

中国认可 国际互认 检测 TESTING CNAS L4062



# **TEST REPORT**

Reference No	WTF23X06138820Y
Applicant	Mid Ocean Brands B.V.
Address	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer :	114768
Address	white white whe with the start start start
Product Name :	Recycled ABS TWS Earbuds
Model No	MO6946
Test specification	EN 50332-2:2013: Sound system equipment: Headphones and earphones associated with personal music players - Maximum sound pressure level measurement methodology Part 2: Matching of sets with headphones if either or both are offered separately, or are offered as one package equipment but with standardized connectors between the two allowing to combine components of different manufacturers or different design
Date of Receipt sample	2023-06-28
Date of Test	2023-06-30 to 2023-07-03
Date of Issue	2023-07-04
Test Report Form No	WTX_EN50332_2_2013A
Test Result	Pass A A

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of approver.

# Prepared By: Waltek Testing Group (Shenzhen) Co., Ltd.

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Tested by:

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Dur

Harvid Wei

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Page 2 of 8



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Waltek Testing Group (Shenzhen) Co., Ltd.
1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd
Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

General product information:

The sample(s) tested complies with the requirements of EN 50332-2: 2013.

Model Differences Main test models: MO6946

Summary of testing:

All tests had been assessed for safety with respect to the above test specifications and found to comply with the requirements of the standards.





Test case verdicts	Tet out would would work work wo
Test case does not apply to the test object :	N(N/A)
Test item does meet the requirement:	P(Pass)
Test item does not meet the requirement:	F(Fail)
Degree of protection against moisture:	IPX0
General remarks	with the set set state with
The test result presented in this report relate	only to the object(s) tested.
This report shall not be reproduced, except ir laboratory.	n full, without the written approval of the Issuing testing
The report would be invalid without specific sta The report would be invalid without the signate "(see Enclosure #)" refers to additional inform "(see appended table)" refers to a table appe	ures of reporter and reviewer. nation appended to the report.
Remark:	at at the set with with million
Whether parts of tests for the product have b Yes	een subcontracted to other labs: ⊠ No
If Yes, list the related test items and lab infor Test items:	mation:
Lab information:	



EN 50332-2: 2013			
Clause	Requirement – Test	Result - Remark	Verdict

4	Basic conditions for specifications and measurements	
4.1	General description	Star Star Star .
ex vinit	The sound pressure level produced by headphones or earphones can be measured by subjective methods or by objective methods.	at which we set
WALTER JEX	The reference method for evaluating the sound pressured level emitted by earphones is a psycho acoustic method known as "equal loudness" (EN60268-7)	P
4.2	Measuring principle	Р
10 JUN 4 J	The standard is based on the use of a Head and Torso Simulator (HATS) in accordance with IEC 60318-7	Р
Whitek	The sound pressure level measured by the ear simulator microphone represents the pressure found at eardrum level and differs from that of the free field pressure by the HATS transfer function	P

5	Player characteristics and methods of measurement		P A
5.1	Maximum output voltage Vm	LIE WLIE WALL WALL W	N
5.2	Method of measurement and conditions	2 12 12 15 15	N N
5.2.1	Input signal	white white all all	N
white w	Actual musical signals are continuously fluctuating in both amplitude and spectral contents and thus cannot be used as test signals	white white white white	N
er wi	The test signal must therefore be a stationary wide-band signal, the spectral content of which is representative of the musical signals.	and which which which which	N
whitek	The test signal used to determine the maximum sound pressure level of headphones shall be programme simulation noise, as defined in HD 483.1 S2.	A would would would would	r (dr NN
5.2.2	Operating conditions	White white white white	W N W
State St	- By a established power supply	at at at states	Set N. S
	- tolerance of nominal supply voltage	the muse muse muse an	N
white	- All controls are adjusted to maximum sound pressure level	set whilet while while whi	N
IN LIE	- load of player output	- tet ster stree wire	NN S

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EN 50332-2: 2013			
Clause	Requirement – Test	Result - Remark	Verdict
5.2.3	Method of measurement for analogue audio outputs	- ret wret wret wi	N
NITEX WIN	The measuring equipment shall conform to: - EN 61672-1, class 1 for (sound level meters); - EN61260, class 1 for (1/3 octave analysers).	White white white white	N. S.
iet white	The maximum output voltage Vm shall be defined as unweithted r.m.s. voltage at the load, using an averaging time of 30 s or more.	Jet whitet whitet whitet	N
5.2.4	Method of measurement for digital audio outputs	at milet while while wh	SNN N
witter w	The maximum output level Lm shall be defined as average of digital signal, using an averaging time of 30 s or more.	watter watter watter watt	N
L'IE WALT	The digital input test signal is defined in EN 50332-1 as -10 dBFS.	NITER WALTER WALTER WALTER	S S Nor

6 🖉	Headphone/Earphone characteristics and methods of measurement		Pot
6.1	Measuring equipment	INTER WATER WATE WA	√ <sup>™</sup> P
NLTEX W	The measuring equipment shall be in accordance with EN 61672-1when connected with a HATS microphone.	at a white white	Р
6.2	Simulated programme signal characteristic voltage		Р
6.3	Method of measurement arrangement and conditions	et wontet wontret wontret w	Р
6.3.1	Input signal	set with whet with	Р
LIEK W	- is program simulation noise as defined in HD 483.1 S2	set super muser south	P
d 1	- according part 1, subclause 5.1	I we with	⊘+ P⊰
6.3.2	Source impedance of analogue input devices	ret while while while a	Р
NUTER	- output impedance of the test signal source	t let set set a	P
6.3.3	Acoustical measurement method	mur mur mur m	Р
6.3.4	Headphones / earphones fit	which maret and and	P -s
iter whi	- Position correctly for measuring maximum sound pressure	ster whet multiply white	P.N
+ .0	- the manufacturer's instruction for correct use	in a stat	P /
6.3.5	Measure of evaluation	The write write write w	Р
Set	- part 1, subclause 6.4	A A A .	P

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EN 50332-2: 2013				
Clause	ise Requirement – Test Result - Remark			
dit.	- sound pressure level reaches 94 dB SPL	we we we at	N	

Annex A	Example test procedure for acoustic safety of listening devices	
A.1	Acoustic coupling between listening device's receiver and the ear simulator on HATS(head and torso simulator)	
A.1.1	General	
A.1.2	Circum-aural, Supra-aural and Supra-concha listening devices	Р
A.1.3	Intra-concha listening devices	P
A.1.4	Insert type listening devices	P
A.2	Measurement and Analysis(General)	o P
A.3	Corded analogue listening device	NS NS
A.4	Corded digital listening device	
A.5	Cordless digital listening device	
A.6	Listening device with multiple operating modes	





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## Table 2 – Classification of the characteristics to be specified

Subclause	Characteristics	Products
5.1	Maximum output voltage	Player
6.1	Wide band characteristic voltage	Headphones

#### Measuring result:

5.1	Measuring result		N N N	
	SPL (dB)	Vmax (mV)	Criterion request(mV)	
Left side	the state	REFER NALIER WALLE WALL WALL	-me-me	
Right side	white white white white the	2 14 15- 15 5ª	- auter muter as	

6.3.5	Measuring result (SPL) (Part 1, 6.4) (Bluetooth mode)				P X
me n	Measurement No.1	Measurement No.2	Measurement No.3	Measurement No.4	Measurement No.5
Left side	94.01	94.03	94.02	94.01	94.01
Right side	96.96	97.02	96.99	96.99	96.96
Average	Left side: 94.02		Right side: 96.98	a Sunt -	in my a

6.3.5	Measuring result (WBCV)	white white white Public	
	SPL (dB)	Vwbcv (mV)	Criterion request(mV)
Left side	94	re white white white w	≥75
Right side	94	1 1 1 1 1	≥75

Page 8 of 8



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Photo Documentation Model: MO6946



Photo 2

===== End of Report ======

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