



Test Report No.: 68.413.24.0217.01

Rev.: 01

Dated: 2024-11-12

Applicant: SHENZHEN GREPOW BATTERY CO., LTD.

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Sample Description: Jump Starter

Model No.: J402 PRO

Sample Received Date: 2024-10-16, Shenzhen

Test Period: From 2024-10-16 to 2024-11-05, Shenzhen

Purpose of examination: Verification of RoHS (Restriction of Hazardous Substances) directive 2011/65/EU and its amendment (EU) 2015/863 on submitted samples

Test Results: Refer to following page(s)

Remark: The result relates only to the items tested.

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
TÜV SÜD Group

Prepared by:

Reviewed by:



Elsa Deng
Project Handler

Scarlett Liang
Designated Reviewer

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Disclaimer Measurement Uncertainty: Unless otherwise agreed upon, pass or fail verdicts are given based on the measured values without consideration of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as pass or fail.

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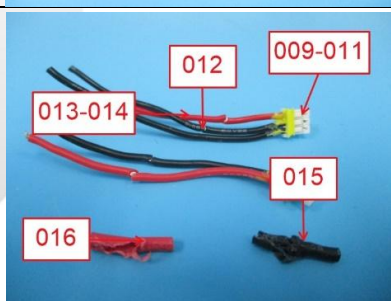


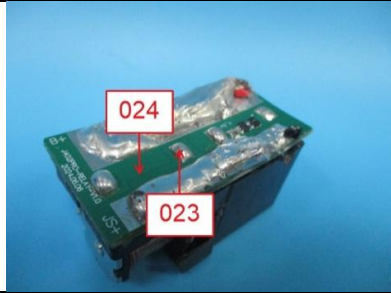
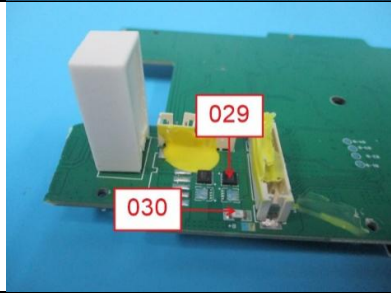
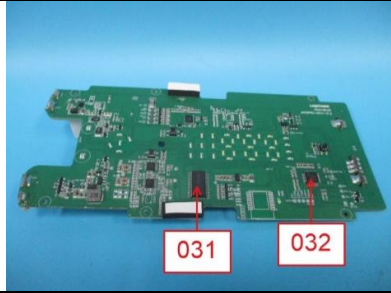
SUMMARY OF TEST RESULTS

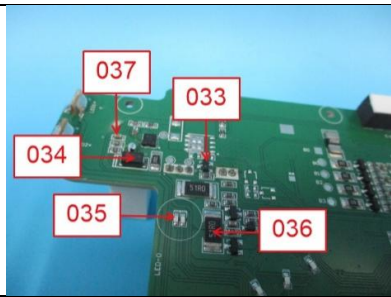
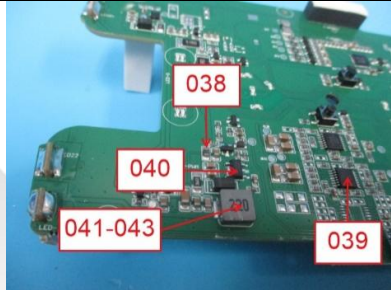
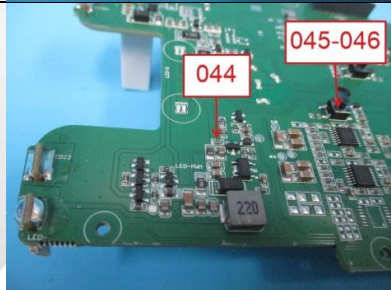
No.	Test Requested	Conclusion	Remarks
1.	Heavy Metal (Pb, Cd, Hg and Cr VI) Content	PASS	
2.	Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) Content	PASS	
3.	Phthalates (DEHP, BBP, DBP and DIBP) Content	PASS	

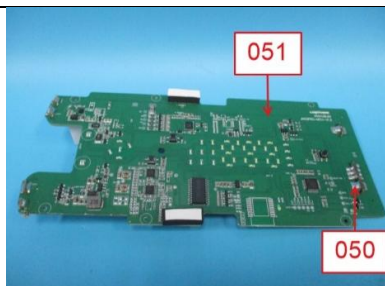
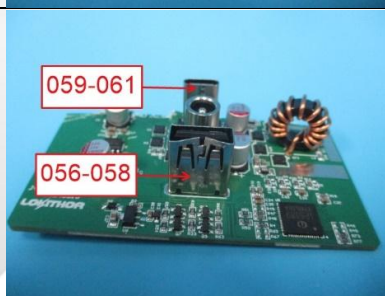
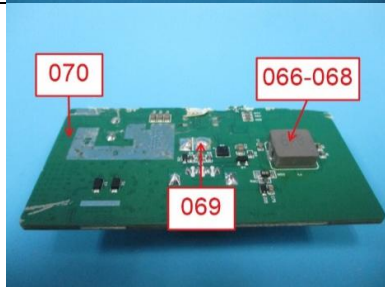


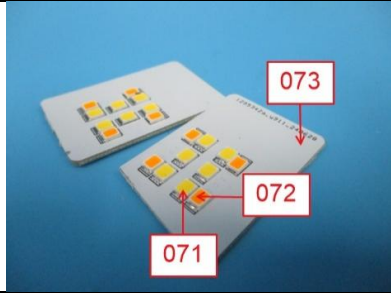
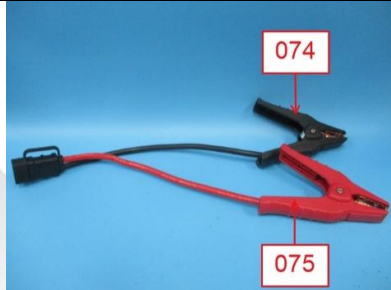
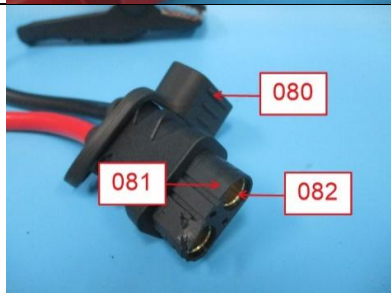
1. TESTED SUBJECT DESCRIPTION

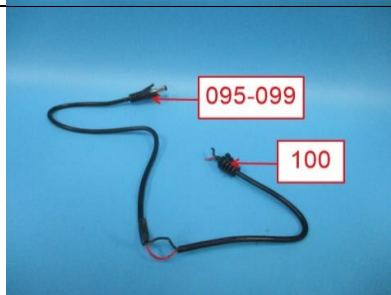
Test No.	Sample No.	Tested Material Description	Photo
T1	001	Grey plastic case	
T2	002	Black/white/red coated transparent plastic with adhesive	
T3	003	Black/red printed white soft plastic sticker	
T4	004	Multi-color coated transparent/white plastic with adhesive	
T5	005	Black soft plastic housing	
T6	006	Transparent plastic plate	
T7	008	Black foam with adhesive	
T8	009	White plastic case (Connector)	
T9	010	Silvery metal pin (Connector)	
T10	011	Beige glue	
T11	012	Black soft plastic wire jacket	
T12	013	Red soft plastic wire jacket	
T13	014	Silvery metal wire	
T14	015	White printed black soft plastic sleeve	
T15	016	Black printed red soft plastic sleeve	
T16	017	Black plastic case (Port)	
T17	018	Golden metal pin (Port)	
T18	019	Silvery metal solder (Port)	
T19	020	Grey printed black plastic shell (Relay)	
T20	021	Coppery/Silvery metal contact point (Relay)	
T21	022	Coppery metal plate (Relay)	

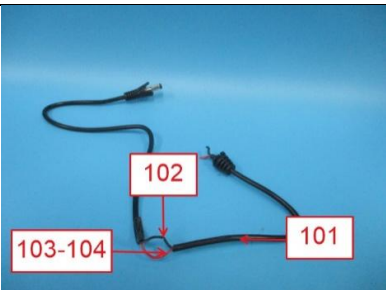
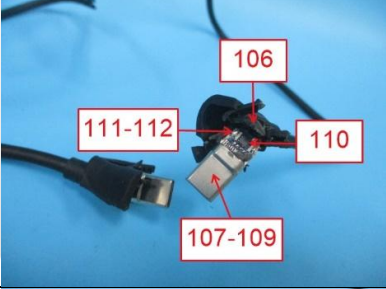
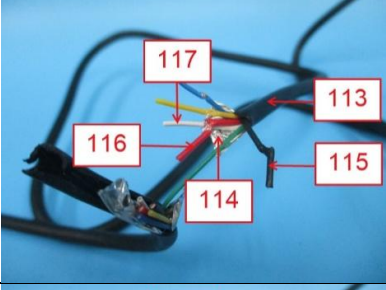
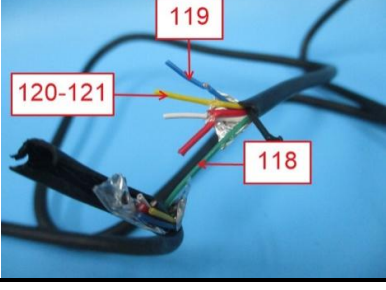
Test No.	Sample No.	Tested Material Description	Photo
T22	023	Silvery metal solder	
T23	024	Green PCB	
T24	025	Beige plastic case (Port)	
T25	026	Silvery metal pin (Port)	
T26	027	Black printed white ceramic	
T27	028	Silvery metal pin	
T28	029	Black body with pin (EC)	
T29	030	Green printed white body (SMD resistor)	
T30	031	Black body with pin (EC)	
T31	032	Black body with pin (EC)	

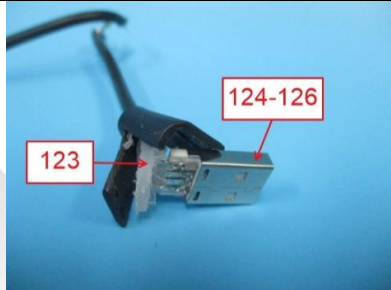
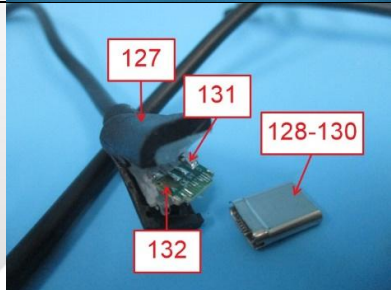
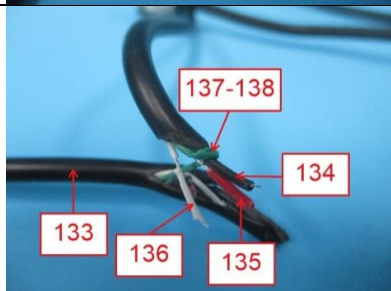
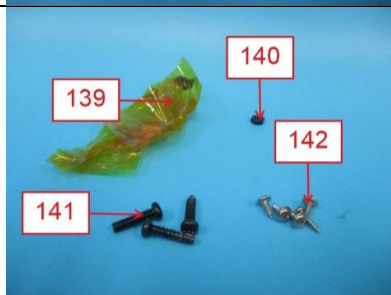
Test No.	Sample No.	Tested Material Description	Photo
T32	033	Black body with pin (EC)	
T33	034	Black body with pin (Diode)	
T34	035	Transparent white LED body	
T35	036	White printed black body (SMD resistor)	
T36	037	Brown/silvery body (SMD capacitor)	
T37	038	Black/silvery body (SMD capacitor)	
T38	039	Black body with pin (EC)	
T40	041	Black printed grey magnet (Inductor)	
T41	042	Copper metal coil (Inductor)	
T42	043	Silvery metal holder (Inductor)	
T43	044	White printed green body (SMD resistor)	
T44	045	Black plastic (button)	
T45	046	Silvery metal (button)	
T46	047	Black body with pin (EC)	
T47	048	Black body with pin (EC)	
T48	049	Yellow LED body	

Test No.	Sample No.	Tested Material Description	Photo
T49	050	Silvery metal solder	
T50	051	Green PCB	
T51	052	Red printed silvery metal body (capacitor)	
T52	053	Black plastic holder (capacitor)	
T53	054	Black coated black magnet (Inductor)	
T54	055	Copper metal coil (Inductor)	
T55	056	Silvery metal case (USB interface)	
T56	057	Black plastic inner (USB interface)	
T57	058	Silvery metal pin (USB interface)	
T58	059	Silvery metal case (C interface)	
T59	060	Black plastic inner (C interface)	
T60	061	Silvery metal pin (C interface)	
T61	062	Silvery metal case (Port)	
T62	063	Silvery metal pin (Port)	
T63	064	Black plastic holder (Port)	
T64	065	Black body with pin (EC)	
T65	066	Black printed grey magnet (Inductor)	
T66	067	Copper metal coil (Inductor)	
T67	068	Silvery metal holder (Inductor)	
T68	069	Silvery metal solder	
T69	070	Green PCB	

Test No.	Sample No.	Tested Material Description	Photo
T70	071	Yellow/white LED body	
T71	072	Orange/white LED body	
T72	073	Grey PCB	
T73	074	Black plastic case (Clamp)	
T74	075	Red plastic case (Clamp)	
T75	076	Coppery metal plate (Clamp)	
T76	077	Silvery metal shaft (Clamp)	
T77	078	Silvery metal spring (Clamp)	
T78	079	Silvery metal solder (Clamp)	
T79	080	Black soft plastic plug	
T80	081	Black plastic case (Plug)	
T81	082	Golden metal pin (Plug)	

Test No.	Sample No.	Tested Material Description	Photo
T82	083	White printed black soft plastic wire jacket	
T83	084	White printed red soft plastic wire jacket	
T84	085	Silvery metal wire	
T85	086	Black plastic case	
T86	087	Silvery metal plate	
T87	088	Silvery metal solder	
T88	089	Silvery metal ring	
T89	090	Silvery metal thread	
T90	091	Silvery metal cap (Fuse)	
T91	092	Transparent glass (Fuse)	
T92	093	Silvery metal wire (Fuse)	
T93	094	Copper metal spring	
T94	095	Black soft plastic housing (Plug)	
T95	096	Silvery metal case (Plug)	
T96	097	Silvery metal solder (Plug)	
T97	098	Black plastic holder (Plug)	
T98	099	Silvery metal pin (Plug)	
T99	100	Black soft plastic holder	

Test No.	Sample No.	Tested Material Description	Photo
T100	101	White printed black soft plastic cable jacket	
T101	102	Black soft plastic wire jacket	
T102	103	Red soft plastic wire jacket	
T103	104	Silvery metal wire	
T104	105	Black soft plastic housing (C interface)	
T105	106	Black plastic holder (C interface)	
T106	107	Silvery metal case (C interface)	
T107	108	Black plastic inner (C interface)	
T108	109	Golden/silvery metal pin (C interface)	
T109	110	Black body with pin (C interface)	
T110	111	Silvery metal solder (C interface)	
T111	112	Blue PCB (C interface)	
T112	113	Black soft plastic cable jacket	
T113	114	Silvery plastic film	
T114	115	Black soft plastic wire jacket	
T115	116	Red soft plastic wire jacket	
T116	117	White soft plastic wire jacket	
T117	118	Green soft plastic wire jacket	
T118	119	Blue soft plastic wire jacket	
T119	120	Yellow soft plastic wire jacket	
T120	121	Coppery metal wire	

Test No.	Sample No.	Tested Material Description	Photo
T121	122	Black soft plastic housing (USB interface)	
T122	123	Translucent plastic holder (USB interface)	
T123	124	Silvery metal case (USB interface)	
T124	125	White plastic inner (USB interface)	
T125	126	Silvery metal pin (USB interface)	
T126	127	Black soft plastic housing (C interface)	
T127	128	Silvery metal case (C interface)	
T128	129	Black plastic inner (C interface)	
T129	130	Golden/silvery metal pin (C interface)	
T130	131	Silvery metal solder (C interface)	
T131	132	Green PCB (C interface)	
T132	133	White printed black soft plastic cable jacket	
T133	134	Black soft plastic wire jacket	
T134	135	Red soft plastic wire jacket	
T135	136	White soft plastic wire jacket	
T136	137	Green soft plastic wire jacket	
T137	138	Silvery metal wire	
T138	139	Transparent brown plastic adhesive tape	
T139	140	Black coated silvery metal nut	
T140	141	Black coated silvery metal screw	
T141	142	Silvery metal screw	

Test No.	Sample No.	Tested Material Description	Photo
T142	143	Black fabric sheet	
T143	144	Black fabric rope	
T144	145	Black fabric thread	
T145	146	Transparent plastic with adhesive	
T146	147	Silvery metal screw	



2. TEST RESULT(S)

2.1 SCREENING TEST

Test method: With reference to EN 62321-1:2013, EN IEC 62321-2:2021, EN 62321-3-1:2014 and EN 62321-8:2017. For Heavy Metals and Flame Retardants, analyzed by Energy Dispersive X-ray Fluorescence Spectrometer (XRF); for phthalates, analyzed by Gas Chromatography and Mass Spectrometer (GC-MS).

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
001	BL	BL	BL	BL	BL	BL	BL	BL	BL
002	BL	BL	BL	BL	BL	BL	BL	BL	BL
003	BL	BL	BL	BL	BL	BL	BL	BL	BL
004	BL	BL	BL	BL	BL	BL	BL	BL	BL
005	BL	BL	BL	BL	BL	BL	BL	BL	BL
006	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
008	BL	BL	BL	BL	BL	BL	BL	BL	BL
009	BL	BL	BL	BL	BL	BL	BL	BL	BL
010	BL	BL	BL	BL	NA	NA	NA	NA	NA
011	BL	BL	BL	BL	BL	BL	BL	BL	BL
012	BL	BL	BL	BL	BL	BL	BL	BL	BL
013	BL	BL	BL	BL	BL	BL	BL	BL	BL
014	Inc. ^(a)	BL	BL	BL	NA	NA	NA	NA	NA
015	BL	BL	BL	BL	BL	BL	BL	BL	BL
016	BL	BL	BL	BL	BL	BL	BL	BL	BL
017	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
018	BL	BL	BL	OL ^(a)	NA	NA	NA	NA	NA
019	BL	BL	BL	BL	NA	NA	NA	NA	NA
020	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
021	BL	BL	BL	BL	NA	NA	NA	NA	NA
022	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
023	BL	BL	BL	BL	NA	NA	NA	NA	NA
024	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
025	Inc. ^(a)	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
026	OL ^(a)	BL	BL	BL	NA	NA	NA	NA	NA
027	BL	BL	BL	BL	NA	NA	NA	NA	NA
028	BL	BL	BL	BL	NA	NA	NA	NA	NA



Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
029	BL	BL	BL	BL	BL	BL	BL	BL	BL
030	BL	Inc. ^(a)	BL	OL ^(a)	Inc. ^(a)	BL	BL	BL	BL
031	BL	BL	BL	BL	BL	BL	BL	BL	BL
032	BL	BL	BL	BL	BL	BL	BL	BL	BL
033	BL	BL	BL	BL	BL	BL	BL	BL	BL
034	BL	BL	BL	BL	BL	BL	BL	BL	BL
035	BL	BL	BL	BL	BL	BL	BL	BL	BL
036	BL	Inc. ^(a)	BL	Inc. ^(a)	BL	BL	BL	BL	BL
037	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL	BL
038	BL	BL	BL	BL	BL	BL	BL	BL	BL
039	BL	BL	BL	BL	BL	BL	BL	BL	BL
040	BL	BL	BL	BL	BL	BL	BL	BL	BL
041	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
042	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
043	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
044	BL	Inc. ^(a)	BL	BL	BL	BL	BL	BL	BL
045	BL	BL	BL	BL	BL	BL	BL	BL	BL
046	BL	BL	BL	BL	NA	NA	NA	NA	NA
047	BL	BL	BL	BL	BL	BL	BL	BL	BL
048	BL	BL	BL	BL	BL	BL	BL	BL	BL
049	BL	BL	BL	BL	BL	BL	BL	BL	BL
050	BL	BL	BL	BL	NA	NA	NA	NA	NA
051	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
052	BL	BL	BL	BL	NA	NA	NA	NA	NA
053	BL	BL	BL	BL	BL	BL	BL	BL	BL
054	BL	BL	BL	BL	NA	NA	NA	NA	NA
055	BL	BL	BL	BL	NA	NA	NA	NA	NA
056	BL	BL	BL	BL	NA	NA	NA	NA	NA
057	BL	BL	BL	BL	BL	BL	BL	BL	BL
058	BL	BL	BL	BL	NA	NA	NA	NA	NA
059	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
060	BL	BL	BL	BL	BL	BL	BL	BL	BL



Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
061	BL	BL	BL	BL	NA	NA	NA	NA	NA
062	Inc. ^(a)	BL	BL	OL ^(a)	NA	NA	NA	NA	NA
063	BL	BL	BL	OL ^(a)	NA	NA	NA	NA	NA
064	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
065	BL	BL	BL	BL	BL	BL	BL	BL	BL
066	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
067	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
068	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
069	Inc. ^(a)	Inc. ^(a)	BL	Inc. ^(a)	NA	NA	NA	NA	NA
070	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
071	Inc. ^(a)	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
072	BL	BL	BL	BL	BL	BL	BL	BL	BL
073	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
074	BL	BL	BL	BL	BL	BL	BL	BL	BL
075	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
076	BL	BL	BL	BL	NA	NA	NA	NA	NA
077	BL	BL	BL	BL	NA	NA	NA	NA	NA
078	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
079	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
080	BL	BL	BL	BL	BL	BL	BL	BL	BL
081	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
082	BL	BL	BL	OL ^(a)	NA	NA	NA	NA	NA
083	BL	BL	BL	BL	BL	BL	BL	BL	BL
084	BL	BL	BL	BL	BL	BL	BL	BL	BL
085	BL	BL	BL	BL	NA	NA	NA	NA	NA
086	BL	BL	BL	BL	BL	BL	BL	BL	BL
087	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
088	BL	BL	BL	BL	NA	NA	NA	NA	NA
089	BL	BL	BL	BL	NA	NA	NA	NA	NA
090	BL	BL	BL	BL	NA	NA	NA	NA	NA
091	BL	BL	BL	BL	NA	NA	NA	NA	NA
092	BL	BL	BL	BL	NA	NA	NA	NA	NA



Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
093	BL	BL	BL	BL	NA	NA	NA	NA	NA
094	BL	BL	BL	BL	NA	NA	NA	NA	NA
095	BL	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL
096	BL	BL	BL	BL	NA	NA	NA	NA	NA
097	OL ^(a)	BL	BL	BL	NA	NA	NA	NA	NA
098	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
099	BL	BL	BL	BL	NA	NA	NA	NA	NA
100	BL	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL
101	BL	BL	BL	BL	BL	BL	BL	BL	BL
102	BL	BL	BL	BL	BL	BL	BL	BL	BL
103	BL	BL	BL	BL	BL	BL	BL	BL	BL
104	BL	BL	BL	BL	NA	NA	NA	NA	NA
105	BL	BL	BL	BL	BL	BL	BL	BL	BL
106	BL	BL	BL	BL	BL	BL	BL	BL	BL
107	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
108	BL	BL	BL	BL	BL	BL	BL	BL	BL
109	BL	BL	BL	BL	NA	NA	NA	NA	NA
110	BL	BL	BL	BL	BL	BL	BL	BL	BL
111	BL	BL	BL	BL	NA	NA	NA	NA	NA
112	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
113	BL	BL	BL	BL	BL	BL	BL	BL	BL
114	BL	BL	BL	BL	BL	BL	BL	BL	BL
115	BL	BL	BL	BL	BL	BL	BL	BL	BL
116	BL	BL	BL	BL	BL	BL	BL	BL	BL
117	BL	BL	BL	BL	BL	BL	BL	BL	BL
118	BL	BL	BL	BL	BL	BL	BL	BL	BL
119	BL	BL	BL	BL	BL	BL	BL	BL	BL
120	BL	BL	BL	BL	BL	BL	BL	BL	BL
121	BL	BL	BL	BL	NA	NA	NA	NA	NA
122	BL	BL	BL	BL	BL	BL	BL	BL	BL
123	BL	BL	BL	BL	BL	BL	BL	BL	BL
124	BL	BL	BL	BL	NA	NA	NA	NA	NA



Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
125	BL	BL	BL	BL	BL	BL	BL	BL	BL
126	BL	BL	BL	BL	NA	NA	NA	NA	NA
127	BL	BL	BL	BL	BL	BL	BL	BL	BL
128	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
129	BL	BL	BL	BL	BL	BL	BL	BL	BL
130	BL	BL	BL	BL	NA	NA	NA	NA	NA
131	BL	BL	BL	BL	NA	NA	NA	NA	NA
132	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
133	BL	BL	BL	BL	BL	BL	BL	BL	BL
134	BL	BL	BL	BL	BL	BL	BL	BL	BL
135	BL	BL	BL	BL	BL	BL	BL	BL	BL
136	BL	BL	BL	BL	BL	BL	BL	BL	BL
137	BL	BL	BL	BL	BL	BL	BL	BL	BL
138	Inc. ^(a)	BL	BL	BL	NA	NA	NA	NA	NA
139	BL	BL	BL	BL	BL	BL	BL	BL	BL
140	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
141	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
142	BL	BL	BL	BL	NA	NA	NA	NA	NA
143	BL	BL	BL	BL	BL	BL	BL	BL	BL
144	BL	BL	BL	BL	BL	BL	BL	BL	BL
145	BL	BL	BL	BL	BL	BL	BL	BL	BL
146	BL	BL	BL	BL	BL	BL	BL	BL	BL
147	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA

Note:

- "BL" denotes below limit
- "OL" denotes over limit
- "Inc." denotes inconclusive
- "NA" denotes not applicable
- "(a)" denotes further confirmation test was conducted, results are listed in 2.2, 2.3 and 2.4.



-XRF screening limits in mg/kg for regulated elements in various matrices

ELEMENT	POLYMER		
	BL	INCONCLUSIVE	OL
Cd	$X \leq (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X \geq (130+3\sigma)$
Pb	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Hg	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Br	$X \leq (300-3\sigma)$	$X > (300-3\sigma)$	NA
Cr	$X \leq (700-3\sigma)$	$X > (700-3\sigma)$	NA

ELEMENT	METAL		
	BL	INCONCLUSIVE	OL
Cd	$X \leq (70-3\sigma)$	$(70-3\sigma) < X < (130+3\sigma)$	$X \geq (130+3\sigma)$
Pb	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Hg	$X \leq (700-3\sigma)$	$(700-3\sigma) < X < (1300+3\sigma)$	$X \geq (1300+3\sigma)$
Cr	$X \leq (700-3\sigma)$	$X > (700-3\sigma)$	NA

ELEMENT	COMPLEX MATERIAL		
	BL	INCONCLUSIVE	OL
Cd	$X \leq (50-3\sigma)$	$(50-3\sigma) < X < (150+3\sigma)$	$X \geq (150+3\sigma)$
Pb	$X \leq (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X \geq (1500+3\sigma)$
Hg	$X \leq (500-3\sigma)$	$(500-3\sigma) < X < (1500+3\sigma)$	$X \geq (1500+3\sigma)$
Br	$X \leq (250-3\sigma)$	$X > (250-3\sigma)$	NA
Cr	$X \leq (500-3\sigma)$	$X > (500-3\sigma)$	NA

-Screening limits in mg/kg for regulated phthalates in various matrices

PHthalATES	BL	INCONCLUSIVE
DEHP	$X < 600$	$X \geq 600$
BBP	$X < 600$	$X \geq 600$
DBP	$X < 600$	$X \geq 600$
DIBP	$X < 600$	$X \geq 600$



2.2 HEAVY METAL CONTENT

Test method: With reference to EN 62321-4:2014 /A1:2017, EN 62321-5:2014, EN 62321-7-1:2015 and EN 62321-7-2:2017, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and Ultraviolet-visible spectrophotometer (UV-Vis).

[Reporting Limit: 2.0 mg/kg for Cadmium; 10.0 mg/kg or 0.10 µg/cm² for Hexavalent Chromium, 10.0 mg/kg for Lead and Mercury.]

Sample No.	Result(s)				
	Total Cadmium	Hexavalent Chromium	Hexavalent Chromium	Total Mercury	Total Lead
014	<2.0	--	--	--	--
018	--	--	--	--	2.73×10 ^{4(a)}
022	--	/	Negative	--	--
025	<2.0	--	--	--	--
026	<2.0	--	--	--	--
030	--	<10.0	/	--	38.1
036	--	<10.0	/	--	422
037	<2.0	--	--	--	--
041	--	<10.0	/	--	--
042	--	/	Negative	--	--
043	--	/	Negative	--	--
044	--	<10.0	/	--	--
059	--	/	Negative	--	--
062	50.4	--	--	--	2.51×10 ^{4(a)}
063	--	--	--	--	3.06×10 ^{4(a)}
066	--	<10.0	/	--	--
067	--	/	Negative	--	--
068	--	/	Negative	--	--
069	<2.0	/	Negative	--	104.1
071	<2.0	--	--	--	--
078	--	/	Negative	--	--
079	--	/	Negative	--	--
082	--	--	--	--	2.44×10 ^{4(a)}
087	--	/	Negative	--	--
097	<2.0	--	--	--	--
107	--	/	Negative	--	--



Sample No.	Result(s)				
	Total Cadmium	Hexavalent Chromium	Hexavalent Chromium	Total Mercury	Total Lead
128	--	/	Negative	--	--
138	<2.0	--	--	--	--
140	--	/	Negative	--	--
141	--	/	Negative	--	--
147	--	/	Negative	--	--
Unit	mg/kg	mg/kg	µg/cm ²	mg/kg	mg/kg
RoHS Requirement	100	1000	Negative [#]	1000	1000

Note:

- "mg/kg" denotes milligram per kilogram
- "µg/cm²" denotes micrograms per square centimeter
- "<" denotes less than
- "Negative" denotes the absorbance value of sample is < 0.10 µg/cm², the sample is considered to be negative for Hexavalent Chromium.
- "[#]" According to DIRECTIVE 2011/65/EU Article 4(1) and Annex II. While, positive means the presence of CrVI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1) and Annex II.
- "--" denotes tested by XRF, result is listed in 2.1
- "(a)" denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(c) "Copper alloy containing up to 4 % lead by weight".



2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]	RoHS Requirement [mg/kg]
		Sample 006+017+020	
PBBs	Monobromobiphenyl	<5	Sum of PBBs 1000
	Dibromobiphenyl	<5	
	Tribromobiphenyl	<5	
	Tetrabromobiphenyl	<5	
	Pentabromobiphenyl	<5	
	Hexabromobiphenyl	<5	
	Heptabromobiphenyl	<5	
	Octabromobiphenyl	<5	
	Nonabromobiphenyl	<5	
	Decabromobiphenyl	<5	
	Sum of detected PBBs	<50	
PBDEs	Monobromodiphenyl ether	<5	Sum of PBDEs 1000
	Dibromodiphenyl ether	<5	
	Tribromodiphenyl ether	<5	
	Tetrabromodiphenyl ether	<5	
	Pentabromodiphenyl ether	<5	
	Hexabromodiphenyl ether	<5	
	Heptabromodiphenyl ether	<5	
	Octabromodiphenyl ether	<5	
	Nonabromodiphenyl ether	<5	
	Decabromodiphenyl ether	<5	
	Sum of detected PBDEs	<50	

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than



2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]		RoHS Requirement [mg/kg]
		Sample 024+051+070	Sample 025+064+075	
PBBs	Monobromobiphenyl	<5	<5	Sum of PBBs 1000
	Dibromobiphenyl	<5	<5	
	Tribromobiphenyl	<5	<5	
	Tetrabromobiphenyl	<5	<5	
	Pentabromobiphenyl	<5	<5	
	Hexabromobiphenyl	<5	<5	
	Heptabromobiphenyl	<5	<5	
	Octabromobiphenyl	<5	<5	
	Nonabromobiphenyl	<5	<5	
	Decabromobiphenyl	<5	<5	
	Sum of detected PBBs	<50	<50	
PBDEs	Monobromodiphenyl ether	<5	<5	Sum of PBDEs 1000
	Dibromodiphenyl ether	<5	<5	
	Tribromodiphenyl ether	<5	<5	
	Tetrabromodiphenyl ether	<5	<5	
	Pentabromodiphenyl ether	<5	<5	
	Hexabromodiphenyl ether	<5	<5	
	Heptabromodiphenyl ether	<5	<5	
	Octabromodiphenyl ether	<5	<5	
	Nonabromodiphenyl ether	<5	<5	
	Decabromodiphenyl ether	<5	<5	
	Sum of detected PBDEs	<50	<50	

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than



2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]		RoHS Requirement [mg/kg]
		Sample 030+071	Sample 073+112+132	
PBBs	Monobromobiphenyl	<5	<5	Sum of PBBs 1000
	Dibromobiphenyl	<5	<5	
	Tribromobiphenyl	<5	<5	
	Tetrabromobiphenyl	<5	<5	
	Pentabromobiphenyl	<5	<5	
	Hexabromobiphenyl	<5	<5	
	Heptabromobiphenyl	<5	<5	
	Octabromobiphenyl	<5	<5	
	Nonabromobiphenyl	<5	<5	
	Decabromobiphenyl	<5	<5	
	Sum of detected PBBs	<50	<50	
PBDEs	Monobromodiphenyl ether	<5	<5	Sum of PBDEs 1000
	Dibromodiphenyl ether	<5	<5	
	Tribromodiphenyl ether	<5	<5	
	Tetrabromodiphenyl ether	<5	<5	
	Pentabromodiphenyl ether	<5	<5	
	Hexabromodiphenyl ether	<5	<5	
	Heptabromodiphenyl ether	<5	<5	
	Octabromodiphenyl ether	<5	<5	
	Nonabromodiphenyl ether	<5	<5	
	Decabromodiphenyl ether	<5	<5	
	Sum of detected PBDEs	<50	<50	

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than



2.3 POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 5 mg/kg]

Test Item		Result(s) [mg/kg]	RoHS Requirement [mg/kg]
		Sample 081+098	
PBBs	Monobromobiphenyl	<5	Sum of PBBs 1000
	Dibromobiphenyl	<5	
	Tribromobiphenyl	<5	
	Tetrabromobiphenyl	<5	
	Pentabromobiphenyl	<5	
	Hexabromobiphenyl	<5	
	Heptabromobiphenyl	<5	
	Octabromobiphenyl	<5	
	Nonabromobiphenyl	<5	
	Decabromobiphenyl	<5	
	Sum of detected PBBs	<50	
PBDEs	Monobromodiphenyl ether	<5	Sum of PBDEs 1000
	Dibromodiphenyl ether	<5	
	Tribromodiphenyl ether	<5	
	Tetrabromodiphenyl ether	<5	
	Pentabromodiphenyl ether	<5	
	Hexabromodiphenyl ether	<5	
	Heptabromodiphenyl ether	<5	
	Octabromodiphenyl ether	<5	
	Nonabromodiphenyl ether	<5	
	Decabromodiphenyl ether	<5	
	Sum of detected PBDEs	<50	

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than



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2.4 PHTHALATES (DEHP, BBP, DBP and DIBP) CONTENT TEST

Test method: With reference to EN 62321-8:2017, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometer (GC-MS). [Reporting Limit : 100 mg/kg]

Test Item	Result(s) [mg/kg]	RoHS Requirement [mg/kg]
	Sample 095+100	
Di-(2-ethyl-hexyl) Phthalate (DEHP)	101	1000
Butyl-benzyl Phthalate (BBP)	<100	1000
Di-butyl Phthalate (DBP)	<100	1000
Di-iso-butyl Phthalate (DIBP)	<100	1000

Note:

- "mg/kg" denotes milligram per kilogram
- "<" denotes less than



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APPENDIX I:

Photos of submitted products



Jump Starter (J402 PRO)

-----End of Report-----