

WSCT

TEST REPORT

WSET

WSCT

FCC ID: 2AXYP-OTW-630-L

Product: True Wireless Earbuds

Model No.: OTW-630

WS CT

Trade Mark: oraimo

Report No.: WSCT-ANAB-R&E241200079A-15B

WSC

Issued for:

Issued Date: 13 January 2025

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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:

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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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W5 ET



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WSE

Report No.: WSCT-ANAB-R&E241200079A-15B

Test Certification

Product: True Wireless Earbuds

OTW-630

Additional

Applicant:

Model No.:

oraimo Model:

ORAIMO TECHNOLOGY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL

CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

WSCT

Manufacturer: ORAIMO TECHNOLOGY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL

CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

Date of Test: 15 December 2024 to 13 January 2025 1475 777

Applicable FCC CFR Title 47 Part 15 Subpart B Standards:

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: liang Guanliana

(Jiang Guanliang)

WSCT

Checked By:

(Chen Xu)

Approved By:

(Li Huaibi)

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WSIT





Report No.: WSCT-ANAB-R&E241200079A-15B

W5CT°

2. GENERAL DESCRIPTION OF EUT

	Product Name:	True Wireless Earbuds W5LT W5LT	(SET
<	Model :	OTW-630	
	Trade Mark:	oraimo	
	Operating Voltage	Li-ion Battery:ZWD14280PV 650mAh 3.8V 2.47Wh Button Type Lithium Ion Cell:CH1254AA 3.85V 76mAh 0.2926Wh	X
	Remark:	N/A. WSCT WSCT V	15 CT
_			

WSET	WSCT	WSET	WSET	WSET
WSCT		ET WS	ET WS	WSCT*

W5 ET	WS CT"	W	SET W	SET WSET

W5 CT	W5ET*	WSET	W5 ET"	WSCT

W5 CT°	W5CT [®]	W5 CT	W5 CT°	W5CT [®]

WSCT WSCT WSCT WSCT	W5CT [®]

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3. **Test Result Summary**

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	Requirement	CFR 47 Section	Result	Walar
	CONDUCTED EMISSION	§15.107	PASS	
W5CT°	RADIATED EMISSION	W5ET §15.109 W5ET	PASS/5CT	
•	X X	X	X	\times
	Note: 1. PASS: Test item meets the require	ement. WSET	WSCT	WSET
	2. Fail: Test item does not meet the			
	3. N/A: Test case does not apply to	the test object.		
WSET	4. The test result judgment is decide	ed by the limit of test standard.	WSET	
	\times			
A				
	WS CT WS L	WSET	WSCT*	AWSET®
X	X	X	X	
WSET	WSET	WSET WSET	WSET	
	W5 [T] W5 [WSET	WSET	W5CT°
X	X	X	X	
WSCT	WSET	WSET WSET	WSET	
	WSET WSE	T WSET	W5CT*	WSET
X	X	X	X	
August 1	11/10/03			

X	X	X	X	X

W5CT WSET W5 CT W5 E1

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TEST METHODOLOGY 4.

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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

W5 Tevalua	ted respectively.	WSET	WSET	W5	7
,	Pretest Mode		Description		
W	Mode 1	5/7° W	Charging	WS CT°	WSET
	Mode 2		Bluetooth		
X	X	X	X	X	
Number 1	Wee can	Wee CT.	Week	/11/20	
WSET	W5 ET	WSET	WSET	W5	
	X	\times	X	X	\times
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		\sim			
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	/	/			
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X	X	X	X	>	
Number 1	NAC CT	August	Nuc ex	hue	
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	X	\times	X	\times	X
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WSET	WSET	WSET	WSCT	M	
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CONFIGURATION OF SYSTEM UNDER TEST

Configuration Setup 1:

Adapter2AXYP-OTW-630-L

2AXYP-OTW-630-L **EUT**

W5C

Configuration Setup 2:

2AXYP-OTW-630-L **EUT**

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(EUT: True Wireless Earbuds)

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\	I/O Port of EUT				
	I/O Port Type	Q'TY	Cable	Tested with	
	Power	1	0.5m USB cable,unshielded	/	i

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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 W5.07 accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

C i	Item	Equipment	Mfr/Brand	Model/Type No.	Series No.	Note
	1	Adapter	//	XCU32	X	/

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 FLength_ column. WSE W5 CT WSCT WS ET W5CI V5 CT WS CI W5 C1

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W5CT°

5. MEASUREMENT INSTRUMENTS

Last	Calibrated	
Kind of Equipment Manufacturer Type No. Serial No. Calibrated	until	LT °
Test software EZ-EMC CON-03A	\	
ESCI Test Receiver R&S ESCI 100005 11/05/2024	11/04/2025	
W5 7 LISN W5 7 AFJ W5 6 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 CT SC100 - 11/05/2024	11/04/2025	ET.
Bi-log Antenna Chase CBL6111C 2576 11/05/2024	11/04/2025	
Spectrum analyzer R&S FSU26 200409 11/05/2024	11/04/2025	
W 5 7 Horn Antenna V 5 7 SCHWARZBECK 7 7 9120D 1141 11/05/2024	11/04/2025	
Bi-log Antenna SCHWARZBECK VULB9168 01488 11/05/2024	11/04/2025	\mathcal{I}
Pre Amplifier H.P. HP8447E 2945A02715 11/05/2024	11/04/2025	
9*6*6 Anechoic 11/05/2024	11/04/2025	ET.

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		SET	WSET	WSET	WSET
WSCT	WSCT	WSET	WSET	\rightarrow	
		SET	WSET	WSET	WSET
WSET	WSLT	WSET	WSET	\rightarrow	
		X	X	X	X

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6. Facilities and Accreditations

6.1. Facilities

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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

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

AD). Certification Number	, 555.		
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\times	\times	\times	WSET
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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 %.

				_
WS ET	No.	Item	MU	
	1	Conducted Emission Test	±3.2dB	\setminus
	2	RF power, conducted	±0.16dB	
	3	Spurious emissions, conducted	±0.21dB	W5.
X	4	All emissions, radiated(<1GHz)	±4.7dB	
WSET	5	All emissions, radiated(>1GHz) // W5 [7]	±4.7dB/5_7	
	6	Temperature	±0.5°C	
	7	Humidity	±2.0%	WE

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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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					A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
/	FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard
	FREQUENCT (MITZ)	Quasi-peak	Average	Quasi-peak	Average	Stariuaru
Ī	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:

WS 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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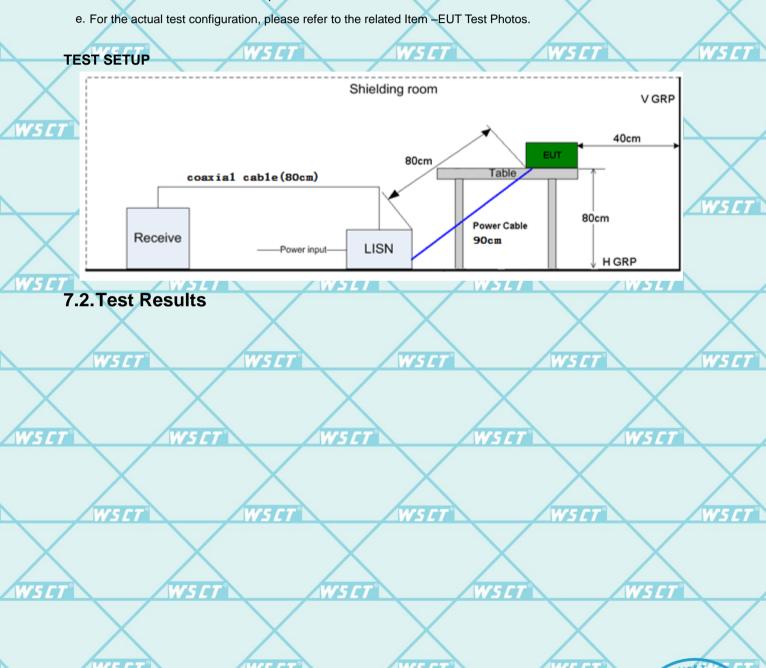
Report No.: WSCT-ANAB-R&E241200079A-15B

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.

W5C7

- 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.



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WSCT

WSET





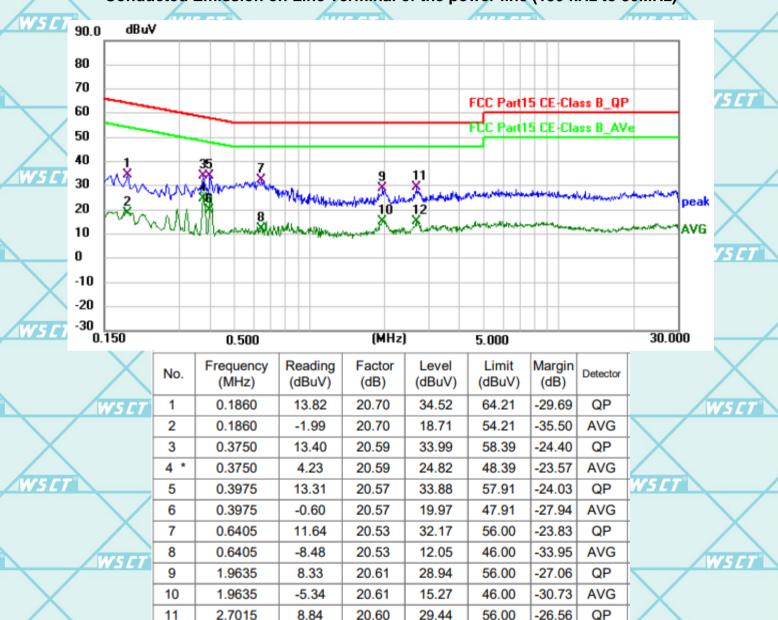


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W5 CT°

Temperature	20 ℃	Relative Humidity	48%	
Pressure	1010 hPa	Test Mode	Mode 1(the worst case)	WSLI

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



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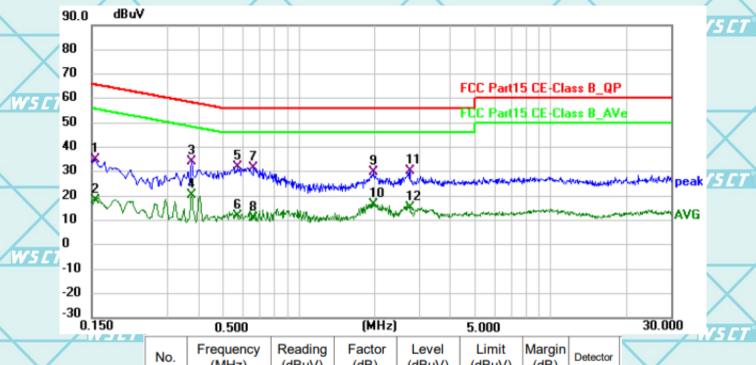
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Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



	No.	(MHz)	(dBuV)	(dB)	(dBuV)	(dBuV)	(dB)	Detector	
	1	0.1545	14.39	20.73	35.12	65.75	-30.63	QP	/
	2	0.1545	-2.62	20.73	18.11	55.75	-37.64	AVG	M
	3	0.3750	13.60	20.59	34.19	58.39	-24.20	QP	
X	4	0.3750	-0.21	20.59	20.38	48.39	-28.01	AVG	
	5 *	0.5685	11.54	20.52	32.06	56.00	-23.94	QP	
W5CT	6	0.5685	-8.78	20.52	11.74	46.00	-34.26	AVG	_
	7	0.6585	10.99	20.53	31.52	56.00	-24.48	QP	
	8	0.6585	-9.40	20.53	11.13	46.00	-34.87	AVG	
	9	1.9905	9.02	20.61	29.63	56.00	-26.37	QP	
	10	1.9905	-3.97	20.61	16.64	46.00	-29.36	AVG	1
X	11	2.7510	9.59	20.60	30.19	56.00	-25.81	QP	
	12	2.7510	-5.51	20.60	15.09	46.00	-30.91	AVG	
MECT		ME	FT®		MECT		1777	- CT°	

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 (dBµV) = Limit stated in standard

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

AVG =average Q.P. =Quasi-Peak

* 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

W5 CT

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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)
1	0.009~0.490	2400/F(KHz)	300
4	0.490~1.705	24000/F(KHz)	30
	1.705~30.0	30	30
	30~88	100	3
	88~216	150	3
V	216~960	200	N21 3 W21
	Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

 FREQUENCY (MHz)
 Limit (dBuV/m) (at 3M)

 PEAK
 AVERAGE

 Above 1000
 W5 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). W557

Spectrum Parameter	Setting
Attenuation	Auto
Start Frequency	5 CT W 51000 MHz W 5 CT
Stop Frequency	10th carrier harmonic
RB / VB (emission in restricted band)	1 MHz / 1 MHz for Peak, 1 MHz / 1Hz for Average

	MARCH STATE	WEE CT [®] WEE CT [®]
1	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

AWS CT

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IWS CT

WS CT



W5CT

4W5CT

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IWS CT

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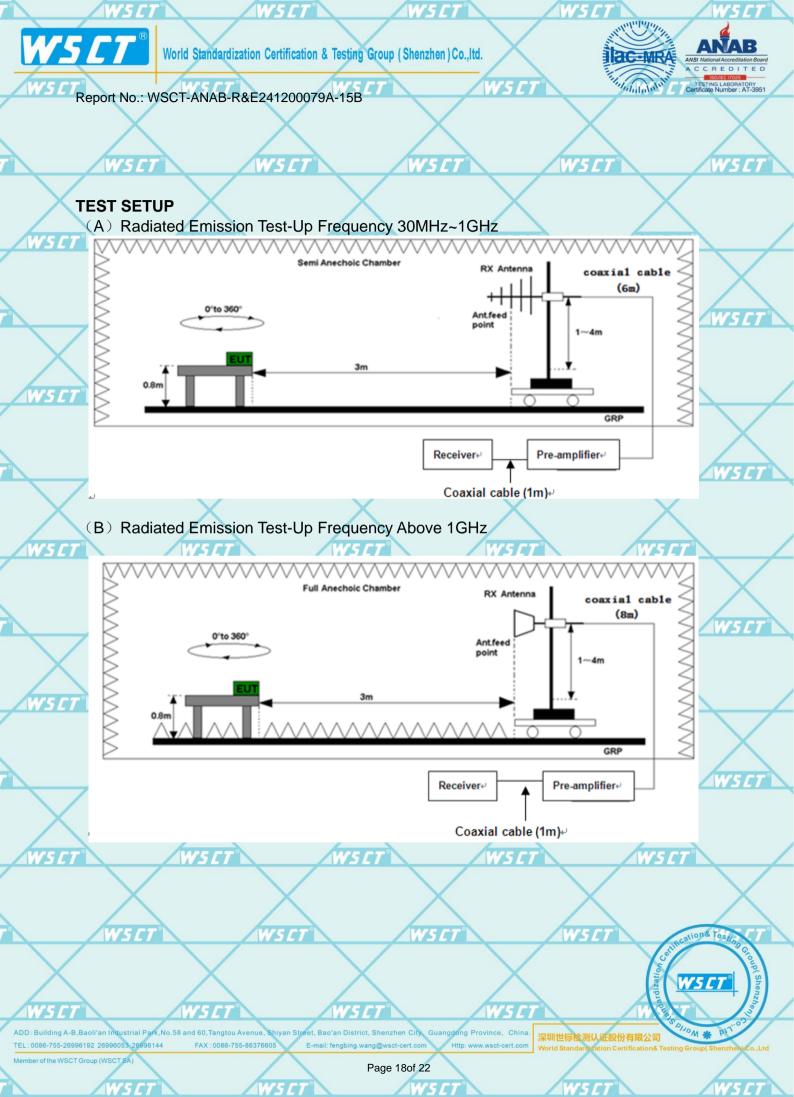
TEST PROCEDURE

- 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
 - f. For the actual test configuration, please refer to the related Item -EUT Test Photos.

WSET	WSET	WSLT	WSET	WSET
WSET	WSET	WSET	WSET	WSET
WSET	$\langle \rangle$	\times	WSET	WSET
WSET	WSET	WSCT	WSET	WSET
WSCI	$\langle \times $	\times	X	WSET
WSET	W5ET*	WSET	WSET	WSET
WSCI	$\langle \times$	(X
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W5 CT



W5C

Report No.: WSCT-ANAB-R&E241200079A-15B

1**W5***CT* **"1**

7.3.2. Test Results

Temperature 20 °C Relative Humidity 48%

W5 E1

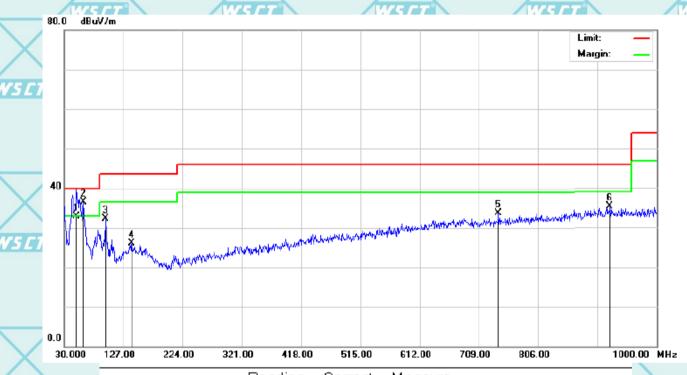
Pressure 1010 hPa Test Mode Mode 2(the worst case)

Please refer to following diagram for individual

WSE

Below 1GHz

Horizontal:



WS CT°	No.	Mk.	. Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		ET
			MHz	dBu∀	dΒ	dBuV/m	dBuV/m	dΒ	Detector	
	1		50.3699	35.04	-2.14	32.90	40.00	-7.10	QP	
W5	2	*	62.0099	39.84	-3.28	36.56	40.00	-3.44	QP	_/
	3		97.9000	38.03	-5.68	32.35	43.50	-11.15	QP	
	4		140.5800	28.46	-2.26	26.20	43.50	-17.30	QP	
W5 ET®	5		741.0099	28.18	5.50	33.68	46.00	-12.32	QP	CT°
	6		923.3700	27.40	7.95	35.35	46.00	-10.65	QP	

AWSCT"

WSET

AWS CT

W5 CT

Countries on the state of the s

WSET

WSCT

WS CT

IWS CT

深圳世标检测认证股份有限公司
World Standard zation Certification& Testing Group(Shenzhen) Co.,Lt

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WSET

WSCT

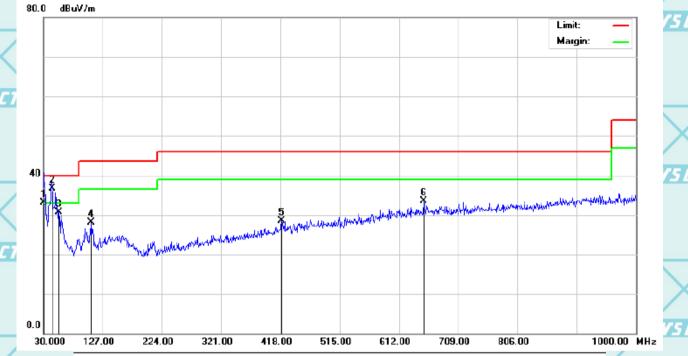






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Vertical:



	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over		<
			MHz	dBu∀	dB	dBuV/m	dBuV/m	dΒ	Detector	<u> </u>
\	1	ļ	30.0000	35.66	-2.60	33.06	40.00	-6.94	QP	
/	2	*	44.5500	38.73	-1.94	36.79	40.00	-3.21	QP	-
5	3		55.2200	33.31	-2.51	30.80	40.00	-9.20	QP	
ľ	4		108.5700	32.87	-4.74	28.13	43.50	-15.37	QP	/
	5		419.9400	28.23	0.26	28.49	46.00	-17.51	QP	
	6		652.7400	28.64	4.80	33.44	46.00	-12.56	QP	<u> </u>

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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Report No.: WSCT-ANAB-R&E241200079A-15B

W5CT"

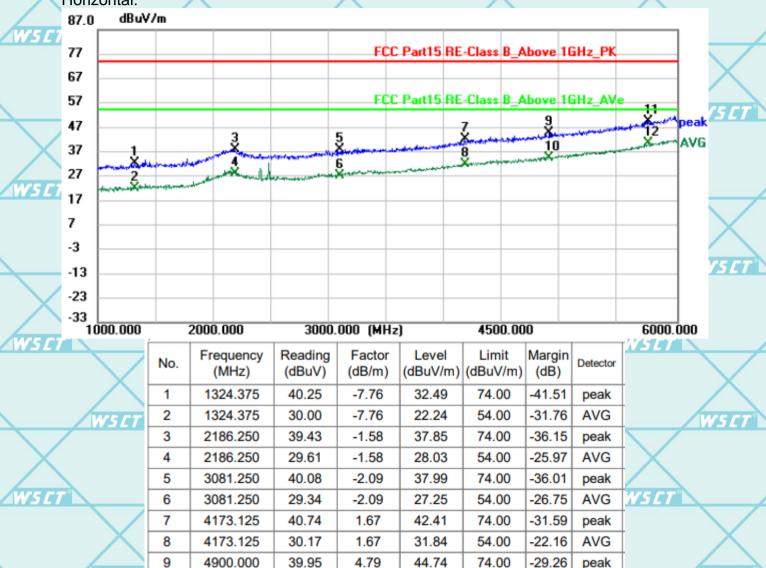
TEST RESULTS

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

W5CT°

W5CT

Note: The spurious above 6G is noise only, do not show on the report. Horizontal:



W5CT"

SET WSE

29.63

41.51

32.17

4900.000

5758.125

5758.125

54.00

54.00

74.00

WELT

W5CT

WSET

WSET

34.42

49.69

40.35

WSCT

AVG

peak

AVG

-19.58

-24.31

-13.65

WSCT Sienz

WSCT

4WSCT

10

11

12

WELT

4.79

8.18

8.18

AWS CT

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W5 CT Report No.: WSCT-ANAB-R&E241200079A-15B Vertical: dBuV/m 87.0 77 FCC Part15 RE-Class B_Above 1GHz_PK 67 FCC Part15 RE-Class B_Above 1GHz_AVe 57 47 12 X AVG 37

-3 -13 -23

27 17

-33

1000.000

2000.000

3000.000 (MHz)

4500.000

74.00

54.00

-23.60

-13.52

peak

AVG

6000.000

\neg	7			_	
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4 4		- 75	,,	,	

W5 CI

-									
7	No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
	1	1403.125	39.50	-7.42	32.08	74.00	-41.92	peak	
	2	1403.125	29.94	-7.42	22.52	54.00	-31.48	AVG	
	3	2425.625	48.08	-3.97	44.11	74.00	-29.89	peak	W
	4	2425.625	39.27	-3.97	35.30	54.00	-18.70	AVG	
	5	3456.250	39.99	-1.23	38.76	74.00	-35.24	peak	
	6	3456.250	30.13	-1.23	28.90	54.00	-25.10	AVG	
	7	4428.750	39.40	2.71	42.11	74.00	-31.89	peak	
	8	4428.750	29.38	2.71	32.09	54.00	-21.91	AVG	
	9	5155.000	39.71	5.75	45.46	74.00	-28.54	peak	/
	10	5155.000	29.87	5.75	35.62	54.00	-18.38	AVG	W

Remark:

41.31

31.39

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

9.09

9.09

Freq. = Emission frequency in MHz

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

5891.250

5891.250

Over= Emission Level - Limit.

11

12 *

All the x/y/z orientation has been investigated, and only worst case is presented in this report.

****END OF REPORT****

W5C1

50.40

40.48

WS CI

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