

TEST REPORT

| Reference No | : | WTF22X09198460Y |
|------------------------|--------------------|---|
| Applicant | ÷ | Mid Ocean Brands B.V |
| Address | : | 7/F., Kings Tower, 111 King Lam Street, Cheung Sha Wan, Kowloon, Hong Kong |
| Manufacturer | 5 | 118102 |
| Address | , ster | Amerit which with the start start start start |
| Product Name | ÷ | TWS earbuds with charging box |
| Model No | : < | MO6862 |
| Test specification | vun unit ret | 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 | 2 | 2022-11-10 |
| Date of Test | * . | 2022-11-10 to 2022-11-14 |
| Date of Issue | : 1 | 2022-11-15 |
| Test Report Form No | :/ | WTX_EN50332_2_2013A |
| Test Result | - | Pass of the second s |

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:

kevin re

Kevin Ye

Approved by:

Sur

Harvid Wei



| Test item description | ········· TWS earbuds with charging box |
|-----------------------------|--|
| Trademark | and the set of the set of the set |
| Model and/or type reference | |
| Rating(s) | with which and the set of the state |
| 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: MO6862

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.

1.61



| Test case verdicts | at the state mile while when any and |
|--|---|
| Test case does not apply to the te | st object : N(N/A) |
| Test item does meet the requireme | ent: P(Pass) |
| Test item does not meet the requir | rement: F(Fail) |
| Degree of protection against moist | ture : IPX0 |
| General remarks | we we at at at the set will a |
| The test result presented in this re | port relate only to the object(s) tested. |
| This report shall not be reproduced aboratory. | d, except in full, without the written approval of the Issuing testing |
| The report would be invalid without | t specific stamp for test institute or the authority. t the signatures of reporter and reviewer. ional information appended to the report. table appended to the report. |
| Remark: | and the set set set aller mare some |
| Whether parts of tests for the prod | luct have been subcontracted to other labs: No |
| f Yes, list the related test items ar Test items: | nd lab information: |
| Lab information: | |



| te m | A A A A | EN 50332-2: 2013 | an an |
|--------|--------------------|------------------|---------|
| Clause | Requirement – Test | Result - Remark | Verdict |

| 4 | Basic conditions for specifications and measurements | |
|------------------|--|---|
| 4.1 | General description | |
| er vinit | The sound pressure level produced by headphones or earphones can be measured by subjective methods or by objective methods. | at and the Pick |
| WALTER | The reference method for evaluating the sound pressured level emitted by earphones is a psycho acoustic method known as "equal loudness" (EN60268-7) | AND |
| 4.2 | Measuring principle | Р |
| 160 JUN 4 JUN | The standard is based on the use of a Head and Torso Simulator (HATS) in accordance with IEC 60318-7 | P P |
| 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 |
|---------|---|-------------------------------|-------------------|
| 5.1 | Maximum output voltage Vm | white white white white of | N |
| 5.2 | Method of measurement and conditions | a at at at at | N |
| 5.2.1 | Input signal | which which are all | N |
| white . | Actual musical signals are continuously fluctuating in both amplitude and spectral contents and thus cannot be used as test signals | White white white | N |
| er vi | The test signal must therefore be a stationary wide-band signal, the spectral content of which is representative of the musical signals. | and which want when a | 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 source source source source | N |
| 5.2.2 | Operating conditions | miles while while while a | N -m |
| St. S | - By a established power supply | at the left of | 5 ⁴⁵ N |
| | - tolerance of nominal supply voltage | the me me me | Ň |
| white | - All controls are adjusted to maximum sound pressure level | set while while while while | Ň |
| NUTE | - load of player output | - let let let site | Ň |



| EN 50332-2: 2013 | | | |
|---------------------------|--|------------------------|----------------|
| Clause Requirement – Test | | Result - Remark | Verdict |
| 5.2.3 | Method of measurement for analogue audio outputs | - ret stet stret | N |
| NITEK WAY | The measuring equipment shall conform to: - EN 61672-1, class 1 for (sound level meters); - EN61260, class 1 for (1/3 octave analysers). | when while white a | State N N |
| 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 white white whi | N |
| 5.2.4 | Method of measurement for digital audio outputs | et wiret white white | JON JON |
| Whitek w | The maximum output level Lm shall be defined as average of digital signal, using an averaging time of 30 s or more. | whitet whitet whitet | WITTER WITT N |
| the whit | The digital input test signal is defined in EN 50332-1 as -10 dBFS. | NITER WALTER WAITER WA | N _N |

| 6 | Headphone/Earphone characteristics and method | phone/Earphone characteristics and methods of measurement | |
|----------|--|---|--------------------|
| 6.1 | Measuring equipment | White white white wh | S P |
| Milet W | The measuring equipment shall be in accordance with EN 61672-1when connected with a HATS microphone. | at a white white | P St |
| 6.2 | Simulated programme signal characteristic voltage | the worth wonth worth | Р |
| 6.3 | Method of measurement arrangement and conditions | et whilet whilet while w | Р |
| 6.3.1 | Input signal | . Tet with milet and | Р |
| inet wh | - is program simulation noise as defined in HD 483.1 S2 | soft with a state with | P.S.P. |
| 1 1 | - according part 1, subclause 5.1 | the set of | P⊘ |
| 6.3.2 | Source impedance of analogue input devices | ACT WALTER WALT WALL & | Р |
| . Ster | - output impedance of the test signal source | + at set set | P |
| 6.3.3 | Acoustical measurement method | me. m. m. m. | Р |
| 6.3.4 | Headphones / earphones fit | stret suret and and | 90 ¹² P |
| irek whi | - Position correctly for measuring maximum sound pressure | set with with whith | P S |
| + 10 | - the manufacturer's instruction for correct use | w w t | et Pat |
| 6.3.5 | Measure of evaluation | Set Maile Maile Maile M | P |
| Set | - part 1, subclause 6.4 | that the is | P |



| EN 50332-2: 2013 | | | | |
|------------------|--|--------------|-----|--|
| Clause | se Requirement – Test Result - Remark | | | |
| đ | - sound pressure level reaches 94 dB SPL | the star wat | N/A | |

| 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 | Р |
| A.1.2 | Circum-aural, Supra-aural and Supra-concha listening devices | N ^P |
| A.1.3 | Intra-concha listening devices | P |
| A.1.4 | Insert type listening devices | P |
| A.2 | Measurement and Analysis(General) | s P |
| A.3 | Corded analogue listening device | |
| A.4 | Corded digital listening device | |
| A.5 | Cordless digital listening device | |
| A.6 | Listening device with multiple operating modes | N/A |

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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 | s at the | LIEV MULTER WALTER WALTER W | ere our our |
| Right side | white white the solution | 2 x 1- 15 1 | et Jet -Jet |

| 6.3.5 | Measuring result (SPL) (Part 1, 6.4) | | | | с "Р "ć |
|------------|--------------------------------------|---------------------|---------------------|---------------------|---------------------|
| n m | Measurement No.1 | Measurement No.2 | Measurement No.3 | Measurement No.4 | Measurement No.5 |
| Left side | 72.88 | 72.88 | 72.89 | 72.93 | 72.93 |
| Right side | 70.24 | 70.23 | 70.18 | 70.20 | 70.20 |
| Average | Left side: 72.90 | | Right side: 70.21 | | u nu n |

| 6.3.5 | Measuring result (WBCV) | ALTER MATE MATE PART | |
|------------|-------------------------|----------------------|-----------------------|
| | SPL (dB) | Vwbcv (mV) | Criterion request(mV) |
| Left side | 94 | E white white white | ≥75 |
| Right side | 94 | A 17- 18 | ≥75 |

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Photo Documentation Model: MO6862



Photo 1

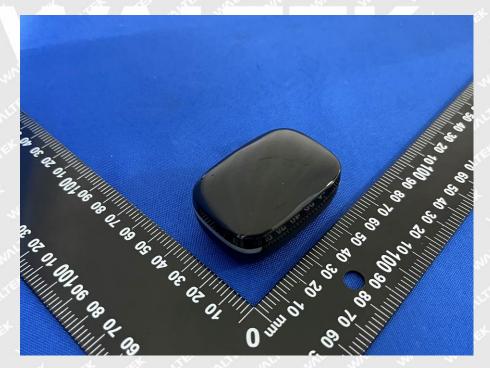


Photo 2

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Nei

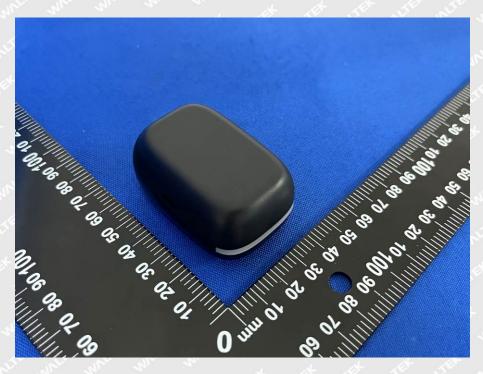


Photo 3



Photo 4

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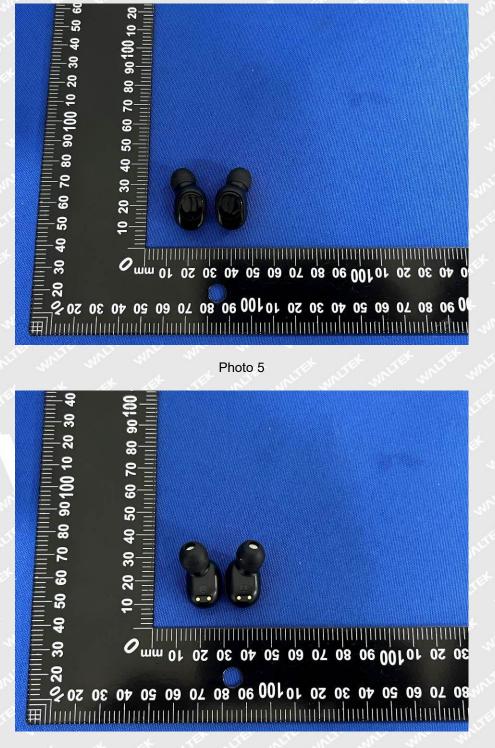


Photo 6

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Photo 6

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