

WSET

TEST REPORT

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FCC ID: 2AXYP-OSW-813N

Product: Smart Watch

Model No.: OSW-813N

Trade Mark: oraimo

Report No.: WSCT-ANAB-R&E241000053A-15B

Issued Date: 01 November 2024

Issued for:

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

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Issued By:

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.

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Test Certification

Product: Smart Watch

Model No.: **OSW-813N**

Additional Model:

oraimo

Applicant:

ORAIMO TECHNOLOGY LIMITED

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

SHAN MEI STREET FOTAN NT HONGKONG

ORAIMO TECHNOLOGY LIMITED Manufacturer:

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

SHAN MEI STREET FOTAN NT HONGKONG

Date of receipt:

10 October 2024

11 October 2024 ~ 31 October 2024

Applicable Standards:

Date of Test:

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.

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Tested By:

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Checked By:

(Qin Shuiquan)

Approved By:

Date: O Novem

(Li Huaibi)

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2. GENERAL DESCRIPTION OF EUT

	Product Name:	Smart Watch WSET WSET	15 E I
1	Model :	OSW-813N	
	Trade Mark:	oraimo	
<i>51</i>	Software version:	V1.0	
	Hardware version:	RH307L_V01	/5 <i>C</i>
/	Operating Voltage	Li-ion Polymer Battery: 552123V Capacity:300mAh/3.8V/1.140Wh	
	Remark:	N/A.	
57	Note: 1 N/A s	tands for no applicable	

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

	2. Antenna gain p	rovided by the applic	cant	X	X
	WS CT V	VSET	W5LT°	WSCT	WSET
WSET	WSET	WSET	WSET	WSE	7°
	\times	\times	WSCT	W5 LT	WSET
WSET	WSET	WSET	WSET	WSE	7
	\times	X	WSCT	WSET	WSET
WSCT	WSET	WSET	WSET	WSE	
	\times	VS ET	WSCT	X	X
				Care	cations Testino Go

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Test Result Summary 3.

1			
1	Requirement	CFR 47 Section	Result
	CONDUCTED EMISSION	§15.107	PASS
0	RADIATED EMISSION	W5 ET §15.109 W5 ET	PASS/5[T]

				W5CT
	Requirement	CFR 47 Section	Result	
	CONDUCTED EMISSION	§15.107	PASS	
W5 CT	RADIATED EMISSION	WSET §15.109 WSET	PASS/5CT	
	Note: 1. PASS: Test item meets the require	ement. W5 [T]	WSET	W5CT°
	2. Fail: Test item does not meet the	requirement.		
	3. N/A: Test case does not apply to			
W5ET*	4. The test result judgment is decide	ed by the limit of test standard.	W5 ET	
WSET	WS ET WS E	WSET WSET	WS CT WS CT	WSET*
	WS ET WS E		WSET	WSET
WSCT	WSET	WSCT WSCT	WSCT	
	W5CT W5C		WSET	WSET
WSCT	WSCT	WSET WSET	W5 ET	
	\times		X	X

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4. TEST METHODOLOGY

To investigate the maximum EMI emission characteristics generates from EUT, the test 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.

7			
	Pretest Mode	Description	
75	Mode 1	Charging	/
	Mode 2	Bluetooth	7
	Mode 3	Bluetooth + charging	

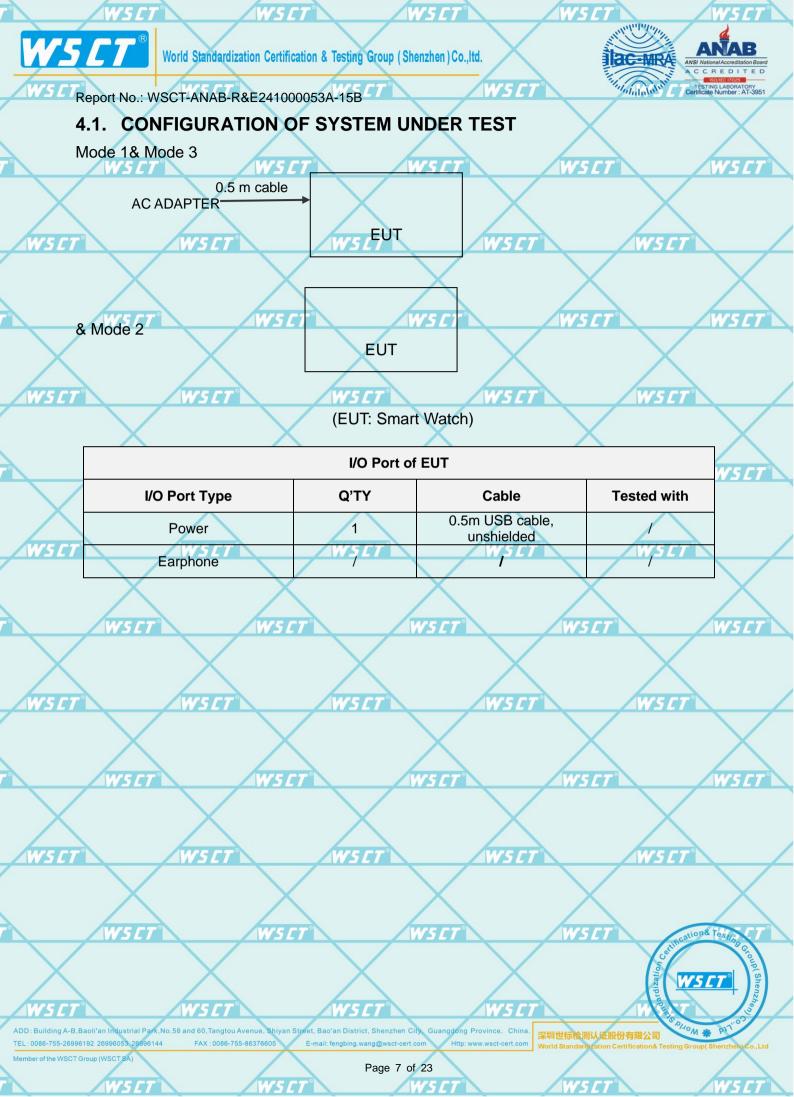
Note: Bluetooth earphones cannot be turned on while charging in the charging compartment.

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W5 ET	WSE	WS	GT W	SET	WSET
WSET	WSET	WSET	WSET	WSET	
WSET	WSEI	$\langle \ \rangle$		VSCT*	WSET
WSET	WSET	W5 CT	WSET	WSCT	
WSET	WSET	WS	GT V	VSET .	WSET
WSET	WSET	WSET	WSET	WSCT	
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WSET	WSET	WSET	WSET	VSET Outrocair	SET Shenzhou)
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4.2. DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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

L'I	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note	-
	1	Adapter	//	<u> </u>	V	/	
	2	Keyboard				/	1
	3	Mouse	W5CT	WSCT	W5CT		C

Note:

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- (1) The support equipment was authorized by Declaration of Confirmation.
- W5 LT (2) For detachable type I/O cable should be specified the length in cm in Length column.

W.S	ET WS	ET W	SET	WSET	W5 CT
W5 CT	WSET	WSCT	WSET	WSET	
WS		$\langle \hspace{0.1cm} \rangle$	\times	W5 CT	WSET
W5 CT °	WSET	WSCT	WSET	WSET	
WS				W5 ET	WSET
W5 CT	WSCT	WSCT	WSET	WSET	
WS		$\langle \hspace{0.1cm} \rangle$	X	\times	X
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5. MEASUREMENT INSTRUMENTS

Kind of	Equipment 1	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	ET
Test soft	tware		EZ-EMC	CON-03A	-	\ <u>-</u>	
ESCI Test F	Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
W5LT LIST	WSET	AFJ W	5 <i>E T</i> LS16	16010222119	11/05/2023	11/04/2024	
LISN(E	UT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	
pre-amp	olifier	CDSI	PAP-1G18-38	-	11/05/2023	11/04/2024	
System Co	ontroller	W CT 7°	SC1005_7	-	11/05/2023	11/04/2024	ET
Bi-log An	tenna	Chase	CBL6111C	2576	11/05/2023	11/04/2024	
Spectrum a	analyzer	R&S	FSU26	200409	11/05/2023	11/04/2024	
W5 Horn Ant	tenna / SC	HWARZBECK	5 _ 7 9120D	1141	11/05/2023	11/04/2024	
Bi-log An	tenna SC	HWARZBECK	VULB9168	01488	7/29/2023	7/28/2024	
Pre Amp	olifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	X
9*6*6 And	echoic	W5ET	WSET	. /	11/05/2023	11/04/2024	S C T

WSCT	W5 ET	WSET	W5 CT	WSET	
WS	$\langle \hspace{0.1cm} \rangle$	$\langle \hspace{0.1cm} \rangle$			WS CT
WSCT	W5 ET	WSET	WS CT	WSET	,
WS					WS ET
WSET	WSET	WSET	WSET	WSET	,

WSET WSET WSET WSET SELECTION TO SELECTION OF THE SELECTI

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6. Facilities and Accreditations

6.1. Facilities

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

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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."

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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

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6.3. Measurement Uncertainty

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

No.	Item	MU
1	Conducted Emission Test W5 [7] W5 [7]	±3.2dB/5 <i>[T]</i>
2	RF power, conducted	±0.16dB
3	Spurious emissions, conducted	±0.21dB
4	All emissions, radiated(<1GHz)	±4.7dB
5	All emissions, radiated(>1GHz)	±4.7dB
6	Temperature W5ET W5ET	±0.5°CV5
7	Humidity	±2.0%
	1 2 3 4 5	Conducted Emission Test W5 CT RF power, conducted Spurious emissions, conducted All emissions, radiated(<1GHz) All emissions, radiated(>1GHz) Temperature W5 CT W5 CT

	7 Humidity	\times	\times	±2.0%	\times
	WSET	WSET®	W5 CT°	W5CT°	WSET
		\times			
WSET	WSET	WSE	W5	ET WS	CT°
	$\overline{}$		X		
	W5 CT	WSET	WSET	WSET	WSET
		X			
WSET	WSET	WSE	W5	ET WS	ET.
	WSET	WSET*	WSET	W5ET*	WS ET*
WSET	WSCT	WSC	W5	ET WS	

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EMC EMISSION TEST 7.

7.1. CONDUCTED EMISSION MEASUREMENT

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7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

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1 А	////-	- /		,

_		279			(A)	and the second second	A
FREQUENCY (MHz)		Class A (dBuV)		Class B (dBuV)		Standard	-
	FREQUENCT (MINZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru	
	0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC	1
	W 5 0.50 -5.0	73.00	60.00	56.00	46.00	FCC	
-	5.0 -30.0	73.00	60.00	60.00	50.00	FCC	

Note:

W5 C7 (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.

The following table is the setting of the receiver

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

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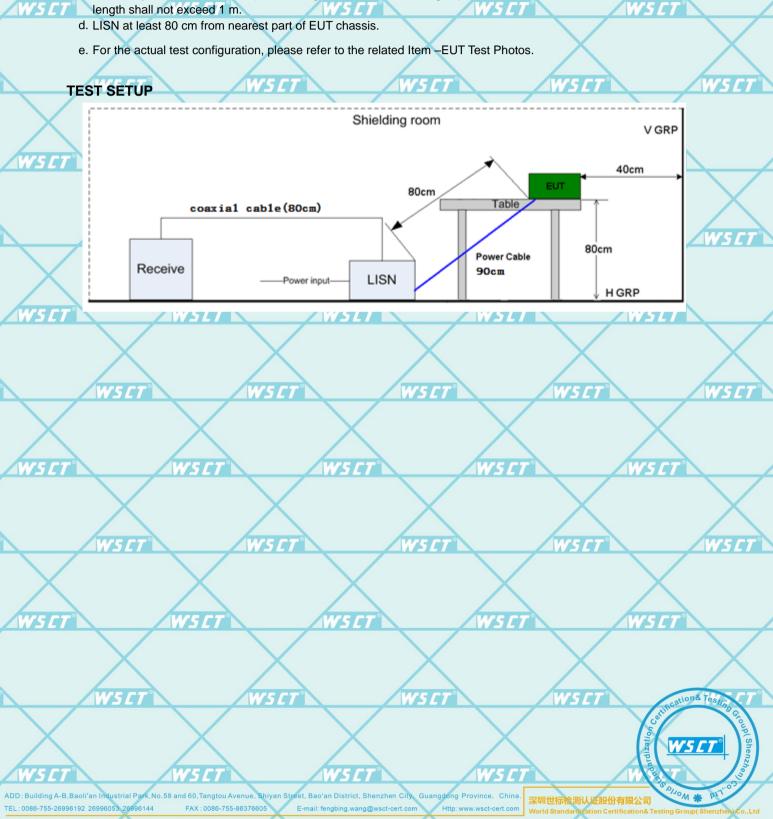


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TEST PROCEDURE

- 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. /W5ET



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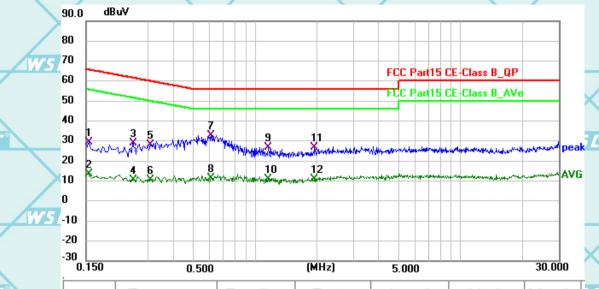
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7.2.Test Results

			Annual Control of the		Account to the same of the sam
,	Temperature	20 °C ₩5-1	Relative Humidity	48%	WSCT"
	Pressure	1010 hPa	Test Mode	Mode 3	

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



4	6	LA	

	No.	Frequency	Reading	Factor	Level	Limit	Margin	ET
	INO.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	
	1	0.1545	8.71	20.73	29.44	65.75	-36.31	
57	2	0.1545	-7.41	20.73	13.32	55.75	-42.43	
	3	0.2535	8.19	20.66	28.85	61.64	-32.79	
	4	0.2535	-10.05	20.66	10.61	51.64	-41.03	
	5	0.3075	7.39	20.63	28.02	60.04	-32.02	ET"
	6	0.3075	-10.32	20.63	10.31	50.04	-39.73	
	7 *	0.6090	12.43	20.53	32.96	56.00	-23.04	
57	8	0.6090	-8.98	20.53	11.55	46.00	-34.45	
	9	1.1625	6.21	20.66	26.87	56.00	-29.13	
	10	1.1625	-9.88	20.66	10.78	46.00	-35.22	
	11	1.9410	6.33	20.61	26.94	56.00	-29.06	ET
×	12	1.9410	-9.70	20.61	10.91	46.00	-35.09	

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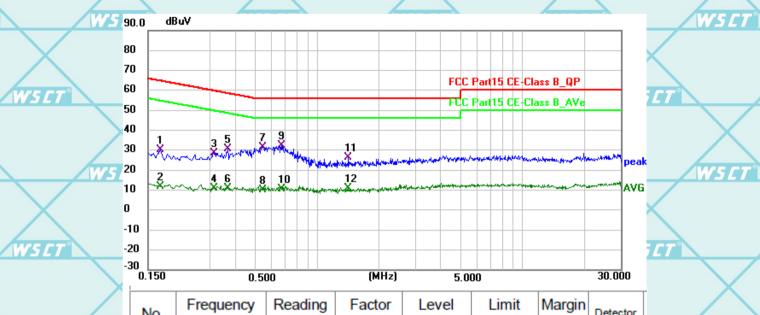




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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



No.	Frequency (MHz)	Reading (dBuV)	Factor (dB)	Level (dBuV)	Limit (dBuV)	Margin (dB)	Detector
1	0.1725	9.54	20.71	30.25	64.84	-34.59	QP
2	0.1725	-8.79	20.71	11.92	54.84	-42.92	AVG
3	0.3120	7.84	20.62	28.46	59.92	-31.46	QP
4	0.3120	-9.56	20.62	11.06	49.92	-38.86	AVG
5	0.3660	10.07	20.59	30.66	58.59	-27.93	QP
6	0.3660	-9.81	20.59	10.78	48.59	-37.81	AVG
7	0.5415	11.02	20.52	31.54	56.00	-24.46	QP
8	0.5415	-10.30	20.52	10.22	46.00	-35.78	AVG
9 *	0.6720	11.75	20.54	32.29	56.00	-23.71	QP
10	0.6720	-9.88	20.54	10.66	46.00	-35.34	AVG
11	1.4190	5.52	20.64	26.16	56.00	-29.84	QP
12	1.4190	-9.64	20.64	11.00	46.00	-35.00	AVG

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

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

Q.P. =Quasi-Peak AVG =average

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

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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
-	(MHz)	(micorvolts/meter)	(meters)
	0.009~0.490	2400/F(KHz)	300
	0.490~1.705	24000/F(KHz)	30
1	1.705~30.0	30	30
V	30~88 W5L	100 // 5 //	W3.7
	88~216	150	3
	216~960	200	X 3 X
	Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)			
FREQUENCT (MITZ)	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
_	Attenuation	Auto
	Start Frequency	1000 MHz
	Stop Frequency	10th carrier harmonic
	RB / VB (emission in restricted band)	5 C 7 1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average
	Danu)	

	Receiver Parameter	Setting	X
	Attenuation	Auto	
_	W5 Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP	15 L
	Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP	
	Start ~ Stop Frequency	30MHz~1000MHz / RB 120kHz for QP	

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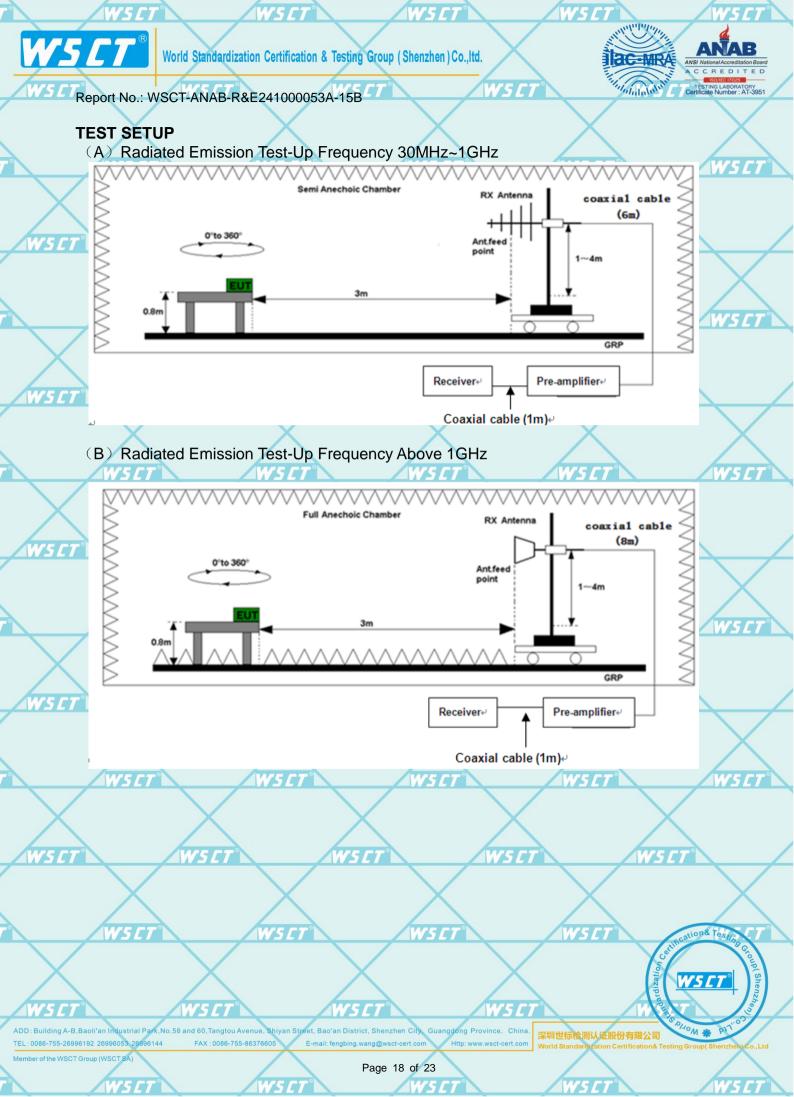
TEST PROCEDURE

- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For 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.
 - f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

	WSET	WSET	WSET	W5 CT	WSET	
	WSET		$\langle \hspace{0.1cm} \rangle$	\times	V5ET°	WSET
	WSET	WSET	WSET	WSET	WSET	
	WSCT		$\langle \hspace{0.1cm} \rangle$		WSET	WSCT
	WSET	WSET	WSET	WSET	WSET	
	WSCT				WSET	WS ET
	WSET	WSET	WSET	WSET	WSET	
	WSCT		$\langle \hspace{0.1cm} \rangle$			one test.
	WSET	WSET	WSET	WSCT	A de la	SET
1		k,No.58 and 60,Tangtou Avenue, Shiy	ran Street, Bao'an District, Shenzhen City, E-mail: fengbing.wang@wsct-cert.com	Guangdong Province, China. 深圳世	示检测认证股份有限公司 andard zation Certification& Testing Gr	M # PAT

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W5 CT









Report No.: WSCT-ANAB-R&E241000053A-15B

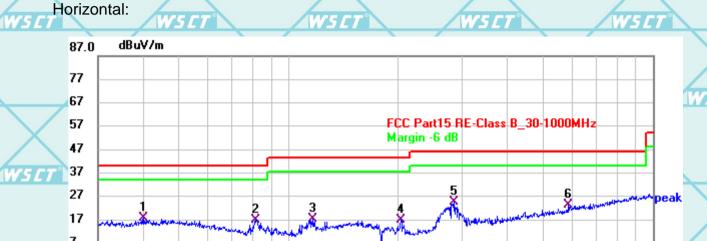
W5 CT

7.3.2. Test Results

Pressure 1010 hPa / 5 / Test Mode Mode 2 / 5 / T	W5C

Please refer to following diagram for individual

Below 1GHz



7 -3 -13 -23 -33 30.000 1000.000 (MHz) 300.00 60.00

	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	1
$\overline{}$	1	40.1875	36.90	-19.04	17.86	40.00	-22.14	QP	
	2	81.7116	40.89	-24.08	16.81	40.00	-23.19	QP	
ET	3	117.1033	39.03	-21.74	17.29	43.50	-26.21	QP	1
	4	204.2377	41.11	-23.99	17.12	43.50	-26.38	QP	
	5 *	284.4775	45.47	-20.80	24.67	46.00	-21.33	QP	
	6	586.8437	37.34	-14.07	23.27	46.00	-22.73	QP	1

WS CI WS CT W5 E1

NS ET

W5 ET

W5CT

World Stand

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W5 [T]





W5 CT

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector
1	71.3300	39.72	-22.44	17.28	40.00	-22.72	QP
2	84.1469	48.81	-23.90	24.91	40.00	-15.09	QP
3 *	113.2170	51.33	-22.10	29.23	43.50	-14.27	QP
4	126.1073	43.25	-20.88	22.37	43.50	-21.13	QP
5	269.6647	39.22	-21.41	17.81	46.00	-28.19	QP
6	515.4374	35.41	-15.15	20.26	46.00	-25.74	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 ($dB\mu V$) = Limit stated in standard

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

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W5 CT

WSET

W5 CT

W5 CT

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AWS CT

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WSET

W5 ET







Report No.: WSCT-ANAB-R&E241000053A-15B

2000.000

WSET"

4500.000

74.00

54.00

74.00

54.00

74.00

54.00

TEST RESULTS

1000.000

7

8

9

10

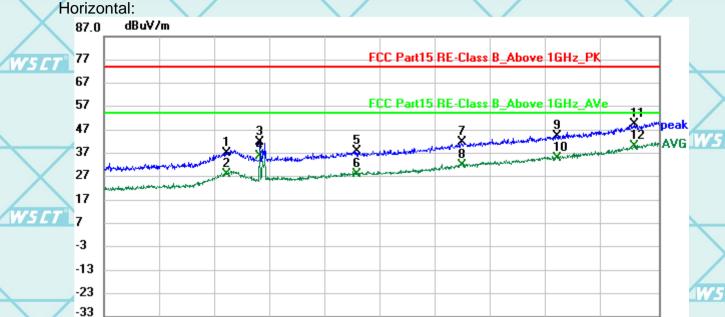
11

12

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

W5CT°

W5CT°



Reading Level Frequency Factor Limit Margin NS C Detector No. (MHz) (dBuV) (dBuV/m) (dBuV/m) (dB) (dB/m) 1 2107.500 38.92 -1.8837.04 74.00 -36.96peak 2 2107.500 29.83 -1.8827.95 54.00 -26.05AVG 3 2407.500 45.78 -4.0641.72 74.00 -32.28peak 4 2407.500 40.04 35.98 54.00 -18.02AVG -4.0637.73 -36.275 3272.500 39.39 -1.6674.00 peak 6 3272.500 29.65 -1.6627.99 54.00 -26.01AVG

1.87

1.87

5.51

5.51

8.32

8.32

3000.000 (MHz)

W5CT

WS CT WS CT

4221.875

4221.875

5081.250

5081.250

5779.375

5779.375

WSCT

41.71

31.80

44.33

35.10

49.60

40.10

AWS CT°

-32.29

-22.20

-29.67

-18.90

-24.40

-13.90

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WSET

WSIT

WSIT

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W5 CT

39.84

29.93

38.82

29.59

41.28

31.78

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WSCT WSCT

6000.000

peak

AVG

peak

AVG

peak

AVG

WSE

W5

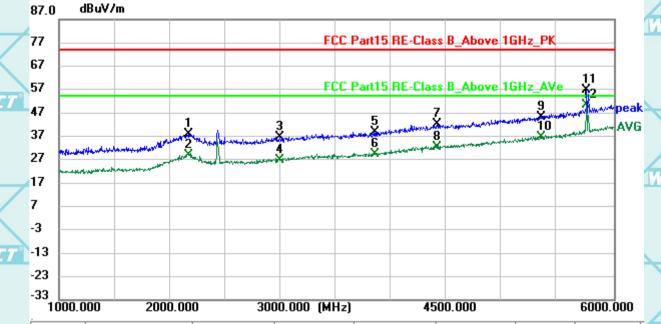




Report No.: WSCT-ANAB-R&E241000053A-15B

(W5 [T ")

Vertical:



-	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	11
	1	2172.500	39.21	-1.42	37.79	74.00	-36.21	peak	
1	2	2172.500	30.44	-1.42	29.02	54.00	-24.98	AVG	1
	3	2991.250	38.93	-2.29	36.64	74.00	-37.36	peak	
	4	2991.250	29.16	-2.29	26.87	54.00	-27.13	AVG	4
1	5	3841.875	38.35	0.30	38.65	74.00	-35.35	peak	La
	6	3841.875	28.92	0.30	29.22	54.00	-24.78	AVG	
	7	4411.250	39.62	2.64	42.26	74.00	-31.74	peak	
	8	4411.250	29.80	2.64	32.44	54.00	-21.56	AVG	
	9	5349.375	38.78	6.39	45.17	74.00	-28.83	peak	
	10	5349.375	30.11	6.39	36.50	54.00	-17.50	AVG	1
	11	5756.875	48.43	8.17	56.60	74.00	-17.40	peak	
	12 *	5756.875	42.32	8.17	50.49	54.00	-3.51	AVG	

Remark:

NSE

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

WSET

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.

W5CT°

AWSET

WSFT

WSFT

WSLT

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-7°

WSCT WSCT





W5C

Test Setup Photographs 8. Please refer to the attachment "Set Up Photos-15B" for relevant test setup photos *****END OF REPORT***** W5 C1 W5E W5C W5C1 W5 CI W5E7 WS C W5 C1

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W5CT