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TEST REPORT

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FCC ID: 2AXYP-OTW-630-R Product: True Wireless Earbuds W5C7 Model No.: OTW-630 Trade Mark: oraimo Report No.: WSCT-ANAB-R&E241200080A-15B Issued Date: 13 January 2025 C7

Issued for: _7

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

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 City, Guangdong Province, China

TEL: +86-755-26996192

FAX: +86-755-86376605

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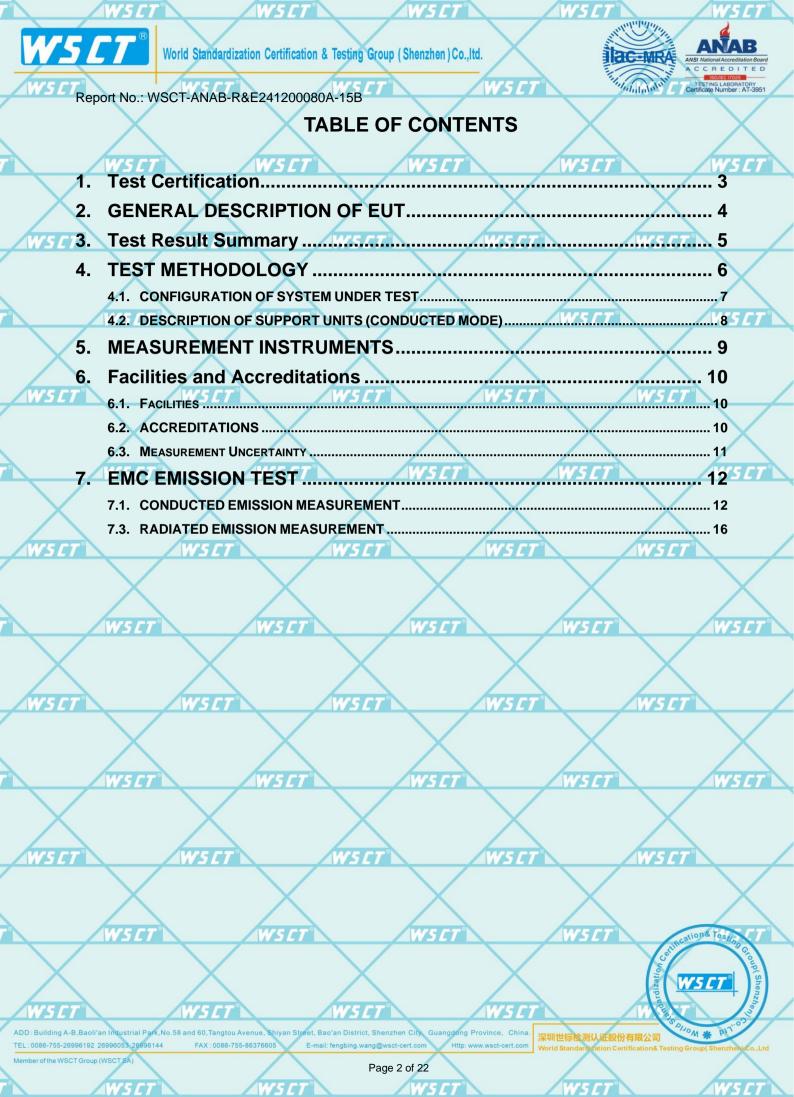
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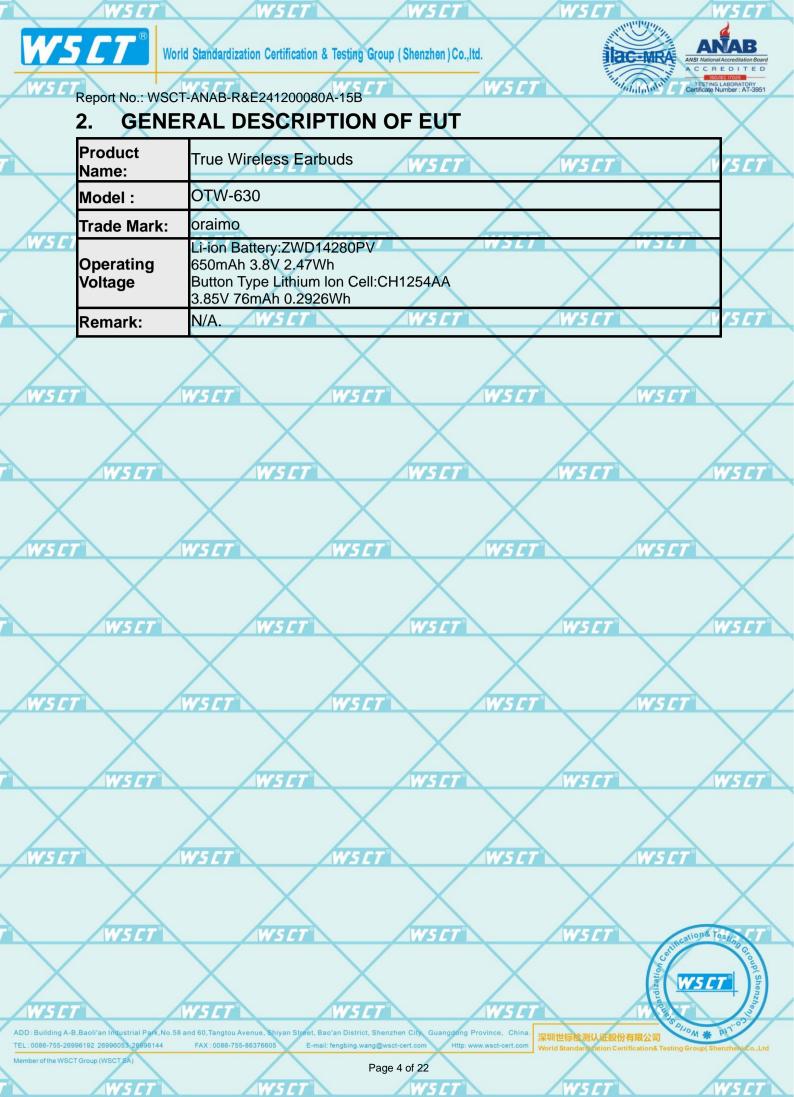
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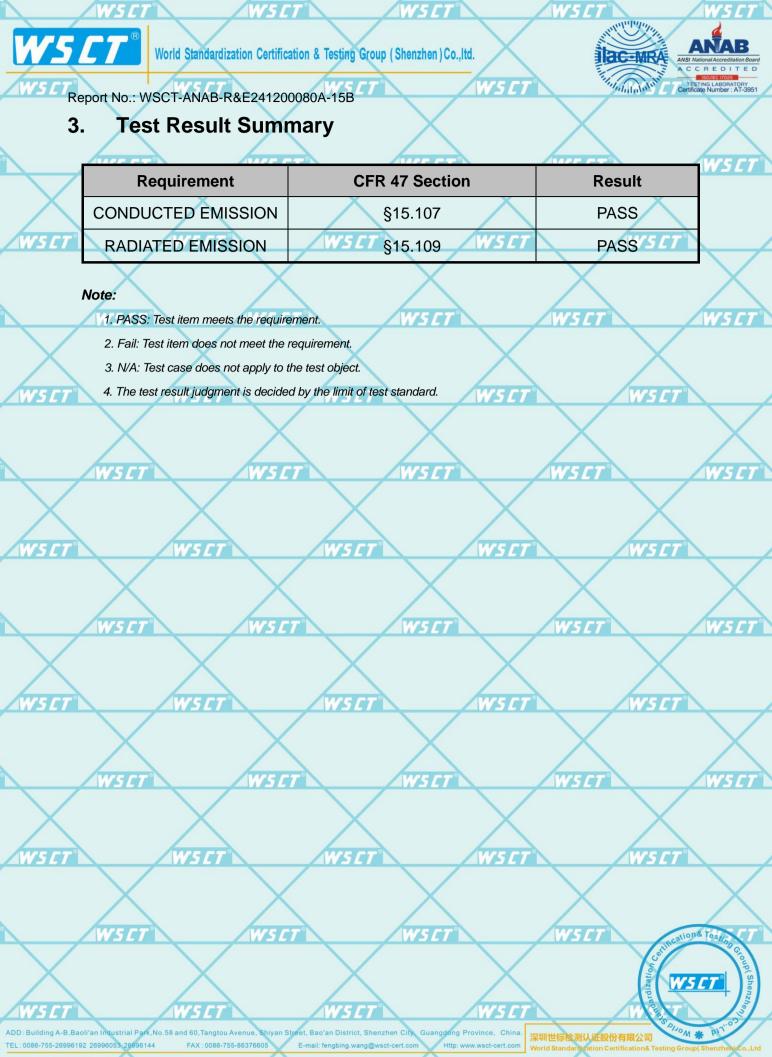


	WSET	WSET WSET WSET WSET
WSCT.	6	orld Standardization Certification & Testing Group (Shenzhen)Co.,Itd.
		CT-ANAB-R&E241200080A-15B
	Product:	True Wireless Earbuds
	Model No.:	OTW-630
WSET	Additional Model:	oraimo W 5 CT W 5 CT W 5 CT
	Applicant:	ORAIMO TECHNOLOGY LIMITED FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
$\mathbf{\mathbf{x}}$	Manufactu	ORAIMO TECHNOLOGY LIMITED W5C7 W5C7 FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG VIIII CONTRACT
WSET	Date of Tes	t: 15 December 2024 to 13 January 2025
	Applicable Standards:	
2	The above e	quipment 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:	Jiang Guantiang	Checked By:	Chen du	aion & Testing
X	(Jiang Guanliang)	X	(Chen Xu)	
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Approved By:	Li Hueribi	WSET Date:	January 202	ALLON * P
WSET	(Li Huaibi) WSCT WSCT	W5 E	T W	SET
WSET	WSET	WSET	WSET	WSET
WSET	WSET WSET	W5E	7	WSCT Drug Country
TEL:0086-755-26996192 26996053 26996144	and 60, Tangtou Avenue, Shiyan Street, Bao'an District, Sher FAX : 0086-755-86376605 E-mail: fengbing.wang@w			
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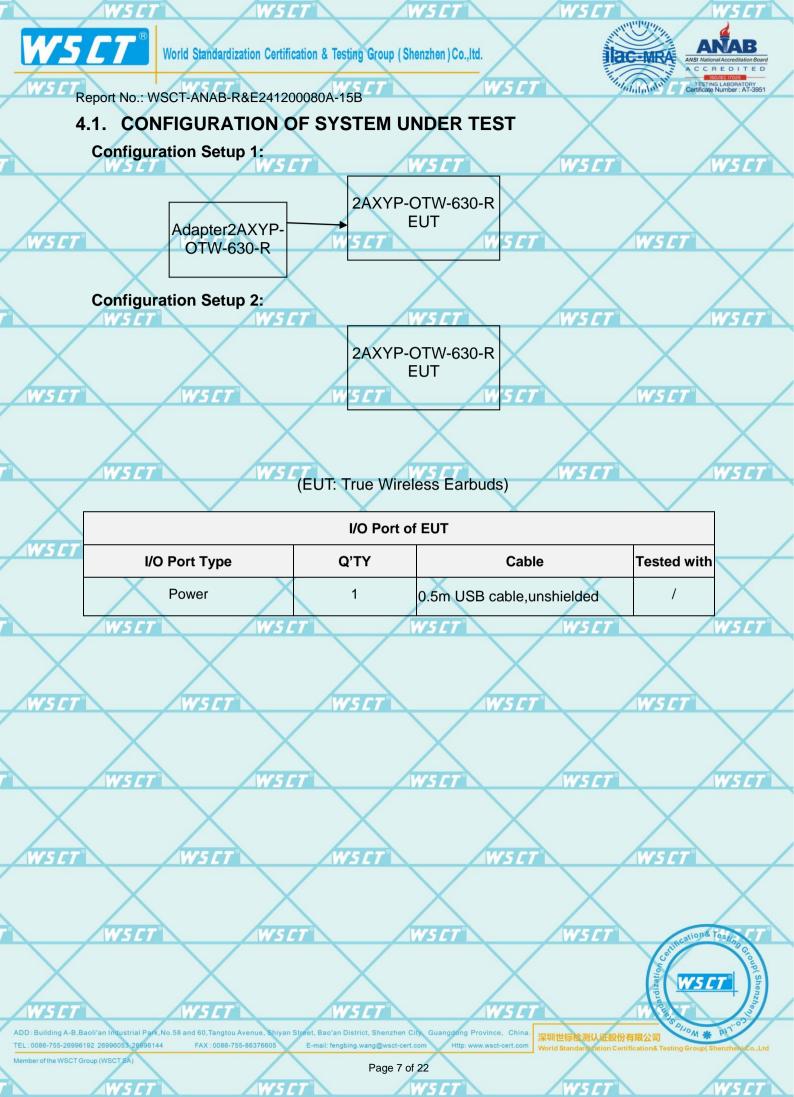
4. TEST METHODOLOGY

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.

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. /	Pretest Mode		Description		
ws		SET W		V5/7°	WSET
	Mode 2		Bluetooth		/
				X	
WSET	WSET	WS ET	WSET	ws	
	X	\land /	\mathbf{X}	$\overline{\mathbf{X}}$	
T WS	ET W	SCT W	SCT W	IS CT	WSCT
				X	
WSET	WSET	WSET	WSET	ws	7
/	\mathbf{X}	\land /		\mathbf{X}	
	TT W	SCT W	5.57	VS ET	WSET
				X	
WSET	WSET	WSET	WSET	ws	77
. /	\mathbf{X}	\land /	X		
T WS	TT W	SCT W	567	VS CT	WSCT
\mathbf{X}	X	X	X	/	
WSET	WSET	WSET	WSET	ws	7
		\times	X	X	
The second secon	TT W	SCT W	SCT	VSET	cation& Testing CT
				Cent	Incational Testing Group (Shenza
	X	X	X	lizatio	WSCT She
WSET	WSLT	WSET	WSET	The second	
	trial Park,No.58 and 60,Tangtou Avenue, S	hiyan Street, Bao'an District, Shenzhen City, O	Guangdong Province, China. 深圳世校	减测认证股份有限公司	S PHOM # PIT
TEL: 0086-755-26996192 26996053 Member of the WSCT Group (WSCT 87	X	E-mail: fengbing.wang@wsct-cert.com Page 6 of 22	Http: www.wsct-cert.com World Sta	ndardization Certification& Tes	ting Group(Shenzhen) Co.,Ltd
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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 WSCI 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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WS C	ltem	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	1	Adapter	/	XCU32		/

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Note: 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 ^rLength₁ 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		V	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2024	11/04/2025	
W51	T LISN W50	7 AFJ W	5 <i>CT</i> LS16	16010222119	11/05/2024	11/04/2025	/
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2024	11/04/2025	
	pre-amplifier	CDSI	PAP-1G18-38		11/05/2024	11/04/2025	
	System Controller	WCTT	SC1005 [7	<u> </u>	11/05/2024	11/04/2025	SET°
	Bi-log Antenna	Chase	CBL6111C	2576	11/05/2024	11/04/2025	
	Spectrum analyzer	R&S	FSU26	200409	11/05/2024	11/04/2025	
ws.	Horn Antenna W50	SCHWARZBECK	5 <i>CT</i> 9120D	w1141 7	11/05/2024	11/04/2025	
	Bi-log Antenna	SCHWARZBECK	VULB9168	01488	11/05/2024	11/04/2025	
	Pre Amplifier	H.P.	HP8447E	2945A02715	11/05/2024	11/04/2025	
	9*6*6 Anechoic	WSET	WSET	<u> </u>	11/05/2024	11/04/2025	5 <i>CT</i> °

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Facilities and Accreditations

6.1.Facilities

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

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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

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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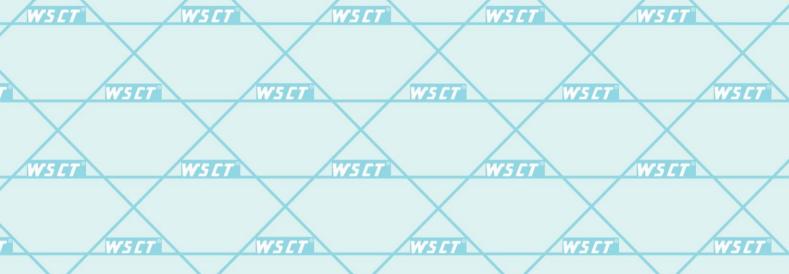
6.3. Measurement Uncertainty

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based V5 C i on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %.

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WSET	No.	Item	MU	
	1	Conducted Emission Test	±3.2dB	\bigtriangledown
	2	RF power, conducted	±0.16dB	\square
	3	Spurious emissions, conducted	±0.21dB	<i>W5LT</i> °N
\times	4	All emissions, radiated(<1GHz)	±4.7dB	
WSET	5	All emissions, radiated(>1GHz)7 W5C7	±4.7dB/5_7	
	6	Temperature	±0.5°C	$\mathbf{\mathbf{\nabla}}$
	7	Humidity	±2.0%	WEFT





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EMC EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

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7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

LI	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	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

\wedge	Receiver Parameters	Setting	
	Attenuation	10 dB	
73L1	Start Frequency	0.15 MHz	
	Stop Frequency	30 MHz	\mathbf{N}
	IF Bandwidth	9 kHz	
	WELT	WEFT	WER

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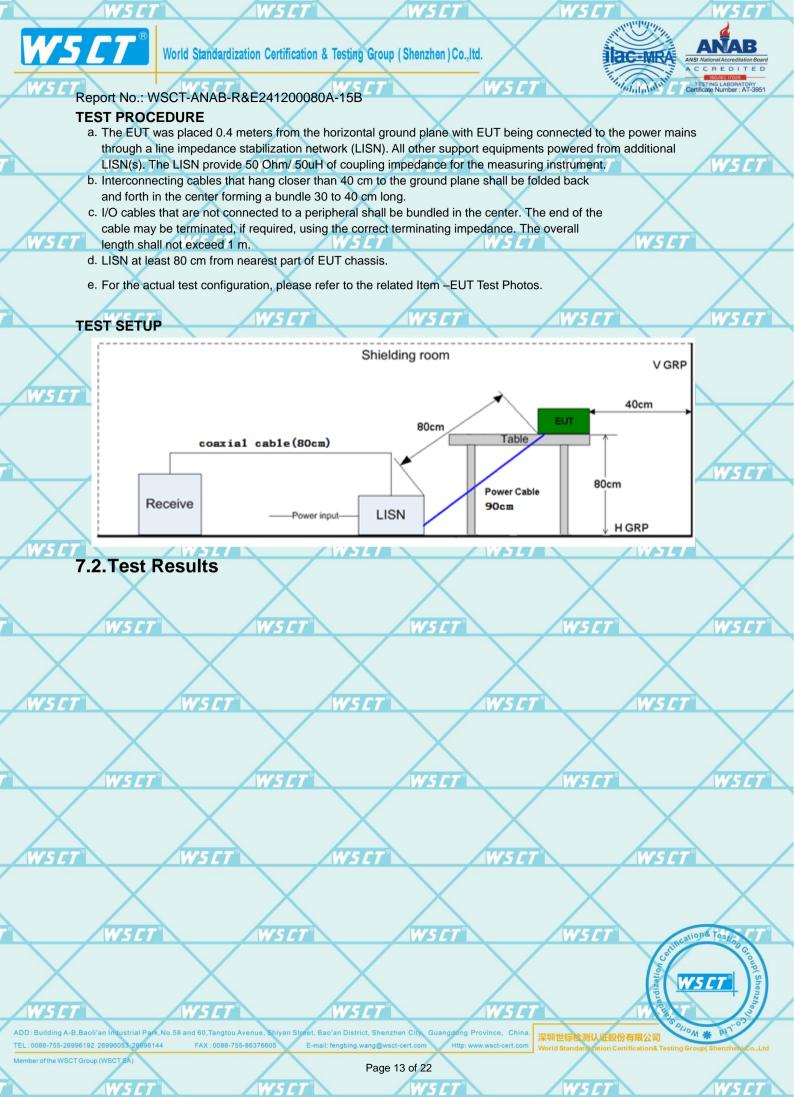
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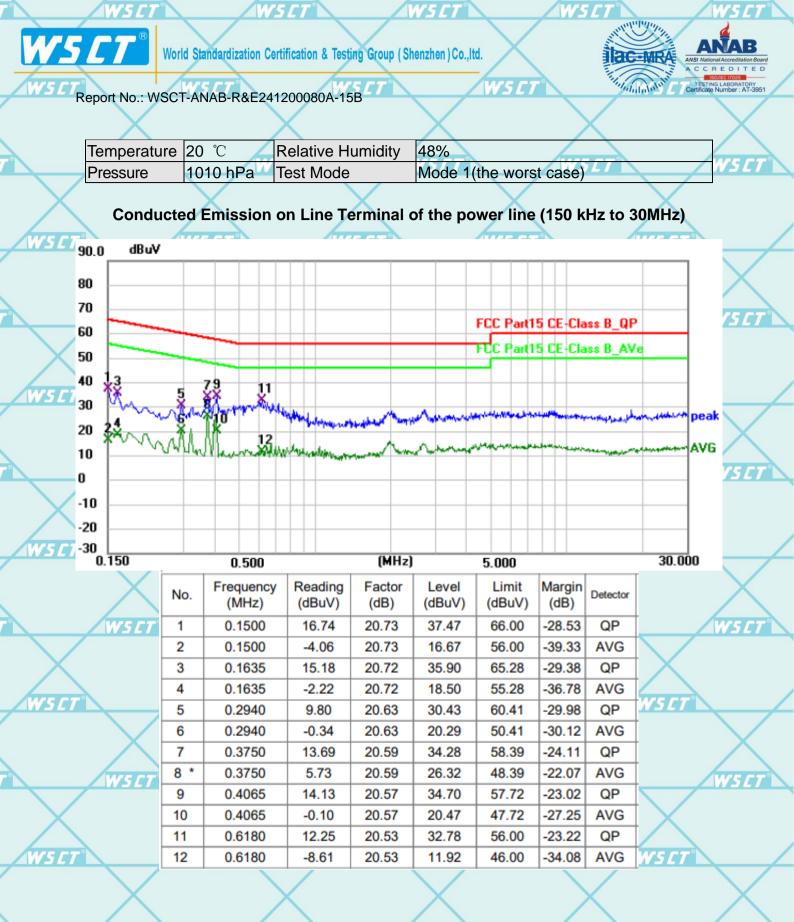
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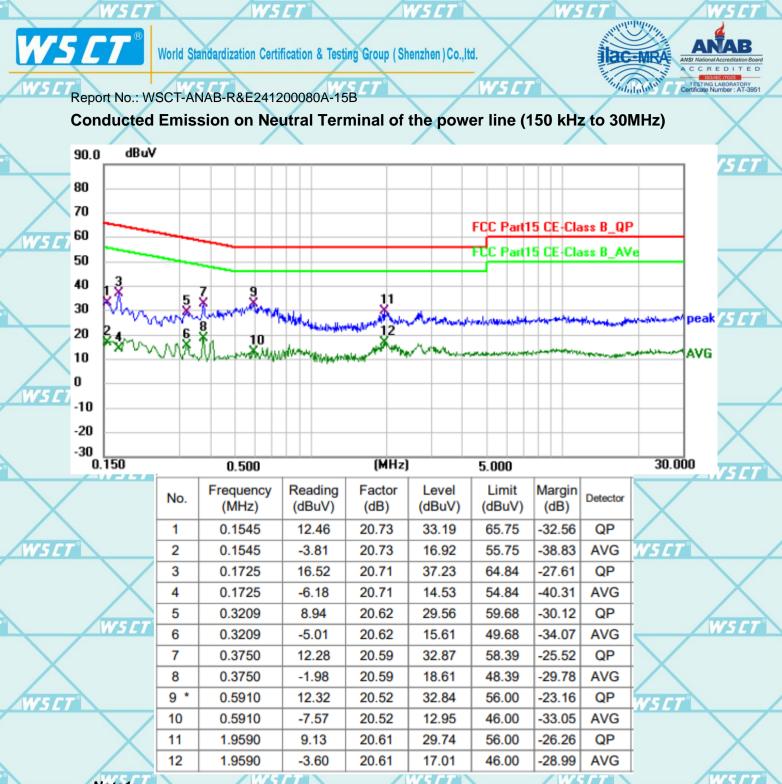
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Note1:

Freq. = Emission frequency in MHz

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

Corr. Factor (dB) = 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)	
6	0.009~0.490	2400/F(KHz)	300	
-	0.490~1.705	24000/F(KHz)	30	7
	1.705~30.0	30	30	
	30~88	100	3	
	88~216	150	3	
4	216~960	200	<u>3 W51</u>	Ľ
	Above 960	500	3	

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LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

FREQUENCY (MHz)	Limit (dBu∨	//m) (at 3M)
FREQUENCT (MINZ)	PEAK	AVERAGE
Above 1000	W5C174	WSET 54 WSE
Viotoo		

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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W5 (3) Emission level (dBuV/m)=20log Emission level (uV/m). W5 CT

X	Spectrum Parameter	Setting
$\langle \ \rangle$	Attenuation	Auto
NSET	Start Frequency	5 CT WS1000 MHz WSCT
	Stop Frequency	10th carrier harmonic
	RB / VB (emission in restricted	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average
	band)	T WINZ / T WINZ TOF PEak, T WINZ / THZ TOF Average

			CE P
$ \rightarrow $	Receiver Parameter	Setting	
$\mathbf{\nabla}$	Attenuation	Auto	
X	Start ~ Stop Frequency	9kHz~150kHz / RB 200Hz for QP	
	Start ~ Stop Frequency	150kHz~30MHz / RB 9kHz for QP	
NS CT°	Start ~ Stop Frequency	75_7 30MHz~1000MHz / RB 120kHz for QP5_7	

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TEST PROCEDURE

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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.

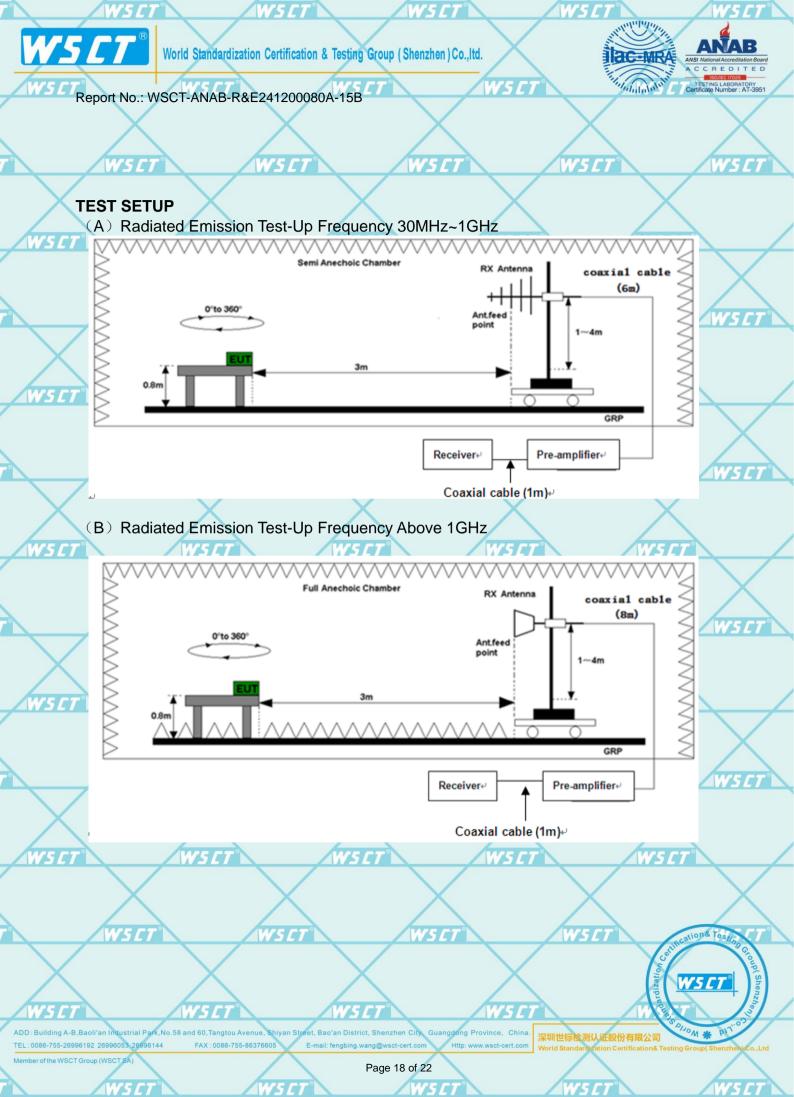
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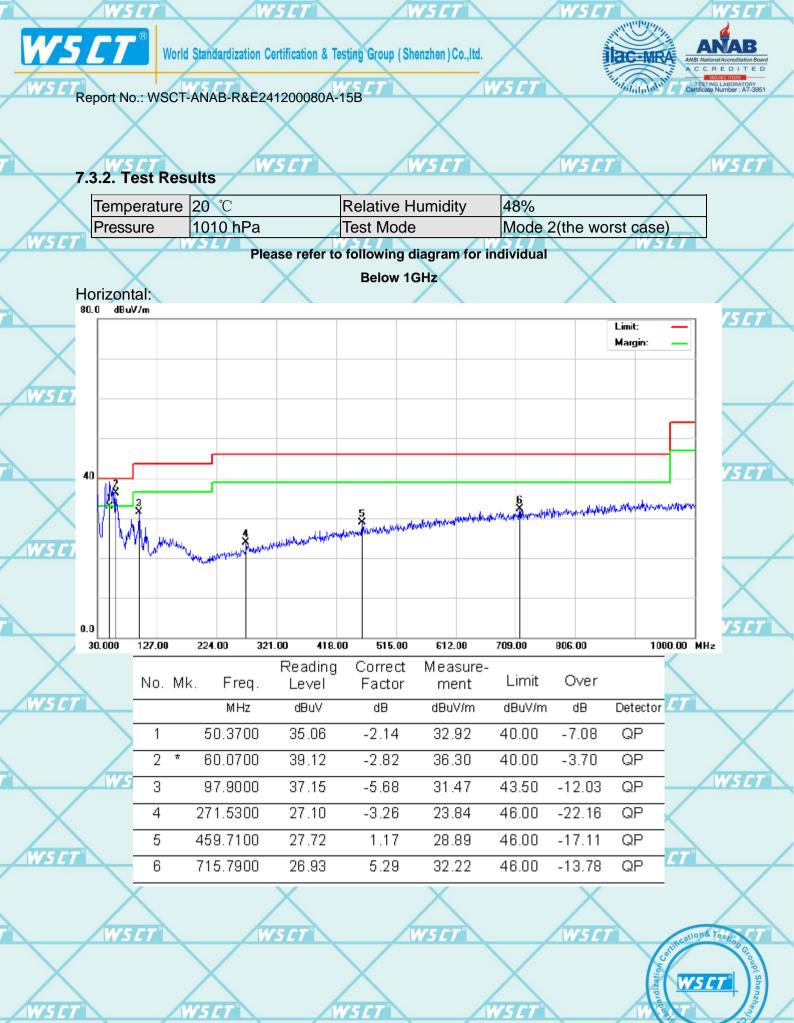
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- b. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter open area test site. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment or of the substitution 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.







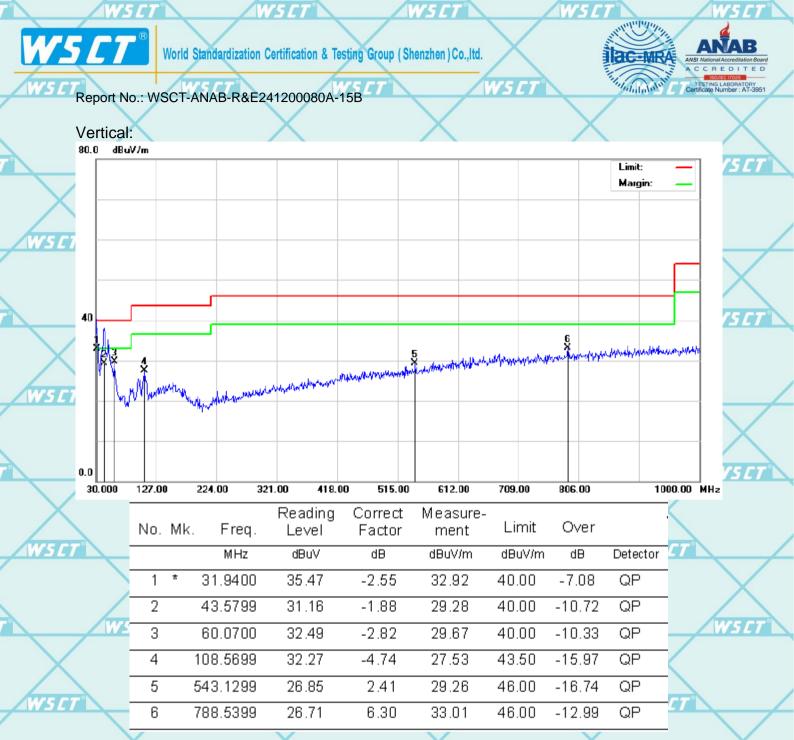
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Note1;

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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 $(dB\mu V)$ W5CT

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TEST RESULTS WSC WSE Above 1GHz(1~26GHz) :(Mode 2—worst case) Note: The spurious above 6G is noise only, do not show on the report. Horizontal: dBu¥/m 87.0 WSC 77 FCC Part15 RE-Class B Above 1GHz PK 67 FCC Part15 RE-Class B_Above 1GBz_AVe 57 U eak 47 12 3 5 AVG 37 8 6 27 15 E 17 7 -3 -13 -23 -33 1000.000 2000.000 3000.000 (MHz) 4500.000 6000.000 75 E Reading Factor Limit Margin Frequency Level Detector No. (dB) (MHz) (dBuV) (dB/m) (dBuV/m) (dBuV/m) 1 1258.750 40.74 -8.07 32.67 74.00 -41.33 peak 2 1258.750 -32.08 AVG 29.99 -8.07 21.92 54.00 WSC1 WSC 3 2153.750 -1.21 74.00 -36.05 39.16 37.95 peak 4 2153.750 28.95 -1.21 27.74 54.00 -26.26 AVG 5 2906.875 40.19 -2.5337.66 74.00 -36.34 peak 6 2906.875 -2.5354.00 -27.04 AVG 29.49 26.96 7 3961.250 39.35 0.83 74.00 -33.82 40.18 peak 8 3961.250 29.31 0.83 54.00 -23.86 AVG 30.14 5181.250 49.43 5.85 55.28 74.00 -18.72 9 peak WS C 10 5181.250 41.73 5.85 47.58 54.00 -6.42 AVG 11 5901.875 41.68 9.15 50.83 74.00 -23.17 peak 12 31.34 -13.51 AVG 5901.875 9.15 40.49 54.00

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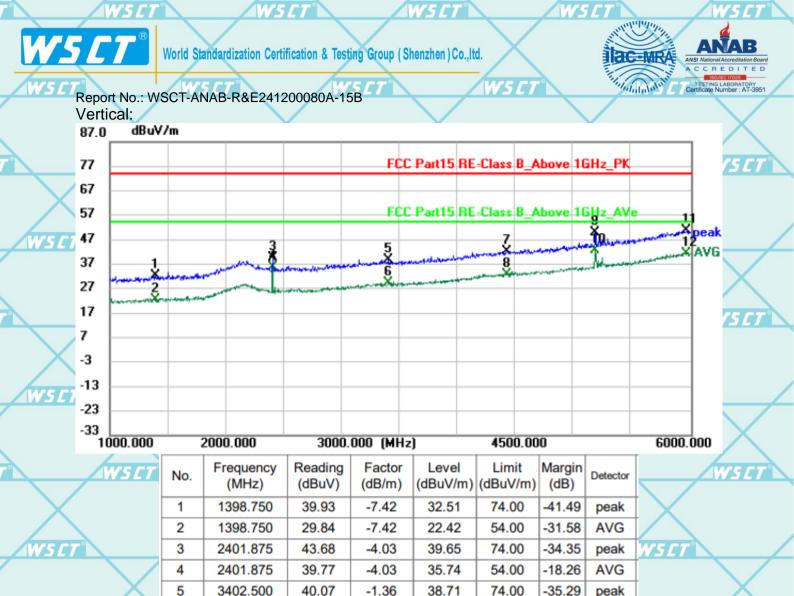
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Remark:

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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

-1.36

2.68

2.68

5.83

5.83

9.49

9.49

29.42

42.31

32.78

50.02

42.82

50.91

41.17

54.00

74.00

54.00

74.00

54.00

74.00

54.00

-24.58

-31.69

-21.22

-23.98

-11.18

-23.09

-12.83

AVG

peak

AVG

peak

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peak

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

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4420.625

4420.625

5179.375

5179.375

5951.875

5951.875

30.78

39.63

30.10

44.19

36.99

41.42

31.68

Over= Emission Level - Limit.

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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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