

Test Report

No.: SHAEC22005080101_1

Date: Jan 10, 2023

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Client Name: Silergy Corp.

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

Sample Name: Surface Mounted Electric Component

Model No.: QFN5x5

Client Ref. Information: BGA/COF/COMBO/CPC/CSP/DFN/DIP/HDIP/GEM/LQFP/LGA/MDFN/MQFN/QFN/MSOP/PLCC/SMB/SMC/SMD/SOD/SOP/SOT/SSOP/TO92/TO220/TO220F/TO252/TO263/TQFP/TSOP/TSSOP/TSOT See the attachment

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

THIS REPORT IS TO SUPERSEDE TEST REPORT NO.SHAEC22005080101, DATE: Jan 02, 2023.

SGS Job No.: SP22-030711

Sample Receiving Date: Dec 20, 2022

Testing Period: Dec 20, 2022 - Jan 02, 2023

Test Requested: Select 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).

Test Requirement	Conclusion
Halogen	See Results
EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Dibutyl phthalate (DBP), Butyl benzyl phthalate (BBP), Bis(2-ethylhexyl) phthalate (DEHP), and Diisobutyl phthalate (DIBP)	Pass
Perfluorooctanesulfonate (PFOS) and its derivatives and Perfluorooctanoic Acid (PFOA).	See Results
Polycyclic Aromatic Hydrocarbons (PAHs)	See Results

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

Sue Sheng
Approved Signatory

scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	SHA22-0050801-0001.C001	Black body with silvery pin

Remarks:

- (1) 1 mg/kg = 1 ppm = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) “-“ = Not Regulated

Halogen

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

Test Item(s)	Unit(s)	MDL	A1
Fluorine(F)	mg/kg	50	ND
Chlorine(Cl)	mg/kg	50	ND
Bromine(Br)	mg/kg	50	ND
Iodine(I)	mg/kg	50	ND

EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU- Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Dibutyl phthalate (DBP), Butyl benzyl phthalate (BBP), Bis(2-ethylhexyl) phthalate (DEHP), and Diisobutyl phthalate (DIBP)

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

Test Item(s)	Limit	Unit(s)	MDL	A1
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
Polybromobiphenyl (PBBs)	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	-	mg/kg	5	ND
Dibromobiphenyl (DiBB)	-	mg/kg	5	ND
Tribromobiphenyl (TriBB)	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	-	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	-	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	-	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	-	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	-	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	-	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	-	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	1000	mg/kg	-	ND
Monobromodiphenylether (MonoBDE)	-	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	-	mg/kg	5	ND
Tribromodiphenylether (TriBDE)	-	mg/kg	5	ND



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Test Item(s)	Limit	Unit(s)	MDL	A1
Tetrabromodiphenylether (TetraBDE)	-	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	-	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	-	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	-	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	-	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	-	mg/kg	5	ND
Dibutyl Phthalate(DBP)	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	1000	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	1000	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	1000	mg/kg	50	ND

Notes:

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
- (2) IEC 62321 series is equivalent to EN 62321 series.
- (3) 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.

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.	Unit(s)	MDL	A1
Perfluorooctane sulfonates (PFOS) and its derivatives	-	mg/kg	-	ND
Perfluorooctanesulfonic acid (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)	CAS No.	Unit(s)	MDL	A1
Benzo(a)pyrene(BaP)	50-32-8	mg/kg	0.1	ND
Benzo(e)pyrene(BeP)	192-97-2	mg/kg	0.1	ND
Benzo(a)anthracene(BaA)	56-55-3	mg/kg	0.1	ND
Benzo(b)Fluoranthene(BbF)	205-99-2	mg/kg	0.1	ND
Benzo(j)fluoranthene(BjF)	205-82-3	mg/kg	0.1	ND



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Test Item(s)	CAS No.	Unit(s)	MDL	A1
Benzo(k)Fluoranthene(BkF)	207-08-9	mg/kg	0.1	ND
Chrysene(CHR)	218-01-9	mg/kg	0.1	ND
Dibenzo(a,h)Anthracene(DBA)	53-70-3	mg/kg	0.1	ND
Benzo(g,h,i)perylene(BPE)	191-24-2	mg/kg	0.1	ND
Indeno(1,2,3-c,d)pyrene(IPY)	193-39-5	mg/kg	0.1	ND
Phenanthrene(PHE)	85-01-8	mg/kg	0.1	ND
Pyrene(PYR)	129-00-0	mg/kg	0.1	ND
Anthracene(ANT)	120-12-7	mg/kg	0.1	ND
Fluoranthene(FLT)	206-44-0	mg/kg	0.1	ND
Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT)	-	mg/kg	-	ND
Naphthalene(NAP)	91-20-3	mg/kg	0.1	ND
Sum of 15 PAHs	-	mg/kg	-	ND
Material Category	-	-	-	-

Notes:

AfPS (German commission for Product Safety) : PAHs requirements

Parameter	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.	Materials not covered by category 1, coming into long-term contact (more than 30s) or short-term repetitive contact ^c with skin during the intended or foreseeable use ^d .		Materials covered neither by category 1 nor by category 2, coming into short-term contact (up to 30s) with skin during the intended or foreseeable use.	
		a. use by children	b. other consumer products	a. use by children	b. other consumer products
Benzo(a)pyrene (BaP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(e)pyrene (BeP) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(a)anthracene (BaA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(b)fluoranthene (BbF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1



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Benzo(j)fluoranthene (BjF) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(k)fluoranthene (BkF)mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Chrysene (CHR) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Dibenzo(a,h)anthracene (DBA) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Benzo(g,h,i)perylene (BPE) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Indeno(1,2,3-cd)pyrene (IPY) mg/kg	< 0.2	< 0.2	< 0.5	< 0.5	< 1
Phenanthrene (PHE), pyrene (PYR), anthracene (ANT), fluoranthene (FLT), mg/kg	< 1 Sum	< 5 Sum	< 10 Sum	< 20 Sum	< 50 Sum
Naphthalene (NAP) mg/kg	< 1	< 2		< 10	
Sum of 15 PAHs	<1	< 5	< 10	< 20	< 50

Notes:

- ^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.

This report updates Model No., Client Ref. Information.

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.

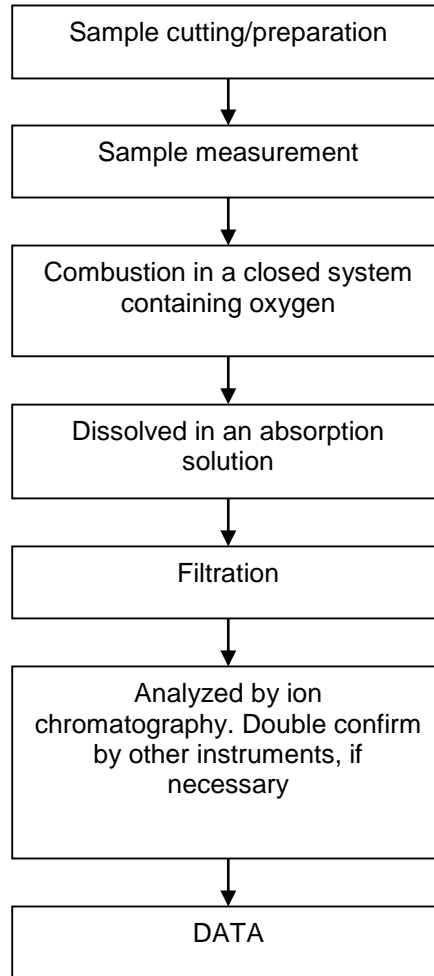


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Halogen Testing Flow Chart



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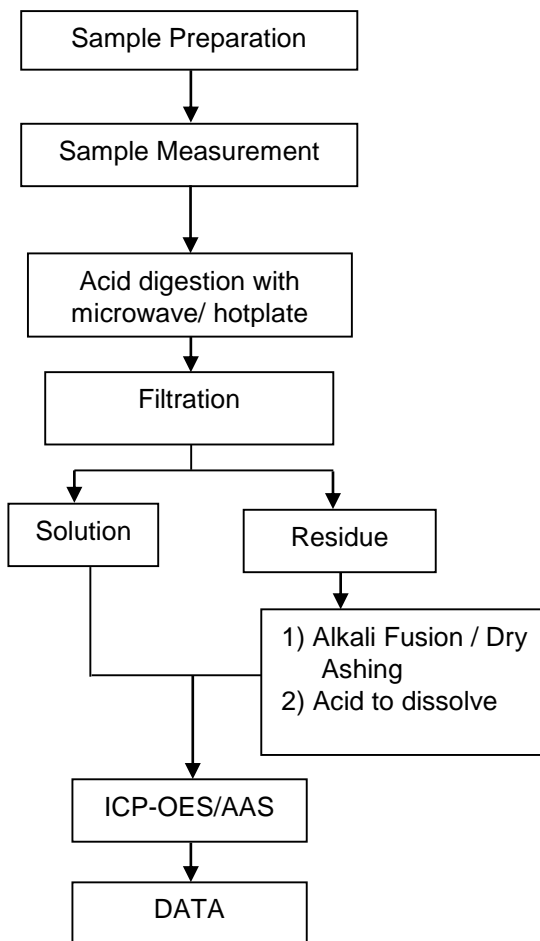
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Elements (IEC62321) Testing Flow Chart

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



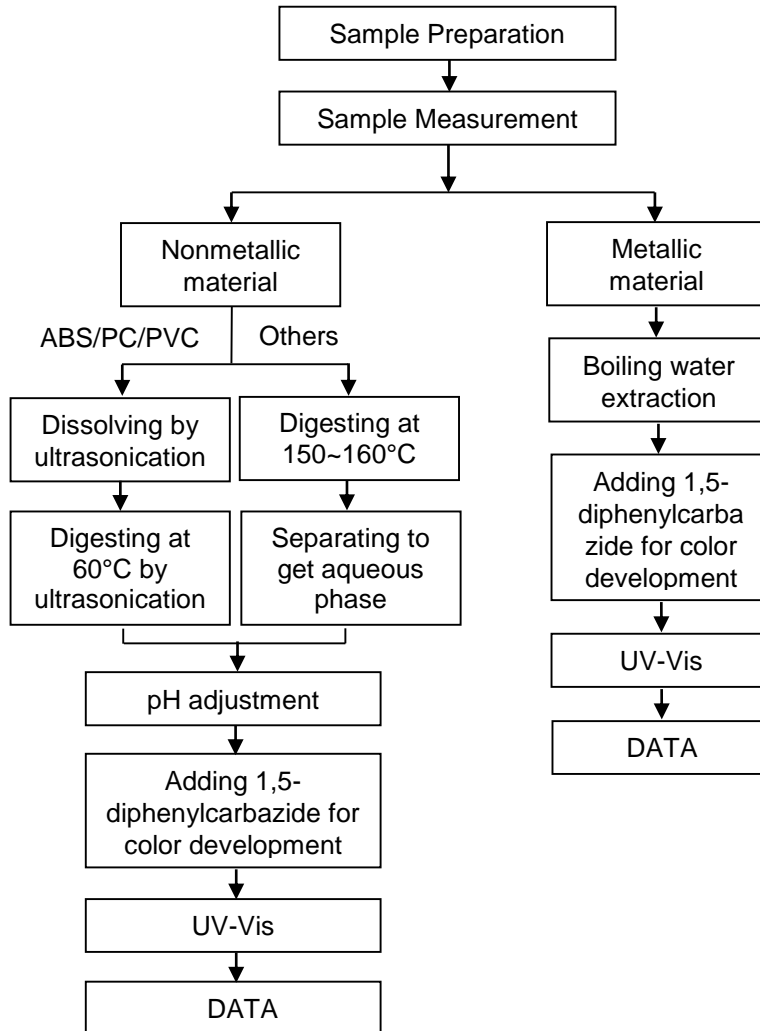
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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



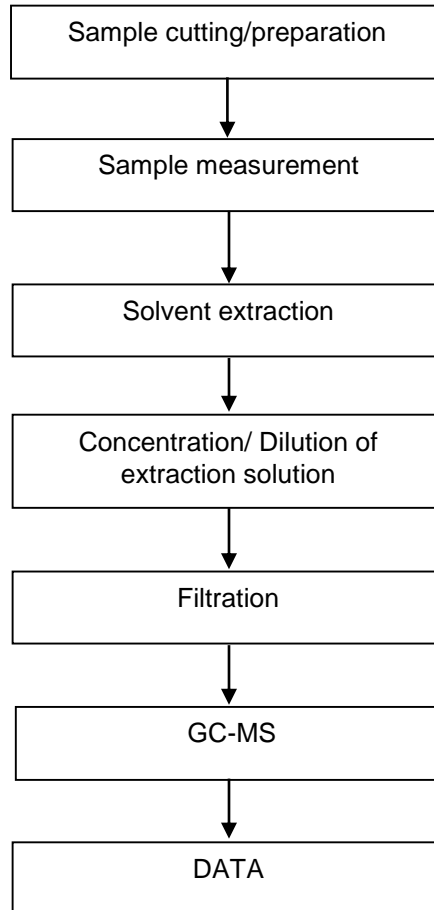
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PBBs/PBDEs Testing Flow Chart

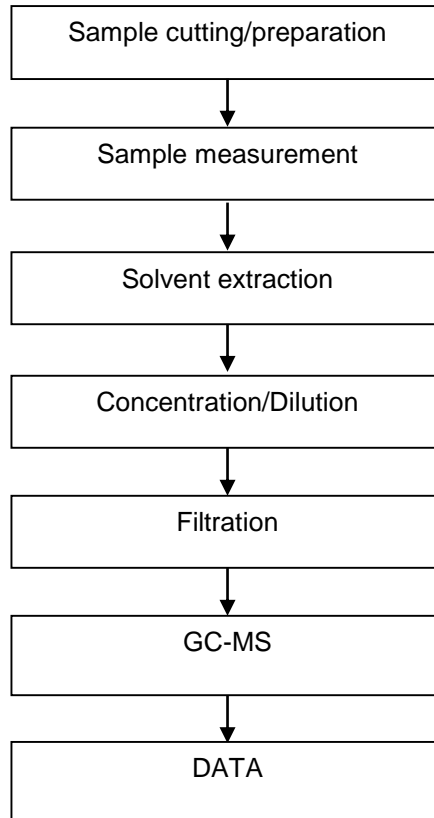


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Phthalates Testing Flow Chart



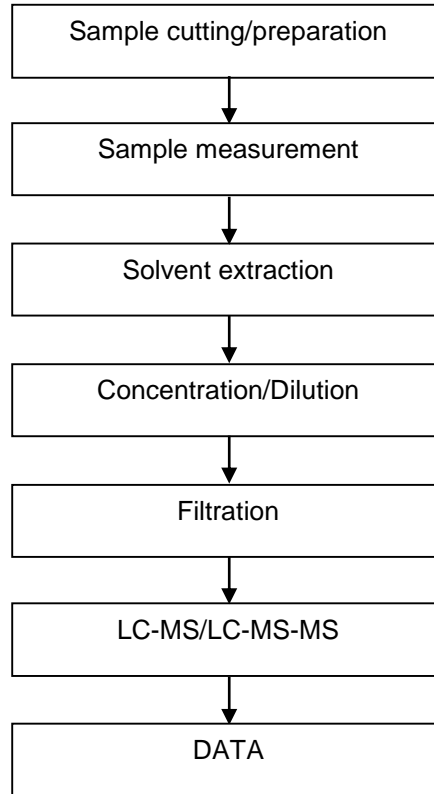
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PFASs/ PFOS/PFOA Testing Flow Chart



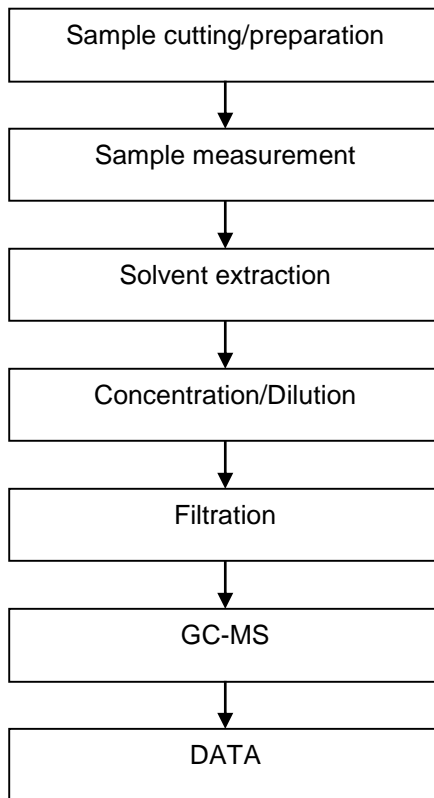
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PAHs Testing Flow Chart



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Test Report

No.: SHAEC22005080101_1

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Attachment:

AQFN6x6 BGA3.5x4.5 COMBO3.94x2.36x1.35 COMBO4.94x3.36x2.35 CPC5 CPC8
 CSP0.76x0.76 CSP0.78x0.78 CSP0.79x0.79 CSP0.9x0.9 CSP1.29*1.25 CSP1.31*1.31 CSP1.32x1.86
 CSP1.338*0.838 CSP1.35*2.15 CSP1.39*1.68 CSP1.41*1.70 CSP1.43x0.89 CSP1.5x1 CSP1.50x1.64
 CSP1.54x0.90 CSP1.56x1.96 CSP1.6x0.9 CSP1.6*2 CSP1.62x2.36 CSP1.65x0.85 CSP1.65x1.25
 CSP1.66x1.61 CSP1.73x1.73 CSP1.79x1.46 CSP1.79x1.57 CSP1.79*2.01 CSP1.92x1.92 CSP1.93x2.05
 CSP2.0x1.8 CSP2.0x2.5 CSP2.1x1.65 CSP2.2x2.565 CSP2.23x1.73 CSP2.35x2.75 CSP2.38x2.70 CSP2.4x2.4
 CSP2.42x2.82 CSP2.43x1.77 CSP2.44*2.44 CSP2.53x2.53 CSP2.57x3.71 CSP2.6*2.6 CSP2.60x2.68
 CSP2.605*2.605 CSP2.615*2.615 CSP2.64x1.48 CSP2.64x3.94 CSP2.66x3.89 CSP2.67x1.51 CSP2.67*2.67
 CSP2.68*2.68 CSP2.8x2.4 CSP2.8x2.8 CSP2.93x2.73 CSP2.94x2.51 CSP2.94x3.32 CSP3x2.6
 CSP3.0x3.2 CSP3.03x3.34 CSP3.08*3.30 CSP3.15*2.75 CSP3.15x3.5 CSP3.16x4.16 CSP3.2*2.8 CSP3.23x3.23
 CSP3.3*3.3 CSP3.35x3.5 CSP3.52x1.66 CSP3.55*3.50 CSP3.6x9.05 CSP3.63x3.63 CSP3.65x3.2 CSP3.65*3.65
 CSP4.03x4.66 CSP4.06x4.47 CSP4.12x4.49 CSP4.13x4.13 CSP4.2x4.2 CSP4.21x4.21 CSP4.82x3.62
 CSP4.97x4.45 CSP5x5 CSP6x6 CSP6x9 CSP6.07x2.52 CSP10x9
 DFN0.4x0.2 DFN0.6x0.3 DFN1.0x0.6 DFN1.1x0.85 DFN1.1x0.9 DFN1.2x1.2 DFN1.2x1.6 DFN1.25x1 DFN1.3x0.8
 DFN1.3x0.9 DFN1.45x1.0 DFN1.5x0.9 DFN1.5x1 DFN1.5x1.5 DFN1.6x1.0 DFN1.6x1.2 DFN1.7*1.35 DFN1.8*1.4
 DFN2x1 DFN2x1.5 DFN2x2 DFN2x3 DFN2.1*1.8 DFN2.5x1.0 DFN2.5*1.35 DFN2.5x1.5 DFN2.5x2 DFN2.5x2.5
 DFN2.5x3 DFN2.5x4 DFN3x1.5 DFN3x2 DFN3x3 DFN3.3x1.35 DFN3.3x3.3 DFN3.8x1.0 DFN4x2.5 DFN4x3
 DFN4x4 DFN4x4.5 DFN4x5 DFN4.1x2.0 DFN5x5 DFN5x6 DFN5.5x1.5 DFN6.5*7.0 DFN7x7 DFN7x10
 DIP7 DIP8 DIP16 DIP18 D-SMD D-SMD2520 HDIP12 GEM2021 GEM2928 LGA2.5x2.5 LGA3.8x5.4 LGA4*6
 LGA5x6 LGA5.5x6.5 LGA6*6 LQFP7x7 LQFP10x10 LQFP12x12 LQFP14x14 LQFP20x20 LQFP24x24
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 MQFN5x5 MQFN5x6 MQFN5.5*9.2 MQFN7x7 MQFN7.1x8 MQFN11.3x7.5 MSOP10 MSOP8 MSOP8E
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 QFN3x3 QFN3x4 QFN3x5 QFN3.3*4.8 QFN3.4*5.68 QFN3.5x3.5 QFN3.5x4 QFN3.5x4.5 QFN4x3 QFN4x4
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 QFN10x10 QFN12x8
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 SOP7 SOP8 SOP14 SOP16 SOP20 SOP24 SOP8E SOP16E SOP14W SOP16W SOT23 SOT33 SOT89
 SOT143 SOT223 SOT235 SOT236 SOT323 SOT335 SOT336 SOT363 SOT523 SOT563 SSOP9 SSOP10
 SSOP16 SSOP20 SSOP24 SSOP28 SSOP32 SSOP14E SSOP18E SSOP24E
 TO92 TO220 TO252 TO263 TO220F TQFP7x7-48E TQFP10x10-64E TSOP14E TSSOP8 TSSOP14
 TSSOP16 TSSOP24 TSSOP28 TSSOP30 TSSOP38 TSSOP14E TSSOP16E TSSOP20E TSSOP24E TSSOP28E
 TSOT23
 2ΦRadial-2L 3ΦRadial-2L 5ΦRadial-2L



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