

# Test Report

No. NGBEC2102780501

Date: 16 Jun 2021

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ZHONGLE ELECTRONICS CO.,LTD.

NO 68,ZHUJIANG ROAD,WENZHOU BRIDGE INDUSTRIAL ZONE,BEIBAIXIANG TOWN,YUEQING CITY,ZHEJIANG PROVINCE,CHINA

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

SGS Job No. : NP21-002941 - NB  
 Model No. : XH  
 Main Substance : PA66  
 Client Ref. Information : See attachment  
 Date of Sample Received : 09 Jun 2021  
 Testing Period : 09 Jun 2021 - 16 Jun 2021  
 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).

Result Summary :

| Test Requested   | Conclusion  |
|--|-------------|
| RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU | See Results |
| Halogen  | See Results |
| per- and polyfluoroalkyl substances (PFASs)                            | See Results |
| Phthalates   | See Results |
| Polycyclics Aromatic Hydrocarbons (PAHs)                               | PASS        |

Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, 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.



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

Tony Li

Tony Li  
Approved Signatory

scan to see the report



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Test Results :

### Test Part Description :

| Specimen No. | SGS Sample ID    | Description |
|--------------|------------------|-------------|
| SN1          | NGB21-027805.001 | White solid |

Remarks :

- (1) 1 mg/kg = 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+AMD1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC 62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS.

| Test Item(s)                 | Limit | Unit  | MDL | 001 |
|------------------------------|-------|-------|-----|-----|
| 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  |
| Sum of PBBs                  | 1000  | 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                 | 1000  | mg/kg | -   | ND  |
| Monobromodiphenyl ether      | -     | mg/kg | 5   | ND  |
| Dibromodiphenyl ether        | -     | mg/kg | 5   | ND  |
| Tribromodiphenyl ether       | -     | mg/kg | 5   | ND  |
| Tetrabromodiphenyl ether     | -     | mg/kg | 5   | ND  |
| Pentabromodiphenyl ether     | -     | mg/kg | 5   | ND  |
| Hexabromodiphenyl ether      | -     | mg/kg | 5   | ND  |
| Heptabromodiphenyl ether     | -     | mg/kg | 5   | ND  |



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| <u>Test Item(s)</u>               | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|-----------------------------------|--------------|-------------|------------|------------|
| Octabromodiphenyl ether           | -            | mg/kg       | 5          | ND         |
| Nonabromodiphenyl ether           | -            | mg/kg       | 5          | ND         |
| Decabromodiphenyl ether           | -            | mg/kg       | 5          | ND         |
| Di-butyl 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 Phthalates (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

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

(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.

### Halogen

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

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

### per- and polyfluoroalkyl substances (PFASs)

Test Method : With reference to CEN/TS 15968:2010, analysis was performed by HPLC-MS.

| <u>Test Item(s)</u>                            | <u>CAS NO.</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|--|----------------|-------------|------------|------------|
| Perfluorooctane Sulfonates (PFOS) <sup>^</sup> | 1763-23-1      | mg/kg       | 0.05       | ND         |
| Perfluorooctanoic Acid (PFOA) <sup>+</sup>     | 335-67-1       | mg/kg       | 0.025      | ND         |

### Notes :

(1)<sup>^</sup> PFOS refer to its salts / derivative including PFOS(CAS No.: 1763-23-1), PFOS-K (CAS No.:



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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-N(C<sub>10</sub>H<sub>21</sub>)<sub>2</sub>(CH<sub>3</sub>)<sub>2</sub> (CAS No. 251099-16-8) and POSF (CAS No.: 307-35-7)

(2)+ PFOA refer to its salts including PFOA(CAS No.: 335-67-1), 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).

### Phthalates

Test Method : With reference to EN14372: 2004, analysis was performed by GC-MS.

| <u>Test Item(s)</u>               | <u>CAS NO.</u>        | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|-----------------------------------|-----------------------|-------------|------------|------------|
| Dibutyl Phthalate (DBP)           | 84-74-2               | %           | 0.003      | ND         |
| Benzylbutyl Phthalate (BBP)       | 85-68-7               | %           | 0.003      | ND         |
| Bis(2-ethylhexyl) Phthalate(DEHP) | 117-81-7              | %           | 0.003      | ND         |
| Diisononyl Phthalate (DINP)       | 28553-12-0/68515-48-0 | %           | 0.01       | ND         |
| Di-n-octyl Phthalate (DNOP)       | 117-84-0              | %           | 0.003      | ND         |
| Diisodecyl Phthalate (DIDP)       | 26761-40-0/68515-49-1 | %           | 0.01       | ND         |
| Dimethyl Phthalate (DMP)          | 131-11-3              | %           | 0.003      | ND         |
| Diethyl Phthalate (DEP)           | 84-66-2               | %           | 0.003      | ND         |
| Diisobutyl Phthalate (DIBP)       | 84-69-5               | %           | 0.003      | ND         |
| Dinonyl Phthalate (DNP)           | 84-76-4               | %           | 0.003      | ND         |
| Diisooctyl Phthalate (DIOP)       | 27554-26-3            | %           | 0.01       | ND         |
| Dipropyl Phthalate (DPrP)         | 131-16-8              | %           | 0.003      | ND         |
| Dicyclohexyl Phthalate (DCHP)     | 84-61-7               | %           | 0.003      | ND         |
| Di-n-pentyl Phthalate (DnPP)      | 131-18-0              | %           | 0.003      | ND         |
| Dibenzyl Phthalate (DBzP)         | 523-31-9              | %           | 0.003      | ND         |
| Diphenyl Phthalate (DPhP)         | 84-62-8               | %           | 0.003      | ND         |

### Polycyclics Aromatic Hydrocarbons (PAHs)

Test Method : With reference to AfPS GS 2019:01 PAK, analysis was performed by GC-MS.

| <u>Test Item(s)</u>       | <u>Unit</u> | <u>MDL</u> | <u>001</u> |
|---------------------------|-------------|------------|------------|
| Benzo(a)pyrene(BaP)       | mg/kg       | 0.1        | ND         |
| Benzo(e)pyrene(BeP)       | mg/kg       | 0.1        | ND         |
| Benzo(a)anthracene(BaA)   | mg/kg       | 0.1        | ND         |
| Benzo(b)fluoranthene(BbF) | mg/kg       | 0.1        | ND         |
| Benzo(j)fluoranthene(BjF) | mg/kg       | 0.1        | ND         |



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| Test Item(s)  | Unit  | MDL | 001         |
|---|-------|-----|-------------|
| Benzo(k)fluoranthene(BkF)   | mg/kg | 0.1 | ND          |
| Chrysene(CHR)   | mg/kg | 0.1 | ND          |
| Dibenzo(a,h)anthracene(DBA)   | mg/kg | 0.1 | ND          |
| Benzo(g,h,i)perylene(BPE)   | mg/kg | 0.1 | ND          |
| Indeno(1,2,3-c,d)pyrene(IPY)  | mg/kg | 0.1 | ND          |
| Phenanthrene(PHE)   | mg/kg | 0.1 | ND          |
| Pyrene(PYR)   | mg/kg | 0.1 | ND          |
| Anthracene(ANT)   | mg/kg | 0.1 | ND          |
| Fluoranthene(FLT)   | mg/kg | 0.1 | ND          |
| Sum of Phenanthrene(PHE), Pyrene(PYR), Anthracene(ANT), Fluoranthene(FLT) | mg/kg | -   | ND          |
| Naphthalene(NAP)  | mg/kg | 0.1 | ND          |
| Sum of 15 PAHs  | mg/kg | -   | ND          |
| Material Category   | -     | -   | 2           |
| <b>Conclusion</b>   |       |     | <b>PASS</b> |

Notes :

As per client information, the tested sample is not children product which is under the directive of ProdSG.



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

| Parameter   | Category 1   | Category 2   |                              | Category 3              |   |                              |
|---|--|--|------------------------------|-------------------------|---|------------------------------|
|   | Materials, that are destined in mouth closed or material in toys according to Directive 2009/48 EC or materials in articles for use by children up to 3 years with longer term according to skin contact (longer than 30s) at intended use | Materials not covered in category 1, with foreseeable contact to skin longer than 30 seconds (long-term skin contact) or repeated short term skin contact at intended or foreseeable use | Used by Children (<14 years) | Other Consumer Products | Materials that do not fall in category 1 or 2, with foreseeable contact to skin up to 30 seconds (short-term skin contact) at intended or foreseeable use | Used by Children (<14 years) |
| 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   |                              |
| 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  |                              |



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Attachment:

NH1.0 SH1.0 SHL1.0 1.0 1.25 DF14 GH ZH ZHD PH PA PHSD DF11 51146 FI-S XHE PHD  
YH200 SMH200 SMH200-H 20039WR dubang2.0 20300 XH/TJC3 XA HA XHB XHS EH 51102  
51022 SZN SAN SCN SCND JC15 JC20 JC25 250 LGC CH2.5 EI/Xiao4P S11 HR xiankou  
YH025 35155 5102 5240 SMH250 SMP250 SMW250 25048HS 25045HP SM TJC8/dubang2.0  
TJC8/dubang2.54 TJC8B TJC8H TJC8A/dubang-S 5051/2510 543 meishangmei CH10 25415  
43645 43020 43025 43640 5500 5600 VH VHRR/YH396 VHR VH-BH 35156 2139/3.96 90331  
5195 5196 39612 FL 5557 5559 5569 5566 42474 42475 SL RV42 CL014/OTP EL QH NV  
50300 50310 8981/Da4P 5058/5.08 5197 5198 5025 L6.2 VL VLP/VLR 3191 5199 TJC2  
TJC2A TJC2B STV5 YHL500 YWL500 TJC4 TJC1 SMF Cy-X201/35108 35150 35151 35224  
35180 35965 1806 110 2.8 42021 42022 42002 6.3 35955 SA SCS 35189 35196 DF11 MX3.0  
1.58 51005 51006 BH3.5 BH4.0 XiaoEL 63080 187 51004 TJC15 DF13 D4081 D4082 D6301  
D6302 HY YL TJC8D SLR SLP MKH MKS JZ1.5 PHB 5264 SMD SYP SM-Suopian XHD  
XHD-Suopian SDN 1.25-Kongjie ZH-Kongjie PH-Kongjie SMH250-Kongjie XH-Kongjie  
XHB-Kongjie HY-Kongjie PHB-Kongjie VH-Kongjie



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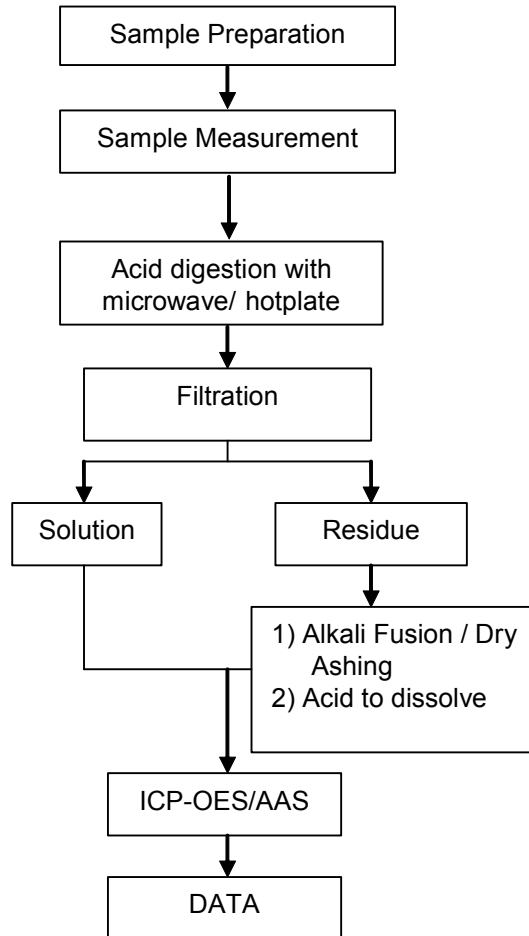
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ATTACHMENTS

Elements (IEC62321) Testing Flow Chart

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

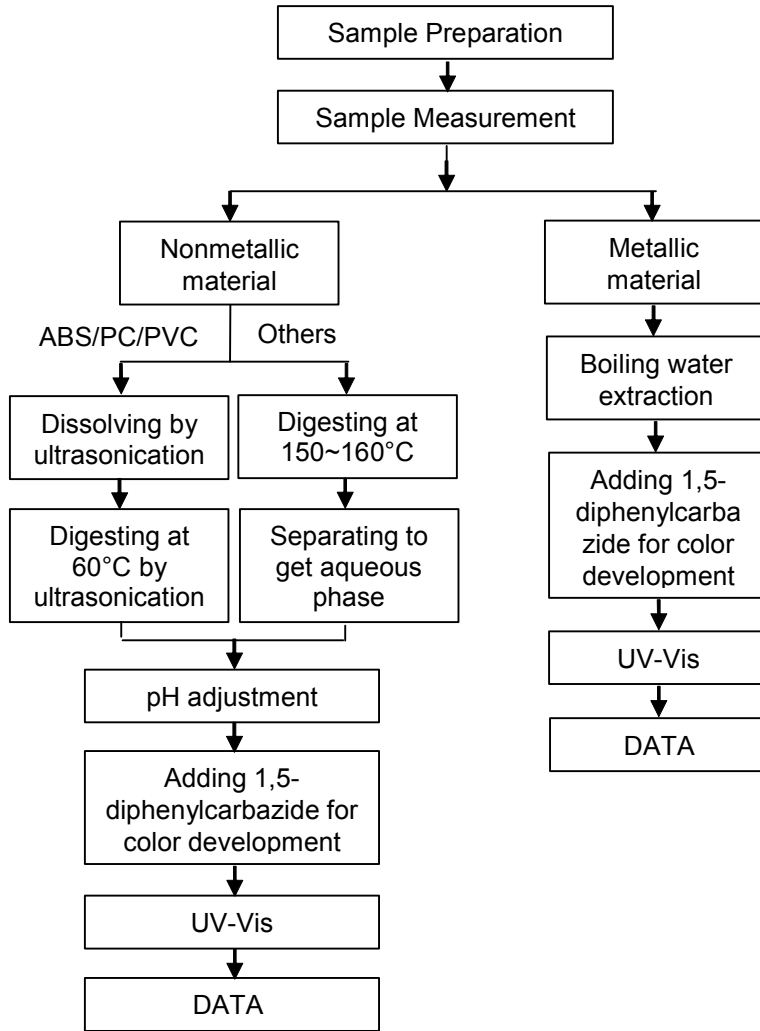


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart

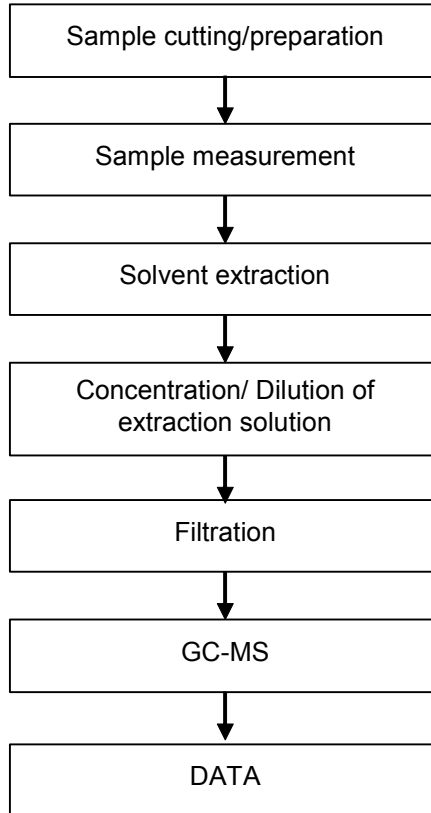


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### PBBs/PBDEs Testing Flow Chart

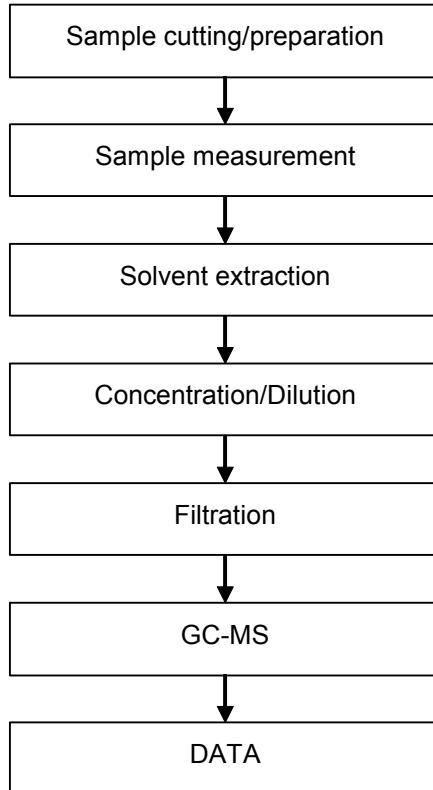


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### Phthalates Testing Flow Chart



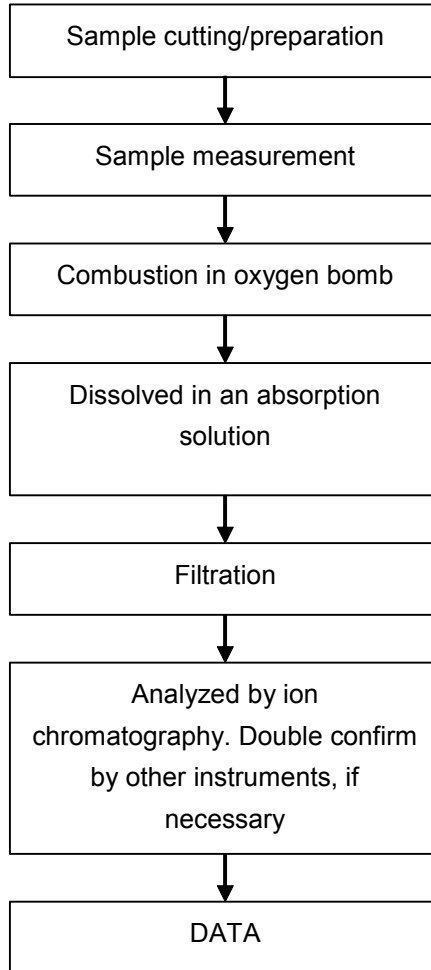
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**Halogen Testing (oxygen bomb) Flow Chart**

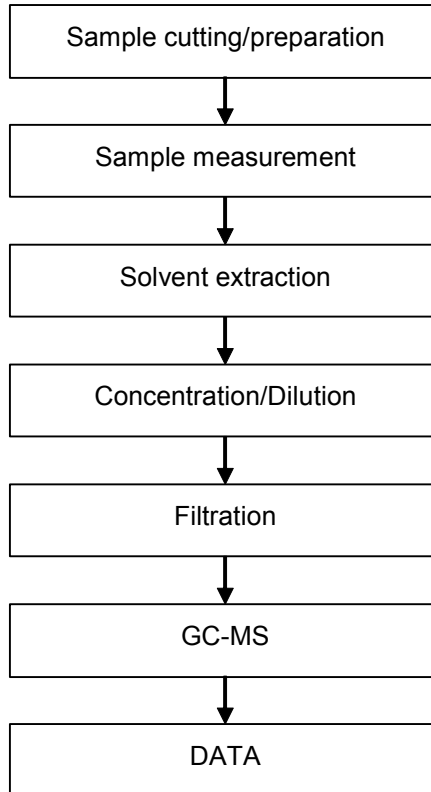


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### PAHs Testing Flow Chart

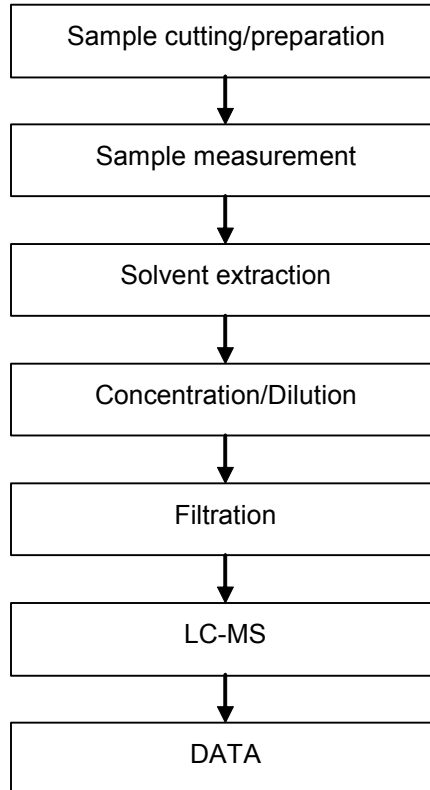


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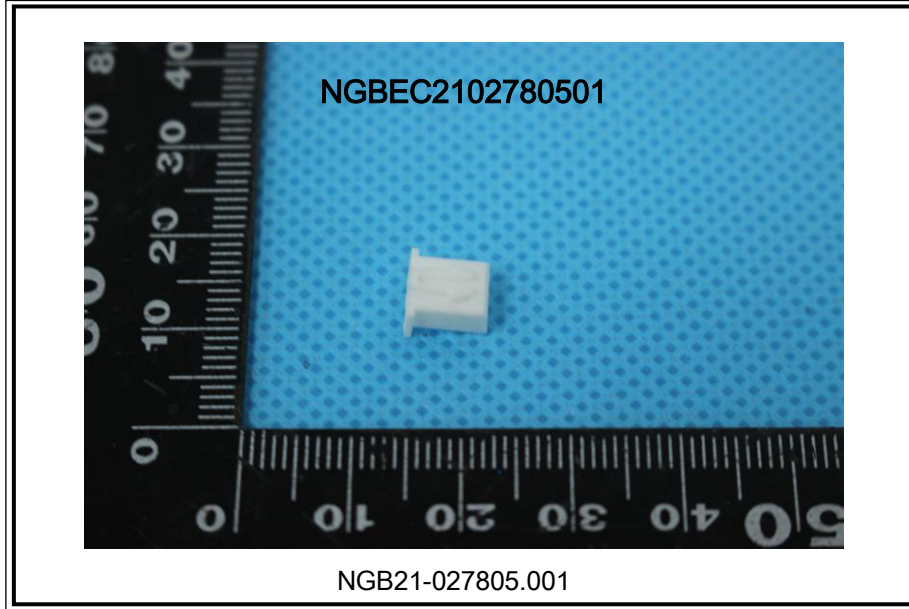
### PFASs Testing Flow Chart



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