

FCC TEST REPORT

Test report
On Behalf of
Streamax Technology Co.,Ltd.
For
Al-AVM Panoramic Assistance System

Model No.: AVM

FCC ID: 2AM6L-AVM

Prepared For: Streamax Technology Co.,Ltd.

21-23/F, Building B1, Zhiyuan, No. 1001, xueyuan Avenue, Nanshan District,

Shenzhen, Guangdong, 518055 China

Prepared By: Shenzhen HUAK Testing Technology Co., Ltd.

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Date of Test: Jun. 28, 2023 ~ Jul. 13, 2023

Date of Report: Jul. 13, 2023

Report Number: HK2306282723-E



TEST RESULT CERTIFICATION

Applicant's name: Streamax Technology Co.,Ltd.

Address 21-23/F, Building B1, Zhiyuan, No. 1001, xueyuan Avenue, Nanshan

District, Shenzhen, Guangdong, 518055 China

Manufacture's Name.....: Streamax Technology Co.,Ltd.

Address 21-23/F, Building B1, Zhiyuan, No. 1001, xueyuan Avenue, Nanshan

District, Shenzhen, Guangdong, 518055 China

Product description

Trade Mark: N/A

Product name Al-AVM Panoramic Assistance System

Model and/or type reference : AVM

Standards FCC Rules and Regulations Part 15 Subpart C Section 15.247

ANSI C63.10: 2013

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Date of Test:

Date (s) of performance of tests...... Jun. 28, 2023 ~ Jul. 13, 2023

Date of Issue Jul. 13, 2023

Test Result : Pass

Testing Engineer ::

(Gary Qian)

Technical Manager

(Eden Hu)

Authorized Signatory:

(Jason Zhou)



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** Modified History **

Revision	Description	Issued Data	Remark
Revision 1.0	Initial Test Report Release	Jul. 13, 2023	Jason Zhou
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1. TEST RESULT SUMMARY

1.1. TEST PROCEDURES AND RESULTS

Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247(b)(4)	PASS
AC Power Line Conducted Emission	§15.207	N/A TO THE
Conducted Peak Output Power	§15.247(b)(3)	PASS
6dB Emission Bandwidth	§15.247(a)(2)	PASS
Power Spectral Density	§15.247(e)	PASS
Band Edge	§15.247(d)	PASS
Spurious Emission	§15.205/§15.209	PASS

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.

1.2. INFORMATION OF THE TEST LABORATORY

Shenzhen HUAK Testing Technology Co., Ltd. Add.: 1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China

Testing Laboratory Authorization:

A2LA Accreditation Code is 4781.01. FCC Designation Number is CN1229. Canada IC CAB identifier is CN0045. CNAS Registration Number is L9589.

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1.3. MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

No.	Item	MU
1	Conducted Emission	±2.71dB
2	RF power, conducted	±0.37dB
3	Spurious emissions, conducted	±0.11dB
4	All emissions, radiated(<1G)	±3.90dB
5	All emissions, radiated(>1G)	±4.28dB
6	Temperature	±0.1°C
7	Humidity	±1.0%

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2. EUT DESCRIPTION

2.1. GENERAL DESCRIPTION OF EUT

Equipment:	AI-AVM Panoramic Assistance Syste	em restrict
Model Name:	AVM	0
Series Model:	N/A	ESTING
Model Difference:	N/A	Man.
FCC ID:	2AM6L-AVM	THE STIME
Antenna Type:	External Antenna	MUNKTES! MUNKTE
Antenna Gain:	5dBi	
Operation frequency:	802.11b/g/n 20:2412~2462 MHz 802.11n 40: 2422~2452MHz	WAKTESTING HUAKTESTIN
Number of Channels:	802.11b/g/n20: 11CH 802.11n 40: 7CH	ESTING
Modulation Type:	CCK/OFDM/DBPSK/DAPSK	
Power Source:	DC 9-36V 3A	9
Power Rating:	DC 9-36V 3A	V TESTING LAY TESTING
Hardware Version	V2.0	Mary Our
Software Version	V2.0	Van. Dian

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2.2. Carrier Frequency of Channels

	Ch	annel List	For 802.11I	o/802.11g/8	02.11n (HT2	0)	
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
01	2412	04	2427	07	2442	10	2457
02	2417	05	2432	08	2447	11	2462
03	2422	06	2437	09	2452	STING	

Channel List For 802.11n (HT40)								
Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)	
TING	X TESTING	04	2427	07	2442	- TESTIN	NTE	
@ H		05	2432	08	2447	HILDRY	Mon.	
03	2422	06	2437	09	2452	<u></u>		

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see helow:

2.3. OPERATION OF EUT DURING TESTING

Operating Mode

The mode is used: Transmitting mode for 802.11b/802.11g/802.11n (HT20)

Low Channel: 2412MHz Middle Channel: 2437MHz High Channel: 2462MHz

The mode is used: Transmitting mode for 802.11n (HT40)

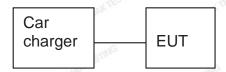
Low Channel: 2422MHz Middle Channel: 2437MHz High Channel: 2452MHz

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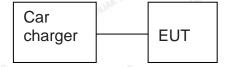


2.4. DESCRIPTION OF TEST SETUP

Operation of EUT during conducted and under 1GHz radiation testing:



Operation of EUT Above1GHz Radiation testing:



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3. ENERA INFORMATION

3.1. TEST ENVIRONMENT AND MODE

Operating Environment:	
Temperature:	25.0 °C
Humidity:	56 % RH
Atmospheric Pressure:	1010 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel and modulations (The value of duty cycle is 98.46%)

The sample was placed (0.8m below 1GHz, 1.5m above 1GHz) above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages. For the full battery state and The output power to the maximum state.

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in transmitting operation, which was shown in this test report and defined as follows:

Per-scan all kind of data rate in lowest channel, and found the follow list which it was worst case.

STING	Mode	Data rate	18
	802.11b	1Mbps	HUAK
33	802.11g	6Mbps	
	802.11n(H20)	6.5Mbps	STING
€ H	802.11n(H40)	13.5Mbps	HUAKTE

Final Test Mode:

Operation mode:	Keep the EUT in continuous transmitting
Operation mode.	with modulation

- 1. For WIFI function, the engineering test program was provided and enabled to make EUT continuous transmit/receive.
- 2.According to ANSI C63.10 standards, the test results are both the "worst case" and "worst setup" 1Mbps for 802.11b, 6Mbps for 802.11g, 6.5Mbps for 802.11n(H20), 13.5Mbps for 802.11(H40). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.



3.2. DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/ / / / / / / / / / / / / / / / / / /	IS / HURN-TESTIN	I STING	/ HUAK TESTIN	/ STATE

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 6dB Emission Bandwidth, Power Spectral Density, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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4. TEST RESULTS AND MEASUREMENT DATA

4.1. CONDUCTED EMISSION

Test Specification

	-711/15	-71013	-1100	717
Test Requirement:	FCC Part15 C Secti	on 15.207	AKTE	HUAKTES
Test Method:	ANSI C63.10:2013		TING	
Frequency Range:	150 kHz to 30 MHz	HUARTE	. 242	ESTING
Receiver setup:	RBW=9 kHz, VBW=	:30 kHz, Sweep	time=auto	
Limits:	Frequency range (MHz) 0.15-0.5 0.5-5 5-30	Limit (d Quasi-peak 66 to 56* 56 60	Average 56 to 46* 46 50	AKTESTING
	Refe	rence Plane	NKTESTRUS	NYTESTI
Test Setup:	Test table/Insulation particles to the control of t	elane EMI Receiver	ter — AC power	,7TNG
Test Mode:	transmitting with mo	dulation	AK TESTING	-0.
	1 The FILT is con	ACCOUNT OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF THE PERSON AND ADDRESS OF THE PERSON ADDRESS OF THE PERSON ADDRESS OF T		
Test Procedure:	line impedance so provides a 50 ohr measuring equipmost. The peripheral de power through a coupling impedance refer to the blood photographs). 3. Both sides of A. conducted interfer emission, the relating the interface cab ANSI C63.10: 207	m/50uH coupling nent. vices are also co LISN that province with 50ohm ck diagram of .C. line are che rence. In order stive positions of oles must be ch	work (L.I.S.N. primpedance onnected to the ides a 500hm termination. (the test set to find the material anged according to the test set to find the material anged according to the test set to find the material anged according to the test set to find the material anged according to the test set to find the material anged according to the test set to). This for the ne main n/50uH Please up and aximum aximum ad all of ding to

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Test Instruments

Conducted Emission Shielding Room Test Site (843)						
Equipment Manufacturer Model Serial Number Calibration Date Calibrat						
Receiver	R&S	ESR-7	HKE-010	Feb. 17, 2023	Feb. 16, 2024	
LISN	R&S	ENV216	HKE-002	Feb. 17, 2023	Feb. 16, 2024	
Coax cable (9KHz-30MHz)	Times	381806-002	N/A	Feb. 17, 2023	Feb. 16, 2024	
Conducted test software	Tonscend	TS+ Rev 2.5.0.0	HKE-081	N/A	N/A	

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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4.2. TEST RESULT

Not applicable

Note: Since EUT is only for on-car use, so this test item not applicable.

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4.3. MAXIMUM CONDUCTED OUTPUT POWER

Test Specification

Test Requirement:	FCC Part15 C Section 15.247	(b)(3)	4 TESTIN
Test Method:	KDB 558074	MONTH HOME	(C) HUAN
Limit:	30dBm	AKTESTING	-Dia
Test Setup:	Power meter	EUT	THIS HUAKTESTING
Test Mode:	Transmitting mode with modu	lation	
Test Procedure:	1. The testing follows the Mea FCC KDB 558074 D01 15 v05r02. 2. The RF output of EUT was meter by RF cable and attocompensated to the results. 3. Set to the maximum power EUT transmit continuously. 4. Measure the Peak output poin the test report.	connected to connected to enuator. The s for each m setting and	Guidance o the power e path loss was easurement. enable the
Test Result:	PASS	O HUM	0,00

Test Instruments

Allah XV. Allah	FI.	F 44.	ATTAL YOU	AUD. VV	Allah, Kir	
RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	Feb. 16, 2024	
Power meter	Agilent	E4419B	HKE-085	Feb. 17, 2023	Feb. 16, 2024	
Power Sensor	Agilent	E9300A	HKE-086	Feb. 17, 2023	Feb. 16, 2024	
RF cable	Times	1-40G	HKE-034	Feb. 17, 2023	Feb. 16, 2024	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	Feb. 16, 2024	

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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Test Data

Test Channel	Frequency	Reading Conducted Output Power	Cable loss	Maximum Peak Conducted Output Power	Limit
	(MHz)	dBm		dBm	dBm
MUP HUP	IK 72	TX 802	2.11b Mode	9	HUAKTE
CH01	2412	13	0.8	13.80	30
CH06	2437	12.73	0.8	13.53	51 ¹¹⁶ 30 115 ¹¹
CH11	2462	12.38	0.8	13.18	30
		TX 802	2.11g Mode		
CH01	2412	14.23	0.8	15.03	30
CH06	2437	13.94	0.8	14.74	30
CH11	2462	13.91	0.8	14.71	30
HUP HUP	KTESTI	TX 802.	.11n20 Mode	(a)	HUAK TESTIN
CH01	2412	14.41	0.8	15.21	30
CH06	2437	14.02	0.8	14.82	STIME 30 NOTESTI
CH11	2462	13.94	0.8	14.74	30
		TX 802.	.11n40 Mode		
CH03	2422	14.29	0.8	15.09	30
CH06	2437	14.09	0.8	14.89	30
CH09	2452	14.13	0.8	14.93	30

Note: Maximum Peak Conducted Output Power(dBm)= Reading Conducted Output Power(dBm)+ Cable loss

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4.4. EMISSION BANDWIDTH

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)				
Test Method:	KDB 558074	● HOWEN	MONTH OF THE PARTY		
Limit:	>500kHz	AK TESTING	A)G		
Test Setup:	Spectrum Analyzer	EUT	ANG HUAKTESTING		
Test Mode:	Transmitting mode with	modulation			
Test Procedure:	 The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW) = 100 kHz. Set the Video bandwidth (VBW) = 300 kHz. In order to make an accurate measurement. The 6dB bandwidth must be greater than 500 kHz. Measure and record the results in the test report. 				
Test Result:	PASS	O HUA	0		

Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	Feb. 16, 2024
RF cable	Times	1-40G	HKE-034	Feb. 17, 2023	Feb. 16, 2024
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	Feb. 16, 2024

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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Test data

Toot shannal	6dB Emission Bandwidth (MHz)						
Test channel	802.11b	802.11g	802.11n(H20)	802.11n(H40)			
Lowest	9.560	16.320	17.560	36.320			
Middle	9.000	16.320	17.560	36.320			
Highest	7.480	16.320	17.560	36.320			
Limit:	3 HUAKTES.	>	500k	- 1G			
Test Result:	104	TESTING	PASS	TING			

Test plots as follows:

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802.11b Modulation

Lowest channel



Middle channel



Highest channel



802.11g Modulation

Lowest channel



Middle channel



Highest channel



802.11n (HT20) Modulation

Lowest channel



Middle channel



Highest channel



802.11n (HT40) Modulation

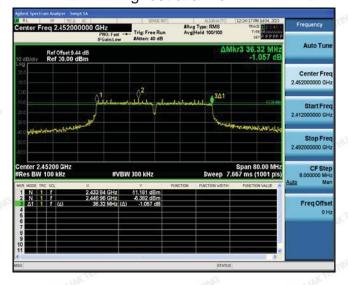
Lowest channel



Middle channel



Highest channel



4.5. POWER SPECTRAL DENSITY

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)					
Test Method:	KDB 558074					
Limit:	The average power spectral density shall not be greate than 8dBm in any 3kHz band at any time interval o continuous transmission.					
Test Setup:	Spectrum Analyzer					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 The testing follows Measurement procedure 10.2 method PKPSD of FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the span to at least 1.5 times the OBW. Detector = Peak, Sweep time = auto couple. Employ trace averaging (Peak) mode over a minimum of 100 traces. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report. 					
Test Result:	PASS MARTISTING					

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Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	Feb. 16, 2024
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 17, 2023	Feb. 16, 2024
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	Feb. 16, 2024
RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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Test data

EUT Set Mode	Channel	Result (dBm/30kHz)	Offset	Result (dBm/30kHz)	Result (dBm/3kHz)
	Lowest	-12.29	9.44	-2.85	-12.85
802.11b	Middle	-11.34	9.44	-1.9	-11.9
	_s Highest	-6.48	9.44	2.96	-7.04
	Lowest	-17.93	9.44	-8.49	-18.49
802.11g	Middle	-17.91	9.44	-8.47	-18.47
	Highest	-17.27	9.44	-7.83	-17.83
	Lowest	-17.81	9.44	-8.37	-18.37
802.11n(H20)	Middle	-18.02	9.44	-8.58	-18.58
	Highest	-17.8	9.44	-8.36	-18.36
	Lowest	-20.88	9.44	-11.44	-21.44
802.11n(H40)	Middle	-20.72	9.44	-11.28	-21.28
	, Highest	-21.12	9.44	-11.68	-21.68

PSDTest Result (dBm/30kHz)= Result +Offset

Offset= Instrument attenuation +cable loss=8.64 dB +0.8 dB =9.44dB

PSD test result (dBm/3kHz)= PSD test result (dBm/30kHz)-10

Limit: 8dBm/3kHz

Test Result: PASS

Test plots as follows:

802.11b Modulation

Lowest channel



Middle channel



Highest channel



802.11g Modulation

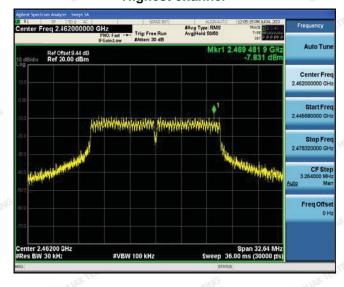
Lowest channel



Middle channel



Highest channel





802.11n (HT20) Modulation

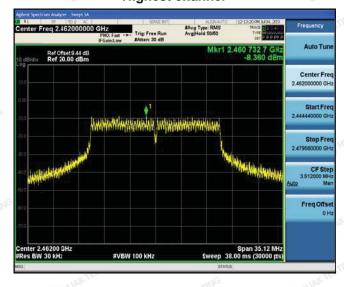
Lowest channel



Middle channel

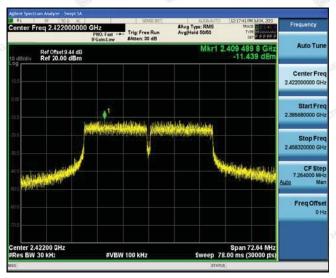


Highest channel

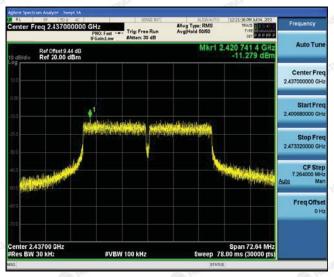


802.11n (HT40) Modulation

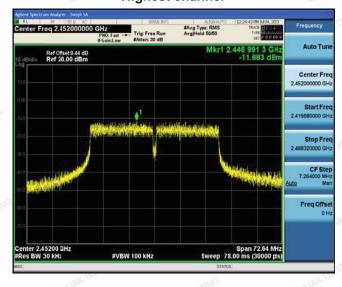
Lowest channel



Middle channel



Highest channel



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4.6. CONDUCTED BAND EDGE AND SPURIOUS EMISSION MEASUREMENT

Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)					
Test Method:	KDB558074					
Limit:	In any 100 kHz bandwidth outside of the authorized frequency band, the emissions which fall in the non-restricted bands shall be attenuated at least 20 dB / 30dB relative to the maximum PSD level in 100 kHz by RF conducted measurement and radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).					
Test Setup:	Spectrum Analyzer EUT					
Test Mode:	Transmitting mode with modulation					
Test Procedure:	 The testing follows FCC KDB Publication 558074 D01 15.247 Meas Guidance v05r02. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW=300 kHz, Peak Detector. Unwanted Emissions measured in any 100 kHz bandwidth outside of the authorized frequency band shall be attenuated by at least 20 dB relative to the maximum in-band peak PSD level in 100 kHz when maximum peak conducted output power procedure is used. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, the attenuation required under this paragraph shall be 30 dB instead of 20 dB per 15.247(d). Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. 					
Test Result:	PASS					

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Test Instruments

RF Test Room						
Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due	
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	Feb. 16, 2024	
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 17, 2023	Feb. 16, 2024	
RF Cable (9KHz-26.5GHz)	Tonscend	170660	N/A	Feb. 17, 2023	Feb. 16, 2024	
RF automatic control unit	Tonscend	JS0806-2	HKE-060	Feb. 17, 2023	Feb. 16, 2024	
RF test software	Tonscend	JS1120-B Version 2.6	HKE-083	N/A	N/A	

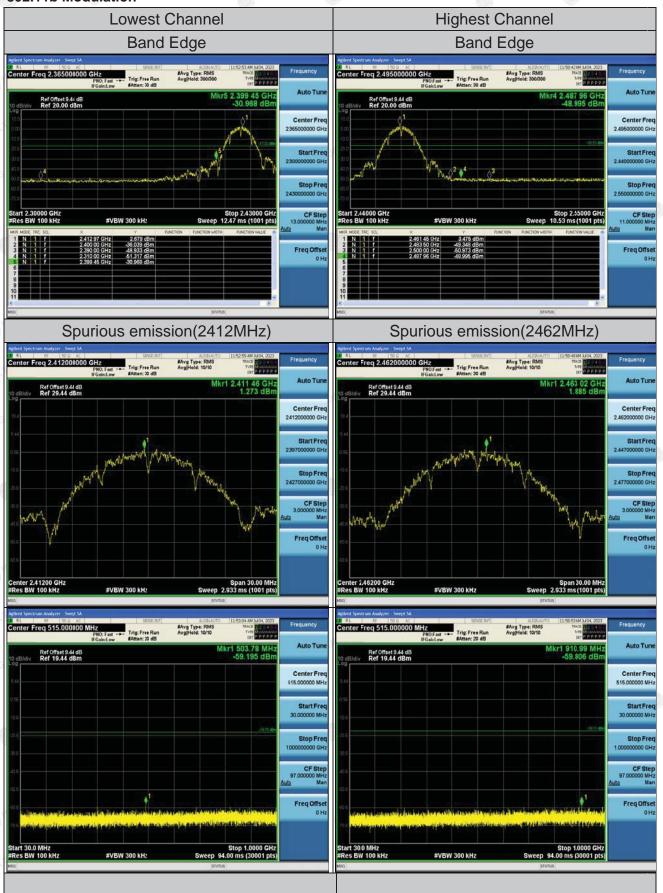
Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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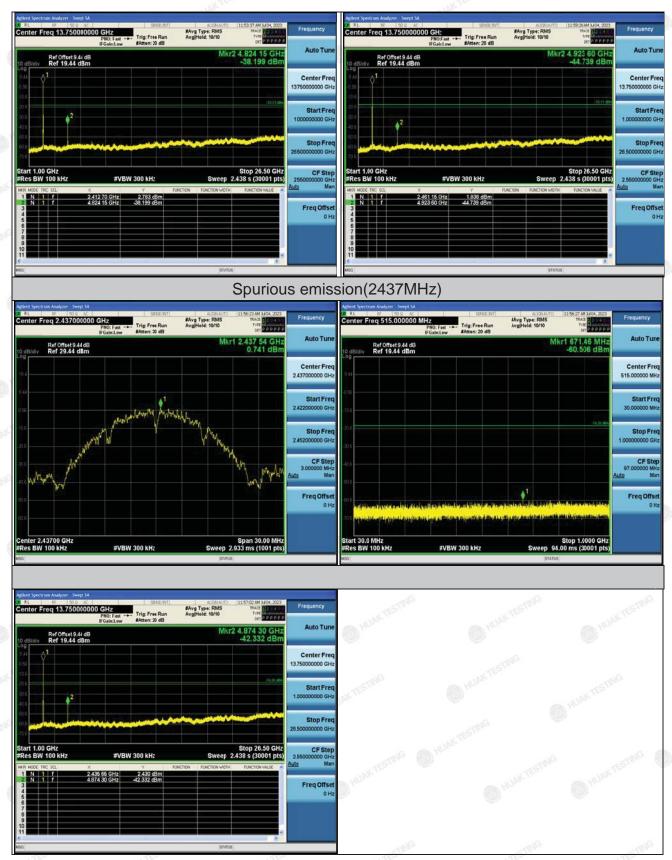


Test Data

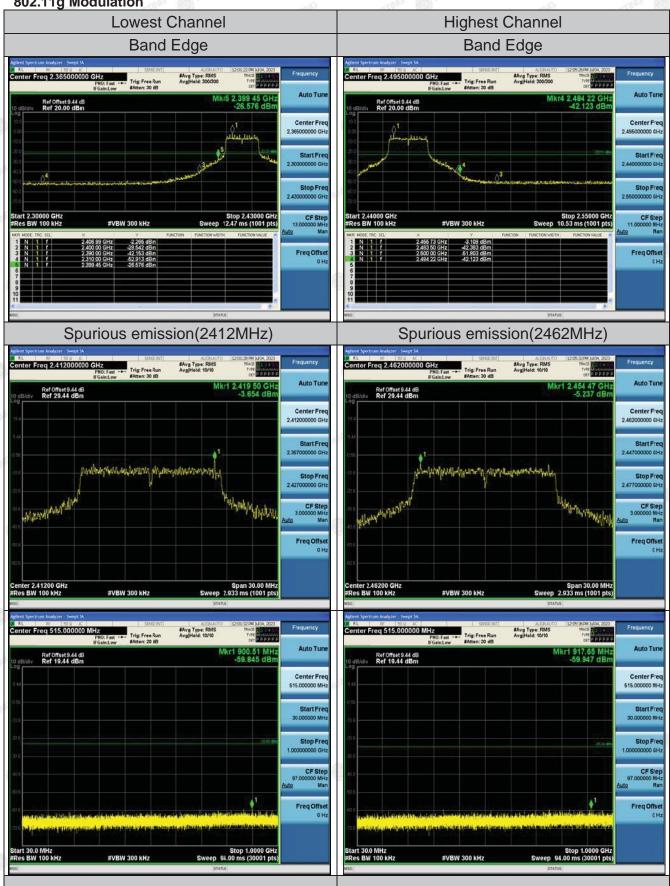
802.11b Modulation





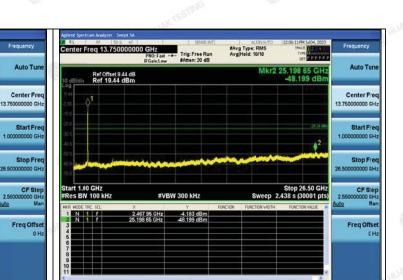


802.11g Modulation

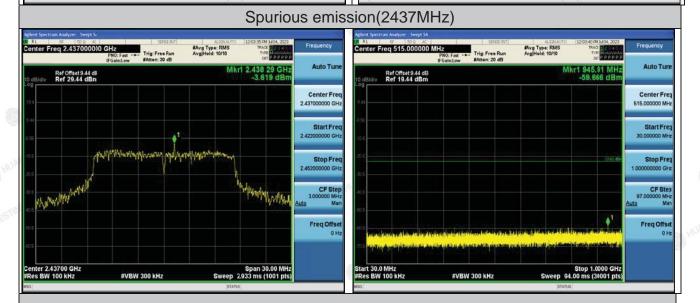


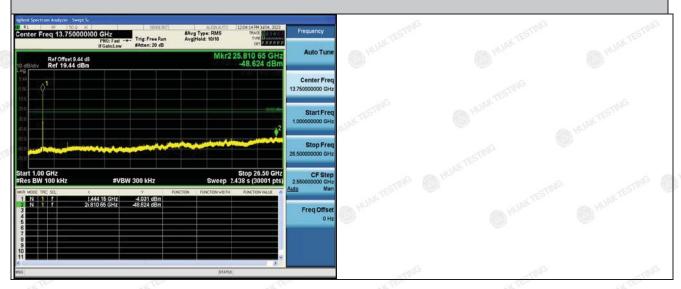
Ref Offset 9.44 cB Ref 19.44 dBm

> 2,404 20 GHz 4,662 dBm 25,735 00 GHz 47,515 dBm

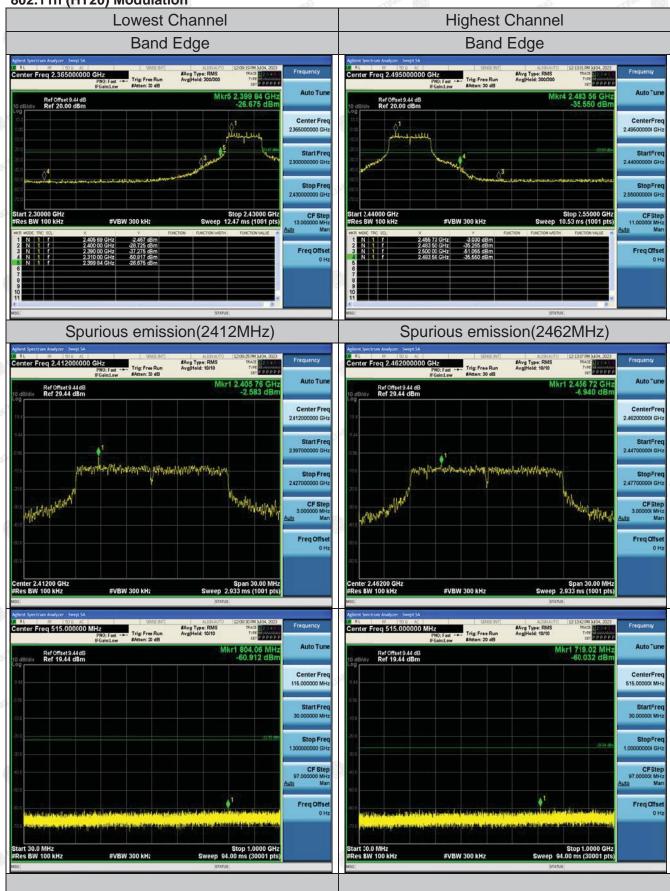


Report No.: HK2306282723-E



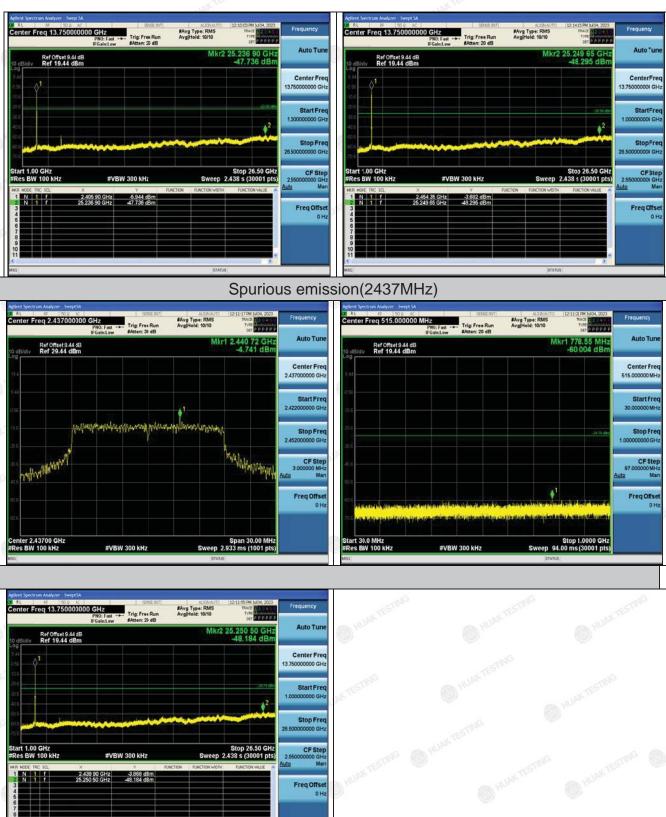






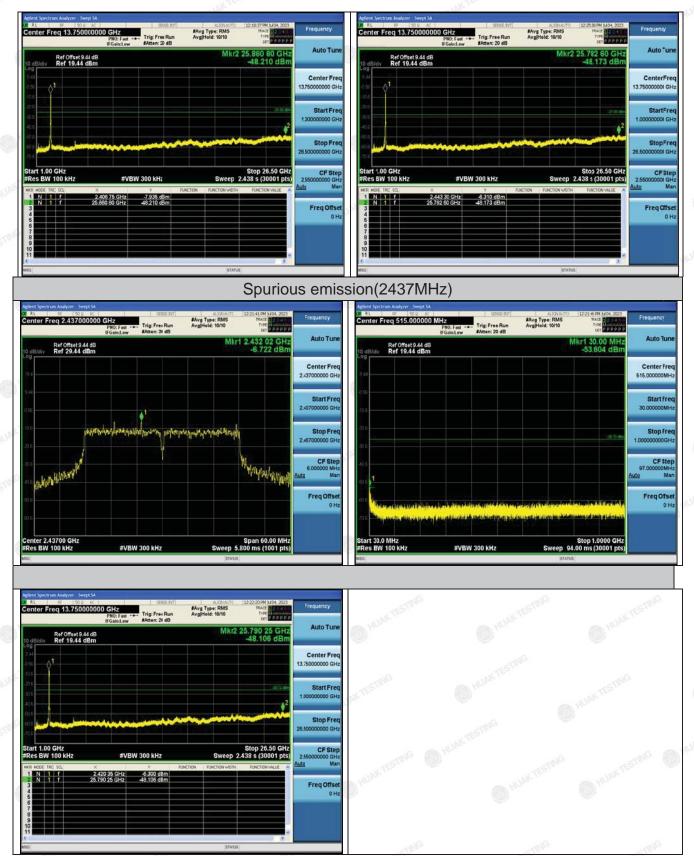
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4.7. RADIATED SPURIOUS EMISSION MEASUREMENT

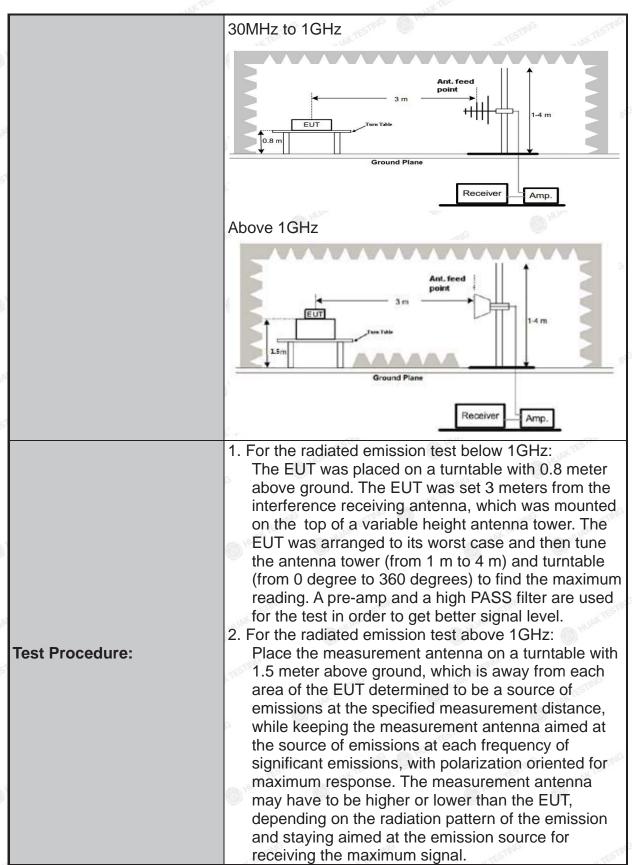
Test Specification

Test Requirement:	FCC Part15	C Section	n 1	5.209	TI	IG.	-TI	
Test Method:	ANSI C63.10	LAKTE		00	HUAK TES.		HUAKTES.	
Frequency Range:	9 kHz to 25 (0	e)G			
Measurement Distance:	3 m	OT IZ		(II) ==	AK TESTING		CTING	
Antenna Polarization:	Horizontal &	Vortical		(65)		490	HUAKTES	
	3		201	eST.	_N G	9		
Operation mode:	Transmitting	mode w	'ith	modulati	on			
	Frequency	Detecto		RBW	VBW	+	Remark	
Receiver Setup:	9kHz- 150kHz 150kHz- 30MHz	Quasi-pe Quasi-pe		200Hz 9kHz	1kHz 30kHz	†	si-peak Value si-peak Value	
·	30MHz-1GHz	Quasi-pe	ak	120KHz	300KHz	_	si-peak Value	
	Above 1GHz	Peak	TIN	1MHz	3MHz	1	eak Value	
	40m	Peak		1MHz	10Hz	AVE	erage Value	
	Frequen	су	Field St (microvolt				asurement nce (meters)	
	0.009-0.490			2400/F(K		300		
	0.490-1.705 1.705-30			24000/F(KHz) 30		30		
	30-88			100	MC	3		
	88-216			150		.527	3	
Limit:	216-960			200		STING	3 TESTINA	
	Above 960			500	HUAK.		3	
	Frequency		rield Strength		Measure Distan (meter	се	Detector	
	Above 1CH	TO FURK TE	5	00	3		Average	
	Above 1GHz		5000		3		Peak	
Test setup:	For radiated	Twn	ns k	m -	RX Ante		A MARIE MARIE	
	30MHz to 10	GHz mis		€ H ^U	Receive	er L	MAN STR	

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The final measurement antenna elevation shall be that which maximizes the emissions. The
measurement antenna elevation for maximum
emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference
ground plane.
3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level
4. For measurement below 1GHz, 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.
5. Use the following spectrum analyzer settings:
(1) Span shall wide enough to fully capture the emission being measured;
(2) Set RBW=120 kHz for f < 1 GHz; VBW ≥RBW;
Sweep = auto; Detector function = peak; Trace = max hold;
(3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement.
6.For average measurement: VBW = 10 Hz, 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

Test results:

power control level for the tested mode of operation. PASS





Test Instruments

	Rad	iated Emission	Test Site (966	5)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Date	Calibration Due
Receiver	R&S	ESR-7	HKE-010	Feb. 17, 2023	Feb. 16, 2024
Spectrum analyzer	Agilent	N9020A	HKE-048	Feb. 17, 2023	Feb. 16, 2024
Spectrum analyzer	R&S	FSP40	HKE-025	Feb. 17, 2023	Feb. 16, 2024
High gain antenna	Schwarzbeck	LB-180400KF	HKE-054	Feb. 17, 2023	Feb. 16, 2024
Preamplifier	Schwarzbeck	BBV 9743	HKE-006	Feb. 17, 2023	Feb. 16, 2024
Preamplifier	EMCI	EMC051845S E	HKE-015	Feb. 17, 2023	Feb. 16, 2024
Preamplifier	Agilent	83051A	HKE-016	Feb. 17, 2023	Feb. 16, 2024
Loop antenna	Schwarzbeck	FMZB 1519 B	HKE-014	Feb. 17, 2023	Feb. 16, 2024
Broadband antenna	Schwarzbeck	VULB 9163	HKE-012	Feb. 17, 2023	Feb. 16, 2024
Horn antenna	Schwarzbeck	9120D	HKE-013	Feb. 17, 2023	Feb. 16, 2024
High pass filter unit	Tonscend	JS0806-F	HKE-055	Feb. 17, 2023	Feb. 16, 2024
Antenna Mast	Keleto	CC-A-4M	N/A	N/A	N/A
Position controller	Taiwan MF	MF7802	HKE-011	Feb. 17, 2023	Feb. 16, 2024
Radiated test software	Tonscend	TS+ Rev 2.5.0.0	HKE-082	N/A	N/A
RF cable	Times	9kHz-1GHz	HKE-117	Feb. 17, 2023	Feb. 16, 2024
RF cable	Times	1-40G	HKE-034	Feb. 17, 2023	Feb. 16, 2024
Horn Antenna	Schewarzbeck	BBHA 9170	HKE-017	Feb. 17, 2023	Feb. 16, 2024

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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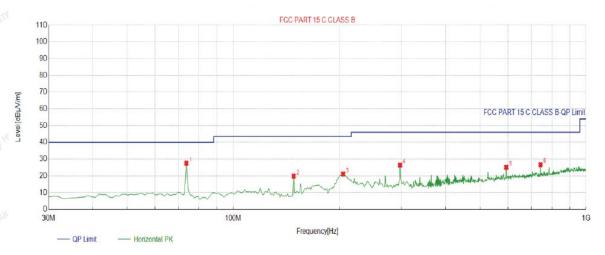
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Test Data

All the test modes completed for test. only the worst result of (802.11b at 2412MHz) was reported as below:

Below 1GHz

Horizontal

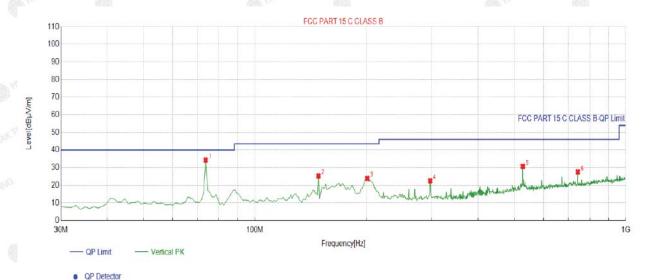


QP Detector

	Suspe	Suspected List									
1	NO.	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Polarity	
3	NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Folanty	
	1	73.6937	-16.44	43.95	27.51	40.00	12.49	100	232	Horizontal	
	2	148.4585	-18.68	38.56	19.88	43.50	23.62	100	13	Horizontal	
	3	204.7748	-14.64	35.79	21.15	43.50	22.35	100	77	Horizontal	
9	4	297.0170	-12.04	38.45	26.41	46.00	19.59	100	264	Horizontal	
e e	5	594.1341	-5.30	30.45	25.15	46.00	20.85	100	359	Horizontal	
	6	742.6927	-2.95	29.64	26.69	46.00	19.31	100	61	Horizontal	

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level





Suspe	Suspected List										
NO	Freq.	Factor	Reading	Level	Limit	Margin	Height	Angle	Delevity		
NO.	[MHz]	[dB]	[dBµV/m]	[dBµV/m]	[dBµV/m]	[dB]	[cm]	[°]	Polarity		
1	73.6937	-16.44	50.73	34.29	40.00	5.71	100	222	Vertical		
2	148.4585	-18.68	44.01	25.33	43.50	18.17	100	296	Vertical		
3	200.8909	-15.11	39.07	23.96	43.50	19.54	100	158	Vertical		
4	297.0170	-12.04	34.63	22.59	46.00	23.41	100	251	Vertical		
5	528.1081	-6.97	37.64	30.67	46.00	15.33	100	203	Vertical		
6	742.6927	-2.95	30.47	27.52	46.00	18.48	100	62	Vertical		

Remark: Factor = Cable loss + Antenna factor - Preamplifier; Level = Reading + Factor; Margin = Limit - Level

Harmonics and Spurious Emissions

Frequency Range (9kHz-30MHz)

	Frequency (MHz)	Level@3m (dBµV/m)	Limit@3m (dBµV/m)		
NG		G	Dra		
	- Sig	AKTESTI"			
	JAKTES!"	AKTESTI	O PRO JAK TESTA		
		© ***			

Note: 1. Emission Level=Reading+ Cable loss-Antenna factor-Amp factor.

2. The emission levels are 20 dB below the limit value, which are not reported. It is deemed to comply with the requirement.



Above 1GHz

RADIATED EMISSION TEST

LOW CH1 (802.11b Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4824	59.25	-3.64	55.61	74	-18.39	peak
4824	42.5	-3.64	38.86	54	-15.14	AVG
7236	53.48	-0.95	52.53	74	-21.47	peak
7236	40.20	-0.95	39.25	54	-14.75	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level -

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4824	61.11	-3.64	57.47	74	-16.53	peak
4824	42.3	-3.64	38.66	54	-15.34	AVG
7236	53.44	-0.95	52.49	74	-21.51	peak
7236	39.63	-0.95	38.68	54	-15.32	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifierr; Level = Reading + Factor; Margin = Level -

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MID CH6 (802.11b Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	58.87	-3.51	55.36	74	-18.64	peak
4874	44.12	-3.51	40.61	54	-13.39	AVG
7311	54.72	-0.82	53.9	74	-20.1	peak
7311	39.88	-0.82	39.06	54	-14.94	AVG

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	58.91	-3.51	55.4	74	-18.6	peak
4874	43.90	-3.51	40.39	54	-13.61	AVG
7311	53.72	-0.82	52.9	74	-21.1	peak
7311	40.37	-0.82	39.55	54	-14.45	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level

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HIGH CH11 (802.11b Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4924	60.99	-3.43	57.56	74	-16.44	peak
4924	42.8	-3.43	39.37	54	-14.63	AVG
7386	52.82	-0.75	52.07	74	-21.93	peak
7386	39.44	-0.75	38.69	54	-15.31	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	。 (dBμV/m)	(dB)	Туре
4924	59.71	-3.43	56.28	74	-17.72	peak
4924	44.26	-3.43	40.83	54	-13.17	AVG
7386	53.5	-0.75	52.75	74	-21.25	peak
7386	39.64	-0.75	38.89	54	-15.11	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.



LOW CH1 (802.11g Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4824	59.1	-3.64	55.46	74	-18.54	peak
4824	41.99	-3.64	38.35	54 MARK	-15.65	AVG
7236	52.57	-0.95	51.62	74	-22.38	peak
7236	39.23	-0.95	38.28	54	-15.72	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level -

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	59.9	-3.64	56.26	74 MAN	-17.74	peak
4824	42.73	-3.64	39.09	54	-14.91	AVG
7236	54.3	-0.95	53.35	74	-20.65	peak
7236	42.16	-0.95	41.21	54	-12.79	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level -

MID CH6 (802.11g Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4874	58.62	-3.51	55.11	74	-18.89	peak
4874	43.28	-3.51	39.77	54	-14.23	AVG
7311	55.15	-0.82	54.33	74	-19.67	peak
7311	40.24	-0.82	39.42	54	-14.58	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level -

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874	59.62	-3.51	56.11	74	-17.89	peak
4874	41.93	-3.51	38.42	54	-15.58	AVG
7311	54.07	-0.82	53.25	74	-20.75	peak
7311	40.17	-0.82	39.35	54	-14.65	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

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HIGH CH11 (802.11g Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4924	59.56	-3.43	56.13	74	-17.87	peak
4924	42.89	-3.43	39.46	54	-14.54	AVG
7386	55.16	-0.75	54.41	74	-19.59	peak
7386	39.3	-0.75	38.55	54	-15.45	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level -

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4924	61.1	-3.43	57.67	74	-16.33	peak
4924	44.43	-3.43	41	54	-13	AVG
7386	53.72	-0.75	52.97	74	-21.03	peak
7386	41.96	-0.75	41.21	54	-12.79	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Remark.

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54dBuV/m(AV Limit), the Average Detected not need to completed.



LOW CH1 (802.11n/H20 Mode)/2412

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4824	59.18	-3.64	55.54	74	-18.46	peak
4824	42.93	-3.64	39.29	54	-14.71	AVG
7236	55.16	-0.95	54.21	74	-19.79	peak
7236	40.67	-0.95	39.72	54	-14.28	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level -

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4824	59.29	-3.64	55.65	74	-18.35	peak
4824	44.45	-3.64	40.81	54	-13.19	AVG
7236	54.52	-0.95	53.57	74	-20.43	peak
7236	39.62	-0.95	38.67	54	-15.33	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit



MID CH6 (802.11n/H20 Mode)/2437

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Type
4874.00	60.65	-3.51	57.14	74.00	-16.86	peak
4874.00	42.19	-3.51	38.68	54.00	-15.32	AVG
7311.00	52.62	-0.82	51.80	74.00	-22.20	peak
7311.00	41.71	-0.82	40.89	54.00	-13.11	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Fraguenov	Motor Pooding	Factor	Emission Lovel	Limito	Morgin	MAK TES
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Туре
4874.00	61.31	-3.51	57.80	74.00	-16.20	peak
4874.00	43.25	-3.51	39.74	54.00	-14.26	AVG
7311.00	53.66	-0.82	52.84	74.00	-21.16	peak
7311.00	40.73	-0.82	39.91	54.00	-14.09	AVG

Remark: Factor = Antenna Factor + Cable Loss – Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

C SIL

HIGH CH11 (802.11n/H20 Mode)/2462

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastan Torre
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	59.18	-3.43	55.75	74	-18.25	peak
4924	44.37	-3.43	40.94	54	-13.06	AVG
7386	55.27	-0.75	54.52	74	-19.48	peak
7386	40.53	-0.75	39.78	54	-14.22	AVG
	1G 695 1		•	AG AND TO		· G

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4924	58.76	-3.43	55.33	74	-18.67	peak
4924	42.02	-3.43	38.59	54	-15.41	AVG
7386	52.69	-0.75	51.94	74	-22.06	peak
7386	40.44	-0.75	39.69	54	-14.31	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



LOW CH3 (802.11n/H40 Mode)/2422

Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	60.15	-3.63	56.52	74	-17.48	peak
4844	42.47	-3.63	38.84	54	-15.16	AVG
7266	55.40	-0.94	54.46	74	-19.54	peak
7266	40.00	-0.94	39.06	54	-14.94	AVG
-G1111	TES		STILL TEST		-G7111	, TES.

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4844	58.49	-3.63	54.86	74 (m)	-19.14	peak
4844	43.74	-3.63	40.11	54	-13.89	AVG
7266	55.13	-0.94	54.19	74	-19.81	peak
7266	40.99	-0.94	40.05	54	-13.95	AVG
1000	32	(C)	10301		ASSET A	10301

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

W. TESTIN

MID CH6 (802.11n/H40 Mode)/2437

Horizontal:

Meter Reading	Factor	Emission Level	Limits	Margin	Datastas Tyma
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
61.34	-3.51	57.83	74	-16.17	peak
43.45	-3.51	39.94	54	-14.06	AVG
53.33	-0.82	52.51	74	-21.49	peak
40.35	-0.82	39.53	54 TEST	-14.47	AVG
	(dBµV) 61.34 43.45 53.33	(dBµV) (dB) 61.34 -3.51 43.45 -3.51 53.33 -0.82	(dBμV) (dB) (dBμV/m) 61.34 -3.51 57.83 43.45 -3.51 39.94 53.33 -0.82 52.51	(dBμV) (dB) (dBμV/m) (dBμV/m) 61.34 -3.51 57.83 74 43.45 -3.51 39.94 54 53.33 -0.82 52.51 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 61.34 -3.51 57.83 74 -16.17 43.45 -3.51 39.94 54 -14.06 53.33 -0.82 52.51 74 -21.49

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Time
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4874	59.12	-3.51	55.61	74	-18.39	peak
4874	41.93	-3.51	38.42	54	-15.58	AVG
7311	52.45	-0.82	51.63	74	-22.37	peak
7311	40.92	-0.82	40.1	54	-13.9	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

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HIGH CH9 (802.11n/H40 Mode)/2452 Horizontal:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastar Turas
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904	60.04	-3.43	56.61	74	-17.39	peak
4904	44.56	-3.43	41.13	54	-12.87	AVG
7356	52.68	-0.75	51.93	74	-22.07	peak
7356	39.23	-0.75	38.48	54	-15.52	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
4904	59.39	-3.43	55.96	74	-18.04	peak
4904	42.46	-3.43	39.03	54	-14.97	AVG
7356	53.73	-0.75	52.98	74	-21.02	peak
7356	42.06	-0.75	41.31	54	-12.69	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Remark:

- (1) Measuring frequencies from 1 GHz to the 25 GHz.
- (2) "F" denotes fundamental frequency; "H" denotes spurious frequency; "E" denotes band edge frequency.
- (3) * denotes emission frequency which appearing within the Restricted Bands specified in provision of 15.205, then the general radiated emission limits in 15.209 apply.
- (4) The emissions are attenuated more than 20dB below the permissible limits are not recorded in the report.
- (5) The IF bandwidth of EMI Test Receiver between 30MHz to 1GHz was 120KHz, 1 MHz for measuring above 1 GHz, below 30MHz was 10KHz.
- (6) When the test results of Peak Detected below the limits of Average Detected, the Average Detected is not need completed. For example: Top Channel at Fundamental 73.16dBuV/m(PK Value) <93.98(AV Limit), at harmonic 53.20 dBuV/m(PK Value) <54 dBuV/m(AV Limit), the Average Detected not need to completed.



Test Result of Radiated Spurious at Band edges

Operation Mode: 802.11b Mode TX CH Low (2412MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data et en Tura
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310	53.46	-5.81	47.65	74	-26.35	peak
2310	STING WHUA	-5.81	ING / STAY	54	Inc.	AVG
2390	53.97	-5.84	48.13	74	-25.87	peak
2390	/	-5.84	1	54	/	AVG
2400	54.16	-5.84	48.32	74	-25.68	peak
2400	MUAKTE /	-5.84	1 HUAK TE	54	WAKTE	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data star Tona
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310	53.16	-5.81	47.35	74	-26.65	peak
2310	1	-5.81	1	54	mg	AVG
2390	54.22	-5.84	48.38	74	-25.62	peak
2390	1	-5.84	1	54	ang 1	AVG
2400	56.28	-5.84	50.44	74	-23.56	peak
2400	1	-5.84	MANA MANA	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

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Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data star Tuna
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	54.16	-5.65	48.51	74	-25.49	peak
2483.50	/	-5.65	MINN!	54	1 0 V	AVG
2500.00	53.62	-5.65	47.97	74	-26.03	peak
2500.00	JAK TESTING	-5.65	ING / HAK TESTIN	54	OK TSTING	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

	Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data star Tuna
100	(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
	2483.50	52.36	-5.65	46.71	74	-27.29	peak
	2483.50	I NE	-5.65	1	54	1	AVG
	2500.00	53.46	-5.65	47.81	74	-26.19	peak
9	2500.00	/	-5.65	1	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

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Operation Mode: 802.11g Mode TX CH Low (2412MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data et a a Toure
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310	53.47	-5.81	47.66	74	-26.34	peak
2310	mis 1	-5.81	1	54	ESTING /	AVG
2390	54.12	-5.84	48.28	74	-25.72	peak
2390	/	-5.84	1	54	/	AVG
2400	56.56	-5.84	50.72	74	-23.28	peak
2400	1	-5.84	(1) I'm	54	HUAK	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector True
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310	54.16	-5.81	48.35	74	-25.65	peak
2310	A LESLING WHO	-5.81	SING / TESTIN	54	AS ING	AVG
2390	54.25	-5.84	48.41	74	-25.59	peak
2390	/	-5.84	/	54	/	AVG
2400	54.97	-5.84	49.13	74	-24.87	peak
2400	HOP-	-5.84	T. HOW	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit





Operation Mode: TX CH High (2462MHz)

Horizontal

Meter Reading	Factor	Emission Level	Limits	Margin	Data ata Timo
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
56.39	-5.65	50.74	74	-23.26	peak
STINE /	-5.65	- MAY/ESTING	54	/	AVG
54.17	-5.65	48.52	74	-25.48	peak
TIME WHAT	-5.65	oug /	54	1	AVG
	(dBµV) 56.39	(dBµV) (dB) 56.39 -5.65 / -5.65 54.17 -5.65	(dBμV) (dB) (dBμV/m) 56.39 -5.65 50.74 / -5.65 / 54.17 -5.65 48.52	(dBμV) (dB) (dBμV/m) (dBμV/m) 56.39 -5.65 50.74 74 / -5.65 / 54 54.17 -5.65 48.52 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dB) 56.39 -5.65 50.74 74 -23.26 / -5.65 / 54 / 54.17 -5.65 / 54 -25.48 / -5.65 / 54 /

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

A. V.	6.7%	2.75	A.V.		6.70	2,7%
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	56.34	-5.65	50.69	74	-23.31	peak
2483.50	/	-5.65	1	54	1 B	AVG
2500.00	56.91	-5.65	51.26	74	-22.74	peak
2500.00	1	-5.65	1 HOM	54	1 HILL	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



Operation Mode: 802.11n/H20 Mode TX CH Low (2412MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Datastas Timo
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2310	54.02	-5.81	48.21	74	-25.79	peak
2310	STING /	-5.81	AV ESTING	54	/	AVG
2390	56.39	-5.84	50.55	74	-23.45	peak
2390	NG MUA	-5.84	/	54	1	AVG
2400	54.17	-5.84	48.33	74	-25.67	peak
2400	/	-5.84	/	54	9 1	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Meter Reading	Factor	Emission Level	Limits	Margin	Data tan Tuna
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
55.02	-5.81	49.21	74	-24.79	peak
AK TESTING	-5.81	ING / TESTIN	54	OK TE TING	AVG
54.37	-5.84	48.53	74	-25.47	peak
/	-5.84	/	54	/	AVG
56.92	-5.84	51.08	74	-22.92	peak
/	-5.84		54	/	AVG
	(dBµV) 55.02 / 54.37	(dBµV) (dB) 55.02 -5.81 / -5.81 54.37 -5.84 / -5.84 56.92 -5.84	(dBμV) (dB) (dBμV/m) 55.02 -5.81 49.21 / -5.81 / 54.37 -5.84 48.53 / -5.84 / 56.92 -5.84 51.08	(dBμV) (dB) (dBμV/m) (dBμV/m) 55.02 -5.81 49.21 74 / -5.81 / 54 54.37 -5.84 48.53 74 / -5.84 / 54 56.92 -5.84 51.08 74	(dBμV) (dB) (dBμV/m) (dBμV/m) (dBμV/m) 55.02 -5.81 49.21 74 -24.79 / -5.81 / 54 / 54.37 -5.84 48.53 74 -25.47 / -5.84 / 54 / 56.92 -5.84 51.08 74 -22.92

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit



Operation Mode: TX CH High (2462MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	54.02	-5.65	48.37	74 HUAN	-25.63	peak
2483.50	/	-5.65	MINN!	54	1 0 Y	AVG
2500.00	56.93	-5.65	51.28	74	-22.72	peak
2500.00	MAK TESTING	-5.65	ING / HAK TESTIN	54	OK 15 THE	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Dotactor Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	56.34	-5.65	50.69	74	-23.31	peak
2483.50	I HUI	-5.65	1	54	1	AVG
2500.00	55.02	-5.65	49.37	74	-24.63	peak
2500.00	/	-5.65	1	54	/	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.



Operation Mode: 802.11n/H40 Mode TX CH Low (2422MHz)

Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Data ta TETING
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
[©] 2310	54.12	-5.81	48.31	74	-25.69	peak
2310	ESTING /	-5.81	- unay/ESTINE	54	/	AVG
2390	56.92	-5.84	51.08	74	-22.92	peak
2390	STIME! WHILE	-5.84	NG / STIN	54	1	AVG
2400	57.36	-5.84	51.52	74	-22.48	peak
2400	/	-5.84	1	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

Detector Tune	Margin	Limits	Emission Level	Factor	Meter Reading	Frequency
Detector Type	(dB)	(dBµV/m)	(dBµV/m)	(dB)	(dBµV)	(MHz)
peak	-23.44	74	50.56	-5.81	56.37	2310
AVG	Man /	54	O I''	-5.81	/	2310
peak	-25.68	74	48.32	-5.84	54.16	2390
AVG	WAX TESTING	54	/ ILAN TEST	-5.84	WAX TESTING	2390
peak	-24.59	74	49.41	-5.84	55.25	2400
AVG	ESTING /	54	1 TING	-5.84	TING /	2400
	HAY TESTIFE	54 74	1 HARTEST	-5.84 -5.84	TAK TESTING	2390

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit



Operation Mode: TX CH High (2452MHz)

Horizontal

48324	ALD	41.04			40.00	VID.
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	54.02	-5.65	48.37	74 HUAK	-25.63	peak
2483.50	/	-5.65	MINAN!	54	1 0 V	AVG
2500.00	56.32	-5.65	50.67	74	-23.33	peak
2500.00	DAY TESTING	-5.65	ING / TESTIN	54	OK TSTING	AVG
DECEM-		ADD HO	DECEMA TO SERVICE AND ADDRESS OF THE PERSON		Ob Ho	

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Vertical:

100 100 100 100 100 100 100 100 100 100		100000	1003.527	100000		100000
Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Detector Type
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	Detector Type
2483.50	54.16	-5.65	48.51	74	-25.49	peak
2483.50	MG HUAK	-5.65	1	54	1	AVG
2500.00	56.39	-5.65	50.74	74	-23.26	peak
2500.00	/	-5.65	/	54	1	AVG

Remark: Factor = Antenna Factor + Cable Loss - Pre-amplifier; Level = Reading + Factor; Margin = Level - Limit

Remark: All the other emissions not reported were too low to read and deemed to comply with FCC limit.

Remark:

- 1. If the PK measured levels comply with average limit, then the average level were deemed to comply with average limit.
- In restricted bands of operation, the spurious emissions below the permissible value more than 20dB.
- 3. The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.



4.8. ANTENNA REQUIREMENT

Standard Applicable

For intentional device, according to FCC 47 CFR Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. And according to FCC 47 CFR Section 15.247, if transmitting antennas of directional gain greater than6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6dBi.

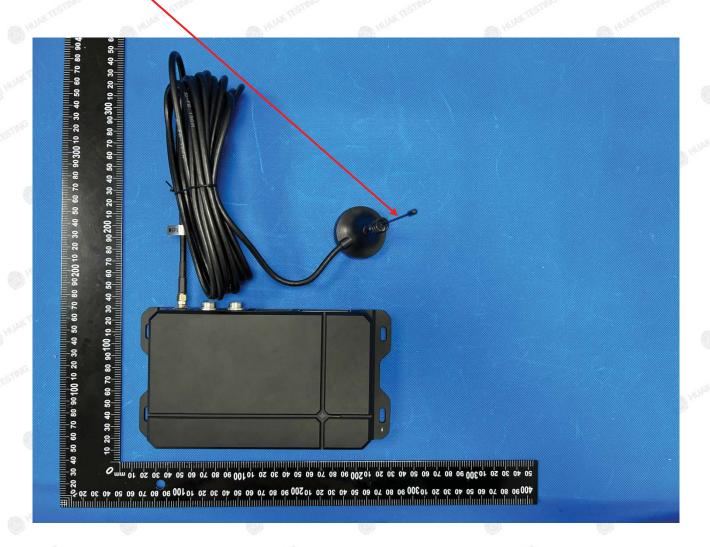
Refer to statement below for compliance.

The manufacturer may design the unit so that the user can replace a broken antenna, but the use of a standard antenna jack or electrical connector is prohibited. Further, this requirement does not apply to intentional radiators that must be professionally installed.

Antenna Connected Construction

The antenna used in this product is a External Antenna, need professional installation. It conforms to the standard requirements. The directional gains of antenna used for transmitting is 5dBi.

WIFI ANTENNA



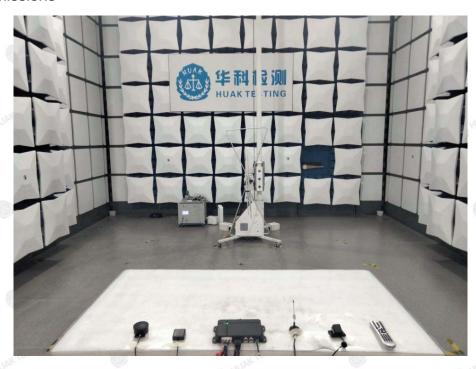
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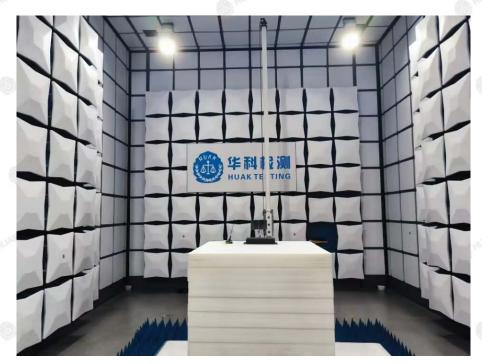
TEL: +86-755 2302 9901 FAX: +86-755 2302 9901 E-mail: service@cer-mark.com



5. PHOTOGRAPH OF TEST

Radiated Emissions





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6. PHOTOS OF THE EUT

Reference to the report: ANNEX A of external photos and ANNEX B of internal photos.

-----End of test report-----

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