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TEST REPORT

FCC ID: 2AXYP-OSW-802N

Product: Smart Watch

Model No.: OSW-802N

Trade Mark: oraimo

Report No.: WSCT-A2LA-R&E240200005A-LE

Issued Date: 08 March 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

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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.

WSCT Charles (Sherry)

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Certificate #5768.01

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Report No.: WSCT-A2LA-R&E240200005A-LE

1. Test Certification

Product:

Smart Watch

Model No.:

OSW-802N

Trade Mark:

oraimo

Applicant:

ORAIMO TECHNOLOGY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE

19-25 SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer:

Jiangsu Saibo Yuhua Technology Co.,Ltd

Building 8(D) of Yancheng High-Tech Zone Intelligent

Terminal Industrial Park, P.R.China.

Date of Test:

27 February 2024 to 08 March 2024

Applicable

FCC CFR Title 47 Part 15 Subpart C Section 15.247

Standards:

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group (Shenzhen) Co., Ltd.

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.

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Approved By:	11		Date: <u>0</u> 8	March	201 Page 11 15 15 15 15 15 15 15 15 15 15 15 15
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2. Test Result Summary

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7	Requirement	CFR 47 Section	Result
	Antenna requirement	§15.203/§15.247 (c)	PASS
0	AC Power Line Conducted Emission	§15,207	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

Note:

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- 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 Name:	Smart Watch
Model:	OSW-802N
Trade Mark:	oraimo
Operation Frequency:	2402MHz~2480MHz
Channel Separation:	2MHz
Number of Channel:	40
Modulation Technology:	GFSK
Antenna Type:	PIFA antenna
Antenna Gain:	-2.17dBi
Operating Voltage	Li-ion Battery: 552123V Voltage: 3.8V Rated Capacity: 300mAh
	Limited Charge Voltage: 4.35V
Remark:	N/A.

Operation Frequency each of channel

operation i requestey caem o				Citatilici					
	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	
	0	2402MHz	10	2422MHz	20	2442MHz	30	2462MHz	
7	1	2404MHz	11	2424MHz	21	2444MHz	31	2464MHz	
		X		X		X		X	
5	8	2418MHz	18	2438MHz	28	2458MHz	38	2478MHz	
	9	2420MHz	19	2440MHz	29	2460MHz	39	2480MHz	
	Remark: Channel 0, 19 & 39 have been tested.								











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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.

Equipment	Equipment Model No.		FCC ID	Trade Name	
Adapter	XCU32		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 22. 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

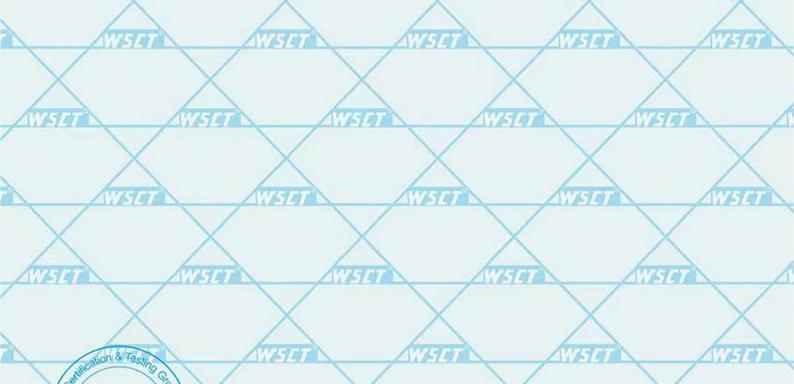
Number: L3732

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 %.

	Corinaei	X	
7	No.	Item	MU
	1	Power Spectral Density	±3.2dB
	2	Duty Cycle and Tx-Sequence and Tx-Gap	±1%
	3//5/	Medium Utilisation Factor	±1.3%
	4	Occupied Channel Bandwidth	±2.4%
1	5	Transmitter Unwanted Emission in the out-of Band	±1.3%
	6	Transmitter Unwanted Emissions in the Spurious Domain	±2.5%
	7	Receiver Spurious Emissions	±2.5%
	8	Conducted Emission Test	±3.2dB
	9	RF power, conducted	±0.16dB
_	10	Spurious emissions, conducted	±0.21dB
	1	All emissions, radiated(<1GHz)	±4.7dB
	12	All emissions, radiated(>1GHz)	±4.7dB
	13	Temperature ////////////////////////////////////	±0.5°C
/	14	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-	•
3	Test software	- (MTS8310	V210	- /	6144	
	EMI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
	LISN	AFJ	LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	Z
	Universal Radio Communication Tester	R&S	CMU 200	1100.0008.02	11/05/2023	11/04/2024	
7	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	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2023	7/28/2024	
ı	9*6*6 Anechoic	4	7-7-9-	WETER	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	
l	Cable	TIME MICROWAVE	LMR-400	N-TYPE04	11/05/2023	11/04/2024	É
	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	-	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	
	Power meter	Anritsu	ML2487A	6K00003613	11/05/2023	11/04/2024	
	Power sensor	Anritsu	MX248XD	AVSET	11/05/2023	11/04/2024	
	Spectrum Analyzer	Keysight	N9010B	MY60241089	11/05/2023	11/04/2024	-
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Test Results and Measurement Data 6.

6.1. Antenna requirement

Standard requirement:

FCC Part15 C Section 15.203 /247(c)

15.203 requirement:

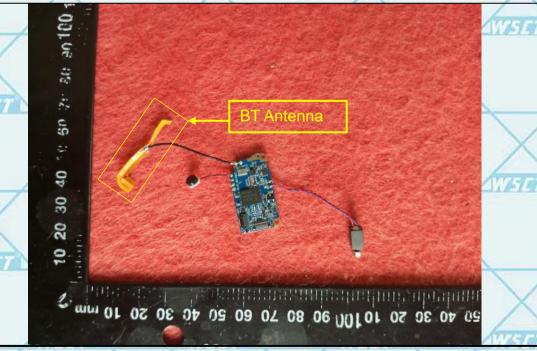
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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 Integral Antenna. it meets the standards, and the best case gain of the antenna is -2.17dBi.













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6.2. Conducted Emission

6.2.1. 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					
	Reference Plane					
WEST WEST	40cm LISN					
Test Setup:	E.U.T Adapter Test table/Insulation plane Remark E.U.T: Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m					
Test Mode:	Charging + Transmitting Mode					
Test Procedure:	 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. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please 					
W-741	refer to the block diagram of the test setup and photographs). 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:	N/A					
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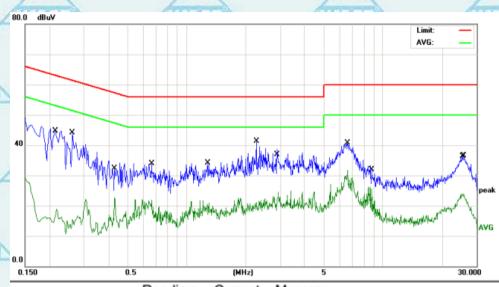
6.2.2. Test data

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Please refer to following diagram for individual

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



				Reading	Correct	Measure-				7
	No.	Mk.	Freq.	Level	Factor	ment	Limit	Over		
1			MHz	dBuV	dB	dBuV	dBuV	dB	Detector	7
	1		0.2140	34.34	10.45	44.79	63.04	-18.25	QP	
	2		0.2620	33.64	10.46	44.10	61.36	-17.26	QP	
b	3		0.4300	12.25	10.50	22.75	47.25	-24.50	AVG	
	4		0.6620	11.31	10.53	21.84	46.00	-24.16	AVG	
	5		1.2820	23.50	10.60	34.10	56.00	-21.90	QP	5
	6	*	2.2700	30.60	10.71	41.31	56.00	-14.69	QP	9
-	7		2.9340	13.83	10.72	24.55	46.00	-21.45	AVG	
	8		6.5940	29.95	10.77	40.72	60.00	-19.28	QP	
	9		6.5940	20.87	10.77	31.64	50.00	-18.36	AVG	
P	10		8.8580	12.02	10.81	22.83	50.00	-27.17	AVG	
	11		25.2420	12.86	11.12	23.98	50.00	-26.02	AVG	
	12		25.7420	25.30	11.13	36.43	60.00	-23.57	QP	

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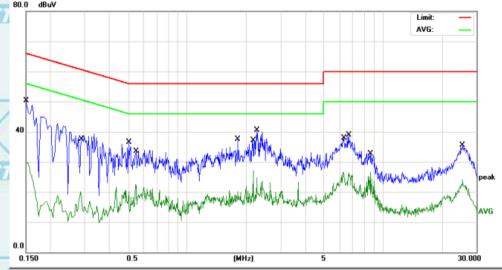


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/	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
u	1		0.1500	39.79	10.45	50.24	65.99	-15.75	QP
	2		0.2860	9.59	10.47	20.06	50.64	-30.58	AVG
	3		0.5020	25.92	10.52	36.44	56.00	-19.56	QP
	4		0.5460	12.05	10.52	22.57	46.00	-23.43	AVG
	5		1.8180	26.75	10.68	37.43	56.00	-18.57	QP
1	6		2.1740	16.42	10.71	27.13	46.00	-18.87	AVG
į	7	*	2.2700	29.80	10.71	40.51	56.00	-15.49	QP
	8		6.2540	15.74	10.76	26.50	50.00	-23.50	AVG
	9		6.6860	28.22	10.77	38.99	60.00	-21.01	QP
	10		8.6220	15.66	10.81	26.47	50.00	-23.53	AVG
/	11		25.4619	24.40	11.13	35.53	60.00	-24.47	QP
	12		25.4619	12.91	11.13	24.04	50.00	-25.96	AVG

Note:

Freq. = Emission frequency in MHz

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

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

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

Limit $(dB\mu V) = Limit$ stated in standard

 $Margin (dB) = Measurement (dB\mu V) - Limits (dB\mu V)$

Q.P. =Quasi-Peak AVG =average

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

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6.3. Conducted Output Power

6.3.1. 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.
Test Result:	f) Trace mode = max hold. g) Allow trace to fully stabilize. h) Use peak marker function to determine the peak amplitude level. PASS



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6.3.2. Test Data

BLE 1M					
Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result		
Lowest	7.23	30.00	PASS		
Middle	6.91	30.00	PASS		
Highest	6.24	30.00	PASS		

	And the second second	Accompany from	The same of the sa			
7	BLE 2M					
	Test channel	Maximum Conducted Output Power (dBm)	Limit (dBm)	Result		
	Lowest	7.34	30.00	PASS		
	Middle	7.06	30.00	PASS		
	Highest	6.42	30.00	PASS		

Test plots as follows:

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	TO NY IS		94	WESTER	N/E-T-E-T
11/5/4/	W/-51891	Wister	W6-149	WETG	
	TOTAL AND		100	W&-1-01	W-141
AVESTOT	Wister	172-14	VI65141	NVF14	
scallon & 9	$\langle \ \rangle$		5741	Wister	WESTER

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SPON * PT

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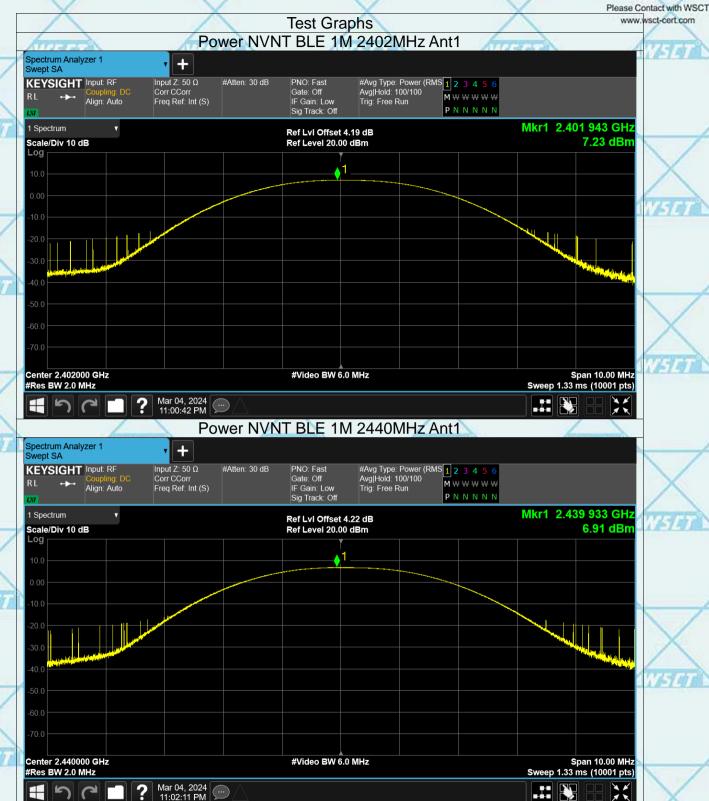






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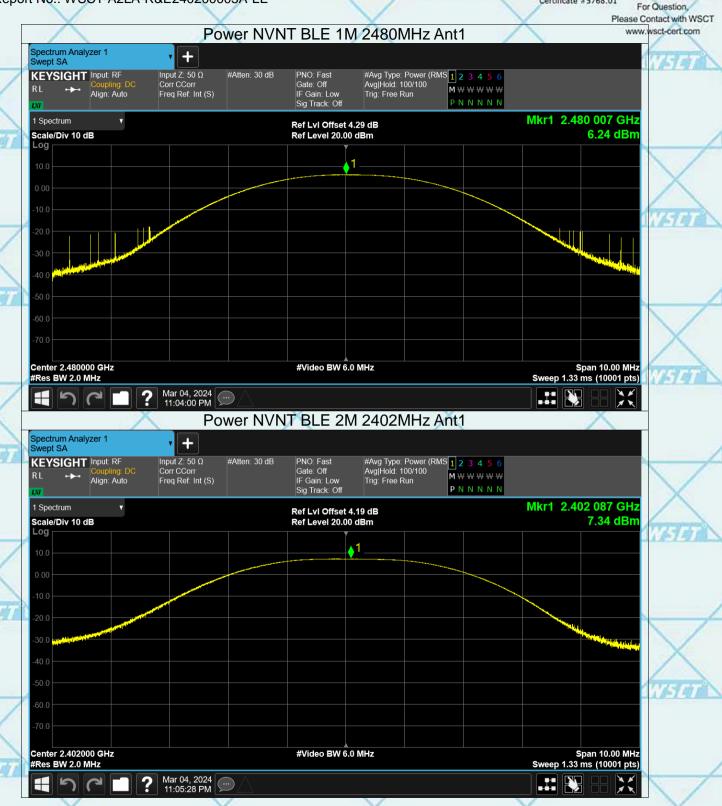






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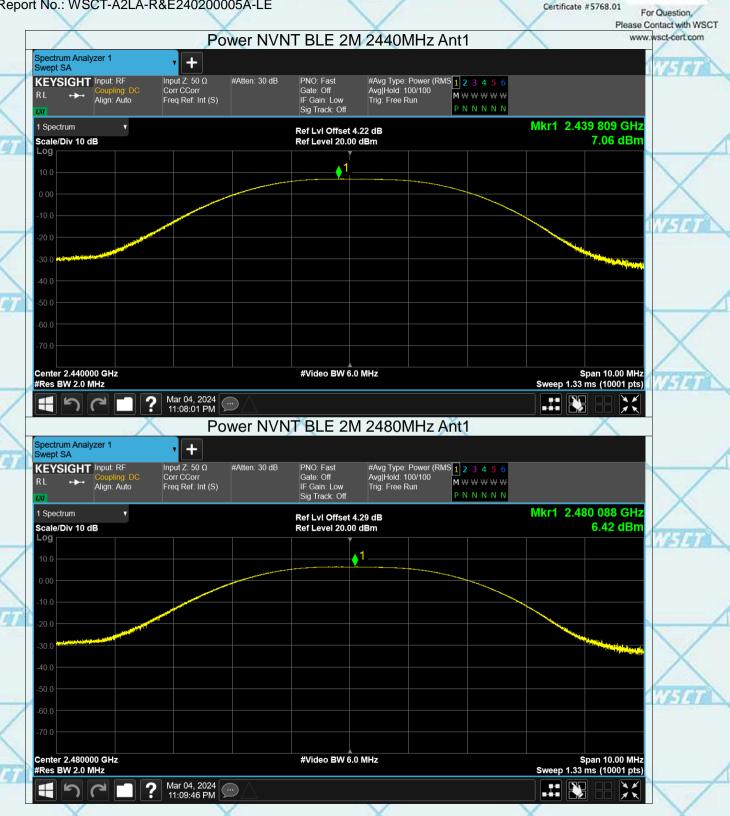






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6.4. Emission Bandwidth

6.4.1. Test Specification

Test Requirement:	FCC Part15 C Section 15.247 (a)(2)				
	1 00 1 art 13 0 decilor 13.247 (a)(2)				
Test Method:	KDB558074				
Limit:	>500kHz				
Test Setup:	EUT.				
Tant Made	Spectrum Analyzer				
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. 				
Tool Bookly	4. 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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			ши	7 7
ы	υĐ	9	M	7

			(110)	49.00
7	Test channel	6dB Emission I	Bandwidth (kHz)	
	rest charmer	BT LE mode	Limit	Result
0	Lowest	0.664	>500k	114141
	Middle	0.665	>500k	PASS
	Highest	0.656	>500k	

BLE 2M

	17-1-1-1-1	6 1 6 6 7	THE RESERVE TO SERVE	
Test channel	6dB Emission Bandwidth (kHz)			
rest channel	BT LE mode	Limit	Result	
Lowest	1.173	>500k	WSET	
Middle	1.236	>500k	PASS	
Highest	1.165	>500k		

Test plots as follows:

WEIGH	WEIGH	WETET	11119	NY.	100
NV.		\times	WEIGHT.	WHAT	WEIGH
WATER	AWS (B)	Wester	NV514		191
	W	1100	WEIGH	WEIGH	AWSTOTA
WETGE	WSTEE	WEIGH			
infeation & 7		574	Wester	WSI	NEG
iffCom	The second			/	

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1 Graph

2 Metrics

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Certificate #5768.01 For Question, Please Contact with WSCT www.wsct-cert.com -6dB Bandwidth NVNT BLE 1M 2480MHz Ant1 Spectrum Analyzer 1 + Input Z: 50 Ω Corr CCorr Atten: 30 dB Trig: Free Run Gate: Off Center Freq: 2.480000000 GHz Avg|Hold: 100/100 KEYSIGHT Input: RF Radio Std: None Align: Auto Freq Ref: Int (S) #IF Gain: Low Mkr3 2.480437000 GHz Ref Lvl Offset 4.29 dB Ref Value 24.29 dBm Scale/Div 10.0 dB 0.23 dBm Center 2.480000 GHz #Res BW 100.00 kHz Span 2 MHz Sweep 1.33 ms (10001 pts) #Video BW 300.00 kHz Occupied Bandwidth
1.0114 MHz Total Power 11.9 dBm Transmit Freq Error 109.52 kHz % of OBW Power 99.00 % x dB Bandwidth 655 8 kHz x dB -6 00 dB Mar 04, 2024 11:04:07 PM -6dB Bandwidth NVNT BLE 2M 2402MHz Ant1 Spectrum Analyzer 1 Occupied BW + Input Z: 50 Ω Atten: 30 dB Trig: Free Run Center Freq: 2.402000000 GHz KEYSIGHT Input: RF Corr CCorr Freq Ref: Int (S) Gate: Off #IF Gain: Low Avg|Hold: 100/100 Radio Std: None Align: Auto Mkr3 2.402628000 GHz Ref Lvi Offset 4.19 dB Ref Value 24.19 dBm 1.73 dBm Scale/Div 10.0 dB Center 2.402000 GHz #Res BW 100.00 kHz Span 2 MHz #Video BW 300.00 kHz Sweep 1.33 ms (10001 pts)



2 Metrics

Occupied Bandwidth

Transmit Freq Error

x dB Bandwidth

1.8143 MHz

Mar 04, 2024 11:05:36 PM

41.933 kHz

1.173 MHz

Total Power % of OBW Power 13.2 dBm

99.00 %

-6.00 dB









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6.5. Power Spectral Density

6.5.1. Test Specification

	Test Requirement:	FCC Part15 C Section 15.247 (e)
1	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:	Spectrum Analyzer EUT
1	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

6.5.2. Test Instruments

RF Test Room					
Equipment	Manufacturer	Model	Serial Number	Calibration Due	
Spectrum Analyzer	R&S	FSU	200054	Sep. 27, 2018	
RF cable (9kHz-26.5GHz)	тст	RE-06	N/A	Sep. 27, 2018	
Antenna Connector	TCT	RFC-01	N/A	Sep. 27, 2018	

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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6.5.3. Test data

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	Test channel	Power Spectral Density (dBm/3kHz)			
rest channel		BLE 1M	Limit	Result	
	Lowest	-8.36	8 dBm/3kHz		
0	Middle	-8.77	8 dBm/3kHz	PASS	
	Highest	-9.41	8 dBm/3kHz		

	Toot obonnol	Power Spectral Density (dBm/3kHz)						
	Test channel	BLE 2M	Limit	Result				
	Lowest	-12.20	8 dBm/3kHz					
ì	Middle	-12.51	8 dBm/3kHz	PASS				
	Highest	-13.22	8 dBm/3kHz					

Test plots as follows:

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W-5197	WETGE	WHITE	WEIGH	WSTAT
WHI	$\langle \ \rangle$			THE WATER
W/5141	WSU	WEID	AVI5191	WASTER
Weste				TO AVESTOR
W-141	Wister	WEIGH	W5141	NV 65 PP
scalion & Testin				TOTAL MISTORY

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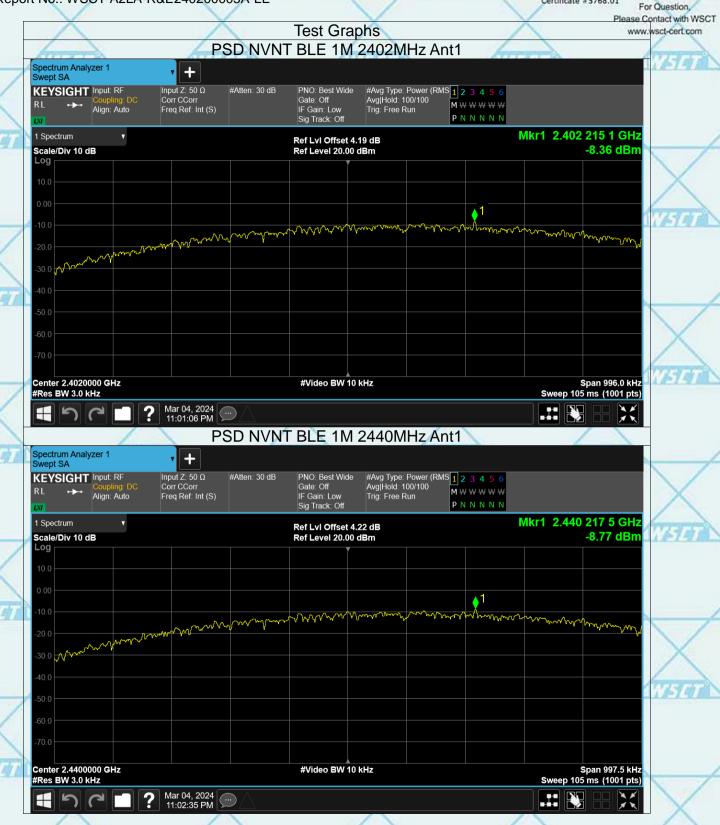






Report No.: WSCT-A2LA-R&E240200005A-LE







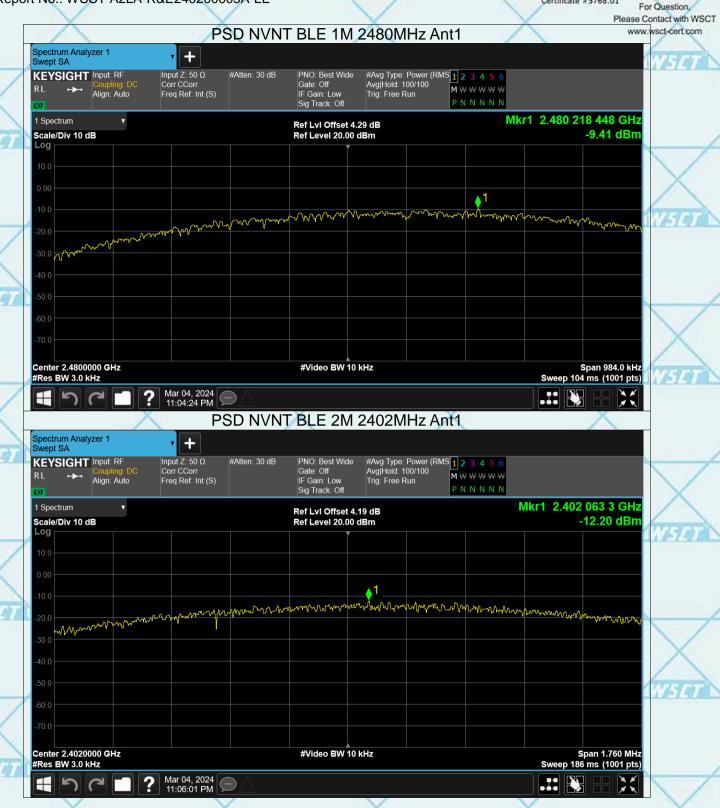






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1 Spectrum

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Center 2.4800000 GHz #Res BW 3.0 kHz

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#Video BW 10 kHz

Span 1.748 MHz Sweep 184 ms (1001 pts)









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6.6. Conducted Band Edge and Spurious Emission Measurement

6.6.1. Test Specification FCC Part15 C Section 15.247 (d) **Test Requirement:** KDB558074 **Test Method:** 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 Limit: 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: **EUT** Spectrum Analyzer Test Mode: Refer to item 4.1

	 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
Test Procedure:	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).
	4. Measure and record the results in the test report.5. The RF fundamental frequency should be excluded
	21112 M 10 10 10 10 10 10 10 10 10 10 10 10 10

PASS

measurement.



Test Result:

against the limit line in the operating frequency band.

 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







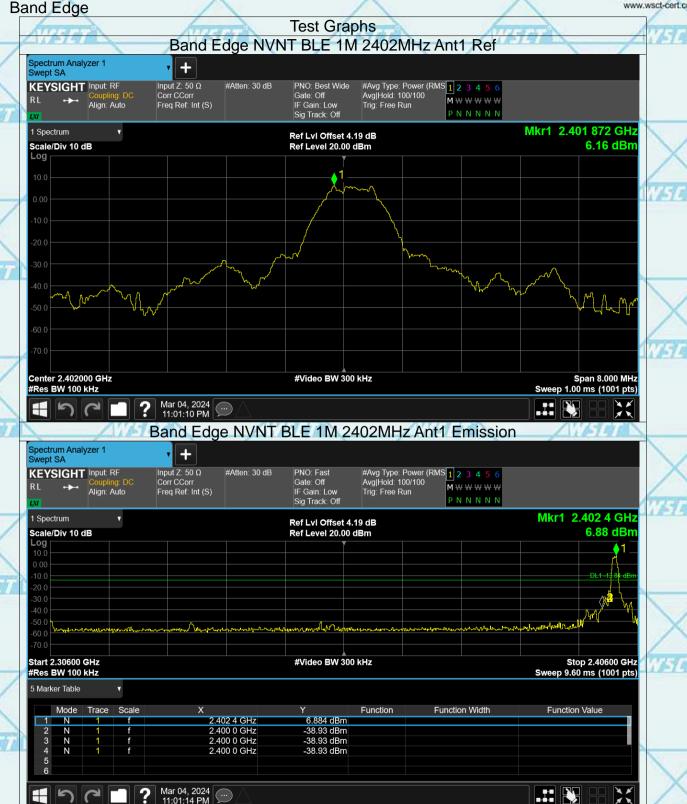


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Test Data

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1 Spectrum

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Certificate #5768.01 For Question, Please Contact with WSCT www.wsct-cert.com Band Edge NVNT BLE 1M 2480MHz Ant1 Ref Spectrum Analyzer 1 + Input Z: 50 Ω Corr CCorr #Atten: 30 dB PNO: Best Wide Gate: Off #Avg Type: Power (RMS 1 2 3 4 5 6 Avg|Hold: 100/100 KEYSIGHT Input: RF M W W W W IF Gain: Low Sig Track: Off Align: Auto Freq Ref: Int (S) Trig: Free Run PNNNNN Mkr1 2.480 360 GHz Ref Lvl Offset 4.29 dB Scale/Div 10 dB Ref Level 20.00 dBm 5.16 dBm Span 8.000 MHz Sweep 1.00 ms (1001 pts) Center 2.480000 GHz #Res BW 100 kHz #Video BW 300 kHz Mar 04, 2024 11:04:28 PM 噩 Band Edge NVNT BLE 1M 2480MHz Ant1 Emission Spectrum Analyzer 1 Swept SA #Avg Type: Power (RMS 1 2 3 4 5 6 Avg|Hold: 100/100 Input Z: 50 Ω #Atten: 30 dB PNO: Fast KEYSIGHT Input: RF Corr CCorr Freq Ref: Int (S) Gate: Off IF Gain: Low Sig Track: Off M ₩ ₩ ₩ ₩ Align: Auto Trig: Free Run PNNNN Mkr1 2.480 1 GHz Ref Lvl Offset 4.29 dB 5.38 dBm Scale/Div 10 dB Ref Level 20.00 dBm Start 2.47600 GHz #Video BW 300 kHz Stop 2.57600 GHz #Res BW 100 kHz Sweep 9.60 ms (1001 pts) 5 Marker Table Function Width Function Value Mode Scale Function



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5 6

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5.378 dBm -44.70 dBm -56.77 dBm -44.70 dBm

2.480 1 GHz 2.483 5 GHz 2.500 0 GHz

2.483 5 GHz

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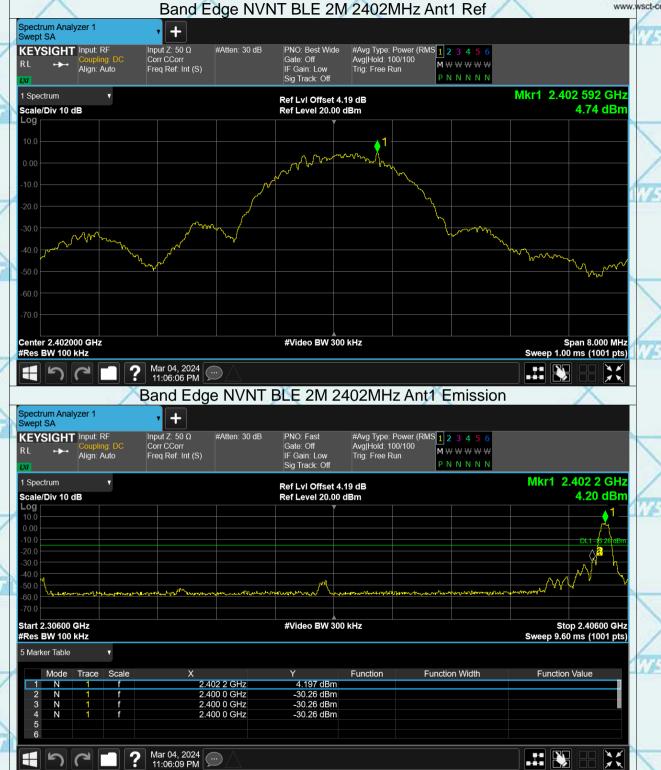




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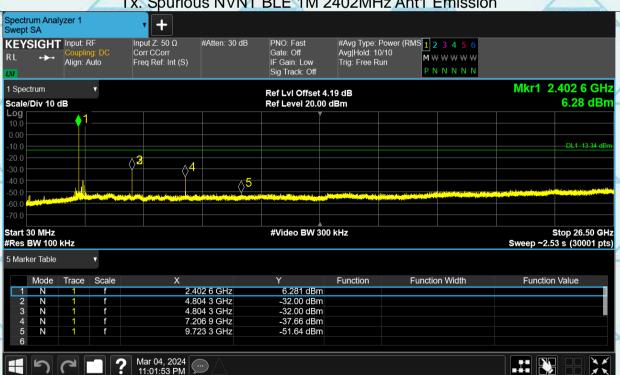




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#Res BW 100 kHz

Mode

Scale

2.440 5 GHz

4.880 2 GHz 4.880 2 GHz 4.880 2 GHz 7.320 7 GHz 9.713 6 GHz

Mar 04, 2024 11:03:14 PM

5 Marker Table

5 N

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Function Width

Function

4.635 dBm

-32.64 dBm -32.64 dBm -37.55 dBm

-52.50 dBm

Sweep ~2.53 s (30001 pts)

Function Value









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6.7. Radiated Spurious Emission Measurement

5.7.1. Test Specification				/		2. Allian		
Test Requirement:	FCC Part15	C Section	n 15	.209			X	
Test Method:	ANSI C63.10	0:2014	1	VSET		- /	WATER	
Frequency Range:	9 kHz to 25 (GHz	/		1	/		
Measurement Distance:	3 m	X						
Antenna Polarization:	Horizontal &	Vertical	1		177	41		
Operation mode:	Refer to item	4.1					/	
	Frequency	Detecto	r	RBW	VBW		Remark	
WSIT	9kHz- 150kHz	Quasi-pe	ak 🦯	200Hz	1kHz	Qua	si-peak Value	
Receiver Setup:	150kHz- 30MHz	Quasi-pe	ak	9kHz 30kH		Quasi-peak Value		
X	30MHz-1GHz	Quasi-pe	ak 1	100KHz	300KHz	Qua	si-peak Value	
		Peak	V.	1MHz	3MHz		eak Value	
WEST AVES	Above 1GHz	Peak	70	1MHz	10Hz	Ave	erage Value	
WSI	0.009-0.4 0.490-1.1	190	Field Strength (microvolts/meter) 2400/F(KHz) 24000/F(KHz)		meter) (Hz)		easurement ance (meters) 300 30	
	1.705-3		30			30		
X	30-88		100			3		
	88-216			150			3	
Limit:	216-96	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		200	11124		3	
THE STREET	Above 9	60		500		T. Allen	3	
WEIGT	Frequency	Frequency Field Strength Dis			Measure Distan (meter	се	Detector	
	Above 1GH		500		3	1	Average	
			500	U	3		Peak	
August Au	For radiated	emissio	ns be	elow 30	MHz			

Computer Pre -Amplifier Turn table Ground Plane 30MHz to 1GHz

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Test setup:

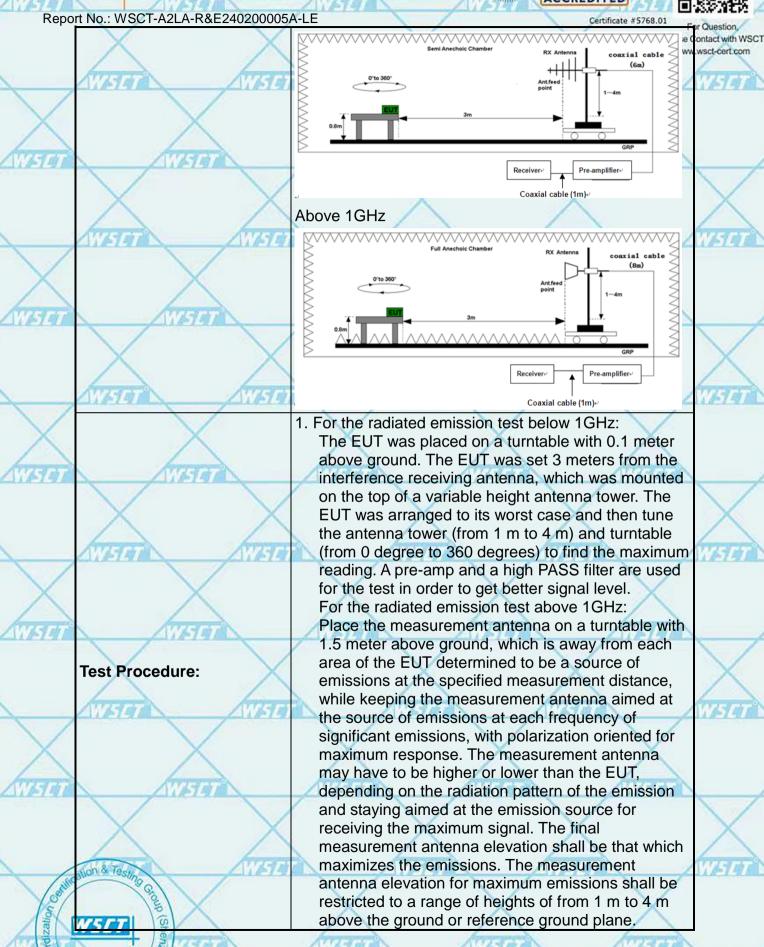
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Popo	ort No.: WSCT-A2LA-R&E2402000		somer 🚄
Kepo	IT NO WSCT-AZLA-R&EZ40Z000		or Question,
	X	2. Corrected Reading: Antenna Factor + Cable Loss	wsct-cert.com
		Read Level - Preamp Factor = Level	
	17/5	3. For measurement below 1GHz, If the emission level	WSET
		of the EUT measured by the peak detector is 3 dB	
X	X	lower than the applicable limit, the peak emission	
		level will be reported. Otherwise, the emission	
112322	ATTENDED IN	measurement will be repeated using the quasi-peak	,
A11-17-	1013	detector and reported.	/
		4. Use the following spectrum analyzer settings:	
		(1) Span shall wide enough to fully capture the	
A.		emission being measured;	
	A16148	(2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW;	1279
X		Sweep = auto; Detector function = peak; Trace =	
		max hold;	
AVISET	WEST	(3) Set RBW = 1 MHz, VBW= 3MHz for f □ 1 GHz for peak measurement.	/
		For average measurement: VBW = 10 Hz, when	//
	X	duty cycle is no less than 98 percent. VBW ≥ 1/T,	X
à	harmon harmon	when duty cycle is less than 98 percent where T is	
	11619	the minimum transmission duration over which the	1474 A
		transmitter is on and is transmitting at its maximum	
X	X	power control level for the tested mode of operation.	
Maria	Test mode:	Refer to section 4.1 for details	
ZIE I TE	Test results:	PASS	1
	X	\leftarrow \times	X
	Note: Freq. = Emission frequency in N Reading level (dBµV) = Receiver read		
	Corr. Factor (dB) = Attenuation factor		WATER A
	Level (dBµV) = Reading level (dBµV)	+ Corr. Factor (dB)	LATE A SEASON
	Limit $(dB\mu V) = Limit stated in standar Margin (dB) = Level (dB\mu V) - Limits (dB\mu V)$		
	iviargin (db) = Lever (dbµv) = Limits (ubμv)	
AVI-14	WSI	WSIGT WSIGT	
711111	1		/
	X	$\langle \hspace{1cm} 1cm$	X
	AVEIGIA AVE	WSGI WSGI	WSET
X	X	X X X	
/			
AWSET	W5157	WSET WSET WSET	
	1817	118191	
	The same	The same of the sa	/
			X

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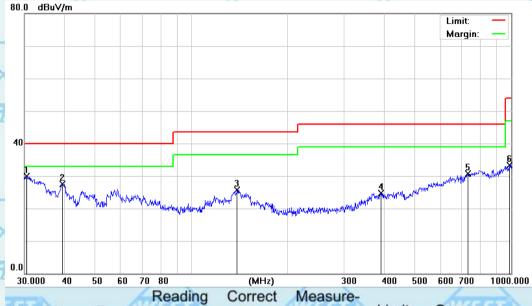
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6.7.2. Test Data

Please refer to following diagram for individual

Below 1GHz





	No.	Mk.	Freq.	Reading Level	Correct	Measure- ment	Limit	Over	
			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	*	30.5306	33.04	-3.20	29.84	40.00	-10.16	QP
>	2	4	39.4371	29.62	-2.06	27.56	40.00	-12.44	QP
E	3	17	138.8735	28.45	-2.70	25.75	43.50	-17.75	QP
- 1	4		392.0951	25.39	-0.70	24.69	46.00	-21.31	QP
	745	1	731.9203	25.57	5.04	30.61	46.00	-15.39	QP
	6		986.0717	25.70	7.62	33.32	54.00	-20.68	QP

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N/ST

WSET

AWSET.

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Vertical:



	30.000	40	50	60	70	80	(MHz)	300	400	500 6	00 700	1000.000
>	No. I	Иk.	Fr	eq.		Reading Level	Correct Factor	Measure- ment	Limit	_0	ver	144
3			MI	Ηz		dBuV	dB	dBuV/m	dBuV/r	n i	dB	Detector
	1	1	30.63	379	}	34.27	-3.20	31.07	40.00	8-	.93	QP
	2	*117	39.29	91	-	33.60	-2.07	31.53	40.00	-8	.47	QP
	3	- 1	59.85	88		30.04	-3.30	26.74	40.00	-13	3.26	QP
ĺ	4	1	57.55	88	1	26.33	-2.00	24.33	43.50	-19	9.17	QP
>	5	4	70.52	232	W	30.54	1.10	31.64	46.00	14	4.36	QP
	6	9	58.79	943	1	27.27	7.48	34.75	46.00	-1	1.25	QP

Note1:

Freq. = Emission frequency in MHz

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

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

Measurement (dB μ V) = Reading level (dB μ 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								
1	Freq. (MHz)	Ant.Pol	Emission L	_evel(dBuV)	Limit 3m	(dBuV/m)	Over(dB)				
		H/V	PK	AV	PK	AV	PK	AV			
	4804	V	58.97	41.54	74	54	-15.03	-12.46			
×.	7206	V	59.41	39.93	74	54	-14.59	-14.07			
	4804	TEHRO	58.07	39.26	74	54	-15.93	-14.74			
	7206	Н	59.19	40.19	74	54	-14.81	-13.81			

						<u> </u>					
	Freq. (MHz)	Middle channel: 2440MHz									
Z		Ant.Pol	Emission I	_evel(dBuV)	Limit 3m	(dBuV/m)	Over(dB)				
		H/V	PK	AV	PK	AV	PK	AV			
	4880	V	60.72	40.82	74	54	-13.28	-13.18			
5	7320	V	58.71	39.00	74	54	-15.29	-15.00			
1	4880	WSH7	59.24	39.17	74	54	-14.76	-14.83			
	7320	Н	59.57	40.57	74	54	-14.43	-13.43			

					^						
	Freq. (MHz)	High channel: 2480 MHz									
2		Ant.Pol	Emission L	_evel(dBuV)	Limit 3m	(dBuV/m)	Over(dB)				
		H/V	PK	AV	PK	AV	PK	AV			
	4960	V	60.52	39.93	74	54	-13.48	-14.07			
	7440	V	59.96	39.95	74	54	-14.04	-14.05			
ì	4960	192-17	59.65	39.43	74	54	-14.35	-14.57			
	7440	H	58.96	39.96	74	54	-15.04	-14.04			

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.
- 3. 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.

AVISTA	11/5/41	WSIA	NV5191	N/670	
		× `	X	X	X
WIS	THE WAY	144	VETO	WETT	WEIGH
X	X	X	X	X	
AVE TO	17519	NIST II	WSG	17614	
		×	\times	\times	X
100		77.0	77.5	ATTENDED TO	MILERA

SC7 (Shell Shell S

ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao'an District, Shenzhen, Guangdong, China TEL:86-755-26996192 26992306 FAX:86-756-86376605 E-mail: Fengbing Wang@wsct-cert.com Http://www.wsct-cert.com









Report No.: WSCT-A2LA-R&E240200005A-LE

Certificate #5768.01

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

Restricted Bands Requirements

YOUP (Shenz)

S DUOM * PIT

Test result for GFSK Mode (the worst case)

	Test tesuit	OF GEOR IVI	oue (life	worst case	A LANGE CONT	18	11112-3	nor mile
/	Frequency	Reading	Correct Factor	Emission Level	Limit	Margin	Polar	Detector
1	(MHz)	(dBuV/m)	dB/m	(dBuV/m)	(dBuV/m)	(dB)	H/V	
3	À	AVESTER		Low Cha	nnel	10240	1	1023
	2390	62.24	-8.76	53.48	74	20.52	H	PK
	2390	54.67	-8.76	45.91	54	8.09	нХ	AV
	2390	61.79	-8.73	53.06	74	20.94	V	PK
	2390	56.09	-8.73	47.36	54	6.64	V	AV
/				High Cha	nnel			
/	2483.5	63.96	-8.76	55.20	74	18.80	Н	PK
ý	2483.5	56.72	-8.76	47.96	54	6.04	Н	AV
	2483.5	60.21	-8.73	51.48	74	22.52	V	PK
	2483.5	57.40	-8.73	48.67	54	5.33	V	AV

WASTER AWAST	$\langle \times $	REPORT	Wister
WHI	N. F. G.	\times	THE WESTER
WYST 41 WYST		X	N/STAT
Wester	Water	\times	NV-101
AVE 141		X	NVST 01
sinn & Toos	WATER A	\times	747

Page 46 of 46

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