

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 FC1414 FC1610 FC2016 SERIES |
| 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 FC1414 FC1610 FC2016 SERIES Sampling Product : FC2016GF1DMP-B525730402836E-2T-SGS-13-Sep-2024 |
| PRODUCT INFORMATION | |
| Product/component Sample description | visible FLASH LED |
| Quantity (numbers or weight) | 0.008 g |
| EVERLIGHT P/N | HIGH POWER FC1414 FC1610 FC2016 SERIES Sampling Product : FC2016GF1DMP-B525730402836E-2T |
| Product Lot No | Y240805A5101B17LMP |
| 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) : 03-Sep-2024
 (Testing Period) : 03-Sep-2024 to 13-Sep-2024

(Test Results) : (Please refer to following pages).



PIN CODE: 4FFA4BD8

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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) PAHs (As specified by client, to test PAHs and other item(s).)

(Conclusion) : (1) , DBP, BBP, DEHP, DIBP RoHS 2011/65/EU Annex II (EU) 2015/863 (Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.)

(2) (AfPS) GS PAHs 3 (Based upon the performed tests on the submitted sample(s), the test results of PAHs (15 items) comply with the limits of PAHs requirement (Category 3) Other consumer products as set by German Committee on Product Safety (AfPS) GS PAHs.)

(Test Part Description)

No.1 : HIGH POWER FC1414 FC1610 FC2016 SERIES

(Test Results)

| (Test Items) | (Method) | (Unit) | MDL | (Result) | (Limit) |
|---------------------|--|--------|-----|----------|---------|
| | | | | No.1 | |
| (Cd) (Cadmium (Cd)) | IEC 62321-5: 2013 (With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.) | mg/kg | 2 | n.d. | 100 |
| (Pb) (Lead (Pb)) | 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 | |
| (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. | 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. | 1000 |
| (Monobromobiphenyl) | IEC 62321-6: 2015 / (With reference to IEC 62321-6: 2015, analysis was performed by GC/MS.) | mg/kg | 5 | n.d. | - |
| (Dibromobiphenyl) | | mg/kg | 5 | n.d. | - |
| (Tribromobiphenyl) | | mg/kg | 5 | n.d. | - |
| (Tetrabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| (Pentabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| (Hexabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| (Heptabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| (Octabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| (Nonabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| (Decabromobiphenyl) | | mg/kg | 5 | n.d. | - |
| (Sum of PBBs) | | mg/kg | - | n.d. | 1000 |
| (Monobromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| (Dibromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| (Tribromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| (Tetrabromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| (Pentabromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| (Hexabromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| (Heptabromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| (Octabromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| (Nonabromodiphenyl ether) | | mg/kg | 5 | n.d. | - |
| (Decabromodiphenyl ether) | mg/kg | 5 | n.d. | - | |
| (Sum of PBDEs) | mg/kg | - | n.d. | 1000 | |

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

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| (Test Items) | (Method) | (Unit) | MDL | (Result) | (Limit) |
|---|--|--------|------|----------|---------|
| | | | | No.1 | |
| (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. | - |
| (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. | - |
| (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 | n.d. | - |
| (Cl) (Chlorine (Cl)) (CAS No.: 22537-15-1) | | mg/kg | 50 | n.d. | - |
| (Br) (Bromine (Br)) (CAS No.: 10097-32-2) | | mg/kg | 50 | n.d. | - |
| (I) (Iodine (I)) (CAS No.: 14362-44-8) | | mg/kg | 50 | n.d. | - |
| (PFOS and its salts) (Perfluorooctane sulfonates and its salts (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. | - |
| (PFOA and its salts) (Perfluorooctanoic acid and its salts (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. | - |

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(No.): ETR24900350

(Date): 13-Sep-2024

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

MDL

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| (Method) | (Unit) | MDL | No.1 | (Limit) |
|--|--------|-----|------|---------|
| US EPA 3052: 1996 (With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.) | mg/kg | 2 | n.d. | - |

- 1.
- 2.
- 3.
- 4.
- 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 3 (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) | | 1 2 30 () (Materials not covered by Category 1 or 2, with intended or foreseeable short-term skin contact (30 seconds)) | |
| | | a. 14 (Use by children under 14) | b. (Other consumer products) | a. 14 (Use by children under 14) | b. (Other consumer products) |
| Naphthalene | < 1 | < 2 | | < 10 | |
| Phenanthrene | < 1 Sum | < 5 Sum | < 10 Sum | < 20 Sum | < 50 Sum |
| Anthracene | | | | | |
| Fluoranthene | | | | | |
| Pyrene | | | | | |
| Benzo[a]anthracene | | | | | |

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PFAS Remark

PFAS

PFAS

PFAS

PFAS

PFAS

(PFAS

PFAS)

(The quantitative technology of PFAS is to analyze the specific structure of PFAS substances. However, PFAS acid and its salts with the same carbon number group have the same specific structure that can be identified. The tested results of the analyzed specific structure cannot be distinguished to identify the contribution from PFAS acid or its salts. Therefore, the tested results display the sum of concentrations of PFAS acids and its salts with the same carbon number group. The concentration of PFAS substances in the below table have been included in the tested results, please refer to the table for relevant information: (The listed PFAS substances are examples only, it do not include all PFAS salts with the same carbon number group.))

(PFOS-NH₄)

Perfluorooctanesulfonic acid, ammonium salt
(PFOS-NH₄)

(PFOS-NH(OH)₂)

Perfluorooctane sulfonate diethanolamine salt
(PFOS-NH(OH)₂)

(PFOS-N(C₂H₅)₄)

Perfluorooctanesulfonic acid, tetraethylammonium salt
(PFOS-N(C₂H₅)₄)

(PFOS-DDA)

N-decyl-N,N-dimethyldecyl-1-aminium
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)

(PFOS-N(C₄H₉)₄)

Tetrabutylammonium perfluorooctanesulfonate
(PFOS-N(C₄H₉)₄)

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(PFOS-Mg)

Perfluorooctanesulfonic acid, magnesium salt
(PFOS-Mg)

(PFOS-Na)

Perfluorooctanesulfonic acid, sodium salt (PFOS-Na)

Piperidine 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-
heptadecafluorooctanesulfonateN,N - (1:1) (PFOS-N(C₂H₅)₃)1-Octanesulfonic acid, 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-
heptadecafluoro-, compd. with N,N-diethylethanamine (1:1)
(PFOS-N(C₂H₅)₃)N,N,N - -1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- -1-
(1:1) (PFOS-N(CH₃)₄)

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(Date): 13-Sep-2024

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1- N,N,N- - 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- -
1 - (1:1)
1-Decanaminium, N,N,N-triethyl-,
1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluoro-1-
octanesulfonate (1:1)

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| (Group Name) | (Substance Name) | CAS No. |
|--|--|------------|
| 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 ₄ H ₁₀ N) Pentadecafluorooctanoic acid--piperazine (2/1)PFOA-NH(C ₄ H ₁₀ N) | 423-52-9 |
| | Pentadecafluorooctanoate (anion) | 45285-51-6 |
| | Perfluorooctanoic Anhydride | 33496-48-9 |
| | N,N,N'- , 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-(1:1) Ethanaminium, N,N,N-triethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) | 98241-25-9 |
| | Tetramethylammoniumperfluorooctanoat | 32609-65-7 |

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Test Report

(EVERLIGHT ELECTRONICS CO., LTD.)

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

| (Group Name) | (Substance Name) | CAS No. |
|--|--|--------------|
| PFOA, & (PFOA, its salts & derivatives) | 1- N,N,N- - 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- (1:1) 1-Propanaminium, N,N,N-tripropyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) | 277749-00-5 |
| | 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- - (1:1:2) (PFOA-K(H ₂ O) ₂) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, potassium salt, hydrate (1:1:2) (PFOA- K(H ₂ O) ₂) | 98065-31-7 |
| | 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- - (1:1) (PFOA-C ₂ H ₇ N) Octanoic acid, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- pentadecafluoro-, compd. with ethanamine (1:1) (PFOA- C ₂ H ₇ N) | 1376936-03-6 |
| | (1:1) (9Cl) (PFOA - C ₅ H ₅ N) Octanoic acid, pentadecafluoro-, compd. with pyridine (1:1) (9Cl) (PFOA-C ₅ H ₅ N) | 95658-47-2 |
| | -1- (1:1) (PFOA - C ₁₀ H ₁₄ N ₂) Pentadecafluorooctanoic acid- 1-phenylpiperazine(1:1) (PFOA-C ₁₀ H ₁₄ N ₂) | 1514-68-7 |
| | 1- N,N,N- - 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8- (1:1) (PFOA - C ₁₁ H ₂₆ N) 1-Octanaminium, N,N,N-trimethyl-, 2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-pentadecafluorooctanoate (1:1) (PFOA- C ₁₁ H ₂₆ N) | 927835-01-6 |

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Test Report

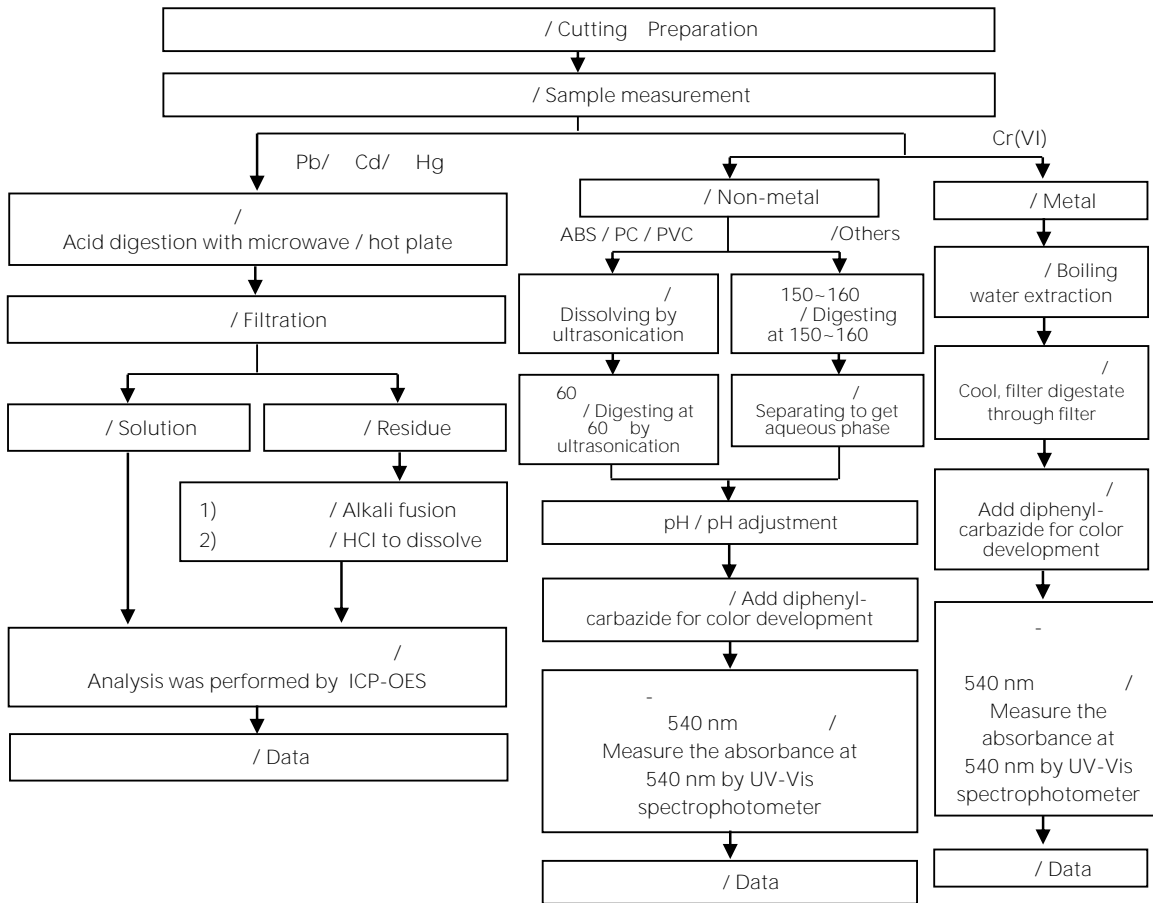
(EVERLIGHT ELECTRONICS CO., LTD.)

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

/ Analytical flow chart of heavy metal

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

Cr⁶⁺ test method excluded



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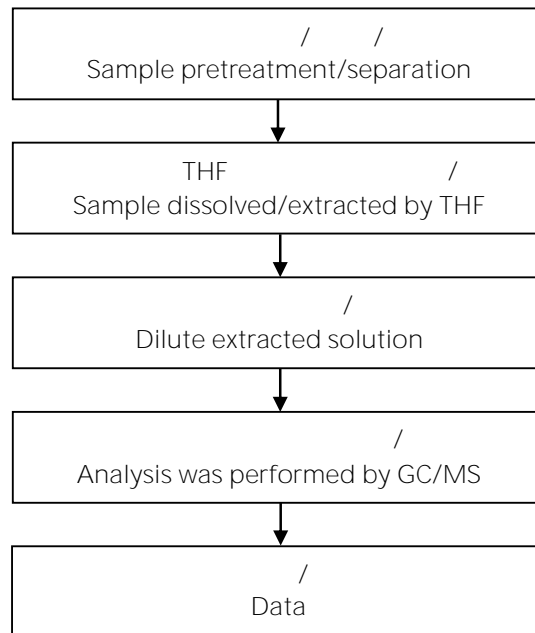
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Test Report

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

/ Analytical flow chart - Phthalate

/Test method: IEC 62321-8



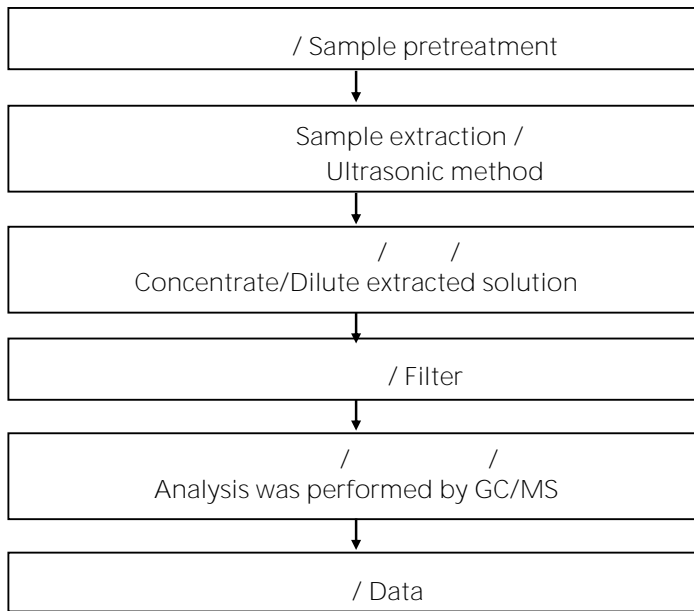
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Test Report

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

/ Analytical flow chart - HBCDD



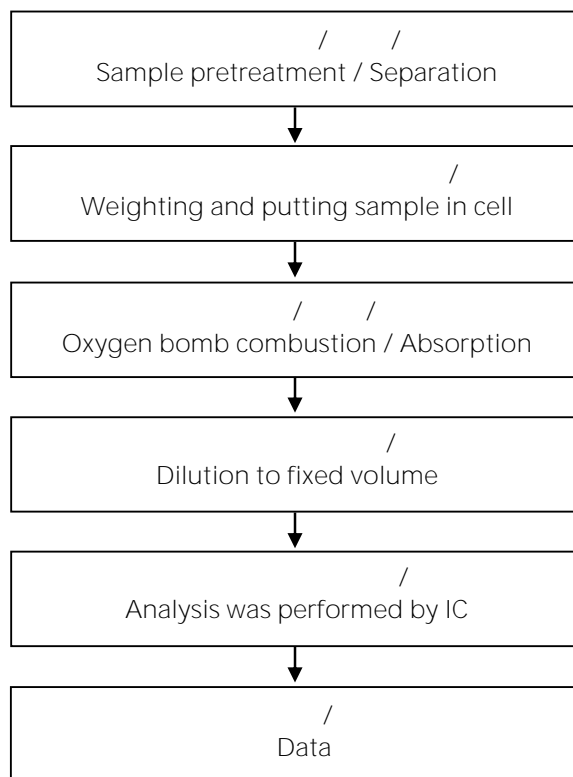
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Test Report

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/ Analytical flow chart - Halogen



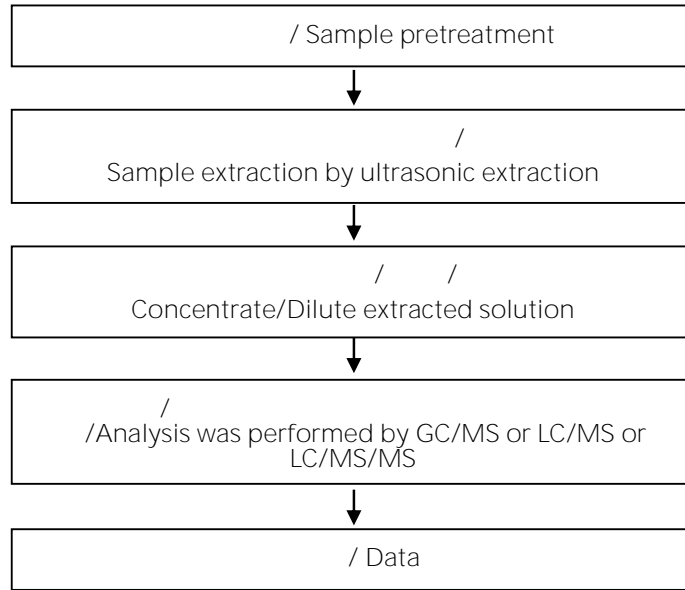
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

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

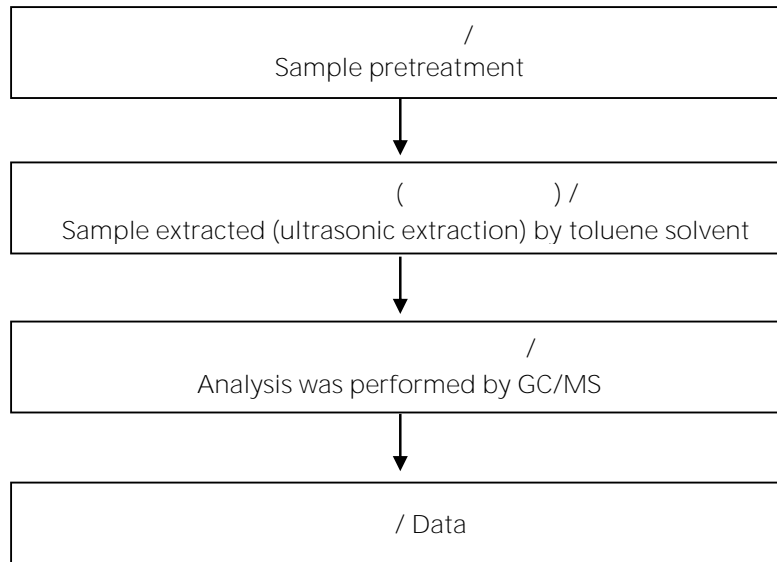


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Test Report

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

Analytical flow chart - PAHs (Polycyclic Aromatic Hydrocarbons)



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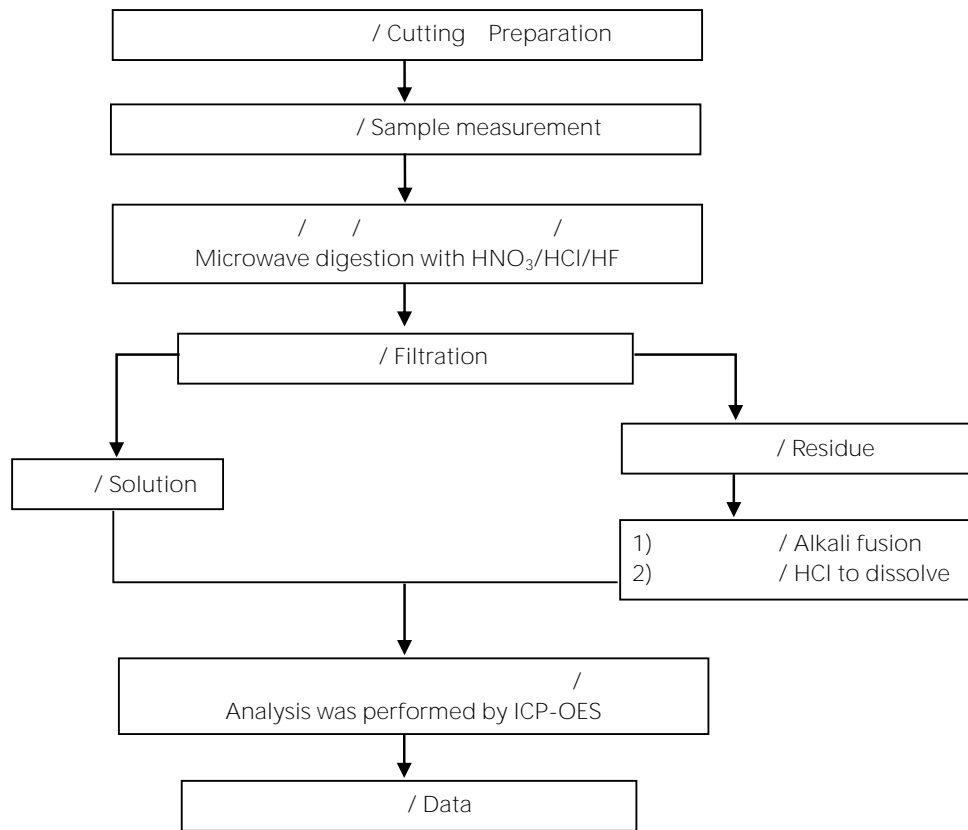
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6-8 (NO. 6-8, ZHONGHUA RD., SHULIN DIST., NEW TAIPEI CITY 23860, TAIWAN)

() / Analytical flow chart of elements (Heavy metal included)

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

/Reference method US EPA 3051A US EPA 3052



* US EPA 3051A

/ US EPA 3051A method does not add HF.

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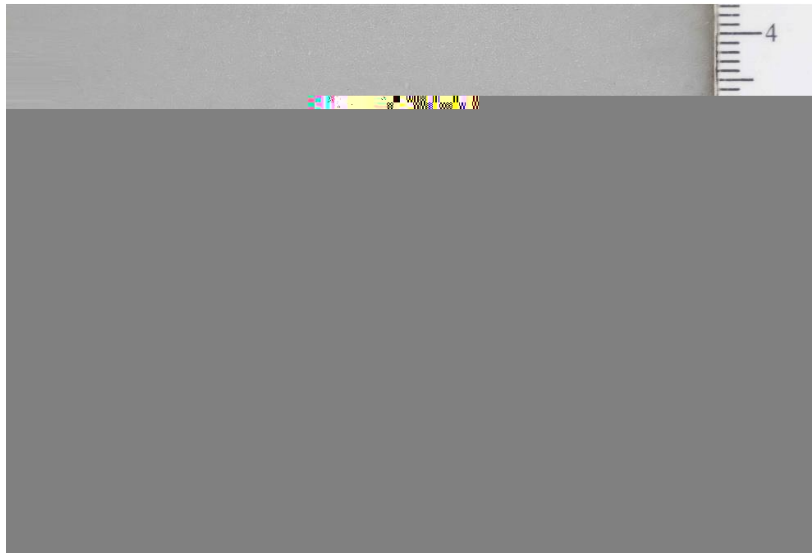
(EVERLIGHT ELECTRONICS CO., LTD.)

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

* / *

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

ETR24900350



** (End of Report) **

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