

Test Report

No. CANMLC2300552402

Date: 08 Feb 2023

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Client Name :

Client Address CHIPING AREA, LIAOCHENG CITY, SHANDONG PROVINCE, CHINA

Sample Name : SPC flooring

Specification : 1220*184*4mm

Manufacturer :

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

SGS Job No. : GZIN2301000074CM - GZ

SGS Ref No. : SHIN2301000046CM, QDIN2301000025PL01

Date of Sample Received : 10 Jan 2023

Testing Period : 10 Jan 2023 - 01 Feb 2023

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).

Result Summary :

Test Requested	Conclusion
BS EN 14041 : 2018-PBDEs	PASS
BS EN 14041 : 2018- Pentachlorophenol (PCP)	PASS
BS EN 14041 : 2018- Elementary Analysis	PASS
BS EN 14041 : 2018- Dimethyl fumarate (DMFu)	PASS
BS EN 14041 : 2018-Phthalates	PASS
BS EN 14041 : 2018- Chlorinated Paraffins	PASS
BS EN 14041 : 2018- Polycyclic Aromatic Hydrocarbons (PAHs)	PASS
BS EN 14041 : 2018- Organotin Compounds	PASS
BS EN 14041 : 2018- Perfluorooctanoic acid (PFOA) and its salts	PASS
BS EN 14041 : 2018-AZO Dyes	See Results
BS EN 14041 : 2018- AZO Dyes	See Results
BS EN 14041 : 2018- AZO Dyes	See Results



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Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Coral Qiu

Coral Qiu

Approved Signatory

scan to see the report



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Test Result(s) :

Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	CAN23-005524.001	Grey board with beige surface

Remarks :

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

BS EN 14041 : 2018-PBDEs

Test Method : With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Pentabromodiphenyl ether	1000	mg/kg	5	ND
Octabromodiphenyl ether	1000	mg/kg	5	ND
Decabromodiphenyl ether	1000	mg/kg	5	ND
Comment	PASS.			

Notes :

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25

BS EN 14041 : 2018- Pentachlorophenol (PCP)

Test Method : With reference to BS EN 14041:2018 Annex B & EN12673:1999, analysis was performed by GC-ECD / GC-MS.

Test Item(s)	Limit	Unit	MDL	001
Pentachlorophenol (PCP)	5	mg/kg	0.1	ND
Comment	PASS.			

BS EN 14041 : 2018- Elementary Analysis

Test Method : With reference to EN1122:2001, analysis was performed by AAS / ICP-OES.



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Test Item(s)	Limit	Unit	MDL	001
Cadmium (Cd).	100	mg/kg	5	ND
Lead (Pb).	1000	mg/kg	20	ND
Comment				PASS.

BS EN 14041 : 2018- Dimethyl fumarate (DMFu)

Test Method : With reference to ISO 16186:2021, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Dimethyl fumarate(DMFu) .	624-49-7	1000	mg/kg	0.1	ND
Comment					PASS.

BS EN 14041 : 2018-Phthalates

Test Method : With reference to BS EN 14041:2018 Annex F, analysis was performed by GC-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Dibutyl Phthalate (DBP)	84-74-2	-	mg/kg	50	ND
Benzylbutyl Phthalate (BBP)	85-68-7	-	mg/kg	50	ND
Di(2-ethylhexyl)phthalate(DEHP)	117-81-7	-	mg/kg	50	ND
DBP+BBP+DEHP		1000	mg/kg	-	ND
Comment					PASS.

BS EN 14041 : 2018- Chlorinated Paraffins

Test Method : With reference to ISO 18219-1:2021 & ISO 18219-2:2021, analysis was performed by GC-NCI-MS.

Test Item(s)	CAS NO.	Limit	Unit	MDL	001
Alkanes C ₁₀ ~C ₁₃ , chloro (short chain-chlorinated paraffins) (SCCPs)	85535-84-8 and others	1000	mg/kg	50	ND
Alkanes C ₁₄ ~C ₁₇ , chloro (medium chain-chlorinated paraffins) (MCCPs)	85535-85-9 and others	1000	mg/kg	50	ND
SCCPs + MCCPs	-	1000	mg/kg	-	ND
Comment					PASS.

BS EN 14041 : 2018- Polycyclic Aromatic Hydrocarbons (PAHs)

Test Method : With reference to BS EN 14041:2018 Annex E, analysis was performed by GC-MS.



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<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Benzo(a)anthracene(BaA)	56-55-3	1.0	mg/kg	0.2	ND
Chrysene(CHR)	218-01-9	1.0	mg/kg	0.2	ND
Benzo(b)fluoranthene(BbF)	205-99-2	1.0	mg/kg	0.2	ND
Benzo(j)fluoranthene(BjF)	205-82-3	1.0	mg/kg	0.2	ND
Benzo(k)fluoranthene(BkF)	207-08-9	1.0	mg/kg	0.2	ND
Benzo(a)pyrene(BaP)	50-32-8	1.0	mg/kg	0.2	ND
Benzo(e)pyrene(BeP)	192-97-2	1.0	mg/kg	0.2	ND
Dibenzo(a,h)anthracene(DBA)	53-70-3	1.0	mg/kg	0.2	ND
Comment					PASS.

BS EN 14041 : 2018- Organotin Compounds

Test Method : With reference to ISO/TS 16179:2012, analysis was performed by GC-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Dibutyltin (DBT)	-	mg/kg	0.20	ND
Diocetyl tin (DOT)	-	mg/kg	0.20	ND
Tri substituted Organotin	-	mg/kg	-	ND
Sum of Organotin compounds	1000	mg/kg	-	ND
Comment				PASS.

Notes :

Trisubstituted organotin compounds include Tributyltin (TBT), Triphenyltin (TPhT), Tripropyltin (TPT), Tricyclohexyltin (TCyT), Trioctyltin (TOT) and Trimethyltin (TMT), MDL for each other is 0.20 mg/kg.

BS EN 14041 : 2018- Perfluorooctanoic acid (PFOA) and its salts

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS.

<u>Test Item(s)</u>	<u>CAS NO.</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Perfluorooctanoic acid (PFOA) and its salts*	-	1000	mg/kg	10	ND
Comment					PASS.

Notes :

- (1) PFOA and its salts* including PFOA (CAS No. 335-67-1), APFO (CAS No. 3825-26-1), PFOA-Na (CAS No. 335-95-5), PFOA-K (CAS No. 2395-00-8), PFOA-Ag (CAS No. 335-93-3) and PFOA-F (CAS No. 335-66-0). The result of PFOA is used to represent PFOA and its salts.
- (2) PFOS and its salts/ derivatives* including PFOS (CAS No. 1763-23-1), POSF(CAS No. 307-35-7), PFOS-K (CAS No. 2795-39-3), PFOS-NH₄ (CAS No. 29081-56-9), PFOS-N(C₁₀H₂₁)₂(CH₃)₂ (CAS No. 251099-16-8), PFOS-NH₂(C₂H₄OH)₂ (CAS No. 70225-14-8), PFOS-Li (CAS No. 29457-72-5),

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PFOS-N(C₂H₅)₄ (CAS No. 56773-42-3) and PFOS-Na (CAS No. 4021-47-0). The result of PFOS is used to represent PFOS and its salts/ derivatives.

(3) * The test result is based on the calculation of selected marker(s) and to the worst-case scenario.

BS EN 14041 : 2018-AZO Dyes

Test Method : With reference to EN ISO 14362-1:2017, analysis was conducted with GC-MS/HPLC-DAD.Determination of 4-aminoazobenzene (CAS No.:60-09-3) with reference to EN ISO 14362-3:2017, analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.	Unit	MDL	001
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, MDA	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
4,4'-methylenedi-o-toluidine/3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	ND
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
4,4'-thiodianiline	139-65-1	mg/kg	5	ND
o-toluidine	95-53-4	mg/kg	5	ND
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	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 :



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1. Direct reduction (Method A) refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction (Method B) refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 Clause 10.1 and relevant clauses.
2. 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.
3. In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.
4. EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.

BS EN 14041 : 2018- AZO Dyes

Test Method : With reference to EN ISO14362-1:2017, analysis was conducted with GC-MS/HPLC-DAD.
Determination of 4-aminoazobenzene (CAS No.:60-09-3): with reference to EN ISO14362-3:2017, analysis was conducted with GC-MS/HPLC-DAD.

Test Item(s)	CAS NO.	Unit	MDL	001	
				Method A	Method B
4-Aminobiphenyl	92-67-1	mg/kg	5	ND	ND
Benzidine	92-87-5	mg/kg	5	ND	ND
4-chloro-o-toluidine	95-69-2	mg/kg	5	ND	ND
2-naphthylamine	91-59-8	mg/kg	5	ND	ND
o-aminoazotoluene	97-56-3	mg/kg	5	ND	ND



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Test Item(s)	CAS NO.	Unit	MDL	001	
				Method A	Method B
5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	ND	ND
4-chloroaniline	106-47-8	mg/kg	5	ND	ND
4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	ND	ND
4,4'-diaminodiphenylmethane, MDA	101-77-9	mg/kg	5	ND	ND
3,3'-dichlorobenzidine	91-94-1	mg/kg	5	ND	ND
3,3'-dimethoxybenzidine	119-90-4	mg/kg	5	ND	ND
3,3'-dimethylbenzidine	119-93-7	mg/kg	5	ND	ND
4,4'-methylenedi-o-toluidine/3,3'- Dimethyl-4,4'-diaminodiphenylm ethane	838-88-0	mg/kg	5	ND	ND
p-cresidine	120-71-8	mg/kg	5	ND	ND
4,4'-methylene-bis- (2-chloroaniline)	101-14-4	mg/kg	5	ND	ND
4,4'-oxydianiline	101-80-4	mg/kg	5	ND	ND
4,4'-thiodianiline	139-65-1	mg/kg	5	ND	ND
o-toluidine	95-53-4	mg/kg	5	ND	ND



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Test Item(s)	CAS NO.	Unit	MDL	001	
				Method A	Method B
4-methyl-m-phenylenediamine / 2,4-Toluyldiamine, TDA	95-80-7	mg/kg	5	ND	ND
2,4,5-trimethylaniline	137-17-7	mg/kg	5	ND	ND
4-aminoazobenzene	60-09-3	mg/kg	5	ND	ND
O-Anisidine	90-04-0	mg/kg	5	ND	ND
2,4-Xylidine	95-68-1	mg/kg	5	ND	ND
2,6-Xylidine	87-62-7	mg/kg	5	ND	ND

Notes :

1. Direct reduction (Method A) refers to the extraction and reduction according to EN ISO 14362-1:2017 clause 10.2 and relevant clauses. Colorant extraction (Method B) refers to the colourant extraction and subsequent reduction according to EN ISO 14362-1:2017 Clause 10.1 and relevant clauses.
2. 4-Aminodiphenyl (CAS No. 92-67-1), 2-Naphthylamine (CAS No. 91-59-8) and 2,4-Diaminoanisole (CAS No. 615-05-4) can be indirectly generated from some colorants which do not contain these amines azo bound. The use of banned azo colorants cannot be reliably ascertained without additional information.
3. In case PU is used, e.g. PU Foams or coatings, it cannot be ruled out that MDA (CAS No. 101-77-9) and TDA (CAS No. 95-80-7) can be released from PU material, not from banned azo colorant. Similarly, for pigment prints, MDA will be released from a chemical fixing agent.
4. EN ISO 14362-1:2017 will enable further cleavage of 4-AAB (CAS No. 60-09-3) to non-forbidden amines: aniline and p-phenylenediamine. If aniline and/or p-phenylenediamine is not found, 4-AAB is considered as "ND" (i.e. <5.0 mg/kg). Otherwise, EN ISO 14362-3:2017 will be employed to verify the presence of 4-AAB.



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



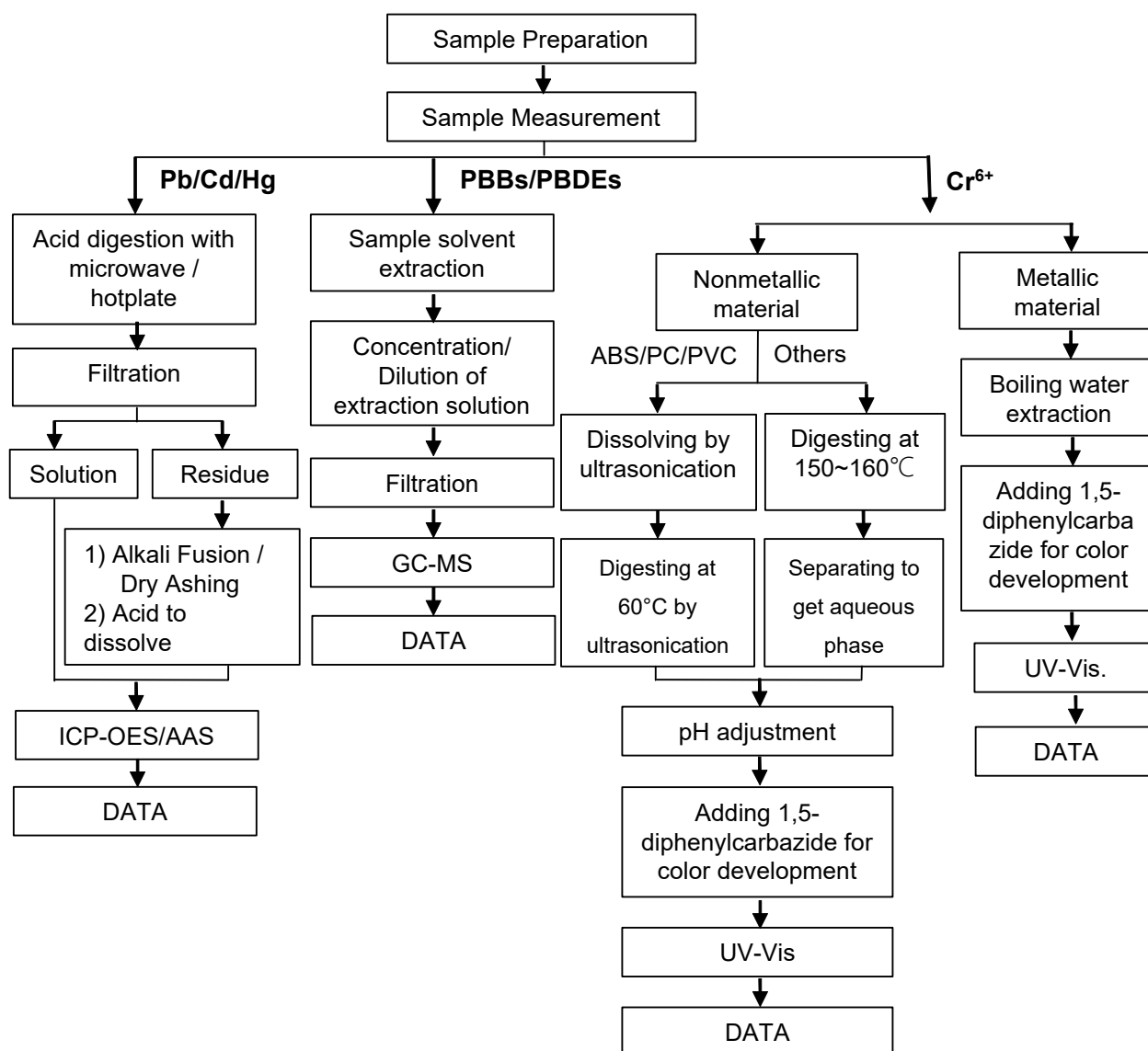
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Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing Flow Chart

1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ and PBBs/PBDEs test method excluded).

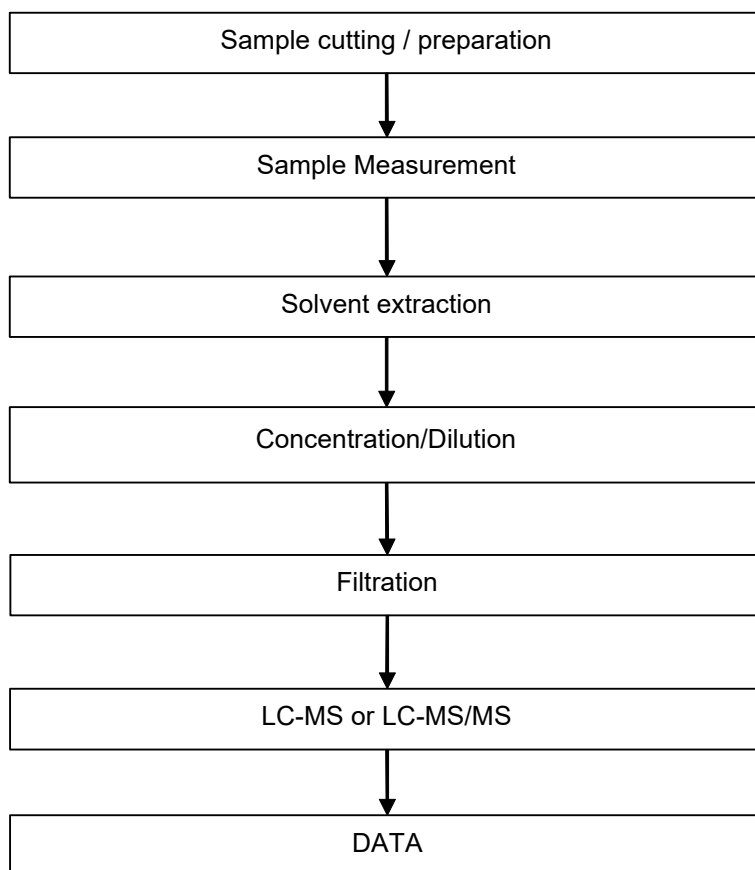


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Testing Flow Chart

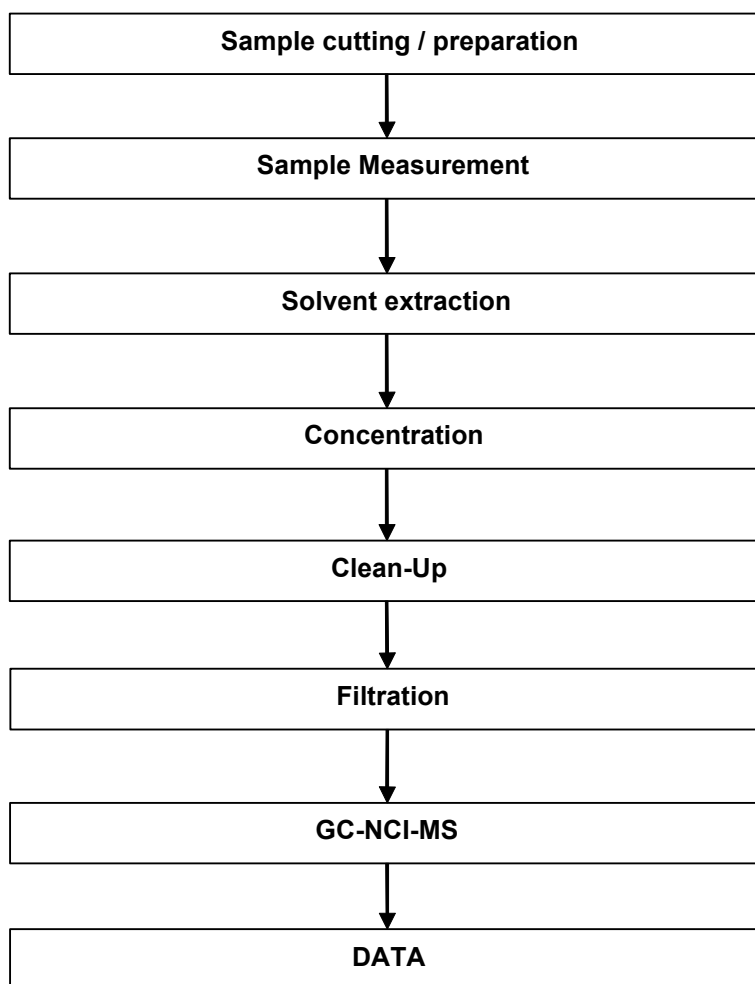


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SCCP/MCCP/LCCP Testing Flow Chart



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Sample photo:



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*** End of Report ***



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