TEST REPORT

For WiFi-2.4GHz Band

Report No::	CHTEW22090140	Report Verification:

Project No...... SHT2205063201EW

FCC ID.....: 2A2CXFBLB003

Applicant's name.....: Suijimanbu (SHANGHAI) Sports Technology Co.Ltd.

Shanghai

Product Name: Lit Bike

Trade Mark freebeat.

Model No. Lit Bike

Listed Model(s) -

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

Date of receipt of test sample............ Aug. 17, 2022

Date of testing...... Aug. 18, 2022- Sep. 28, 2022

Date of issue...... Sep. 29, 2022

Result...... PASS

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

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The test report merely correspond to the test sample.

Report No.: CHTEW22090140 Page: 2 of 32 Date of issue: 2022-09-29

Contents

<u>1.</u>	TEST STANDARDS AND REPORT VERSION	3
1.1.	Test Standards	3 3
1.2.	Report version	3
<u>2.</u>	TEST DESCRIPTION	4
<u>Z.</u>	TEST DESCRIPTION	
<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
<u></u>	1201 0011111011111111111111111111111111	•
4.1.	Test frequency list	7
4.2.	Descriptions of Test mode	7
4.3.	Test mode	7
4.4.	Test sample information	8
4.5.	Support unit used in test configuration and system	8
4.6.	Testing environmental condition	8
4.7.	Statement of the measurement uncertainty	8
4.8.	Equipment Used during the Test	9
<u>5.</u>	TEST CONDITIONS AND RESULTS	10
5.1.	Antenna Requirement	10
5.2.	AC Conducted Emission	11
5.3.	Peak Output Power	13
5.4.	Power Spectral Density	14
5.5.	6dB bandwidth	15
5.6.	99% Occupied Bandwidth	16
5.7.	Duty Cycle	17
5.8.	Conducted Band edge and Spurious Emission	18
5.9.	Radiated Band edge Emission	20
5.10.	Radiated Spurious Emission	24
<u>6.</u>	TEST SETUP PHOTOS	31
<u>7.</u>	EXTERNAL AND INTERNAL PHOTOS	32
8.	APPENDIX REPORT	32

Report No.: CHTEW22090140 Page: 3 of 32 Date of issue: 2022-09-29

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	2022-09-29	Original

Report No.: CHTEW22090140 Page: 4 of 32 Date of issue: 2022-09-29

2. TEST DESCRIPTION

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

Note:

⁻ The measurement uncertainty is not included in the test result.

 ^{*1:} No requirement on standard, only report these test data.

Report No.: CHTEW22090140 Page: 5 of 32 Date of issue: 2022-09-29

3. **SUMMARY**

3.1. Client Information

Applicant:	Suijimanbu (SHANGHAI) Sports Technology Co.Ltd.	
Address:	Room 507, Zone C, No. 1188, Tianyaoqiao Road, Xuhui District, Shanghai	
Manufacturer:	Suijimanbu (SHANGHAI) Sports Technology Co.Ltd.	
Address:	Room 507, Zone C, No. 1188, Tianyaoqiao Road, Xuhui District, Shanghai	

3.2. Product Description

Main unit information:		
Product Name:	Lit Bike	
Trade Mark:	freebeat.	
Model No.:	Lit Bike	
Listed Model(s):	-	
Power supply:	DC 12.5V from adapter	
Hardware version:	DSP215_MB_PCB_V1.2	
Software version:	V119	
Accessory unit information:		
Adapter information:	Model:XH1250-4000W Input: AC100-240V, 50/60Hz, 1.5A Output: 12.5Vdc, 4.0A	

3.3. Radio Specification Description

Support type ^{*2} :	⊠ 802.11b	⊠ 802.11g	⊠ 802.11n
Support bandwidth:	⊠ 20MHz	☐ 40MHz	
Modulation:	802.11b:	DBPSK, DQPSK, BPSK, QPSK	
Modulation.	802.11g/n:	BPSK, QPSK, 16QAM,	64QAM
Operation frequency:	802.11b/g/n(HT20):	2412MHz~2462MHz	
Channel number:	802.11b/g/n(HT20): 11		
Channel separation:	5MHz		
Antenna technology:	⊠ SISO ☐ MIMO		
Antenna type:	PCB Antenna		
Antenna gain:	2.99dBi		

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

Report No.: CHTEW22090140 Page: 6 of 32 Date of issue: 2022-09-29

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.: CHTEW22090140 Page: 7 of 32 Date of issue: 2022-09-29

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

4.2. Descriptions of Test mode

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

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

4.3. Test mode

For RF test items

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

For AC power line conducted emissions:

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

For Radiated spurious emissions

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.: CHTEW22090140 Page: 8 of 32 Date of issue: 2022-09-29

4.4. Test sample information

Test item	HTW sample no.	
RF Conducted test items	Please refer to the description in the appendix report	
RF Radiated test items	YPHT22050632001	
EMI test items	YPHT22050632001	

Note:

RF Conducted test items: Peak Output Power, Power Spectral Density, 6dB Bandwidth, 99% Occupied Bandwidth, Duty cycle, Conducted Band Edge and Spurious Emission

RF Radiated test items: Radiated Band Edge Emission, Radiated Spurious Emission

EMI test items: AC Conducted Emission

4.5. 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:

Whether support unit is used?			
✓ No			
Item	Equipment	Trade Name	Model No.
1			
2			

4.6. Testing environmental condition

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

4.7. Statement of the measurement uncertainty

Test Item	Measurement Uncertainty
AC Conducted Emission (150kHz~30MHz)	3.00 dB
Radiated Emission (30MHz~1000MHz	4.36 dB
Radiated Emissions (1GHz~25GHz)	5.10 dB
Peak Output Power	0.77dB
Power Spectral Density	0.77dB
Conducted Spurious Emission	0.77dB
6dB Bandwidth	70Hz for <1GHz 130Hz for >1GHz

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

Report No.: CHTEW22090140 Page: 9 of 32 Date of issue: 2022-09-29

4.8. 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	2022/08/30	2023/08/29
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2022/08/29	2023/08/28
•	Pulse Limiter	R&S	HTWE0193	ESH3-Z2	101447	2022/08/29	2023/08/28
•	RF Connection Cable	HUBER+SUHNER	HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2022/09/17	2023/09/16
•	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	2023/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2022/08/30	2023/08/29
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	2024/04/05
•	Ultra-Broadband Antenna	SCHWARZBECK	HTWE0123	VULB9163	538	2021/04/06	2024/04/05
•	Pre-Amplifer	SCHWARZBECK	HTWE0295	BBV 9742	N/A	2021/11/05	2022/11/04
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-01	N/A	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0062-02	SUCOFLEX104	501184/4	2022/02/25	2023/02/24
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated em	ission-7th test si	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	C11121	2018/09/27	2023/09/26
•	Spectrum Analyzer	R&S	HTWE0098	FSP40	100597	2022/08/25	2023/08/24
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2020/04/27	2023/04/26
•	Pre-amplifier	CD	HTWE0071	PAP-0102	12004	2021/11/05	2022/11/04
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	2022/02/28	2023/02/27
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-01	6m 18GHz S Serisa	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-02	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0119-05	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
•	RF Connection Cable	HUBER+SUHNER	HTWE0120-04	6m 3GHz RG Serisa	N/A	2022/02/25	2023/02/24
•	Test Software	Audix	N/A	E3	N/A	N/A	N/A

Report No.: CHTEW22090140 Page: 10 of 32 Date of issue: 2022-09-29

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.

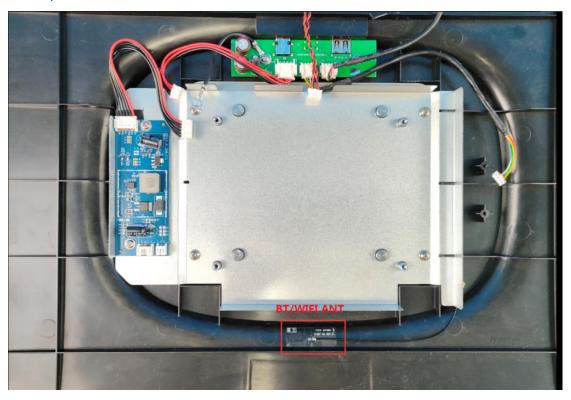
FCC CFR Title 47 Part 15 Subpart C Section 15.247(c) (1)(i):

(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 PCB antenna, the directional gain of the antenna less than 6 dBi, please refer to the below antenna photo.



Report No.: CHTEW22090140 Page: 11 of 32 Date of issue: 2022-09-29

5.2. AC Conducted Emission

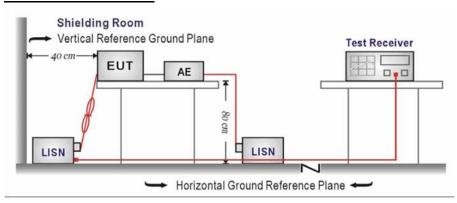
LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.207

Fraguesov rongo (MILIT)	Limit (dBuV)					
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.
- 3. The EUT and simulators are connected to the main power through a line impedances stabilization network (LISN). The LISN provides a 50 ohm /50uH coupling impedance for the measuring equipment.
- 4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
- 5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
- 6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
- 7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
- 8. During the above scans, the emissions were maximized by cable manipulation.

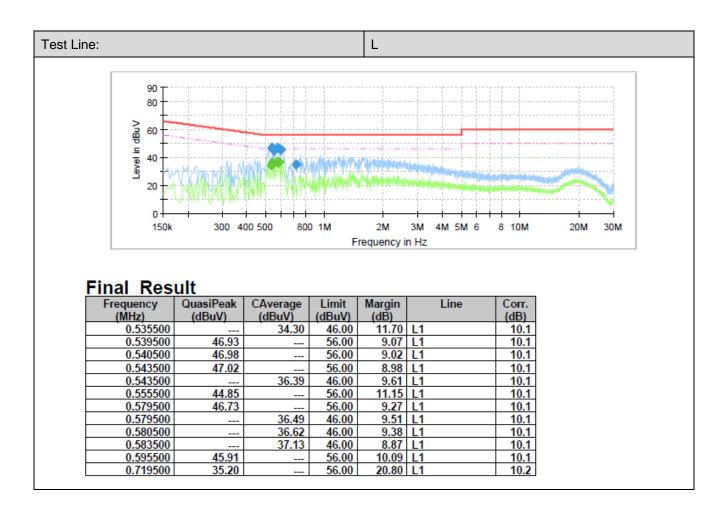
TEST MODE

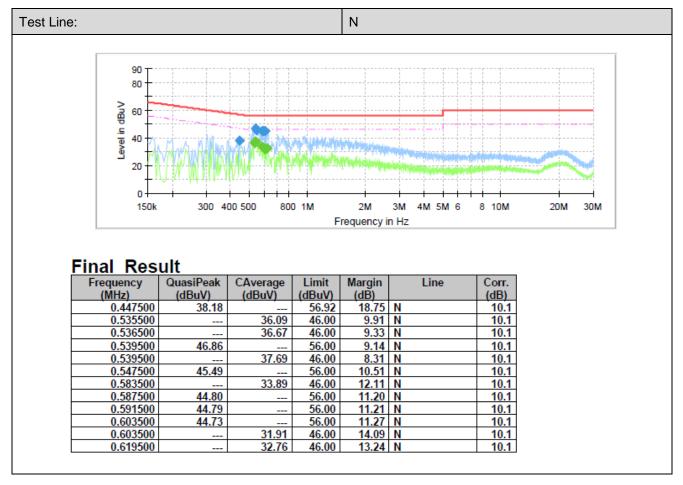
Please refer to the clause 4.2

TEST RESULT

□ Passed □ Not Applicable

Report No.: CHTEW22090140 Page: 12 of 32 Date of issue: 2022-09-29





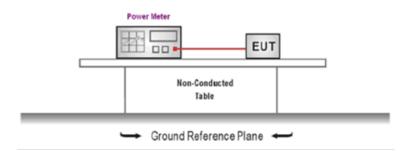
Report No.: CHTEW22090140 Page: 13 of 32 Date of issue: 2022-09-29

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.: CHTEW22090140 Page: 14 of 32 Date of issue: 2022-09-29

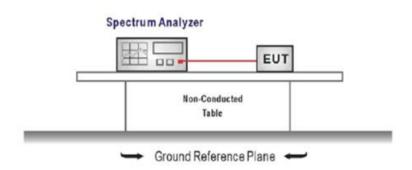
5.4. Power Spectral Density

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 kHz ≤ RBW ≤ 100 kHz, VBW ≥ 3 × RBW

Sweep time = auto couple

Detector = peak

Trace mode = max hold

- 3. Place the radio in continuous transmit mode, allow the trace to stabilize, view the transmitter wave form on the spectrum analyzer.
- 4. Use the peak marker function to determine the maximum amplitude level within the RBW.
- 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.: CHTEW22090140 Page: 15 of 32 Date of issue: 2022-09-29

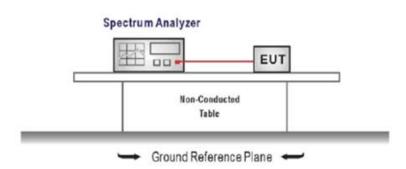
5.5. 6dB bandwidth

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

- 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

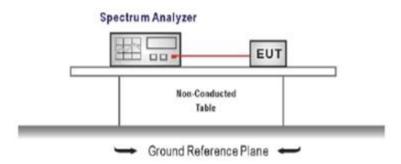
Report No.: CHTEW22090140 Page: 16 of 32 Date of issue: 2022-09-29

5.6. 99% Occupied Bandwidth

LIMIT

N/A

TEST CONFIGURATION



TEST PROCEDURE

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

Center Frequency = channel center frequency

Span≥1.5 x OBW

 $RBW = 1\%\sim5\%OBW$

VBW ≥ 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

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

TEST MODE

Please refer to the clause 4.2

TEST RESULT

TEST DATA

Please refer to appendix D on the appendix report

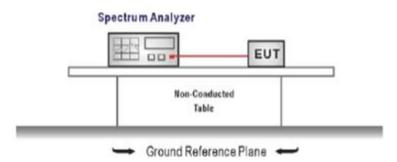
Report No.: CHTEW22090140 Page: 17 of 32 Date of issue: 2022-09-29

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 ≥ 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

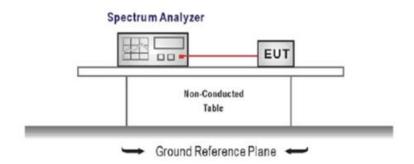
Report No.: CHTEW22090140 Page: 18 of 32 Date of issue: 2022-09-29

5.8. Conducted Band edge and Spurious Emission

<u>LIMIT</u>

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 \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 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.: CHTEW22090140 Page: 19 of 32 Date of issue: 2022-09-29

TEST RESULT

oxedow Passed oxedow Not Applicable

TEST DATA

Please refer to appendix F on the appendix report

Report No.: CHTEW22090140 Page: 20 of 32 Date of issue: 2022-09-29

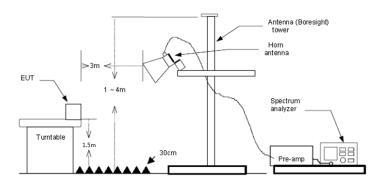
5.9. Radiated Band edge Emission

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.
- 5. Use the following spectrum analyzer settings:
 - a) Span shall wide enough to fully capture the emission being measured
 - b) Set RBW=100kHz for <1GHz, VBW=3*RBW, Sweep time=auto, Detector=peak, Trace=max hold
 - c) Set RBW=1MHz, VBW=3MHz for >1GHz, Sweep time=auto, Detector=peak, Trace=max hold for Peak measurement

For average measurement:

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

TEST MODE

Please refer to the clause 4.2

TEST RESULT

Note:

- 1) 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.: CHTEW22090140 Page: 21 of 32 Date of issue: 2022-09-29

Туре		802.1	1b	Test ch	nannel	CHO)1	Po	olarity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	
	1 2	2310.00 2390.01	39.67 40.39	27.96 27.72	3.89 3.99	37.56 37.45	20.00 20.00	53.96 54.65	74.00 74.00		4 Peak 5 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2310.00 2390.01	28.25 28.26	27.96 27.72	3.89 3.99	37.56 37.45	20.00 20.00	42.54 42.52		-11.46 -11.48	•
Туре		802.1	1b	Test ch	nannel	CHO)1	Po	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 2	2310.00 2390.01	40.21 40.65	27.96 27.72	3.89 3.99	37.56 37.45	20.00 20.00	54.50 54.91	74.00 74.00	-19.50 -19.09	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2310.00 2390.01	28.20 28.38	27.96 27.72	3.89 3.99	37.56 37.45	20.00 20.00	42.49 42.64			Average Average

Туре		802.11	lb	Test ch	annel	CH1	1	Po	larity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	
	1 2	2483.49 2500.00	39.34 40.16	27.43 27.40	4.03 4.04	37.26 37.26	20.00	53.54 54.34	74.00	-20.4	6 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483.49 2500.00	28.04 28.02	27.43 27.40	4.03 4.04	37.26 37.26	20.00		54.00	-11.76	Average
Туре		802.11	lb	Test ch	annel	CH1	1	Pol	larity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	
	1 2	2483.49 2500.00	39.62 40.05	27.43 27.40	4.03 4.04	37.26 37.26	20.00	53.82 54.23	74.00 74.00		8 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over	Remark
	1 2	2483.49 2500.00	28.20 28.11	27.43 27.40	4.03 4.04	37.26 37.26	20.00 20.00	42.40 42.29	54.00	-11.60 -11.71	

Report No.: CHTEW22090140 Page: 22 of 32 Date of issue: 2022-09-29

Туре		802.11	1g	Test ch	annel	CH0	1	Pol	larity		Horizontal
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	0ver	
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m		
	1	2310.00	40.36	27.96	3.89	37.56	20.00	54.65	74.00		5 Peak
	2	2390.01	40.83	27.72	3.99	37.45	20.00	55.09	74.00	-18.9	1 Peak
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	0ver	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2310.00	29.18	27.96	3.89	37.56	20.00	43.47		-10.53	
	2	2390.01	29.86	27.72	3.99	37.45	20.00	44.12	54.00	-9.88	3 Average
Туре		802.11	1g	Test ch	annel	CH0	1	Po	larity		Vertical
	Mark	Frequency	Reading	Antenna	 Cable	Preamp	Aux	Level	Limit	0ver	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2310.00	40.32	27.96	3.89	37.56	20.00	54.61	74.00	-19.39	Peak
	2	2390.01	40.48	27.72	3.99	37.45	20.00	54.74	74.00	-19.26	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	29.02	27.96	3.89	37.56	20.00	43.31	54.00	-10.69	Average

Туре		802.11	g	Test ch	annel	CH1	1	Po	larity		Horizontal
	Mark 1	Frequency MHz 2483.49	Reading dBuV/m 39.99	Antenna dB 27.43	Cable dB 4.03	Preamp dB 37.26	Aux dB 20.00	Level dBuV/m 54.19	Limit dBuV/m 74.00		
	2	2500.00	39.58	27.40	4.04	37.26	20.00	53.76			
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483.49 2500.00	28.97 28.64	27.43 27.40	4.03 4.04	37.26 37.26		43.17 42.82		-10.83 -11.18	Average Average
Туре		802.11	g	Test ch	annel	CH1	1	Pol	larity		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 2	2483.49 2500.00	42.18 40.31	27.43 27.40	4.03 4.04	37.26 37.26	20.00 20.00	56.38 54.49			2 Peak L Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2483.49 2500.00	30.07 28.78	27.43 27.40	4.03 4.04	37.26 37.26		44.27 42.96	54.00	-9.73 -11.04	Average

Report No.: CHTEW22090140 Page: 23 of 32 Date of issue: 2022-09-29

Туре		802.1	1n(HT20)	Test ch	annel	CH0	1	Pol	arity		Horizontal
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over	
	1 2	2310.00 2390.01	39.66 40.58	27.96 27.72	3.89 3.99	37.56 37.45	20.00	53.95 54.84	74.00 74.00	-20.0	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1 2	2310.00 2390.01	29.00	27.96 27.72	3.89 3.99	37.56 37.45	20.00	43.29 44.20	54.00 54.00	-10.71 -9.80	Average
Туре		802.1	1n(HT20)	Test ch	annel	CH0	1	Pol	arity		Vertical
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi	
	1 2	2310.00 2390.01	40.12 41.14	27.96 27.72	3.89 3.99	37.56 37.45	20.00	54.41 55.40	74.00 74.00		9 Peak
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over	
	1 2	2310.00	28.92 30.91	27.96 27.72	3.89 3.99	37.56 37.45	20.00	43.21 45.17		-10.7 -8.8	9 Average

Туре		802.1	1n(HT20)	Test ch	annel	CH1	1	Pol	arity		Horizontal
	Mark	Frequency	Reading	Antenna	Cable	Preamp	Aux	Level	Limit	0ver	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limi	t
	1	2483.49	40.96	27.43	4.03	37.26	20.00	55.16	74.00	-18.84	4 Peak
	2	2500.00	40.24	27.40	4.04	37.26	20.00	54.42	74.00	-19.5	8 Peak
	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	29.18	27.43	4.03	37.26	20.00	43.38	54.00	-10.62	Average
	2	2500.00	28.96	27.40	4.04	37.26	20.00	43.14	54.00	-10.86	Average
Туре		802.1	1n(HT20)	Test ch	annel	CH1	1	Pol	arity		Vertical
	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	41.45	27.43	4.03	37.26	20.00	55.65	74.00	-18.35	Peak
	2	2500.00	40.19	27.40	4.04	37.26	20.00	54.37	74.00	-19.63	Peak
	Manle			^	C-h1-	D	A	11			Damanle
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	2483.49	30.21	27.43	4.03	37.26	20.00	44.41	54.00	-9.59	Average
	2	2500.00	28.91	27.40	4.04	37.26	20.00	43.09	54.00	-10.91	Average

Report No.: CHTEW22090140 Page: 24 of 32 Date of issue: 2022-09-29

5.10. Radiated Spurious Emission

LIMIT

FCC CFR Title 47 Part 15 Subpart C Section 15.209

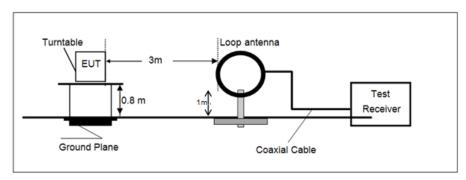
Frequency	Limit (dBuV/m)	Value
0.009 MHz ~0.49 MHz	2400/F(kHz) @300m	Quasi-peak
0.49 MHz ~ 1.705 MHz	24000/F(kHz) @30m	Quasi-peak
1.705 MHz ~30 MHz	30 @30m	Quasi-peak

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.

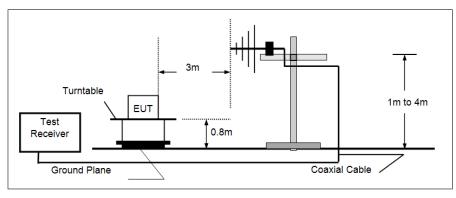
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
Above 1GHz	54.00	Average
Above IGHZ	74.00	Peak

TEST CONFIGURATION

→ 9 kHz ~ 30 MHz

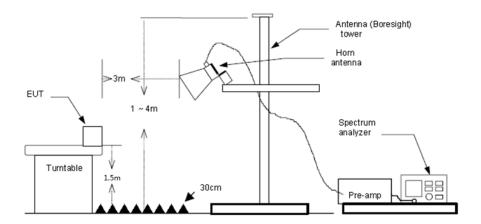


> 30 MHz ~ 1 GHz



Above 1 GHz

Report No.: CHTEW22090140 Page: 25 of 32 Date of issue: 2022-09-29



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 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.
 - 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.: CHTEW22090140 Page: 26 of 32 Date of issue: 2022-09-29

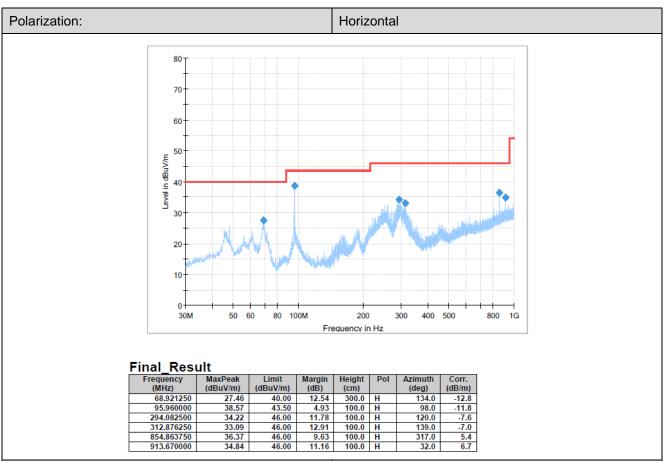
For 9 kHz ~ 30 MHz

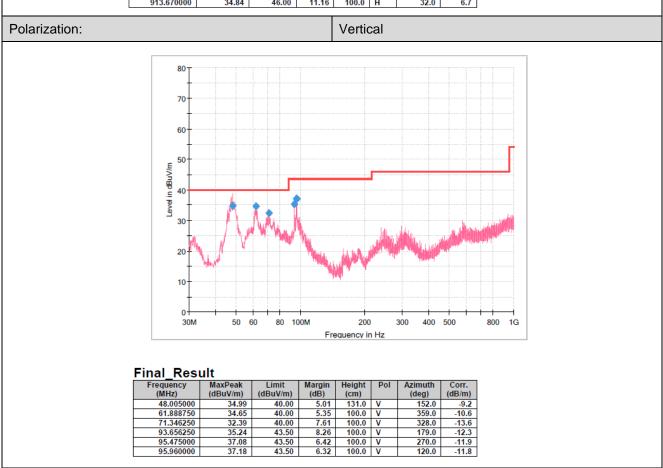
The EUT was pre-scanned this frequency band, found the radiated level 20dB lower than the limit, so don't show data on this report.

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.

27 of 32 Date of issue: Report No.: CHTEW22090140 Page: 2022-09-29





95.475000

37.18

Report No.: CHTEW22090140 Page: 28 of 32 Date of issue: 2022-09-29

For 1 GHz ~ 25 GHz

Туре		802.11b		Test channel		CH01		Polarity		Horizontal	
	Mark	Frequency MHz	Readi dBuV		Cabl dB	le Preamp dB	Leve dBuV/		Over		
	1	1097.88	54.60	25.39	2.65		45.75	74.00	-28.25		
	2	2561.04	54.33	27.42	4.22	37.14	48.83	74.00	-25.17	7 Peak	
	3	2995.54	53.98	28.70	4.64	37.47	49.85	74.00	-24.15	Peak	
	4	4983.99	42.90	31.77	5.81	35.22	45.26	74.00	-28.74	Peak	
Туре		802.11b		Test channel		CH01		Polarity		Vertical	
	Mark	Frequency MHz	Readi dBuV	/m dB	Cabl dB	dB .	Leve dBuV/	m dBuV/m	Over limit		
	1	1332.08	53.96	26.19	2.91		46.68	74.00	-27.32		
	2	2566.67	53.97	27.43	4.23		48.49	74.00	-25.51		
	3	4983.99	48.21	31.77	5.81		50.57	74.00	-23.43		
	4	8042.90	36.53	37.19	7.64	33.31	48.05	74.00	-25.95	Peak	
Туре		802.11b		Test channel		CH06		Polarity		Horizontal	
	Mark	Frequency MHz	Readi dBuV	•	Cabl dB	le Preamp dB	Leve dBuV/		Over limit		
	1	1097.88	54.60	25.39	2.65	36.89	45.75	74.00	-28.29	5 Peak	
	2	2561.04	54.33	27.42	4.22	37.14	48.83	74.00	-25.17	7 Peak	
	3	2995.54	51.21	28.70	4.64	37.47	47.08	74.00	-26.92	2 Peak	
	4	5617.41	39.04	31.90	6.48	35.04	42.38	74.00	-31.62	2 Peak	
Туре		802.11b		Test channel		CH06		Polarity		Vertical	
	Mark	Frequency MHz	Readir dBuV/		Cabl	e Preamp	Leve dBuV/		Over		
	1	1332.08	53.96	26.19	2.91		46.68	74.00	-27.32		
						37.14	48.49	74.00			
	2	2566.67	53.97	27.43	4.23	3/.14	40.45	/4.00	-25.51	L Peak	
	3	2566.67 2995.54	53.97 53.52	27.43 28.70	4.23		49.39	74.00	-25.51		
						37.47				L Peak	
Туре	3	2995.54	53.52	28.70	4.64 5.29	37.47	49.39	74.00	-24.61	L Peak	
Туре	3	2995.54 3993.90	53.52	28.70 29.90 Test channel	4.64 5.29	37.47 36.37 CH11	49.39 45.02	74.00 74.00 Polarity	-24.61	Peak Peak Horizontal Remark	
Туре	3 4	2995.54 3993.90 802.11b	53.52 46.20 Readi	28.70 29.90 Test channel	4.64 5.29 Cabl	37.47 36.37 CH11 e Preamp	49.39 45.02 Leve	74.00 74.00 Polarity	-24.61 -28.98 Over	Horizontal Remark	
Туре	3 4 Mark	2995.54 3993.90 802.11b Frequency MHz	53.52 46.20 Reading	28.70 29.90 Test channel	4.64 5.29 Cabl	37.47 36.37 CH11 Le Preamp dB 36.89	49.39 45.02 Leve dBuV/	74.00 74.00 Polarity Limit m dBuV/m	-24.61 -28.98 Over	Horizontal Remark Peak	
Туре	3 4 Mark	2995.54 3993.90 802.11b Frequency MHz 1097.88	53.52 46.20 Readin dBuV, 54.60	28.70 29.90 Test channel	4.64 5.29 Cabl dB 2.65	37.47 36.37 CH11 Le Preamp dB 36.89 37.14	49.39 45.02 Leve dBuV/ 45.75	74.00 74.00 Polarity 	-24.61 -28.98 Over limit -28.25	Horizontal Remark Peak Peak Therefore Peak Peak Peak	
Туре	3 4 	2995.54 3993.90 802.11b Frequency MHz 1097.88 2561.04	53.52 46.20 Readin dBuV, 54.60 54.33	28.70 29.90 Test channel	4.64 5.29 Cabl dB 2.65 4.22	CH11 Preamp dB 36.89 37.14 37.47	49.39 45.02 Leve dBuV/ 45.75 48.83	74.00 74.00 Polarity 	-24.61 -28.98 Over limit -28.25 -25.17	Horizontal Remark Peak Peak Peak Peak Peak Peak	
Туре	3 4 Mark 1 2 3	2995.54 3993.90 802.11b Frequency MHz 1097.88 2561.04 2987.92	Readin dBuV, 54.60 54.33 54.64	28.70 29.90 Test channel	4.64 5.29 Cabl dB 2.65 4.22 4.61 5.81	CH11 Preamp dB 36.89 37.14 37.47	49.39 45.02 Leve dBuV/ 45.75 48.83 50.48	74.00 74.00 Polarity 	-24.61 -28.98 Over limit -28.25 -25.17 -23.52	Horizontal Remark Peak Peak Peak Peak Peak Peak	
	3 4 Mark 1 2 3	2995.54 3993.90 802.11b Frequency MHz 1097.88 2561.04 2987.92 4983.99	Readir dBuV, 54.60 54.33 54.64 41.70	28.70 29.90 Test channel Ing Antenna Ing	4.64 5.29 Cabl dB 2.65 4.22 4.61 5.81	37.47 36.37 CH11 Le Preamp dB 36.89 2 37.14 37.47 35.22	49.39 45.02 Leve dBuV/ 45.75 48.83 50.48	74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00 74.00 74.00	-24.61 -28.98 Over limit -28.25 -25.17 -23.52	Horizontal Remark Peak Peak Peak Peak Peak Peak Peak	
	3 4 Mark 1 2 3	2995.54 3993.90 802.11b Frequency MHz 1097.88 2561.04 2987.92 4983.99 802.11b	53.52 46.20 Readin dBuV, 54.60 54.33 54.64 41.70	28.70 29.90 Test channel Ing Antenna	Cabl dB 2.65 4.22 4.61 5.81	37.47 36.37 CH11 e Preamp dB 36.89 37.14 37.47 35.22 CH11	49.39 45.02 Leve dBuV/ 45.75 48.83 50.48 44.06	74.00 74.00 Polarity Limit dBuV/m 74.00 74.00 74.00 Polarity Polarity Limit	-24.61 -28.98 Over limit -28.25 -25.17 -23.52 -29.94	Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea	
	3 4 Mark 1 2 3 4	2995.54 3993.90 802.11b Frequency MHz 1097.88 2561.04 2987.92 4983.99 802.11b	83.52 46.20 Readin dBuV, 54.60 54.33 54.64 41.70 Readin dBuV/	28.70 29.90 Test channel Ing Antenna Ing	4.64 5.29 Cabl dB 2.65 4.22 4.61 5.81	37.47 36.37 CH11 e Preamp dB 36.89 37.14 37.47 35.22 CH11	49.39 45.02 Leve dBuV/ 45.75 48.83 50.48 44.06 Leve dBuV/	74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00 74.00 74.00 The state of the state	-24.61 -28.98 Over limit -28.25 -25.17 -23.52 -29.94 Over limit	Horizontal Remark Peak Peak Peak Peak Peak Peak Peak Pea	
	3 4 Mark 1 2 3 4 Mark	2995.54 3993.90 802.11b Frequency MHz 1097.88 2561.04 2987.92 4983.99 802.11b Frequency MHz 1332.08	88-46.20 Readir dBuV/54.60 54.33 54.64 41.70 Readir dBuV/53.96	28.70 29.90 Test channel Ing Antenna Ing	4.64 5.29 Cabl dB 2.65 4.22 4.61 5.81 Cable dB 2.91	37.47 36.37 CH11 e Preamp dB 36.89 37.14 37.47 35.22 CH11 e Preamp dB 36.38	49.39 45.02 Leve dBuV/ 45.75 48.83 50.48 44.06 Leve dBuV/r 46.68	74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00	-24.61 -28.98 Over limit -28.25 -25.17 -23.52 -29.94 Over limit -27.32	Horizontal Remark Peak Peak Peak Peak Peak Vertical Remark Peak	
	3 4 Mark 1 2 3 4	2995.54 3993.90 802.11b Frequency MHz 1097.88 2561.04 2987.92 4983.99 802.11b	83.52 46.20 Readin dBuV, 54.60 54.33 54.64 41.70 Readin dBuV/	28.70 29.90 Test channel Ing Antenna Ing	4.64 5.29 Cabl dB 2.65 4.22 4.61 5.81	37.47 36.37 CH11 e Preamp dB 36.89 37.14 37.47 35.22 CH11 e Preamp dB 36.38 37.14	49.39 45.02 Leve dBuV/ 45.75 48.83 50.48 44.06 Leve dBuV/	74.00 74.00 Polarity Limit m dBuV/m 74.00 74.00 74.00 74.00 The state of the state	-24.61 -28.98 Over limit -28.25 -25.17 -23.52 -29.94 Over limit	Horizontal Remark Peak Peak Peak Peak Peak Vertical Remark Peak Peak	

Report No.: CHTEW22090140 Page: 29 of 32 Date of issue: 2022-09-29

Туре		802.11g		Tes	st channel	С	H01		Polarity		Horizontal	
71 -		3										
	Mark	Frequency	Read:	ina	Antenna	Cable	Preamp	Leve	el Limit	0ve	r Remark	
	rial K	MHz	dBu\	_	dB	dB	dB	dBuV,				
	1	1465.68	57.5		26.04	3.12	36.80	49.92	74.00	-24.0		
	2	2561.04	53.10		27.42	4.22	37.14	47.60	74.00	-26.4		
	3	2995.54	53.83		28.70	4.64	37.47	49.70	74.00	-24.3		
	4	4983.99	42.74		31.77	5.81	35.22	45.10	74.00	-28.9		
Туре		802.11g		Tes	st channel	С	H01		Polarity		Vertical	
	Mark	Frequency	Readi		Antenna	Cable	Preamp	Leve		0ver		
		MHz	dBuV,		dB	dB	dB	dBuV/		limit		
	1	1097.88	55.17		25.39	2.65	36.89	46.32	74.00	-27.68		
	2	2569.49	53.61		27.44	4.24	37.14	48.15	74.00	-25.85		
	3	2987.92	54.62		28.70	4.61	37.47	50.46	74.00	-23.54		
	4	4983.99	43.96		31.77	5.81	35.22	46.32	74.00	-27.68	B Peak	
Туре		802.11g		Tes	st channel	С	H06		Polarity		Horizontal	
	Mark	Frequency	Readi	ng	Antenna	Cable	Preamp	Leve	l Limit	0ver	Remark	
		MHz	dBuV	/m	dB	dB	dB	dBuV/	m dBuV/m	limit	t	
	1	1097.88	55.17		25.39	2.65	36.89	46.32	74.00	-27.68	3 Peak	
	2	2569.49	53.61		27.44	4.24	37.14	48.15	74.00	-25.85	Peak	
	3	3003.17	54.81		28.71	4.65	37.46	50.71	74.00	-23.29	Peak	
	4	4983.99	40.98		31.77	5.81	35.22	43.34	74.00	-30.66	Peak	
Туре		802.11g		Tes	st channel	C	H06		Polarity		Vertical	
Type		802.11g		Tes	st channel	С	H06		Polarity		Vertical	
Туре	Mark	802.11g	Readi		st channel	Cable		Leve		0ve		
Туре	Mark		Readi dBu\	ing				Leve dBuV/	l Limit	Over limit	r Remark	
Type	Mark 1	Frequency		ing V/m	Antenna dB 26.04	Cable	Preamp		l Limit		r Remark t	
Type		Frequency MHz	dBu\	ing V/m	Antenna dB 26.04 27.42	Cable dB	Preamp dB	dBuV/	el Limit /m dBuV/m	limit	r Remark t 8 Peak	
Type	1 2 3	Frequency MHz 1465.68 2561.04 2995.54	dBu\ 57.56 53.10 53.18	ing V/m 6	Antenna dB 26.04 27.42 28.70	Cable dB 3.12 4.22 4.64	Preamp dB 36.80 37.14 37.47	dBuV/ 49.92 47.60 49.05	l Limit /m dBuV/m 74.00 74.00 74.00	limit -24.00 -26.40 -24.9	r Remark t 8 Peak 0 Peak 5 Peak	
Type	1 2	Frequency MHz 1465.68 2561.04	dBu\ 57.56 53.10	ing V/m 6	Antenna dB 26.04 27.42	Cable dB 3.12 4.22	Preamp dB 36.80 37.14	dBuV/ 49.92 47.60	l Limit /m dBuV/m 74.00 74.00	limit -24.08 -26.4	r Remark t 8 Peak 0 Peak 5 Peak	
Type	1 2 3	Frequency MHz 1465.68 2561.04 2995.54	dBu\ 57.56 53.10 53.18	ing V/m 6 0 8	Antenna dB 26.04 27.42 28.70	Cable dB 3.12 4.22 4.64 5.80	Preamp dB 36.80 37.14 37.47	dBuV/ 49.92 47.60 49.05	l Limit /m dBuV/m 74.00 74.00 74.00	limit -24.00 -26.40 -24.9	r Remark t 8 Peak 0 Peak 5 Peak	
	1 2 3	Frequency MHz 1465.68 2561.04 2995.54 4996.69	dBu\ 57.56 53.10 53.18	ing V/m 6 0 8	Antenna dB 26.04 27.42 28.70 31.87	Cable dB 3.12 4.22 4.64 5.80	Preamp dB 36.80 37.14 37.47 35.24	dBuV/ 49.92 47.60 49.05	Limit /m dBuV/m 74.00 74.00 74.00 74.00	limit -24.00 -26.40 -24.9	r Remark t 8 Peak 0 Peak 5 Peak 0 Peak	
•	1 2 3	Frequency MHz 1465.68 2561.04 2995.54 4996.69	dBu\ 57.56 53.10 53.18	ing V/m 6 0 8 7	Antenna dB 26.04 27.42 28.70 31.87	Cable dB 3.12 4.22 4.64 5.80	Preamp dB 36.80 37.14 37.47 35.24	dBuV/ 49.92 47.60 49.05 49.80	el Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity	limit -24.00 -26.40 -24.9	r Remark t 8 Peak 9 Peak 5 Peak 9 Peak Horizontal	
	1 2 3 4	Frequency MHz 1465.68 2561.04 2995.54 4996.69	dBu\ 57.56 53.16 53.18 47.37	ing V/m 6 8 7 Tes	Antenna dB 26.04 27.42 28.70 31.87 st channel	Cable dB 3.12 4.22 4.64 5.80	Preamp dB 36.80 37.14 37.47 35.24	dBuV/ 49.92 47.60 49.05 49.80	Polarity	limit -24.06 -26.40 -24.99 -24.20	r Remark t 8 Peak 9 Peak 5 Peak 9 Peak Horizontal	
	1 2 3 4	Frequency MHz 1465.68 2561.04 2995.54 4996.69 802.11g	dBu\ 57.56 53.16 53.18 47.37	ing V/m 6 0 8 7 Tes	Antenna dB 26.04 27.42 28.70 31.87 st channel	Cable dB 3.12 4.22 4.64 5.80 C	Preamp dB 36.80 37.14 37.47 35.24 H11	dBuV/ 49.92 47.60 49.05 49.80	Polarity	limit -24.06 -26.40 -24.99 -24.20	r Remark t 8 Peak 8 Peak 5 Peak 9 Peak Horizontal	
	1 2 3 4	Frequency MHz 1465.68 2561.04 2995.54 4996.69 802.11g Frequency MHz	dBu\ 57.56 53.16 53.18 47.37 Readi	ing //m 6 7 Tes	Antenna dB 26.04 27.42 28.70 31.87 st channel	Cable dB 3.12 4.22 4.64 5.80 C	Preamp dB 36.80 37.14 37.47 35.24 H11	dBuV/ 49.92 47.60 49.05 49.80 Leve dBuV/	Polarity Limit /m dBuV/m 74.00 74.00 74.00 74.00 74.00	limit -24.00 -26.40 -24.99 -24.20 Over	r Remark t 8 Peak 9 Peak 5 Peak 9 Peak Horizontal	
	1 2 3 4	Frequency MHz 1465.68 2561.04 2995.54 4996.69 802.11g Frequency MHz 1465.68	dBu\ 57.56 53.18 47.37 Readi dBuV 57.56 53.10 54.18	ing V/m 6 0 8 7 Tes	Antenna dB 26.04 27.42 28.70 31.87 St channel Antenna dB 26.04 27.42 28.70	Cable dB 3.12 4.22 4.64 5.80 C	Preamp dB 36.80 37.14 37.47 35.24 H11 Preamp dB 36.80	dBuV/ 49.92 47.60 49.05 49.80 Leve dBuV/ 49.92	Polarity Limit /m dBuV/m 74.00 74.00 74.00 74.00 Limit /m dBuV/m 74.00	limit -24.00 -26.44 -24.99 -24.20 Over limit -24.00	r Remark t 8 Peak 9 Peak 9 Peak Horizontal r Remark t 8 Peak 9 Peak	
	1 2 3 4	Frequency MHz 1465.68 2561.04 2995.54 4996.69 802.11g Frequency MHz 1465.68 2561.04	dBuV 57.56 53.11 47.37 Readi dBuV 57.56 53.10	ing V/m 6 0 8 7 Tes	Antenna dB 26.04 27.42 28.70 31.87 St channel Antenna dB 26.04 27.42	Cable dB 3.12 4.64 5.80 C Cable dB 3.12 4.22	Preamp dB 36.80 37.14 37.47 35.24 H11 Preamp dB 36.80 37.14	dBuV/ 49.92 47.60 49.05 49.80 Leve dBuV/ 49.92 47.60	Polarity Limit /m dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit /m dBuV/m 74.00 74.00 74.00	1imi: -24.00 -26.40 -24.20 -24.20 Over limi: -24.00 -26.40	r Remark t 8 Peak 9 Peak 9 Peak Horizontal	
•	1 2 3 4	Frequency MHz 1465.68 2561.04 2995.54 4996.69 802.11g Frequency MHz 1465.68 2561.04 2995.54	dBu\ 57.56 53.18 47.37 Readi dBuV 57.56 53.10 54.18	ing V/m 6 8 7 Tes	Antenna dB 26.04 27.42 28.70 31.87 St channel Antenna dB 26.04 27.42 28.70	Cable dB 3.12 4.22 4.64 5.80 Cable dB 3.12 4.22 4.64 5.81	Preamp dB 36.80 37.14 37.47 35.24 H11 Preamp dB 36.80 37.14 37.47	dBuV/ 49.92 47.60 49.05 49.80 Leve dBuV/ 49.92 47.60 50.05	Polarity Pl Limit M dBuV/m 74.00 74.00 74.00 74.00 Polarity Pl Limit M dBuV/m 74.00 74.00 74.00 74.00 74.00	1imir -24.0i -26.4(-24.9) -24.2(Over limir -24.0i -26.4(-23.9)	r Remark t 8 Peak 9 Peak 9 Peak Horizontal	
Type	1 2 3 4	Frequency MHz 1465.68 2561.04 2995.54 4996.69 802.11g Frequency MHz 1465.68 2561.04 2995.54 4983.99	dBu\ 57.56 53.18 47.37 Readi dBuV 57.56 53.10 54.18 39.76	Tes	Antenna dB 26.04 27.42 28.70 31.87 St channel Antenna dB 26.04 27.42 28.70 31.77	Cable dB 3.12 4.64 5.80 CCable dB 3.12 4.64 5.81 CC	Preamp dB 36.80 37.14 37.47 35.24 H11 Preamp dB 36.80 37.14 37.47 35.22	dBuV/ 49.92 47.60 49.05 49.80 Leve dBuV/ 49.92 47.60 50.05 42.12	Polarity Polarity Polarity Polarity Polarity	1imir -24.0i -26.4i -24.9i -24.2i Over 1imir -24.0i -26.4i -23.9i -31.8i	r Remark t 8 Peak 9 Peak 9 Peak 10 Peak 10 Peak 11 Peak 12 Peak 13 Peak 14 Peak 15 Peak 16 Peak 17 Peak 18 Peak	
Type	1 2 3 4	Frequency MHz 1465.68 2561.04 2995.54 4996.69 802.11g Frequency MHz 1465.68 2561.04 2995.54 4983.99 802.11g	dBu\ 57.56 53.18 47.37 Readi dBuV 57.56 53.10 54.18 39.76	Tes	Antenna dB 26.04 27.42 28.70 31.87 St channel Antenna dB 26.04 27.42 28.70 31.77 St channel	Cable dB 3.12 4.64 5.80 Cable dB 3.12 4.64 5.81 Cable Cable	Preamp dB 36.80 37.14 37.47 35.24 H11 Preamp dB 36.80 37.14 37.47 35.22 H11	dBuV/ 49.92 47.60 49.05 49.80 Leve dBuV/ 49.92 47.60 50.05 42.12	Polarity	1imir -24.0i -26.4i -24.9! -24.2i Over 1imir -24.0i -26.4i -23.9! -31.8i	r Remark t 8 Peak 9 Peak 9 Peak 10 Peak 10 Peak 10 Peak 11 Peak 12 Peak 13 Peak 14 Peak 15 Peak 16 Peak 16 Peak 17 Peak 18 Peak 18 Peak 18 Peak 19 Peak 10 Pea	
Type	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1465.68 2561.04 2995.54 4996.69 802.11g Frequency MHz 1465.68 2561.04 2995.54 4983.99 802.11g Frequency MHz	dBu\ 57.56 53.18 47.37 Readi dBuV 57.56 53.10 54.18 39.76 Readi dBuV	Tes	Antenna dB 26.04 27.42 28.70 31.87 St channel Antenna dB 26.04 27.42 28.70 31.77 St channel Antenna dB	Cable dB 3.12 4.64 5.80 Cable dB 3.12 4.64 5.81 Cable dB	Preamp dB 36.80 37.14 37.47 35.24 H11 Preamp dB 36.80 37.14 37.47 35.22 H11 Preamp dB	dBuV/ 49.92 47.60 49.05 49.80 Leve dBuV/ 49.92 47.60 50.05 42.12 Leve dBuV/	Polarity	limir -24.00 -26.40 -24.99 -24.20 Over limir -24.00 -26.40 -23.99 -31.80 Over limit	Remark te Reak Peak Peak Peak Peak Peak Peak Peak P	
Type	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1465.68 2561.04 2995.54 4996.69 802.11g Frequency MHz 1465.68 2561.04 2995.54 4983.99 802.11g Frequency MHz 1465.68	dBu\ 57.56 53.18 47.37 Readi dBuV 57.56 53.10 54.18 39.76 Readi dBuV 55.17	Tes	Antenna dB 26.04 27.42 28.70 31.87 St channel Antenna dB 26.04 27.42 28.70 31.77 St channel Antenna dB	Cable dB 3.12 4.64 5.80 Cable dB 3.12 4.64 5.81 Cable dB 2.65	Preamp dB 36.80 37.14 37.47 35.24 H11 Preamp dB 36.80 37.14 37.47 35.22 H11 Preamp dB 36.89	dBuV/ 49.92 47.60 49.05 49.80 Leve dBuV/ 49.92 47.60 50.05 42.12 Leve dBuV/ 46.32	Polarity Polarity Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit M dBuV/m 74.00 74.00 Polarity Polarity	1imir -24.0i -26.4i -24.9i -24.2i Over 1imir -24.0i -26.4i -23.9i -31.8i	Remark te Reak Peak Peak Peak Peak Horizontal Remark te Peak Peak Peak Peak Peak Peak Peak Pea	
Type	1 2 3 4 Mark 1 2 3 4 Mark 1 2 2 3 4 Mark 1 2 2 3 4 Mark	Frequency MHz 1465.68 2561.04 2995.54 4996.69 802.11g Frequency MHz 1465.68 2561.04 2995.54 4983.99 802.11g Frequency MHz 1097.88 2569.49	dBu\ 57.56 53.18 47.37 Readi dBuV 57.56 53.19 54.18 39.76 Readi dBuV 55.17 53.61	Tes	Antenna dB 26.04 27.42 28.70 31.87 St channel Antenna dB 26.04 27.42 28.70 31.77 St channel Antenna dB 25.39 27.44	Cable dB 3.12 4.64 5.80 Cable dB 3.12 4.64 5.81 Cable dB 2.65 4.24	Preamp dB 36.80 37.14 37.47 35.24 H11 Preamp dB 36.80 37.14 37.47 35.22 H11 Preamp dB 36.89 37.14	dBuV/ 49.92 47.60 49.05 49.80 Leve dBuV/ 49.92 47.60 50.05 42.12 Leve dBuV/ 46.32 48.15	Polarity Polarity 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 74.00 74.00	1imir -24.00 -26.44 -24.99 -24.20 Over limir -24.04 -23.99 -31.80 Over limit -27.68 -25.85	Remark t Peak Peak Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak Peak Peak Peak Peak	
Type	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1465.68 2561.04 2995.54 4996.69 802.11g Frequency MHz 1465.68 2561.04 2995.54 4983.99 802.11g Frequency MHz 1465.68	dBu\ 57.56 53.18 47.37 Readi dBuV 57.56 53.10 54.18 39.76 Readi dBuV 55.17	Tes	Antenna dB 26.04 27.42 28.70 31.87 St channel Antenna dB 26.04 27.42 28.70 31.77 St channel Antenna dB	Cable dB 3.12 4.64 5.80 Cable dB 3.12 4.64 5.81 Cable dB 2.65	Preamp dB 36.80 37.14 37.47 35.24 H11 Preamp dB 36.80 37.14 37.47 35.22 H11 Preamp dB 36.89	dBuV/ 49.92 47.60 49.05 49.80 Leve dBuV/ 49.92 47.60 50.05 42.12 Leve dBuV/ 46.32	Polarity Polarity Polarity Limit M dBuV/m 74.00 74.00 74.00 74.00 Polarity Limit M dBuV/m 74.00 74.00 Polarity Polarity	1imir -24.0i -26.4i -24.9i -24.2i Over 1imir -24.0i -26.4i -23.9i -31.8i	Remark t Peak Peak Peak Peak Peak Peak Peak Horizontal Remark t Peak Peak Peak Peak Peak Peak Peak Peak	

Report No.: CHTEW22090140 Page: 30 of 32 Date of issue: 2022-09-29

Туре		802.11n(H	T20)	Test channel	(CH01		Polarity		Horizontal
	Mark	Frequency MHz	Readi dBuV	•	Cable dB	e Preamp dB	Leve dBuV/		Ove	
	1	1661.23	53.08		3.24		44.22	74.00	-29.7	
	2	2371.47	51.48		3.97		45.72	74.00	-28.2	
	3	2987.92	53.59		4.61	37.47	49.43	74.00	-24.5	
	4	8063.40	35.92		7.65	33.32	47.45	74.00	-26.5	
Туре		802.11n(H	T20)	Test channel	(CH01		Polarity		Vertical
	Mark	Frequency	Readir		Cable				0ver	Remark
		MHz	dBuV,		dB	dB	dBuV/m		limit	
	1	1330.61	52.73	26.19	2.91	36.37	45.46	74.00	-28.54	
	2	2667.28	51.43	27.80	4.22	37.03	46.42	74.00	-27.58	
	3	2987.92	54.80	28.70	4.61	37.47	50.64	74.00	-23.36	Peak
	4	4983.99	40.68	31.77	5.81	35.22	43.04	74.00	-30.96	Peak
Туре		802.11n(H	T20)	Test channel	(CH06		Polarity		Horizontal
	Mark	Frequency MHz	Readin dBuV/		Cable dB	Preamp dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark
	1	1661.23	53.08	25.10	3.24	37.20	44.22	74.00	-29.78	Peak
	2	2371.47	51.48	27.76	3.97		45.72		-28.28	Peak
	3	2987.92	50.54	28.70	4.61		46.38		-27.62	Peak
	4	5762.24	39.73	31.92	6.63		43.42		-30.58	Peak
Туре		802.11n(H	T20)	Test channel	(CH06		Polarity		Vertical
	Mark	Frequency	Readi		Cable				0ver	
		MHz	dBuV,		dB	dB	dBuV/r	n dBuV/m	limit	
	1	1330.61	52.73	26.19	2.91	36.37	45.46	74.00	-28.54	
	2	2667.28	51.43	27.80	4.22	37.03	46.42	74.00	-27.58	Peak
	3	2995.54	54.36	28.70	4.64	37.47	50.23	74.00	-23.77	Peak
	4	4983.99	45.03	31.77	5.81	35.22	47.39	74.00	-26.61	Peak
Туре		802.11n(H	T20)	Test channel	(CH11		Polarity		Horizontal
Туре							Leve		Over	
Туре	Mark	Frequency	Readi	ng Antenna	Cable	Preamp		l Limit	Over	Remark
Туре		Frequency MHz	Readi dBuV	ng Antenna /m dB	Cable dB	Preamp	dBuV/r	l Limit n dBuV/m	limit	Remark
Гуре	1	Frequency MHz 1661.23	Readi dBuV, 53.08	ng Antenna /m dB 25.10	Cable dB 3.24	Preamp dB 37.20	dBuV/r 44.22	l Limit n dBuV/m 74.00	limit -29.78	Remark : Peak
Гуре	1 2	Frequency MHz 1661.23 2371.47	Readi dBuV, 53.08 51.48	ng Antenna /m dB 25.10 27.76	Cable dB 3.24 3.97	Preamp dB 37.20 37.49	dBuV/r 44.22 45.72	l Limit n dBuV/m 74.00 74.00	limit -29.78 -28.28	Remark : Peak Peak
Гуре	1	Frequency MHz 1661.23	Readi dBuV, 53.08	ng Antenna /m dB 25.10	Cable dB 3.24	Preamp dB 37.20 37.49	dBuV/r 44.22	l Limit n dBuV/m 74.00	limit -29.78	Remark : B Peak B Peak G Peak
	1 2 3	Frequency MHz 1661.23 2371.47 2995.54	Readi dBuV, 53.08 51.48 50.97 40.32	ng Antenna /m dB 25.10 27.76 28.70	Cable dB 3.24 3.97 4.64 5.81	Preamp dB 37.20 37.49 37.47	dBuV/r 44.22 45.72 46.84	Limit n dBuV/m 74.00 74.00 74.00	limit -29.78 -28.28 -27.16	Remark : B Peak B Peak G Peak
Type Type	1 2 3	Frequency MHz 1661.23 2371.47 2995.54 4983.99	Readi dBuV, 53.08 51.48 50.97 40.32	ng Antenna /m dB 25.10 27.76 28.70 31.77	Cable dB 3.24 3.97 4.64 5.81	Preamp dB 37.20 37.49 37.47 35.22	dBuV/r 44.22 45.72 46.84 42.68	L Limit n dBuV/m 74.00 74.00 74.00 74.00 74.00	limit -29.78 -28.28 -27.16	Remark Peak Peak Peak Peak Peak
	1 2 3	Frequency MHz 1661.23 2371.47 2995.54 4983.99	Readi dBuV, 53.08 51.48 50.97 40.32	ng Antenna /m dB 25.10 27.76 28.70 31.77 Test channel	Cable dB 3.24 3.97 4.64 5.81	Preamp dB 37.20 37.49 37.47 35.22	dBuV/r 44.22 45.72 46.84 42.68	L Limit n dBuV/m 74.00 74.00 74.00 74.00 74.00	limit -29.78 -28.28 -27.16	Remark Peak Peak Peak Peak Vertical
	1 2 3 4	Frequency MHz 1661.23 2371.47 2995.54 4983.99 802.11n(H	Readin dBuV, 53.08 51.48 50.97 40.32	ng Antenna /m dB 25.10 27.76 28.70 31.77 Test channel	Cable dB 3.24 3.97 4.64 5.81	Preamp dB 37.20 37.49 37.47 35.22	dBuV/r 44.22 45.72 46.84 42.68	l Limit n dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity	limit -29.78 -28.28 -27.16 -31.32	Remark Peak Peak Peak Peak Vertical
	1 2 3 4	Frequency MHz 1661.23 2371.47 2995.54 4983.99 802.11n(H	Readin dBuV, 53.08 51.48 50.97 40.32 T20)	ng Antenna /m dB 25.10 27.76 28.70 31.77 Test channel	Cable dB 3.24 3.97 4.64 5.81	Preamp dB 37.20 37.49 37.47 35.22 CH11	dBuV/r 44.22 45.72 46.84 42.68	l Limit n dBuV/m 74.00 74.00 74.00 74.00 Polarity	limit -29.78 -28.28 -27.16 -31.32	Remark Peak Peak Peak Peak Vertical
	1 2 3 4	Frequency MHz 1661.23 2371.47 2995.54 4983.99 802.11n(H	Readin dBuV, 53.08 51.48 50.97 40.32 T20)	ng Antenna /m dB 25.10 27.76 28.70 31.77 Test channel	Cable dB 3.24 3.97 4.64 5.81 (Cable dB 2.91	Preamp dB 37.20 37.49 37.47 35.22 CH11 Preamp dB 36.37	dBuV/r 44.22 45.72 46.84 42.68 Leve dBuV/r 45.46	L Limit n dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m 74.00	1imit -29.78 -28.28 -27.16 -31.32 Over limit -28.54	Remark Peak Peak Peak Peak Vertical Remark
	1 2 3 4	Frequency MHz 1661.23 2371.47 2995.54 4983.99 802.11n(H	Readin dBuV, 53.08 51.48 50.97 40.32 T20)	ng Antenna /m dB 25.10 27.76 28.70 31.77 Test channel	Cable dB 3.24 3.97 4.64 5.81	Preamp dB 37.20 37.49 37.47 35.22 CH11	dBuV/r 44.22 45.72 46.84 42.68	L Limit n dBuV/m 74.00 74.00 74.00 74.00 74.00 Polarity Limit m dBuV/m	limit -29.78 -28.28 -27.16 -31.32 Over limit	Remark Peak Peak Peak Vertical Remark Peak

Report No.: CHTEW22090140 Page: 31 of 32 Date of issue: 2022-09-29

6. TEST SETUP PHOTOS

Radiated Emission







Report No.: CHTEW22090140 Page: 32 of 32 Date of issue: 2022-09-29



AC Conducted Emission



7. EXTERNAL AND INTERNAL PHOTOS

Refer to the test report No.: CHTEW22090138

8. APPENDIX REPORT