



Test Report

Report No: BSTDG210821232201CR

Date: Aug. 27, 2021

Page 1 of 9

Applicant : Shenzhen Hooray Technology Co.,Ltd
Address : Floor 8,Nanbiantou Science Park,No.2 Road TianYang, Steert
Songgang,Dist.,Bao'an,Shenzhen.
Manufacturer : Shenzhen Hooray Technology Co.,Ltd
Address : Floor 8,Nanbiantou Science Park,No.2 Road TianYang, Steert
Songgang,Dist.,Bao'an,Shenzhen.

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

Sample Name : DC Radiator fan
Trademark : HR
Main Test Model : HD8025B12H
Additional Model : See Annex
Sample Received Date : Aug. 27, 2021
Testing Period : Aug. 23, 2021 To Aug. 27, 2021
Test Requested : Selected test (s) in the selected parts as requested by client with the RoHS 2 Directive 2011/65/EU Annex II (EU) 2015/863 as last amended by Directive (EU) 2017/2102.
Test Method : Please refer to next page(s).
Test Result : Please refer to next page(s).

Signed for and on behalf of

Tony Qian/ Approved Signatory

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Dongguan BST Testing Co., Ltd.

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Test Report

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Page 2 of 9

Test Content:

Test Item(s)	Test Method	Reference	Unit	Limit	MDL
Cadmium(Cd)	IEC 62321-5:2013	ICP-OES	mg/kg	100	2
Lead(Pb)	IEC 62321-5:2013	ICP-OES	mg/kg	1000	2
Mercury(Hg)	IEC 62321-4:2013+AMD1:2017	ICP-OES	mg/kg	1000	2
Hexavalent Chromium(CrVI) (Metal)	IEC 62321-7-1:2015	UV-Vis	µg/cm ²	0.13	0.1
Hexavalent Chromium(CrVI) (Nonmetal)	IEC 62321-7-2:2017	UV-Vis	mg/kg	1000	8
PBBs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
PBDEs (Next form)	IEC 62321-6:2015	GC-MS	mg/kg	1000	5
Dibutyl Phthalate(DBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Butyl benzyl phthalate (BBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30
Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	GC-MS	mg/kg	1000	30

PBBs		PBDEs	
Monobromobiphenyl	Hexabromobiphenyl	Monobromodiphenyl ether	Hexabromodiphenyl ether
Dibromobiphenyl	Heptabromobiphenyl	Dibromodiphenyl ether	Heptabromodiphenyl ether
Tribromobiphenyl	Octabromobiphenyl	Tribromodiphenyl ether	Octabromodiphenyl ether
Tetrabromobiphenyl	Nonabromobiphenyl	Tetrabromodiphenyl ether	Nonabromodiphenyl ether
Pentabromobiphenyl	Decabromobiphenyl	Pentabromodiphenyl ether	Decabromodiphenyl ether

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Page 3 of 9

Sample Description:

No.	Description	Name
1	Metal	Screw
2	Metal	Metal body shell
3	Metal	Metal wire fence
4	Plastic	PCB
5	Plastic	Terminals
6	Metal	Solder
7	Fuse	Fuse
8	Capacitance	Capacitance
9	Diode	Diode
10	IC	IC
11	Plastic	Transformer skeleton
12	Plastic	Transformer coil
13	Metal	Transformer core
14	Plastic	Transformer tape
15	I-shaped inductance	I-shaped inductance
16	inductance	inductance
17	Y capacitor	Y capacitor
18	Triode	Triode
19	Metal	Heat-dissipating aluminum alloy
20	Plastic	Motor
21	Plastic	Wind leaf
22	Metal	Plug pin
23	Plastic	Plug plastic
24	Plastic	Wire sheath
25	Metal	Wire copper wire

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Page 4 of 9

Test Result:

Test Item(s)	No.1	No.2	No.3	No.4	No.5
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	--	--	N.D.	N.D.
PBDEs	--	--	--	N.D.	N.D.
Dibutyl Phthalate (DBP)	--	--	--	N.D.	N.D.
Butyl benzyl phthalate (BBP)	--	--	--	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	--	--	N.D.	N.D.
Diisobutyl phthalate (DIBP)	--	--	--	N.D.	N.D.
Test Item(s)	No.6	No.7	No.8	No.9	No.10
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	--	N.D.	N.D.	N.D.	N.D.
PBDEs	--	N.D.	N.D.	N.D.	N.D.
Dibutyl Phthalate (DBP)	--	N.D.	N.D.	N.D.	N.D.
Butyl benzyl phthalate (BBP)	--	N.D.	N.D.	N.D.	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	--	N.D.	N.D.	N.D.	N.D.
Diisobutyl phthalate (DIBP)	--	N.D.	N.D.	N.D.	N.D.

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Page 5 of 9

Test Item(s)	No.11	No.12	No.13	No.14	No.15
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	--	N.D.	--
PBDEs	N.D.	N.D.	--	N.D.	--
Dibutyl Phthalate (DBP)	N.D.	N.D.	--	N.D.	--
Butyl benzyl phthalate (BBP)	N.D.	N.D.	--	N.D.	--
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	--	N.D.	--
Diisobutyl phthalate (DIBP)	N.D.	N.D.	--	N.D.	--
Test Item(s)	No.16	No.17	No.18	No.19	No.20
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	N.D.	N.D.	--	N.D.
PBDEs	N.D.	N.D.	N.D.	--	N.D.
Dibutyl Phthalate (DBP)	N.D.	N.D.	N.D.	--	N.D.
Butyl benzyl phthalate (BBP)	N.D.	N.D.	N.D.	--	N.D.
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	N.D.	N.D.	--	N.D.
Diisobutyl phthalate (DIBP)	N.D.	N.D.	N.D.	--	N.D.

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Page 6 of 9

Test Item(s)	No.21	No.22	No.23	No.24	No.25
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.
Hexavalent Chromium (CrVI)	N.D.	N.D.	N.D.	N.D.	N.D.
PBBs	N.D.	--	N.D.	N.D.	--
PBDEs	N.D.	--	N.D.	N.D.	--
Dibutyl Phthalate (DBP)	N.D.	--	N.D.	N.D.	--
Butyl benzyl phthalate (BBP)	N.D.	--	N.D.	N.D.	--
Di-(2-ethylhexyl) Phthalate(DEHP)	N.D.	--	N.D.	N.D.	--
Diisobutyl phthalate (DIBP)	N.D.	--	N.D.	N.D.	--

- Note:**
1. mg/kg= ppm
 2. N.D.= Not Detected(<MDL)
 3. MDL = Method Detection Limit
 4. -- = No Testing
 5. when Cr(VI) in a sample is detected below the 0.10 $\mu\text{g}/\text{cm}^2$ LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) may not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$ has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing may be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above 0.13 $\mu\text{g}/\text{cm}^2$, the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations may influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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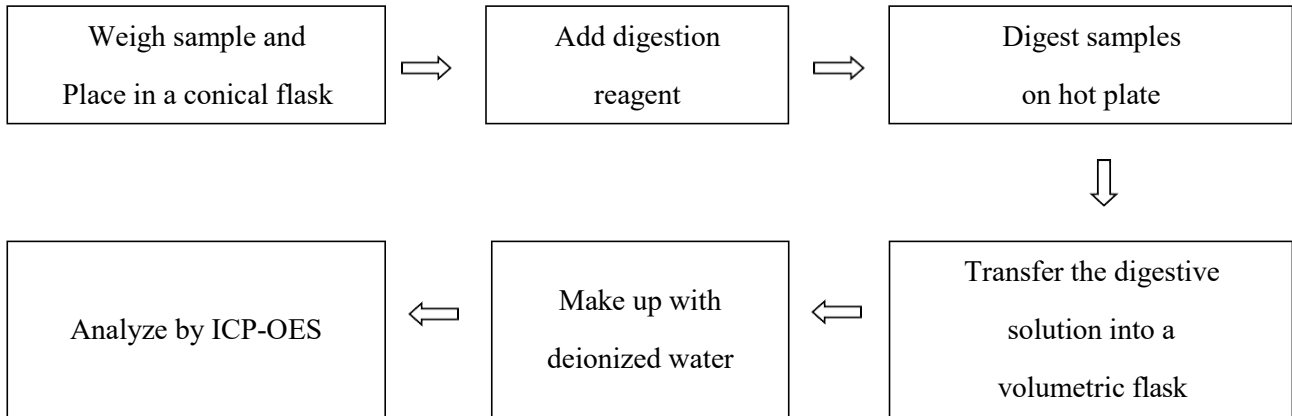
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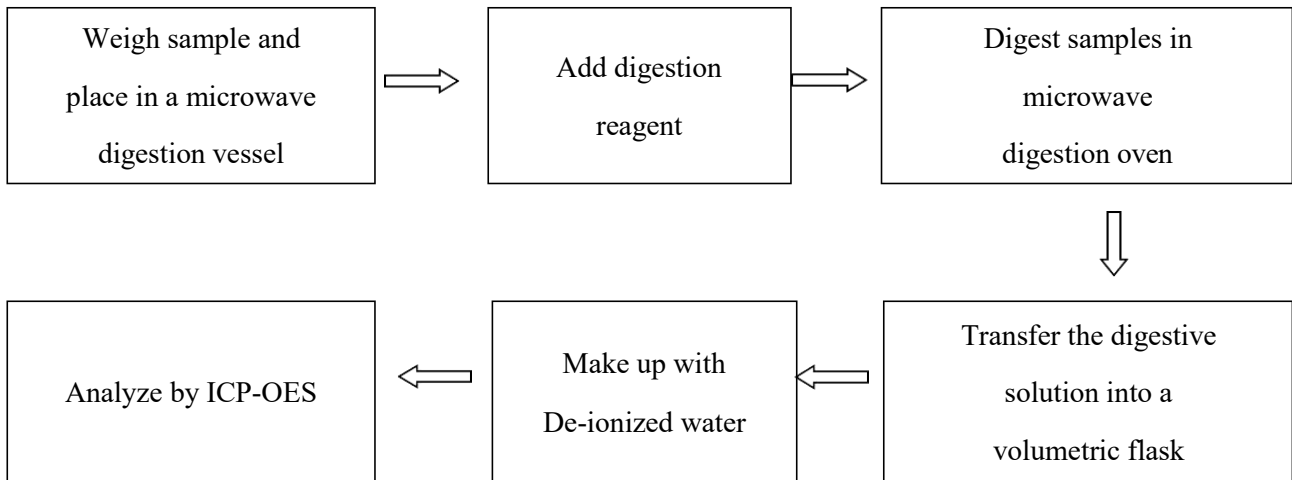
Page 7 of 9

Test Process:

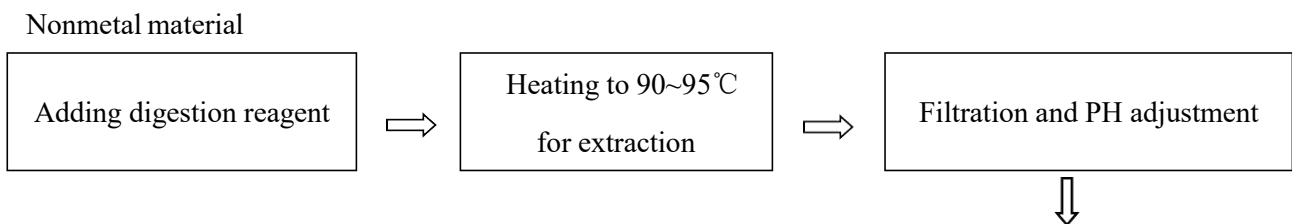
1. Test for Cd/Pb Content



2. Test for Hg Content



3. Test for Chromium (VI) Content



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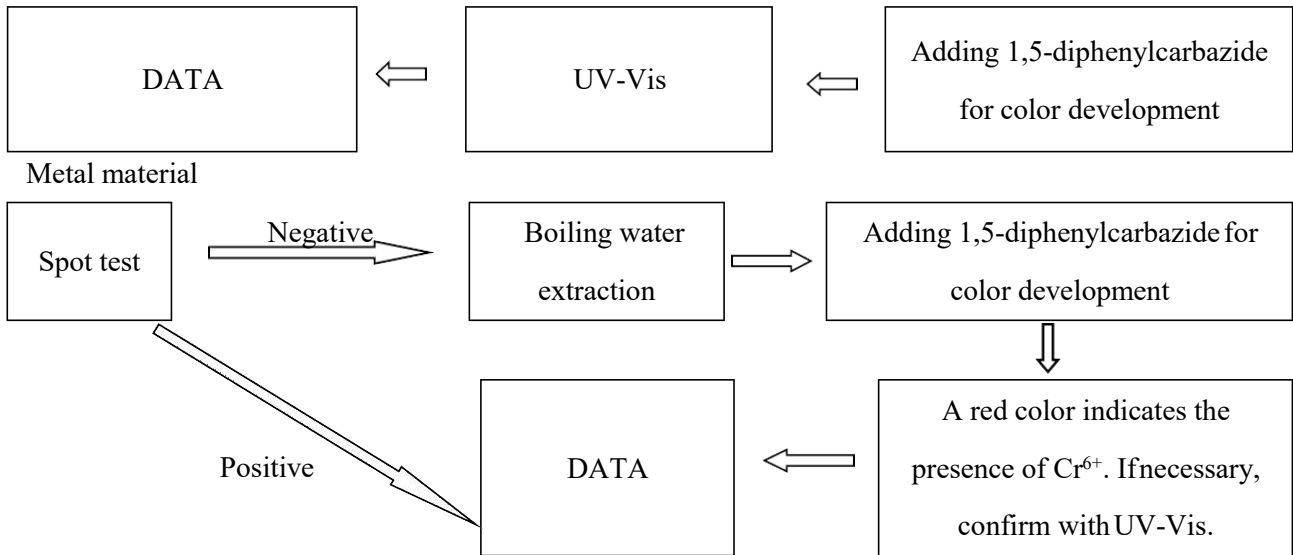


Test Report

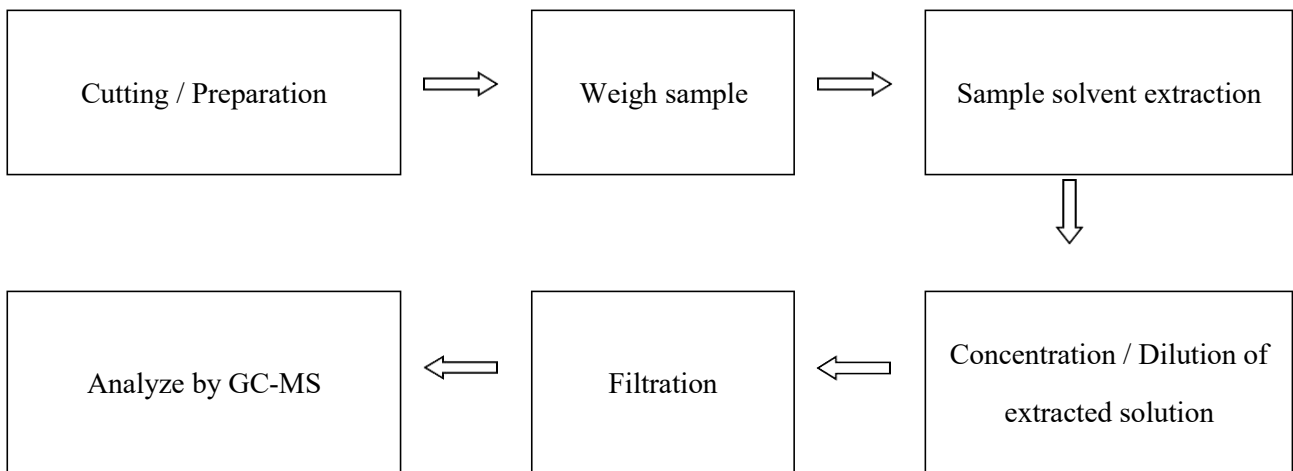
Report No: BSTDG210821232201CR

Date: Aug. 27, 2021

Page 8 of 9



4. Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content



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Page 9 of 9

Sample Photo:

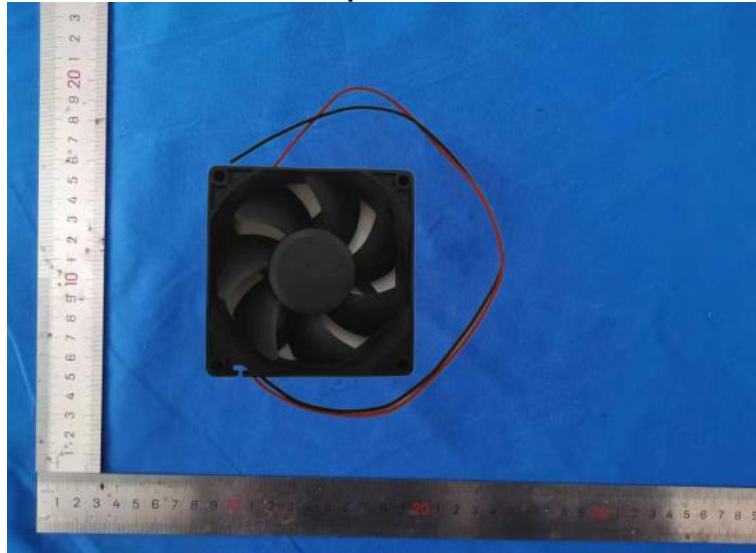


Photo 1

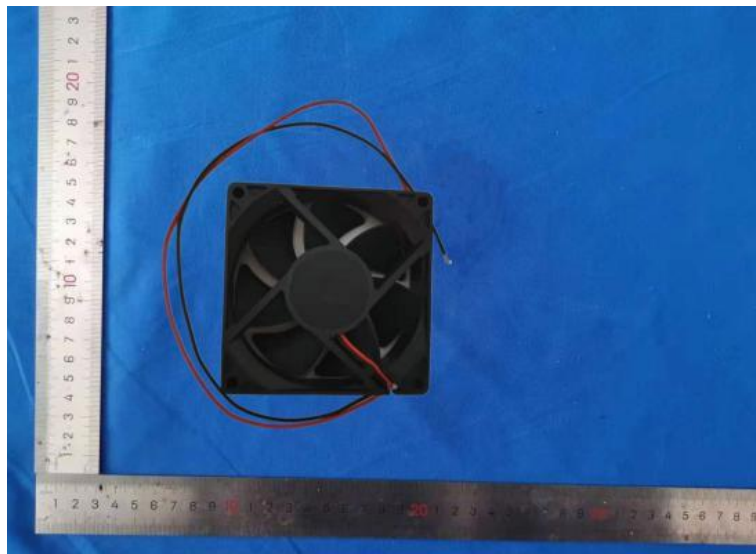


Photo 2

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