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TEST REPORT

FCC ID: 2AXYP-V8001

Product: Tablet

Model No.: VILLAON

Trade Mark: V8001

Report No.: WSCT-A2LA-R&E231200026A-Wi-Fi

Issued Date: 28 December 2023

Issued for:

ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

Issued By:

World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China

> TEL: +86-755-26996192 FAX: +86-755-86376605

Note: The results contained in this report pertain only to the tested sample. This report shall not be reproduced, except in full, without written approval of World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. This report must not be used by the client to claim product certification, approval, or any agency of the U.S. Government.

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Certificate #5768.01

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Certificate Number 5768.01

Report No.: WSCT-A2LA-R&E230300006A-Wi-F

Test Certification

Product: Tablet //

VILLAON Model No .:

V8001 Trade Mark:

Applicant: ORAIMO TECHNOLOGY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHA Address:

N MEI STREET FOTAN NT HONGKONG

ORAIMO TECHNOLOGY LIMITED Manufacturer:

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHA Address:

N MEI STREET FOTAN NT HONGKONG

08 December 2023 ~ 27 December 2023 Date of Test:

Applicable FCC CFR Title 47 Part 15 Subpart C Section 15.247 Standards:

The above equipment has been tested by World Standardization Certification & Testing Group(Shenzhen)Co., Ltd. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

(Wang Xiang)

Checked By:

(Li Huaibi)

Approved By:

Date: 28

(Liu Fuxin)

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2. Test Result Summary

-		Seed A. A. L. M. Markey	
	Requirement	CFR 47 Section	Result
0	Antenna requirement	§15.203/§15.247 (c)	PASS
	AC Power Line Conducted Emission	§15.207	PASS
7	Conducted Peak Output Power	§15.247 (b)(3) §2.1046	PASS
	6dB Emission Bandwidth	§15.247 (a)(2) §2.1049	PASS
	Power Spectral Density	§15.247 (e)	PASS
7	Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
6	Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	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.



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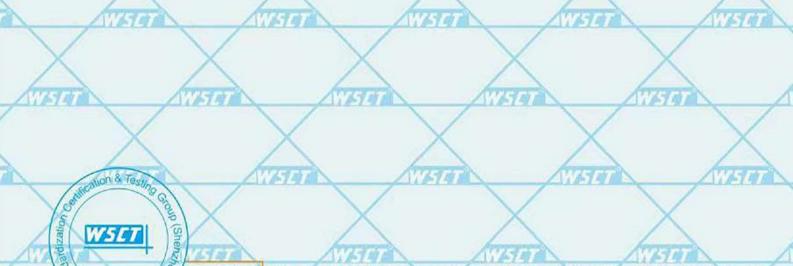
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3. EUT Description

Annual Annual Annual
Tablet
VILLAON
V8001
2412MHz~2462MHz (802.11b/g/n(HT20)) 2422MHz~2452MHz (802.11n(HT40))
5MHz
DSSS(DBPSK, DQPSK, CCK) for IEEE 802.11b OFDM(BPSK,QPSK,16QAM,64QAM) for IEEE 802.11g/n
Integral Antenna
1.31dBi
Rechargeable Li-ion Polymer Battery :BL-40PV Rated Voltage: 3.8V Rated Cpacity:4000mAh/15.2Wh Typical Capacity:4100mAh/15.58Wh Limited Charge Voltage: 4.35V
Adapter: A18A-050100U-US2 Input: 100-240V~50/60Hz Max. 0.2A Output:5V===1A
N/A.



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Operation Frequency each of channel For 802.11b/g/n(HT20)

	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
7	CHEIN	2412MHz	4	2427MHz	77	2442MHz	10	2457MHz
	2	2417MHz	5	2432MHz	8	2447MHz	11	2462MHz
	3	2422MHz	6	2437MHz	9	2452MHz		

Operation Frequency each of channel For 802.11n (HT40)

Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
ATE IN	-	4-7	2427MHz	475	2442MHz	17274	
	\	5	2432MHz	8	2447MHz		
3	2422MHz	6	2437MHz	9	2452MHz		X

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 below:

802.11b/g/n (HT20)

Channel	Frequency
The lowest channel	2412MHz
The middle channel	2437MHz
The Highest channel	2462MHz

802.11n (HT40)

Channel	Frequency
The lowest channel	2422MHz
The middle channel	2437MHz
The Highest channel	2452MHz

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Genera Information 4.

4.1. 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 is

was worst case.		
X	Mode	X
WAS IN	802.11b	176700
	802.11g	
	802.11n(H20)	
ATTE ATT	802.11n(H40)	CIFT III III
Final Test Mode:		

Keep the EUT in continuous transmitting with Operation mode: 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). Duty cycle setting during the transmission is 98.5% with maximum power setting for all modulations.









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4.2. 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
Adapter	Adapter	/ X	1	ADAPTER

Note:

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- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended
- 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.

antenr	na connector is soldered on	the antenna port of EUT, an	nd the temporary antenna conn	nector is listed in the
Test In	nstruments.	77.57	NY STA	WETA
WESTER	Wester	N/HHH	WESTER	WSEE
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5. Facilities and Accreditations

5.1. Facilities

All measurement facilities used to collect the measurement data are located at Building A-B, Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China of the World Standardization Certification & Testing Group(Shenzhen) CO., LTD

The sites are constructed in conformance with the requirements of ANSI C63.4 and CISPR Publication 32. All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.2. ACCREDITATIONS

CNAS - Registration Number: L3732

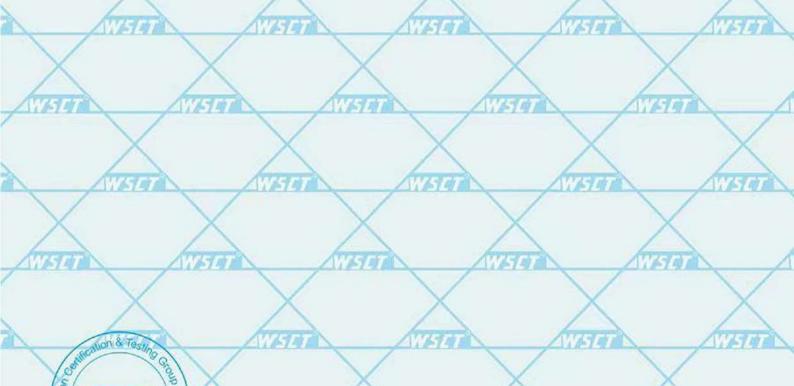
China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

FCC - Designation Number: CN1303

World Standardization Certification & Testing Group(Shenzhen) CO., LTD. has been accredited as a testing laboratory by FCC(Federal Communications Commission). The test firm Designation Number: CN1303.

A2LA - Certificate Number: 5768.01

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number: 5768.01



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5.3. 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 %.

1	No.	Item	MU
	1	Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
,	3//5/	Spurious emissions, conducted	±0.21dB
	4	All emissions, radiated(<1GHz)	±4.7dB
1	5	All emissions, radiated(>1GHz)	±4.7dB
	6	Temperature	±0.5°C
	7 X	Humidity	±2.0%



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5.4.MEASUREMENT INSTRUMENTS

	/ I A 7 4 A	/ 1767 H M	/ / / / /		A THE STATE OF THE	211	A
/	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibrati on Due.	
	Test software		EZ-EMC	CON-03A			
1	Test software		MTS8310	TIME PARTY	AT AT	674	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	1
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	É
<	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
zi.	Coaxial cable	Megalon	LMR400	N/A	11/05/2023	11/04/2024	
	GPIB cable	Megalon	GPIB	N/A	11/05/2023	11/04/2024	
	Spectrum Analyzer	R&S	FSU	100114	11/05/2023	11/04/2024	1
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	7
/	Pre-Amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	
9	Bi-log Antenna	SUNOL Sciences	JB3	A021907	11/05/2023	11/04/2024	
4	9*6*6 Anechoic	- A	194	1777	11/05/2023	11/04/2024	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		11/05/2023	11/04/2024	1
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	11/05/2023	11/04/2024	1
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	2
1	System-Controller	ccs	N/A	N/A	N.C.R	N.C.R	
	Turn Table	ccs	N/A	N/A	N.C.R	N.C.R	
4	Antenna Tower	ccs	N/A	N/A	N.C.R	N.C.R	
	RF cable	Murata	MXHQ87WA3000	-	11/05/2023	11/04/2024	
	Loop Antenna	EMCO	6502	00042960	11/05/2023	11/04/2024	7
	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	11/05/2023	11/04/2024	<i>P</i>
<	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
7	Power sensor	Anritsu	MX248XD	(1)23 H	11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	-



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6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

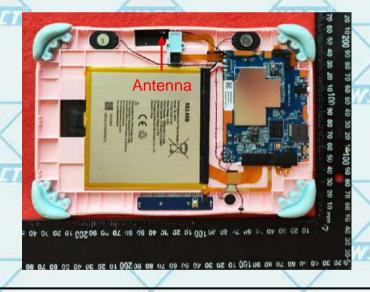
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit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

15.247(c) (1)(i) requirement:

(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 6dBi 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 6dBi.

E.U.T Antenna:

The WiFi antenna1.31dBi.













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6.2. Conducted Emission

6.2.1. Test Specification

5.2.1. Test Specification					
Test Requirement:	FCC Part15 C Section 15.207				
Test Method:	ANSI C63.10:2014				
Frequency Range:	150 kHz to 30 MHz				
Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto				
Limits:	Frequency range (MHz) Limit (dBuV) 0.15-0.5 66 to 56* 56 to 46* 0.5-5 56 46 5-30 60 50				
X)	Reference Plane				
Test Setup:	E.U.T AC power EMI Receiver Receiver				
NIFE NIE	Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m				
Test Mode:	Charging + transmitting with modulation				
17/57/07	1. The E.U.T is connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.				
Test Procedure:	2. The peripheral devices are also connected to the mapower through a LISN that provides a 50ohm/50u coupling impedance with 50ohm termination. (Pleas refer to the block diagram of the test setup ar photographs).				
Malion & Testino	3. Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10: 2014 on conducted measurement.				
Test Result:	PASS				
1777-1-1 (0)					

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6.2.2. Test data

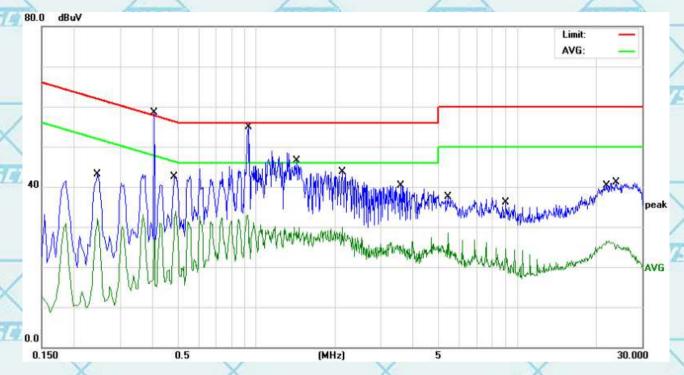
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Please refer to following diagram for individual

Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



					_			
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.2460	21.57	10.46	32.03	51.89	-19.86	AVG
2		0.4060	26.32	10.50	36.82	57.73	-20.91	QP
3		0.4900	23.29	10.52	33.81	46.17	-12.36	AVG
4		0.9260	22.33	10.55	32.88	46.00	-13.12	AVG
5		0.9300	26.44	10.55	36.99	56.00	-19.01	QP
6	*	1.4220	35.93	10.62	46.55	56.00	-9.45	QP
7		2.1300	19.21	10.71	29.92	46.00	-16.08	AVG
8		3.5740	29.62	10.73	40.35	56.00	-15.65	QP
9		5.4060	17.82	10.75	28.57	50.00	-21.43	AVG
10		9.0180	25.20	10.81	36.01	60.00	-23.99	QP
11		21.8779	15.47	11.08	26.55	50.00	-23.45	AVG
12		23.9380	30.00	11.11	41.11	60.00	-18.89	QP

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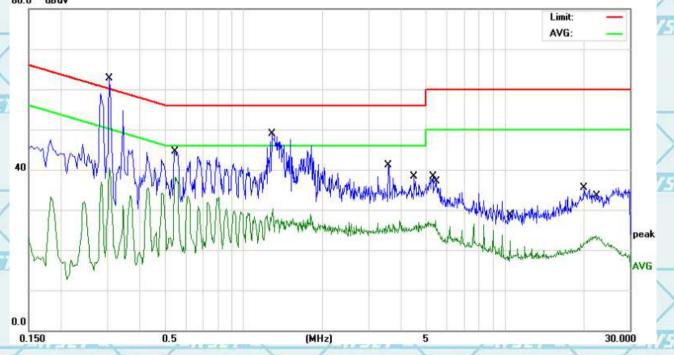




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						-		
No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.3060	29.31	10.47	39.78	60.08	-20.30	QP
2		0.3060	30.07	10.47	40.54	50.08	-9.54	AVG
3		0.5460	27.67	10.52	38.19	46.00	-7.81	AVG
4	*	1.2780	38.31	10.59	48.90	56.00	-7.10	QP
5		1.2900	19.69	10.60	30.29	46.00	-15.71	AVG
6		3.5780	30.44	10.73	41.17	56.00	-14.83	QP
7		4.4940	27.61	10.73	38.34	56.00	-17.66	QP
8		5.2819	27.51	10.75	38.26	60.00	-21.74	QP
9		5.4020	16.58	10.75	27.33	50.00	-22.67	AVG
10		10.4460	11.49	10.86	22.35	50.00	-27.65	AVG
11		19.9980	24.41	11.05	35.46	60.00	-24.54	QP
12		22.1860	12.33	11.08	23.41	50.00	-26.59	AVG

Note:

Freq. = Emission frequency in MHz

Reading level (dBµV) = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak AVG =average

* is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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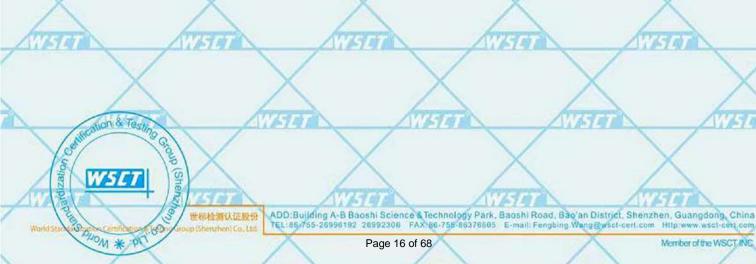


Report No.: WSCT-A2LA-R&E230300006A-Wi-Fi 6.2.3. Maximum Conducted (Average) Output Power

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6.2.4. Test Specification

-						
	Test Requirement:	FCC Part15 C Section 15.247 (b)(3)				
1	Test Method:	KDB 558074				
4	Limit:	30dBm				
7	Test Setup:	Spectrum Analyzer EUT				
	Test Mode:	Transmitting mode with modulation				
	Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. 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. Measure the conducted output power and record the results in the test report. 				
	Test Result:	PASS				











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6.2.5. Test Data

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		110170			- 1 A-1	-97. <u>000</u>
	Mode	Frequency	Total Power	Limit	Verdict	
3		(MHz)	(dBm)	(dBm)		
1	b	2412	14.33	30	Pass	
	b	2437	14.05	30	Pass	
Z	b	2462	14.13	30	Pass	
	g	2412	13.39	30	Pass	/
	g	2437	13.05	30	Pass	
	g	2462	13.23	30	Pass	
	n20	2412	13.26	30	Pass	
	n20	2437	12.89	30	Pass	時間
	n20	2462	13.13	30	Pass	
1	n40	2422	13.31	30	Pass	
1	n40	2437	13.24	30	Pass	
	n40	2452	13.23	30	Pass	
1	Total Marie	10.75	V ctr ell	111270	200	

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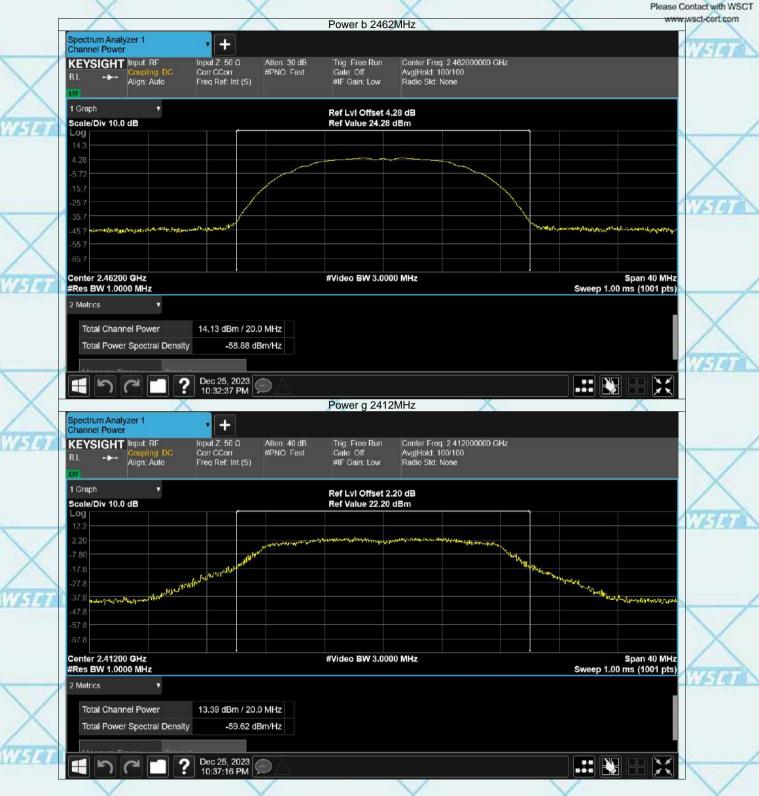




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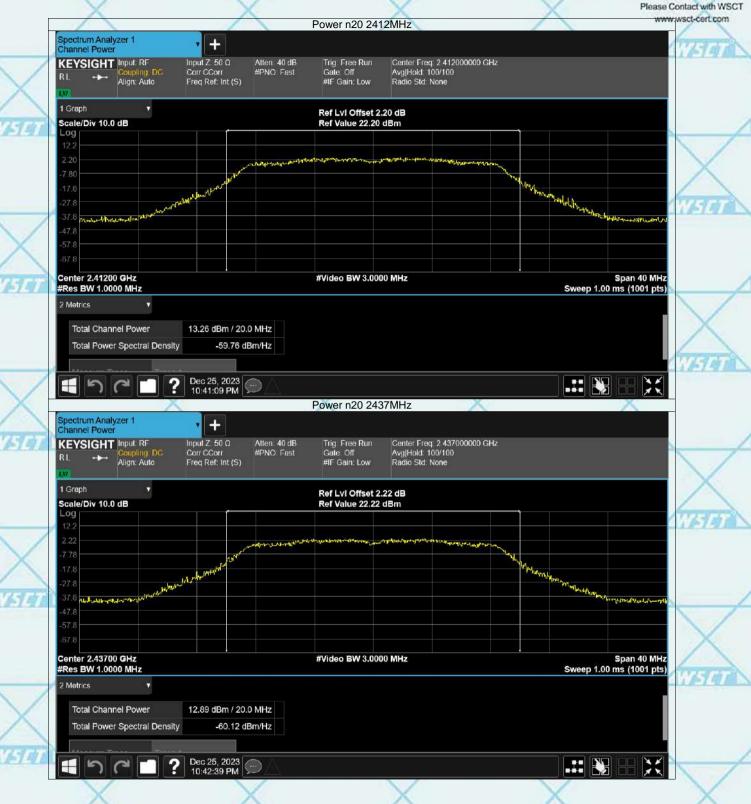


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6.3. Emission Bandwidth

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)				
Test Method:	KDB 558074	17619			
Limit:	>500kHz	X			
Test Setup:					
	Spectrum Analyzer EU	T			
Test Mode:	Transmitting mode with modulation	WHI			
	The testing follows FCC KDB Pub DTS D01 Meas. Guidance v04. Set to the maximum power setting EUT transmit continuously.	X			
Test Procedure:	3. 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. 4. Measure and record the results in	the test report.			
Test Result:	PASS				











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6.3.2. Test data(worst)

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	Mode	Frequency	-6 dB Bandwidth	Limit -6 dB	Verdict	
		(MHz)	(MHz)	Bandwidth (MHz)		
	b	2412	10.082	0.5	Pass	
7	b /	2437	10.045	0.5	Pass	
	b	2462	10.035	0.5	Pass	
	g	2412	15.019	0.5	Pass	
A	g	2437	15.278	0.5	Pass	
_	g	2462	11.885	0.5	Pass	
	n20	2412	13.885	0.5	Pass	
	n20	2437	14.087	0.5	Pass	
	n20	2462	15.694	0.5	Pass	
4	n40	2422	33.842	0.5	Pass	
	n40	2437	35.002	0.5	Pass	
	n40	2452	35.014	0.5	Pass	

	WHIT	1775707	AVI-SUT	WHAT	AVISTON
NIA.					
	N/FT#	77333	NVET 4	VIETRE	NET BE
N. 12-1					19.0
	WEIGH	Wister	WEIGH	WESTER	WEIGH
NVET					
	X	11/67/9	T/E/A	W45141	NIF-101
	Mication & Testing	1			- Comment

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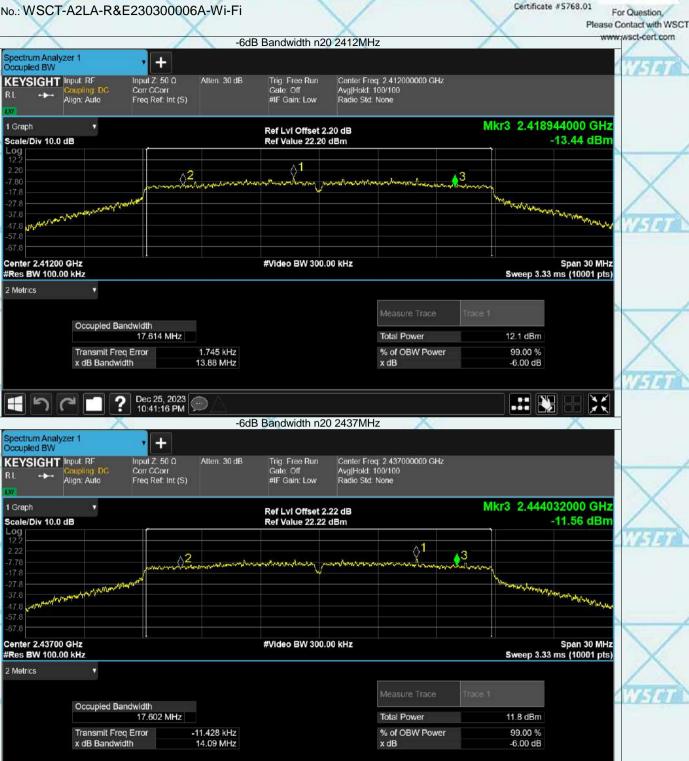








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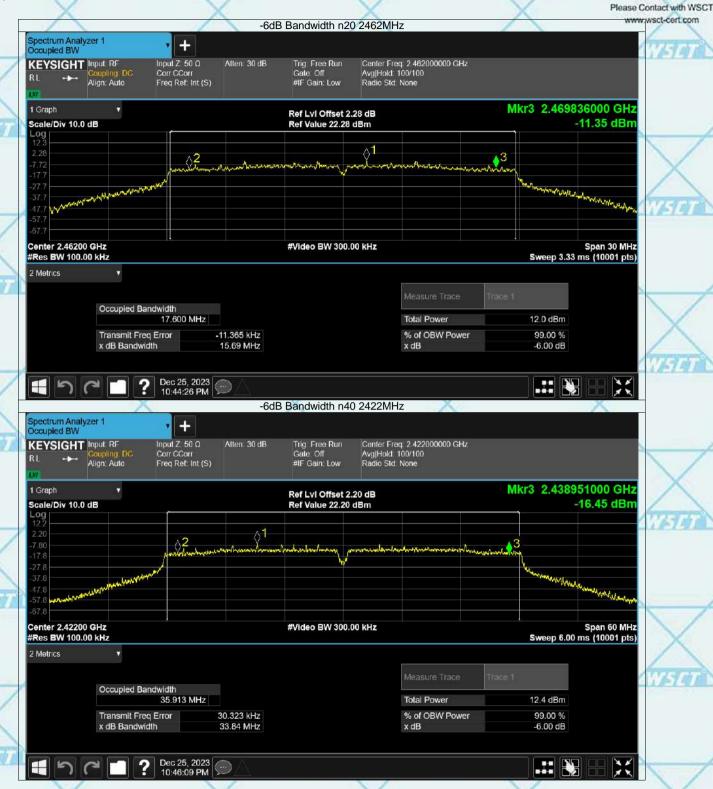


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6.4. Power Spectral Density

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (e)					
Test Method:	KDB 558074					
Limit:	The average power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.					
Test Setup:	Spectrum Analyzer EUT					
To at Marile	Spectrum Analyzer					
Test Mode:	Transmitting mode with modulation					
Transmitting mode with modulation 1. The testing follows Measurement Procedure 10.3 Method AVGPSD of FCC KDB Publication No.558074 D01 DTS Meas. Guidance v04 2. The RF output of EUT was connected to the spe analyzer by RF cable and attenuator. The path I was compensated to the results for each measurement. 3. Set to the maximum power setting and enable the EUT transmit continuously. 4. Make the measurement with the spectrum analyzer resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 10 kHz. Video bandwidth VBW ≥ 3 x RBW. Set the to at least 1.5 times the OBW. 5. Detector = RMS, Sweep time = auto couple. 6. Employ trace averaging (RMS) mode over a min of 100 traces. Use the peak marker function to determine the maximum power level. 6. Measure and record the results in the test report						
Test Result:	PASS					





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6.4.2. Test data(worst)

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	` ′					
175740	Mode	Frequency (MHz)	Total PSD (dBm/3kHz)	Limit (dBm/3kHz)	Verdict	TIFF OF
	b	2412	-12.02	8	Pass	
	b	2437	-11.92	8	Pass	
Anna A	b	2462	-12.22	8	Pass	Anna A
Z17498	g	2412	-18.54	8	Pass	116146
	g	2437	-18.01	8	Pass	
	g	2462	-18.95	8	Pass	
	n20	2412	-18.9	8	Pass	
AV-747	n20	2437	-19.48	8	Pass	AVETER
	n20	2462	-18.77	8	Pass	
X	n40	2422	-22.22	8	Pass	X
	n40	2437	-22.35	8	Pass	
AVITATION	n40	2452	-21.49	8 9	Pass	AVISTATI
7/3/8		7/65/8/8	77.63		XX.74	
1019		CIPIZEL	110		ZIF191	TIP I THE I
X	X		X	X		\times
		A				
ATTENDE	75147		7777	AVE TET	-	17771
X		X			X	\times
175141		WATER OF THE PARTY	176	a l	AVETA	17274
X	X		X	X		X
11/5/41	1757.07		14-7-11	AW5147		11/4/4
		//	1	/	/	
			/			
N/SIG A		AVSTA	WS	TT .	17374	AV-107
	\bigvee					
	\wedge		\wedge	\wedge		
AVETO	WSET		75741	AWZSET		176797
		1/	1	/		
X		X	/		X	X
son & Teau		17574	175	4	AVISTA	William
Catalica Sano C	1	The state of the s		1	and the standing	
Settlication & Testino Go	X		X	X		X

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6.5. Conducted Band Edge and Spurious Emission Measurement

6.5.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (d)	X
Test Method:	KDB558074	WATER OF
Limit:	In any 100 kHz bandwidth outside of the frequency band, the emissions which non-restricted bands shall be attenuated at 30dB relative to the maximum PSD level in RF conducted measurement and radiate which fall in the restricted bands, as define 15.205(a), must also comply with the radiate limits specified in Section 15.209(a).	fall in the tleast 20 dB / n 100 kHz by ed emissions led in Section
Test Setup:	Spectrum Analyzer EUT	
Test Mode:	Transmitting mode with modulation	
VISION NUST	 The testing follows FCC KDB Publication D01 DTS Meas. Guidance v04. The RF output of EUT was connected to analyzer by RF cable and attenuator. The was compensated to the results for each measurement. Set to the maximum power setting and e EUT transmit continuously. Unwanted Emissions measured in any 1 	the spectrum ne path loss h nable the
Test Procedure:	bandwidth outside of the authorized free shall be attenuated by at least 20 dB rel maximum in-band peak PSD level in 10 maximum peak conducted output powe used. If the transmitter complies with the power limits based on the use of RMS a a time interval, the attenuation required paragraph shall be 30 dB instead of 20	quency band lative to the 0 kHz when r procedure is e conducted veraging over under this
WETER	 15.247(d). 5. Measure and record the results in the tes 6. The RF fundamental frequency should b against the limit line in the operating free 	st report. e excluded



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6.5.2. Test Data

Band Edge

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Conducted RF Spurious Emission





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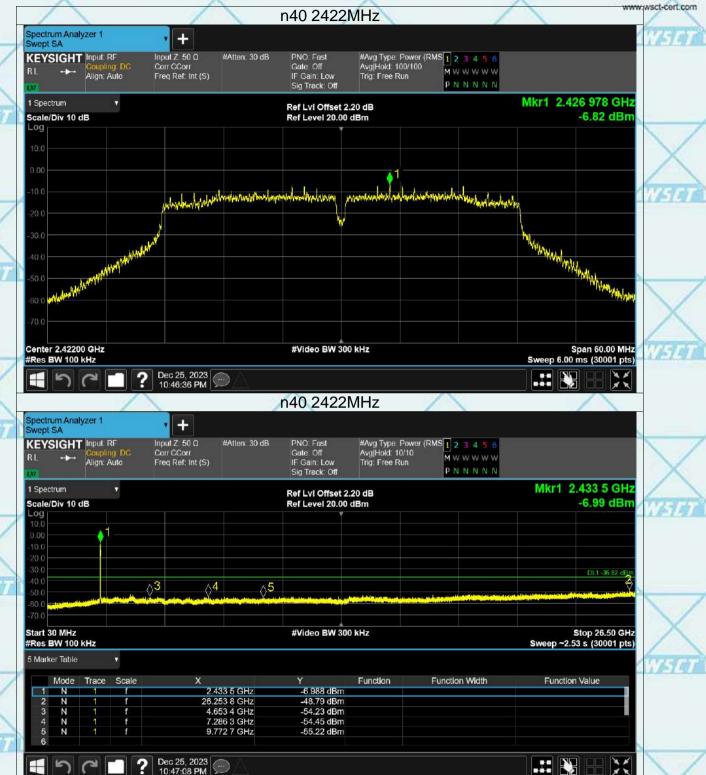




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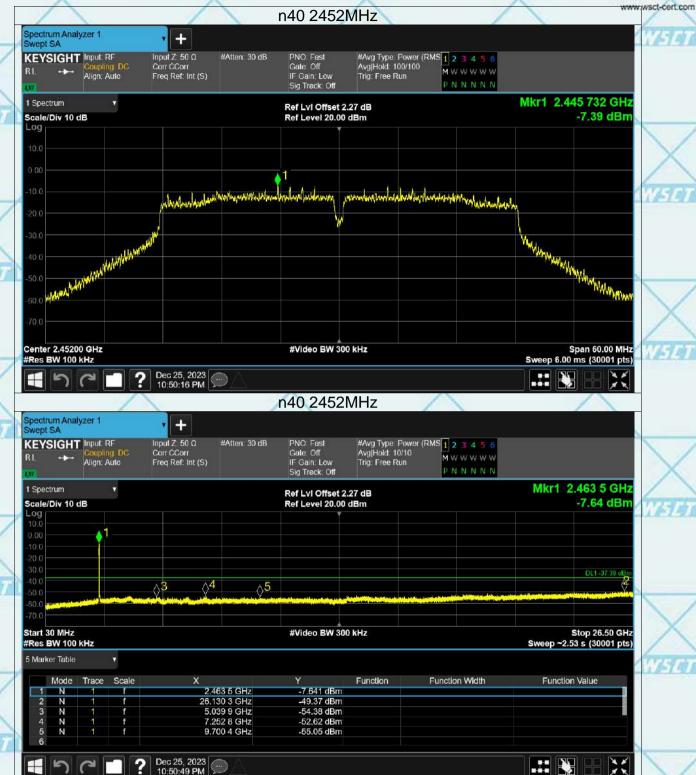




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6.6. Radiated Spurious Emission Measurement

6.6.1. Test Specification

.6.1. Test Specification			1/				
Test Requirement:	FCC Part15	C Sectio	n 15.209				
Test Method:	ANSI C63.10	0: 2014	17779	1	17294		
Frequency Range:	9 kHz to 25 (GHz		/			
Measurement Distance:	3 m						
Antenna Polarization:	Horizontal &	Vertical	-	177	4 6		
Operation mode:	Transmitting	mode wi	ith modulat	ion	V		
	Frequency	Detector	RBW	VBW	Remark		
11/5/97	9kHz- 150kHz	Quasi-pea	ak 200Hz	1kHz	Quasi-peak Value		
Receiver Setup:	150kHz- 30MHz	Quasi-pea	ak 9kHz	30kHz	Quasi-peak Value		
	30MHz-1GHz	Quasi-pea	ak 100KHz	300KHz	Quasi-peak Value		
	Above 1GHz	Peak	1MHz	3MHz	Peak Value		
AVET TO AVE	Above TOTIZ	Peak	1MHz	10Hz	Average Value		
\times	Frequen	су	Field Stre (microvolts	•	Measurement Distance (meters)		
	0.009-0.4	190	2400/F(I	,	300		
176746	0.490-1.7		24000/F(715	30		
	1.705-3	30	30		30		
X	30-88		100		3		
	88-216		150		3		
Limit:	216-96	2017 A W. C.	200	F17774	3		
	Above 9	60	500	The state of the s	3		
			$\overline{}$	Manager			
	Frequency		eld Strength	Measure Distan			
11510	(microvolts/meter) (meters)						
CIP13	Above 4CU	1	500	3	Average		
	Above 1GHz		5000	3	Peak		
	For radiated	emissior	s below 30)MHz			

Distance = 3m

Computer

Pre - Amplifier

Receiver

30MHz to 1GHz

W5ET

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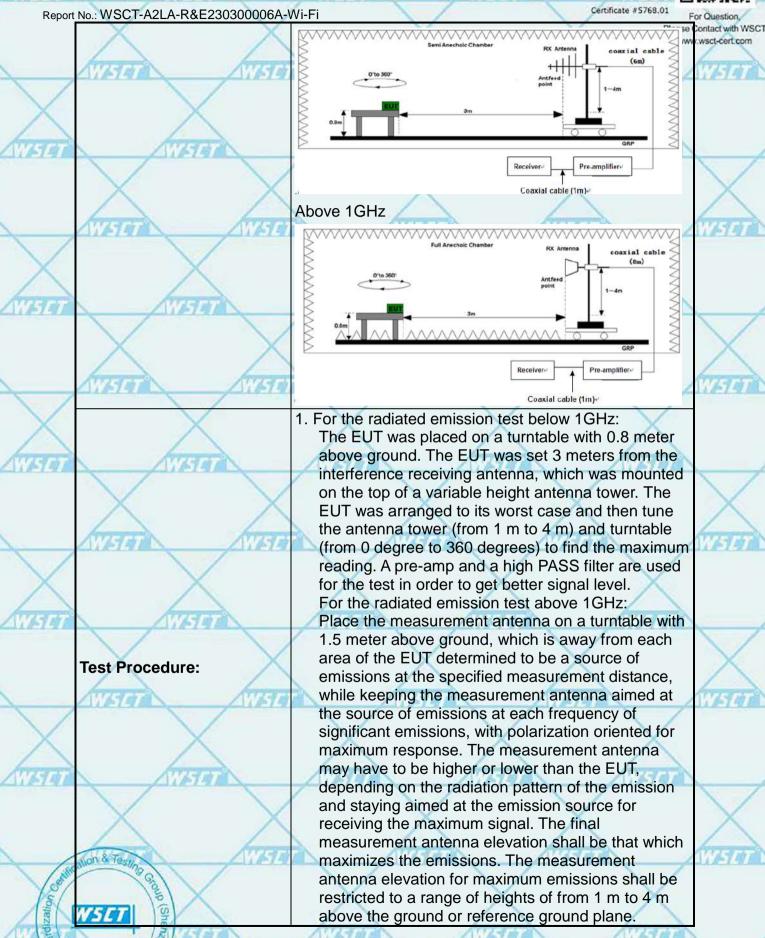
Test setup:

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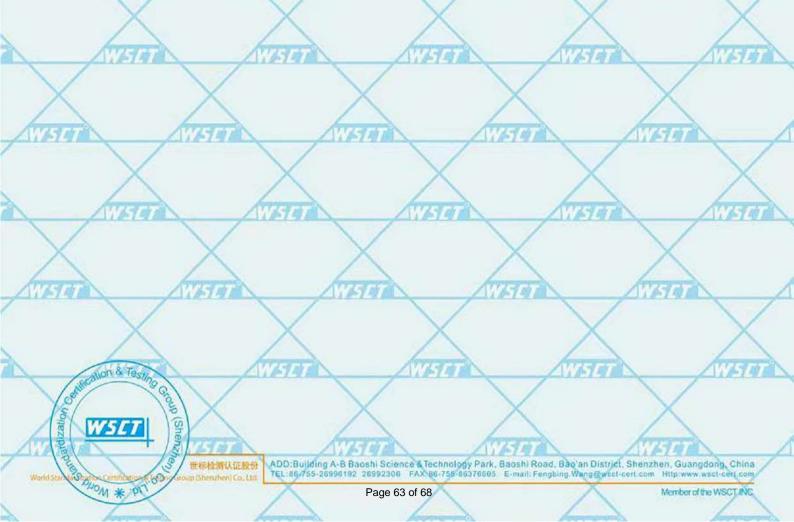








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X		ted Reading: Antenn Level - Preamp Fact		Cable Loss Hase	Contact with WSCT www.wsct-cert.com
N/414 N/414		easurement below 10		emission level	17/5/47
Wister	lower level v measi	EUT measured by the than the applicable like will be reported. Other urement will be repeated.	mit, the pe rwise, the	ak emission emission	
		tor and reported. e following spectrum	analyzer e	ettings:	/
A A A A A A A A A A A A A A A A A A A	(1) Spa	an shall wide enough iission being measur	to fully ca	_	
TIETA TIETA	(2) Se	t RBW=100 kHz for f	< 1 GHz; \	VBW ≥RBW;	I FIGURE
X	ma	veep = auto; Detector ix hold; t RBW = 1 MHz, VBV			
11679		peak measurement.	OIVII IZ I	011	/
		/erage measurement	:: VBW = 1	0 Hz, when	
	duty c	ycle is no less than 9	98 percent.	VBW ≥ 1/T,	
W-5101 W-510	when	duty cycle is less that	n 98 perce	ent where T is	NISTET
X	transn	inimum transmission nitter is on and is trar control level for the	nsmitting a	t its maximum	Till and the second
Test results:	PASS	AVI-FI	d'à	AVEUR	
				/	



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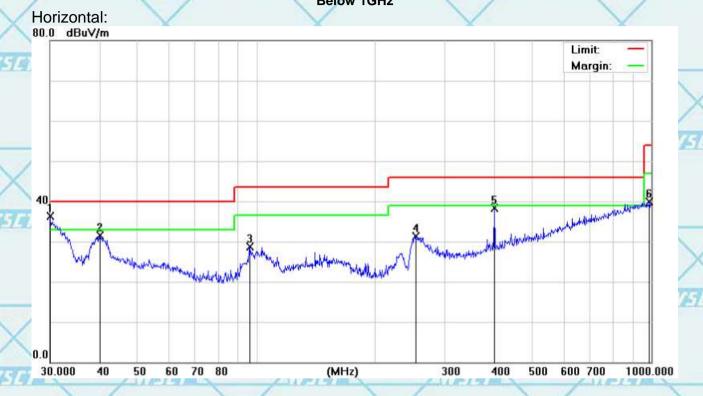
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6.6.2. Test Data(worst)

Please refer to following diagram for individual Below 1GHz



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	THE .	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector	
	1	*	30.0000	37.94	-1.73	36.21	40.00	-3.79	QP	1
	2	1	40.1347	32.08	-0.53	31.55	40.00	-8.45	QP	
_	3		96.0986	33.03	-4.30	28.73	43.50	-14.77	QP	
1	4	3	252.9482	32.91	-1.60	31.31	46.00	-14.69	QP	
2	4 5	7	400.4319	35.63	2.66	38.29	46.00	-7.71	QP	
1	6	(989.5355	25.54	14.35	39.89	54.00	-14.11	QP -	



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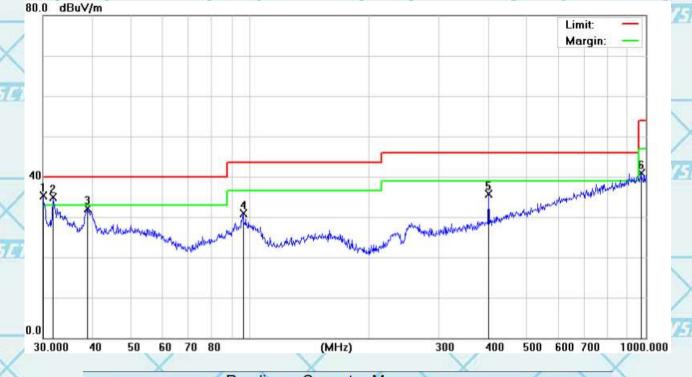


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Vertical:



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	141
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	*	30.0000	37.07	-1.73	35.34	40.00	-4.66	QP
6	2	A	31.7313	36.66	-1.73	34.93	40.00	-5.07	QP
	3		38.8878	32.76	-0.64	32.12	40.00	-7.88	QP
	4		96.0986	35.13	-4.30	30.83	43.50	-12.67	QP
	5	1	400.4319	33.08	2.66	35.74	46.00	-10.26	QP
	6	,	972.3374	26.87	14.08	40.95	54.00	-13.05	QP

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

2. Measurements were conducted in all three channels (high, middle, low), and the worst case Mode (Middle channel) was submitted only.



TOTAL NESTS

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Report No.: WSCT-A2LA-R&E230300006A-Wi-Fi

20MHz(802.11b/g/n)

Above 1GHz

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1	Eroa	Low channel: 2412MHz									
	Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)				
	(IVIITZ)	H/V	PK	AV	PK	AV	PK	AV			
	4824	/ V	65.00	42.48	74	54	-9.00	-11.52			
١	7236	W V T	68.58	43.97	74	54	-5.42	-10.03			
	4824	Ξ	62.11	42.03	74	54	-11.89	-11.97			
	7236	L	70.73	45.05	74	5/	-3 27	-8 95			

	Eroa	Middle channel: 2437MHz								
Freq. (MHz)		Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)			
	(IVITZ)	H/V	PK	AV	PK	AV	PK	AV		
	4874	V	64.52	43.28	74	54	-9.48	-10.72		
	7311	V	66.14	48.44	74	54	-7.86	-5.56		
1	4874	LEHRA	63.80	45.86	74	54	-10.20	-8.14		
	7311	Н	67.93	40.05	74	54	-6.07	-13.95		

	Eroa	High channel: 2462MHz								
y.	Freq. (MHz)	Ant.Pol	Emission L	Emission Level(dBuV) Limit 3m(dBuV/m)		(dBuV/m)	m) Over(dB)			
	(IVI□Z)	H/V	PK	AV	PK	AV	PK	AV		
	4924	V	67.55	50.16	74	54	-6.45	-3.84		
	7386	V	68.48	49.41	74	54	-5.52	-4.59		
Ì	4924	W.H.T	67.72	47.61	74	54	-6.28	-6.39		
	7386	Н	71.41	44.78	74	54	-2.59	-9.22		

Note:

- 1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
- 2. Emission Level= Reading Level+ Probe Factor +Cable Loss.

 Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

WETGE WETGE WETGE WETGE WETGE









Report No.: WSCT-A2LA-R&E230300006A-Wi-Fi **40MHz(802.11n)**

Certificate #5768.01

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Frog	Low channel: 2412MHz								
Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)			
(IVITIZ)	H/V	PK	AV	PK	AV	PK	AV		
4824	V	71.09	48.12	74	54	-2.91	-5.88		
7236	/ V	63.52	48.26	74	54	-10.48	-5.74		
4824	WSTT	65.68	50.57	74	54	-8.32	-3.43		
7236	Н	65.68	44.53	74	54	-8.32	-9.47		

	Гиом	Middle channel: 2437MHz							
	Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)		
	(IVITZ)	H/V	PK	AV	PK	AV	PK	AV	
	4874	V	62.13	51.52	74	54	-11.87	-2.48	
	7311	V	68.44	50.59	74	54	-5.56	-3.41	
K	4874	H-	69.00	46.21	74	54	-5.00	-7.79	
	7311	TEHRA	67.37	46.09	74	54	-6.63	-7.91	

	Frog	High channel: 2462MHz								
	Freq. (MHz)	Ant.Pol	Emission I	_evel(dBuV)	Limit 3m	(dBuV/m)	Ove	r(dB)		
yd.	(IVITZ)	H/V	PK	AV	PK	AV	PK	AV		
	4924	V	71.12	49.55	74	54	-2.88	-4.45		
	7386	V	71.20	51.54	74	54	-2.80	-2.46		
	4924	H	63.50	42.60	74	54	-10.50	-11.40		
N	7386	WATT	68.48	41.05	74	54	-5.52	-12.95		

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Report No.: WSCT-A2LA-R&E230300006A-Wi-Fi

Restricted Bands Requirements

Test result for 802.11b Mode (the worst case)

	11/47/41		116741		2 72741		1169	W B
1	Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
7		AWSET		Low Cha	nnel	AWST		176
	2390	67.36	-8.73	58.63	74	-15.37	H	PK
	2390	49.06	-8.73	40.33	54	-13.67	нХ	AV
	2390	68.07	-8.73	59.34	74	-14.66	V	PK
	2390	46.64	-8.73	37.91	54	-16.09	V	AV
	High Channel							
	2483.5	66.28	-8.17	58.11	74	-15.89	Н	PK
	2483.5	47.67	-8.17	39.50	54	-14.50	H	AV
	2483.5	65.80	-8.17	57.63	74	-16.37	V	PK
	2483.5	49.73	-8.17	41.56	54	-12.44	V	AV
ı		40.70	0.17	71.00	37	12.77		

WSIET WSIET



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