

TEST REPORT

Report No	CHTEW21080012 Rep	port Verification:	
Project No	SHT2107001003EW		
FCC ID:	2AZP5-E506TA		Reporting: CHTW/2000012
Applicant's name:	DUO AMERICA, LLC		
Address:	8925 NW 26TH ST, DORAL, MI	AMI, Florida, Unit	ed States
Test item description:	Smart Phone		
Trade Mark	HYUNDAI		
Model/Type reference	E506		
Listed Model(s)	-		
Standard:	FCC CFR Title 47 Part 15 Subp	oart C Section 15	5.247
Date of receipt of test sample	Jul. 02, 2021		
Date of testing	Jul. 03, 2021- Aug. 02, 2021		
Date of issue	Aug. 03, 2021		
Result	PASS	,	
Compiled by			
	File administrator Silvia Li	Si	lvia Li
(Position+Printed name+Signature):	File administrator Silvia Li	<u> 5</u> i	lvia Li
	File administrator Silvia Li Project Engineer Aaron Fang	Si Aar	lvia Li ron.Fang
(Position+Printed name+Signature): Supervised by		Si Aar H	lvia Li ron.Fang formsHM
(Position+Printed name+Signature): Supervised by (Position+Printed name+Signature): Approved by	Project Engineer Aaron Fang	Si Aar H	lvia Li ron.Fang fum.SHM
(Position+Printed name+Signature): Supervised by (Position+Printed name+Signature): Approved by	Project Engineer Aaron Fang		
(Position+Printed name+Signature): Supervised by (Position+Printed name+Signature): Approved by (Position+Printed name+Signature):	Project Engineer Aaron Fang RF Manager Hans Hu	tional Inspection	n Co., Ltd.
 (Position+Printed name+Signature): Supervised by (Position+Printed name+Signature): Approved by (Position+Printed name+Signature): Testing Laboratory Name: :	Project Engineer Aaron Fang RF Manager Hans Hu Shenzhen Huatongwei Interna 1/F, Bldg 3, Hongfa Hi-tech Indu Gongming, Shenzhen, China	itional Inspection	n Co., Ltd.
 (Position+Printed name+Signature): Supervised by (Position+Printed name+Signature): Approved by (Position+Printed name+Signature): Testing Laboratory Name	Project Engineer Aaron Fang RF Manager Hans Hu Shenzhen Huatongwei Interna 1/F, Bldg 3, Hongfa Hi-tech Indu Gongming, Shenzhen, China ection Co., Ltd. All rights reserved. e or in part for non-commercial purpos edged as copyright owner and source sponsibility for and will not assume lia terial due to its placement and context	ational Inspection Istrial Park, Genyu ses as long as the S of the material. She ability for damages r	Co., Ltd. U Road, Tianliao, Shenzhen Huatongwei enzhen Huatongwei

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

- <u>FCC Rules Part 15.247</u>: Frequency Hopping, Direct Spread Spectrum and Hybrid Systems that are in operation within the bands of 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz
- ANSI C63.10:2013: American National Standard for Testing Unlicensed Wireless Devices
- KDB 558074 D01 15.247 Meas Guidance v05r02: Guidance for Compliance Measurements on Digital Transmission System, Frequency Hopping Spread Spectrum System, and Hybrid System Devices Operating under Section 15.247 of The FCC Rules

1.2. Report version

Revision No.	Date of issue	Description
N/A	2021-08-03	Original

2. TEST DESCRIPTION

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

Note:

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

3. SUMMARY

3.1. Client Information

Applicant:	DUO AMERICA, LLC	
Address:	8925 NW 26TH ST, DORAL, MIAMI, Florida, United States	
Manufacturer:	Shenzhen Tinno Mobile Technology Corp	
Address:	No.33, Xiandong Road, Nanshan District, Shenzhen, P.R.China	

3.2. Product Description

Name of EUT:	Smart Phone
Trade Mark:	HYUNDAI
Model No.:	E506
Listed Model(s):	-
Power supply:	DC 3.8V
Battery Information:	DC 3.8V, 2550mAh
Adapter Information:	Model:TN-050120U9 Input: AC100-240V, 50/60Hz 0.2A Output: 5.0Vdc, 1.2A 6.0W
Hardware version:	V0.3
Software version:	HYUNDAI_E506_V1.1.1_20210611_debug

3.3. Radio Specification Description

Support type ^{*2} :	802.11b, 802.11g, 802.11n(HT20),	
Modulation:	DSSS for 802.11b OFDM for 802.11g/802.11n(HT20)	
Operation frequency:	2412MHz~2462MHz for 802.11b/802.11g/802.11n(HT20)	
Channel number:	11 for 802.11b/802.11g/802.11n(HT20)	
Channel separation:	5MHz	
Antenna type:	PIFA Antenna	
Antenna gain:	-2.15dBi	

Note:

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

3.4. Testing Laboratory Information

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

4. TEST CONFIGURATION

4.1. Test frequency list

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

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

4.2. Descriptions of Test mode

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

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

4.3. Test mode

For RF test items

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

For AC power line conducted emissions:

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

For Radiated spurious emissions test item:

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

4.4. Support unit used in test configuration and system

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

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

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

4.5. Testing environmental condition

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

4.6. Measurement uncertainty

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

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

4.7. Equipment Used during the Test

•	Conducted 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 R&S R&S		HTWE0111	ESCI	101247	2020/10/19	2021/10/18
•	Artificial Mains	SCHWARZBECK	HTWE0113	NNLK 8121	573	2020/10/15	2021/10/14
•	Pulse Limiter	R&S	HTWE0033	ESH3-Z2	100499	2020/10/15	2021/10/14
•	RF Connection Cable HUBER+SUHNER		HTWE0113-02	ENVIROFLE X_142	EF-NM- BNCM-2M	2020/10/15	2021/10/14
•	Test Software	R&S	N/A	ES-K1	N/A	N/A	N/A

•	Radiated 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	2021/09/29
•	EMI Test Receiver	R&S	HTWE0099	ESCI	100900	2020/10/19	2021/10/18
•	Loop Antenna	R&S	HTWE0170	HFH2-Z2	100020	2021/04/06	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	2021/09/26
•	Spectrum R&S Analyzer		HTWE0098	HTWE0098 FSP40 1005		2020/10/20	2021/10/19
•	Horn Antenna	SCHWARZBECK	HTWE0126	9120D	1011	2020/04/01	2023/03/31
•	Broadband Horn Antenna	SCHWARZBECK	HTWE0103	BBHA9170	BBHA9170472	2018/10/11	2021/10/11
•	Pre-amplifier CD		HTWE0071	PAP-0102	12004	2020/11/13	2021/11/12
•	Broadband Pre- amplifier	SCHWARZBECK	HTWE0201	BBV 9718	9718-248	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	HTWE0120-03	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		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

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

5. TEST CONDITIONS AND RESULTS

5.1. Antenna Requirement

<u>Requirement</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.203:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responseble party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

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

(i) Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. Point-to-point operations may employ transmitting antennas with directional gain greater than 6 dBi provided the maximum conducted output power of the intentional radiator is reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi.

TEST RESULT

☑ Passed □ Not Applicable

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



5.2. AC Conducted Emission

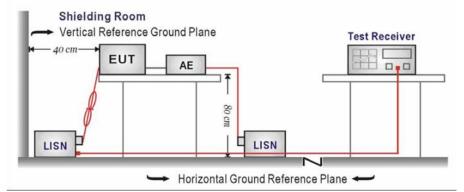
<u>LIMIT</u>

FCC CFR Title 47 Part 15 Subpart C Section 15.207

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

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

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

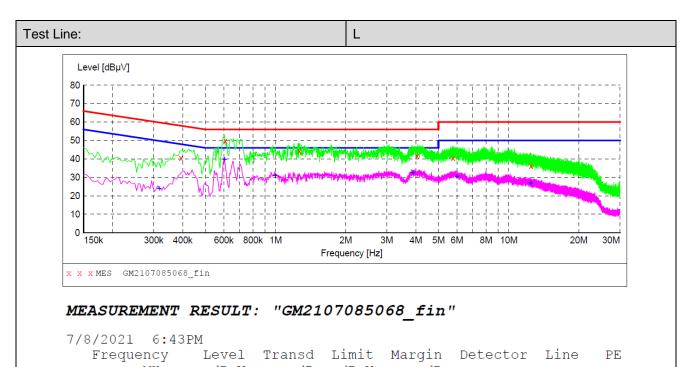
TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

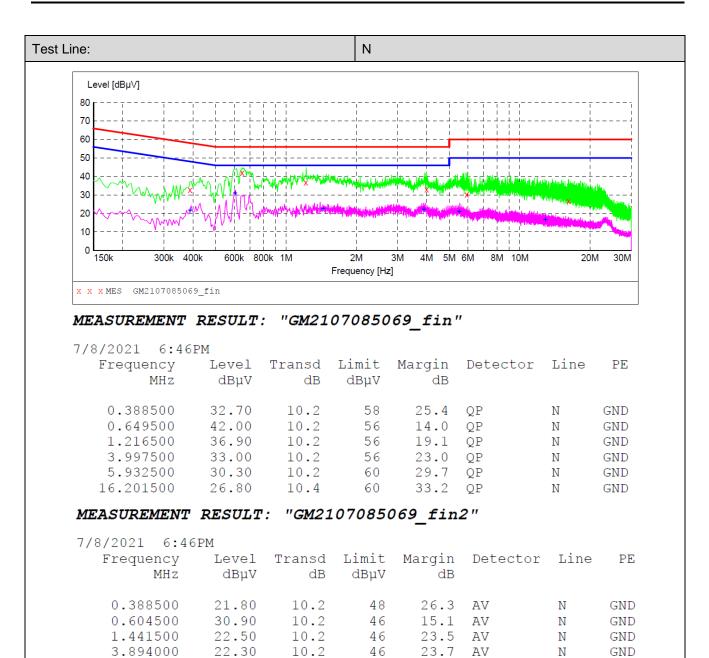
Shenzhen Huatongwei International Inspection Co., Ltd.



MHz	dBµV	dB	dBµV	dB			
0.393000	40.50	10.2	58	17.5	QP	L1	GND
0.609000	49.90	10.2	56	6.1	QP	L1	GND
1.266000	44.40	10.2	56	11.6	QP	L1	GND
4.051500	41.50	10.2	56	14.5	QP	L1	GND
5.775000	40.60	10.2	60	19.4	QP	L1	GND
12.480000	36.30	10.4	60	23.7	QP	L1	GND

MEASUREMENT RESULT: "GM2107085068 fin2"

7/8/2021 6:43	3PM						
Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
MHz	dBµV	dB	dBµV	dB			
0.316500	23.90	10.2	50	25.9	AV	L1	GND
0.604500	39.70	10.2	46	6.3	AV	L1	GND
0.996000	31.10	10.2	46	14.9	AV	L1	GND
3.876000	32.50	10.2	46	13.5	AV	L1	GND
5.986500	30.40	10.2	50	19.6	AV	L1	GND
12.421500	26.90	10.4	50	23.1	AV	L1	GND



5.505000

12.867000

21.10

16.60

10.2

10.4

50

50

28.9 AV

33.4 AV

Ν

Ν

GND

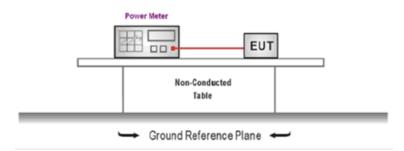
GND

5.3. Peak Output Power

LIMIT

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

TEST CONFIGURATION



TEST PROCEDURE

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

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

TEST Data

Please refer to appendix A on the appendix report

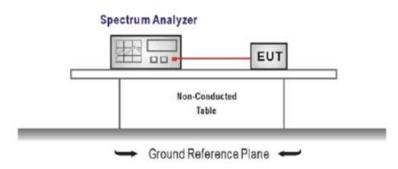
5.4. Power Spectral Density

<u>LIMIT</u>

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

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

TEST CONFIGURATION



TEST PROCEDURE

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

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

TEST Data

Please refer to appendix B on the appendix report

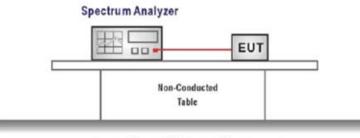
5.5. 6dB bandwidth

<u>LIMIT</u>

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

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

TEST CONFIGURATION



➡ Ground Reference Plane

TEST PROCEDURE

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

Center Frequency =DTS channel center frequency

Span=2 x DTS bandwidth

RBW = 100 kHz, VBW \ge 3 × RBW

Sweep time= auto couple

Detector = Peak

Trace mode = max hold

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

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

🛛 Passed 🛛 🗌 Not

Not Applicable

TEST Data

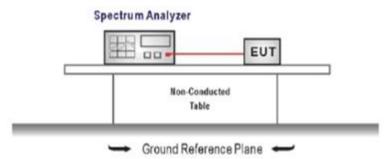
Please refer to appendix C on the appendix report

5.6. 99% Occupied Bandwidth

<u>LIMIT</u>

N/A

TEST CONFIGURATION



TEST PROCEDURE

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

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

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

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

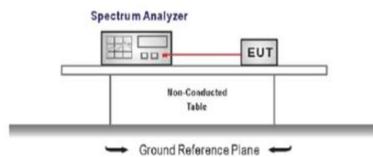
TEST Data

Please refer to appendix D on the appendix report

5.7. Duty Cycle

N/A

TEST CONFIGURATION



TEST PROCEDURE

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

Detector function = peak, Trigger mode

4. Measure and record the duty cycle data

TEST MODE:

Please refer to the clause 4.2

TEST Data

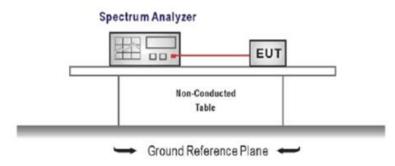
Please refer to appendix E on the appendix report

5.8. Conducted Band edge and Spurious Emission

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

Use the peak marker function to determine the maximum PSD level

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

3. Emission level measurement

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

RBW = 100 kHz, VBW \ge 3 x RBW

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

Allow trace to fully stabilize

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

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

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

TEST Data

Please refer to appendix F on the appendix report

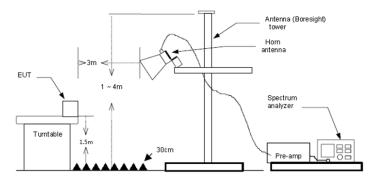
5.9. Radiated Band edge Emission

<u>LIMIT</u>

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

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

TEST CONFIGURATION



TEST PROCEDURE

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

For average measurement:

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

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

Note:

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

Туре		802.11)	Test ch	annel	CH	101	F	olarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/		Ove n lir		
	1 2			27.96 27.72	7.30 7.72		20.00 20.00			-20.3	36 Peak	
		MHz		dB	dB	dB	dB	dBuV/m		Over limit		
	-	2310.00 2390.01			7.30		20.00 20.00		7 54.00 3 54.00	-9.13 -7.87	0	
Туре		802.11)	Test ch	annel	CH	101	F	Polarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/		Ove n lin		
	1 2		34.41 33.62	27.96 27.72	7.30 7.72		20.00 20.00		74.00 74.00			
	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	28.31 28.28	27.96 27.72	7.30 7.72	37.56 37.45	20.00 20.00		01 54.00 27 54.00	-7.99 -7.73		

Туре		802.11	b	Test ch	annel	CH	111	ļ	Polarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi		
	_	2483.49 2500.00	35.49	27.43 27.40	7.80 7.81	37.26 37.26	20.00 20.00	53.46 52.50	74.00	-20.54 -21.50		
	Mark	Frequency MHz		Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
		2483.49 2500.00			7.80 7.81	37.26 37.26	20.00 20.00		2 54.00 5 54.00	-6.18 -9.65	Average Average	
Туре		802.11	b	Test ch	annel	CH	111		Polarity		Vertical	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	e Pream dB	p Aux dB	Level dBuV/r				
	_	2483.49 2500.00	35.33 33.96	27.43 27.40	7.80 7.81	37.26	20.00 20.00	53.30 51.91	74.00 74.00	-20.70	9 Peak	
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	-	2483.49 2500.00		27.43 27.40		37.26 37.26	20.00 20.00		7 54.00 3 54.00	-6.93 -9.47	Average Average	

Туре		802.11g	1	Test ch	annel	CH	01	Po	arity		Horizontal	
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/n			
	1 2	2310.00 2390.01		27.96 27.72	7.30 7.72	37.56 37.45	20.00 20.00	50.98 61.76	74.00 74.00	-23.02 -12.24		
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	_	2310.00	22.58	27.96	7.30	37.56	20.00			-13.72	Average	
		2389.36 2390.01	32.93 32.72	27.72 27.72	7.72 7.72	37.45 37.45	20.00 20.00		54.00 54.00		Average Average	
Туре		802.11g	I	Test ch	annel	CH	01	Po	arity		Vertical	
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/n	Over 1 limi		
	1 2		34.04	27.96 27.72	7.30 7.72	37.56	20.00 20.00	51.74 57.30		-22.20	5 Peak	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Preamp dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limi		
		2310.00 2390.01	22.36 29.22	27.96 27.72	7.30 7.72	37.56 37.45	20.00 20.00		54.00 54.00	-13.94 -6.79	0	

Туре		802.11g		Test ch	annel	СН	11	Po	larity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/r			
	2	2483.49 2484.22 2500.00	50.00 52.12 40.28	27.43 27.43 27.40	7.80 7.80 7.81	37.26 37.26 37.26	20.00 20.00 20.00	67.97 70.09 58.23	74.00 74.00 74.00	-6.(-3.9	03 Peak 01 Peak	
		Frequency MHz	Reading dBuV/m	dB	Cable dB	dB	Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	_	2483.49 2500.00	31.33 22.61	27.43 27.40		37.26 37.26	20.00 20.00		54.00 54.00	-4.70 -13.44	0	
Туре		802.11g		Test ch	annel	CH	11	Po	larity		Vertical	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	o Aux dB	Level dBuV/m	Limit dBuV/r			
	1 2	2483.49 2483.57	49.47 50.87	27.43 27.43	7.80 7.80	37.26 37.26	20.00 20.00	67.44 68.84	74.00 74.00	-6.5 -5.1	6 Peak 6 Peak	
	3 Mark	2500.00 Frequency	44.48 Reading	27.40 Antenna	7.81 Cable	37.26 Preamp	20.00 Aux	62.43 Level	74.00 Limit	-11.5	7 Peak Remark	
	1 2	MHz 2483.49 2500.00	dBuV/m 30.69 22.19	dB 27.43 27.40	dB 7.80 7.81	dB 37.26 37.26	dB 20.00 20.00	dBuV/m 48.66	dBuV/m 54.00	limi -5.34 -13.86	t Average	

Туре		802.11n	(HT20)	Test	channe	əl	CH01	P	olarity		Horizontal	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	e Prea dB	mp Aux dB	Level dBuV/m	Limit dBuV/r			
	1 2	2310.00 2390.01	34.02 44.71	27.96 27.72	7.30 7.72	37.56 37.45		51.72 62.70	74.00 74.00			
	Marl	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	np Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1	2310.00 2388.82		27.96	7.30	37.56	20.00	49.44	54.00	-13.84	Average	
Туре	3	2390.01 802.11n	31.29 (HT20)	27.72	7.72 channe	37.45 əl	20.00 CH01		54.00 olarity	-4.72	Average Vertical	
	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Prear dB	mp Aux dB	Level dBuV/m	Limit dBuV/n	Over 1 limi		
	1 2	2310.00 2390.01		27.96 27.72	7.30 7.72	37.56 37.45	20.00 20.00	52.22 58.62	74.00 74.00	-21.78 -15.38		
-	Mark	Frequency MHz	Reading dBuV/m	Antenna dB	Cable dB	Pream dB	p Aux dB	Level dBuV/m	Limit dBuV/m	Over limit	Remark	
	1 2	2310.00 2390.01	22.46	27.96 27.72	7.30	37.56 37.45	20.00 20.00	40.16		-13.84 -3.09	Average Average	

Туре		802.11n	(HT20)	Test	channe	əl	CH11	P	olarity		Horizontal
	Mark	Frequency	Reading	Antenna	Cable	Prear	mp Aux	Level	Limit	Over	. Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limi	it
	1	2483.49	44.04	27.43	7.80	37.26	20.00	62.01	74.00	-11.99) Peak
	2	2484.69	51.07	27.43	7.80	37.26	20.00	69.04	74.00	-4.96	5 Peak
	3	2500.00	39.50	27.40	7.81	37.26	20.00	57.45	74.00	-16.55	6 Peak
	Mark	Frequency	Reading	Antenna	Cable	Pream	o Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483.49	31.20	27.43	7.80	37.26	20.00	49.17	54.00	-4.83	Average
	2	2484.65	31.21	27.43	7.80	37.26	20.00	49.18	54.00	-4.82	Average
	3	2500.00	22.65	27.40	7.81	37.26	20.00	40.60	54.00 -:	13.40	Average
Туре		802.11n	(HT20)	Test	channe	el	CH11	P	olarity		Vertical
	Mark	Frequency	Reading	Antenna	Cable	e Prea	amp Aux	Level	Limit	0ve	r Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m			
	1	2483.49	42,61	27.43	7.80			60.58		-13.4	
	2	2483.57	50,51	27.43	7.80			68.48	74.00	-5.5	
	3	2500.00	41.94	27.40	7.81			59.89	74.00	-14.1	
	Mark	Frequency	Reading	Antenna	Cable	Pream	p Aux	Level	Limit	Over	Remark
		MHz	dBuV/m	dB	dB	dB	dB	dBuV/m	dBuV/m	limit	
	1	2483.49	30.60	27.43	7.80	37.26	20.00	-	54.00	-5.43	Average
	2	2500.00	22.29	27.40	7.81	37.26	20.00			13.76	Average

5.10. Radiated Spurious Emission

<u>LIMIT</u>

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

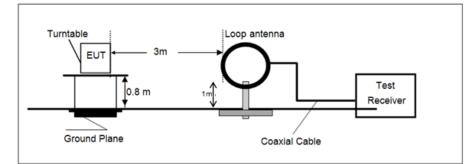
Note: Limit dBuV/m @3m = Limit dBuV/m @300m + 40*log(300/3)= Limit dBuV/m @300m +80,

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

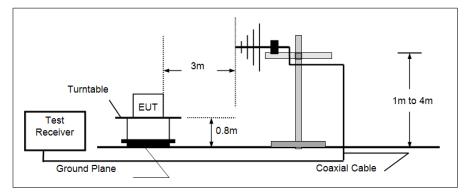
Frequency	Limit (dBuV/m @3m)	Value
30MHz~88MHz	40.00	Quasi-peak
88MHz~216MHz	43.50	Quasi-peak
216MHz~960MHz	46.00	Quasi-peak
960MHz~1GHz	54.00	Quasi-peak
	54.00	Average
Above 1GHz	74.00	Peak

TEST CONFIGURATION

➢ 9 kHz ~ 30 MHz

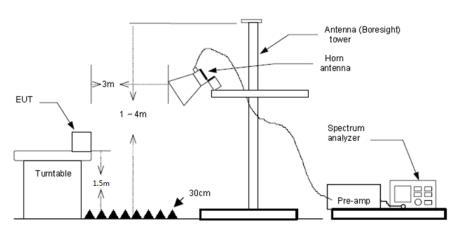


> 30 MHz ~ 1 GHz



> Above 1 GHz

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TEST PROCEDURE

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

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

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

For average measurement:

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

TEST MODE:

Please refer to the clause 4.2

TEST RESULT

☑ Passed □ Not Applicable

Note:

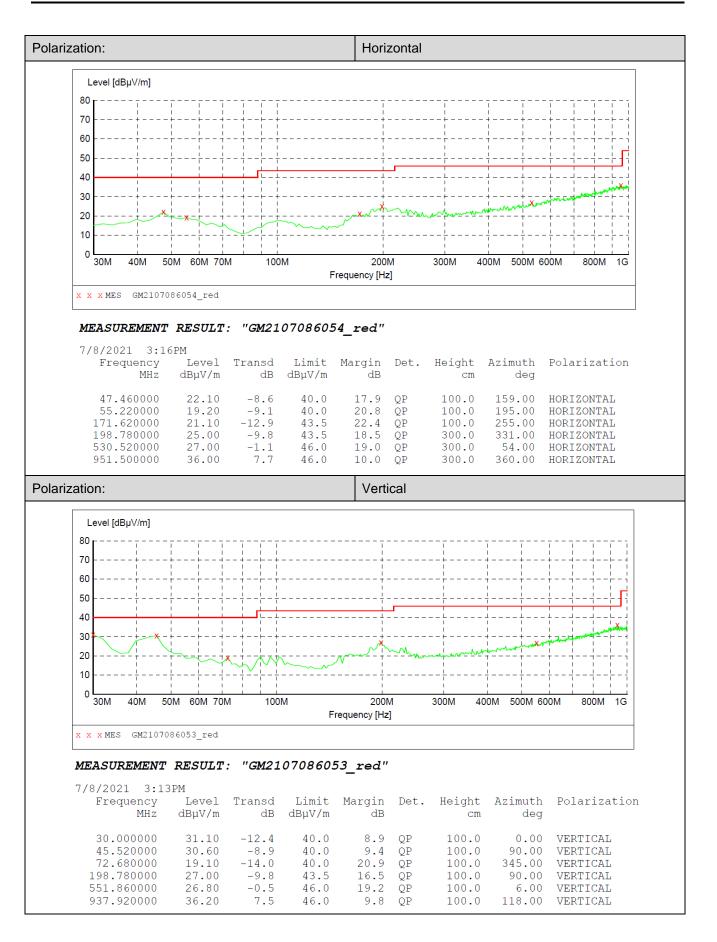
- 1) Level= Reading + Factor/Transd; Factor/Transd = Antenna Factor+ Cable Loss- Preamp Factor
- 2) Over Limit = Level- Limit
- Average measurement was not performed if peak level is lower than average limit(54 dBuV/m) for above 1GHz.

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

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

TEST DATA FOR 30 MHz ~ 1000 MHz

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



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

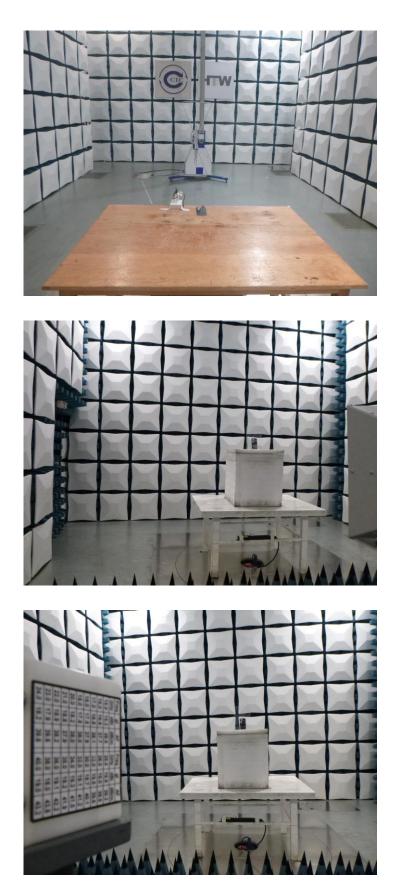
Туре		802.11b		Test channel	(CH01		Polarity	Horizontal	
	Mark 1	Frequency MHz 1127.09	Readin dBuV/r 35.74		Cable dB 5.00	Preamp dB 36.84	Leve dBuV/ 29.30	m dBuV/m li	er Remark mit .70 Peak	
	2	4821.76	33.10		11.52	35.24	40.78		.22 Peak	
	3	7245.81	31.02		13.69	34.06	47.06		.94 Peak	
	4	10944.09	29.43	40.60	16.72	36.72	50.03	74.00 -23	.97 Peak	
Туре		802.11b		Test channel	(CH01		Polarity	Vertical	
								1		
	Mark	Frequency MHz	Readin dBuV/	-	Cable dB	Preamp dB	Leve dBuV/		er Remark .mit	
	1	1170.96	36.15	25.48	5.06	36.70	29.99		.01 Peak	
	2	5177.97	31.07	31.83	11.49	35.43	38.96		.04 Peak	
	3	7245.81	30.77	36.41	13.69	34.06	46.81		.19 Peak	
	4	10971.98	29.58	40.60	16.73	36.69	50.22	74.00 -23	.78 Peak	
Туре		802.11b		Test channel	(CH06		Polarity	Horizontal	
	Mark	Frequency MHz	dBuV/	m dB	Cable dB	dB	Leve dBuV/	/m dBuV/m li	ver Remark Imit	
	1	1232.12	35.45	25.79	5.20	36.57	29.87		13 Peak	
	2	4700.57	31.67	31.40	11.12	35.74	38.45		5.55 Peak	
	3 4	7643.68 10427.37	30.12 31.31	36.31 39.93	14.70 16.37	33.17	47.96		5.04 Peak 3.60 Peak	
	4	10427.57	51.51	59.95	10.57	37.21	50.40	74.00 -23	.00 Peak	
T										
Туре		802.11b		Test channel	(CH06		Polarity	Vertical	
Туре										
Туре	Mark	Frequency MHz	dBuV/	ng Antenna 'm dB	Cable dB	Preamp dB	Leve dBuV/	l Limit Ov /m dBuV/m li	er Remark mit	
Туре	1	Frequency MHz 1270.33	dBuV/ 35.31	ng Antenna m dB 25,94	Cable dB 5.32	Preamp dB 36.42	dBuV/ 30.15	1 Limit Ov m dBuV/m li 74.00 -43	er Remark mit .85 Peak	
Туре	1 2	Frequency MHz 1270.33 4809.50	dBuV/ 35.31 30.40	ng Antenna m dB 25.94 31.40	Cable dB 5.32 11.52	Preamp dB 36.42 35.28	dBuV/ 30.15 38.04	1 Limit Ov m dBuV/m li 74.00 -43 74.00 -35	er Remark mit .85 Peak .96 Peak	
Туре	1 2 3	Frequency MHz 1270.33 4809.50 7227.39	dBuV/ 35.31 30.40 31.00	ng Antenna m dB 25.94 31.40 36.45	Cable dB 5.32 11.52 13.71	Preamp dB 36.42 35.28 34.03	dBuV/ 30.15 38.04 47.13	H Limit Ov m dBuV/m li 74.00 -43 74.00 -35 74.00 -26	er Remark mit .85 Peak .96 Peak .87 Peak	
Туре	1 2	Frequency MHz 1270.33 4809.50 7227.39 9834.41	dBuV/ 35.31 30.40	ng Antenna dB 25.94 31.40 36.45 39.53	Cable dB 5.32 11.52 13.71 15.14	Preamp dB 36.42 35.28 34.03 36.42	dBuV/ 30.15 38.04	el Limit Ov /m dBuV/m li 74.00 -43 74.00 -35 74.00 -26 74.00 -23	er Remark mit .85 Peak .96 Peak .87 Peak .90 Peak	
Туре	1 2 3	Frequency MHz 1270.33 4809.50 7227.39	dBuV/ 35.31 30.40 31.00	ng Antenna m dB 25.94 31.40 36.45	Cable dB 5.32 11.52 13.71 15.14	Preamp dB 36.42 35.28 34.03	dBuV/ 30.15 38.04 47.13	H Limit Ov m dBuV/m li 74.00 -43 74.00 -35 74.00 -26	er Remark mit .85 Peak .96 Peak .87 Peak	
	1 2 3	Frequency MHz 1270.33 4809.50 7227.39 9834.41	dBuV/ 35.31 30.40 31.00	ng Antenna m dB 25.94 31.40 36.45 39.53 Test channel g Antenna	Cable dB 5.32 11.52 13.71 15.14	Preamp dB 36.42 35.28 34.03 36.42 CH11	dBuV/ 30.15 38.04 47.13	el Limit Ov 'm dBuV/m li 74.00 -43 74.00 -35 74.00 -26 74.00 -23 Polarity el Limit Ov	er Remark mit .85 Peak .96 Peak .87 Peak .90 Peak	
	1 2 3 4	Frequency MHz 1270.33 4809.50 7227.39 9834.41 802.11b Frequency	dBuV/ 35.31 30.40 31.00 31.85 Readin dBuV/	ng Antenna m dB 25.94 31.40 36.45 39.53 Test channel g Antenna	Cable dB 5.32 11.52 13.71 15.14 Cable	Preamp dB 36.42 35.28 34.03 36.42 CH11 Preamp dB	dBuV/ 30.15 38.04 47.13 50.10 Leve	el Limit Ov (m dBuV/m li 74.00 -43 74.00 -35 74.00 -26 74.00 -23 Polarity el Limit Ov (m dBuV/m li	er Remark mit .85 Peak .96 Peak .87 Peak .90 Peak Horizontal	
	1 2 3 4 Mark	Frequency MHz 1270.33 4809.50 7227.39 9834.41 802.11b Frequency MHz	dBuV/ 35.31 30.40 31.00 31.85 Readin	rg Antenna dB 25.94 31.40 36.45 39.53 Test channel g Antenna m dB 25.56	Cable dB 5.32 11.52 13.71 15.14 Cable dB	Preamp dB 36.42 35.28 34.03 36.42 CH11 Preamp dB 36.66	dBuV/ 30.15 38.04 47.13 50.10 Leve dBuV/	21 Limit Ov 74.00 -43 74.00 -35 74.00 -26 74.00 -23 Polarity 21 Limit Ov 74.00 -23	er Remark mit .85 Peak .96 Peak .87 Peak .90 Peak Horizontal 	
	1 2 3 4 Mark	Frequency MHz 1270.33 4809.50 7227.39 9834.41 802.11b Frequency MHz 1188.98 4996.69 7172.41	dBuV/ 35.31 30.40 31.00 31.85 Readin dBuV/ 35.68 30.40 30.14	g Antenna dB 25.94 31.40 36.45 39.53 Test channel g Antenna m dB 25.56 31.87 36.39	Cable dB 5.32 11.52 13.71 15.14 Cable dB 5.08 11.57 13.68	Preamp dB 36.42 35.28 34.03 36.42 CH11 Preamp dB 36.66 35.24 33.98	dBuV/ 30.15 38.04 47.13 50.10 Leve dBuV/ 29.66 38.60 46.23	el Limit Ov 'm dBuV/m li 74.00 -43 74.00 -25 74.00 -23 Polarity el Limit Ov 'm dBuV/m li 74.00 -44 74.00 -35 74.00 -27	er Remark mit .85 Peak .96 Peak .87 Peak .90 Peak Horizontal er Remark mit .34 Peak .40 Peak .77 Peak	
	1 2 3 4 Mark	Frequency MHz 1270.33 4809.50 7227.39 9834.41 802.11b Frequency MHz 1188.98 4996.69	dBuV/ 35.31 30.40 31.00 31.85 Readin dBuV/ 35.68 30.40	g Antenna dB 25.94 31.40 36.45 39.53 Test channel g Antenna m dB 25.56 31.87 36.39	Cable dB 5.32 11.52 13.71 15.14 Cable dB 5.08 11.57	Preamp dB 36.42 35.28 34.03 36.42 CH11 Preamp dB 36.66 35.24	dBuV/ 30.15 38.04 47.13 50.10 Leve dBuV/ 29.66 38.60	el Limit Ov 'm dBuV/m li 74.00 -43 74.00 -25 74.00 -23 Polarity el Limit Ov 'm dBuV/m li 74.00 -44 74.00 -35 74.00 -27	er Remark mit .85 Peak .96 Peak .87 Peak .90 Peak Horizontal er Remark mit .34 Peak .40 Peak	
	1 2 3 4 Mark	Frequency MHz 1270.33 4809.50 7227.39 9834.41 802.11b Frequency MHz 1188.98 4996.69 7172.41	dBuV/ 35.31 30.40 31.00 31.85 Readin dBuV/ 35.68 30.40 30.14	g Antenna dB 25.94 31.40 36.45 39.53 Test channel g Antenna m dB 25.56 31.87 36.39	Cable dB 5.32 11.52 13.71 15.14 Cable dB 5.08 11.57 13.68 16.68	Preamp dB 36.42 35.28 34.03 36.42 CH11 Preamp dB 36.66 35.24 33.98	dBuV/ 30.15 38.04 47.13 50.10 Leve dBuV/ 29.66 38.60 46.23	el Limit Ov 'm dBuV/m li 74.00 -43 74.00 -25 74.00 -23 Polarity el Limit Ov 'm dBuV/m li 74.00 -44 74.00 -35 74.00 -27	er Remark mit .85 Peak .96 Peak .87 Peak .90 Peak Horizontal er Remark mit .34 Peak .40 Peak .77 Peak	
Туре	1 2 3 4 Mark	Frequency MHz 1270.33 4809.50 7227.39 9834.41 802.11b Frequency MHz 1188.98 4996.69 7172.41 10888.51	dBuV/ 35.31 30.40 31.00 31.85 Readin dBuV/ 35.68 30.40 30.14 29.46 Readin	ng Antenna dB 25.94 31.40 36.45 39.53 Test channel g Antenna m dB 25.56 31.87 36.39 40.57 Test channel	Cable dB 5.32 11.52 13.71 15.14 Cable dB 5.08 11.57 13.68 16.68 Cable	Preamp dB 36.42 35.28 34.03 36.42 CH11 Preamp dB 36.66 35.24 33.98 36.76 CH11 Preamp	dBuV/ 30.15 38.04 47.13 50.10 Leve dBuV/ 29.66 38.60 46.23 49.95 Leve	21 Limit Ov 74.00 -43 74.00 -26 74.00 -23 Polarity 21 Limit Ov 74.00 -23 Polarity 21 Limit Ov 74.00 -24 74.00 -24 74.00 -24 74.00 -24 Polarity 21 Limit Ov	er Remark mit .85 Peak .96 Peak .87 Peak .90 Peak Horizontal .90 Peak .91 Peak .34 Peak .34 Peak .34 Peak .34 Peak .34 Peak .34 Peak .34 Peak .35 Peak .05 Peak	
Туре	1 2 3 4 Mark 1 2 3 4	Frequency MHz 1270.33 4809.50 7227.39 9834.41 802.11b Frequency MHz 1188.98 4996.69 7172.41 10888.51 802.11b Frequency	dBuV/ 35.31 30.40 31.00 31.85 Readin dBuV/ 35.68 30.40 30.14 29.46	ng Antenna dB 25.94 31.40 36.45 39.53 Test channel g Antenna m dB 25.56 31.87 36.39 40.57 Test channel	Cable dB 5.32 11.52 13.71 15.14 Cable dB 5.08 11.57 13.68 16.68	Preamp dB 36.42 35.28 34.03 36.42 CH11 Preamp dB 36.66 35.24 33.98 36.76 CH11	dBuV/ 30.15 38.04 47.13 50.10 Leve dBuV/ 29.66 38.60 46.23 49.95	21 Limit Ov 74.00 -43 74.00 -26 74.00 -23 Polarity 21 Limit Ov 74.00 -23 Polarity 21 Limit Ov 74.00 -24 Polarity 21 Limit Ov 74.00 -24 Polarity	er Remark mit .85 Peak .96 Peak .87 Peak .90 Peak Horizontal er Remark mit .34 Peak .40 Peak .77 Peak .05 Peak	
Туре	1 2 3 4 Mark 1 2 3 4 Mark	Frequency MHz 1270.33 4809.50 7227.39 9834.41 802.11b Frequency MHz 1188.98 4996.69 7172.41 10888.51 802.11b Frequency MHz	dBuV/ 35.31 30.40 31.00 31.85 Readin dBuV/ 35.68 30.40 30.14 29.46 Readin dBuV/	ng Antenna dB 25.94 31.40 36.45 39.53 Test channel g Antenna m dB 25.56 31.87 36.39 40.57 Test channel	Cable dB 5.32 11.52 13.71 15.14 Cable dB 5.08 11.57 13.68 16.68 Cable dB	e Preamp dB 36.42 35.28 34.03 36.42 CH11 Preamp dB 36.66 35.24 33.98 36.76 CH11 e Preamp dB	dBuV/ 30.15 38.04 47.13 50.10 Leve dBuV/ 29.66 38.60 46.23 49.95 Leve dBuV/	21 Limit Ov 74.00 -43 74.00 -26 74.00 -23 Polarity 21 Limit Ov 74.00 -23 Polarity 21 Limit Ov 74.00 -24 74.00 -24 Polarity 21 Limit Ov 74.00 -24 Polarity 21 Limit Ov 74.00 -24 Polarity	er Remark mit .85 Peak .96 Peak .90 Peak .90 Peak Horizontal .90 Peak .94 Peak .40 Peak .40 Peak .40 Peak .40 Peak .40 Peak .40 Peak .40 Peak .40 Peak .40 Peak	
Туре	1 2 3 4 Mark 1 2 3 4 Mark 1	Frequency MHz 1270.33 4809.50 7227.39 9834.41 802.11b Frequency MHz 1188.98 4996.69 7172.41 10888.51 802.11b Frequency MHz 1173.94	dBuV/ 35.31 30.40 31.00 31.85 Readin dBuV/ 35.68 30.40 30.14 29.46 Readin dBuV/ 35.49	ng Antenna dB 25.94 31.40 36.45 39.53 Test channel g Antenna m dB 25.56 31.87 36.39 40.57 Test channel ng Antenna m dB	Cable dB 5.32 11.52 13.71 15.14 Cable dB 5.08 11.57 13.68 16.68 Cable dB 5.06	Preamp dB 36.42 35.28 34.03 36.42 CH11 Preamp dB 36.66 35.24 33.98 36.76 CH11 Preamp dB 36.69	dBuV/ 30.15 38.04 47.13 50.10 Leve dBuV/ 29.66 38.60 46.23 49.95 Leve dBuV/ 29.36	el Limit Ov 'm dBuV/m li 74.00 -43 74.00 -26 74.00 -23 Polarity el Limit Ov 'm dBuV/m li 74.00 -24 Polarity el Limit Ov 'm dBuV/m li 74.00 -24 Polarity el Limit Ov 'm dBuV/m li 74.00 -24 Polarity	er Remark mit .85 Peak .96 Peak .90 Peak .90 Peak Horizontal .94 Peak .40 Peak .40 Peak .77 Peak .05 Peak .05 Peak .05 Peak	

Туре		802.11g		Test channel	С	H01		Polarity	Horizontal
	Mark	Frequency MHz	Readin dBuV/		Cable dB	Preamp dB	Leve dBuV/		
	1	1104.37	36.35	25.40	4.98	36.88	29.85	74.00 -44.	15 Peak
	2	4299.89	31.34	30.30	10.75	36.09	36.30	74.00 -37.	70 Peak
	3	7643.68	29.99	36.31	14.70	33.17	47.83	74.00 -26.	17 Peak
	4	11515.68	29.36	40.85	16.71	36.37	50.55	74.00 -23.	45 Peak
Туре		802.11g		Test channel	С	H01		Polarity	Vertical
	Mark	Frequency MHz	Readir dBuV/		Cable dB	Preamp dB	Leve dBuV/		er Remark mit
	1	1286.61	34.30	25.97	5.38	36.35	29.30	74.00 -44	.70 Peak
	2	4256.33	32.07	30.21	10.52	36.11	36.69	74.00 -37	.31 Peak
	3	7172.41	30.29	36.39	13.68	33.98	46.38	74.00 -27	.62 Peak
	4	10888.51	29.81	40.57	16.68	36.76	50.30	74.00 -23	.70 Peak
Туре		802.11g		Test channel	С	H06		Polarity	Horizontal
	Mark	Frequency MHz	Readin dBuV/		Cable dB	Preamp dB	Leve dBuV/		er Remark mit
	1	1225.86	35.38	25.76	5.18	36.60	29.72	74.00 -44	.28 Peak
	2	3834.51	33.69	29.74	9.88	36.93	36.38	74.00 -37	.62 Peak
	3	7227.39	29.68	36.45	13.71	34.03	45.81	74.00 -28	.19 Peak
	4	10944.09	29.85	40.60	16.72	36.72	50.45	74.00 -23	.55 Peak
Туре		802.11g		Test channel	C	H06		Polarity	Vertical
	Mark	Frequency	Readin		Cable	Preamp	Leve		
	1	MHz	dBuV/		dB 5.49	dB	dBuV/		
	1	1353.80 3933.37	33.97 31.87	26.28 29.87	10.03	36.43 36.57	29.31 35.20	74.00 -44. 74.00 -38.	
	3	7489.60	30.51	36.60	14.15	33.94	47.32	74.00 - 26.	
	4	10750.81	30.62	40.20	16.60	36.88	50.54		46 Peak
Туре		802.11g		Test channel	С	H11		Polarity	Horizontal
	Mark	Frequency	Readir	ng Antenna	Cable	Preamp	Leve	el Limit Ov	er Remark
					dB	dB	dBuV/		mit
		MHz	dBuV/	II UD	u D				
	1	MHz 1165.01	dBuV/ 36.34	25.46	5.05	36.72	30.13	74.00 -43	.87 Peak
	1 2		-					74.00 -43 74.00 -33	
		1165.01	36.34	25.46	5.05	36.72	30.13		.80 Peak
	2	1165.01 4983.99	36.34 32.09	25.46 31.77	5.05 11.56	36.72 35.22	30.13 40.20	74.00 -33	.80 Peak .40 Peak
Туре	2 3	1165.01 4983.99 7009.96	36.34 32.09 31.27	25.46 31.77 35.46	5.05 11.56 13.91 16.65	36.72 35.22 34.04	30.13 40.20 46.60	74.00 -33 74.00 -27	.80 Peak .40 Peak
Туре	2 3 4	1165.01 4983.99 7009.96 10833.22	36.34 32.09 31.27 29.66	25.46 31.77 35.46 40.40 Test channel	5.05 11.56 13.91 16.65 C	36.72 35.22 34.04 36.81 H11	30.13 40.20 46.60 49.90	74.00 -33 74.00 -27 74.00 -24 Polarity	.80 Peak .40 Peak .10 Peak Vertical
Туре	2 3	1165.01 4983.99 7009.96 10833.22	36.34 32.09 31.27 29.66 Readin	25.46 31.77 35.46 40.40 Test channel	5.05 11.56 13.91 16.65 Cable	36.72 35.22 34.04 36.81 H11 Preamp	30.13 40.20 46.60 49.90	74.00 -33 74.00 -27 74.00 -24 Polarity	.80 Peak .40 Peak .10 Peak Vertical er Remark
Туре	2 3 4	1165.01 4983.99 7009.96 10833.22 802.11g Frequency MHz	36.34 32.09 31.27 29.66	25.46 31.77 35.46 40.40 Test channel	5.05 11.56 13.91 16.65 Cable dB	36.72 35.22 34.04 36.81 H11 Preamp dB	30.13 40.20 46.60 49.90	74.00 -33 74.00 -27 74.00 -24 Polarity el Limit Ov /m dBuV/m li	.80 Peak .40 Peak .10 Peak Vertical er Remark mit
Туре	2 3 4 	1165.01 4983.99 7009.96 10833.22 802.11g Frequency MHz 1263.88	36.34 32.09 31.27 29.66 Readin	25.46 31.77 35.46 40.40 Test channel g Antenna m dB 25.93	5.05 11.56 13.91 16.65 Cable	36.72 35.22 34.04 36.81 H11 Preamp dB 36.44	30.13 40.20 46.60 49.90 Leve dBuV/ 29.68	74.00 -33 74.00 -27 74.00 -24 Polarity el Limit Ov /m dBuV/m li 74.00 -44	.80 Peak .40 Peak .10 Peak Vertical er Remark mit .32 Peak
Туре	2 3 4 Mark	1165.01 4983.99 7009.96 10833.22 802.11g Frequency MHz 1263.88 4871.10	36.34 32.09 31.27 29.66 Readin dBuV/	25.46 31.77 35.46 40.40 Test channel	5.05 11.56 13.91 16.65 Cable dB	36.72 35.22 34.04 36.81 H11 Preamp dB 36.44 35.16	30.13 40.20 46.60 49.90 Leve dBuV/ 29.68 38.92	74.00 -33 74.00 -27 74.00 -24 Polarity el Limit Ov (m dBuV/m li 74.00 -44 74.00 -35	.80 Peak .40 Peak .10 Peak Vertical er Remark mit .32 Peak .08 Peak
Туре	2 3 4 	1165.01 4983.99 7009.96 10833.22 802.11g Frequency MHz 1263.88	36.34 32.09 31.27 29.66 Readin dBuV/ 34.89	25.46 31.77 35.46 40.40 Test channel g Antenna m dB 25.93	5.05 11.56 13.91 16.65 Cable dB 5.30	36.72 35.22 34.04 36.81 H11 Preamp dB 36.44	30.13 40.20 46.60 49.90 Leve dBuV/ 29.68	74.00 -33 74.00 -27 74.00 -24 Polarity el Limit Ov (m dBuV/m li 74.00 -44 74.00 -35 74.00 -27	.80 Peak .40 Peak .10 Peak Vertical er Remark mit .32 Peak

Туре		802.11n(H	T20)	Test channel	С	H01		Polarity		Horizontal	
	Mark	Frequency MHz	Readi dBuV		Cable dB	Preamp dB	Leve dBuV/		Over limi		
	1	1173.94	36.16	25.50	5.06	36.69	30.03	74.00 -	43.9	7 Peak	
	2	4433.26	30.79		10.65	36.16	36.01		37.9		
	3	7245.81	30.24		13.69	34.06	46.28			2 Peak	
	4	10888.51	30.15	40.57	16.68	36.76	50.64	74.00 -	23.3	6 Peak	
Туре		802.11n(H	T20)	Test channel	C	H01		Polarity		Vertical	
	Marala		Deeda	· · · · · · · · · · · · · · · · · · ·			Leve	el Limit		- Domeniu	
	Mark	Frequency MHz	Readir dBuV/		Cable dB	Preamp dB	dBuV/		Over limi		
	1	1073.88	36.07	25.30	4.94	36.94	29.37		-44.6		
	2	4933.50	31.69	31.47	11.52	35.20	39.48			52 Peak	
	3	7319.96	30.97	36.44	13.77	34.10	47.08			92 Peak	
	4	10944.09	29.36	40.60	16.72	36.72	49.96			04 Peak	
Туре		802.11n(H	T20)	Test channel	C	H06		Polarity		Horizontal	
	Mark	Frequency	Readin	g Antenna	Cable	Preamp	Leve	l Limit (Over	Remark	
	FIGT N	MHz	dBuV/		dB	dB	dBuV/		limi		
	1	1188.98	35.39	25.56	5.08	36.66	29.37			3 Peak	
	2	3993,90	32.25		10.17	36.37	35.95			5 Peak	
	3	7527.83	31.08		14.27	33.72	48.17			3 Peak	
	4	11428.08	29.34		16.72	36.41	50.33			7 Peak	
Туре		802.11n(H	T20)	Test channel	C	H06		Polarity		Vertical	
	Mark	Frequency	Readi	ng Antenna	Cable	Preamp	Leve	el Limit	Over	Remark	
		MHz	dBuV	/m dB	dB	dB	dBuV/	/m dBuV/m	limi	t	
1	1	MHz 1251.08	dBuV 35.19	/m dB 25.90	dB 5.26	dB 36.50	dBuV/ 29.85	/m dBuV/m 74.00 -	limi 44.1	.t .5 Peak	
	2	MHz 1251.08 3690.85	dBuV 35.19 34.18	/m dB 25.90 29.40	dB 5.26 9.82	dB 36.50 37.04	dBuV/ 29.85 36.36	/m dBuV/m 74.00 - 74.00 -	limi 44.1 37.6	t 5 Peak 4 Peak	
	2 3	MHz 1251.08 3690.85 7117.84	dBuV 35.19 34.18 30.44	/m dB 25.90 29.40 36.17	dB 5.26 9.82 13.55	dB 36.50 37.04 33.93	dBuV, 29.85 36.36 46.23	/m dBuV/m 74.00 - 74.00 - 74.00 -	limi 44.1 37.6 27.7	t 5 Peak 4 Peak 7 Peak	
	2	MHz 1251.08 3690.85	dBuV 35.19 34.18	/m dB 25.90 29.40 36.17	dB 5.26 9.82	dB 36.50 37.04	dBuV/ 29.85 36.36	/m dBuV/m 74.00 - 74.00 - 74.00 -	limi 44.1 37.6 27.7	t 5 Peak 4 Peak	
Туре	2 3	MHz 1251.08 3690.85 7117.84	dBuV 35.19 34.18 30.44 29.33	/m dB 25.90 29.40 36.17	dB 5.26 9.82 13.55 16.70	dB 36.50 37.04 33.93	dBuV, 29.85 36.36 46.23	/m dBuV/m 74.00 - 74.00 - 74.00 -	limi 44.1 37.6 27.7 24.1	t 5 Peak 4 Peak 7 Peak	
Туре	2 3 4	MHz 1251.08 3690.85 7117.84 10916.26 802.11n(H	dBuV 35.19 34.18 30.44 29.33 T20)	/m dB 25.90 29.40 36.17 40.60 Test channel	dB 5.26 9.82 13.55 16.70 C	dB 36.50 37.04 33.93 36.74 H11	dBuV, 29.85 36.36 46.23 49.89	/m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - Polarity	limi 44.1 37.6 27.7 24.1	t 5 Peak 4 Peak 7 Peak 1 Peak Horizontal	
Туре	2 3	MHz 1251.08 3690.85 7117.84 10916.26 802.11n(H	dBuV 35.19 34.18 30.44 29.33 T20) Readir	/m dB 25.90 29.40 36.17 40.60 Test channel	dB 5.26 9.82 13.55 16.70 C Cable	dB 36.50 37.04 33.93 36.74 H11 Preamp	dBuV, 29.85 36.36 46.23 49.89 Leve	/m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - Polarity 21 Limit	limi 44.1 37.6 27.7 24.1	t 5 Peak 4 Peak 7 Peak 1 Peak Horizontal Remark	
Туре	2 3 4 Mark	MHz 1251.08 3690.85 7117.84 10916.26 802.11n(H Frequency MHz	dBuV 35.19 34.18 30.44 29.33 T20) Readir dBuV/	/m dB 25.90 29.40 36.17 40.60 Test channel	dB 5.26 9.82 13.55 16.70 C Cable dB	dB 36.50 37.04 33.93 36.74 H11 Preamp dB	dBuV, 29.85 36.36 46.23 49.89 Leve dBuV/	/m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - Polarity Polarity 1 Limit m dBuV/m	limi 44.1 37.6 27.7 24.1 Over limi	t 5 Peak 4 Peak 7 Peak 1 Peak Horizontal Remark	
Туре	2 3 4	MHz 1251.08 3690.85 7117.84 10916.26 802.11n(H Frequency MHz 1138.63	dBuV 35.19 34.18 30.44 29.33 T20) Readir dBuV/ 35.93	/m dB 25.90 29.40 36.17 40.60 Test channel mg Antenna /m dB 25.40	dB 5.26 9.82 13.55 16.70 C Cable dB 5.02	dB 36.50 37.04 33.93 36.74 H11 Preamp dB 36.81	dBuV, 29.85 36.36 46.23 49.89 Leve dBuV/ 29.54	<pre>/m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - Polarity Plaint m dBuV/m 74.00 -</pre>	limi 44.1 37.6 27.7 24.1 0ver limi 44.4	t 5 Peak 4 Peak 7 Peak 1 Peak Horizontal Remark t 6 Peak	
Туре	2 3 4 Mark 1 2	MHz 1251.08 3690.85 7117.84 10916.26 802.11n(H Frequency MHz 1138.63 3653.46	dBuV 35.19 34.18 30.44 29.33 T20) Readir dBuV/ 35.93 34.21	/m dB 25.90 29.40 36.17 40.60 Test channel mg Antenna /m dB 25.40 29.40	dB 5.26 9.82 13.55 16.70 Cable dB 5.02 9.93	dB 36.50 37.04 33.93 36.74 H11 Preamp dB 36.81 37.02	dBuV, 29.85 36.36 46.23 49.89 Leve dBuV/ 29.54 36.52	<pre>/m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - Polarity Plainit m dBuV/m 74.00 - 74.00</pre>	limi 44.1 37.6 27.7 24.1 0ver limi 44.4 37.4	t 5 Peak 4 Peak 7 Peak 1 Peak Horizontal Kemark t 6 Peak 8 Peak	
Туре	2 3 4	MHz 1251.08 3690.85 7117.84 10916.26 802.11n(H Frequency MHz 1138.63 3653.46 7451.57	dBuV 35.19 34.18 30.44 29.33 T20) Readir dBuV/ 35.93 34.21 30.88	/m dB 25.90 29.40 36.17 40.60 Test channel mg Antenna /m dB 25.40 29.40 36.60	dB 5.26 9.82 13.55 16.70 C Cable dB 5.02 9.93 14.25	dB 36.50 37.04 33.93 36.74 H11 Preamp dB 36.81 37.02 33.97	dBuV, 29.85 36.36 46.23 49.89 Leve dBuV/ 29.54 36.52 47.76	<pre>/m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - Polarity 1 Limit 1 dBuV/m 74.00 - 74.00</pre>	limi 44.1 37.6 27.7 24.1 0ver limi 44.4 37.4 26.2	t 5 Peak 4 Peak 7 Peak 1 Peak Horizontal Remark t 6 Peak 8 Peak 4 Peak	
Туре	2 3 4 Mark 1 2	MHz 1251.08 3690.85 7117.84 10916.26 802.11n(H Frequency MHz 1138.63 3653.46	dBuV 35.19 34.18 30.44 29.33 T20) Readir dBuV/ 35.93 34.21 30.88 29.93	/m dB 25.90 29.40 36.17 40.60 Test channel mg Antenna /m dB 25.40 29.40	dB 5.26 9.82 13.55 16.70 Cable dB 5.02 9.93 14.25 16.72	dB 36.50 37.04 33.93 36.74 H11 Preamp dB 36.81 37.02	dBuV, 29.85 36.36 46.23 49.89 Leve dBuV/ 29.54 36.52	<pre>/m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - 74.00 - Polarity 1 Limit 1 dBuV/m 74.00 - 74.00</pre>	limi 37.6 27.7 24.1 0ver limi 44.4 37.4 26.2 23.1	t 5 Peak 4 Peak 7 Peak 1 Peak Horizontal Kemark t 6 Peak 8 Peak	
	2 3 4 Mark 1 2	MHz 1251.08 3690.85 7117.84 10916.26 802.11n(H Frequency MHz 1138.63 3653.46 7451.57 11399.03	dBuV 35.19 34.18 30.44 29.33 T20) Readir dBuV/ 35.93 34.21 30.88 29.93 T20)	/m dB 25.90 29.40 36.17 40.60 Test channel m dB 25.40 29.40 36.60 40.60 Test channel	dB 5.26 9.82 13.55 16.70 Cable dB 5.02 9.93 14.25 16.72	dB 36.50 37.04 33.93 36.74 H11 Preamp dB 36.81 37.02 33.97 36.43	dBuV, 29.85 36.36 46.23 49.89 Leve dBuV/ 29.54 36.52 47.76	<pre>/m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - Polarity Plainit m dBuV/m 74.00 - 74.00</pre>	limi 37.6 27.7 24.1 0ver limi 44.4 37.4 26.2 23.1	t 5 Peak 4 Peak 7 Peak 1 Peak Horizontal 6 Remark t 6 Peak 8 Peak 4 Peak 8 Peak	
	2 3 4 Mark 1 2	MHz 1251.08 3690.85 7117.84 10916.26 802.11n(H Frequency MHz 1138.63 3653.46 7451.57 11399.03	dBuV 35.19 34.18 30.44 29.33 T20) Readir dBuV/ 35.93 34.21 30.88 29.93	/m dB 25.90 29.40 36.17 40.60 Test channel m dB 25.40 29.40 36.60 40.60 Test channel	dB 5.26 9.82 13.55 16.70 Cable dB 5.02 9.93 14.25 16.72 Cable Cable	dB 36.50 37.04 33.93 36.74 H11 Preamp dB 36.81 37.02 33.97 36.43	dBuV, 29.85 36.36 46.23 49.89 Leve dBuV/ 29.54 36.52 47.76 50.82 Leve	<pre>/m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - Polarity Polarity 1 Limit m dBuV/m 74.00 - 74</pre>	limi 44.1 37.6 27.7 24.1 0ver limi 44.4 37.4 26.2 23.1	t 5 Peak 4 Peak 7 Peak 1 Peak Horizontal 6 Remark t 6 Peak 8 Peak 8 Peak 8 Peak 8 Peak 8 Peak	
	2 3 4 Mark 1 2 3 4	MHz 1251.08 3690.85 7117.84 10916.26 802.11n(H Frequency MHz 1138.63 3653.46 7451.57 11399.03 802.11n(H Frequency MHz	dBuV 35.19 34.18 30.44 29.33 T20) Readir dBuV/ 35.93 34.21 30.88 29.93 T20) Readir dBuV/	/m dB 25.90 29.40 36.17 40.60 Test channel mg Antenna m dB 25.40 29.40 36.60 40.60 Test channel ng Antenna m dB	dB 5.26 9.82 13.55 16.70 Cable dB 5.02 9.93 14.25 16.72 C	dB 36.50 37.04 33.93 36.74 H11 Preamp dB 36.81 37.02 33.97 36.43 H11	dBuV, 29.85 36.36 46.23 49.89 Leve dBuV/ 29.54 36.52 47.76 50.82	<pre>/m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - Polarity Polarity 1 Limit m dBuV/m 74.00 - 74</pre>	limi 44.1 37.6 27.7 24.1 0ver limi 44.4 37.4 26.2 23.1	t 5 Peak 4 Peak 7 Peak 1 Peak Horizontal 6 Remark t 6 Peak 8 Peak 8 Peak 8 Peak 8 Peak 8 Peak	
	2 3 4 Mark 1 2 3 4 Mark 1	MHz 1251.08 3690.85 7117.84 10916.26 802.11n(H Frequency MHz 1138.63 3653.46 7451.57 11399.03 802.11n(H Frequency MHz 1118.52	dBuV 35.19 34.18 30.44 29.33 T20) Readir dBuV, 35.93 34.21 30.88 29.93 T20) Readir dBuV, 35.91	/m dB 25.90 29.40 36.17 40.60 Test channel mg Antenna m dB 25.40 29.40 36.60 40.60 Test channel ng Antenna m dB 25.40	dB 5.26 9.82 13.55 16.70 Cable dB 5.02 9.93 14.25 16.72 Cable dB 4.99	dB 36.50 37.04 33.93 36.74 H11 Preamp dB 36.81 37.02 33.97 36.43 H11 Preamp dB 36.85	dBuV, 29.85 36.36 46.23 49.89 Leve dBuV/ 29.54 36.52 47.76 50.82 Leve dBuV/ 29.45	<pre>/m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - Polarity Polarity 1 Limit m dBuV/m 74.00 - 74</pre>	limi 44.1 37.6 27.7 24.1 0ver limi 44.4 37.4 26.2 23.1 0ver limi 44.5	t 5 Peak 4 Peak 7 Peak 1 Peak Horizontal 6 Peak 8 Peak 8 Peak 8 Peak 8 Peak 8 Peak 8 Peak 8 Peak 8 Peak	
	2 3 4 Mark 1 2 3 4 Mark 1 2	MHz 1251.08 3690.85 7117.84 10916.26 802.11n(H Frequency MHz 1138.63 3653.46 7451.57 11399.03 802.11n(H Frequency MHz 1118.52 3644.18	dBuV 35.19 34.18 30.44 29.33 T20) Readir dBuV, 35.93 34.21 30.88 29.93 T20) Readir dBuV, 35.91 34.16	/m dB 25.90 29.40 36.17 40.60 Test channel mg Antenna m dB 25.40 29.40 36.60 40.60 Test channel ng Antenna m dB 25.40 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 36.20 29.40 29.40 36.20 29.40 29.40 29.40 36.60 40.60 Test channel 29.40 36.60 40.50 29.40 36.60 40.60 Test channel 29.40 36.60 40.50 Test channel 29.40 36.60 40.50 Test channel 29.40 36.60 40.50 Test channel 29.40 36.60 40.50 Test channel 25.40 29.40 36.60 40.50 Test channel 25.40 29.40 36.60 40.50 Test channel 25.40 29.40 29.40 36.60 40.50 Test channel 25.40 29.40	dB 5.26 9.82 13.55 16.70 Cable dB 5.02 9.93 14.25 16.72 Cable dB 4.99 9.96	dB 36.50 37.04 33.93 36.74 H11 Preamp dB 36.81 37.02 33.97 36.43 H11 Preamp dB 36.85 37.01	dBuV, 29.85 36.36 46.23 49.89 Leve dBuV/ 29.54 36.52 47.76 50.82 Leve dBuV/ 29.45 36.51	<pre>/m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - Polarity</pre>	limi 44.1 37.6 27.7 24.1 0ver limi 44.4 26.2 23.1 0ver limi 1 44.5 37.4 37.4	t 5 Peak 4 Peak 7 Peak 1 Peak Horizontal Remark t 6 Peak 8 Peak 9 Peak	
	2 3 4 Mark 1 2 3 4 Mark 1	MHz 1251.08 3690.85 7117.84 10916.26 802.11n(H Frequency MHz 1138.63 3653.46 7451.57 11399.03 802.11n(H Frequency MHz 1118.52	dBuV 35.19 34.18 30.44 29.33 T20) Readir dBuV, 35.93 34.21 30.88 29.93 T20) Readir dBuV, 35.91	/m dB 25.90 29.40 36.17 40.60 Test channel mg Antenna m dB 25.40 29.40 36.60 40.60 Test channel ng Antenna m dB 25.40 29.40 36.32	dB 5.26 9.82 13.55 16.70 Cable dB 5.02 9.93 14.25 16.72 Cable dB 4.99	dB 36.50 37.04 33.93 36.74 H11 Preamp dB 36.81 37.02 33.97 36.43 H11 Preamp dB 36.85	dBuV, 29.85 36.36 46.23 49.89 Leve dBuV/ 29.54 36.52 47.76 50.82 Leve dBuV/ 29.45	<pre>/m dBuV/m 74.00 - 74.00 - 74.00 - 74.00 - Polarity 1 Limit m dBuV/m 74.00 - 74.00</pre>	limi 44.1 37.6 27.7 24.1 0ver limi 44.4 37.4 26.2 23.1 0ver limi 44.5 37.4 27.8	t 5 Peak 4 Peak 7 Peak 1 Peak Horizontal 6 Peak 8 Peak 8 Peak 8 Peak 8 Peak 8 Peak 8 Peak 8 Peak 8 Peak	

6. TEST SETUP PHOTOS

Radiated Emission



AC Conducted Emission



7. EXTERANAL AND INTERNAL PHOTOS

Reference to the test report No. : CHTEW21080008

8. APPENDIX REPORT