

Report No.: ELE2505C09749 Date: Jun. 12, 2025 Page No.: 1 of 13

Applicant: Shenzhen BAOWODA Technology Co., Ltd.

Floor 3, Building 9, Nanyu Industrial Park, Langkou Community, Dalang Street, Longhua

Address:

District, Shenzhen 518109 Guangdong P.R.China

The following sample was submitted and identified by/on behalf of the client as:

Product Name: Combined Gas & Carbon Monoxide Alarm

Model No.: CG01

Trade Mark: CHZHVAN

Manufacturer: Shenzhen BAOWODA Technology Co., Ltd.

Address: Floor 3, Building 9, NanyuIndustrial Park, Langkou CommunityDalang Street,

Longhua District, Shenzhen Guangdong P.R.

Sample Received Date: 2025.5.29; 2025.6.10

Testing Period: 2025.5.29—2025.6.6;

2025.6.10-2025.6.12

Test Method: Please refer to the following page(s).

Test Result(s): Please refer to the following page(s).

Test Requested Result

As specified by client, according to RoHS Directive 2011/65/EU with amendment (EU)

2015/863, to test Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr

Pass

(VI)), Polybrominated Biphenyls (PBB), Polybrominated Diphenyl Ethers (PBDE),

Phthalates (DBP, BBP, DEHP, DIBP) in the tested materials of the submitted sample(s).

Signed for and on behalf of

Shenzhen Element Testing Co., Ltd.

Noel Yin

Technical Manager



Report No.: ELE2505C09749 Date: Jun. 12, 2025 Page No.: 2 of 13

Tested Result:

1. Screening Result

With reference to IEC 62321-3-1:2013, by XRF

				Re	sults		KA	Date of sample
Spec. No.	Specimen Description:	Pb	Cd	Hg	Cr [▼]	В	r	submission
1101		FB	Cu	118	Ci	PBB	PBDE	/Resubmission
1	Black plastic	BL	BL	BL	BL	BL	BL	2025-06-03
2	Black plastic	BL	BL	BL	BL	BL	BL	2025-06-03
3	Silvery metal	BL	BL	BL	BL	NA	NA	2025-06-03
4	Silvery metal screw	BL	BL	BL	х	NA	NA	2025-06-03 2025-06-06
5	Silvery adhesive plastic with black printing	BL	BL	BL	BL	BL	BL	2025-06-03
6	Silvery metal	BL	BL	BL	BL	NA	NA	2025-06-03
7	Black plastic	BL	BL	BL	BL	BL	BL	2025-06-03
8	Golden metal	BL	BL	BL	BL	NA	NA	2025-06-03
9	Silvery metal	BL	BL	BL	BL	NA	NA	2025-06-03
10	Black plastic jacket	BL	BL	BL	BL	BL	BL	2025-06-03
11	Red plastic jacket	BL	BL	BL	BL	BL	BL	2025-06-03
12	Silvery metal wire core	BL	BL	BL	BL	NA	NA	2025-06-03
13	White plastic	BL	BL	BL	BL	BL	BL	2025-06-03
14	White plastic	BL	BL	BL	BL	BL	BL	2025-06-03
15	Silvery metal	BL	BL	BL	BL	NA	NA	2025-06-03
16	Silvery metal	BL	BL	BL	BL	NA	NA	2025-06-03
17	Coppery metal	BL	BL	BL	BL	NA	NA	2025-06-03
18	Black ceramic	BL	BL	BL	BL	BL	BL	2025-06-03
19	Black plastic	BL	BL	BL	BL	BL	BL	2025-06-03



Report No.: ELE2505C09749 Date: Jun. 12, 2025 Page No.: 3 of 13

Spec.				~	Date of sample			
No.	Specimen Description:	Pb	Cd	Hg	Cr [▼]	PBB	r [▼] PBDE	submission /Resubmission
20	Silvery metal	BL	BL	BL	BL	NA NA	NA	2025-06-03
21	Black plastic	BL	BL	BL	BL	BL	BL	2025-06-03
22	Black electronic components	BL	BL	BL	BL	BL	BL	2025-06-03
23	Silvery metal	BL	BL	BL	BL	NA	NA	2025-06-03
24	Black paper	BL	BL	BL	BL	BL	BL	2025-06-03
25	Black plastic	BL	BL	BL	BL	BL	BL	2025-06-03
26	Silvery metal	BL	BL	BL	BL	NA	NA	2025-06-03
27	Green plastic	BL	BL	BL	BL	BL	BL	2025-06-03
28	Brown paper	BL	BL	BL	BL	BL	BL	2025-06-03
29	Beige plastic	BL	BL	BL	BL	BL	BL	2025-06-03
30	Black plastic	BL	BL	BL	BL	BL	BL	2025-06-03
31	Silvery metal	BL	BL	BL	BL	NA	NA	2025-06-03
32	Silvery metal	BL	BL	BL	X	NA	NA	2025-06-03 2025-06-06
33	Beige plastic	BL	BL	BL	BL	BL	BL	2025-06-03
34	Black plastic	BL	BL	BL	BL	BL	BL	2025-06-03
35	Black adhesive plastic	BL	BL	BL	BL	BL	BL	2025-06-03
36	Transparent glass with black coating	BL	BL	BL	BL	BL	BL	2025-06-03
37	Black adhesive plastic	BL	BL	BL	BL	BL	BL	2025-06-03
38	Silvery plastic	BL	BL	BL	BL	BL	BL	2025-06-03
39	Silvery plastic	BL	BL	BL	BL	BL	BL	2025-06-03
40	White plastic	BL	BL	BL	BL	BL	BL	2025-06-03



Report No.: ELE2505C09749 Date: Jun. 12, 2025 Page No.: 4 of 13

				Re	sults			Date of sample
Spec.	Specimen Description:	DI-	Cd		. *	Е	Br [▼]	submission
No.	EN EN	Pb		Hg	Cr [▼]	PBB	PBDE	/Resubmission
41	White plastic	BL	BL	BL	BL	BL	BL	2025-06-03
42	Transparent plastic	BL	BL	BL	BL	BL	BL	2025-06-03
43	White plastic	BL	BL	BL	BL	BL	BL	2025-06-03
44	Silvery metal	BL	BL	BL	х	NA	NA	2025-06-03 2025-06-06
45	Yellow FPC	BL	BL	BL	BL	BL	BL	2025-06-03
46	Yellow LED	BL	BL	BL	BL	BL	BL	2025-06-03
47	Blue PCB	BL	BL	BL	BL	BL	BL	2025-06-03
48	Black electronic components	BL	BL	BL	BL	BL	BL	2025-06-03
49	Black electronic components	BL	BL	BL	BL	BL	BL	2025-06-03
50	Blue PCB	BL	BL	BL	BL	X	х	2025-06-03 2025-06-06
51	Black plastic	BL	BL	BL	BL	BL	BL	2025-06-11
52 ³	Silvery metal	OL	BL	BL	BL	NA	NA	2025-06-11 2025-06-12





Report No.: ELE2505C09749 Date: Jun. 12, 2025 Page No.: 5 of 13

2. Test result for Chemical Confirmation

(1) The test results of Lead (Pb)

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

Itaan	Unit MDL Results		Results	Limit	
Item	Onit	IVIDL	52 ³	Limit	
Lead Content (Pb)	mg/kg	2	2.69x10 ⁴	1000	

(2) The test results of Hexavalent Chromium (Cr(VI))

With reference to IEC 62321-7-1:2015, by visible spectrophotometer (Vis)

Item	Unit	MDL		Results		Limit
item	OIIII WIDE		4	32	44	Limit
Hexavalent Chromium (Cr (VI)) #	ug/cm ²	0.10	ND	ND	ND	-



Report No.: ELE2505C09749 Date: Jun. 12, 2025 Page No.: 6 of 13

(3) The test results of PBB & PBDE

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

	Item	Unit	MDL	Results	Limit
	item	Unit	IVIDL	50	Limit
Polybrominated Bi	phenyls (PBB)				
Monobromobiphe	ıyl	mg/kg	5	ND	
Dibromobiphenyl		mg/kg	5	ND	
Tribromobiphenyl		mg/kg	5	ND	
Tetrabromobiphen	yl	mg/kg	5	ND	
Pentabromobipher	nyl	mg/kg	5	ND	
Hexabromobiphen	yl	mg/kg	5	ND	
Heptabromobiphe	nyl	mg/kg	5	ND	
Octabromobipheny	И	mg/kg	5	ND	
Nonabromodiphen	yl	mg/kg	5	ND	
Decabromodiphen	yl	mg/kg	5	ND	
Total content	K	mg/kg	1	ND	1000
Polybrominated Di	iphenyl Ethers (PBDE)				
Monobromodiphe	nyl ether	mg/kg	5	ND	
Dibromodiphenyl e	ether	mg/kg	5	ND	
Tribromodiphenyl e	ether	mg/kg	5	ND	
Tetrabromodiphen	yl ether	mg/kg	5	ND	
Pentabromodipher	nyl ether	mg/kg	5	ND	
Hexabromodiphen	yl ether	mg/kg	5	ND	
Heptabromodiphe	nyl ether	mg/kg	5	ND	
Octabromodipheny	yl ether	mg/kg	5	ND	
Nonabromodiphen	yl ether	mg/kg	5	ND	KA
Decabromodiphen	yl ether	mg/kg	5	ND	The state of the s
Total content		mg/kg	/	ND	1000



Report No.: ELE2505C09749 Date: Jun. 12, 2025 Page No.: 7 of 13

(4) The test results of DBP, BBP, DEHP and DIBP

With reference to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

	l lesia	MDL	Re	Limit	
item	Item Unit N		1+5+35+37	2+7+13+14+43	Limit
Dibuyl Phthalate (DBP)	mg/kg	250	ND	ND	1000
Benzylbutyl Phthalate (BBP)	mg/kg	250	ND	ND	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	250	ND	ND	1000
Diispbutyl phthalate (DIBP)	mg/kg	250	ND	ND	1000

Item	Unit		Res	Limit	
item	Oilit	MDL	10+11	19	Lillie
Dibuyl Phthalate (DBP)	mg/kg	250	ND	ND	1000
Benzylbutyl Phthalate (BBP)	mg/kg	250	ND	ND	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	250	ND	ND	1000
Diispbutyl phthalate (DIBP)	mg/kg	250	ND	ND	1000

	Unit M	MDI	R	l incit	
Item	Unit	MDL	27	38+39+40+41+42	Limit
Dibuyl Phthalate (DBP)	mg/kg	250	ND ND	ND	1000
Benzylbutyl Phthalate (BBP)	mg/kg	250	ND	ND	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	250	ND	ND	1000
Diispbutyl phthalate (DIBP)	mg/kg	250	ND	ND	1000









Report No.: ELE2505C09749 Date: Jun. 12, 2025 Page No.: 8 of 13

		MDI	Res	Limit	
ltem	Unit MDL		21+24+25+28+29	30+33+34	Limit
Dibuyl Phthalate (DBP)	mg/kg	250	ND	ND	1000
Benzylbutyl Phthalate (BBP)	mg/kg	250	ND	ND	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	250	ND	ND	1000
Diispbutyl phthalate (DIBP)	mg/kg	250	ND	ND	1000

lana.	l lait	MDI	Res	Limit	
Item	Unit MDL		45+46+47+50		51
Dibuyl Phthalate (DBP)	mg/kg	250	ND	ND ND	1000
Benzylbutyl Phthalate (BBP)	mg/kg	250	ND	ND	1000
Bis(2-ethylhexyl) Phthalate (DEHP)	mg/kg	250	ND	ND	1000
Diispbutyl phthalate (DIBP)	mg/kg	250	ND	ND	1000

Note:

(1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), Vis (for Cr (VI)) and GC-MS (for PBB, PBDE) 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	ma/ka	BL≤70-3σ <x< td=""><td>BL≤70-3σ<x< td=""><td colspan="2">LOD 37 (450: 2 - 40)</td></x<></td></x<>	BL≤70-3σ <x< td=""><td colspan="2">LOD 37 (450: 2 - 40)</td></x<>	LOD 37 (450: 2 - 40)	
Cu	mg/kg	<130+3σ≤OL	<130+3σ≤OL	LOD <x<150+3σ≤ol< td=""></x<150+3σ≤ol<>	
DI		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<>	
Pb	mg/kg	<1300+3σ≤OL	<1300+3σ≤OL	<1500+3σ≤OL	
Ha	No a /lea	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<>	
Hg	mg/kg	<1300+3σ≤OL	<1300+3σ≤OL	<1500+3σ≤OL	
Cr	mg/kg	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	mg/kg	BL≤300-3σ <x< td=""><td>NA NA</td><td>BL≤250-3σ<x< td=""></x<></td></x<>	NA NA	BL≤250-3σ <x< td=""></x<>	



Report No.: ELE2505C09749 Date: Jun. 12, 2025 Page No.: 9 of 13

- (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) 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 is required to obtain quantitative data.
- (4) The maximum permissible limit is quoted from the document 2015/863/EC amending RoHS directive 2011/65/EU:
- (5) ▼=For restricted substances PBB and PBDE, the results show the total Br content; The restricted substance was Cr (VI), and the results showed the total Cr content
- (6) BL =Below Limit

LOD = Limits of detection

OL =Over Limit

X =Inconclusive

 3σ = The reproducibility of analytical instruments

NA= Not applicable

MDL = Method Detection Limit

mg/kg = ppm=parts per million

ND=Not Detected (<MDL or LOQ)

- (7) # = a. The sample is positive for Cr (VI) if the Cr (VI) concentration is greater than 0.13ug/cm². The sample coating is considered to contain Cr (VI)
 - b. The sample is negative for Cr (VI) if Cr (VI) is ND (concentration less than 0.10ug/cm²). The sample coating is considered a non- Cr (VI) based coating
 - c. The result between $0.10\mu g/cm^2$ and $0.13\mu g/cm^2$ is considered to be inconclusive, unavoidable coating variations may influence the determination
- (8) Information on storage conditions and production date of the tested samples is unavailable and this Cr (VI) results represent status of the sample at the time of testing
- (9) According to the client's statement,
 - [®]RoHS Exemption: 6(a)-I an alloying element in steel for machining purposes containing up to 0.35 % lead by weight and in galvanized steel containing up to 0.20 % lead by weight.
 - ²RoHS Exemption: 6(b)-II Aluminum alloy for machining purposes containing up to 0.4% lead by weight.
 - [®]RoHS Exemption: 6(c), Copper alloy containing up to 4 % lead by weight.
 - ⁴RoHS Exemption: 7(c)-I, Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g., piezoelectronic devices, or in a glass or ceramic matrix compound
- (10) (R)=Re-submitted sample.
- (11) The test report is only used for the purpose of customer research, teaching, internal quality control, product development and other purposes, and is for internal reference only.
- (12) Only selected materials were tested as per client's requirement.

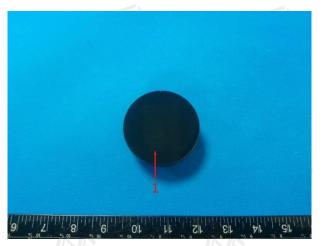


Report No.: ELE2505C09749 Date: Jun. 12, 2025 Page No.: 10 of 13

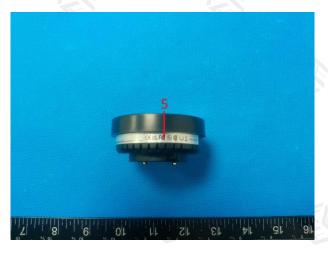
Photo(s) of the sample(s)

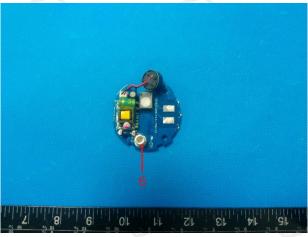








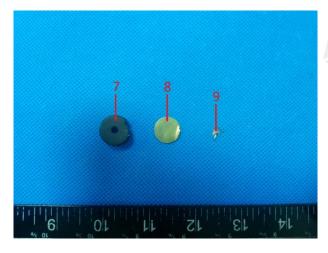


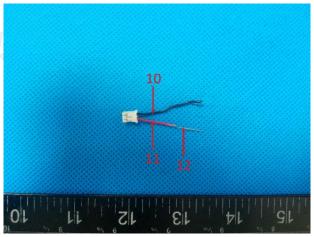


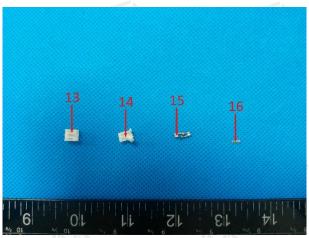


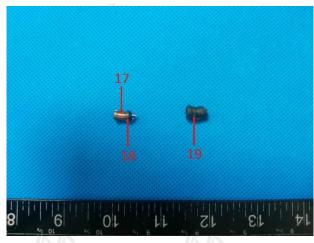
Report No.: ELE2505C09749 Date: Jun. 12, 2025 Page No.: 11 of 13

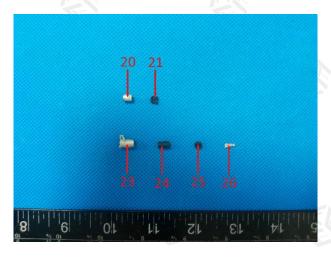
Photo(s) of the sample(s)

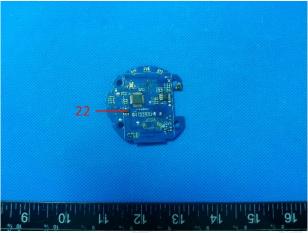








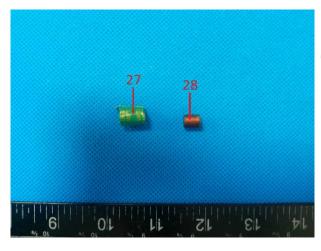


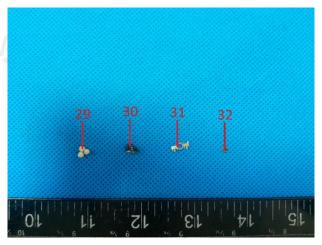


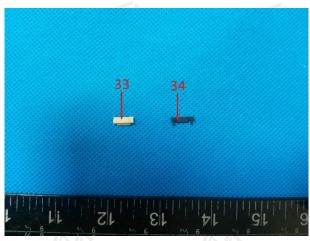


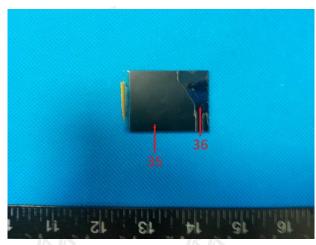
Report No.: ELE2505C09749 Date: Jun. 12, 2025 Page No.: 12 of 13

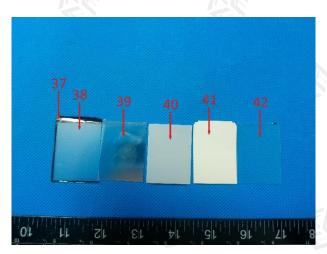
Photo(s) of the sample(s)

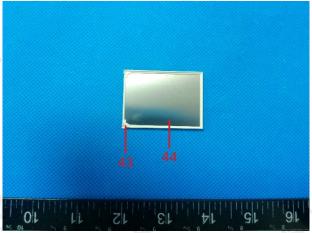








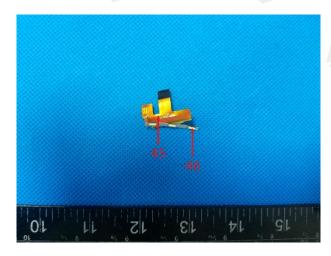


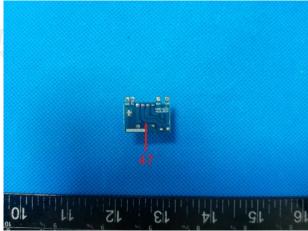


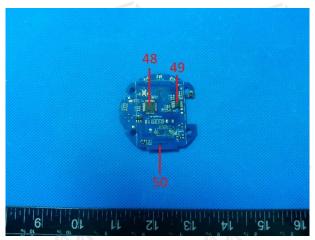


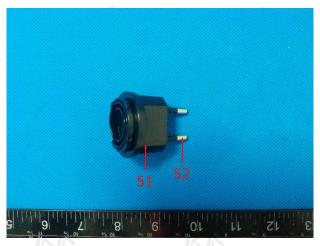
Report No.: ELE2505C09749 Date: Jun. 12, 2025 Page No.: 13 of 13

Photo(s) of the sample(s)









*** End of Report ***

Remark: This report is considered invalidated without the Special Seal of Shenzhen Element Testing Co., Ltd.. This report shall not be altered, increased, or deleted. The results shown in this test report refer only to the sample(s) tested. Without written approval of Shenzhen Element Testing Co., Ltd., this test report shall not be copied except in full and published as advertisement.