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





FCC RF Exposure Report

For

WS CT

ORAIMO TECHNOLOGY LIMITED

FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25

SHAN MEI STREET FOTAN NT HONGKONG

Model: OTW-323

Test Engineer: Xu Yihan

XwYihan

Report Number: WSCT-ANAB-R&E241200078A -SAR

Report Date:

17 January 2025

2AXYP-OTW-323-R FCC ID:

Check By:

Zhou Yan

Zhou

Approved By:

Li Huaibi

World Standardization Certification & Testing Group

Prepared By:

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深圳世标检测认证股份有限公司



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SAR Evaluation Report



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Modified History

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X	REV.	Modification Description	Issued Date	Remark	
5/4	REV.1.0	Initial Test Report Relesse	17 January 2025	Li Huaibi	
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1 General information

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1.1 Notes

The test results of this test report relate exclusively to the test item specified in this test report. Shenzhen Timeway Testing Laboratories does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reproduced or published in full without the prior written permission.

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SAR Evaluation Report



1.2 EUT Information

	/ UPIGE / UPIGE	TIPLE TO THE TOTAL	261
/	Device Information:		
	Product Type:	True Wireless Earbuds	
//	Model:	OTW-323	$\overline{}$
	Trade Name:	oraimo	X
	Device Type:	Portable device	SET
	Exposure Category:	uncontrolled environment / general population	
/	Production Unit or Identical Prototype:	Production Unit	
	Antenna Type :	Chip Antenna	
	Device Operating Configurations:		X
	Modulation:	GFSK, π/4-DQPSK, 8-DPSK	SET
/	Modulation Technology:	FHSS	
	Channel Separation:	BT:1MHz BLE: 2MHz	
<u>C</u> 1	Operation Frequency:	2402MHz~2480MHz	/
	Antenna Gain:	1.73dBi	X
<	Power Source:	Rated Capacity: 500mAh 1.85Wh Earphone Battery: Li-ion Battery: 451012 Rated Voltage: 3.7V Rated Capacity: 35mAh 0.1895Wh	SET

Note: The test results of this test report relate exclusively to the test item specified in this test report. World Standardization Certification & Testing Group (Shenzhen) Co.,Ltd does not assume responsibility for any conclusions and generalisations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report is not to be reproduced or published in full without the prior written permission.

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Testing laboratory WSIT 2

J	Test Site	World Standardization Certification & Testing Group (Shenzhen) Co., Ltd.
5	Laboratory A:	Building A-B,Baoli'an Industrial Park,No.58 and 60,Tangtou Avenue, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province, China
4	Laboratory B:	Building J-7F and Building D, Dongjiang Science & Technology Park, Tangjia Community, Fenghuang Street, Guangming District, Shenzhen City, Guangdong Province, China

ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

CBTL	IECEE(international Electrotechnical Commiss,The	Laboratory A Laboratory B
CBIL	certificate registration number is TL672)	Laboratory B
China	CNAS (The certificated registration number: L3732)	Laboratory A
Cillia	(The certificated registration furfiber, £3732)	Laboratory B
USA	A2LA (The certificated registration number: 5768.01)	Laboratory A
USA	(The certificated registration number: 5708.01)	Laboratory B
USA	ANAB (The certificated registration number:AT-3951)	Laboratory A
USA	(The certificated registration number.A1-3931)	Laboratory B

Copies of granted accreditation certificates are available for downloading from our web site, http://www.wsct-cert.com

Applicant and Manufacturer

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1	Applicant/Client Name:	ORAIMO TECHNOLOGY LIMITED
/	Applicant Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG
9	Manufacturer Name:	ORAIMO TECHNOLOGY LIMITED
	Manufacturer Address:	FLAT N 16/F BLOCK B UNIVERSAL INDUSTRIAL CENTRE 19-25 SHAN MEI STREET FOTAN NT HONGKONG

5 Test standard/s:

Identity **Document Title** No. Radio frequency devices intentional radiators 47 CFR Part 15C 47 CFR Part 2.1093 Radio frequency radiation exposure evaluation: portable devices 2

KDB447498 D01 General RF Exposure Guidance v06

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SAR Evaluation Report



6 Test result

I .According KDB 447498 D01 4.3.1 General SAR test exclusion guidance

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The minimum test separation distance defined in 4.1 f) is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander. To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified, typically in the SAR measurement or SAR analysis report, by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, according to the required published RF exposure KDB procedures. When no other RF exposure testing or reporting are required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for SAR test exclusion. When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions; for example, handheld PTT two-way radios, handsets, laptops and tablets, etc.

a) For 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] ·

[\sqrt{f} (GHz)] ≤ 3.0 for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR, where

- 1).f (GHz) is the RF channel transmit frequency in GHz
- 2) Power and distance are rounded to the nearest mW and mm before calculation WS 7
- 3) The result is rounded to one decimal place for comparison
- 4) The values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm, and for transmission frequencies between 100 MHz and 6 GHz.

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	Test Mode	Channel Frequency (GHz)	Conducted power (dBm)	Conducted power (mW)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
7		2.402	4.50	2.82	5.00	3.16	5.00	0.980	3.00	Yes
	GFSK	2.441	3.96	2.49	5.00	3.16	5.00	0.988	3.00	Yes
		2.480	3.15	2.07	5.00	3.16	5.00	0.996	3.00	Yes
	-/4	2.402	5.23	3.33	5.50	3.55	5.00	1.100	3.00	Yes
	π/4- DQPSK	2.441	4.78	3.01	5.50	3.55	5.00	1.109	3.00	Yes
	DQF3N	2.480	3.91	2.46	5.50	3.55	5.00	1.118	3.00	Yes
		2.402	5.58	3.61	6.00	3.98	5.00	1.234	3.00	Yes
7	8-DPSK	2.441	5.10	3.24	6.00	3.98	5.00	1.244	3.00	Yes
		2.480	4.31	2.70	6.00	3.98	5.00	1.254	3.00	Yes

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BLE:

	Test Mode	Channel Frequency (GHz)	Conducted power (dBm)	Conducted power (mW)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
1		2.402	4.31	2.70	4.50	2.82	5.00	0.874	3.00	Yes
	BLE(1M)	2.440	4.38	2.74	4.50	2.82	5.00	0.881	3.00	Yes
		2.480	3.80	2.40	4.50	2.82	5.00	0.888	3.00	Yes
		2.402	4.52	2.83	5.00	3.16	5.00	0.980	3.00	Yes
	BLE(2M)	2.440	4.38	2.74	5.00	3.16	5.00	0.988	3.00	Yes
A		2.480	3.78	2.39	5.00	3.16	5.00	0.996	3.00	Yes

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7 Conclusion

WSET For the max result: 1.254 FCC Limit 3.0 for 1g SAR.

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