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TEST REPORT

Report No.:: Report Verification: CHTEW20020026

SHT1912068505EW Project No.....:

FCC ID.....:: 2ADE3NMC002

Applicant's name.....: WUXI IDATA TECHNOLOGY COMPANY LTD.

Address....: Floor 11, Building B1, Wuxi Binhu National Sensing Information

Center, No. 999 Gaolang East Road, Wuxi, China

Manufacturer....: WUXI IDATA TECHNOLOGY COMPANY LTD.

Address....: Floor 11, Building B1, Wuxi Binhu National Sensing Information

Center, No. 999 Gaolang East Road, Wuxi, China

Test item description:: **New Mobile Computer**

Trade Mark: iData

Model/Type reference....: iData 50

Listed Model(s): See page 3 of the report

Standard:: FCC CFR Title 47 Part 15 Subpart C Section 15.247

Date of receipt of test sample.....: Dec.20, 2019

Date of testing..... Dec.21, 2019- Feb.25, 2020

Date of issue..... Feb.26, 2020

Result.....: **PASS**

Compiled by

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Approved by

(Position+Printed name+Signature): RF Manager Hans Hu

Testing Laboratory Name:: Shenzhen Huatongwei International Inspection Co., Ltd.

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The test report merely correspond to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- FCC Rules Part 15.247: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices
- 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	2020-02-26	Original

Listed Model(s):

iData 50P,iData 50S,iData 50T,iData 50 Pro,iData 50 Plus,iData 55F,iData 55HC,iData 55HC,iData 55HC Pro,iData 55HC Plus,iData 50 5G,Q5000,iData Q5000,iData Q5000 Plus,iData Q5000 Pro,iData 1500,iData 55,55HC,iData 1500-YH,QS-I50P,RF-RW316,SPD50,NBP-60,MT6550,NX2,A50BDT,SPD55,QCC S8,HYE 920,PT500,PT500UHF,XT-GZ1005,XT-GZ1008,KP 60P

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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	N/A	N/A
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.

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3. **SUMMARY**

3.1. Client Information

Applicant:	WUXI IDATA TECHNOLOGY COMPANY LTD.
Address:	Floor 11, Building B1, Wuxi Binhu National Sensing Information Center, No. 999 Gaolang East Road, Wuxi, China
Manufacturer:	WUXI IDATA TECHNOLOGY COMPANY LTD.
Address:	Floor 11,Building B1,Wuxi Binhu National Sensing Information Center,No.999 Gaolang East Road,Wuxi ,China

3.2. Product Description

Name of EUT:	New Mobile Computer
Trade Mark:	iData
Model No.:	iData 50
Listed Model(s):	See page 3 of the report
Power supply:	DC 3.8V
Hardware version:	M102
Software version:	A5P_V400R001C01B016_EN06

3.3. Radio Specification Description

Support type ^{*2} :	802.11b, 802.11g, 802.11n(HT20), 802.11n(H4T0)
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)/802.11n(HT40)
Operation frequency:	2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20) 2422MHz~2452MHz for 802.11n(HT40)
Channel number:	11 for 802.11b/802.11g/802.11n(HT20) 9 for 802.11n(HT40)
Channel separation:	5MHz
Antenna type:	PIFA Antenna
Antenna gain:	-1dBi

Note:

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

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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		
	Туре	Accreditation Number	
	CNAS	L1225	
Qualifications	A2LA	3902.01	
	FCC	762235	
	Canada	5377A	

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

4.2. 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
802.11n(HT40)	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.

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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.

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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	2019/10/26	2020/10/25						
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2019/10/23	2020/10/22						
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2019/10/23	2020/10/22						
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2019/10/23	2020/10/22						
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A						

•	Radiated emiss	sion-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	2019/10/26	2020/10/25
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2018/04/02	2021/04/01
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0119	VULB9163	546	2017/04/05	2020/04/04
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2019/11/14	2020/11/13
•	RF Connection Cable	HUBER+SUHNER	HTWE0062- 01	N/A	N/A	2019/08/21	2020/08/20
•	RF Connection Cable	HUBER+SUHNER	HTWE0062- 02	SUCOFLEX 104	501184/4	2019/05/27	2020/05/26
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emis	sion-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	2019/10/26	2020/10/25
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2017/04/01	2020/03/31
•	Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	25841	2017/03/27	2020/03/26
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/10
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2019/11/14	2020/11/13
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2019/05/23	2020/05/22
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2019/05/10	2020/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2019/05/10	2020/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-03	6m 3GHz RG Serisa	N/A	2019/05/10	2020/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2019/05/10	2020/05/09
•	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2019/05/10	2020/05/09
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

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•	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	2019/10/26	2020/10/25
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2019/10/26	2020/10/25
•	Power Meter	Anritsu	ML249A	N/A	2019/10/26	2020/10/25
0	Radio communication tester	R&S	CMW500	137688-Lv	2019/10/26	2020/10/25

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5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

Requirement

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

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

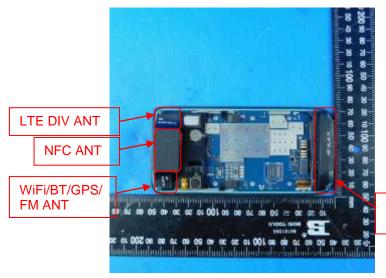
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

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



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5.2. AC Conducted Emission

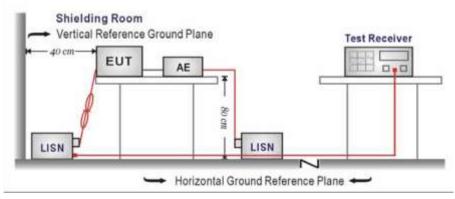
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fraguenov rango (MHz)	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

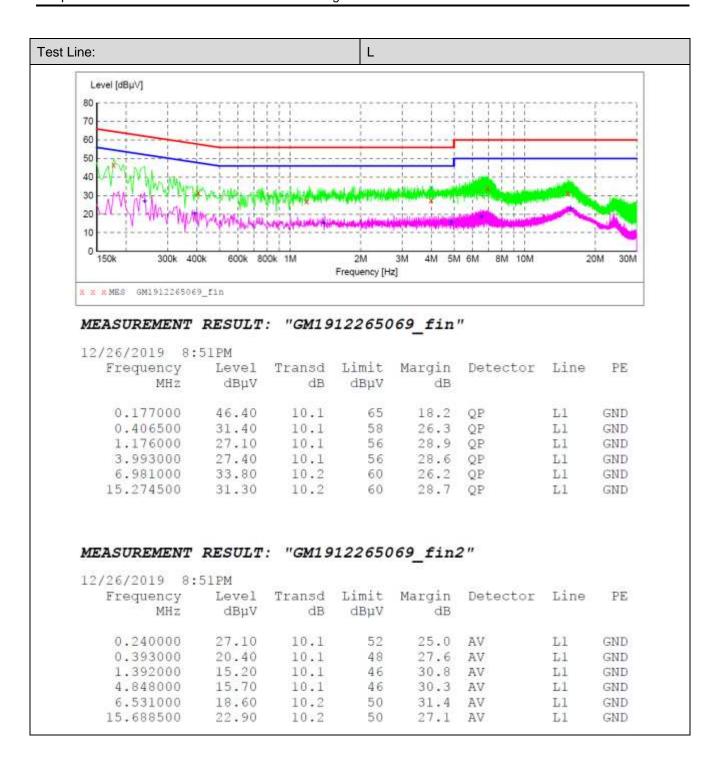
- 1. The EUT was setup according to ANSI C63.10 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
- 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:

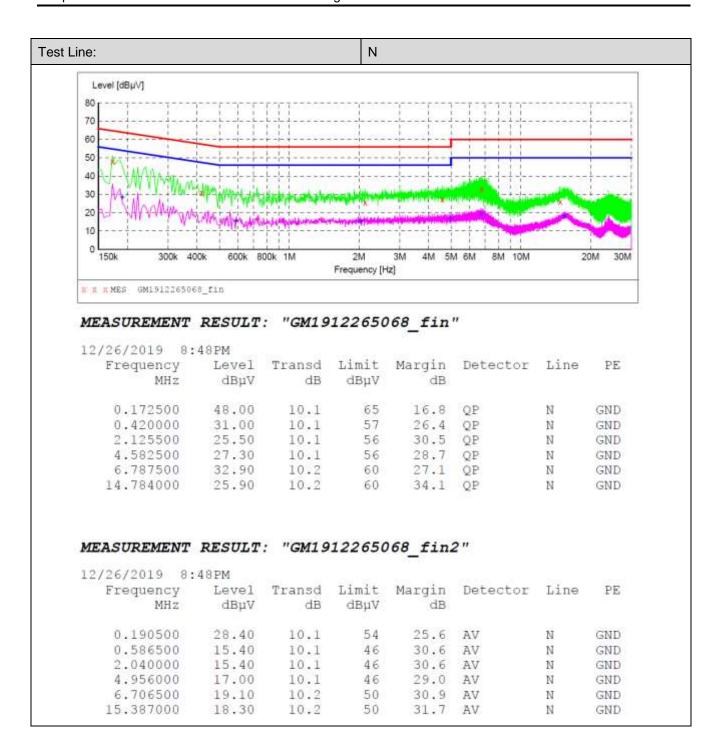
Please refer to the clause 4.2

TEST RESULT

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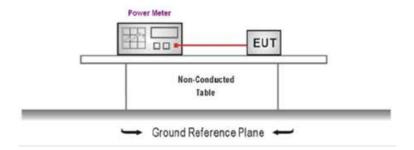
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5.3. Peak Output Power

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

TEST Data

Please refer to appendix A on the appendix report

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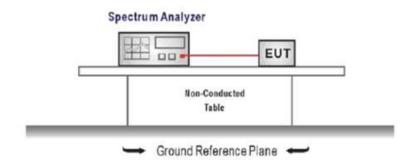
5.4. Power Spectral Density

LIMIT

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

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

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input,
- Configure the spectrum analyzer as shown below:

Center frequency=DTS channel center frequency

Span =1.5 times the DTS bandwidth

RBW = $3 \text{ kHz} \le \text{RBW} \le 100 \text{ kHz}$, VBW $\ge 3 \times \text{RBW}$

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

TEST Data

Please refer to appendix B on the appendix report

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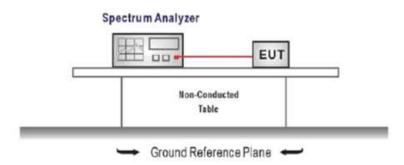
5.5. 6dB bandwidth

LIMIT

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

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

TEST CONFIGURATION



TEST PROCEDURE

- 1. Connect the antenna port(s) to the spectrum analyzer input.
- 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 ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

- 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

TEST Data

Please refer to appendix C on the appendix report

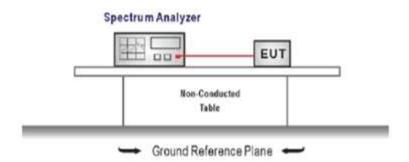
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5.6. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

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

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

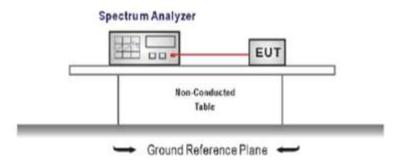
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5.7. Duty Cycle

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

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

TEST MODE:

Please refer to the clause 4.2

TEST Data

Please refer to appendix D on the appendix report

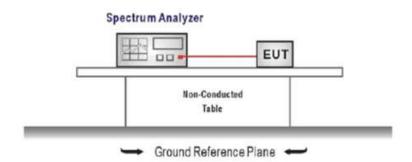
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5.8. Conducted Band edge and Spurious Emission

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.
- 2. Establish a reference level by using the following procedure

Center frequency=DTS channel center frequency

The span = 1.5 times the DTS bandwidth.

RBW = 100 kHz, VBW ≥ 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 ≥ 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

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TEST	RESUL	Γ
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 $oxed{oxed}$ Passed $oxed{oxed}$ Not Applicable

TEST Data

Please refer to appendix E on the appendix report

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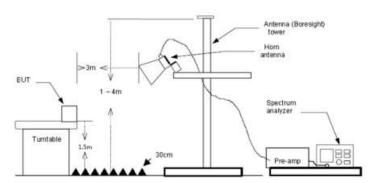
5.9. Radiated Band edge Emission

LIMIT

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

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

TEST CONFIGURATION



TEST PROCEDURE

- 1. The EUT was setup and tested according to ANSI C63.10.
- 2. The EUT is placed on a turn table which is 1.5 meter above ground. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
- 3. The EUT waspositioned such that the distance from antenna to the EUT was 3 meters.
- 4. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. Thisis 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.
- 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

Note:

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

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Туре		802.11b		Test channel		CH01	CH01		larity	Horizonta	I
	Freq. [MHz]	Reading [dBµV/m]	Facto		Level [dBµV/m]	Limit [dBµV/m]	Margii [dB]		Polarity	Detector	
	2310.000	28.61	17.66	6	46.27	74.00	27.73	}	Horizontal	PK	
	2310.000	25.33	17.66	6	42.99	54.00	11.01		Horizontal	AV	
	2390.009	27.68	17.59	9	45.27	74.00	28.73	3	Horizontal	PK	
	2390.009	25.23	17.59	9	42.82	54.00	11.18	3	Horizontal	AV	
Туре		802.11b	7	Test cl		CH01	CH01		larity	Vertical	
	Freq. [MHz]	Reading [dBµV/m]	Facto [dB]		Level [dBµV/m]	Limit [dBµV/m]	Marg [dB]		Polarity	Detector	
	2310.000	28.04	17.66	6	45.70	74.00	28.3	0	Vertical	PK	
	2310.000	25.56	17.66	6	43.22	54.00	10.7	8	Vertical	AV	
	2390.009	24.47	17.59	9	42.06	54.00	11.9	4	Vertical	AV	
	2390.009	27.31	17.59	9	44.90	74.00	29.1	n	Vertical	PK	

Туре		802.11b	٦	Test channel		CH11	CH11		arity	Horizonta	I
	Freq. [MHz]	Reading [dBµV/m]	Facto [dB]		Level [dBµV/m]	Limit [dBµV/m]	Marg [dB]		Polarity	Detector	
	2483.514	28.70	17.85	5	46.55	74.00	27.4	5	Horizontal	PK	
	2483.514	26.89	17.85	5	44.74	54.00	9.26	ò	Horizontal	AV	
	2500.000	27.87	17.90	0	45.77	74.00	28.2	3	Horizontal	PK	
	2500.000	25.00	17.90	0	42.90	54.00	11.10		Horizontal	AV	
Туре		802.11b	1	Test cl	hannel	CH11		Pol	arity	Vertical	
	Freq. [MHz]	Reading [dBµV/m]	Facto [dB]		Level [dBµV/m]	Limit [dBµV/m]	Marg [dB]		Polarity	Detector	
	2483.514	28.13	17.85	5	45.98	74.00	28.0	2	Vertical	PK	
	2483.514	23.95	17.85	5	41.80	54.00	12.2	0	Vertical	AV	
	2500.000	27.40	17.90	0	45.30	74.00	28.7	0	Vertical	PK	
	2500.000	24.12	17.90	0	42.02	54.00	11.98		Vertical	AV	

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Туре		802.11g	802.11g Test		channel CH01		Polarity	Horizontal		
	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margii [dB]	n Polarity	Detector		
	2310.000	27.73	17.66	45.39	74.00	28.61	Horizontal	PK		
	2310.000	24.68	17.66	42.34	54.00	11.66	Horizontal	AV		
	2390.009	35.91	17.59	53.50	74.00	20.50	Horizontal	PK		
	2390.009	30.27	17.59	47.86	54.00	6.14	Horizontal	AV		
Туре		802.11g	Test	channel	CH01		Polarity	Vertical		
	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµ√/m]	Limit [dBµV/m]	Margir [dB]	Polarity	Detector		
	2310.000	28.33	17.66	45.99	74.00	28.01	Vertical	PK		
	2310.000	24.96	17.66	42.62	54.00	11.38	Vertical	AV		
	2390.009	30.65	17.59	48.24	74.00	25.76	Vertical	PK		
	2390.009	26.36	17.59	43.95	54.00	10.05	Vertical	AV		

Туре		802.11g	Test	channel	CH11	Po	larity	Horizontal		
	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector		
	2483.514	38.26	17.85	56.11	74.00	17.89	Horizontal	PK		
	2483.514	32.42	17.85	50.27	54.00	3.73	Horizontal	AV		
	2500.000	28.41	17.90	46.31	74.00	27.69	Horizontal	PK		
	2500.000	24.61	17.90	42.51	54.00	11.49	Horizontal	AV		
Туре		802.11g	Test	channel	CH11	Po	larity	Vertical		
	Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector	Detector	
	2483.514	31.54	17.85	49.39	74.00	24.61	Vertical	PK		
	2483.514	28.10	17.85	45.95	54.00	8.05	Vertical	AV		
	2500.000	24.41	17.90	42.31	54.00	11.69	Vertical	AV		
	2500.000	28.23	17.90	46.13	74.00	27.87	Vertical	PK		

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Туре		802.11n(H	Γ20)	Test	channel	CH01		Pol	larity	Horizonta	al
	Freq. [MHz]	Reading [dBµV/m]	Fac		Level [dBµV/m]	Limit [dBµV/m]	Margi [dB]		Polarity	Detector	
	2310.000	28.60	17.	.66	46.26	74.00	27.74	4	Horizontal	PK	
	2310.000	24.86	17.	.66	42.52	54.00	11.48	3	Horizontal	AV	
	2390.009	40.43	17.	.59	58.02	74.00	15.98	3	Horizontal	PK	
	2390.009	33.05	17.	.59	50.64	54.00	3.36		Horizontal	AV	
Туре		802.11n(H ⁻	Γ20)	Test	channel	CH01	CH01		larity	Vertical	
	Freq. [MHz]	Reading [dBµV/m]		ctor B]	Level [dBµV/m]	Limit [dBµV/m]	Marg [dB]		Polarity	Detector	
	2310.000	28.65	17.	.66	46.31	74.00	27.6	9	Vertical	PK	
	2310.000	24.65	17.	.66	42.31	54.00	11.6	9	Vertical	AV	
	2390.009	31.19	17.	.59	48.78	74.00	25.2	2	Vertical	PK	
	2390.009	26.54	17.	.59	44.13	54.00	9.87	7	Vertical	AV	

Туре		802.11n(H	T20)	Test	channel	CH11		Po	larity	Horizonta	ıl
•	Freq. [MHz]	Reading [dBµV/m]	Fac		Level [dBµV/m]	Limit [dBµV/m]	Marg [dB]		Polarity	Detector	
	2483.514	43.55	17.	.85	61.40	74.00	12.6	0	Horizontal	PK	
	2483.514	32.64	17.	.85	50.49	54.00	3.51	1	Horizontal	AV	
	2500.000	29.54	17.	.90	47.44	74.00	26.5	6	Horizontal	PK	
	2500.000	26.32	17.	90	44.22	54.00	9.78	3	Horizontal	AV	
Туре		802.11n(H	T20)	Test	channel	CH11		Po	larity	Vertical	
	Freq. [MHz]	Reading [dBµV/m]	Fac		Level [dBµV/m]	Limit [dBµV/m]	Marg [dB]		Polarity	Detector	
•	2483.514	33.22	17.	.85	51.07	74.00	22.9	3	Vertical	PK	
•	2483.514	27.54	17.	.85	45.39	54.00	8.61	ı	Vertical	AV	
·	2500.000	28.13	17.	90	46.03	74.00	27.9	7	Vertical	PK	
	2500.000					54.00		7	Vertical	AV	

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Туре		802.11n(H	Γ40)	Test	channel	CH03		Pol	larity	Horizonta	l
	Freq.	Reading	Fac	tor	Level	Limit	Marg	in	Dolority	Detector	
	[MHz]	[dBµV/m]	[di	3]	[dBµV/m]	[dBµV/m]	[dB]]	Polarity	Detector	
	2310.000	27.62	17.	66	45.28	74.00	28.7	2	Horizontal	PK	
	2310.000	21.45	17.	66	39.11	54.00	14.8	9	Horizontal	AV	
	2390.036	37.41	17.	59	55.00	74.00	19.0	0	Horizontal	PK	
	2390.036	28.44	17.	59	46.03	54.00	7.97	7	Horizontal	AV	
Туре		802.11n(H ⁻	Γ40)	Test	channel	CH03		Pol	larity	Vertical	
	Freq.	Reading	Fac	tor	Level	Limit	Marg	jin			
	[MHz]	[dBµV/m]	[dl	B]	[dBµV/m]	[dBµV/m]	[dB]	Polarity	Detector	
	2310.000	26.67	17.	66	44.33	74.00	29.6	7	Vertical	PK	
	2310.000	20.01	17.	66	37.67	54.00	16.3	3	Vertical	AV	
	2390.036	22.89	17.	59	40.48	54.00	13.5	2	Vertical	AV	
	2390.036	31.22	17.		48.81	74.00	25.1	0	Vertical	PK	

Туре		802.11n(H	Γ40)	Test	channel	CH09		Pol	arity	Horizonta	l
	Freq. [MHz]	Reading [dBµV/m]	Fac [d		Level [dBµV/m]	Limit [dBµV/m]	Marg [dB]		Polarity	Detector	
	2483.517	29.58	17.	.85	47.43	74.00	26.5	7	Horizontal	PK	
	2483.517	23.70	17.	.85	41.55	54.00	12.4	5	Horizontal	AV	
	2500.000	28.31	17.	.90	46.21	74.00	27.7	9	Horizontal	PK	
	2500.000	20.70	17.	.90	38.60	54.00	15.4	0	Horizontal	AV	
Туре		802.11n(H	Γ40)	Test	channel	CH09		Pol	arity	Vertical	
	Freq. [MHz]	Reading [dBµV/m]		ctor B]	Level [dBµV/m]	Limit [dBµV/m]	Marg [dB]		Polarity	Detector	
	2483.517	27.54	17	.85	45.39	74.00	28.6	1	Vertical	PK	
	2483.517	20.66	17	.85	38.51	54.00	15.4	9	Vertical	AV	
	2500.000	26.75	17	.90	44.65	74.00	29.3	5	Vertical	PK	
	2500.000	20.41	17	.90	38.31	54.00	15.6	9	Vertical	AV	

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5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

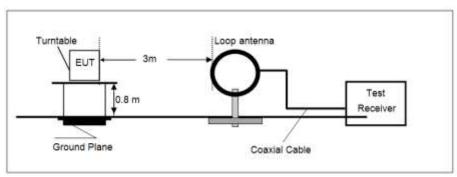
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

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.

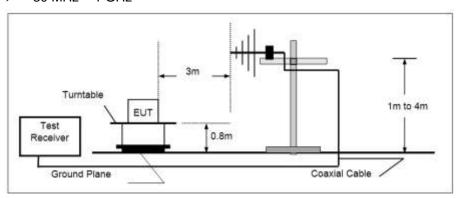
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

TEST CONFIGURATION

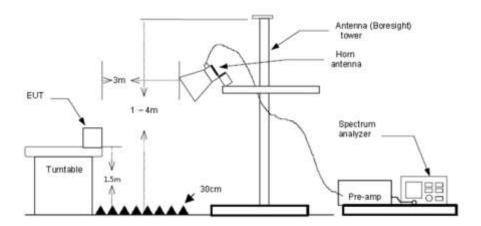
→ 9 kHz ~ 30 MHz



> 30 MHz ~ 1 GHz



Above 1 GHz



TEST PROCEDURE

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

RBW=120 kHz, VBW=300 kHz, Sweep=auto, Detector function=peak, Trace=max hold; If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

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

For average measurement:

- VBW=10Hz, When duty cycle is no less than 98 percent
- VBW≥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

Note:

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

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TEST DATA FOR 9 kHz ~ 30 MHz

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

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.

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Polarization: Horizontal Level [dBµV/m] 80 70 50 40 30 20 10 50M 60M 70M 200M 300M 400M 500M 600M 40M Frequency [Hz] x x x MES GM1912276129_red MEASUREMENT RESULT: "GM1912276129 red" 12/27/2019 10:52PM Level Transd Limit Margin Det. Height Azimuth Polarization Frequency MHz dBuV/m dB dBuV/m dB Cm. deg 300.0 45.00 HORIZONTAL 176.00 HORIZONTAL 23.20 -8.6 53.280000 40.0 16.8 QP 6.0 QP 7.9 QP 90.140000 37.50 -12.0 43.5 300.0 56.00 HORIZONTAL 117.300000 35.60 -11.3 43.5 250.00 HORIZONTAL 119.00 HORIZONTAL 156.100000 33.20 10.3 QP 100.0 -13.0 43.5 QP 336,520000 28.60 -5.446.0 17.4 100.0 910.760000 36.00 7.4 46.0 10.0 QP 300.0 360.00 HORIZONTAL Polarization: Vertical Level [dBµV/m] 80 70 60 50 40 30 20 10 0 30M 40M 50M 60M **DM 600M** 800M 1G Frequency [Hz] x x x ME5 GM1912276128 red MEASUREMENT RESULT: "GM1912276128 red" 12/27/2019 10:49PM Level Transd Limit Margin Det. Height Azimuth Polarization Frequency MHZ dBµV/m dB dBµV/m dB 40.0 7.4 QP 40.0 4.3 QP 43.5 3.7 QP 43.5 4.4 QP 31.940000 32.60 -12.7 100.0 239.00 VERTICAL 40.0 4.3 QP 100.0 172.00 VERTICAL 43.5 3.7 QP 100.0 212.00 VERTICAL 43.5 4.4 QP 100.0 227.00 VERTICAL 46.0 16.6 QP 100.0 332.00 VERTICAL 46.0 11.1 QP 100.0 0.00 VERTICAL 64.920000 35.70 -11.0 39.80 92.080000 -11.439.10 -13.0 156.100000 0.2 7.9 29.40 551.860000

34.90

937,920000

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TEST DATA FOR 1 GHz ~ 25 GHz

ype				802.11b		Т	est cl	hannel		CH00
Freq [MHz	8	Readir dBµV/i		Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	1	Margin [dB]	Polarity	Detector
1190.9	37	34.26	3	-5.93	28.33	74.00		45.67	Vertical	PK
3173.7	50	32.78	3	0.70	33.48	74.00		40.52	Vertical	PK
4823.1	56	41.13	3	7.08	48.21	74.00		25.79	Vertical	PK
7234.8	143	35.79		15.01	50,80	54.00		3.20	Vertical	AV
7234.8	43	40.50		15.01	55.51	74.00		18.49	Vertical	PK
NO.	Freq.		Reading	Facto [dB]	r Leve			Margin [dB]	Polarity	Detector
1	1220.3	12	33.83	-5.78	28.05	74.0	00	45.95	Horizontal	PK
2	3157.59	93	31.63	0.62	32.25	74.0	00	41.75	Horizontal	PK
3	4824.62	25	44.33	7.08	51.4	74.0	00	22.59	Horizontal	PK
4	7234.84	13	32.92	15.01	47.93	3 54.0	00	6.07	Horizontal	AV
5	7237.78	31	38.45	15.01	53.46	3 74.0	00	20.54	Horizontal	PK

уре		802.11	b	Te	est channel		CH07
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1186.531	34.19	-5.97	28.22	74.00	45.78	Horizontal	PK
3182.562	31.93	0.75	32.68	74.00	41.32	Horizontal	PK
4874.562	40.57	7.15	47.72	74.00	26.28	Horizontal	PK
7309.750	34.65	15.08	49.73	54.00	4.27	Horizontal	AV
7312.687	40.45	15.09	55.54	74.00	18.46	Horizontal	PK
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1226.187	33.43	-5.76	27.67	74.00	46.33	Vertical	PK
3112.062	32.37	0.38	32.75	74.00	41.25	Vertical	PK
4874.562	37.21	7.15	44.36	74.00	29.64	Vertical	PK
7309.750	40.03	15.08	55.11	74.00	18.89	Vertical	PK
7309.750	34.86	15.08	49.94	54.00	4.06	Vertical	AV

ype		802.11	lb		Test channel		CH11
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1130.718	33.98	-6.56	27.42	74.00	46,58	Vertical	PK
3172.281	32.04	0.70	32.74	74.00	41.26	Vertical	PK
4924.500	34.20	7.34	41.54	74.00	32.46	Vertical	PK
7387.593	38.59	15.33	53.92	74.00	20.08	Vertical	PK
7387.593	33.07	15.33	48.40	54.00	5.60	Vertical	AV
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1233.531	33.38	-5.74	27.64	74.00	46.36	Horizontal	PK
3181.093	32.46	0.74	33.20	74.00	40.80	Horizontal	PK
4802.593	30.09	7.05	37.14	74.00	36.86	Horizontal	PK
6880.875	29.19	13.93	43.12	74.00	30.88	Horizontal	PK

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ype		802.110	9	Te	st channel		CH00
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1199,750	33.78	-5.83	27.95	74.00	46.05	Horizonta	I PK
3144.375	31.42	0.55	31.97	74.00	42.03	Horizonta	I PK
4817.281	37.97	7.07	45.04	74.00	28.96	Horizonta	I PK
7237.781	37.01	15.01	52.02	74.00	21.98	Horizonta	l PK
7239.250	26.33	15.01	41.34	54.00	12.66	Horizonta	I AV
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1207.093	32.88	-5.81	27.07	74.00	46.93	Vertical	PK
3139.968	32.08	0.53	32.61	74.00	41.39	Vertical	PK
4827.562	35.89	7.09	42.98	74.00	31.02	Vertical	PK
7236.312	37.63	15.01	52.64	74.00	21.36	Vertical	PK
7236.312	28.59	15.01	43.60	54.00	10.40	Vertical	AV

уре		802.110	9	Test	channel		CH07
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1179,187	33.99	-6.05	27.94	74.00	46,06	Vertical	PK
3173.750	31.51	0.70	32.21	74.00	41.79	Vertical	PK
4874.562	33.20	7.15	40.35	74.00	33.65	Vertical	PK
7308.281	36.74	15.08	51.82	74.00	22.18	Vertical	PK
7308.281	28.14	15.08	43,22	54.00	10.78	Vertical	AV
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1189.468	33.79	-5.94	27.85	74.00	46.15	Horizontal	PK
3144.375	31.33	0.55	31.88	74.00	42.12	Horizontal	PK
4876.031	36,05	7.15	43.20	74.00	30.80	Horizontal	PK PK
7305.343	37.37	15.07	52.44	74.00	21.56	Horizontal	PK
7315,625	26.13	15.10	41.23	54.00	12.77	Horizontal	AV

уре		802.11	g	Т	est channel		CH11
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1192.406	33.49	-5.91	27.58	74.00	46.42	Horizontal	PK
3195.781	31.46	0.82	32.28	74.00	41.72	Horizontal	PK
4920.093	32.32	7.31	39.63	74.00	34.37	Horizontal	PK
7389.062	38.37	15.34	53.71	74.00	20.29	Horizontal	PK
7389.062	27.36	15.34	42.70	54.00	11.30	Horizontal	AV
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1198.281	33.13	-5.85	27.28	74.00	46.72	Vertical	PK
3087.093	32.95	0.26	33.21	74.00	40.79	Vertical	PK
4921.562	30.39	7.32	37.71	74.00	36.29	Vertical	PK
7383,187	37.95	15.32	53.27	74.00	20.73	Vertical	PK
7383.187	26.96	15.32	42.28	54.00	11.72	Vertical	AV

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ype		802.11	n(HT20)	-	Test channel		CH00
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m	Margin [dB]	Polarity	Detector
1208.562	33.45	-5.81	27.64	74.00	46.36	Vertical	PK
3217.812	31.80	0.63	32.43	74.00	41.57	Vertical	PK
4821.687	37.76	7.08	44.84	74.00	29.16	Vertical	PK
7231.906	39.24	15.01	54.25	74.00	19.75	Vertical	PK
7240.718	27.14	15.01	42.15	54.00	11.85	Vertical	AV
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m	Margin [dB]	Polarity	Detector
1221.781	33.23	-5.77	27.46	74.00	46.54	Horizontal	PK
3132.625	31.61	0.49	32.10	74.00	41.90	Horizontal	PK
4817.281	39.08	7.07	46.15	74.00	27.85	Horizontal	PK
7230.437	35.97	15.01	50.98	74.00	23.02	Horizontal	PK
7236.312	26.23	15.01	41.24	54.00	12.76	Horizontal	AV

ype		802.11	n(HT20)	-	Test channel		CH07
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1188.000	33.33	-5.96	27.37	74.00	46.63	Horizontal	PK
3091.500	31.76	0.28	32.04	74.00	41.96	Horizontal	PK
4880.437	39.19	7.15	46.34	74.00	27.66	Horizontal	PK
7308.281	36.71	15.08	51,79	74.00	22.21	Horizontal	PK
7312.687	27.56	15.09	42.65	54.00	11.35	Horizontal	AV
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m	Margin [dB]	Polarity	Detector
1192.406	33.09	-5.91	27.18	74.00	46.82	Vertical	PK
3191.375	30.87	0.80	31.67	74.00	42.33	Vertical	PK
4874.562	35.45	7.15	42.60	74.00	31.40	Vertical	PK
7308.281	36.86	15.08	51.94	74.00	22.06	Vertical	PK
7308.281	27.73	15.08	42.81	54.00	11.19	Vertical	AV

- уре		802.11n(HT20)			Test channel	CH11	
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1188.000	33.61	-5.96	27.65	74.00	46.35	Vertical	PK
3160.531	31.22	0.63	31.85	74.00	42.15	Vertical	PK
4918.625	30.91	7,30	38.21	74.00	35.79	Vertical	PK
7381.718	26.27	15.31	41.58	54.00	12.42	Vertical	AV
7393.468	37.25	15.35	52.60	74.00	21.40	Vertical	PK
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1279.062	33.21	-5.62	27.59	74.00	46.41	Horizontal	PK
3170.812	31.44	0.69	32.13	74.00	41.87	Horizontal	PK
4923.031	33.16	7.33	40.49	74.00	33.51	Horizontal	PK
7384.656	35.71	15.32	51.03	74.00	22.97	Horizontal	PK
7389.062	25.84	15.34	41.18	54.00	12.82	Horizontal	AV

уре		802.11r	n(HT40)	Test	channel	CH03	
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1226.187	33.30	-5.76	27.54	74.00	46.46	Horizonta	l PK
3147.312	31.54	0.57	32.11	74.00	41,89	Horizonta	I PK
4826.093	39.62	7.08	46.70	74.00	27.30	Horizonta	I PK
7230.437	36.61	15.01	51.62	74.00	22.38	Horizonta	I PK
7242.187	27.52	15.02	42.54	54.00	11.46	Horizonta	I AV
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1183.593	33.90	-6.00	27.90	74.00	46.10	Vertical	PK
3169.343	31.44	0.68	32.12	74.00	41.88	Vertical	PK
4827.562	37.88	7.09	44.97	74.00	29.03	Vertical	PK
7230.437	38.16	15.01	53.17	74.00	20.83	Vertical	PK
7231.906	27.26	15.01	42.27	54.00	11.73	Vertical	AV

ype		802.11	n(HT40)	Tes	Test channel		
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1186.531	33,09	-5.97	27.12	74.00	46.88	Vertical	PK
3092.968	31.79	0.29	32.08	74.00	41.92	Vertical	PK
4855.468	35.38	7.12	42.50	74.00	31.50	Vertical	PK
7278.906	26.49	15.04	41.53	54.00	12.47	Vertical	AV
7289.187	39.77	15.04	54.81	74.00	19.19	Vertical	PK
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1182.125	33.57	-6.02	27.55	74.00	46.45	Horizontal	PK
3148.781	31.41	0.57	31.98	74.00	42.02	Horizontal	PK
4855.468	38.52	7.12	45.64	74.00	28.36	Horizontal	PK
7277.437	38.02	15.04	53.06	74.00	20.94	Horizontal	PK
7283.312	27.11	15.04	42.15	54.00	11.85	Horizontal	AV

уре		802.11n(HT40)			est channel	CH09	
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m]	Margin [dB]	Polarity	Detector
1189.468	33.31	-5.94	27.37	74.00	46,63	Horizontal	PK
3184.031	31.60	0.76	32.36	74.00	41.64	Horizontal	PK
4887.781	37.23	7.16	44.39	74.00	29.61	Horizontal	PK
7328.843	37.03	15.14	52.17	74.00	21.83	Horizontal	PK
7328.843	27.03	15.14	42.17	54.00	11.83	Horizontal	AV
Freq. [MHz]	Reading [dBµV/m]	Factor [dB]	Level [dBµV/m]	Limit [dBµV/m	Margin [dB]	Polarity	Detector
1211.500	33.16	-5.80	27.36	74.00	46.64	Vertical	PK
3198.718	31.01	0.83	31.84	74.00	42.16	Vertical	PK
4890.718	32.11	7.17	39.28	74.00	34.72	Vertical	PK
7324.437	40.28	15.13	55.41	74.00	18.59	Vertical	PK
7327,375	28.99	15.14	44.13	54.00	9.87	Vertical	AV

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6. TEST SETUP PHOTOS

Radiated Emission







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AC Conducted Emission



7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No.: CHTEW20020020

8. APPENDIX REPORT