WSET

WSET

WSET



W5 CT

WTEST REPORT

WS ET

WS CI

WS ET

WSE

WS ET

WS CT

WSET

FCC ID: 2AXYP-OSW-831N

Product: Smart Watch

W5 ET

Model No.: OSW-831N WSI

WSET

NS C

Trade Mark: oraimo

Report No.: WSCT-ANAB-R&E240800040A-15B

Issued Date: 05 September 2024

WSCI

W5C7

WSET

Issued for:

WSET

W5 E

ORAIMO TECHNOLOGY LIMITED

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

WS CT

Issued By:

WSE

World Standardization Certification & Testing Group(Shenzhen) Co., Ltd. Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen, Guangdong, China.

WSET

TEL: +86-755-26996192

FAX: +86-755-86376605

WSET

WSET

WSET

WSET

Note: This report shall not be reproduced except in full, without the written approval of World

WSET Standardization Certification & Testing Group (Shenzhen) Co., Ltd This document may be altered or revised by World Standardization Certification & Testing Group (Shenzhen) Co., Ltd. personnel only, and shall be noted in the revision section of the document. The test results in the report only

apply to the tested sample.

tione Tes

W5 C1

86-755-26996192 26996053 26996144

ilding A-B.Baoli'an Industrial Park, No.58 au

FAX:0086-755-8637660

深圳世标检测认证股份有限公司

TEL: 0086-755-26996192 26996053 26996144

FAX: 0086-755-86376605

World Standardization Certification & Testing Group (Shenzhen) Co.,ltd.

Report No.: WSCT-ANAB-R&E240800040A-15B

TABLE OF CONTENTS

	Test Certification	W5CT	WSET	W5 CT
2.	GENERAL DESCRIPTION OF	EUT	X	4
wsr3.	Test Result Summary			5
4.	TEST METHODOLOGY			6
-	4.1. CONFIGURATION OF SYSTEM UND	ER TEST	X	7
	4.2. DESCRIPTION OF SUPPORT UNITS	(CONDUCTED MODE)	WSCT	18'5 []
5.	MEASUREMENT INSTRUMEN	NTS		9
6.	Facilities and Accreditations			10
W5CT	6.1. FACILITIES 5.5.7.	CT W5CI	W5CT	10
	6.2. ACCREDITATIONS	X	X	10
	6.3. MEASUREMENT UNCERTAINTY			11
7/	EMC EMISSION TEST	WSET	WSCT	12/5 <i>CT</i>
	7.1. CONDUCTED EMISSION MEASURE	MENT		12
	7.2. TEST RESULTS			14
W5 CT	7.3. RADIATED EMISSION MEASUREME	NT	M.S.C.T	16
8.	Test Setup Photographs	WSET	WSET	23
WSCT	WS ET WS	$\langle \hspace{0.1cm} \rangle$	WSET	
	WSET WSET	WSET	WSET	WSCT
WSCT	WS ET WS	$\langle \rangle$	$\langle \rangle$	
	WSET WSET	WSCT	X	ione Testing
WSCT	WS CT WS	ET WS CI	A Sandardization Co.	SCT Shenzhoup
	an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an Distri	ct, Shenzhen City, Guangdong Province, China.	深圳世标检测认证股份有限公司	M # PIT.00





WS CT



WSE'

WSE

WSE

W5 CT Report No.: WSCTANAB R&E240800040A 15B

WSCT

Test Certification

Product:

Smart Watch

Model No.:

OSW-831N

Additional

Model:

W5 ET

WSET

W5E

oraimo

Applicant:

ORAIMO TECHNOLOGY LIMITED

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

WSET

SHAN MEI STREET FOTAN NT HONGKONG

Manufacturer:

ORAIMO TECHNOLOGY LIMITED

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

SHAN MEI STREET FOTAN NT HONGKONG

Date of receipt:

19 August 2024

Date of Test:

20 August 2024 ~ 04 September 2024

Applicable Standards:

FCC CFR Title 47 Part 15 Subpart B

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.

WSET

WSCT

W5 CT

WSE

Tested By:

Jiang Guanliana

Checked By:

(Qin Shuiquan)

NS CT

WSCI

(Jiang Guanliang)

W5E7

Approved By:

(Li Huaibi)

W5 LT Date: 05

Septembe

WSCI

WSET

WSE

WSET

WS ET

ation& Tes

深圳世标检测认还股份有限公司

EL:0086-755-26996192 26996053 26996144

Page 3 of 23

W5 CT°



Report No.: WSCT-ANAB-R&E240800040A-15B

WSET

2. GENERAL DESCRIPTION OF EUT

	Product Name:	Smart Watch WS CT WS CT	V5 CT
/	Model :	OSW-831N	
)	Trade Mark:	oraimo	
	Software version:	V1.0	
	Hardware version:	T5270.v3.0	VSET
/	II INAFATINA	Rechargeable Li-ion Polymer Battery: ZWD402226V Rated Voltage: 3.8V Typical Capacity: 20mAh/0.988Wh	FIGE
Ż	Remark:	N/A-T WSCT WSCT WSCT	
	Nieto, 4 NI/A a	stan de fan na anvillagh la	\ /

Note: 1. N/A stands for no applicable.

2. Antenna gain provided by the applicant

W5CT [®]	W5 CT	WSE	WS CT	W5 C	7°
	W5 ET	WSET"	W5 ET	W5 ET	WS CT"
X	X	X	X	X	

\times			
X X X X X X X X			

X X X X

21136/ E	WSCT WSCT WSCT WSCT	15 CT	0
----------	---------------------	-------	---

WSCT	W5 ET	W5ET*	WSET	cation& Tests
				Still

WSCT WSCT WSCT WSCT

DD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. EL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com

深圳世标检测认证股份有限公司 World Standardization Certification & Testing Group(Shenzhen) Co...Ltd

Member of the WSCT Group (WSCT SA)

'S CT"





W5 C7 Report No.: WSCT-ANAB-R&E240800040A-15B C7

W5CT°

3. Test Result Summary

W5CT

/	Requirement	CFR 47 Section	Result	W5CT [®]
	CONDUCTED EMISSION	§15.107	PASS	
7	RADIATED EMISSION	W5ET §15.109 W5ET	PASS/5_T	

	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.
WSCT	4. The test result judgment is decided by the limit of test standard.
	WSET WSET WSET WSET WSET
X	\times \times \times
W5CT [®]	WS CT WS CT WS CT
	XXXXX
	WSCT WSCT WSCT WSCT WSCT

W5CT°	WSET	WSET	WS ET°	WSET	
W.5		$\langle \hspace{0.1cm} \rangle$		YSCT	WSET
WSET	WSET	WSET	WSET	WSET	
				\vee	\bigvee

WSCT WSCT WSCT

ADD: Building A-B, Baoli'an Industrial Park, No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City Guangdong Province, China TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com

深圳世标检测认证股份有限公司
World Standardization Certification& Testing Group(Shenzhen)

ation& Test



Report No.: WSCT-ANAB-R&E240800040A-15B

WSE



TEST METHODOLOGY 4.

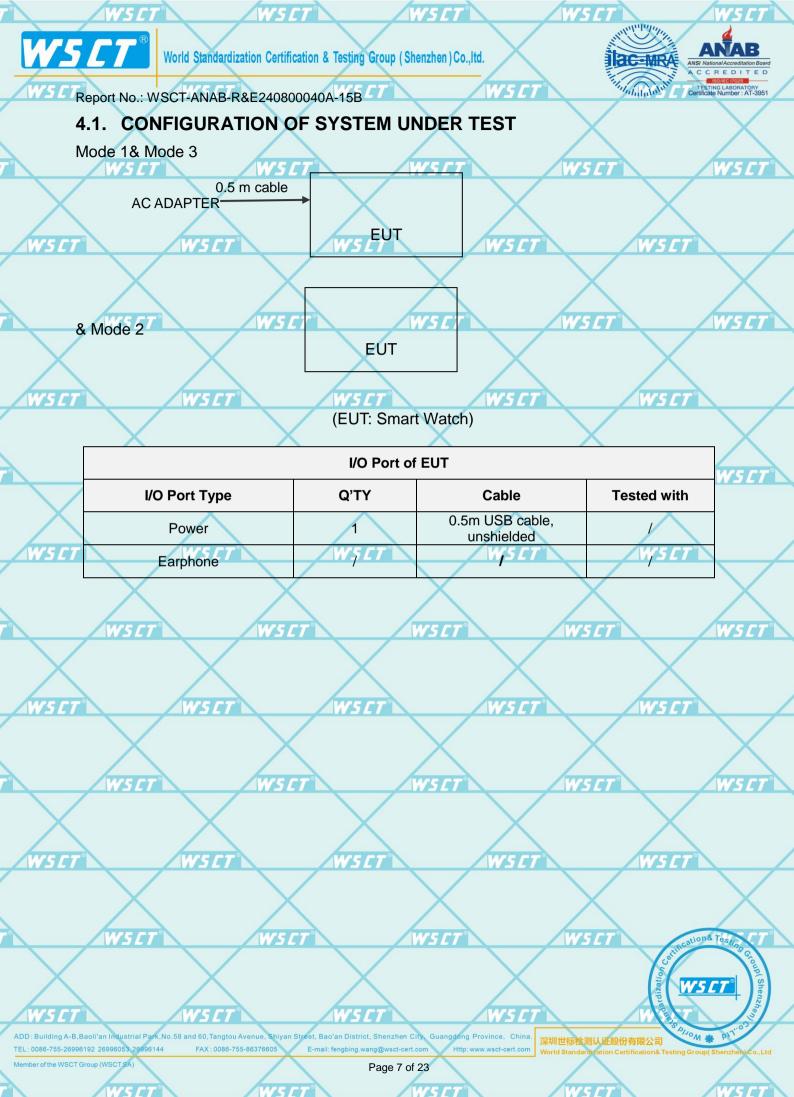
To investigate the maximum EMI emission characteristics generates from EUT, the test 5 11 system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

	Pretest Mode	Description	
7.	Mode 1	Charging	
2	Mode 2	Bluetooth	_
	Mode 3	Bluetooth + charging	

		ones cannot be turned on			t.
WSET	W5 ET	W5 ET	W5ET*	W5 CT°	
	X,	\times	X	X	X
7° W	SET	VS CT W	SET N	V5 CT	W5CT"
WSET	WSET	WSET	WSET	WSET	
T W	SET V	VSET W	X	WSET	WSCT
WSCI	WSET	WSET	WSET	WSCT	
	\times	\times		WSET	WSLT
WSCT	WSET	WSET	WSET	WSCT	
W		VSET W	507	WS ET acati	one Testin
WSCT	WSET	WSET	WSET	W Control of Control o	one Testing Group (Shenzheil)
	The second secon			D ₁ .	

TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605

ADD: Building A-B,Baoli'an Industrial Park,No.58 and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China. 深圳世标检测认证股份有限公司



Iac-MRA



World Standardization Certification & Testing Group (Shenzhen) Co., ltd.

Report No.: WSCT-ANAB-R&E240800040A-15B

DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

The EUT has been tested as an independent unit together with other necessary W5 [7] accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Ľ	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note	1
	1	Adapter	itel	U180IED		/	
	2	Keyboard	/			/	
	3	V5 C Mouse	W5CT*	WSET	W5 IT	1	T

Note:

ADD: Building A-B, Baoli'an Industrial Park, No.58 TEL: 0086-755-26996192 26996053 26996144

- The support equipment was authorized by Declaration of Confirmation. (1)
- (2) For detachable type I/O cable should be specified the length in cm in Length. column.

WS	ET" W	W.	SET V	VS CT"	WSET
\times	\times	\times	\times	\times	
WSET	WSET	WSET	WSET	W5 ET"	
W.5	ET W.S	W.	SET	WSET	W5 CT°
WS ET	WSET	WSET	WSET	WSET	
WS		$\langle \hspace{0.1cm} \rangle$		WSCT	WSCT
W5CT°	WSLT	WSET	WSCT	WSCT	
W.5		$\langle \hspace{0.1cm} \rangle$		\times	me Test
WSCT	WSCT	WSITE	WSCT	A redization Co.	n. Testing Gloup (Shenzhe

FAX: 0086-755-86376605





TEL: 0086-755-26996192 26996053 26996144

FAX: 0086-755-86376605

World Standardization Certification & Testing Group (Shenzhen) Co.,ltd.

Report No.: WSCT-ANAB-R&E240800040A-15B

W5CT°

5. MEASUREMENT INSTRUMENTS

							_
	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	5 <i>E 1</i>
	Test software	-	EZ-EMC	CON-03A	-	\ -	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
54	LISN W5/	AFJ W	5 C T LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	
	pre-amplifier	CDSI	PAP-1G18-38		11/05/2023	11/04/2024	\land
	System Controller	w ^c T-7°	SC100 5 7	-	11/05/2023	11/04/2024	5 C I
	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2023	11/04/2024	
X	Spectrum analyzer	R&S	FSU26	200409	11/05/2023	11/04/2024	
54	Horn Antenna	SCHWARZBECK	9120D	1141	11/05/2023	11/04/2024	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	7/29/2023	7/28/2024	
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	X
	9*6*6 Anechoic	WSCT	WSFT	- /	11/05/2023	11/04/2024	5 C

WSET	WSET	W5 CT°	WSET	WS ET	
	CT WS				W5 ET
WSCT	WSET	WSET	WSET	WSET	
	CT WS	$\langle \hspace{0.1cm} \rangle$			WSLT
WSCT	WSLT	WSET	WSET	WSET	
		$\langle \hspace{0.1cm} \rangle$			Test, LT
				Selith	Tesung Group (s

Page 9 of 23





Report No.: WSCT-ANAB-R&E240800040A-15B

Facilities and Accreditations 6.

6.1. Facilities

All measurement facilities used to collect the measurement data are located at

World Standardization Certification & Testing Group (Shenzhen) Co., ltd.

World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.

Building A-B, Baoli'an Industrial Park, No. 58 and 60, Tangtou Avenue, Shiyan Street, Bao'an

District, Shenzhen, Guangdong, China.

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."

6.2. 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.

ANAB - Certificate Number: AT-3951

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (ANAB). Certification Number: AT-3951

Page 10 of 23

EL: 0086-755-26996192 26996053 26996144





Report No.: WSCT-ANAB-R&E240800040A-15B

W5CT

6.3. Measurement Uncertainty

The reported uncertainty of measurement y ± 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 %.

X	No.	Item	MU			
W5CT	1	Conducted Emission Test W 5 CT	±3.2dB/5_7			
	2	RF power, conducted	±0.16dB			
	3	Spurious emissions, conducted	±0.21dB			
	4	All emissions, radiated(<1GHz)	±4.7dB			
X	5	All emissions, radiated(>1GHz)	±4.7dB			
W5 CT	6	Temperature W5 [7] W5 [7]	±0.5°CV5[]			
	7	Humidity	±2.0%			

	O .	Temperature	1125			±0.0 0	
	7	Humidity	X	\times		±2.0%	
	W5 E	7°	W5 CT	W5 ET	W.5	CT .	WSET
X		\times	X		\times	\times	
WSET		W5 ET	WSET		SCT	WSET	
	West		We ex	W/CCT ²	1111		WEET
WSET	W5 C	WSET	WS ET	WSET	SET	WSET	W5 ET
	WSI		WSET	WSET			WSET
WSET		WSET	WSET		SET	WSET	
	WSL		WSCT	W5 ET			& Testin
X		X	X		X	W.5	& Testing Group (Shear

FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com
Page 11 of 23

深圳世标检测认证股份有限公司
World Standardization Certification& Testing Group(Shenzhen) C

TEL: 0086-755-26996192 26996053 26996144



W5C

Report No.: WSCT-ANAB-R&E240800040A-15B

EMC EMISSION TEST 7.

7.1. CONDUCTED EMISSION MEASUREMENT

W5 C1

IaC-MRA

Mahalala

W5 C

7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

1 7 7	A 100	V make
	Aller III	/ /2007
1 4 /		

7	FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard
	FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
	0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
	W 5 0.50 -5.0	73.00	60.00	L 756.00	46.00	FCC
	5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

(1) The tighter limit applies at the band edges.

(2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

W5C1

W5C

The following table is the setting of the receiver

•		
	Receiver Parameters	Setting
	Attenuation	10 dB
Ž	Start Frequency	0.15 MHz
	Stop Frequency	30 MHz
	IF Bandwidth	9 kHz

W5L

WSC1

WSE

WS ET

Page 12 of 23

NS CT

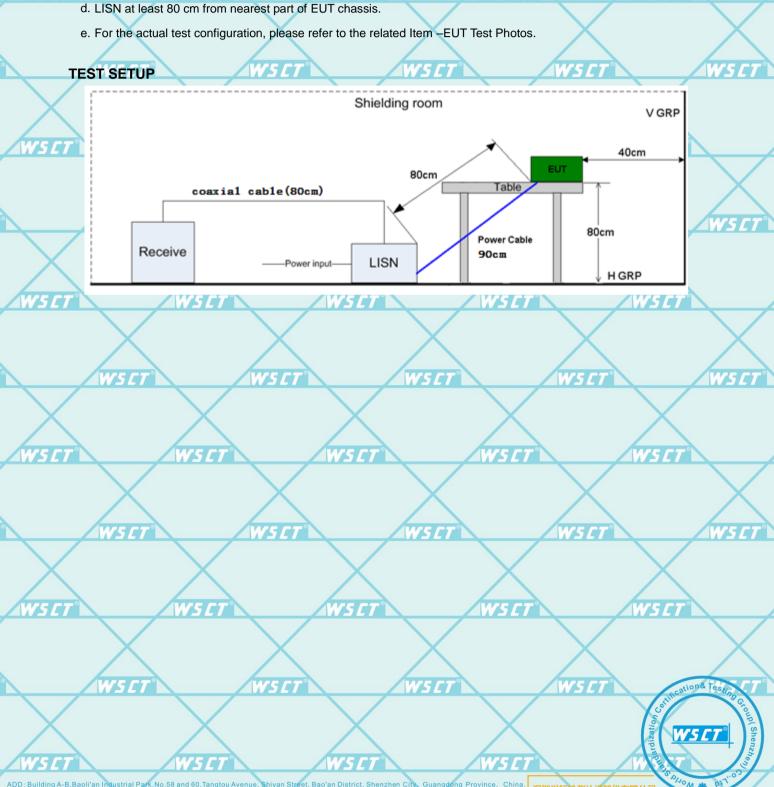
lac-MRA



Report No.: WSCT-ANAB-R&E240800040A-15B

TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.



of the Wood Cloup (Wood)

TEL: 0086-755-26996192 26996053 26996144

FAX: 0086-755-86376605

Page 13 of 23

NS ET

深圳世标检测认证股份有限公司 World Standardization Certification& Testing Group(She WS CT

7° W5

WS CT

Mahalalala



W5CT[®]

World Standardization Certification & Testing Group (Shenzhen) Co., ltd.

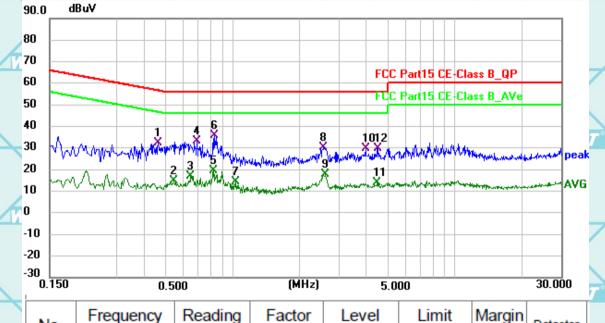
W5 Report No.: WSCT-ANAB-R&E240800040A-15B

W5CT[®]

7.2. Test Results

_	Temperature	20 °C ₩5 <i>ET</i>	Relative Humidity	48% W5ET	W5
	Pressure	1010 hPa	Test Mode	Mode 3	

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



Frequency Margin No Detector (MHz) (dBuV) (dB) (dB) (dBuV) (dBuV) 1 0.4605 11.62 20.53 32.15 56.68 -24.53 QP 2 0.5415 -5.6420.52 14.88 46.00 -31.12 AVG 3 0.6495 -3.7520.53 16.78 46.00 -29.22 AVG 4 0.6900 12.52 20.54 33.06 56.00 -22.94QP 5 0.8205 -1.1520.59 19.44 46.00 -26.56 AVG 6 QP 0.8340 15.05 20.60 35.65 56.00 -20.357 1.0275 -6.3720.67 14.30 46.00 -31.70 AVG QP 8 2.5710 9.80 20.60 30.40 56.00 -25.609 17.82 AVG 2.6204 -2.7820.60 46.00 -28.18 10 3.9795 9.13 20.58 29.71 56.00 -26.29QP 11 4.4745 -6.5820.58 14.00 46.00 -32.00AVG QP 12 4.4970 9.06 20.58 29.64 56.00 -26.36

WSET

WSET

W5CT"

WSCT WSCT

4W5CT

WSCT

AWS CT

MJLI

ADD: Building A-B,Baoli'an Industrial Park, No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chin.

TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com

深圳世标检测认证股份有限公司

SCT

WE

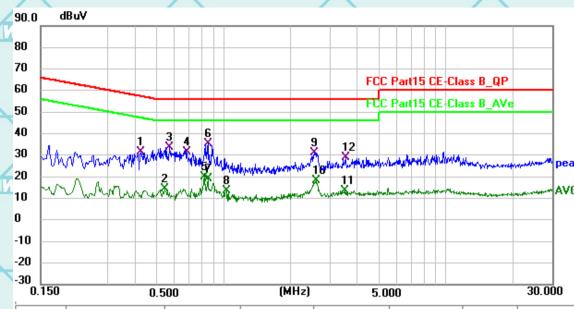
WSCT WSCT

Member of the WSCT Group (WSCT SA



Report No.: WSCT-ANAB-R&E240800040A-15B

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



Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector	
0.4200	10.75	20.56	31.31	57.45	-26.14	QP	
0.5415	-6.21	20.52	14.31	46.00	-31.69	AVG	
0.5685	13.02	20.52	33.54	56.00	-22.46	QP	
0.6809	10.80	20.54	31.34	56.00	-24.66	QP	Ī
0.8205	-0.48	20.59	20.11	46.00	-25.89	AVG	Ī
0.8520	14.85	20.61	35.46	56.00	-20.54	QP	
0.8520	-1.58	20.61	19.03	46.00	-26.97	AVG	
1.0275	-6.98	20.67	13.69	46.00	-32.31	AVG	
2.5620	10.67	20.60	31.27	56.00	-24.73	QP	
2.6160	-2.52	20.60	18.08	46.00	-27.92	AVG	Ī
3.5160	-6.97	20.59	13.62	46.00	-32.38	AVG	Ī
3.5340	8.29	20.59	28.88	56.00	-27.12	QP	Ī
	(MHz) 0.4200 0.5415 0.5685 0.6809 0.8205 0.8520 0.8520 1.0275 2.5620 2.6160 3.5160	(MHz) (dBuV) 0.4200 10.75 0.5415 -6.21 0.5685 13.02 0.6809 10.80 0.8205 -0.48 0.8520 14.85 0.8520 -1.58 1.0275 -6.98 2.5620 10.67 2.6160 -2.52 3.5160 -6.97 3.5340 8.29	(MHz) (dBuV) (dB) 0.4200 10.75 20.56 0.5415 -6.21 20.52 0.5685 13.02 20.52 0.6809 10.80 20.54 0.8205 -0.48 20.59 0.8520 14.85 20.61 0.8520 -1.58 20.61 1.0275 -6.98 20.67 2.5620 10.67 20.60 2.6160 -2.52 20.60 3.5160 -6.97 20.59	(MHz) (dBuV) (dB) (dBuV) 0.4200 10.75 20.56 31.31 0.5415 -6.21 20.52 14.31 0.5685 13.02 20.52 33.54 0.6809 10.80 20.54 31.34 0.8205 -0.48 20.59 20.11 0.8520 14.85 20.61 35.46 0.8520 -1.58 20.61 19.03 1.0275 -6.98 20.67 13.69 2.5620 10.67 20.60 31.27 2.6160 -2.52 20.60 18.08 3.5160 -6.97 20.59 28.88	(MHz) (dBuV) (dB) (dBuV) (dBuV) 0.4200 10.75 20.56 31.31 57.45 0.5415 -6.21 20.52 14.31 46.00 0.5685 13.02 20.52 33.54 56.00 0.6809 10.80 20.54 31.34 56.00 0.8205 -0.48 20.59 20.11 46.00 0.8520 14.85 20.61 35.46 56.00 0.8520 -1.58 20.61 19.03 46.00 1.0275 -6.98 20.67 13.69 46.00 2.5620 10.67 20.60 31.27 56.00 2.6160 -2.52 20.60 18.08 46.00 3.5160 -6.97 20.59 13.62 46.00 3.5340 8.29 20.59 28.88 56.00	(MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) 0.4200 10.75 20.56 31.31 57.45 -26.14 0.5415 -6.21 20.52 14.31 46.00 -31.69 0.5685 13.02 20.52 33.54 56.00 -22.46 0.6809 10.80 20.54 31.34 56.00 -24.66 0.8205 -0.48 20.59 20.11 46.00 -25.89 0.8520 14.85 20.61 35.46 56.00 -20.54 0.8520 -1.58 20.61 19.03 46.00 -26.97 1.0275 -6.98 20.67 13.69 46.00 -32.31 2.5620 10.67 20.60 31.27 56.00 -24.73 2.6160 -2.52 20.60 18.08 46.00 -27.92 3.5160 -6.97 20.59 13.62 46.00 -32.38 3.5340 8.29 20.59 28.88 56.00 -	(MHz) (dBuV) (dB) (dBuV) (dBuV) (dB) Detector 0.4200 10.75 20.56 31.31 57.45 -26.14 QP 0.5415 -6.21 20.52 14.31 46.00 -31.69 AVG 0.5685 13.02 20.52 33.54 56.00 -22.46 QP 0.6809 10.80 20.54 31.34 56.00 -24.66 QP 0.8205 -0.48 20.59 20.11 46.00 -25.89 AVG 0.8520 14.85 20.61 35.46 56.00 -20.54 QP 0.8520 -1.58 20.61 19.03 46.00 -26.97 AVG 1.0275 -6.98 20.67 13.69 46.00 -32.31 AVG 2.5620 10.67 20.60 31.27 56.00 -24.73 QP 2.6160 -2.52 20.60 18.08 46.00 -32.38 AVG 3.5340 8.29 <t< td=""></t<>

Note1:

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 (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.

Page 15 of 23

ac-MRA

"Malalalak



World Standardization Certification & Testing Group (Shenzhen) Co., ltd.

W5C

Report No.: WSCT-ANAB-R&E240800040A-15B

7.3. RADIATED EMISSION MEASUREMENT

7.3.1. Radiated Emission Limits

The field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

	Frequencies	Field Strength	Measurement Distance
1	(MHz)	(micorvolts/meter)	(meters)
	0.009~0.490	2400/F(KHz)	300
	0.490~1.705	24000/F(KHz)	30
	1.705~30.0	30	30
ľ	75 [T] 30~88 W5 [100 W 5 C 7	W35 ET
	88~216	150	3
	216~960	200	3
	Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

Limit (dBuV/m) (at 3M) FREQUENCY (MHz) **PEAK AVERAGE** Above 1000 74 54

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15B.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

	Spectrum Parameter	Setting	7
/	Attenuation	Auto	7 /
	Start Frequency	1000 MHz	
	Stop Frequency	10th carrier harmonic	
	RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average	

Receiver Parameter	Setting	X
Attenuation	Auto	
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP	V5 C
Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP	
Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP	

W5ET®





Report No.: WSCT-ANAB-R&E240800040A-15B

W5CT

TEST PROCEDURE

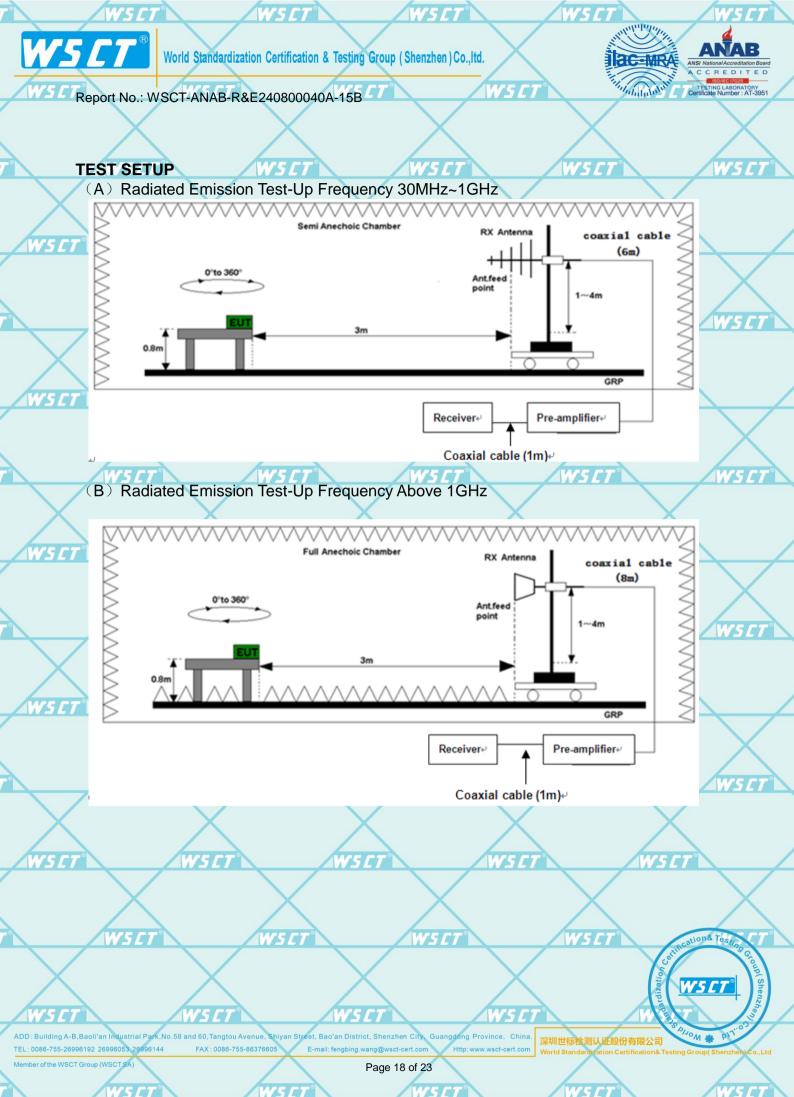
- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For W5 LT frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution antenna shall be 0.8 m; the height of the test antenna shall vary between 1 m to 4 m. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.

WSEI	performed. f. For the actual test	ed to meet QP Limits and configuration, please refe	r to the related Item –El	JT Test Photos.	ET .
	WSET	W5 CT°	WSET	WSET	WSET
WSEI	WSL	T WSE	T WS	77 W.5	ET .
	WSET	W5 CT°	WSET [®]	WSET	WSET
WSCI	WSI	T WSL		GT WS	CT
	WSET	WSET	WSET	WSET	WSET
WSCI	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$			
	WSET	WSET	WSET		attications Testino CT
WSEI				ardizatio	WS CT
ADD: Building A-B	Baoli'an Industrial Park, No.58 and 60, Tar	ngtou Avenue, Shiyan Street, Bao'an District, 1 86-755-86376605 E-mail: fengbing.wan	Shenzhen City, Guangdong Province, Chi	ina. 深圳世标检测认证股份有限公司	SPINOM # PHIOS

lember of the WSCT Group (WSCT SA

Page 17 of 23

W5CT W





W5 CI



Report No.: WSCT-ANAB-R&E240800040A-15B

WSCI

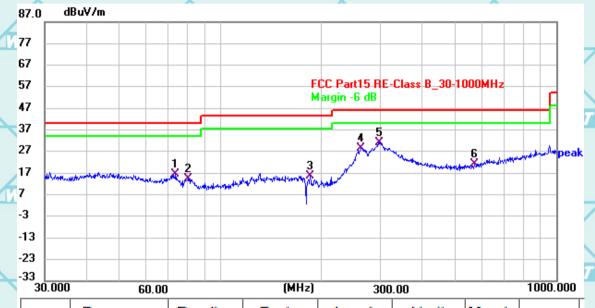
7.3.2. Test Results

Temperature	20 ℃ / W5 <i>[</i>]	Relative Humidity	48% W5 (1)	W5 CT
Pressure	1010 hPa	Test Mode	Mode 2	

Please refer to following diagram for individual

Below 1GHz W5 CT

Horizontal:



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	73.8756	39.45	-23.16	16.29	40.00	-23.71	QP
2	80.4324	38.24	-24.01	14.23	40.00	-25.77	QP
3	185.5441	38.54	-22.69	15.85	43.50	-27.65	QP
4	263.0108	50.22	-21.54	28.68	46.00	-17.32	QP
5 *	297.2241	51.51	-20.34	31.17	46.00	-14.83	QP
6	572.3635	35.86	-14.54	21.32	46.00	-24.68	QP

TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605

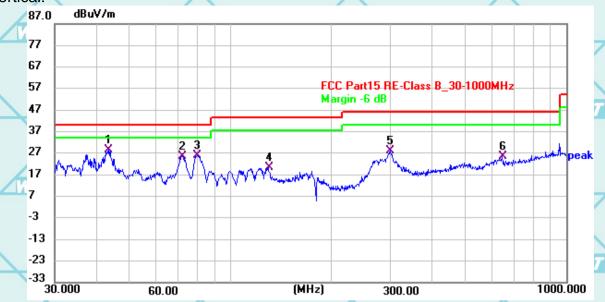
深圳世标检测认证股份有限公司 Page 19 of 23

ation& Test



Report No.: WSCT-ANAB-R&E240800040A-15B

Vertical:



<u> </u>								_
No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector	
1 *	43.6011	47.44	-18.89	28.55	40.00	-11.45	QP	
2	71.8949	48.26	-22.56	25.70	40.00	-14.30	QP	7
3	79.9754	50.09	-23.97	26.12	40.00	-13.88	QP	
4	129.9226	41.02	-20.61	20.41	43.50	-23.09	QP	
5	299.7097	48.15	-20.19	27.96	46.00	-18.04	QP	
6	647.1019	38.41	-12.88	25.53	46.00	-20.47	QP	

Note1:

Freq. = Emission frequency in MHz

Reading level (dBµV) = 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)

WS CT

W5 C7

TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605

深圳世标检测认证股份有限公司

World Standardization Certific

World Standardization Certification & Testing Group (Shenzhen) Co., ltd.





5 C Report No.: WSCT-ANAB-R&E240800040A-15B

W5CT[®]

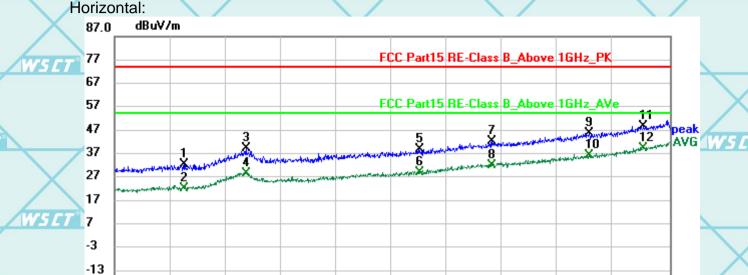
TEST RESULTS

-23

Above 1GHz(1~26GHz) :(Mode 2—worst case) / 5 LT

4W5LI

W5 CT



-33 | 1000.000 2000.000 3000.000 (MHz) 4500.000 6000.000

VS CT	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	_
	1	1629.375	39.58	-7.37	32.21	74.00	-41.79	peak	
	2	1629.375	29.63	-7.37	22.26	54.00	-31.74	AVG	4
	3	2186.875	40.72	-1.58	39.14	74.00	-34.86	peak	4/
X	4	2186.875	29.93	-1.58	28.35	54.00	-25.65	AVG	
VECT	5	3741.250	38.73	-0.12	38.61	74.00	-35.39	peak	
<i>V5 </i>	6	3741.250	29.25	-0.12	29.13	54.00	-24.87	AVG	
	7	4405.000	39.43	2.61	42.04	74.00	-31.96	peak	
	8	4405.000	29.18	2.61	31.79	54.00	-22.21	AVG	1
$\overline{}$	9	5278.750	39.51	6.16	45.67	74.00	-28.33	peak	
\times	10	5278.750	30.12	6.16	36.28	54.00	-17.72	AVG	
V5 CT	11	5767.500	40.56	8.25	48.81	74.00	-25.19	peak	
	12 *	5767.500	30.84	8.25	39.09	54.00	-14.91	AVG	

W5CT

WSIT

WSIT

AWS CT

WSCT WSCT

AWS CT

WSCT

AWS CT

MJLI

ADD: Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, Chir TEL: 0086-755-26996192 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http://www.wsct-cert.com

深圳世标检测认证股份有限公司

WEE

Page 21 of 23

SET WSET



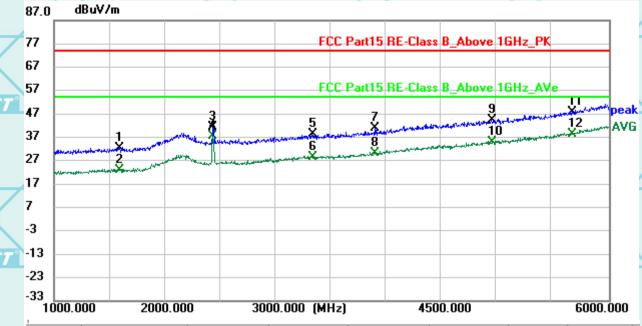


W5 C

W5 [7] Report No.: WSCT-ANAB-R&E240800040A-15B

W5CT°

Vertical:



	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	1595.000	39.90	-7.41	32.49	74.00	-41.51	peak	
2	2	1595.000	30.20	-7.41	22.79	54.00	-31.21	AVG	
	3	2439.375	45.30	-3.91	41.39	74.00	-32.61	peak	
	4	2439.375	41.36	-3.91	37.45	54.00	-16.55	AVG	
4	5	3328.125	40.02	-1.53	38.49	74.00	-35.51	peak	
	6	3328.125	30.01	-1.53	28.48	54.00	-25.52	AVG	
	7	3898.125	40.32	0.55	40.87	74.00	-33.13	peak	
	8	3898.125	29.47	0.55	30.02	54.00	-23.98	AVG	
	9	4946.875	39.33	4.99	44.32	74.00	-29.68	peak	
	10	4946.875	29.84	4.99	34.83	54.00	-19.17	AVG	
	11	5680.000	40.31	7.65	47.96	74.00	-26.04	peak	
	12 *	5680.000	30.67	7.65	38.32	54.00	-15.68	AVG	

X

Remark: W5CT

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

W5CT°

Freq. = Emission frequency in MHz

Factor = Antenna Factor + Cable Loss - Pre-amplifier.

Over= Emission Level - Limit.

All the x/y/z orientation has been investigated, and only worst case is presented in this report,

WSIT

WSCT

IWSCT

WSET

www.wsct-cert.com World

深圳世标检测认证股份有限公司
World Standardization Certification& Testing Group(St

TEL: 0086-755-26996192 26996053 26996144

Page 22 of 23

FAX: 0086-755-86376605





Test Setup Photographs 8.

Please refer to the attachment "Set Up Photos-15B" for relevant test setup photos



W5C

****END OF REPORT****	

WS CI

W5 C