



TEST REPORT

Report No.: AZT250829079C-E0

Date of issue: September 09, 2025

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Applicant : KST MEIZHOU COMPANY LIMITED
Address : Building B, Jinhang Science and Technology Park, No. 3 Luole East Road,
Meizhou Economic Development Zone, Meijiang District, Meizhou,
Guangdong
Manufacturer : KST MEIZHOU COMPANY LIMITED
Address : Building B, Jinhang Science and Technology Park, No. 3 Luole East Road,
Meizhou Economic Development Zone, Meijiang District, Meizhou,
Guangdong

Report on the submitted samples said to be:

Sample Name : Brushless servo

Trade Mark : 

Tested model : A15-1812

Series models : A16-1812, HLS15T-6.0, HLS15T-12, HS15T-12, HS15T-6.0, BLS88WP,
X12-708, X15-1208, X15-1809, X15-855X, BLS505, BLS505X, HS08-6.0-P,
HS08S, X15-7.4-M-1812-3.1, X15-7.4-M-1812-3.2, X15-7.4-M-1812-4,
HS10-06-P-0423-1, HS10-06-P-0423-2, HS10-06-P-0423-3.1,
HS10-06-P-0423-3.2, HS10-06-P-0423-4, HS10-12-P-0411-1,
HS10-12-P-0411-2, HS10-12-P-0411-3.1, HS10-12-P-0411-3.2,
HS10-12-P-0411-4, HS10-12-M-0423-1, HS10-12-M-0423-2,
HS10-12-M-0423-3.1, HS10-12-M-0423-3.2, HS10-12-M-0423-4,
HS12WP-12-P-0423-1, HS12WP-12-P-0423-2, HS12WP-12-P-0423-3.1,
HS12WP-12-P-0423-3.2, HS12WP-12-P-0423-4, HS15-12-M-0615-1,
HS15-12-M-0615-2, HS15-12-M-0615-3.1, HS15-12-M-0615-3.2,
HS15-12-M-0615-4, HS15-12-M-1220-1, HS15-12-M-1220-2,
HS15-12-M-1220-3.1, HS15-12-M-1220-3.2, HS15-12-M-1220-4, X15-1809A

Date of Sample Received : August 29, 2025

Testing Period : August 29, 2025 ~ September 09, 2025

Results : Please refer to next page(s).

Signed for and on behalf of AZT

Jack Zhong



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No.502, Building 1, Yibaolai Industrial City, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
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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



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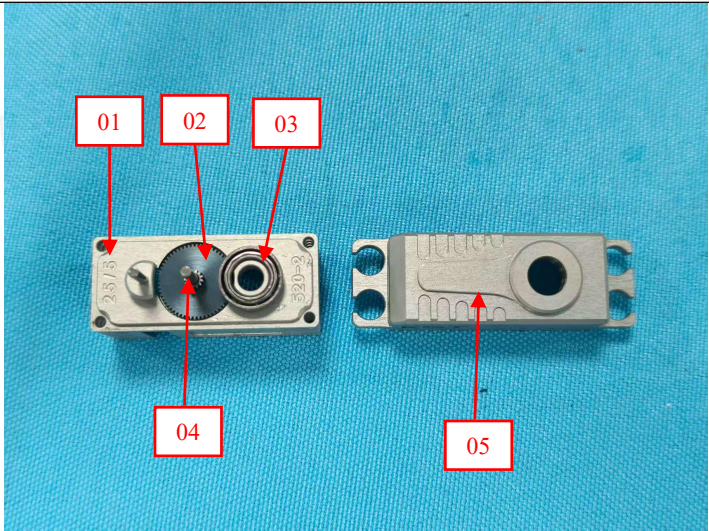
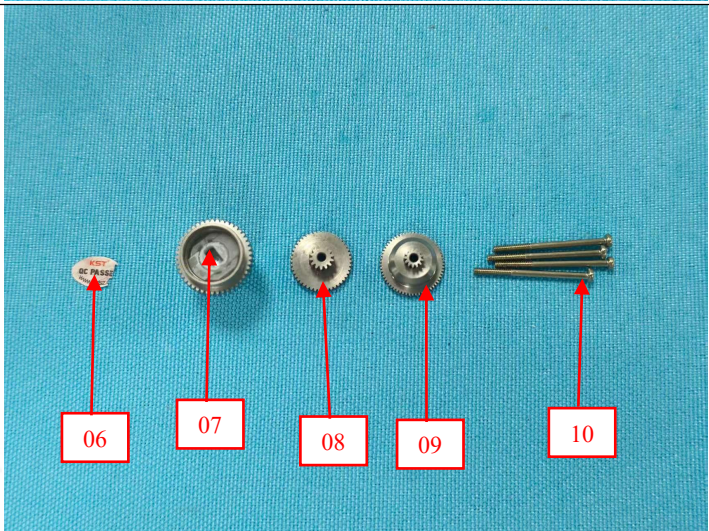
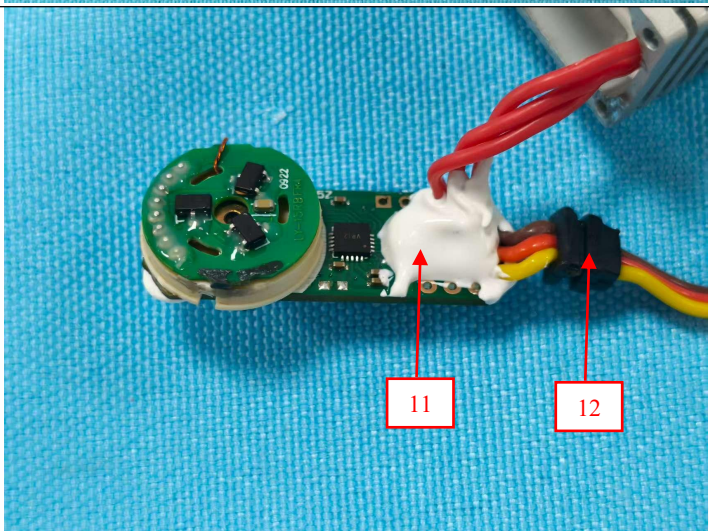
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Test Item Description And Photo List

No.	Tested Part(s)	The photo of the sample
01	Silvery metal shell	
02	Dark blue metal	
03	Silvery metal	
04	Silvery metal	
05	Silvery metal shell	
06	White label with black/red printing	
07	White plastic	
08	Silvery metal	
09	Silvery metal	
10	Silvery metal screw	
11	White glue	
12	Black soft plastic	



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No.	Tested Part(s)	The photo of the sample
13	Silvery metal	
14	Silvery metal	
15	Silvery metal magnet	
16	White plastic	
17	Light brown plastic	
18	Copper metal	
19	Green PCB	
20	Silvery soldering tin	
21	Silvery metal	
22	Copper metal coil	
23	Light brown plastic	
24	IC	
25	Chip resistor	
26	Silvery metal crystal oscillator	
27	Silvery soldering tin	
28	Green PCB	
29	IC	
30	Chip capacitor	



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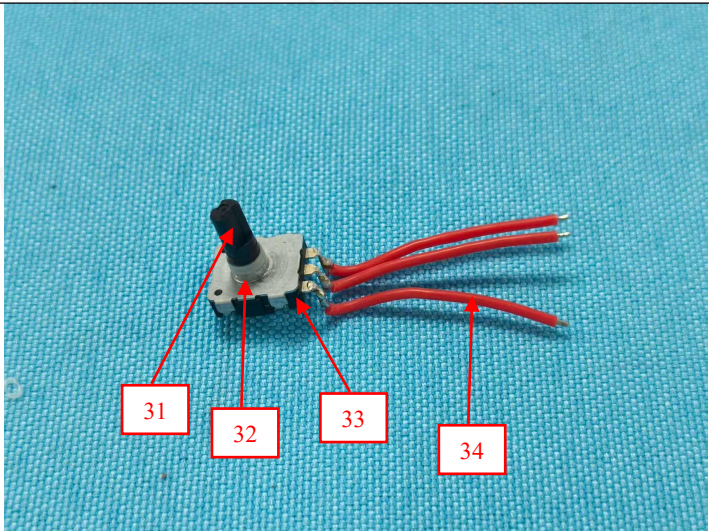
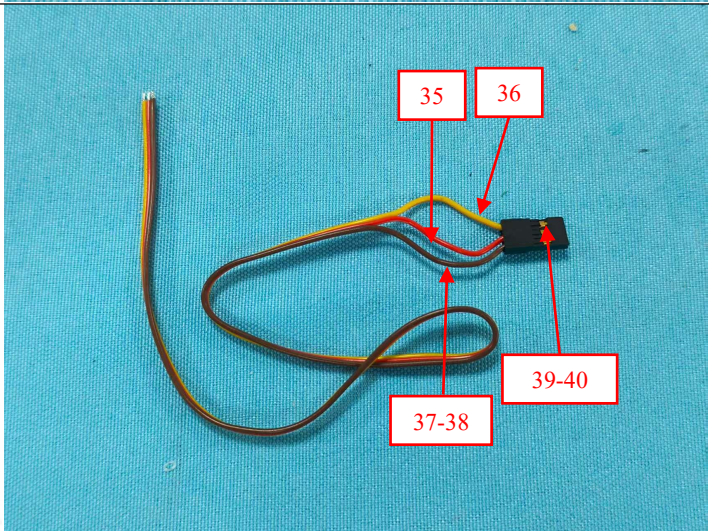
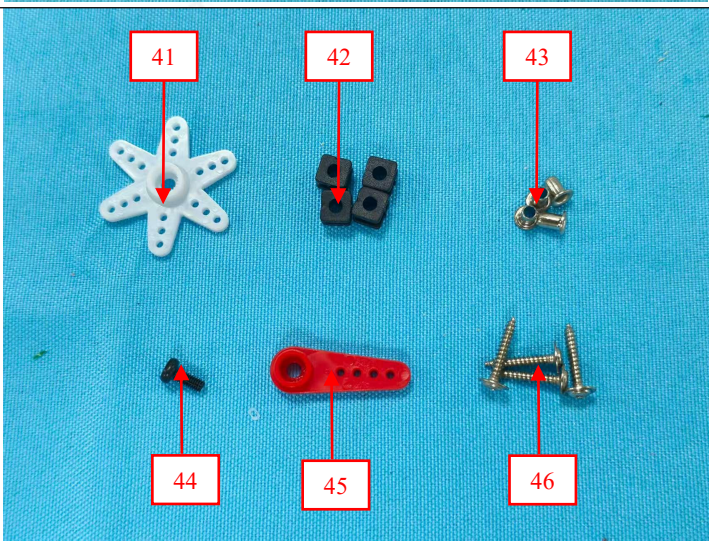


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No.	Tested Part(s)	The photo of the sample
31	Black plastic	
32	Silvery metal	
33	Black plastic	
34	Red wire jacket	
35	Red wire jacket	
36	Yellow wire jacket	
37	Brown wire jacket	
38	Silvery metal core	
39	Black plastic	
40	Golden metal	
41	White plastic	
42	Black soft plastic	
43	Silvery metal	
44	Black metal screw	
45	Red plastic	
46	Silvery metal screw	



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Results:

RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863

A. XRF screening Result

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	Silvery metal shell	BL	BL	BL	BL	/	/
02	Dark blue metal	BL	BL	BL	BL	/	/
03	Silvery metal	BL	BL	BL	BL	/	/
04	Silvery metal	BL	BL	BL	X	/	/
05	Silvery metal shell	BL	BL	BL	BL	/	/
06	White label with black/red printing	BL	BL	BL	BL	BL	BL
07	White plastic	BL	BL	BL	BL	BL	BL
08	Silvery metal	BL	BL	BL	BL	/	/
09	Silvery metal	BL	BL	BL	X	/	/
10	Silvery metal screw	BL	BL	BL	BL	/	/
11	White glue	BL	BL	BL	BL	BL	BL
12	Black soft plastic	BL	BL	BL	BL	BL	BL
13	Silvery metal	BL	BL	BL	BL	/	/
14	Silvery metal	BL	BL	BL	X	/	/
15	Silvery metal magnet	BL	BL	BL	X	/	/
16	White plastic	BL	BL	BL	BL	BL	BL
17	Light brown plastic	BL	BL	BL	BL	X	X
18	Copper metal	BL	BL	BL	BL	/	/
19	Green PCB	BL	BL	BL	BL	X	X
20	Silvery soldering tin	BL	BL	BL	BL	/	/
21	Silvery metal	BL	BL	BL	X	/	/
22	Copper metal coil	BL	BL	BL	BL	/	/
23	Light brown plastic	BL	BL	BL	BL	BL	BL
24	IC	BL	BL	BL	BL	BL	BL
25	Chip resistor	BL	BL	BL	BL	BL	BL
26	Silvery metal crystal oscillator	BL	BL	BL	BL	/	/



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No.	Tested Part(s)	Results					
		Cd	Pb	Hg	Cr▼	Br▼	
						PBBs	PBDEs
27	Silvery soldering tin	BL	BL	BL	BL	/	/
28	Green PCB	BL	BL	BL	BL	X	X
29	IC	BL	BL	BL	BL	BL	BL
30	Chip capacitor	BL	BL	BL	BL	BL	BL
31	Black plastic	BL	BL	BL	BL	BL	BL
32	Silvery metal	BL	BL	BL	BL	/	/
33	Black plastic	BL	BL	BL	BL	BL	BL
34	Red wire jacket	BL	BL	BL	BL	BL	BL
35	Red wire jacket	BL	BL	BL	BL	BL	BL
36	Yellow wire jacket	BL	BL	BL	BL	BL	BL
37	Brown wire jacket	BL	BL	BL	BL	BL	BL
38	Silvery metal core	BL	BL	BL	BL	/	/
39	Black plastic	BL	BL	BL	BL	BL	BL
40	Golden metal	BL	BL	BL	BL	/	/
41	White plastic	BL	BL	BL	BL	BL	BL
42	Black soft plastic	BL	BL	BL	BL	BL	BL
43	Silvery metal	BL	BL	BL	BL	/	/
44	Black metal screw	BL	BL	BL	BL	/	/
45	Red plastic	BL	BL	BL	BL	BL	BL
46	Silvery metal screw	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) (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. Result of Wet Chemical Testing

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 Hexavalent Chromium (Cr (VI))(metal)

Test Item	Unit	MDL	Results				Limit
			04	09	14	15	
Hexavalent Chromium (Cr(VI))▼	µg/cm ²	0.10	Negative	Negative	Negative	Negative	--

Test Item	Unit	MDL	Results	Limit
			21	
Hexavalent Chromium (Cr(VI))▼	µg/cm ²	0.10	Negative	--

Note:

- MDL = Method Detection Limit
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 µg/cm²
- mg/kg = milligram per kilogram = ppm
- N.D.=Not Detected (<MDL or LOQ)
- ▼ = a. The sample is positive for Cr (VI) if the Cr (VI) concentration is greater than 0.13µg/cm². The sample coating is considered to contain Cr (VI).
b. The sample is negative for Cr (VI) if Cr (VI) is N.D. (concentration less than 0.10µg/cm²). The sample coating is considered a non- Cr (VI) based coating.
c. The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive, unavoidable coating variations may influence the determination.
- Positive = result be regarded as not comply with RoHS requirement
- Negative = result be regarded as comply with RoHS requirement



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2) The test results of DBP, BBP, DEHP & DIBP

Test Items	CAS No.	Unit	MDL	Results		Limit
				07+16+17	12+42	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	50	N.D.	199	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
				23+31+33	34	
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
Diisopbutyl Phthalate (DIBP)	84-69-5	mg/kg	50	N.D.	N.D.	1000

Test Items	CAS No.	Unit	MDL	Results		Limit
				35+36+37	39+41+45	
Dibutyl Phthalate (DBP)	84-74-2	mg/kg	50	221	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
Diisopbutyl Phthalate (DIBP)	84-69-5	mg/kg	50	N.D.	N.D.	1000



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3) The test results of PBBs & PBDEs

Test Items	Unit	MDL	Results			Limit
			17	19	28	
Polybrominated Biphenyls (PBBs)						
Monobromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Dibromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Tribromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Tetrabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Pentabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Hexabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Heptabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Octabromobiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Nonabromodiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Decabromodiphenyl	mg/kg	50	N.D.	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	N.D.	1000
Polybrominated Diphenyl ethers (PBDEs)						
Monobromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Dibromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Tribromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Tetrabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Pentabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Hexabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Heptabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Octabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Nonabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Decabromodiphenyl ether	mg/kg	50	N.D.	N.D.	N.D.	/
Total content	mg/kg	/	N.D.	N.D.	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

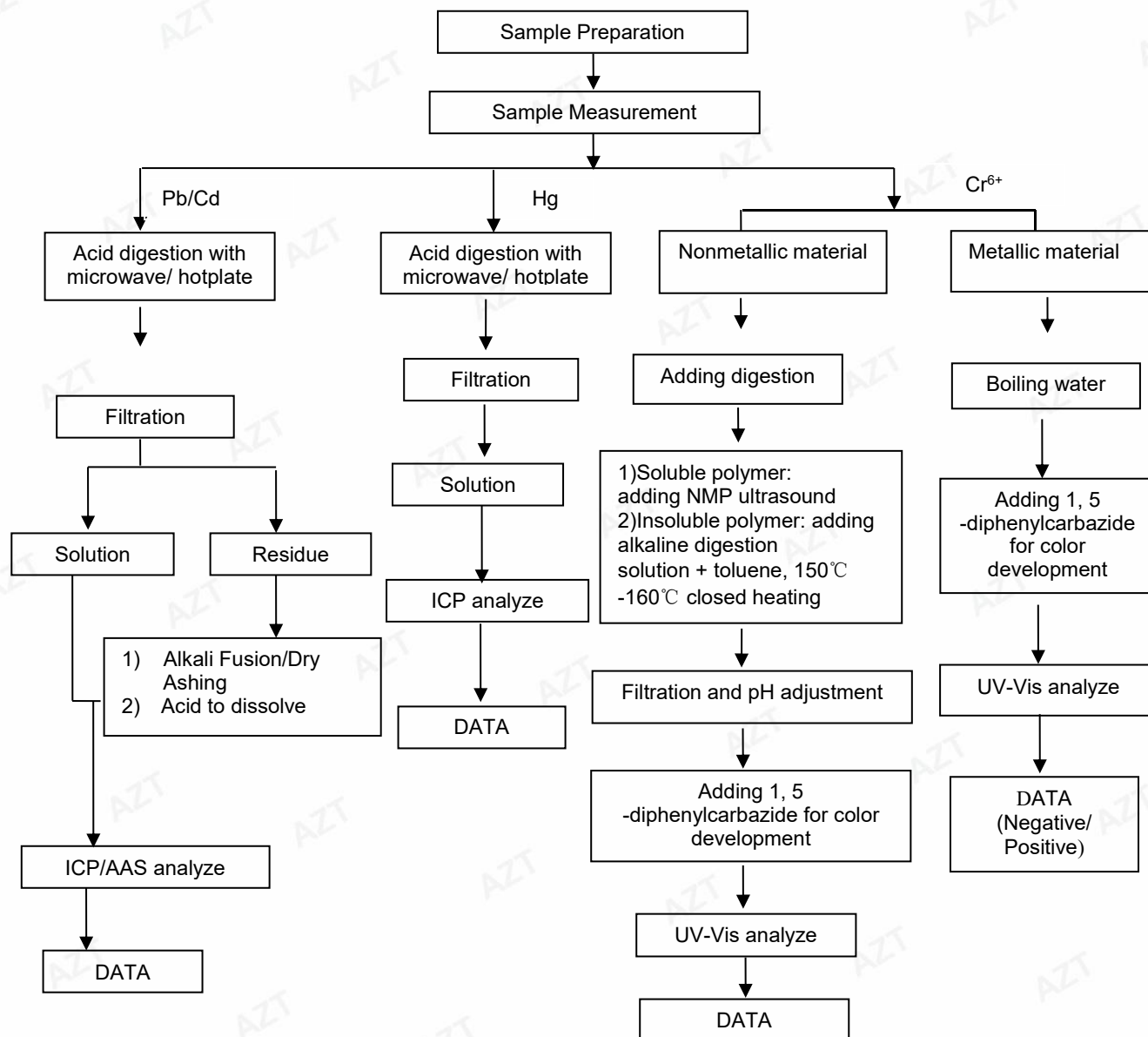


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No.502, Building 1, Yibaolai Industrial City, Qiaotou Community, Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
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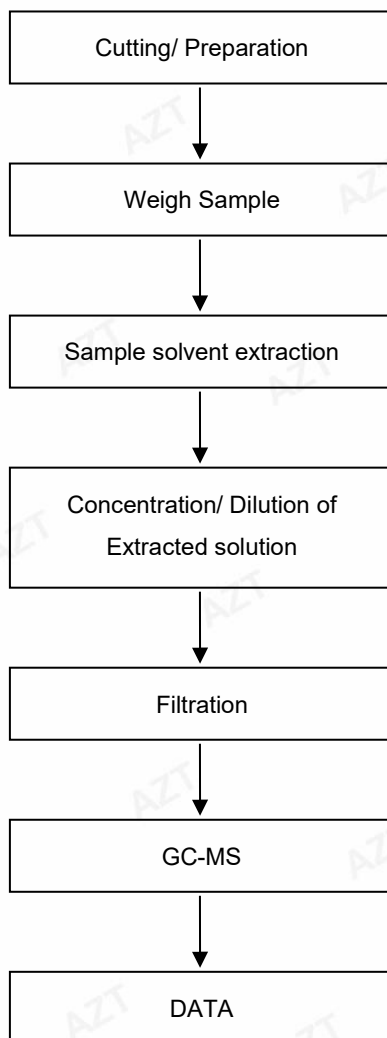
Appendix

Pb/Cd/Hg/Cr⁶⁺ Testing Flow Chart



TEST REPORT

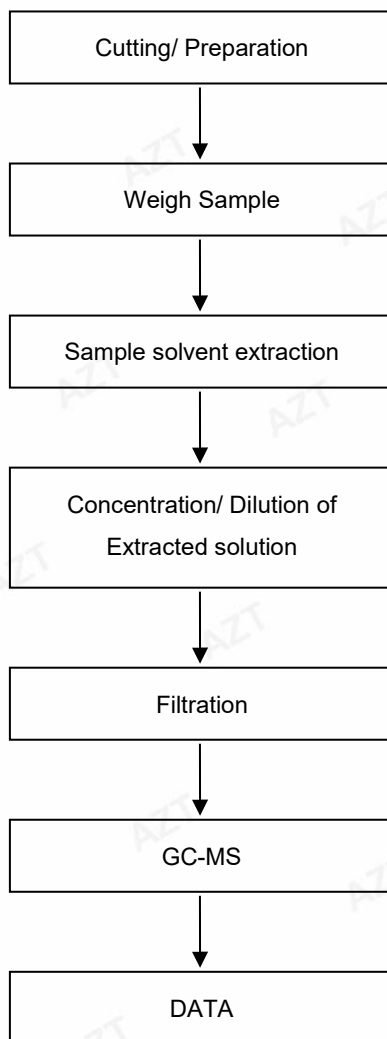
PBBs/PBDEs Testing Flow Chart



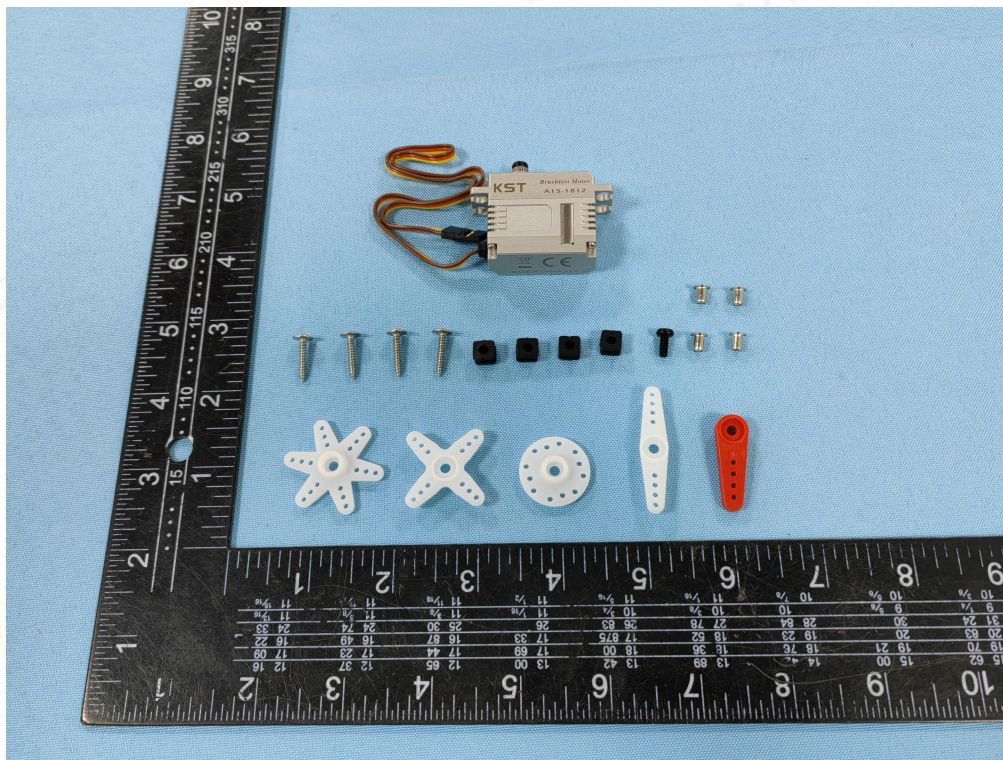


TEST REPORT

Phthalates Testing Flow Chart



The photo of the sample



AZT authenticate the photo on original report only

Statement:

1. This test report is invalid without the signature of the approver and the special seal of the company's report.
2. The copy of the test report is invalid if the "Special Seal for Inspection and Testing" or "Special Seal for testing" or the official seal of the testing unit is not re-stamped.
3. After the test report is altered, the test report is invalid.
4. If there is any objection to the test report, please submit written comments to the laboratory within 15 days from the date of receipt of the report.
5. This test is only responsible for samples provided by customers.
6. This report shall not be reproduced in whole or in part without the written authorization of the Company.
7. The laboratory is not responsible for sampling, all samples are provided by customers.
8. The test results in this test report are only related to the samples provided by the customer.
9. If the report is not stamped with the qualification mark, it is only used for scientific research, teaching, internal quality control and other activities, and does not have a proof role for the society.

*** End of Report ***

