28 hannel Cable dB 5.45 10.21 11.51 14.29 hannel Cable dB	36.4 35.1 33.3 (Pre dB 36.3 36.2 35.2 35.2 33.3 (Pre dB	6 0.00 6 0.00 2 0.00 CH11 amp Aux dB 6 0.00 8 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00 1 0.00	35.34 44.83 47.96 Leve dBuV 29.05 35.95 46.23 48.26 Leve dBuV	74.00 74.00 74.00 74.00 74.00 1 Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	-45.53 -38.66 -29.13 -26.04 Over limi -44.95 -38.05 -27.77 -25.74 Over limi	B Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak Peak Peak Remark	
	3 4 Mark 1 2 3 4 Mark 1	396: 487: 806: 132: 411: 492: 802: Free N 1228:	3.34 3.52 1.10 3.40 802.11 equency MHz 6.51 7.79 0.96 2.46 802.11 equency Hz 8.98	31.80 37.08 29.80 n(HT20) Reading dBuV/m 33.80 32.02 38.49 30.14 n(HT20) Reading dBuV/m 33.71	29.90 31.40 37.20 Test cl Antenna dB 26.16 30.00 31.44 37.14 Test cl Antenna dB 25.78	10.10 11.51 14.28 hannel Cable dB 5.45 10.21 11.51 14.29 hannel Cable dB 5.19	36.4 35.1 33.3 (Pre dB 36.3 36.2 35.2 35.2 35.2 35.3 3 36.5 (Pre dB 36.5	6 0.00 6 0.00 2 0.00 2 0.00 CH11 amp Aux dB 6 0.00 8 0.00 1 0.00 1 0.00 CH11 CH11 Amp Aux dB 8 0.00	35.34 44.83 47.96 Leve dBuV 29.05 35.95 46.23 48.26 Leve dBuV 28.10	74.00 74.00 74.00 74.00 74.00 1 Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	-45.53 -38.60 -29.13 -26.04 Over limi -44.95 -38.05 -27.77 -25.74 Over limi -45.90	B Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak Peak Peak Peak	
	3 4 Mark 1 2 3 4	396: 487: 806: 806: 132: 411: 492: 802: Free	3.34 3.52 1.10 3.40 802.11 equency MHz 6.51 7.79 0.96 2.46 802.11 equency Hz 3.98 0.96	31.80 37.08 29.80 n(HT20) Reading dBuV/m 33.80 32.02 38.49 30.14 n(HT20) Reading dBuV/m	29.90 31.40 37.20 Test cl Antenna dB 26.16 30.00 31.44 37.14 Test cl Antenna dB	10.10 11.51 14.28 hannel Cable dB 5.45 10.21 11.51 14.29 hannel Cable dB	36.4 35.1 33.3 (Pre dB 36.3 36.2 35.2 33.3 (Pre dB 36.5 35.2	6 0.00 6 0.00 2 0.00 2 0.00 CH11 amp Aux dB 6 0.00 8 0.00 1 0.00 CH11 CH11 Amp Aux dB 8 0.00 1 0.00	35.34 44.83 47.96 Leve dBuV 29.05 35.95 46.23 48.26 Leve dBuV 28.10	74.00 74.00 74.00 74.00 74.00 1 Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00	-45.53 -38.66 -29.13 -26.04 Over limi -44.95 -38.05 -27.77 -25.74 Over limi -45.96 -29.77	B Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak Peak Peak Peak	

6. TEST SETUP PHOTOS

Radiated Emission



AC Conducted Emission



7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No. : CHTEW21040062..

8. APPENDIX REPORT