



TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 1 of 34

Applicant Company Name: **Nebra Ltd**

Applicant Company Address: **Unit 4 Bells Yew Green Business Court, Bells Yew Green, Tunbridge Wells, East Sussex, TN3 9BJ**

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

Sample Name : Nebra Indoor LoRa Gateway ROCK Pi 4 Version / Nebra Indoor Helium Hotspot
ROCK Pi 4 Version
NEBHNT-HHRK4-433, NEBHNT-HHRK4-470, NEBHNT-HHRK4-868,
NEBHNT-HHRK4-915, NEBHNT-HHRK4-433-2, NEBHNT-HHRK4-470-2,
Model No. : NEBHNT-HHRK4-868-2, NEBHNT-HHRK4-915-2, NEBHNT-HHRK4-433-3,
NEBHNT-HHRK4-470-3, NEBHNT-HHRK4-868-3, NEBHNT-HHRK4-915-3,
NEBHNT-HHRK4-433-3, NEBHNT-HHRK4-470-3, NEBHNT-HHRK4-868-3,
NEBHNT-HHRK4-915-3
Sample Receiving Date : February 25, 2022
Testing Period : From February 25, 2022 to March 03, 2022
Results : Please refer to next page(s).

Summary of Test Results:

TEST REQUEST

A EU RoHS Directive 2011/65/EU and its amendment directives 2015/863/EU ([RoHS 2.0](#))

Pass

Shenzhen Deesev Testing International Corp

Approved by:

Tommy Jiang
lab manager

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 2 of 34

Results:

1、EU RoHS Directive 2011/65/EU and its amendment directives on XRF

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

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
1	Black Plastic Sheet	BL	BL	BL	BL	BL
2	Double Faced Adhesive Tape	BL	BL	BL	BL	BL
3	Black Coating	BL	BL	BL	BL	BL
4	Metal Case Substrate	BL	BL	BL	BL	N/A
5	Gold Metal Nut	X	BL	BL	BL	N/A
6	Grey Silica Gel	BL	BL	BL	BL	BL
7	White Coating	BL	BL	BL	BL	BL
8	Metal Case Substrate	BL	BL	BL	BL	N/A
9	Transparent Plastic Light Guide	BL	BL	BL	BL	BL
10	Metal Case Substrate	BL	BL	BL	BL	N/A
11	Silver Metal Case	BL	BL	BL	BL	N/A
12	Grey Silica Gel	BL	BL	BL	BL	BL
13	Brown Silica Gel	BL	BL	BL	BL	BL
14	Gold Metal Screw	X	BL	BL	BL	N/A
15	Gold Metal Needle	X	BL	BL	BL	N/A
16	Internal White Plastic	BL	BL	BL	BL	BL
17	Solder Point	BL	BL	BL	BL	N/A
18	Black Heat Shrink Tube Sleeve	BL	BL	BL	BL	BL
19	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
20	Wire Internal Metal Wire	BL	BL	BL	BL	N/A

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 3 of 34

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
21	Gold Metal Terminal	BL	BL	BL	BL	N/A
22	Gold Metal Gasket	BL	BL	BL	BL	N/A
23	Gold Metal Nut	X	BL	BL	BL	N/A
24	Gold Metal Circlip	BL	BL	BL	BL	N/A
25	Gold Metal Screw	X	BL	BL	BL	N/A
26	Silver Metal Screw	BL	BL	BL	BL	N/A
27	Black Metal Screw	BL	BL	BL	BL	N/A
28	Black Plastic Cover	BL	BL	BL	BL	BL
29	White Plastic Ring	BL	BL	BL	BL	BL
30	PCB	BL	BL	BL	BL	X
31	Solder Point	BL	BL	BL	BL	N/A
32	Silver Metal Sheet	BL	BL	BL	BL	N/A
33	Black Plastic Case	BL	BL	BL	BL	BL
34	Beige Plastic Button	BL	BL	BL	BL	BL
35	Black Ceramic Body Chip	BL	BL	BL	BL	BL
36	Patch Resistor	BL	BL	BL	BL	BL
37	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
38	Patch Diode	BL	BL	BL	BL	BL
39	Triode	BL	BL	BL	BL	BL
40	Crystal Oscillator	BL	BL	BL	BL	N/A

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REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 4 of 34

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
41	Silver Metal Case	BL	BL	BL	BL	N/A
42	Fiberboard	BL	BL	BL	BL	BL
43	Black Plastic Shell	BL	BL	BL	BL	BL
44	Gold Metal Needle	BL	BL	BL	BL	N/A
45	Silver Metal Case	BL	BL	BL	X	N/A
46	Black Plastic Case	BL	BL	BL	BL	BL
47	Gold Metal Needle	BL	BL	BL	BL	N/A
48	Patch Coil Inductor	BL	BL	BL	BL	BL
49	Copper Winding	BL	BL	BL	BL	N/A
50	Silver Metal Sheet	BL	BL	BL	X	N/A
51	Black Plastic Shell	BL	BL	BL	BL	BL
52	Black Plastic Button	BL	BL	BL	BL	BL
53	Silver Metal Sheet	BL	BL	BL	X	N/A
54	Yellow Plastic Sticker	BL	BL	BL	BL	BL
55	Beige Plastic Case	BL	BL	BL	BL	X
56	Silver Metal Needle	BL	BL	BL	BL	N/A
57	Beige Plastic Case	BL	BL	BL	BL	BL
58	Black Plastic Cover	BL	BL	BL	BL	X
59	Silver Metal Needle	BL	BL	BL	BL	N/A
60	PCB (Micro)	BL	BL	BL	BL	BL

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REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 5 of 34

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
61	Solder Point	BL	BL	BL	BL	N/A
62	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
63	Patch Resistor	BL	BL	BL	BL	BL
64	Red Coating	BL	BL	BL	BL	BL
65	Yellow Coating	BL	BL	BL	BL	BL
66	Green Coating	BL	BL	BL	BL	BL
67	Blue Coating	BL	BL	BL	BL	BL
68	Plastic Case Substrate	BL	BL	BL	BL	X
69	Gold Metal Needle	BL	BL	BL	BL	N/A
70	Silver Metal Case	BL	BL	BL	BL	N/A
71	Internal Black Plastic	BL	BL	BL	BL	BL
72	Silver Metal Needle	BL	BL	BL	BL	N/A
73	Silver Metal Case	BL	BL	BL	X	N/A
74	Internal Blue Plastic	BL	BL	BL	BL	X
75	Silver Metal Needle	BL	BL	BL	BL	N/A
76	Silver Metal Case	BL	BL	BL	BL	N/A
77	Internal Black Plastic	BL	BL	BL	BL	X
78	Gold Metal Needle	BL	BL	BL	BL	N/A
79	Toroid Inducto	BL	BL	BL	BL	BL
80	Copper Winding	BL	BL	BL	BL	N/A

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 6 of 34

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
81	PCB	BL	BL	BL	BL	X
82	Solder Point	BL	BL	BL	BL	N/A
83	Yellow LED	BL	BL	BL	BL	BL
84	Green LED	BL	BL	BL	BL	BL
85	Gold Metal Case	X	BL	BL	BL	N/A
86	Black Plastic Shell	BL	BL	BL	BL	BL
87	Gold Metal Terminal	BL	BL	BL	BL	N/A
88	Silver Metal Case	BL	BL	BL	BL	N/A
89	Internal Black Plastic	BL	BL	BL	BL	BL
90	Silver Metal Needle	BL	BL	BL	BL	N/A
91	Patch Coil Inductor	BL	BL	BL	BL	BL
92	Copper Winding	BL	BL	BL	BL	N/A
93	Silver Metal Case	BL	BL	BL	X	N/A
94	Internal Black Plastic	BL	BL	BL	BL	BL
95	Silver Metal Needle	BL	BL	BL	BL	N/A
96	PCB	BL	BL	BL	BL	X
97	Solder Point	BL	BL	BL	BL	N/A
98	Gold Metal Socket	BL	BL	BL	BL	N/A
99	Black Ceramic Body Chip	BL	BL	BL	BL	BL
100	Patch Resistor	BL	BL	BL	BL	BL

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 7 of 34

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
101	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
102	Crystal Oscillator	BL	BL	BL	BL	N/A
103	Gold Metal Sheet	BL	BL	BL	BL	N/A
104	PCB	BL	BL	BL	BL	X
105	Solder Point	BL	BL	BL	BL	N/A
106	Black Plastic Case	BL	BL	BL	BL	X
107	Silver Metal Needle	BL	BL	BL	BL	N/A
108	Black Plastic Case	BL	BL	BL	BL	BL
109	Gold Metal Needle	BL	BL	BL	BL	N/A
110	Black Plastic Case	BL	BL	BL	BL	BL
111	Gold Metal Needle	BL	BL	BL	BL	N/A
112	Black Plastic Cover	BL	BL	BL	BL	X
113	Internal Silver Metal	BL	BL	BL	BL	N/A
114	Black Plastic Case	BL	BL	BL	BL	BL
115	Silver Metal Case	BL	BL	BL	BL	N/A
116	Black Plastic Button	BL	BL	BL	BL	BL
117	Copper Sheet	BL	BL	BL	BL	N/A
118	Black Ceramic Body Chip	BL	BL	BL	BL	BL
119	Patch Resistor	BL	BL	BL	BL	BL
120	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 8 of 34

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
121	Triode	BL	BL	BL	BL	BL
122	Black Plastic Shell	BL	BL	BL	BL	BL
123	Yellow LED	BL	BL	BL	BL	BL
124	Green LED	BL	BL	BL	BL	BL
125	Gold Metal Pin	BL	BL	BL	BL	N/A
126	Black Plastic Case	BL	BL	BL	BL	X
127	Gold Metal Terminal	BL	BL	BL	BL	N/A
128	Black Plastic Case	BL	BL	BL	BL	BL
129	Gold Metal Case	X	BL	BL	BL	N/A
130	Internal White Plastic	BL	BL	BL	BL	BL
131	Gold Metal Needle	BL	BL	BL	BL	N/A
132	Silver Metal Case	BL	BL	BL	BL	N/A
133	Silver Metal Mesh	BL	BL	BL	BL	N/A
134	Pink Heat Shrink Tube Sleeve	BL	BL	BL	BL	BL
135	White Plastic Wire Outer Skin	BL	BL	BL	BL	BL
136	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
137	Black Soft Plastic	BL	BL	BL	BL	BL
138	Black Plastic Case	BL	BL	BL	BL	BL
139	Gold Metal Tube	BL	BL	BL	BL	N/A
140	Solder Point	BL	BL	BL	BL	N/A

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 9 of 34

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
141	Gold Metal Tube	BL	BL	BL	BL	N/A
142	Internal White Soft Plastic	BL	BL	BL	BL	BL
143	Black Plastic Case	BL	BL	BL	BL	BL
144	Black Plastic Cover	BL	BL	BL	BL	BL
145	Silver Metal Plug	X	BL	BL	BL	N/A
146	Black Plastic Sheet	BL	BL	BL	BL	BL
147	Black Plastic Cover	BL	BL	BL	BL	BL
148	Silver Metal Plug	BL	BL	BL	BL	N/A
149	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
150	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
151	PCB	BL	BL	BL	BL	X
152	Solder Point	BL	BL	BL	BL	N/A
153	Black Ceramic Body Chip	BL	BL	BL	BL	BL
154	Patch Resistor	BL	BL	BL	BL	BL
155	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
156	Patch Diode	BL	BL	BL	BL	BL
157	Triode	BL	BL	BL	BL	BL
158	Electrolytic Capacitor Outer Layer Plastic Leather	BL	BL	BL	BL	BL
159	Electrolytic Capacitor Silver Metal Case	BL	BL	BL	BL	N/A
160	Electrolytic Capacitor Internal Sticker	BL	BL	BL	BL	BL

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 10 of 34

Seq. No.	Tested Part(s)	Results				
		Pb	Cd	Hg	Cr	Br
161	Silver Metal Pin	BL	BL	BL	BL	N/A
162	Blue Ceramic Capacitors	BL	BL	BL	BL	BL
163	Silver Metal Pin	BL	BL	BL	BL	N/A
164	Electrolytic Capacitor Silver Metal Case	BL	BL	BL	BL	BL
165	Electrolytic Capacitor Internal Sticker	BL	BL	BL	BL	BL
166	Silver Metal Pin	BL	BL	BL	BL	N/A
167	Yellow Plastic Sticker	BL	BL	BL	BL	BL
168	Black Square Magnetic Ring	BL	BL	BL	BL	BL
169	Transformer Ceramic Frame	BL	BL	BL	BL	BL
170	Transformer Copper Winding	BL	BL	BL	BL	N/A
171	Silver Metal Pin	BL	BL	BL	BL	N/A
172	White Viscose	BL	BL	BL	BL	BL
173	Toroid Inductor	BL	BL	BL	BL	BL
174	Copper Winding	BL	BL	BL	BL	N/A
175	Silver Metal Case	BL	BL	BL	BL	N/A
176	Black Ceramic Capacitors	BL	BL	BL	BL	BL
177	Silver Metal Pin	BL	BL	BL	BL	N/A
178	Black Plastic Case	BL	BL	BL	BL	BL
179	Silver Metal Fuse	BL	BL	BL	BL	N/A
180	Safety Gauge Capacitance	BL	BL	BL	BL	X

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 11 of 34

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		Pb	Cd	Hg	Cr	Br
181	Silver Metal Pin	BL	BL	BL	BL	N/A
182	Silver Metal Frame	BL	BL	BL	X	N/A
183	Yellow Plastic Sticker	BL	BL	BL	BL	BL
184	Black Square Magnetic Ring	BL	BL	BL	BL	BL
185	Transformer Ceramic Frame	BL	BL	BL	BL	BL
186	Transformer Copper Winding	BL	BL	BL	BL	N/A
187	Silver Metal Pin	BL	BL	BL	BL	N/A
188	Black Soft Plastic	BL	BL	BL	BL	BL
189	Silver Metal Case	BL	BL	BL	X	N/A
190	Internal Black Plastic	BL	BL	BL	BL	BL
191	Silver Metal Needle	BL	BL	BL	BL	N/A
192	PCB	BL	BL	BL	BL	X
193	Solder Point	BL	BL	BL	BL	N/A
194	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
195	Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
196	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
197	Black Plastic Skin	BL	BL	BL	BL	BL
198	Black Plastic Fasteners	BL	BL	BL	BL	BL

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 12 of 34

Remark:

- (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.

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
X = Inconclusive
N/A = Not Applicable

- (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.

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 13 of 34

(3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives 2015/863/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
Polybrominated diphenylethers (PBDEs)	≤1000

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 14 of 34

2、The Test Results of Chemical Method:

Test method:

Lead, Cadmium, Mercury Content:

With reference to IEC 62321-5:2013 and IEC62321-4:2013+AMD1:2017, by acid digestion and analysis was performed by Inductively Coupled Plasma- Atomic Emission Spectrophotometer (ICP-AES)

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)

Hexavalent Chromium Content (For non-metal material):

With reference to IEC 62321-7-2:2017, by alkaline digestion 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)

DEHP, BBP, DBP&.DIBP content:

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

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 15 of 34

1) The test results of Cr (VI)

Item	Unit	MDL	Results					Limit
			45	50	53	73	93	
Hexavalent Chromium (Cr (VI)) (Metal material)	$\mu\text{g}/\text{cm}^2$	/	Negative	Negative	Negative	Negative	Negative	#
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results		Limit
			182	189	
Hexavalent Chromium (Cr (VI)) (Metal material)	$\mu\text{g}/\text{cm}^2$	/	Negative	Negative	#
Conclusion	/	/	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- Negative= Sample Cr(VI) concentration is less than $0.10 \mu\text{g}/\text{cm}^2$
Positive = Sample Cr(VI) concentration is greater than $0.13 \mu\text{g}/\text{cm}^2$
- # =
Positive indicates the presence of Cr(VI) on the tested areas and the test results are considered to be incompatible with Directive 2011/65/EU (RoHS 2.0) requirement.
Negative indicates the absence of Cr(VI) on the tested areas and the test results are considered to be consistent with Directive 2011/65/EU (RoHS 2.0) requirement.
- mg/kg = ppm

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 16 of 34

2) The test results of Pb

Item	Unit	MDL	Results				Limit
			5 [^]	14 [^]	15 [^]	23 [^]	
Lead(Pb)	mg/kg	2	14326	15079	12451	13508	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results				Limit
			25 [^]	85 [^]	129 [^]	145 [^]	
Lead(Pb)	mg/kg	2	12816	16702	16915	10963	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- MDL = Method Detection Limit
- mg/kg = ppm
- [^]= the weight of lead in the copper alloy does not exceed 4%(40000ppm).

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TEST REPORT

REPORT No.: DTIBW20220259-3

Date: 2022-03-03

Page 17 of 34

3) The test results of PBBs & PBDEs

Item	Unit	MDL	Results					Limit
			30	55	58	68	74	
Polybrominated Biphenyls (PBBs)								
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 (PBDEs)(Mon-Deca)								
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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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 18 of 34

Item	Unit	MDL	Results					Limit
			77	81	96	104	106	
Polybrominated Biphenyls (PBBs)								
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 (PBDEs)(Mon-Deca)								
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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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 19 of 34

Item	Unit	MDL	Results					Limit
			112	126	151	180	192	
Polybrominated Biphenyls (PBBs)								
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 (PBDEs)(Mon-Deca)								
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	/

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 20 of 34

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

Item	Unit	MDL	Results					Limit
			1	2	3	6	7	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			9	12	13	16	18	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			19	28	29	30	33	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 21 of 34

Item	Unit	MDL	Results					Limit
			34	35	36	37	38	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			39	42	43	46	48	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			51	52	54	55	57	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 22 of 34

Item	Unit	MDL	Results					Limit
			58	60	62	63	64	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			65	66	67	68	71	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			74	77	79	81	83	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 23 of 34

Item	Unit	MDL	Results					Limit
			84	86	89	91	94	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			96	99	100	101	104	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			106	108	110	112	114	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 24 of 34

Item	Unit	MDL	Results					Limit
			116	118	119	120	121	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			122	123	124	126	128	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			130	134	135	137	138	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 25 of 34

Item	Unit	MDL	Results					Limit
			142	143	144	146	147	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			149	151	153	154	155	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			156	157	158	160	162	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 26 of 34

Item	Unit	MDL	Results					Limit
			164	165	167	168	169	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			172	173	176	178	180	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Results					Limit
			183	184	185	188	190	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 27 of 34

Item	Unit	MDL	Results					Limit
			192	194	195	197	198	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	≤1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

Note:

- N.D. = Not Detected or less than MDL
- mg/kg = ppm
- MDL = Method Detection Limit
- Decision rule: According to DTI-CX-39-2020 《Decision rule for conformity of the test results》
- Flow chart appendix is included.
- Photo appendix is included.

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Shenzhen Deesev Testing International Corp.
深圳市德泽威技术检测有限公司

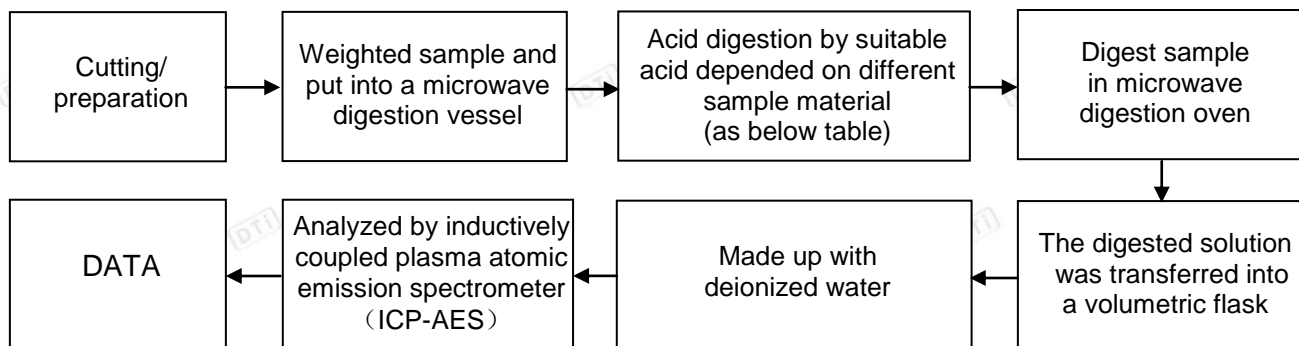
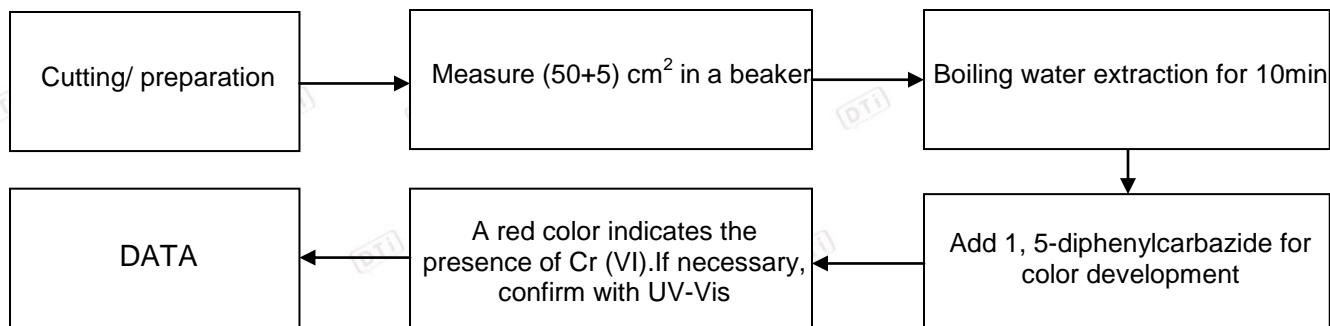
9th Flr., Building B, Feiyang Science & Technology Park, Longchang Rd. No.8, Bao'an, Shenzhen, Guangdong, China
中国 广东省 深圳市 宝安区 隆昌路 8号 飞扬科技园 8座9楼
Tel: +86-755-32936716 E-mail: DTI@deesev.cn

Appendix I

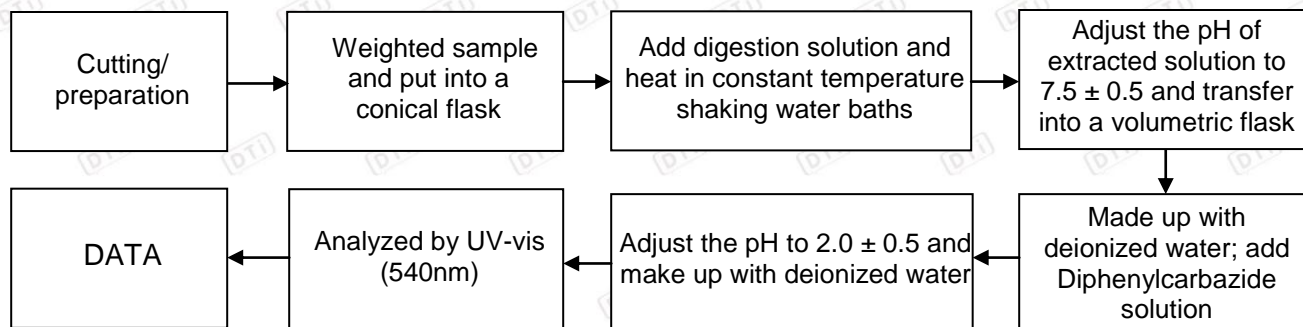
Test Flow chart

1. Test Flowchart for Cd / Pb /Hg content

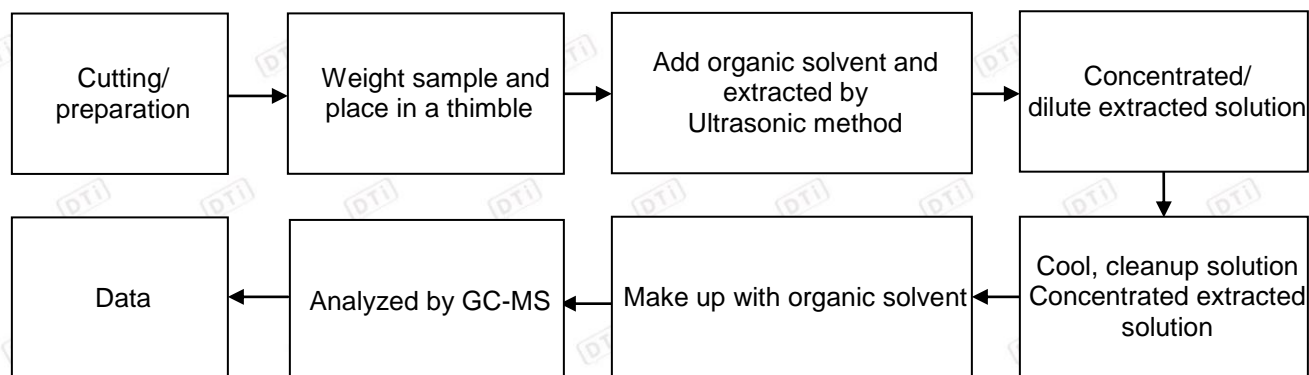
These samples were dissolved totally by pre-conditioning method according to below flow chart.

2. Test Flowchart for Cr⁶⁺ content (Metal material)

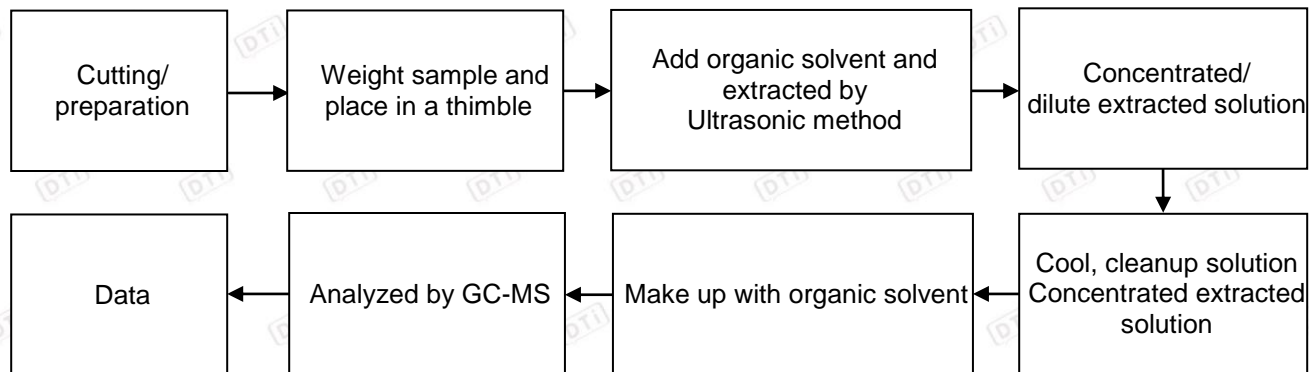
3. Test Flowchart for Cr⁶⁺ content (Non-metal material)



4. Test Flowchart for PBBs & PBDEs content



5. Test Flowchart for DEHP, BBP, DBP & DIBP content





TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 30 of 34

Table:

Sample material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCl, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion

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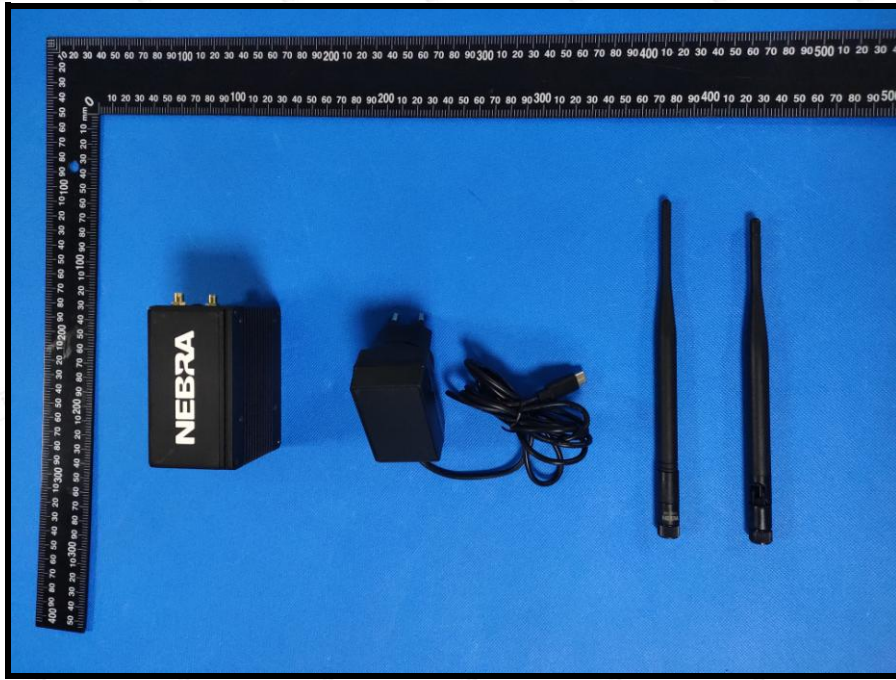


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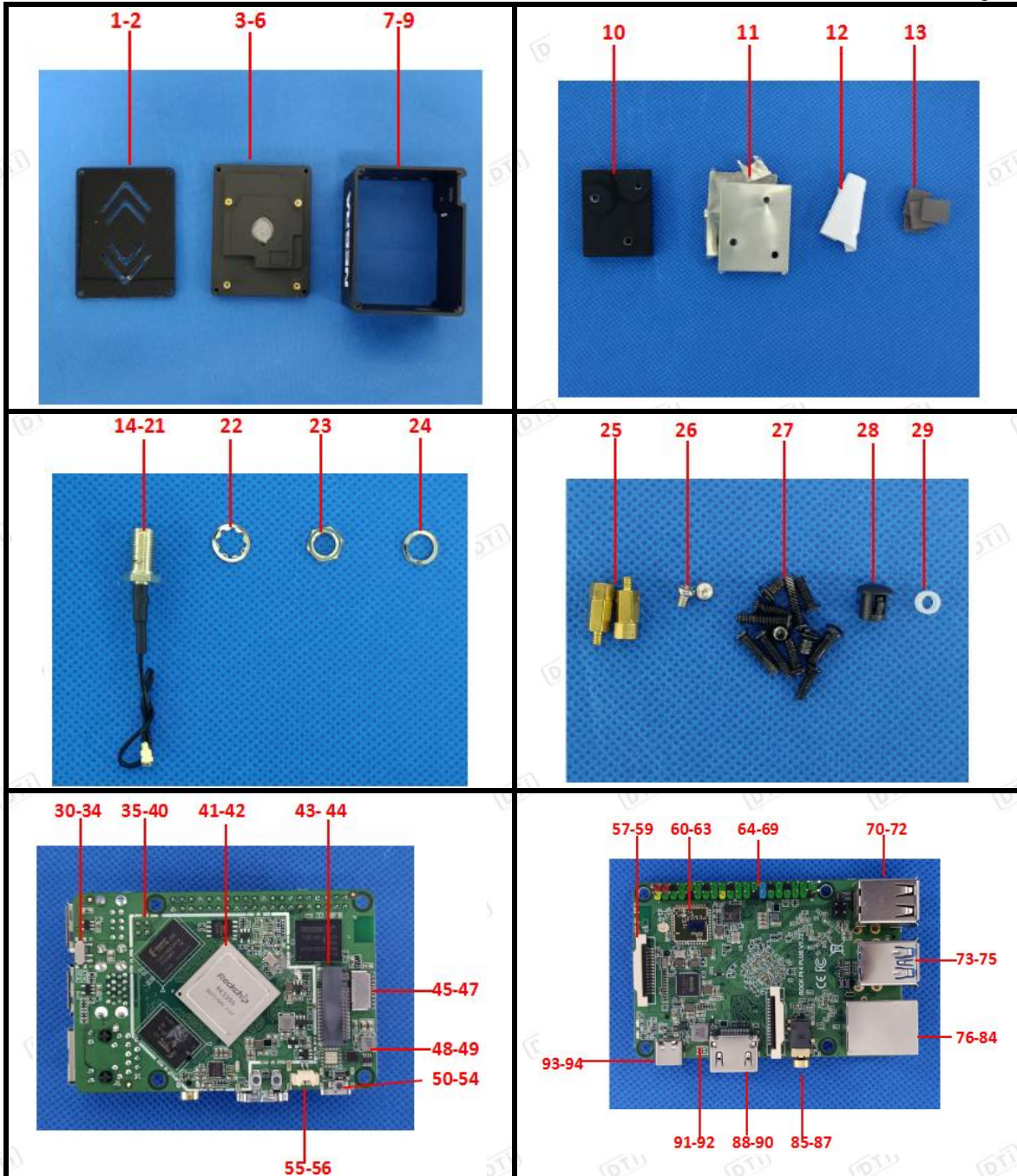
9th Flr., Building B, Feiyang Science & Technology Park, Longchang Rd. No.8, Bao'an, Shenzhen, Guangdong, China
中国 广东省 深圳市 宝安区 隆昌路 8号 飞扬科技园 8座9楼
Tel: +86-755-32936716 E-mail: DTI@deesev.cn

Appendix II

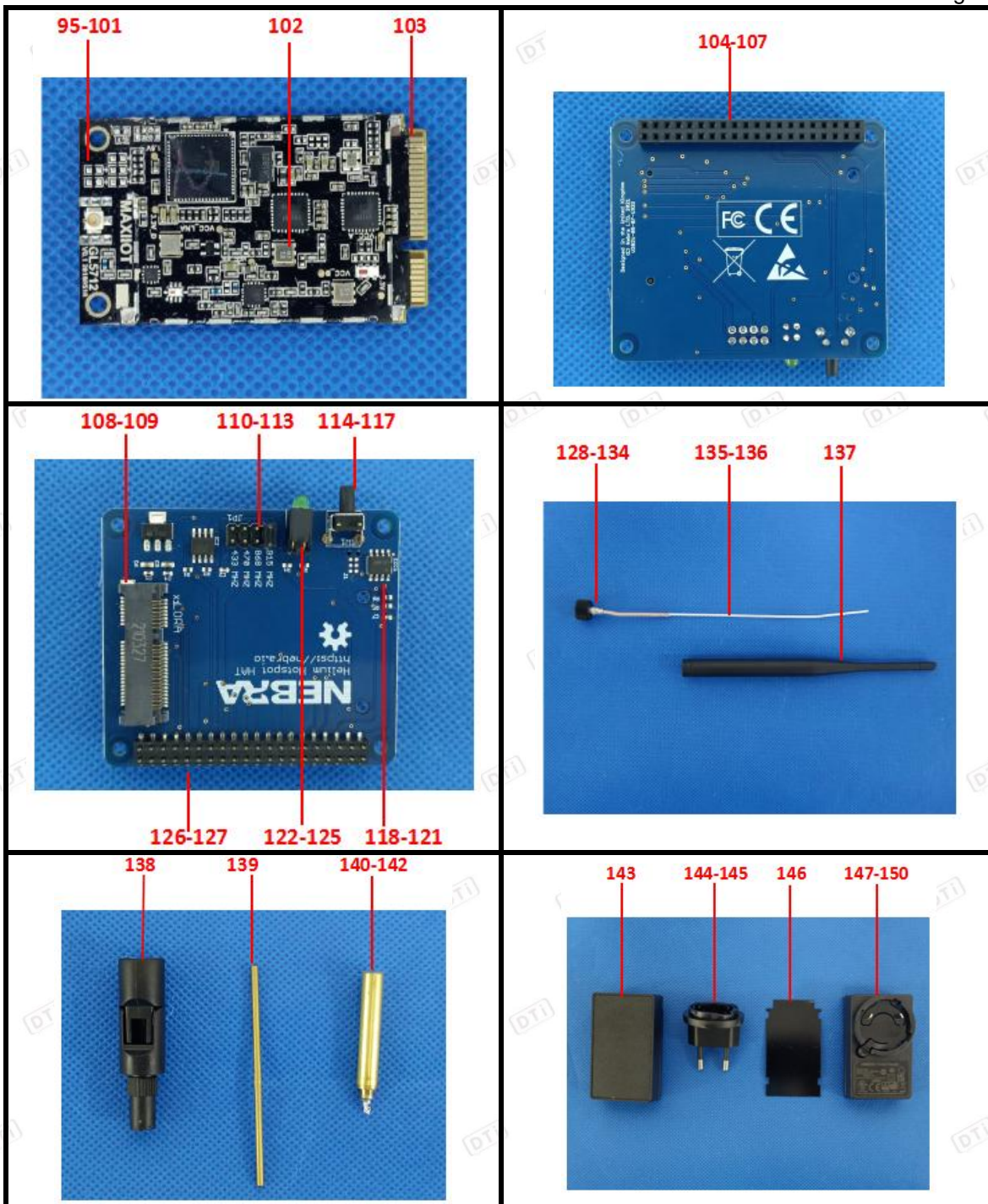
Photograph of Sample



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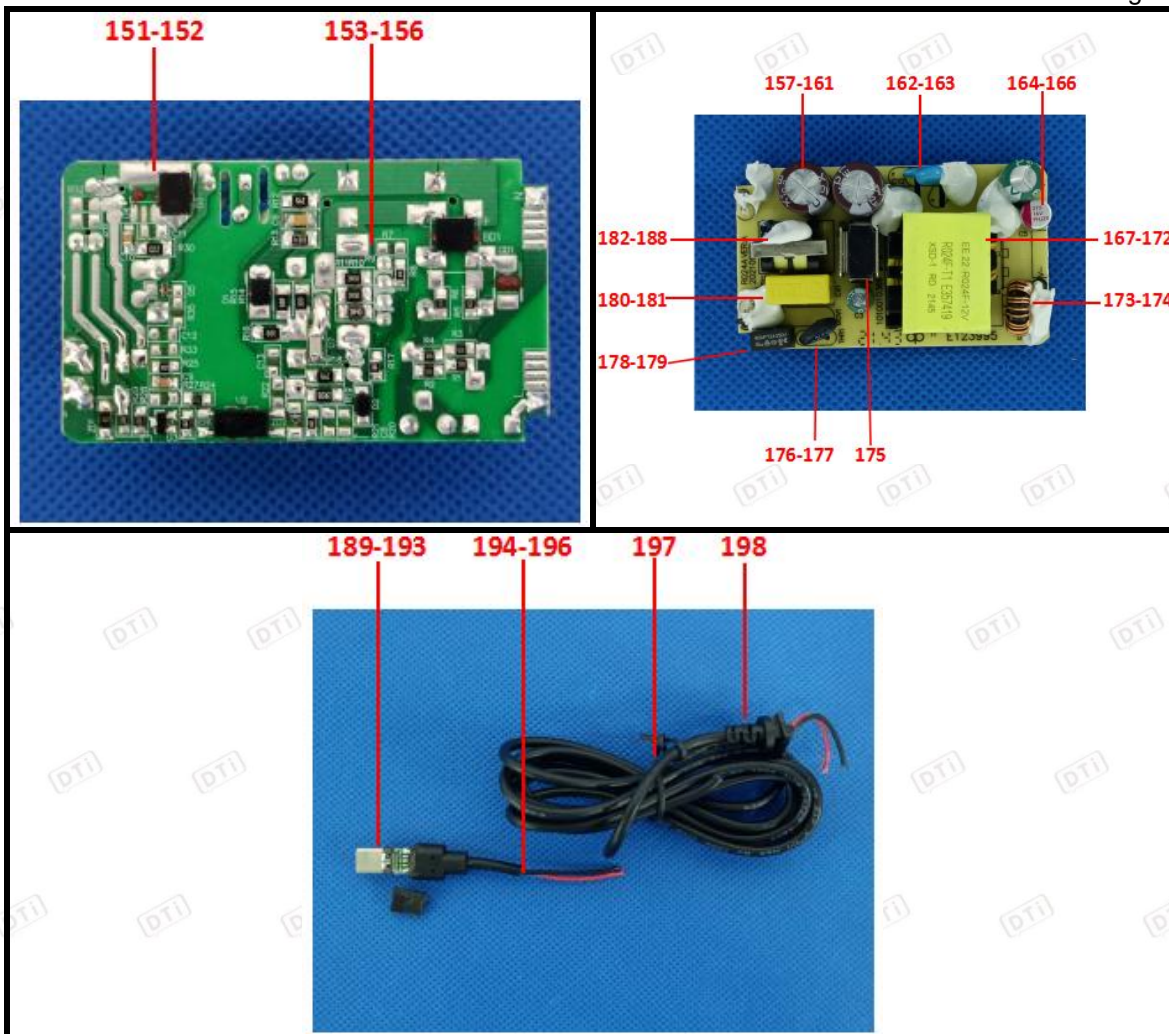
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TEST REPORT

REPORT No.: **DTIBW20220259-3**

Date: 2022-03-03

Page 34 of 34



*** End of Report ***

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