



Applicant: Shenzhen Roborock Innovation Technology Co., Ltd.

Address: Room 1802, Building D1, Nanshan Zhiyuan, No.1001 Xueyuan Avenue, Changyuan community, Taoyuan Street, Nanshan District, Shenzhen, P.R. China

Attn: Ms.LU

Sample Description: Cordless Stick Vacuum Cleaner + Auto-Empty Dock,
Cordless Stick Vacuum Cleaner

Model No.: H9A1A+MDS23HRR, H10A1A

Sample Received Date: 2025-02-18 ~ 2025-03-17

Test Period: 2025-03-01 ~ 2025-04-10

Purpose of examination: Screening of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).

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.

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

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

TÜV SÜD Group

Prepared by:



Yongfeng Du
Project Handler

Reviewed by:



Feng Zhang
Designated Reviewer

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.

TÜV SÜD Certification and Testing (China) Co., Ltd.
Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi, Jiangsu, 214 101, P. R. China
Tel.: +86-510-8820-3737 Fax: +86-510-8820-3636
www.tuv-sud.cn info@tuv-sud.cn

Shanghai Chemical Lab No. 1999 Du Hui Road
Tel.: +86-21-6037-6501



SUMMARY OF TEST RESULTS

No.	Test Requested	Conclusion*	Remarks
1.	Screening of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).	Lead at 2.41% Other SVHCs < 0.1%	Test Sample 286
2.	Screening of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).	Lead at 2.08% Other SVHCs < 0.1%	Test Sample 295
3.	Screening of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).	Each SVHC < 0.1%	Other tested sample(s)

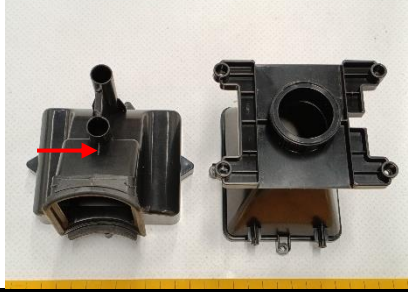
Note:

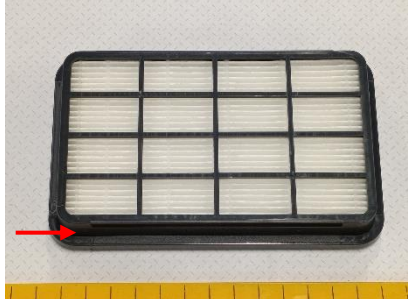
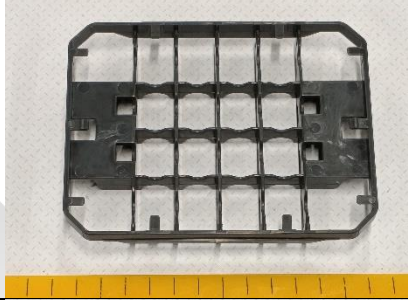
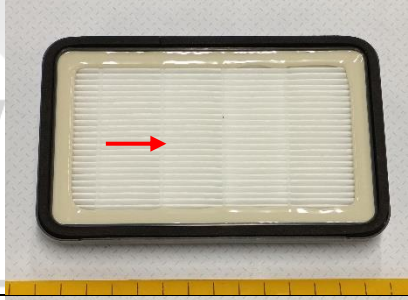
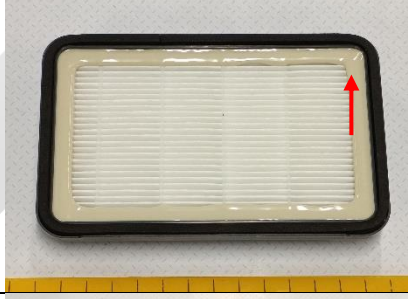
- "*" The conclusion was drawn according to the client's specification.

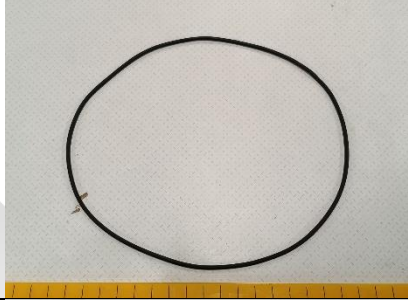


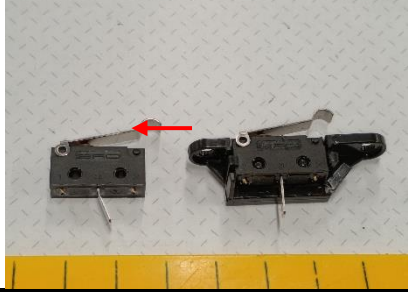
1. TESTED SUBJECT DESCRIPTION

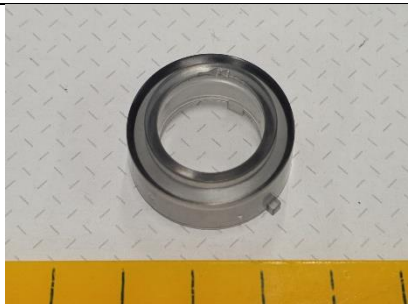
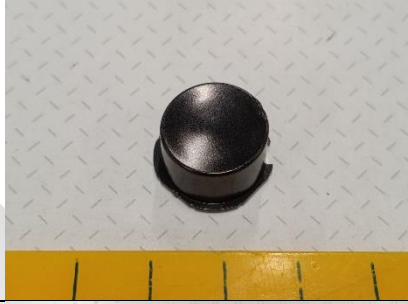
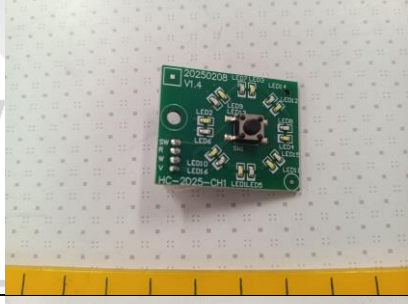
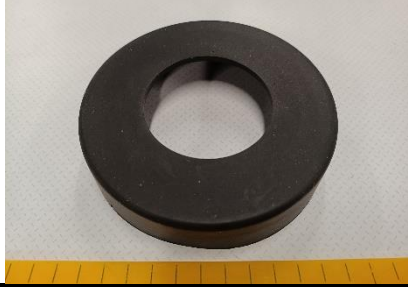
Sample Number	Tested Material Description	Photo
001	White plastic component	
002	Black plastic component	
003	Black plastic component	
004	Black plastic component	
005	Black plastic component	

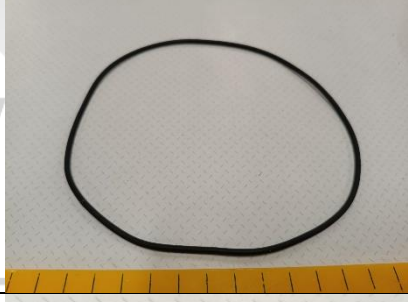
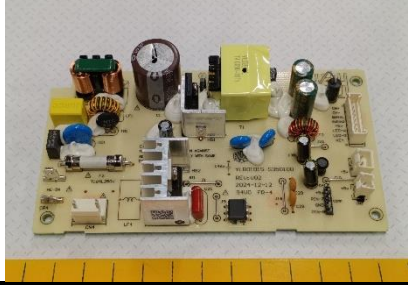
Sample Number	Tested Material Description	Photo
006	Black plastic component	
007	Black plastic component	
008	Black plastic component	
009	Black plastic component	
010	Black plastic component	

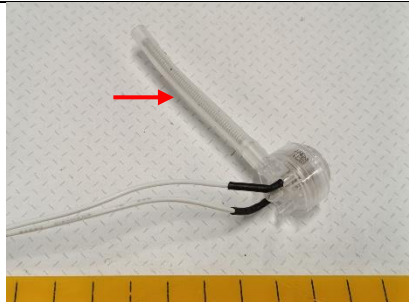
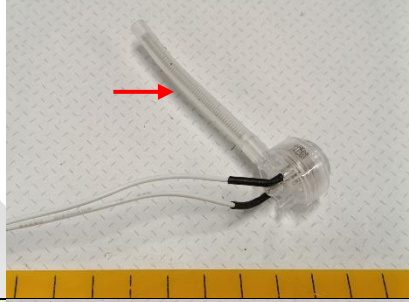
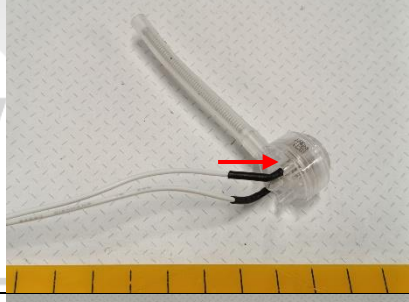
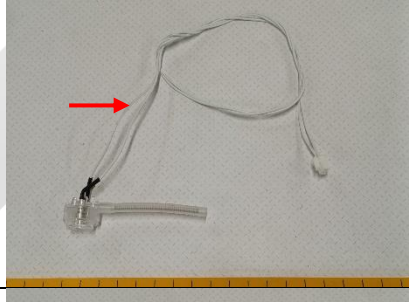
Sample Number	Tested Material Description	Photo
011	Black plastic component	
012	Black plastic component	
013	White HEPA	
014	White glue	
015	Black sponge	

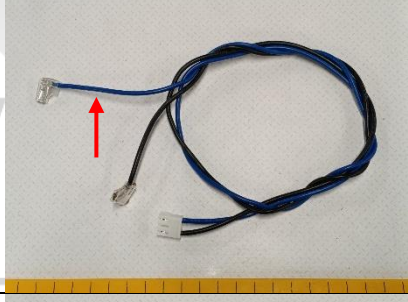
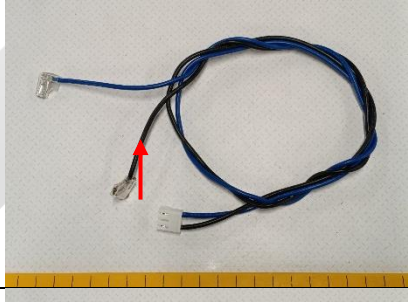
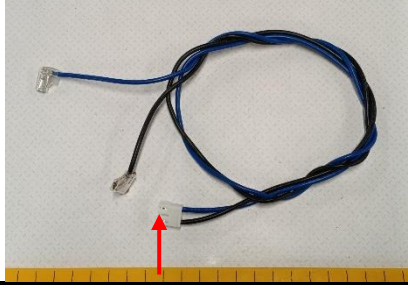
Sample Number	Tested Material Description	Photo
016	Black sponge	
017	Black polymer washer	
018	White textile bag	
019	Brown paper board	
020	Black plastic component	

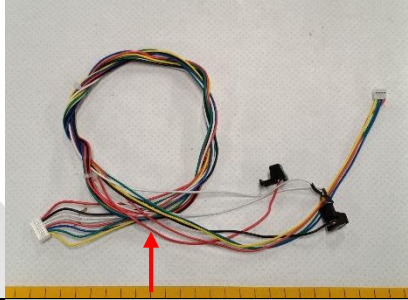
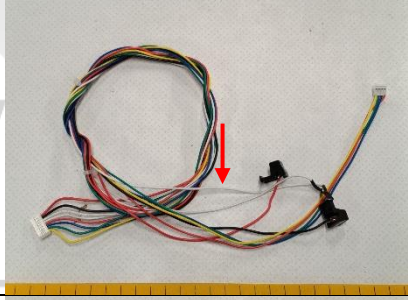
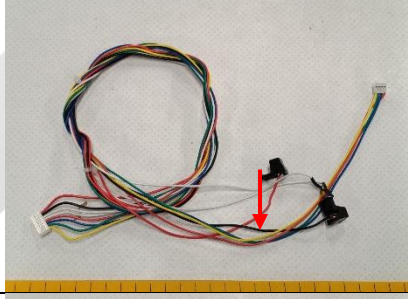
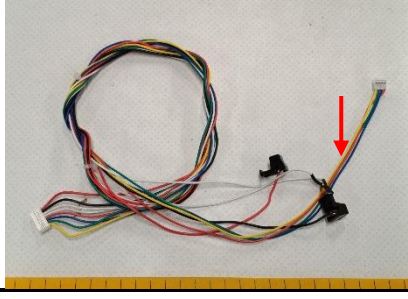
Sample Number	Tested Material Description	Photo
021	Black plastic component	
022	Black plastic component	
023	Black plastic component	
024	Black plastic switch shell	
025	Silvery grey metal fin	

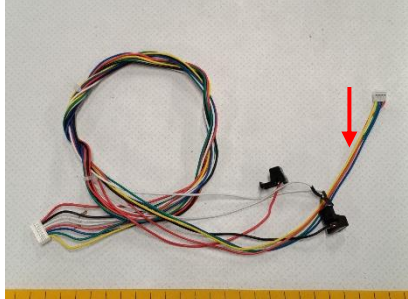
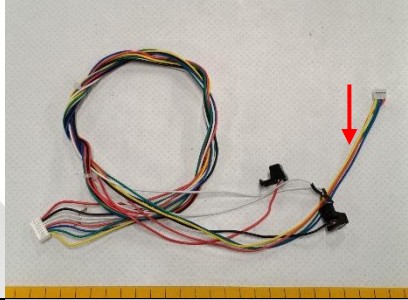
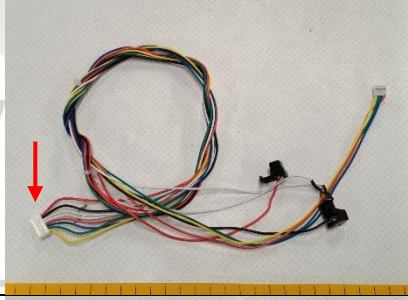
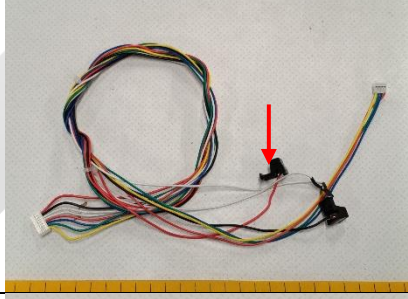
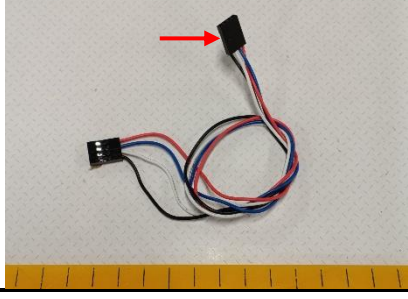
Sample Number	Tested Material Description	Photo
026	Grey plastic component	
027	Black plastic component	
028	PCB board with welded electric component mixed testing as one article	
029	Black polymer component	
030	Black polymer component	

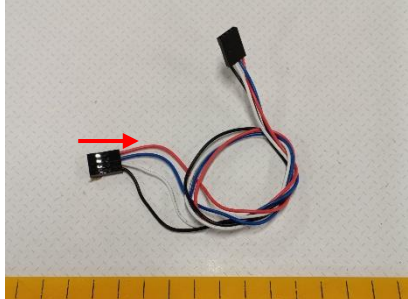
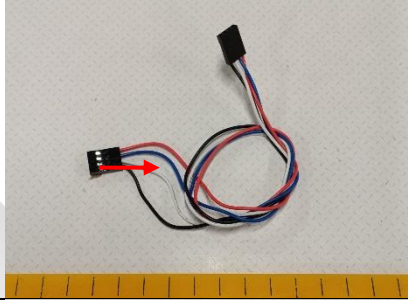
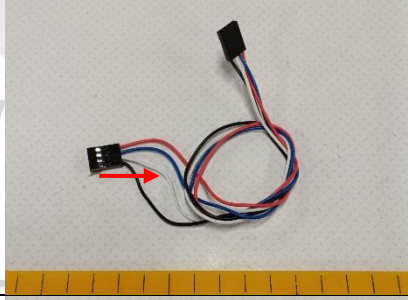
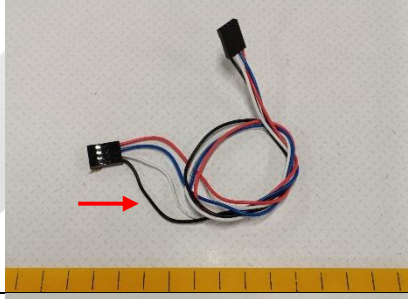
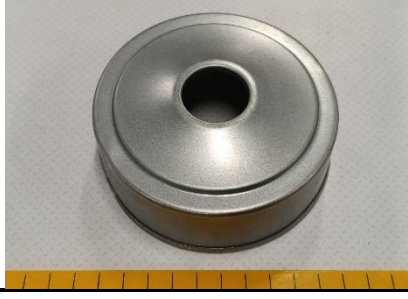
Sample Number	Tested Material Description	Photo
031	Black polymer component	
032	Black polymer component	
033	Black polymer component	
034	Black polymer component	
035	PCB board with welded electric component mixed testing as one article	

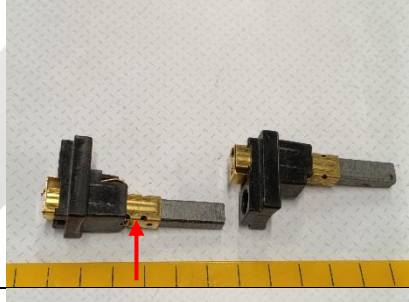
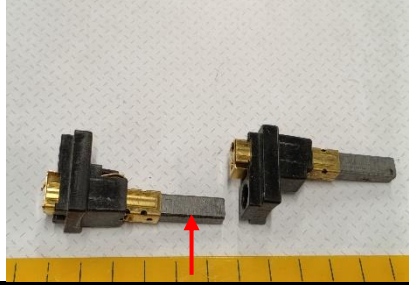
Sample Number	Tested Material Description	Photo
036	Transparent silicon tube	
037	Inner metal spring	
038	Transparent plastic component	
039	White wire jacket	
040	White plastic socket	

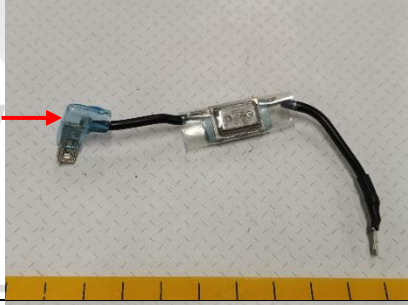
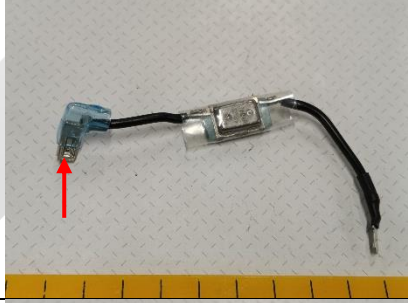
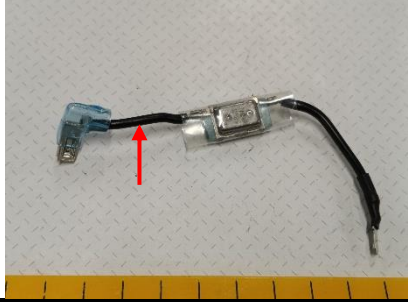
Sample Number	Tested Material Description	Photo
041	Transparent polymer component	
042	Inner silvery grey plug pin	
043	Blue wire jacket	
044	Black wire jacket	
045	White plastic component	

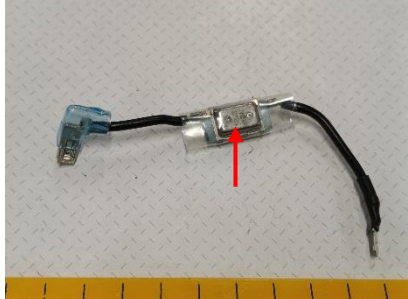
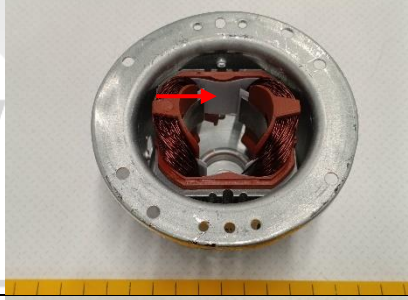
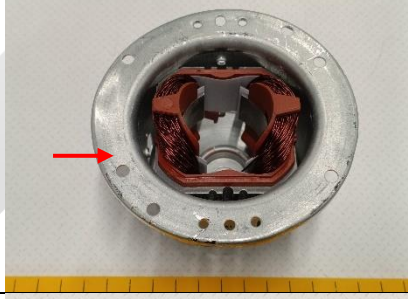
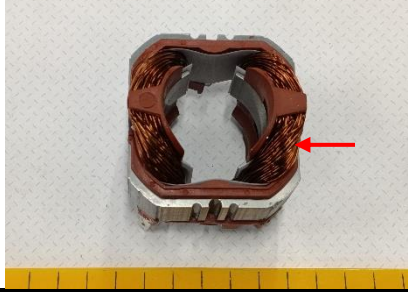
Sample Number	Tested Material Description	Photo
046	Black wire jacket	
047	Red wire jacket	
048	White wire jacket	
049	Black wire jacket	
050	Yellow wire jacket	

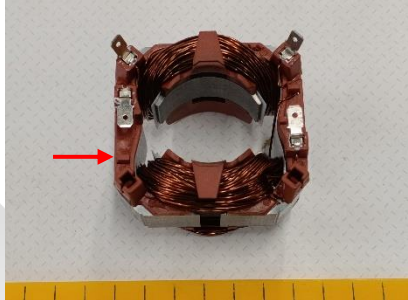
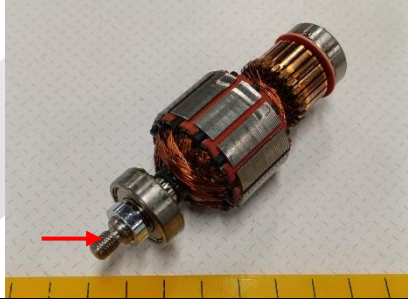
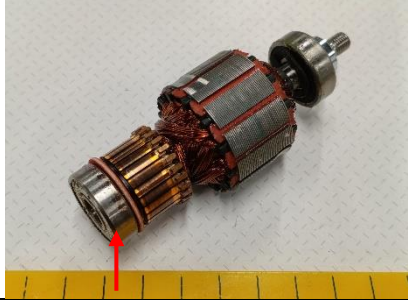
Sample Number	Tested Material Description	Photo
051	Green wire jacket	
052	Blue wire jacket	
053	White plastic plug	
054	Black plastic component	
055	Black plastic component	

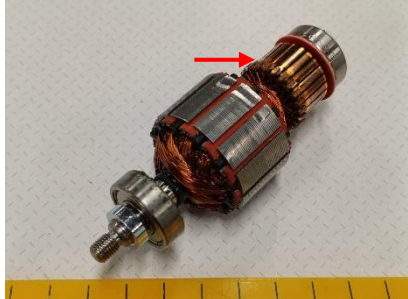
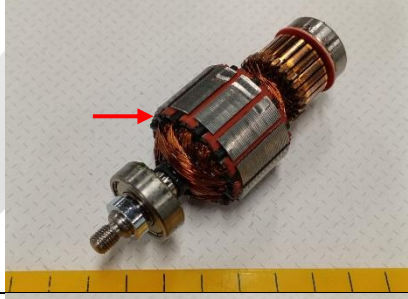
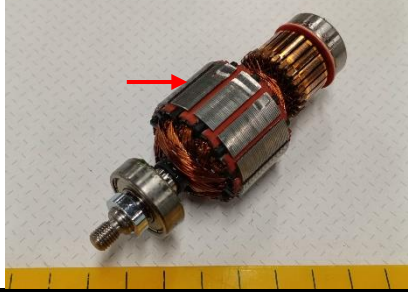
Sample Number	Tested Material Description	Photo
056	Red wire jacket	
057	Blue wire jacket	
058	White wire jacket	
059	Black wire jacket	
060	Silvery grey metal component	

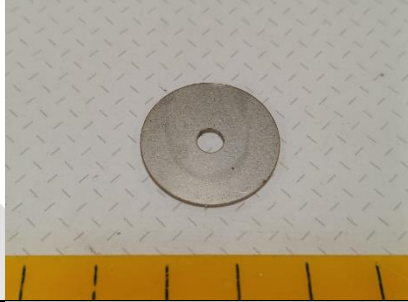
Sample Number	Tested Material Description	Photo
061	Black plastic component	
062	Silvery grey metal component	
063	White plastic component	
064	Yellow metal tube	
065	Black carbon piece	

Sample Number	Tested Material Description	Photo
066	Inner grey metal spring	
067	Black plastic piece	
068	Blue silicon jacket	
069	Grey metal fin	
070	Black wire jacket	

Sample Number	Tested Material Description	Photo
071	Transparent polymer jacket	
072	Black plastic component	
073	White polymer insulation films	
074	Grey metal component	
075	Metal wire	

Sample Number	Tested Material Description	Photo
076	Grey metal component	
077	Red plastic component	
078	Silvery grey metal component	
079	Silvery grey metal component	
080	Silvery grey metal component	

Sample Number	Tested Material Description	Photo
081	Copper fin	
082	Metal wire	
083	Black plastic chip	
084	Red plastic fin	
085	Silvery grey metal fin	

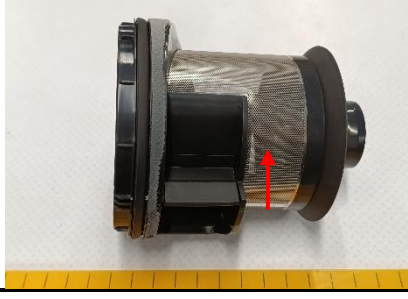
Sample Number	Tested Material Description	Photo
086	Grey metal component	
087	Grey metal washer	
088	Silvery grey metal component	
089	Black metal component	
090	Black metal component	

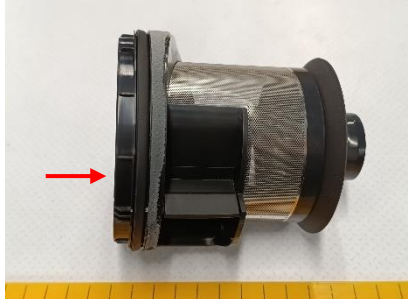
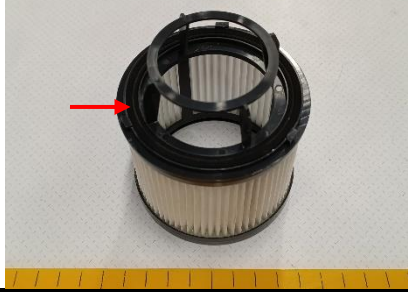
Sample Number	Tested Material Description	Photo
091	Black metal component	
092	Silvery grey metal component	
093	Grey metal component	
094	Grey metal component	
095	Black plastic component	

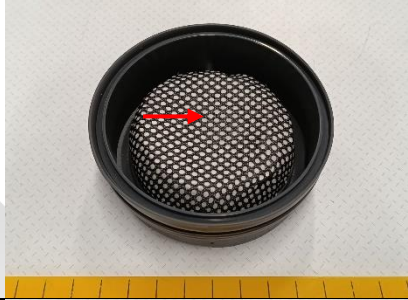
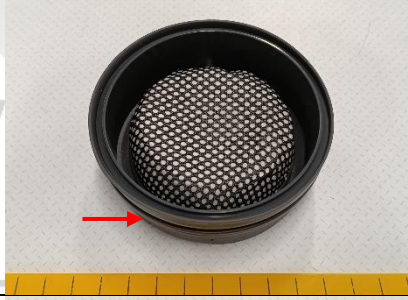
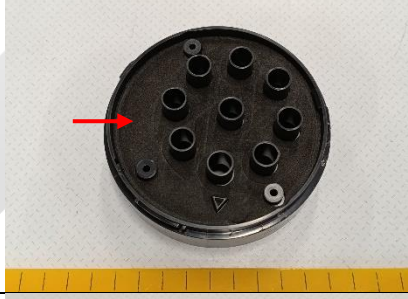
Sample Number	Tested Material Description	Photo
096	Black plastic component	
097	Black plastic component	
098	Black plastic component	
099	Transparent plastic component	
100	Black plastic component	

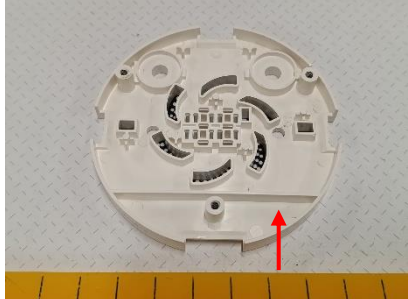
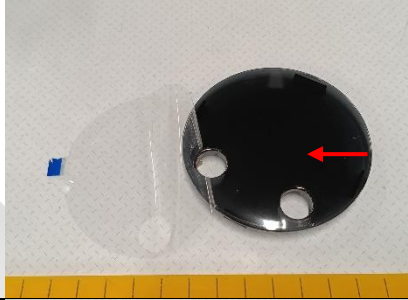
Sample Number	Tested Material Description	Photo
101	Black plastic component	
102	Black plastic component	
103	Black plastic component	
104	Black plastic component	
105	Black plastic component	

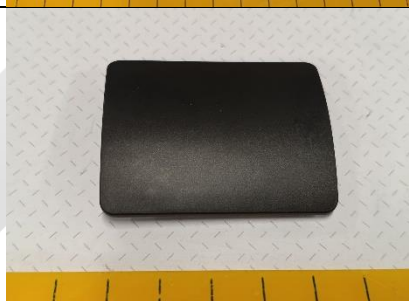
Sample Number	Tested Material Description	Photo
106	Black plastic component	
107	Black polymer component	
108	Black plastic component	
109	Black plastic component	
110	Grey plastic component	

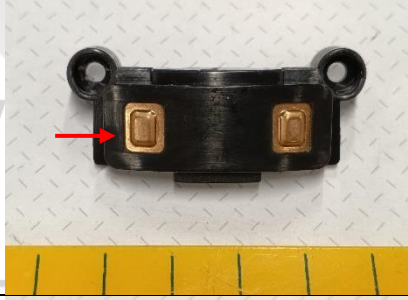
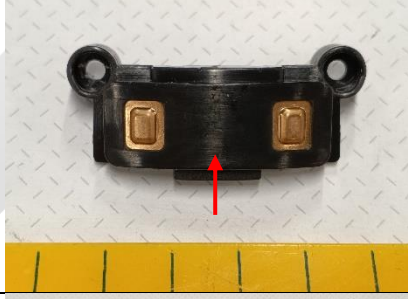
Sample Number	Tested Material Description	Photo
111	Black sponge	
112	Black plastic component	
113	Silvery grey metal component	
114	Semi-transparent grey plastic component	
115	Grey metal mesh	

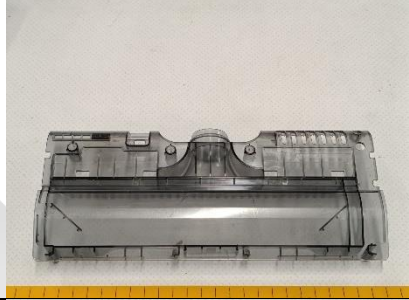
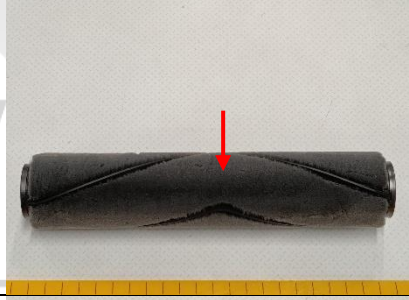
Sample Number	Tested Material Description	Photo
116	Black plastic component	
117	Black plastic component	
118	Black polymer washer	
119	White HEPA	
120	Black plastic component	

Sample Number	Tested Material Description	Photo
121	White cotton pad	
122	Black cotton jacket	
123	Black polymer component	
124	Black polymer fin	
125	Black plastic component	

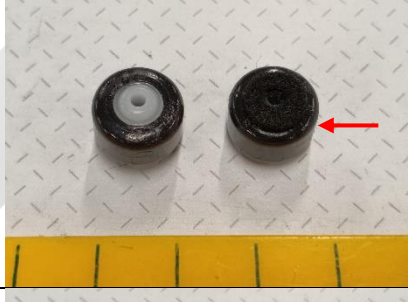
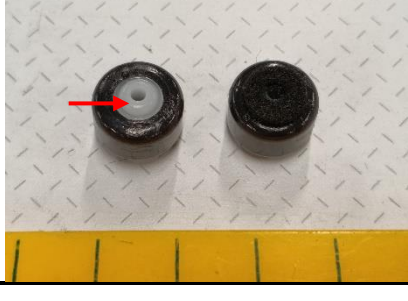
Sample Number	Tested Material Description	Photo
126	White plastic component	
127	Black plastic component	
128	Black plastic component	
129	Semi-transparent grey plastic component	
130	Black plastic component	

Sample Number	Tested Material Description	Photo
131	Black plastic component	
132	Black brush bristle	
133	Black plastic component	
134	Black plastic component	
135	Black plastic component	

Sample Number	Tested Material Description	Photo
136	Black plastic component	
137	Black plastic component	
138	Copper metal fin	
139	Black plastic component	
140	Black plastic component	

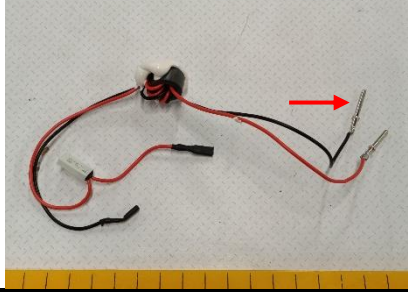
Sample Number	Tested Material Description	Photo
141	Black plastic component	
142	Transparent grey plastic component	
143	Grey brush bristle	
144	Black polymer scrap piece	
145	Black plastic component	

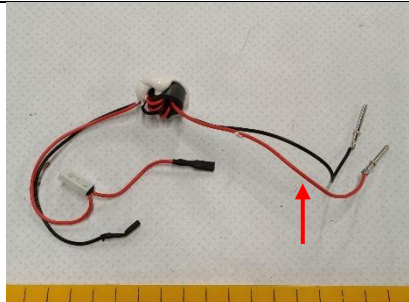
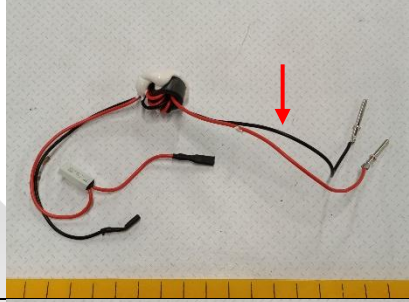
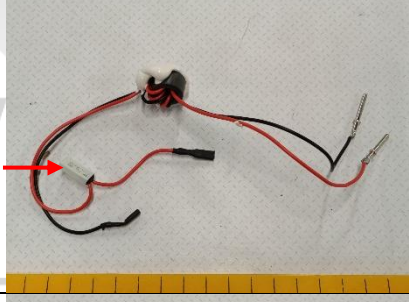
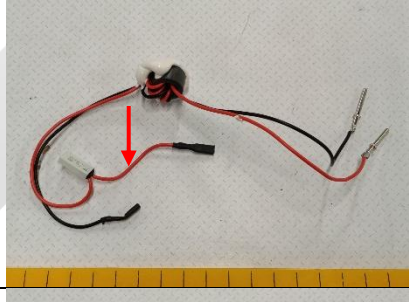
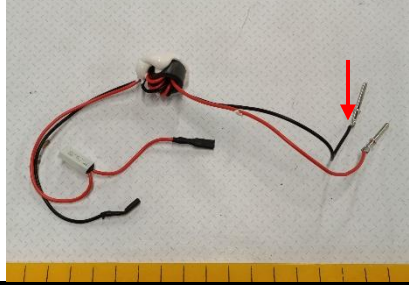
Sample Number	Tested Material Description	Photo
146	Black plastic component	
147	Black plastic component	
148	Black plastic component	
149	White plastic component	
150	Silvery grey metal component	

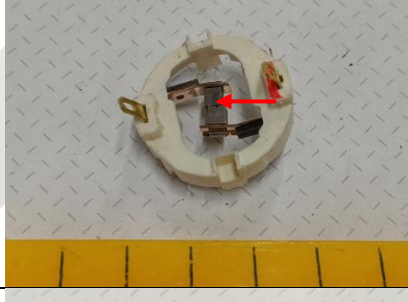
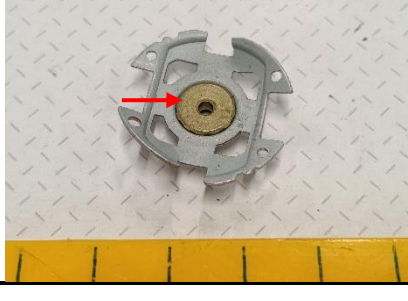
Sample Number	Tested Material Description	Photo
151	Black plastic component	
152	Black plastic component	
153	Black plastic component	
154	Black wheel jacket	
155	White plastic component	

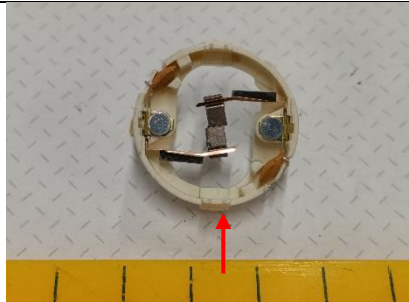
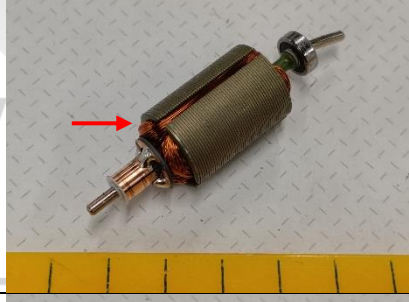
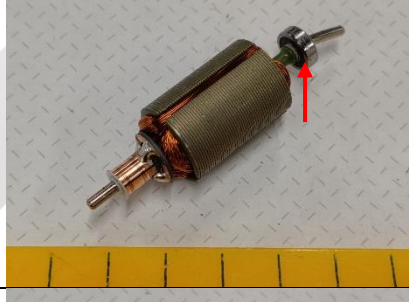
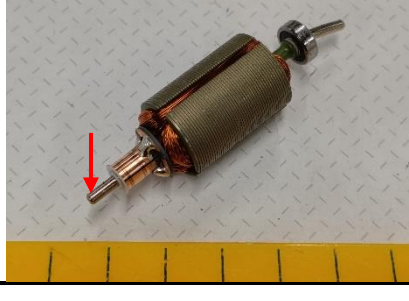
Sample Number	Tested Material Description	Photo
156	Black plastic component	
157	Black polymer tube	
158	Semi-transparent black plastic component	
159	Black plastic component	
160	Black rubber belt	

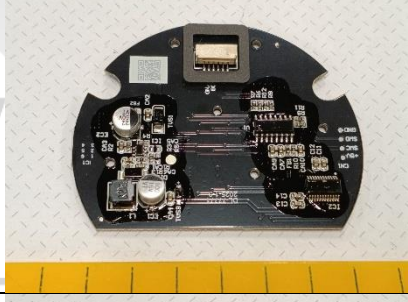
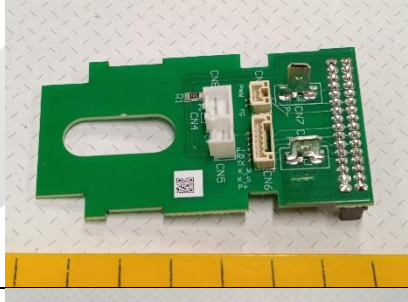
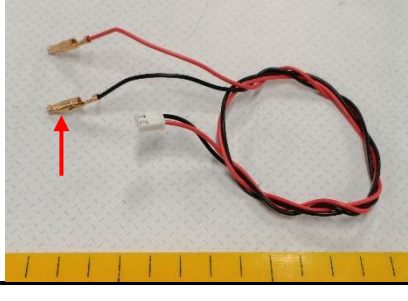
Sample Number	Tested Material Description	Photo
161	Semi-transparent black plastic component	
162	Silvery grey metal bar	
163	Black plastic component	
164	Black plastic component	
165	Black plastic component	

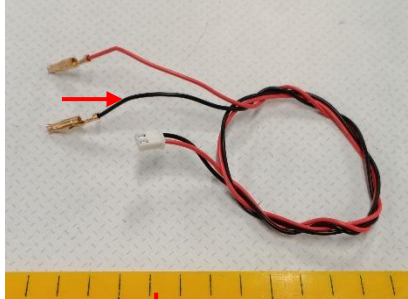
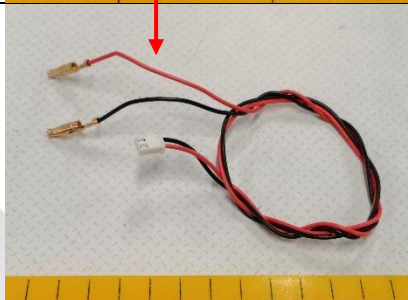
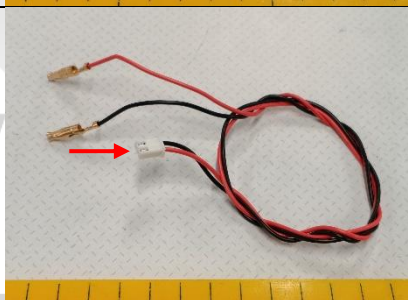
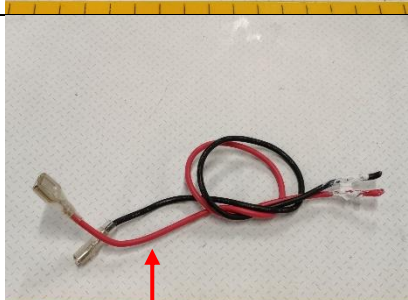
Sample Number	Tested Material Description	Photo
166	Black polymer scrap bar	
167	Black plastic component	
168	Black plastic component	
169	White plastic component	
170	Silvery grey metal pin	

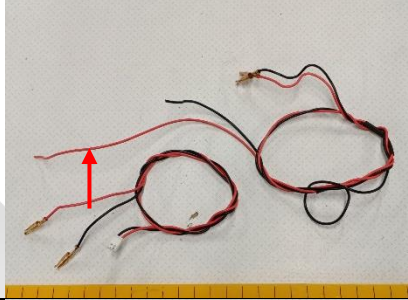
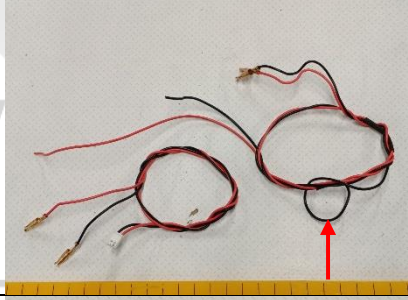
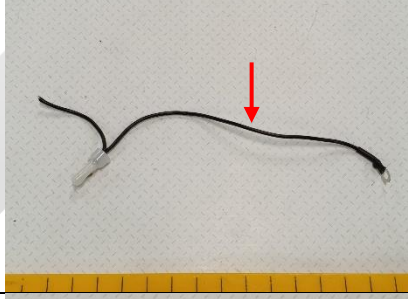
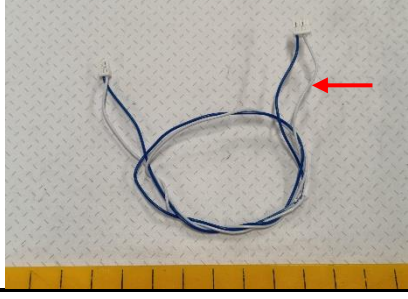
Sample Number	Tested Material Description	Photo
171	Red wire jacket	
172	Black wire jacket	
173	White electric component body	
174	Red wire jacket	
175	Silvery grey solder points	

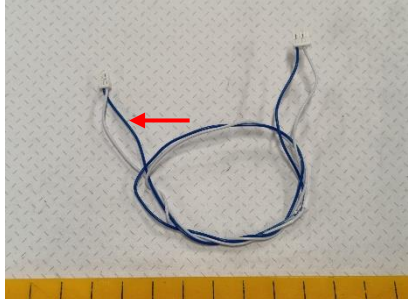
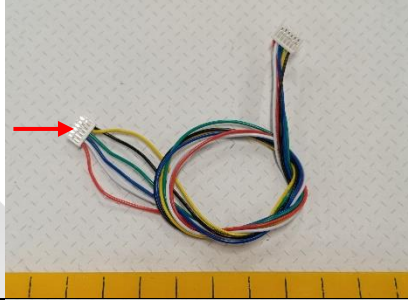
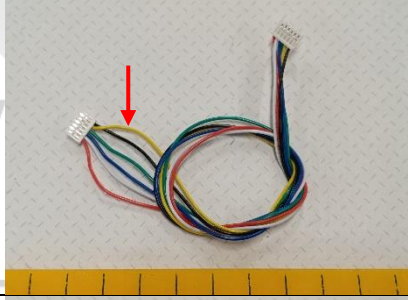
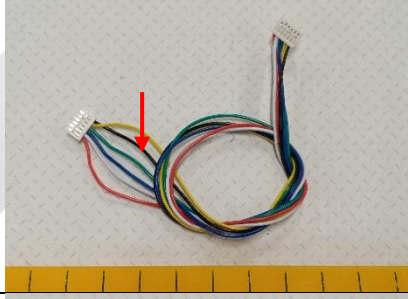
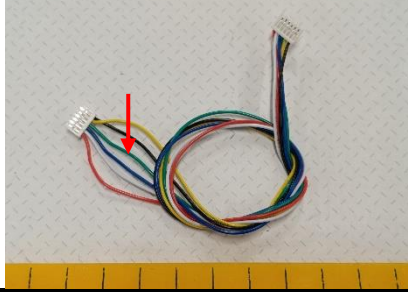
Sample Number	Tested Material Description	Photo
176	Grey metal component	
177	Grey metal component	
178	Grey metal component	
179	Black carbon piece	
180	Copper metal piece	

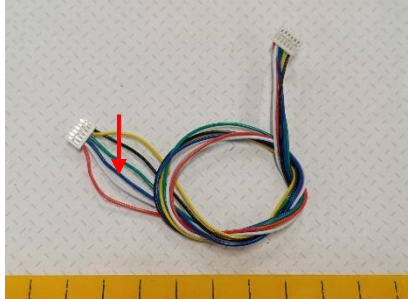
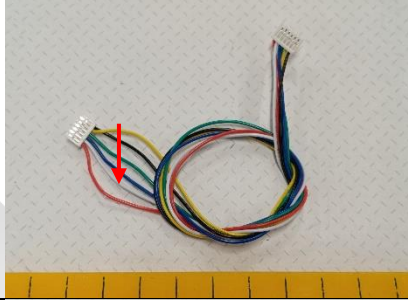
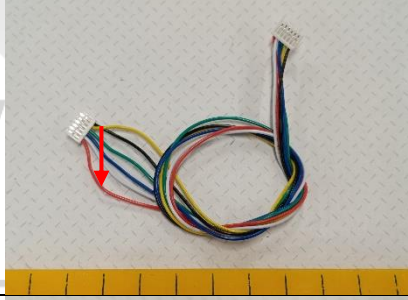
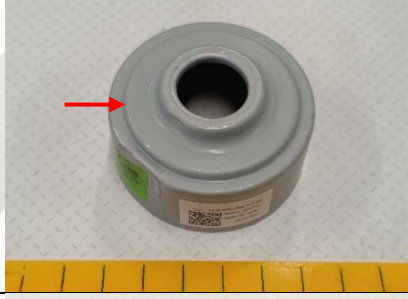
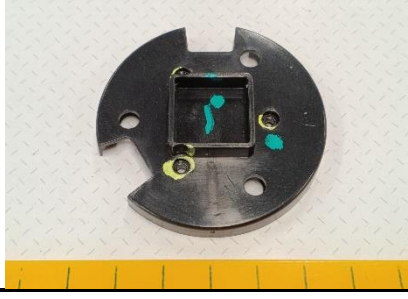
Sample Number	Tested Material Description	Photo
181	White plastic component	
182	Grey metal component	
183	Copper wire	
184	Silvery grey metal component	
185	Silvery grey metal pin	

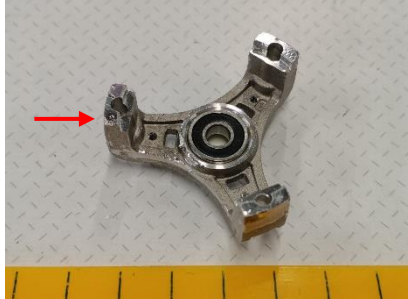
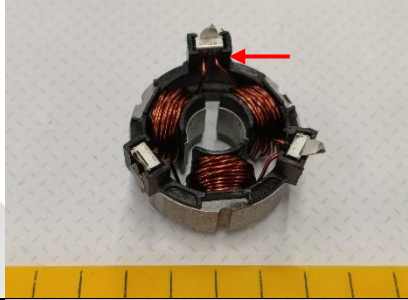
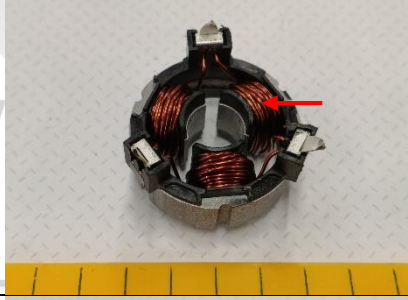
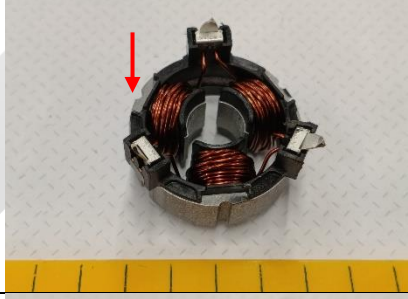
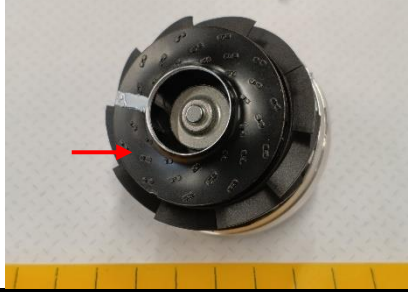
Sample Number	Tested Material Description	Photo
186	Black polymer component	
187	PCB board with welded electric component mixed testing as one article	
188	PCB board with welded electric component mixed testing as one article	
189	PCB board with welded electric component mixed testing as one article	
190	Yellow metal socket	

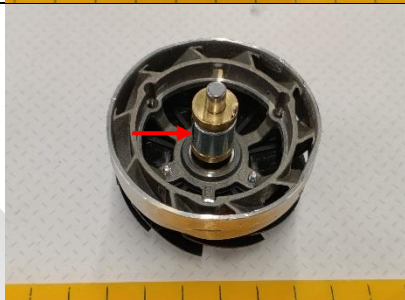
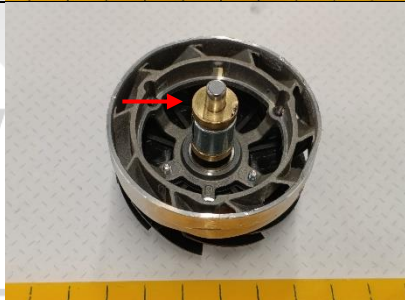
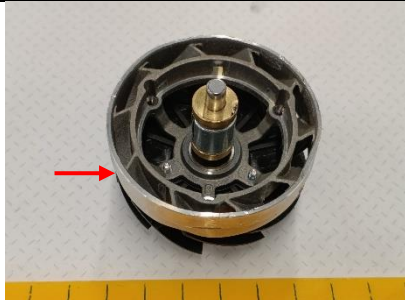
Sample Number	Tested Material Description	Photo
191	Black wire jacket	
192	Red wire jacket	
193	White plastic socket	
194	Transparent polymer jacket	
195	Red wire jacket	

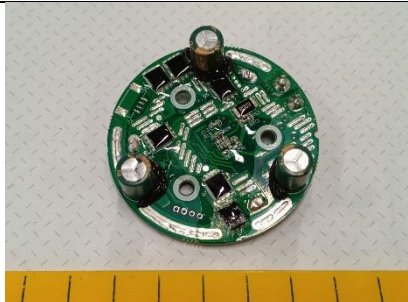
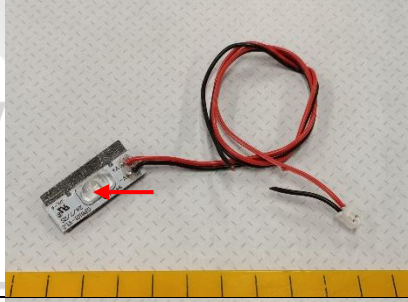
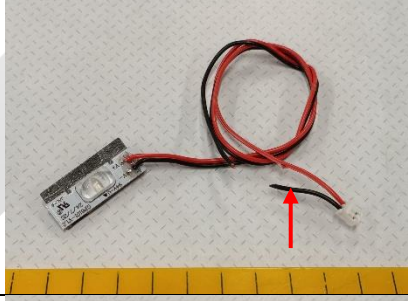
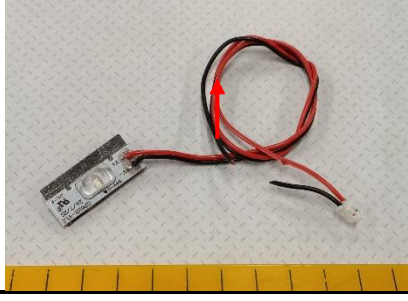
Sample Number	Tested Material Description	Photo
196	Black wire jacket	
197	Red wire jacket	
198	Black wire jacket	
199	Black wire jacket	
200	White wire jacket	

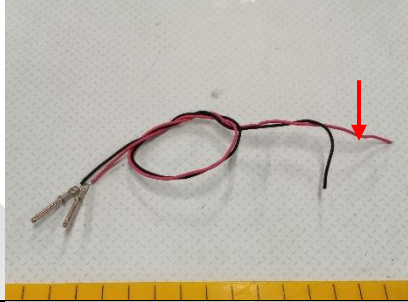
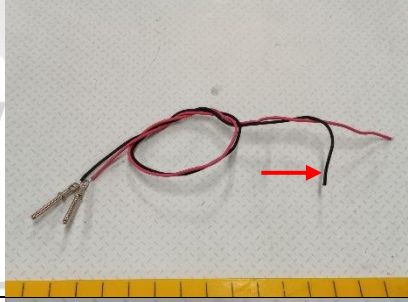
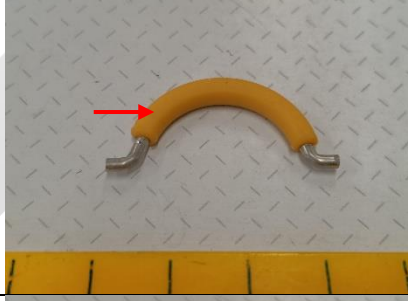
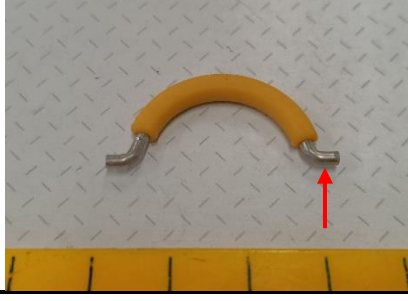
Sample Number	Tested Material Description	Photo
201	Blue wire jacket	
202	White plastic socket	
203	Yellow wire jacket	
204	Black wire jacket	
205	Green wire jacket	

Sample Number	Tested Material Description	Photo
206	Blue wire jacket	
207	Black wire jacket	
208	Red wire jacket	
209	Grey metal component	
210	Black plastic component	

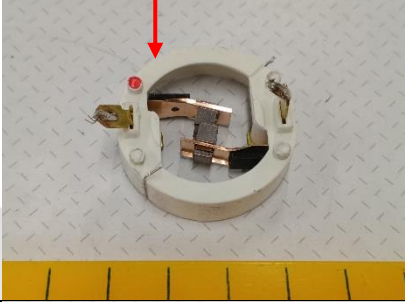
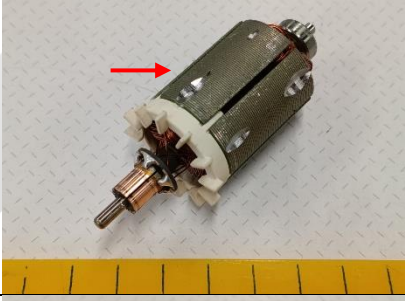
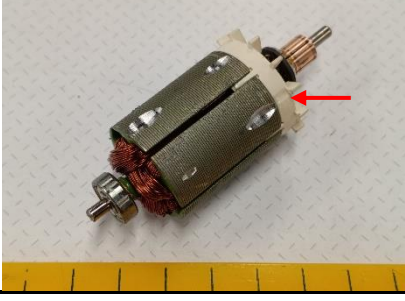
Sample Number	Tested Material Description	Photo
211	Grey metal component	
212	Black plastic component	
213	Metal wire metal component	
214	Grey metal component	
215	Black metal component	

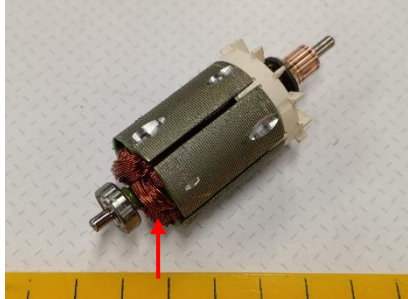
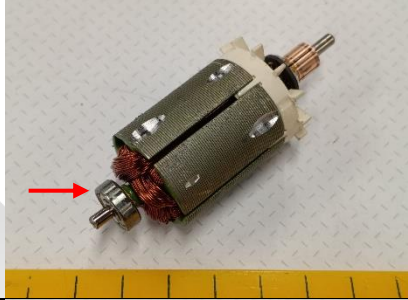
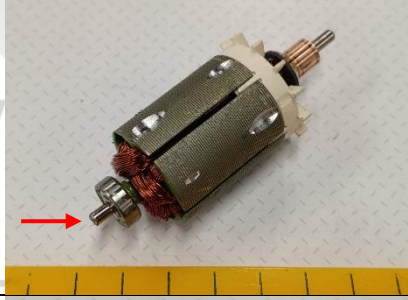
Sample Number	Tested Material Description	Photo
216	Grey metal component	
217	Silvery grey metal component	
218	Yellow copper alloy ring	
219	Silvery grey metal component	
220	Grey metal frame	

Sample Number	Tested Material Description	Photo
221	PCB board with welded electric component mixed testing as one article	
222	White PCB board	
223	LED plastic cap	
224	Black wire jacket	
225	Red wire jacket	

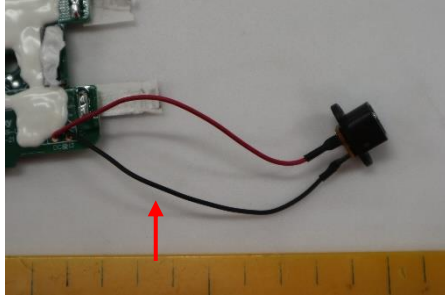
Sample Number	Tested Material Description	Photo
226	Silvery grey metal component	
227	Red wire jacket	
228	Black wire jacket	
229	Yellow plastic jacket	
230	Metal pin	

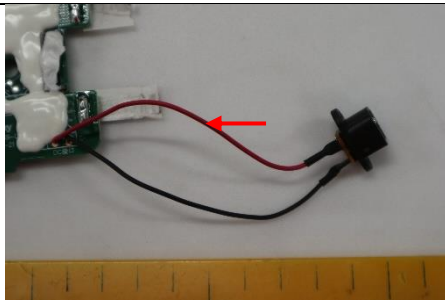
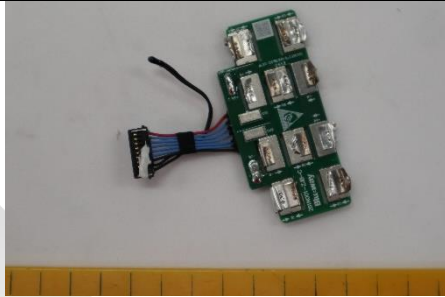
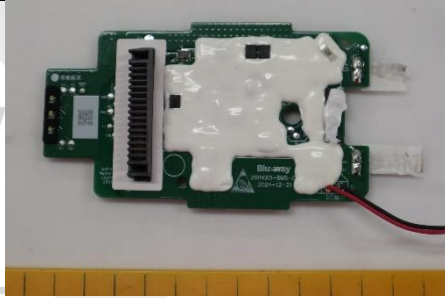
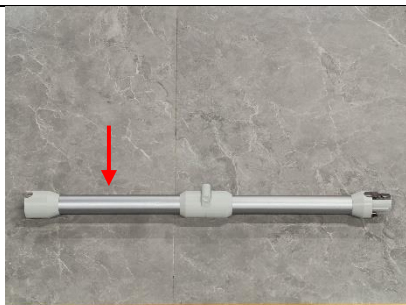


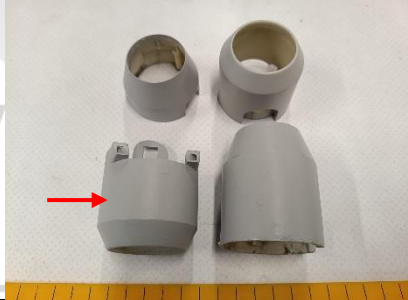
Sample Number	Tested Material Description	Photo
231	Grey metal component	
232	White plastic frame	
233	Black rubber belt	
234	Grey metal fin	
235	White plastic component	

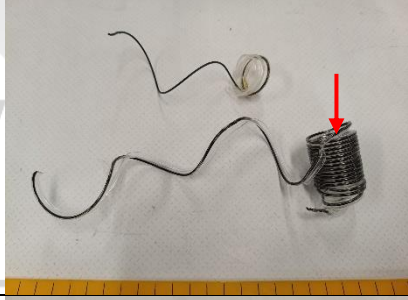
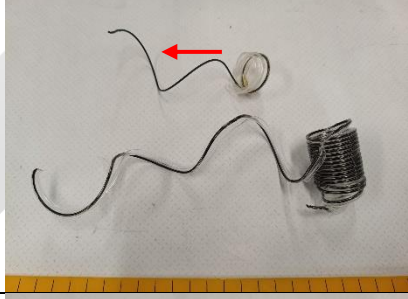
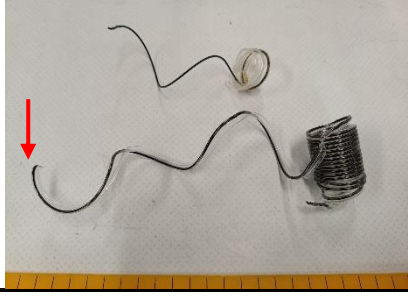
Sample Number	Tested Material Description	Photo
236	Copper wire	
237	Silvery grey metal component	
238	Silvery grey metal component	
239	Grey metal component	
240	Black metal component	

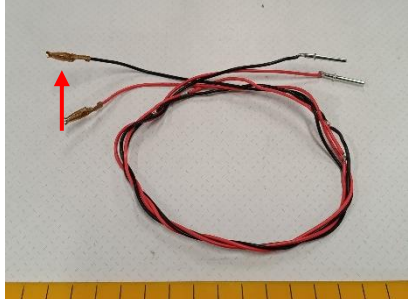
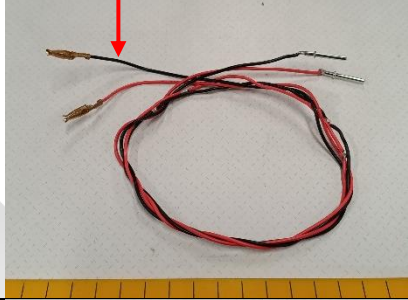
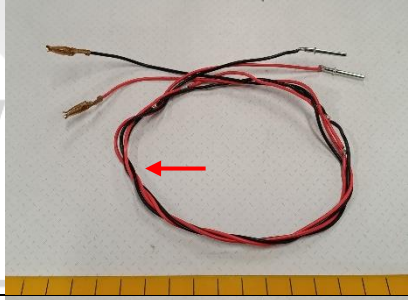
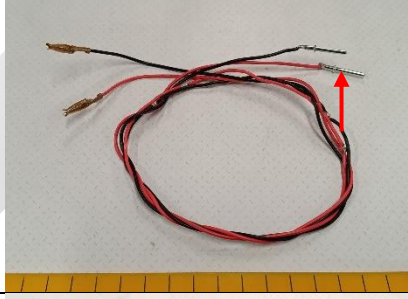
Sample Number	Tested Material Description	Photo
241	Black metal component	
242	Grey metal component	
243	Black metal component	
244	Black metal component	
245	Black plastic shell	

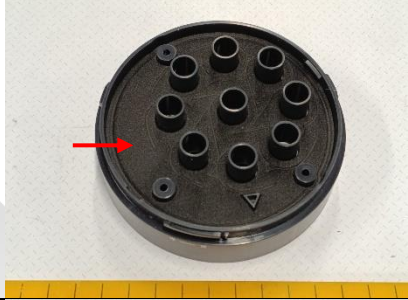
Sample Number	Tested Material Description	Photo
246	Black plastic frame	
247	Black polymer block	
248	Black polymer tape	
249	Black plastic tape	
250	Black wire jacket	

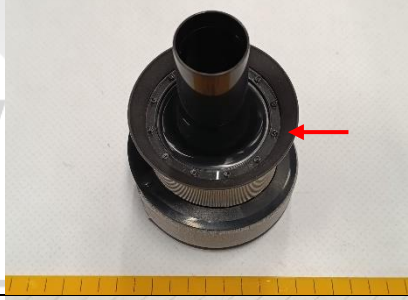
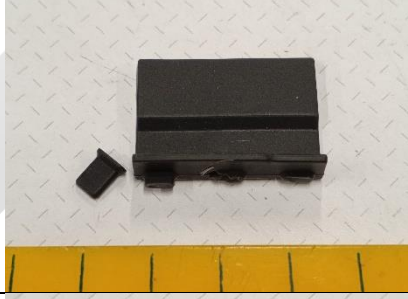
Sample Number	Tested Material Description	Photo
251	Red wire jacket	
252	PCB board with welded electric component mixed testing as one article	
253	PCB board with welded electric component mixed testing as one article	
254	Li-ion battery cell	
255	Grey metal tube	

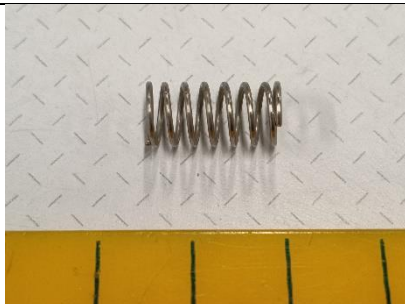
Sample Number	Tested Material Description	Photo
256	Black plastic tube	
257	Beige plastic piece	
258	Grey polymer painting	
259	Black plastic piece	
260	Black plastic component	

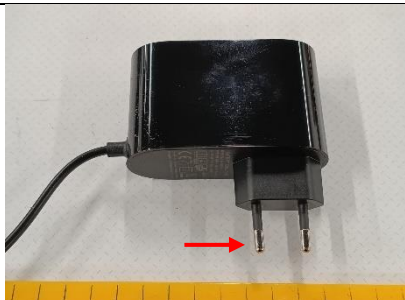
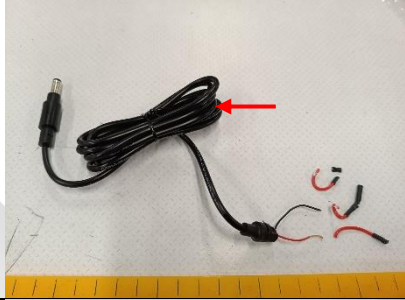
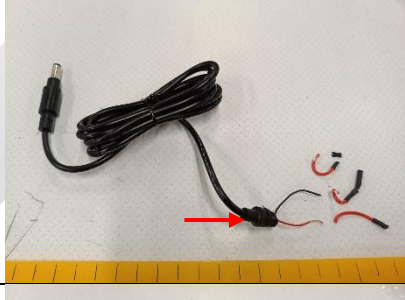
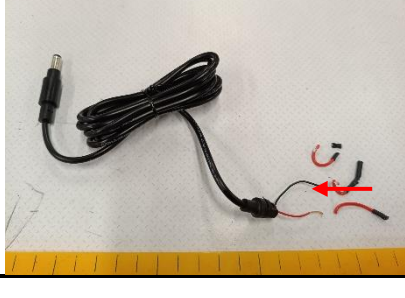
Sample Number	Tested Material Description	Photo
261	Black plastic component	
262	Grey plastic piece	
263	Transparent polymer jacket	
264	Black cord jacket	
265	Silvery grey metal bar	

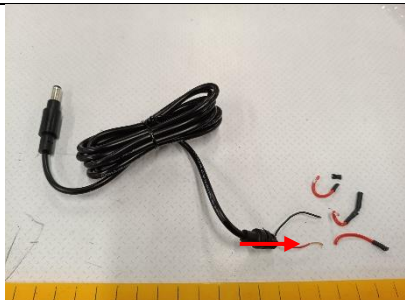
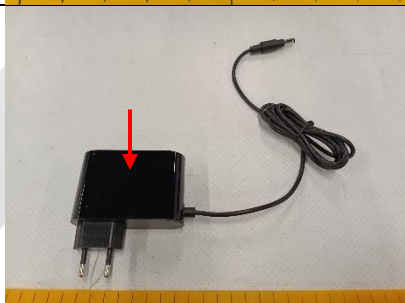
Sample Number	Tested Material Description	Photo
266	Copper piece	
267	Black wire jacket	
268	Red wire jacket	
269	Silvery grey metal pin	
270	Transparent black plastic dust bin	

Sample Number	Tested Material Description	Photo
271	Black plastic piece	
272	Black sponge	
273	Black plastic button	
274	Black plastic component	
275	Black plastic core	

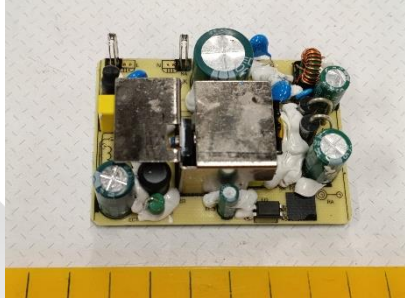
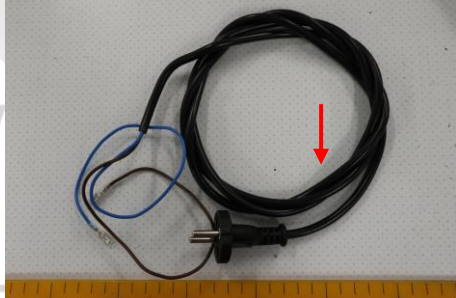
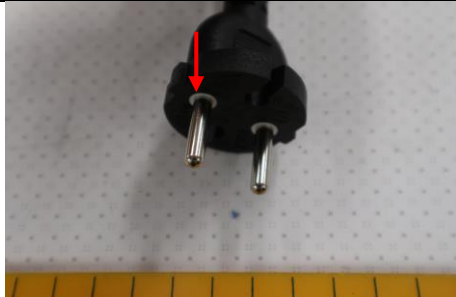
Sample Number	Tested Material Description	Photo
276	Silvery grey stainless steel mesh	
277	Grey polymer filler	
278	Black polymer washer	
279	Black rubber piece	
280	Grey metal spring	

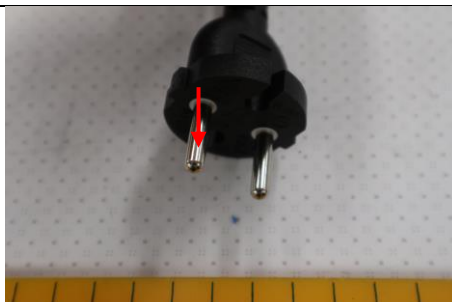
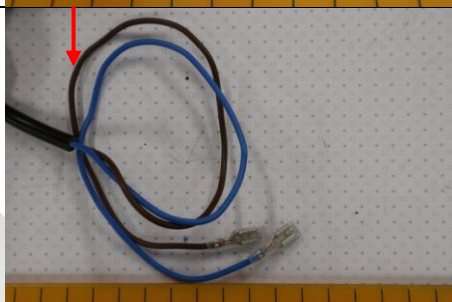
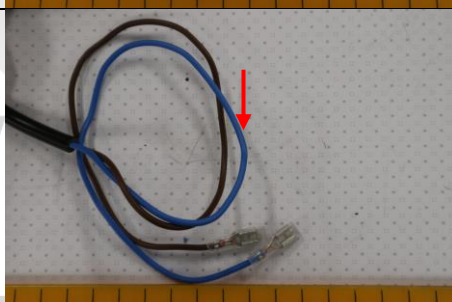
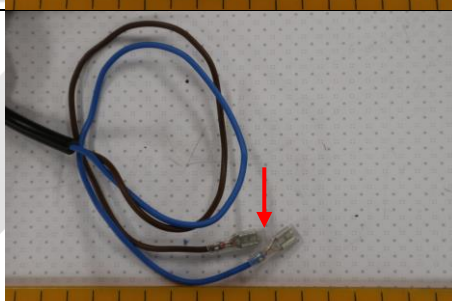
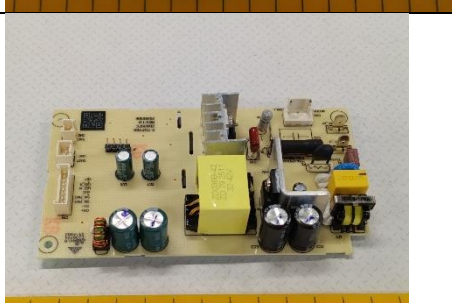
Sample Number	Tested Material Description	Photo
281	Grey metal spring	
282	Black meal screws	
283	Black metal screws	
284	Black metal screws	
285	Black plastic shell	

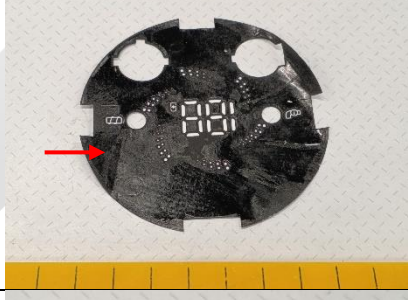
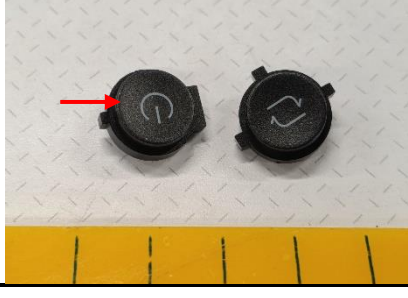
Sample Number	Tested Material Description	Photo
286	Silvery grey plug pin	
287	Black PVC wire jacket	
288	Black plug jacket	
289	Black wire holder jacket	
290	Black wire jacket	

Sample Number	Tested Material Description	Photo
291	Red wire jacket	
292	Black plug pin	
293	PCB board with welded electric component mixed testing as on article	
294	Black plastic shell	
295	Silvery grey plug pin	

Sample Number	Tested Material Description	Photo
296	Black PVC wire jacket	
297	Black plug jacket	
298	Black wire holder jacket	
299	Black wire jacket	
300	Red wire jacket	

Sample Number	Tested Material Description	Photo
301	Black plug pin	
302	PCB board with welded electric component mixed testing as on article	
303	Black PVC cord jacket	
304	Black PVC plug jacket	
305	White PBT plug frame	

Sample Number	Tested Material Description	Photo
306	Silvery grey metal plug pin	
307	Brown wire jacket	
308	Blue wire jacket	
309	Transparent socket jacket	
310	PCB board with welded electric component mixed testing as on article	

Sample Number	Tested Material Description	Photo
311	PCB board with welded electric component mixed testing as on article	
312	Black plastic piece	
313	White plastic frame	
314	Black polymer films	
315	Black plastic button	



2. TEST RESULT(S)

2.1 Screening of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).

Test method: Digested with acid, the elements are analyzed by ICP-OES and UV-VIS.

Organic solvent extraction, GC-MS, LC-MS, HPLC-DAD, GC-ECD analysis

Test Item	Result	
	Sample 001+002+003+004+005+006+007+008+009	Sample 010+011+012+013+014+015+016+017+018
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 019+020+021+022+023+026+027+029+030	Sample 031+032+033+034+036+038+039+040+041
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 043+044+045+046+047+048+049+050+051	Sample 052+053+054+055+056+057+058+059+065
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 067+068+070+071+073+095+096+097+098	Sample 099+100+101+102+103+105+106+107+108
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 109+110+111+112+114+116+117+118+119	Sample 120+121+122+123+124+125+127+128+129
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

2. TEST RESULT(S)

2.1 Screening of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).

Test method: Digested with acid, the elements are analyzed by ICP-OES and UV-VIS.

Organic solvent extraction, GC-MS, LC-MS, HPLC-DAD, GC-ECD analysis

Test Item	Result	
	Sample 130+131+132+133+134+135+136+140+141	Sample 142+143+144+145+146+147+148+149+150
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 151+152+153+154+155+156+157+158+159	Sample 160+161+163+164+165+166+167+168+169
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 171+172+174+179+186+191+192+193+194	Sample 195+196+197+198+199+200+201+202+203
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 204+205+206+207+208+221+222+223+224	Sample 225+227+228+229+233+247+248+249+250
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 251+256+257+258+261+262+263+264+267	Sample 268+270+271+272+273+274+275+277+278
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%



2. TEST RESULT(S)

2.1 Screening of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).

Test method: Digested with acid, the elements are analyzed by ICP-OES and UV-VIS.

Organic solvent extraction, GC-MS, LC-MS, HPLC-DAD, GC-ECD analysis

Test Item	Result	
	Sample 279+285+287+288+289+290+291+294+296	Sample 297+298+299+300
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 024+025+037+042+060+061+062	Sample 063+064+066+069+072+074+075+076+077
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 078+079+080+081+082+083+084+085+086	Sample 087+088+089+090+091+092+093+094+104
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 113+115+126+137+138+139+162+170+173	Sample 175+176+177+178+180+181+182+183+184
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 185+190+209+210+211+212+213+214+215	Sample 216+217+218+219+220+226+230+231+232
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%



2. TEST RESULT(S)

2.1 Screening of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).

Test method: Digested with acid, the elements are analyzed by ICP-OES and UV-VIS.

Organic solvent extraction, GC-MS, LC-MS, HPLC-DAD, GC-ECD analysis

Test Item	Result	
	Sample 234+235+236+237+238+239+240+241+242	Sample 243+244+245+246+255+259+260+265+266
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 269+276+280+281+282+283+284+292+301	Sample 028
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.1%

Test Item	Result	
	Sample 035	Sample 187
Screening of 247 Substances of Very High Concern (SVHC)	< 0.1%	< 0.1%

Test Item	Result	
	Sample 188	Sample 189
Screening of 247 Substances of Very High Concern (SVHC)	< 0.1%	< 0.1%

Test Item	Result	
	Sample 252	Sample 253
Screening of 247 Substances of Very High Concern (SVHC)	< 0.1%	< 0.1%

2. TEST RESULT(S)

2.1 Screening of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).

Test method: Digested with acid, the elements are analyzed by ICP-OES and UV-VIS.

Organic solvent extraction, GC-MS, LC-MS, HPLC-DAD, GC-ECD analysis

Test Item	Result	
	Sample 254	Sample 293
Screening of 247 Substances of Very High Concern (SVHC)	< 0.1%	< 0.1%

Test Item	Result	
	Sample 302	Sample 306
Screening of 247 Substances of Very High Concern (SVHC)	< 0.1%	< 0.1%

Test Item	Result	
	Sample 310	Sample 311
Screening of 247 Substances of Very High Concern (SVHC)	< 0.1%	< 0.1%

Test Item	Result	
	Sample 303+304+305+307+308+309	Sample 312+313+314+315
Screening of 247 Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Test Item	Result	
	Sample 286	Sample 295
Lead (CAS. 7439-92-1)	2.41	2.08%
Other Substances of Very High Concern (SVHC)	< 0.01%	< 0.01%

Note:

TÜV SÜD Certification and Testing (China) Co., Ltd.
 Floor 1-4, Building B, No.37, Tuanjie Road(Middle), Xishan Economic and Technological Development Zone, Wuxi, Jiangsu, 214 101, P. R. China
 Tel.: +86-510-8820-3737 Fax: +86-510-8820-3636
 www.tuv-sud.cn info@tuv-sud.cn

Shanghai Chemical Lab No. 1999 Du Hui Road
 Tel.: +86-21-6037-6501



- Refer to 2.1A for the list of 247 Substances of Very High Concern (SVHC)
- "<" denotes less than



2.1A List of 247 Substances of Very High Concern (SVHC) published by European Chemicals Agency (ECHA) based on regulation (EC) No 1907/2006 (REACH).

Item No.	Tested Items	Classification
1.	Anthracene (CAS No. 120-12-7)	PBT (article 57d)
2.	4,4'- Diaminodiphenylmethane (CAS No. 101-77-9)	Carcinogenic (article 57a)
3.	Cobalt dichloride** (CAS No. 7646-79-9)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
4.	Diarsenic pentaoxide** (CAS No. 1303-28-2)	Carcinogenic (article 57a)
5.	Diarsenic trioxide** (CAS No. 1327-53-3)	Carcinogenic (article 57a)
6.	Lead hydrogen arsenate** (CAS No. 7784-40-9)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
7.	Triethyl arsenate** (CAS No. 15606-95-8)	Carcinogenic (article 57a)
8.	5-tert-butyl-2,4,6-trinitro-m-xylene (CAS No. 81-15-2)	vPvB (article 57e)
9.	Dis (2-ethylhexyl) phthalate (CAS No. 117-81-7)	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
10.	Dibutyl phthalate (CAS No. 84-74-2)	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
11.	Hexabromocyclododecane (CAS No. 25637-99-4)	PBT (article 57d)
12.	Alkanes, C10-13, chloro (CAS No. 85535-84-8)	PBT and vPvB (articles 57 d and 57 e)
13.	Benzyl butyl phthalate (CAS No. 85-68-7)	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
14.	Bis(tributyltin)oxide (CAS No. 56-35-9)	PBT (article 57d)
15.	Sodium dichromate** (CAS No. 7789-12-0)	Carcinogenic, mutagenic and toxic for reproduction (articles 57a, 57b and 57c)
16.	Anthracene oil### (CAS No. 90640-80-5)	Carcinogenic1, PBT and vPvB (articles 57a, 57d and 57e)
17.	Anthracene oil, anthracene paste; distrn. Lights### (CAS No. 91995-17-4)	PBT & vPvB, Carcinogen category 2, Mutagen category 2
18.	Anthracene oil, anthracene paste, anthracene fraction### (CAS No. 91995-15-2)	Carcinogenic2, mutagenic3, PBT and vPvB (articles 57a, 57b, 57d and 57e)
19.	Anthracene oil, anthracene-low### (CAS No. 90640-82-7)	Carcinogenic2, mutagenic3, PBT and vPvB (articles 57a, 57b, 57d and 57e)
20.	Anthracene oil, anthracene paste### (CAS No. 90640-81-6)	Carcinogenic2, mutagenic3, PBT and vPvB (articles 57a, 57b, 57d and 57e)



Item No.	Tested Items	Classification
21.	Coal tar pitch, high temperature (CAS No. 65996-93-2)##	Carcinogenic, PBT and vPvB (articles 57a, 57d and 57e)
22.	2,4-Dinitrotoluene (CAS No. 121-14-2)	Carcinogenic (article 57a)
23.	Diisobutyl phthalate (CAS No. 84-69-5)	Toxic for reproduction (article 57c) Endocrine disrupting properties (Article 57(f) - human health)
24.	Lead chromate** (CAS No. 7758-97-6)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
25.	Lead chromate molybdate sulfate red (C.I. Pigment Red 104)** (CAS No. 12656-85-8)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
26.	Lead sulfochromate yellow (C.I. Pigment Yellow 34)** (CAS No. 1344-37-2)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c))
27.	Tris(2-chloroethyl)phosphate (CAS No. 115-96-8)	Toxic for reproduction (article 57c)
28.	Acrylamide (CAS No. 79-06-01)	Carcinogenic (article 57 a)
29.	Boric acid** (CAS No. 10043-35-3)	Toxic for reproduction (article 57 c)
30.	Disodium tetraborate, anhydrous** (CAS No. 1330-43-4)	Toxic to Reproduction category 2
31.	Teraboron disodium heptaoxide,hydrate** (CAS No. 12267-73-1)	Toxic to Reproduction category 2
32.	Sodium Chromate** (CAS No. 7775-11-3)	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
33.	Potassium Chromate** (CAS No. 7789-00-6)	Carcinogenic and mutagenic (articles 57 a and 57 b).
34.	Ammonium dichromate** (CAS No. 7789-09-5)	Carcinogen Category2; Mutagen Category2; Toxic to Reproduction Category2
35.	Potassium dichromate** (CAS No. 7778-50-9)	Carcinogenic, mutagenic and toxic for reproduction (articles 57 a, 57 b and 57 c)
36.	Trichloroethylene (CAS No. 79-01-6)	Carcinogenic (article 57 a)
37.	Cobalt(II) sulphate** (CAS No. 10124-43-3)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
38.	Cobalt(II) dinitrate** (CAS No. 10141-05-6)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
39.	Cobalt(II) carbonate** (CAS No. 513-79-1)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
40.	Cobalt(II) diacetate**	Carcinogenic and toxic for reproduction



Item No.	Tested Items	Classification
	(CAS No. 71-48-7)	(articles 57 a and 57 c)
41.	2-Methoxyethanol (CAS No. 109-86-4)	Toxic for reproduction (article 57c)
42.	2-Ethoxyethanol (CAS No. 110-80-5)	Toxic for reproduction (article 57c)
43.	Chromium trioxide** (CAS No. 1333-82-0)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
44.	Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid**	Carcinogenic (article 57a)
45.	2-Ethoxyethyl acetate (2-EEA) (CAS No. 111-15-9)	Toxic for reproduction (article 57c)
46.	Strontium chromate** (CAS No. 7789-06-2)	Carcinogenic (article 57a)
47.	1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) (CAS No. 68515-42-4)	Toxic for reproduction (article 57c)
48.	Hydrazine (CAS No. 302-01-2, 7803-57-8)	Carcinogenic (article 57a)
49.	Methyl-2-pyrrolidone (CAS No. 872-50-4)	Toxic for reproduction (article 57c)
50.	1,2,3-Trichloropropane (CAS No. 96-18-4)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
51.	1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich (DIHP) (CAS No. 71888-89-6)	Toxic for reproduction (article 57c)
52.	Zirconia Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium, silicon and zirconium are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm). c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight **	Carcinogenic (article 57 a)
53.	Calcium arsenate** (CAS No. 7778-44-1)	Carcinogenic (article 57 a)



Item No.	Tested Items	Classification
54.	Bis(2-methoxyethyl) ether (CAS No. 111-96-6)	Toxic for reproduction (article 57 c)
55.	Aluminosilicate Refractory Ceramic Fibres are fibres covered by index number 650-017-00-8 in Annex VI, part 3, table 3.1 of Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, and fulfil the three following conditions: a) oxides of aluminium and silicon are the main components present (in the fibres) within variable concentration ranges b) fibres have a length weighted geometric mean diameter less two standard geometric errors of 6 or less micrometres (µm) c) alkaline oxide and alkali earth oxide (Na ₂ O+K ₂ O+CaO+MgO+BaO) content less or equal to 18% by weight **	Carcinogenic (article 57 a)
56.	Potassium hydroxyoctaoxodizincatedichromate** (CAS No. 11103-86-9)	Carcinogenic (article 57 a)
57.	Lead dipicrate** (CAS No. 6477-64-1)	Toxic for reproduction (article 57 c)
58.	N,N-dimethylacetamide (CAS No. 127-19-5)	Toxic for reproduction (article 57 c)
59.	Arsenic acid** (CAS No. 7778-39-4)	Carcinogenic (article 57 a)
60.	2-Methoxyaniline; o-Anisidine (CAS No. 90-04-0)	Carcinogenic (article 57 a)
61.	Trilead diarsenate** (CAS No. 3687-31-8)	Carcinogenic and toxic for reproduction (articles 57 a and 57 c)
62.	1,2-dichloroethane (CAS No. 107-06-2)	Carcinogenic (article 57 a)
63.	Pentazinc chromate octahydroxide** (CAS No. 49663-84-5)	Carcinogenic (article 57 a)
64.	Formaldehyde, oligomeric reaction products with aniline (CAS No. 25214-70-4)	Carcinogenic (article 57 a)
65.	Bis(2-methoxyethyl) phthalate (CAS No. 117-82-8)	Toxic for reproduction (article 57 c)
66.	4-(1,1,3,3-tetramethylbutyl)phenol (CAS No. 140-66-9)	Equivalent level of concern having probable serious effects to the environment (article 57 f)
67.	Lead diazide, Lead azide** (CAS No. 13424-46-9)	Toxic for reproduction (article 57 c),
68.	Phenolphthalein (CAS No. 77-09-8)	Carcinogenic (article 57 a)

Item No.	Tested Items	Classification
69.	Dichromium tris(chromate) (CAS No. 24613-89-6)**	Carcinogenic (article 57 a)
70.	Lead styphnate** (CAS No. 15245-44-0)	Toxic for reproduction (article 57 c)
71.	2,2'-dichloro-4,4'-methylenedianiline (CAS No. 101-14-4)	Carcinogenic (article 57 a)
72.	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C.I. Solvent Blue 4)# (CAS No. 6786-83-0)	Carcinogenic (Article 57a)
73.	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (CAS No. 101-61-1)	Carcinogenic (Article 57a)
74.	1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione (β -TGIC) (CAS No. 59653-74-6)	Mutagenic (Article 57b)
75.	Diboron trioxide** (CAS No. 1303-86-2)	Toxic for reproduction (Article 57 c)
76.	1,2-bis(2-methoxyethoxy)ethane (TEGDME; triglyme) (CAS No. 112-49-2)	Toxic for reproduction (Article 57 c)
77.	4,4'-bis(dimethylamino)-4''-(methylamino)trityl alcohol# (CAS No. 561-41-1)	Carcinogenic (Article 57a)
78.	Lead(II) bis(methanesulfonate)** (CAS No. 17570-76-2)	Toxic for reproduction (Article 57 c)
79.	Formamide (CAS No. 75-12-7)	Toxic for reproduction (Article 57 c)
80.	4-[4,4'-bis(dimethylamino)benzhydrylidene] cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride(C.I. Basic Violet 3)# (CAS No. 548-62-9)	Carcinogenic (Article 57a)
81.	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME) (CAS No. 110-71-4)	Toxic for reproduction (Article 57 c)
82.	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)phenyl]methylene]cyclohexa-2,5-dien-1-ylidene]dimethylammonium chloride (C.I. Basic Blue 26) # (CAS No. 2580-56-5)	Carcinogenic (Article 57a)
83.	1,3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane-2,4,6-trione (TGIC) (CAS No. 2451-62-9)	Mutagenic (Article 57b)
84.	4,4'-bis(dimethylamino)benzophenone (Michler's ketone) (CAS No. 90-94-8)	Carcinogenic (Article 57a)
85.	Pyrochlore, antimony lead yellow** (CAS No. 8012-00-8)	Toxic for reproduction (Article 57 c)
86.	6-methoxy-m-toluidine (p-cresidine) (CAS No. 120-71-8)	Carcinogenic (Article 57a)
87.	Henicosfluoroundecanoic acid (CAS No. 2058-94-8)	vPvB (Article 57 e)
88.	Hexahydromethylphthalic anhydride [1], Hexahydro-4-methylphthalic anhydride [2], Hexahydro-1-methylphthalic anhydride [3], Hexahydro-3-methylphthalic anhydride [4] [The individual isomers [2], [3] and [4] (including their cis- and trans-stereo isomeric forms) and all possible combinations of the isomers [1] are covered by this entry] (CAS No. 25550-51-0, 19438-60-9, 48122-14-1,	Equivalent level of concern having probable serious effects to human health (Article 57 f)



Item No.	Tested Items	Classification
	57110-29-9)	
89.	Cyclohexane-1,2-dicarboxylic anhydride [1], cis-cyclohexane-1,2-dicarboxylic anhydride [2], trans-cyclohexane-1,2-dicarboxylic anhydride [3] [The individual cis- [2] and trans- [3] isomer substances and all possible combinations of the cis- and trans-isomers [1] are covered by this entry] (CAS No. 85-42-7, 13149-00-3, 14166-21-3)	Equivalent level of concern having probable serious effects to human health (Article 57 f)
90.	Dibutyltin dichloride (DBTC) (CAS No. 683-18-1)	Toxic for reproduction (Article 57 c)
91.	Lead bis(tetrafluoroborate)** (CAS No. 13814-96-5)	Toxic for reproduction (Article 57 c)
92.	Lead dinitrate** (CAS No. 10099-74-8)	Toxic for reproduction (Article 57 c)
93.	Silicic acid, lead salt** (CAS No. 11120-22-2)	Toxic for reproduction (Article 57 c)
94.	4-Aminoazobenzene (CAS No. 60-09-3)	Carcinogenic (Article 57a)
95.	Lead titanium zirconium oxide** (CAS No. 12626-81-2)	Toxic for reproduction (Article 57 c)
96.	Lead monoxide (lead oxide)** (CAS No. 1317-36-8)	Toxic for reproduction (Article 57 c)
97.	o-Toluidine (CAS No. 95-53-4)	Carcinogenic (Article 57a)
98.	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine (CAS No. 143860-04-2)	Toxic for reproduction (Article 57 c)
99.	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped [with lead (Pb) content above the applicable generic concentration limit for 'toxicity for reproduction' Repr. 1A (CLP) or category 1 (DSD); the substance is a member of the group entry of lead compounds, with index number 082-001-00-6 in Regulation (EC) No 1272/2008]** (CAS No. 68784-75-8)	Toxic for reproduction (Article 57 c)
100.	Trilead bis(carbonate)dihydroxide** (CAS No. 1319-46-6)	Toxic for reproduction (Article 57 c)
101.	Furan (CAS No. 110-00-9)	Carcinogenic (Article 57a)
102.	N,N-dimethylformamide (CAS No. 68-12-2)	Toxic for reproduction (Article 57 c)
103.	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
104.	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
105.	4,4'-methylenedi-o-toluidine (CAS No. 838-88-0)	Carcinogenic (Article 57a)
106.	Diethyl sulphate (CAS No. 64-67-5)	Carcinogenic (Article 57a); Mutagenic (Article 57b)



Item No.	Tested Items	Classification
107.	Dimethyl sulphate (CAS No. 77-78-1)	Carcinogenic (Article 57a)
108.	Lead oxide sulfate** (CAS No. 12036-76-9)	Toxic for reproduction (Article 57 c)
109.	Lead titanium trioxide** (CAS No. 12060-00-3)	Toxic for reproduction (Article 57 c)
110.	Acetic acid, lead salt, basic** (CAS No. 51404-69-4)	Toxic for reproduction (Article 57 c)
111.	[Phthalato(2-)]dioxotrilead** (CAS No. 69011-06-9)	Toxic for reproduction (Article 57 c)
112.	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE) (CAS No. 1163-19-5)	PBT (Article 57 d); vPvB (Article 57 e)
113.	N-methylacetamide (CAS No. 79-16-3)	Toxic for reproduction (Article 57 c)
114.	Dinoseb (6-sec-butyl-2,4-dinitrophenol) (CAS No. 88-85-7)	Toxic for reproduction (Article 57 c)
115.	1,2-Diethoxyethane (CAS No. 629-14-1)	Toxic for reproduction (Article 57 c)
116.	Tetralead trioxide sulphate** (CAS No. 12202-17-4)	Toxic for reproduction (Article 57 c)
117.	N-pentyl-isopentylphthalate (CAS No. 776297-69-9)	Toxic for reproduction (Article 57 c)
118.	Dioxobis(stearato)trilead** (CAS No. 12578-12-0)	Toxic for reproduction (Article 57 c)
119.	Tetraethyllead** (CAS No. 78-00-2)	Toxic for reproduction (Article 57 c)
120.	Pentalead tetraoxide sulphate** (CAS No. 12065-90-6)	Toxic for reproduction (Article 57 c)
121.	Pentacosafuorotridecanoic acid (CAS No. 72629-94-8)	vPvB (Article 57 e)
122.	Tricosafuorododecanoic acid (CAS No. 307-55-1)	vPvB (Article 57 e)
123.	Heptacosafuorotetradecanoic acid (CAS No. 376-06-7)	vPvB (Article 57 e)
124.	1-bromopropane (n-propyl bromide) (CAS No. 106-94-5)	Toxic for reproduction (Article 57 c)
125.	Methoxyacetic acid (CAS No. 625-45-6)	Toxic for reproduction (Article 57 c)
126.	4-methyl-m-phenylenediamine (toluene-2,4-diamine) (CAS No. 95-80-7)	Carcinogenic (Article 57a)
127.	Methyloxirane (Propylene oxide) (CAS No. 75-56-9)	Carcinogenic (Article 57a); Mutagenic (Article 57b)
128.	Trilead dioxide phosphonate** (CAS No. 12141-20-7)	Toxic for reproduction (Article 57 c)
129.	o-aminoazotoluene (CAS No. 97-56-3)	Carcinogenic (Article 57a)
130.	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear (CAS No. 84777-06-0)	Toxic for reproduction (Article 57 c)

Item No.	Tested Items	Classification
131.	4,4'-oxydianiline and its salts (CAS No. 101-80-4)	Carcinogenic (Article 57a); Mutagenic (Article 57b)
132.	Orange lead (lead tetroxide)** (CAS No. 1314-41-6)	Toxic for reproduction (Article 57 c)
133.	Biphenyl-4-ylamine (CAS No. 92-67-1)	Carcinogenic (Article 57a)
134.	Diisopentylphthalate (CAS No. 605-50-5)	Toxic for reproduction (Article 57 c)
135.	Fatty acids, C16-18, lead salts** (CAS No. 91031-62-8)	Toxic for reproduction (Article 57 c)
136.	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (CAS No. 123-77-3)	Equivalent level of concern having probable serious effects to human health (Article 57 f)
137.	Sulfurous acid, lead salt, dibasic** (CAS No. 62229-08-7)	Toxic for reproduction (Article 57 c)
138.	Lead cyanamidate** (CAS No. 20837-86-9)	Toxic for reproduction (Article 57 c)
139.	Cadmium (CAS No. 7440-43-9)	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
140.	Ammonium pentadecafluorooctanoate (APFO) (CAS No. 3825-26-1)	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
141.	Pentadecafluorooctanoic acid (PFOA) (CAS No. 335-67-1)	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
142.	Dipentyl phthalate (DPP) (CAS No. 131-18-0)	Toxic for reproduction (Article 57 c);
143.	4-Nonylphenol, branched and linear, ethoxylated [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, ethoxylated covering UVCB- and well-defined substances, polymers and homologues, which include any of the individual isomers and/or combinations thereof]	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
144.	Cadmium oxide** (CAS No. 1306-19-0)	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
145.	Cadmium sulphide** (CAS No. 1306-23-6)	Carcinogenic (Article 57a); Equivalent level of concern having probable serious effects to human health (Article 57 f)
146.	Disodium 4-amino-3-[[4'-[(2,4-diaminophenyl)azo][1,1'- biphenyl]-4-yl]azo] -5-hydroxy-6-(phenylazo)naphthalene-2,7- disulphonate (C.I. Direct Black 38) (CAS No. 1937-37-7)	Carcinogenic (Article 57a)
147.	Diethyl phthalate (CAS No. 84-75-3)	Toxic for reproduction (Article 57 c)
148.	Imidazolidine-2-thione; (2-imidazoline-2-thiol) (CAS No. 96-45-7)	Toxic for reproduction (Article 57 c)
149.	Triethyl phosphate (CAS No. 25155-23-1)	Toxic for reproduction (Article 57 c)

Item No.	Tested Items	Classification
150.	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28) (CAS No. 573-58-0)	Carcinogenic (Article 57a)
151.	Lead di(acetate)** (CAS No. 301-04-2)	Toxic for reproduction (Article 57 c);
152.	Cadmium chloride (CAS No. 10108-64-2)	Carcinogenic (Article 57a); Mutagenic (Article 57b); Toxic for reproduction (Article 57c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
153.	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear (CAS No. 68515-50-4)	Toxic for reproduction (Article 57 c)
154.	Sodium peroxometaborate** (CAS No. 7632-04-4)	Toxic for reproduction (Article 57 c)
155.	Sodium perborate; perboric acid, Sodium salt**	Toxic for reproduction (Article 57 c)
156.	Cadmium fluoride** (CAS No. 7790-79-6)	Carcinogenic (Article 57 a); Mutagenic (Article 57 b); Toxic for Reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
157.	Cadmium sulphate** (CAS No. 10124-36-4;31119-53-6)	Carcinogenic (Article 57 a); Mutagenic (article 57 b); Toxic for Reproduction (Article 57 c); Equivalent level of concern having probable serious effects to human health (Article 57 f)
158.	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320) (CAS No. 3846-71-7)	PBT (Article 57 d); vPvB (Article 57 e)
159.	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol(UV-328) (CAS No. 25973-55-1)	PBT (Article 57 d); vPvB (Article 57 e)
160.	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (DOTE) (CAS No. 15571-58-1)	Toxic for Reproduction (Article 57 c)
161.	Reaction mass of 2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate and 2-ethylhexyl 10-ethyl-4-[[2-[(2-ethylhexyl)oxy]-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	Toxic for Reproduction (Article 57 c)
162.	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with $\geq 0.3\%$ of dihexyl phthalate (CAS No. 68515-51-5, 68648-93-1)	Toxic for Reproduction (Article 57 c)
163.	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-yl)-5-methyl-1,3-dioxane [2] [covering any of the individual isomers of [1] and [2] or any combination thereof]	vPvB (Article 57 e)
164.	Perfluorononan-1-oic-acid and its sodium and ammonium salts (CAS No. 375-95-1, 21049-39-8,	Toxic for reproduction (Article 57 c) PBT (Article 57 d)



Item No.	Tested Items	Classification
	4149-60-4)	
165.	Nitrobenzene (CAS No. 98-95-3)	Toxic for reproduction (Article 57 c)
166.	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350) (CAS No. 36437-37-3)	vPvB (Article 57 e)
167.	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327) (CAS No. 3864-99-1)	vPvB (Article 57 e)
168.	1,3-propanesultone (CAS No. 1120-71-4)	Carcinogenic (Article 57 a)
169.	Benzo[def]chrysene (Benzo[a]pyrene) (CAS No. 50-32-8)	Carcinogenic (Article 57 a) Mutagenic (Article 57 b) Toxic for reproduction (Article 57 c); PBT (Article 57 d) vPvB (Article 57 e)
170.	4,4'-isopropylidenediphenol (Bisphenol A, BPA) (CAS No. 80-05-7)	Toxic for reproduction (Article 57 c) Endocrine disrupting properties (Article 57(f) - human health)
171.	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts (CAS No. 335-76-2, 3830-45-3, 3108-42-7)	Toxic for reproduction (Article 57 c); PBT (Article 57 d)
172.	p-(1,1-dimethylpropyl)phenol (pentylphenol, PTAP) (CAS No. 80-46-6)	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
173.	4-Heptylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 7 covalently bound predominantly in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	Equivalent level of concern having probable serious effects to the environment (Article 57 f)
174.	Perfluorohexane-1-sulphonic acid and its salts (PFHxS) (CAS No. 355-46-4)	vPvB (Article 57 e)
175.	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP)[with $\geq 0.1\%$ w/w 4-heptylphenol, branched and linear (4-HPb)]	Endocrine disrupting properties (Article 57(f) - environment)
176.	Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene ("Dechlorane Plus"™)(covering any of its individual anti- and syn-isomers or any combination thereof)	vPvB (Article 57e)
177.	Chrysene (CAS No. 218-01-9, 1719-03-5)	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
178.	Cadmium nitrate (CAS No. 10022-68-1, 10325-94-7)	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
179.	Cadmium hydroxide (CAS No. 21041-95-2)	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)
180.	Cadmium carbonate (CAS No. 513-78-0)	Carcinogenic (Article 57a) Mutagenic (Article 57b) Specific target organ toxicity after repeated exposure (Article 57(f) - human health)



Item No.	Tested Items	Classification
181.	Benz[a]anthracene (CAS No. 56-55-3, 1718-53-2)	Carcinogenic (Article 57a) PBT (Article 57d) vPvB (Article 57e)
182.	Octamethylcyclotetrasiloxane (D4) (CAS No. 556-67-2)	PBT (Article 57d); vPvB (Article 57e)
183.	Decamethylcyclopentasiloxane (D5) (CAS No. 541-02-6)	PBT (Article 57d); vPvB (Article 57e)
184.	Dodecamethylcyclohexasiloxane (D6) (CAS No. 540-97-6)	PBT (Article 57d); vPvB (Article 57e)
185.	Lead (CAS No. 7439-92-1)	Toxic for reproduction (Article 57c)
186.	Disodium octaborate (CAS No. 12008-41-2)	Toxic for reproduction (Article 57c)
187.	Benzo[ghi]perylene (CAS No. 191-24-2)	PBT (Article 57d); vPvB (Article 57e)
188.	Terphenyl hydrogenated (CAS No. 61788-32-7)	vPvB (Article 57e)
189.	Ethylenediamine (EDA) (CAS No. 107-15-3)	Respiratory sensitising properties (Article 57(f) - human health)
190.	Dicyclohexyl phthalate (DCHP) (CAS No. 84-61-7)	Toxic for reproduction (Article 57(c)); endocrine disrupting properties (Article 57(f) - human health)
191.	Benzene-1,2,4-tricarboxylic acid 1,2-anhydride (trimellitic anhydride) (TMA) (CAS No. 552-30-7)	Respiratory sensitising properties (Article 57(f)) – human health
192.	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor) (CAS No. 15087-24-8)	Endocrine disrupting properties (Article 57(f) - environment)
193.	2,2-bis(4'-hydroxyphenyl)-4-methylpentane (CAS No. 6807-17-6)	Toxic for reproduction (Article 57c)
194.	Benzo[k]fluoranthene (CAS No. 207-08-9)	Carcinogenic (Article 57a); PBT (Article 57d); vPvB (Article 57e)
195.	Fluoranthene (CAS No. 206-44-0)	PBT (Article 57d); vPvB (Article 57e)
196.	Phenanthrene (CAS No. 85-01-8)	vPvB (Article 57e)
197.	Pyrene (CAS No. 129-00-0)	PBT (Article 57d); vPvB (Article 57e)
198.	2-methoxyethyl acetate (CAS No. 110-49-6)	Toxic for reproduction (Article 57 (c))
199.	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	Endocrine disrupting properties (Article 57(f) – environment)
200.	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)propionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)	Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment) Equivalent level of concern having probable serious effects to human health (Article 57(f) – human health)
201.	4-tert-butylphenol (CAS No. 98-54-4)	Endocrine disrupting properties (Article 57(f) – environment)



Item No.	Tested Items	Classification
202.	Diisohexyl phthalate (CAS No. 71850-09-4)	Toxic for reproduction (Article 57c)
203.	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone (CAS No. 119313-12-1)	Toxic for reproduction (Article 57c)
204.	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one (CAS No. 71868-10-5)	Toxic for reproduction (Article 57c)
205.	Perfluorobutane sulfonic acid (PFBS) and its salts	Equivalent level of concern having probable serious effects on the environment (Article 57f) Equivalent level of concern having probable serious effects on human health (Article 57f)
206.	1-vinylimidazole (CAS No. 1072-63-5)	Toxic for reproduction (Article 57 (c))
207.	2-methylimidazole (CAS No. 693-98-1)	Toxic for reproduction (Article 57 (c))
208.	Dibutylbis(pentane-2,4-dionato-O,O')tin (CAS No. 22673-19-4)	Toxic for reproduction (Article 57 (c))
209.	Butyl 4-hydroxybenzoate (Butylparaben) (CAS No. 94-26-8)	Endocrine disrupting properties - human health (Article 57(f) – human health)
210.	Bis(2-(2-methoxyethoxy) ethyl) ether (CAS No. 143-24-8)	Toxic for reproduction (Article 57c)
211.	Dioctyltin dilaurate, stannane, dioctyl-, bis(coco acyloxy) derivs., and any other stannane, dioctyl-, bis(fatty acyloxy) derivs. wherein C12 is the predominant carbon number of the fatty acyloxy moiety	Toxic for reproduction (Article 57c)
212.	1,4-dioxane (CAS No. 123-91-1)	Carcinogenic (Article 57a) Equivalent level of concern having probable serious effects to human health (Article 57(f) - human health) Equivalent level of concern having probable serious effects to the environment (Article 57(f) - environment)
213.	2,2-bis(bromomethyl)propane 1,3-diol (BMP) (CAS No. 3296-90-0) 2,2-dimethylpropan-1-ol, tribromoderivative 3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA) (CAS No. 36483-57-5, 1522-92-5) 2,3-dibromo-1propanol (2,3-DBPA) (CAS No. 96-13-9)	Carcinogenic (Article 57a)
214.	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	Toxic for reproduction (Article 57c)
215.	4,4'-(1-methylpropylidene)bisphenol (bisphenol B) (CAS No. 77-40-7)	Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
216.	Glutaral (CAS No. 111-30-8)	Respiratory sensitising properties (Article 57(f) - human health)



Item No.	Tested Items	Classification
217.	Medium-chain chlorinated paraffins (MCCP) [UVCB substances consisting of more than or equal to 80% linear chloroalkanes with carbon chain lengths within the range from C14 to C17]	PBT (Article 57d) vPvB (Article 57e)
218.	Orthoboric acid, sodium salt (CAS No. 13840-56-7)	Toxic for reproduction (Article 57c)
219.	Phenol, alkylation products (mainly in paraposition) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/ or combinations thereof (PDDP)	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
220.	tris(2-methoxyethoxy)vinylsilane (CAS No. 1067-53-4)	Toxic for reproduction (Article 57c)
221.	S-(tricyclo(5.2.1.0'2,6)deca-3-en-8(or 9)-yl O-(isopropyl or isobutyl or 2-ethylhexyl) O-(isopropyl or isobutyl or 2-ethylhexyl) phosphorodithioate (CAS No. 255881-94-8)	PBT (Article 57d)
222.	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol (CAS No. 119-47-1)	Toxic for reproduction (Article 57c)
223.	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methylene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	Endocrine disrupting properties (Article 57(f) - human health)
224.	N-(hydroxymethyl)acrylamide (CAS No. 924-42-5)	Carcinogenic (Article 57a) Mutagenic (Article 57b)
225.	1,1'-[ethane-1,2-diylbisoxo]bis[2,4,6-tribromobenzene] (CAS No. 37853-59-1)	vPvB (Article 57e)
226.	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol (CAS No. 79-94-7)	Carcinogenic (Article 57a)
227.	4,4'-sulphonyldiphenol (CAS No. 80-09-1)	Toxic for reproduction (Article 57c) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
228.	Barium diboron tetraoxide (CAS No. 13701-59-2)	Toxic for reproduction (Article 57c)
229.	Bis(2-ethylhexyl) tetrabromophthalate covering any of the individual isomers and/or combinations thereof	vPvB (Article 57e)
230.	Isobutyl 4-hydroxybenzoate (CAS No. 4247-02-3)	Endocrine disrupting properties (Article 57(f) - human health)
231.	Melamine (CAS No. 108-78-1)	Endocrine disrupting properties (Article 57(f) - environment)



Item No.	Tested Items	Classification
		Endocrine disrupting properties (Article 57(f) - human health)
232.	Perfluoroheptanoic acid and its salts	Toxic for reproduction (Article 57c) PBT (Article 57d) vPvB (Article 57e) Endocrine disrupting properties (Article 57(f) - environment) Endocrine disrupting properties (Article 57(f) - human health)
233.	reaction mass of 2,2,3,3,5,5,6,6-octafluoro-4-(1,1,1,2,3,3,3-heptafluoropropan-2-yl)morpholine and 2,2,3,3,5,5,6,6-octafluoro-4-(heptafluoropropyl)morpholine	vPvB (Article 57e)
234.	Diphenyl(2,4,6- trimethylbenzoyl)phosphine oxide (CAS No. 75980- 60-8)	Toxic for reproduction (Article 57c)
235.	Bis(4-chlorophenyl) sulphone (CAS No. 80-07-9)	vPvB (Article 57e)
236.	Oligomerisation and alkylation reaction products of 2-phenylpropene and phenol	vPvB (Article 57e)
237.	Bumetizole (UV-326) (CAS No.: 3896-11-5)	vPvB (Article 57e)
238.	2-(dimethylamino)-2-[(4-methylphenyl)methyl]-1-[4-(morpholin-4-yl)phenyl]butan-1-one (CAS No.: 119344-86-4)	Toxic for reproduction (Article 57c)
239.	2-(2H-benzotriazol-2-yl)-4-(1,1,3,3-tetramethylbutyl)phenol (UV-329) (CAS No.: 3147-75-9)	vPvB (Article 57e)
240.	2,4,6-tri-tert-butylphenol (CAS No.: 732-26-3)	Toxic for reproduction (Article 57c) PBT (Article 57d)
241.	Bis(α,α-dimethylbenzyl) peroxide (CAS No.: 80-43-3)	Toxic for reproduction (Article 57c)
242.	Triphenyl phosphate (CAS No.: 115-86-6)	Endocrine disrupting properties (Article 57(f) - environment)
243.	6-[(C10-C13)-alkyl-(branched, unsaturated)-2,5-dioxopyrrolidin-1-yl]hexanoic acid (Cas No. 2156592-54-8)	Toxic for reproduction (Article 57c)
244.	O,O,O-triphenyl phosphorothioate (Cas No. 597-82-0)	PBT (Article 57d)
245.	Octamethyltrisiloxane (Cas No. 107-51-7)	vPvB (Article 57e)
246.	Perfluamine (Cas No. 338-83-0)	vPvB (Article 57e)



Item No.	Tested Items	Classification
247.	reaction mass of: triphenylthiophosphate and tertiary butylated phenyl derivatives (Cas No. 192268-65-8)	PBT (Article 57d)

Note:

- Above result for the submitted samples are calculated based on relevant material testing data.
- ** Denotes result is based on the heavy metal or inorganic element concentration. Due to the limit of the analytical technology available, any further investigation is not feasible. The client is strongly advised to review the chemical formulation to ascertain.
- ## The substances are UVCB(substance of unknown or variable composition, complex reaction products or biological materials), which are identified by it main constituents. Individual concentrations to the constituent of UVCB with an amount of <0.01% were not considered by the calculation of the sum.
- # only applicable with $\geq 0.1\%$ of Michler's ketone (CAS No. 90-94-8) or Michler's base (CAS No. 101-61-1)
- The analysis of 247 SVHC is done by currently available test & screening techniques against the SVHC candidate list published by European Chemical Agency (ECHA).
- Refer to <https://echa.europa.eu/candidate-list-table> for details.
- In accordance with Regulation(EC) No 1907/2006, any producer or importer of substances, preparations and articles shall notify ECHA, in accordance with paragraph 4 of Article 7, if a substance meets the criteria in Article 57 and is identified in accordance with Article 59(1), if both the following conditions are met:
The substance is present in those articles in quantities totalling over 1 tonne per producer or importer per year;
- The substance is present in those articles above a concentration of 0.1% weight by weight (w/w).
From 28 October 2008, EU & EEA suppliers whose goods contain substances on the Candidate List in a concentration above 0.1%(w/w) must provide sufficient information to their customers and on request to a consumer within 45 days of the receipt of this request. This information must ensure safe use of the article and, as a minimum, include the name of the substance.
- SCIP Database Submission Obligation: The Article 9(1)(i) of the Waste framework Directive (WFD) requires any supplier of an article to provide the information pursuant to Article 33(1) of the REACH Regulation to the European Chemicals Agency as from 5 January 2021. Article 9(2) of the same Directive sets out that ECHA shall establish a database for the data to be submitted to ECHA pursuant to point (i) of paragraph 1 by 5 January 2020 and maintain it and shall provide access to that database to waste treatment operators and to consumers upon request. The scope of the database focuses on articles as such or in complex objects containing Candidate List substances in a concentration above 0.1% w/w.

APPENDIX I:

Photos of submitted products



Sample Description: Cordless Stick Vacuum Cleaner + Auto-Empty Dock
Model No.: H9A1A+MDS23HRR



Sample Description: Cordless Stick Vacuum Cleaner
Model No.: H10A1A

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