

Test Report

No. SHAEC2100365501

Date: 13 Jan 2021

Page 1 of 14

Silergy Corp.

Oleander Way, 802 West Bay Road, P.O. Box 32052, Grand Cayman KY1-1208, Cayman Islands

The following sample(s) was/were submitted and identified on behalf of the clients as : Surface Mounted Electric Component

SGS Job No. : SP21-000250 - SH

Model No. : SOP8

Client Ref. Information : See the attachment

Date of Sample Received : 07 Jan 2021

Testing Period : 07 Jan 2021 - 13 Jan 2021

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

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

Test Results : 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.

Lucy Yu

Lucy Yu

Approved Signatory

scan to see the report



SHAEC2100365501



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center (China) Co., Ltd.

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Test Report

No. SHAEC2100365501

Date: 13 Jan 2021

Page 2 of 14

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-003655.001	Black body with silvery pin

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, UV-Vis and GC-MS.

Test Item(s)	Limit	Unit	MDL	001
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 Report

No. SHAEC2100365501

Date: 13 Jan 2021

Page 3 of 14

<u>Test Item(s)</u>	<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.
- (3) The restriction of DEHP, BBP, DBP and DIBP shall not apply to toys which are already subject to the restriction of DEHP, BBP, DBP and DIBP through entry 51 of Annex XVII to Regulation (EC) No 1907/2006.

Halogen

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

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

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND



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Test Report

No. SHAEC2100365501

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Page 4 of 14

Test Item(s)	CAS NO.	Unit	MDL	001
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 (MeFOSE)	24448-09-7	mg/kg	10	ND
Perfluorooctane Sulfonamide (PFOSA)	754-91-6	mg/kg	10	ND
Perfluorooctanoic Acid (PFOA) and its salts+	-	mg/kg	10	ND

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)

Polycyclic aromatic hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

Test Item(s)	Unit	MDL	001
Benzo(a)pyrene(BaP)	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	mg/kg	0.1	ND
Benzo(b)fluoranthene(BbF)	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	mg/kg	0.1	ND
Benzo(k)fluoranthene(BkF)	mg/kg	0.1	ND
Chrysene(CHR)	mg/kg	0.1	ND
Dibenzo(a,h)anthracene(DBA)	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	mg/kg	0.1	ND
Phenanthrene(PHE)	mg/kg	0.1	ND
Pyrene(PYR)	mg/kg	0.1	ND
Anthracene(ANT)	mg/kg	0.1	ND
Fluoranthene(FLT)	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	mg/kg	-	ND
Naphthalene(NAP)	mg/kg	0.1	ND
Sum of 15 PAHs	mg/kg	-	ND



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AfPS (German commission for Product Safety) : PAHs requirements

Parameter Unit : mg/kg	Category 1	Category 2		Category 3	
	Materials intended to be placed in the mouth, or materials coming into long-term contact with skin (more than 30s) during the intended use -in toys according to Directive 2009/48/EC or -for the use by children ^{a,b} up to 3 years of age.	a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(j)fluoranthene (BjF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY)	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT)	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP)	< 1	< 2		< 10	
Sum of 15 PAHs	< 1	< 5	< 10	< 20	< 50

Note:

^a A "Child" is legally defined as a person before reaching the age of 14 years.

^b Use by children includes both active and passive contact by children.

^c Definition "short-term repetitive contact" taken from REACH Annex XVII entry 50 amendment (Regulation (EC) No. 1272/2013)

^d According to the definition of the German Product Safety Act (ProdSG) (chapter 1 Article 2 No. 28) "foreseeable use" shall mean the use of a product in a manner that the person placing it on the market, has not intended, but which could be reasonably foreseeable.

Remark: The German committee on Product Safety (AfPS) published a new PAHs document (AfPS GS 2019:01 PAK) on April 10, 2020, which will be binding for the issue of GS mark certificate from July 1, 2020.



Attachment

AQFN6×6 BGA3.5×4.5 COF4865 COMBO3.94×2.36×1.35 COMBO4.94×3.36×2.35 CPC8
CSP0.78×0.78 CSP0.79×0.79 CSP0.9×0.9 CSP1.32×1.86 CSP1.43×0.89 CSP1.5×1
CSP1.50×1.64 CSP1.54×0.90 CSP1.56×1.96 CSP1.6×0.9 CSP1.62×2.36 CSP1.65×0.85
CSP1.65×1.25 CSP1.66×1.61 CSP1.73×1.73 CSP1.79×1.46 CSP1.79×1.57 CSP1.92×1.92
CSP1.93×2.05 CSP10×9 CSP2×1.8 CSP2×1.8 CSP2.0×2.5 CSP2.1×1.65 CSP2.2×2.565
CSP2.23×1.73 CSP2.35×2.75 CSP2.38×2.70 CSP2.4×2.4 CSP2.42×2.82 CSP2.43×1.77
CSP2.53×2.53 CSP2.57×3.71 CSP2.60×2.68 CSP2.64×1.48 CSP2.64×3.94 CSP2.66×3.89
CSP2.67×1.51 CSP2.8×2.4 CSP2.8×2.8 CSP2.93×2.73 CSP2.94×2.51 CSP2.94×3.32
CSP3×2.6 CSP3.0×3.2 CSP3.03×3.34 CSP3.15×3.5 CSP3.16×4.16 CSP3.23×3.23
CSP3.35×3.5 CSP3.52×1.66 CSP3.6×9.056 CSP3.63×3.63 CSP3.65×3.2 CSP4.03×4.66
CSP4.06×4.47 CSP4.12×4.49 CSP4.97×4.45 CSP5×5 CSP6×6 CSP6×9 CSP6.07×2.52
DFN0.6×0.3 DFN1.0×0.6 DFN1.1×0.85 DFN1.1×0.9 DFN1.2×1.2 DFN1.2×1.6 DFN1.25×1
DFN1.3×0.8 DFN1.3×0.9 DFN1.45×1 DFN1.5×0.9 DFN1.5×1 DFN1.5×1.5 DFN1.6×1.0
DFN2×1 DFN2×1.5 DFN2×2 DFN2×3 DFN2.5×1.0 DFN2.5×1.5 DFN2.5×2 DFN2.5×2.5
DFN2.5×4 DFN3×1.5 DFN3.3×1.35 DFN3×2 DFN3×3 DFN3.3×3.3 DFN3.8×1.0 DFN4×2.5 DFN4×3 DFN4×4
DFN4×1.6 DFN4×2 DFN4.1×2.0 DFN5×5 DFN5×6 DFN5.5×1.5 DFN7×7 DIP7 DIP8 DIP16 DIP18 DIP46-3PIN
D-SMD HDIP12
GEM2021 GEM2928 FBP1.0×0.6 LGA2.5×2.5 LGA3.8×5.4 LGA5×6 LGA5.5×6.5
LQFP10×10 LQFP14×140 LQFP7×78
MDFN2.5×2 MQFN2×3 MQFN2.8×3 MQFN3×4 MQFN5×5 MSOP10 MSOP8 MSOP8E
ODFN2×2×0.7L QFN1.4×1.8 QFN1.5×1.5 QFN1.5×2 QFN1.6×1.6 QFN10×10 QFN2×1.5
QFN2×2.5 QFN2×2 QFN2×3 QFN2.5×2.5 QFN2.5×3 QFN3×3 QFN3×4 QFN3×5
QFN3.5×3.5 QFN3.5×4.5 QFN3.5×4 QFN4×3 QFN4×4 QFN4×5 QFN4×6 QFN4.5×5
QFN5×11 QFN5×5 QFN5×6 QFN5×7.5 QFN5×7 QFN5×8 QFN5.5×4 QFN6×6 QFN7×7 QFN7×8 QFN8×7 QFN8×
8 QFN8×9 QFN9×8 QFN9×9 P-DIP6 PLCC-3528
SL-SMD3013SMB SMC SMD0805 SMD1206 SMD1417 SMD2015 SMD2024
SMD2515 SMD2814 SMD3120 SOD3 SOD123 SOD-323 SOD523 SOP4 SOP7 SOP8 SOP8E SOP10 SOP14
SOP16 SOP16E SOP20 SOP24 SOT223 SOT-23 SOT23-3 SOT23-5 SOT23-6 SOT3 SOT-323 SOT33
SOT-335 SOT-336 SOT353 SOT363
SOT-563 SOT89-3 SSOP10 SSOP16 SOP20 SSOP24 SSOP24E SSOP28 SSOP9
TO220-3 TO252-3 TO263-5 TO92-3 TQFP10×10-64E TQFP7×7-48E TSOT23-5 TSOT23
TSSOP8 TSSOP14 TSSOP16 TSSOP16E TSSOP20E TSSOP24E TSSOP28E TSSOP30
2ΦRadial-2L 3ΦRadial-2L 5ΦRadial-2L



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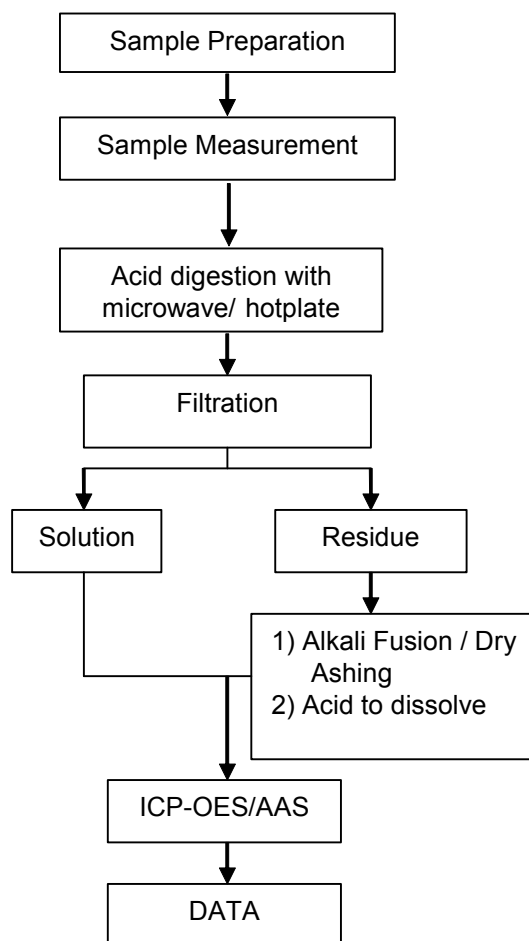
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Elements (IEC62321) Testing Flow Chart

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

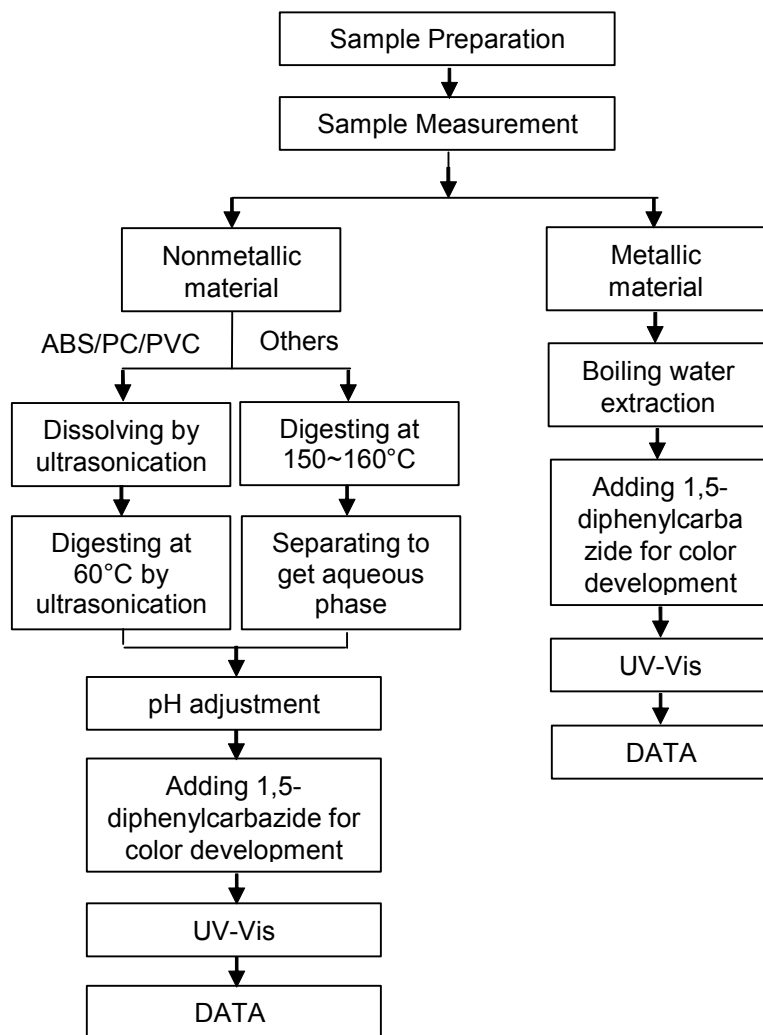


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart

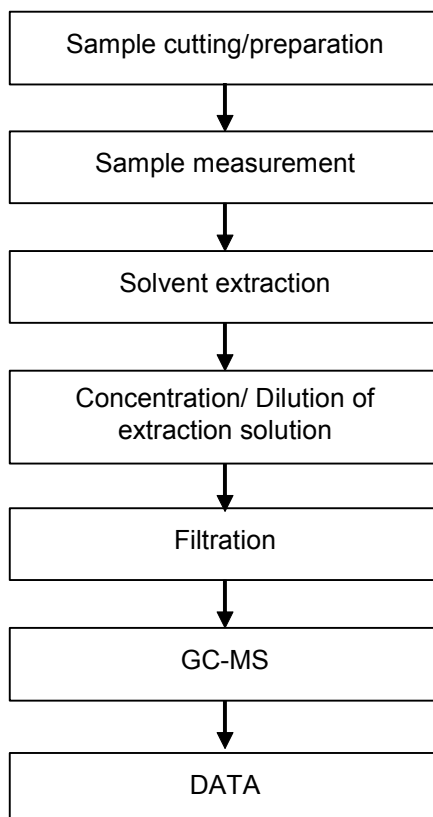


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PBBs/PBDEs Testing Flow Chart



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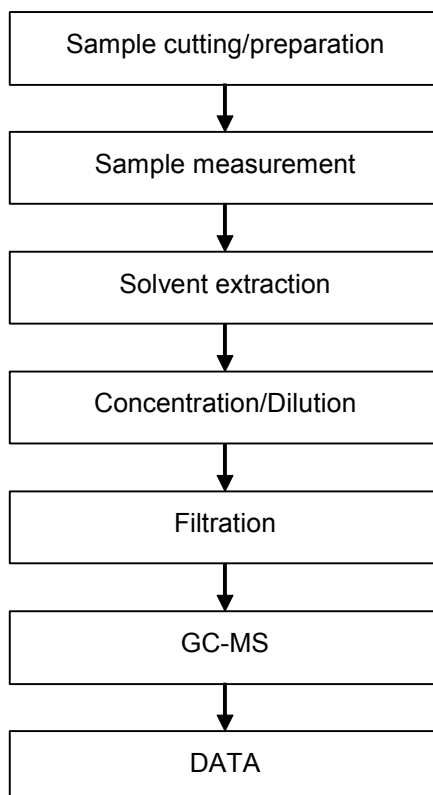
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Phthalates Testing Flow Chart

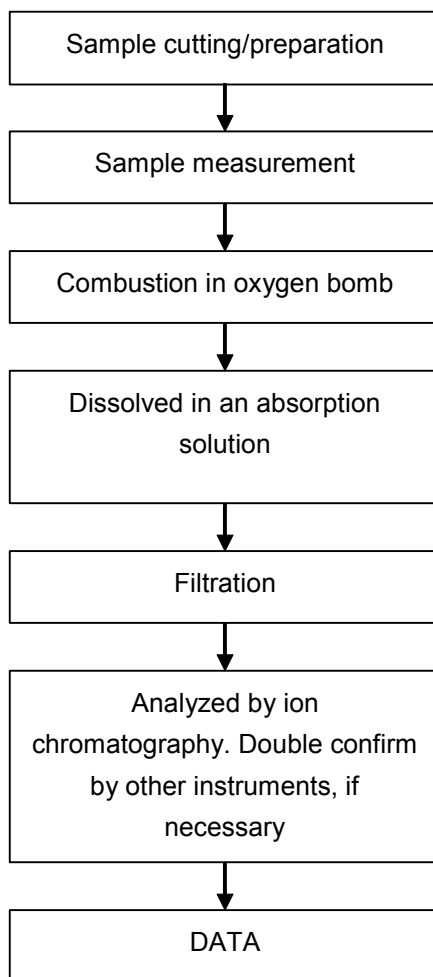


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Halogen Testing (oxygen bomb) Flow Chart

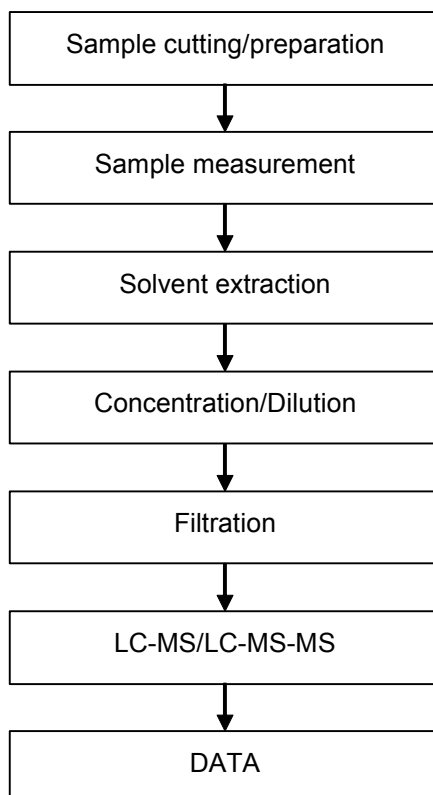


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PFASs/ PFOS/PFOA Testing Flow Chart

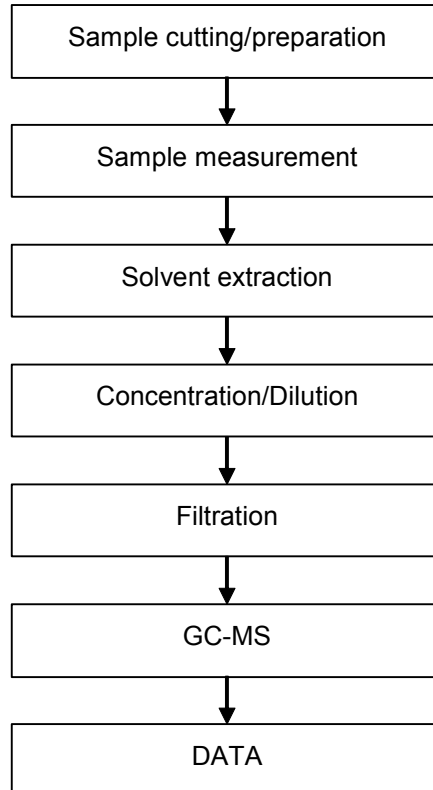


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PAHs Testing Flow Chart



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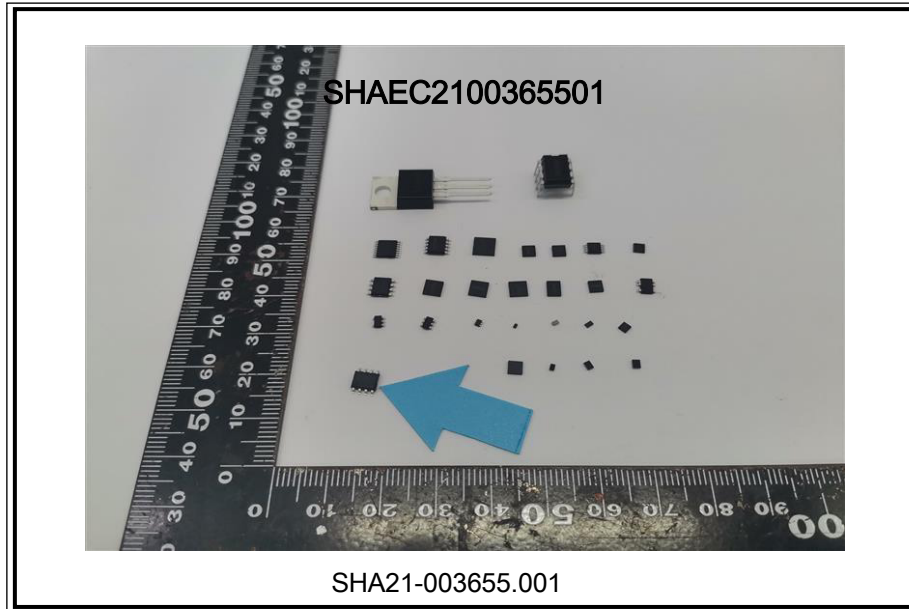
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