TEST REPORT

Report No.: CHTEW21100071 Report Verification:

Project No...... SHT2109065201EW

FCC ID.....: 2AZYA-AS10W

Applicant's name.....: Senwa Global International, S.A. de C.V.

Cuajimalpa de Morelos, C.P. 05320 Ciudad de Mexico, Mexico

Test item description: Tablet

Trade Mark ACER

Model/Type reference...... SOSPIRO-AS10W

Listed Model(s) -

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

Date of receipt of test sample........... Sept.23, 2021

Date of testing...... Sept.23, 2021- Oct.18, 2021

Date of issue...... Oct.19, 2021

Result...... PASS

Compiled by

(Position+Printed name+Signature): File administrator Echo Wei

Supervised by

(Position+Printed name+Signature): Project Engineer Kiki Kong

Approved by

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

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

Address....... 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road,

Tianliao, Gongming, Shenzhen, China

Shenzhen Huatongwei International Inspection Co., Ltd. All rights reserved.

This publication may be reproduced in whole or in part for non-commercial purposes as long as the Shenzhen Huatongwei International Inspection Co., Ltd. is acknowledged as copyright owner and source of the material. Shenzhen Huatongwei International Inspection Co., Ltd. takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement and context.

The test report merely correspond to the test sample.

Report No.: CHTEW21100071 Page: 2 of 44 Issued: 2021-10-19

Contents

<u>1.</u>	TEST STANDARDS AND REPORT VERSION	3
1.1.	Test Standards	3
1.2.	Report version	3
<u>2.</u>	TEST DESCRIPTION	4
<u>3.</u>	SUMMARY	5
3.1.	Client Information	5
3.2.	Product Description	5
3.3.	Radio Specification Description	5
3.4.	Testing Laboratory Information	6
<u>4.</u>	TEST CONFIGURATION	7
4.1.	Test frequency list	7
4.2.	Descriptions of Test mode	7
4.3.	Test mode	7
4.4.	Support unit used in test configuration and system	8
4.5.	Testing environmental condition	8
4.6.	Measurement uncertainty	8
4.7.	Equipment Used during the Test	9
5	TEST CONDITIONS AND RESULTS	11
<u>5.</u>	1EST CONDITIONS AND RESULTS	11
5.1.	Antenna Requirement	11
5.2.	AC Conducted Emission	12
5.3.	Peak Output Power	15
5.4.	Power Spectral Density	16
5.5.	6dB bandwidth	17
5.6.	99% Occupied Bandwidth	18
5.7.	Duty Cycle	19
5.8.	Conducted Band edge and Spurious Emission	20
5.9.	Radiated Band edge Emission	22
5.10.	Radiated Spurious Emission	27
<u>6.</u>	TEST SETUP PHOTOS	35
_		
<u>7.</u>	EXTERANAL AND INTERNAL PHOTOS	37
•	ARRENDIV REPORT	
8.	APPENDIX REPORT	44

Report No.: CHTEW21100071 Page: 3 of 44 Issued: 2021-10-19

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	2021-10-19	Original

Report No.: CHTEW21100071 Page: 4 of 44 Issued: 2021-10-19

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.

Report No.: CHTEW21100071 Page: 5 of 44 Issued: 2021-10-19

3. **SUMMARY**

3.1. Client Information

Applicant:	Senwa Global International, S.A. de C.V.
Address:	Carretera Mexico-Toluca No. 5324 PB, Colonia El Yaqui Del. Cuajimalpa de Morelos, C.P. 05320 Ciudad de Mexico, Mexico
Manufacturer:	Q2 COMMUNICATION TECHNOLOGY LIMITED
Address:	Room 401, Building A, Baihui Creative Park, No. 5185, Yiyuan Road, Xin 'an Street, Bao 'an District, Shenzhen, Guangdong
Factory:	Q2 COMMUNICATION TECHNOLOGY LIMITED
Address:	Room 401, Building A, Baihui Creative Park, No. 5185, Yiyuan Road, Xin 'an Street, Bao 'an District, Shenzhen, Guangdong

3.2. Product Description

Name of EUT:	Tablet
Trade Mark:	ACER
Model No.:	SOSPIRO-AS10W
Listed Model(s):	-
Power supply:	DC3.7V
Battery Information:	3.7V 6000mAh 22.2Wh
Adapter Information:	Model: JK050200-S86USU Input: 100-240Va.c.,50/60Hz 0.5A Output: 5.0Vd.c.,2A 10W
Hardware version:	ACER_AS10W_Ver 01
Software version:	ACER_AS10W_Ver 01

3.3. Radio Specification Description

Support type*2:	802.11b, 802.11g, 802.11n(HT20), 802.11n(HT40)
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) 7 for 802.11n(HT40)
Channel separation:	5MHz
Antenna type:	PIFA
Antenna gain:	0.87dBi

Note:

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

Report No.: CHTEW21100071 Page: 6 of 44 Issued: 2021-10-19

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: cs@szhtw.com.cn http://www.szhtw.com.cn		
Qualifications	Type Accreditation Number		
Qualifications	FCC	762235	

Report No.: CHTEW21100071 Page: 7 of 44 Issued: 2021-10-19

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.

Report No.: CHTEW21100071 Page: 8 of 44 Issued: 2021-10-19

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.

Report No.: CHTEW21100071 Page: 9 of 44 Issued: 2021-10-19

4.7. Equipment Used during the Test

•	Conducted E	mission					
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	2021/9/14	2022/9/13
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2021/9/17	2022/9/16
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2021/9/13	2022/9/12
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2021/9/17	2022/9/16
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated emi	ssion-6th test sit	te				
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	2022/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2021/9/14	2022/9/13
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	2022/04/05
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/06	2022/04/05
•	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	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2021/02/26	2022/02/25
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated em	ission-7th test s	ite				
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	2022/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2021/9/13	2022/9/12
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/4/27	2023/4/27
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2020/11/13	2021/11/12
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2021/03/05	2022/03/04
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0119-05	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2021/02/26	2022/02/25
•	RF Connection Cable	HUBER+SUHNER	HTWE0121-01	6m 18GHz S Serisa	N/A	2021/02/26	2022/02/25
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

Report No.: CHTEW21100071 Page: 10 of 44 Issued: 2021-10-19

•	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	2021/9/13	2022/9/12
•	Spectrum Analyzer	Agilent	N9020A	MY50510187	2021/9/13	2022/9/12
•	Power Meter	Anritsu	ML249A	N/A	2021/9/13	2022/9/12
0	Radio communication tester	R&S	CMW500	137688-Lv	2021/9/13	2022/9/12

Report No.: CHTEW21100071 Page: 11 of 44 Issued: 2021-10-19

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.

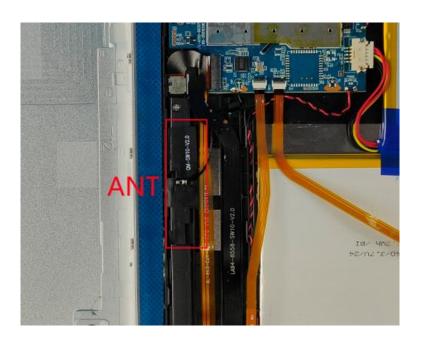
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(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

oxtimes Passed	☐ Not Applicable
----------------	------------------

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



Report No.: CHTEW21100071 Page: 12 of 44 Issued: 2021-10-19

5.2. AC Conducted Emission

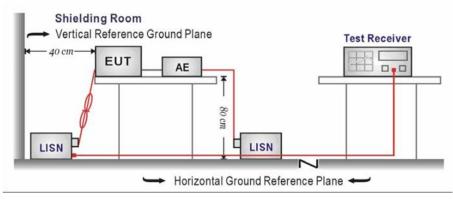
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fragues ou range (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

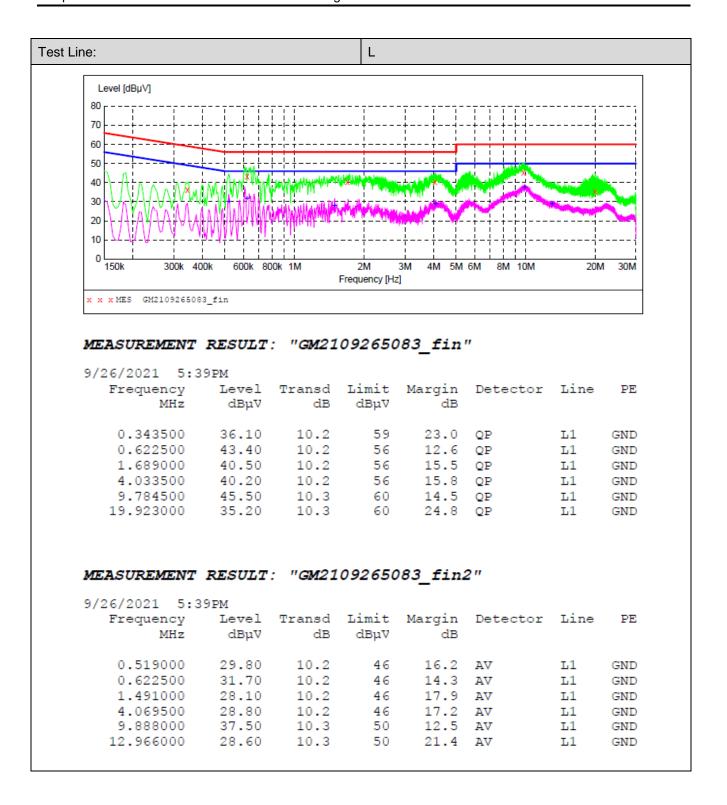
- 1. The EUT was setup according to ANSI C63.10 requirements.
- 2. The EUT was placed on a platform of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from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

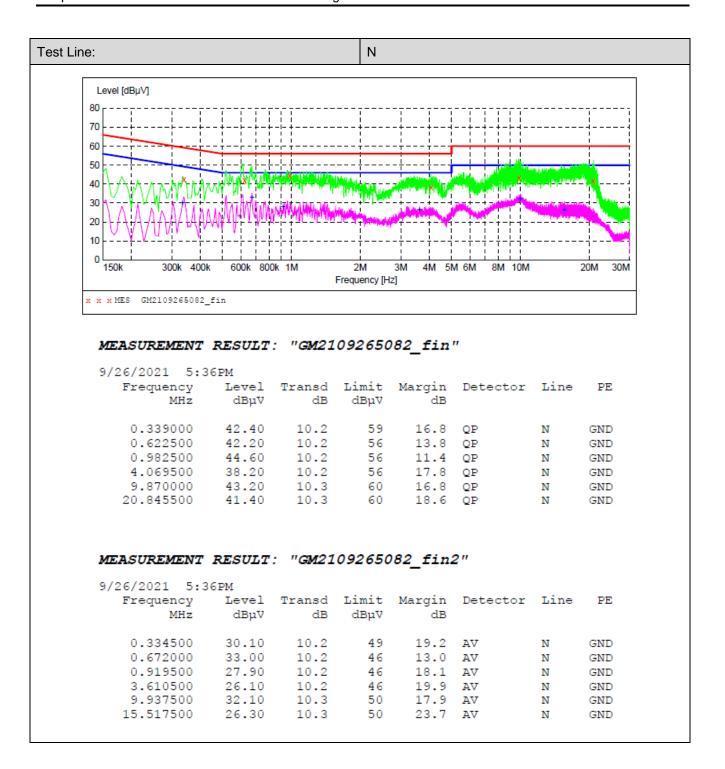
Please refer to the clause 4.2

TEST RESULT

 Report No.: CHTEW21100071 Page: 13 of 44 Issued: 2021-10-19



Report No.: CHTEW21100071 Page: 14 of 44 Issued: 2021-10-19



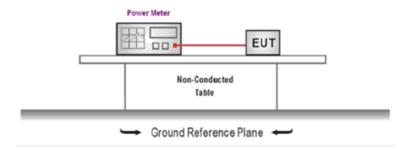
Report No.: CHTEW21100071 Page: 15 of 44 Issued: 2021-10-19

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

Report No.: CHTEW21100071 Page: 16 of 44 Issued: 2021-10-19

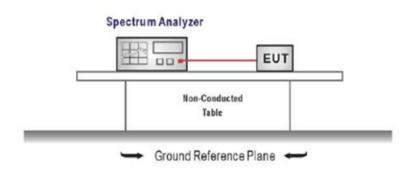
5.4. Power Spectral Density

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

Report No.: CHTEW21100071 Page: 17 of 44 Issued: 2021-10-19

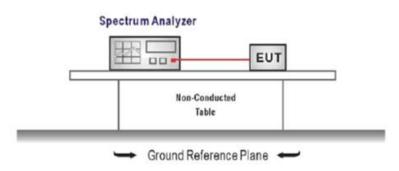
5.5. 6dB bandwidth

LIMIT

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

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

TEST CONFIGURATION



TEST PROCEDURE

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

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 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 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

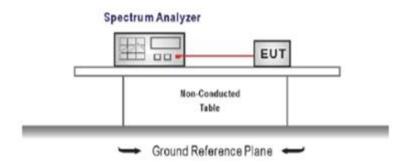
Report No.: CHTEW21100071 Page: 18 of 44 Issued: 2021-10-19

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.
- 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

TEST Data

Please refer to appendix D on the appendix report

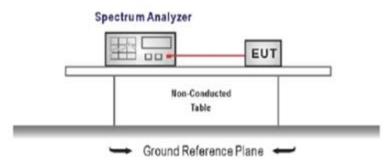
Report No.: CHTEW21100071 Page: 19 of 44 Issued: 2021-10-19

5.7. Duty Cycle

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

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

TEST MODE:

Please refer to the clause 4.2

TEST Data

Please refer to appendix E on the appendix report

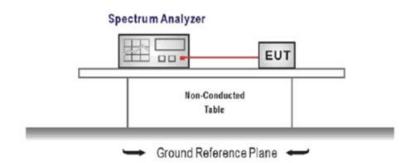
Report No.: CHTEW21100071 Page: 20 of 44 Issued: 2021-10-19

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 \geq 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

Report No.: CHTEW21100071 Page: 21 of 44 Issued: 2021-10-19

TEST RESULT

 $oxed{oxed}$ Passed $oxed{oxed}$ Not Applicable

TEST Data

Please refer to appendix F on the appendix report

Report No.: CHTEW21100071 Page: 22 of 44 Issued: 2021-10-19

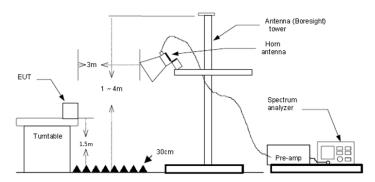
5.9. Radiated Band edge Emission

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) Over Limit = Level- Limit
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m).

Report No.: CHTEW21100071 Page: 23 of 44 Issued: 2021-10-19

Type		802.1	1b	Test cl	hannel	CH	H01	P	olarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit Ove dBuV/m lim	
	1	2310.00	36.72	27.96	5.43	37.56	20.00	52.55	74.00 -21.4	5 Peak
	2	2390.01	36.00	27.72	5.53	37.45	20.00	51.80	74.00 -22.2	0 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	2310.00	25.43	27.96	5.43	37.56	20.00	41.26	54.00 -12.74	Average
	2	2390.01	25.42	27.72	5.53	37.45	20.00	41.22	54.00 -12.78	Average
Туре		802.1	1b	Test c	hannel	CH	H01	Р	olarity	Vertical
	Mark	Frequency	Reading		Cable			Level	Limit Over	
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m limi	it
	1	2310.00	37.39	27.96	5.43	37.56	20.00	53.22	74.00 -20.78	B Peak
	2	2390.01	37.40	27.72	5.53	37.45	20.00	53.20	74.00 -20.80	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	2310.00	25.26	27.96		37.56	20.00		54.00 -12.91	Average
	2	2390.01	25.36	27.72		37.45	20.00		54.00 -12.84	Average

Туре		802.1	1b	Test c	hannel	CH	111	F	Polarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit Over	
	1	2483.49	37.07	27.43	5.64	37.26	20.00	52.88	74.00 -21.12	2 Peak
	2	2500.00	36.66	27.40	5.66	37.26	20.00	52.46	74.00 -21.54	4 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	2483.49	25.20	27.43	5.64	37.26	20.00	41.01	54.00 -12.99	Average
	2	2500.00	24.87	27.40	5.66	37.26	20.00	40.67	54.00 -13.33	Average
Гуре		802.1	1b	Test c	hannel	CH	H11	F	Polarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over dBuV/m limi	
	1	2483.49	37.38	27.43	5.64	37.26	20.00	53.19	74.00 -20.81	l Peak
	2	2500.00	37.08	27.40	5.66	37.26	20.00	52.88	74.00 -21.12	2 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	2483.49	25.11	27.43	5.64	37.26	20.00	40.92	54.00 -13.08	Average
		2500.00	24.88	27.40	5.66	37.26	20.00	40.68	54.00 -13.32	Average

Report No.: CHTEW21100071 Page: 24 of 44 Issued: 2021-10-19

Туре		802.11	Ig	Test cl	hannel	CH	101	Р	olarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream;	Aux dB	Level dBuV/m	Limit Over dBuV/m limi	
	1	2310.00	37.38	27.96	5.43	37.56	20.00	53.21	74.00 -20.79	200
	2	2390.01	37.66	27.72	5.53	37.45	20.00	53.46	74.00 -20.54	1 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	2310.00	25.39	27.96	5.43	37.56	20.00	41.22	54.00 -12.78	Average
	2	2390.01	25.56	27.72	5.53	37.45	20.00	41.36	54.00 -12.64	Average
Гуре		802.11	lg	Test cl	hannel	CH	101	Р	olarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	Aux dB	Level dBuV/m	Limit Over dBuV/m lim:	
	1	2310.00	36.54	27.96	5.43	37.56	20.00	52.37	74.00 -21.63	3 Peak
	2	2390.01	37.04	27.72	5.53	37.45	20.00	52.84	74.00 -21.10	6 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	2310.00	25.16	27.96	5.43	37.56	20.00	40.99	54.00 -13.01	Average
	2	2390.01	25.50	27.72	5.53	37.45	20.00	41.30	54.00 -12.70	Average

Type		802.1	1g	Test cl	hannel	CH	111	Р	olarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit Ove dBuV/m lim	
	1	2483.49	38.54	27.43	5.64	37.26	20.00	54.35	74.00 -19.6	5 Peak
	2	2500.00	36.57	27.40	5.66	37.26	20.00	52.37	74.00 -21.6	3 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB		Limit Over dBuV/m limit	Remark
	1	2483.49	26.36	27.43	5.64	37.26	20.00	42.17	54.00 -11.83	Average
	2	2500.00	25.05	27.40	5.66	37.26	20.00	40.85	54.00 -13.15	Average
Туре		802.1	1g	Test cl	hannel	CH	111	Р	olarity	Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream; dB	Aux dB	Level dBuV/m	Limit Over	
	1	2483.49	36.64	27.43	5.64	37.26	20.00	52.45	74.00 -21.55	5 Peak
	2	2500.00	36.03	27.40	5.66	37.26	20.00	51.83	74.00 -22.17	7 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	2483.49	25.27	27.43	5.64	37.26	20.00	41.08	54.00 -12.92	Average
	2	2500.00	24.89	27.40	5.66	37.26	20.00	40.00	54.00 -13.31	Average

Report No.: CHTEW21100071 Page: 25 of 44 Issued: 2021-10-19

Type		802.11	In(HT20)	Test cl	hannel	СН	101	Р	olarity	Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream; dB	Aux dB	Level dBuV/m	Limit Ove dBuV/m lir	er Remark nit
	1	2310.00	36.91	27.96	5.43	37.56	20.00	52.74	74.00 -21.2	26 Peak
	2	2390.01	37.99	27.72	5.53	37.45	20.00	53.79	74.00 -20.2	21 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	2310.00	25.57	27.96	5.43	37.56	20.00	41.40	54.00 -12.60	Average
	2	2390.01	26.32	27.72	5.53	37.45	20.00	42.12	54.00 -11.88	Average
Туре		802.11	In(HT20)	Test cl	nannel	СН	101	Р	olarity	Vertical
Туре	Mark		In(HT20) Reading dBuV/m	Test ch Antenna dB	nannel Cable dB			Level dBuV/m	olarity Limit Over dBuV/m limi	Remark
Туре	Mark 1	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit Over	r Remark it
Туре		Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit Over	Remark it B Peak
Туре	1	Frequency MHz 2310.00 2390.01	Reading dBuV/m 36.44	Antenna dB 27.96	Cable dB 5.43	Preamp dB 37.56	Aux dB 20.00	Level dBuV/m 52.27	Limit Over dBuV/m limi 74.00 -21.7	Remark it B Peak Feak Remark
Туре	1 2	Frequency MHz 2310.00 2390.01 Frequency	Reading dBuV/m 36.44 37.05	Antenna dB 27.96 27.72 Antenna	Cable dB 5.43 5.53 Cable dB	Preamp dB 37.56 37.45 Preamp dB	Aux dB 20.00 20.00	Level dBuV/m 52.27 52.85 Level dBuV/m	Limit Over dBuV/m limi 74.00 -21.73 74.00 -21.15 Limit Over	Remark it B Peak Feak Remark

Туре		802.11	In(HT20)	Test cl	nannel	CH	111	P	olarity		Horizontal
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	0ver	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483.49	38.89	27.43	5.64	37.26	20.00	54.70	74.00 -1	19.30	Peak
	2	2500.00	37.33	27.40	5.66	37.26	20.00	53.13	74.00 -2	20.87	Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB .	dB	dBuV/m	dBuV/m	limit	
	1	2483.49	27.34	27.43	5.64	37.26	20.00	43.19	54.00 -1	0.85	Average
	2	2500.00	25.18	27.40	5.66	37.26	20.00	40.98	3 54.00 -1	3.02	Average
Туре		802.11	In(HT20)	Test cl	nannel	CH	111	Р	olarity		Vertical
	Mark	Frequency	Reading	Antenna	Cable	Pream	p Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	lim	it
	1	2483.49	37.47	27.43	5.64	37.26	20.00	53.28	74.00	-20.72	2 Peak
	2	2500.00	37.29	27.40	5.66	37.26	20.00	53.09	74.00	-20.93	l Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit 0)ver	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m]	limit	
	1	2483.49	25.94	27.43	5.64	37.26	20.00	41.75	54.00 -12	2.25	Average
	2	2500.00	25.40	27.40	5.66	37.26	20.00	41.20	54.00 -12	2.80	Average

Report No.: CHTEW21100071 Page: 26 of 44 Issued: 2021-10-19

Туре		802.1	1n(HT40)	Test ch	nannel	СН	103	Po	olarity		Horizontal
	Mark		_	Antenna	Cable			Level	Limit	Over	
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limi	70
	1	2310.00	37.06	27.96	5.43	37.56	20.00	52.89	74.00	-21.11	Peak
	2	2389.99	39.27	27.72	5.53	37.45	20.00	55.07	74.00	-18.93	Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2310.00	25.71	27.96	5.43	37.56	20.00	41.54	54.00 -	12.46	Average
	2	2389.99	27.85	27.72	5.53	37.45	20.00	43.65	54.00 -	10.35	Average
Туре		802.11	1n(HT40)	Test ch	nannel	СН	103	Po	olarity		Vertical
	Mark	Frequency	Reading	Antenna	Cable	Pream	Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limi	t
	1	2310.00	37.06	27.96	5.43	37.56	20.00	52.89	74.00	-21.11	Peak
	2	2389.99	37.68	27.72	5.53	37.45	20.00	53.48	74.00	-20.52	Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2310.00	25.53	27.96	5.43	37.56	20.00	41.36	54.00	-12.64	Average
	2	2389.99	27.19	27.72	5.53	37.45	20.00	40.00	54.00	-11.01	Average

Туре		802.1	1n(HT40)	Test c	hannel	CH	109	P	olarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.50	40.86	27.43	5.64	37.26	20.00	56.67	74.00	-17.33	Peak
	2	2500.00	37.79	27.40	5.66	37.26	20.00	53.59	74.00	-20.41	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	2483.50	28.40	27.43	5.64	37.26	20.00	44.21	54.00	-9.79	Average
	2	2500.00	25.38	27.40	5.66	37.26	20.00	41.18	54.00	-12.82	Average
Туре		802.1	1n(HT40)	Test c	hannel	CH	109	P	olarity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.50	37.49	27.43	5.64	37.26	20.00	53.30	74.00	-20.70	Peak
	2	2500.00	36.41	27.40	5.66	37.26	20.00	52.21	74.00	-21.79	Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483.50	26.47	27.43	5.64	37.26	20.00	42.28	54.00	-11.72	Average
	2	2500.00	25.40	27.40	5.66	37.26	20.00	41.20	54.00	-12.80	Average

Report No.: CHTEW21100071 Page: 27 of 44 Issued: 2021-10-19

5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

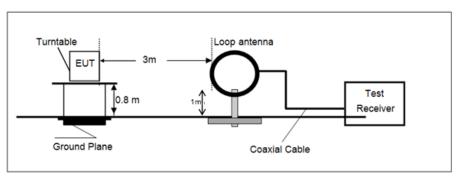
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

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.

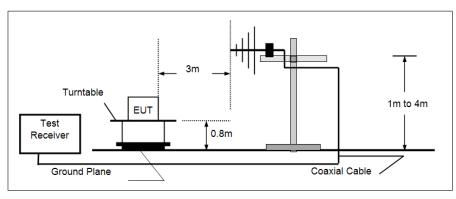
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

TEST CONFIGURATION

→ 9 kHz ~ 30 MHz

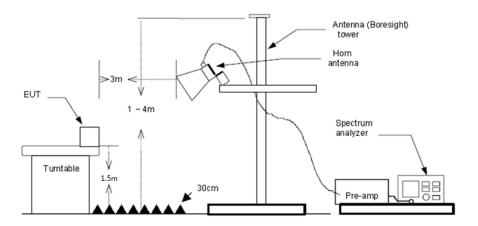


> 30 MHz ~ 1 GHz



Above 1 GHz

Report No.: CHTEW21100071 Page: 28 of 44 Issued: 2021-10-19



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.
- 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) Over Limit = Level- Limit
- 3) Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

Report No.: CHTEW21100071 Page: 29 of 44 Issued: 2021-10-19

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.

Report No.: CHTEW21100071 Page: 30 of 44 Issued: 2021-10-19

Polarization: Horizontal Level [dBµV/m] 80 70 60 40 30 20 10 30M 40M 50M 60M 70M 100M 200M 300M 400M 500M 600M 800M 1G Frequency [Hz] x x x MES GM2109276121_red MEASUREMENT RESULT: "GM2109276121 red" 9/27/2021 11:00PM Frequency Level Transd Limit Margin Det. Height Azimuth Polarization dB MHz dBuV/m dB dBuV/m cm deg 134.760000 29.20 -13.9 43.5 14.3 QP 300.0 86.00 HORIZONTAL 13.9 QP 12.8 QP 300.0 162.00 HORIZONTAL 171.620000 29.60 -12.8 43.5 86.00 HORIZONTAL 175.500000 30.70 -12.6 43.5 300.0 29.40 14.1 QP 13.7 QP 100.0 127.00 HORIZONTAL 194.900000 -10.3 43.5 204.600000 29.80 -10.4 43.5 100.0 127.00 HORIZONTAL 897.180000 10.1 QP 300.0 201.00 HORIZONTAL 35.90 7.3 46.0 Polarization: Vertical Level [dBµV/m] 70 60 50 40 30 20 10 30M 40M 50M 60M 70M 100M 200M 300M 400M 500M 600M 800M Frequency [Hz] x x x MES GM2109276120_red MEASUREMENT RESULT: "GM2109276120 red" 9/27/2021 10:57PM Level Transd Limit Margin Det. Height Azimuth Polarization Frequency MHz dBµV/m dB dBµV/m dB cm deg 30.000000 37.00 -12.4 100.0 258.00 VERTICAL 40.0 3.0 OP 9.7 QP 10.5 QP 30.30 61.040000 -10.1 40.0 100.0 6.00 VERTICAL 274.00 72.680000 29.50 -14.0 40.0 100.0 VERTICAL 86.260000 30.60 -14.0 40.0 9.4 QP 100.0 142.00 VERTICAL 11.2 QP 12.5 QP 0.00 132.820000 32.30 -13.8 43.5 100.0 VERTICAL

33.50

7.7

46.0

934.040000

VERTICAL

69.00

100.0

Report No.: CHTEW21100071 Page: 31 of 44 Issued: 2021-10-19

TEST DATA FOR 1 GHz ~ 25 GHz

Туре		802.11b		Test channel	CH	l01		Polarity	Horizontal
	Mark	Frequency	Readin		ble	Preamp	Leve		
		MHz	dBuV/		В	dB	dBuV/		
	1	2281.32	50.69			37.50	46.63	74.00 -27.	
	2	2604.19	44.43			37.07	40.72	74.00 -33.	
	3 4	4821.76	46.11			35.24	50.77	74.00 -23.	
	4	7227.39	36.57	36.45 10.	01 :	34.03	49.00	74.00 -25.0	00 Peak
Туре		802.11b		Test channel	CH	101		Polarity	Vertical
	Mark	Frequency	Readin	g Antenna Ca	ble	Preamp	Leve	l Limit Ove	r Remark
		MHz	dBuV/	m dB d	B	dB	dBuV/	m dBuV/m lim	it
	1	2281.32	52.67	28.04 5.	40	37.50	48.61	74.00 -25.	39 Peak
	2	2597.56	43.48	27.50 5.	82	37.09	39.71	74.00 -34.	29 Peak
	3	4821.76	45.16	31.40 8.	50	35.24	49.82	74.00 -24.	18 Peak
	4	7245.81	36.82	36.41 10.	01	34.06	49.18	74.00 -24.	82 Peak
Туре		802.11b		Test channel	CH	106		Polarity	Horizontal
	Mark	Frequency	Readin	g Antenna Ca	able	Preamp	Leve	l Limit Ove	r Remark
		MHz	dBuV/		iB.	dB	dBuV/		
	1	2281.32	50.69			37.50	46.63	74.00 -27.	
	2	2604.19	44.43			37.07	40.72	74.00 -33.	
	3	4858.72	44.74			35.13	49.61	74.00 -24.	
	4	7319.96	36.56	36.44 10.		34.10	48.96	74.00 -25.	
Туре		802.11b		Test channel	CH	106		Polarity	Vertical
71	7, 1,121	1	20.7			111			11111112
	Mark	Frequency	Readin	0	ble	Preamp	Leve		
		MHz	dBuV/		В	dB	dBuV/		
	1	2281.32	52.67			37.50	48.61	74.00 -25.	
	2	2597.56	43.48			37.09	39.71	74.00 -34.	
	3	4883.52	43.71			35.18	48.60	74.00 -25.	
	4	7319.96	35.81	36.44 10.	<i>в</i> ъ .	34.10	48.21	74.00 -25.	79 Peak
Туре		802.11b		Test channel	CH	l11		Polarity	Horizontal
	Mark	Frequency	Readin	g Antenna Ca	ble	Preamp	Leve!	L Limit Over	Remark
		MHz	dBuV/		В	dB	dBuV/r	n dBuV/m limi	it
	1	2281.32	50.69	28.04 5.	40 3	37.50	46.63	74.00 -27.3	7 Peak
	2	2604.19	44.43	27.52 5.	84	37.07	40.72	74.00 -33.2	28 Peak
	3	4920.96	44.55	31.44 8.	73	35.21	49.51	74.00 -24.4	19 Peak
	4	7376.08	35.85	36.55 10.	20 3	34.04	48.56	74.00 -25.4	14 Peak
Туре		802.11b		Test channel	CH	l11		Polarity	Vertical
	Marala	Faccione	Dec 44	- Anto 5-	h1c	Danasass	1	1 14-44 0	n Damad:
	Mark	Frequency	Readin		ble	Preamp	Leve		
		MHz	dBuV/		В	dB	dBuV/		
	1	2281.32	52.67			37.50	48.61	74.00 -25.	
1	2	2597.56	43.48			37.09	39.71	74.00 -34.	
	-								
	3 4	4933.50 7394.88	45.03 36.27	31.47 8. 36.59 10.		35.20 34.02	50.05 49.09	74.00 -23. 74.00 -24.	

Report No.: CHTEW21100071 Page: 32 of 44 Issued: 2021-10-19

Mark
2 2604.19 41.91 27.52 5.84 37.07 38.20 74.00 -35.80 Pe
Type Reading
Type 802.11g Test channel CH01 Polarity Vertion Mark Frequency A4.66 A4.61 A4.66 A4.61 A4.66 A4.61 A4.
Type 802.11g Test channel CH01 Polarity Vertical
Mark Frequency Reading Antenna Cable Preamp Level Limit Over Reading Antenna Cable Preamp Level Limit Over Reading Antenna Cable Preamp Level Limit Over Reading Antenna Cable Preamp Prea
MHz
1 2281.32 48.02 28.04 5.40 37.50 43.96 74.00 -30.04 Pe 2 2590.96 40.99 27.48 5.81 37.10 37.18 74.00 -36.82 Pe 3 4821.76 44.46 31.40 8.50 35.24 49.12 74.00 -24.88 Pe 4 7245.81 35.72 36.41 10.01 34.06 48.08 74.00 -25.92 Pe Type B02.11g Test channel CH06 Polarity Horiz Mark Frequency Reading Antenna Cable Preamp Level Limit Over Reading Antenna Cable Preamp Saccordance Product Preamp Preamp Reading Antenna Cable Preamp Level Limit Over Reading Antenna Cable Preamp Level Lim
2 2590.96 40.99 27.48 5.81 37.10 37.18 74.00 -36.82 Pe 3 4821.76 44.46 31.40 8.50 35.24 49.12 74.00 -24.88 Pe 4 7245.81 35.72 36.41 10.01 34.06 48.08 74.00 -25.92 Pe Type BO2.11g Test channel CH06 Polarity Horiza Mark Frequency Reading Antenna Cable Preamp Level Limit Over Re 1 2281.32 48.56 28.04 5.40 37.50 44.50 74.00 -29.50 Pe 2 2604.19 41.91 27.52 5.84 37.07 38.20 74.00 -35.80 Pe 3 4871.10 44.21 31.40 8.63 35.16 49.08 74.00 -24.92 Pe 4 7338.62 <
3
Type 802.11g Test channel CH06 Polarity Horiz Mark
Mark
MHz
1 2281.32 48.56 28.04 5.40 37.50 44.50 74.00 -29.50 Pe 2 2604.19 41.91 27.52 5.84 37.07 38.20 74.00 -35.80 Pe 3 4871.10 44.21 31.40 8.63 35.16 49.08 74.00 -24.92 Pe 4 7338.62 35.42 36.48 10.11 34.08 47.93 74.00 -26.07 Pe Type 802.11g Test channel CH06 Polarity Verti Mark Frequency Reading Antenna Cable Preamp Level Limit Over Re MHz dBuV/m dB dB dB dBuV/m dBuV/m dBuV/m 1imit 1 2281.32 48.02 28.04 5.40 37.50 43.96 74.00 -30.04 Pe 2 2590.96 40.99 27.48 5.81 37.10 37.18 74.00 -36.82 Pe 3 4883.52 44.61 31.40 8.67 35.18 49.50 74.00 -24.50 Pe
2 2604.19 41.91 27.52 5.84 37.07 38.20 74.00 -35.80 Period 3 4871.10 44.21 31.40 8.63 35.16 49.08 74.00 -24.92 Period 4 7338.62 35.42 36.48 10.11 34.08 47.93 74.00 -26.07 Period Type Bo2.11g Test channel CH06 Polarity Vertion Mark Frequency Reading Antenna Cable Preamp Level Limit Over Reading Antenna GBuV/m dBuV/m dBuV/m dBuV/m dBuV/m limit 1 2281.32 48.02 28.04 5.40 37.50 43.96 74.00 -30.04 Period 2 2590.96 40.99 27.48 5.81 37.10 37.18 74.00 -36.82 Period 3 4883.52 44.61 31.40 8.67 35.18 49.50 74.00 -24.50 Period
3 4871.10 44.21 31.40 8.63 35.16 49.08 74.00 -24.92 Per
Type 802.11g Test channel CH06 Polarity Vertical
Mark Frequency Reading Antenna Cable Preamp Level Limit Over Re MHz dBuV/m dB dB dB dBuV/m dBuV/m limit 1 2281.32 48.02 28.04 5.40 37.50 43.96 74.00 -30.04 Pe 2 2590.96 40.99 27.48 5.81 37.10 37.18 74.00 -36.82 Pe 3 4883.52 44.61 31.40 8.67 35.18 49.50 74.00 -24.50 Pe
Mark Frequency MHz Reading Antenna dBuV/m Cable dB dB dB dBuV/m Level Limit Over Reading dBuV/m Over Reading dBuV/m Antenna dBuV/
MHz dBuV/m dB dB dB dBuV/m dBuV/m limit 1 2281.32 48.02 28.04 5.40 37.50 43.96 74.00 -30.04 Pe 2 2590.96 40.99 27.48 5.81 37.10 37.18 74.00 -36.82 Pe 3 4883.52 44.61 31.40 8.67 35.18 49.50 74.00 -24.50 Pe
1 2281.32 48.02 28.04 5.40 37.50 43.96 74.00 -30.04 Pe 2 2590.96 40.99 27.48 5.81 37.10 37.18 74.00 -36.82 Pe 3 4883.52 44.61 31.40 8.67 35.18 49.50 74.00 -24.50 Pe
2 2590.96 40.99 27.48 5.81 37.10 37.18 74.00 -36.82 Pe 3 4883.52 44.61 31.40 8.67 35.18 49.50 74.00 -24.50 Pe
3 4883.52 44.61 31.40 8.67 35.18 49.50 74.00 -24.50 Pe
4 7319.96 35.68 36.44 10.06 34.10 48.08 74.00 -25.92 Pe
s control total could be the court of the co
Type 802.11g Test channel CH11 Polarity Horiz
Mark Frequency Reading Antenna Cable Preamp Level Limit Over Re
MHz dBuV/m dB dB dB dBuV/m dBuV/m limit
1 2281.32 48.56 28.04 5.40 37.50 44.50 74.00 -29.50 Pe
2 2604.19 41.91 27.52 5.84 37.07 38.20 74.00 -35.80 Pe
3 4920.96 44.66 31.44 8.73 35.21 49.62 74.00 -24.38 Pe
4 7394.88 36.33 36.59 10.25 34.02 49.15 74.00 -24.85 Pe
Type 802.11g Test channel CH11 Polarity Verti
, ,
Mark Frequency Reading Antenna Cable Preamp Level Limit Over Re
Mark Frequency Reading Antenna Cable Preamp Level Limit Over Re
Mark Frequency Reading Antenna Cable Preamp Level Limit Over Re MHz dBuV/m dB dB dB dBuV/m dBuV/m limit
Mark Frequency Reading Antenna Cable Preamp Level Limit Over Reading MHz dBuV/m dB dB dBuV/m dBuV/m limit 1 2281.32 48.02 28.04 5.40 37.50 43.96 74.00 -30.04 Pe

Report No.: CHTEW21100071 Page: 33 of 44 Issued: 2021-10-19

Туре		802.11n(H	IT20)	Test channel	I C	:H01		Polarity		Horizontal	
	Mark	Frequency	Readir dBuV/		Cable dB	Preamp dB	Leve dBuV/		Ove	er Remark	
	1	2281.32	48.46	28.04	5.40	37.50	44.40	74.00	-29	.60 Peak	
	2	2590.96	41.88	27.48	5.81	37.10	38.07	74.00	-35	.93 Peak	
	3	4809.50	45.00	31.40	8.47	35.28	49.59	74.00	-24	.41 Peak	
	4	7245.81	35.96	36.41	10.01	34.06	48.32	74.00	-25	.68 Peak	
Туре		802.11n(H	IT20)	Test channel	I C	H01		Polarity		Vertical	
	Mark	Frequency MHz	Readir dBuV/		Cable dB	Preamp dB	Leve dBuV/		Ove lim		
	1	1585.25	40.76	25.43	4.45	37.08	33.56	74.00	-40.		
	2	2281.32	48.44	28.04	5.40	37.50	44.38	74.00	-29.		
	3	4809.50	44.23	31.40	8.47	35.28	48.82	74.00	-25.		
	4	7227.39	35.29	36.45	10.01	34.03	47.72	74.00	-26.		
Туре		802.11n(H	IT20)	Test channel	ı c	H06		Polarity		Horizontal	
- ,	mali	•	,	are a second second			400000				
	Mark	Frequency	Reading dBuV		Cable dB	Preamp dB	dBuV/		Ove		
	1	2281.32	48.46	28.04	5.40	37.50	44.40	74.00	-29.		
	2	2590.96	41.88	27.48	5.81	37.10	38.07	74.00	-35.		
	3	4871.10	44.37	31.40	8.63	35.16	49.24	74.00	-24.		
	4	7319.96	36.26	36.44	10.06	34.10	48.66	74.00		34 Peak	
Туре		802.11n(H	IT20)	Test channel		H06		Polarity		Vertical	
. 71											
		,	,								
	Mark	Frequency	Readin	g Antenna	Cable	Preamp	Leve	l Limit	0ve	er Remark	
		MHz	dBuV/	g Antenna m dB	Cable dB	Preamp dB	dBuV/	l Limit /m dBuV/m	lin	er Remark mit	
	1	MHz 1585.25	dBuV/ 40.76	g Antenna m dB 25.43	Cable dB 4.45	Preamp dB 37.08	dBuV/ 33.56	l Limit /m dBuV/m 74.00	lin -40.	er Remark mit .44 Peak	
	1 2	MHz 1585.25 2281.32	dBuV/ 40.76 48.44	g Antenna m dB 25.43 28.04	Cable dB 4.45 5.40	Preamp dB 37.08 37.50	dBuV/ 33.56 44.38	l Limit /m dBuV/m 74.00 74.00	lin -40. -29.	er Remark mit .44 Peak .62 Peak	
	1	MHz 1585.25 2281.32 4871.10	dBuV/ 40.76 48.44 44.30	g Antenna m dB 25.43 28.04 31.40	Cable dB 4.45 5.40 8.63	Preamp dB 37.08 37.50 35.16	dBuV/ 33.56 44.38 49.17	l Limit m dBuV/m 74.00 74.00 74.00	lin -40. -29.	er Remark mit .44 Peak .62 Peak .83 Peak	
	1 2 3	MHz 1585.25 2281.32 4871.10 7338.62	dBuV/ 40.76 48.44 44.30 35.58	g Antenna m dB 25.43 28.04 31.40 36.48	Cable dB 4.45 5.40 8.63 10.11	Preamp dB 37.08 37.50 35.16 34.08	dBuV/ 33.56 44.38	l Limit dBuV/m 74.00 74.00 74.00 74.00	lin -40. -29.	er Remark nit .44 Peak .62 Peak .83 Peak .91 Peak	
Туре	1 2 3	MHz 1585.25 2281.32 4871.10	dBuV/ 40.76 48.44 44.30 35.58	g Antenna m dB 25.43 28.04 31.40	Cable dB 4.45 5.40 8.63 10.11	Preamp dB 37.08 37.50 35.16	dBuV/ 33.56 44.38 49.17	l Limit m dBuV/m 74.00 74.00 74.00	lin -40. -29.	er Remark mit .44 Peak .62 Peak .83 Peak	
Туре	1 2 3	MHz 1585.25 2281.32 4871.10 7338.62 802.11n(F	dBuV/ 40.76 48.44 44.30 35.58 HT20)	g Antenna m dB 25.43 28.04 31.40 36.48 Test channel	Cable dB 4.45 5.40 8.63 10.11 C	Preamp dB 37.08 37.50 35.16 34.08 H11	dBuV/ 33.56 44.38 49.17 48.09	l Limit 'm dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit	lin -40. -29. -24. -25.	er Remark nit .44 Peak .62 Peak .83 Peak .91 Peak Horizontal	
Туре	1 2 3 4 Mark	MHz 1585.25 2281.32 4871.10 7338.62 802.11n(F	dBuV/ 40.76 48.44 44.30 35.58 HT20) Readir dBuV/	g Antenna m dB 25.43 28.04 31.40 36.48 Test channel	Cable dB 4.45 5.40 8.63 10.11 C	Preamp dB 37.08 37.50 35.16 34.08 H11 Preamp dB	dBuV/ 33.56 44.38 49.17 48.09 Leve	l Limit 'm dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit n dBuV/m	lin -40 -29 -24 -25 Over limi	er Remark nit .44 Peak .62 Peak .83 Peak .91 Peak Horizontal	
Туре	1 2 3 4 Mark	MHz 1585.25 2281.32 4871.10 7338.62 802.11n(F	dBuV/ 40.76 48.44 44.30 35.58 IT20) Readir dBuV/ 48.46	g Antenna m dB 25.43 28.04 31.40 36.48 Test channel ng Antenna /m dB 28.04	Cable dB 4.45 5.40 8.63 10.11 Cable dB 5.40	Preamp dB 37.08 37.50 35.16 34.08 H11 Preamp dB 37.50	dBuV/ 33.56 44.38 49.17 48.09 Level dBuV/ 44.40	l Limit 'm dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00	lin -40. -29. -24. -25. Over limi -29.6	er Remark mit .44 Peak .62 Peak .83 Peak .91 Peak Horizontal r Remark it 50 Peak	
Туре	1 2 3 4 Mark	MHz 1585.25 2281.32 4871.10 7338.62 802.11n(F Frequency MHz 2281.32 2590.96	dBuV/ 40.76 48.44 44.30 35.58 IT20) Readir dBuV/ 48.46 41.88	g Antenna m dB 25.43 28.04 31.40 36.48 Test channel ng Antenna 'm dB 28.04 27.48	Cable dB 4.45 5.40 8.63 10.11 Cable dB 5.40 5.81	Preamp dB 37.08 37.50 35.16 34.08 H11 Preamp dB 37.50 37.10	dBuV/ 33.56 44.38 49.17 48.09 Level dBuV/ 44.40 38.07	l Limit 'm dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00	lin -40. -29. -24. -25. Over limi -29.6 -35.9	er Remark mit .44 Peak .62 Peak .83 Peak .91 Peak Horizontal Remark it .60 Peak .93 Peak	
Туре	1 2 3 4 Mark 1 2 3	MHz 1585.25 2281.32 4871.10 7338.62 802.11n(H Frequency MHz 2281.32 2590.96 4933.50	dBuV/ 40.76 48.44 44.30 35.58 HT20) Readir dBuV/ 48.46 41.88 44.16	g Antenna m dB 25.43 28.04 31.40 36.48 Test channel ng Antenna m dB 28.04 27.48 31.47	Cable dB 4.45 5.40 8.63 10.11 Cable dB 5.40 5.81 8.75	Preamp dB 37.08 37.50 35.16 34.08 H11 Preamp dB 37.50 37.10 35.20	dBuV/ 33.56 44.38 49.17 48.09 Leve dBuV/ 44.40 38.07 49.18	Polarity Limit M	1in -40. -29. -24. -25. Over 1imi -29.6 -35.9	er Remark mit .44 Peak .62 Peak .83 Peak .91 Peak Horizontal Remark it .60 Peak .92 Peak .93 Peak	
Туре	1 2 3 4 Mark	MHz 1585.25 2281.32 4871.10 7338.62 802.11n(F Frequency MHz 2281.32 2590.96	dBuV/ 40.76 48.44 44.30 35.58 IT20) Readir dBuV/ 48.46 41.88	g Antenna m dB 25.43 28.04 31.40 36.48 Test channel ng Antenna 'm dB 28.04 27.48	Cable dB 4.45 5.40 8.63 10.11 Cable dB 5.40 5.81	Preamp dB 37.08 37.50 35.16 34.08 H11 Preamp dB 37.50 37.10	dBuV/ 33.56 44.38 49.17 48.09 Level dBuV/ 44.40 38.07	l Limit 'm dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00	1in -40. -29. -24. -25. Over 1imi -29.6 -35.9	er Remark mit .44 Peak .62 Peak .83 Peak .91 Peak Horizontal Remark it .60 Peak .93 Peak	
Type	1 2 3 4 Mark 1 2 3	MHz 1585.25 2281.32 4871.10 7338.62 802.11n(H Frequency MHz 2281.32 2590.96 4933.50	dBuV/ 40.76 48.44 44.30 35.58 HT20) Readir dBuV/ 48.46 41.88 44.16 35.10	g Antenna m dB 25.43 28.04 31.40 36.48 Test channel ng Antenna m dB 28.04 27.48 31.47	Cable dB 4.45 5.40 8.63 10.11 CC dble dB 5.40 5.81 8.75 10.25	Preamp dB 37.08 37.50 35.16 34.08 H11 Preamp dB 37.50 37.10 35.20	dBuV/ 33.56 44.38 49.17 48.09 Leve dBuV/ 44.40 38.07 49.18 47.92	Polarity Limit M	1in -40. -29. -24. -25. Over 1imi -29.6 -35.9	er Remark mit .44 Peak .62 Peak .83 Peak .91 Peak Horizontal Remark it .60 Peak .92 Peak .93 Peak	
	1 2 3 4 Mark 1 2 3	MHz 1585.25 2281.32 4871.10 7338.62 802.11n(H Frequency MHz 2281.32 2590.96 4933.50 7394.88	dBuV/ 40.76 48.44 44.30 35.58 HT20) Readir dBuV/ 48.46 41.88 44.16 35.10	g Antenna m dB 25.43 28.04 31.40 36.48 Test channel ng Antenna dB 28.04 27.48 31.47 36.59	Cable dB 4.45 5.40 8.63 10.11 CC Cable dB 5.40 5.81 8.75 10.25 CC	Preamp dB 37.08 37.50 35.16 34.08 H11 Preamp dB 37.50 37.10 35.20 34.02	dBuV/ 33.56 44.38 49.17 48.09 Leve dBuV/ 44.40 38.07 49.18 47.92	Polarity Limit m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 Polarity	lin -40. -29. -24. -25. Over limi -29.6 -35.9 -24.8	er Remark mit .44 Peak .62 Peak .83 Peak .91 Peak Horizontal Remark it .60 Peak .93 Peak .94 Peak .95 Peak .96 Peak .97 Peak .98 Peak	
	1 2 3 4 Mark 1 2 3 4	MHz 1585.25 2281.32 4871.10 7338.62 802.11n(F Frequency MHz 2281.32 2590.96 4933.50 7394.88 802.11n(F Frequency	dBuV/ 40.76 48.44 44.30 35.58 IT20) Readir dBuV/ 48.46 41.88 44.16 35.10 IT20)	g Antenna m dB 25.43 28.04 31.40 36.48 Test channel ng Antenna dB 28.04 27.48 31.47 36.59 Test channel	Cable dB 4.45 5.40 8.63 10.11 Cable dB 5.40 5.81 8.75 10.25 Cable dB	Preamp dB 37.08 37.50 35.16 34.08 H11 Preamp dB 37.50 37.10 35.20 34.02 H11 Preamp dB	dBuV/ 33.56 44.38 49.17 48.09 Leve. dBuV/ 44.40 38.07 49.18 47.92 Leve. dBuV/	Polarity Limit MBuV/m 74.00 7	lin -40. -29. -24. -25. Over limi -29.6 -35.9 -24.8 -26.6	er Remark mit .44 Peak .62 Peak .83 Peak .91 Peak Horizontal r Remark .11 .00 Peak .03 Peak .03 Peak .03 Peak .04 .05 Peak .05 Peak .05 Peak .06 Peak .07 Peak .08 Peak .08 Peak .09 Peak .00 P	
	1 2 3 4 Mark 1 2 3 4	MHz 1585.25 2281.32 4871.10 7338.62 802.11n(F Frequency MHz 2281.32 2590.96 4933.50 7394.88 802.11n(F Frequency MHz 2281.32	dBuV/ 40.76 48.44 44.30 35.58 HT20) Readir dBuV/ 48.46 41.88 44.16 35.10 HT20) Readir dBuV/ 48.44	g Antenna m dB 25.43 28.04 31.40 36.48 Test channel ng Antenna /m dB 28.04 27.48 31.47 36.59 Test channel ng Antenna /m dB 28.04	Cable dB 4.45 5.40 8.63 10.11 C Cable dB 5.40 5.81 8.75 10.25 C Cable dB 5.40	Preamp dB 37.08 37.50 35.16 34.08 H11 Preamp dB 37.50 34.02 H11 Preamp dB 37.50	dBuV/ 33.56 44.38 49.17 48.09 Leve. dBuV/ 44.40 38.07 49.18 47.92 Leve. dBuV/	Polarity Limit MBuV/m 74.00 7	lin -40. -29. -24. -25. Over limi -29.6 -24.8 -26.6	er Remark mit .44 Peak .62 Peak .83 Peak .91 Peak Horizontal r Remark it .60 Peak .63 Peak .63 Peak .64 Peak .65 Peak .66 Peak .67 Peak .68 Peak .68 Peak .68 Peak .69 Peak .69 Peak .60 Peak	
	1 2 3 4 Mark 1 2 3 4	MHz 1585.25 2281.32 4871.10 7338.62 802.11n(F Frequency MHz 2281.32 2590.96 4933.50 7394.88 802.11n(F Frequency MHz 2281.32 2590.96	dBuV/ 40.76 48.44 44.30 35.58 HT20) Readir dBuV/ 48.46 41.88 44.16 35.10 HT20) Readir dBuV/ 48.44 40.46	g Antenna m dB 25.43 28.04 31.40 36.48 Test channel ng Antenna /m dB 28.04 27.48 31.47 36.59 Test channel ng Antenna /m dB 28.04 27.48	Cable dB 4.45 5.40 8.63 10.11 C Cable dB 5.40 5.81 8.75 10.25 C Cable dB 5.40 5.81	Preamp dB 37.08 37.50 35.16 34.08 H11 Preamp dB 37.50 34.02 H11 Preamp dB 37.50 37.10 35.20 34.02	dBuV/ 33.56 44.38 49.17 48.09 Leve dBuV/ 44.40 38.07 49.18 47.92 Leve dBuV/ 44.38 36.65	Polarity I Limit M dBuV/m 74.00 74.00 74.00 74.00 Polarity I Limit M dBuV/m 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 74.00 Polarity	lin -40. -29. -24. -25. Over limi -29.6 -35.9 -24.8 -26.6	er Remark mit .44 Peak .62 Peak .83 Peak .91 Peak Horizontal r Remark .150 Peak .32 Peak .32 Peak .34 Peak .35 Peak .36 Peak .37 Peak .38 Peak .38 Peak .39 Peak .39 Peak .30 Peak .30 Peak .30 Peak .31 Peak .32 Peak .33 Peak .34 Peak .35 Peak .36 Peak .37 Peak	
	1 2 3 4 Mark 1 2 3 4	MHz 1585.25 2281.32 4871.10 7338.62 802.11n(F Frequency MHz 2281.32 2590.96 4933.50 7394.88 802.11n(F Frequency MHz 2281.32 2590.96	dBuV/ 40.76 48.44 44.30 35.58 HT20) Readir dBuV/ 48.46 41.88 44.16 35.10 HT20) Readir dBuV/ 48.44 40.46 44.06	g Antenna m dB 25.43 28.04 31.40 36.48 Test channel ng Antenna /m dB 28.04 27.48 31.47 36.59 Test channel ng Antenna /m dB 28.04 27.48	Cable dB 4.45 5.40 8.63 10.11 C Cable dB 5.40 5.81 8.75 10.25 C Cable dB 5.40 5.81	Preamp dB 37.08 37.50 35.16 34.08 H11 Preamp dB 37.50 34.02 H11 Preamp dB 37.50 37.10 35.20 34.02	dBuV/ 33.56 44.38 49.17 48.09 Leve dBuV/ 44.40 38.07 49.18 47.92 Leve dBuV/ 44.38 36.65 49.08	Polarity 1 Limit /m dBuV/m 74.00 74.00 74.00 74.00 Polarity 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 74.00 74.00 74.00 74.00 74.00	lin -40. -29. -24. -25. Over limi -29.6 -35.9 -24.8 -26.6	er Remark mit .44 Peak .62 Peak .83 Peak .91 Peak Horizontal r Remark it .60 Peak .63 Peak .63 Peak .64 Peak .65 Peak .66 Peak .67 Peak .68 Peak .68 Peak .68 Peak .69 Peak .69 Peak .60 Peak	

Report No.: CHTEW21100071 Page: 34 of 44 Issued: 2021-10-19

Туре		802.11n(H	HT40)	Test channe	ıl (CH03		Polarity		Horizontal
	Mark	Frequency MHz	Readir dBuV/		Cable dB	Preamp dB	Leve dBuV/		Ove lim	
	1	2287.13	47.30	28.03	5.40	37.52	43.21	74.00	-30.	79 Peak
	2	2584.37	40.21	27.47	5.80	37.12	36.36	74.00	-37.	
	3	4846.37	43.61	31.40	8.57	35.17	48.41	74.00	-25.	
	4	7264.28	35.25	36.40	10.01	34.08	47.58	74.00	-26.	42 Peak
Туре		802.11n(H	HT40)	Test channe	d (CH03		Polarity		Vertical
	Mark	Frequency MHz	Readin dBuV/	_	Cable dB	Preamp dB	Leve dBuV/		Ove lim	
	1	2292.96	47.50	28.01	5.41	37.54	43.38	74.00	-30.	62 Peak
	2	3480.97	38.81	29.02	6.77	36.59	38.01	74.00	-35.	99 Peak
	3	4846.37	44.60	31.40	8.57	35.17	49.40	74.00	-24.	60 Peak
	4	7264.28	36.11	36.40	10.01	34.08	48.44	74.00	-25.	56 Peak
Туре		802.11n(H	HT40)	Test channe	ıl (CH06		Polarity		Horizontal
	Mark	Frequency	Readin	g Antenna	Cable	Preamp	Leve.	l Limit	Over	r Remark
		MHz	dBuV/	m dB	dB	dB	dBuV/r	m dBuV/m	lim	it
	1	2287.13	47.30	28.03	5.40	37.52	43.21	74.00	-30.7	79 Peak
	2	3168.08	38.90	28.96	6.41	37.12	37.15	74.00	-36.8	85 Peak
	3	4846.37	43.57	31.40	8.57	35.17	48.37	74.00	-25.0	
	4	7301.36	36.66	36.40	10.01	34.12	48.95	74.00	-25.0	95 Peak
Туре		802.11n(H	HT40)	Test channe	: (CH06		Polarity		Vertical
	Mark	Frequency	Readin dBuV/		Cable dB	Preamp	Level dBuV/n		Over	
	1	2292.96	47.50	28.01	5.41	37.54	43.38	74.00	-30.6	2 Peak
	2	3454.49	38.33	28.92	6.75	36.57	37.43	74.00	-36.5	7 Peak
	3	4895.97	41.58	31.40	8.70	35.21	46.47	74.00	-27.5	3 Peak
	4	7319.96	36.16	36.44	10.06	34.10	48.56	74.00	-25.4	14 Peak
Гуре		802.11n(H	HT40)	Test channe	: (CH09		Polarity		Horizontal
	Mark	Frequency	Readin dBuV/		Cable dB	Preamp dB	Level		Over limi	
		MHz	39.19	m 05 26.26	4.09	36.41	33.13	74.00	-40.8	
	1	1343 51		20.20		T0.000 TV 10.00	43.21	74.00	-30.7	
	1	1343.51 2287.13		28.03	5.40	3/.3/			-0.1	
	2	2287.13	47.30	28.03	5.40	37.52 35.22		74.00	-24.9	1 Peak
				28.03 31.42 36.55	5.40 8.72 10.20	37.52 35.22 34.04	49.09 48.50	74.00 74.00	-24.9 -25.5	1 Peak 0 Peak
Гуре	2 3	2287.13 4908.44	47.30 44.17 35.79	31.42	8.72 10.20	35.22	49.09			
Гуре	2 3	2287.13 4908.44 7376.08	47.30 44.17 35.79	31.42 36.55 Test channe	8.72 10.20	35.22 34.04 CH09	49.09	74.00 Polarity		0 Peak Vertical
Гуре	2 3 4	2287.13 4908.44 7376.08 802.11n(H	47.30 44.17 35.79	31.42 36.55 Test channe	8.72 10.20	35.22 34.04 CH09	49.09 48.50	74.00 Polarity Limit	-25.5	Vertical
Гуре	2 3 4	2287.13 4908.44 7376.08 802.11n(F	47.30 44.17 35.79 HT40)	31.42 36.55 Test channe	8.72 10.20	35.22 34.04 CH09	49.09 48.50 Level	74.00 Polarity Limit	-25.5 Over	Vertical
Гуре	2 3 4 Mark	2287.13 4908.44 7376.08 802.11n(F	47.30 44.17 35.79 HT40) Readin dBuV/	31.42 36.55 Test channe g Antenna m dB	8.72 10.20 I (Cable dB	35.22 34.04 CH09 Preamp dB	49.09 48.50 Level dBuV/n	Polarity Limit dBuV/m	-25.5 Over	Vertical Remark
Гуре	2 3 4 Mark	2287.13 4908.44 7376.08 802.11n(F Frequency MHz 2292.96	47.30 44.17 35.79 HT40) Readin dBuV/ 47.50	31.42 36.55 Test channe g Antenna dB 28.01	8.72 10.20 Cable dB 5.41	35.22 34.04 CH09 Preamp dB 37.54	49.09 48.50 Level dBuV/n 43.38	Polarity Limit dBuV/m 74.00	-25.5 Over limi -30.6 -35.8 -25.2	Vertical Remark t 2 Peak 7 Peak

Report No.: CHTEW21100071 Page: 35 of 44 Issued: 2021-10-19

6. TEST SETUP PHOTOS

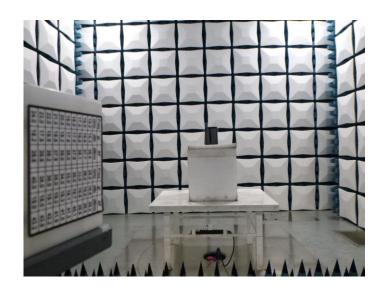
Radiated Emission







Report No.: CHTEW21100071 Page: 36 of 44 Issued: 2021-10-19



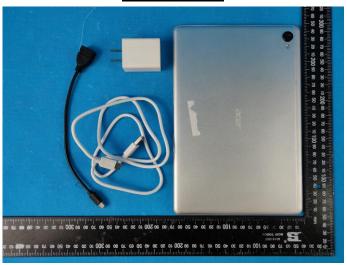
AC Conducted Emission

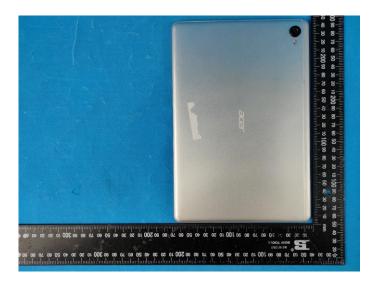


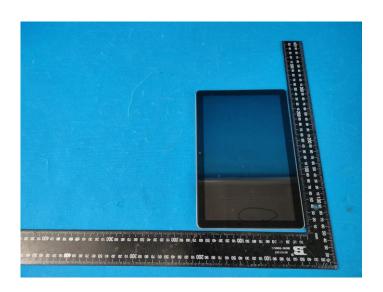
Report No.: CHTEW21100071 Page: 37 of 44 Issued: 2021-10-19

7. EXTERANAL AND INTERNAL PHOTOS

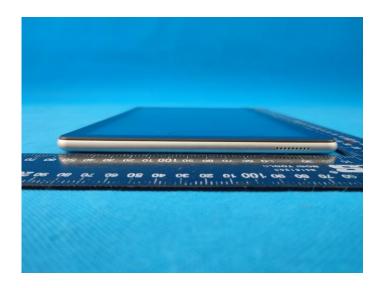
External Photos







Report No.: CHTEW21100071 Page: 38 of 44 Issued: 2021-10-19

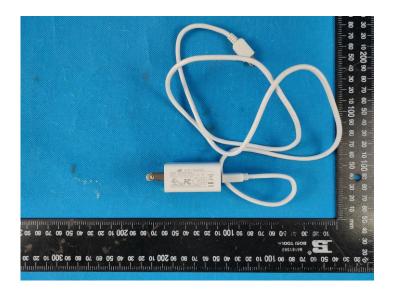






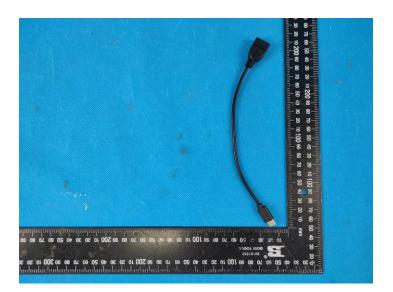
Report No.: CHTEW21100071 Page: 39 of 44 Issued: 2021-10-19





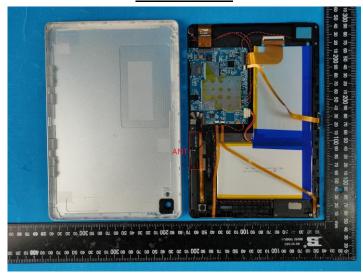


Report No.: CHTEW21100071 Page: 40 of 44 Issued: 2021-10-19

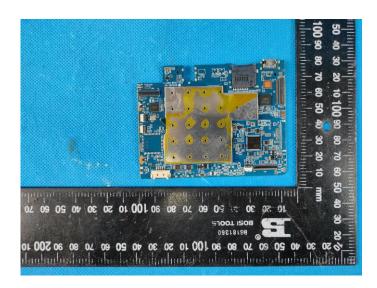


Report No.: CHTEW21100071 Page: 41 of 44 Issued: 2021-10-19

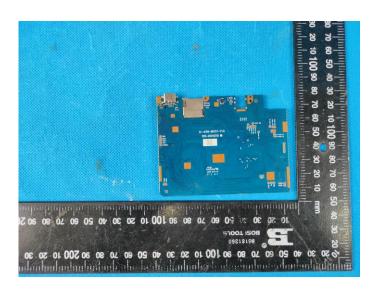
Internal Photos

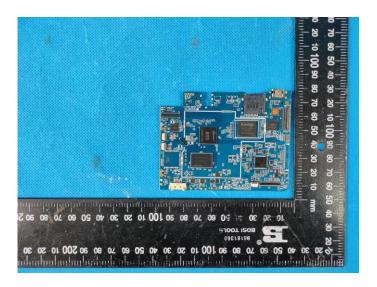






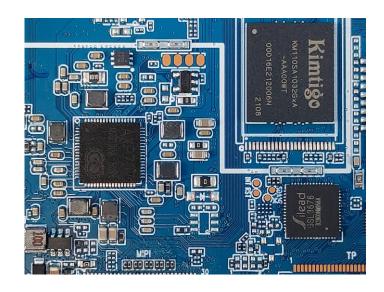
Report No.: CHTEW21100071 Page: 42 of 44 Issued: 2021-10-19

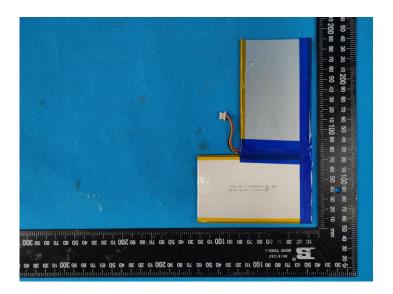


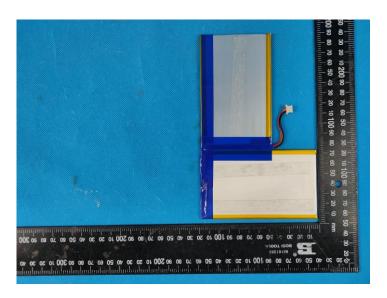




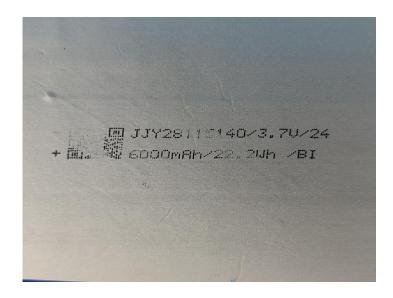
Report No.: CHTEW21100071 Page: 43 of 44 Issued: 2021-10-19







Report No.: CHTEW21100071 Page: 44 of 44 Issued: 2021-10-19



8. APPENDIX REPORT