





For Question,
Please Contact with WSC1

TEST REPORT

FCC ID: 2AXYP-OTW-330S-R

Product: True Wireless Earbuds

Model No.: OTW-330S

Trade Mark: oraimo

Report No.: WSCT-A2LA-R&E240400018A-15B

Issued Date: 19 April 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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WSET









Report No.: WSCT-A2LA-R&E240400018A-15B

Revision History

Certificate #5768.01

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Report No.: WSCT-A2LA-R&E240400018A-15B

Test Certification

Product:

True Wireless Earbuds

Model No .:

OTW-330S

Additional

Model:

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:

28 March 2024

Date of Test:

29 March 2024 ~ 18 April 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:

(Wang Xiang)

Checked By:

(Qin Shuiguan)

Approved By:

(Liu Fuxin)

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2. GENERAL DESCRIPTION OF EUT

				WWW.Wact-Cort.C
7	Product Name:	True Wireless Earbuds	WETTE	1111
	Model :	OTW-330S	\times	
	Trade Mark:	oraimo	The state of the s	1
/	_	Li-ion Battery: 501012 Voltage: 3.7V Rated Capacity: 40mAh Limited Charge Voltage: 4.2V Charging Box: 902235 Output: 5V200mA Input:5V1A Capacity:600Ah/3.7V/2.22Wh	N/5741	X 151 s
ý	Remark:	N/A.	1679	

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

2. Antenna gain provided by the applicant

WEIGH	WHITE	NIFI W	WSIG	WESTER	
	741			14.6	1100
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3. Test Result Summary

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	Z11/44 M Z11/44 M		ZULTHE Z
7	Requirement	CFR 47 Section	Result
	CONDUCTED EMISSION	§15.107	PASS
9	RADIATED EMISSION	§15.109	PASS

	CONDUCTED EMISSIC	N §15.107	PASS
AVISIET	RADIATED EMISSION	§15.109	PASS
	Note: 1. PASS: Test item meets the re	equirement.	WHI OF THE PARTY O
1	2. Fail: Test item does not mee		
X	3. N/A: Test case does not app	X	X
AVEGE	4. The test result judgment is de	ecided by the limit of test standard.	WSG
	NVSIG NV	STOP NISTON	NISTA NISTA
WEET	Wester	AVE AVE	WEIGH
	NVF14	Ser AVSG	VIETURE VIETURE
WISTER	WSI	WEST AT THE WAST	7/67/91
	N/SIGN AV	SIG. NYSIG.	WSGI
NHI	WASTER	NVET # AVET	172-100
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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
8	Mode 1	charging
	Mode 2	Bluetooth transmission

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

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WZFI					7.0
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NV-FI		$\langle \ \rangle$			7.70
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NVET		$\langle \ \rangle$			74
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World Star Vis Status Communication	多 世标检测认证股份 TEL (S) Dro Group (Shenzhen) Co., Ltd.	D:Building A-B Baoshi Science & Techr 86,755-26996192 26992306 FAX-86-7	nology Park, Baoshi Road, Bao'an D	District, Shenzhen, Guangdong, Cl	nina

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4.1. CONFIGURATION OF SYSTEM UNDER TEST

Mode 1

O.3 m cable
AC ADAPTER

W.S. EUT

Mode 2

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EUT

(EUT: True Wireless Earbuds)

7	I/O Port of EUT					
/	I/O Port Type	Q'TY	Cable	Tested with		
	Power	116741	0.3m USB cable, unshielded	1779		
	Earphone	/	X 1	/		

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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	217797	11774	41779	

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 Length column.

	N/Hai	WHIDE	77514	N/H	WHI
		\leq			
AVE	WETER	AVISITE AVIS	WSI	William	WETER
NV K					79.0
	WEIGH	WATER	WSG	Wister	WEIGH
N. W.		WES			700
	X	WST	NETH	WESTER	VIETU
	Setting Gales				X

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5. MEASUREMENT INSTRUMENTS

	Kind of Equipment	Manufacturer	Type No.	Serial No.	Last Calibrated	Calibrated until	Ž
×	Test software		EZ-EMC	CON-03A)	V	
	ESCI Test Receiver	R&S	ESCI	100005	11/05/2023	11/04/2024	
7	LISN W5Z	AFJ	5// LS16	16010222119	11/05/2023	11/04/2024	
	LISN(EUT)	Mestec	AN3016	04/10040	11/05/2023	11/04/2024	v
	pre-amplifier	CDSI	PAP-1G18-38	I	11/05/2023	11/04/2024	n
	System Controller	W CT 7	SC100	-	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	X
	9*6*6 Anechoic	17270	17334	- /	11/05/2023	11/04/2024	7

N15141	WETGE	NI-THE	VISTA	175191	
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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%

WETER	175707	N/E/4	NV5197	WETET
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7. EMC EMISSION TEST

7.1. CONDUCTED EMISSION MEASUREMENT

7.1.1. POWER LINE CONDUCTED EMISSION LIMITS

	The state of the s	- /1/	I'vi vill sale villa v	JULY 1 July 100 make	ALC: U	AND THE SECOND SHOW AND AND ADDRESS.
	FREQUENCY (MHz)	Class A	(dBuV)	Class B	(dBuV)	Standard
	FREQUENCT (MINZ)	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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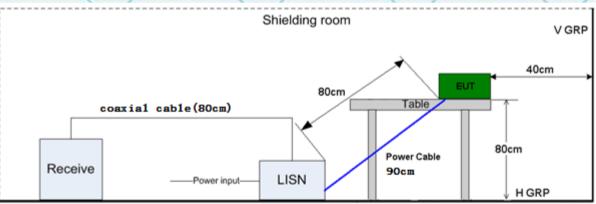
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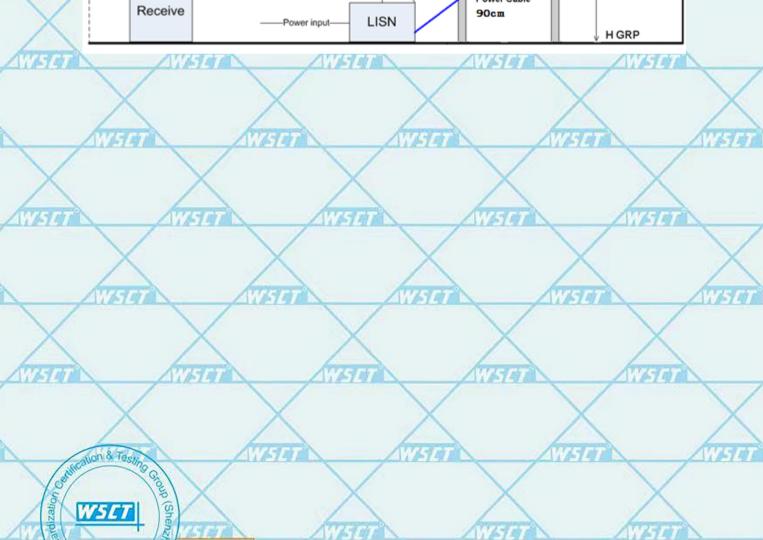
TEST PROCEDURE

- a. The EUT was placed 0.4 meters from the horizontal ground plane with EUT being connected to the power mainswwwsct-cert.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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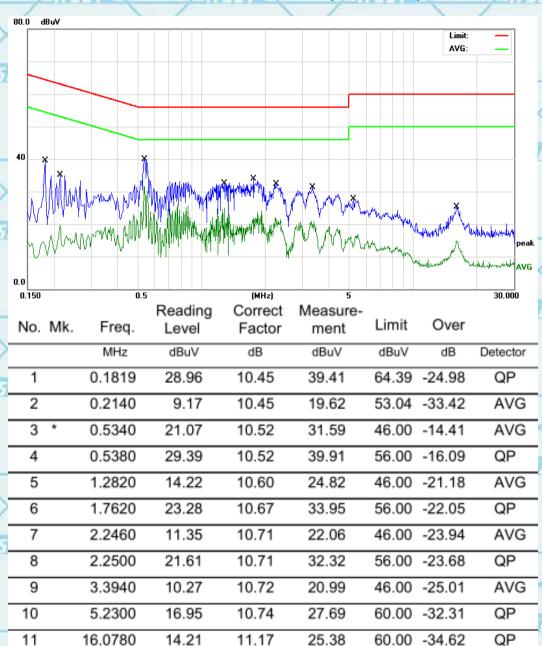
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7.2. Test Results

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

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



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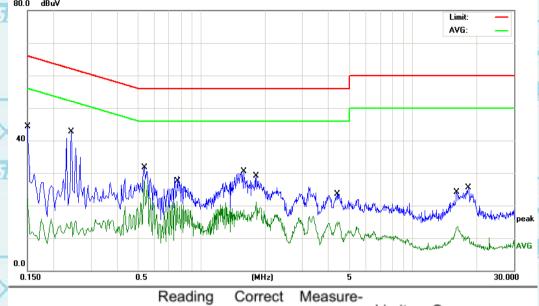






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7	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
7			MHz	dBuV	dB	dBuV	dBuV	dB	Detector
	1		0.1500	33.89	10.45	44.34	65.99	-21.65	QP
	2		0.1500	11.65	10.45	22.10	55.99	-33.89	AVG
	3		0.2420	32.25	10.46	42.71	62.02	-19.31	QP
>	4	*	0.5340	17.44	10.52	27.96	46.00	-18.04	AVG
	5		0.5380	21.21	10.52	31.73	56.00	-24.27	QP
7	6		0.7660	10.72	10.54	21.26	46.00	-24.74	AVG
	7		1.5780	19.76	10.64	30.40	56.00	-25.60	QP
	8		1.8180	10.33	10.68	21.01	46.00	-24.99	AVG
	9		4.3620	12.85	10.73	23.58	56.00	-32.42	QP
>	10		4.4260	4.42	10.73	15.15	46.00	-30.85	AVG
	11		16.1580	2.28	11.17	13.45	50.00	-36.55	AVG
	12		18.2340	14.31	11.10	25.41	60.00	-34.59	QP

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)

n [&]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
7	(MHz)	(micorvolts/meter)	(meters)
	0.009~0.490	2400/F(KHz)	300
	0.490~1.705	24000/F(KHz)	30
4	1.705~30.0	30	30
V	30~88	100	3
	88~216	150	3
	216~960	200	× 3
	Above 960	500	3

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

2	FREQUENCY (MHz)	Limit (dBu\	//m) (at 3M)
1	TINEQUENCT (MITZ)	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.

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NV ES		NIE NIE	ATT NY	190	FIELE
WEIGH	WSG	WSI	Weigh	WSI	
		ATE ATE		74.	151 H M
WSET	WSI	V/67.91	N/65/97	N/STO	
WES				707	Elas
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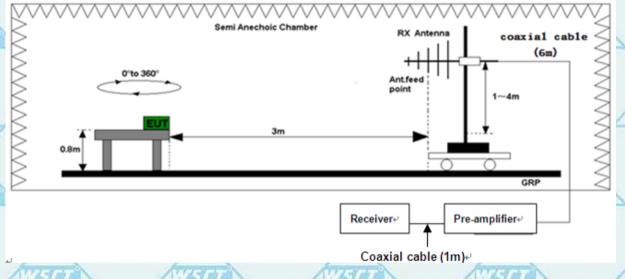
Report No.: WSCT-A2LA-R&E240400018A-15B

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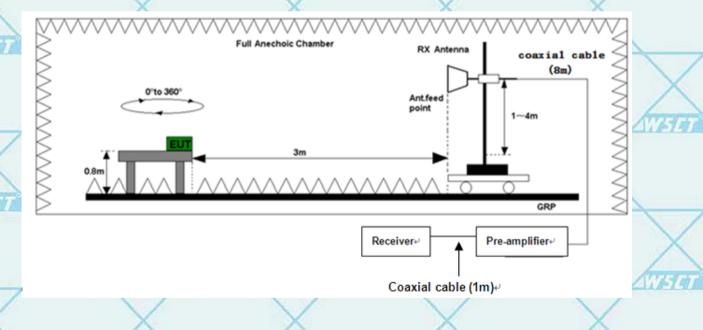
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TEST SETUP

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



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



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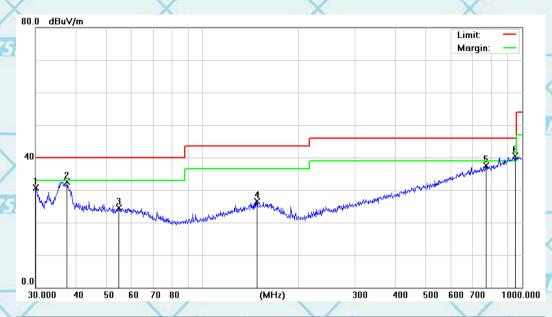
7.3.2. Test Results

1	Temperature	20 ℃	Relative Humidity	48%
	Pressure	1010 hPa	Test Mode	Mode 2(the worst case)

Please refer to following diagram for individual

Below 1GHz

Horizontal:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	4
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	1	30.0000	32.37	-1.73	30.64	40.00	-9.36	QP
2	1	37.6798	33.40	-0.84	32.56	40.00	-7.44	QP
3		54.6429	26.01	-1.46	24.55	40.00	-15.45	QP
4	8	147.9214	26.59	-0.05	26.54	43.50	-16.96	QP
1 5	1	771.4486	26.71	10.84	37.55	46.00	-8.45	QP
6	* (952.0937	26.74	13.79	40.53	46.00	-5.47	QP

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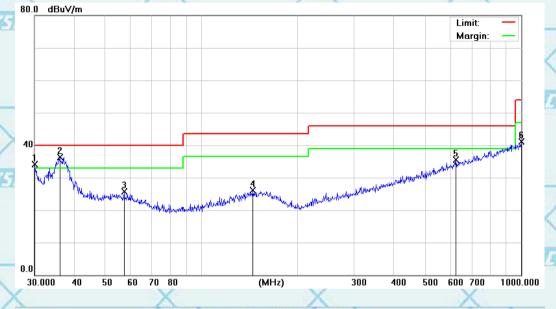


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Vertical:



No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	To a
		MHz	dBuV	dB	dBuV/m	dBuV/m	dB	Detector
1	1	30.0000	35.81	-1.73	34.08	40.00	-5.92	QP
2	* 1	36.0007	37.52	-1.12	36.40	40.00	-3.60	QP
3		57.1914	27.31	-1.56	25.75	40.00	-14.25	QP
4		144.8418	26.46	-0.29	26.17	43.50	-17.33	QP
74.5	1	625.0780	27.14	8.30	35.44	46.00	-10.56	QP
6		1000.000	26.72	14.33	41.05	54.00	-12.95	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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TEST RESULTS

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

	Freq.	Ant.	Emission		Limit		Over(dB)	
3	(MHz)	Pol.	Level(dBuV)		3m(dBuV/m)		A AMPRICA	
4	/	H/V	PK	AV	PK	AV	PK	AV
	1550.72	V	57.84	40.82	74	54	-16.16	-13.18
	2977.31	V	63.30	39.52	74	54	-10.70	-14.48
	1557.64	Н	61.64	40.05	74	54	-12.36	-13.95
7	2780.50	=	57.98	41.98	74	54	-16.02	-12.02

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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steation & Testing	WEIGH	WEIGHT

检测认证股份 ienzhen) Co. Ltd.

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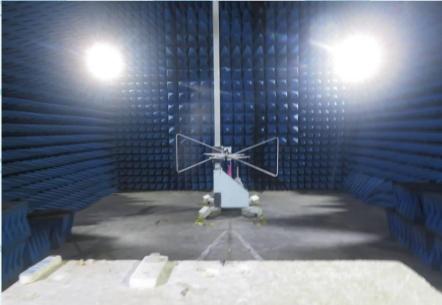
Test Setup Photographs 8.

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RADIATED EMISSION TEST BELOW 1GHz



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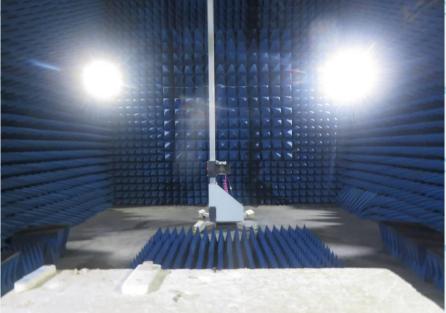


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RADIATED EMISSION TEST ABOVE 1GHz



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

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