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





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TEST REPORT

FCC ID: 2AXYP-OSW-850H Product: Smart Watch Model No.: OSW-850H Trade Mark: oraimo Report No.: WSCT-A2LA-R&E240400021A-15B Issued Date: 20 May 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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Test Certification



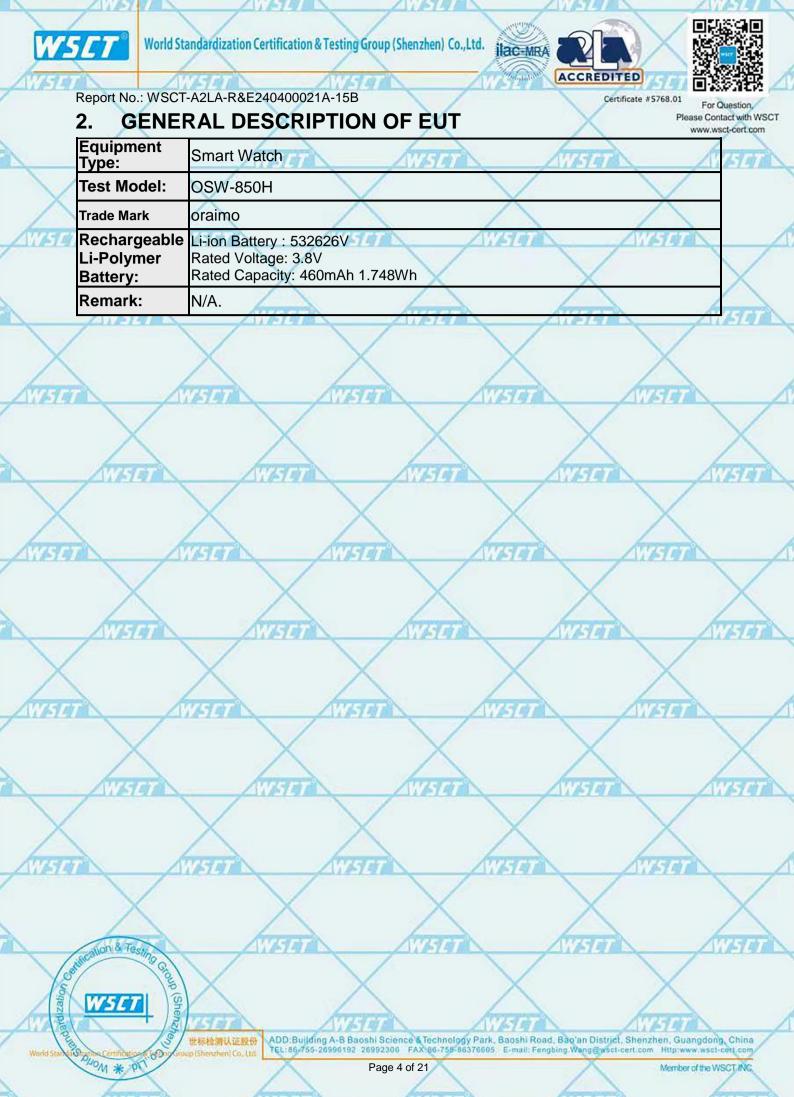


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/	Product:	Smart Watch WSET WSET WSET
	Model No.:	OSW-850H
	Trade Mark:	oraimo
2	Applicant:	ORAIMO TECHNOLOGY LIMITED
	Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
1	Manufacturer:	ORAIMO TECHNOLOGY LIMITED
~	Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
	Date of Test:	29 April 2024 to 19 May 2024
	Applicable Standards:	FCC CFR Title 47 Part 15 Subpart B
1	The above equin	ment has been tested by World Standardization Certification & Testing

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:	Way Xiay (Wang Xiang)	Checked By:	(Mo Peiyun)	n Terr
Approved By:	Linfuen	WSCT Date:	May story oc	WSET
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SC WSCT	世标检测认证股份 ADD:Building A-B.Baoshi S		aoshi Road,Baoan District, Shenzh E-mail:fengbing.wang@wscl-cert.com	
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3. Test Result Summary

	AULTRA AULTRA		Allester /	WELT N
7	Requirement	CFR 47 Section	Result	
	CONDUCTED EMISSION	§15.107	PASS	
2	RADIATED EMISSION	§15.109	PASS	- /

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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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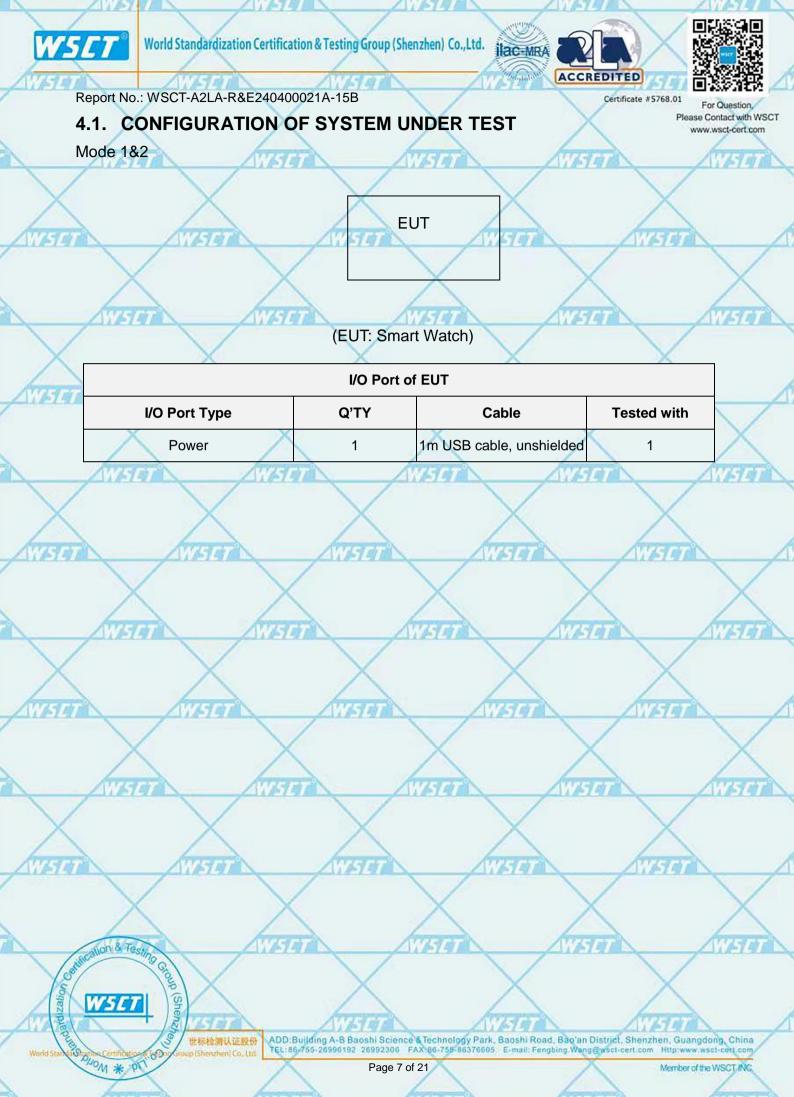
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4. TEST METHODOLOGY

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.

/	Pretest Mode	Descrip	otion	
	Mode 1	Blueto	Z 1 10 1 10 1	WISET
	Model 2	Idle		
\mathbf{X}	X	X	X	$\overline{\mathbf{X}}$
AWSET	WEIT	WEIT	WISET	ATT A
/	X	XX	X	X
		IST AVER	NIE A	WEIT
X	X	X	X	X
WEITT	NUSTRA .	THE	THE A	HER A
	- ALESA			
	X	X X	X	X
	TA A	मन रामन	WISTA	(THE
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		VSIGT AVISION	WISET	WSET
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	Δ		Δ \downarrow	Δ
WISET	WSLT	AWSET	WISET N	75107
	\checkmark	\vee \vee	\sim	\sim
$\langle /$	$\langle \rangle$	$\land \land$	\wedge	
scation & 7	restino	VISET	WISET	AVISET
Seren	Gree		\sim	\checkmark
in W756	7	\wedge	\wedge	\land
AV BA				75107
World Star 19 Days Comment	世际检测认证股份 tion (Congistion (Shenzhen) Co. Ltd	ADD:Building A-B Baoshi Science & Technology P TEL:86/755-26996192 26992308 FAX:86-755-86376	ark, Baoshi Road, Bao'an District, Shen 3605 E-mail: Fengbing Wang@wsct-cert.co	
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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 accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

14	ltem	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	1	1		/		/

Note: (1) T

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- (1) The support equipment was authorized by Declaration of Confirmation.
 (2) For detachable type I/O cable should be specified the length in cm in ^CLength₁
 - column.

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5. MEASUREMENT INSTRUMENTS

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	ET
Test software		EZ-EMC	CON-03A		×	
ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
LISN 1154	AFJ AFJ	567 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	1
System Controller	WCT7	SC100 7	A - /	11/05/2023	11/04/2024	iET
Bi-log Antenna	Chase	CBL6111C	2576	11/05/2023	11/04/2024	
Spectrum analyzer	R&S	FSU26	200409	11/05/2023	11/04/2024	
Horn Antenna	SCHWARZBECK	9120D	1141	11/05/2023	11/04/2024	
Bi-log Antenna	SCHWAREBECK	VULB9163	9163/340	11/05/2023	11/04/2024	1
Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2023	11/04/2024	X
9*6*6 Anechoic	ATT T	AVEST	\sim	11/05/2023	11/04/2024	14
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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 32. 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

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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	
7	Y	Conducted Emission Test	±3.2dB	
	2	RF power, conducted	±0.16dB	X
	3	Spurious emissions, conducted	±0.21dB	115
/	4	All emissions, radiated(<1GHz)	±4.7dB	
	5	All emissions, radiated(>1GHz)	±4.7dB	
7	6	Temperature VISCO	±0.5°C/5/7	
	7 🗙	Humidity	±2.0%	X

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7. EMC EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

		The self and self			ALL AND ANY ANY
FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard
	Quasi-peak	Average	Quasi-peak	Average	Stanuaru
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

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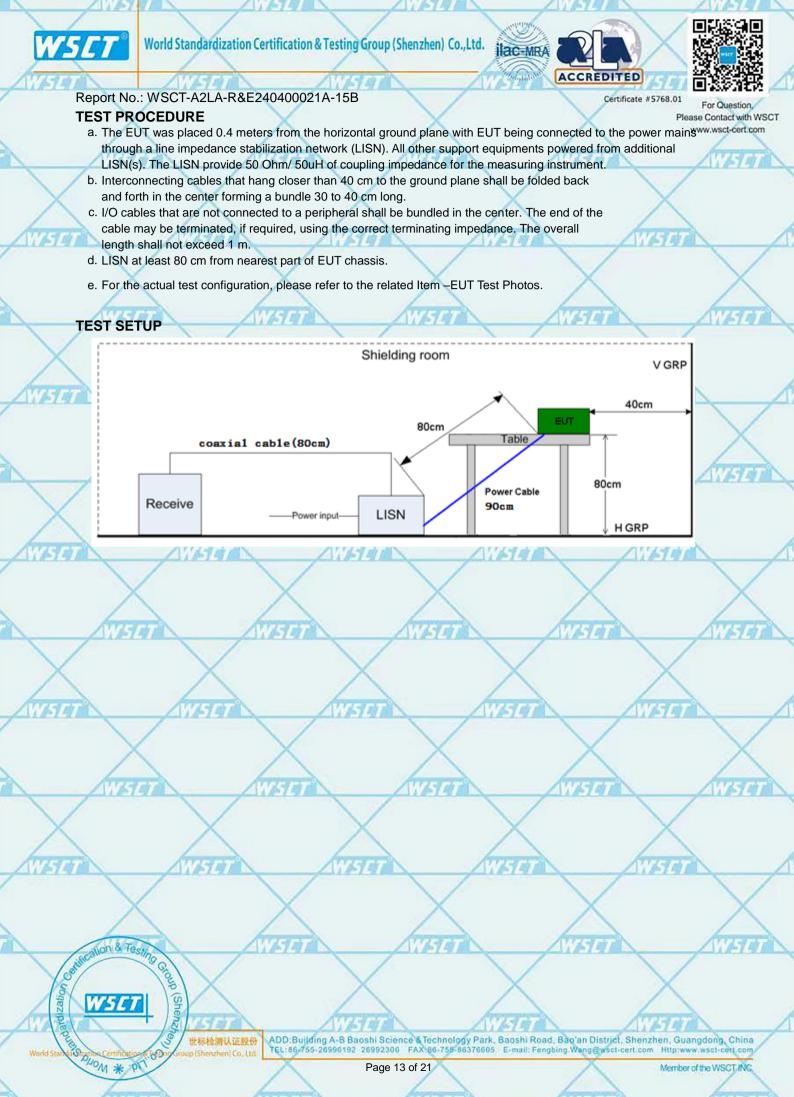
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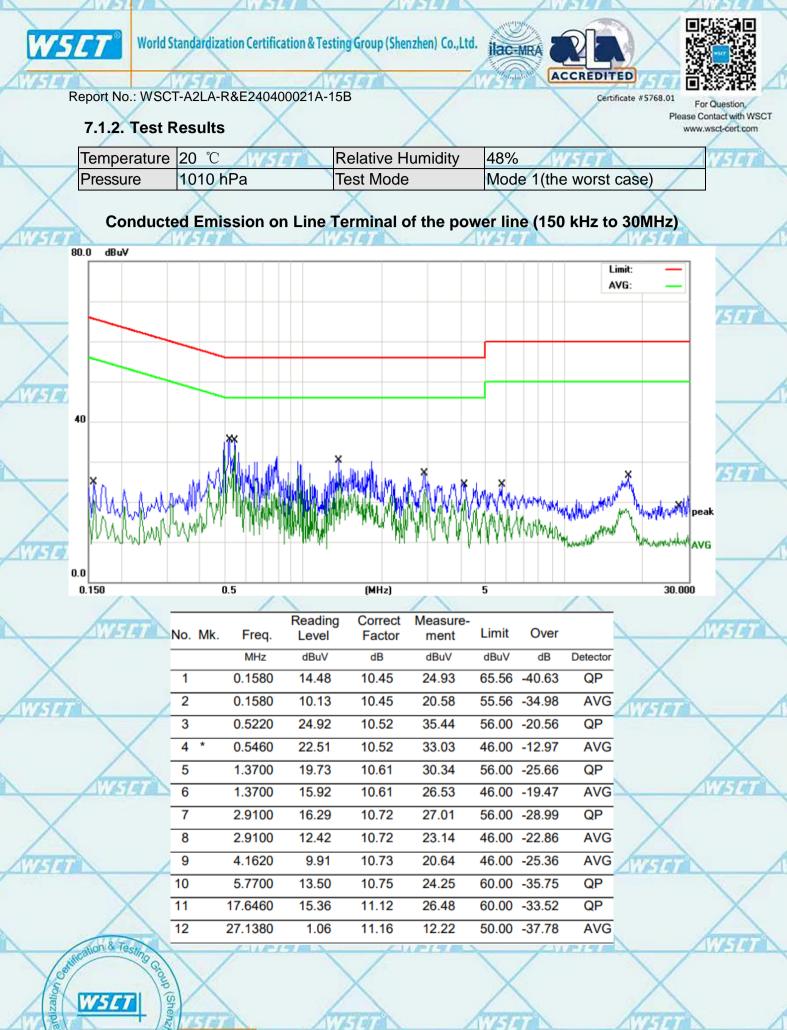
- (1) The tighter limit applies at the band edges.
 - (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following	table is the	sotting of	the receiver
The following		s setting of	Inc receiver

Receiver Parameters	Setting	
Attenuation	10 dB	
Start Frequency	0.15 MHz	_
Stop Frequency	30 MHz	1
IF Bandwidth	9 kHz	1
		/



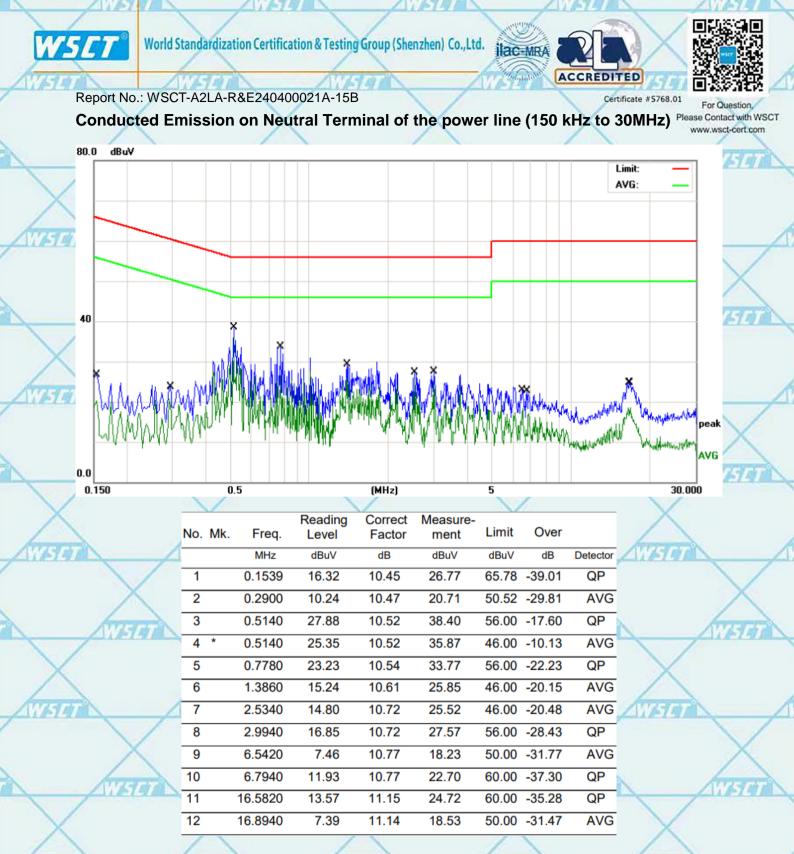




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Note1:

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Freq. = Emission frequency in MHz

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

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

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

Limit ($dB\mu V$) = Limit stated in standard Margin (dB) = Measurement ($dB\mu V$) – Limits ($dB\mu V$)

Q.P. =Quasi-Peak AVG =average

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7.2. RADIATED EMISSION MEASUREMENT

7.2.1. 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 X
Above 960	500	3
A PART OF THE PART	ATT TAK	Contraction of the local division of the loc

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

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

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(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

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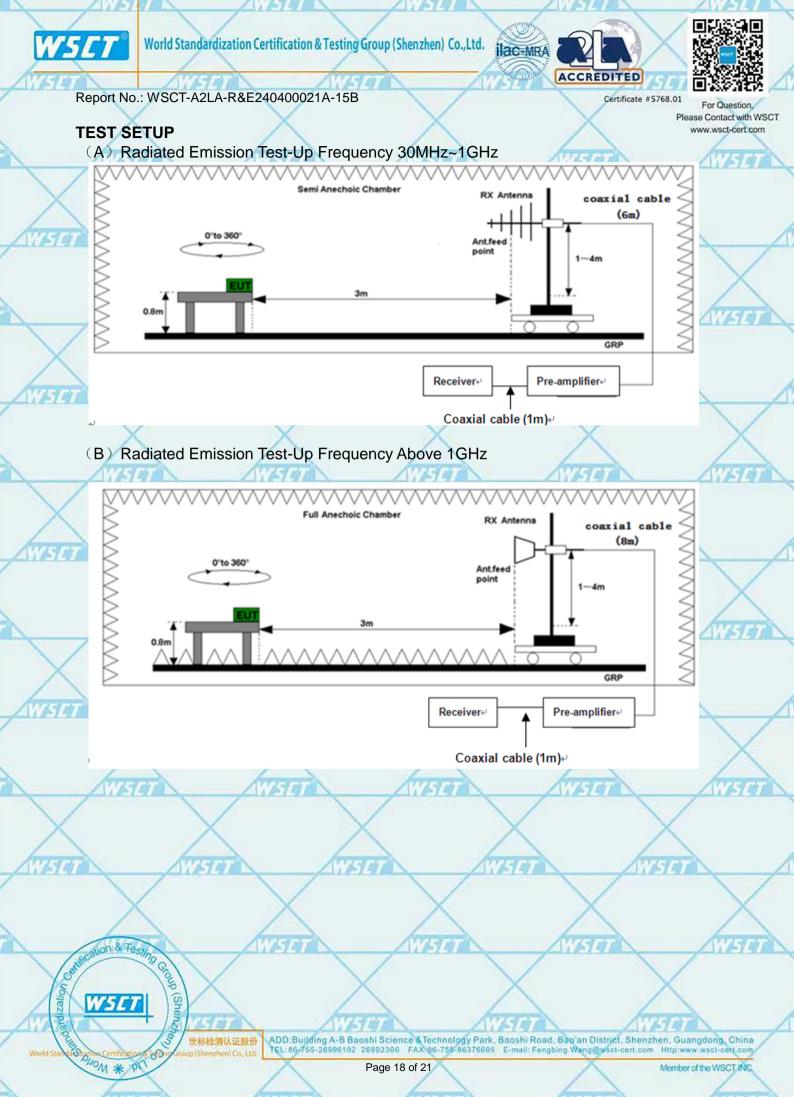
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- a. The measuring distance of at 3 m shall be used for measurements at frequency up to 1GHz. For www.wsct-cert.com frequencies above 1GHz, any suitable measuring distance may be used.
- b. The EUT was placed on the top of a rotating table 0.8 meters 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.

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Freq. = Emission frequency in MHz Reading level $(dB\mu V)$ = Receiver reading Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor. Measurement $(dB\mu V)$ = Reading level $(dB\mu V)$ + Corr. Factor (dB)Limit $(dB\mu V)$ = Limit stated in standard Margin (dB) = Measurement $(dB\mu V)$ – Limits $(dB\mu V)$

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TEST RESULTS

Above 1GHz(1~26GHz) :(Mode 1-worst case)

							· · · · · · · · · · · · · · · · · · ·		
	Freq.	Ant.	Emis	sion	Limit 🔨		Over(dB)		
	(MHz)	Pol.	Level(dBuV)		3m(dBuV/m)		N	(TITELA)	
1	$\langle \rangle$	H/V	PK	AV	PK	AV	PK	AV	
l	1625.54	V	59.66	40.56	74	54	-14.34	-13.44	\sim
	2106.18	V	59.61	40.53	74	54	-14.39	-13.47	\wedge
	1623.66	Н	59.54	39.48	74	54	-14.46	-14.52 💋	
	2364.17	H	58.40	39.40	74	54	-15.60	-14.60	150

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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.

*****END OF REPORT*****



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