



Test Report

Report No.: COBO24010081

Date: Jan.11.2024

Page 1 of 12

Applicant: Hunter Douglas Europe B.V.

Address: Blaak 555,3011 GB Rotterdam, The Netherlands

The following samples were submitted and identified on behalf of the clients as

Sample Name: Remote control

Model: RW5-G2

Manufacturer: Shenzhen BOFU Smart Co., Ltd

Address: 7 floor, No. 92, Tuopu Industrial Zone, Lingxia Road, Bao'an District, Shenzhen

Factory: Shenzhen BOFU Smart Co., Ltd

Address: 7 floor, No. 92, Tuopu Industrial Zone, Lingxia Road, Bao'an District, Shenzhen

Sample quantity: 1 PCS

Sample Received Date: Jan.05.2024

Test Period: Jan.05.2024 to Jan.11.2024

Test Method: Please refer to next page(s).

Test Result: Please refer to next page(s).

Report Issuer:



Anti-counterfeiting code: ttwc

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Issue test report terms and statements at https://www.cobo-test.com/list_41/340.html.

GUANGDONG COBO TESTING INSTITUTE CO., LTD

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Test Report

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Date: Jan.11.2024

Page 2 of 12

1. Test Requested

Based on the performed tests on specified material(s) or submitted sample(s).

RoHS Directive 2011/65/EU appendixII Revised instructions (EU) 2015/863 of the European parliament and of the council on the restriction of the use of certain hazardous substances in electrical and electronic equipment

- Lead (Pb)/ Cadmium(Cd)/ Mercury(Hg)/ Hexavalent Chromium(Cr⁶⁺) content.
- Polybrominated biphenyls (PBBs) & Polybrominated diphenyl ethers (PBDEs) content.
- Dibutyl phthalate (DBP), Benzylbutyl phthalate (BBP), Di-(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate(DIBP) content

2. Test Conclusion

Test items	Conclusion
RoHS Directive 2011/65/EU appendixII Revised instructions (EU) 2015/863 of the European parliament and of the council on the restriction of the use of certain hazardous substances in electrical and electronic equipment	
- Lead (Pb)/ Cadmium(Cd)/ Mercury(Hg)/ Hexavalent Chromium(Cr ⁶⁺) content.	PASS
- Polybrominated biphenyls (PBBs) & Polybrominated diphenyl ethers (PBDEs) content.	PASS
- Dibutyl phthalate (DBP), Benzylbutyl phthalate (BBP), Di-(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate(DIBP) content	PASS

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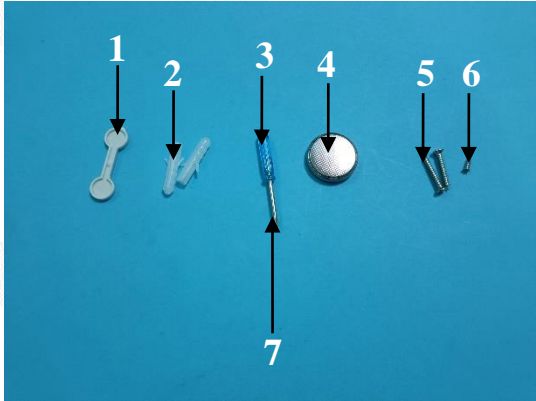
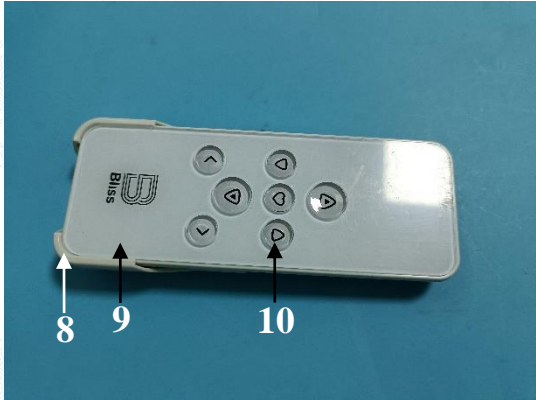
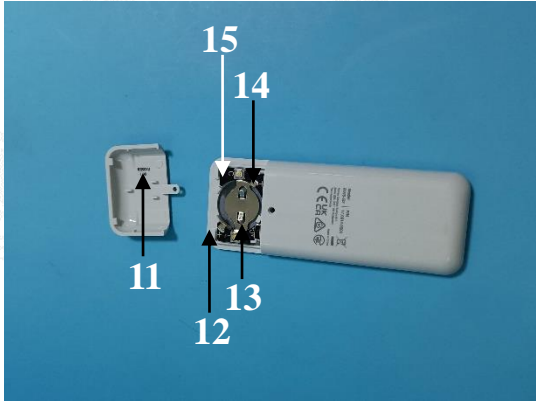
Test Report

Report No.: COBO24010081

Date: Jan.11.2024

Page 3 of 12

3. Sample description and sample photo list:

Sample No.	Description	Sample photo
1	White plastic	
2	White plastic	
3	Blue plastic	
4	Silvery metal	
5	Silvery metal	
6	Silvery metal	
7	Silvery metal	
8	White plastic	
9	Transparent plastic	
10	Transparent plastic with black coating	
11	Transparent plastic with black printing	
12	White plastic	
13	Silvery metal	
14	Silvery metal	
15	PCB	

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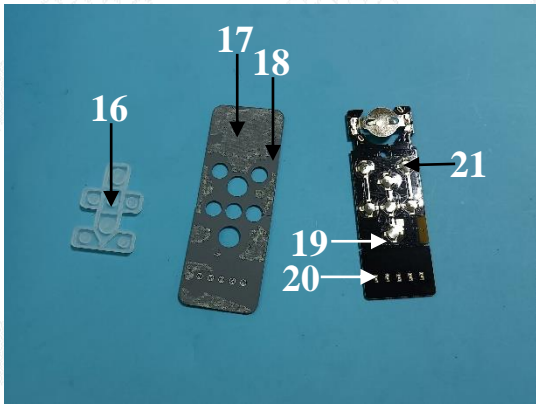
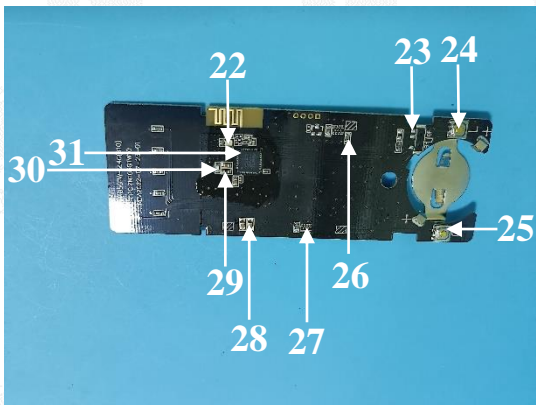
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Test Report

Report No.: COBO24010081

Date: Jan.11.2024

Page 4 of 12

16	White plastic	
17	White plastic	
18	Transparent plastic with gray coating	
19	Transparent plastic	
20	White plastic	
21	Silvery metal	
22	Silvery metal	
23	Silvery metal	
24	Golden metal	
25	Silvery metal	
26	Black resistor	
27	Black resistor	
28	Brown capacitor	
29	Black capacitor	
30	White capacitor	
31	Black crystal	

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Page 5 of 12

4. Test Result(s)

4.1 Screening Test

Test Method: With reference to IEC 62321-3-1:2013, Screening –Total Lead (Pb)/ Total Cadmium(Cd)/ Total Mercury(Hg)/ Total Chromium(Cr)/ Total Bromine by X-ray fluorescence spectrometry.

Test Item	Total Lead (Pb)	Total Cadmium (Cd)	Total Mercury (Hg)	Total Chromium (Cr)	Total Bromine (Br)
Screening Limit	200mg/kg	50mg/kg	200mg/kg	200mg/kg	200mg/kg
Material No.	XRF Result				
1	BL	BL	BL	BL	BL
2	BL	BL	BL	BL	BL
3	BL	BL	BL	BL	BL
4	BL	100 ^a	BL	138601 ^a	NA
5	BL	86 ^a	BL	BL	NA
6	BL	BL	BL	BL	NA
7	279 ^a	BL	BL	496 ^a	NA
8	BL	BL	BL	BL	BL
9	BL	BL	BL	BL	BL
10	BL	BL	BL	BL	BL
11	BL	BL	BL	BL	BL
12	BL	BL	BL	BL	BL
13	BL	BL	BL	BL	NA
14	BL	BL	BL	BL	NA
15	BL	BL	BL	BL	340 ^a
16	BL	BL	BL	BL	BL
17	BL	BL	BL	BL	BL
18	BL	BL	BL	BL	BL
19	BL	BL	BL	BL	BL
20	BL	BL	BL	BL	BL
21	BL	69 ^a	BL	137192 ^a	NA
22	BL	234 ^a	BL	BL	NA
23	BL	BL	BL	BL	NA
24	BL	281 ^a	BL	BL	NA
25	BL	BL	BL	123658 ^a	NA

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Page 6 of 12

26	BL	BL	BL	BL	BL
27	BL	BL	BL	BL	BL
28	BL	BL	BL	BL	BL
29	BL	BL	BL	BL	BL
30	BL	BL	BL	BL	BL
31	BL	BL	BL	BL	BL

Note:

1. mg/kg = milligram per kilogram.
2. "BL" = Below Screening Limit
3. "NA" = Not Applicable.
4. "a" denotes further confirmation test was conducted, results are listed in 4.2, 4.3 and 4.4.

4.2 Heavy Metal Content

Lead (Pb)/Cadmium(Cd): IEC 62321-5:2013, analysis was performed by flame atomic absorption spectrometry (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Mercury(Hg): IEC 62321-4:2017 analysis was performed by flame atomic absorption spectrometry (AAS) or Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Hexavalent Chromium(Cr⁶⁺): metal: IEC 62321-7-1:2015, nonmetal: IEC 62321-7-2:2017, analysis was performed by Ultraviolet-visible spectroscopy (UV-Vis).

Test Item	Total Lead (Pb)	Total Cadmium (Cd)	Total Mercury (Hg)	Hexavalent Chromium (Cr ⁶⁺)	Hexavalent Chromium (Cr ⁶⁺)
Limit	1000 mg/kg	100 mg/kg	1000 mg/kg	1000 mg/kg	Negative
Material No.	Result				
4	--	N.D.	--	/	Negative
5	--	N.D.	--	--	--
7	N.D.	--	--	/	Negative
21	--	N.D.	--	/	Negative
22	--	N.D.	--	--	--
24	--	N.D.	--	--	--
25	--	--	--	/	Negative

Note:

1. RL (Report Limit) = Pb, Cd, Hg: 10mg/kg; Cr⁶⁺: nonmetal -10mg/kg, metal- Negative(<0.1µg/cm²).
2. mg/kg = milligram per kilogram, µg/cm²= micrograms per square centimeter.
3. N.D. = Not Detected (< RL).
4. Negative = Surface of metal sample absence of Cr⁶⁺, Positive = Surface of metal sample presence of Cr⁶⁺.
5. "--" denotes tested by XRF, result is listed in 4.1.

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Report No.: COBO24010081

Date: Jan.11.2024

Page 7 of 12

- Remark:**
- (#1)=Exceeded upper screening limit, but if sample is Steel for machining purposes or galvanized steel, Aluminium or Copper alloy, the limit for Lead is 3,500mg/kg,4,000 mg/kg and 4,000 mg/kg respectively and further chemical test was suggested.
 - (#2)=Exceeded upper screening limit, as claimed by the declaration submitted from the applicant/supplier of applicant,/but if Lead comes from the constituent of ceramic of the electronic component(other than dielectric ceramic in capacitors) only .According to EU RoHS Directive(2011/65/EU),Lead in ceramic of this component can be exempted.
 - (#3)=Exceeded upper screening limit, as claimed by the declaration submitted from the applicant/supplier of applicant,/ but if Lead comes from the constituent of glass used in cathode ray tube/ in electrical and electronic component only. According to EU RoHS Directive(2011/65/EU), Lead in glass of this component can be exempted.
 - (#4) = As claimed by the declaration submitted from the applicant / supplier of applicant, the Lead content of the component comes from Copper alloy only. According to EU RoHS Directive (2011/65/EU),Lead in Copper alloy containing up to 4% (40,000 mg/kg) Lead by weight can be exempted.
 - (#5) = As claimed by the declaration submitted from the applicant / supplier of applicant, the Lead content of the component comes from steel for machining purposes / galvanized steel only. According to EU RoHS Directive(2011/65/EU),Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35%(3,500 mg/kg) Lead by weight can be exempted.
 - (#6) = As claimed by the declaration submitted from the applicant / supplier of applicant, the Lead content of the component comes from the constituent of glass used in fluorescent tubes only. According to EU RoHS Directive(2011/65/EU),Lead in glass of fluorescent tubes can not be exceeding 0.2%(2,000 mg/kg) by weight.
 - (#7) = As claimed by the declaration submitted from the applicant / supplier of applicant, the Lead content of the component comes from the constituent of high melting temperature type solders (i.e. Lead-based alloys containing 85% by weight or more Lead) only. According to EU RoHS Directive(2011/65/EU), Lead in high melting temperature type solders of the component can be exempted.

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Test Report

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Page 8 of 12

4.3 Polybrominated biphenyls (PBBs) & Polybrominated diphenyl ethers (PBDEs) Content

Test Method: IEC 62321-6:2015, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item		Limit (mg/kg)	RL (mg/kg)	Result(mg/kg) 15
PBBs	Monobromobiphenyl	--	5	N.D.
	Dibromobiphenyl	--	5	N.D.
	Tribromobiphenyl	--	5	N.D.
	Tetrabromobiphenyl	--	5	N.D.
	Pentabromobiphenyl	--	5	N.D.
	Hexabromobiphenyl	--	5	N.D.
	Heptabromobiphenyl	--	5	N.D.
	Octabromobiphenyl	--	5	N.D.
	Nonabromobiphenyl	--	5	N.D.
	Decabromobiphenyl	--	5	N.D.
	Sum of detected PBBs	1000	--	N.D.
PBDEs	Monobromodiphenylether	--	5	N.D.
	Dibromodiphenylether	--	5	N.D.
	Tribromodiphenylether	--	5	N.D.
	Tetrabromodiphenylether	--	5	N.D.
	Pentabromodiphenylether	--	5	N.D.
	Hexabromodiphenylether	--	5	N.D.
	Heptabromodiphenylether	--	5	N.D.
	Octabromodiphenylether	--	5	N.D.
	Nonabromodiphenylether	--	5	N.D.
	Decabromodiphenylether	--	5	N.D.
	Sum of detected PBDEs	1000	--	N.D.

- Note:
1. mg/kg = milligram per kilogram.
 2. RL = Report Limit
 3. N.D. = Not Detected (< RL).
 4. "--" = Not Applicable.

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Page 9 of 12

4.4 Phthalates Content

Test Method: IEC 62321-8:2017, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item	Limit (mg/kg)	Result(mg/kg)					
		1	2	3	8	9	10
Di-(2-ethylhexyl) phthalate (DEHP)	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl phthalate (DBP)	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Benzylbutyl phthalate (BBP)	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutylphthalate(DIBP)	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Test Item	Limit (mg/kg)	Result(mg/kg)					
		11	12	15	16	17	18
Di-(2-ethylhexyl) phthalate (DEHP)	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Dibutyl phthalate (DBP)	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Benzylbutyl phthalate (BBP)	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.
Diisobutylphthalate(DIBP)	1000	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.

Test Item	Limit (mg/kg)	Result(mg/kg)	
		19	20
Di-(2-ethylhexyl) phthalate (DEHP)	1000	N.D.	N.D.
Dibutyl phthalate (DBP)	1000	N.D.	N.D.
Benzylbutyl phthalate (BBP)	1000	N.D.	N.D.
Diisobutylphthalate(DIBP)	1000	N.D.	N.D.

- Note:
1. mg/kg = milligram per kilogram.
 2. Report Limit = 50mg/kg.
 3. N.D. = Not Detected (< RL).

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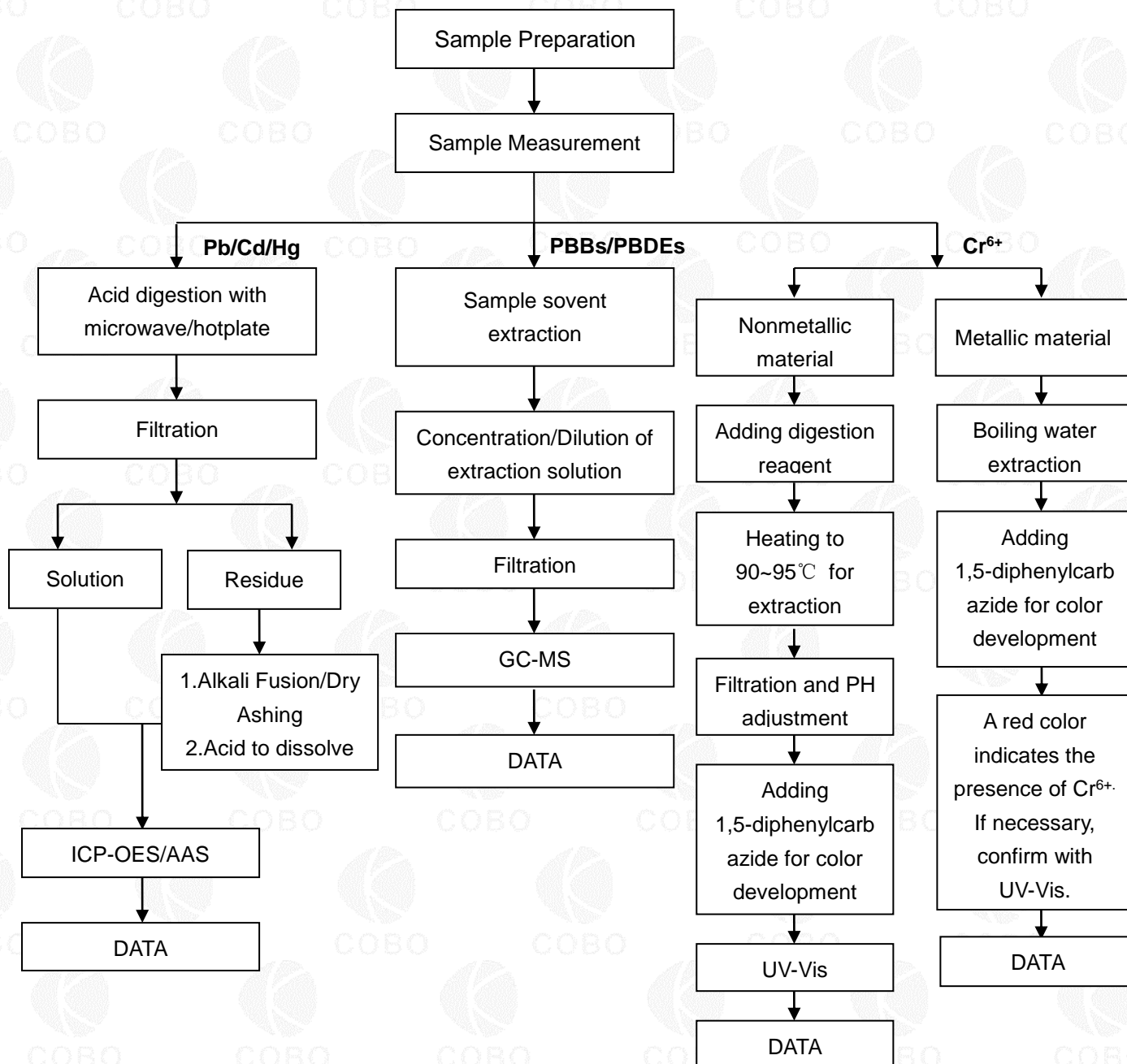
Test Report

Report No.: COBO24010081

Date: Jan.11.2024

Page 10 of 12

RoHS Testing Flow Chart



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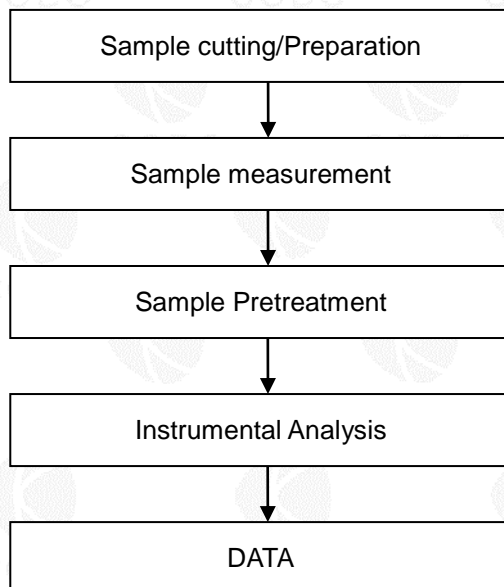
Test Report

Report No.: COBO24010081

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Page 11 of 12

Phthalates Testing Flow Chart



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Page 12 of 12

Photo of Sample



End of Report

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