



# TEST REPORT

Report No.:AZT250110028C-E0

Date of issue: January 17, 2025

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**Applicant** : China and South Korea's daewoo (shenzhen) industrial development Co.,Ltd  
**Address** : Whole Floor 201,Building B,No.63,Jixiang Road, Pingxi Community, Pingdi Street, Longgang District,Shenzhen City  
**Manufacturer** : China and South Korea's daewoo (shenzhen) industrial development Co.,Ltd  
**Address** : Whole Floor 201,Building B,No.63,Jixiang Road, Pingxi Community, Pingdi Street, Longgang District,Shenzhen City

Report on the submitted samples said to be:

**Sample Name** : Hydrogen production equipment  
**Tested model** : ZHDY-W11  
**Series models** : ZHDY-W12,ZHDY-W13,ZHDY-W15,ZHDY-W16,ZHDY-W17,ZHDY-W18, ZHDY-W19,ZHDY-W20,ZHDY-W21  
**Date of Sample Received** : January 10, 2025  
**Testing Period** : January 10, 2025 ~ January 17, 2025  
**Results** : Please refer to next page(s).

\*\*\*\*\*

## TEST REQUEST

## CONCLUSION

According to the customer's request, based on the performed tests on submitted sample, the result of Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, Dibutyl Phthalate (DBP), Benzyl butyl Phthalate (BBP), Bis(2-ethylhexyl) Phthalate (DEHP), Diisobutyl phthalate (DIBP) content comply with the limit as set of RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863.

Pass

\*\*\*\*\*

Signed for and on behalf of AZT



Jack Zhong



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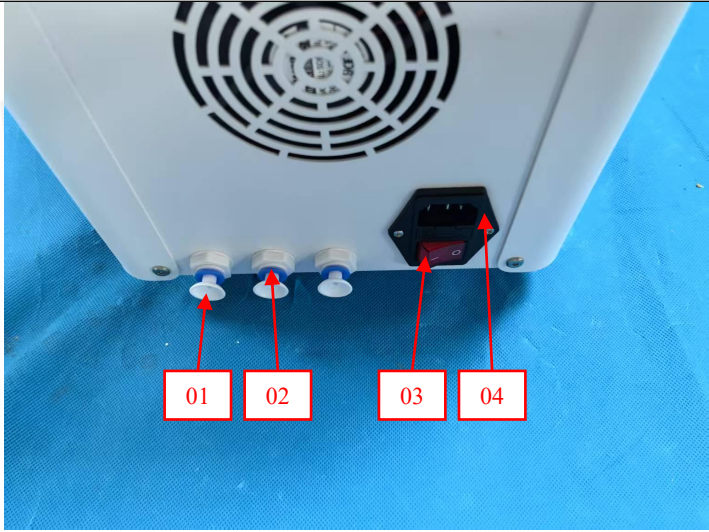
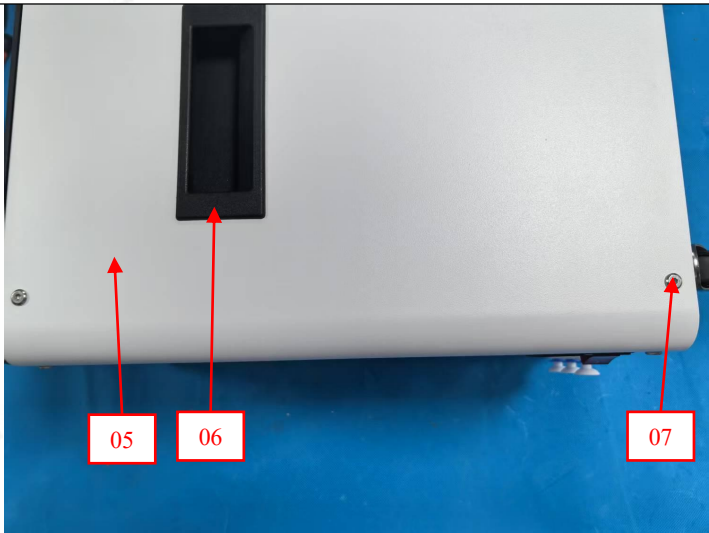
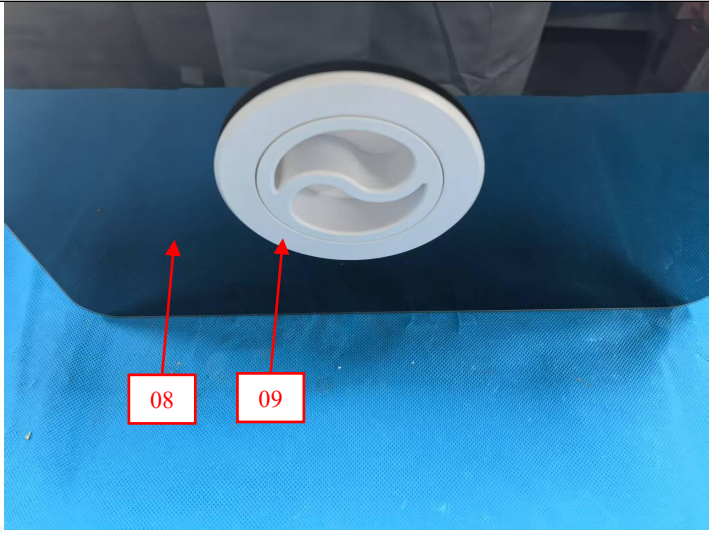
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## Test Item Description And Photo List

| No. | Tested Part(s)                         | The photo of the sample                                                              |
|-----|----------------------------------------|--------------------------------------------------------------------------------------|
| 01  | White plastic                          |    |
| 02  | Blue plastic                           |                                                                                      |
| 03  | Red plastic                            |                                                                                      |
| 04  | Black plastic                          |                                                                                      |
| 05  | Silvery metal shell with white coating |   |
| 06  | Black plastic                          |                                                                                      |
| 07  | Silvery metal screw                    |                                                                                      |
| 08  | Black glass                            |  |
| 09  | White plastic                          |                                                                                      |



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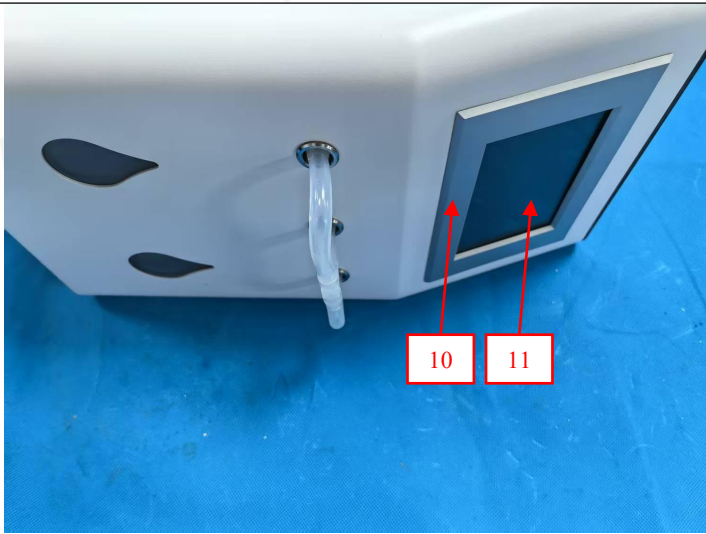
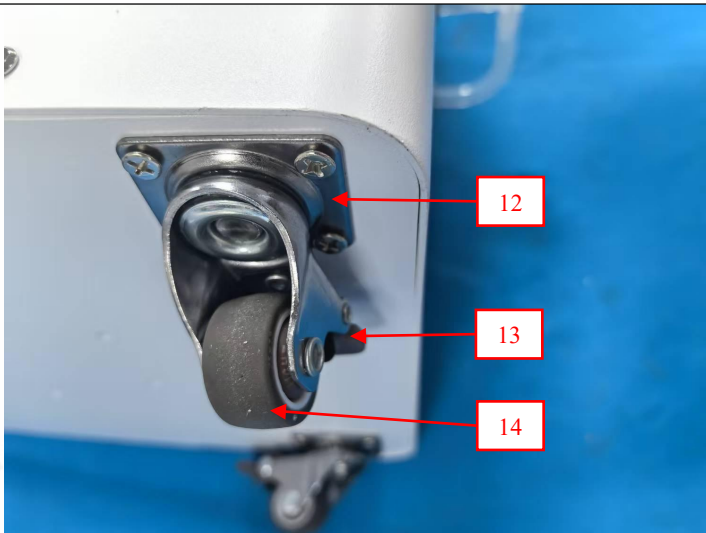
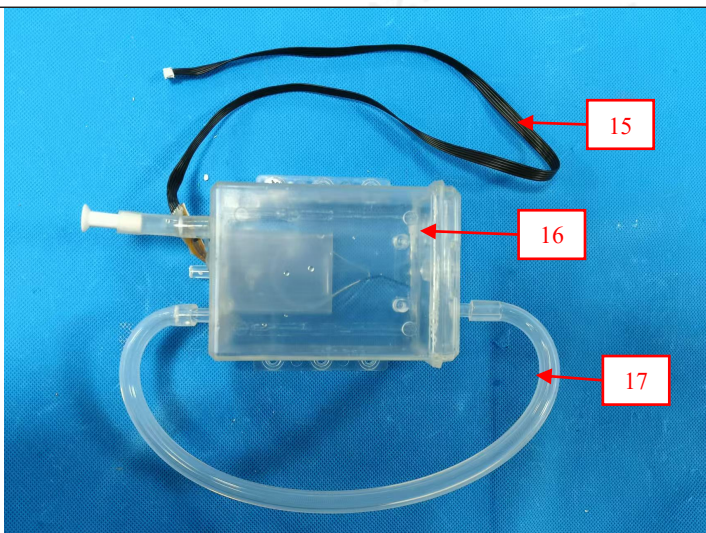


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| No. | Tested Part(s)                      | The photo of the sample                                                              |
|-----|-------------------------------------|--------------------------------------------------------------------------------------|
| 10  | White plastic with silvery coating  |    |
| 11  | Glass screen                        |                                                                                      |
| 12  | Silvery metal                       |   |
| 13  | Dark brown plastic                  |                                                                                      |
| 14  | Brown plastic                       |                                                                                      |
| 15  | Black wire jacket                   |  |
| 16  | Transparent plastic                 |                                                                                      |
| 17  | Translucent white soft plastic tube |                                                                                      |



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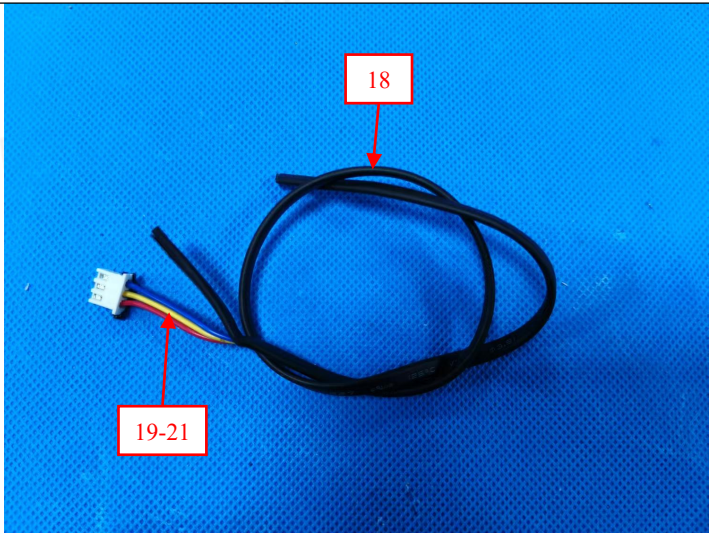
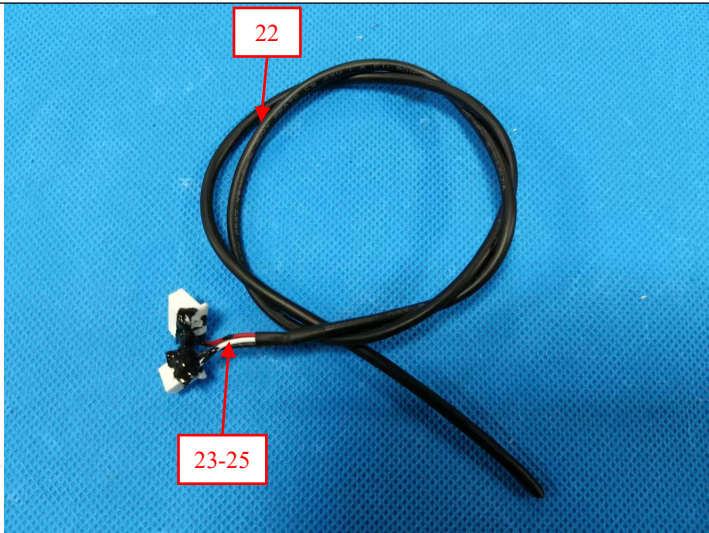
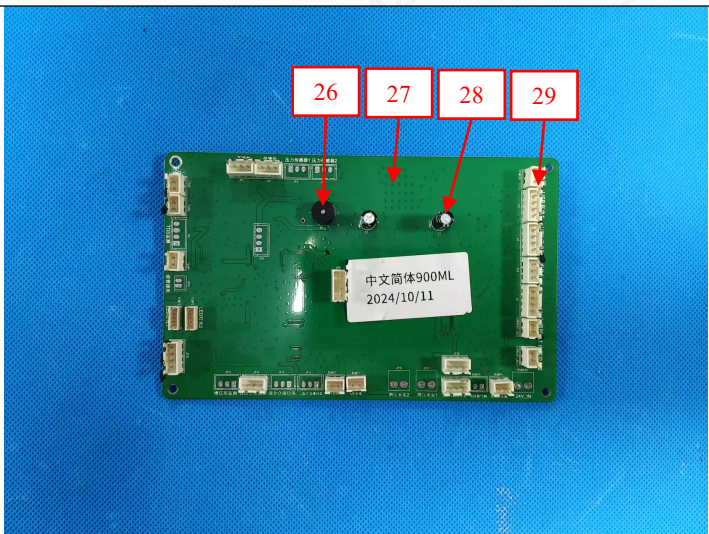


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| No. | Tested Part(s)                   | The photo of the sample                                                              |
|-----|----------------------------------|--------------------------------------------------------------------------------------|
| 18  | Black wire jacket                |    |
| 19  | Red wire jacket                  |                                                                                      |
| 20  | Yellow wire jacket               |                                                                                      |
| 21  | Blue wire jacket                 |                                                                                      |
| 22  | Black wire jacket                |   |
| 23  | Red wire jacket                  |                                                                                      |
| 24  | White wire jacket                |                                                                                      |
| 25  | Black wire jacket                |                                                                                      |
| 26  | Black plastic                    |  |
| 27  | Green PCB                        |                                                                                      |
| 28  | Black plastic with grey printing |                                                                                      |
| 29  | Beige plastic                    |                                                                                      |



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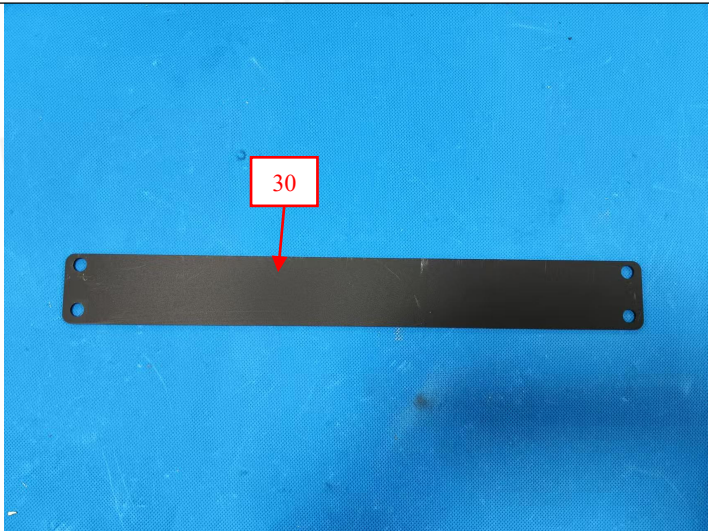
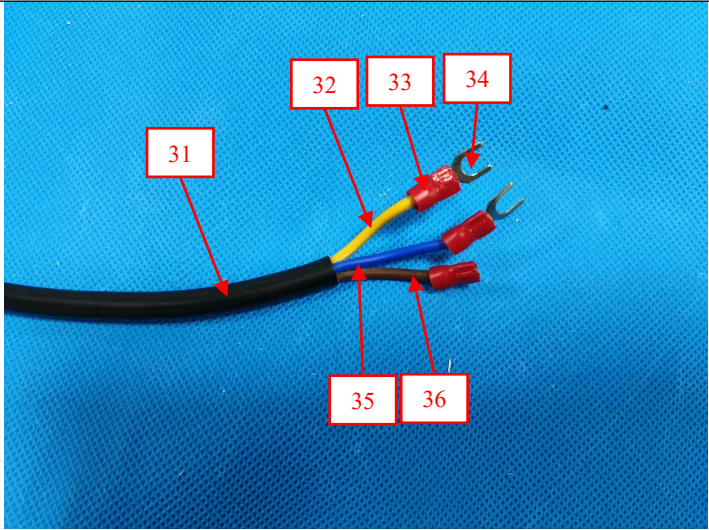
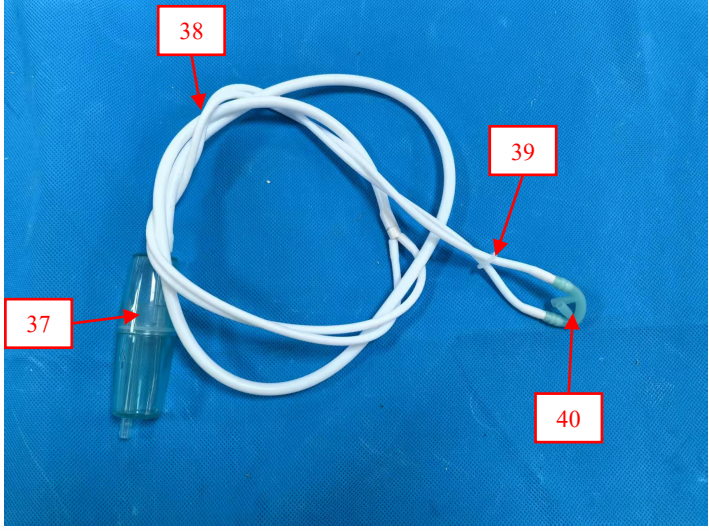


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| No. | Tested Part(s)           | The photo of the sample                                                              |
|-----|--------------------------|--------------------------------------------------------------------------------------|
| 30  | Black plastic            |    |
| 31  | Black wire jacket        |                                                                                      |
| 32  | Yellow wire jacket       |                                                                                      |
| 33  | Red plastic              |                                                                                      |
| 34  | Silvery metal            |                                                                                      |
| 35  | Blue wire jacket         |                                                                                      |
| 36  | Brown wire jacket        |   |
| 37  | Light green plastic      |                                                                                      |
| 38  | White soft plastic tube  |                                                                                      |
| 39  | White soft plastic ring  |                                                                                      |
| 40  | Light green soft plastic |  |



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| No. | Tested Part(s)     | The photo of the sample |
|-----|--------------------|-------------------------|
| 41  | Black soft plastic |                         |
| 42  | Black wire jacket  |                         |
| 43  | Black soft plastic |                         |
| 44  | White plastic      |                         |
| 45  | Silvery metal pin  |                         |





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## Results:

### A. RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863 on XRF

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

| No. | Tested Part(s)                         | Results |    |    |     |      |       |
|-----|----------------------------------------|---------|----|----|-----|------|-------|
|     |                                        | Cd      | Pb | Hg | Cr▼ | Br▼  |       |
|     |                                        |         |    |    |     | PBBs | PBDEs |
| 01  | White plastic                          | BL      | BL | BL | BL  | BL   | BL    |
| 02  | Blue plastic                           | BL      | BL | BL | BL  | BL   | BL    |
| 03  | Red plastic                            | BL      | BL | BL | BL  | BL   | BL    |
| 04  | Black plastic                          | BL      | BL | BL | BL  | BL   | BL    |
| 05  | Silvery metal shell with white coating | BL      | BL | BL | BL  | /    | /     |
| 06  | Black plastic                          | BL      | BL | BL | BL  | BL   | BL    |
| 07  | Silvery metal screw                    | BL      | BL | BL | BL  | /    | /     |
| 08  | Black glass                            | BL      | BL | BL | BL  | BL   | BL    |
| 09  | White plastic                          | BL      | BL | BL | BL  | BL   | BL    |
| 10  | White plastic with silvery coating     | BL      | BL | BL | BL  | BL   | BL    |
| 11  | Glass screen                           | BL      | BL | BL | BL  | BL   | BL    |
| 12  | Silvery metal                          | BL      | BL | BL | BL  | /    | /     |
| 13  | Dark brown plastic                     | BL      | BL | BL | BL  | BL   | BL    |
| 14  | Brown plastic                          | BL      | BL | BL | BL  | BL   | BL    |
| 15  | Black wire jacket                      | BL      | BL | BL | BL  | BL   | BL    |
| 16  | Transparent plastic                    | BL      | BL | BL | BL  | BL   | BL    |
| 17  | Translucent white soft plastic tube    | BL      | BL | BL | BL  | BL   | BL    |
| 18  | Black wire jacket                      | BL      | BL | BL | BL  | BL   | BL    |
| 19  | Red wire jacket                        | BL      | BL | BL | BL  | BL   | BL    |
| 20  | Yellow wire jacket                     | BL      | BL | BL | BL  | BL   | BL    |
| 21  | Blue wire jacket                       | BL      | BL | BL | BL  | BL   | BL    |
| 22  | Black wire jacket                      | BL      | BL | BL | BL  | BL   | BL    |
| 23  | Red wire jacket                        | BL      | BL | BL | BL  | BL   | BL    |
| 24  | White wire jacket                      | BL      | BL | BL | BL  | BL   | BL    |
| 25  | Black wire jacket                      | BL      | BL | BL | BL  | BL   | BL    |
| 26  | Black plastic                          | BL      | BL | BL | BL  | BL   | BL    |
| 27  | Green PCB                              | BL      | BL | BL | BL  | X    | X     |
| 28  | Black plastic with grey printing       | BL      | BL | BL | BL  | BL   | BL    |



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| No. | Tested Part(s)           | Results |    |    |     |      |       |
|-----|--------------------------|---------|----|----|-----|------|-------|
|     |                          | Cd      | Pb | Hg | Cr▼ | Br▼  |       |
|     |                          |         |    |    |     | PBBs | PBDEs |
| 29  | Beige plastic            | BL      | BL | BL | BL  | BL   | BL    |
| 30  | Black plastic            | BL      | BL | BL | BL  | BL   | BL    |
| 31  | Black wire jacket        | BL      | BL | BL | BL  | BL   | BL    |
| 32  | Yellow wire jacket       | BL      | BL | BL | BL  | BL   | BL    |
| 33  | Red plastic              | BL      | BL | BL | BL  | BL   | BL    |
| 34  | Silvery metal            | BL      | BL | BL | BL  | /    | /     |
| 35  | Blue wire jacket         | BL      | BL | BL | BL  | BL   | BL    |
| 36  | Brown wire jacket        | BL      | BL | BL | BL  | BL   | BL    |
| 37  | Light green plastic      | BL      | BL | BL | BL  | BL   | BL    |
| 38  | White soft plastic tube  | BL      | BL | BL | BL  | BL   | BL    |
| 39  | White soft plastic ring  | BL      | BL | BL | BL  | BL   | BL    |
| 40  | Light green soft plastic | BL      | BL | BL | BL  | BL   | BL    |
| 41  | Black soft plastic       | BL      | BL | BL | BL  | BL   | BL    |
| 42  | Black wire jacket        | BL      | BL | BL | BL  | BL   | BL    |
| 43  | Black soft plastic       | BL      | BL | BL | BL  | BL   | BL    |
| 44  | White plastic            | BL      | BL | BL | BL  | BL   | BL    |
| 45  | Silvery metal pin        | BL      | BL | BL | BL  | /    | /     |



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Note:

- (1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

## XRF screening limits for different materials:

| Element | Unit  | Non-metal                                            | Metal                                                | Composite Material                                   |
|---------|-------|------------------------------------------------------|------------------------------------------------------|------------------------------------------------------|
| Cd      | mg/kg | $BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$   | $BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$   | $BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$   |
| Pb      | mg/kg | $BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$ | $BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$ | $BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$ |
| Hg      | mg/kg | $BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$ | $BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$ | $BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$ |
| Cr      | mg/kg | $BL \leq 700 - 3\sigma < X$                          | $BL \leq 700 - 3\sigma < X$                          | $BL \leq 500 - 3\sigma < X$                          |
| Br      | mg/kg | $BL \leq 300 - 3\sigma < X$                          | --                                                   | $BL \leq 250 - 3\sigma < X$                          |

Note:

- BL=Below Limit
  - OL=Over Limit (Screening result was over limit, thus further confirmation test was conducted.)
  - X=Inconclusive(Screening result was inconclusive, thus further confirmation test was conducted.)
  - /=Not Applicable
  - mg/kg = milligram per kilogram = ppm
- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863.
- (4) ▼=For restricted substances PBBs and PBDEs, the results show the total Br content; The restricted substance was Cr (VI), and the results showed the total Cr content.



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| RoHS Restricted Substances             | Maximum Concentration Value (mg/kg)<br>(by weight in homogenous materials) |
|----------------------------------------|----------------------------------------------------------------------------|
| Cadmium (Cd)                           | 100                                                                        |
| Lead (Pb)                              | 1000                                                                       |
| Mercury (Hg)                           | 1000                                                                       |
| Hexavalent Chromium (Cr(VI))           | 1000                                                                       |
| Polybrominated biphenyls (PBBs)        | 1000                                                                       |
| Polybrominated diphenyl ethers (PBDEs) | 1000                                                                       |
| Dibutyl Phthalate (DBP)                | 1000                                                                       |
| Benzyl butyl Phthalate (BBP)           | 1000                                                                       |
| Bis(2-ethylhexyl) Phthalate (DEHP)     | 1000                                                                       |
| Diisobutyl Phthalate (DIBP)            | 1000                                                                       |

## Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.



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## **B. RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863 - Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content.**

### Test method:

#### Lead & Cadmium Content:

With reference to IEC 62321-5:2013, analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

#### Mercury Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES).

#### Hexavalent Chromium Content:

With reference to IEC 62321-7-1:2015& IEC 62321-7-2:2017, analysis was performed by UV-visible spectrophotometer (UV-Vis).

#### PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

#### DBP, BBP, DEHP, DIBP Content:

With reference to IEC 62321-8:2017, analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

### **1) The test results of DBP, BBP, DEHP & DIBP**

| Test Items                         | CAS No.  | Unit  | MDL | Results  |          | Limit |
|------------------------------------|----------|-------|-----|----------|----------|-------|
|                                    |          |       |     | 01+02+03 | 04+06+09 |       |
| Dibutyl Phthalate (DBP)            | 84-74-2  | mg/kg | 50  | N.D.     | N.D.     | 1000  |
| Benzyl butyl Phthalate (BBP)       | 85-68-7  | mg/kg | 50  | N.D.     | N.D.     | 1000  |
| Bis(2-ethylhexyl) Phthalate (DEHP) | 117-81-7 | mg/kg | 50  | N.D.     | N.D.     | 1000  |
| Diisobutyl Phthalate (DIBP)        | 84-69-5  | mg/kg | 50  | N.D.     | N.D.     | 1000  |

| Test Items                         | CAS No.  | Unit  | MDL | Results  |          | Limit |
|------------------------------------|----------|-------|-----|----------|----------|-------|
|                                    |          |       |     | 10+13+14 | 15+17+18 |       |
| Dibutyl Phthalate (DBP)            | 84-74-2  | mg/kg | 50  | N.D.     | 233      | 1000  |
| Benzyl butyl Phthalate (BBP)       | 85-68-7  | mg/kg | 50  | N.D.     | N.D.     | 1000  |
| Bis(2-ethylhexyl) Phthalate (DEHP) | 117-81-7 | mg/kg | 50  | N.D.     | 108      | 1000  |
| Diisobutyl Phthalate (DIBP)        | 84-69-5  | mg/kg | 50  | N.D.     | N.D.     | 1000  |

| Test Items                         | CAS No.  | Unit  | MDL | Results  |          | Limit |
|------------------------------------|----------|-------|-----|----------|----------|-------|
|                                    |          |       |     | 16+27+29 | 19+20+21 |       |
| Dibutyl Phthalate (DBP)            | 84-74-2  | mg/kg | 50  | N.D.     | 231      | 1000  |
| Benzyl butyl Phthalate (BBP)       | 85-68-7  | mg/kg | 50  | N.D.     | N.D.     | 1000  |
| Bis(2-ethylhexyl) Phthalate (DEHP) | 117-81-7 | mg/kg | 50  | N.D.     | N.D.     | 1000  |
| Diisobutyl Phthalate (DIBP)        | 84-69-5  | mg/kg | 50  | N.D.     | N.D.     | 1000  |



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| Test Items                         | CAS No.  | Unit  | MDL | Results |          | Limit |
|------------------------------------|----------|-------|-----|---------|----------|-------|
|                                    |          |       |     | 22+31   | 23+24+25 |       |
| Dibutyl Phthalate (DBP)            | 84-74-2  | mg/kg | 50  | 199     | 251      | 1000  |
| Benzyl butyl Phthalate (BBP)       | 85-68-7  | mg/kg | 50  | N.D.    | N.D.     | 1000  |
| Bis(2-ethylhexyl) Phthalate (DEHP) | 117-81-7 | mg/kg | 50  | N.D.    | N.D.     | 1000  |
| Diisopbutyl Phthalate (DIBP)       | 84-69-5  | mg/kg | 50  | N.D.    | N.D.     | 1000  |

| Test Items                         | CAS No.  | Unit  | MDL | Results  |          | Limit |
|------------------------------------|----------|-------|-----|----------|----------|-------|
|                                    |          |       |     | 30+33+37 | 32+35+36 |       |
| Dibutyl Phthalate (DBP)            | 84-74-2  | mg/kg | 50  | N.D.     | 233      | 1000  |
| Benzyl butyl Phthalate (BBP)       | 85-68-7  | mg/kg | 50  | N.D.     | N.D.     | 1000  |
| Bis(2-ethylhexyl) Phthalate (DEHP) | 117-81-7 | mg/kg | 50  | N.D.     | 211      | 1000  |
| Diisopbutyl Phthalate (DIBP)       | 84-69-5  | mg/kg | 50  | N.D.     | N.D.     | 1000  |

| Test Items                         | CAS No.  | Unit  | MDL | Results  |          | Limit |
|------------------------------------|----------|-------|-----|----------|----------|-------|
|                                    |          |       |     | 38+39+40 | 41+42+43 |       |
| Dibutyl Phthalate (DBP)            | 84-74-2  | mg/kg | 50  | N.D.     | 262      | 1000  |
| Benzyl butyl Phthalate (BBP)       | 85-68-7  | mg/kg | 50  | N.D.     | N.D.     | 1000  |
| Bis(2-ethylhexyl) Phthalate (DEHP) | 117-81-7 | mg/kg | 50  | N.D.     | 238      | 1000  |
| Diisopbutyl Phthalate (DIBP)       | 84-69-5  | mg/kg | 50  | N.D.     | N.D.     | 1000  |



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## 2) The test results of PBBs & PBDEs

| Test Items                             | Unit  | MDL | Results | Limit |
|----------------------------------------|-------|-----|---------|-------|
|                                        |       |     | 27      |       |
| Polybrominated Biphenyls (PBBs)        |       |     |         |       |
| Monobromobiphenyl                      | mg/kg | 50  | N.D.    | /     |
| Dibromobiphenyl                        | mg/kg | 50  | N.D.    | /     |
| Tribromobiphenyl                       | mg/kg | 50  | N.D.    | /     |
| Tetrabromobiphenyl                     | mg/kg | 50  | N.D.    | /     |
| Pentabromobiphenyl                     | mg/kg | 50  | N.D.    | /     |
| Hexabromobiphenyl                      | mg/kg | 50  | N.D.    | /     |
| Heptabromobiphenyl                     | mg/kg | 50  | N.D.    | /     |
| Octabromobiphenyl                      | mg/kg | 50  | N.D.    | /     |
| Nonabromodiphenyl                      | mg/kg | 50  | N.D.    | /     |
| Decabromodiphenyl                      | mg/kg | 50  | N.D.    | /     |
| Total content                          | mg/kg | /   | N.D.    | 1000  |
| Polybrominated Diphenyl ethers (PBDEs) |       |     |         |       |
| Monobromodiphenyl ether                | mg/kg | 50  | N.D.    | /     |
| Dibromodiphenyl ether                  | mg/kg | 50  | N.D.    | /     |
| Tribromodiphenyl ether                 | mg/kg | 50  | N.D.    | /     |
| Tetrabromodiphenyl ether               | mg/kg | 50  | N.D.    | /     |
| Pentabromodiphenyl ether               | mg/kg | 50  | N.D.    | /     |
| Hexabromodiphenyl ether                | mg/kg | 50  | N.D.    | /     |
| Heptabromodiphenyl ether               | mg/kg | 50  | N.D.    | /     |
| Octabromodiphenyl ether                | mg/kg | 50  | N.D.    | /     |
| Nonabromodiphenyl ether                | mg/kg | 50  | N.D.    | /     |
| Decabromodiphenyl ether                | mg/kg | 50  | N.D.    | /     |
| Total content                          | mg/kg | /   | N.D.    | 1000  |

Remark:

- mg/kg = milligram per kilogram = ppm
- N.D. = Not detected
- MDL= Method detected limited
- The samples were mixed for phthalic acid test
- Tested part(s) was/were specified by client
- Flow chart appendix is included
- Photo appendix is included



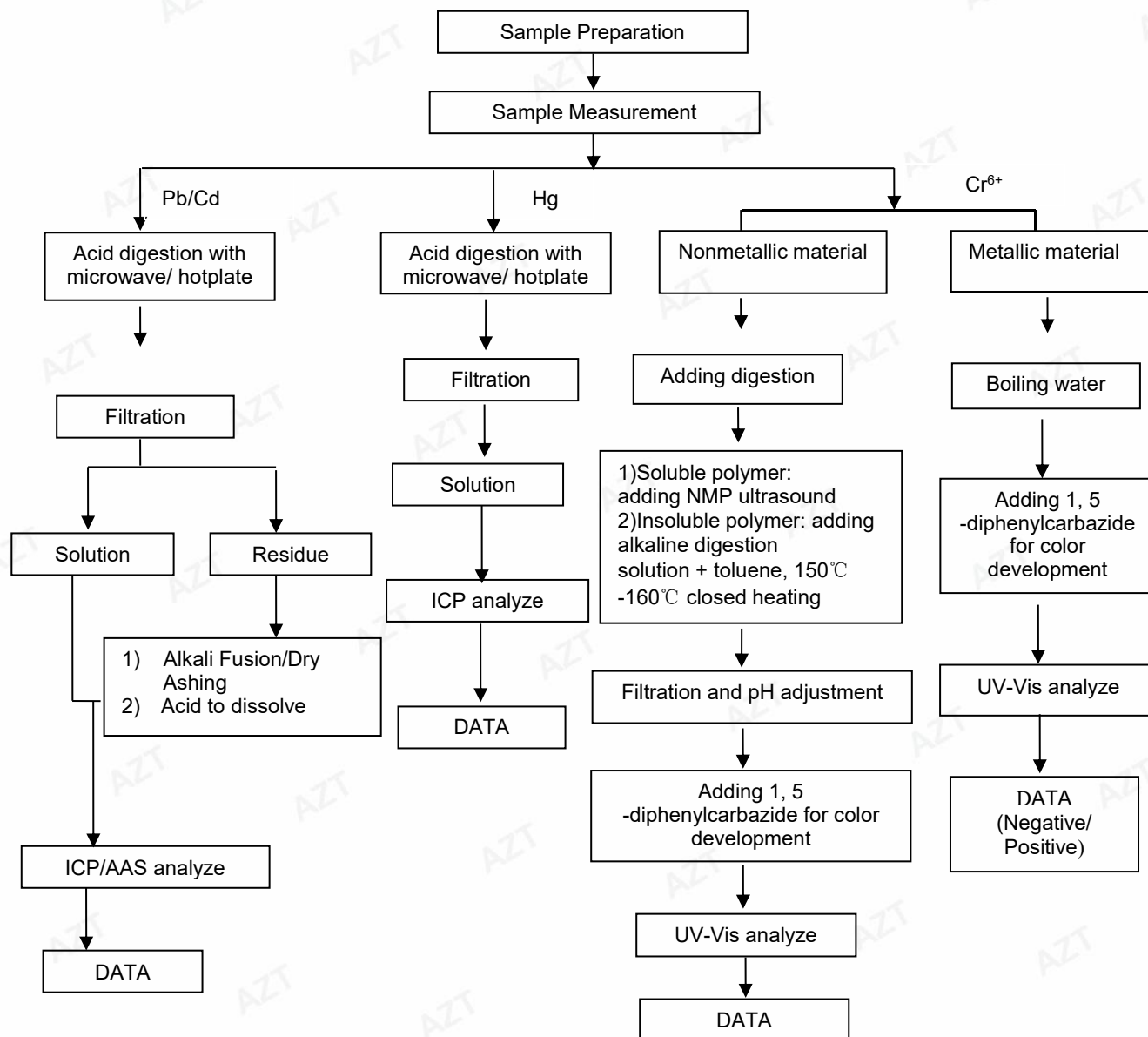
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Tel: 0755-23501189; E-mail: azt-ep@azt-tech.com; Http: www.azt-tech.com

# TEST REPORT

## Appendix

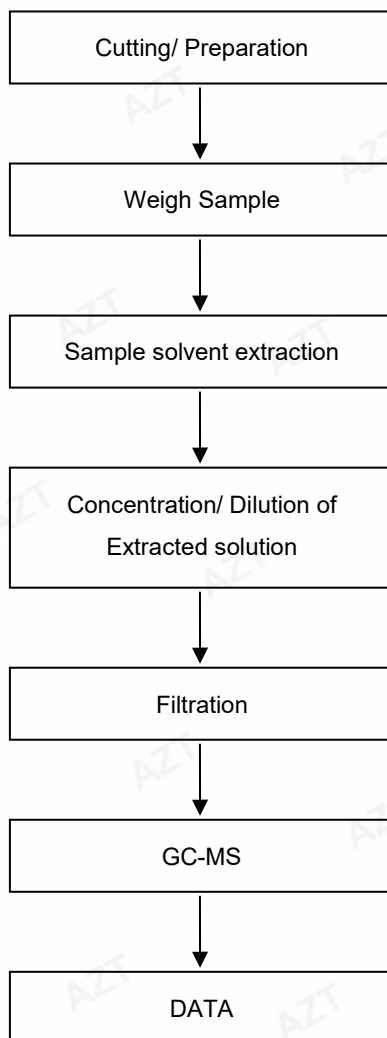
### Pb/Cd/Hg/Cr<sup>6+</sup> Testing Flow Chart





# TEST REPORT

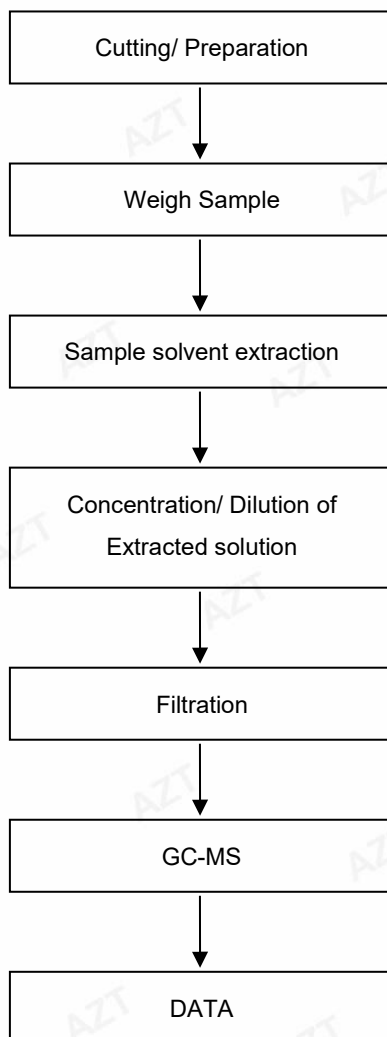
## PBBs/PBDEs Testing Flow Chart





# TEST REPORT

## Phthalates Testing Flow Chart





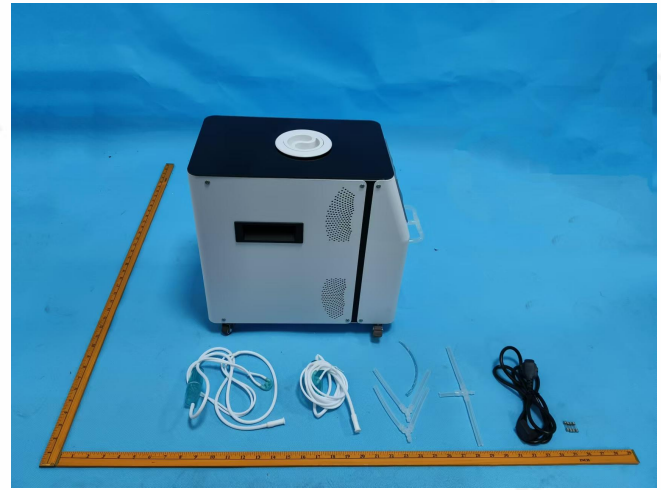
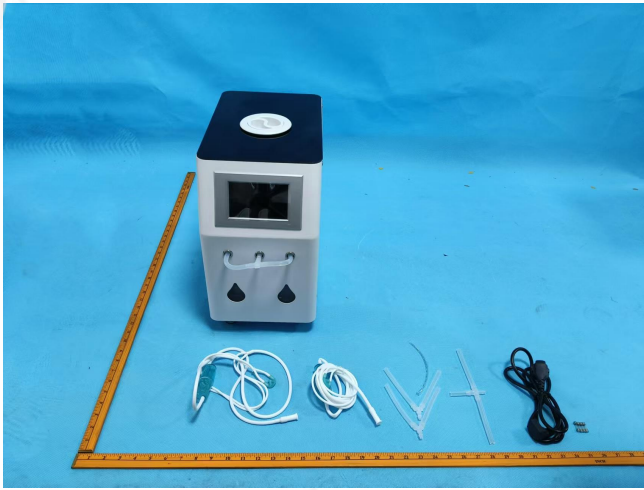
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## The photo of the sample



AZT authenticate the photo on original report only

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



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