

## Test Report

No. HKTEC2302457208

Date: 06 Jun 2023

Page 1 of 24

POSSEHL ELECTRONICS HONG KONG LIMITED

3/F-5/F, TSUEN WAN INDUSTRIAL CENTRE,  
220-248 TEXACO ROAD, TSUEN WAN,  
NEW TERRITORIES, HONG KONG

The following sample(s) was/were submitted and identified on behalf of the clients as : GOLD PLATING

SGS Job No. : 5233792 - HK

Date of Sample Received : 30 May 2023

Testing Period : 30 May 2023 - 05 Jun 2023

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.

Based on the performed tests on submitted sample(s), the test results do not exceed the limit as set by European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 - PFOA and its salts, PFOA-Related Substances , PFOS and its derivatives.

Signed for and on behalf of  
SGS Hong Kong Limited.



Lam Ka Yung, Allen  
Senior Chemist

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	HKT23-024572.001	Golden metal

Remarks :

- (1) 1 mg/kg = 1 ppm = 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+A1:2017, IEC62321-5:2013, IEC62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES and GC-MS. (Decision Rule: please refer to appendix 1: Category 1)

With reference to IEC62321-7-1:2015, analyzed by UV-Vis. (Decision Rule: please refer to appendix 1: Category 4)

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	ND
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm <sup>2</sup>	0.10	ND
Sum of PBBs	1,000	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	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND

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## Test Report

No. HKTEC2302457208

Date: 06 Jun 2023

Page 3 of 24

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Tetrabromodiphenyl ether	-	mg/kg	5	ND
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
Dibutyl Phthalate (DBP)	1,000	mg/kg	50	ND
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND
Diisobutyl Phthalate (DIBP)	1,000	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

[http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP\\_ORG\\_ID,FSP\\_LANG\\_ID:1258637,25](http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101:::FSP_ORG_ID,FSP_LANG_ID:1258637,25)

(2) ▼ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain Cr(VI)

b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The coating is considered a non-Cr(VI) based coating

c. The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive - unavoidable coating variations may influence the determination

Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

### Element(s)

Test Method : With reference to US EPA Method 3050B:1996. Analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Antimony (Sb)	-	mg/kg	10	ND
Antimony(III) oxide (Sb <sub>2</sub> O <sub>3</sub> ) ♦	-	mg/kg	12	ND
Beryllium (Be)	-	mg/kg	5	ND
Beryllium oxide (BeO) ♦	-	mg/kg	15	ND
Arsenic (As)	-	mg/kg	10	ND

### Notes :

(1) ♦ Calculated concentration of BeO is based on the identified Be

Calculated concentration of Sb<sub>2</sub>O<sub>3</sub> is based on the identified Sb

(2) The measurement report of the expanded uncertainty with confident level 95% by coverage factor k=2, is 20% for each analyte of Antimony, Beryllium and Arsenic.

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**Halogen**

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

<u>Test Item(s)</u>	<u>Limit</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

**Notes :**

- (1) The measurement report of the expanded uncertainty with confident level 95% by coverage factor k=2, is 20% for each analyte of Fluorine, Chlorine, Bromine and Iodine.

**European Regulation POPs (EU) 2020/784 amending to Regulation (EU) 2019/1021 - PFOA and its salts, PFOA-Related Substances , PFOS and its derivatives**

Test Method : With reference to CEN/TS15968:2010, analysis was performed by LC-MS or LC-MS/MS and GC-MS. (Decision Rule: please refer to appendix 1: Category 1)

<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+	--	0.025	mg/kg	0.010	ND
PFOA-related substances	--	1	mg/kg	-	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTS)	39108-34-4	-	mg/kg	1	ND
Methyl perfluorooctanoate (Me-PFOA)	376-27-2	-	mg/kg	1	ND
Ethyl perfluorooctanoate (Et-PFOA)	3108-24-5	-	mg/kg	1	ND
1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH )	678-39-7	-	mg/kg	1	ND
1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA)	27905-45-9	-	mg/kg	1	ND
1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA)	1996-88-9	-	mg/kg	1	ND
Perfluoro-1-iodooctane (PFOI)	507-63-1	-	mg/kg	1	ND
Perfluorooctane sulfonates (PFOS) and its derivatives	--	1,000	mg/kg	-	ND
Perfluorooctane sulfonates (PFOS)^	1763-23-1	-	mg/kg	1	ND

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## Test Report

No. HKTEC2302457208

Date: 06 Jun 2023

Page 5 of 24

<u>Test Item(s)</u>	<u>CAS NO</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
N-ethylperfluoro-1-octanesulfonamide (EtFOSA)	4151-50-2	-	mg/kg	1	ND
N-methylperfluoro-1-octanesulfonamide (MeFOSA)	31506-32-8	-	mg/kg	1	ND
2-(N-ethylperfluoro-1-octanesulfonamido)-ethanol (EtFOSE)	1691-99-2	-	mg/kg	1	ND
2-(N-methylperfluoro-1-octanesulfonamido)-ethanol (MeFOSE)	24448-09-7	-	mg/kg	1	ND
Perfluorooctane sulfonamide (PFOSA)	754-91-6	-	mg/kg	1	ND
<b>Conclusion</b>					<b>PASS</b>

### 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 refer to its derivatives including PFOS-K (CAS No.: 2795-39-3), PFOS-Li (CAS No.: 29457-72-5), PFOS-NH<sub>4</sub> (CAS No.: 29081-56-9), PFOS-NH(OH)<sub>2</sub> (CAS No.: 70225-14-8), PFOS-N(C<sub>2</sub>H<sub>5</sub>)<sub>4</sub> (CAS No.: 56773-42-3), PFOS-DDA (CAS No.: 251099-16-8) and POSF (CAS No.: 307-35-7)

### Hexabromocyclododecane (HBCDD)

Test Method : With reference to US EPA Method 3550C:2007, analysis was performed by GC-MS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ -HBCDD, $\beta$ -HBCDD, $\gamma$ -HBCDD)	-	mg/kg	10	ND

### Notes :

- (1) The measurement report of the expanded uncertainty with confident level 95% by coverage factor  $k=2$ , is 30% for each analyte of HBCDD.

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	Test Item	CAS No.
RoHS	Pb	7439-92-1
	Cd	7440-43-9
	Hg	7439-97-6
	Cr(VI)	18540-29-9
	<b>SUM of PBBs</b>	--
	<b>Monobromobiphenyl</b>	--
	3-Bromo-1,1'-biphenyl	2113-57-7
	2-Bromo-1,1'-biphenyl	2052-07-5
	4-Bromo-1,1'-biphenyl	92-66-0
	<b>Dibromobiphenyl</b>	--
	4,4'-Dibromobiphenyl	92-86-4
	2,2'-Dibromobiphenyl	13029-09-9
	2,6-Dibromobiphenyl	59080-32-9
	<b>Tribromobiphenyl</b>	--
	2,4,6-Tribromobiphenyl	59080-33-0
	2,4,5-Tribromobiphenyl	59080-39-3
	2,3,5-Tribromobiphenyl	59080-35-2
	2,2,5-Tribromobiphenyl	59080-34-1
	2,4,5-Tribromobiphenyl	--
	3,4,5-Tribromobiphenyl	--
	<b>Tetrabromobiphenyl</b>	--
	2,2',4,5'-TetrabromoBiphenyl	60044-24-8
	2,2',5,6'-TetrabromoBiphenyl	60044-25-9
	2,2',5,5'-TetrabromoBiphenyl	59080-37-4
	3,3',5,5'-TetrabromoBiphenyl	16400-50-3
	<b>Pentabromobiphenyl</b>	--
	2,2',4,5',6'-PentabromoBiphenyl	59080-39-6
	2,2',4,5,5'-PentabromoBiphenyl	67888-96-4
	<b>Hexabromobiphenyl</b>	--
	2,2',4,4',5,5'-HexabromoBiphenyl	59080-40-9
	3,3',4,4',5,5'-HexabromoBiphenyl	60044-26-0
	Heptabromobiphenyl	-
Nonabromobiphenyl	-	
Decabromobiphenyl	13654-09-6	

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	Test Item	CAS No.
RoHS	<b>SUM of PBDEs</b>	--
	<b>Monobromodiphenyl ether</b>	--
	4-BromoBiphenyl ether	36563-47-0
	MonobromoBiphenyl ether	101-55-3
	<b>Dibromodiphenyl ether</b>	--
	Bis(4-bromoBiphenyl) ether	--
	DibromoBiphenyl ether	2050-47-7
	Tribromodiphenyl ether	49690-94-0
	Tetrabromodiphenyl ether	40088-47-9
	Pentabromodiphenyl ether	32534-81-9
	Hexabromodiphenyl ether	36483-60-0
	Heptabromodiphenyl ether	68928-80-3
	Octabromodiphenyl ether	32536-52-0
	Nonabromodiphenyl ether	63936-56-1
	Decabromodiphenyl ether	1163-19-5

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	Test Item	CAS No.
RoHS2.0	BBP	85-68-7
	DEHP	117-81-7
	DBP	84-74-2
	DIBP	84-69-5

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	Test Item	CAS No.
Organo-fluorine Compounds	PFOA	335-67-1
	PFOS	1763-23-1

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	Test Item	CAS No.
Halogen	F	7782-41-4
	Cl	7782-50-5
	Br	7726-95-6
	I	7553-56-2

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	Test Item	CAS No.
Antimony	Sb	7440-36-0
	Sb2O3	1309-64-4

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	Test Item	CAS No.
Beryllium	Be	7440-41-7
	BeO	1304-56-9

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	Test Item	CAS No.
Hexabromocyclododecane	HBCDD	25637-99-4 / 3194-55-6

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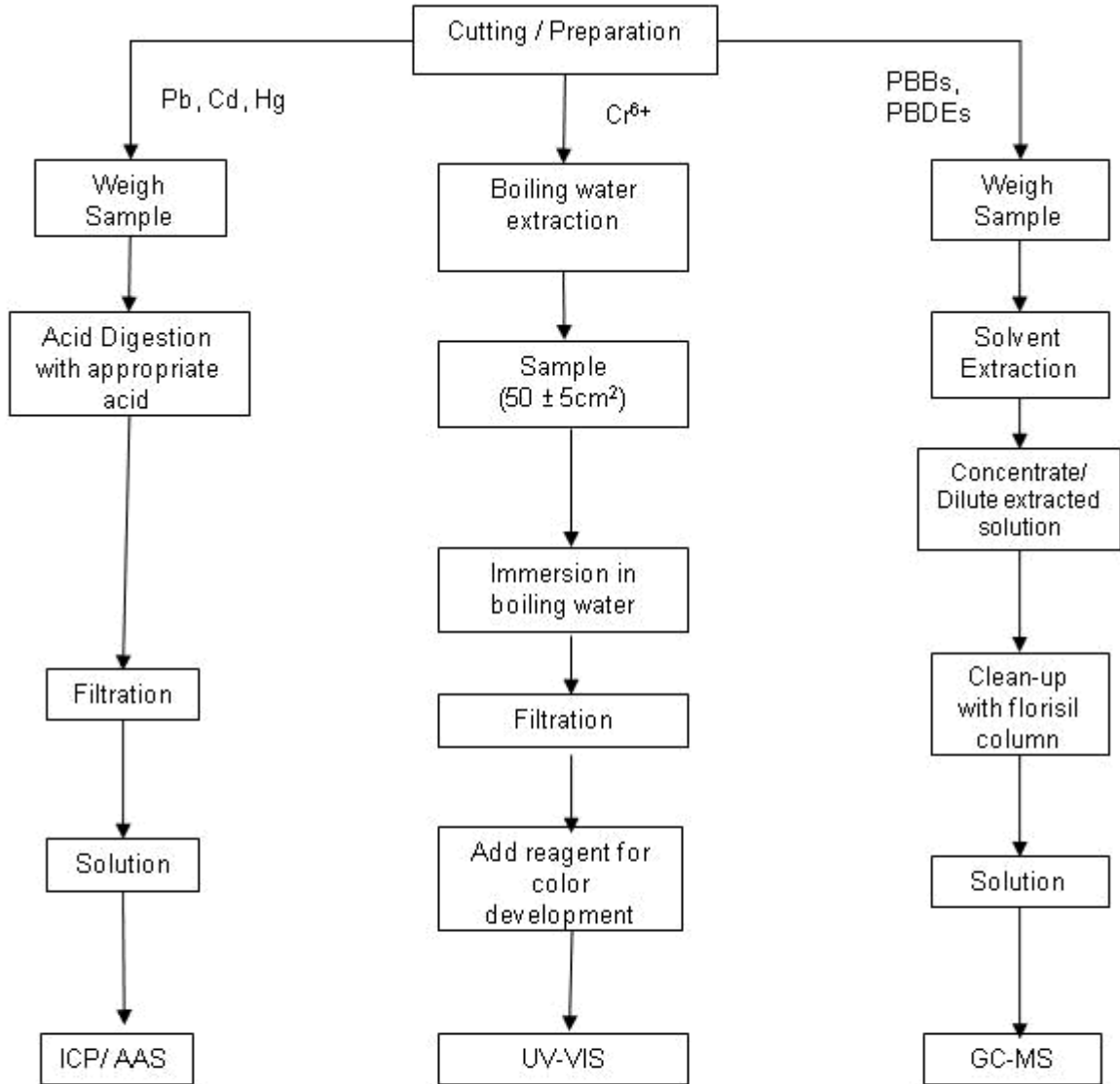
### Appendix

Below CAS numbers are provided as per client's declaration. Such declaration is not verified by SGS Hong Kong Ltd

	Test Item	CAS No.
Arsenic	As	7784-42-1

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The metallic samples were dissolved totally by pre-conditioning method according to above flow chart for Cd, Pb and Hg contents analysis.

Operator : Chiu Kan Yuen/ Tang Koon Pang (Acid digestion)  
Nick Liu (Hexavalent Chromium)  
Kent Wan (PBBs and PBDEs)

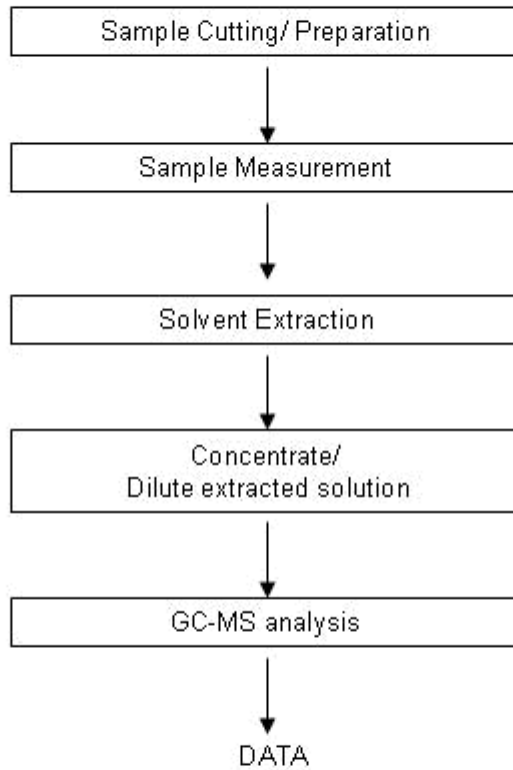
Section Chief : Chan Chun Kit (Dickson Chan)

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**Flowchart for Phthalates measurement**

Method: IEC62321



Tested by : Calvin Yuen  
Checked by : Brian Yip

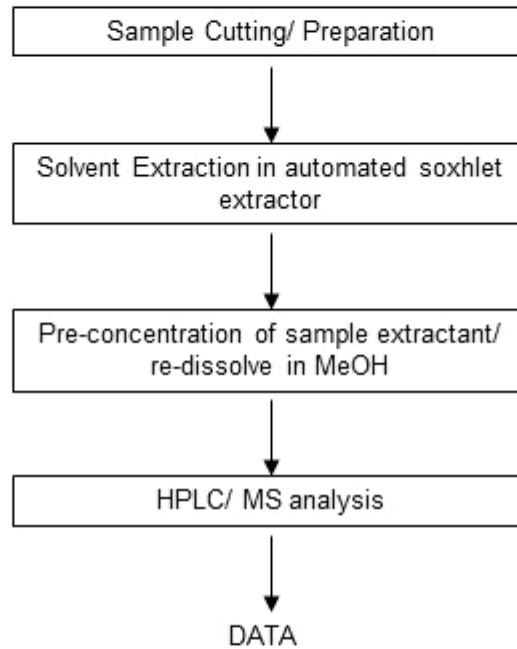
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**Flowchart for PFOS/ PFOA measurement**

Method: CEN/TS15968:2010



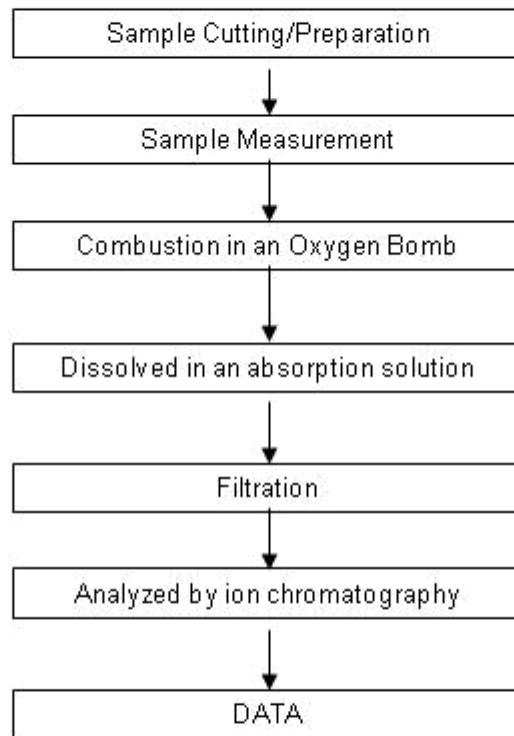
Operator : Candy Luk  
 Chief Supervisor : Yu Ka Lai

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**Flowchart for Halogen Free Test**

Method: BS EN14582:2016



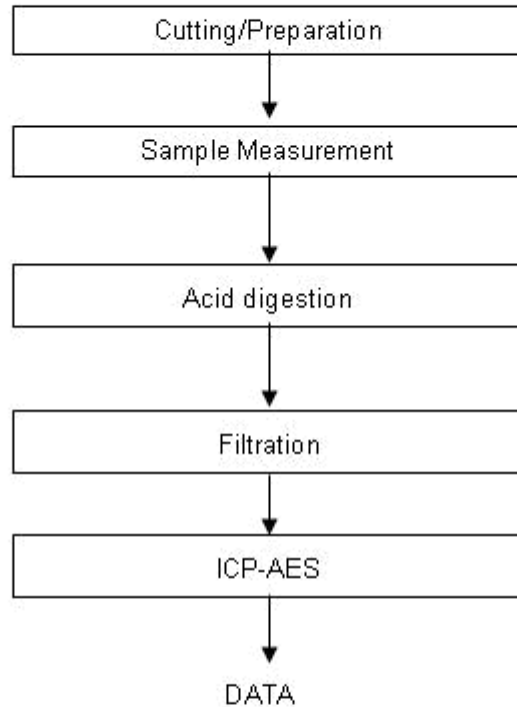
Operator: Tang Ying Sam  
 Supervisor: Chan Chun Kit (Dickson)

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**Flowchart of Digestion for Sb Measurement**

Method: EPA method 3050B: 1996



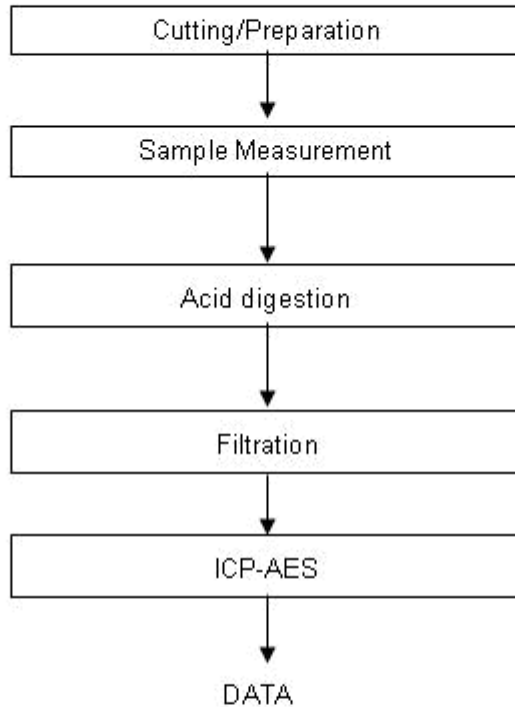
Operator : Chiu Kan Yuen  
 Section Chief : Chan Chun Kit (Dickson)

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**Flowchart of Digestion for Be Measurement**

Method: EPA method 3050B: 1996



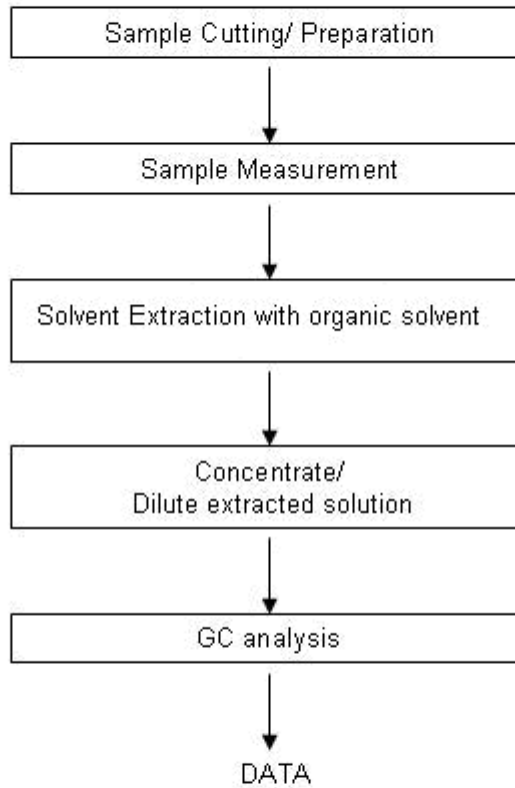
Operator : Chiu Kan Yuen  
 Section Chief : Chan Chun Kit (Dickson)

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### Flowchart for HBCDD measurement

Method: US EPA3550C:2007



Operator : Zinna Chow

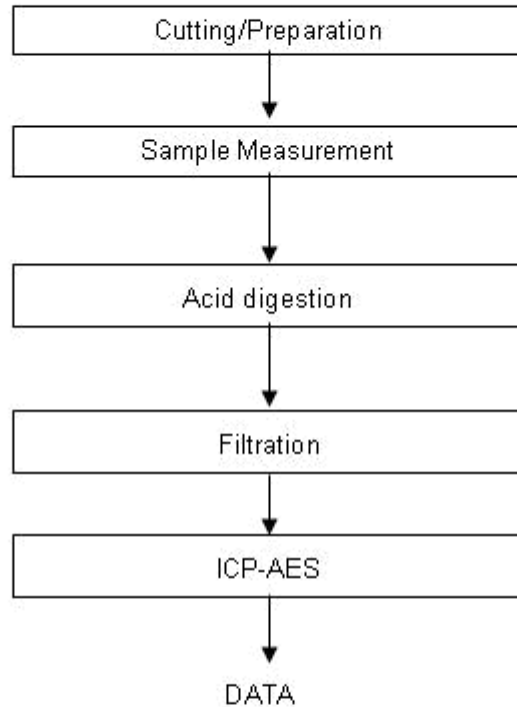
Chief Supervisor : Dicky Chan

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### Flowchart of Digestion for As Measurement

Method: EPA method 3050B: 1996



Operator : Chiu Kan Yuen  
Section Chief : Chan Chun Kit (Dickson)

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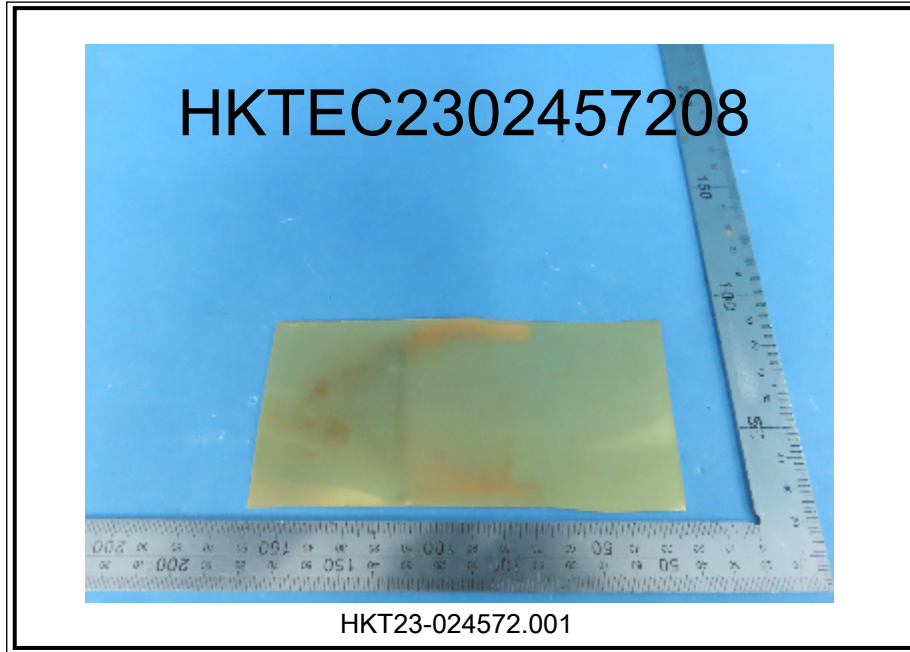
**Appendix 1**

Category	Decision Rule Statement
1	The decision rule for conformity reporting is based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, $w = U95$ ) in ILAC-G8:09/2019 Clause 4.2.3. A. "Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%." B. "Conditional Pass - The measured values were observed in tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values exceeded / out of tolerance. When the measured result is close to the tolerance, the specific false accept risk is up to 50%." C. "Conditional Fail - One or more measured values were observed out of tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values were in tolerance. When the measured result is close to the tolerance, the specific false reject risk is up to 50%." D. "Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.
2	The decision rule for conformity reporting is based on BS EN 1811:2011+A1:2015: Reference test method for release of nickel from all post assemblies which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin in Section 9.2 interpretation of results.
3	The decision rule for conformity reporting is based on the general consideration of simple acceptance as stated in ISO/IEC Guide 98-3: "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM 1995)", and more specifically for analytical measurements to the EURACHEM/CITAC Guide 2012 "Quantifying Uncertainty in Analytical Measurement".
4	The decision rule for conformity reporting is according to the IEC 62321-7-1 Edition 1.0 2015-09 Section 7: Table 1-(comparison to standard and interpretation of result)
5	The decision rule for conformity reporting is according to the IEC 62321-3-1 Edition 1.0 2013-06 Annex A.3 interpretation of result.
6	The decision rule for conformity reporting is according to the GB/T 26125-2011 Annex A to H
7	The decision rule for conformity reporting is according to the requested specification or standard (ASTM F963-17 section 4.3.5)
8	The decision rule for conformity reporting is according to the requested specification or standard (AS/NZS ISO 8124 Part 3 section 4.2)
Remark	If the decision rule is not feasible to be used and the uncertainty of the result is able to be provided, the uncertainty range of the result will be shown in the report. Otherwise, only result will be shown in the report.

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Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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