

# Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)

6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

(The following sample(s) was/were submitted and identified by the applicant

as)

BASIC INFORMATION	
Type of Product	HIGH POWER
Supplier Company Name	EVERLIGHT
Address	NO.6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN
Tel / Fax / Email	TEL:886-2685-6688
	FAX:886-2685-6699
	E-MAIL: lindawang@everlight.com
Contact Person	LI LING WANG
EVERLIGHT REPORT NO	HIGH POWER PIR&HIR&IR 1616 2016 2820 3030 3535 3838 C19DC19 SSA S06 SERIES Sampling Product: IR-C19D-1N90/L741-P03-TR-SGS-14-Jun-2024
PRODUCT INFORMATION	
Product/component Sample description	LIGHTING
Quantity (numbers or weight)	0.0385 g
EVERLIGHT P/N	HIGH POWER PIR&HIR&IR 1616 2016 2820 3030 3535 3838 C19DC19 SSA S06 SERIES Sampling Product: IR-C19D-1N90/L741-P03-TR
Product Lot No	Y240314A0902B5A
Country of Origin	TAIWAN
TEST INFORMATION	
Sample preparation	CUTTING
Test Method	RoHS: IEC 62321, Halogen: BS EN 14582
MDL	Cd, Pb, Hg: 2 mg/kg, PBBs/PBDEs: 5 mg/kg, Halogen: 50 mg/kg

(Sample Submitted By)

:

(EVERLIGHT ELECTRONICS CO., LTD.)

(Sample Receiving Date)

:

31-May-2024

(Testing Period)

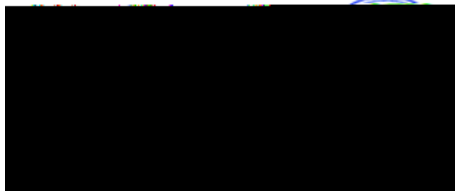
:

31-May-2024 to 14-Jun-2024

(Test Results)

:

(Please refer to following pages).



PIN CODE: 5C42873C

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(Test Requested) : (1) RoHS 2011/65/EU Annex II (EU) 2015/863  
, DBP, BBP, DEHP, DIBP (As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).)

(2)

(Conclusion) : (1)

(2)

PAHs 3

(AFPS) GS

(Based upon the performed tests on the submitted sample(s), the test results of PAHs (15 items) comply with the limits of

## (Test Part Description)

No.1 : (TRANSPARENT GLUE)

No.2 : (SILVER-WHITE COLORED SHEET)

## (Test Results)

(Test Items)	(Method)	(Unit)	MDL		(Limit)
			No.1	No.2	
	IEC 62321-5: 2013 (With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	100
	IEC 62321-5: 2013 (With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	1000

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(Test Items)	(Method)	(Unit)	MDL	(Result)		(Limit)
				No.1	No.2	
(Hg) (Mercury (Hg))	IEC 62321-4: 2013+ AMD1: 2017 (With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	n.d.	1000
Cr(VI) (Hexavalent Chromium Cr(VI))	IEC 62321-7-2: 2017 (With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.)	mg/kg	8	n.d.	n.d.	1000
(Monobromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Tribromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Pentabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Hexabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Heptabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Octabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Nonabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Decabromobiphenyl)		mg/kg	5	n.d.	n.d.	-
(Sum of PBBs)		mg/kg	-	n.d.	n.d.	1000
(Monobromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Dibromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Tribromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Tetrabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Pentabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Hexabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Heptabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Octabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Nonabromodiphenyl ether)		mg/kg	5	n.d.	n.d.	-
(Sum of PBDEs)		mg/kg	-	n.d.	n.d.	1000

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(Test Items)	(Method)	(Unit)	MDL	(Result)		(Limit)
				No.1	No.2	
(BBP) (Butyl benzyl phthalate (BBP))	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	n.d.	1000
(DBP) (Dibutyl phthalate (DBP))		mg/kg	50	n.d.	n.d.	1000
(2- ) (DEHP) (Di-(2-ethylhexyl) phthalate (DEHP))		mg/kg	50	n.d.	n.d.	1000
(DIBP) (Diisobutyl phthalate (DIBP))		mg/kg	50	n.d.	n.d.	1000
(DIDP) (Diisodecyl phthalate (DIDP)) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.	n.d.	-
(DINP) (Diisononyl phthalate (DINP)) (CAS No.: 28553-12-0, 68515-48-0)		mg/kg	50	n.d.	n.d.	-
(DNOP) (Di-n-octyl phthalate (DNOP)) (CAS No.: 117-84-0)		mg/kg	50	n.d.	n.d.	-
(DNPP) (Di-n-pentyl phthalate (DNPP)) (CAS No.: 131-18-0)		mg/kg	50	n.d.	n.d.	-
(DNHP) (Di-n-hexyl phthalate (DNHP)) (CAS No.: 84-75-3)		mg/kg	50	n.d.	n.d.	-
(2- ) (DMEP) (Bis(2-methoxyethyl) phthalate (DMEP)) (CAS No.: 117-82-8)		mg/kg	50	n.d.	n.d.	-
(DMP) (Dimethyl phthalate (DMP)) (CAS No.: 131-11-3)		mg/kg	50	n.d.	n.d.	-
(DIOP) (Diisooctyl phthalate (DIOP)) (CAS No.: 27554-26-3)		mg/kg	50	n.d.	n.d.	-

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(Test Items)	(Method)	(Unit)	MDL	(Result)		(Limit)
				No.1	No.2	
(DNNP) (Di-n-nonyl phthalate (DNNP)) (CAS No.: 84-76-4)	IEC 62321-8: 2017 / (With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.)	mg/kg	50	n.d.	n.d.	-
(HBCDD) ( - HBCDD, - HBCDD, - HBCDD) (Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( - HBCDD, - HBCDD, - HBCDD)) (CAS No.: 25637-99-4, 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8))	IEC 62321: 2008 / (With reference to IEC 62321: 2008, analysis was performed by GC/MS.)	mg/kg	5	n.d.	n.d.	-
(F) (Fluorine (F)) (CAS No.: 14762-94-8)	BS EN 14582: 2016 (With reference to BS EN 14582: 2016, analysis was performed by IC.)	mg/kg	50	406	200	-
(Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1)		mg/kg	50	n.d.	n.d.	-
(Br) (Bromine (Br)) (CAS No.: 10097-32-2)		mg/kg	50	n.d.	n.d.	-
(I) (Iodine (I)) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	n.d.	-
(PFOS and its salts) (CAS No.: 1763-23-1 and its salts)	CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	n.d.	-
(PFOA and its salts) (CAS No.: 335-67-1 and its salts)	CEN/TS 15968: 2010 (With reference to CEN/TS 15968: 2010, analysis was performed by LC/MS/MS.)	mg/kg	0.01	n.d.	n.d.	-

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(Test Items)	(Method)	(Unit)	MDL	(Result)		(Limit)
				No.1	No.2	
(Polycyclic Aromatic Hydrocarbons) (PAHs)						
(a) (Benzo[a]pyrene) (CAS No.: 50-32-8)	AfPS GS 2019:01 PAK / (With reference to AfPS GS 2019:01 PAK, analysis was performed by GC/MS.)	mg/kg	0.2	n.d.	n.d.	
(e) (Benzo[e]pyrene) (CAS No.: 192-97-2)		mg/kg	0.2	n.d.	n.d.	
(Benzo[a]anthracene) (CAS No.: 56-55-3)		mg/kg	0.2	n.d.	n.d.	
(b) (Benzo[b]fluoranthene) (CAS No.: 205-99-2)		mg/kg	0.2	n.d.	n.d.	
(j) (Benzo[j]fluoranthene) (CAS No.: 205-82-3)		mg/kg	0.2	n.d.	n.d.	
(k) (Benzo[k]fluoranthene) (CAS No.: 207-08-9)		mg/kg	0.2	n.d.	n.d.	
(Chrysene) (CAS No.: 218-01-9)		mg/kg	0.2	n.d.	n.d.	
(Dibenzo[a,h]anthracene) (CAS No.: 53-70-3)		mg/kg	0.2	n.d.	n.d.	
(Benzo[g,h,i]perylene) (CAS No.: 191-24-2)		mg/kg	0.2	n.d.	n.d.	
(Indeno[1,2,3-c,d]pyrene) (CAS No.: 193-39-5)		mg/kg	0.2	n.d.	n.d.	
(Anthracene) (CAS No.: 120-12-7)		mg/kg	0.2	n.d.	n.d.	
(Fluoranthene) (CAS No.: 206-44-0)		mg/kg	0.2	n.d.	n.d.	
(Phenanthrene) (CAS No.: 85-01-8)		mg/kg	0.2	n.d.	n.d.	
(Pyrene) (CAS No.: 129-00-0)		mg/kg	0.2	n.d.	n.d.	
(Naphthalene) (CAS No.: 91-20-3)		mg/kg	0.2	n.d.	n.d.	
15 (Sum of 15)	mg/kg	-	n.d.	n.d.		



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(Test Items)	(Method)	(Unit)	MDL	(Result)		(Limit)
				No.1	No.2	
(Be) (Beryllium (Be)) (CAS No.: 7440-41-7)	US EPA 3052: 1996 (With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.)	mg/kg	2	n.d.	n.d.	-

(Note)

1. mg/kg = ppm 0.1wt% = 0.1% = 1000ppm

2. MDL = Method Detection Limit ( )

3. n.d. = Not Detected ( ); MDL / Less than MDL

4. "-" = Not Regulated ( )

5. ILAC-G8:09/2019 (w=0)

(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. According to this rule, the judgement of conformity is based on the comparing test results with limits.)

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## PAHs Remark

(AfPS): GS PAHs

AfPS (German commission for Product Safety): GS PAHs requirements

(Parameter)	1 (Category 1)	2 (Category 2)		3 (Category 3)		
	( $< 30$ ) 2009/48/EC (Materials intended to be placed in the mouth, or materials in toys (Directive 2009/48/EC) or articles for children up to 3 years of age with intended long-term skin contact ( $> 30$ seconds))	1 $< 30$ (Materials that are not in Category 1, with intended or foreseeable long-term skin contact ( $> 30$ seconds) or short-term repetitive contact with the skin)	2 $< 30$ (Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact ( $< 30$ seconds))	1 a. $< 14$ (Use by children under 14)	2 b. (Other consumer products)	3 a. $< 14$ (Use by children under 14)
Naphthalene	$< 1$	$< 2$		$< 10$		
Phenanthrene	$< 1$ Sum	$< 5$ Sum	$< 10$ Sum	$< 20$ Sum	$< 50$ Sum	
Anthracene						
Fluoranthene						
Pyrene						
Benzo[a]anthracene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Chrysene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Benzo[b]fluoranthene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Benzo[j]fluoranthene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Benzo[k]fluoranthene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Benzo[a]pyrene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Benzo[e]pyrene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Indeno[1,2,3-c,d] pyrene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Dibenzo[a,h]anthracene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
Benzo[g,h,i]perylene	$< 0.2$	$< 0.2$	$< 0.5$	$< 0.5$	$< 1$	
15 PAH (Sum of 15 PAH)	$< 1$	$< 5$	$< 10$	$< 20$	$< 50$	

(Unit) mg/kg





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PFAS Remark

(Perfluorooctane sulfonates) (PFOS)	1763-23-1
(PFOS-K)	2795-39-3
Potassium perfluorooctanesulfonate (PFOS-K)	
(PFOS-Li)	29457-72-5
Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)	
(PFOS-NH <sub>4</sub> )	29081-56-9
Perfluorooctanesulfonic acid, ammonium salt (PFOS-NH <sub>4</sub> )	

PFOS, &  
(PFOS, its salts & derivatives)

(POSF)	307-35-7
Perfluorooctane sulfonyl fluoride (POSF)	

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(Group Name)	(Substance Name)	CAS No.
PFOS, & (PFOS, its salts & derivatives)	(PFOS-Mg) Perfluorooctanesulfonic acid, magnesium salt (PFOS-Mg)	91036-71-4
	(PFOS-Na) Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)	4021-47-0
	Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptafluorooctanesulfonate	71463-74-6
PFOA, & (PFOA, its salts & derivatives)	(Perfluorooctanoic acid) (PFOA)	335-67-1
	(PFOA -Na) Sodium perfluorooctanoate (PFOA-Na)	335-95-5
	(PFOA -K) Potassium perfluorooctanoate (PFOA-K)	2395-00-8
	(PFOA -Ag) Silver perfluorooctanoate (PFOA-Ag)	335-93-3
	(PFOA -F) Perfluorooctanoyl fluoride (PFOA-F)	335-66-0
	(APFO) Ammonium pentadecafluorooctanoate (APFO)	3825-26-1
	(PFOA -Li) Lithium perfluorooctanoate (PFOA-Li)	17125-58-5
	(PFOA-Co) Cobalt perfluorooctanoate (PFOA-Co)	35965-01-6
	(PFOA-Cs) Cesium perfluorooctanoate (PFOA-Cs)	17125-60-9
	(PFOA-Cr(3*)) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluoro-, chromium(3+) (PFOA-Cr(3*))	68141-02-6
	- (2:1) PFOA-NH(C <sub>4</sub> H <sub>10</sub> N) Pentadecafluorooctanoic acid--piperazine (2/1) PFOA-NH(C <sub>4</sub> H <sub>10</sub> N)	423-52-9
	Pentadecafluorooctanoate (anion)	45285-51-6
	Perfluorooctanoic Anhydride	33496-48-9

# Test Report

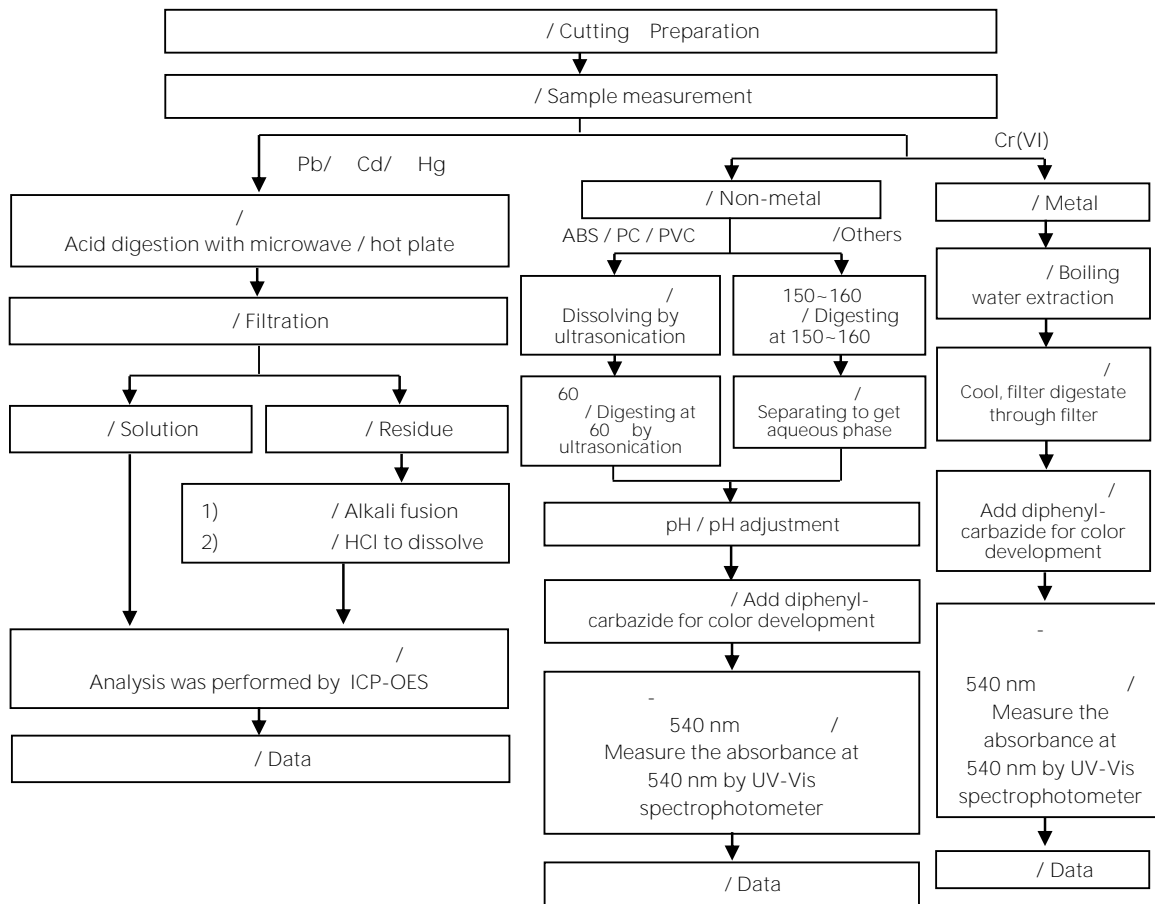
(EVERLIGHT ELECTRONICS CO., LTD.)

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## / Analytical flow chart of heavy metal

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

Cr<sup>6+</sup> test method excluded

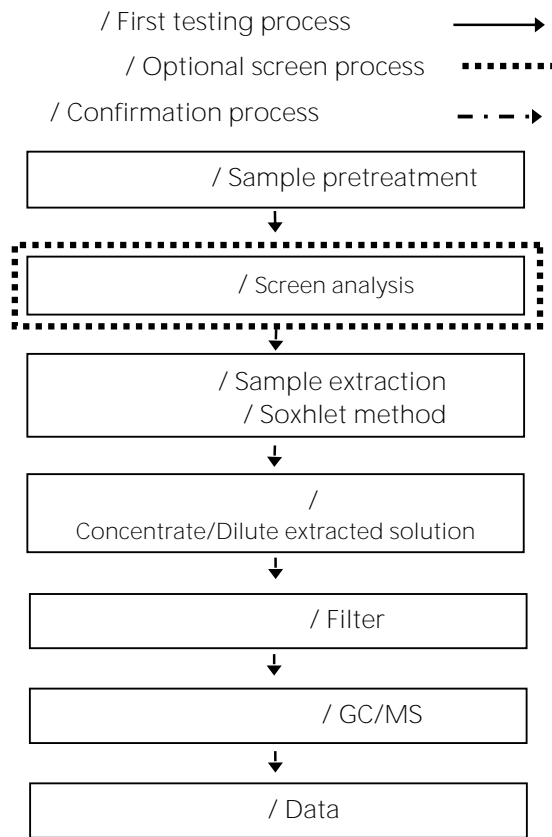


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/ Analytical flow chart - PBBs/PBDEs



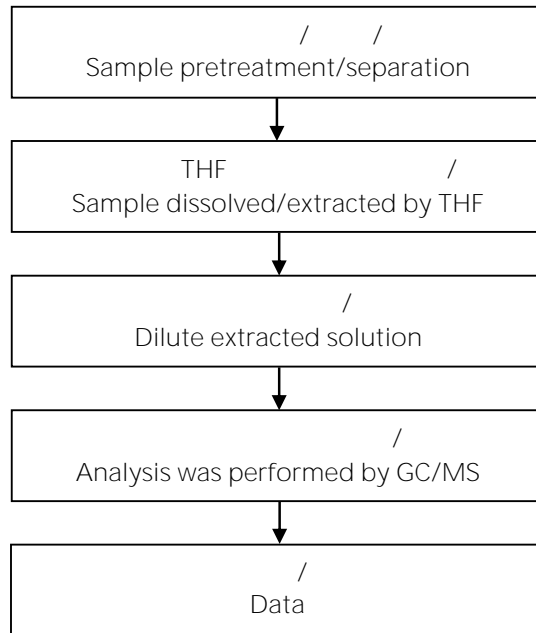
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/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8

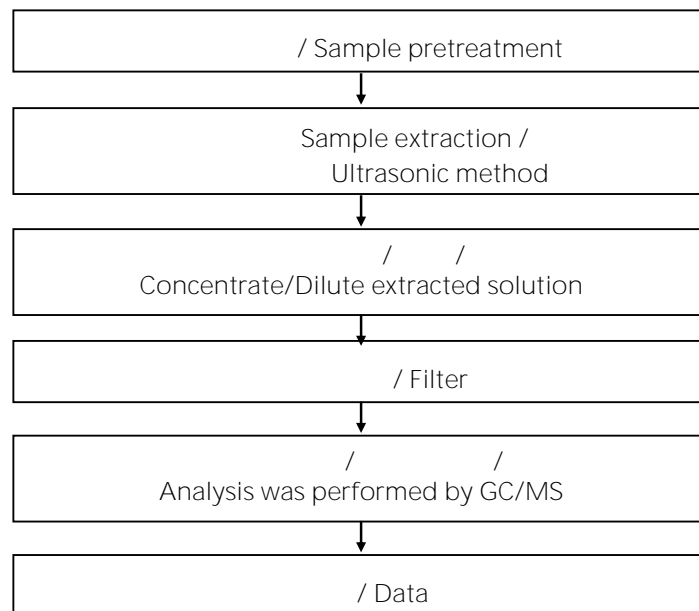


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/ Analytical flow chart - HBCDD

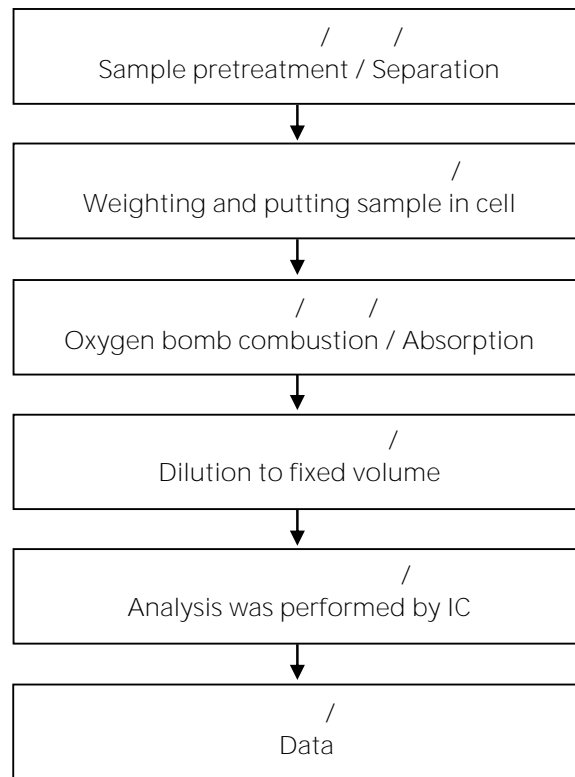


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/ Analytical flow chart - Halogen

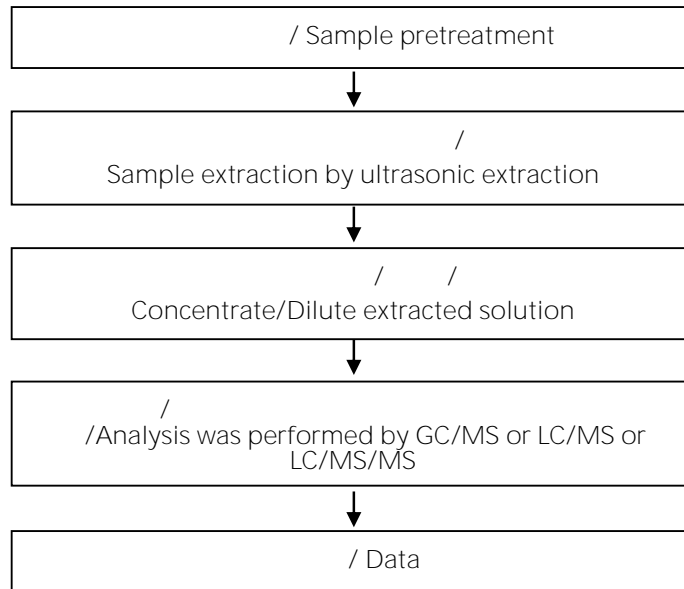


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( / / ) / Analytical flow chart - PFAS (including PFOA/PFOS/its related compound, etc.)



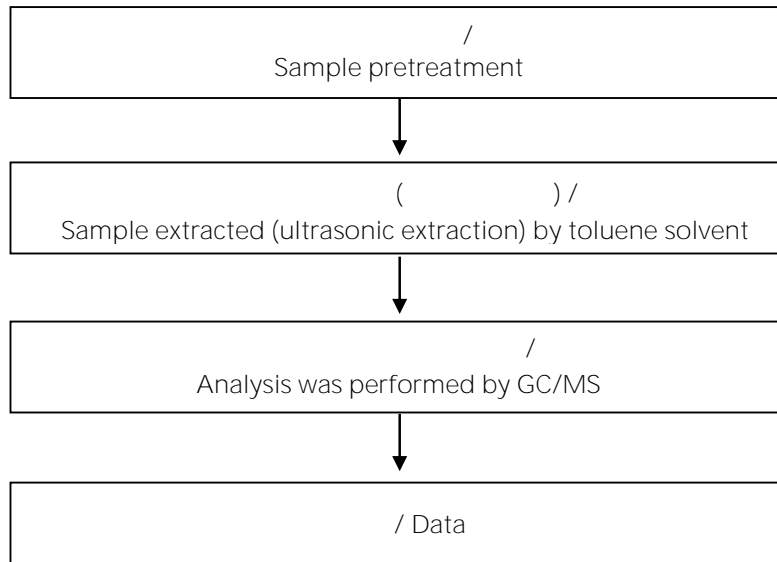


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Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)





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\* / \*

(The tested sample / part is marked by an arrow if it's shown on the photo.)

**ETR24505692 NO. 1**



**ETR24505692 NO. 1**



\*\* (End of Report) \*\*

