

Dated: 2026-04-23

Applicant: Lihong Safety Equipment Engineering (Shanghai) Co., Ltd
Address: 1st Floor, Building 1, No. 2816 Yixian Road, Baoshan District, Shanghai 201900, P.R. China
Sample Description: Safety programmable controller
Model No.: SPC-1000, SPC-SIO8, SPC-SIO12
Sample Received Date: 2024-12-06
2025-01-13(Sample 139, 163, 191, 194)
2025-03-03(Sample 148, 153, 161)
Test Period: 2024-12-06 ~ 2024-12-25
2025-01-13 ~ 2025-01-16(Sample 139, 163, 191, 194)
2025-03-03 ~ 2025-03-04 (Sample 148, 153, 161)
Test Location: TÜV SÜD Certification and Testing (China) Co., Ltd.
Shanghai Branch, SHA Chemical Lab.
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.
- The reference model(s) was declared by client.
- The test sample(s) and item(s) was specified by client.

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TüV SÜD Certification and Testing (China) Co., Ltd.
TüV SÜD Group
Prepared by:



Mr. Jialong HAN

Reviewed by:



Mr. Feng ZHANG

Disclaimer Measurement Uncertainty: Unless otherwise agreed upon, Pass or Fail verdicts are given base on the measured values without any considerations 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 nor as Fail.

Any use for advertising purposes must be granted in writing. This test report may only be quoted in full. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production. For further details, please see testing and certification regulation, chapter A-3.4.







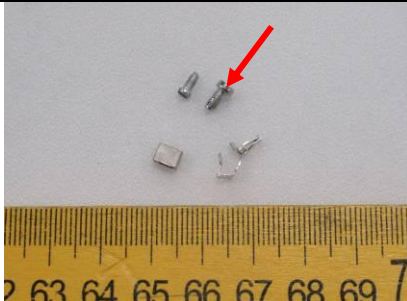
SUMMARY OF TEST RESULTS

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	

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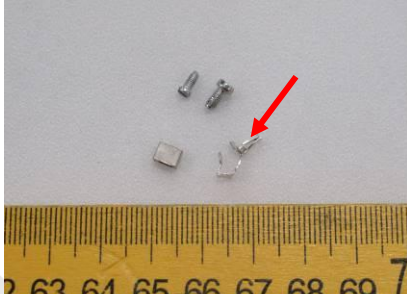



1. TESTED SUBJECT DESCRIPTION

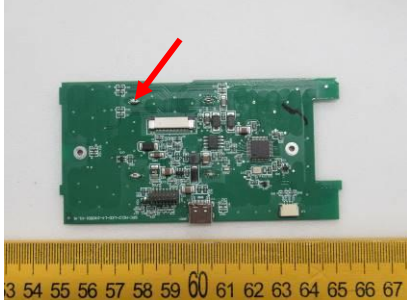
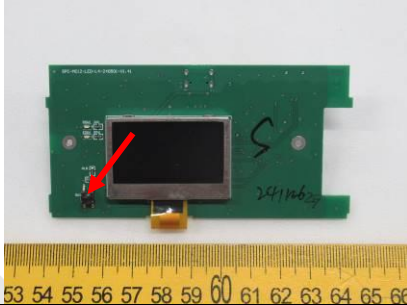
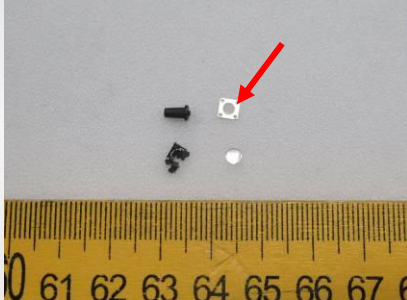
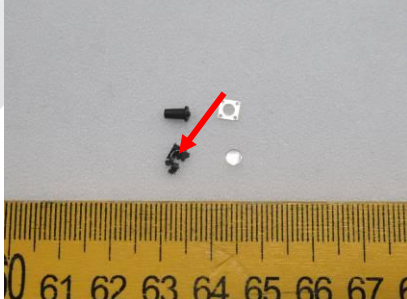
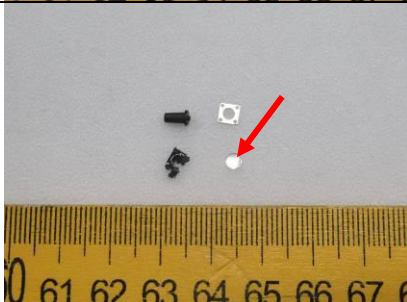
Sample No.	Description (Material, colour)	Photograph/Location
01	Yellow plastic frame	
02	Yellow plastic label	
03	Transparent plastic component	
04	Black plastic frame	
05	Silvery metal screw	

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Sample No.	Description (Material, colour)	Photograph/Location
06	Silvery copper alloy frame	
07	Silvery metal bracket	
08	Black plastic frame	
09	Yellow plastic frame	
10	Green PCB	

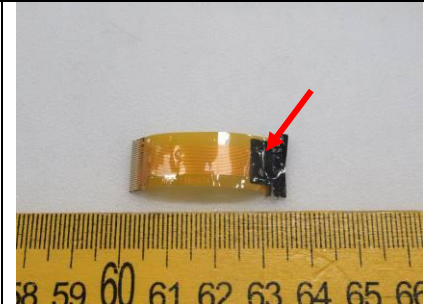
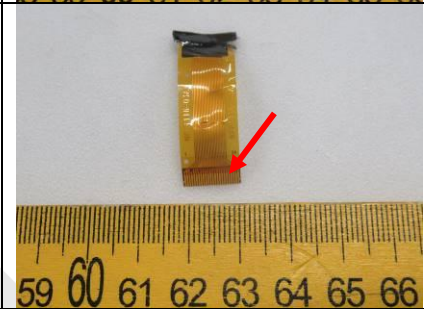
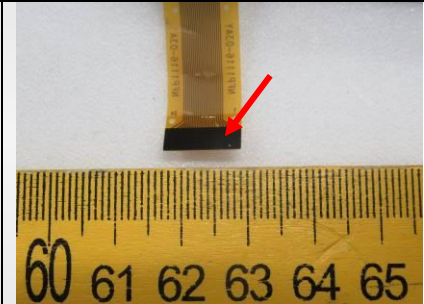
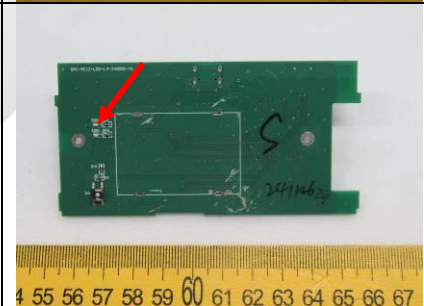
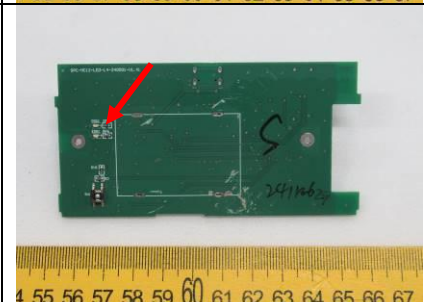
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Sample No.	Description (Material, colour)	Photograph/Location
11	Silvery metal solder	
12	Black plastic button	
13	Silvery metal frame	
14	Black plastic frame	
15	Silvery metal slice	

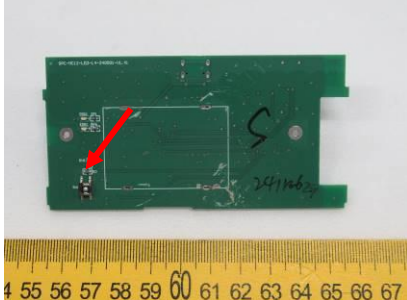
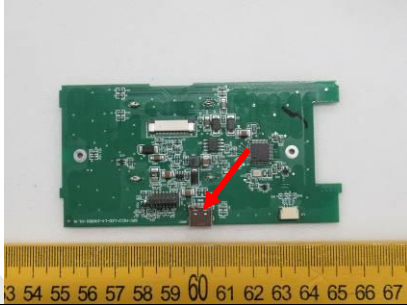
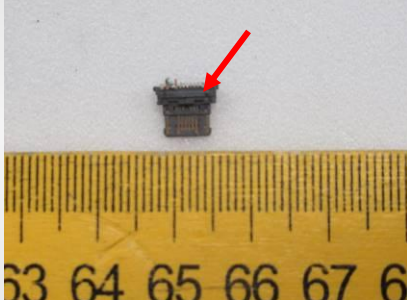
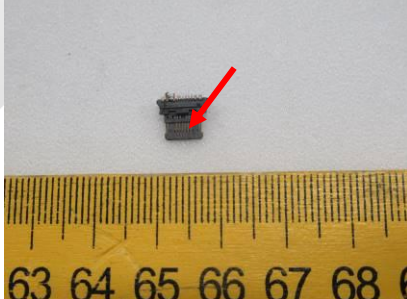
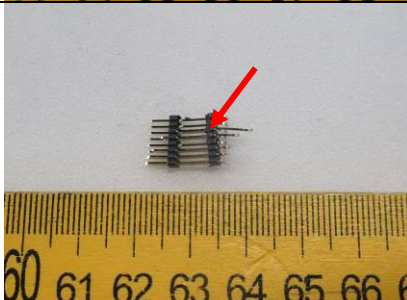
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Sample No.	Description (Material, colour)	Photograph/Location
16	Silvery metal frame	
17	Transparent black plastic film	
18	Black sponge gasket	
19	Transparent glass	
20	Golden FPC	

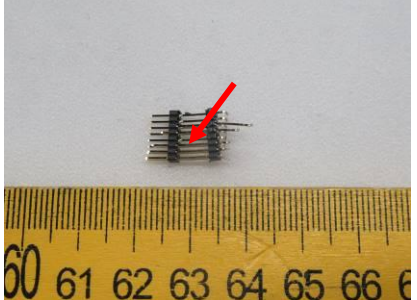
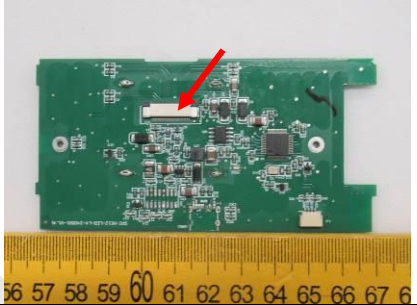
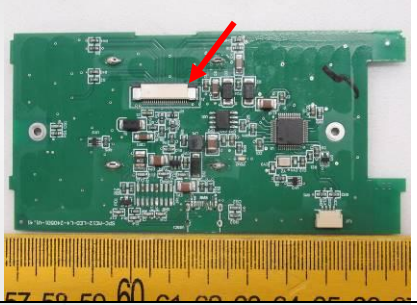
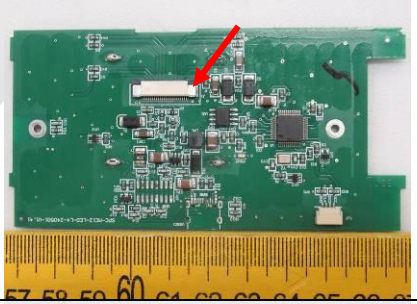
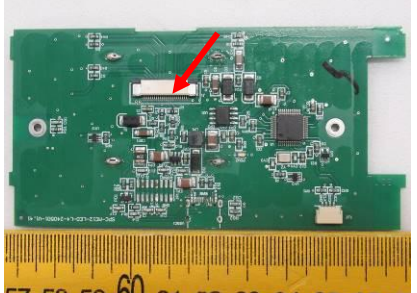
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Sample No.	Description (Material, colour)	Photograph/Location
21	Black plastic tape	
22	Golden metal pin	
23	Black plastic slice	
24	Yellow LED	
25	Black resistor	

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Sample No.	Description (Material, colour)	Photograph/Location
26	Brown capacitor	
27	Silvery metal frame	
28	Black plastic frame	
29	Golden metal pin	
30	Black plastic frame	

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Sample No.	Description (Material, colour)	Photograph/Location
31	Silvery metal pin	
32	White plastic frame	
33	Black plastic bracket	
34	Silvery metal frame	
35	Silvery metal pin	

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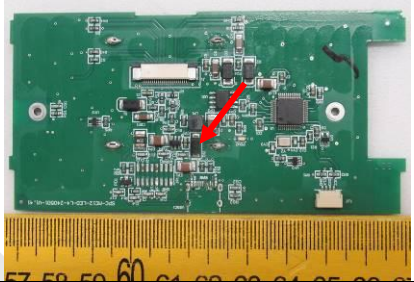
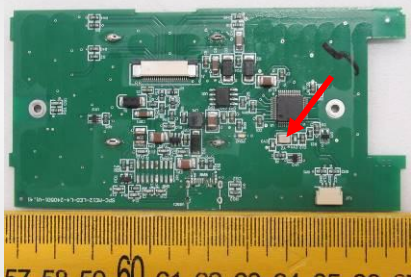
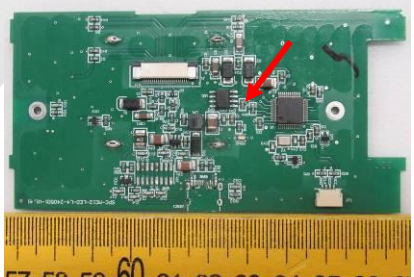
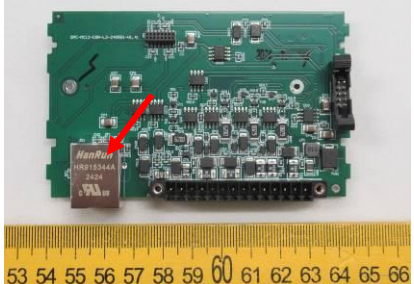
Sample No.	Description (Material, colour)	Photograph/Location
36	Beige plastic socket	
37	Silvery metal pin	
38	Black IC	
39	Brown capacitor	
40	Black diode	

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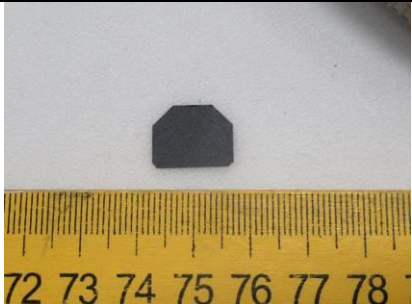
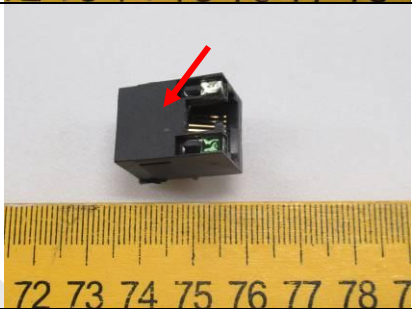
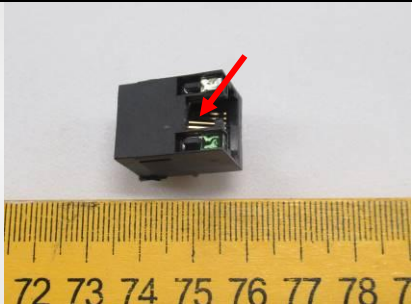
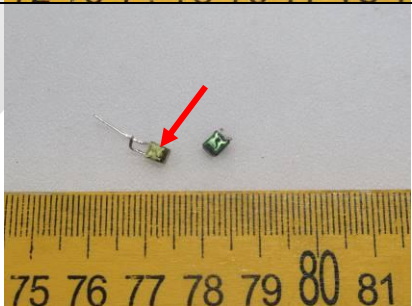
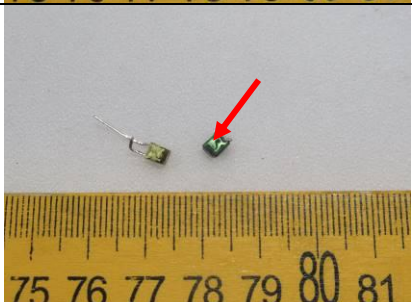
Sample No.	Description (Material, colour)	Photograph/Location
41	Black IC	
42	Grey capacitor	
43	Black resistor	
44	Black IC	
45	Black resistor	

Sample No.	Description (Material, colour)	Photograph/Location
46	Black resistor	
47	Black resistor	
48	Black resistor	
49	Black metal magnet frame	
50	Golden metal wire	

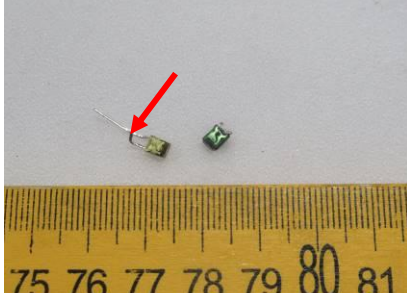
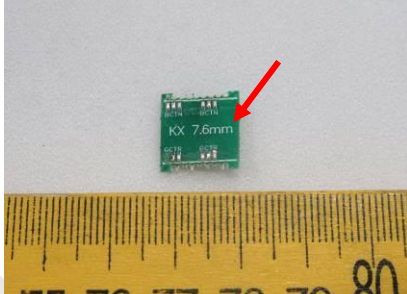
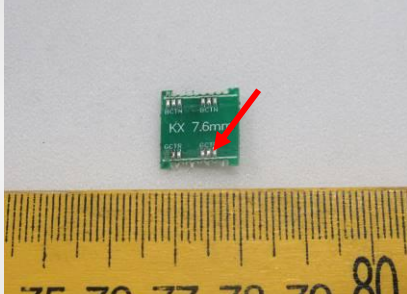
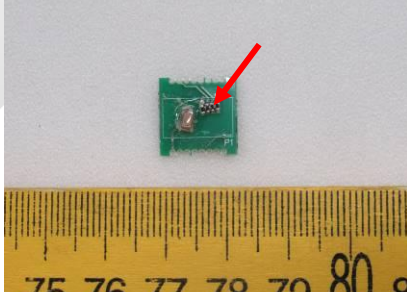
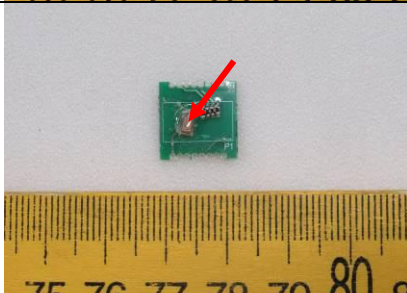
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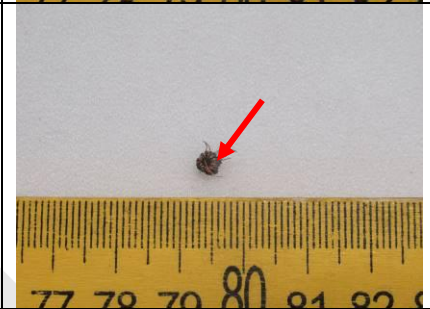



Sample No.	Description (Material, colour)	Photograph/Location
51	Black IC	
52	Black diode	
53	Silvery metal crystal oscillator	
54	Black resistor	
55	Silvery metal frame	

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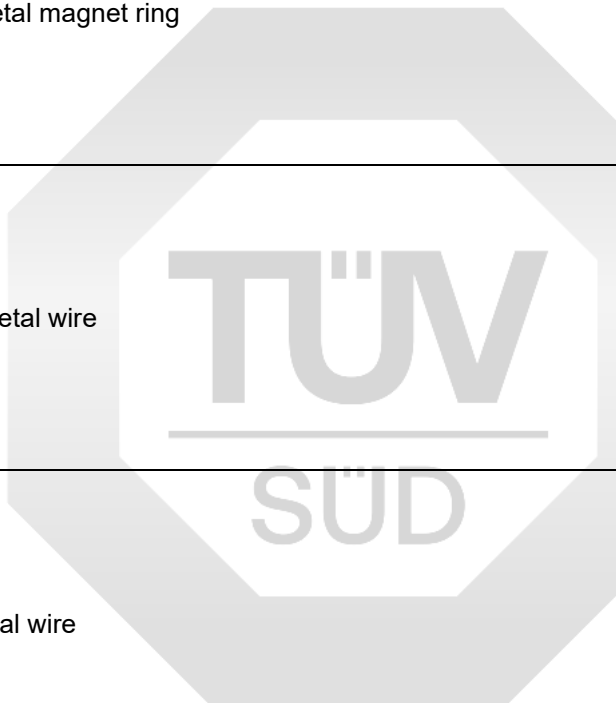
Sample No.	Description (Material, colour)	Photograph/Location
56	Black plastic film	
57	Black plastic frame	
58	Golden metal pin	
59	Yellow plastic light	
60	Green plastic light	


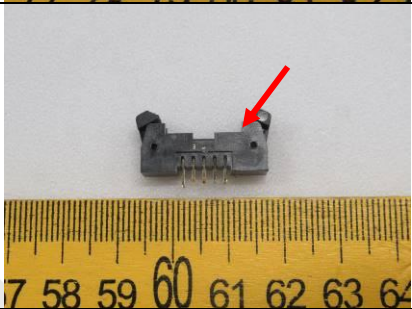
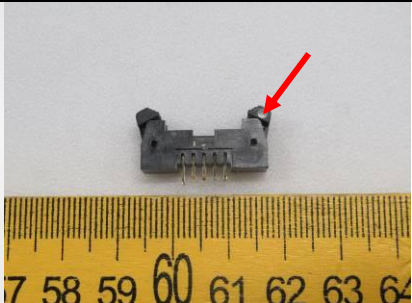
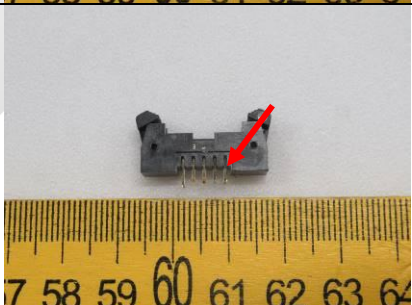

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Sample No.	Description (Material, colour)	Photograph/Location
61	Silvery metal pin	
62	Green PCB	
63	Silvery metal solder	
64	Black resistor	
65	Brown capacitor	

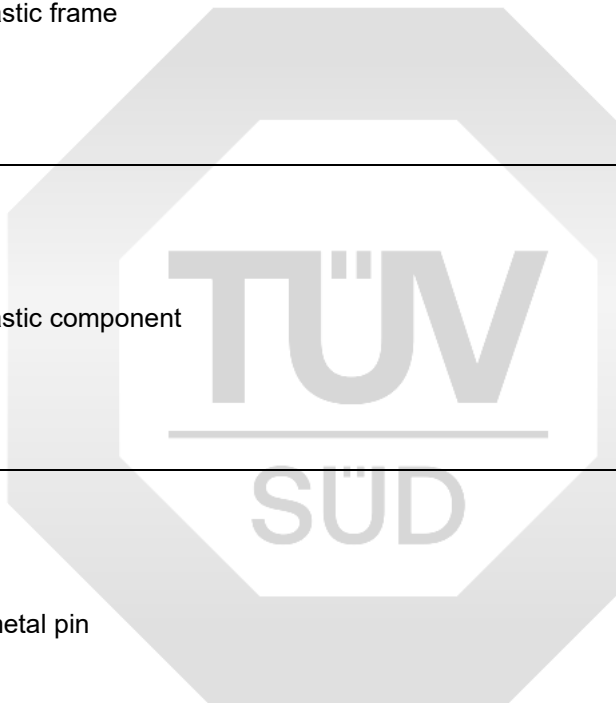
Sample No.	Description (Material, colour)	Photograph/Location
66	Black silicone grease	
67	Black metal magnet ring	
68	Green metal wire	
69	Blue metal wire	
70	Red metal wire	

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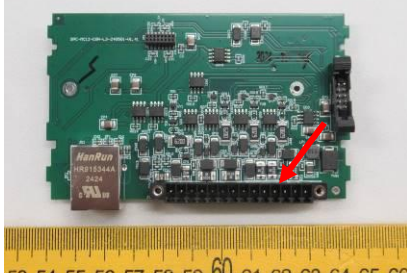
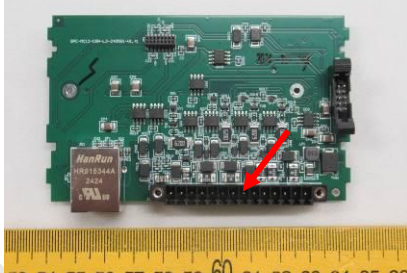
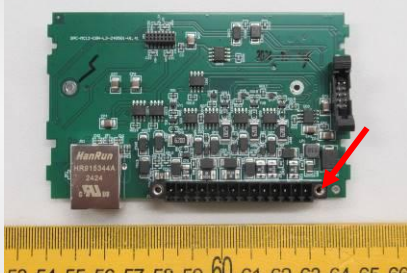
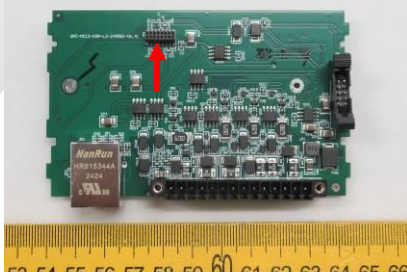
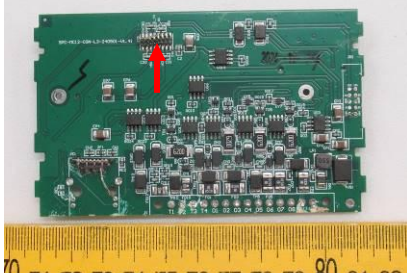


Sample No.	Description (Material, colour)	Photograph/Location
71	Golden metal wire	
72	Black plastic frame	
73	Black plastic component	
74	Silvery metal pin	
75	Silvery metal tube	

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Sample No.	Description (Material, colour)	Photograph/Location
76	Black plastic frame	
77	Silvery metal pin	
78	Golden copper alloy nut	
79	Black plastic socket	
80	Silvery metal pin	

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Sample No.	Description (Material, colour)	Photograph/Location
81	Black diode	
82	Black diode	
83	Black diode	
84	Black resistor	
85	Black triode	

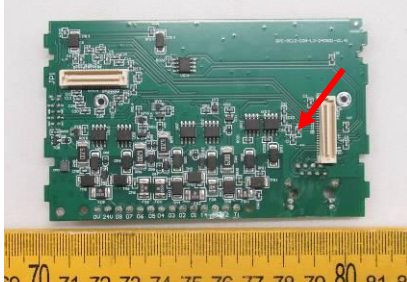
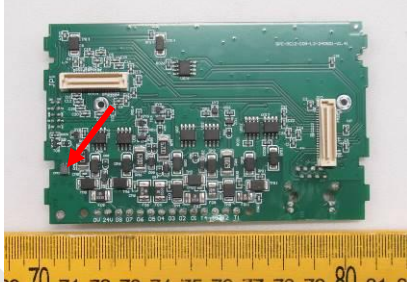
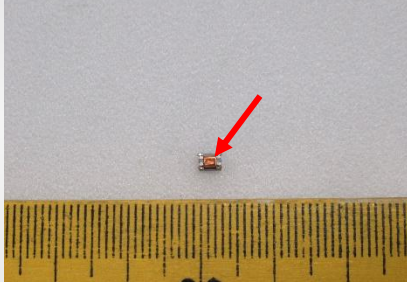


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Sample No.	Description (Material, colour)	Photograph/Location
86	Black metal magnet frame	
87	Golden metal wire	
88	Black diode	
89	Black IC	
90	Black resistor	





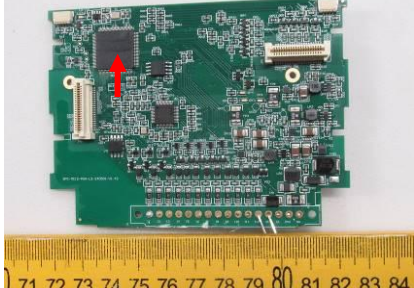
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Sample No.	Description (Material, colour)	Photograph/Location
91	Black resistor	
92	Black resistor	
93	Black capacitor	
94	Beige plastic frame	
95	Silvery metal pin	





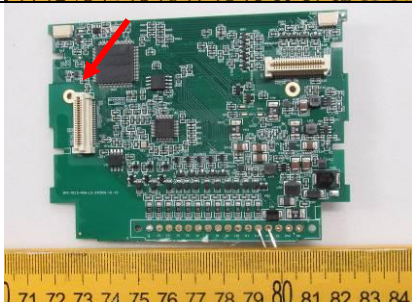
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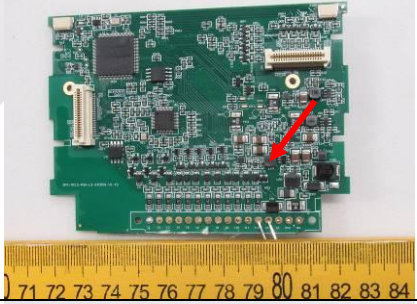

Sample No.	Description (Material, colour)	Photograph/Location
96	White capacitor	
97	Black metal magnet frame	
98	Golden metal wire	
99	Silvery metal pin	
100	Beige plastic frame	



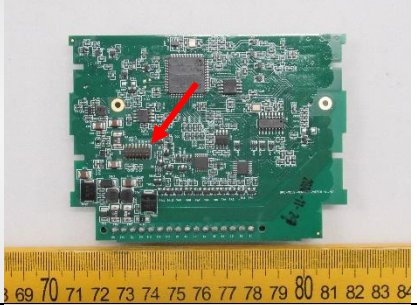
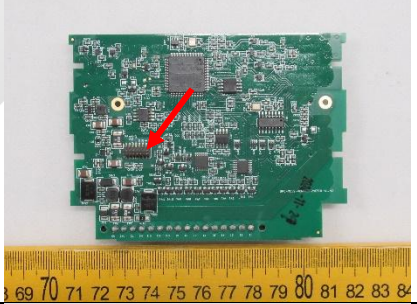

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Sample No.	Description (Material, colour)	Photograph/Location
101	Silvery metal pin	
102	Black plastic frame	
103	Silvery metal pin	
104	Silvery copper alloy nut	
105	Black IC	

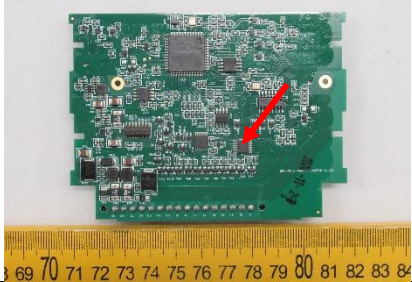


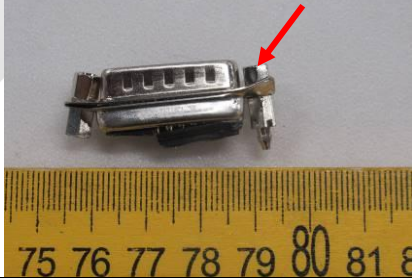

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Sample No.	Description (Material, colour)	Photograph/Location
106	Black IC	
107	Black IC	
108	Silvery metal crystal oscillator	
109	Black IC	
110	Brown capacitor	





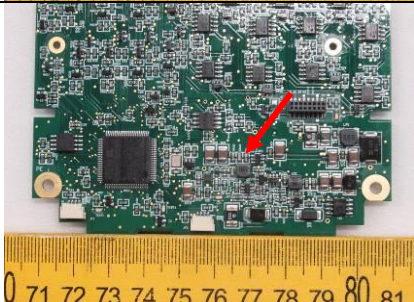
Sample No.	Description (Material, colour)	Photograph/Location
111	Black resistor	
112	Black resistor	
113	Black capacitor	
114	Black metal magnet frame	
115	Golden metal wire	

Sample No.	Description (Material, colour)	Photograph/Location
116	Black IC	
117	Black IC	
118	Black plastic frame	
119	Silvery metal pin	
120	Black IC	

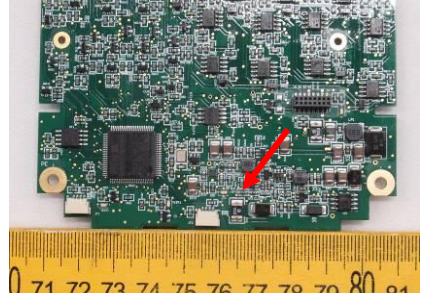
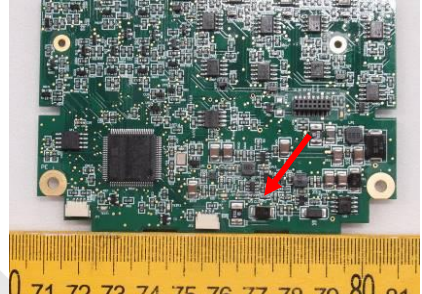
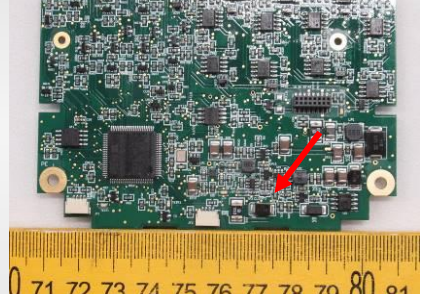
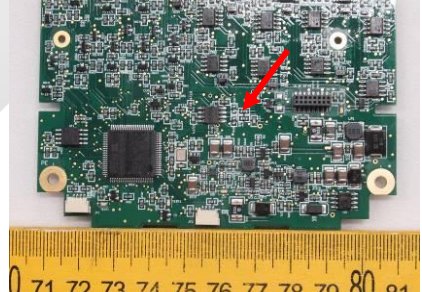

TEC_WUX_F_25.05E - Rev. 00 2021-06-24

Sample No.	Description (Material, colour)	Photograph/Location
121	Black IC	
122	Silvery metal frame	
123	Silvery metal frame	
124	Silvery metal component	
125	Black plastic frame	

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Sample No.	Description (Material, colour)	Photograph/Location
126	Golden metal pin	
127	Black plastic frame	
128	Golden metal pin	
129	Black plastic frame	
130	Black resistor	

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Sample No.	Description (Material, colour)	Photograph/Location
131	Black resistor	
132	Black resistor	
133	Black resistor	
134	Black resistor	
135	Silvery metal plate	

Sample No.	Description (Material, colour)	Photograph/Location
136	Golden copper alloy nut	
137	Silvery metal nut	
138	Silvery metal bracket	
139	Golden copper alloy screw	
140	Golden copper alloy nut	


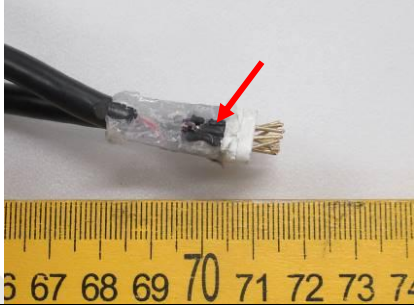
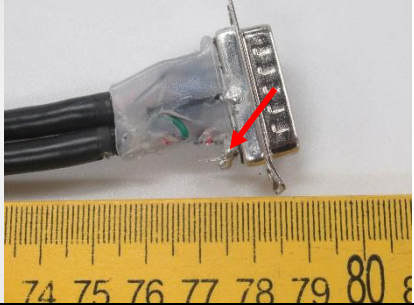
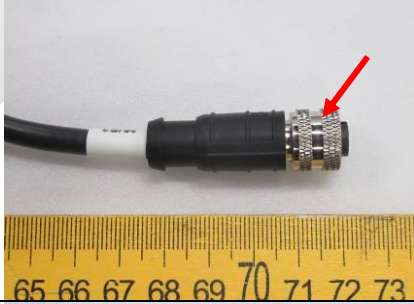

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Sample No.	Description (Material, colour)	Photograph/Location
141	Silvery metal screw	
142	Black metal screw	
143	Black plastic wire jacket	
144	Black plastic sleeve	
145	Silvery metal screw	


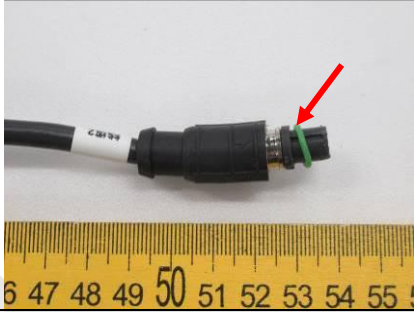



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Sample No.	Description (Material, colour)	Photograph/Location
146	Silvery metal frame	
147	Silvery metal frame	
148	Silvery metal solder	
149	Translucent glue	
150	White plastic frame	

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Sample No.	Description (Material, colour)	Photograph/Location
151	Golden metal pin	
152	Black plastic heat shrinkable tube	
153	Silvery metal solder	
154	Silvery copper alloy sheath	
155	Black plastic sleeve	


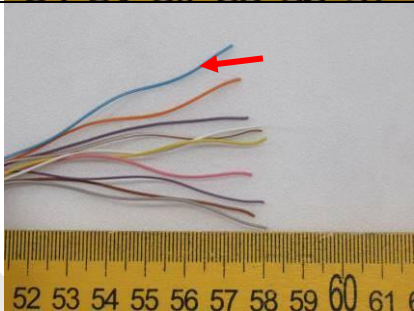
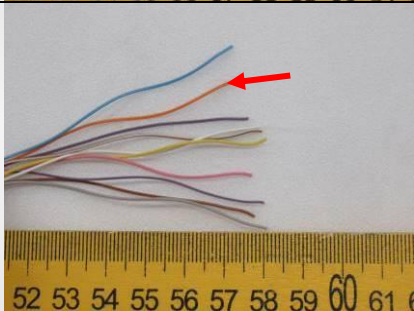
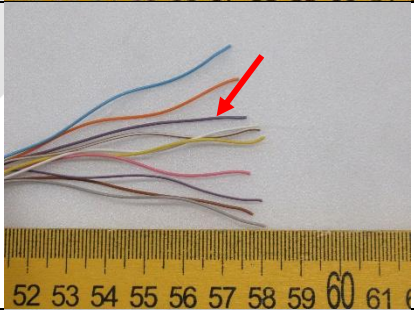
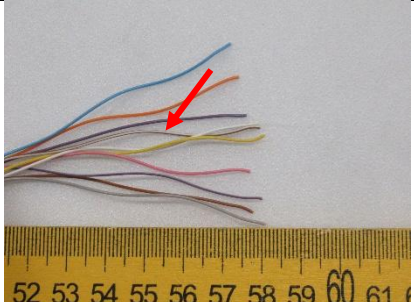
TEC_WUX_F_25.05E - Rev. 00 2021-06-24

Sample No.	Description (Material, colour)	Photograph/Location
156	White plastic sheath	
157	Green rubber seal ring	
158	Black plastic frame	
159	Silvery metal pin	
160	Silvery copper alloy sheath	

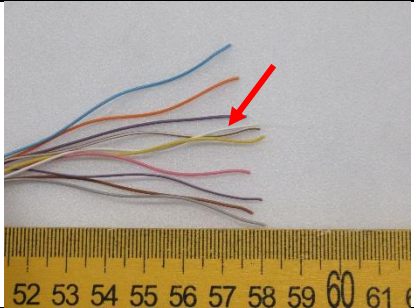
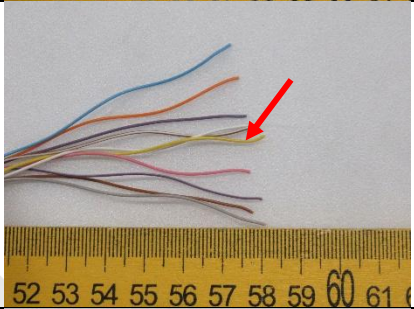
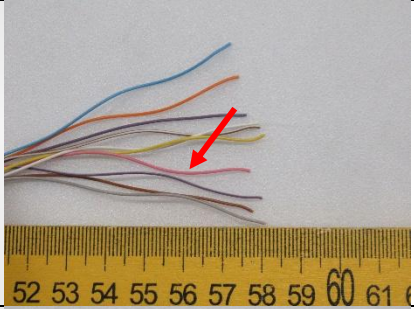
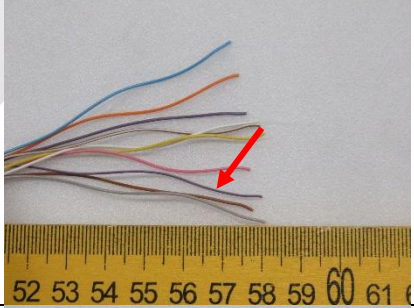
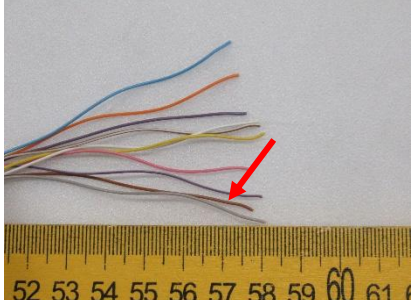
TEC_WUX_F_25.05E - Rev. 00 2021-06-24

Sample No.	Description (Material, colour)	Photograph/Location
161	Silvery metal solder	
162	Black plastic heat shrinkable tube	
163	Silvery metal solder	
164	Silvery metal net	
165	White component	

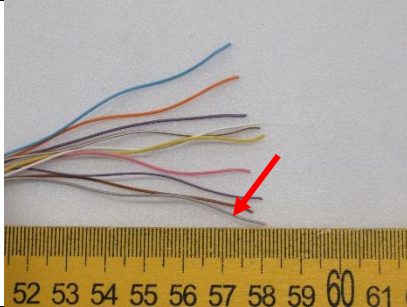
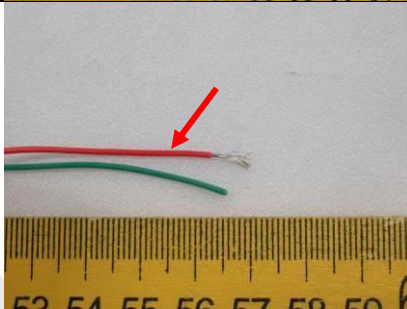
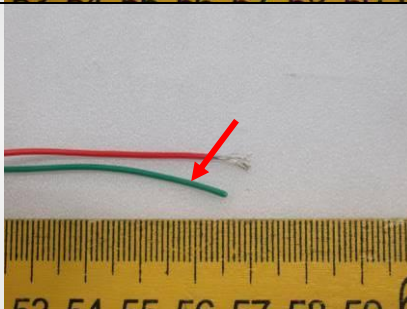
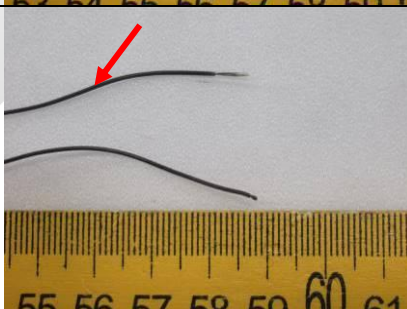
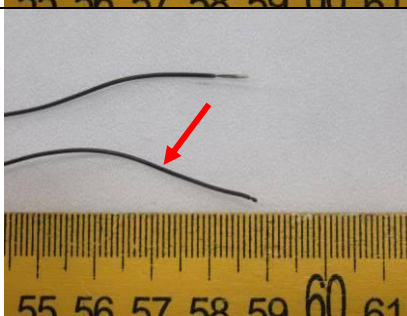
TEC_WUX_F_25.05E - Rev. 00 2021-06-24

Sample No.	Description (Material, colour)	Photograph/Location
166	White cotton thread	
167	Light blue plastic wire jacket	
168	Orange plastic wire jacket	
169	Purple and white plastic wire jacket	
170	Brown and white plastic wire jacket	

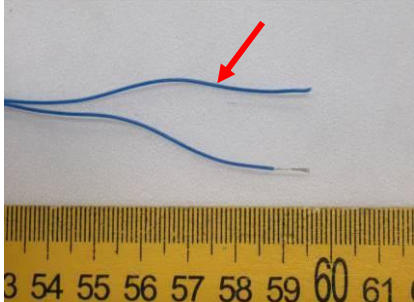
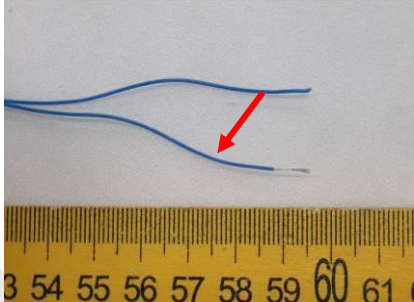
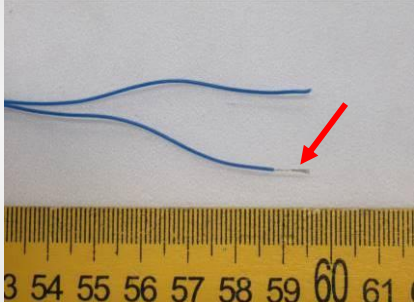


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Sample No.	Description (Material, colour)	Photograph/Location
171	White plastic wire jacket	
172	Yellow plastic wire jacket	
173	Pink plastic wire jacket	
174	Purple plastic wire jacket	
175	Brown plastic wire jacket	

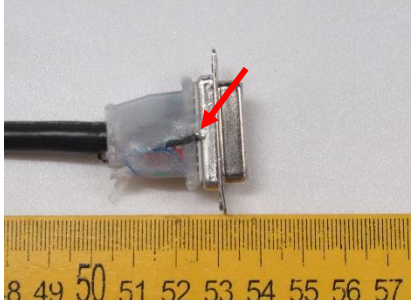
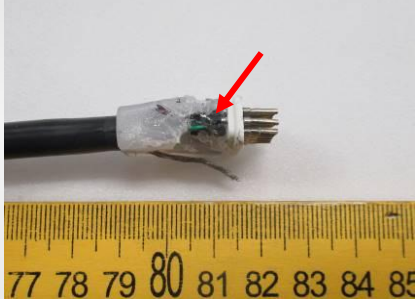
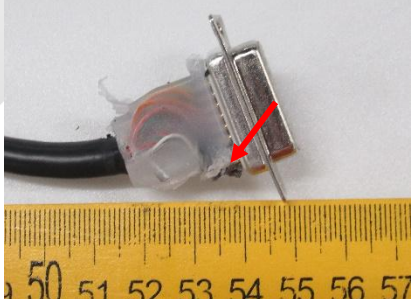
TEC_WUX_F_25.05E - Rev. 00 2021-06-24

Sample No.	Description (Material, colour)	Photograph/Location
176	Grey plastic wire jacket	
177	Red plastic wire jacket	
178	Green plastic wire jacket	
179	Black plastic wire jacket	
180	Black and white plastic wire jacket	

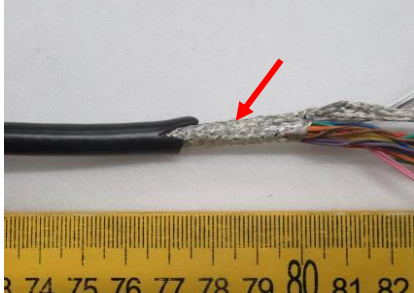

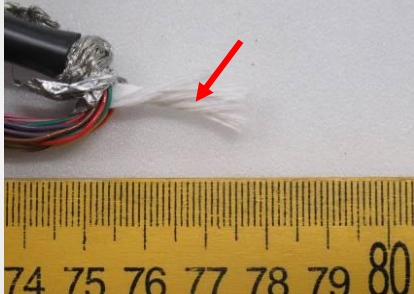
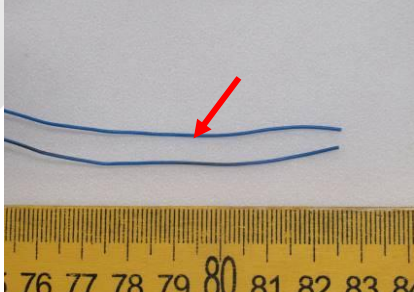
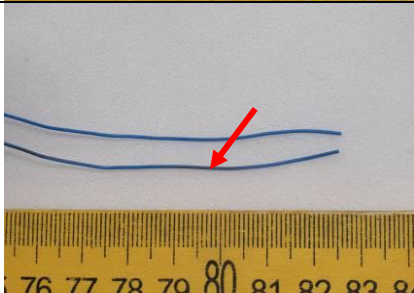
TEC_WUX_F_25.05E - Rev. 00 2021-06-24

Sample No.	Description (Material, colour)	Photograph/Location
181	Blue plastic wire jacket	
182	Blue and white plastic wire jacket	
183	Silvery metal wire	
184	Black plastic wire jacket	
185	Black plastic sleeve	

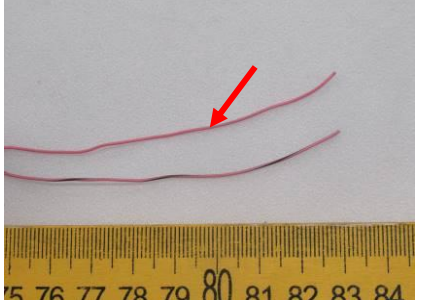
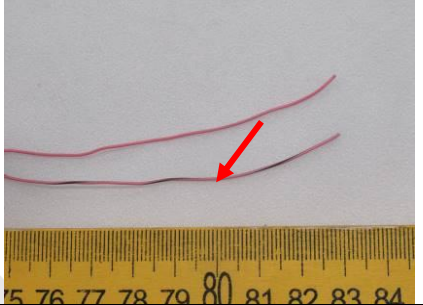
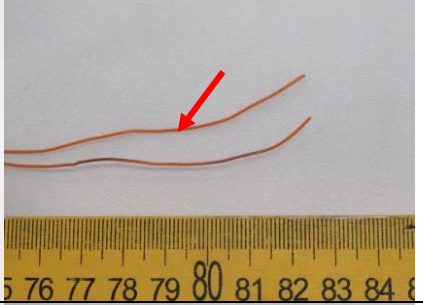
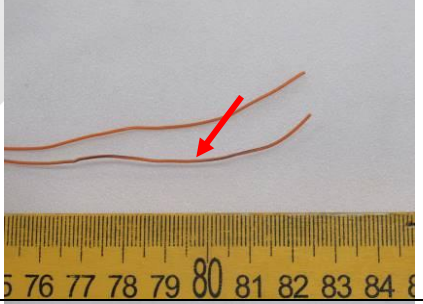

Sample No.	Description (Material, colour)	Photograph/Location
186	Silvery metal screw	
187	Silvery metal frame	
188	White plastic frame	
189	Silvery metal frame	
190	Translucent glue	

Sample No.	Description (Material, colour)	Photograph/Location
191	Silvery metal solder	
192	Silvery metal pin	
193	Black plastic heat shrinkable tube	
194	Silvery metal solder	
195	Translucent plastic cable tie	

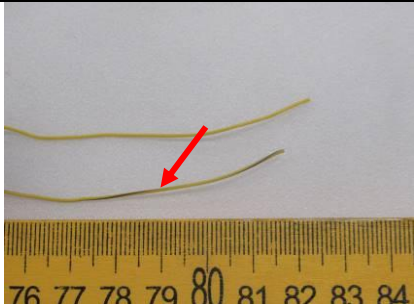
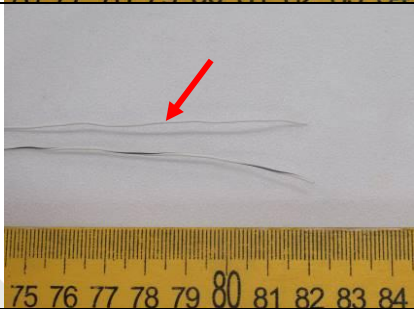

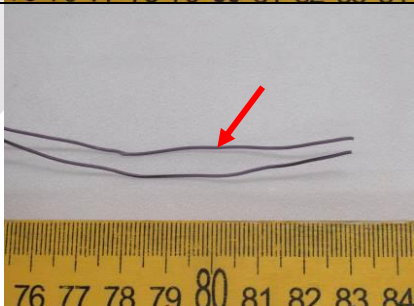
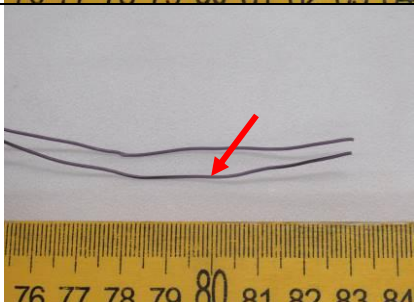
TEC_WUXI_F_25.05E - Rev. 00 2021-06-24

Sample No.	Description (Material, colour)	Photograph/Location
196	Silvery metal net	
197	Silvery metal foil	
198	Silvery cotton thread	
199	Blue plastic wire jacket	
200	Blue and black plastic wire jacket	

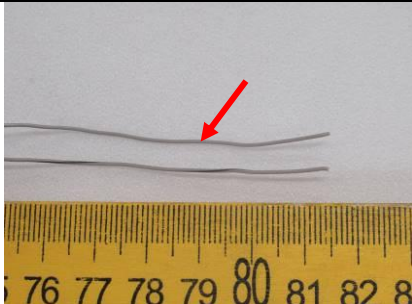
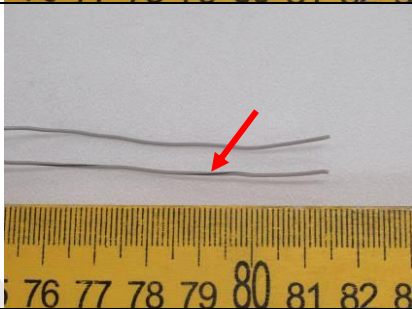
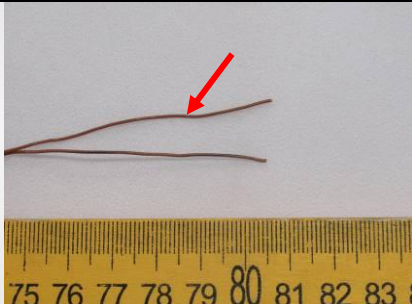
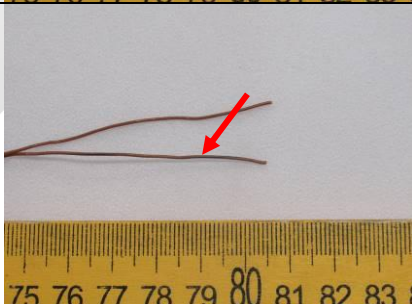
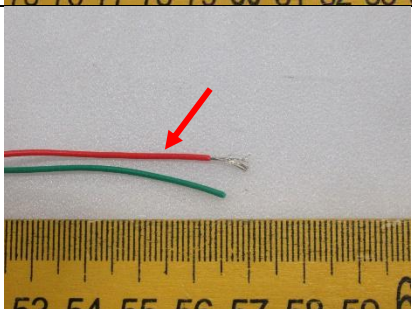
TEC_WUX_F_25.05E - Rev. 00 2021-06-24

Sample No.	Description (Material, colour)	Photograph/Location
201	Pink plastic wire jacket	
202	Pink and black plastic wire jacket	
203	Orange plastic wire jacket	
204	Orange and black plastic wire jacket	
205	Yellow plastic wire jacket	

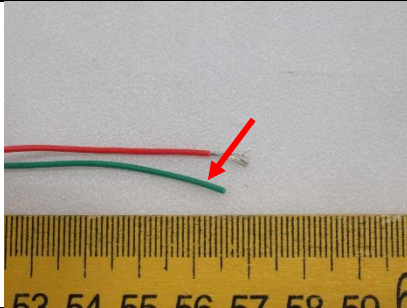
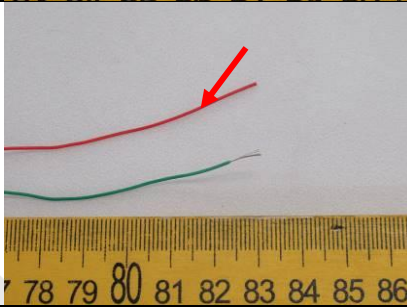
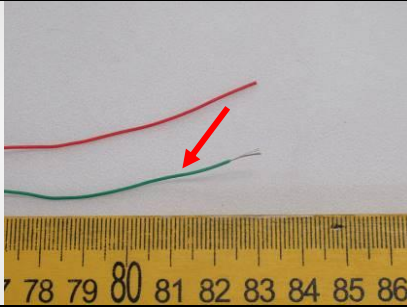
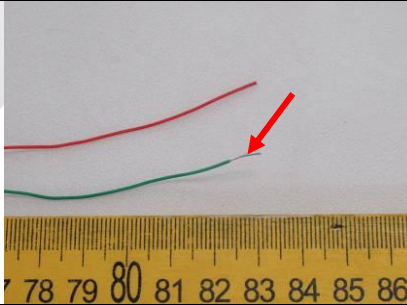

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Sample No.	Description (Material, colour)	Photograph/Location
206	Yellow and black plastic wire jacket	
207	White plastic wire jacket	
208	White and black plastic wire jacket	
209	Purple plastic wire jacket	
210	Purple and black plastic wire jacket	



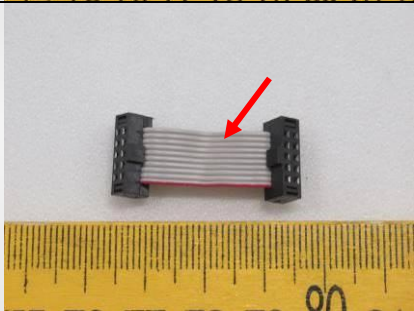

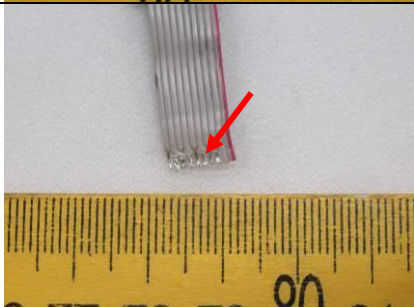
TEC_WUX_F_25.05E - Rev. 00 2021-06-24

Sample No.	Description (Material, colour)	Photograph/Location
211	Grey plastic wire jacket	
212	Grey and black plastic wire jacket	
213	Brown plastic wire jacket	
214	Brown and black plastic wire jacket	
215	Red and black plastic wire jacket	

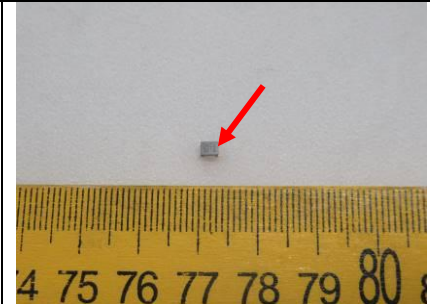
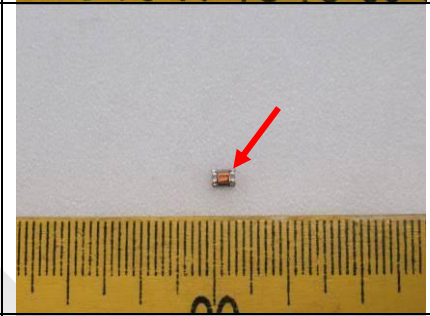
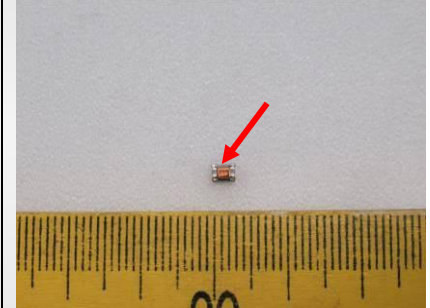

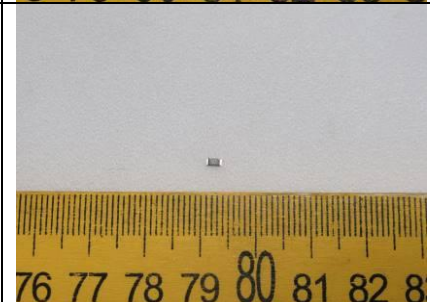
TEC_WUX_F_25.05E - Rev. 00 2021-06-24

Sample No.	Description (Material, colour)	Photograph/Location
216	Green and black plastic wire jacket	
217	Red plastic wire jacket	
218	Green plastic wire jacket	
219	Silvery metal wire	
220	Black resistor	

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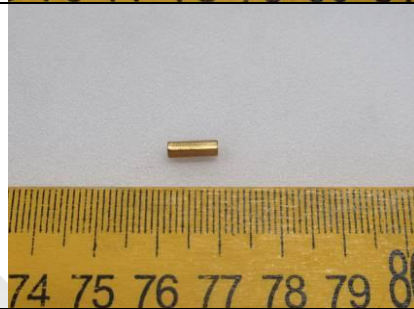
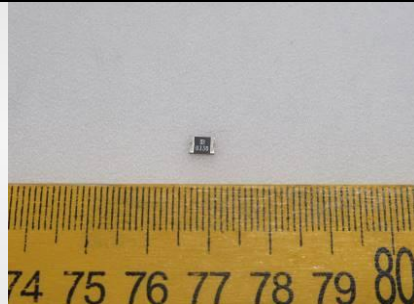
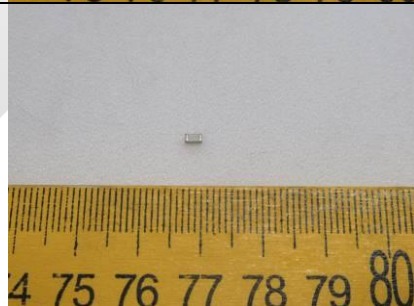
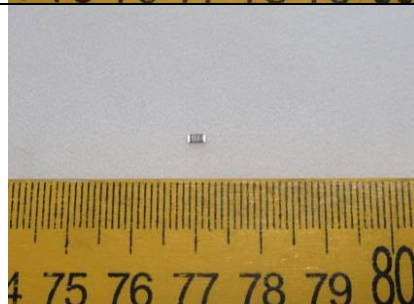
Sample No.	Description (Material, colour)	Photograph/Location
221	Black resistor	
222	Black plastic frame	
223	Pink and grey plastic harness	
224	Golden and silvery metal pin	
225	Silvery metal wire	

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Sample No.	Description (Material, colour)	Photograph/Location
226	Grey metal magnet frame	
227	Silvery metal pin	
228	Golden metal wire	
229	Grey capacitor	
230	Black resistor	



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Sample No.	Description (Material, colour)	Photograph/Location
231	Black resistor	
232	Golden copper alloy nut	
233	Black resistor	
234	Grey capacitor	
235	Black resistor	



Dated: 2026-04-23

2. TEST RESULT(S)

2.1 SCREENING TEST

Test method: With reference to EN 62321-1:2013, EN 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	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
01	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
02	BL	BL	BL	BL	BL	BL	BL	BL	BL
03	BL	BL	BL	BL	BL	BL	BL	BL	BL
04	BL	BL	BL	BL	BL	BL	BL	BL	BL
05	BL	BL	BL	Inc. ^(a)	NA	NA	NA	NA	NA
06	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
07	BL	BL	BL	BL	NA	NA	NA	NA	NA
08	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
09	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
10	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
11	BL	BL	BL	BL	NA	NA	NA	NA	NA
12	BL	BL	BL	BL	BL	BL	BL	BL	BL
13	BL	BL	BL	BL	NA	NA	NA	NA	NA
14	BL	BL	BL	BL	BL	BL	BL	BL	BL
15	BL	BL	BL	Inc. ^(a)	NA	NA	NA	NA	NA
16	BL	BL	BL	BL	NA	NA	NA	NA	NA
17	BL	BL	BL	BL	BL	BL	BL	BL	BL
18	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
19	BL	BL	BL	BL	NA	NA	NA	NA	NA
20	BL	BL	BL	BL	BL	BL	BL	BL	BL
21	BL	BL	BL	BL	BL	BL	BL	BL	BL
22	BL	BL	BL	BL	NA	NA	NA	NA	NA

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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
23	BL	BL	BL	BL	BL	BL	BL	BL	BL
24	BL	BL	BL	BL	BL	BL	BL	BL	BL
25	BL	BL ^(b)	BL	BL	BL	BL	BL	BL	BL
26	BL	BL	BL	BL	BL	BL	BL	BL	BL
27	BL	BL	BL	Inc. ^(a)	NA	NA	NA	NA	NA
28	BL	BL	BL	BL	BL	BL	BL	BL	BL
29	BL	BL	BL	BL	NA	NA	NA	NA	NA
30	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
31	BL	BL	BL	BL	NA	NA	NA	NA	NA
32	BL	BL	BL	BL	BL	BL	BL	BL	BL
33	BL	BL	BL	BL	BL	BL	BL	BL	BL
34	BL	BL	BL	BL	NA	NA	NA	NA	NA
35	BL	BL	BL	BL	NA	NA	NA	NA	NA
36	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
37	BL	BL	BL	BL	NA	NA	NA	NA	NA
38	BL	BL	BL	BL	BL	BL	BL	BL	BL
39	BL	BL	BL	BL	BL	BL	BL	BL	BL
40	BL	BL	BL	BL	BL	BL	BL	BL	BL
41	BL	BL	BL	BL	BL	BL	BL	BL	BL
42	BL	BL	BL	BL	BL	BL	BL	BL	BL
43	BL	BL	BL	BL	BL	BL	BL	BL	BL
44	BL	BL	BL	BL	BL	BL	BL	BL	BL
45	BL	BL ^(b)	BL	BL	BL	BL	BL	BL	BL
46	BL	BL ^(b)	BL	BL	BL	BL	BL	BL	BL
47	BL	BL ^(b)	BL	BL	BL	BL	BL	BL	BL

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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
48	BL	BL ^(b)	BL	BL	BL	BL	BL	BL	BL
49	BL	BL	BL	BL	NA	NA	NA	NA	NA
50	BL	BL	BL	BL	NA	NA	NA	NA	NA
51	BL	BL	BL	BL	BL	BL	BL	BL	BL
52	BL	BL	BL	BL	BL	BL	BL	BL	BL
53	BL	BL	BL	BL	NA	NA	NA	NA	NA
54	BL	BL ^(b)	BL	BL	BL	BL	BL	BL	BL
55	BL	BL	BL	BL	NA	NA	NA	NA	NA
56	BL	BL	BL	BL	BL	BL	BL	BL	BL
57	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
58	BL	BL	BL	BL	NA	NA	NA	NA	NA
59	BL	BL	BL	BL	BL	BL	BL	BL	BL
60	BL	BL	BL	BL	BL	BL	BL	BL	BL
61	BL	BL	BL	BL	NA	NA	NA	NA	NA
62	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
63	BL	BL	BL	BL	NA	NA	NA	NA	NA
64	BL	BL ^(b)	BL	BL	BL	BL	BL	BL	BL
65	BL	BL	BL	BL	BL	BL	BL	BL	BL
66	BL	BL	BL	BL	BL	BL	BL	BL	BL
67	BL	BL	BL	BL	NA	NA	NA	NA	NA
68	BL	BL	BL	BL	NA	NA	NA	NA	NA
69	BL	BL	BL	BL	NA	NA	NA	NA	NA
70	BL	BL	BL	BL	NA	NA	NA	NA	NA
71	BL	BL	BL	BL	NA	NA	NA	NA	NA
72	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL



Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
73	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
74	BL	BL	BL	BL	NA	NA	NA	NA	NA
75	BL	BL	BL	BL	NA	NA	NA	NA	NA
76	BL	BL	BL	BL	BL	BL	BL	BL	BL
77	BL	BL	BL	BL	NA	NA	NA	NA	NA
78	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
79	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
80	BL	BL	BL	BL	NA	NA	NA	NA	NA
81	BL	BL	BL	BL	BL	BL	BL	BL	BL
82	BL	BL	BL	BL	BL	BL	BL	BL	BL
83	BL	BL	BL	BL	BL	BL	BL	BL	BL
84	BL	BL ^(b)	BL	BL	BL	BL	BL	BL	BL
85	BL	BL	BL	BL	BL	BL	BL	BL	BL
86	BL	BL	BL	BL	NA	NA	NA	NA	NA
87	BL	BL	BL	BL	NA	NA	NA	NA	NA
88	BL	BL	BL	BL	BL	BL	BL	BL	BL
89	BL	BL	BL	BL	BL	BL	BL	BL	BL
90	BL	BL ^(b)	BL	BL	BL	BL	BL	BL	BL
91	BL	BL	BL	BL	BL	BL	BL	BL	BL
92	BL	BL	BL	BL	BL	BL	BL	BL	BL
93	BL	BL	BL	BL	BL	BL	BL	BL	BL
94	BL	BL	BL	BL	BL	BL	BL	BL	BL
95	BL	BL	BL	BL	NA	NA	NA	NA	NA
96	BL	BL	BL	BL	BL	BL	BL	BL	BL
97	BL	BL	BL	BL	NA	NA	NA	NA	NA

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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
98	BL	BL	BL	BL	NA	NA	NA	NA	NA
99	BL	BL	BL	BL	NA	NA	NA	NA	NA
100	BL	BL	BL	BL	BL	BL	BL	BL	BL
101	BL	BL	BL	BL	NA	NA	NA	NA	NA
102	BL	BL	BL	BL	BL	BL	BL	BL	BL
103	BL	BL	BL	BL	NA	NA	NA	NA	NA
104	BL	Inc. ^(a)	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	BL	BL	BL	BL	BL	BL	BL	BL
108	BL	BL	BL	BL	NA	NA	NA	NA	NA
109	BL	BL	BL	BL	BL	BL	BL	BL	BL
110	BL	BL	BL	BL	BL	BL	BL	BL	BL
111	BL	BL ^(b)	BL	BL	BL	BL	BL	BL	BL
112	BL	BL	BL	BL	BL	BL	BL	BL	BL
113	BL	BL	BL	BL	BL	BL	BL	BL	BL
114	BL	BL	BL	BL	NA	NA	NA	NA	NA
115	BL	BL	BL	BL	NA	NA	NA	NA	NA
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	Inc. ^(a)	BL	BL	BL	BL
119	BL	BL	BL	BL	NA	NA	NA	NA	NA
120	BL	BL	BL	BL	BL	BL	BL	BL	BL
121	BL	BL	BL	BL	BL	BL	BL	BL	BL
122	BL	BL	BL	BL	NA	NA	NA	NA	NA

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

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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
148	BL	BL	BL	BL	NA	NA	NA	NA	NA
149	BL	BL	BL	BL	BL	BL	BL	BL	BL
150	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
151	BL	BL	BL	BL	NA	NA	NA	NA	NA
152	BL	BL	BL	BL	BL	BL	BL	BL	BL
153	BL	BL	BL	BL	NA	NA	NA	NA	NA
154	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
155	BL	BL	BL	BL	BL	BL	BL	BL	BL
156	BL	BL	BL	BL	BL	BL	BL	BL	BL
157	BL	BL	BL	BL	BL	BL	BL	BL	BL
158	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL
159	BL	BL	BL	BL	NA	NA	NA	NA	NA
160	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
161	BL	BL	BL	BL	NA	NA	NA	NA	NA
162	BL	BL	BL	BL	BL	BL	BL	BL	BL
163	BL	BL	BL	BL	NA	NA	NA	NA	NA
164	BL	BL	BL	BL	NA	NA	NA	NA	NA
165	BL	BL	BL	BL	BL	BL	BL	BL	BL
166	BL	BL	BL	BL	BL	BL	BL	BL	BL
167	BL	BL	BL	BL	BL	BL	BL	BL	BL
168	BL	BL	BL	BL	BL	BL	BL	BL	BL
169	BL	BL	BL	BL	BL	BL	BL	BL	BL
170	BL	BL	BL	BL	BL	BL	BL	BL	BL
171	BL	BL	BL	BL	BL	BL	BL	BL	BL
172	BL	BL	BL	BL	BL	BL	BL	BL	BL

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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
173	BL	BL	BL	BL	BL	BL	BL	BL	BL
174	BL	BL	BL	BL	BL	BL	BL	BL	BL
175	BL	BL	BL	BL	BL	BL	BL	BL	BL
176	BL	BL	BL	BL	BL	BL	BL	BL	BL
177	BL	BL	BL	BL	BL	BL	BL	BL	BL
178	BL	BL	BL	BL	BL	BL	BL	BL	BL
179	BL	BL	BL	BL	BL	BL	BL	BL	BL
180	BL	BL	BL	BL	BL	BL	BL	BL	BL
181	BL	BL	BL	BL	BL	BL	BL	BL	BL
182	BL	BL	BL	BL	BL	BL	BL	BL	BL
183	BL	BL	BL	BL	NA	NA	NA	NA	NA
184	BL	BL	BL	BL	BL	BL	BL	BL	BL
185	BL	BL	BL	BL	BL	BL	BL	BL	BL
186	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
187	BL	BL	BL	BL	NA	NA	NA	NA	NA
188	BL	BL	BL	BL	BL	BL	BL	BL	BL
189	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
190	BL	BL	BL	BL	BL	BL	BL	BL	BL
191	BL	BL	BL	BL	NA	NA	NA	NA	NA
192	BL	BL	BL	BL	NA	NA	NA	NA	NA
193	BL	BL	BL	BL	BL	BL	BL	BL	BL
194	BL	BL	BL	BL	NA	NA	NA	NA	NA
195	BL	BL	BL	BL	BL	BL	BL	BL	BL
196	BL	BL	BL	BL	NA	NA	NA	NA	NA
197	BL	BL	BL	BL	NA	NA	NA	NA	NA



Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
198	BL	BL	BL	BL	BL	BL	BL	BL	BL
199	BL	BL	BL	BL	BL	BL	BL	BL	BL
200	BL	BL	BL	BL	BL	BL	BL	BL	BL
201	BL	BL	BL	BL	BL	BL	BL	BL	BL
202	BL	BL	BL	BL	BL	BL	BL	BL	BL
203	BL	BL	BL	BL	BL	BL	BL	BL	BL
204	BL	BL	BL	BL	BL	BL	BL	BL	BL
205	BL	BL	BL	BL	BL	BL	BL	BL	BL
206	BL	BL	BL	BL	BL	BL	BL	BL	BL
207	BL	BL	BL	BL	BL	BL	BL	BL	BL
208	BL	BL	BL	BL	BL	BL	BL	BL	BL
209	BL	BL	BL	BL	BL	BL	BL	BL	BL
210	BL	BL	BL	BL	BL	BL	BL	BL	BL
211	BL	BL	BL	BL	BL	BL	BL	BL	BL
212	BL	BL	BL	BL	BL	BL	BL	BL	BL
213	BL	BL	BL	BL	BL	BL	BL	BL	BL
214	BL	BL	BL	BL	BL	BL	BL	BL	BL
215	BL	BL	BL	BL	BL	BL	BL	BL	BL
216	BL	BL	BL	BL	BL	BL	BL	BL	BL
217	BL	BL	BL	BL	BL	BL	BL	BL	BL
218	BL	BL	BL	BL	BL	BL	BL	BL	BL
219	BL	BL	BL	BL	NA	NA	NA	NA	NA
220	BL	BL ^(b)	BL	BL	BL	BL	BL	BL	BL
221	BL	BL ^(b)	BL	BL	BL	BL	BL	BL	BL
222	BL	BL	BL	BL	Inc. ^(a)	BL	BL	BL	BL

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Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Pb	Hg	Cr	Br	DEHP	BBP	DBP	DIBP
223	BL	BL	BL	BL	BL	BL	BL	Inc. ^(a)	BL
224	BL	BL	BL	BL	NA	NA	NA	NA	NA
225	BL	BL	BL	BL	NA	NA	NA	NA	NA
226	BL	BL	BL	BL	NA	NA	NA	NA	NA
227	BL	BL	BL	BL	NA	NA	NA	NA	NA
228	BL	BL	BL	BL	NA	NA	NA	NA	NA
229	BL	BL	BL	BL	BL	BL	BL	BL	BL
230	BL	BL ^(b)	BL	BL	BL	BL	BL	BL	BL
231	BL	BL	BL	BL	BL	BL	BL	BL	BL
232	BL	Inc. ^(a)	BL	BL	NA	NA	NA	NA	NA
233	BL	BL	BL	BL	BL	BL	BL	BL	BL
234	BL	BL	BL	BL	BL	BL	BL	BL	BL
235	BL	BL	BL	BL	BL	BL	BL	BL	BL

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Dated: 2026-04-23

Remark:

- "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
- "(b)" denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 7(c)-I "Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound". The decision was based on the latest Exemptions list - validity and rolling plan August 2024 found under https://environment.ec.europa.eu/topics/waste-and-recycling/rohs-directive/implementation-rohs-directive_en on (please enter here the date of the test report and check the website for changes first). A final decision on the exemption could end the exemption within a certain period of time and require changes to the products tested

- 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	$X < 600$	$X \geq 600$

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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; 5.0 mg/kg or 0.10 µg/cm² for Hexavalent Chromium, 10.0 mg/kg for Lead and Mercury.]

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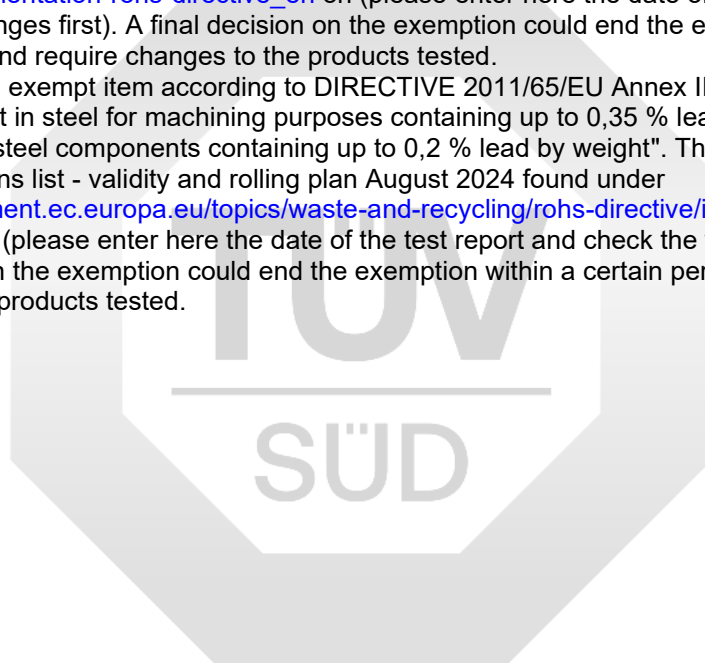
Sample No.	Result(s)				
	Total Cadmium	Hexavalent Chromium	Hexavalent Chromium	Total Mercury	Total Lead
05	--	/	Negative	--	--
06	--	--	--	--	29275 ^(c)
15	--	/	Negative	--	--
27	--	/	Negative	--	--
78	--	--	--	--	35896 ^(c)
104	--	--	--	--	32147 ^(c)
136	--	--	--	--	30628 ^(c)
137	--	/	Negative	--	--
138	--	/	Negative	--	--
139	--	--	--	--	27002 ^(c)
140	--	--	--	--	34491 ^(c)
141	--	/	Negative	--	--
145	--	--	--	--	2651 ^(d)
154	--	--	--	--	33088 ^(c)
160	--	--	--	--	28292 ^(c)
186	--	--	--	--	2633 ^(d)
189	--	--	--	--	33
232	--	--	--	--	33838 ^(c)
Unit	mg/kg	mg/kg	µg/cm²	mg/kg	mg/kg
RoHS Requirement	100	1000	Negative [#]	1000	1000

Dated: 2026-04-23

Remark:

- "mg/kg" denotes milligram per kilogram
- "µg/cm²" denotes micrograms per square centimeter
- "<" denotes less than
- "Positive" denotes the absorbance value of sample is > 0.13 µg/cm², the sample is considered to be positive for Hexavalent Chromium.
- "Inconclusive" denotes the absorbance value of sample is ≥ 0.10 µg/cm² and ≤ 0.13 µg/cm², the sample is considered to be Inconclusive for Hexavalent Chromium.
- "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
- "(c)" denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(c) "Copper alloy containing up to 4 % lead by weight". The decision was based on the latest Exemptions list - validity and rolling plan August 2024 found under https://environment.ec.europa.eu/topics/waste-and-recycling/rohs-directive/implementation-rohs-directive_en on (please enter here the date of the test report and check the website for changes first). A final decision on the exemption could end the exemption within a certain period of time and require changes to the products tested.
- "(d)" denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 6(a)-I "Lead as an alloying element in steel for machining purposes containing up to 0,35 % lead by weight and in batch hot dip galvanised steel components containing up to 0,2 % lead by weight". The decision was based on the latest Exemptions list - validity and rolling plan August 2024 found under https://environment.ec.europa.eu/topics/waste-and-recycling/rohs-directive/implementation-rohs-directive_en on (please enter here the date of the test report and check the website for changes first). A final decision on the exemption could end the exemption within a certain period of time and require changes to the products tested.

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

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

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Test Item		Result(s) [mg/kg]					RoHS Requirement [mg/kg]
		01	08	09	10	18	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	<5	-
	Sum of detected PBBs	<50	<50	<50	<50	<50	1000
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Sum of detected PBDEs	<50	<50	<50	<50	<50	1000



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Test Item		Result(s) [mg/kg]					RoHS Requirement [mg/kg]
		30	36	57	62	72	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	<5	-
	Sum of detected PBBs		<50	<50	<50	<50	<50
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Sum of detected PBDEs		<50	<50	<50	<50	<50

Test Item		Result(s) [mg/kg]					RoHS Requirement [mg/kg]
		73	79	118	125	127	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	<5	-
	Sum of detected PBBs		<50	<50	<50	<50	<50
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	<5	-
	Sum of detected PBDEs		<50	<50	<50	<50	<50



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Test Item		Result(s) [mg/kg]				RoHS Requirement [mg/kg]
		129	150	158	222	
PBBs	Monobromobiphenyl	<5	<5	<5	<5	-
	Dibromobiphenyl	<5	<5	<5	<5	-
	Tribromobiphenyl	<5	<5	<5	<5	-
	Tetrabromobiphenyl	<5	<5	<5	<5	-
	Pentabromobiphenyl	<5	<5	<5	<5	-
	Hexabromobiphenyl	<5	<5	<5	<5	-
	Heptabromobiphenyl	<5	<5	<5	<5	-
	Octabromobiphenyl	<5	<5	<5	<5	-
	Nonabromobiphenyl	<5	<5	<5	<5	-
	Decabromobiphenyl	<5	<5	<5	<5	-
	Sum of detected PBBs	<50	<50	<50	<50	1000
PBDEs	Monobromodiphenyl ether	<5	<5	<5	<5	-
	Dibromodiphenyl ether	<5	<5	<5	<5	-
	Tribromodiphenyl ether	<5	<5	<5	<5	-
	Tetrabromodiphenyl ether	<5	<5	<5	<5	-
	Pentabromodiphenyl ether	<5	<5	<5	<5	-
	Hexabromodiphenyl ether	<5	<5	<5	<5	-
	Heptabromodiphenyl ether	<5	<5	<5	<5	-
	Octabromodiphenyl ether	<5	<5	<5	<5	-
	Nonabromodiphenyl ether	<5	<5	<5	<5	-
	Decabromodiphenyl ether	<5	<5	<5	<5	-
	Sum of detected PBDEs	<50	<50	<50	<50	1000

Remark:

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



Dated: 2026-04-23

2.4 Phthalates (DEHP, BBP, DBP and DIBP)

Test Method: with reference to EN 62321-8:2017, extracted by organic solvent and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Test Item	CAS No.	Result [mg/kg]
		223
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	<50
Dibutyl phthalate, (DBP)	84-74-2	718
Benzyl butyl phthalate, (BBP)	85-68-7	<50
Diisobutylphthalate, (DIBP)	84-69-5	<50
RoHS Requirement		Each < 1000mg/kg

Remark:



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



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APPENDIX I: Product Model

Product: Safety programmable controller	Test model: SPC-1000, SPC-SIO8, SPC-SIO12
	

Remark:

- The report covers material testing on specified samples.

--END OF REPORT--



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