



TEST REPORT

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REPORT No.: CTB25022407903C01

Applicant: Foshan Tuboshu Intelligent Technology Co., Ltd
Address: No. 204-2, Bldg. B, Shunde Creative Industry Park, No.41, Fengxiang Road, Xinjiao Community, Daliang Street, Shunde District, Foshan City, Guangdong Province, China

Manufacturer: Foshan Tuboshu Intelligent Technology Co., Ltd
Address: No. 204-2, Bldg. B, Shunde Creative Industry Park, No.41, Fengxiang Road, Xinjiao Community, Daliang Street, Shunde District, Foshan City, Guangdong Province, China

The following samples were submitted and identified on behalf of the clients as:

Sample name: Desktop Fan
Brand: /
Model(s): H6-V8
Sample received date: Feb. 26, 2025
Testing period: Feb. 26, 2025 to Mar. 06, 2025
Test Method: Please refer to next page(s).
Test Result: Please refer to next page(s).

Result Summary :

Test Requested	Conclusion
European Directive 2011/65/EU and amendment (EU) 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment	PASS

Tested By: 	Check By: 	Approve By:  
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Date: Mar. 07, 2025

Test Method:

A. Screening test by XRF spectroscopy

XRF screening limits for regulated elements according to IEC 62321-3-1:2013

Element	Screening limit / mg/kg		MDL	
	Polymers and metals	Composite material	Polymers	Other material
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma)$ $\leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma)$ $\leq OL$	10mg/kg	50mg/kg
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma)$ $\leq OL$	$LOD \leq (50-3\sigma) < X < (150+3\sigma)$ $\leq OL$	10mg/kg	50mg/kg
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma)$ $\leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma)$ $\leq OL$	10mg/kg	50mg/kg
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$	10mg/kg	50mg/kg
Br	$BL \leq (300-3\sigma) < X$ (non-metal only)	$BL \leq (250-3\sigma) < X$	10mg/kg	50mg/kg

B. Chemical Test

Test Item(s)	Test Method	Analysis Equipment(s)	MDL	Limit
Lead (Pb)	IEC 62321-5:2013	ICP-OES	2 mg/kg	1000mg/kg
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	2 mg/kg	100mg/kg
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	2 mg/kg	1000mg/kg
Hexavalent Chromium Cr(VI)	IEC 62321-7-1:2015	UV-VIS	--	1000mg/kg
	IEC 62321-7-2:2017		8 mg/kg	1000mg/kg
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	50mg/kg	1000mg/kg
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	50mg/kg	1000mg/kg
Phthalate	IEC 62321-8:2017	GC-MS	50mg/kg	1000mg/kg

Tested material list

No.	Description	Photo(s) of tested material
1	Silver metal	
2	Silver metal	
3	Silver metal	
4	Silver metal	
5	Silver metal	
6	Silver metal	
7	Silver metal case	
8	Silver metal	
9	Silver metal	
10	Black plated mesh	
11	Black plated metal	
12	Black plastic film	
13	Black foam	
14	Silver plastic	
15	Silver metal shaft	
16	Copper-colored metal	
17	White plastic ring	
18	Green PCB	
19	Soldering tin	
20	Silver plastic button	

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21	Black plastic
22	Black plastic
23	Grey plastic
24	Black plastic
25	Black plastic
26	Black plastic
27	Grey plastic
28	Black plastic wire leather
29	Red plastic wire leather
30	White plastic



Note: test samples were specified by applicant.

Test Result(s):

No.	XRF screening Result					Chemical confirm Result (mg/kg)	Remark	Conclusion
	Pb	Cd	Hg	Cr	Br			
1	BL	BL	BL	BL	NA	---	---	PASS
2	BL	BL	BL	BL	NA	---	---	PASS
3	BL	BL	BL	X	NA	Cr ⁶⁺ : Negative	---	PASS
4	BL	BL	BL	BL	NA	---	---	PASS
5	BL	BL	BL	BL	NA	---	---	PASS
6	BL	BL	BL	BL	NA	---	---	PASS
7	BL	BL	BL	BL	NA	---	---	PASS
8	BL	BL	BL	BL	NA	---	---	PASS
9	BL	BL	BL	BL	NA	---	---	PASS
10	BL	BL	BL	BL	NA	---	---	PASS

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11	BL	BL	BL	BL	NA	---	---	PASS
12	BL	BL	BL	BL	BL	---	---	PASS
13	BL	BL	BL	BL	BL	---	---	PASS
14	BL	BL	BL	BL	X	PBBs: N.D PBDEs: N.D	---	PASS
15	BL	BL	BL	X	NA	Cr ⁶⁺ : Negative	---	PASS
16	BL	BL	BL	BL	NA	---	---	PASS
17	BL	BL	BL	BL	BL	---	---	PASS
18	BL	BL	BL	BL	BL	---	---	PASS
19	BL	BL	BL	BL	NA	---	---	PASS
20	BL	BL	BL	BL	X	PBBs: N.D PBDEs: N.D	---	PASS
21	BL	BL	BL	BL	X	PBBs: N.D PBDEs: N.D	---	PASS
22	BL	BL	BL	BL	X	PBBs: N.D PBDEs: N.D	---	PASS
23	BL	BL	BL	BL	BL	---	---	PASS
24	BL	BL	BL	BL	BL	---	---	PASS
25	BL	BL	BL	BL	X	PBBs: N.D PBDEs: N.D	---	PASS
26	BL	BL	BL	BL	X	PBBs: N.D PBDEs: N.D	---	PASS
27	BL	BL	BL	BL	X	PBBs: N.D PBDEs: N.D	---	PASS
28	BL	BL	BL	BL	BL	---	---	PASS
29	BL	BL	BL	BL	BL	---	---	PASS
30	BL	BL	BL	BL	BL	---	---	PASS

Test Item(s)	Dibutyl Phthalate (DBP) (mg/kg)	Benzylbutyl Phthalate (BBP) (mg/kg)	Bis-(2-ethylhexyl) Phthalate (DEHP) (mg/kg)	Diisobutyl phthalate (DIBP) (mg/kg)	Conclusion
CAS No.	84-74-2	85-68-7	117-81-7	84-69-5	
Limit	1000	1000	1000	1000	
No.	Result (mg/kg)				
12	N.D	N.D	N.D	N.D	PASS

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13	N.D	N.D	N.D	N.D	PASS
14+20+21+22 +23	N.D	N.D	N.D	N.D	PASS
17	N.D	N.D	N.D	N.D	PASS
24	N.D	N.D	N.D	N.D	PASS
25+26	N.D	N.D	N.D	N.D	PASS
27	N.D	N.D	N.D	N.D	PASS
28+29	N.D	N.D	N.D	N.D	PASS
18+30	N.D	N.D	N.D	N.D	PASS

Remark:

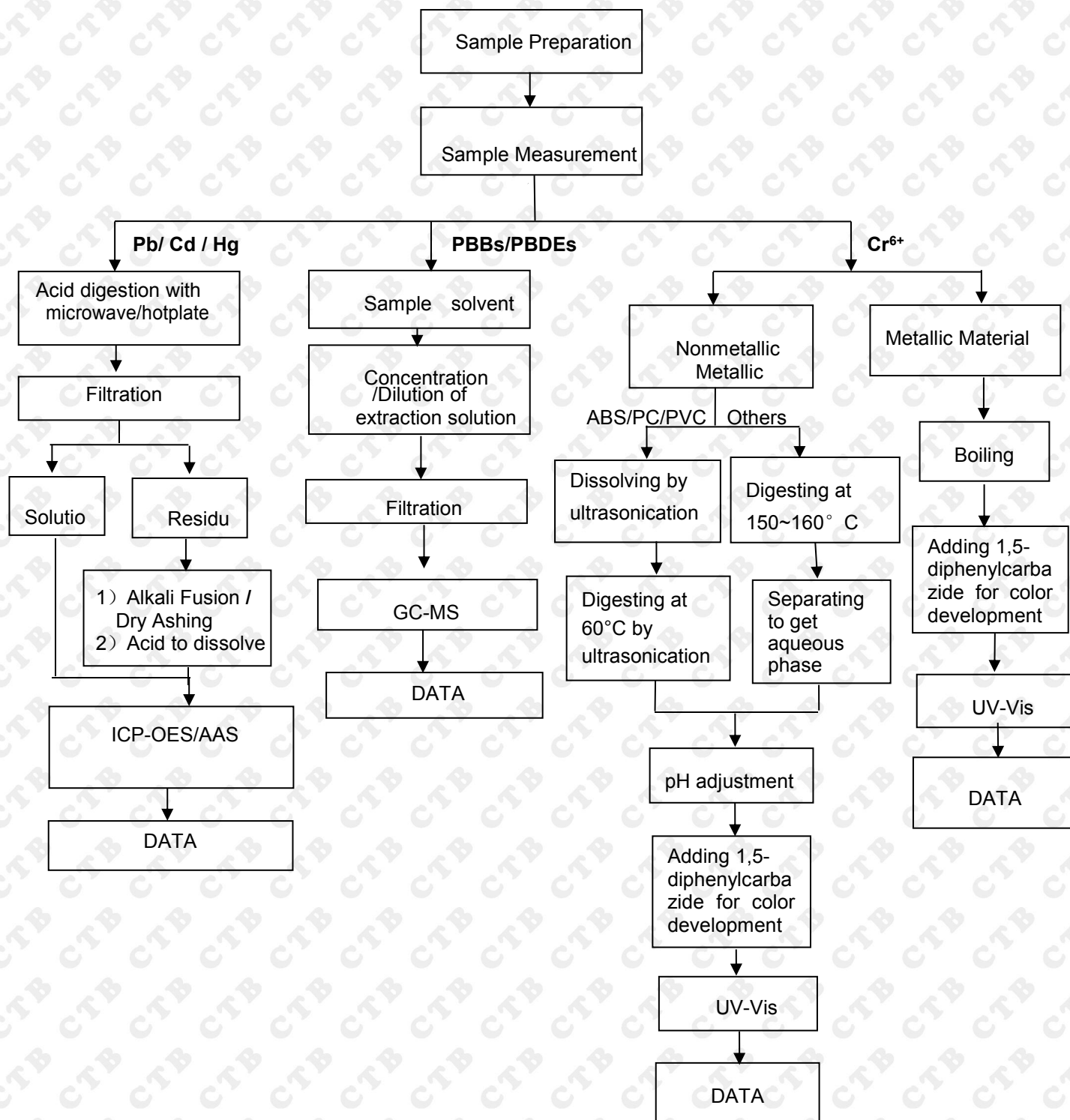
1. BL = below the limit
2. OL = over the limit
3. X = inconclusive, chemical confirm test is needed
4. NA = metal not applicable
5. mg/kg = milligram per kilogram = ppm
6. N.D = not detected
7. Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than $0.1\mu\text{g}/\text{cm}^2$ sample surface area used.
8. Positive = Presence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is equal to or greater than $0.13\mu\text{g}/\text{cm}^2$
9. sample surface area used. The limit for composite test should be divided by the mixed number.

Note:

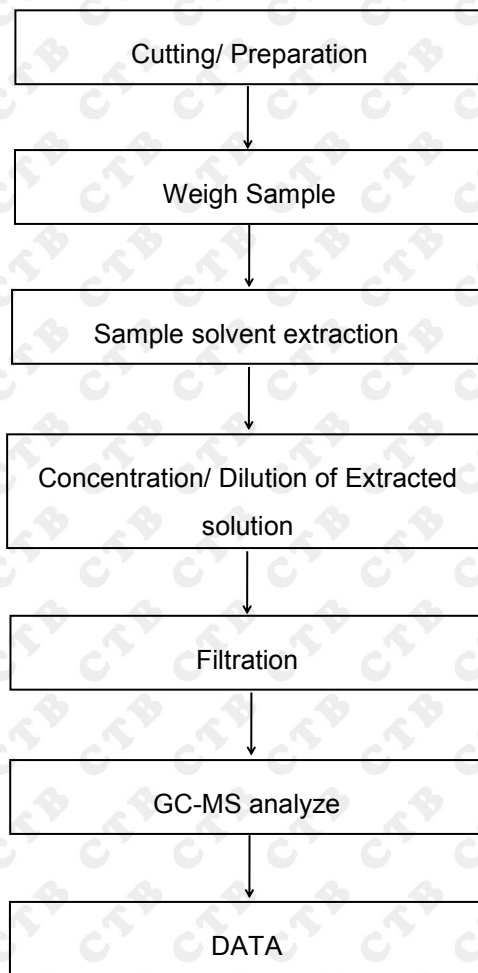
1. When perform screening tests, it is the result on total Br while test item on restricted substances is PBBs/PBDEs, it is the result on total Cr while test item on restricted substances is Cr^{6+} .
2. Pb, Cd, Hg, Cr and Br results are obtained by EDXRF for primary screening, and further chemical testing by ICP-OES (for Cd, Pb, Hg), UV-VIS (for Cr^{6+}) and GC-MS (for PBBs, PBDEs) is needed to be performed, if the concentration falls into the inconclusive area according to IEC 62321-3-1:2013.
3. For the XRF screening test for RoHS elements, the reading may be different to the actual content in the sample be of non-uniformity composition.
4. As requested by the applicant, EU RoHS test was conducted only on components listed in this report. Other components were not tested.

Test flow chart

1. Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs



2. Phthalate test flow chart



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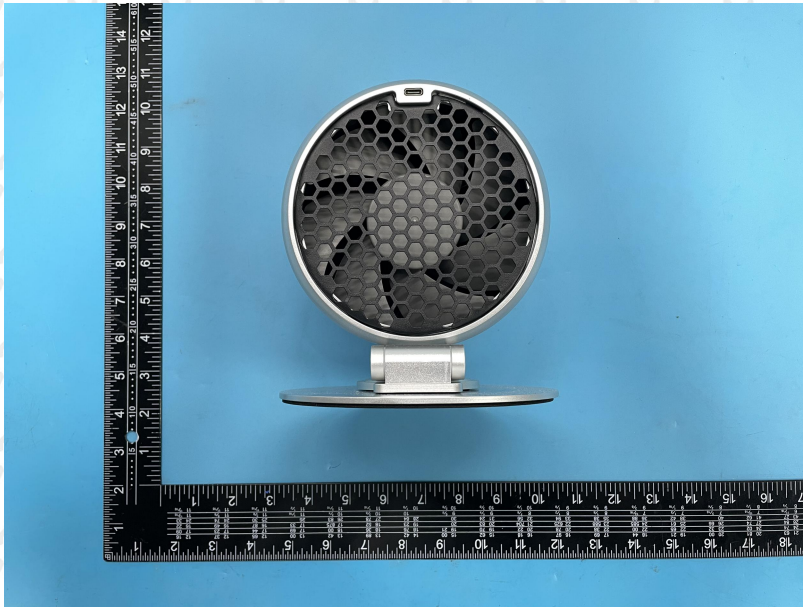
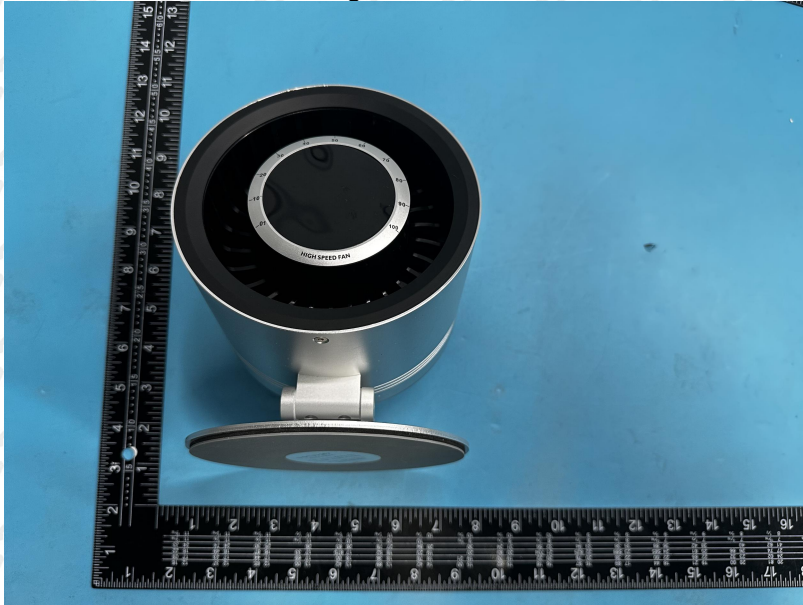
Photo documentation



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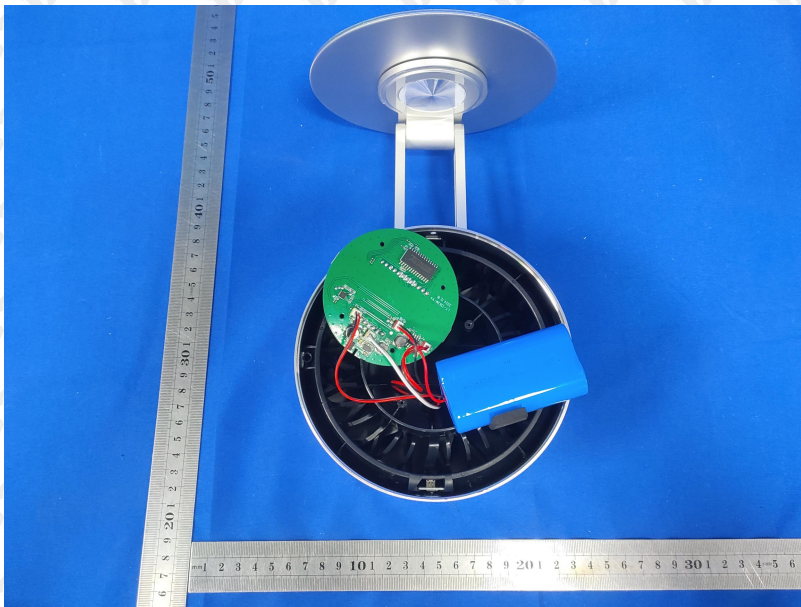
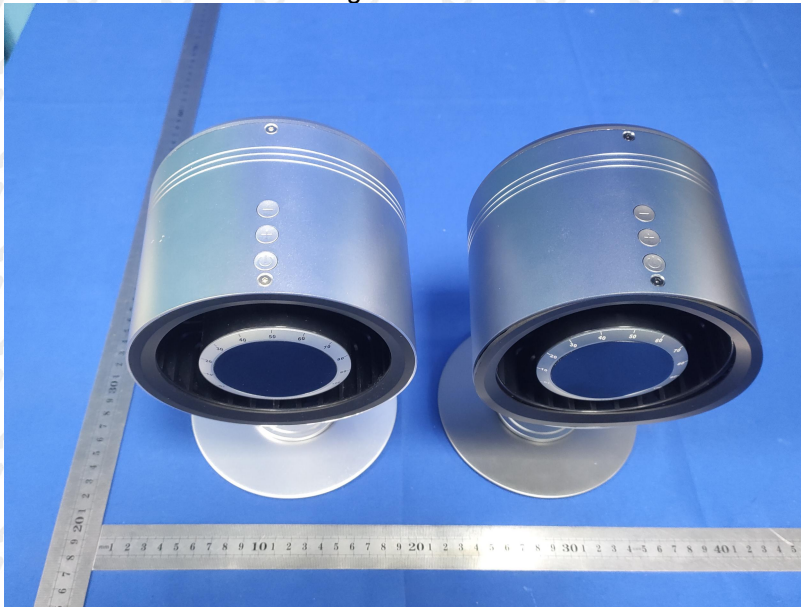
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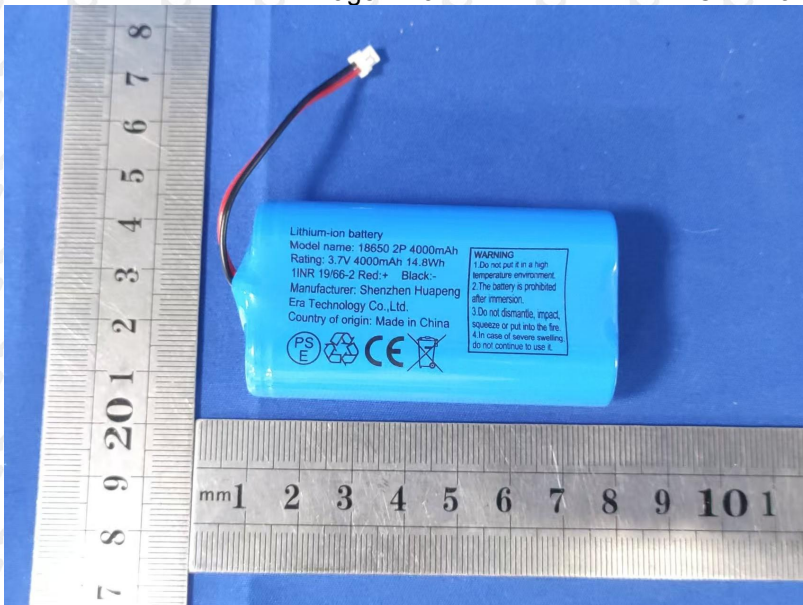
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*** End of Report ***

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