Shenzhen AOCE Electronic Technology Service Co., Ltd.Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District,<br/>Shenzhen, Guangdong, ChinaTel: (86)755-85277785Fax: (86)755-23705230Http://www.aoc-cert.comEmail: postmaster@aoc-cert.com

Report No.: AOC250324112R

## **TEST REPORT**

Client company : SHENZHEN LQC DIGITAL TECHNOLOGY CO, LTD.

Client address NO.5-6, LIJINCHENG INDUSTRY PARK, BANTIAN STREET, LONGGANG DISTRICT, SHENZHEN, CHINA.

Manufacturer : SHENZHEN LQC DIGITAL TECHNOLOGY CO, LTD.

Address NO.5-6, LIJINCHENG INDUSTRY PARK, BANTIAN STREET, LONGGANG DISTRICT, SHENZHEN, CHINA.

Report on the submitted samples said to be:

Sample Name	:	earphones
Trade Mark	:	N/A
Style/ Item No.	:	RCY-TC-EAR, RCY-35-EAR, CL-35ear, CL-TCEAR, CL-lightingear
Sample Receiving Date	:	March 20, 2025
Testing Period	:	March 20, 2025 ~ March 27, 2025
Results	:	Please refer to next page(s).

Summary of Test Results:

#### TEST REQUEST

#### CONCLUSION

POSITIVE

A RoHS Directive (EU) 2017/2102 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of AOCE

Written By:

Sunny Su

Approved by:

Alice zhou

Sunny Su File administrators

Alice Zhou Manager

#### Report No.: AOC250324112R

#### **Results:**

#### A. EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq.	Tested Part(s)	Results						
No.	Testeu Fart(s)	Pb	Cd	Hg	Cr	Br		
1	White plastic enclosure	BL	BL	BL	BL	BL		
2	White rubber enclosure	BL	BL	BL	BL	BL		
3	White key	BL	BL	BL	BL	BL		
4	White plastic wire	BL	BL	BL	BL	BL		
5	White plastic(plug)	BL	BL	BL	BL	BL		
6	Silver metal(plug)	BL	BL	BL	BL	BL		
7	Chips of resistance	BL	BL	BL	BL	BL		
8	Chips of capacitance	BL	BL	BL	BL	BL		
9	РСВ	BL	BL	BL	BL	BL		
10	Solder on PCB	BL	BL	BL	BL	BL		

\*\*\*\*\*

Report No.: AOC250324112R

Note:

\*

- -- = Not Conducted
  - Screening by XRF and detected by chemical method. The test results of chemical method please refer to next pages.
- i Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤70-3σ <x &lt;130+3σ≤OL</x 	BL≤50-3σ <x &lt;150+3σ≤OL</x 
Pb	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ<Χ <1300+3σ≤OL	BL≤500-3σ <x &lt;1500+3σ≤OL</x 
Hg	mg/kg	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤700-3σ <x &lt;1300+3σ≤OL</x 	BL≤500-3σ <x &lt;1500+3σ≤OL</x 
Cr	mg/kg	BL≤700-3σ<Χ	BL≤700-3σ<Χ	BL≤500-3σ<Χ
Br	mg/kg	BL≤300-3σ<Χ		BL≤250-3σ<Χ

\*\*\*\*\*

Shenzhen AOCE Electronic Technology Service Co., Ltd.Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District,<br/>Shenzhen, Guangdong, China<br/>Tel: (86)755-85277785Tel: (86)755-85277785Fax: (86)755-23705230<br/>Email: postmaster@aoc-cert.com

Report No.: AOC250324112R

Note:

w Limit

- OL = Over Limit
- X = Inconclusive
- ii The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- iii The maximum permissible limit is quoted from the document 2005/618/EC amending RoHS directive 2011/65/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000
Bis(2-ethylhexyl) phthalate(DEHP)	1000
Butyl benzyl phthalate(BBP)	1000
Dibutyl phthalate(DBP)	1000
Diisobutyl phthalate(DIBP)	1000

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.

\*\*\*\*\*\*

Shenzhen AOCE Electronic Technology Service Co., Ltd.Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District,<br/>Shenzhen, Guangdong, China<br/>Tel: (86)755-85277785Tel: (86)755-85277785Fax: (86)755-23705230Http://www.aoc-cert.comEmail: postmaster@aoc-cert.com

Report No.:AOC250324112R

#### B. The Test Results of Chemical Method:

Test method:

Lead & Cadmium Content: With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

Mercury Content: With reference to IEC 62321-4:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES)

Hexavalent Chromium Content: With reference to IEC 62321-7-1:2013, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content: With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

Phthalates Content: With reference to IEC 62321-8:2017, by gas chromatography-mass spectrometry (GC-MS)

#### 1) The test results of Lead (Pb)

Itom	Unit	MDL	Res	ults	l insit	
Item			(1)	(2)	Limit	
Lead Content (Pb)	mg/kg	2	38	21	1000 mg/kg	
Conclusion	1	1	Pass	Pass	/	

Report No.:AOC250324112R

#### 2) The test results of PBBs & PBDEs

140.00	11		Res	1 : :4		
Item	Unit	MDL	1	2	– Limit	
Polybrominated Biphenyls (PBBs)						
Monobromobiphenyl	mg/kg	5	N.D.	N.D.		
Dibromobiphenyl	mg/kg	5	N.D.	N.D.		
Tribromobiphenyl	mg/kg	5	N.D.	N.D.		
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.		
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.		
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.		
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.		
Octabromobiphenyl	mg/kg	5	N.D.	N.D.		
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.		
Decabromodiphenyl	mg/kg	5	N.D.	N.D.		
Total content	mg/kg	1	N.D.	N.D.	1000 mg/kg	
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)						
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.		
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.		
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.		
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.		
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.		
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.		
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.		
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.		
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.		
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.		
Total content	mg/kg	1	N.D.	N.D.	1000 mg/kg	

\*\*\*\*\*

# Shenzhen AOCE Electronic Technology Service Co., Ltd.Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District,<br/>Shenzhen, Guangdong, ChinaTel: (86)755-85277785Fax: (86)755-23705230Http://www.aoc-cert.comEmail: postmaster@aoc-cert.com

#### Report No.: AOC250324112R

Item	Unit	MDL	Results					Limit
item			(1)	(2)	(3)	(4)	(5)	Linin
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

Itom	Unit	MDL	Results					Limit
Item	Unit		(6)	(7)	(8)	(9)	(10)	LIMIL
Dibuyl Phthalate(DBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg
Diispbutyl phthalate(DIBP)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	1000 mg/kg

\*\*\*\*\*\*

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Photo appendix is included.

\*\*\*\*\*\*\*\*\*\*

Shenzhen AOCE Electronic Technology Service Co., Ltd.Room 202, 2nd Floor, No.12th Building of Xinhe Tongfuyu Industrial Park, Fuhai Street, Baoan District,<br/>Shenzhen, Guangdong, China<br/>Tel: (86)755-85277785Tel: (86)755-85277785Fax: (86)755-23705230Http://www.aoc-cert.comEmail: postmaster@aoc-cert.com

Report No.:AOC250324112R

### Appendix

Photograph of Sample



Fig.1



Fig.2

AOCE authenticate the photo on original report only

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* End of Report \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*