





For Question,
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TEST REPORT

FCC ID: 2AXYP-OSW-805

Product: Smart Watch

Model No.: OSW-805

Trade Mark: oraimo

Report No.: WSCT-A2LA-R&E240600026A-15B

Issued Date: 18 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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Report No.: WSCT-A2LA-R&E240600026A-15B

1. Test Certification

Product: Smart Watch

Model No.: OSW-805

Additional Model:

oraimo

Applicant: ORAIMO TECHNOLOGY LIMITED

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

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: 03 June 2024

Date of Test: 04 June 2024 ~ 17 June 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.

Tested By:

Way Kiay

(Wang Xiang)

Checked By:

(Qin Shuiquan)

Approved By:

(Liu Fuxin)

Date:

8 June

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2. GENERAL DESCRIPTION OF EUT

				www.wsct-c
Product Name:	Smart Watch	WEIGH	WETER	17
Model :	OSW-805			X
Trade Mark:	oraimo	A form		
Software version:	V1.13			144
Hardware version:	Z1650V2.0	WESTER	7270	1
Operating Voltage	Li-ion Battery: 502426 Voltage: 3.7V Rated Capacity: 300mAh Limited Charge Voltage: 4			
Remark:	N/A.			
X	X	X	X	

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

2. Antenna gain provided by the applicant

WEIGH	Wister	WHITE	WEIGH	WEIGH	
	\times				X
NV.	STET MYS	WE	AVI	W.	77
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	\times				X
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3. Test Result Summary

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AUXIMA AUXI	7 1124 (4) (4)	ZULTHE Z
Requirement	CFR 47 Section	Result
CONDUCTED EMISSION	§15.107	PASS
RADIATED EMISSION	§15.109	PASS

WSET	RADIATED EMISSION	§15.109	PASS	/
	Note:	ement.	7579	
X	 PASS: Test item meets the requir Fail: Test item does not meet the N/A: Test case does not apply to 	requirement.	11014	
AVESTEE	4. The test result judgment is decide		WSET	
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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.

1	Pretest Mode	Description
Ş	Mode 1	Charging
	Mode 2	Bluetooth
	Mode 3	Bluetooth + charging

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

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WHO	N/2-1-1-1	WHI	WESTER	174-141
Wister	WS	AVE T	AW.	701
WEIGH	Wister	Water	WISTER	WEIGH
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	WSI	WEIGH	Wister	WASTER
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World Starking Space Commontage (Day Stoup (She	全海认证股份 ADD:Building A-B Baos nzhen) Co. Ltd. TEL:86,755-26998192 2	shi Science & Technology Park, Bao 6992306 FAX 66-755-86376605 E-r	shi Road, Bao'an District, Shenzh nail: Fengbing.Wang@wscl-cert.com	en, Guangdong, China Http://www.wsct-con.com

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4.1. CONFIGURATION OF SYSTEM UNDER TEST

Mode 1& Mode 3

0.5 m cable AC ADAPTER

WSLEUT

& Mode 2

EUT

(EUT: Smart Watch)

		1/0.0					
	I/O Port of EUT						
7	I/O Port Type	Q'TY	Cable	Tested with			
\	Power	1	0.5m USB cable, unshielded				
Z	Earphone	114741	Wig-19	177900			

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DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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.

Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
1	Adapter	itel	U180IED	1	/
2	Keyboard				/
3	Mouse	21774	11/14/	1779	

Note:

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- 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.

	W-19	WATER	NEG	11/19	WHI
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	WHAT	N. FIELD	WHAT	WHAT	WEITE
NV A	W.F.	Wis		Jan W.	191
	WSIGI	Wester	WSI	Wister	WESTER
ATE		W AVE			79
	X	WST	WSTOT	Wister	NIST OF
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MEASUREMENT INSTRUMENTS 5.

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	7
V	Test software	· >	EZ-EMC	CON-03A		V	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
7	LISN W54	AFJ	LS16	16010222119	11/05/2023	11/04/2024	L
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	J
	pre-amplifier	CDSI	PAP-1G18-38	-	11/05/2023	11/04/2024	ſ
	System Controller	W CT 7	SC100-77		11/05/2023	11/04/2024	7
	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2023	11/04/2024	
×	Spectrum analyzer	R&S	FSU26	200409	11/05/2023	11/04/2024	
7	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	×
	9*6*6 Anechoic	17370	17730	- /	11/05/2023	11/04/2024	7

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6. Facilities and Accreditations

6.1. 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."

6.2. ACCREDITATIONS

CNAS - Registration Number: L3732

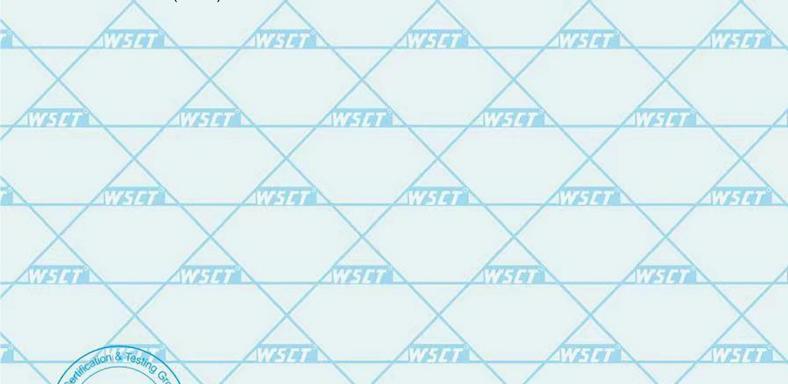
China National Accreditation Service for Conformity Assessment, The test firm Registration Number: L3732

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.

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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6.3. Measurement Uncertainty

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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	±3.2dB
	2	RF power, conducted	±0.16dB
	3	Spurious emissions, conducted	±0.21dB
7	4	All emissions, radiated(<1GHz)	±4.7dB
	5	All emissions, radiated(>1GHz)	±4.7dB
	6	Temperature W507	±0.5°C
	7	Humidity	±2.0%

WHE	1779	1759	NV5191	WHI
	HI WH			191
WHI	NV.FI BY	WEIGH	WESTER	WASTER
	75191 NV51		W.	191
Wester	AVVSTAT	WEIGH	WETER	WESTON
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	WSD	WSTOT	WSIII	WELL
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7. EMC EMISSION TEST

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7.1. CONDUCTED EMISSION MEASUREMENT

7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

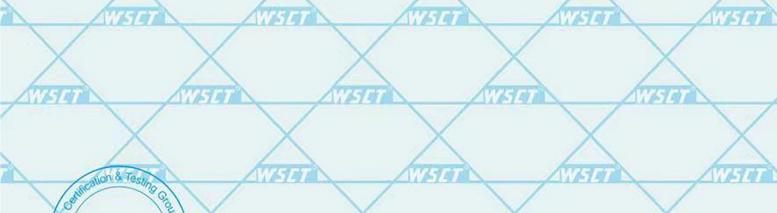
	The state of the s	A T T of soft soft soft soft		2 I I I I J all me all		AND THE SECOND SHOW AND AND ADDRESS.
	FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard
	FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
	0.15 -0.5	79.00	66.00	66 - 56 *	56 - 46 *	FCC
	0.50 -5.0	73.00	60.00	56.00	46.00	FCC
-	5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

- (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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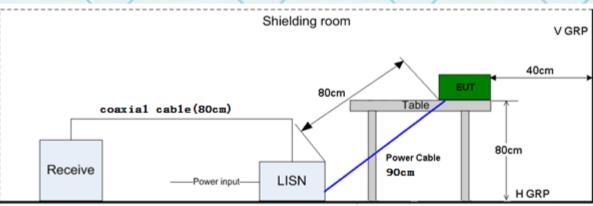
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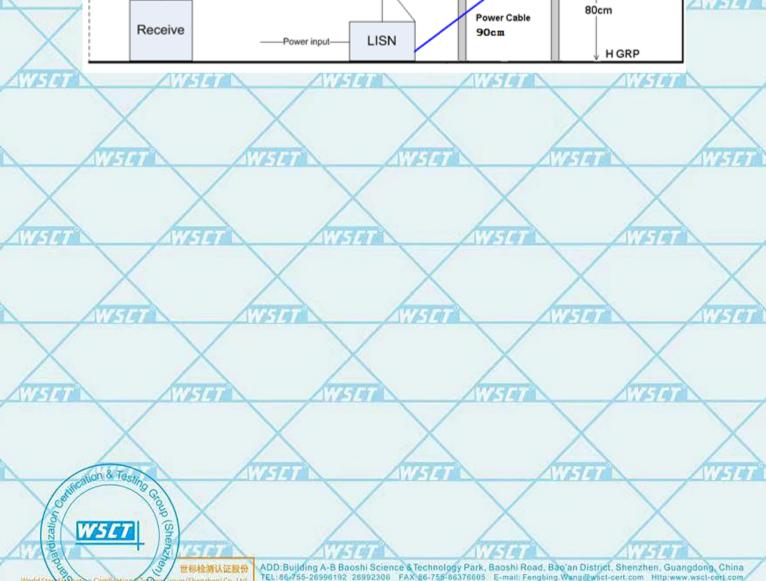
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TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mainsww.wsct-cort.com 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.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

TEST SETUP





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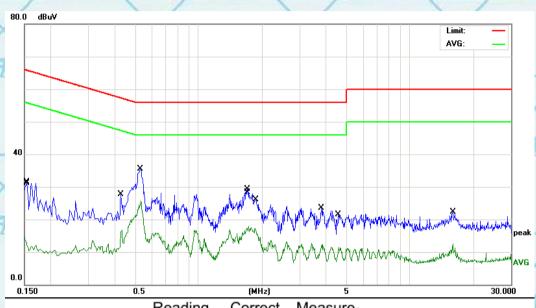
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7.2.Test Results

7	Temperature	20 ℃	Relative Humidity	48%
	Pressure	1010 hPa	Test Mode	Mode 3

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



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
>			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1500	4.18	10.45	14.63	55.99	-41.36	AVG
	2		0.1539	21.02	10.45	31.47	65.78	-34.31	QP
	3		0.4300	17.10	10.50	27.60	57.25	-29.65	QP
	4		0.5299	25.01	10.52	35.53	56.00	-20.47	QP
	5	*	0.5340	15.11	10.52	25.63	46.00	-20.37	AVG
>	6		1.7060	18.55	10.66	29.21	56.00	-26.79	QP
,	7		1.7300	7.19	10.67	17.86	46.00	-28.14	AVG
	8		1.8540	6.60	10.69	17.29	46.00	-28.71	AVG
ľ	9		3.8100	12.74	10.73	23.47	56.00	-32.53	QP
	10		4.6020	0.82	10.74	11.56	46.00	-34.44	AVG
	11		15.9340	11.09	11.17	22.26	60.00	-37.74	QP
2	12		15.9340	1.27	11.17	12.44	50.00	-37.56	AVG

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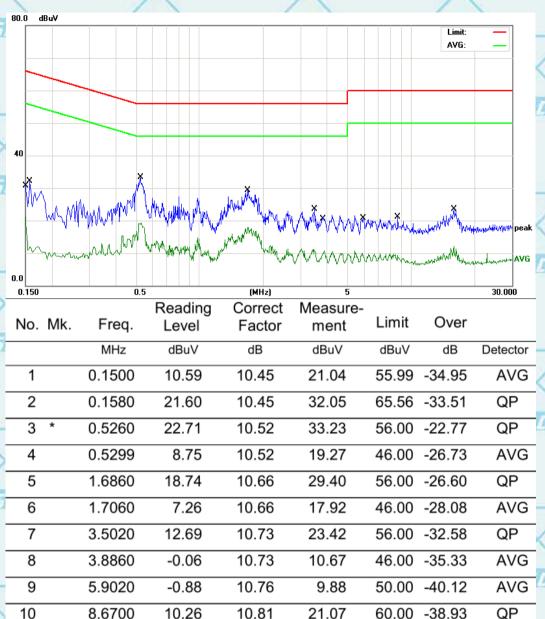






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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz) Please Contact with WSCT www.wsct-cert.com



Note1:

11 12

Freq. = Emission frequency in MHz

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

15.9060

15.9780

Corr. Factor (dB) = LISN Factor + Cable loss

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

1.02

12.35

Limit (dBµV) = Limit stated in standard

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

Q.P. =Quasi-Peak AVG =average

11.17

11.17

12.19

23.52

50.00 -37.81

60.00 -36.48

AVG

QP

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^{*} 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

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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
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	X 3
Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBuV/m) (at 3M)		
	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)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average

Receiver Parameter	Setting
Attenuation	Auto
Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP
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.

			17-7-4		
WET	N. A. W.	NVE		700	WET 4
WETET	Wister	WSU	Wister	Wester	
WET				741	116741
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WEI		THE WE		1741	113-140
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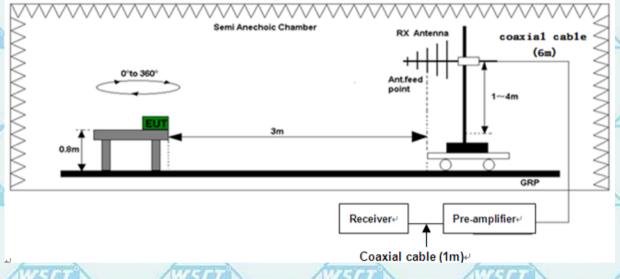
Report No.: WSCT-A2LA-R&E240600026A-15B

Certificate #5768.01

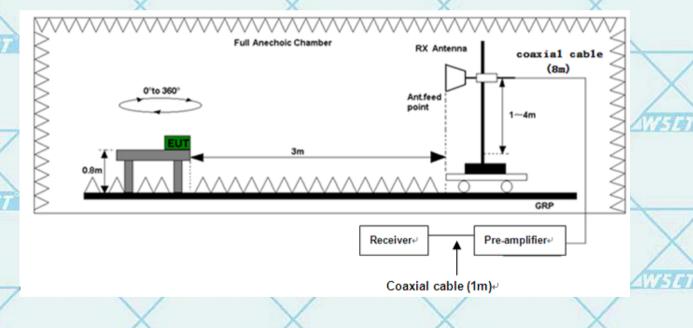
For Question,
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TEST SETUP

(A) Radiated Emission Test-Up Frequency 30MHz~1GHz



(B) Radiated Emission Test-Up Frequency Above 1GHz



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ADD:Building A-B Baoshi Science & Technology Park, Baoshi Road, Bao an District, Shenzhen, Guangdong, China TEL:86-755-26996192 26992306 FAX 66-755-86376605 E-mail: Fengbing.Wang@wscl-cert.com Http://www.wscl-cert.com









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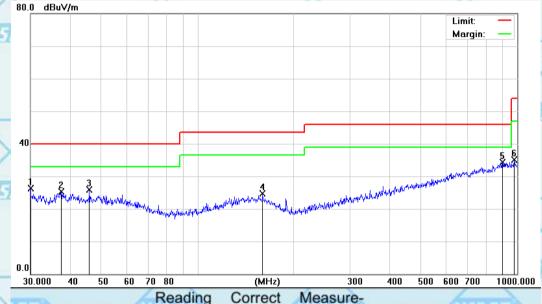
7.3.2. Test Results

Temperature		20 ℃	Relative Humidity	48%	1
	Pressure	1010 hPa	Test Mode	Mode 2	

Please refer to following diagram for individual

Below 1GHz

Horizontal:



	No.	Mk.	Freq.	Level	Factor	ment	Limit	Over	THE N
Ġ			MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
	1	1	30.0000	28.89	-2.60	26.29	40.00	-13.71	QP
	2	1	37.4165	27.18	-1.80	25.38	40.00	-14.62	QP
	3		45.8553	27.88	-2.00	25.88	40.00	-14.12	QP
>	4		159.7844	26.40	-1.65	24.75	43.50	-18.75	QP
	5	*	900.1474	26.78	7.60	34.38	46.00	-11.62	QP
7	6		979.1804	26.66	8.36	35.02	54.00	-18.98	QP

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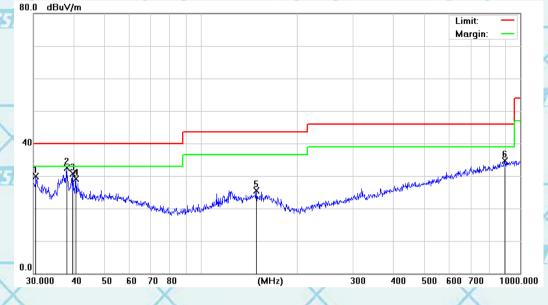


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Vertical:



	Over
	dB Detector
2 * 38.0783 34.16 -1.69 32.47 40.00 -	10.09 QP
2) 55.51.55	7.53 QP
3 39.8542 32.08 -1.46 30.62 40.00 -	9.38 QP
4 40.7016 30.55 -1.52 29.03 40.00 -1	10.97 QP
5 149.4857 27.27 -1.72 25.55 43.50 -1	17.95 QP
6 893.8567 27.12 7.49 34.61 46.00 -1	11.39 QP

Note1:

Freq. = Emission frequency in MHz

Reading level (dBµV) = 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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AWSET

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TEST RESULTS

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

	No.	Frequency(MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna	Verdict
Z.	1	1555.87	46.34	-15.05	74	27.66	Peak	Vertical	Pass
	1*	1555.87	36.41	-15.05	54	17.59	AV	Vertical	Pass
	2	2720.68	36.75	-9.02	74	37.25	Peak	Vertical	Pass
	2* /	2720.68	27.37	-9.02	54	26.63	AV	Vertical	Pass
	3	3930.58	49.68	-2.01	74	24.32	Peak	Vertical	Pass
/	3*	3930.58	40.51	-2.01	54	13.49	AV	Vertical	Pass
	4	5027.35	33.70	1.38	74	40.30	Peak	Vertical	Pass
	4*	5027.35	23.71	1.38	54	30.29	AV	Vertical	Pass
ý	5	5019.08	44.44	3.64	74	29.56	Peak	Vertical	Pass
	5*	5019.08	34.96	3.64	54	19.04	AV	Vertical	Pass
	6	13835.38	44.70	5.29	74	29.30	Peak	Vertical	Pass
	6*	13835.38	35.50	5.29	54	18.50	AV	Vertical	Pass

	1	F19	Z111-7-7-9-10-1				- 1		
/	No.	Frequency(MHz)	Results (dBuV/m)	Factor (dB)	Limit (dBuV/m)	Margin (dB)	Detector	Antenna	Verdict
	1	2643.47	33.02	-9.65	74	40.98	Peak	Horizontal	Pass
ď	1*	2643.47	23.38	-9.65	54	30.62	AV	Horizontal	Pass
	2	3863.40	34.64	-1.44	74	39.36	Peak	Horizontal	Pass
	2*	3863.40	24.91	-1.44	54	29.09	AV	Horizontal	Pass
	3	4519.39	49.88	0.69	74	24.12	Peak	Horizontal	Pass
	3*	4519.39	40.43	0.69	54	13.57	AV	Horizontal	Pass
/	4	5739.03	48.64	2.36	74	25.36	Peak	Horizontal	Pass
	4*	5739.03	39.39	2.36	54	14.61	AV	Horizontal	Pass
	5	7136.12	37.31	1.73	74	36.69	Peak	Horizontal	Pass
望	5*	7136.12	28.22	1.73	54	25.78	AV	Horizontal	Pass
	6	13824.81	34.14	5.96	74	39.86	Peak	Horizontal	Pass
	6*	13824.81	24.22	5.96	54	29.78	AV	Horizontal	Pass

Remark:

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

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.



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Test Setup Photographs 8.

Please refer to	the attachment "Se	t Up Photos-15B" for	relevant test setup ph	notos AVA
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