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SHENZHEN SANYEAR ELECTRONICS CO.LTD Applicant:

11TH FLOOR, NANGUANG BUILDING, HUAFU ROAD, FUTIAN DISTRICT, SHENZHEN Address:

SHENZHEN SANYEAR ELECTRONICS CO.LTD Manufacturer:

11TH FLOOR, NANGUANG BUILDING, HUAFU ROAD, FUTIAN DISTRICT, SHENZHEN Address:

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

Sample name: CHIP CAPACITOR

Brand: SANYEAR

Model(s): X5R,X7R,X7S,X7T,COG,Y5V,X6S,X8R

Jun 13,2024 Sample received date:

Jun 13,2024 to Jun 16,2024 Testing period:

"#" indicates the items are not in CNAS accreditation scope.

Test Method: Please refer to next page(s). Test Result: Please refer to next page(s).

Result Summary:

Test Requested	C	63	C	63	6	6	Conclusion
European Directive 2011/65/EU and amendment (EU) 2015/863 on the restriction of the use of						PASS	
certain hazardous substances in electrical and electronic equipment						FASS	

Tested By:

Check By:

Approve By:

Date: Jun 13,2024 Note: If there is any objection to the inspection results in this report, please submit a written report to the company within 15 days from the date of receiving the report. The test report is effective only with both signature and specialized stamp. This result(s) shown in this report refer only to the sample(s) tested. Without written approval of Shenzhen CTB Testing Technology Co., Ltd. this report can't be reproduced except in full. The tested sample(s) and the sample information are provided by the client. "*" indicates the testing items were fulfilled by subcontracted lab.

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Test Method:

A. Screening test by XRF spectroscopy

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

	Screening lim	MDL		
Element	Polymers and metals Composite material		Polymers	Other material
Pb	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x>	10mg/kg	50mg/kg
Cd	BL≤(70-3σ) <x <(130+3σ)<br="">≤OL</x>	LOD≤(50-3σ) <x <(150+3σ)<br="">≤OL</x>	10mg/kg	50mg/kg
Hg	BL≤(700-3σ) <x <(1300+3σ)<br="">≤OL</x>	BL≤(500-3σ) <x <(1500+3σ)<br="">≤OL</x>	10mg/kg	50mg/kg
Cr	BL≤(700-3σ)< X	BL≤(500-3σ)< X	10mg/kg	50mg/kg
Br	BL≤(300-3σ)< X (non-metal only)	BL≤(250-3σ)< X	10mg/kg	50mg/kg

B. Chemical Test

Test Item(s)	Test Method	Analysis Equipment(s)	MDL	Limit 1000mg/kg	
Lead (Pb)	IEC 62321-5:2013	ICP-OES	10mg/kg		
Cadmium (Cd)	IEC 62321-5:2013	ICP-OES	10mg/kg	100mg/kg	
Mercury (Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	10mg/kg	1000mg/kg	
Hexavalent Chromium Cr(VI)	IEC 62321-7-1:2015 & IEC 62321-7-2:2017	UV-VIS	10mg/kg	1000mg/kg	
Polybrominated Biphenyls (PBBs)	IEC 62321-6:2015	GC-MS	10mg/kg	1000mg/kg	
Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-6:2015	GC-MS	10mg/kg	1000mg/kg	
Dibutyl Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg	
Benzylbutyl Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg	
Bis-(2-ethylhexyl)Phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg	
Diisobutyl phthalate	IEC 62321-8:2017	GC-MS	30mg/kg	1000mg/kg	



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Tested material list

No.	C'Y	C	C	C	C' C	Description	C	C	C	C'Y	C
1	179	50	55	35	15 B	Chip resistor	15	40	N. B	N. P.	4

Test Result(s):

XRF screening Result				g Result	40	Chemical confirm Result	Damark	O-malwalan	
No.	Pb	Cd	Hg	Cr	Br	(mg/kg)	Remark	Conclusion	
1	BL	BL	BL	BL	NA	5 CF - CF CF	C5 C5	PASS	

Remark:

- 1. BL = below the limit
- 2. OL = over the limit
- 3. X = inconclusive, chemical confirm test is needed
- 4. NA = not applicable
- 5. mg/kg = milligram per kilogram = ppm
- 6. N.D = not detected
- Negative = The Cr⁶⁺ concentration is below the limit of quantification. The coating is considered a non- Cr⁶⁺ based coating.
- 8. Positive = The Cr^{6+} concentration is above the limit of quantification and the statistical margin of error, The sample coating is considered to contain Cr^{6+} .
- 9. 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 Cr⁶⁺.
- 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 Cr⁶⁺) 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. # the lead content of tested component exceeded 1000ppm, but less than 40000ppm, it can comply with the RoHS directive, as it is exempted to contain lead with up to 40000ppm according to item 6(c) of annex III of 2011/65/EU, as per applicant's declaration.

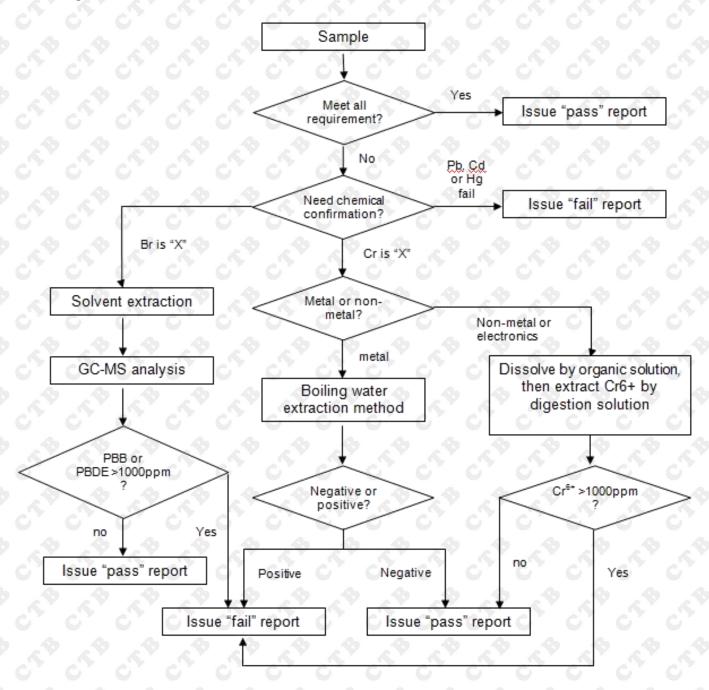


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Test flow chart

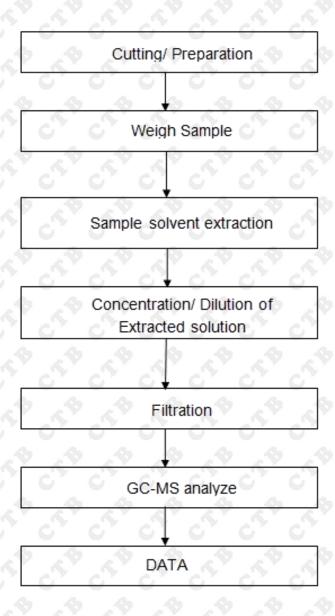
1. Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs





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2. Phthalate test flow chart

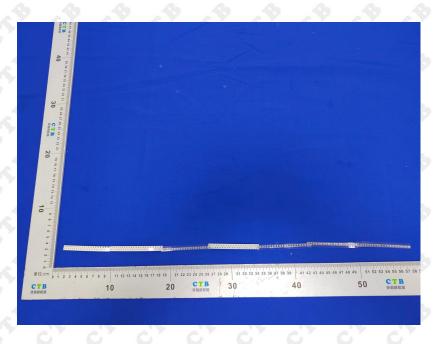


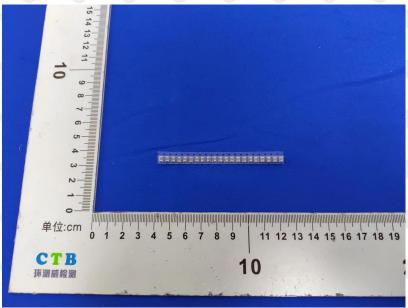


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Photo documentation

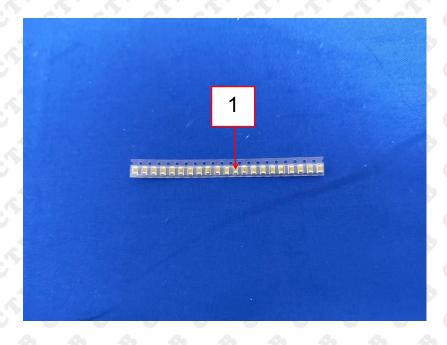






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*** End of Report ***