



TEST REPORT

Reference No	:	WTF24X08196287Y
Applicant	*	Mid Ocean Brands B.V.
Address	. J	7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong
Manufacturer	The.	118966
Address	NITE!	and the super supe
Product Name	, t	TWS earbuds in bamboo case
Model No	٠.	MO2303
Test specification	. ns	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	į	2024-10-25
Date of Test		2024-10-28 to 2024-10-29
Date of Issue	÷	2024-10-29
Test Report Form No	4	WTX FN50332 2 2013A

Remarks:

Test Result.....

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.

Address: 1/F., Room 101, Building 1, Hongwei Industrial Park, Liuxian 2nd Road, Block 70 Bao'an District, Shenzhen, Guangdong, China

Tel:+86-755-33663308 Fax:+86-755-33663309 Email: sem@waltek.com.cn

Kevin Ye	Harvid Wei	
kevin Ye	tellow	
Tested by:	Approved by:	



Test item description	TWS earbuds in bamboo case
Trademark:	his wall and a start the state of
Model and/or type reference:	MO2303
Rating(s):	DC5V
Test Laboratory	Waltek Testing Group (Shenzhen) Co., Ltd.
Address	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: MO2303

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.

Waltek Testing Group (Shenzhen) Co., Ltd. http://www.waltek.com.cn



Test case verdicts
Fest case does not apply to the test object : N(N/A)
Fest item does meet the requirement: P(Pass)
Fest item does not meet the requirement: F(Fail)
Degree of protection against moisture: IPX0
General remarks
The test result presented in this report relate only to the object(s) tested.
This report shall not be reproduced, except in full, without the written approval of the Issuing testing aboratory.
The report would be invalid without specific stamp for test institute or the authority. The report would be invalid without the signatures of reporter and reviewer. (see Enclosure #)" refers to additional information appended to the report. (see appended table)" refers to a table appended to the report.
Remark: The title mate many the title mate many the title materials and the ti
Whether parts of tests for the product have been subcontracted to other labs: ☐ Yes ☐ No
f Yes, list the related test items and lab information: Test items:
_ab information:



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

400	Basic conditions for specifications and measurements (For basic conditions on measurements of the maximum sound pressure level, reference is made to EN 50332-1.)	
4.1	General description	Р
uni Life	The sound pressure level produced by headphones or earphones can be measured by subjective methods or by objective methods.	P
unliek.	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	Life Puni
y whi	The standard is based on the use of a Head and Torso Simulator (HATS) in accordance with IEC 60318-7	P
WALTER NITER	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 00	Player characteristics and methods of measurement	N N
5.1	Maximum output voltage Vm	+ At A NOT
5.2	Method of measurement and conditions	N
5.2.1	Input signal	miter with white
TLEK AN	Actual musical signals are continuously fluctuating in both amplitude and spectral contents and thus cannot be used as test signals	North North
ek white	The test signal must therefore be a stationary wide-band signal, the spectral content of which is representative of the musical signals.	N N
WILL M	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.	WALL WALLEY WAT N
5.2.2	Operating conditions	THE THE STEEN
L 3	- By a established power supply	N
MULL	- tolerance of nominal supply voltage	white unit will
NALTEK.	- All controls are adjusted to maximum sound pressure level	MITEL MITE SIN Nº

Waltek Testing Group (Shenzhen) Co., Ltd. http://www.waltek.com.cn



EN 50332-2: 2013				
Clause	Requirement – Test	Result - Remark	Verdict	
, et	- load of player output	The the test	N	
5.2.3	Method of measurement for analogue audio outputs	MULTE MALTE MALL	n N	
iek vile	The measuring equipment shall conform to: - EN 61672-1, class 1 for (sound level meters); - EN61260, class 1 for (1/3 octave analysers).	UNLIER WALTER WALLE W	I N	
- WILTER	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.	A STEE WITER WITER	- IN IT - IN IT	
5.2.4	Method of measurement for digital audio outputs	A ST ST	N N	
itek mit	The maximum output level Lm shall be defined as average of digital signal, using an averaging time of 30 s or more.	White Much when a	ITEK WITEK WILL	
ek unliek	The digital input test signal is defined in EN 50332-1 as -10 dBFS.		et New	

6	Headphone/Earphone characteristics and methods of measurem	ent P
6.1	Measuring equipment	the title of P and
iek win	The measuring equipment shall be in accordance with EN 61672-1when connected with a HATS microphone.	AND THE PAIR
6.2	Simulated programme signal characteristic voltage	PIET
6.3	Method of measurement arrangement and conditions	ALIET MILET MILET
6.3.1	Input signal	Р
er «	- is program simulation noise as defined in HD 483.1 S2	P
Me	- according part 1, subclause 5.1	mr m P
6.3.2	Source impedance of analogue input devices	TEX TIP PER
12,	- output impedance of the test signal source	P
6.3.3	Acoustical measurement method	nite with with P way
6.3.4	Headphones / earphones fit	of at at Pur
× 70°	- Position correctly for measuring maximum sound pressure	P P
m	- the manufacturer's instruction for correct use	mr. mr. nb
6.3.5	Measure of evaluation	THE THE REP



EN 50332-2: 2013				
Clause	Requirement – Test	Result - Remark	Verdict	
J. St.	- part 1, subclause 6.4	Mr. M. M. A.	P	
and a	- sound pressure level reaches 94 dB SPL	LIFE INLIER WALLE WHILE	N N	

MALLEFE



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	NIET NIN WITE	
- TEN	SPL (dB)	Vmax (mV)	Criterion request(mV)
Left side	** at at at	O LIER MALIER MALIE MALIE W	Free Aug - Miles
Right side	antite militarity and military	L A 15 S	Et allet outer.

6.3.5	Measuring result (SPL) (Part 1, 6.4) (Bluetooth mode)				. ₽ .¢
ani a	Measurement No.1	Measurement No.2	Measurement No.3	Measurement No.4	Measurement No.5
Left side	92.29	92.27	92.29	92.25	92.26
Right side	91.72	91.68	91.67	92.68	92.66
Average	Left side: 92.27	AL	Right side: 91.68	The There is	in my

6.3.5	Measuring result (WBCV)	TO THE WALLE WALL NAME	
	SPL (dB)	VwBcv (mV)	Criterion request(mV)
Left side	94	E WHITE WHITE WHITE	≥75
Right side	94	at at the	≥75



Photo Documentation

Model: MO2303



Photo 1



Photo 2



Photo Documentation



Photo 3



Photo 4



Photo 5

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