

Certificate of Verification **NPS**

Applicant : GEYOTO TECHNOLOGY LIMITED
Address : 300 DELAWARE AVENUE SUITE 210-2207 WILMINGTON, DE 19801
Manufacturer : GEYOTO TECHNOLOGY LIMITED
Address : 300 DELAWARE AVENUE SUITE 210-2207 WILMINGTON, DE 19801

DECLARE ON OUR SOLE RESPONSIBILITY THAT THE PRODUCT

Product : Solar Panel
Model : YP45-01-EC

The product comply with RoHS Directive 2011/65/EU And Revision Directive (EU) 2015/863.

Test Standard : EN IEC 63000:2018
EN 62321-1:2013、EN 62321-4:2013+A1:2017、EN 62321-5:2013
EN 62321-7-2:2017、EN 62321-6:2015、EN 62321-8:2017

Date of issue : January 30, 2026

Detailed Specification of the tested product Shown in the following test Report(s)
Certificate No.: NPS026010084C1



NPS Standards Institute (HongKong) Company Limited DongGuan Test Laboratory
HK Phone: +852-53700017 www.nps.hk e nps@nps.hk Certificate Query <http://www.rohs.gs>
The statement is based on a single evaluation of the sample of above mentioned products.
It does not imply an assessment of the whole production.

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CE RoHS TEST REPORT

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Report No. : NPS026010084C1
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Manufacturer : GEYOTO TECHNOLOGY LIMITED
Address : 300 DELAWARE AVENUE SUITE 210-2207 WILMINGTON, DE 19801
Importer : N/A
Product Name : Solar Panel
Model No. : YP45-01-EC

The above sample(s) and information were provided by the Applicant.

Test Requested : RoHS (Pb、Cd、Hg、Cr6+、PBBs、PBDEs、DEHP、BBP、DBP、DIBP)

Test Method : IEC 62321-3-1:2013、IEC 62321-4:2017、IEC 62321-5:2013
: IEC 62321-6:2015、IEC 62321-7-2:2017、IEC 62321-8:2017

Date of Test : January 23, 2026 to January 30, 2026

Date of issue : January 30, 2026

Test Results : Pass

Conclusion :Based on the performed tests on submitted sample(s), the results of Pb(Lead),Cd(Cadmium), Hg(Mercury),Cr⁶⁺(Hexavalent chromium),(PBBs)Polybrominated biphenyls,(PBDEs)Polybrominated Diphenyl Ethers, Hthalate(DEHP,BBP,DBP,DIBP).

Comply with the limits in RoHS Directive 2011/65/EU and its amended Directive (EU) 2015/863.

Reviewed by:

Jerry Chou

(Chief Engineer)



NPS Test Laboratory(DongGuan)Company Limited

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TEST SUMMARY

Test Item(s)	Test Requirement	Test Method		EU RoHS Limit (mg/kg)
		Chemical Method	X-ray Method	
Pb (Lead)	EN 62321-3-1:2013 EN 62321-5:2013	IEC 62321-5:2013	IEC 62321-3-1:2013	0.1% (1000)
Cd (Cadmium)	EN 62321-3-1:2013 EN 62321-6:2015	IEC 62321-6:2015		0.01% (100)
Hg(Mercury)	EN 62321-3-1:2013 EN 62321-4:2017	IEC 62321-4:2017		0.1% (1000)
Cr ⁶⁺ (Chromium)	EN 62321-3-1:2013 EN 62321-7-2:2017	IEC 62321-7-2:2017		0.1% (1000)
PBBs+PBDEs(Br)	EN 62321-3-1:2013 EN 62321-6:2015	IEC 62321-6:2015		0.1% (1000)
DEHP(Di-2-ethylh Exyl Phthalate)	EN 62321-8:2017	IEC 62321-8:2017	N/A	0.1% (1000)
BBP(Butyl benzyl Phthalate)			N/A	0.1% (1000)
DBP(Dibutyl Phthalate)			N/A	0.1% (1000)
DIBP(Diisobutyl phthalate)			N/A	0.1% (1000)
Test Conclusion				
Tested samples		Standard		Result
Screening components		Screening by XRF spectroscopy		Pass
of submitted samples		and chemical confirmation test		Pass

Remarks: Priority to refer to NPS internal standards to IEC 62321-3-1/4/5/6/7/8

(a) Part 3-1: Screening - Lead, mercury, cadmium, total chromium and total bromine by X-ray fluorescence spectrometry

(b) Chemical test

- (1) 1 mg/kg = 1 ppm = 0.0001%.
- (2) MDL = Method detection limit.
- (3) N.D. = Not Detected (< MDL).
- (4) "N/A" = Not Applicable.



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RoHS Test Report

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XRF Screening Limit in mg/kg for regulated elements in various matrices.

Element	Polymer materials	Metallic materials	Composite materials
Cd	$BL \leq (70 - 3\sigma) < X < (130 + 3\sigma) \leq OL$	$BL \leq (70 - 3\sigma) < X < (70 + 3\sigma) \leq OL$	$LOD < X < (150 + 3\sigma) \leq OL$
Pb	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Hg	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (700 - 3\sigma) < X < (1300 + 3\sigma) \leq OL$	$BL \leq (500 - 3\sigma) < X < (1500 + 3\sigma) \leq OL$
Cr	$BL \leq (700 - 3\sigma) < X$	$BL \leq (700 - 3\sigma) < X$	$BL \leq (500 - 3\sigma) < X$
Br	$BL \leq (300 - 3\sigma) < X$	Not Applicable	$BL \leq (250 - 3\sigma) < X$

Remark:

- A "BELOW LIMIT" (BL) or "OVER LIMIT" (OL) determination will be set at 30 % (50 % for composite materials) less than or greater than the limit, respectively. The margins of safety have been agreed upon based on the experience of many experts and practitioners in the industry. Further explanation for this approach to estimating uncertainty.
- The symbol "X" marks the region, where further investigation is necessary.
- LOD means Limit of Detection.
- The term "3σ" expresses the repeatability of the analyzer at the action level.

XRF Relative deviation

Element	Polymer materials	Metallic materials	Composite materials
Pb	30	30	30
Cd	10	10	10
Hg	30	30	30
Cr	30	30	30
Br	30	--	30



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Other notes

Remark:

- Chemical confirmation tests were conducted to verify the inconclusive results, Chromium(VI)(Cr⁶⁺), Poly brominated biphenyls(PBBs) and Poly brominated diphenyl ethers(PBDEs) content.
- As requested by the applicant, only components shown in this report were screened by XRF spectroscopy for 2011/65/EU (EU) 2015/863)other components were not screened included in this report.

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 results 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.

- Photos are included.

Possible test case verdicts

- Specimens, which requested to determine Cadmium, Mercury and Lead Content by chemical test, have been dissolved completely.
- 1mg/kg = 1ppm = 0.0001%
- N.D.= Not detected(<MDL)
- MDL = Method detection limit.
- N/A= Not Applicable
- "--"= Not Applicable
- BL= BELOW LIMIT
- OL= OVER LIMIT
- X= Inconclusive



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Screening by XRF Spectroscop (Chemical Confirmation Test)

Test Item(s): Pb, Cd, Hg, Cr, Br (PBBs/PBDEs)

X-ray Method: IEC 62321-3-1:2013

Chemical method: IEC/EN62321-4、IEC/EN62321-5、IEC/EN62321-6、IEC/EN 62321-7-2

No.	Sample name	XRF Results (mg/kg)					Chemical confirmation result (mg/kg)	Conclusion
		Pb	Cd	Hg	Cr	Br		
1	Dark grey Oxford cloth	BL	N.D.	N.D.	BL	N.D.	--	Pass
2	White letters	N.D.	N.D.	N.D.	N.D.	N.D.	--	Pass
3	Silver metal fastener	N.D.	N.D.	N.D.	N.D.	--	--	Pass
4	Black Oxford cloth	N.D.	N.D.	N.D.	BL	N.D.	--	Pass
5	Outer transparent film	BL	N.D.	N.D.	N.D.	N.D.	--	Pass
6	Thin-film battery	BL	N.D.	N.D.	N.D.	N.D.	--	Pass
7	Black plastic	N.D.	N.D.	N.D.	N.D.	BL	--	Pass
8	Black plastic cover plate	N.D.	N.D.	N.D.	N.D.	BL	--	Pass
9	Silver metal screws	N.D.	N.D.	N.D.	X	--	Cr(VI): negative	Pass
10	Black rubber protective cover	N.D.	N.D.	N.D.	N.D.	N.D.	--	Pass
11	Silver metal wire	N.D.	N.D.	N.D.	BL	--	--	Pass
12	Black sealant	N.D.	BL	N.D.	N.D.	N.D.	--	Pass
13	PCB	N.D.	N.D.	N.D.	N.D.	X	PBBs&PBDEs:N.D.	Pass
14	Red plastic cable cover	N.D.	N.D.	N.D.	BL	N.D.	--	Pass
15	Black rubber sleeve	N.D.	N.D.	N.D.	N.D.	N.D.	--	Pass
16	Copper wire	N.D.	N.D.	N.D.	BL	--	--	Pass
17	Black insulating material	N.D.	N.D.	N.D.	BL	X	PBBs&PBDEs:N.D.	Pass
18	Solder	N.D.	N.D.	N.D.	N.D.	--	--	Pass
19	Silver-colored metal (electrolytic capacitor)	BL	N.D.	N.D.	N.D.	--	--	Pass
20	Rubber gasket (electrolytic capacitor)	N.D.	N.D.	N.D.	N.D.	N.D.	--	Pass

Explain: N.D.= Not detected(<MDL), MDL= Method detection limit, N/A= Not Applicable "--"= Not Applicable
BL= BELOW LIMIT, OL= OVER LIMIT, X= Inconclusive, Negative = Negative means the absence of Chromium VI on the tested areas. Positive = Positive means the presence of Chromium VI on the tested areas.



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Screening by XRF Spectroscop (Chemical Confirmation Test)

Test Item(s):Pb,Cd,Hg,Cr,Br(PBBs/PBDEs)

X-ray Method:IEC 62321-3-1:2013

Chemical method:IEC/EN62321-4、IEC/EN62321-5、IEC/EN62321-6、IEC/EN 62321-7-2

No.	Sample name	XRF Results (mg/kg)					Chemical confirmation result (mg/kg)	Conclusion
		Pb	Cd	Hg	Cr	Br		
21	kraft paper (electrolytic capacitor)	N.D.	N.D.	N.D.	N.D.	N.D.	--	Pass
22	Black electronic components	N.D.	N.D.	N.D.	N.D.	BL	--	Pass
23	Silver metal	N.D.	N.D.	N.D.	X	--	Cr(VI): negative	Pass
24	Black plastic	N.D.	N.D.	N.D.	X	N.D.	Cr(VI): N.D.	Pass
25	USB (Silver Metal)	N.D.	N.D.	N.D.	BL	--	--	Pass
26	USB (black plastic)	N.D.	N.D.	N.D.	N.D.	N.D.	--	Pass
27	USB (silver metal pins)	N.D.	N.D.	N.D.	BL	--	--	Pass
28	White light	N.D.	N.D.	N.D.	N.D.	X	PBBs&PBDEs:N.D.	Pass

Explain: N.D.= Not detected(<MDL),MDL= Method detection limit, N/A= Not Applicable "--"= Not Applicable
BL= BELOW LIMIT, OL= OVER LIMIT, X= Inconclusive, Negative = Negative means the absence of Chromium VI on the tested areas.Positive = Positive means the presence of Chromium VI on the tested areas.



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Chemical Phthalates Test

Test Item(s): Phthalates(DEHP,BBP,DBP,DIBP)

Test method: IEC/EN62321-8

Test Item(s)	CAS No.	Result (mg/kg)			MDL (mg/kg)	Conclusion
		1+2+4	5+6+7	8+10+12		
Di-(2-ethylhexyl)Phthalate(DEHP)	117-81-7	N.D.	N.D.	N.D.	30	Pass
Dibutyl Phthalate(DBP)	84-74-2	N.D.	N.D.	N.D.	30	Pass
Benzylbutyl Phthalate(BBP)	85-68-7	N.D.	N.D.	N.D.	30	Pass
Diisobutyl Phthalate(DIBP)	84-69-5	N.D.	N.D.	N.D.	30	Pass

Test Item(s)	CAS No.	Result (mg/kg)			MDL (mg/kg)	Conclusion
		13+14+15	17+20+21	24+26		
Di-(2-ethylhexyl)Phthalate(DEHP)	117-81-7	N.D.	N.D.	N.D.	30	Pass
Dibutyl Phthalate(DBP)	84-74-2	N.D.	N.D.	N.D.	30	Pass
Benzylbutyl Phthalate(BBP)	85-68-7	N.D.	N.D.	N.D.	30	Pass
Diisobutyl Phthalate(DIBP)	84-69-5	N.D.	N.D.	N.D.	30	Pass

Explain: others are glass,ceramic and metallic materials without testing phthalates.

Remarks :

- 1mg/kg = 1ppm = 0.0001%.
- N.D.= Not Detected(<MDL).
- MDL = Method detection limit.
- The results shown in this test report refer only to the sample tested.
- 5.3 points for a group of data ≤300mg/kg is judged to be qualified,>300mg/kg requires independent testing.



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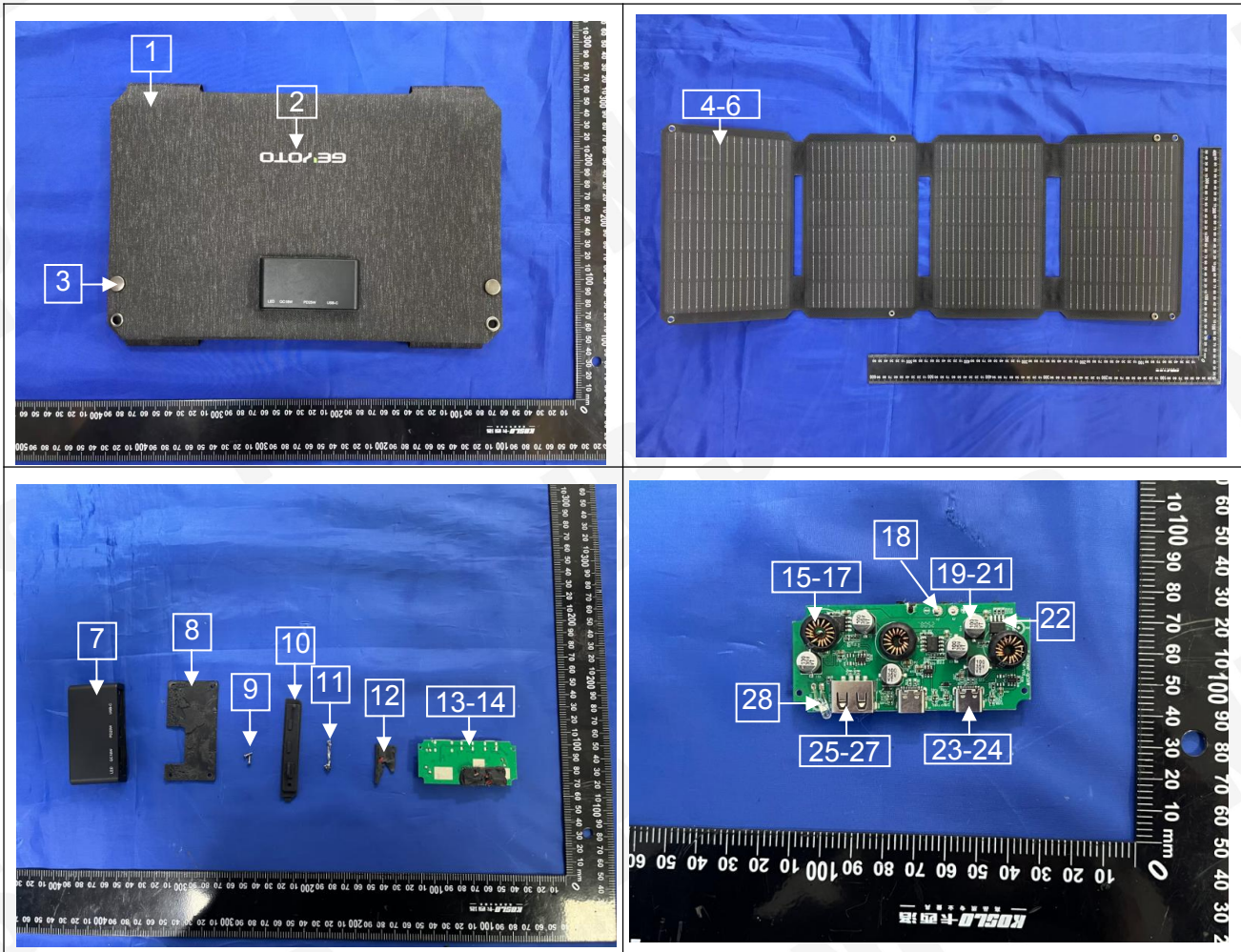
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Sample Test site



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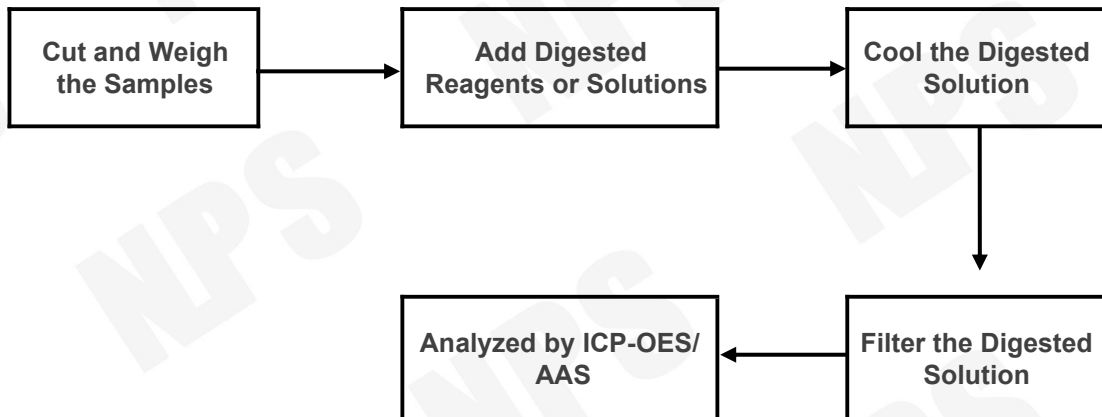
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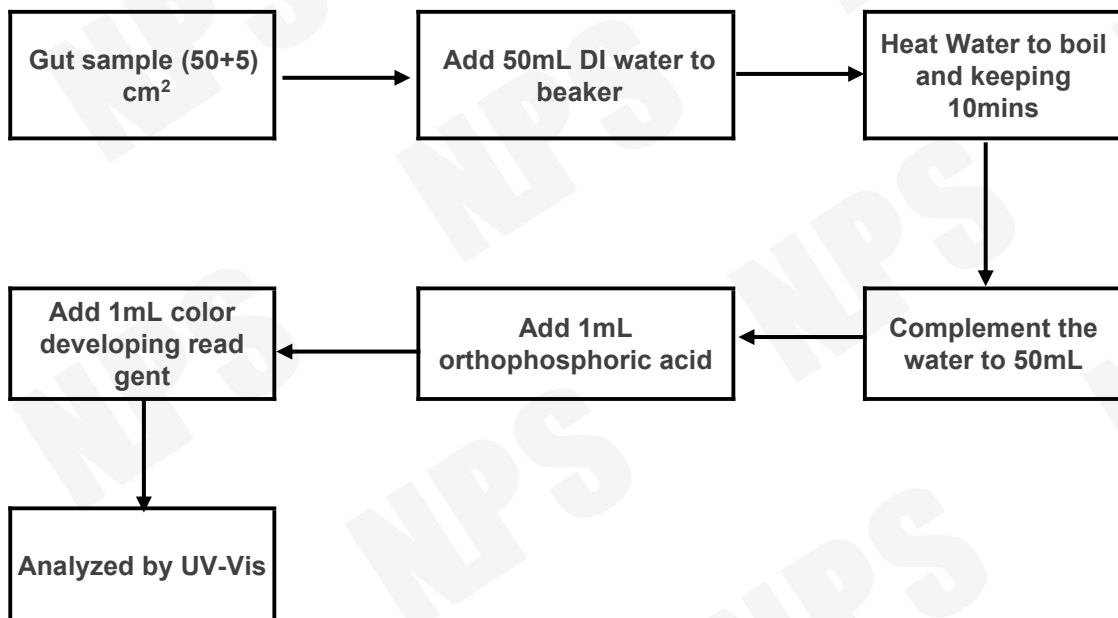
Chemical Testing Process Flow

Lead, Cadmium, Mercury, Hexavalent Chromium Testing Process Flow

Lead, Cadmium, Mercury



Hexavalent Chromium

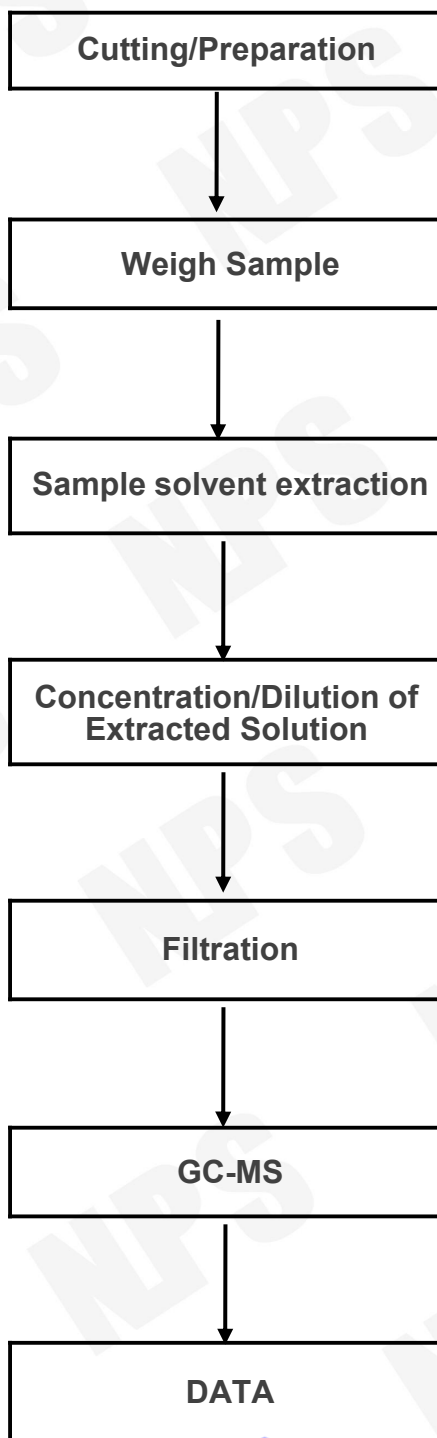


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PBBs/PBDEs/Phthalates Testing Process Flow



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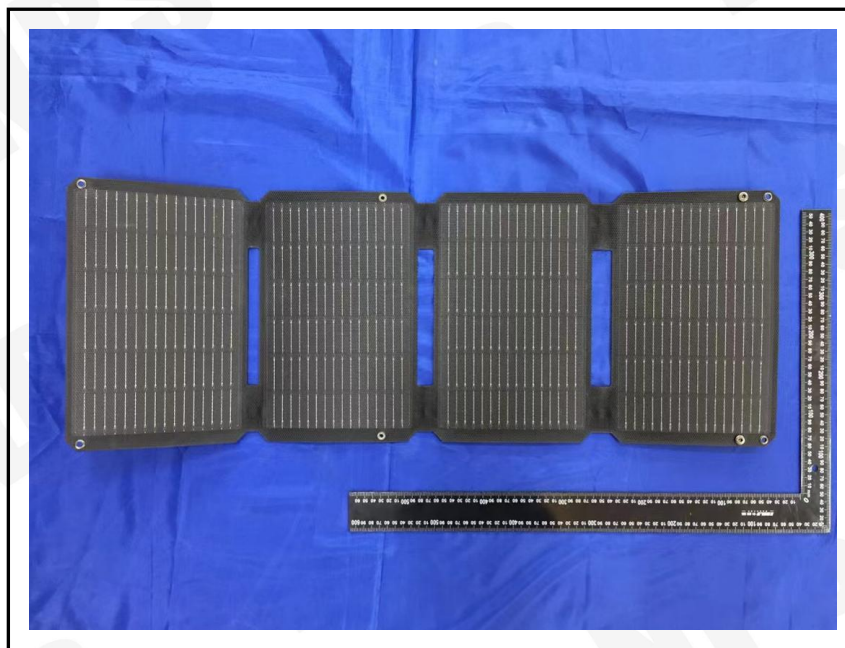
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Sample Photo



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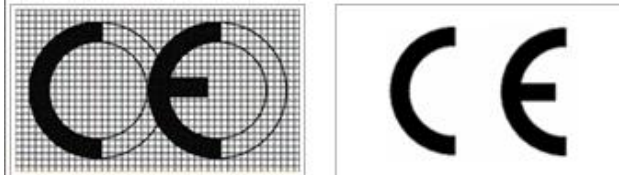
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CE Label

1. The CE conformity marking must consist of the initials 'CE' taking the following form:
If the CE marking is reduced or enlarged, the proportions given in the above graduated drawing must be respected.
2. The CE marking must have a height of at least 5 mm except where this is not possible on account of the nature of the apparatus.
3. The CE marking must be affixed to the product or to its data plate. Additionally it must be affixed to the packaging, if any, and to the accompanying documents.
4. The CE marking must be affixed visibly, legibly and indelibly. It must have the same height as the initials 'CE' Proposed Label Location on EUT

EUT Bottom View/proposed CE Mark Location



*** End of Report ***



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