

Test Report No. VNT/H/20/000890

Dated May 26, 2020



Vietnam

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Applicant : **VITA GLOBAL**
Address : Thừa đất số 10, Tờ bản đồ số 24,
Khu phố Bình Khánh, Phường Khánh
Bình, Thị Xã Tân Uyên, Tỉnh Bình Dương,
Việt Nam
Contact Person : NGUYỄN TẤN ĐẠO
Test Sample : Received on May 20, 2020
Test Period : From May 20, 2020 to May 26, 2020
Sample Description : Hạt nhựa PP màu đen/ Black PP Pellet
Manufacturer : CÔNG TY TNHH VITA GLOBAL
Model/Style# : HẠT/ PELLET
ITEM : PP ĐEN
Color : ĐEN/BLACK
Quantity Type or specie/Material : POLYPROPYLEN
Country Of Origin : Việt Nam
Country Of Destination : Việt Nam
Test Specification : In accordance with the Restriction of
Hazardous Substances (RoHS) Directive
2011/65/EU, and its amendment directives
(1) Heavy Metals Content (Cadmium,
Lead, Mercury, Hexavalent Chromium)
(2) Brominated Flame Retardants Content
(PBBs & PBDEs)
(3) Phthalates (DEHP, DBP, BBP, DIBP)

Note(s):

The submitted sample(s) is Not Drawn by the Laboratory.

Note: (1) General Terms & Conditions as mentioned overleaf, (2) The results relate only to the items tested, (3) the test report shall not be reproduced except in full without the written approval of the laboratory.

Disclaimer Measurement Uncertainty:

Unless otherwise agreed upon, Pass or Fail verdicts are given based on the measured values without any considerations of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO/IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as PASS nor as FAIL.

Laboratory: TÜV SÜD Vietnam Co. Ltd.
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Tan Binh I.P, Tay Thanh Ward, Tan Phu District,
Ho Chi Minh City, Vietnam

Phone: 084-28-6267 8507
Fax: 084-28-6267 8511
Url: www.tuv-sud.vn

Result summary/ Conclusion:

Test parameters	Conclusion
Total Cadmium (Cd)	Pass/ See Result(s)
Total Lead (Pb)	Pass/ See Result(s)
Total Mercury (Hg)	Pass/ See Result(s)
Hexavalent Chromium (Cr VI)	Pass/ See Result(s)
Sum of PBBs	Pass/ See Result(s)
Sum of PBDEs	Pass/ See Result(s)
Bis-(2-Ethyl Hexyl) Phthalate (DEHP)	Pass/ See Result(s)
Di-butyl Phthalate (DBP)	Pass/ See Result(s)
Benzyl Butyl Phthalate (BBP)	Pass/ See Result(s)
Di-iso-butyl Phthalate (DIBP)	Pass/ See Result(s)

Customer inquiries, please contact:

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TÜV SÜD Vietnam

TÜV SÜD Group

Performed by



Tran Van Khanh (Samson Tran)
Senior Laboratory Technician

Approved by



Nguyen Minh Son
Hardlines Lab Manager

1. Material analysis (As identified by lab)

Sample No.	Material	Color	Mat. No.
Sample 1	Plastic	BLACK	001

2. Test Result(s)

2.1 Heavy Metals Content (Cadmium, Lead, Mercury & Hexavalent Chromium)

With reference to IEC 62321-5:2013, determination of Cadmium, Lead and Chromium Total in polymers, metals and electronics by ICP-OES/ICP-MS

With reference to IEC 62321-4:2013, determination of Mercury in polymers, metals and electronics by ICP-OES/ICP-MS

With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium (Cr(VI)) in polymers and electronics by Colorimetric Method using UV-Vis

Test Parameters	Unit	RL	Result	RoHS Requirement
			001	
Cadmium (Cd)	mg/kg	2	N.D.	100
Lead (Pb)	mg/kg	2	N.D.	1,000
Mercury (Hg)	mg/kg	2	N.D.	1,000
Hexavalent Chromium (Cr VI)	mg/kg	2	N.D.	1,000

Note(s):

1. mg/kg = milligram per kilogram
2. RL = Reporting Limit
3. N.D. = Not Detected (< RL)
4. The result of Hexavalent Chromium (Cr (VI)) is deemed to be "N.D." since the result of total chromium content is "N.D.", so testing of Hexavalent Chromium (Cr (VI)) is not required.
5. If the Chromium (Cr) content is greater than the RL of Hexavalent Chromium (Cr (VI)), confirmation test Hexavalent Chromium (Cr (VI)) is required.

2.2 Brominated Flame Retardants Content (PBBs & PBDEs)

With reference to IEC 62321-6:2015, determination of PBBs and PBDEs in polymers by GC-MS

Test Parameters	Result [mg/kg]	RoHS Requirements [mg/kg]	
	001		
Monobromobiphenyl	N.D.	-	
Dibromobiphenyl	N.D.		
Tribromobiphenyl	N.D.		
Tetrabromobiphenyl	N.D.		
Pentabromobiphenyl	N.D.		
Hexabromobiphenyl	N.D.		
Heptabromobiphenyl	N.D.		
Octabromobiphenyl	N.D.		
Nonabromobiphenyl	N.D.		
Decabromobiphenyl	N.D.		
Sum of PBBs	<i>N.D.</i>		1000
Monobromobiphenyl ether	N.D.		-
Dibromobiphenyl ether	N.D.		
Tribromobiphenyl ether	N.D.		
Tetrabromobiphenyl ether	N.D.		
Pentabromobiphenyl ether	N.D.		
Hexabromobiphenyl ether	N.D.		
Heptabromobiphenyl ether	N.D.		
Octabromobiphenyl ether	N.D.		
Nonabromobiphenyl ether	N.D.		
Decabromobiphenyl ether	N.D.		
Sum of PBDEs	<i>N.D.</i>	1000	

Note(s):

1. N.D. = Not Detected
2. Reporting Limit = 5 mg/kg

2.3 Phthalates

With reference to IEC 62321-8:2017, determination of Phthalates in polymers by GC-MS

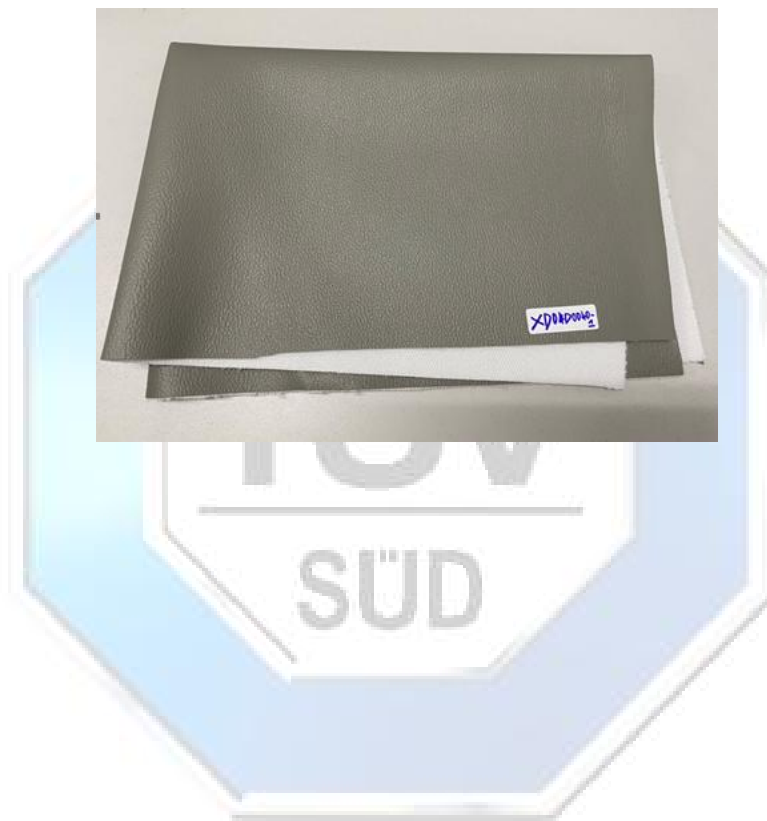
Phthalates	CAS No.	Result [mg/kg]	RoHS Requirements [mg/kg]
		001	
Di-butyl Phthalate (DBP)	84-74-2	N.D.	Each: 1000
Bis-(2-Ethyl Hexyl) Phthalate (DEHP)	117-81-7	N.D.	
Benzyl Butyl Phthalate (BBP)	85-68-7	N.D.	
Di-iso-butyl Phthalate (DIBP)	84-69-5	N.D.	

Note(s):

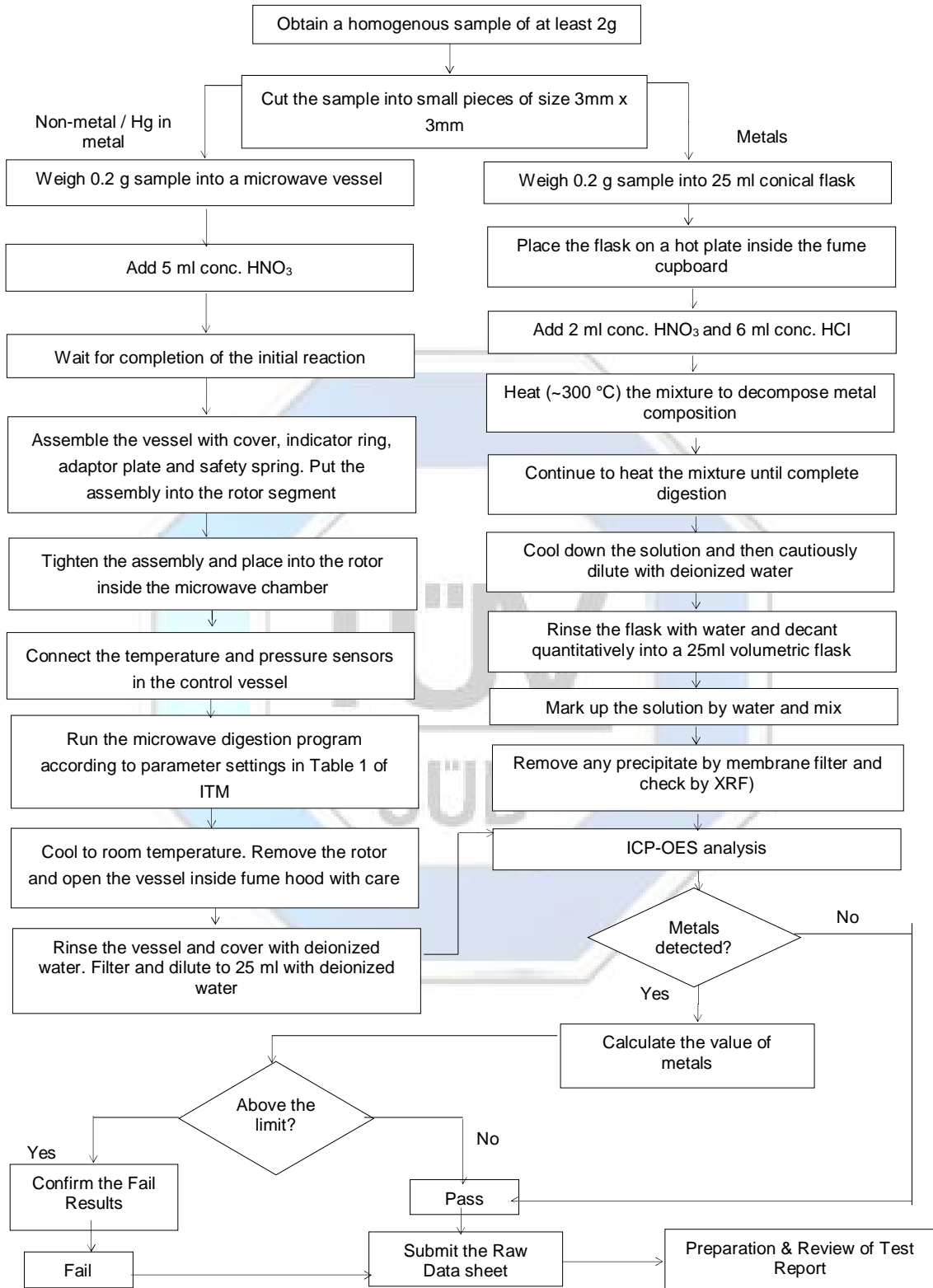
1. N.D. = Not Detected
2. Reporting limit = 50 mg/kg



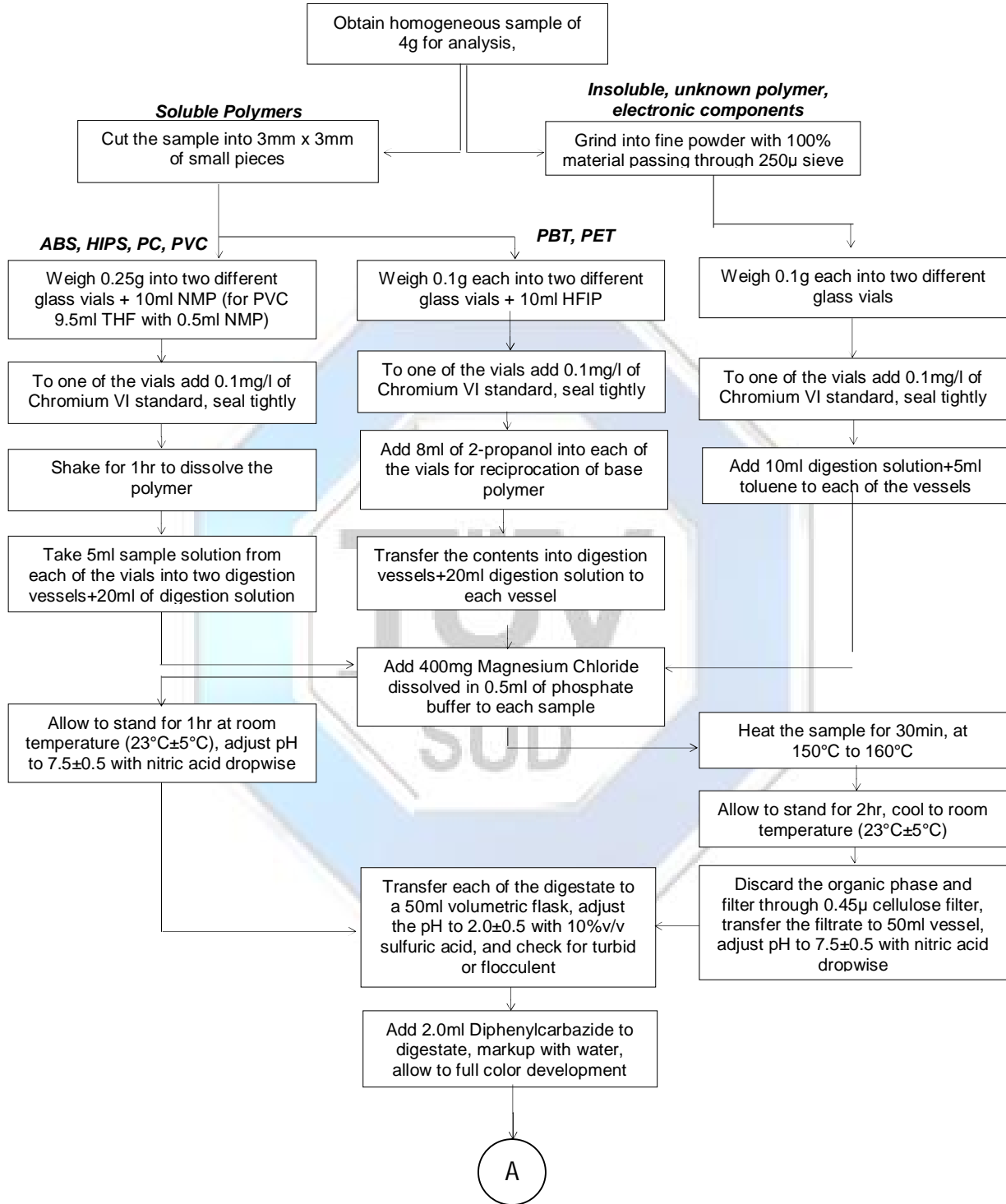
3. Sample Photo



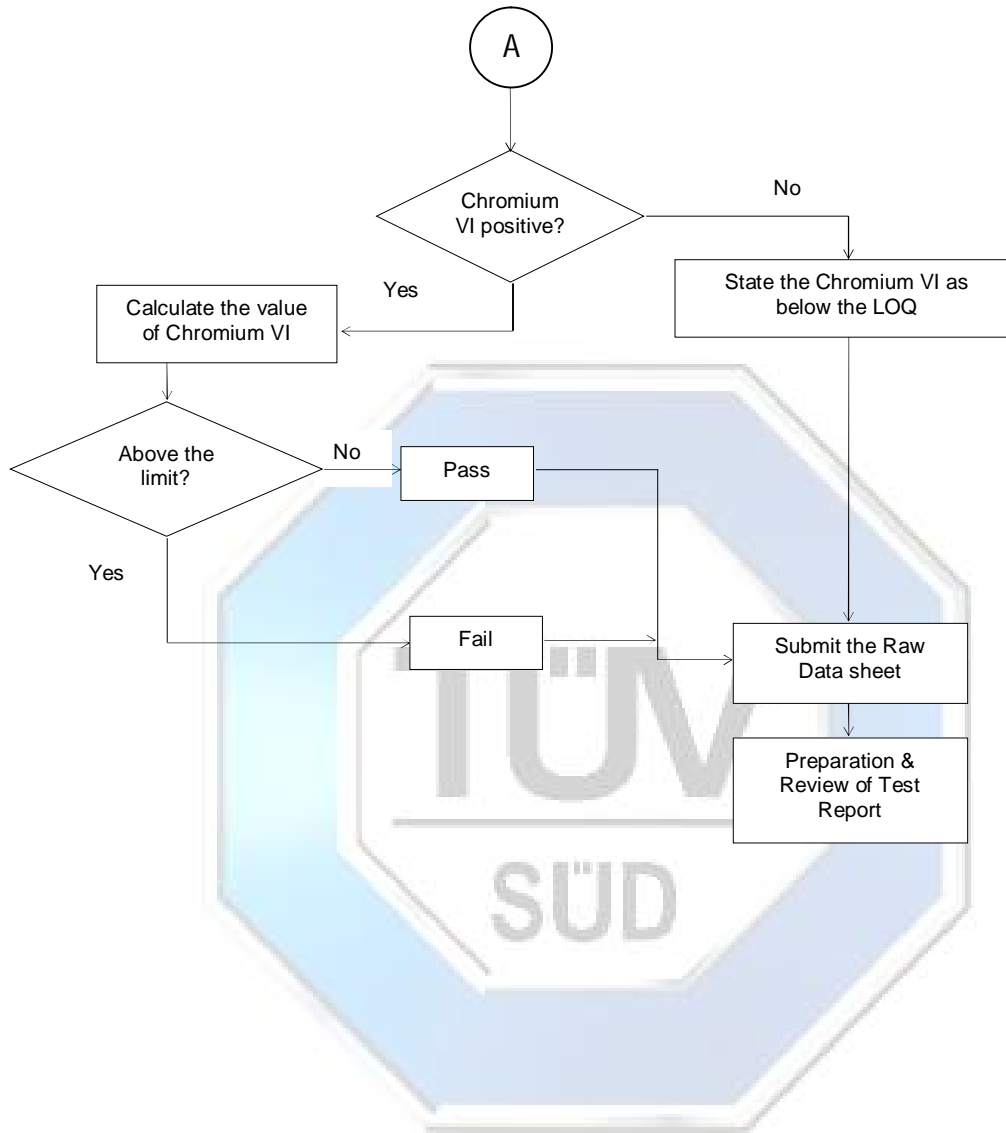
Determination of Certain Substances in electro-technical Products



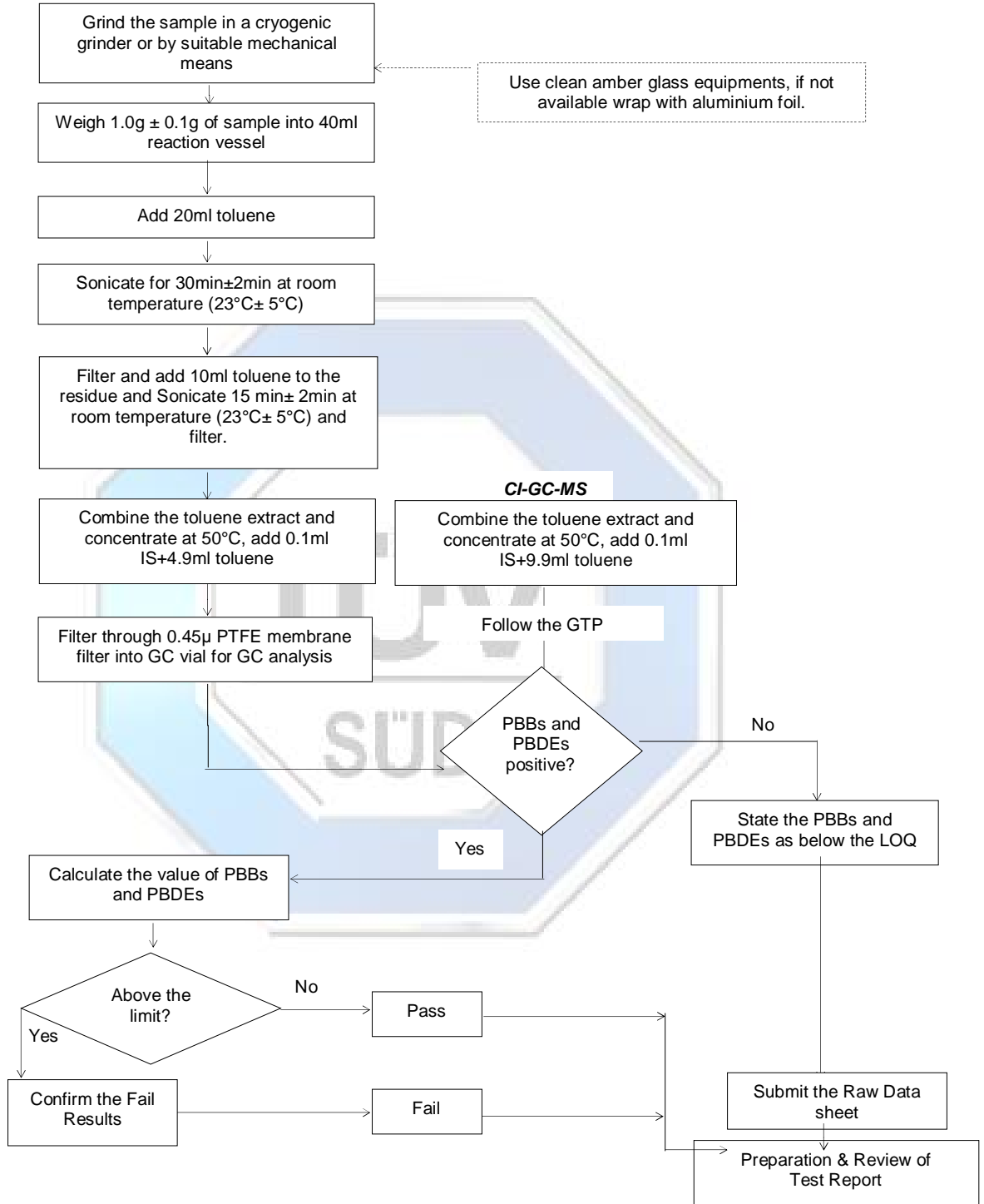
Determination of Hexavalent Chromium (CrVI) in polymers and Electronics by Colorimetric Method



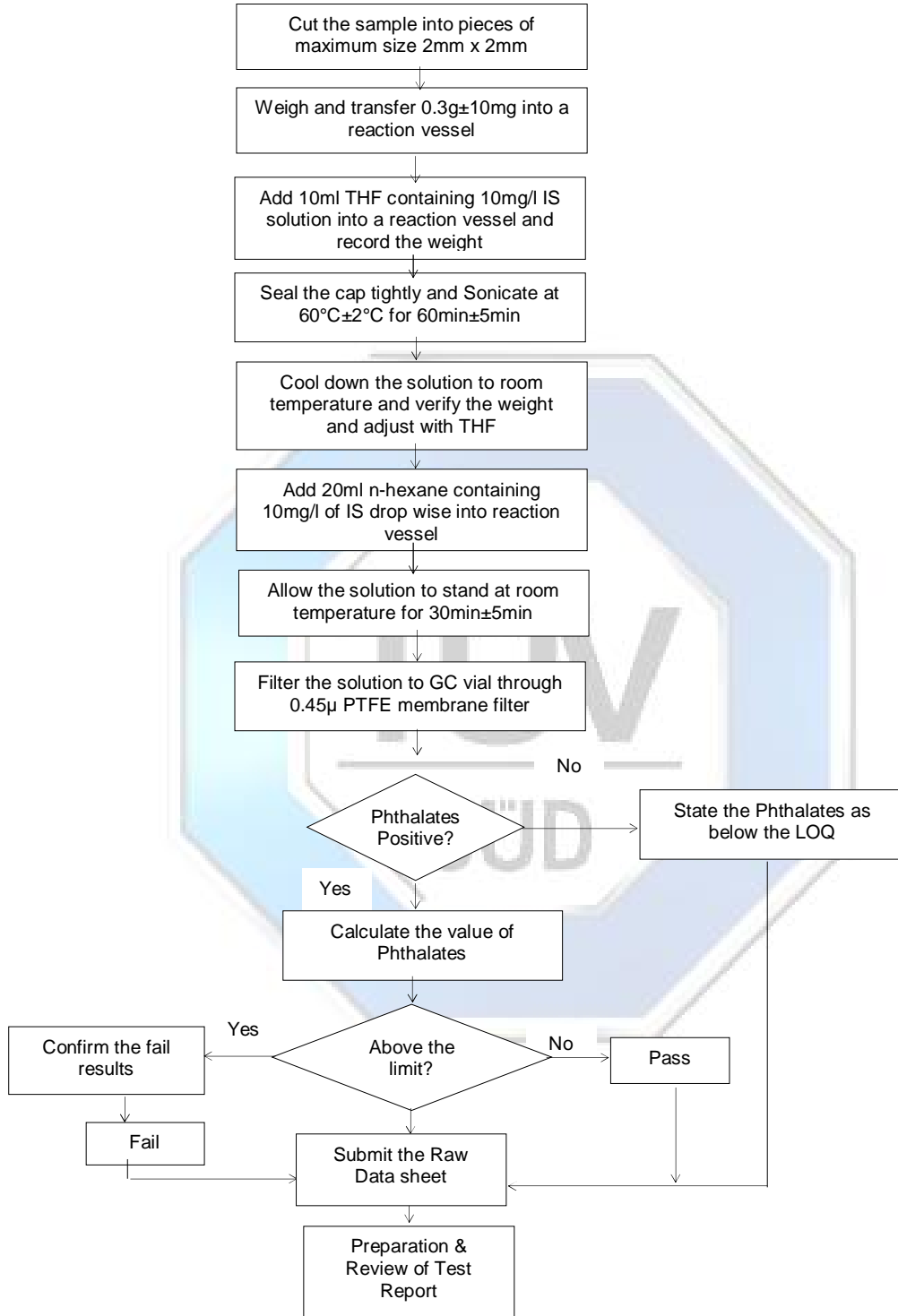
Determination of Hexavalent Chromium (CrVI) in polymers and Electronics by Colorimetric Method



Determination of Poly brominated biphenyls (PBBs) and Poly brominated diphenyl ether (PBDEs) in polymers



Determination of Phthalates in electro-technical Products



-- END OF TEST REPORT --



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