

TEST REPORT

REPORT No.: R2BJ180702F0448E

Date: July 19, 2018

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BEIJING EPSOLAR TECHNOLOGY CO., LTD
NO.228, BLOCK A, 2ND FLOOR, BLDG 1, NO.3 STREET, SHANGDI XINXI CHANYE JIDI, HAIDIAN DISTRICT,
BEIJING, CHINA

Report on the submitted samples said to be:

Sample Name : MPPT Solar Charge Controller
Tested Style/ Items No.^① : XTRA4415N-XDS1
XTRA4415N-XDB1/XTRA4415N-XDS2/XTRA1206N-XDB1/XTRA1206N-XDS1/
XTRA1206N-XDS2/XTRA2206N-XDB1/ XTRA2206N-XDS1/
XTRA2206N-XDS2/XTRA1210N-XDB1 /XTRA1210N-XDS1/
XTRA1210N-XDS2/XTRA2210N-XDB1 /XTRA2210N-XDS1/
Additional Styles/ Items No.^② : XTRA2210N-XDS2/XTRA3210N-XDB1 /XTRA3210N-XDS1/
XTRA3210N-XDS2/XTRA4210N-XDB1 /XTRA4210N-XDS1/
XTRA4210N-XDS2/XTRA3215N-XDB1 /XTRA3215N-XDS1/
XTRA3215N-XDS2/XTRA4215N-XDB1 /XTRA4215N-XDS1/
XTRA4215N-XDS2/XTRA3415N-XDB1 /XTRA3415N-XDS1/
XTRA3415N-XDS2
Sample Receiving Date : July 2, 2018
Testing Period : From July 2, 2018 to July 19, 2018
Results : Please refer to next page(s).
Remark : ①The tested Style/ Item No. is tested by the lab. ②The Additional Styles/ Items
No. declared in the applicant's declaration are not tested, their materials are the
same as the tested parts and the result of the test report is only responsible for
the test sample.

Signed for and on behalf of
BACL



Checked by: _____
Jane Xu
Technical Supervisor



Approved by: _____
William Wei
Laboratory Manager

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Bay Area Compliance Laboratories Corp. (Dongguan)

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Summary of Test Results:

TEST REQUEST

CONCLUSION

A	RoHS Directive 2011/65/EU and its amendment directives –XRF screening test and Wet Chemical Testing (Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs content)	Pass
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Results:

A. RoHS Directive 2011/65/EU and its amendment directives

XRF screening test

Test method: With reference to IEC62321-3-1:2013 screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1*	Silvery metal with black coating(screw, base, Solar Charge Controller)	BL	BL	BL	IN	---
2	Silvery metal with black coating(gasket, screw, base, Solar Charge Controller)	BL	BL	BL	BL	---
3*	Silvery metal with black coating(ring, screw, base, Solar Charge Controller)	BL	BL	BL	IN	---
4	Transparent plastic(gasket, screw, base, Solar Charge Controller)	BL	BL	BL	BL	BL
5	Transparent plastic with blue coating(sticker, cap, Solar Charge Controller)	BL	BL	BL	BL	BL
6	Silvery metal(screw, cap, Solar Charge Controller)	BL	BL	BL	BL	---
7	Transparent soft plastic(film, cap, Solar Charge Controller)	BL	BL	BL	BL	BL
8	White plastic with black printing(sticker, cap, Solar Charge Controller)	BL	BL	BL	BL	BL
9	White paper with blue printing(sticker, cap, Solar Charge Controller)	BL	BL	BL	BL	BL
10	Black soft plastic(cushion, cap, Solar Charge Controller)	BL	BL	BL	BL	BL
11	Golden metal(nut, cap, Solar Charge Controller)	BL	BL	BL	BL	---
12	Grey plastic with blue coating(cap, Solar Charge Controller)	BL	BL	BL	BL	BL
13	Brown glue(sealing,PCB"XDS1-VER2-2-2", cap)	BL	BL	BL	BL	BL
14	White paper with black printing(sticker,PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
15	Black soft plastic(sticker, FPC"AWM",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
16	Silvery metal(foil, FPC"AWM",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	---
17*	White FPC(FPC"AWM",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	IN
18	Black adhesive plastic(sticker, screen,PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
19	White plastic(film, screen,PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
20	Translucent plastic(film, screen,PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
21*	Silvery metal(foil, screen,PCB"XDS1-VER2-2-2")	BL	BL	BL	IN	---
22	Transparent plastic(sheet, screen,PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
23*	Yellow body(LED, PCB"0.7.BG1502-00-A0", sheet, screen)	BL	BL	BL	BL	IN
24*	White PCB(PCB"0.7.BG1502-00-A0", sheet, screen)	BL	BL	BL	BL	IN
25	Silvery solder(PCB"0.7.BG1502-00-A0", sheet, screen)	BL	BL	BL	BL	---
26	Transparent glass with grey coating(lens, screen,PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
27	Silvery metal(pin, screen,PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	---
28	Black plastic(fixer, socket"P5",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
29	Beige plastic(pin holder, socket"P5",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
30	Silvery metal(pin, socket"P5",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	---
31	Black plastic(button, switch"J1",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
32	Black plastic(shell, switch"J1",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
33*	Silvery metal(contactor, switch"J1",PCB"XDS1-VER2-2-2")	BL	BL	BL	IN	---
34	Black soft plastic(cushion, switch"J1",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
35	Black plastic(pin holder, switch"J1",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
36	Silvery metal(pin, switch"J1",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	---
37	Transparent body(LED"D1",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
38	Black body with white printing(resistor"R1",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
39	Black body(IC"U8",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
40	Brown body(capacitor"C23",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
41	Black body(triode"Q4",PCB"XDS1-VER2-2-2")	BL	BL	BL	BL	BL
42*	Green PCB(PCB"XDS1-VER2-2-2", cap, Solar Charge Controller)	BL	BL	BL	BL	IN
43	Silvery solder(PCB"XDS1-VER2-2-2", cap, Solar Charge Controller)	BL	BL	BL	BL	---

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
44*	Red glue(sealing, screw, base, Solar Charge Controller)	BL	BL	BL	BL	IN
45*	Black plastic(fixer, screw, base, Solar Charge Controller)	BL	BL	BL	BL	IN
46	Black plastic(cushion, screw, PCB"XTRA4415N-V4-1-1", base)	BL	BL	BL	BL	BL
47	Grey silicone(cushion, PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
48	Green silicone(cushion, PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
49	Light pink silicone(cushion, PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
50	White plastic(support, PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
51	Red plastic(sleeve, Fuse"F2", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
52	Silvery metal with white coating(Fuse"F2", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
53	Brown soft plastic with white printing(sleeve, capacitor"E1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
54	Silvery metal(shell, capacitor"E1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
55	Black rubber(base, capacitor"E1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
56	Transparent soft plastic(film, capacitor"E1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
57	Brown paper with liquid(film, capacitor"E1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
58	Silvery metal(foil, capacitor"E1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
59	Dull silvery metal(foil, capacitor"E1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
60	Silvery metal(connector, capacitor"E1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
61	Silvery metal(pin, capacitor"E1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
62	Blue plastic with white printing(sleeve, capacitor"E3", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
63	Black plastic(fixer, socket"P8", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
64	Beige plastic(pin holder, socket"P8", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
65	Silvery metal(pin, socket"P8", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
66* ¹	Red body(diode"D35", PCB"XTRA4415N-V4-1-1")	OL	BL	BL	BL	BL
67	Green plastic(shell, socket"P3", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
68	Silvery metal(screw, socket"P3", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
69* ²	Coppery metal with silvery plating(pin holder, socket"P3", PCB"XTRA4415N-V4-1-1")	OL	BL	BL	BL	---
70	Silvery metal(pin, socket"P3", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
71	Green plastic(pin holder, socket"P1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
72	Silvery metal(pin, socket"P1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
73*	Black plastic(pin holder, socket"P10", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	IN
74	Silvery metal(pin, socket"P10", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
75*	Black body(triode"Q2", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	IN
76	Silvery metal(pin, triode"Q2", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
77*	Black body with white printing(diode"D21", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	IN
78	Silvery metal(pin, diode"D21", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
79*	Grey body with white printing(capacitor"C72", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	IN
80	Silvery metal(connector"P9", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
81*	Black plastic(pin holder,socket"P13", PCB"ISO485P51SW-V4-1-1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	IN
82	Silvery metal(pin,socket"P13", PCB"ISO485P51SW-V4-1-1")	BL	BL	BL	BL	---
83*	Black body(transformer"T1", PCB"ISO485P51SW-V4-1-1")	BL	BL	BL	BL	IN
84*	Brown body(capacitor"C81", PCB"ISO485P51SW-V4-1-1")	BL	BL	BL	BL	IN
85	Black body(IC"U16", PCB"ISO485P51SW-V4-1-1")	BL	BL	BL	BL	BL
86	Black body with white printing(resistor"R94", PCB"ISO485P51SW-V4-1-1")	BL	BL	BL	BL	BL
87*	Green PCB(PCB"ISO485P51SW-V4-1-1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	IN
88	Silvery solder(PCB"ISO485P51SW-V4-1-1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
89	Black body with white printing(resistor"R62", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
90	Brown body(capacitor"C25", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL

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Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
91	Black body(diode"D4", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
92	Black body(triode"Q1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
93	Black body(IC"U12", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
94	Black body(resistor"Rt1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
95	Black body(inductor"L4", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
96	Black magnet(core, inductor"L1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
97	Coppery metal(coil, inductor"L1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
98	Silvery metal(crystal"Y1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	---
99	White body(capacitor"C54", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
100	Grey body(capacitor"C41", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
101*	Green PCB(PCB"XTRA4415N-V4-1-1", base)	BL	BL	BL	BL	IN
102	Silvery solder(PCB"XTRA4415N-V4-1-1", base)	BL	BL	BL	BL	---
103*	Silvery metal(rivet, base, Solar Charge Controller)	BL	BL	BL	IN	---
104	Silvery metal(nut, rivet, base, Solar Charge Controller)	BL	BL	BL	BL	---
105	Silvery metal(ring, base, Solar Charge Controller)	BL	BL	BL	BL	---
106*	Black glue(sealing, inductor, base, Solar Charge Controller)	BL	BL	BL	BL	IN
107	Yellow soft plastic(tape, inductor, base)	BL	BL	BL	BL	BL
108	Black soft plastic(wire jacket, inductor, base)	BL	BL	BL	BL	BL
109	Silvery metal(wire, inductor, base)	BL	BL	BL	BL	---
110	Red soft plastic(sleeve, coil, inductor, base)	BL	BL	BL	BL	BL
111*	Black plastic(fixer, inductor, base)	BL	BL	BL	BL	IN
112	Silvery metal(shell, inductor, base)	BL	BL	BL	BL	---
113	Coppery metal(coil, inductor, base)	BL	BL	BL	BL	---
114	Silvery solder(coil, inductor, base)	BL	BL	BL	BL	---

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		Pb	Cd	Hg	Cr	Br
115	Black magnet(core, inductor, base)	BL	BL	BL	BL	BL
116	Silvery metal with black coating(base, Solar Charge Controller)	BL	BL	BL	BL	---
117	Green plastic(shell, Temp Sensor, accessories)	BL	BL	BL	BL	BL
118* ¹	Orange body(diode, Temp Sensor, accessories)	OL	BL	BL	BL	BL
119	Silvery metal(pin, diode, Temp Sensor, accessories)	BL	BL	BL	BL	---
120	Silvery metal(screw, Temp Sensor, accessories)	BL	BL	BL	BL	---
121* ²	Golden metal with silvery plating(holder, Temp Sensor, accessories)	OL	BL	BL	BL	---
122	Silvery metal(connector, Temp Sensor, accessories)	BL	BL	BL	BL	---
123	Black body with orange printing(resistor"RS2", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL
124	Black plastic(cushion, crystal"Y1", PCB"XTRA4415N-V4-1-1")	BL	BL	BL	BL	BL

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Remark:

(1)

--- = Not Conducted

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 IEC62321-3-1:2013.

Element	Unit	Polymers	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ< X <130+3σ≤OL	BL≤70-3σ< X <130+3σ≤OL	LOD < X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤OL	BL≤500-3σ< X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤OL	BL≤500-3σ< X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ< X	BL≤700-3σ< X	BL≤500-3σ< X
Br	mg/kg	BL≤300-3σ< X	---	BL≤250-3σ< X

BL = Below Limit

OL = Over Limit

IN = Inconclusive

LOD = Limit of Detection

*¹ = As claimed by the material declaration submitted by the client, the materials of the samples No.66、118 are ceramic. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted in electronic ceramic parts (e.g. piezoelectronic devices).

*² = As claimed by the material declaration submitted by the client, the materials of the sample No. 69、121 are copper alloy. And according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.

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- (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 RoHS directive 2011/65/EU:

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
Polybrominate ddiphenylethers (PBDEs)	1000

- (4) As requested by applicant, only components shown in this report were screened by XRF spectroscopy for 2011/65/EU and its amendment directives, other components were not screened included in this report.
- (5) Photo appendix is included.

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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Wet Chemical Testing:

Test method:

Lead Content:

With reference to IEC62321-5:2013, by acid digestion and analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES) or Atomic Absorption Spectrometry (AAS).

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

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

PRELIMINARY

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1) The test results of Pb

Item	Unit	MDL	Results	
			69	121
Lead (Pb) Content	mg/kg	10	18320	19612

2) The test results of Cr (VI)

Item	Unit	MDL	Results					Limit
			1	3	21	33	103	
Hexavalent Chromium (Cr(VI))	µg/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	N.D.	**
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- ** =
 - a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13µg/cm². The sample coating is considered to contain CrVI
 - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10µg/cm²). The coating is considered a non-CrVI 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

For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

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3) The test results of PBBs & PBDEs

Item	Unit	MDL	Results					Limit
			17	23	24	42	44	
Polybrominated Biphenyls								
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers								
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results				Limit
			45	73	75	77	
Polybrominated Biphenyls							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results				Limit
			79	81	83	84	
Polybrominated Biphenyls							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Results				Limit
			87	101	106	111	
Polybrominated Biphenyls							
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers							
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

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Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- The results less than MDL are not taken into account while calculating the sum contents.
- mg/kg = ppm
- Photo is included.

FINAL

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Photograph of Sample



BACL authenticate the photo on original report only

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