

Test Report No. SHAEC2205264801 Date: 07 Jun 2022 Page 1 of 29

Client Name: TSMC(CHINA)COMPANY LIMITED

Client Address: 4000, WENXIANG ROAD, SONGJIANG, SHANGHAI, CHINA

Sample Name : Wafer

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

SGS Job No.: SP22-008343 - SH

Date of Sample Received: 25 Mar 2022

Testing Period: 25 Mar 2022 - 07 Jun 2022

Test Requested: Selected test(s) as requested by the client.

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

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

Conclusion: Based on the performed tests on submitted sample(s), the results of Cadmium,

Lead, Mercury, Hexavalent chromium, Polybrominated biphenyls (PBBs),

Polybrominated diphenyl ethers (PBDEs) and Phthalates such as

Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Sue Shong

Sue Sheng Approved Signatory





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Test Result(s):

Test Part Description:

Specimen No. SGS Sample ID Description

SHA22-052648.001 SN₁ Colorful solid sheet

Remarks:

(1) 1 mg/kg = 0.0001%

(2) MDL = Method Detection Limit

(3) ND = Not Detected (< MDL)

(4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, AAS, UV-Vis and GC-MS.

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	ND
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1000	mg/kg	8	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Di-butyl Phthalate (DBP)	1000	mg/kg	50	ND	
Benzyl Butyl Phthalate (BBP)	1000	mg/kg	50	ND	
Di-2-Ethyl Hexyl Phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (DIBP)	1000	mg/kg	50	ND	

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series https://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID: 1258637,25
- (2) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Radioactive element

Test Method: With reference to US EPA Method 3052:1996, analysis was performed by ICP-MS

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cesium (Cs)	mg/kg	1	ND
Strontium (Sr)	mg/kg	1	ND
Uranium (U)	mg/kg	1	ND
Thorium (Th)	mg/kg	1	ND

Notes:

No radioactivity is detected by geiger counter

Element(s)

Test Method: With reference to US EPA 3052:1996, analysis was performed by ICP-OES.



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 Test Item(s)
 Unit
 MDL
 001

 Beryllium (Be)
 mg/kg
 5
 ND

<u>Halogen</u>

Test Method: With reference to EN 14582: 2016, analysis was performed by IC.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
lodine (I)	mg/kg	50	ND

Polychlorinated Naphthalenes (PCNs)

Test Method: With reference to US EPA 8081B: 2007, analysis was performed by GC-MS

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
2-Chlorinated Naphthalene	mg/kg	5	ND
1,4-Dichlorinated Naphthalene	mg/kg	5	ND
1,5-Dichlorinated Naphthalene	mg/kg	5	ND
1,2-Dichlorinated Naphthalene	mg/kg	5	ND
1,8-Dichlorinated Naphthalene	mg/kg	5	ND
1,2,3-Trichlorinated Naphthalene	mg/kg	5	ND
1,2,3,4-Tetrachlorinated Naphthalene	mg/kg	5	ND
1,2,3,4,6-Pentachlorinated Naphthalene	mg/kg	5	ND
Octa-chlorinaed Naphthalene	mg/kg	5	ND
1-Chlorinated Naphthalene	mg/kg	5	ND

Organic-tin compounds

Test Method: With reference to ISO 17353: 2004, analysis was performed by GC-MS.



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Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Tributyl tin (TBT)	mg/kg	0.02	ND
Triphenyl tin (TPhT)	mg/kg	0.02	ND

Asbestos

With reference to NIOSH 9000:2015 and ISO 22262-1:2012. analysis was performed by X-ray Test Method: diffractometer (XRD) and Polarized light microscope (PLM).

<u>Test Item(s)</u> Actinolite	<u>CAS NO.</u> 77536-66-4	<u>Unit</u> %	MDL 0.1	<u>001</u> Negative
Amosite	12172-73-5	%	0.1	Negative
Anthophyllite	77536-67-5	%	0.1	Negative
Chrysotile	12001-29-5 132207-32-0	%	0.1	Negative
Crocidolite	12001-28-4	%	0.1	Negative
Tremolite	77536-68-6	%	0.1	Negative

Notes:

(1) Negative = the absence of asbestos, Positive = the presence of asbestos.

Alkanes C10-C13, chloro (short-chain chlorinated paraffins) (SCCP)

Test Method: With reference to ISO 18219: 2015, analysis was performed by GC-NCI-MS

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Short Chain Chlorinated Paraffin(C10-C13)(SCCP)	mg/kg	50	ND

VOC

Test Method: With reference to US EPA 5021A:2014, analysis was performed by HS-GC-MS.



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Test Item(s) Unit MDL 001 ND Trichloroethylene mg/kg 1

Polyvinyl chloride (PVC)

Test Method: In-house method (SHTC-CHEM-SOP-115-T), analysis was performed by FTIR/HATR.

Test Item(s) CAS NO. 001 Polyvinyl chloride (PVC) 9002-86-2 Negative

Notes:

(1) Negative=Undetectable, Positive=Detectable

Azo Dyes

Test Method: According to Ref. EN 14362-1:2012- Analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
4-Aminobiphenyl	92-67-1	mg/kg	5	ND
Benzidine	92-87-5	mg/kg	5	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND
2-naphthylamine	91-59-8	mg/kg	5	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND
4-chloroaniline	106-47-8	mg/kg	5	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND
4,4'-diaminodiphenylmethane	101-77-9	mg/kg	5	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND
3.3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND
3,3'-Dimethyl-4,4'-diaminodiphenylmethane /	838-88-0	mg/kg	5	ND
4,4'-methylenedi-o-toluidine				
p-cresidine	120-71-8	mg/kg	5	ND
4,4'-methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND



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Test Item(s)		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>	
4,4'-thiodianiline		139-65-1	mg/kg	5	ND	
o-toluidine		95-53-4	mg/kg	5	ND	
4-methyl-m-phenylenedia	mine / 2,4-Toluylendiamine	95-80-7	mg/kg	5	ND	
2,4,5-trimethylaniline		137-17-7	mg/kg	5	ND	
4-aminoazobenzene		60-09-3	mg/kg	5	ND	
O-Anisidine		90-04-0	mg/kg	5	ND	
2,4-Xylidine		95-68-1	mg/kg	5	ND	
2,6-Xylidine		87-62-7	mg/kg	5	ND	

Notes:

- (1) The EN 14362-1:2012 method will enable further cleavage of 4-aminoazobenzene to non-forbidden amines: aniline and 1,4-phenylenediamine. If aniline and/or 1,4-phenylenediamine is not found (i.e. 5mg/kg) by mentioned test method, test result for 4-aminoazobenzene (CAS no. 60-09-3) is considered as "not detected" (i.e. <5mg/kg). Otherwise, the test method of EN 14362-3:2012 will be employed to verify the presence of 4-aminoazobenzene.
- (2) For textiles no relevant amine exceeding 30 ppm (mg/kg) is required, the test method is only applicable for textile and the result is only for client's information.
- (3) Whenever 4-aminodiphenyl (CAS number 92-67-1), 2-naphylamine (CAS number 91-59-8) and 4-methoxy-m-phenylene-diamine (CAS number 615-05-4) is found, the use of banned azo colorants cannot be reliably ascertained without additional information, e.g. the chemical structure of the colorants used.
- (4) In case polyurethane materials are used, e.g. PU foams and coatings and in prints, it cannot be ruled out that certain amines, e.g. 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) and
- 2,4-toluylen-diamine (TDA, CAS number 95-80-7) are released from the PU component and not from a banned azo colorant.
- (5) In case of pigment prints care has to be taken that 4,4'-methylene-dianiline (MDA, CAS number 101-77-9) is not released from a source of banned azo colorants but from e.g. a chemical fixing agent.
- (6) These tests were subcontracted to SGS Changzhou Chemical lab.

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Glycol ether content

Test Method: With reference to US EPA method 3550C:2007. Analysis was performed by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
1,2-Dimethoxyethane (EGDME)	110-71-4	mg/kg	10	ND
2-Methoxyethanol (EGME)	109-86-4	mg/kg	10	ND
2-Ethoxyethanol (EGEE)	110-80-5	mg/kg	10	ND
2-methoxypropyl acetate (1PG2MEA)	70657-70-4	mg/kg	10	ND
2-Methoxyethyl acetate (EGMEA)	110-49-6	mg/kg	10	ND
2-Ethoxyethyl acetate (EGEEA)	111-15-9	mg/kg	10	ND



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Test Item(s)		CAS NO.	<u>Unit</u>	MDL	<u>001</u>
2-(2-Methoxyethoxy)Ethanol (DEGM	E)	111-77-3	mg/kg	10	ND
Bis(2-methoxy ethyl)ether(DEGDME)		111-96-6	mg/kg	10	ND
1,1-Di (2-methoxy ethoxy)ethane(TE	GDME)	112-49-2	mg/kg	10	ND

ODS

Test Method: With reference to US EPA 5021A:2014, analysis was performed by HS-GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	<u>001</u>
CFC				
CFC-11	75-69-4	μg/g	0.1	ND
CFC-12	75-71-8	μg/g	0.1	ND
CFC-113	76-13-1	μg/g	0.1	ND
CFC-114	76-14-2	μg/g	0.1	ND
CFC-13	75-72-9	μg/g	0.1	ND
CFC-111	354-56-3	μg/g	0.1	ND
CFC-112	76-11-9	μg/g	0.1	ND
CFC-112	76-12-0	μg/g	0.1	ND
CFC-113	354-58-5	μg/g	0.1	ND
CFC-114	374-07-2	μg/g	0.1	ND
CFC-115	76-15-3	μg/g	0.1	ND
CFC-211	422-78-6	μg/g	0.1	ND
CFC-212	661-96-1	μg/g	0.1	ND
CFC-213	1652-89-7	μg/g	0.1	ND
CFC-214	677-68-9	μg/g	0.1	ND
CFC-215	1599-41-3	μg/g	0.1	ND
CFC-215	76-17-5	μg/g	0.1	ND
CFC-216	661-97-2	μg/g	0.1	ND
CFC-216	1652-80-8	μg/g	0.1	ND
CFC-217	422-86-6	μg/g	0.1	ND
HCFC				
HCFC-21	75-43-4	μg/g	0.1	ND
HCFC-22	75-45-6	μg/g	0.1	ND
HCFC-123	306-83-2	μg/g	0.1	ND
HCFC-124	2837-89-0	μg/g	0.1	ND
HCFC-141b	1717-00-6	μg/g	0.1	ND
HCFC-142b	75-68-3	μg/g	0.1	ND
HCFC-31	593-70-4	μg/g	0.1	ND



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Test Report	No. SHAEC2205264801	Date: 07	Jun 2022	Page 9	of 29
Test Item(s)		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
HCFC-121		354-14-3	μg/g	0.1	ND
HCFC-122		354-21-2	μg/g	0.1	ND
HCFC-123a		354-23-4	μg/g	0.1	ND
HCFC-124a		354-25-6	μg/g	0.1	ND
HCFC-131		359-28-4	μg/g	0.1	ND
HCFC-131a		811-95-0	μg/g	0.1	ND
HCFC-132a		471-43-2	μg/g	0.1	ND
HCFC-132b		1649-08-7	μg/g	0.1	ND
HCFC-133a		75-88-7	μg/g	0.1	ND
HCFC-221		422-26-4	μg/g	0.1	ND
HCFC-222		422-30-0	μg/g	0.1	ND
HCFC-223		422-52-6	μg/g	0.1	ND
HCFC-225ca		422-56-0	μg/g	0.1	ND
HCFC-225cb		507-55-1	μg/g	0.1	ND
HCFC-226		431-87-8	μg/g	0.1	ND
HCFC-231		421-94-3	μg/g	0.1	ND
HCFC-232		460-89-9	μg/g	0.1	ND
HCFC-233		7125-84-0	μg/g	0.1	ND
HCFC-234		425-94-5	μg/g	0.1	ND
HCFC-235		460-92-4	μg/g	0.1	ND
HCFC-241		666-27-3	μg/g	0.1	ND
HCFC-242		460-63-9	μg/g	0.1	ND
HCFC-243		338-75-0	μg/g	0.1	ND
HCFC-244		679-85-6	μg/g	0.1	ND
HCFC-251		421-41-0	μg/g	0.1	ND
HCFC-252		819-00-1	μg/g	0.1	ND
HCFC-253		460-35-5	μg/g	0.1	ND
HCFC-261		7799-56-6	μg/g	0.1	ND
HCFC-261		420-97-3	μg/g	0.1	ND
HCFC-271		430-55-7	μg/g	0.1	ND
HCFC-262	•	102738-79-4	μg/g	0.1	ND
HCFC-262		420-99-5	μg/g	0.1	ND
Halon					
Halon 1211		353-59-3	μg/g	0.1	ND
Halon 1301		75-63-8	μg/g	0.1	ND
Halon 2402		124-73-2	μg/g	0.1	ND
HBFC					
CHF₂Br		1511-62-2	μg/g	0.1	ND



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Test Report	No. SHAEC2205264801	Date: 07	Jun 2022	Page 10	of 29
Test Item(s)		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
CH₂FBr		373-52-4	μg/g	0.1	ND
C₂HFBr₄			μg/g	0.1	ND
C₂HF₂Br₃			μg/g	0.1	ND
C₂HF₃Br₂		354-04-1	μg/g	0.1	ND
C₂HF₄Br			μg/g	0.1	ND
C₂H₂FBr₃			μg/g	0.1	ND
C ₂ H ₂ F ₂ Br ₂		75-82-1	μg/g	0.1	ND
C₂H₂F₃Br		421-06-7	μg/g	0.1	ND
C₂H₃FBr₂			μg/g	0.1	ND
C₂H₃F₂Br		359-07-9	μg/g	0.1	ND
C₂H₄FBr		762-49-2	μg/g	0.1	ND
C₃HFBr ₆			μg/g	0.1	ND
C₃HF₂Br₅			μg/g	0.1	ND
C₃HF₃Br₄			μg/g	0.1	ND
C₃HF₄Br₃			μg/g	0.1	ND
C₃HF₅Br₂			μg/g	0.1	ND
C₃HF₀Br			μg/g	0.1	ND
C₃H₂FBr₅			μg/g	0.1	ND
C ₃ H ₂ F ₂ Br ₄			μg/g	0.1	ND
C ₃ H ₂ F ₃ Br ₃			μg/g	0.1	ND
C ₃ H ₂ F ₄ Br ₂			μg/g	0.1	ND
C₃H₂F₅Br			μg/g	0.1	ND
C₃H₃FBr₄			μg/g	0.1	ND
C₃H₃F₂Br₃			μg/g	0.1	ND
C₃H₃F₃Br₂			μg/g	0.1	ND
C₃H₃F₄Br			μg/g	0.1	ND
C₃H₄FBr₃			μg/g	0.1	ND
C ₃ H ₄ F ₂ Br ₂			μg/g	0.1	ND
C₃H₄F₃Br			μg/g	0.1	ND
C₃H₅FBr₂			μg/g	0.1	ND
C₃H₅F₂Br			μg/g	0.1	ND
C₃H₅FBr			μg/g	0.1	ND
Others					
Dibromofluoromethane		1868-53-7	μg/g	0.1	ND
Methyl bromide		74-83-9	μg/g	0.1	ND
Bromochloromethane		74-97-5	μg/g	0.1	ND
HFC					
HFC-23		75-46-7	μg/g	0.1	ND



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Test Item(s)		CAS NO.	<u>. Unit</u>	<u>MDL</u>	<u>001</u>
HFC-32		75-10-5	μg/g	0.1	ND
HFC-41		593-53-3	μg/g	0.1	ND
HFC-43-10mee		-	μg/g	0.1	ND
HFC-125		354-33-6	μg/g	0.1	ND
HFC-134		359-35-3	μg/g	0.1	ND
HFC-134a		811-97-2	μg/g	0.1	ND
HFC-152a		75-37-6	μg/g	0.1	ND
HFC-143		420-46-2	μg/g	0.1	ND
HFC-143a		430-66-0	μg/g	0.1	ND
HFC-227ea		-	μg/g	0.1	ND
HFC-236cb		-	μg/g	0.1	ND
HFC-236ea		431-63-0	μg/g	0.1	ND
HFC-236fa		690-39-1	μg/g	0.1	ND
HFC-245ca		679-86-7	μg/g	0.1	ND
HFC-245fa		-	μg/g	0.1	ND
HFC-365mfc		-	μg/g	0.1	ND
PFC					
Perfluoromethane		75-73-0	μg/g	0.1	ND
Perfluoroethane		76-16-4	μg/g	0.1	ND
Perfluoropropane		76-19-7	μg/g	0.1	ND
Perfluorobutane		355-25-9	μg/g	0.1	ND
Perfluoropentane		678-26-2	μg/g	0.1	ND
Perfluorohexane		355-42-0	μg/g	0.1	ND
Perfluorocyclobutane		115-25-3	μg/g	0.1	ND
CHC					
1,3-dichloropropane		142-28-9	μg/g	0.1	ND
2,2-dichloropropane		594-20-7	μg/g	0.1	ND
Carbon tetrachloride		56-23-5	μg/g	0.1	ND
chloroethane		75-00-3	μg/g	0.1	ND
Chloroform		67-66-3	μg/g	0.1	ND
chloromethane		74-87-3	μg/g	0.1	ND
Cis-1,2-dichloroethene		156-59-2	μg/g	0.1	ND
Cis-1,3-dichloropropene		10061-01-5		0.1	ND
Hexachlorobutadiene		87-68-3	μg/g	0.1	ND
Methylene chloride		75-09-2	μg/g	0.1	ND
Tetrachloroethene		127-18-4	μg/g	0.1	ND
Trans-1,2-dichloroethene		156-60-5	μg/g	0.1	ND
Trans-1,3-dichloropropene		10061-02-6	μg/g	0.1	ND



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Test Report	No. SHAEC2205264801	Date: 07 Jun 2022		Page 12 of 29	
Test Item(s)		CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Trichloroethylene		79-01-6	μg/g	0.1	ND
1,1,1,2-tetrachloroethane		630-20-6	μg/g	0.1	ND
1,1,1-trichloroethane		71-55-6	μg/g	0.1	ND
1,1,2,2-tetrachloroethane		79-34-5	μg/g	0.1	ND
1,1,2-trichloroethane		79-00-5	μg/g	0.1	ND
1,1-dichloroethane		75-34-3	μg/g	0.1	ND
1,1-dichloroethene		75-35-4	μg/g	0.1	ND
1,1-dichloropropene		563-58-6	μg/g	0.1	ND
1,2,3-trichloropropane		96-18-4	μg/g	0.1	ND
1,2-dichloroethane		107-06-2	μg/g	0.1	ND
1,2-dichloropropane		78-87-5	μg/g	0.1	ND

Polychlorinated Biphenyls (PCBs)

Test Method: With reference to US EPA 8082A: 2007, analysis was performed by GC-MS

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	001
2,4,4'-Trichlorobiphenyl (PCB 28)	7012-37-5	mg/kg	0.5	ND
2,2',5,5'-Tetrachloro-biphenyl (PCB 52)	35693-99-3	mg/kg	0.5	ND
2,2',4,5,5'-Pentachloro-biphenyl (PCB 101)	37680-73-2	mg/kg	0.5	ND
2,3',4,4',5-Pentachlorobiphenyl (PCB 118)	31508-00-6	mg/kg	0.5	ND
2,2',3,4,4',5'-Hexachloro-biphenyl (PCB 138)	35065-28-2	mg/kg	0.5	ND
2,2',4,4',5,5'-Hexachloro-biphenyl (PCB 153)	35065-27-1	mg/kg	0.5	ND
2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB 180)	35065-29-3	mg/kg	0.5	ND

Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA)

Test Method: With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND
Perfluorooctanesulfonate (PFOS) ^	1763-23-1	mg/kg	10	ND
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	mg/kg	10	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	mg/kg	10	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	mg/kg	10	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol	24448-09-7	mg/kg	10	ND
(MeFOSE)				
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	10	ND



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Test Item(s) CAS NO. Unit **MDL** 001 Perfluorooctanoic Acid (PFOA) and its salts+ ND mg/kg 10

Notes:

(1) + PFOA refer to its salts including PFOA-Na (CAS No.: 335-95-5), PFOA-K (CAS No.: 2395-00-8), PFOA-Ag (CAS No.: 335-93-3), PFOA-F (CAS No.: 335-66-0) and APFO (CAS No.: 3825-26-1); (2) ^ PFOS including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH4 (CAS No.: 29081-56-9), PFOS-NH(OH)2 (CAS No.: 70225-14-8), PFOS-N(C2H5)4 (CAS No.: 56773-42-3), PFOS-DDA(CAS No.:251099-16-8) and POSF (CAS No.: 307-35-7)

VOC

Test Method: With reference to US EPA Method 8260D: 2018 & US EPA Method 5000: 1996, analysis was performed by GC-MS.

Test Item(s) CAS NO. Unit **MDL** 001 1,4-dioxane 123-91-1 mg/kg 5 ND

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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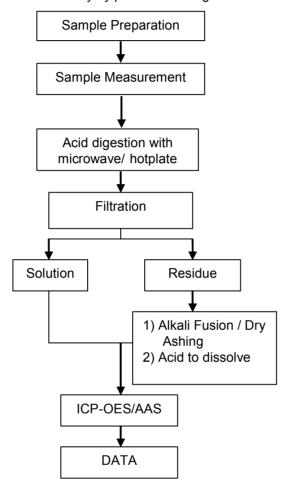
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Elements (IEC62321) Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart.





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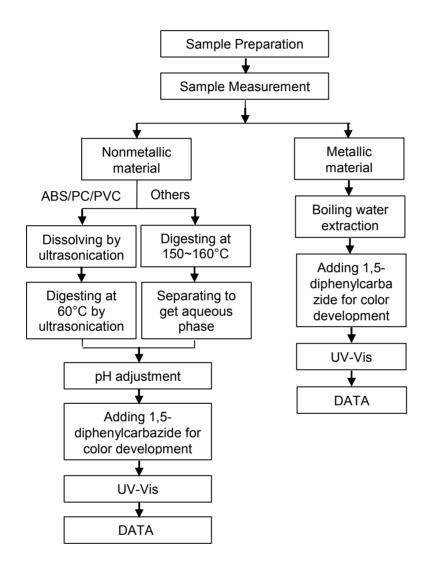
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ATTACHMENTS

Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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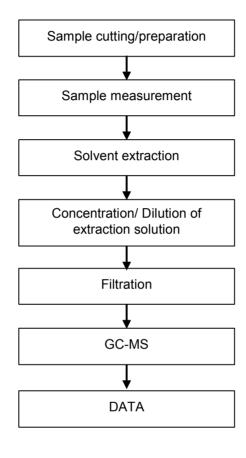


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PBBs/PBDEs Testing Flow Chart





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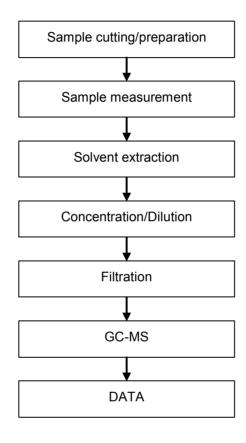
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Phthalates Testing Flow Chart





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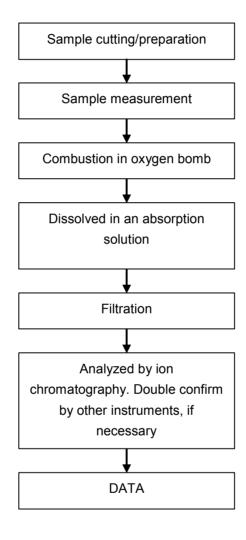
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Halogen Testing (oxygen bomb) Flow Chart





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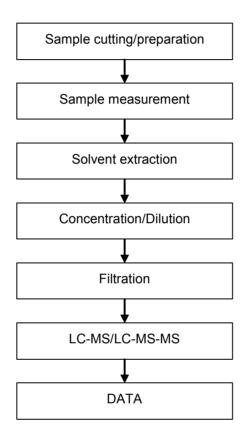
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PFASs/ PFOS/PFOA Testing Flow Chart





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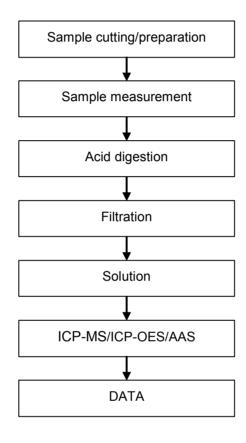


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Elements Testing Flow Chart





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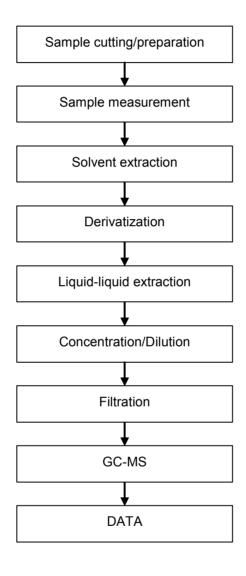


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Organotin Testing Flow Chart





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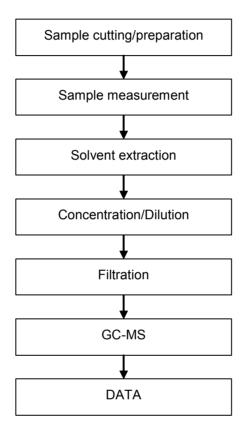


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PCB Testing Flow Chart





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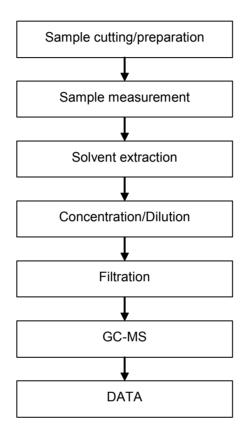


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PCN Testing Flow Chart





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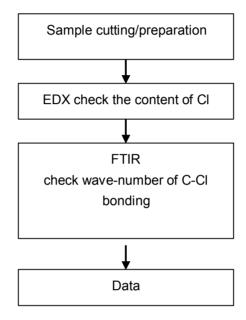


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PVC Testing Flow Chart





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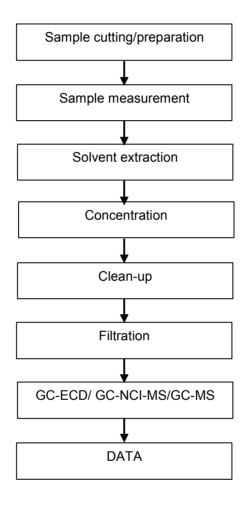
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Chlorinated Paraffin Testing Flow Chart





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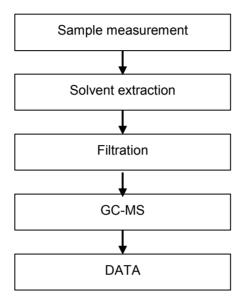
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VOC Testing Flow Chart





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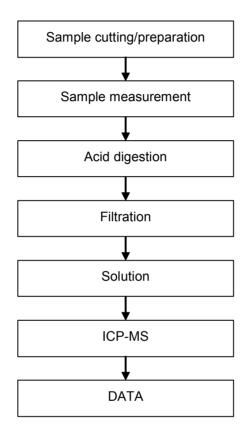
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Elements Testing Flow Chart





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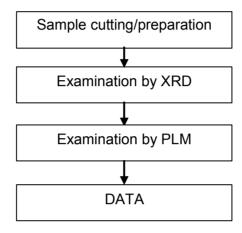


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Asbestos Testing Flow Chart





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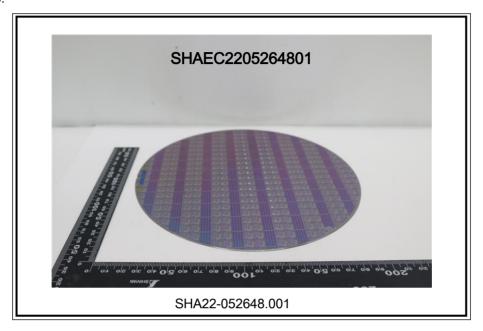


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