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TEST REPORT

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FCC ID: 2AXYP-OSW-832N Product: Smart Watch WSCT Model No.: OSW-832N Trade Mark: oraimo Report No.: WSCT-ANAB-R&E241100064A-15B Issued Date: 28 November 2024.7

Issued for: []

ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI W577 STREET FOTAN NT HONGKONG W57

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 City, Guangdong Province, China.5 CT

Issued By:

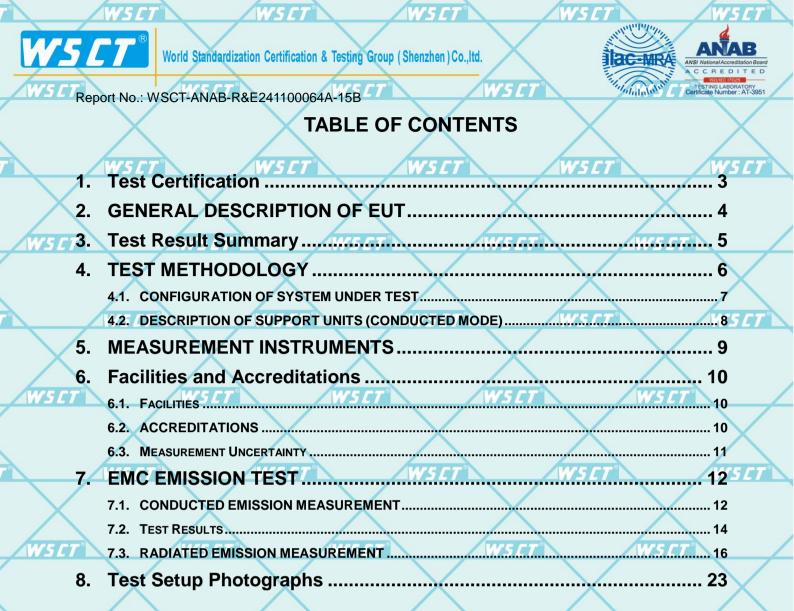
TEL: +86-755-26996192 FAX: +86-755-86376605

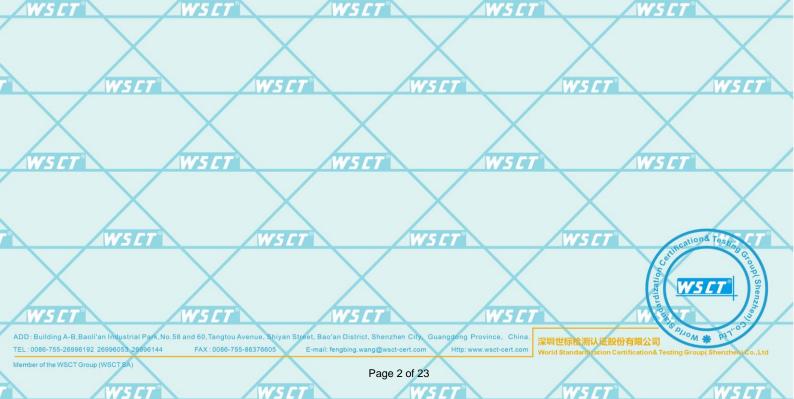
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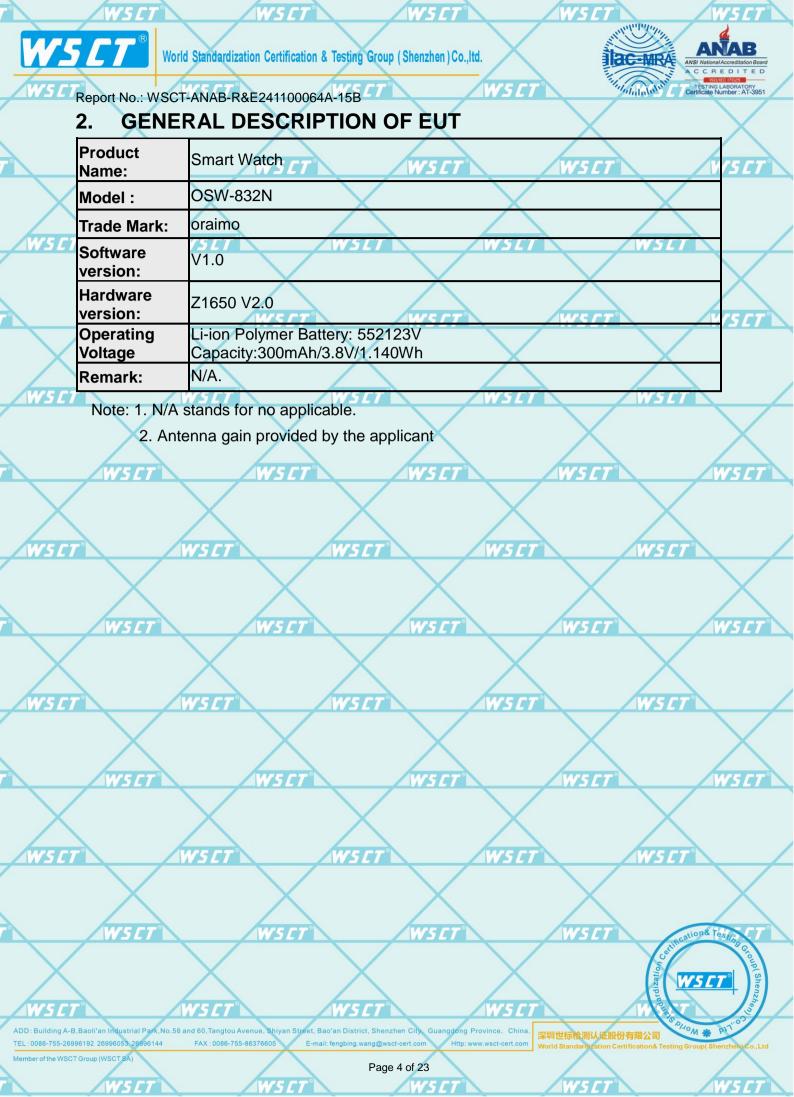
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3. Test Result Summary

	Anne Anne			
\checkmark	Requirement	CFR 47 Section	Result	WSLI
\times	CONDUCTED EMISSION	§15.107	PASS	
75 [7	RADIATED EMISSION	W5CT §15.109 W5CT	PASS'5CT	

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Note:

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1. PASS: Test item meets the requirement.

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- 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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To investigate the maximum EMI emission characteristics generates from EUT, the test 5 CT 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.

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TESTING LABORATORY Certificate Number : AT-3951

1	Pretest Mode	Description	
vs	Mode 1	Charging word	WSET
	Mode 2	Bluetooth	/
	Mode 3	Bluetooth + charging	$\langle \rangle$
	Note: Bluetooth earpho	ones cannot be turned on while charging in the charging compar	tment.

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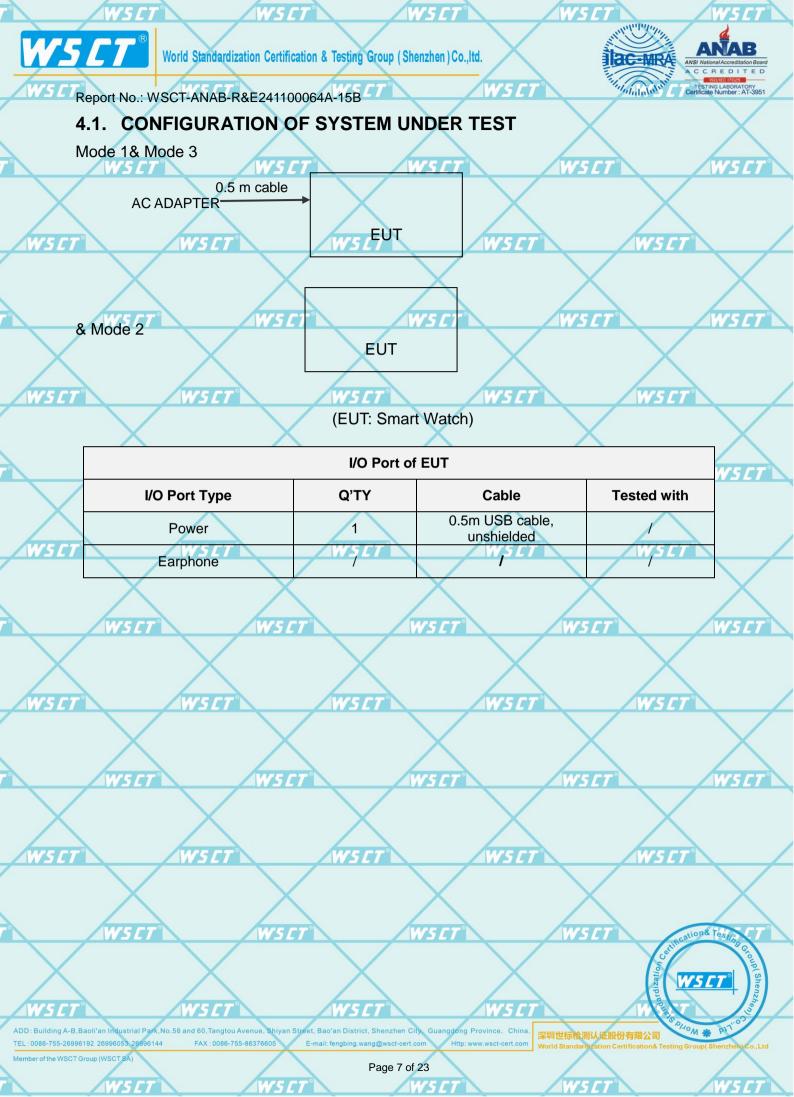
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4.2. DESCRIPTION OF SUPPORT UNITS (CONDUCTED MODE)

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

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							_
W5 C1	ltem	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note	
	1	Adapter	/	/		/	$\mathbf{\lambda}$
	2	Keyboard				/	
	3	V5C7Mouse	WSLT	WSET	WS LT		W5 [

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

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Report No.: WSCT-ANAB-R&E241100064A-15B

5. MEASUREMENT INSTRUMENTS

						/	
	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	ET
	Test software	-	EZ-EMC	CON-03A	-	<u> </u>	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
W51	T LISN W50	7 AFJ W	5 [7 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	
	System Controller	WCT7	SC100 <i>5 [[</i> 7	- /	11/05/2023	11/04/2024	ET
	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2023	11/04/2024	
	Spectrum analyzer	R&S	FSU26	200409	11/05/2023	11/04/2024	
ws.	Horn Antenna	SCHWARZBECK	5 CT 9120D	w1141-7	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	WSET	WSET	~ /	11/05/2023	11/04/2024	5 CT°

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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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District, Shenzhen City, Guangdong Province, 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.

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ANAB - Certificate Number: AT-3951

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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 wsc confidence of approximately 95 %.

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confidence of approximately 95 %.					
	No.	Item		MU	
W5CT°	1	Conducted Emission Test W5C7	NS ET	±3.2dB/5C7	
	2	RF power, conducted		±0.16dB	\times
	3	Spurious emissions, conducted		±0.21dB	WSET
	4	All emissions, radiated(<1GHz)		±4.7dB	
	5	All emissions, radiated(>1GHz)	\wedge	±4.7dB	
W5CT°	6	Temperature W5C7	NSET	±0.5°CV5C7°	$\leftarrow \neq$
	7	Humidity		±2.0%	\mathbf{X}
	wsc	T WSET WSET	ws	CT°	WSET
$\overline{}$			$\overline{\nabla}$		
WSET	$\overline{}$	WSCT WSCT	WS CT°	WSET	$\leftarrow \neq$
				$\langle \rangle$	X
	ws c	T WSET WSET	ws	СТ	WSET
			\mathbf{X}		
WSET		WSET WSET	WSET	WSET	/
	$\overline{}$				\bigtriangledown
	wst	T WSET WSET		CT [°]	WSET
WSET [®]	$\overline{}$	WSET WSET	WSET	WSET	\checkmark
	X			$\langle \rangle$	$\boldsymbol{\wedge}$
	<u>/wsc</u>	T WSCT WSCT	WS	CT°	Testing CT
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EMC EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

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7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

-		Al your person of the second se				All the second s
[7	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
	W 5 0.50 -5.0	73.00	60.00	£7 56.00	46.00	FCC
/	5.0 -30.0	73.00	60.00	60.00	50.00	FCC

Note:

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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.

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The following table is the setting of the receiver

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\wedge	Receiver Parameters	Setting	
	Attenuation	10 dB	
VJLI	Start Frequency	0.15 MHz	
	Stop Frequency	30 MHz	\sim
	IF Bandwidth	9 kHz	$ \land $
	WEFT	WELT WELT	WEFT

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	X
/	WSFT

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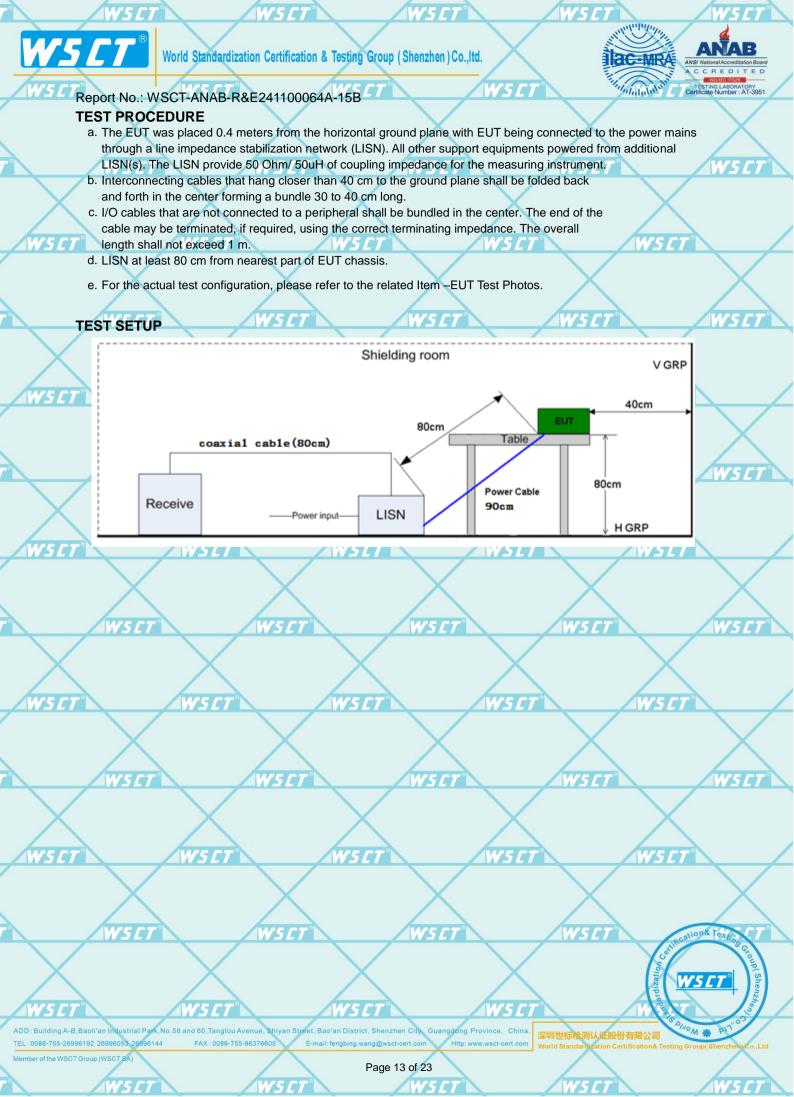
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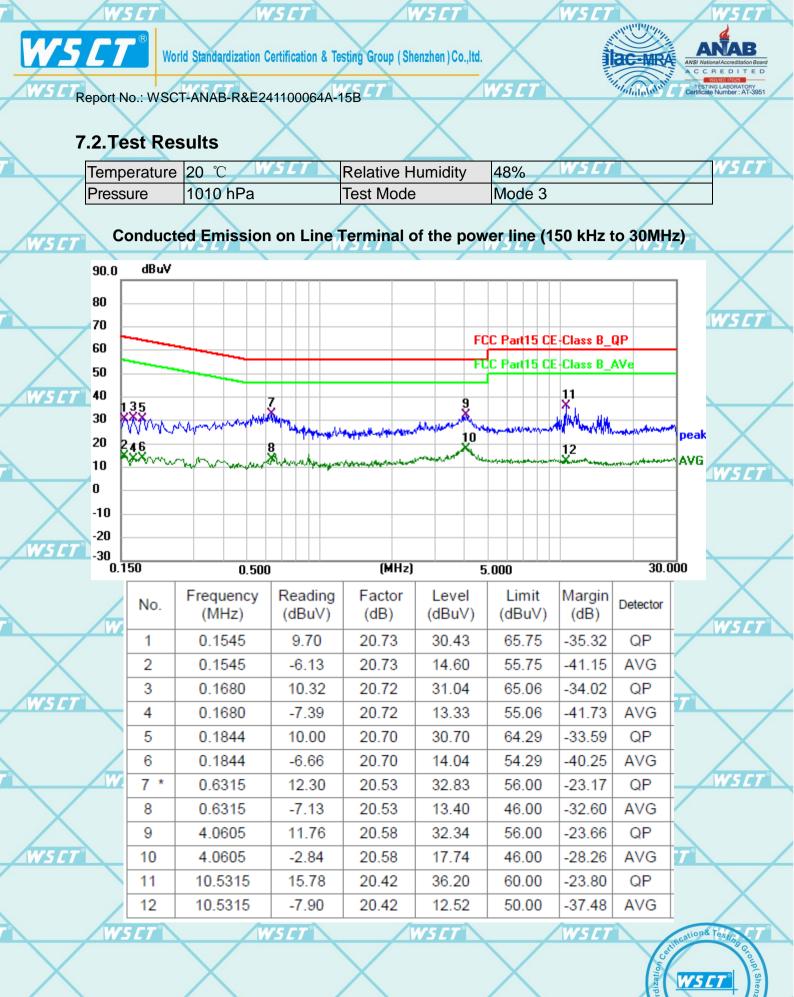
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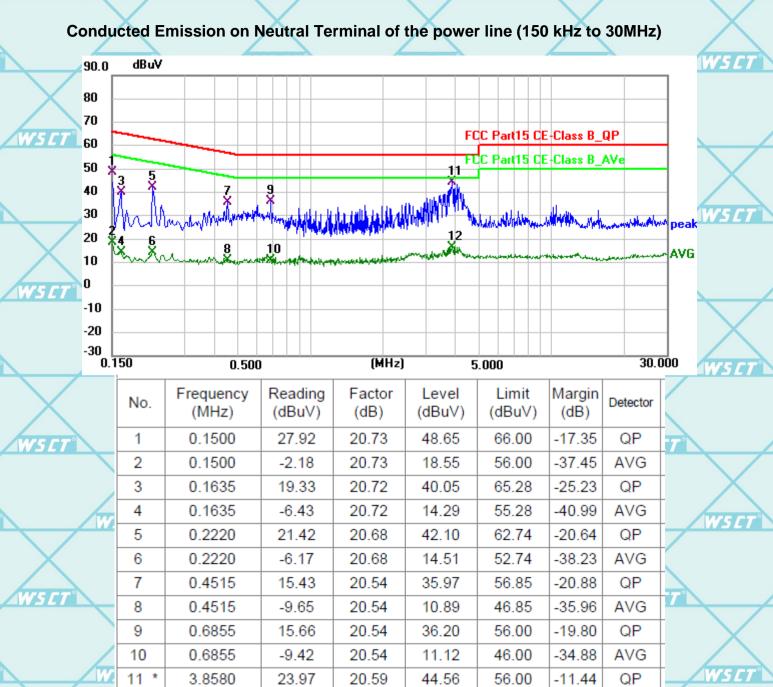
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Note1:

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- Freq. = Emission frequency in MHz M51Reading level (dB μ V) = Receiver reading
 - Corr. Factor (dB) = LISN Factor + Cable loss
 - Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

-4.29

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

3.8580

- Margin (dB) = Measurement (dBµV) Limits (dBµV)
- 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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16.30

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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:

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ſ	Frequencies	Field Strength	Measurement Distance
	(MHz)	(micorvolts/meter)	(meters)
	0.009~0.490	2400/F(KHz)	300
	<i>SCT</i> 0.490~1.705 <i>WSL</i>	24000/F(KHz)	//30_7
	1.705~30.0	30	30
	30~88	× 100	Х 3 Х
Γ	88~216	150	3
	216~960	ws - 200	NSCT 3 W5
	Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

1	VSFT° WSF	-T°\/W5/T°\	WSCT [®]
	FREQUENCY (MHz)	Limit (dBu∖	//m) (at 3M)
		PEAK	AVERAGE
	Above 1000	74	54
	Notoo		

Notes:

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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.

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(3) Emission level (dBuV/m)=20log Emission level (uV/m).

\sim	Spectrum Parameter	Setting	
\wedge	Attenuation	Auto	
	Start Frequency	1000 MHz	
NSCT®	Stop Frequency	10th carrier harmonic	_
	RB / VB (emission in restricted	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average	
	band) 📈	T MITZ / T MITZ TOT FEAK, T MITZ / THZ TOT AVERAGE	X

Receiver Parameter	Setting	15 E T °
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 QPc rr	
	Attenuation Start ~ Stop Frequency Start ~ Stop Frequency	AttenuationAutoStart ~ Stop Frequency9kHz~150kHz / RB 200Hz for QPStart ~ Stop Frequency150kHz~30MHz / RB 9kHz for QP

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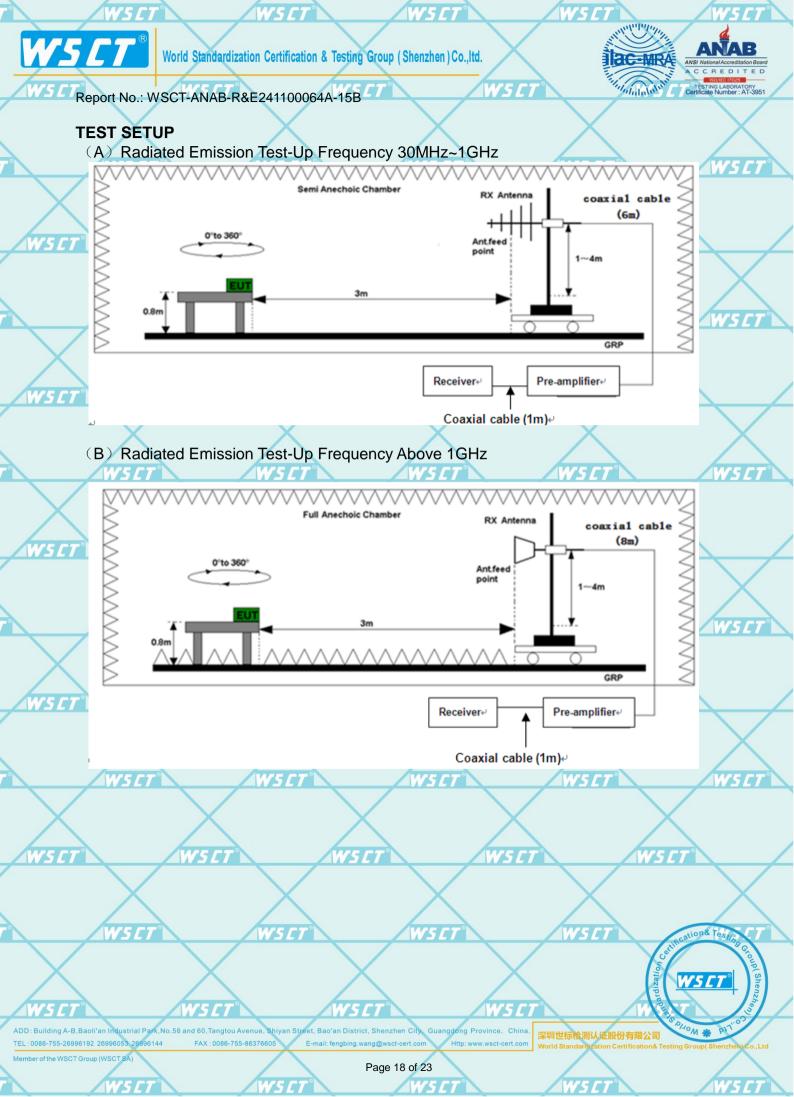
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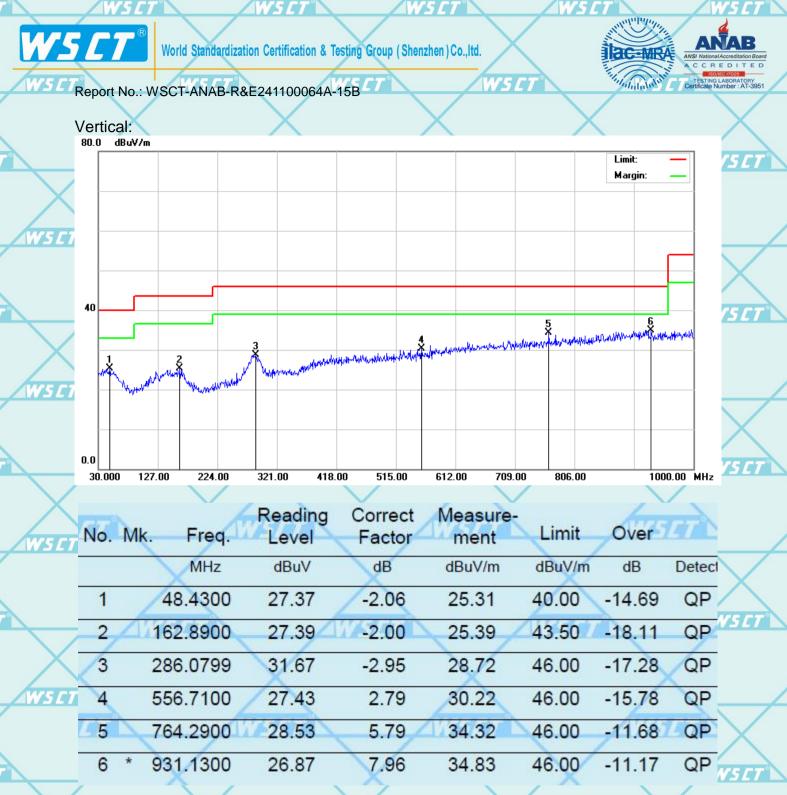
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Note1:

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

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

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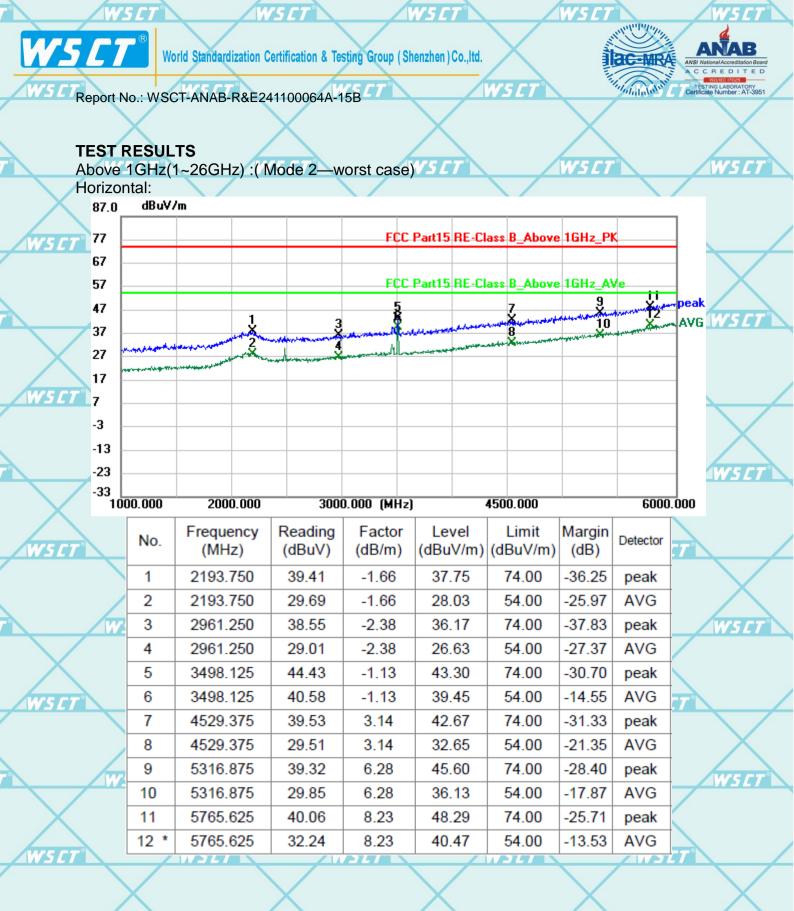
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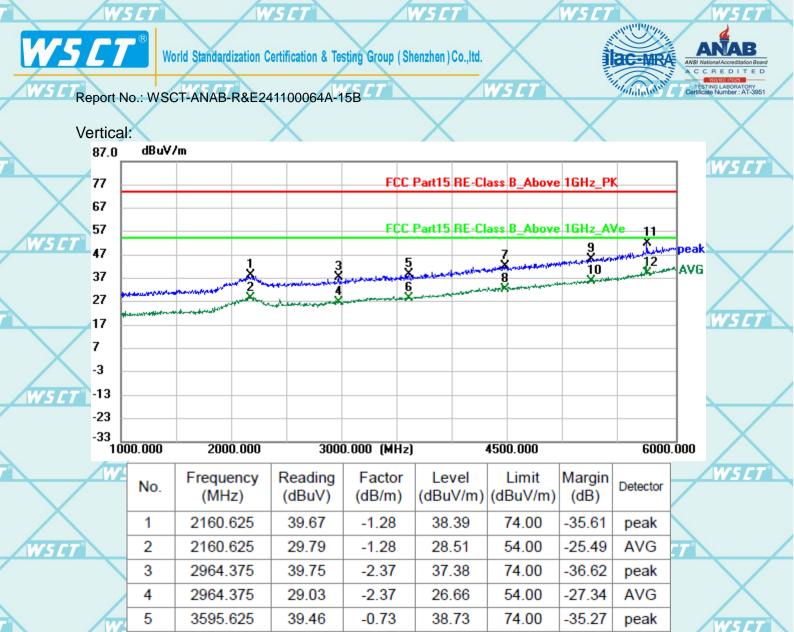
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All emissions not reported were more than 20dB below the specified limit or in the noise floor.

-0.73

2.87

2.87

6.01

6.01

8.06

8.06

28.44

42.10

32.56

45.24

35.64

51.86

39.15

-25.56

-31.90

-21.44

-28.76

-18.36

-22.14

-14.85

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Freq. = Emission frequency in MHz Freq. = Emission frequency in MHz Factor = Antenna Factor + Cable Loss – Pre-amplifier.

3595.625

4464.375

4464.375

5232.500

5232.500

5740.625

5740.625

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29.17

39.23

29.69

39.23

29.63

43.80

31.09

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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