

Report No. 48.400.21.7153.00-00/02

Dated 2021-03-12

## Technical Report

**Applicant:** Jiangsu Midea Cleaning Appliances Co., Ltd.  
No.39 Caohu Avenue, Xiangcheng Economic Development Zone, Suzhou,  
Jiangsu, China

**Attn. to:** Mr. YAN

**Manufacture:** Same as the above.

**Test object:** The tested object(s) was(were) submitted and described by client as:  
Product Name: Vacuum Cleaner  
Product Model: M7



Additional models information, please refer to Appendix I.

**Test specification:** 2011/65/EU (RoHS) Directive and its Annex II amending directive  
2015/863/EU

Test with reference to EN 62321-1:2013, EN 62321-2:2014, EN 62321-3-1:2014,  
EN 62321-4:2014, EN 62321-5:2014, EN 62321-6:2015, EN 62321-7-1:2015; EN  
62321-7-2:2017 and EN 62321-8:2017.

**Test result:** Refer to the data listed in following pages

**Conclusion:** With regard to the data of tested components, the requirements **PASS**  
of RoHS Directive 2011/65/EU and 2015/863/EU.

**Remarks:**

1. The result relates only to the items tested.
2. Samples were tested as received.
3. The tested components were as the request by applicant.

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China

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Dated 2021-03-12

1. Order

1.1 Date of Purchase Order  
2021-02-22

1.2 Customer's Reference  
Nil

1.3 Receipt Date of Test Sample  
2021-02-22

1.4 Date of Testing  
2021-02-22 ~ 2021-03-08

1.5 Document submitted  
Nil

1.6 Location of Testing  
TÜV SÜD Certification and Testing (China) Co., Ltd.  
TÜV SÜD SHA Chemical Lab



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2. Description of the tested specimen

Sample No.	Description	Photograph/Location
1	White hard plastic shell	
2	Black hard plastic shell	
3	White hard plastic shell	
4	Black hard plastic shell	
5	Black soft plastic cushion	

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Sample No.	Description	Photograph/Location
6	Black soft plastic label	
7	Black hard plastic plug	
8	Silvery metal pin	
9	Black soft plastic wire jacket	
10	Blue soft plastic jacket	

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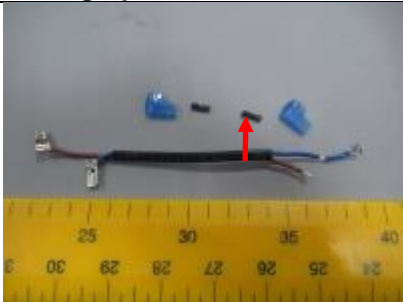


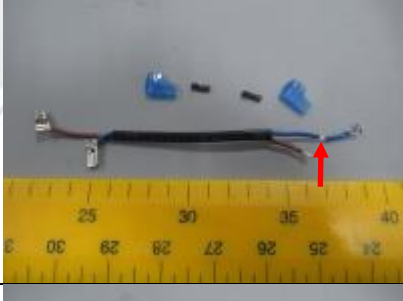

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Sample No.	Description	Photograph/Location
11	Black soft plastic tube	
12	Blue soft plastic wire jacket	
13	Dark red soft plastic wire jacket	
14	Golden metal wire	
15	Silvery metal plug	

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Sample No.	Description	Photograph/Location
16	White soft plastic tape	
17	Black soft plastic wire jacket	
18	Red soft plastic wire jacket	
19	Beige hard plastic plug	
20	Silvery metal piece	

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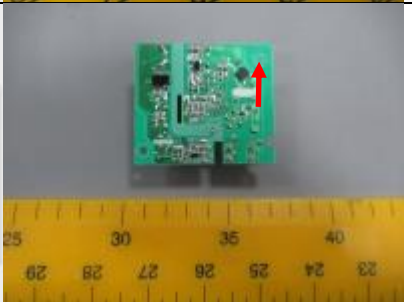
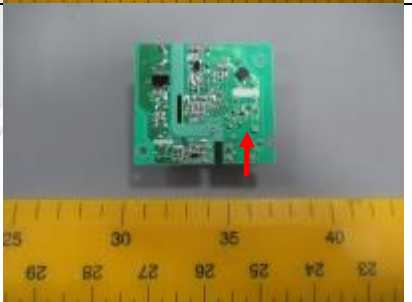
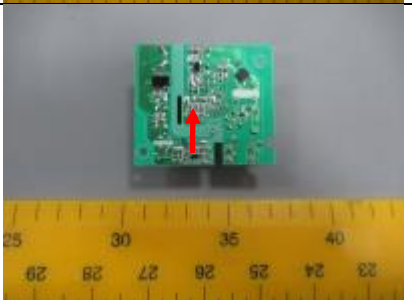
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Sample No.	Description	Photograph/Location
21	Silvery metal solder	
22	Silvery metal wire	
23	Green PCB	
24	Silvery metal solder	
25	Silvery metal solder	

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Sample No.	Description	Photograph/Location
26	Silvery metal solder	
27	Black hard IC	
28	Black hard dioder	
29	Black hard resistor	
30	Browb hard capacitor	

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Sample No.	Description	Photograph/Location
31	Green plastic gasket	
32	Silvery metal shell	
33	Black soft plastic cushion	
34	Grey film paper	
35	Dark red hard plastic shell	

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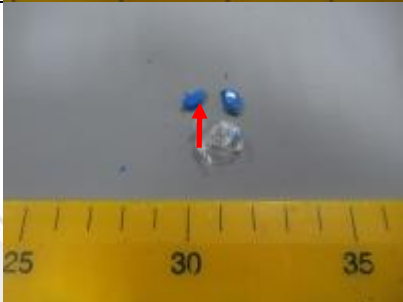
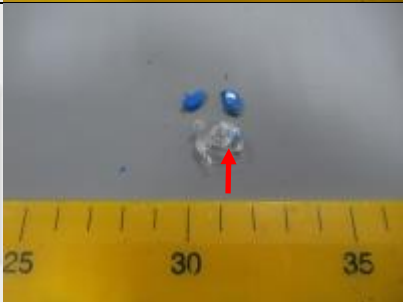


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Sample No.	Description	Photograph/Location
36	Black hard plastic base	
37	Blue capacitor	
38	Transparent soft plastic shell	
39	Yellow hard plastic shell	
40	Yellow hard plastic resin	

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Sample No.	Description	Photograph/Location
41	Silvery soft palstic silm	
42	Yellow soft plastic tape	
43	White soft plastic glue	
44	Black hard plastic frame	
45	Yellow soft plastic wire jacket	

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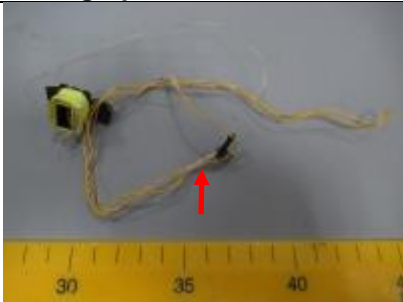

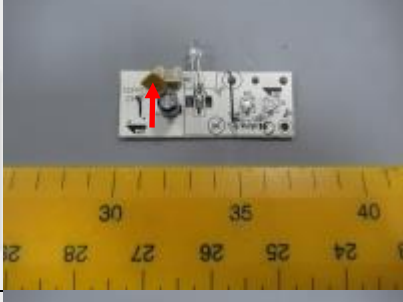
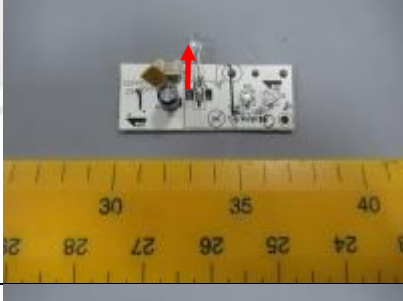
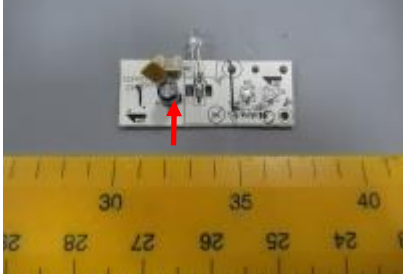
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Sample No.	Description	Photograph/Location
46	Translucent soft plastic tube	
47	Golden metal wire	
48	Yellow hard resistor	
49	Transparent plastic LED	
50	Black soft plastic jacket	

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Sample No.	Description	Photograph/Location
51	Green PCB	
52	Silvery metal solder	
53	Black hard IC	
54	Black hard triode	
55	White soft plastic plug	

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Sample No.	Description	Photograph/Location
56	Silvery metal screw	
57	Black metal screw	
58	Silvery metal screw	
59	Black soft plastic wire jacket	
60	Black soft plastic plug	

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Sample No.	Description	Photograph/Location
61	Black hard plastic	
62	Silvery copper alloy pin	
63	Blue soft plastic wire jakcet	
64	Brown soft plastic wire jacket	
65	Golden metal wire	

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Sample No.	Description	Photograph/Location
66	Grey hard plastic frame	
67	White hard plastic enclosure	
68	Transparent soft plastic brush	
69	Yellow hard plastic frame	
70	Blue hard plastic frame	

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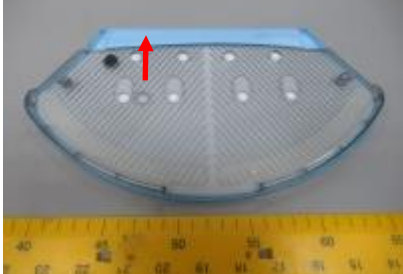
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Sample No.	Description	Photograph/Location
71	Black soft plastic jacket	
72	Grey soft plastic brush	
73	Blue fabric wire	
74	Light blue fabric wire	
75	Blue fabric cloth	

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Sample No.	Description	Photograph/Location
76	Transparent grey hard plastic board	
77	White soft plastic tape	
78	White fabric cloth	
79	Black hard plastic shell	
80	White hard plastic resin	

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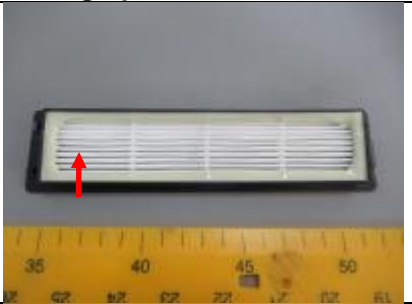


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Sample No.	Description	Photograph/Location
81	White soft plastic paper	
82	White hard plastic frame	
83	White soft plastic cover	
84	Black hard plastic component	
85	Black soft plastic gasket	

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Sample No.	Description	Photograph/Location
86	Black soft plastic tube	
87	Grey hard plastic button	
88	Transparent grey hard plastic box	
89	Transparent grey hard plastic box	
90	Transparent soft plastic film	

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Sample No.	Description	Photograph/Location
91	Red hard plastic hard plastic button	
92	Grey hard plastic button	
93	Black sponge cushion	
94	White soft plastic net	
95	Transparent hard plastic frame	

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Sample No.	Description	Photograph/Location
96	Black hard plastic board	
97	Black paper label	
98	Black soft plastic strip	
99	Black hard plastic frame	
100	White hard plastic shell	

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Sample No.	Description	Photograph/Location
101	Gery soft plastic cushion	
102	Black hard plastic window	
103	Black hard plastic component	
104	Green hard PCB	
105	Beige hard plastic plug	

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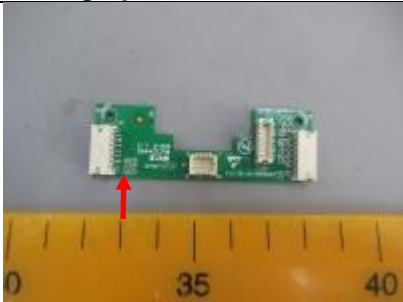
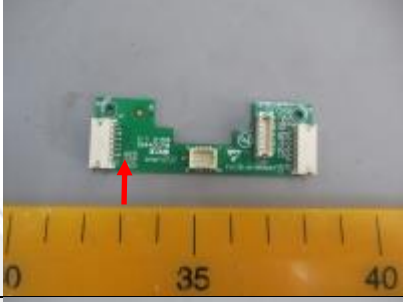

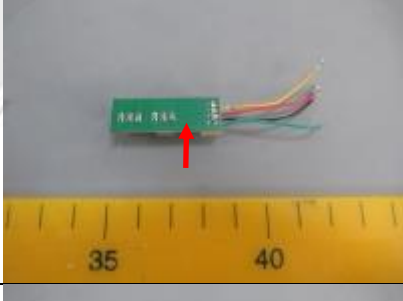

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Sample No.	Description	Photograph/Location
106	Brown capacitor	
107	Black resistor	
108	Black hard plastic shell	
109	Green PCB	
110	Silvery metal solder	

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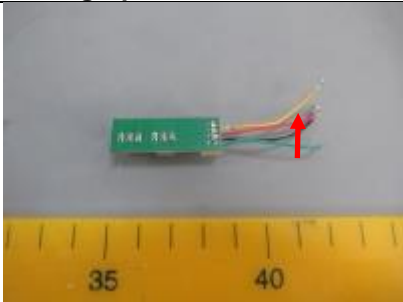
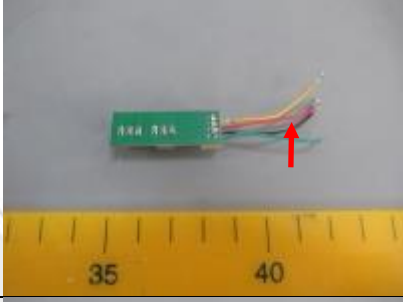
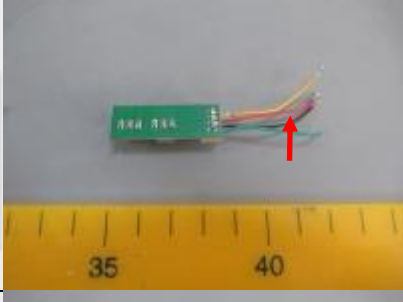
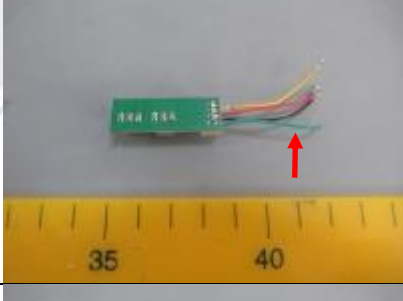

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Sample No.	Description	Photograph/Location
111	Yellow soft plastic wire jacket	
112	Red soft plastic wire jacket	
113	Black soft plastic wire jacket	
114	Green soft plastic wire jacket	
115	Silvery metal wire	

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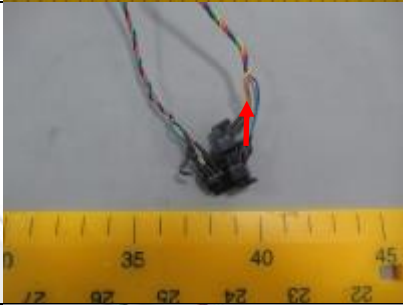



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Sample No.	Description	Photograph/Location
116	Black hard plastic shell	
117	Red soft plastic wire jacket	
118	Yellow soft plastic wire jacket	
119	Green soft plastic wire jacket	
120	Purple soft plastic wire jacket	

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Sample No.	Description	Photograph/Location
121	Black soft plastic wire jacket	
122	Black soft plastic heat-shrinkable tubing	
123	Silvery hard plastic strip	
124	Black sponge cushion	
125	Black soft plastic net	

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Sample No.	Description	Photograph/Location
126	Grey soft plastic button	
127	Transparent hard LED	
128	Grey soft plastic plug	
129	White soft plastic button	
130	Silvery metal spring	

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Sample No.	Description	Photograph/Location
131	Black hard plastic frame	
132	Black soft plastic wire jacket	
133	Green hard PCB	
134	Silvery metal solder	
135	Black hard plastic button	

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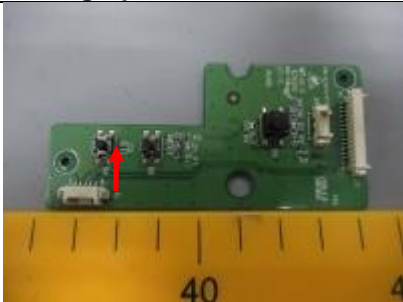
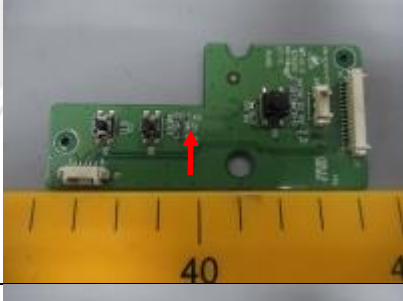
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Sample No.	Description	Photograph/Location
136	Silvery metal piece	
137	Black resistor	
138	Brown capacitor	
139	White diode	
140	Black hard plastic shell	

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Sample No.	Description	Photograph/Location
141	Beige hard plastic socket	
142	Green hard PCB	
143	Yellow diode	
144	Black hard plastic shell	
145	Transparent soft plastic ring	

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Sample No.	Description	Photograph/Location
146	Black hard PCB	
147	Silvery metal solder	
148	Green paper label	
149	White paper label	
150	Black hard IC	

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Sample No.	Description	Photograph/Location
151	Brwon capacitor	
152	Black resistor	
153	Black triode	
154	Silvery metal shell	
155	Black metal wheel	

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Sample No.	Description	Photograph/Location
156	Silvery metal sheet steel	
157	Golden metal wire	
158	Silvery metal pole	
159	Black metal ring	
160	Red soft plastic gasket	

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Sample No.	Description	Photograph/Location
161	Golden metal piece	
162	White hard plastic shell	
163	White soft plastic washer	
164	Silvery metal solder	
165	Black metal magnet ring	

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Sample No.	Description	Photograph/Location
166	Golden metal ring	
167	Black soft plastic heat-shrinkable tubing	
168	Red soft plastic wire jacket	
169	Black soft plastic wire jacket	
170	Black hard plastic frame	

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Sample No.	Description	Photograph/Location
171	Black hard PCB	
172	Brown capacitor	
173	Silvery crystal oscillator	
174	Black hard IC	
175	Beige hard plastic socket	

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Sample No.	Description	Photograph/Location
176	Black resistor	
177	Black hard PCB	
178	Silvery metal solder	
179	Black diode	
180	Brown capacitor	

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Sample No.	Description	Photograph/Location
181	White diode	
182	Black triode	
183	Silvery metal solder	
184	Green soft plastic wire jakcet	
185	Red soft plastic wire jakcet	

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Sample No.	Description	Photograph/Location
186	White soft plastic wire jakcet	
187	Yellow soft plastic wire jakcet	
188	Black soft plastic wire jakcet	
189	Black hard plastic frame	
190	Golden metal wire	

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Sample No.	Description	Photograph/Location
191	Black hard plastic shell	
192	Silvery metal bearing ring	
193	Silvery metal bearing cover	
194	Silvery metal frame	
195	Silvery metal ball	

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Sample No.	Description	Photograph/Location
196	Silvery metal shell	
197	Black soft plastic wire jacket	
198	Red soft plastic wire jacket	
199	Yellow soft plastic wire jacket	
200	Black soft plastic heat-shrinkable tubing	

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Sample No.	Description	Photograph/Location
201	Golden copper alloy component	
202	Transparent glass	
203	Black hard plastic shell	
204	White hard plastic gear	
205	Black hard plastic component	

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Sample No.	Description	Photograph/Location
206	White resin	
207	Golden copper alloy ring	
208	Grey soft plastic wheel	
209	Black hard plastic wheel	
210	Black hard plastic shell	

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Sample No.	Description	Photograph/Location
211	Silvery metal wire	
212	Silvery metal solder	
213	Silvery metal shell	
214	White hard plastic frame	
215	Black hard plastic frame	

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Sample No.	Description	Photograph/Location
216	Black soft plastic wire jacket	
217	Silvery metal solder	
218	Black metal magnet ring	
219	Silvery metal ring	
220	Silvery metal pole	

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Sample No.	Description	Photograph/Location
221	Golden copper alloy gear	
222	Black metal ring	
223	Silvery grey metal sheet steel	
224	Golden metal wire	
225	Silvery metal solder	

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Sample No.	Description	Photograph/Location
226	Golden metal piece	
227	Beige hard plastic frame	
228	Yellow capacitor	
229	Golden metal wafer	
230	Coppery metal wafer	

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Sample No.	Description	Photograph/Location
231	Black metal carbon brush	
232	Black soft plastic wire jacket	
233	Red soft plastic wire jacket	
234	Black soft plastic heat-shrinkable tubing	
235	Black hard plastic shell	

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Sample No.	Description	Photograph/Location
236	Blue hard plastic gear	
237	White hard plastic gear	
238	Yellow hard plastic gear	
239	Silvery metal spring	
240	Transparent soft plastic tube	

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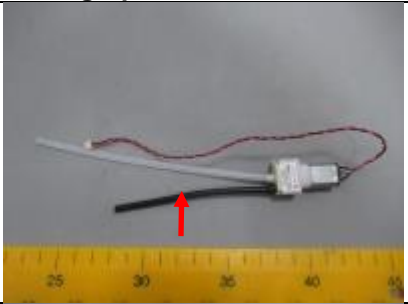
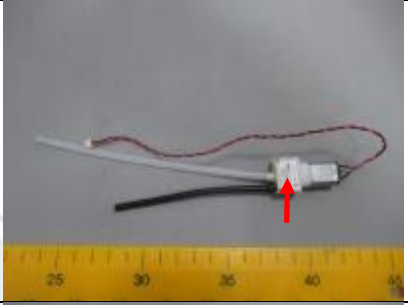



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Sample No.	Description	Photograph/Location
241	Black soft plastic tube	
242	White paper label	
243	White hard plastic shell	
244	Beige hard plastic shell	
245	Black soft plastic cushion	

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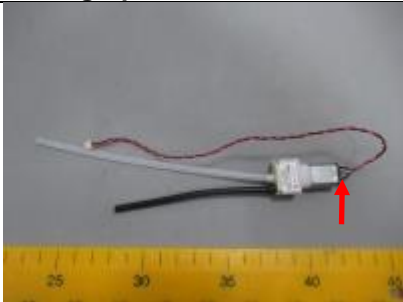


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Sample No.	Description	Photograph/Location
246	Black soft plastic heat-shrinkable tubing	
247	Black soft plastic wire jacket	
248	Red soft plastic wire jacket	
249	Black hard plastic shell	
250	Red soft plastic wire jacket	

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Sample No.	Description	Photograph/Location
251	Yellow soft plastic wire jacket	
252	Red soft plastic wire jacket	
253	Beige hard plastic plug	
254	Black hard plastic component	
255	Black hard plastic shell	

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Sample No.	Description	Photograph/Location
256	Silvery metal shell	
257	Black hard plastic component	
258	Red soft plastic wire jacket	
259	Green soft plastic wire jacket	
260	Black soft plastic wire jacket	

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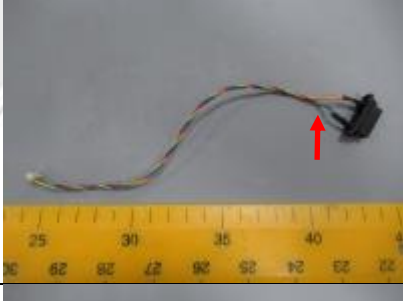

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Sample No.	Description	Photograph/Location
261	Black hard plastic shell	
262	Yellow soft plastic wire jacket	
263	Red soft plastic wire jacket	
264	Green soft plastic wire jacket	
265	Purple soft plastic wire jacket	

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Sample No.	Description	Photograph/Location
266	Black hard LED	
267	Transparent hard LED	
268	White hard plastic shell	
269	Black soft plastic wire jacket	
270	Black hard plastic shell	

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Sample No.	Description	Photograph/Location
271	Black soft plastic film	
272	Black sponge cushion	
273	Silvery metal frame	
274	Golden metal ring	
275	Black soft plastic resin	

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Sample No.	Description	Photograph/Location
276	Green hard PCB	
277	Black soft plastic wire jacket	
278	Red soft plastic wire jacket	
279	Green hard PCB	
280	Silvery metal solder	

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Sample No.	Description	Photograph/Location
281	Golden copper alloy plug	
282	Beige hard plastic socket	
283	Silvery metal shell	
284	Black inductance	
285	Black hard IC	

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Sample No.	Description	Photograph/Location
286	Black hard IC	
287	Black hard IC	
288	Black triode	
289	Black inductance	
290	Black resistor	

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Sample No.	Description	Photograph/Location
291	Brown capacitor	
292	Green hard PCB	
293	Black soft plastic wire jacket	
294	Beige hard plastic plug	
295	Black hard IC	

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Sample No.	Description	Photograph/Location
296	Brown hard plastic frame	
297	Green hard PCB	
298	Black hard IC	
299	Black hard IC	
300	Brown capacitor	

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Sample No.	Description	Photograph/Location
301	Black resistor	
302	Grey diode	
303	Black triode	
304	Silvery metal capacitor shell	
305	Black hard plastic capacitor base	

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Sample No.	Description	Photograph/Location
306	Black hard IC	
307	Black hard IC	
308	Black inductance	
309	Golden metal wire	
310	Black hard plastic frame	

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Sample No.	Description	Photograph/Location
311	Silvery metal frame	
312	Blue and red soft plastic brush	
313	Black soft plastic brush	
314	Grey hard plastic frame	
315	Silvery metal component	

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Sample No.	Description	Photograph/Location
316	Black sponge cushion	
317	Black hard plastic shell	
318	Black soft plastic heat-shrinkable tubing	
319	Black soft plastic wire jacket	
320	White soft plastic wire jakcet	

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Sample No.	Description	Photograph/Location
321	White hard plastic shell	
322	Golden metal copper alloy	
323	Black soft plastic belt	
324	Silvery grey metal component	
325	Grey metal gear	

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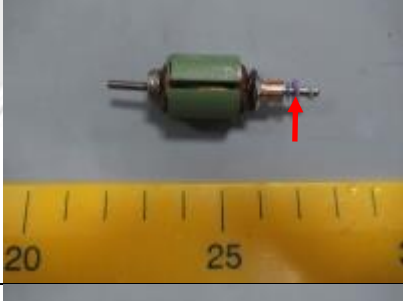

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Sample No.	Description	Photograph/Location
326	Silvery metal pin	
327	Silvery metal sheet steel	
328	White soft plastic gasket	
329	Purple soft plastic gasket	
330	Blue soft plastic gasket	

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Sample No.	Description	Photograph/Location
331	Golden metal piece	
332	Silvery metal solder	
333	Golden metal wire	
334	Silvery metal pole	
335	Yellow capacitor	

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Sample No.	Description	Photograph/Location
336	Golden metal piece	
337	Silvery metal carbon brush	
338	Black hard plastic component	
339	Silvery metal spring	
340	Silvery metal piece	

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Sample No.	Description	Photograph/Location
341	Silvery metal lump	
342	Black hard plastic shell	
343	Silvery metal pole	
344	Black hard plastic component	
345	Silvery metal wafer	

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Sample No.	Description	Photograph/Location
346	Red soft plastic wire jacket	
347	Black soft plastic wire jacket	
348	Beige hard plastic plug	
349	Black hard plastic shell	
350	Black soft plastic ring	

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Sample No.	Description	Photograph/Location
351	Black soft plastic rframe	
352	Black hard plastic shell	
353	Silvery grey metal shell	
354	Black soft plastic cushion	
355	Black soft plastic ring	

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Sample No.	Description	Photograph/Location
356	Black magnet ring	
357	Silvery metal fan	
358	Green hard PCB	
359	Silvery metal bearing cover	
360	Golden metal wire	

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Sample No.	Description	Photograph/Location
361	Black hard IC	
362	White hard plastic socket	
363	Silvery metal piece	
364	Golden metal ring	
365	Black soft plastic wire jacket	

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Tel.: +86-21-60376368

Report No. 48.400.21.7153.00-00/02

Dated 2021-03-12

China

Sample No.	Description	Photograph/Location
366	Silvery metal screw	
367	Black metal screw	
368	Silvery metal screw	

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China

Report No. 48.400.21.7153.00-00/02

Dated 2021-03-12

### 3. Test Results

#### 3.1 ED-XRF Spectrometer test for total Cadmium, Chromium, Mercury, Lead and Bromine according to EN 62321-3-1:2014

##### Criteria of XRF test results

##### Pass:

Because of the nature of the testing procedure (caused by the uncertainty of the used, XRF method), a definite pass is given only if the XRF test score is below the respective RoHS limit.

##### Inconclusive:

If the XRF test score is inconclusive of the respective RoHS limit, further chemical test on the sample is required.

##### Fail:

A definite FAIL is given if the XRF test score is over respective RoHS Limit

##### \*Explanation for RoHS limit

Regarding Chromium and Bromine, the XRF test score shows the total Chromium and the total Bromine, but the RoHS limit of 1000 mg/kg, according to the directive 2011/65/EU, is only for Hexavalent Chromium and Brominated Flame Retardants. Therefore, if the XRF test result for the total Chromium and the total Bromine is inconclusive, further analytical tests are necessary to find out the exact amount of Hexavalent Chromium and Brominated Flame Retardants

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

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

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

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

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Report No. 48.400.21.7153.00-00/02

Dated 2021-03-12

China

Compounds	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Total Chromium [mg/kg]	Total Bromine [mg/kg]	RESULT
<b>RoHS Limit</b>	<b>100</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>	
1	BL	BL	BL	BL	BL	Pass
2	BL	BL	BL	BL	BL	Pass
3	BL	BL	BL	BL	BL	Pass
4	BL	BL	BL	BL	BL	Pass
5	BL	BL	BL	BL	BL	Pass
6	BL	BL	BL	BL	BL	Pass
7	BL	BL	BL	BL	BL	Pass
8	BL	BL	BL	BL	BL	Pass
9	BL	BL	BL	BL	BL	Pass
10	BL	BL	BL	BL	BL	Pass
11	BL	BL	BL	BL	BL	Pass
12	BL	BL	BL	BL	BL	Pass
13	BL	BL	BL	BL	BL	Pass
14	BL	BL	BL	BL	BL	Pass
15	BL	BL	BL	BL	--	Pass
16	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
17	BL	BL	BL	BL	BL	Pass
18	BL	BL	BL	BL	--	Pass
19	BL	BL	BL	BL	BL	Pass
20	BL	BL	BL	BL	BL	Pass
21	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
22	BL	BL	BL	BL	BL	Pass
23	BL	BL	BL	BL	BL	Pass
24	BL	BL	BL	BL	BL	Pass
25	BL	BL	BL	BL	BL	Pass

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Compounds	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Total Chromium [mg/kg]	Total Bromine [mg/kg]	RESULT
RoHS Limit	100	1000	1000	1000	1000	
26	BL	BL	BL	BL	BL	Pass
27	BL	BL	BL	BL	--	Pass
28	BL	BL	BL	BL	BL	Pass
29	BL	BL	BL	BL	BL	Pass
30	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
31	BL	BL	BL	BL	BL	Pass
32	BL	BL	BL	BL	BL	Pass
33	BL	BL	BL	BL	--	Pass
34	BL	BL	BL	BL	--	Pass
35	BL	BL	BL	BL	BL	Pass
36	BL	BL	BL	BL	BL	Pass
37	BL	BL	BL	BL	BL	Pass
38	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
39	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
40	BL	BL	BL	BL	--	Pass
41	BL	BL	BL	BL	--	Pass
42	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
43	BL	BL	BL	BL	--	Pass
44	BL	BL	BL	BL	--	Pass
45	BL	BL	BL	BL	BL	Pass
46	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
47	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
48	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
49	BL	BL	BL	BL	BL	Pass
50	BL	BL	BL	BL	BL	Pass

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RoHS Limit	100	1000	1000	1000	1000	
51	BL	BL	BL	BL	--	Pass
52	BL	BL	BL	BL	BL	Pass
53	BL	BL	BL	BL	BL	Pass
54	BL	BL	BL	BL	BL	Pass
55	BL	BL	BL	BL	BL	Pass
56	BL	BL	BL	BL	BL	Pass
57	BL	BL	BL	BL	BL	Pass
58	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
59	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
60	BL	BL	BL	BL	BL	Pass
61	BL	BL	BL	BL	BL	Pass
62	BL	BL	BL	BL	BL	Pass
63	BL	BL	BL	BL	BL	Pass
64	BL	BL	BL	BL	BL	Pass
65	BL	BL	BL	BL	BL	Pass
66	BL	BL	BL	BL	--	Pass
67	BL	BL	BL	BL	BL	Pass
68	BL	BL	BL	BL	BL	Pass
69	BL	BL	BL	BL	BL	Pass
70	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
71	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
72	BL	BL	BL	BL	BL	Pass
73	BL	BL	BL	BL	BL	Pass
74	BL	BL	BL	BL	BL	Pass
75	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive

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Compounds	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Total Chromium [mg/kg]	Total Bromine [mg/kg]	RESULT
RoHS Limit	100	1000	1000	1000	1000	
76	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
77	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
78	BL	BL	BL	BL	BL	Pass
79	BL	BL	BL	BL	BL	Pass
80	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
81	BL	*INC <sup>(a)</sup>	BL	BL	--	Inconclusive
82	BL	BL	BL	BL	BL	Pass
83	BL	BL	BL	BL	BL	Pass
84	BL	BL	BL	BL	--	Pass
85	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
86	BL	BL	BL	BL	BL	Pass
87	BL	BL	BL	BL	BL	Pass
88	BL	BL	BL	BL	BL	Pass
89	BL	BL	BL	BL	BL	Pass
90	BL	BL	BL	BL	BL	Pass
91	BL	BL	BL	BL	BL	Pass
92	BL	BL	BL	BL	BL	Pass
93	BL	BL	BL	BL	BL	Pass
94	BL	BL	BL	BL	BL	Pass
95	BL	BL	BL	BL	BL	Pass
96	BL	BL	BL	BL	BL	Pass
97	BL	BL	BL	BL	BL	Pass
98	BL	BL	BL	BL	BL	Pass
99	BL	BL	BL	BL	BL	Pass
100	BL	BL	BL	BL	BL	Pass

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Compounds	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Total Chromium [mg/kg]	Total Bromine [mg/kg]	RESULT
RoHS Limit	100	1000	1000	1000	1000	
101	BL	BL	BL	BL	BL	Pass
102	BL	BL	BL	BL	BL	Pass
103	BL	BL	BL	BL	BL	Pass
104	BL	BL	BL	BL	BL	Pass
105	BL	BL	BL	BL	BL	Pass
106	BL	BL	BL	BL	BL	Pass
107	BL	BL	BL	BL	BL	Pass
108	BL	BL	BL	BL	BL	Pass
109	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
110	BL	BL	BL	BL	BL	Pass
111	BL	BL	BL	BL	BL	Pass
112	BL	BL	BL	BL	BL	Pass
113	BL	BL	BL	BL	BL	Pass
114	BL	BL	BL	BL	BL	Pass
115	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
116	BL	BL	BL	BL	BL	Pass
117	BL	BL	BL	BL	BL	Pass
118	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
119	BL	BL	BL	BL	BL	Pass
120	BL	BL	BL	BL	BL	Pass
121	BL	BL	BL	BL	BL	Pass
122	BL	BL	BL	BL	BL	Pass
123	BL	BL	BL	BL	BL	Pass
124	BL	BL	BL	BL	--	Pass
125	BL	BL	BL	BL	--	Pass

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Compounds	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Total Chromium [mg/kg]	Total Bromine [mg/kg]	RESULT
RoHS Limit	100	1000	1000	1000	1000	
126	BL	BL	BL	BL	BL	Pass
127	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
128	BL	BL	BL	BL	--	Pass
129	BL	BL	BL	BL	--	Pass
130	BL	BL	BL	BL	BL	Pass
131	BL	BL	BL	BL	BL	Pass
132	BL	BL	BL	BL	BL	Pass
133	BL	BL	BL	BL	BL	Pass
134	BL	BL	BL	BL	BL	Pass
135	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
136	BL	BL	BL	BL	BL	Pass
137	BL	BL	BL	BL	BL	Pass
138	BL	BL	BL	BL	BL	Pass
139	BL	BL	BL	BL	BL	Pass
140	BL	BL	BL	BL	BL	Pass
141	BL	BL	BL	BL	BL	Pass
142	BL	BL	BL	BL	BL	Pass
143	BL	BL	BL	BL	BL	Pass
144	BL	BL	BL	BL	BL	Pass
145	BL	BL	BL	BL	BL	Pass
146	BL	BL	BL	BL	BL	Pass
147	BL	BL	BL	BL	BL	Pass
148	BL	BL	BL	BL	BL	Pass
149	BL	BL	BL	BL	BL	Pass
150	BL	BL	BL	BL	--	Pass

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RoHS Limit	100	1000	1000	1000	1000	
151	BL	BL	BL	BL	BL	Pass
152	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
153	BL	BL	BL	BL	BL	Pass
154	BL	BL	BL	BL	BL	Pass
155	BL	BL	BL	BL	BL	Pass
156	BL	BL	BL	BL	BL	Pass
157	BL	BL	BL	BL	--	Pass
158	BL	BL	BL	BL	BL	Pass
159	BL	BL	BL	BL	BL	Pass
160	BL	BL	BL	BL	BL	Pass
161	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
162	BL	BL	BL	BL	BL	Pass
163	BL	BL	BL	BL	BL	Pass
164	BL	BL	BL	BL	BL	Pass
165	BL	BL	BL	BL	BL	Pass
166	BL	BL	BL	BL	--	Pass
167	BL	BL	BL	BL	BL	Pass
168	BL	BL	BL	BL	BL	Pass
169	BL	BL	BL	BL	BL	Pass
170	BL	BL	BL	BL	BL	Pass
171	BL	BL	BL	BL	BL	Pass
172	BL	BL	BL	BL	--	Pass
173	BL	BL	BL	BL	--	Pass
174	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
175	BL	BL	BL	BL	--	Pass

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RoHS Limit	100	1000	1000	1000	1000	
176	BL	BL	BL	BL	--	Pass
177	BL	BL	BL	BL	BL	Pass
178	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
179	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
180	BL	BL	BL	BL	BL	Pass
181	BL	BL	BL	BL	BL	Pass
182	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
183	BL	BL	BL	BL	BL	Pass
184	BL	BL	BL	BL	BL	Pass
185	BL	BL	BL	BL	BL	Pass
186	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
187	BL	BL	BL	BL	--	Pass
188	BL	BL	BL	BL	--	Pass
189	BL	*INC <sup>(a)</sup>	BL	BL	--	Inconclusive
190	BL	BL	BL	BL	BL	Pass
191	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
192	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
193	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
194	BL	BL	BL	BL	BL	Pass
195	BL	BL	BL	BL	--	Pass
196	BL	BL	BL	BL	--	Pass
197	BL	BL	BL	BL	--	Pass
198	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
199	BL	BL	BL	BL	--	Pass
200	BL	BL	BL	BL	--	Pass

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RoHS Limit	100	1000	1000	1000	1000	
201	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
202	BL	BL	BL	BL	--	Pass
203	BL	BL	BL	BL	--	Pass
204	BL	BL	BL	BL	--	Pass
205	BL	BL	BL	BL	--	Pass
206	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
207	BL	BL	BL	BL	BL	Pass
208	BL	BL	BL	BL	BL	Pass
209	BL	BL	BL	BL	BL	Pass
210	BL	BL	BL	BL	BL	Pass
211	BL	BL	BL	BL	BL	Pass
212	BL	BL	BL	BL	BL	Pass
213	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
214	BL	BL	BL	BL	--	Pass
215	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
216	BL	BL	BL	BL	BL	Pass
217	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
218	BL	BL	BL	BL	BL	Pass
219	BL	*** --	BL	BL	BL	Pass
220	BL	BL	BL	BL	BL	Pass
221	BL	BL	BL	BL	BL	Pass
222	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
223	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
224	BL	BL	BL	BL	--	Pass
225	BL	BL	BL	BL	--	Pass

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Dated 2021-03-12

China

Compounds	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Total Chromium [mg/kg]	Total Bromine [mg/kg]	RESULT
<b>RoHS Limit</b>	<b>100</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>	
<b>226</b>	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
<b>227</b>	BL	BL	BL	BL	--	Pass
<b>228</b>	BL	***--	BL	BL	--	Pass
<b>229</b>	BL	BL	BL	BL	BL	Pass
<b>230</b>	BL	BL	BL	BL	BL	Pass
<b>231</b>	BL	BL	BL	BL	BL	Pass
<b>232</b>	BL	BL	BL	BL	BL	Pass
<b>233</b>	BL	BL	BL	BL	BL	Pass
<b>234</b>	BL	BL	BL	BL	BL	Pass
<b>235</b>	BL	BL	BL	BL	BL	Pass
<b>236</b>	BL	BL	BL	BL	BL	Pass
<b>237</b>	BL	BL	BL	BL	BL	Pass
<b>238</b>	BL	BL	BL	BL	--	Pass
<b>239</b>	BL	BL	BL	BL	BL	Pass
<b>240</b>	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
<b>241</b>	BL	BL	BL	BL	--	Pass
<b>242</b>	BL	BL	BL	BL	BL	Pass
<b>243</b>	BL	BL	BL	BL	BL	Pass
<b>244</b>	BL	BL	BL	BL	BL	Pass
<b>245</b>	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
<b>246</b>	BL	BL	BL	BL	--	Pass
<b>247</b>	BL	BL	BL	BL	BL	Pass
<b>248</b>	BL	BL	BL	BL	BL	Pass
<b>249</b>	BL	BL	BL	BL	BL	Pass
<b>250</b>	BL	BL	BL	BL	BL	Pass

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Compounds	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Total Chromium [mg/kg]	Total Bromine [mg/kg]	RESULT
RoHS Limit	100	1000	1000	1000	1000	
251	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
252	BL	BL	BL	BL	--	Pass
253	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
254	BL	BL	BL	BL	BL	Pass
255	BL	BL	BL	BL	BL	Pass
256	BL	BL	BL	BL	BL	Pass
257	BL	BL	BL	BL	BL	Pass
258	BL	BL	BL	BL	BL	Pass
259	BL	BL	BL	BL	BL	Pass
260	BL	BL	BL	BL	BL	Pass
261	BL	BL	BL	BL	BL	Pass
262	BL	BL	BL	BL	BL	Pass
263	BL	BL	BL	BL	BL	Pass
264	BL	BL	BL	BL	BL	Pass
265	BL	BL	BL	BL	BL	Pass
266	BL	BL	BL	BL	BL	Pass
267	BL	BL	BL	BL	BL	Pass
268	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
269	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
270	BL	*INC <sup>(a)</sup>	BL	INC <sup>(a)</sup>	--	Inconclusive
271	BL	BL	BL	BL	--	Pass
272	BL	BL	BL	BL	--	Pass
273	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
274	BL	BL	BL	BL	--	Pass
275	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive

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Compounds	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Total Chromium [mg/kg]	Total Bromine [mg/kg]	RESULT
RoHS Limit	100	1000	1000	1000	1000	
276	BL	BL	BL	BL	--	Pass
277	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
278	BL	BL	BL	BL	BL	Pass
279	BL	BL	BL	BL	--	Pass
280	BL	BL	BL	BL	--	Pass
281	BL	BL	BL	BL	--	Pass
282	BL	BL	BL	BL	BL	Pass
283	BL	BL	BL	BL	BL	Pass
284	BL	BL	BL	BL	BL	Pass
285	BL	BL	BL	BL	BL	Pass
286	BL	BL	BL	BL	BL	Pass
287	BL	BL	BL	BL	BL	Pass
288	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
289	BL	BL	BL	BL	--	Pass
290	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
291	BL	BL	BL	BL	--	Pass
292	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
293	BL	BL	BL	BL	--	Pass
294	BL	BL	BL	BL	--	Pass
295	BL	BL	BL	BL	BL	Pass
296	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
297	BL	BL	BL	BL	--	Pass
298	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
299	BL	BL	BL	INC <sup>(a)</sup>	--	Inconclusive
300	BL	BL	BL	BL	BL	Pass

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Compounds	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Total Chromium [mg/kg]	Total Bromine [mg/kg]	RESULT
RoHS Limit	100	1000	1000	1000	1000	
301	BL	*INC <sup>(a)</sup>	BL	BL	--	Inconclusive
302	BL	BL	BL	BL	--	Pass
303	BL	BL	BL	BL	BL	Pass
304	BL	BL	BL	BL	BL	Pass
305	BL	***--	BL	BL	BL	Pass
306	BL	BL	BL	BL	BL	Pass
307	BL	BL	BL	BL	BL	Pass
308	BL	BL	BL	BL	BL	Pass
309	BL	BL	BL	BL	BL	Pass
310	BL	BL	BL	BL	INC <sup>(b)</sup>	Inconclusive
311	BL	BL	BL	BL	BL	Pass
312	BL	BL	BL	BL	BL	Pass
313	BL	BL	BL	BL	--	Pass
314	BL	BL	BL	BL	--	Pass
315	BL	BL	BL	BL	BL	Pass
316	BL	BL	BL	BL	BL	Pass
317	BL	BL	BL	BL	BL	Pass
318	BL	BL	BL	BL	BL	Pass
319	BL	BL	BL	BL	BL	Pass
320	BL	BL	BL	BL	BL	Pass
321	BL	BL	BL	BL	BL	Pass
322	BL	BL	BL	BL	BL	Pass
323	BL	BL	BL	BL	BL	Pass

Remark:

1. "mg/kg" denotes "milligram per kilogram".
2. "BL" means test result is "Below the Limit".

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3. "INC" means test result is "Inconclusive".
4. "OL" means test result is "Over the Limit".
5. "--" means the substance for this sample are not tested.
6. "(a)" denotes further wet chemical confirmation test was conducted, results are listed in 3.2.1.
7. "(b)" denotes further wet chemical confirmation test was conducted, results are listed in 3.2.2.
8. With regard to the stoichiometry of Br in PBBs and PBDEs, the lower limit for Br is set at 300 mg/kg.
9. "\*" Refer to RoHS Official Exemption Item, 6(c) Copper alloy containing up to 4 % lead by weight.
10. "\*\*\*" Refer to RoHS Official Exemption Item, 8(b) Cadmium and its compounds in electrical contacts.
11. "\*\*\*\*" Refer to RoHS Official Exemption Item, 7(c)-I, Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors.



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### 3. Test Results

#### 3.2 Wet chemical test

##### Main instruments used for wet chemical test

Testing Target	Instrument	Method
Lead & Cadmium	ICP-OES	<b>EN 62321-4:2014/A1:2017,  EN 62321-5:2014,  EN 62321-6:2015,  EN 62321-7-1:2015,  EM 62321-7-2:2017,  EN 62321-8:2017</b>
Mercury	ICP-OES	
Hexavalent Chromium	UV-Vis	
PBBs & PBDEs	GC/MS	
DEHP, DBP, BBP, DIBP	GC/MS	

##### Criteria of chemical test results

###### Pass:

A definite Pass is given If the chemical test result meets the requirements of RoHS.

###### Fail:

A definite Fail is given If the chemical test result exceeds the full respective RoHS limit.

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## 3.2.1 Metallic material wet chemical test result (Cd, Pb, Hg, Cr6+)

Test Sample	Cadmium [mg/kg]	Lead [mg/kg]	Mercury [mg/kg]	Chromium# (VI) [mg/kg]	RESULT
RoHS Limit	100	1000	1000	§	
20	--	--	--	Negative	Pass
52	--	--	--	Negative	Pass
56	--	--	--	Negative	Pass
57	--	--	--	Negative	Pass
58	--	--	--	Negative	Pass
130	--	--	--	Negative	Pass
156	--	--	--	Negative	Pass
158	--	--	--	Negative	Pass
192	--	--	--	Negative	Pass
195	--	--	--	Negative	Pass
212	--	--	--	Negative	Pass
223	--	--	--	Negative	Pass
239	--	--	--	Negative	Pass
283	--	--	--	Negative	Pass
311	--	--	--	Negative	Pass
315	--	--	--	Negative	Pass
339	--	--	--	Negative	Pass
340	--	--	--	Negative	Pass
341	--	--	--	Negative	Pass
343	--	--	--	Negative	Pass
345	--	--	--	Negative	Pass
357	--	--	--	Negative	Pass
359	--	--	--	Negative	Pass
360	--	--	--	Negative	Pass
367	--	--	--	Negative	Pass
62	--	18267*	--	--	Pass

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Test Sample	Cadmium [mg/kg]	Lead [mg/kg]	Mercury [mg/kg]	Chromium# (VI) [mg/kg]	RESULT
RoHS Limit	100	1000	1000	§	
201	--	22770*	--	--	Pass
221	--	24560*	--	--	Pass
364	--	26126*	--	--	Pass

Remark:

1. “ -- ” means the substance for this sample are not tested.
2. “mg/kg” denotes “milligram per kilogram”
3. Detected limit of Cd :2mg/kg;Pb and Hg:5mg/kg;
- 4 “§” The Chromium (VI) content in surface layer have been confirmed with reference to EN 62321-7-1:2015

Result	Chromium (VI) concentration	Qualitative result
Negative	<0.1µg/cm <sup>2</sup>	The sample is negative for Cr(VI). The Cr(VI) concentration is below the limit of quantification. The coating is considered a non-Cr(VI) based coating.
Inconclusive	≥0.1µg/cm <sup>2</sup> and ≤0.13 µg/cm <sup>2</sup>	The result is considered to be inconclusive. Unavoidable coating variations may influence the determination. Recommendation: if additional samples are available, perform a total of 3 trials to increase sampling surface area. Use the averaged result of the 3 trails for the final determination.
Positive	>0.13 µg/cm <sup>2</sup>	The sample is positive for Cr(VI). Concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

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## 3.2.2 Non-metallic material wet chemical test result (Cd, Pb, Hg, Cr6+, PBBs, PBDEs)

Test Sample	Cadmium [mg/kg]	Lead [mg/kg]	Mercury [mg/kg]	Chromium (VI) [mg/kg]	PBBs (Sum) [mg/kg]	PBDEs (Sum) [mg/kg]	RESULT
RoHS Limit	100	1000	1000	1000	1000	1000	
11	--	--	--	--	<50	<50	Pass
19	--	--	--	--	<50	<50	Pass
23	--	--	--	--	<50	<50	Pass
27	--	--	--	--	<50	<50	Pass
28	--	--	--	--	<50	<50	Pass
29	--	--	--	--	<50	<50	Pass
39	--	--	--	--	<50	<50	Pass
40	--	--	--	--	<50	<50	Pass
51	--	--	--	--	<50	<50	Pass
61	--	--	--	--	<50	<50	Pass
66	--	--	--	--	<50	<50	Pass
84	--	--	--	--	<50	<50	Pass
96	--	--	--	--	<50	<50	Pass
104	--	--	--	--	<50	<50	Pass
109	--	--	--	--	<50	<50	Pass
142	--	--	--	--	<50	<50	Pass
146	--	--	--	--	<50	<50	Pass
171	--	--	--	--	<50	<50	Pass
177	--	--	--	--	<50	<50	Pass
214	--	--	--	--	<50	<50	Pass
215	--	--	--	--	<50	<50	Pass
227	--	--	--	--	<50	<50	Pass
235	--	--	--	--	<50	<50	Pass
253	--	--	--	--	<50	<50	Pass
268	--	--	--	--	<50	<50	Pass

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Test Sample	Cadmium [mg/kg]	Lead [mg/kg]	Mercury [mg/kg]	Chromium (VI) [mg/kg]	PBBs (Sum) [mg/kg]	PBDEs (Sum) [mg/kg]	RESULT
RoHS Limit	100	1000	1000	1000	1000	1000	
276	--	--	--	--	<50	<50	Pass
279	--	--	--	--	<50	<50	Pass
292	--	--	--	--	<50	<50	Pass
294	--	--	--	--	<50	<50	Pass
297	--	--	--	--	<50	<50	Pass
310	--	--	--	--	<50	<50	Pass
317	--	--	--	--	<50	<50	Pass
321	--	--	--	--	<50	<50	Pass
348	--	--	--	--	<50	<50	Pass
355	--	--	--	--	<50	<50	Pass
362	--	--	--	--	<50	<50	Pass

Remark:

1. Detected limit of Cd :2mg/kg; Pb, Hg, Cr, PBBs and PBDEs :5mg/kg;
2. "mg/kg" denotes "milligram per kilogram".
3. "--" means the substance for this sample are not tested.
4. "<" means less than (<MDL)

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## 3.2.3 Non-metallic material wet chemical test result (DEHP, DBP, BBP, DIBP)

Test Sample	DEHP [mg/kg]	DBP [mg/kg]	BBP [mg/kg]	DIBP [mg/kg]	RESULT
RoHS Limit	1000	1000	1000	1000	
1+2+3	<50	<50	<50	<50	Pass
4+5+6	<50	<50	<50	<50	Pass
7+9+10	<50	<50	<50	<50	Pass
11+12+13	<50	<50	<50	<50	Pass
16+17+18	<50	<50	<50	<50	Pass
19+23+26	<50	<50	<50	<50	Pass
27+28+29	<50	<50	<50	<50	Pass
30+31+33	<50	<50	<50	<50	Pass
34+35+36	<50	<50	<50	<50	Pass
37+38+39	<50	<50	<50	<50	Pass
40+41+42	<50	<50	<50	<50	Pass
43+44+45	<50	<50	<50	<50	Pass
46+48+49	<50	<50	<50	<50	Pass
50+51+53	<50	<50	<50	<50	Pass
54+55+59	<50	<50	<50	<50	Pass
60+61+63	<50	<50	<50	<50	Pass
64+66+67	<50	<50	<50	<50	Pass
68+69+70	<50	<50	<50	<50	Pass
71+72+73	<50	<50	<50	<50	Pass
74+75+76	<50	<50	<50	<50	Pass
77+78+79	<50	<50	<50	<50	Pass
80+81+82	<50	<50	<50	<50	Pass
83+84+85	<50	<50	<50	<50	Pass
86+87+88	<50	<50	<50	<50	Pass
89+90+91	<50	<50	<50	<50	Pass

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Test Sample	DEHP [mg/kg]	DBP [mg/kg]	BBP [mg/kg]	DIBP [mg/kg]	RESULT
RoHS Limit	1000	1000	1000	1000	
92+93+94	<50	<50	<50	<50	Pass
95+96+97	<50	<50	<50	<50	Pass
98+99+100	<50	<50	<50	<50	Pass
101+102+103	<50	<50	<50	<50	Pass
104+105+106	<50	<50	<50	<50	Pass
107+108+109	<50	<50	<50	<50	Pass
111+112+113	<50	<50	<50	<50	Pass
114+116+117	<50	<50	<50	<50	Pass
118+119+120	<50	<50	<50	<50	Pass
121+122+124	<50	<50	<50	<50	Pass
125+126+127	<50	<50	<50	<50	Pass
128+129+131	<50	<50	<50	<50	Pass
132+133+135	<50	<50	<50	<50	Pass
137+138+139	<50	<50	<50	<50	Pass
140+141+142	<50	<50	<50	<50	Pass
143+144+145	<50	<50	<50	<50	Pass
146+148+149	<50	<50	<50	<50	Pass
150+151+152	<50	<50	<50	<50	Pass
153+155+160	<50	<50	<50	<50	Pass
162+163+167	<50	<50	<50	<50	Pass
168+169+170	<50	<50	<50	<50	Pass
171+172+174	<50	<50	<50	<50	Pass
175+176+177	<50	<50	<50	<50	Pass
179+180+181	<50	<50	<50	<50	Pass
182+184+185	<50	<50	<50	<50	Pass
186+187+188	<50	<50	<50	<50	Pass

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Test Sample	DEHP [mg/kg]	DBP [mg/kg]	BBP [mg/kg]	DIBP [mg/kg]	RESULT
RoHS Limit	1000	1000	1000	1000	
189+191+197	<50	<50	<50	<50	Pass
198+199+200	<50	<50	<50	<50	Pass
202+203+204	<50	<50	<50	<50	Pass
205+206+208	<50	<50	<50	<50	Pass
209+210+214	<50	<50	<50	<50	Pass
215+216+227	<50	<50	<50	<50	Pass
228+232+233	<50	<50	<50	<50	Pass
234+235+236	<50	<50	<50	<50	Pass
237+238+240	<50	<50	<50	<50	Pass
241+242+243	<50	<50	<50	<50	Pass
244+245+246	<50	<50	<50	<50	Pass
247+248+249	<50	<50	<50	<50	Pass
250+251+252	<50	<50	<50	<50	Pass
253+254+255	<50	<50	<50	<50	Pass
257+258+259	<50	<50	<50	<50	Pass
260+261+262	<50	<50	<50	<50	Pass
263+264+265	<50	<50	<50	<50	Pass
266+267+268	<50	<50	<50	<50	Pass
269+270+271	<50	<50	<50	<50	Pass
272+275+276	<50	<50	<50	<50	Pass
277+278+279	<50	<50	<50	<50	Pass
282+284+285	<50	<50	<50	<50	Pass
286+287+288	<50	<50	<50	<50	Pass
289+290+291	<50	<50	<50	<50	Pass
292+293+294	<50	<50	<50	<50	Pass
295+296+297	<50	<50	<50	<50	Pass

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Test Sample	DEHP [mg/kg]	DBP [mg/kg]	BBP [mg/kg]	DIBP [mg/kg]	RESULT
RoHS Limit	1000	1000	1000	1000	
298+299+300	<50	<50	<50	<50	Pass
301+302+303	<50	<50	<50	<50	Pass
305+306+307	<50	<50	<50	<50	Pass
308+310+312	<50	<50	<50	<50	Pass
313+314+316	87	<50	<50	<50	Pass
317+318+319	<50	<50	<50	<50	Pass
320+321+323	<50	<50	<50	<50	Pass
328+329+330	<50	<50	<50	<50	Pass
335+338+342	<50	<50	<50	<50	Pass
344+346+347	<50	<50	<50	<50	Pass
348+349+350	<50	<50	<50	<50	Pass
351+352+354	<50	<50	<50	<50	Pass
355+358+361	<50	<50	<50	<50	Pass
362+365	<50	<50	<50	<50	Pass

Remark:

1. Detected limit of DEHP, DBP, BBP and DIBP: 50mg/kg.
2. "mg/kg" denotes "milligram per kilogram".
3. "<" means less than (<MDL)

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Prepared by:

Mr. Yongfeng DU

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Mr. Feng ZHANG

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## APPENDIX I: Additional May Covered Models Reference

M7 Pro/ M7 Pro Antibacterial Mopping/ M7 Pro+

### Remarks:

The above listed may covered models were only based on client's guarantee letter (self-declaration). TÜV SÜD takes no responsibility for any mistakes and the problems of product consistency caused by inaccurate and/or invalid information submitted by the client.



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**APPENDIX II: Official Exemption Items**

Below items are quoted based on Directives of 2011/65/EU and its valid Amending Directives.

Exemption		Scope and dates of applicability
1	Mercury in single capped (compact) fluorescent lamps not exceeding (per burner)	
1(a)	For general lighting purpose < 30 W:5mg	Expires on 31 December 2011; 3,5mg maybe used per burner after 31 December 2011 until 31 December 2012; 2.5mg shall be used per burner after 31 December 2012
1(b)	For general lighting purposes $\geq 30$ W and < 50 W:5mg	Expires on 31 December 2011; 3,5mg maybe used per burner after 31 December 2011 until 31 December 2012; 2.5mg shall be used per burner after 31 December 2012
1(c)	For general lighting purposes $\geq 50$ W and < 150 W:5mg	
1(d)	For general lighting purpose $\geq 30$ W and $\geq 150$ W:15mg	
1(e)	For general lighting purpose with circular or square structural shape and tube diameter <17mm	No limitation of use until 31 December 2011; 7 mg may be used per burner after 31 December 2011
1(f)	For special purposes:5mg	
2(a)	Mercury in double capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp)	
2(a)(1)	Tri-band phosphor with normal lifetime and a tube diameter < 9 mm (e.g. T2): 5mg	Expires on 31 December 2011; 4mg may be used per lamp after 31 December 2011
2(a)(2)	Tri-band phosphor with normal lifetime and a tube diameter $\geq 9$ mm and $\leq 17$ mm (e.g. T5): 5mg	Expires on 31 December 2011; 3mg may be used per lamp after 31 December 2011
2(a)(3)	Tri-band phosphor with normal lifetime and a tube diameter >17 mm and $\leq 28$ mm (e.g. T8): 5mg	Expires on 31 December 2011; 3,5 mg may be used per lamp after 31 December 2011
2(a)(4)	Tri-band phosphor with normal lifetime and a tube diameter >28mm (e.g. T12): 5mg	Expires on 31 December 2011; 3,5 mg may be used per lamp after 31 December 2011
2(a)(5)	Tri-band phosphor with long lifetime( $\geq 25$ 000h):8mg	Expires on 13 December 2011;5mg may be used per lamp after 31 December 2011
2(b)	Mercury in other fluorescent lamps not exceeding (per lamp):	
2(b)(1)	Linear halophosphate lamps with tube >28 mm(e.g. T10 and T12): 10mg	Expires on 13 April 2012
2(b)(2)	Non-linear halophosphate lamps (all diameters):15mg	Expires on 13 April 2016
2(b)(3)	Non-linear tri-band phosphor lamps with tube diameter >17mm (e.g. T9)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011

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Exemption		Scope and dates of applicability
2(b)(4)	Lamps for other general lighting and special purposes (e.g. induction lamps)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011
3	Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp)	
3(a)	Short length( $\leq 500\text{mm}$ )	No limitation of use until 31 December 2011; 3,5 mg may be used per lamp after 31 December 2011
3(b)	Medium length ( $> 500\text{mm}$ and $\leq 1\ 500\text{mm}$ )	No limitation of use until 31 December 2011; 5 mg may be used per lamp after 31 December 2011
3(c)	Long length ( $> 1\ 500\text{mm}$ )	No limitation of use until 31 December 2011; 13 mg may be used per lamp after 31 December 2011
4(a)	Mercury in other low pressure discharge lamps (per lamp)	No limitation of use until 31 December 2011; 15 mg may be used per lamp after 31 December 2011
4(b)	Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index $R_a > 60$ ;	
4(b)-I	$P \leq 155\ \text{W}$	No limitation of use until 31 December 2011; 30mg may be used per burner after 31 December 2011
4(b)-II	$155\ \text{W} < P \leq 405\ \text{W}$	No limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011
4(b)-III	$P > 405\ \text{W}$	No limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011
4(c)	Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner)	
4(c)-I	$P \leq 155\ \text{W}$	No limitation of use until 31 December 2011; 30mg may be used per burner after 31 December 2011
4(c)-II	$155\ \text{W} < P \leq 405\ \text{W}$	No limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011
4(c)-III	$P > 405\ \text{W}$	No limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011
4(d)	Mercury in High Pressure Mercury (vapour) lamps (HPMV)	Expires on 13 April 2015
4(e)	Mercury in metal halide lamps (MH)	
4(f)	Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex	
4(g)	Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and light-artwork, where the mercury content shall be limited as follows:	Expires on 1 December 2018

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Exemption		Scope and dates of applicability
	(a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 °C; (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications.	
5(a)	Lead in glass of cathode ray tubes	
5(b)	Lead in glass of fluorescent tubes not exceeding 0,2 % by weight	
6(a)	Lead as an alloying element in steel for machining purposes and in galvanised steel containing up to 0,35 % lead by weight	Expires on: — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; — 21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
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	Expires on 21 July 2021 for categories 1-7 and 10.'
6(b)	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight	Expires on: — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, — 21 July 2023 for category 8 in vitro diagnostic medical devices, — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
6(b)-I	Lead as an alloying element in aluminium containing up to 0,4 % lead by weight, provided it stems from lead-bearing aluminium scrap recycling	Expires on 21 July 2021 for categories 1-7 and 10.
6(b)-II	Lead as an alloying element in aluminium for machining purposes with a lead content up to 0,4 % by weight	Expires on 18 May 2021 for categories 1-7 and 10.'
6(c)	Copper alloy containing up to 4 % lead by weight	Expires on: — 21 July 2021 for categories 1-7 and 10, — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, — 21 July 2023 for category 8 in vitro diagnostic medical devices, — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.'
7(a)	Lead in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead)	Applies to categories 1-7 and 10 (except applications covered by point 24 of this Annex) and expires on 21 July 2021. For categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021. For category 8 in vitro diagnostic medical devices expires on 21 July 2023. For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.'

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Exemption		Scope and dates of applicability
7(b)	Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications	
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	Applies to categories 1-7 and 10 (except applications covered under point 34) and expires on 21 July 2021. For categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments expires on 21 July 2021. For category 8 in vitro diagnostic medical devices expires on 21 July 2023. For category 9 industrial monitoring and control instruments, and for category 11 expires on 21 July 2024.
7(c)-II	Lead in dielectric ceramic in capacitors for a rated voltage of 125 V AC or 250 V DC or higher	Does not apply to applications covered by point 7(c)-I and 7(c)-IV of this Annex. Expires on: —21 July 2021 for categories 1-7 and 10; —21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; —21 July 2023 for category 8 in vitro diagnostic medical devices; —21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.'
7(c)-III	Lead in dielectric ceramic in capacitors for a rated voltage of less than 125 V AC or 250 V DC	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
7(c)-IV	Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors'	Expires on: —21 July 2021 for categories 1-7 and 10; —21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; —21 July 2023 for category 8 in vitro diagnostic medical devices; —21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.'
8(a)	Cadmium and its compounds in one shot pellet type thermal cut-offs	Expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012
8(b)	Cadmium and its compounds in electrical contacts	Applies to categories 8, 9 and 11 and expires on: — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; — 21 July 2023 for category 8 in vitro diagnostic medical devices; — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
8(b)-I	Cadmium and its compounds in electrical contacts used in: — circuit breakers, — thermal sensing controls, — thermal motor protectors (excluding hermetic thermal motor protectors), — AC switches rated at: — 6 A and more at 250 V AC and more, or — 12 A and more at 125 V AC and more, — DC switches rated at 20 A and more at 18 V DC and more, and — switches for use at voltage supply frequency $\geq$ 200 Hz.	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.'

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China

Report No. 48.400.21.7153.00-00/02

Dated 2021-03-12

Exemption		Scope and dates of applicability
9	Hexavalent chromium as an anticorrosion agent of the carbon steel cooling system in absorption refrigerators up to 0,75 % by weight in the cooling solution	
9(b)	Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications	
11(a)	Lead used in C-press compliant pin connector systems	May be used in spare parts for EEE placed on the market before 24 September 2010
11(b)	Lead used in other than C-press compliant pin connector systems	Expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013
12	Lead as a coating material for the thermal conduction module C-ring	May be used in spare parts for EEE placed on the market before 24 September 2010
13(a)	Lead in white glasses used for optical applications	
13(b)	Cadmium and lead in filter glasses and glasses used for reflectance standards	
14	Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80 % and less than 85 % by weight	Expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011
15	Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit flip chip packages	Applies to categories 8, 9 and 11 and expires on: —21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; —21 July 2023 for category 8 in vitro diagnostic medical devices; —21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
15(a)	Lead in solders to complete a viable electrical connection between the semiconductor die and carrier within integrated circuit flip chip packages where at least one of the following criteria applies: —a semiconductor technology node of 90 nm or larger; —a single die of 300 mm <sup>2</sup> or larger in any semiconductor technology node; —stacked die packages with die of 300 mm <sup>2</sup> or larger, or silicon interposers of 300 mm <sup>2</sup> or larger.	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.'
16	Lead in linear incandescent lamps with silicate coated tubes	Expires on 1 September 2013
17	Lead halide as radiant agent in high intensity discharge (HID) lamps used for professional reprography applications	
18(a)	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as speciality lamps for diazoprinting reprography, lithography, insect traps, photochemical and curing processes containing phosphors such as SMS ((Sr,Ba) <sub>2</sub> MgSi <sub>2</sub> O <sub>7</sub> :Pb)	Expires on 1 January 2011
18(b)	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP(BaSi <sub>2</sub> O <sub>5</sub> :Pb)	Categories 1-7 and 10, Expires on 21 July 2021 Categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, Expires on 21 July 2021 Category 8 in vitro diagnostic medical devices, Expires on 21 July 2023

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Exemption		Scope and dates of applicability
		Category 9 industrial monitoring and control instruments, and for category 11, Expires on 21 July 2024
18(b)-I	Lead as activator in the fluorescent powder (1 % lead by weight or less) of discharge lamps containing phosphors such as BSP (BaSi2O5:Pb) when used in medical phototherapy equipment	Categories 5 and 8, excluding applications covered by entry 34 of Annex IV, Expires on 21 July 2021
19	Lead with PbBiSn-Hg and PbInSn-Hg in specific compositions as main amalgam and with PbSn-Hg as auxiliary amalgam in very compact energy saving lamps (ESL)	Expires on 1 June 2011
20	Lead oxide in glass used for bonding front and rear substrates of flat fluorescent lamps used for Liquid Crystal Displays (LCDs)	Expires on 1 June 2011
21	Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Applies to categories 8, 9 and 11 and expires on: —21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; —21 July 2023 for category 8 in vitro diagnostic medical devices; —21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
21(a)	Cadmium when used in colour printed glass to provide filtering functions, used as a component in lighting applications installed in displays and control panels of EEE	Applies to categories 1 to 7 and 10 except applications covered by entry 21(b) or entry 39 and expires on 21 July 2021.
21(b)	Cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glasses	Applies to categories 1 to 7 and 10 except applications covered by entry 21(a) or 39 and expires on 21 July 2021.
21(c)	Lead in printing inks for the application of enamels on other than borosilicate glasses	Applies to categories 1 to 7 and 10 and expires on 21 July 2021.
23	Lead in finishes of fine pitch components other than connectors with a pitch of 0,65 mm and less	May be used in spare parts for EEE placed on the market before 24 September 2010
24	Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors	Expires on: — 21 July 2021 for categories 1-7 and 10, — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, — 21 July 2023 for category 8 in vitro diagnostic medical devices, — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.'
25	Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring	
26	Lead oxide in the glass envelope of black light blue lamps	Expires on 1 June 2011
27	Lead alloys as solder for transducers used in high-powered (designated to operate for several hours at acoustic power levels of 125 dB SPL and above) loudspeakers	Expired on 24 September 2010
29	Lead bound in crystal glass as defined in Annex I (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC ( 1 )	Expires on: —21 July 2021 for categories 1-7 and 10; —21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; —21 July 2023 for category 8 in vitro diagnostic medical devices;

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Exemption		Scope and dates of applicability
		—21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.
30	Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more	
31	Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)	
32	Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes	Expires on: —21 July 2021 for categories 1-7 and 10, —21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, —21 July 2023 for category 8 in vitro diagnostic medical devices, —21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.'
33	Lead in solders for the soldering of thin copper wires of 100 um diameter and less in power transformers	
34	Lead in cermet-based trimmer potentiometer elements	Applies to all categories; expires on: — 21 July 2021 for categories 1-7 and 10, — 21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments, — 21 July 2023 for category 8 in vitro diagnostic medical devices, — 21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.'
36	Mercury used as a cathode sputtering inhibitor in DC plasma displays with a content up to 30 mg per display	Expired on 1 July 2010
37	Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body	Expires on: —21 July 2021 for categories 1-7 and 10; —21 July 2021 for categories 8 and 9 other than in vitro diagnostic medical devices and industrial monitoring and control instruments; —21 July 2023 for category 8 in vitro diagnostic medical devices; —21 July 2024 for category 9 industrial monitoring and control instruments, and for category 11.'
38	Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide	
39(a)	Cadmium selenide in downshifting cadmium-based semiconductor nanocrystal quantum dots for use in display lighting applications (< 0,2 µg Cd per mm <sup>2</sup> of display screen area)	Expires for all categories on [two years after the publication of the Delegated Directive in the Official Journal]
40	Cadmium in photoresistors for analogue optocouplers applied in professional audio equipment	Expires on 31 December 2013
41	Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines	Expires on 1 December 2018

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	Exemption	Scope and dates of applicability
	(classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council.	
42	Lead in bearings and bushes of diesel or gaseous fuel powered internal combustion engines applied in non-road professional use equipment: - with engine total displacement $\geq$ 15 litres; or - with engine total displacement < 15 litres and the engine is designed to operate in applications where the time between signal to start and full load is required to be less than 10 seconds; or regular maintenance is typically performed in a harsh and dirty outdoor environment, such as mining, construction, and agriculture applications.	Applies to category 11, excluding applications covered by entry 6(c) of this Annex. Expires on 21 July 2024.'
43	Bis(2-ethylhexyl) phthalate in rubber components in engine systems, designed for use in equipment that is not intended solely for consumer use and provided that no plasticised material comes into contact with human mucous membranes or into prolonged contact with human skin and the concentration value of bis(2-ethylhexyl) phthalate does not exceed: (a) 30 % by weight of the rubber for (i) gasket coatings; (ii) solid-rubber gaskets; or (iii) rubber components included in assemblies of at least three components using electrical, mechanical or hydraulic energy to do work, and attached to the engine. (b) 10 % by weight of the rubber for rubber-containing components not referred to in point (a). For the purposes of this entry, "prolonged contact with human skin" means continuous contact of more than 10 minutes duration or intermittent contact over a period of 30 minutes, per day.	Applies to category 11 and expires on 21 July 2024.
44	Lead in solder of sensors, actuators, and engine control units of combustion engines within the scope of Regulation (EU) 2016/1628 of the European Parliament and of the Council (*1), installed in equipment used at fixed positions while in operation which is designed for professionals, but also used by non-professional users	Applies to category 11 and expires on 21 July 2024.

--END OF REPORT--

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