

TEST REPORT

Applicant : DongGuan Kemi Electronics Technology Co., Ltd

Address Room 201, Floor 2, Building 4, Taixing Science Park, No.3, Taixing Road,

Shigu, Tangxia Town, Dongguan city, China

Report on the submitted samples said to be:

Sample Name(s) : Bluetooth headset

Trade Mark : N/A

Tested Model No. : X16

Sample Received Date : June 18, 2024

Testing Period : **June 18, 2024** ~ **June 25, 2024**

Date of Report : June 26, 2024

Testing Location : 901, No.40 Building, Xialang Industrial Zone, Heshuikou Community,

Matian Street, Guangming District, Shenzhen, Guangdong, China

Results : Please refer to next page(s).

TEST REQUEST	CONCLUSION
As specified by client, based on the performed tests on submitted sample, the result of	
Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs,	
Dibutyl Phthalate(DBP), Butylbenzyl Phthalate(BBP), Di-2-ethylhexyl	PASS
Phthalate(DEHP) and Diisobutyl phthalate(DIBP) content comply with the limits set by	- 113
RoHS Directive 2011/65/EU with amendment (EU) 2015/863.	TiH检测版73

Signed for and on behalf of LCS

Report No.: LCSA03284015R

Terry Luo



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

Test method: Refer to IEC 62321-1:2013&IEC 62321-2:2021&IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF).

Test result(s):

Sample No.	Sample Description	Screening Result(s)						Date of sample
		Cd	Pb	Hg	Cr▼	Br▼		submission/
		Cu	10	nig		PBBs	PBDEs	Resubmission
1	Black soft plastic	BL	BL	BL	BL	BL	BL	2024-06-18
2	Grey soft plastic	BL	BL	BL	BL	BL	BL	2024-06-18
3	Gold metal needle	BL	BL	BL	BL	/	AST LCS	2024-06-18
4	Silver sheet metal	BL	BL	BL	BL	/	1	2024-06-18
5	Silver sheet metal	BL	BL	BL	BL	/	/	2024-06-18
6	Black plastic sheet	BL	BL	BL	BL	BL	BL	2024-06-18
7	Silver metal shrapnel	BL	BL	BL	BL	/	/	2024-06-18
8	Black plastic sheet	BL	BL	BL	BL	BL	BL	2024-06-18
9	Silver sheet metal	BL	BL	BL	BL	/	/	2024-06-18
10	White Gel	BL	BL	BL	BL	BL	BL	2024-06-18
11	Silver wire	BL	BL	BL	BL	m BG (A)	/	2024-06-18
12	Off white plastic sheet	BL	BL	BL	BL	BL	BL	2024-06-18
13	Green metal wire	BL	BL	BL	BL	/	/	2024-06-18
14	Blue wire	BL	BL	BL	BL	/	/	2024-06-18
15	Gold wire	BL	BL	BL	BL	/	/	2024-06-18
16	Red wire	BL	BL	BL	BL	/	/	2024-06-18
17	Tin solder	BL	BL	BL	BL	/	/	2024-06-18
18	PCB board	BL	BL	BL	BL	BL	BL	2024-06-18
19	Silver metal shell	BL	BL	BL	BL	/	/	2024-06-18
20	Black plastic ring	BL	BL	BL	BL	BL	BL	2024-06-18
21	Copper colored metal wire	BL	BL	BL	BL	/	AST ICST	2024-06-18
22	Silver sheet metal	BL	BL	BL	BL	/	1	2024-06-18
23	Black plastic wire sheath	BL	BL	BL	BL	BL	BL	2024-06-18
24	Black soft plastic	BL	BL	BL	BL	BL	BL	2024-06-18
25	White plastic sheet	BL	BL	BL	BL	BL	BL	2024-06-18
26	Silver sheet metal	BL	BL	BL	BL	/	/	2024-06-18
27	Silver magnet	BL	BL	BL	BL	/	/	2024-06-18
28	Gold metal needle	BL	BL	BL	BL	/	/	2024-06-18

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Note:

1. 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(Unit: mg/kg).

Element	Polymers	Metals	Composite material	
Cd	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>BL≤(70-3σ)<x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<></td></x<(130+3σ)≤ol<>	BL≤(70-3σ) <x<(130+3σ)≤ol< td=""><td>LOD<x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<></td></x<(130+3σ)≤ol<>	LOD <x<(150+3σ)≤ol< td=""></x<(150+3σ)≤ol<>	
Pb	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>	
Hg	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(700-3σ)<x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(700-3σ) <x<(1300+3σ)≤ol< td=""><td>BL≤(500-3σ)<x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<></td></x<(1300+3σ)≤ol<>	BL≤(500-3σ) <x<(1500+3σ)≤ol< td=""></x<(1500+3σ)≤ol<>	
Cr	BL≤(700-3σ) <x< td=""><td>BL≤(700-3σ)<x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<></td></x<>	BL≤(700-3σ) <x< td=""><td>BL≤(500-3σ)<x< td=""></x<></td></x<>	BL≤(500-3σ) <x< td=""></x<>	
Br	BL≤(300-3σ) <x< td=""><td>N/A</td><td>BL≤(250-3σ)<x< td=""></x<></td></x<>	N/A	BL≤(250-3σ) <x< td=""></x<>	

Remark:

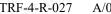
- BL= Below Limit
- OL= Over Limit
- X= The range of needing to do further testing
- 3σ = The reproducibility of analytical instruments
- N/A= Not applicable
- LOD= Detection limit
- 2. The XRF screening test for RoHS elements The reading may be different to the actual content in the sample be of non-uniformity composition.
- 3. The maximum permissible limit is quoted from the document RoHS Directive 2011/65/EU with amendment (EU) 2015/863.
- 4. ▼=For restricted substances PBBs and PBDEs, the results show the total Br content, the restricted substance was Cr(VI), and the results showed the total Cr content.







Report No.: LCSA03284015R





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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
Dibutyl Phthalate(DBP)	1000
Butylbenzyl Phthalate(BBP)	1000 Thing Lab
Di-(2-ethylhexyl) Phthalate(DEHP)	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.

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B. EU RoHS Directive 2011/65/EU with amendment (EU) 2015/863 on DBP, BBP, DEHP & DIBP content

Test method:

Phthalates(DBP, BBP, DEHP &DIBP) Content:

Refer to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatography-mass spectrometer (GC-MS).

Test result(s):

1) Phthalates(DBP, BBP, DEHP &DIBP)

Tested Item(s)	MDL (mg/kg)	Test R (mg	Limit	
resteu riem(s)		1	2	(mg/kg)
Dibutyl Phthalate(DBP) Content	50	N.D.	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	N.D.	1000

Tested Item(s)	MDL	Test Result(s) (mg/kg)	Limit
LCS Testinos Tested Telm(3)	(mg/kg)	6+8+10+12+18+20	(mg/kg)
Dibutyl Phthalate(DBP) Content	50	N.D.	1000
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000

Tested Item(s)	MDL	Test Result(s) (mg/kg)	Limit	
Tinking Lab	(mg/kg)	23+24+25	(mg/kg)	
Dibutyl Phthalate(DBP) Content	50	N.D.	1000	
Butylbenzyl Phthalate(BBP) Content	50	N.D.	1000	
Di-(2-ethylhexyl) Phthalate(DEHP) Content	50	N.D.	1000	
Diisobutyl phthalate(DIBP) Content	50	N.D.	1000	



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Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg= milligram per kilogram=ppm
- According to customer's requirement, only the appointed materials have been tested.

上ST 立语检测度的

北京立语校测股份

NSI 立语检测股份 LCS Testing Lab

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LEST THE LOST LAB

上CS Testing Lab

区工活检测股份 LCS Testing Lab

15年 立讯检测股份 LCS Testing Lab

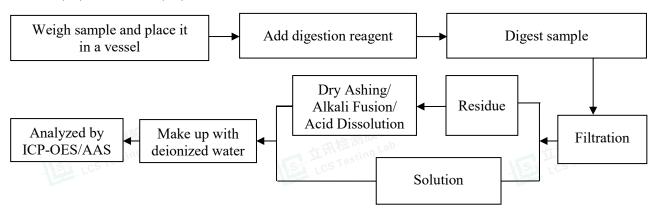




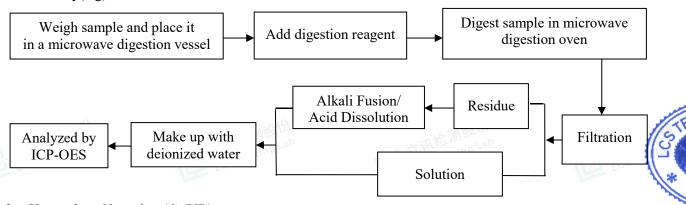


Test Process

1. Lead(Pb) & Cadmium(Cd): IEC 62321-5:2013

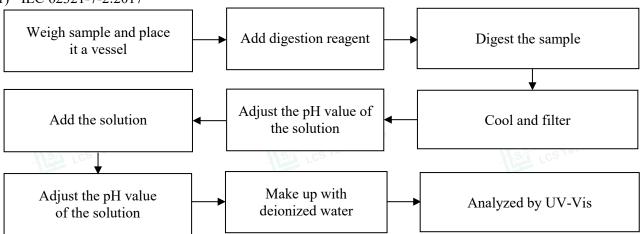


2. Mercury(Hg): IEC 62321-4:2013+AMD1:2017 CSV

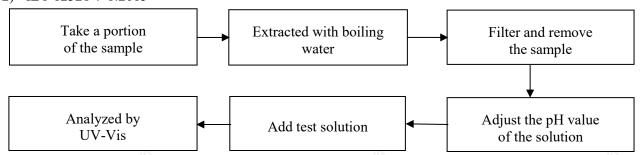


3. Hexavalent Chromium(Cr(VI))

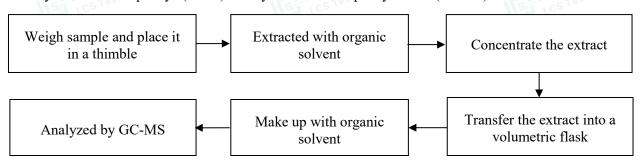
1) IEC 62321-7-2:2017



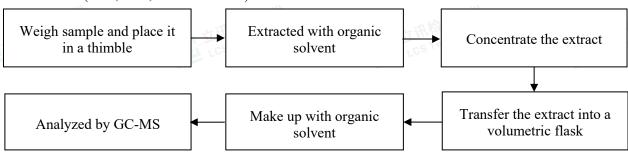




4. Polybrominated Biphenyls(PBBs) & Polybrominated Diphenyl Ethers(PBDEs): IEC 62321-6:2015



5. Phthalates(DBP, BBP, DEHP & DIBP): IEC 62321-8:2017



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The photo(s) of the sample



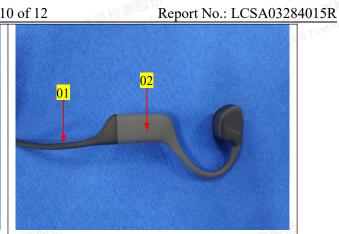


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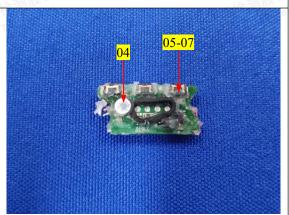


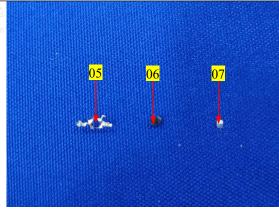


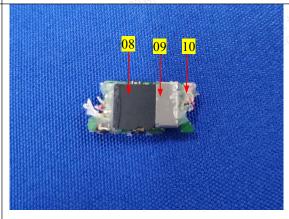


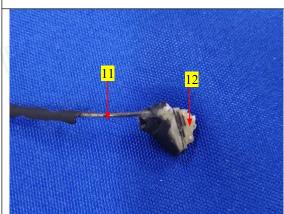


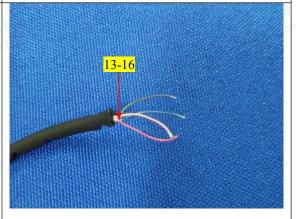














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*** End of Report ***



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