

Verification Report

Report No.: SFT23121151530E

Date: December 15, 2023

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Applicant: JIELING TECHNOLOGY (GUANGZHOU) CO.,LTD

Address: 2F HuaXiu Road16, DongHua Industry Park, RenHe Town, BaiYun District, GuangZhou City (White clouds in the airport), P.R. China

The following merchandise was (were) submitted and identified by client as:

Sample Name: PET defogger

Model No.: JL-2030

Client Ref. Info.: JL-3040, JL-3050, JL-4060, JL-4050, JL-4040, JL-3030, JL-2535, JL-1525, JL-2040, JL-3060, JL-3560, JL-6080, JL-R300, JL-3080, JL-2540, JL-3070, JL-4080, JL-5060, JL-R250, JL-R400, JL-T3040

Manufacturer: JIELING TECHNOLOGY (GUANGZHOU) CO.,LTD

Address: 2F HuaXiu Road16, DongHua Industry Park, RenHe Town, BaiYun District, GuangZhou City (White clouds in the airport), P.R. China

Test Period: From December 11, 2023 to December 14, 2023

SUMMARY OF TEST RESULTS

TEST REQUESTED	CONCLUSION
Heavy Metals , Flame Retardants and Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863	PASS

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

Signed for and on Behalf of SFT



Tom Yin / Technical Manager
Guangdong Safety Testing Co., Ltd.

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Fax: 86-769-22899858

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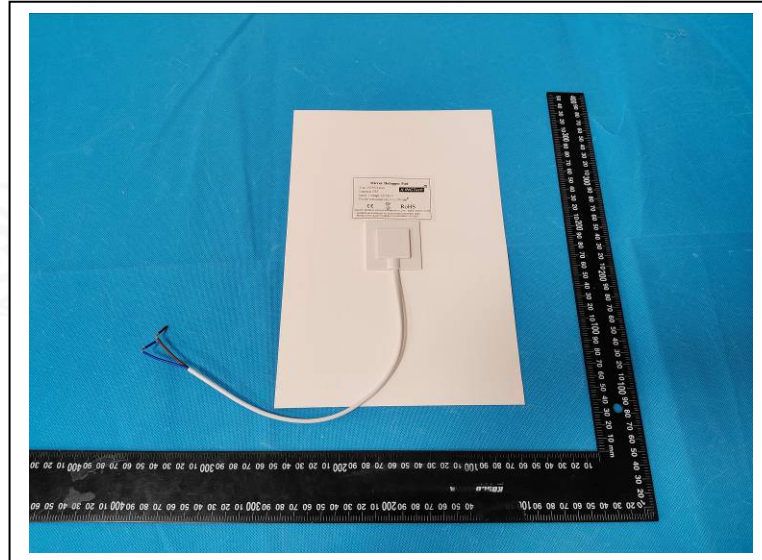
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Sample Photo



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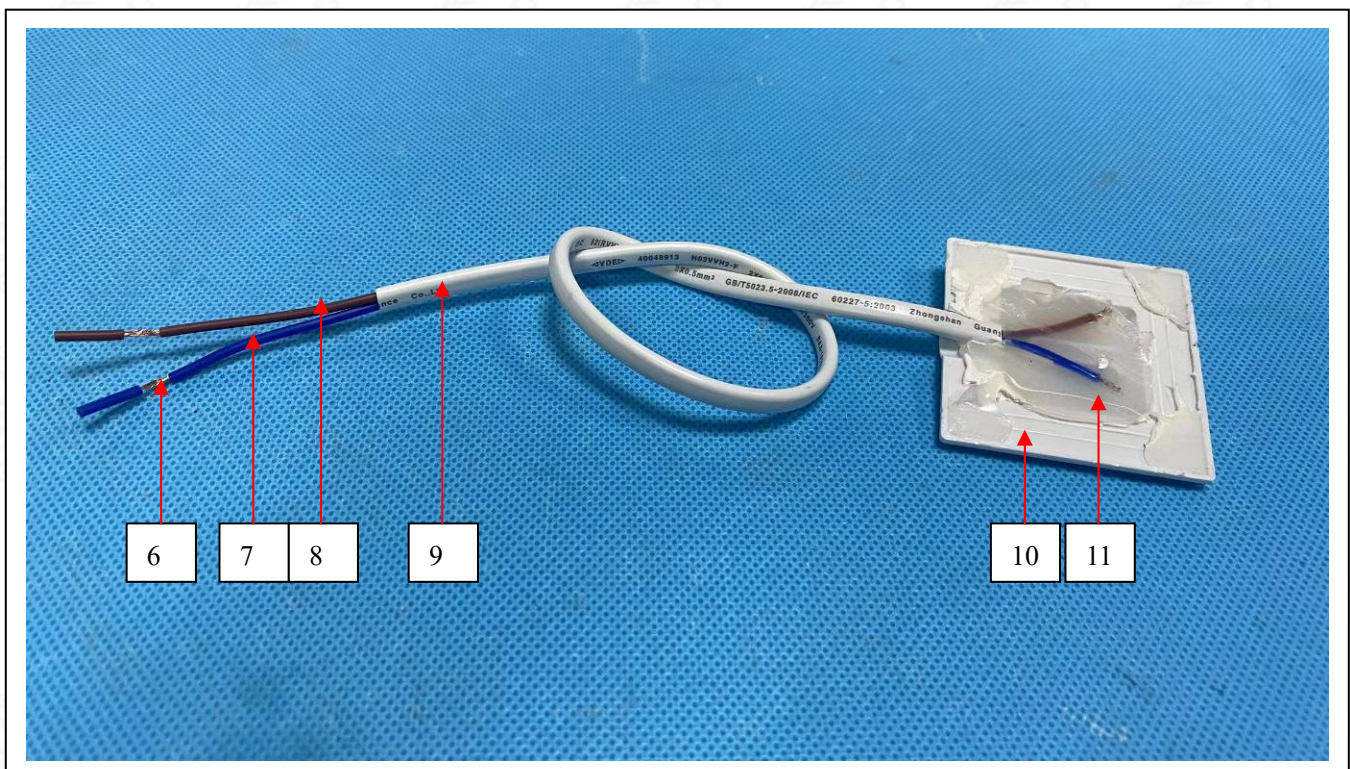
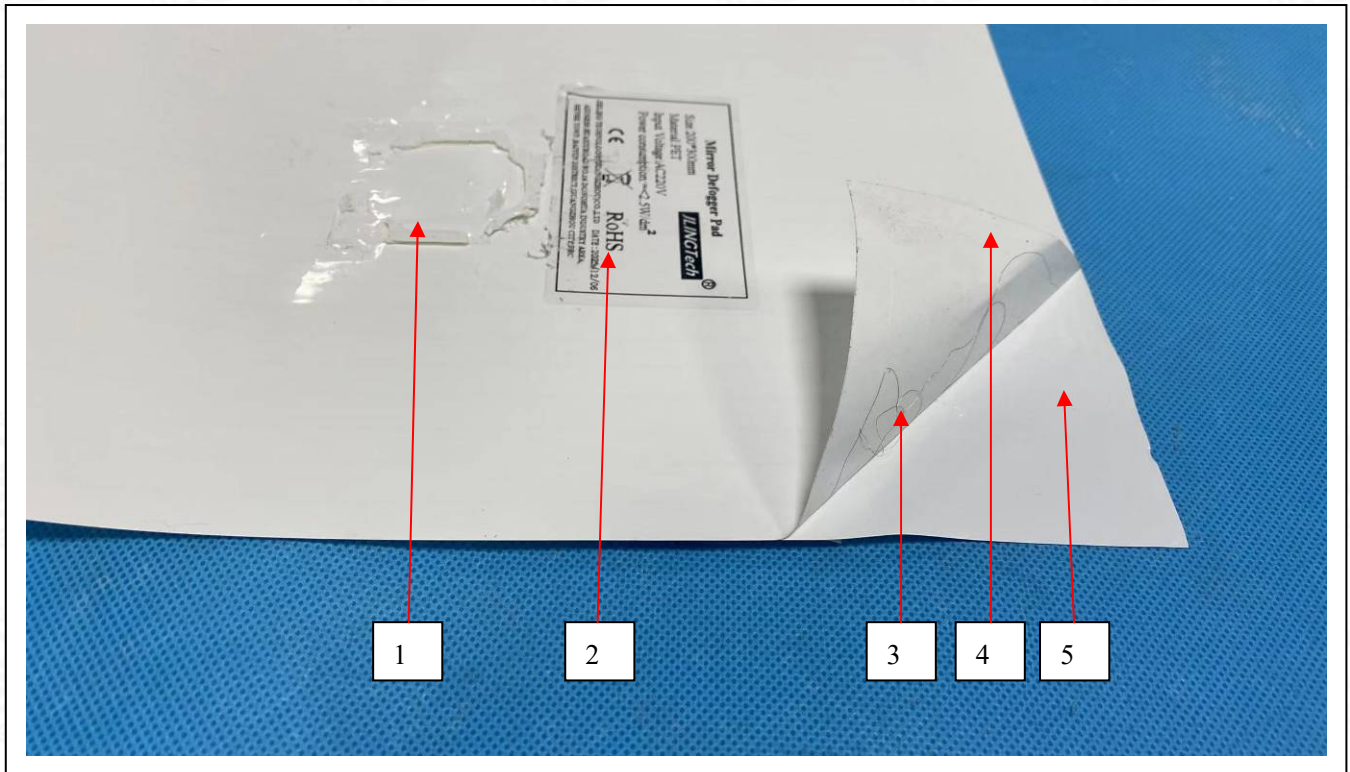
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Sample No.	Sample Description	Remark
1	White glue	-
2	White sticker with black printing	-
3	Silvery metal wire	-
4	White plastic sticker with adhesive	-
5	White plastic sticker with adhesive	-
6	Coppery metal wire	-
7	Blue soft plastic wire jacket	-
8	Brown soft plastic wire jacket	-
9	White soft plastic wire jacket	-
10	White plastic	-
11	Translucent glue	-

Test Result(s):

Heavy Metals , Flame Retardants Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863

Sample No.	Test Item	XRF screening Result	Result of Wet Chemical Testing (mg/kg)	Conclusion
1	Pb	BL	-	PASS
	Cd	BL	-	PASS
	Hg	BL	-	PASS
	Cr (VI)	BL	-	PASS
	PBBs	BL	-	PASS
	PBDEs	BL	-	PASS
2	Pb	BL	-	PASS
	Cd	BL	-	PASS
	Hg	BL	-	PASS
	Cr (VI)	BL	-	PASS
	PBBs	BL	-	PASS
	PBDEs	BL	-	PASS
3	Pb	BL	-	PASS
	Cd	BL	-	PASS
	Hg	BL	-	PASS
	Cr (VI)	BL	-	PASS
	PBBs	NA	-	-
	PBDEs	NA	-	-
4	Pb	BL	-	PASS
	Cd	BL	-	PASS
	Hg	BL	-	PASS
	Cr (VI)	BL	-	PASS

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Sample No.	Test Item	XRF screening Result	Result of Wet Chemical Testing (mg/kg)	Conclusion
	PBBs	BL	-	PASS
	PBDEs	BL	-	PASS
5	Pb	BL	-	PASS
	Cd	BL	-	PASS
	Hg	BL	-	PASS
	Cr (VI)	BL	-	PASS
	PBBs	BL	-	PASS
	PBDEs	BL	-	PASS
6	Pb	BL	-	PASS
	Cd	BL	-	PASS
	Hg	BL	-	PASS
	Cr (VI)	BL	-	PASS
	PBBs	NA	-	-
	PBDEs	NA	-	-
7	Pb	BL	-	PASS
	Cd	BL	-	PASS
	Hg	BL	-	PASS
	Cr (VI)	BL	-	PASS
	PBBs	BL	-	PASS
	PBDEs	BL	-	PASS
8	Pb	BL	-	PASS
	Cd	BL	-	PASS
	Hg	BL	-	PASS
	Cr (VI)	BL	-	PASS
	PBBs	BL	-	PASS
	PBDEs	BL	-	PASS
9	Pb	BL	-	PASS
	Cd	BL	-	PASS
	Hg	BL	-	PASS
	Cr (VI)	BL	-	PASS
	PBBs	BL	-	PASS
	PBDEs	BL	-	PASS
10	Pb	BL	-	PASS
	Cd	BL	-	PASS
	Hg	BL	-	PASS
	Cr (VI)	BL	-	PASS
	PBBs	BL	-	PASS
	PBDEs	BL	-	PASS
11	Pb	BL	-	PASS
	Cd	BL	-	PASS
	Hg	BL	-	PASS
	Cr (VI)	BL	-	PASS
	PBBs	BL	-	PASS
	PBDEs	BL	-	PASS

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Phthalates Content - European Council Directive 2011/65/EU on the Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment (RoHS) with its Amendments Commission Delegated Directive (EU) 2015/863

Sample No.	Result (mg/kg)				Conclusion
	DBP	BBP	DEHP	DIBP	
1+11	ND	ND	ND	ND	PASS
2+4+5	ND	ND	ND	ND	PASS
7+8+9	ND	ND	ND	ND	PASS
10	ND	ND	110	ND	PASS

Remark:

- It is the result on total Br while test item is PBBs/PBDEs. It is the result on total Cr while test item is Cr (VI).
- Results are obtained by EDXRF for primary screening, and further chemical testing by ICP(for Cd, Pb, Hg), UV-VIS (for Cr (VI)) and GC/MS (for PBBs, PBDEs)is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3:2013 (unit: mg/kg) .

Element	Polymer	Metal	Composite Materials
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
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	$BL \leq (300-3\sigma) < X$	--	$BL \leq (250-3\sigma) < X$

- ND = Not Detected (<MDL)
- mg/kg = milligram(s) per kilogram = ppm = part(s) per million
- MDL = Method Detection Limit
- BL = Below Limit
- OL = Over Limit
- IN = Inconclusive
- NA= Not Applicable
- The XRF screening test for RoHS elements - The reading may be different to the actual content in the sample be of non-uniformity composition.
- For Metal sample:
 - The sample is positive for CrVI if the CrVI concentration is greater than $0.13\mu\text{g}/\text{cm}^2$. The sample coating is considered to contain CrVI .
 - The sample is negative for CrVI if CrVI is ND(concentration less than $0.10\mu\text{g}/\text{cm}^2$). The coating is considered a non-CrVI based coating.
 - The result between $0.10\mu\text{g}/\text{cm}^2$ and $0.13\mu\text{g}/\text{cm}^2$ is considered to be inconclusive unavoidable coating variations may influence the determination
- Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI)results represent status of the sample at the time of testing.

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Test Items and their Test Methods, Equipments, Method Detection Limit and Limit [for European Council Directive 2011/65/EU&(EU) 2015/863] :

Test Items	Test Method	Equipment(s)	Method Detection Limit	Limit
Screening Test	IEC 62321-3-1:2013	XRF	-	-
Pb	IEC 62321-5:2013	ICP-OES/AAS	10mg/kg	1000mg/kg
Cd	IEC 62321-5:2013	ICP-OES/AAS	10mg/kg	100mg/kg
Hg	IEC 62321-4:2013+AMD1:2017	ICP-OES	10mg/kg	1000mg/kg
Cr	IEC 62321-5:2013	ICP-OES	10mg/kg	-
Cr (VI)	IEC 62321-7-2:2017	UV-VIS	10mg/kg	1000mg/kg
	IEC 62321-7-1:2015	UV-VIS	0.10µg/cm ²	1000mg/kg
PBBs	IEC 62321-6:2015	GC-MS	50mg/kg	1000mg/kg
PBDEs	IEC 62321-6:2015	GC-MS	50mg/kg	1000mg/kg
DBP	IEC 62321-8:2017	GC-MS	100mg/kg	1000mg/kg
BBP	IEC 62321-8:2017	GC-MS	100mg/kg	1000mg/kg
DEHP	IEC 62321-8:2017	GC-MS	100mg/kg	1000mg/kg
DIBP	IEC 62321-8:2017	GC-MS	100mg/kg	1000mg/kg

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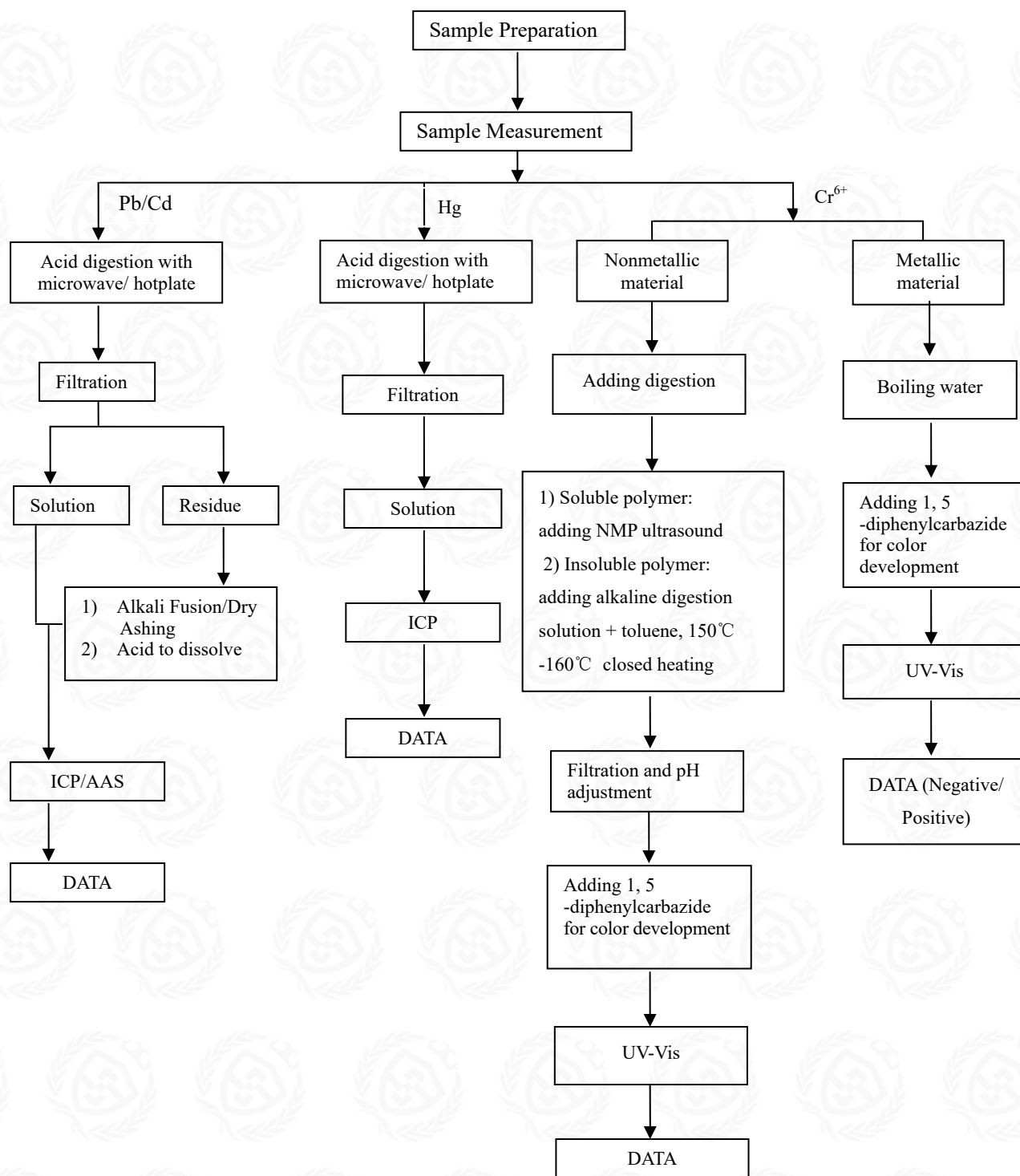
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Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart



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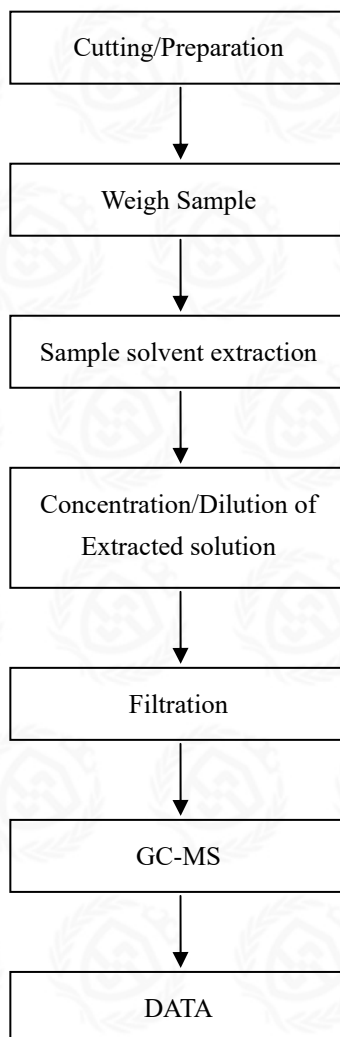
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PBBs/PBDEs Testing Flow Chart



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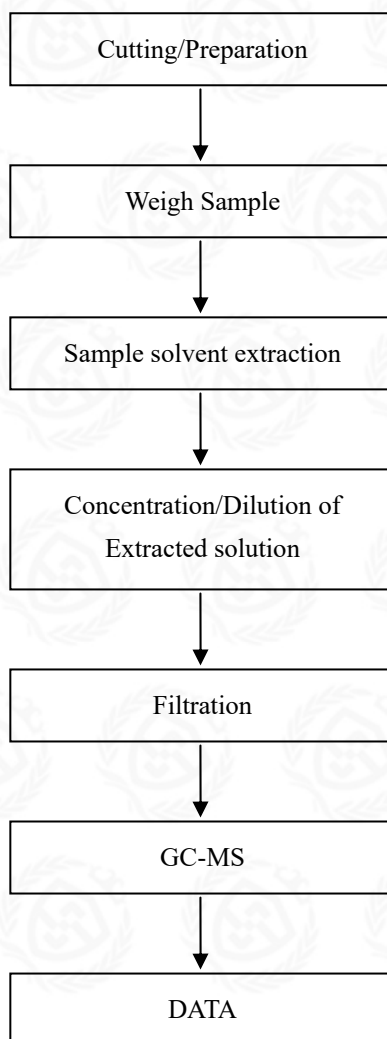
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Phthalates Testing Flow Chart



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