

Report No.: 18300RC20382701

Test Report

Client Name : EcoFlow Inc.

Client Address : Plant A202, Founder Technology Industrial Park,
Shiyan Sub-district, Bao'an District Shenzhen,
Guangdong 518000 China

Product Name : Portable Power Station

Report Date : Sept. 23, 2022



Shenzhen Anbotech Compliance Laboratory Limited

Shenzhen Anbotech Compliance Laboratory Limited

Address: East of 4/F., Building A, Hourui No.3 Industrial Zone, Xixiang Street, Bao'an District, Shenzhen, Guangdong, China
Tel: (86) 0755-26066126 Fax: (86) 0755-26066021 Email: service@anbotech.com

 Hotline
400-003-0500
www.anbotech.com.cn



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 1 of 47

Applicant : EcoFlow Inc.

Address : Plant A202, Founder Technology Industrial Park, Shiyan Sub-district,
Bao'an District Shenzhen, Guangdong 518000 China

The submitted sample and sample information was/were submitted and identified by/on the behalf of the client

Sample Name : Portable Power Station

Test Model No. : EFR620

Manufacturer : EcoFlow Inc.

Trade Mark :



ECOFLOW

Sample Received Date : July 26, 2022

Testing Period : July 26, 2022 to Sept. 19, 2022

Test Requested : As specified by client, based on the list published by European chemicals agency (ECHA) for public consultation regarding regulation (EC) No 1907/2006 concerning the REACH, to determine the two hundred and twenty-four (224) Substances of Very High Concern (SVHC) in the selected material of the submitted sample.

Test Method: In-House method-Analyzed by ICP-OES, UV-Vis, HPLC, LC-MS-MS, GC, GC-MS and colorimetric method

Test Result(s): Please refer to the following page(s).

Summary:

According to the ruling of the Court of Justice of the European Union on the definition of an article under REACH, and the specified scope and evaluation screening, the test results of SVHC are >0.1%(w/w) in the articles of the submitted sample.

-Lead

Warning

Edited by

XUPengQi

Reviewed by

QinNa

Authorized Signatory

Signature



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 2 of 47

Tested Sample/Part Description:

Tested Groups	Description	Photo No.	Component
A#	Metal mixed	5	Silvery metal plug
		7	Copper-colored metal plug
		10	Silvery metal mat
		11	Silvery metal screw
		12	Silvery metal sheet
		13	Silvery metal pin
		19	Copper-colored metal socket
		22	Silvery metal socket
		27	Silvery metal shell
		32	Silvery metal contact pin
		41	Silvery metal shell
		42	Silvery metal shell
		43	Silvery metal contact pin
		45	Copper-colored metal pin
		46	Silvery metal shell
		47	Silvery metal shell
		49	Silvery metal shell
		50	Copper-colored metal pin
		60	Copper-colored metal block
		64	Silvery metal soldering tin
		65	Silvery metal crystal oscillator
		70	Silvery metal cover
		74	Silvery metal block
		77	Silvery metal pin
		80	Copper-colored metal wire core
		81	Silvery metal block
		82	Silvery metal sheet
		87	Copper-colored metal wire core
		91	Silvery metal shell
		109	Silvery metal contact pin
		114	Copper-colored metal wire core
		116	Copper-colored metal plug
		124	Silvery metal soldering tin



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 3 of 47

Tested Groups	Description	Photo No.	Component
A#	Metal mixed	127	Silvery metal pin
		128	Silvery metal shrapnel
		131	Silvery metal sheet
		138	Silvery metal sheet
		139	Copper-colored metal wire
		146	Silvery metal block
		147	Silvery metal pillar
		148	Silvery metal shell
		150	Metal buckle with black coating
		158	Copper-colored metal stud
		166	Silvery metal plug
		169	Copper-colored metal socket
		171	Silvery metal plug
		172	Copper-colored metal socket
		179	Silvery metal shell
B#	Nonmetal mixed	1	Transparent plastic sheet
		2	Yellow plastic button
		3	Black plastic shell
		4	Grey rubber stopper
		6	Black plastic shell
		8	Orange plastic shell
		9	Black rubber foot pad
		14	Black heat shrink sleeve
		15	Gray foam sheet
		16	Red heat shrink sleeve
		17	Green-yellow plastic jacket
		18	Black heat shrink sleeve
		20	Translucent plastic terminal
		21	Chip capacitor
		23	Red plastic jacket
		24	Black plastic jacket
		25	Grey inductor
		26	IC
		28	Chip resistor
		29	Black plastic pedestal



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 4 of 47

Tested Groups	Description	Photo No.	Component
B#	Nonmetal mixed	30	Green PCB board
		31	Beige plastic port
		33	Audion
		34	Chip diode
		35	Red plastic jacket
		36	Black glue
		37	Translucent rubber sheath
		38	Yellow FPC
		39	Black glass screen
		40	Black plastic frame
		44	Black inner plastic
		48	Black inner plastic
		51	Red plastic jacket
		52	Black plastic jacket
		53	White LED
		54	White PCB board
		55	Transparent plastic sheet
		56	White plastic sheet
		57	White plastic sheet
		58	Black plastic shell
		59	Black foam sticker
		61	Copper-colored plastic sheet
		62	Chip audion
		63	Black plastic block
		66	Blue chip resistor
		67	IC
		68	Black PCB board
		69	Black glue
		71	Blue Y capacitor
		72	Yellow transparent tape
		73	Black MOS tube
		75	Gray plastic sheet
		76	IC
		78	Black magnet
		79	Chip capacitor



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 5 of 47

Tested Groups	Description	Photo No.	Component
B#	Nonmetal mixed	83	IC
		84	White plastic socket
		85	Green magnetic ring
		86	Black plastic shell
		88	Grey plastic shell
		89	Black heat shrink sleeve
		90	Blue capacitor
		92	Black heat shrink sleeve
		93	White plastic jacket
		94	Black plastic jacket
		95	Black heat shrink sleeve
		96	Red plastic jacket
		97	Blue capacitor
		98	White cement resistor
		99	White capacitor
		100	Yellow transparent tape
		101	Blue capacitor
		102	Black resistor
		103	White plastic socket
		104	Black heat shrink sleeve
		105	Transparent plastic jacket
		106	Yellow adhesive paper
		107	Black plastic frame
		108	Black magnet frame
		110	Rectifier bridge
		111	White plastic socket
		112	Chip audion
		113	IC
		115	Black component
		117	Yellow plastic shell
		118	Transparent plastic jacket
		119	Green electrolytic capacitor scarfskin
		120	Black plastic jacket
		121	Green PCB board
		122	IC



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 6 of 47

Tested Groups	Description	Photo No.	Component
B#	Nonmetal mixed	123	IC
		125	IC
		126	Black plastic pedestal
		129	Yellow LED
		130	Black plastic button
		132	Green PCB board
		133	Black plastic sheet
		134	Black label
		135	Black plastic jacket
		136	Red plastic jacket
		137	Black heat shrink sleeve
		140	Black plastic frame
		141	White plastic jacket
		142	Blue PCB board
		143	Black plastic frame
		144	Black foam sticker
		145	Black magnet
		149	Black plastic fan
		151	White plastic ring
		152	Black plastic jacket
		153	White glue
		154	Red plastic jacket
		155	Green plastic scarfskin
		156	Black heat shrink sleeve
		157	White plastic jacket
		159	Black sensor
		160	Black plastic jacket
		161	Black foam sheet
		162	Black plastic sticker
		163	Black plastic wire sleeve
		164	Black rubber sheath
		165	Black plastic shell
		167	Black plastic scarfskin
		168	Orange-red plastic shell
		170	Black plastic scarfskin



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 7 of 47

Tested Groups	Description	Photo No.	Component
B#	Nonmetal mixed	173	Black plastic wire sleeve
		174	Brown plastic jacket
		175	Green plastic jacket
		176	Blue plastic jacket
		177	Black plastic wire sleeve
		178	Black plastic scarfskin

Test Result(s): (Substances in the Candidate List of SVHC)

Tested Groups	Code	Test Item	Report Results (%)
A#	185	Lead	2.62
	-	Other tested SVHC in Candidate List	N.D.
B#	-	All tested SVHC in Candidate List	N.D.



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 8 of 47

Attachment (Full list of tested SVHC):

The first: Fifteen Substances of Very High Concern (Released in Oct, 2008)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
1	Bis(tributyltin)oxide (TBTO)	56-35-9	200-268-0	0.005
2	Diarsenic pentaoxide**	1303-28-2	215-116-9	0.01
3	Diarsenic trioxide**	1327-53-3	215-481-4	0.01
4	Triethyl arsenate**	15606-95-8	427-700-2	0.01
5	Lead hydrogen arsenate**	7784-40-9	232-064-2	0.01
6	Cobalt dichloride**	7646-79-9	231-589-4	0.01
7	Sodium dichromate **	7789-12-0, 10588-01-9	234-190-3	0.01
8	Anthracene	120-12-7	204-371-1	0.005
9	4,4'-Diaminodiphenylmethane (MDA)	101-77-9	202-974-4	0.005
10	Dibutyl phthalate (DBP)	84-74-2	201-557-4	0.005
11	Benzyl butyl phthalate (BBP)	85-68-7	201-622-7	0.005
12	5-tert-butyl-2,4,6-trinitro-m-xylene (musk xylene)	81-15-2	201-329-4	0.005
13	Di-2-ethylhexyl phthalate(DEHP)	117-81-7	204-211-0	0.005
14	Hexabromocyclododecane(HBCDD) and all major diastereoisomers identified	25637-99-4, 3194-55-6 (134237-50-6, 134237-51-7, 134237-52-8)	247-148-4, 221-695-9	0.005
15	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	287-476-5	0.01



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 9 of 47

The second: Thirteen Substances of Very High Concern (Released in Jan, 2010 and Mar, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
16	Anthracene oil	90640-80-5	292-602-7	0.05
17	Anthracene oil, anthracene paste, distn. lights	91995-17-4	295-278-5	0.05
18	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.05
19	Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.05
20	Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.05
21	Pitch, coal tar, high temp.	65996-93-2	266-028-2	0.05
22	Acrylamide	79-06-1	201-173-7	0.01
23	2,4-Dinitrotoluene	121-14-2	204-450-0	0.01
24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.005
25	Lead chromate**	7758-97-6	231-846-0	0.05
26	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) **	12656-85-8	235-759-9	0.05
27	Lead sulfochromate yellow (C.I. Pigment Yellow 34) **	1344-37-2	215-693-7	0.05
28	Tris(2-chloroethyl)phosphate	115-96-8	204-118-5	0.01

The third: Eight Substances of Very High Concern (Released in Jun, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
29	Trichloroethylene	79-01-6	201-167-4	0.005
30	Boric acid**	10043-35-3/ 11113-50-1	233-139-2/ 234-343-4	0.01
31	Disodium tetraborate, anhydrous**	1330-43-4/ 12179-04-3/ 1303-96-4	215-540-4	0.01
32	Tetraboron disodium heptaoxide, hydrate**	12267-73-1	235-541-3	0.01



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 10 of 47

Code	Test Item	CAS No.	EC No.	Report Limit (%)
33	Sodium chromate**	7775-11-3	231-889-5	0.01
34	Potassium chromate**	7789-00-6	232-140-5	0.01
35	Ammonium dichromate**	7789-09-5	232-143-1	0.01
36	Potassium dichromate**	7778-50-9	231-906-6	0.01

The fourth: Eight Substances of Very High Concern (Released in Dec, 2010)

Code	Test Item	CAS No.	EC No.	Report Limit (%)	
37	Cobalt(II) sulphate**	10124-43-3	233-334-2	0.01	
38	Cobalt(II) dinitrate**	10141-05-6	233-402-1	0.01	
39	Cobalt(II) carbonate**	513-79-1	208-169-4	0.01	
40	Cobalt(II) diacetate**	71-48-7	200-755-8	0.01	
41	2-Methoxyethanol	109-86-4	203-713-7	0.005	
42	2-Ethoxyethanol	110-80-5	203-804-1	0.005	
43	Chromium trioxide**	1333-82-0	215-607-8	0.01	
44	Acids generated from chromium trioxide and their oligomers	Chromic acid**	7738-94-5	231-801-5	0.01
		Dichromic acid**	13530-68-2	236-881-5	0.01
		Oligomers of chromic acid and dichromic acid**	--	--	0.01



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 11 of 47

The fifth: Seven Substances of Very High Concern (Released in Jun, 2011)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
45	2-Ethoxyethyl acetate	111-15-9	203-839-2	0.01
46	Strontium chromate**	7789-06-2	232-142-6	0.01
47	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters(DHNUP)*	68515-42-4	271-084-6	0.01
48	Hydrazine	7803-57-8/ 302-01-2	206-114-9	0.01
49	1-Methyl-2-pyrrolidone	872-50-4	212-828-1	0.01
50	1,2,3-Trichloropropane	96-18-4	202-486-1	0.01
51	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich(DIHP)	71888-89-6	276-158-1	0.01

The sixth: Twenty Substances of Very High Concern (Released in Dec, 2011)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
52	Dichromium tris(chromate)**	24613-89-6	246-356-2	0.01
53	Potassium hydroxyoctaoxodizincatedichromate**	11103-86-9	234-329-8	0.01
54	Pentazinc chromate octahydroxide**	49663-84-5	256-418-0	0.01
55	Aluminosilicate Refractory Ceramic Fibres (RCF)**	--	--	0.05
56	Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF)**	--	--	0.05
57	Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.01
58	Bis(2-methoxyethyl) phthalate (DMEP)	117-82-8	204-212-6	0.005
59	2-Methoxyaniline; o-Anisidine	90-04-0	201-963-1	0.005



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 12 of 47

Code	Test Item	CAS No.	EC No.	Report Limit (%)
60	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated	140-66-9	205-426-2	0.005
61	1,2-Dichloroethane	107-06-2	203-458-1	0.005
62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.005
63	Arsenic acid**	7778-39-4	231-901-9	0.01
64	Calcium arsenate**	7778-44-1	231-904-5	0.01
65	Trilead diarsenate**	3687-31-8	222-979-5	0.01
66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.005
67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.005
68	Phenolphthalein	77-09-8	201-004-7	0.005
69	Lead diazide Lead azide **	13424-46-9	236-542-1	0.01
70	Lead styphnate**	15245-44-0	239-290-0	0.01
71	Lead dipicrate**	6477-64-1	229-335-2	0.01

The seventh: Thirteen Substances of Very High Concern (Released in Jun, 2012)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
72	1,2-bis(2-methoxyethoxy)ethane(TEG DME; triglyme)	112-49-2	203-977-3	0.01
73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.01
74	Diboron trioxide**	1303-86-2	215-125-8	0.01
75	Formamide	75-12-7	200-842-0	0.01
76	Lead(II) bis(methanesulfonate) **	17570-76-2	401-750-5	0.01
77	TGIC (1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	0.01



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 13 of 47

Code	Test Item	CAS No.	EC No.	Report Limit (%)
78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	0.01
79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	0.01
80	N,N,N',N'-tetramethyl-4,4'-methylenedi aniline (Michler's base)	101-61-1	202-959-2	0.01
81	[4-[4,4'-bis(dimethylamino) benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Violet 3)	548-62-9	208-953-6	0.01
82	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl] methylene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride (C.I. Basic Blue 26)	2580-56-5	219-943-6	0.01
83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino) naphthalene-1-methanol (C.I. Solvent Blue 4)	6786-83-0	229-851-8	0.01
84	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol	561-41-1	209-218-2	0.01



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 14 of 47

The eighth: Fifty-four Substances of Very High Concern (Released in Dec, 2012)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
85	Bis(pentabromophenyl) ether (DecaBDE)	1163-19-5	214-604-9	0.05
86	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.05
87	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.05
88	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.05
89	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.05
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated -covering well-defined substances and UVCB substances, polymers and homologues	--	--	0.05
91	4-Nonylphenol, branched and linear - substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	--	--	0.05
92	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.05
93	Cyclohexane-1,2-dicarboxylic anhydride (Hexahydrophthalic anhydride - HHPA)	85-42-7 13149-00-3 14166-21-3	201-604-9 236-086-3 238-009-9	0.05



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 15 of 47

Code	Test Item	CAS No.	EC No.	Report Limit (%)
94	Hexahydromethylphthalic anhy, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	247-094-1, 243-072-0, 256-356-4, 260-566-1	0.05
95	Methoxy acetic acid	625-45-6	210-894-6	0.05
96	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.05
97	Diisopentylphthalate (DIPP)	605-50-5	210-088-4	0.05
98	n-pentyl-isopentylphthalate	776297-69-9	--	0.05
99	1,2-Diethoxyethane	629-14-1	211-076-1	0.05
100	N,N-dimethylformamide	68-12-2	200-679-5	0.05
101	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	0.05
102	Acetic acid, lead salt, basic**	51404-69-4	257-175-3	0.01
103	Basic lead carbonate (trilead bis(carbonate)dihydroxide) **	1319-46-6	215-290-6	0.01
104	Lead oxide sulfate (basic lead sulfate) **	12036-76-9	234-853-7	0.01
105	[Phthalato(2-)]dioxotrilead (dibasic lead phthalate) **	69011-06-9	273-688-5	0.01
106	Dioxobis(stearato)trilead**	12578-12-0	235-702-8	0.01
107	Fatty acids, C16-18, lead salts**	91031-62-8	292-966-7	0.01
108	Lead bis(tetrafluoroborate) **	13814-96-5	237-486-0	0.01
109	Lead cyanamidate**	20837-86-9	244-073-9	0.01
110	Lead dinitrate**	10099-74-8	233-245-9	0.01
111	Lead oxide (lead monoxide) **	1317-36-8	215-267-0	0.01
112	Lead tetroxide (orange lead) **	1314-41-6	215-235-6	0.01



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 16 of 47

Code	Test Item	CAS No.	EC No.	Report Limit (%)
113	Lead titanium trioxide**	12060-00-3	235-038-9	0.01
114	Lead Titanium Zirconium Oxide**	12626-81-2	235-727-4	0.01
115	Pentalead tetraoxide sulphate**	12065-90-6	235-067-7	0.01
116	Pyrochlore, antimony lead yellow**	8012 -00-8	232-382-1	0.01
117	Silicic acid, barium salt, lead-doped**	68784-75-8	272-271-5	0.01
118	Silicic acid, lead salt**	11120-22-2	234-363-3	0.01
119	Sulfurous acid, lead salt, dibasic**	62229-08-7	263-467-1	0.01
120	Tetraethyllead**	78-00-2	201-075-4	0.01
121	Tetralead trioxide sulphate**	12202-17-4	235-380-9	0.01
122	Trilead dioxide phosphonate**	12141-20-7	235-252-2	0.01
123	Furan	110-00-9	203-727-3	0.05
124	Propylene oxide; 1,2-epoxypropane; methyloxirane	75-56-9	200-879-2	0.05
125	Diethyl sulphate	64-67-5	200-589-6	0.05
126	Dimethyl sulphate	77-78-1	201-058-1	0.05
127	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.05
128	Dinoseb	88-85-7	201-861-7	0.05
129	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.05
130	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.05
131	4-Aminoazobenzene; 4-Phenylazoaniline	60-09-3	200-453-6	0.05
132	4-methyl-m-phenylenediamine (2,4-toluene-diamine)	95-80-7	202-453-1	0.05
133	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.05
134	Biphenyl-4-ylamine	92-67-1	202-177-1	0.05
135	o-aminoazotoluene	97-56-3	202-591-2	0.05
136	o-Toluidine; 2-Aminotoluene	95-53-4	202-429-0	0.05



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 17 of 47

Code	Test Item	CAS No.	EC No.	Report Limit (%)
137	N-methylacetamide	79-16-3	201-182-6	0.05
138	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	0.05

The ninth: Six Substances of Very High Concern (Released in Jun, 2013)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
139	Cadmium **	7440-43-9	231-152-8	0.01
140	Cadmium oxide **	1306-19-0	215-146-2	0.01
141	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.01
142	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues]	/	/	0.05
143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.01
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.01

The tenth: Seven Substances of Very High Concern (Released in Dec, 2013)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
145	Cadmium sulphide**	1306-23-6	215-147-8	0.01
146	Diethyl phthalate	84-75-3	201-559-5	0.01
147	C.I. Direct Red 28	573-58-0	209-358-4	0.01
148	C.I. Direct Black 38	1937-37-7	217-710-3	0.01



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 18 of 47

Code	Test Item	CAS No.	EC No.	Report Limit (%)
149	2-imidazoline-2-thiol	96-45-7	202-506-9	0.01
150	Lead di(acetate)**	301-04-2	206-104-4	0.01
151	Trixylyl phosphate	25155-23-1	246-677-8	0.01

The eleventh: Four Substances of Very High Concern (Released in Jun, 2014)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.01
153	Cadmium chloride**	10108-64-2	233-296-7	0.01
154	Sodium perborate; perboric acid, sodium salt**	-	239-172-9; 234-390-0	0.01
155	Sodium peroxometaborate**	7632-04-4	231-556-4	0.01

The twelfth: Six Substances of Very High Concern (Released in Dec, 2014)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
156	Cadmium fluoride**	7790-79-6	232-222-0	0.01
157	Cadmium sulphate**	10124-36-4, 31119-53-6	233-331-6	0.01
158	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	223-346-6	0.05
159	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-284-8	0.05
160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE)	15571-58-1	239-622-4	0.01



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 19 of 47

Code	Test Item	CAS No.	EC No.	Report Limit (%)
161	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	--	--	0.05

The thirteenth: Two Substances of Very High Concern (Released in Jun, 2015)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters	68515-51-5, 68648-93-1	271-094-0 272-013-1	0.05
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	--	--	0.05

The fourteen: Five Substances of Very High Concern (Released in Dec, 2015)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
164	Nitrobenzene	98-95-3	202-716-0	0.05
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.05
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.05
167	1,3-propanesultone	1120-71-4	214-317-9	0.05



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 20 of 47

Code	Test Item	CAS No.	EC No.	Report Limit (%)
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1 21049-39-8 4149-60-4	206-801-3	0.05

The fifteen: One Substance of Very High Concern (Released in Jun, 2016)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	200-028-5	0.05

The sixteen: Four Substance of Very High Concern (Released in Jan, 2017)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	201-245-8	0.005
171	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	335-76-2 3830-45-3 3108-42-7	206-400-3 - 221-470-5	0.005
172	p-(1,1-dimethylpropyl)phenol	80-46-6	201-280-9	0.005
173	4-heptylphenol, branched and linear (4-HPbl)	-	-	0.005



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 21 of 47

The seventeen: One Substance of Very High Concern (Released in Jul, 2017)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	-	-	0.005

The eighteen: Seven Substances of Very High Concern (Released in Jan, 2018)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]	-	-	0.005
176	Benz[a]anthracene	56-55-3, 1718-53-2	200-280-6	0.005
177	Cadmium nitrate**	10022-68-1, 10325-94-7	233-710-6	0.01
178	Cadmium carbonate**	513-78-0	208-168-9	0.01
179	Cadmium hydroxide**	21041-95-2	244-168-5	0.01
180	Chrysene	218-01-9, 1719-03-5	205-923-4	0.005
181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	-	-	0.005



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 22 of 47

The nineteen: Ten Substances of Very High Concern (Released in Jun, 2018)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
182	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.01
183	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.01
184	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.01
185	Lead**	7439-92-1	231-100-4	0.01
186	Disodium octaborate**	12008-41-2	234-541-0	0.01
187	Benzo[ghi]perylene	191-24-2	205-883-8	0.01
188	Terphenyl hydrogenated	61788-32-7	262-967-7	0.01
189	Ethylenediamine (EDA)	107-15-3	203-468-6	0.01
190	Trimellitic anhydride (TMA)	552-30-7	209-008-0	0.01
191	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.01

The twenty: Six Substances of Very High Concern (Released in Jan, 2019)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
192	Pyrene	129-00-0	204-927-3	0.01
193	Phenanthrene	85-01-8	201-581-5	0.01
194	Fluoranthene	206-44-0	205-912-4	0.01
195	Benzo[k]fluoranthene	207-08-9	205-916-6	0.01
196	2,2-bis(4'-hydroxyphenyl)-4-methylpentane (Bisphenol P)	6807-17-6	401-720-1	0.01
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor; 3-BC)	15087-24-8	239-139-9	0.01



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 23 of 47

The twenty one: Four Substances of Very High Concern (Released in July, 2019)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	-	-	0.01
199	4-tert-butylphenol	98-54-4	202-679-0	0.01
200	2-methoxyethyl acetate	110-49-6	203-772-9	0.01
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	-	-	0.01

The twenty two: Four Substances of Very High Concern (Released in Jan, 2020)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	0.01
203	2-methyl-1- (4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.01
204	Diisohexyl phthalate	71850-09-4	276-090-2	0.01
205	Perfluorobutane sulfonic acid (PFBS) and its salts	-	-	0.01



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 24 of 47

The twenty three: Four Substances of Very High Concern (Released in June 2020)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
206	1-vinylimidazole	1072-63-5	214-012-0	0.01
207	2-methylimidazole	693-98-1	211-765-7	0.01
208	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.01
209	Dibutylbis(pentane-2,4-dionato-O,O') tin	22673-19-4	245-152-0	0.01

The twenty four: Two Substances of Very High Concern (Released in Jan. 2021)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	205-594-7	0.01
211	Diocetyl tin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	-	-	0.01

The twenty five: Eight Substances of Very High Concern. (Released in July. 2021)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
212	1,4-dioxane	123-91-1	204-661-8	0.01
213	2,2-bis(bromomethyl) propane-1,3-diol (BMP)	3296-90-0	221-967-7	0.01
	2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA)	36483-57-5/ 1522-92-5	253-057-0	0.01
	2,3-dibromo-1-propanol (2,3-DBPA)	96-13-9	202-480-9	0.01



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 25 of 47

Code	Test Item	CAS No.	EC No.	Report Limit (%)
214	2-(4-tert-butylbenzyl) propionaldehyde and its individual stereoisomers	-	-	0.01
215	4,4'-(1-methylpropylidene) bisphenol (bisphenol B)	77-40-7	201-025-1	0.01
216	Glutaral	111-30-8	203-856-5	0.01
217	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	-	-	0.01
218	Orthoboric acid, sodium salt**	13840-56-7	237-560-2	0.01
219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual (PDDP)	-	-	0.01

The twenty six: Four Substances of Very High Concern (Released in Jan. 2022)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	-	-	0.01
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (DBMC)	119-47-1	204-327-1	0.01
222	S-(tricyclo[5.2.1.0 ^{2,6}]deca-3-en-8(or 9)-yl) O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate	255881-94-8	401-850-9	0.01



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 26 of 47

Code	Test Item	CAS No.	EC No.	Report Limit (%)
223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	0.01

The twenty seven: One Substances of Very High Concern (Released in June, 2022)

Code	Test Item	CAS No.	EC No.	Report Limit (%)
224	N-(hydroxymethyl)acrylamide	924-42-5	213-103-2	0.01

Note:

1. mg/kg =ppm= 10^{-6}
2. %=w/w
3. N.D. :< Report Limit
4. * The detected DHNUP are consisted of six phthalates which CAS number are 85507-79-5, 68515-44-6, 68515-45-7, 111381-89-6, 111381-90-9 and 111381-91-0. according to the Annex 15 of REACH.
5. ** According to the 5.2.1 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011, the selected test methods only show the existence of certain elements rather than the existence of substances, using additional measurements to screen for the existence and identification of substances in a sample when necessary.
6. Report Results: based on measurements in most cases will identify the chemical constituents in the sample but not necessarily "the substance" which were originally used to produce the article, professional consults, products information, testing processes, features of materials, characteristics of the SVHC and chemical analysis etc to obtain the assessments results according to the 5.2 item of the second version of ECHA "Guidance on requirements for substances in articles", 2011.
7. Report Limit: Be obtained from the uncertainty, the 0.1 % threshold and the ECHA "Guidance on requirements for substances in articles".
8. #: According to the applicant's request, the admixture of specimen A/B are tested as a whole. The testing results of specimen A/B may be different from that of any sole material in specimen A/B.



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 27 of 47

Appendix:

1. Any supplier of an article containing a substance that is included in the Candidate List in a concentration above 0.1 % weight by weight (w/w) has the duty to communicate information in accordance with Article 33 of European Union regulation concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH).
 - 1) Any supplier shall provide the recipient of the article with sufficient information to allow safe use of the article including, as a minimum, the name of that substance.
 - 2) On request by a consumer any supplier shall provide the consumer with sufficient information to allow safe use of the article including, as a minimum, the name of that substance within 45 days of receipt of the request, free of charge.
2. The supplier of a substance that is included in the Candidate List on their own shall provide the recipient of the substance with a safety data sheet for free compiled in accordance with Article 31 and Annex II of REACH.
3. The supplier of a mixture that containing a substance that is included in the Candidate List shall exchange information in accordance with Article 31, Article 32, and Annex II of REACH.
 - 1) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation meets the criteria for classification as dangerous in accordance with Directives 1999/45/EC.
 - 2) Any supplier shall provide the recipient of the mixture with a safety data sheet for free where a preparation does not meet the criteria for classification as dangerous in accordance with Directive 1999/45/EC, but contains any substance that is included in the Candidate List in an individual concentration of ≥ 0.1 % by weight for non-gaseous mixtures or ≥ 0.2 % by volume for gaseous mixtures.



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 28 of 47

Photograph of Sample



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 29 of 47

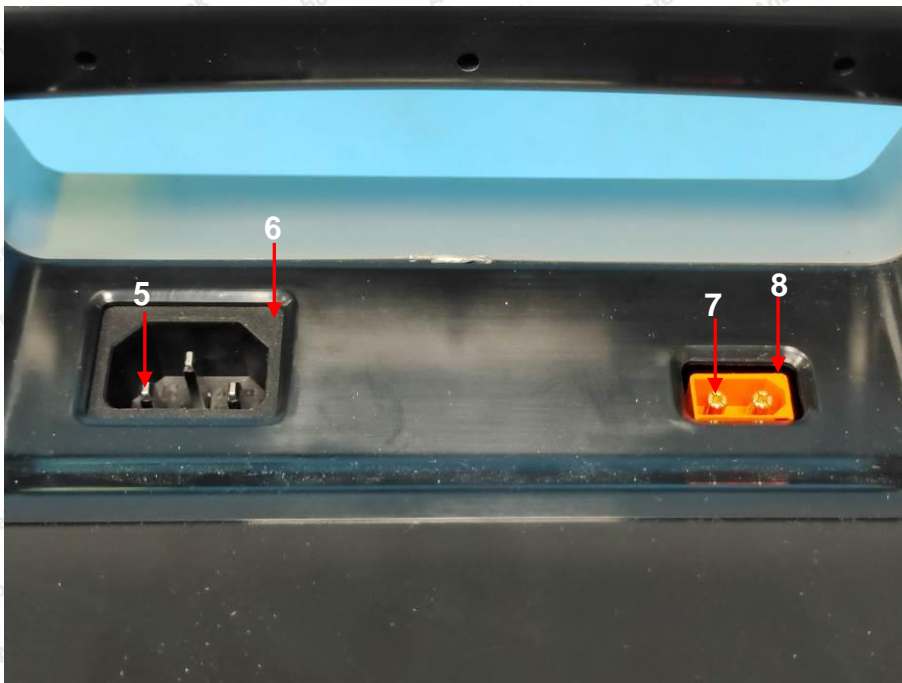


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 30 of 47

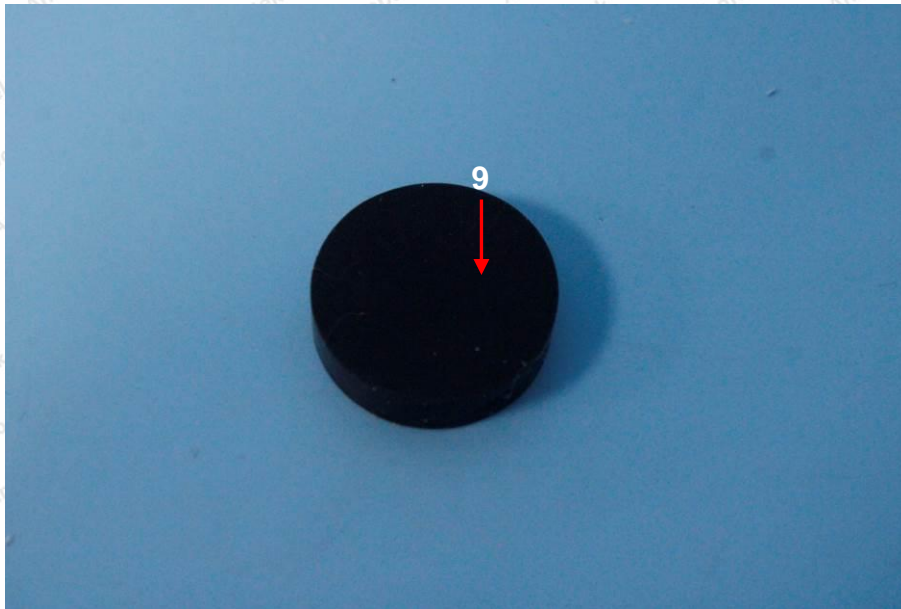


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 31 of 47

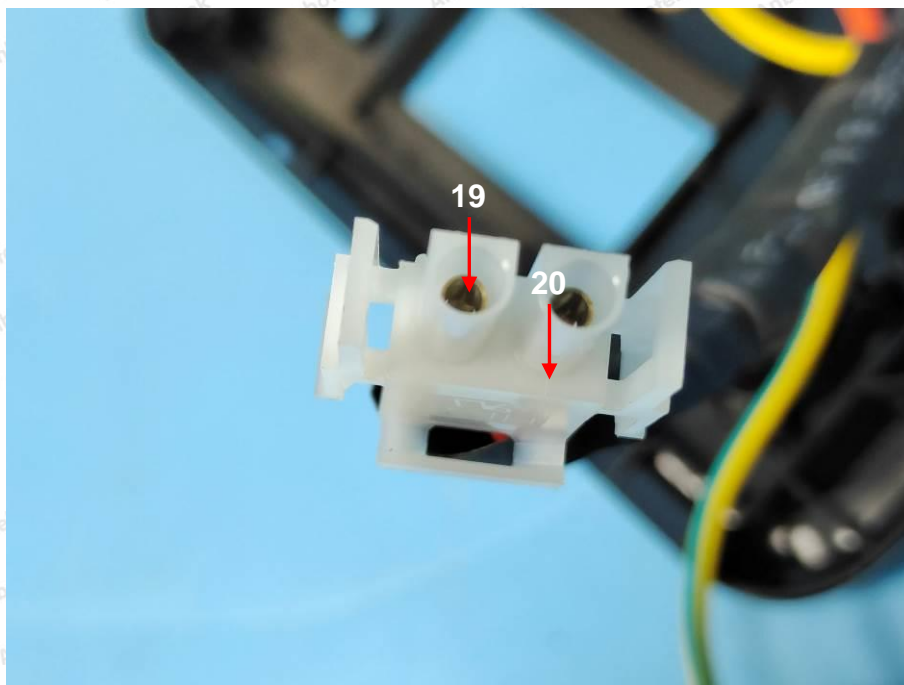
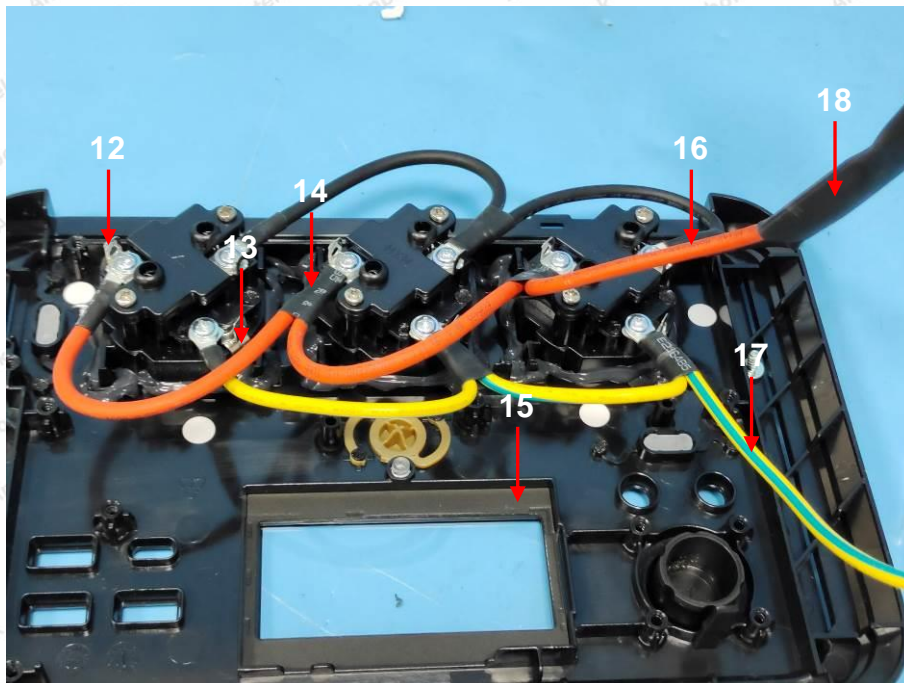


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 32 of 47

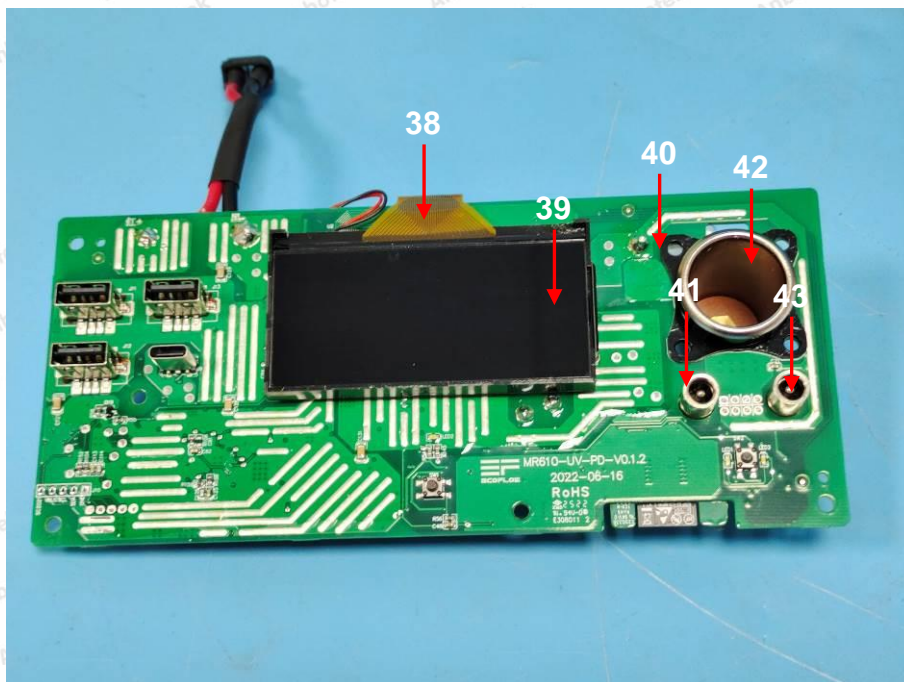
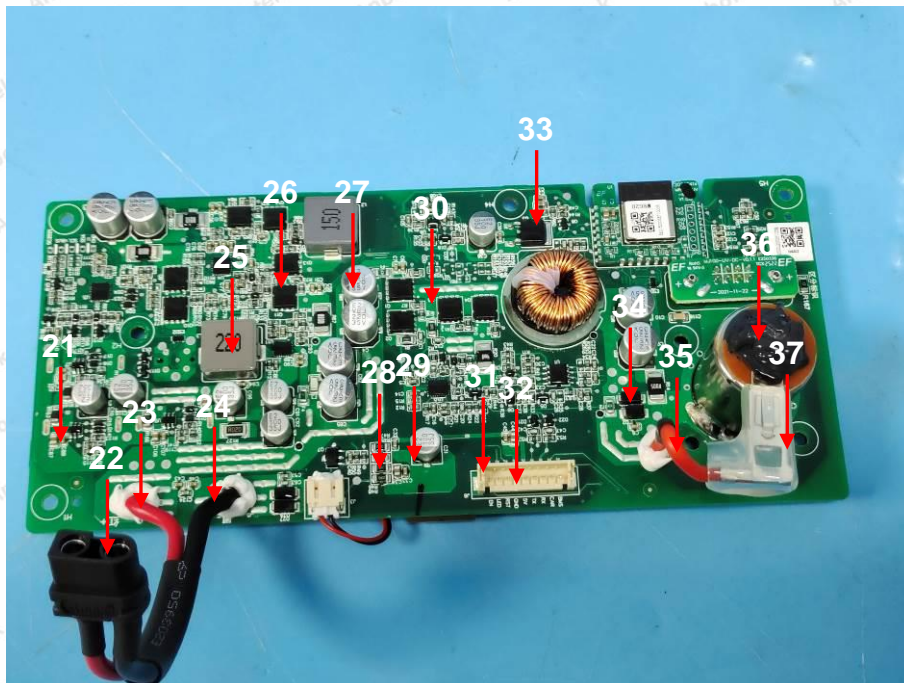


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 33 of 47

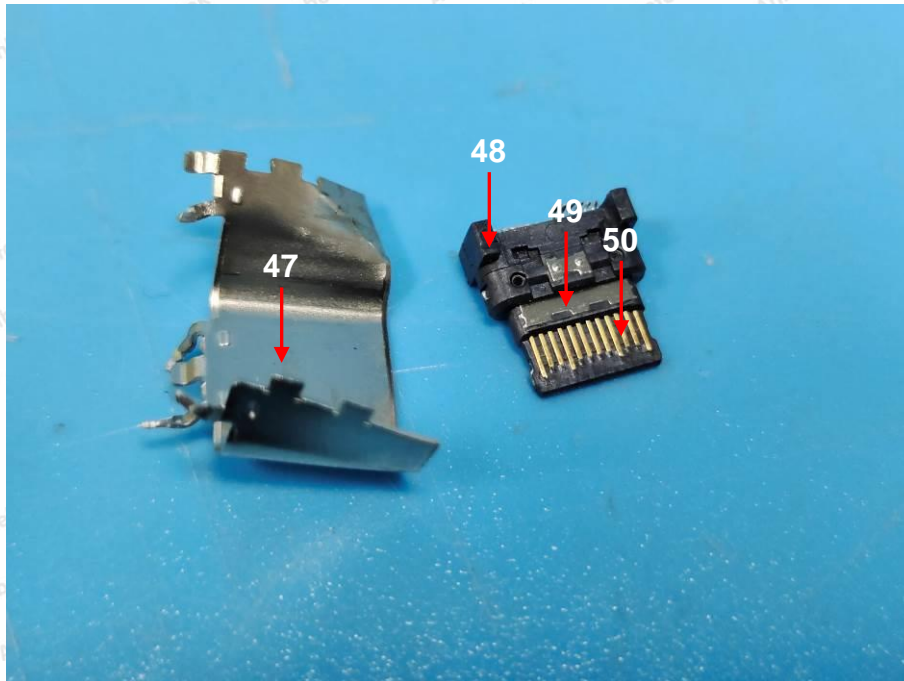
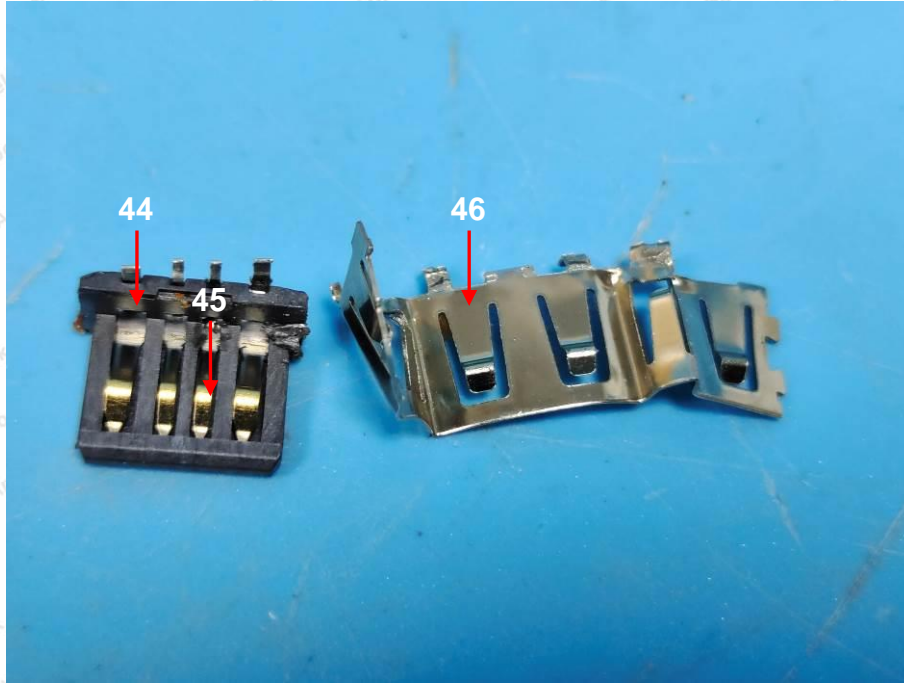


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 34 of 47

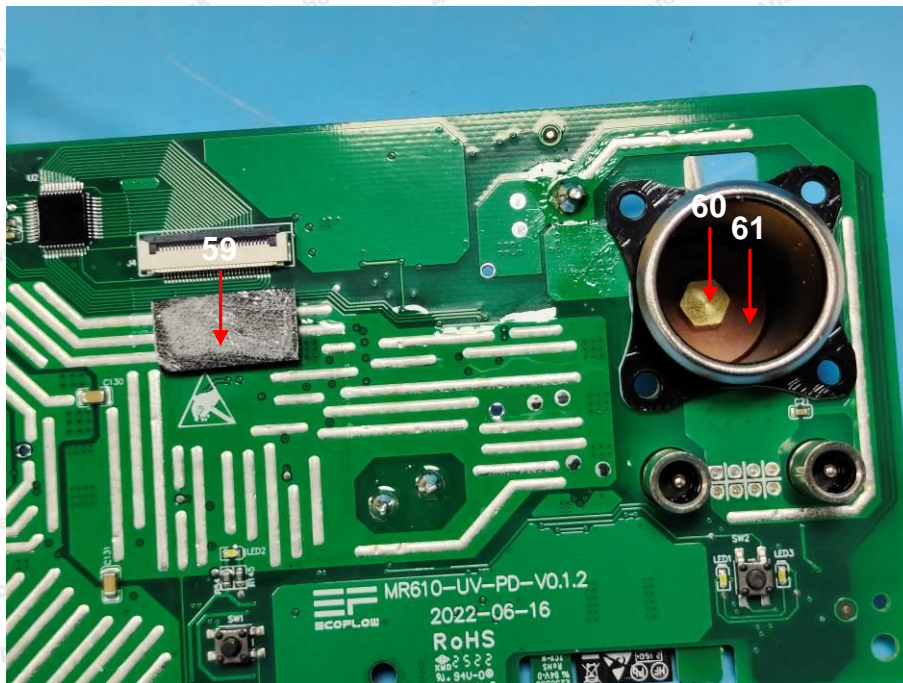
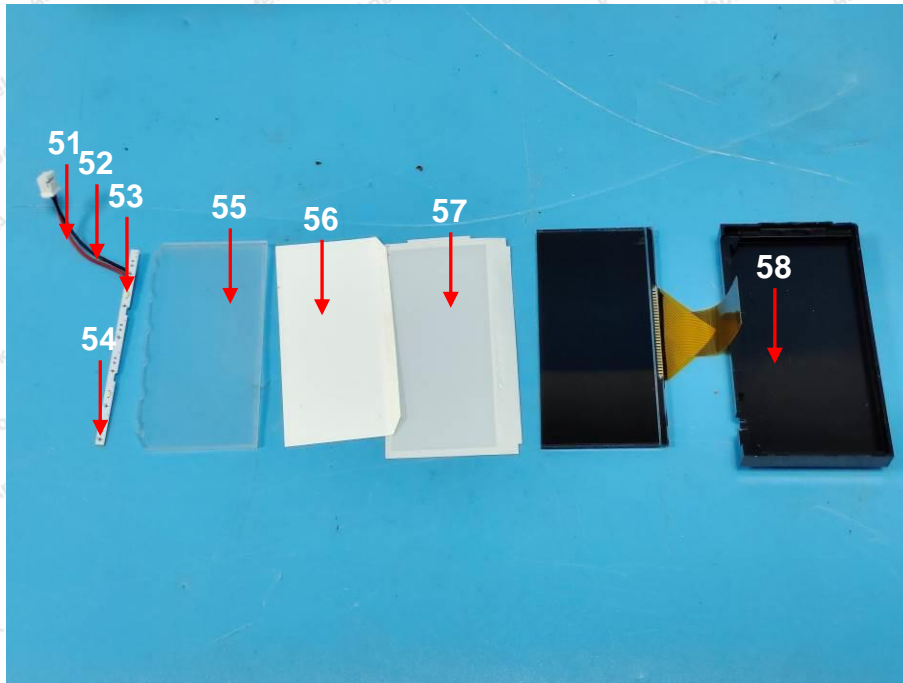


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 35 of 47

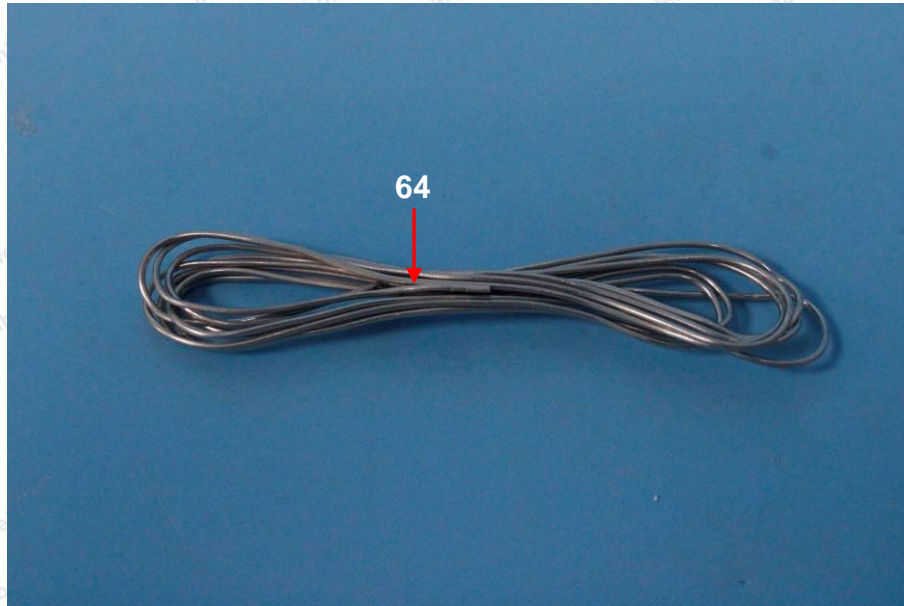
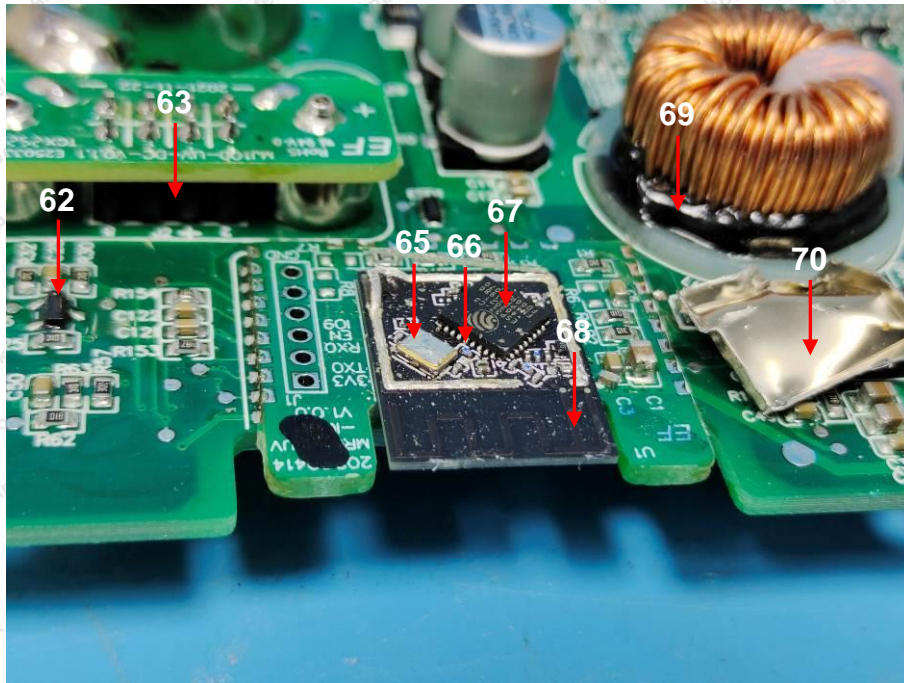


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 36 of 47

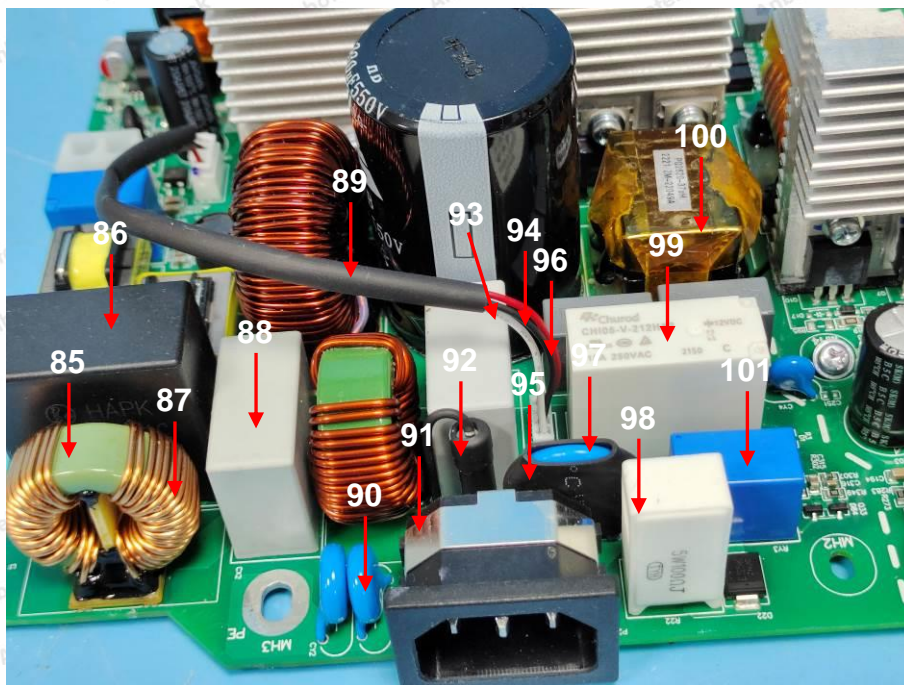
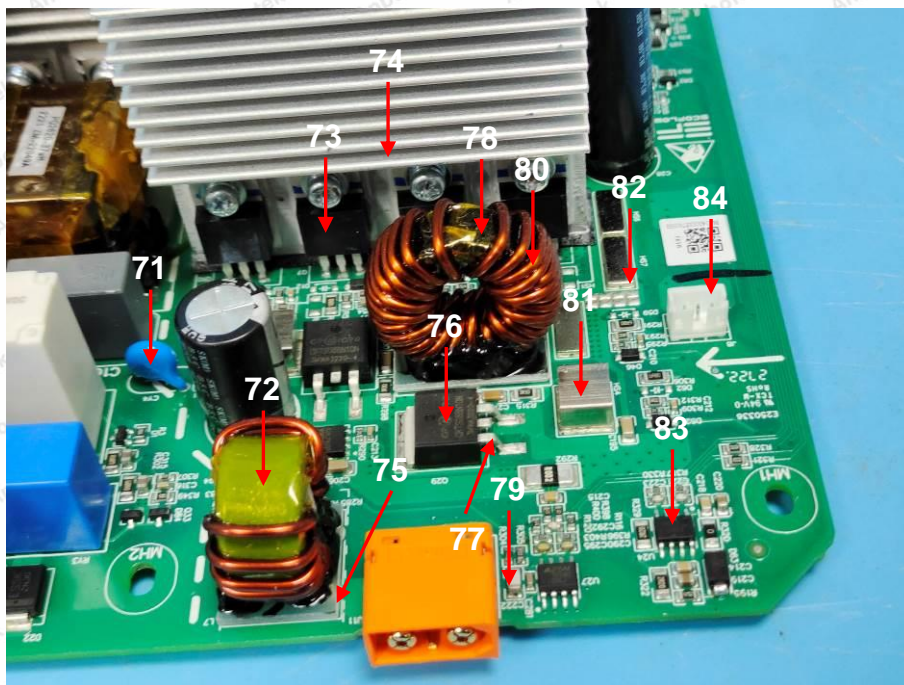


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 37 of 47

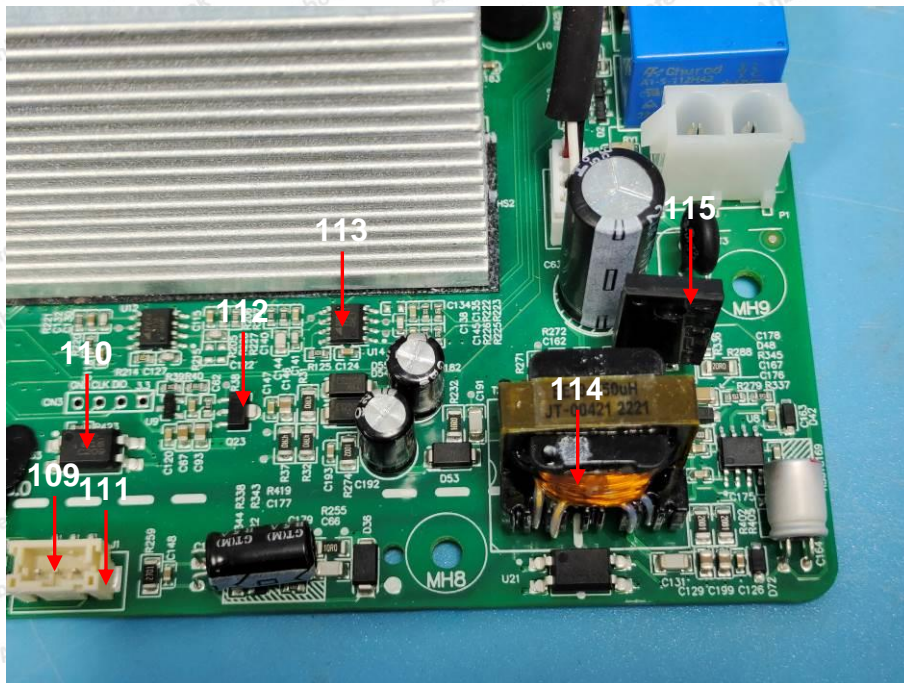
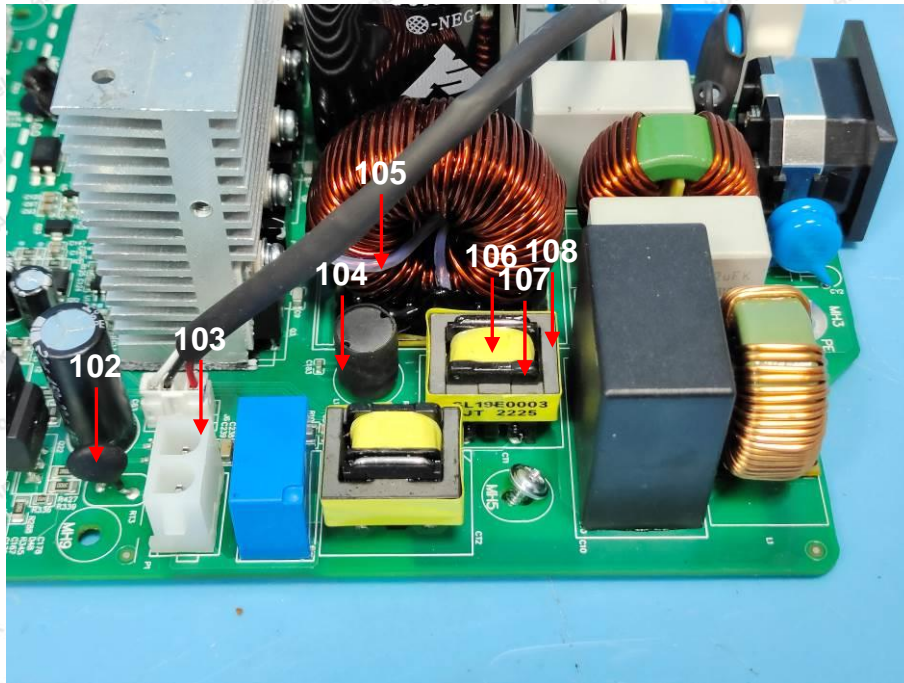


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 38 of 47

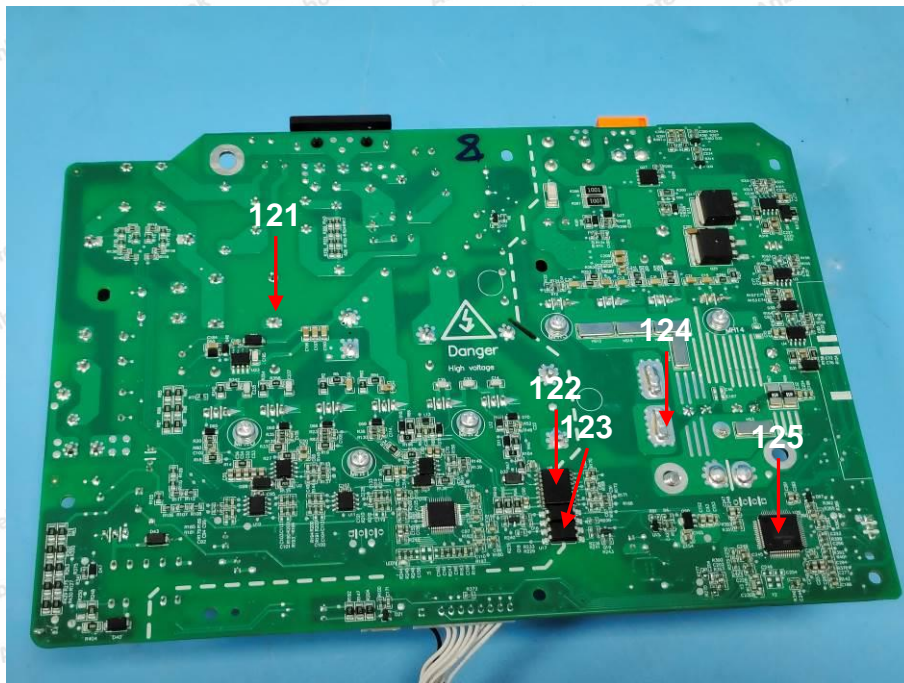
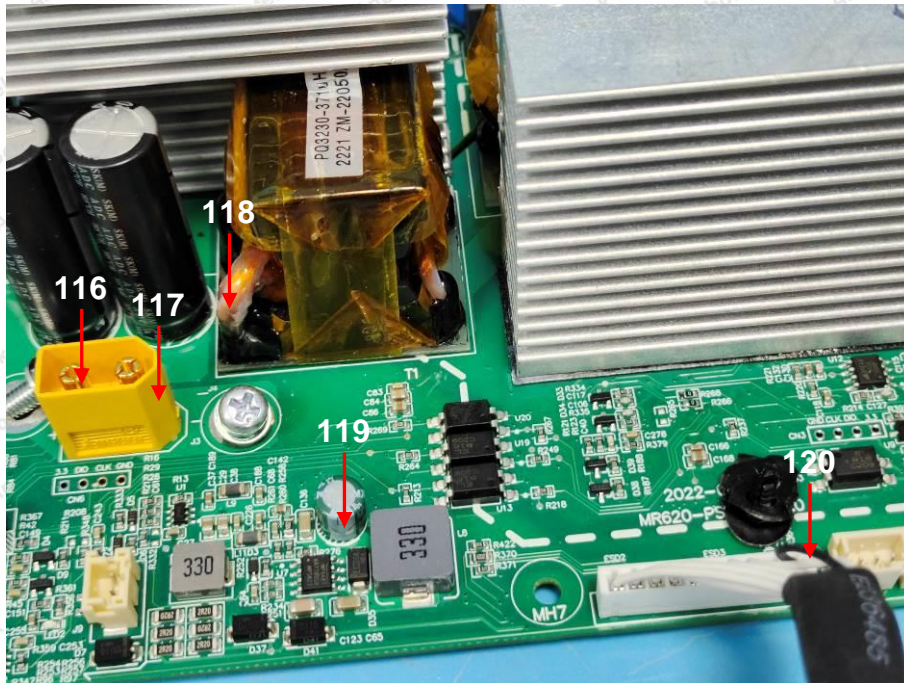


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 39 of 47

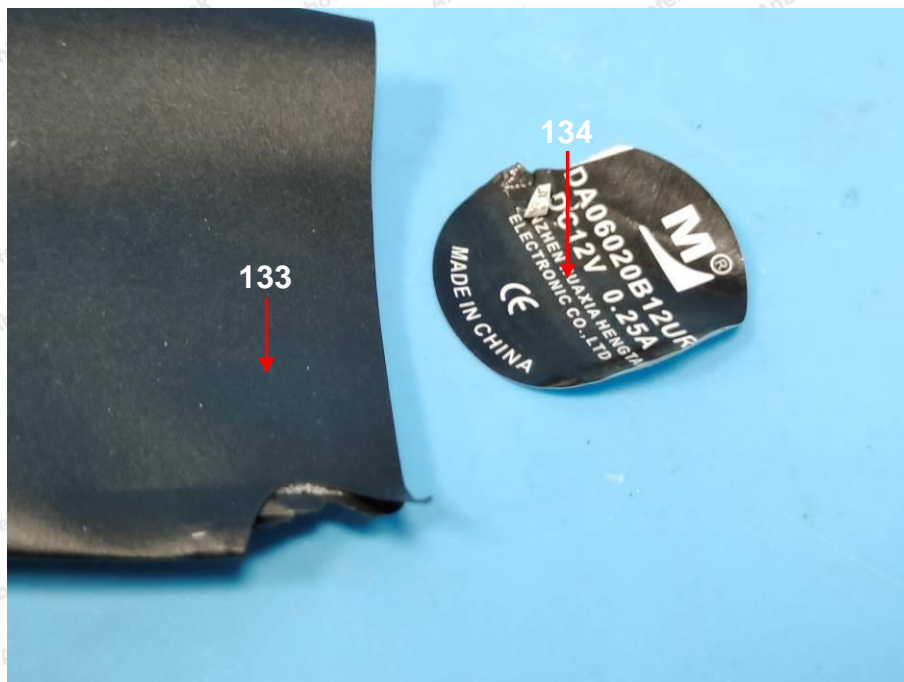
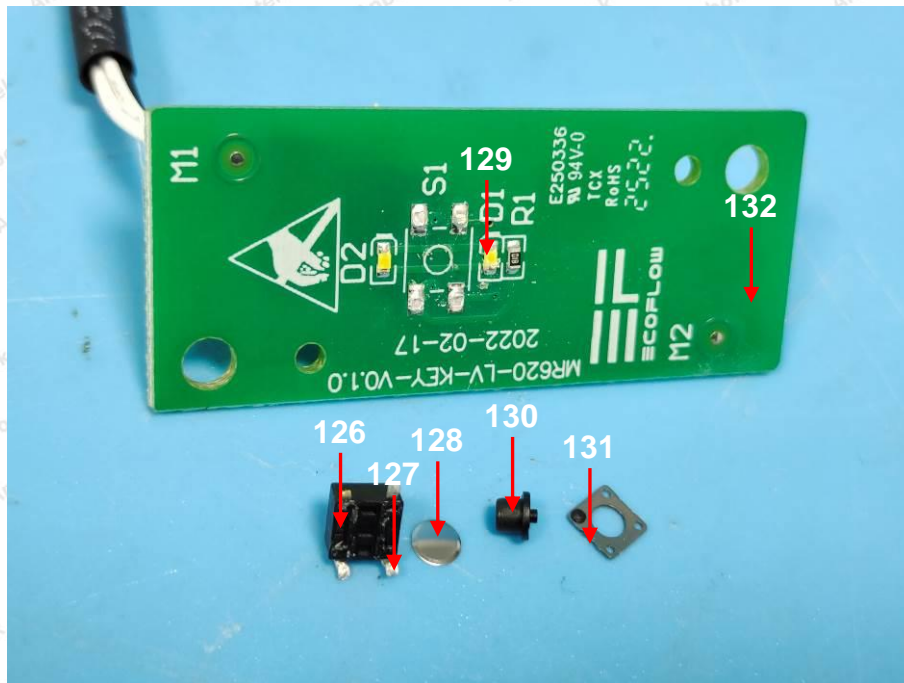


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 40 of 47



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 41 of 47

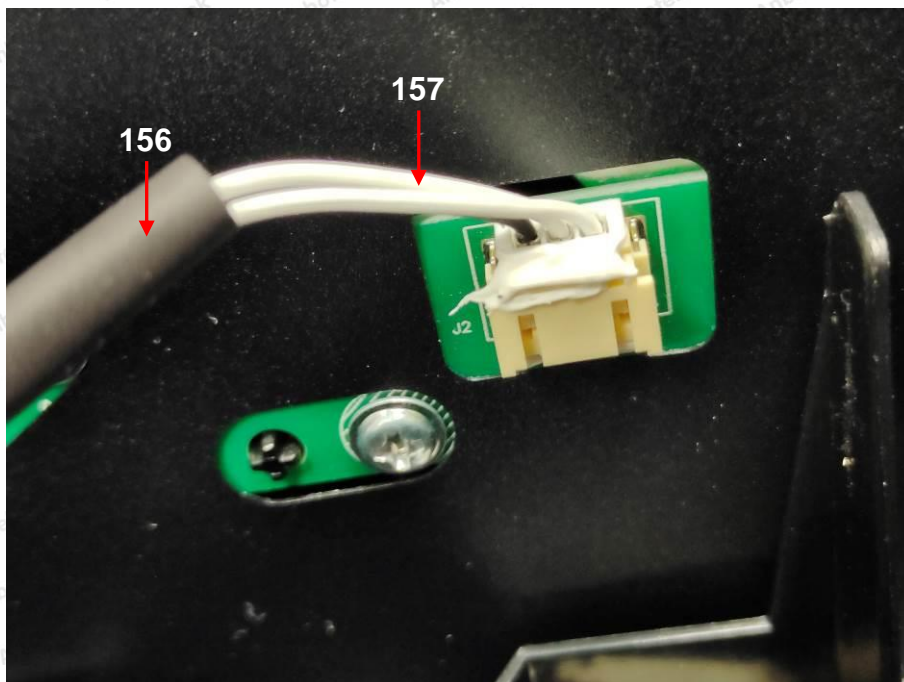
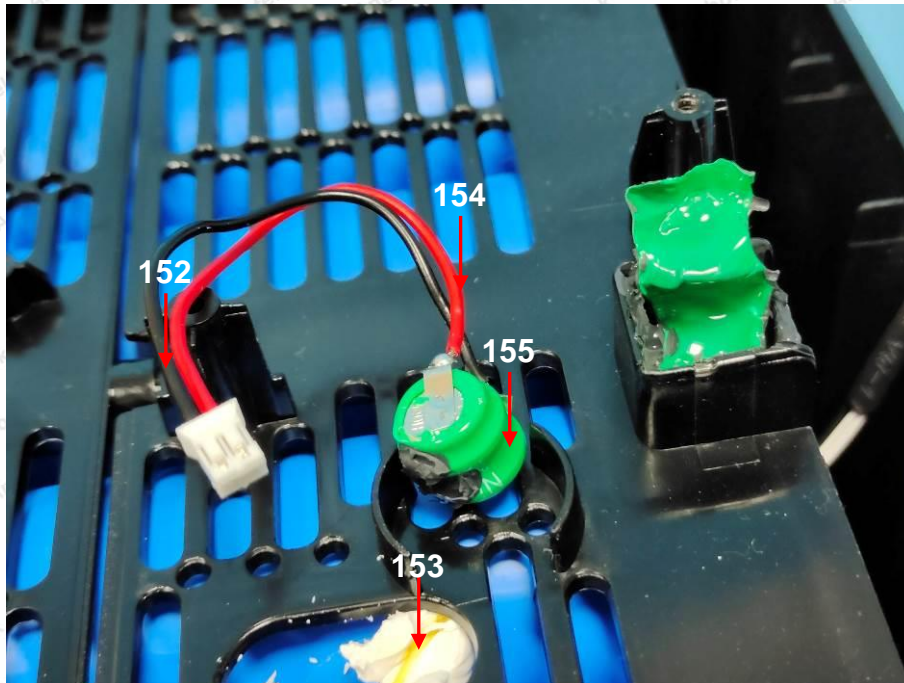


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 42 of 47

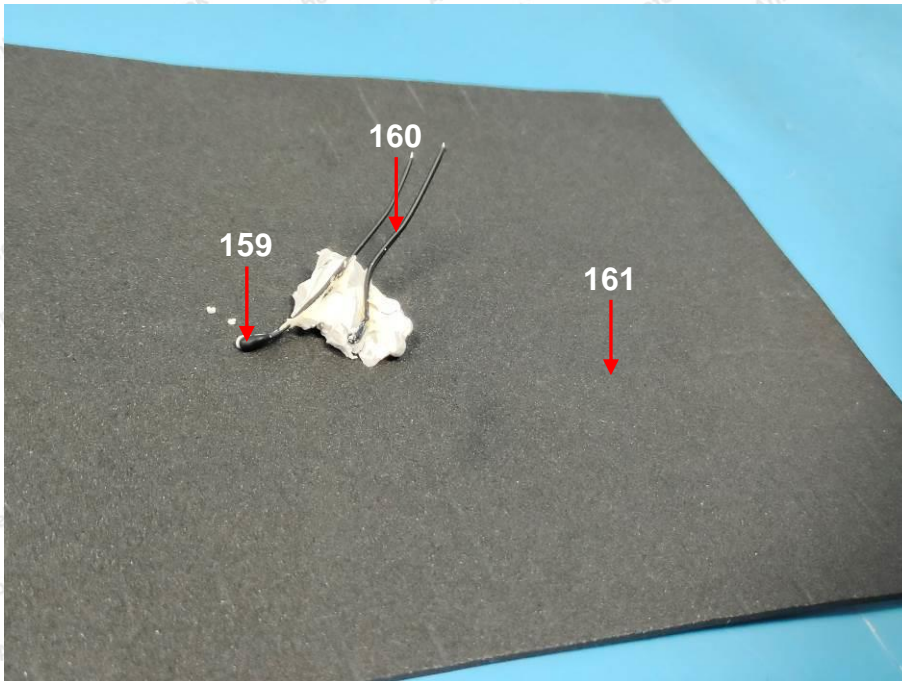
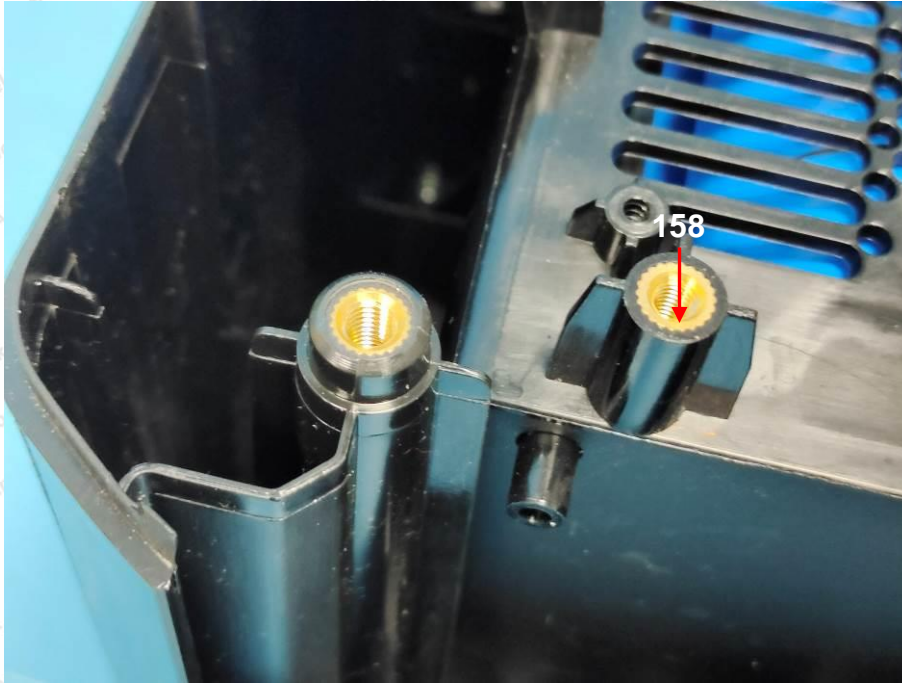


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 43 of 47

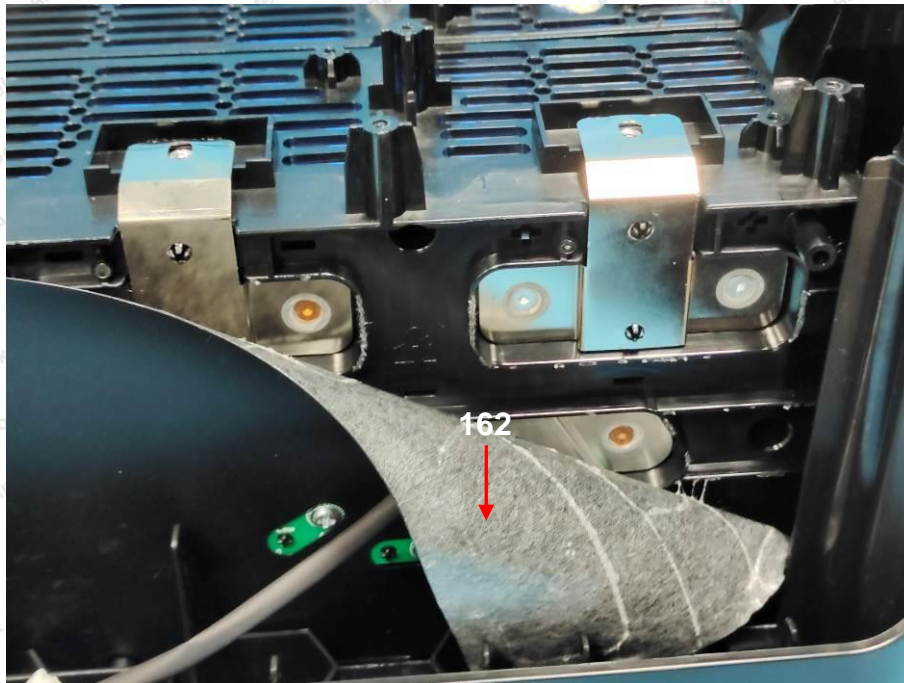


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 44 of 47

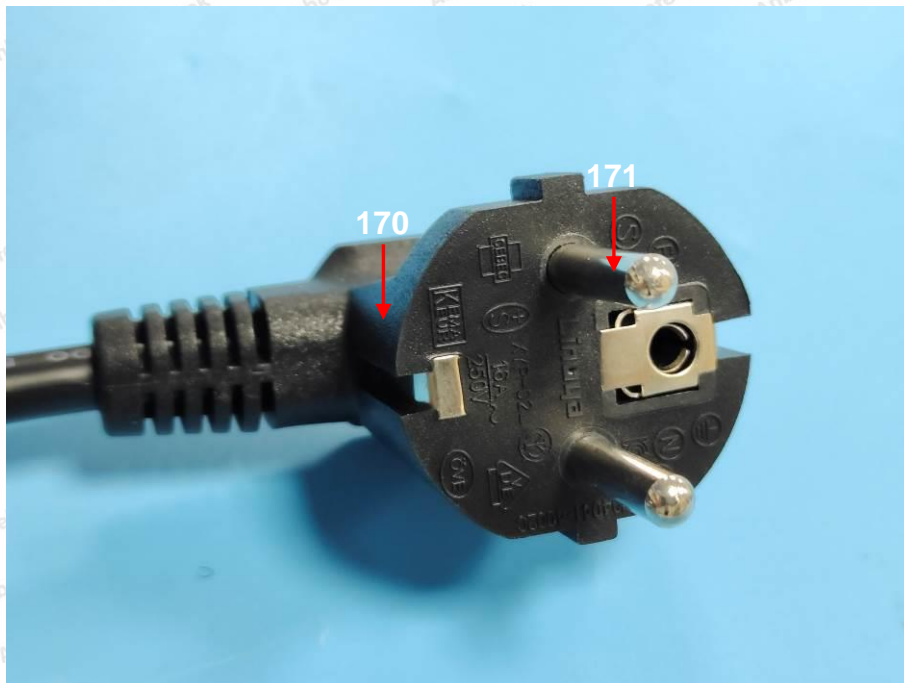
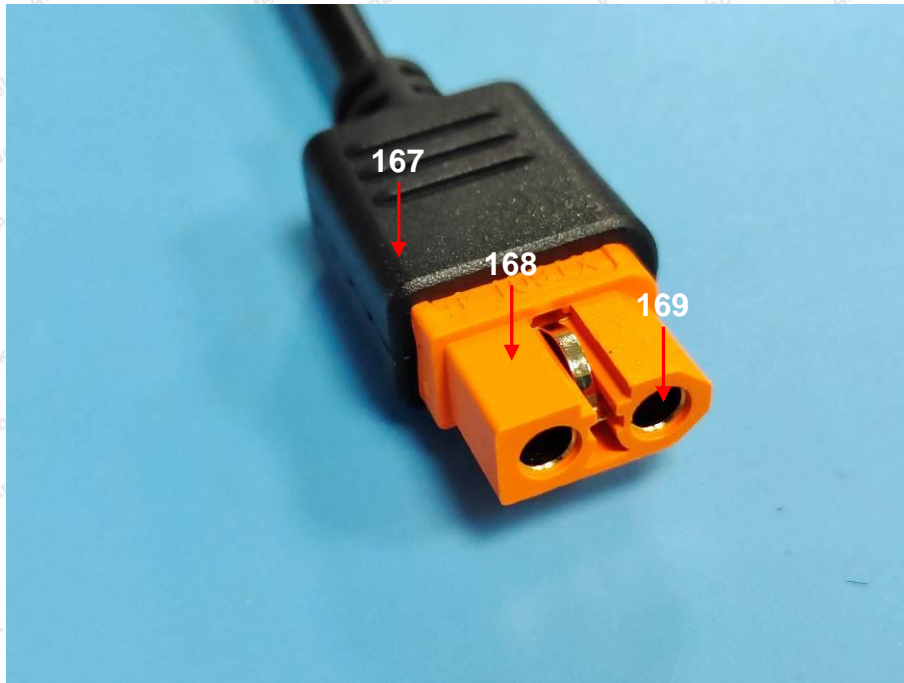


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 45 of 47

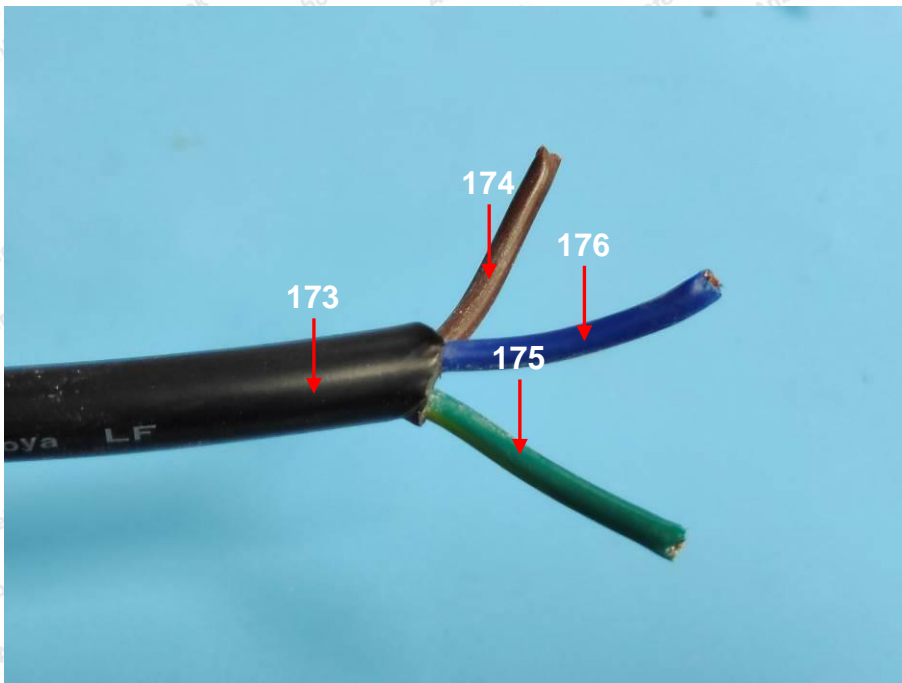


Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 46 of 47



Test Report

Report No.: 18300RC20382701

Date: Sept. 23, 2022

Page 47 of 47



***** End of Report *****

The test report is effective only with both signature and specialized stamp. The result(s) shown in this report refer only to the sample(s) tested. Without written approval of Anbotech, this report can't be reproduced except in full.

