







For Question,
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TEST REPORT

FCC ID: 2AXYP-OSW-812

Product: Smart Watch

Model No.: OSW-812

Trade Mark: oraimo

Report No.: WSCT-A2LA-R&E240500025A-LE

Issued Date: 05 June 2024

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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TABLE OF CONTENTS

/1.	Test Certification	/			. 3
2.	Test Result Summary				. 4
3.	EUT Description	7	NY557	AWSET	. 5
4.	Genera Information	\sim		<i></i>	. 6×
	4.1. TEST ENVIRONMENT AND MODE				6
-/	4.2. DESCRIPTION OF SUPPORT UNITS	A1157.41	172	9 6	6
5.	Facilities and Accreditations				. 7
1	5.1. FACILITIES				7
4	5.2. ACCREDITATIONS	44	172794		7
	5.3. MEASUREMENT UNCERTAINTY				8
	5.4. MEASUREMENT INSTRUMENTS				9
6.	Test Results and Measureme	nt Data		47	10
	6.1. ANTENNA REQUIREMENT	/			. 10
/	6.2. CONDUCTED OUTPUT POWER				. 11
97	6.3. EMISSION BANDWIDTH		Water	ATTERNA	. 17
	6.4. POWER SPECTRAL DENSITY	/		<u> </u>	. 23
	6.5. CONDUCTED BAND EDGE AND SPURIOUS				. 29
/	6.6. CONDUCTED EMISSION				. 40
/	6.7. RADIATED SPURIOUS EMISSION MEASUR	EMENT			. 43



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1. Test Certification

Product: Smart Watch

Model No.: OSW-812

Trade Mark: oraimo

Applicant: ORAIMO TECHNOLOGY LIMITED

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

SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer: ORAIMO TECHNOLOGY LIMITED

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

SHAN MEI STREET FOTAN NT HONGKONG

Date of Test: 17 May 2024 to 04 June 2024

Applicable FCC CFR Title 47 Part 15 Subpart C Section 15.247

Standards: KDB 558074 D01 DTS Meas Guidance v04

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: Checked By: Mo Payun (Mo Peiyun)

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Approved By: (Liu Fuxin)

Date:

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2. Test Result Summary

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Requirement	CFR 47 Section	Result
Antenna requirement	§15.203/§15.247 (c)	PASS
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
Band Edge	1§5.247(d) §2.1051, §2.1057	PASS
Spurious Emission	§15.205/§15.209 §2.1053, §2.1057	PASS
	Antenna requirement Conducted Peak Output Power 6dB Emission Bandwidth Power Spectral Density Band Edge	Antenna requirement §15.203/§15.247 (c) Conducted Peak Output Power \$15.247 (b)(3) \$2.1046 6dB Emission Bandwidth \$15.247 (a)(2) \$2.1049 Power Spectral Density \$15.247 (e) Band Edge \$2.1051, §2.1057 Spurious Emission

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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3. EUT Description

Product:	Smart Watch
Model No.:	OSW-812
Trade Mark:	oraimo
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40 W541
Modulation Technology:	GFSK
Antenna Type:	Wire Antenna
Antenna Gain:	-8.3 dBi
Rechargeable Li-Polymer Battery:	Li-ion Battery : 532626V Rated Voltage: 3.8V Rated Capacity: 460mAh 1.748Wh
Remark:	N/A.

Operation Frequency each of channel

o por acre	portation i requestey each of charmer						
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz
AVIGA	2404MHz	W11_7	2424MHz	21	2444MHz	31	2464MHz
			\/		\/		
8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz
9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz
Remark:	Channel 0, 1	9 & 39 ha	ave been tes	sted.	11674		



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4. Genera Information

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%) with Fully-charged battery.

The sample was placed (0.1m 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.

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.

0	Equipment	Model No.	Serial No.	FCC ID	Trade Name
		1	1	1	/ /

Note:

- 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 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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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

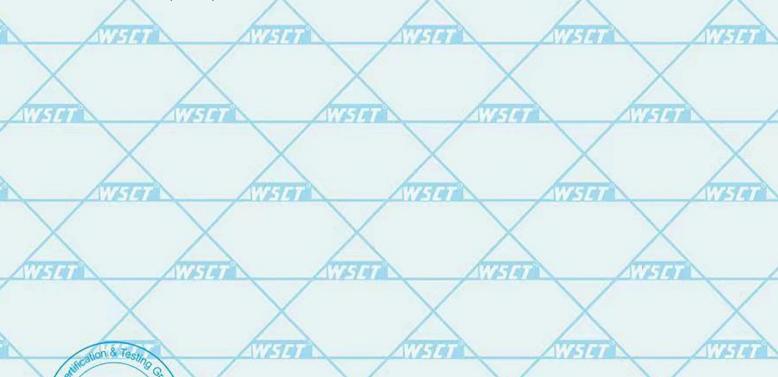
China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

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 %.

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2	No.	Item	MU
		Conducted Emission Test	±3.2dB
	2	RF power, conducted	±0.16dB
	3756	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

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	NAME OF EQUIPMENT	MANUFACTURER	MODEL	SERIAL NUMBER	Calibration Date	Calibration Due.	Z
(Test software		EZ-EMC	CON-03A	-	Χ-	
	Test software	/	MTS8310	A CONTRACTOR OF THE PARTY OF TH	- 4	777	
49	EMI Test Receiver	R&S	ESCI	100005	2023-11-05	2024-11-04	
	LISN	AFJ	LS16	16010222119	2023-11-05	2024-11-04	
	LISN(EUT)	Mestec	AN3016	04/10040	2023-11-05	2024-11-04	7
(Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	2023-11-05	2024-11-04	
~	Coaxial cable	Megalon	LMR400	N/A	2023-11-05	2024-11-04	
7	GPIB cable	Megalon	GPIB	N/A	2023-11-05	2024-11-04	
	Spectrum Analyzer	R&S	FSU	100114	2023-11-05	2024-11-04	
	Pre Amplifier	H.P.	HP8447E	2945A02715	2023-11-05	2024-11-04	Z
,	Pre-Amplifier	CDSI	PAP-1G18-38		2023-11-05	2024-11-04	
	Bi-log Antenna	SUNOL Sciences	JB3	A021907	2023-11-05	2024-11-04	
7	9*6*6 Anechoic	- 6	474	CATE	2023-11-05	2024-11-04	
	Horn Antenna	COMPLIANCE ENGINEERING	CE18000		2023-11-05	2024-11-04	
	Horn Antenna	SCHWARZBECK	BBHA9120D	9120D-631	2023-11-05	2024-11-04	1
	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	2023-11-05	2024-11-04	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	
7	Antenna Tower	ccs	N/A	N/A	N.C.R	N.C.R	
	RF cable	Murata	MXHQ87WA300 0	-	2023-11-05	2024-11-04	1
	Loop Antenna	EMCO	6502	00042960	2023-11-05	2024-11-04	2
,	Horn Antenna	SCHWARZBECK	BBHA 9170	1123	2023-11-05	2024-11-04	
(Power meter	Anritsu	ML2487A	6K00003613	2023-11-05	2024-11-04	
7	Power sensor	Anritsu	MX248XD	(123 B)	2023-11-05	2024-11-04	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	2023-11-05	2024-11-04	-











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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:

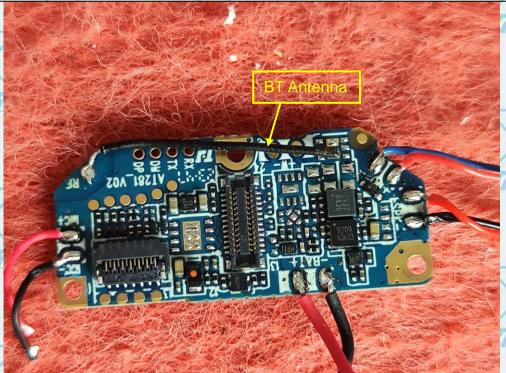
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 Bluetooth antenna is a Wire Antenna. it meets the standards, and the best case gain of the antenna is-8.3dBi.





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6.2. Conducted Output Power

6.2.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (b)(3)
Test Method:	KDB558074
Limit:	30dBm
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows the Measurement Procedure of FCC KDB No. 558074 DTS D01 Meas. Guidance v04. Set spectrum analyzer as following: a) Set the RBW ≥ DTS bandwidth. b) Set VBW ≥ 3 x RBW. c) Set span ≥ 3 x RBW d) Sweep time = auto couple. e) Detector = peak. f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level.
Test Result:	PASS

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6.2.2. Test Data

,				
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result
	Lowest	4.96	30.00	PASS
	Middle	5.69	30.00	PASS
	Highest	5.53	30.00	PASS

	ATTITUTE	ADDRESS AND ADDRES	7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 - 7 -		
BLE 2M					
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result	
	Lowest	4.99	30.00	PASS	
	Middle	5.72	30.00	PASS	
	Highest	5.58	30.00	PASS	

Test plots as follows:

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	\times		$\langle $	140	7,519,0
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	\times			1900	WESTER
NV-141	WATER	WETH	WATER	N/SI II	
				5141	William
sylication &	100 C				

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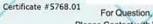


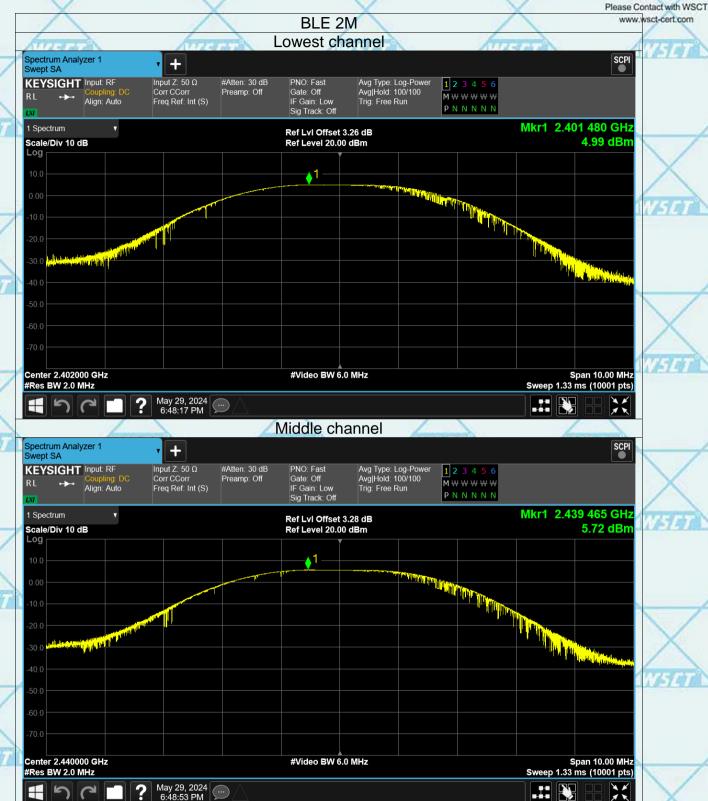






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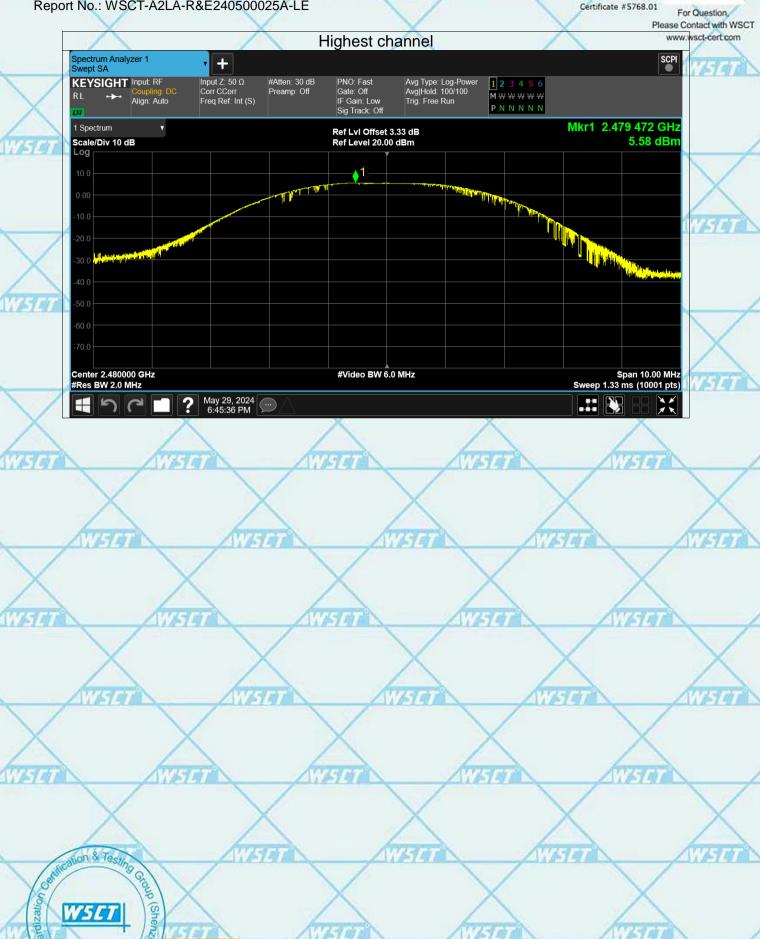
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6.3. Emission Bandwidth

6.3.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)
Test Method:	KDB558074
Limit:	>500kHz
Test Setup:	
	Spectrum Analyzer EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows FCC KDB Publication No. 558074 DTS D01 Meas. Guidance v04. 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.
Test Result:	4. Measure and record the results in the test report. PASS



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6.3.2. Test data

BLE	11	M
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				47.00
	Test channel	6dB Emission Bandwidth (kHz)		
	rest chamilei	BT LE mode	Limit	Result
0	Lowest	0.501	>500k	NESTE
	Middle	0.506	>500k	PASS
	Highest	0.503	>500k	

BLE 2M

Toot channel	6dB Emission Bandwidth (kHz)			
Test channel	BT LE mode	Limit	Result	
Lowest	0.83	>500k	WSET	
Middle	0.846	>500k	PASS	
Highest	0.665	>500k		

Test plots as follows:

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WEIGH	Wester	WHITE	WSIG	WSIA	
	\times		\times	MISTRI	NI STEEL
WESTER	177-7-9	Wester	W5197	WATER B	
	STOP AVI	70 AV	5101	76-141	AVEGO
NV-141	WISTON	WESTER	NV-51-41	WEIGH	
incation &	\times		X	WSET	NIE III
iffeon	- Maria				

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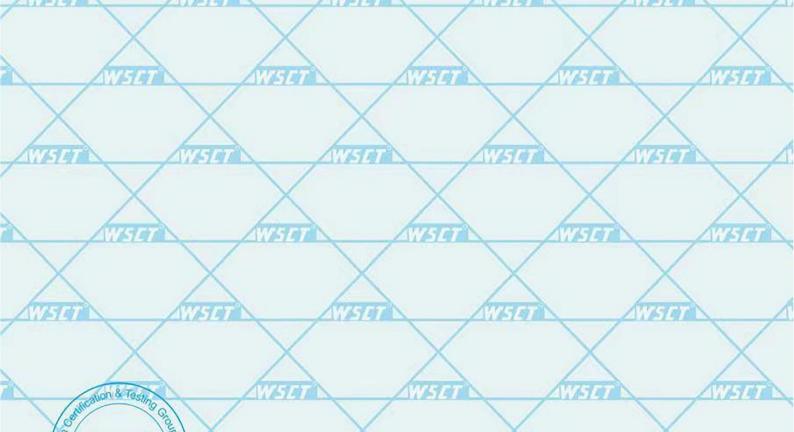
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Certificate #5768.01 For Question, Please Contact with WSCT www.wsct-cert.com Highest channel Spectrum Analyzer 1 Occupied BW SCPI + Input Z: 50 Ω Corr CCorr Center Freq: 2.480000000 GHz Avg|Hold: 100/100 Radio Std: None Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off KEYSIGHT Input: RF Align: Auto Freq Ref: Int (S) #IF Gain: Low 1 Graph Mkr3 2.480273000 GHz Ref LvI Offset 3.33 dB Ref Value 23.33 dBm -8.10 dBm Scale/Div 10.0 dB Center 2.480000 GHz #Res BW 100.00 kHz Span 2 MHz Sweep 1.33 ms (10001 pts) #Video BW 300.00 kHz 2 Metrics Measure Trace Trace 1 Occupied Bandwidth 1.0341 MHz 8.49 dBm Total Power % of OBW Power 99.00 % Transmit Freq Error 21.236 kHz x dB Bandwidth -6.00 dB 502.7 kHz x dB



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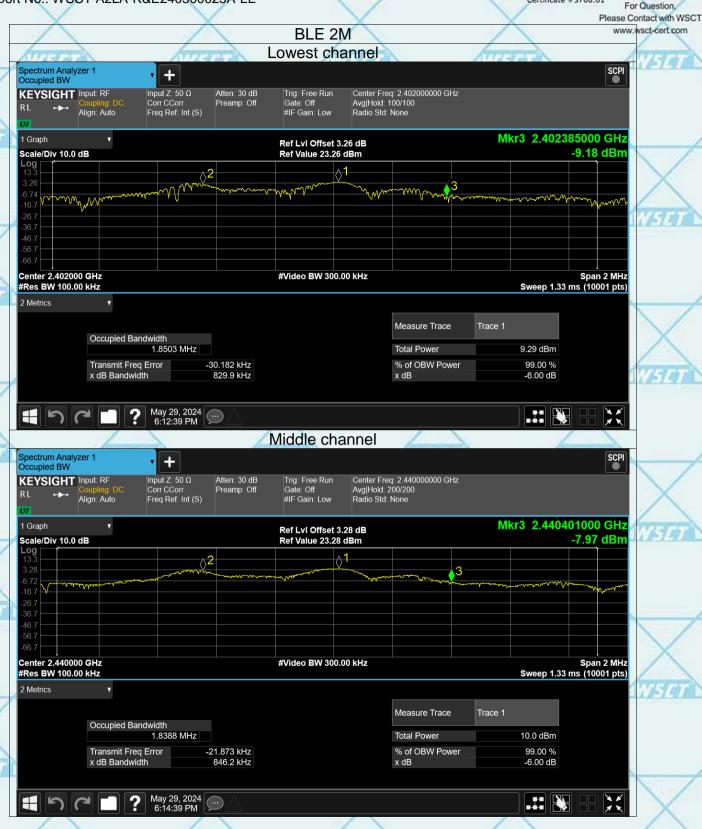






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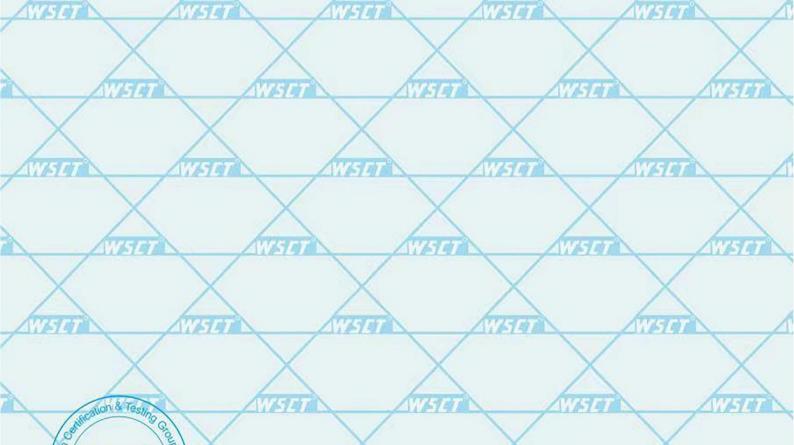
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For Question, Please Contact with WSCT www.wsct-cert.com Highest channel Spectrum Analyzer 1 Occupied BW SCPI + Input Z: 50 Ω Corr CCorr Center Freq: 2.480000000 GHz Avg|Hold: 100/100 Radio Std: None Atten: 30 dB Preamp: Off Trig: Free Run Gate: Off KEYSIGHT Input: RF Align: Auto Freq Ref: Int (S) #IF Gain: Low Mkr3 2.480302000 GHz 1 Graph Ref LvI Offset 3.33 dB Ref Value 23.33 dBm -3.83 dBm Scale/Div 10.0 dB **3** Center 2.480000 GHz #Res BW 100.00 kHz Span 2 MHz Sweep 1.33 ms (10001 pts) #Video BW 300.00 kHz 2 Metrics Measure Trace Trace 1 Occupied Bandwidth 1.8350 MHz 8.39 dBm Total Power -31.087 kHz % of OBW Power Transmit Freq Error 99.00 % x dB Bandwidth -6.00 dB 665 4 kHz x dB











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6.4. Power Spectral Density

6.4.1. Test Specification

CIP14B	21 F 19 M 2 1 F 19 M 2
Test Requirement:	FCC Part15 C Section 15.247 (e)
Test Method:	KDB558074
Limit:	The peak power spectral density shall not be greater than 8dBm in any 3kHz band at any time interval of continuous transmission.
Test Setup:	Construer Analysis EUT
Test Mode:	Refer to item 4.1
Test Procedure:	 The testing follows Measurement Procedure 10.2 Method PKPSD of FCC KDB Publication No.558074 D01 DTS 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. Make the measurement with the spectrum analyzer's resolution bandwidth (RBW): 3 kHz ≤ RBW ≤ 100 kHz. Video bandwidth VBW ≥ 3 x RBW. In order to make an accurate measurement, set the span to 1.5 times DTS Channel Bandwidth. (6dB BW) Detector = peak, Sweep time = auto couple, Trace mode = max hold, Allow trace to fully stabilize. Use the peak marker function to determine the maximum power level. Measure and record the results in the test report.
Test Result:	PASS



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6.4.2. Test data

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Test channel	Power Spectral Density (dBm/3kHz)		
rest charmer	BLE 1M	Limit	Result
Lowest	-4.94	8 dBm/3kHz	
Middle	-4.64	8 dBm/3kHz	PASS
Highest	-4.38	8 dBm/3kHz	

Toot about al	Power Spectral Density (dBm/3kHz)		
Test channel	BLE 2M	Limit	Result
Lowest	-5.38	8 dBm/3kHz	
Middle	-5.1	8 dBm/3kHz	PASS
Highest	-4.83	8 dBm/3kHz	

Test plots as follows:

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Aiffica	100				

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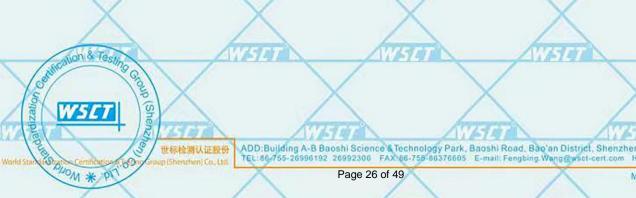




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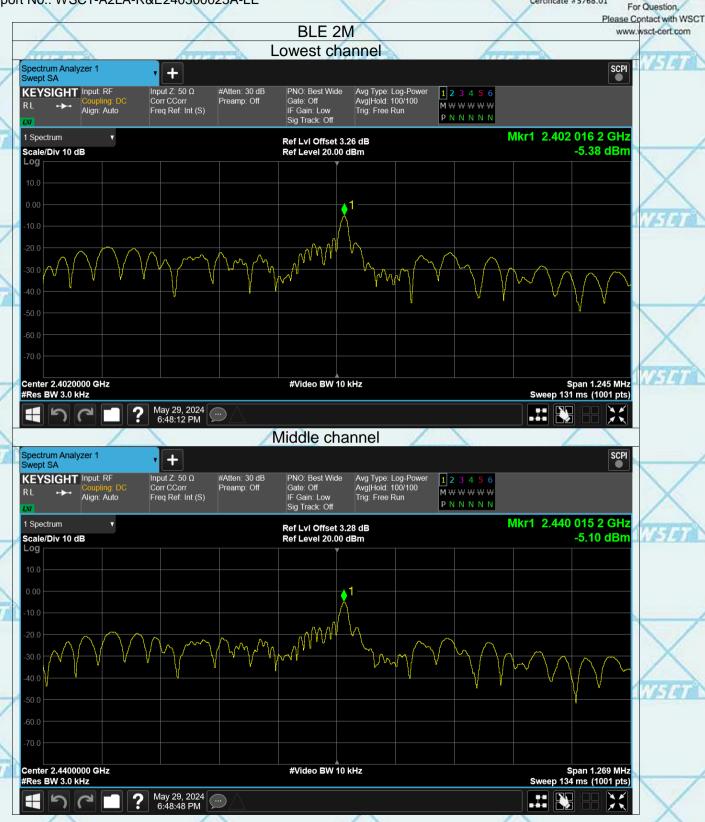






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6.5. Conducted Band Edge and Spurious Emission Measurement

6.5.1. Test Specification

5.1. rest specification	F198 IF198 IF198
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:	Refer to item 4.1
Test Procedure:	 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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6.5.2. Test Data





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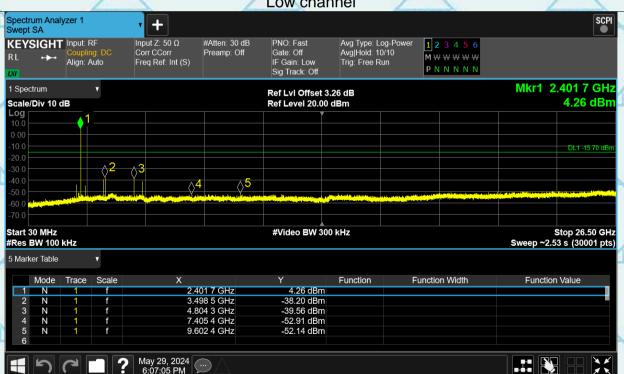


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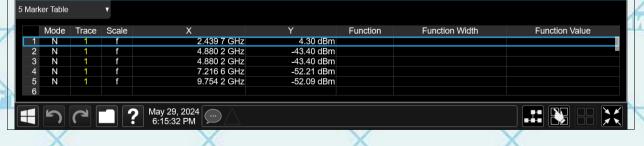




Report No.: WSCT-A2LA-R&E240500025A-LE



Certificate #5768.01 For Question, Please Contact with WSCT www.wsct-cert.com Middle channel SCPI Spectrum Analyzer 1 + Input Z: 50 Ω #Atten: 30 dB Preamp: Off PNO: Best Wide Gate: Off Avg Type: Log-Power Avg|Hold: 100/100 KEYSIGHT Input: RF 1 2 3 4 5 6 Corr CCorr ____ M ₩ ₩ ₩ ₩ IF Gain: Low Sig Track: Off Align: Auto Freq Ref: Int (S) Trig: Free Run 1 Spectrum Mkr1 2.440 018 GHz Ref LvI Offset 3.28 dB Ref Level 20.00 dBm Scale/Div 10 dB 4.33 dBm Center 2.440000 GHz #Res BW 100 kHz Span 3.000 MHz Sweep 1.00 ms (1001 pts) #Video BW 300 kHz May 29, 2024 6:15:01 PM ⊞ Middle channel Spectrum Analyzer 1 Swept SA SCPI + Avg Type: Log-Power Avg|Hold: 10/10 Input Z: 50 Ω #Atten: 30 dB PNO: Fast KEYSIGHT Input: RF Corr CCorr Freq Ref: Int (S) Preamp: Off Gate: Off IF Gain: Low Sig Track: Off M ₩ ₩ ₩ ₩ Align: Auto Trig: Free Run PNNNNN Mkr1 2.439 7 GHz 1 Spectrum Ref LvI Offset 3.28 dB 4.30 dBm Scale/Div 10 dB Ref Level 20.00 dBm **∂**5 \wedge^4 Start 30 MHz #Video BW 300 kHz Stop 26.50 GHz #Res BW 100 kHz Sweep ~2.53 s (30001 pts)













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Conducted Emission 6.6.

7	6.6.1. Test Specification	1519						
	Test Requirement:	FCC Part15 C Section 15.207						
	Test Method:	ANSI C63.10:2014 W5						
	Frequency Range:	150 kHz to 30 MHz						
	Receiver setup:	RBW=9 kHz, VBW=30 kHz, Sweep time=auto						
7	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						
7	WETO	40cm 80cm LISN Filter — AC power						
	Test Setup:	Test table/Insulation plane Remark E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m						
	Test Mode:	Refer to item 4.1 1. The E.U.T is connected to an adapter through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment.						
	Test Procedure:	 The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum 						
	ation & Testing	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.						
dir.	Test Result:	PASS						

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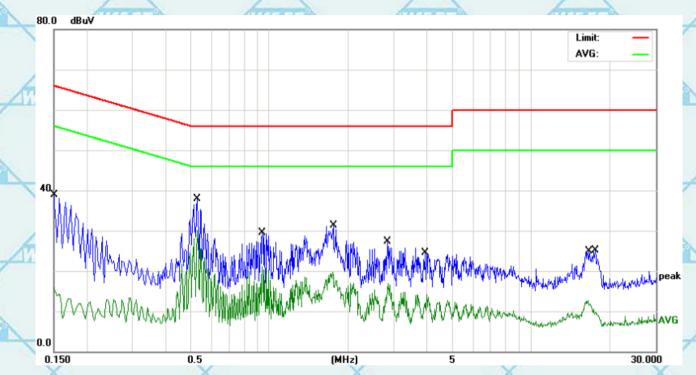
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6.6.2. Test data

Please refer to following diagram for individual

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



									No.
	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
1			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1500	28.59	10.41	39.00	65.99	-26.99	QP
1	2		0.1500	5.57	10.41	15.98	55.99	-40.01	AVG
ľ	3		0.5299	27.44	10.47	37.91	56.00	-18.09	QP
	4	*	0.5299	19.71	10.47	30.18	46.00	-15.82	AVG
	5		0.9420	10.52	10.51	21.03	46.00	-24.97	AVG
	6		1.7460	9.03	10.62	19.65	46.00	-26.35	AVG
1	7		1.7580	20.75	10.62	31.37	56.00	-24.63	QP
	8		2.8380	16.53	10.67	27.20	56.00	-28.80	QP
/	9		2.8420	6.31	10.67	16.98	46.00	-29.02	AVG
Ľ,	10		3.9420	13.82	10.68	24.50	56.00	-31.50	QP
	11		16.4980	1.70	11.06	12.76	50.00	-37.24	AVG
	12		17.6220	13.99	11.05	25.04	60.00	-34.96	QP

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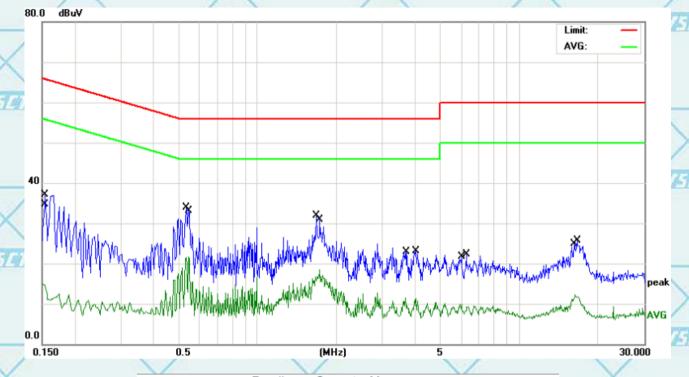






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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
1		MHz	dBuV	dB	dBuV	dBuV	dB	Detector
1		0.1500	4.53	10.41	14.94	55.99	-41.05	AVG
2		0.1539	26.63	10.41	37.04	65.78	-28.74	QP
3	*	0.5340	23.51	10.47	33.98	56.00	-22.02	QP
4		0.5460	11.22	10.47	21.69	46.00	-24.31	AVG
5		1.6740	21.27	10.61	31.88	56.00	-24.12	QP
6		1.7300	7.96	10.62	18.58	46.00	-27.42	AVG
7		3.6780	0.83	10.68	11.51	46.00	-34.49	AVG
8		4.0380	12.39	10.68	23.07	56.00	-32.93	QP
9		6.0020	-0.73	10.71	9.98	50.00	-40.02	AVG
10		6.2700	11.60	10.72	22.32	60.00	-37.68	QP
11		16.3420	1.23	11.06	12.29	50.00	-37.71	AVG
12		16.6259	14.56	11.06	25.62	60.00	-34.38	QP

Note:

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Freq. = Emission frequency in MHz

Reading level $(dB\mu V) = Receiver reading$

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

neaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.

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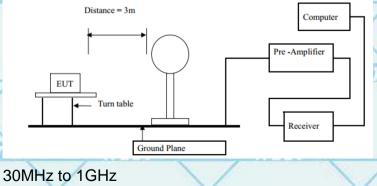
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6.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification				JANE L		
Test Requirement:	FCC Part15	C Section	15.209		X	
Test Method:	ANSI C63.10	0:2014	17/5/10		17674	1
Frequency Range:	9 kHz to 25	GHz		1	/	
Measurement Distance:	3 m					
Antenna Polarization:	Horizontal &	Vertical		177	77	/
Operation mode:	Refer to item	4.1				
	Frequency	Detector	RBW	VBW	Remark	
W5197	9kHz- 150kHz	Quasi-pea		1kHz	Quasi-peak Valu	
Receiver Setup:	150kHz- 30MHz	Quasi-pea	k 9kHz	30kHz	Quasi-peak Valu	ue
X	30MHz-1GHz	Quasi-pea	k 100KHz	300KHz	Quasi-peak Valu	ue
	Above 1GHz	Peak	1MHz	3MHz	Peak Value	
AV259	7.0000 10112	Peak	1MHz	10Hz	Average Value)
\times	Frequer	псу	Field Stre	•	Measurement Distance (meters	
	0.009-0.4		2400/F(k	(Hz)	300	
17674	0.490-1.7		24000/F(KHz)	30	
	1.705-3		30		30	
X	30-88 88-210		100	X	3	
Limit:	216-96		150 200		3	
AVE AVE	Above 9		500	1769	3	
			/		\ /	1
	Frequency		d Strength ovolts/meter)	Measure Distan (meter	ce Detector	r
11674	Alexand AOU		500	3	Average	,
	Above 1GH	Z	5000	3	Peak	10.1
VIETE VIET	For radiated	emission	s below 30	MHz		
		istance = 3m			Computer	/
X		 /		Dec	-Amplifier	

Test setup:



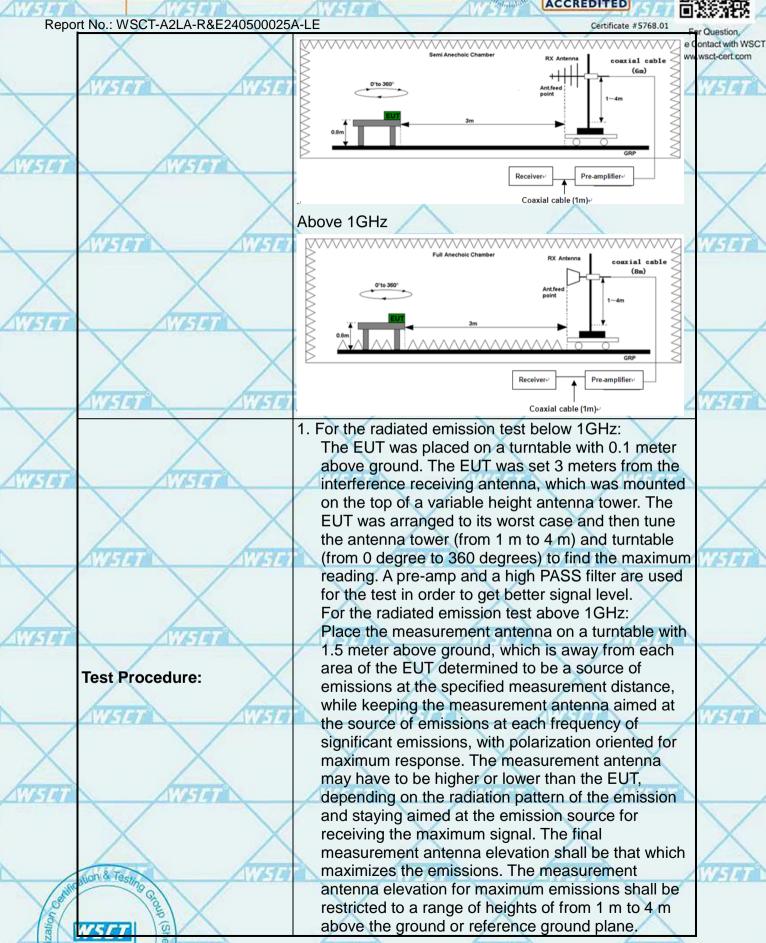
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Repo	rt No.: WSCT-A2LA-R&E240500025	A-LE Certificate #5768.01 Fer Question	0/
	X	2. Corrected Reading: Antenna Factor + Cable Loss Hase Contact with	
		Read Level - Preamp Factor = Level	com
	AUZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZZ	3. For measurement below 1GHz, If the emission level	TR
	TIPINE THE STREET	of the EUT measured by the peak detector is 3 dB	H ARL
		lower than the applicable limit, the peak emission	
		level will be reported. Otherwise, the emission	
		measurement will be repeated using the quasi-peak	- 4
ATA19	1679	detector and reported.	-/-
		4. Use the following spectrum analyzer settings:	/
	X	(1) Span shall wide enough to fully capture the	
		emission being measured;	
	AVETOTI AVETOT	(2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW;	
		Sweep = auto; Detector function = peak; Trace =	
X	X	max hold;	
		(3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz	3
AVSET	17674	for peak measurement.	
		For average measurement: VBW = 10 Hz, when	
		duty cycle is no less than 98 percent. VBW ≥ 1/T,	
	ATTENDED ATTENDED	when duty cycle is less than 98 percent where T is	1
	DIF13	the minimum transmission duration over which the	7.4
		transmitter is on and is transmitting at its maximum	
		power control level for the tested mode of operation.	
AVESTA .	Test mode:	Refer to section 4.1 for details	/
A	Test results:	PASS	/
	Note: Freq. = Emission frequency in MHz	XXX	
	Reading level (dBµV) = Receiver reading		7
	Corr. Factor (dB) = Attenuation factor + 0	Cable loss	7
	Level (dRul/) - Reading level (dRul/) + ('orr Factor (dR)	

Level (dB μ V) = Reading level (dB μ V) + Corr. Factor (dB) Limit (dB μ V) = Limit stated in standard Margin (dB) = Level (dB μ V) - Limits (dB μ V)



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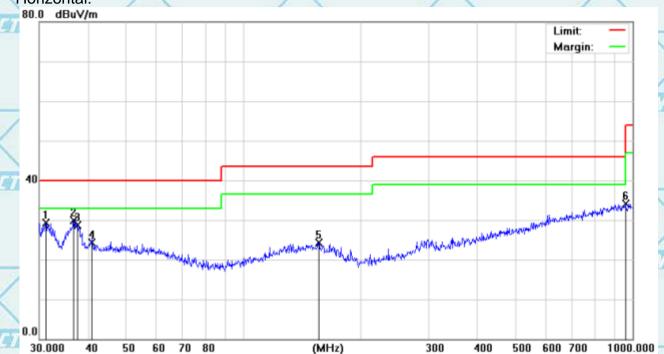
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6.7.2. Test Data

Please refer to following diagram for individual

Below 1GHz (the worst case)

Horizontal:



No	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	141
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
-1		31.1798	31.88	-2.57	29.31	40.00	-10.69	QP
2	XII	36.7662	31.80	-1.90	29.90	40.00	-10.10	QP
/3		37.6798	30.55	-1.76	28.79	40.00	-11.21	QP
4		40.9881	25.82	-1.55	24.27	40.00	-15.73	QP
4.5	1	156.4578	26.04	-1.68	24.36	43.50	-19.14	QP
6	,	958.7943	25.99	8.20	34.19	46.00	-11.81	QP

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No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	141
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	1	31.0706	35.52	-2.57	32.95	40.00	-7.05	QP
2	1	32.0667	34.93	-2.54	32.39	40.00	-7.61	QP
3	*	37.2855	36.71	-1.83	34.88	40.00	-5.12	QP
4		126.3286	29.16	-3.04	26.12	43.50	-17.38	QP
5	1	857.0247	27.44	6.89	34.33	46.00	-11.67	QP
6	1	962.1623	26.55	8.22	34.77	54.00	-19.23	QP

(MHz)

300

400

500 600 700

1000.000

Note1:

30.000

40

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

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

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)

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Above 1GHz

	Erog	Low channel: 2402MHz									
4	Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)				
	(IVITZ)	H/V	PK	AV	PK	AV	PK	AV			
	4804	V	59.37	41.04	74	54	-14.63	-12.96			
×	7206	V	58.90	39.55	74	54	-15.10	-14.45			
H	4804	TETAME	59.85	40.89	74	54	-14.15	-13.11			
	7206	Н	58.93	39.93	74	54	-15.07	-14.07			

	Eroa	Middle channel: 2440MHz									
4	Freq. (MHz)	Ant.Pol	Emission Level(dBuV)		Limit 3m(dBuV/m)		Over(dB)				
	(IVIIIZ)	H/V	PK	AV	PK	AV	PK	AV			
	4880	V	59.58	39.75	74	54	-14.42	-14.25			
	7320	V	58.88	39.42	74	54	-15.12	-14.58			
	4880	WSHT	58.46	40.05	74	54	-15.54	-13.95			
	7320	H	58.98	39.98	74	54	-15.02	-14.02			

		V								
Erog		High channel: 2480 MHz								
Freq. (MHz)	Ant.Pol	Emission Level(dBuV) Limit 3m(dBuV/m)		Over(dB)						
(IVITIZ)	H/V	PK	AV	PK	AV	PK	AV			
4960	V	60.14	41.18	74	54	-13.86	-12.82			
7440	V	59.79	39.09	74	54	-14.21	-14.91			
4960		58.43	40.87	74	54	-15.57	-13.13			
7440	TEH A	58.05	39.05	74	54	-15.95	-14.95			

Note:

- 1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.
- 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.

NI-14	WSI	WSIA	W-19	AVE	
		X	X	X	X
ATTES	The state of the s	2191	AVE 191	WSIAT	AWSTOT
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Report No.: WSCT-A2LA-R&E240500025A-LE

Certificate #5768.01

For Question,
Please Contact with WSCT
www.wsct-cert.com

Restricted Bands Requirements

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SON * PIT

Test result for GFSK Mode (the worst case)

	est result i	OF GESK W	oue (the	worst case	MEET		AULT	nt all
F	Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
3	X	ATTARA		Low Cha	nnel	ATZTE	1	11/23
	2390	69.43	-8.73	60.70	74	-13.30	7	PK
	2390	48.15	-8.73	39.42	54	-14.58	нХ	AV
	2390	69.38	-8.73	60.65	74	-13.35	V	PK
Z	2390	46.74	-8.73	38.01	54	-15.99	VA	AV
				High Cha	nnel			
1	2483.5	67.02	-8.17	58.85	74	-15.15	Н	PK
7	2483.5	45.88	-8.17	37.71	54	-16.29	Н	AV
	2483.5	65.50	-8.17	57.33	74	-16.67	V	PK
	2483.5	46.23	-8.17	38.06	54	-15.94	V	AV

WEIGH	*****END OF REPORT	***** W-51-01	
WEIGH	WEIGH WEIGH	WEIGH	N/E-14 d
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	WEIGH	WAST OF THE PARTY	Wister
WETER	X	WEST OF THE STATE	
stealion & Testing	WSI	NYSIAT	Wister

Page 49 of 49

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