

Test Report No.: **1160051659b 001**

Page 1 of 40

Client: Hangzhou Hikvision Digital Technology Co., Ltd.
No.555 Qianmo Road,Binjiang District Hangzhou310052,China

Test item(s): Mobile Digital Video Recorder

Test Model No(s): DS-MP3516-RH

Reference Style No(s): DS-MP3516-RH/GW,DS-MP3516-RH/GW/WI,
DS-MP3516-RH/GLF,DS-MP3516-RH/GLF/WI,
DS-MP3YYY-WW/AAA/BBB,DS-MP3516-RHUHK,
DS-MP3516-RHCKV,DS-MP3516-RHUVS,
DS-MP3516-RHKVO,DS-MP3516-RHHUN

Sample Receiving date: 2018-09-10

Delivery condition: Apparent good, Samples tested as received

Test specification:

Test result:

Overall results according to tests performed

1. Cadmium, Lead, Chromium (VI), Mercury, Polybrominated biphenyls (PBB) and Polybrominated diphenyl ethers (PBDE) Benzylbutyl phthalate (BBP), Dibutyl phthalate (DBP), Bis(2-ethylhexyl) phthalate (DEHP), Diisobutyl phthalate (DIBP)
According to RoHS (recast): Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment, 2011/65/EU last amended by (EU) 2015/863

PASS

Other Information:

Test period: 2018-09-10 ~2018-10-18

Remark: The testing items in the report were subcontracted to the lab which complied with ISO17025

For and on behalf of
TÜV Rheinland / CCIC (Ningbo) Co., Ltd.



2018-10-19 Tom Xie Department Manager

Date Name/Position

Test result is drawn according to the kind and extent of tests performed.
This test report relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

1. Screening Test by XRF Spectroscopy

 Test Method: Cadmium, Lead, Mercury, Chromium, Bromine
 -With reference to IEC 62321-3-1: 2013

Testing Period: 2018-09-10 ~2018-10-18

Material No.	Description	Result (mg/kg)				
		Cd	Pb	Cr [^]	Hg	Br [^]
1	Silvery metal nut	n.d.	n.d.	n.d.	n.d.	N.A.
2	Silvery metal screw	n.d.	n.d.	d([^] 2)	n.d.	N.A.
3	White bar cord label paper	n.d.	n.d.	n.d.	n.d.	n.d.
4	Black metal shell	n.d.	n.d.	n.d.	n.d.	N.A.
5	Light gray blown sponge	n.d.	n.d.	n.d.	n.d.	n.d.
6	Black metal screw	n.d.	n.d.	d([^] 2)	n.d.	N.A.
7	Silvery metal screw	n.d.	n.d.	d([^] 2)	n.d.	N.A.
8	Gray blown sponge	n.d.	n.d.	n.d.	n.d.	n.d.
9	Dark gray blown sponge	n.d.	n.d.	n.d.	n.d.	n.d.
10	Silvery metal screw	n.d.	n.d.	n.d.	n.d.	N.A.
11	Silvery metal block	n.d.	d([^] 1)	n.d.	n.d.	N.A.
12	Silvery metal screw	n.d.	n.d.	n.d.	n.d.	N.A.
13	Silvery metal ring	n.d.	n.d.	d([^] 2)	n.d.	N.A.
14	Silvery metal button	n.d.	n.d.	n.d.	n.d.	N.A.
15	Silvery metal screw	n.d.	n.d.	d([^] 2)	n.d.	N.A.
16	Golden metal threaded stud	n.d.	d([^] 1)	n.d.	n.d.	N.A.
17	Black plastic shell	n.d.	n.d.	n.d.	n.d.	d([^] 1)
18	Silvery metal shell	n.d.	n.d.	d([^] 2)	n.d.	N.A.
19	Silvery metal button	n.d.	n.d.	d([^] 2)	n.d.	N.A.
20	Black metal shell	n.d.	d([^] 1)	n.d.	n.d.	N.A.
21	Silvery metal frame	n.d.	n.d.	n.d.	n.d.	N.A.
22	Silvery metal screw	n.d.	n.d.	d([^] 2)	n.d.	N.A.
23	Silvery metal screw	n.d.	n.d.	d([^] 2)	n.d.	N.A.
24	Black rubber	n.d.	n.d.	n.d.	n.d.	n.d.
25	Silvery metal ring	n.d.	d([^] 1)	n.d.	n.d.	N.A.
26	SMD IC (6L0)	n.d.	n.d.	n.d.	n.d.	n.d.
27	SMD IC (PI2D8S)	n.d.	n.d.	n.d.	n.d.	n.d.
28	SMD IC (1813)	n.d.	n.d.	n.d.	n.d.	n.d.
29	SMD IC (1811)	n.d.	n.d.	n.d.	n.d.	n.d.
30	Golden metal interface core	n.d.	d([^] 1)	n.d.	n.d.	N.A.
31	Gray ceramic interface	n.d.	n.d.	n.d.	n.d.	N.A.
32	Transparent LED	n.d.	n.d.	n.d.	n.d.	d([^] 1)

Material No.	Description	Result (mg/kg)				
		Cd	Pb	Cr [^]	Hg	Br [^]
33	Beige plastic termianl	n.d.	n.d.	n.d.	n.d.	d(^1)
34	SMD capacitor	n.d.	n.d.	n.d.	n.d.	n.d.
35	Yellow PCB board	n.d.	n.d.	n.d.	n.d.	d(^1)
36	Soldering tin (PCB board)	n.d.	d(^1)	n.d.	n.d.	N.A.
37	Inductor (4R7)	n.d.	n.d.	n.d.	n.d.	N.A.
38	XTL (HLX8C)	n.d.	n.d.	n.d.	n.d.	N.A.
39	SMD audion (GH17K)	n.d.	n.d.	n.d.	n.d.	n.d.
40	Silvery metal pin	n.d.	n.d.	n.d.	n.d.	N.A.
41	Black plastic interface	n.d.	n.d.	n.d.	n.d.	n.d.
42	White filler	n.d.	n.d.	n.d.	n.d.	n.d.
43	Black plastic interface shell	n.d.	n.d.	n.d.	n.d.	n.d.
44	Black plastic wire sleeve	n.d.	n.d.	n.d.	n.d.	n.d.
45	Blue aluminum foil	n.d.	n.d.	n.d.	n.d.	N.A.
46	Transparent plastic wire core	n.d.	n.d.	n.d.	n.d.	n.d.
47	White plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
48	Black plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
49	Brown plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
50	Green plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
51	Black plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
52	Blue plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
53	Silvery metal wire core	n.d.	n.d.	n.d.	n.d.	N.A.
54	Silvery metal screw (draught fan)	n.d.	n.d.	d(^2)	n.d.	N.A.
55	Black plastic shell (draught fan)	n.d.	n.d.	n.d.	n.d.	d(^1)
56	Silvery label paper (draught fan)	n.d.	n.d.	n.d.	n.d.	n.d.
57	Silvery metal shell (draught fan)	n.d.	n.d.	n.d.	n.d.	N.A.
58	Magnet (draught fan)	n.d.	n.d.	n.d.	n.d.	N.A.
59	Black plastic slice (draught fan)	n.d.	n.d.	n.d.	n.d.	n.d.
60	Silvery metal ring (draught fan)	n.d.	n.d.	d(^2)	n.d.	N.A.
61	Golden metal shaft (draught fan)	n.d.	d(^1)	n.d.	n.d.	N.A.
62	Black plastic bobbin (draught fan)	n.d.	n.d.	n.d.	n.d.	d(^1)
63	Coppery winding (draught fan)	n.d.	n.d.	n.d.	n.d.	N.A.
64	Silvery metal shaft (draught fan)	n.d.	n.d.	d(^2)	n.d.	N.A.
65	White plastic slice (draught fan)	n.d.	n.d.	n.d.	n.d.	n.d.
66	Golden metal ring (draught fan)	n.d.	d(^1)	n.d.	n.d.	N.A.
67	Soldering tin (draught fan)	n.d.	d(^1)	n.d.	n.d.	N.A.
68	Blue PCB board (draught fan)	n.d.	n.d.	n.d.	n.d.	d(^1)
69	Red plastic wire sheath (draught fan)	n.d.	n.d.	n.d.	n.d.	n.d.

Material No.	Description	Result (mg/kg)				
		Cd	Pb	Cr [^]	Hg	Br [^]
70	Black plastic wire sheath (draught fan)	n.d.	n.d.	n.d.	n.d.	n.d.
71	White plastic wire sheath (draught fan)	n.d.	n.d.	n.d.	n.d.	n.d.
72	Black plastic sleeve (draught fan)	n.d.	n.d.	n.d.	n.d.	d(^1)
73	SMD IC (STM32FL05)	n.d.	n.d.	n.d.	n.d.	n.d.
74	SMD IC (SEC 810)	n.d.	n.d.	n.d.	n.d.	n.d.
75	SMD IC (KY-2015-1)	n.d.	n.d.	n.d.	n.d.	n.d.
76	SMD IC (88E6096)	n.d.	n.d.	n.d.	n.d.	n.d.
77	GROUP-TEK	n.d.	n.d.	n.d.	n.d.	n.d.
78	Gray inductor (4R7)	n.d.	n.d.	n.d.	n.d.	N.A.
79	Blue plastic shell (Electrolytic capacitor)	n.d.	n.d.	n.d.	n.d.	n.d.
80	Black plastic interface	n.d.	n.d.	n.d.	n.d.	d(^1)
81	Brown plastic shell (Electrolytic capacitor)	n.d.	n.d.	n.d.	n.d.	n.d.
82	Silvery metal shell (Electrolytic capacitor)	n.d.	n.d.	n.d.	n.d.	N.A.
83	Glass diode	n.d.	d(^1)	n.d.	n.d.	N.A.
84	SMD capacitor (010)	n.d.	n.d.	n.d.	n.d.	n.d.
85	Relay	n.d.	n.d.	n.d.	n.d.	d(^1)
86	Black plastic interface	n.d.	n.d.	n.d.	n.d.	d(^1)
87	Yellow plastic button	n.d.	n.d.	n.d.	n.d.	n.d.
88	Golden metal pin	n.d.	d(^1)	n.d.	n.d.	N.A.
89	Silvery metal nut	n.d.	d(^1)	n.d.	n.d.	N.A.
90	SMD diode (1804)	n.d.	n.d.	n.d.	n.d.	n.d.
91	Green PCB board	n.d.	n.d.	n.d.	n.d.	n.d.
92	Coppery foil (PCB board)	n.d.	n.d.	n.d.	n.d.	N.A.
93	Soldering tn (PCB board)	n.d.	d(^1)	n.d.	n.d.	N.A.
94	SMD capacitor	n.d.	n.d.	n.d.	n.d.	n.d.
95	Silvery metal interface	n.d.	n.d.	n.d.	n.d.	N.A.
96	Blue plastic interface core	n.d.	n.d.	n.d.	n.d.	d(^1)
97	White LED	n.d.	n.d.	n.d.	n.d.	d(^1)
98	Golden metal interface shell	n.d.	d(^1)	n.d.	n.d.	N.A.
99	Black plastic shell (buzzer)	n.d.	n.d.	n.d.	n.d.	d(^1)
100	Blue winding (buzzer)	n.d.	n.d.	n.d.	n.d.	N.A.
101	Silvery metal bobbin (buzzer)	n.d.	n.d.	n.d.	n.d.	N.A.
102	Magnet (buzzer)	n.d.	n.d.	n.d.	n.d.	N.A.
103	Silvery metal slice (buzzer)	n.d.	n.d.	n.d.	n.d.	N.A.
104	Green PCB board (buzzer)	n.d.	n.d.	n.d.	n.d.	n.d.
105	Soldering tin (buzzer)	n.d.	d(^1)	n.d.	n.d.	N.A.
106	Squelch filter (DNM01)	n.d.	n.d.	n.d.	n.d.	d(^1)

Material No.	Description	Result (mg/kg)				
		Cd	Pb	Cr [^]	Hg	Br [^]
107	Green magnetic ring (inductor)	n.d.	n.d.	n.d.	n.d.	N.A.
108	Copper winding (inductor)	n.d.	n.d.	n.d.	n.d.	N.A.
109	Green winding (inductor)	n.d.	n.d.	n.d.	n.d.	N.A.
110	SMD diode (1N5384B)	n.d.	n.d.	n.d.	n.d.	d(^1)
111	SMD diode (1N5)	n.d.	n.d.	n.d.	n.d.	d(^1)
112	Gray capacitor (MKP25)	n.d.	n.d.	n.d.	n.d.	d(^1)
113	Silvery metal cap (fuse)	n.d.	n.d.	n.d.	n.d.	N.A.
114	Transparent glass tube (fuse)	n.d.	n.d.	n.d.	n.d.	N.A.
115	Yellow capacitor	n.d.	n.d.	n.d.	n.d.	n.d.
116	PTH096082	n.d.	n.d.	n.d.	n.d.	n.d.
117	White ceramic slice	n.d.	n.d.	n.d.	n.d.	N.A.
118	Brown capacitor	n.d.	n.d.	n.d.	n.d.	n.d.
119	Black inductor (100)	n.d.	n.d.	n.d.	n.d.	N.A.
120	Black metal heating panel	n.d.	n.d.	n.d.	n.d.	N.A.
121	SMD audion	n.d.	n.d.	n.d.	n.d.	d(^1)
122	Chromatic ring resistor	n.d.	n.d.	n.d.	n.d.	n.d.
123	Blue varistor	n.d.	n.d.	n.d.	n.d.	n.d.
124	Transparent plastic sleeve	n.d.	n.d.	n.d.	n.d.	n.d.
125	Beige plastic shell	n.d.	n.d.	n.d.	n.d.	d(^1)
126	SMD capacitor (686E)	n.d.	n.d.	n.d.	n.d.	n.d.
127	SMD IC (IRFD210)	n.d.	n.d.	n.d.	n.d.	d(^1)
128	Yellow capacitor	n.d.	n.d.	n.d.	n.d.	n.d.
129	Black plastic sleeve	n.d.	n.d.	n.d.	n.d.	d(^1)
130	White glue	n.d.	n.d.	n.d.	n.d.	n.d.
131	Pink blown sponge	n.d.	n.d.	n.d.	n.d.	n.d.
132	Silvery metal cover	n.d.	n.d.	d(^2)	n.d.	N.A.
133	Black plastic frame	n.d.	n.d.	n.d.	n.d.	n.d.
134	White plastic frame	n.d.	n.d.	n.d.	n.d.	d(^1)
135	Silvery foil (PCB board)	n.d.	n.d.	n.d.	n.d.	N.A.
136	Green PCB board	n.d.	n.d.	n.d.	n.d.	d(^1)
137	Soldering tin (PCB board)	n.d.	d(^1)	n.d.	n.d.	N.A.
138	Yellow glue	n.d.	n.d.	n.d.	n.d.	n.d.
139	Black blown sponge	n.d.	n.d.	n.d.	n.d.	n.d.
140	Transparent plastic cable clip	n.d.	n.d.	n.d.	n.d.	n.d.
141	Green plastic shell (Electrolytic capacitor)	n.d.	n.d.	n.d.	n.d.	n.d.
142	Silvery metal screw	n.d.	n.d.	d(^2)	n.d.	N.A.
143	Green PCB board	n.d.	n.d.	n.d.	n.d.	d(^1)

Material No.	Description	Result (mg/kg)				
		Cd	Pb	Cr [^]	Hg	Br [^]
144	Soldering tin (PCB board)	n.d.	d(^1)	n.d.	n.d.	N.A.
145	Black rubber stopper	n.d.	n.d.	n.d.	n.d.	n.d.
146	Silvery metal threaded stud	n.d.	n.d.	n.d.	n.d.	N.A.
147	Silvery metal shell	n.d.	n.d.	n.d.	n.d.	N.A.
148	White plastic terminal	n.d.	n.d.	n.d.	n.d.	n.d.
149	Yellow plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
150	Black plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
151	Rose red plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
152	Soldering tin	n.d.	d(^1)	n.d.	n.d.	N.A.
153	Silvery metal pin	n.d.	d(^1)	n.d.	n.d.	N.A.
154	Black plastic plug core	n.d.	n.d.	n.d.	n.d.	n.d.
155	Silvery metal plug shell	n.d.	n.d.	n.d.	n.d.	N.A.
156	Silvery metal nut	n.d.	d(^1)	n.d.	n.d.	N.A.
157	Silvery metal ring	n.d.	n.d.	n.d.	n.d.	N.A.
158	Black plastic sleeve	n.d.	n.d.	n.d.	n.d.	n.d.
159	Yellow plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
160	Red plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
161	Soldering tin	n.d.	d(^1)	n.d.	n.d.	N.A.
162	Blue plastic plug core	n.d.	n.d.	n.d.	n.d.	n.d.
163	Silvery metal pin	n.d.	n.d.	n.d.	n.d.	N.A.
164	Silvery metal plug shell	n.d.	n.d.	n.d.	n.d.	N.A.
165	Silvery metal screw	n.d.	n.d.	n.d.	n.d.	N.A.
166	Silvery metal nut	n.d.	n.d.	n.d.	n.d.	N.A.
167	Black plastic plug shell	n.d.	n.d.	n.d.	n.d.	n.d.
168	Black plastic terminal	n.d.	n.d.	n.d.	n.d.	n.d.
169	Brown plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
170	Orange plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
171	Black plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
172	Red plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
173	Yellow plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
174	Silvery metal key	n.d.	d(^1)	n.d.	n.d.	N.A.
175	Black plastic key sleeve	n.d.	n.d.	n.d.	n.d.	n.d.
176	Silvery metal ring	n.d.	n.d.	n.d.	n.d.	N.A.
177	Silvery metal screw	n.d.	n.d.	d(^2)	n.d.	N.A.
178	Black metal frame	n.d.	n.d.	n.d.	n.d.	N.A.
179	Orange plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
180	Blue plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.

Material No.	Description	Result (mg/kg)				
		Cd	Pb	Cr [^]	Hg	Br [^]
181	Black plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
182	Red plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
183	Yellow plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
184	White label paper	n.d.	n.d.	n.d.	n.d.	n.d.
185	Black plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
186	Yellow plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
187	Blue plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
188	Rose red plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
189	Black plastic plug shell	n.d.	n.d.	n.d.	n.d.	n.d.
190	Silvery metal plug shell	n.d.	n.d.	n.d.	n.d.	N.A.
191	Silvery metal screw	n.d.	n.d.	n.d.	n.d.	N.A.
192	Silvery metal pin	n.d.	n.d.	n.d.	n.d.	N.A.
193	Silvery metal screw	n.d.	n.d.	n.d.	n.d.	N.A.
194	White filler	n.d.	n.d.	n.d.	n.d.	n.d.
195	Black plastic plug shell	n.d.	n.d.	n.d.	n.d.	n.d.
196	Red plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
197	Black plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
198	White plastic plug core	n.d.	n.d.	n.d.	n.d.	n.d.
199	Golden metal pin	n.d.	n.d.	n.d.	n.d.	N.A.
200	Golden metal plug shell	n.d.	n.d.	n.d.	n.d.	N.A.
201	Silvery metal button	n.d.	n.d.	n.d.	n.d.	N.A.
202	Red plastic sleeve	n.d.	n.d.	n.d.	n.d.	n.d.
203	Black plastic wire sleeve	n.d.	n.d.	n.d.	n.d.	n.d.
204	Black plastic shell	n.d.	n.d.	n.d.	n.d.	n.d.
205	Magnet	n.d.	n.d.	n.d.	n.d.	N.A.
206	Silvery sticker	n.d.	n.d.	n.d.	n.d.	n.d.
207	Silvery metal frame	n.d.	n.d.	n.d.	n.d.	N.A.
208	Green PCB board	n.d.	n.d.	n.d.	n.d.	n.d.
209	SMD resistor (153)	n.d.	n.d.	n.d.	n.d.	n.d.
210	Soldering tin (PCB board)	n.d.	d(^1)	n.d.	n.d.	N.A.
211	Yellow cerameic board	n.d.	n.d.	n.d.	n.d.	N.A.
212	Silvery coating	n.d.	n.d.	n.d.	n.d.	N.A.
213	Soldering tin	n.d.	d(^1)	n.d.	n.d.	N.A.
214	Black plastic wire sleeve	n.d.	n.d.	n.d.	n.d.	n.d.
215	Transparent plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
216	Coppery metal wire core	n.d.	n.d.	n.d.	n.d.	N.A.
217	Green plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.

Material No.	Description	Result (mg/kg)				
		Cd	Pb	Cr^	Hg	Br^
218	Orange plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
219	Yellow plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
220	White plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
221	Black heat-shrinkable sleeve	n.d.	n.d.	n.d.	n.d.	n.d.
222	Black plastic wire sleeve	n.d.	n.d.	n.d.	n.d.	n.d.
223	Brown plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
224	Green plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
225	White plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
226	Blue plastic wire sheath	n.d.	n.d.	n.d.	n.d.	n.d.
227	Black plastic wire sleeve	n.d.	n.d.	n.d.	n.d.	n.d.
228	Silvery metal core ribbon	n.d.	n.d.	n.d.	n.d.	N.A.
229	Black plastic sleeve ribbon	n.d.	n.d.	n.d.	n.d.	n.d.
230	Silvery metal plug shell	n.d.	n.d.	n.d.	n.d.	N.A.
231	Black plastic plug core	n.d.	n.d.	n.d.	n.d.	n.d.
232	Soldering tin	n.d.	n.d.	n.d.	n.d.	N.A.
233	Silvery metal pin	n.d.	d(^1)	n.d.	n.d.	N.A.
234	White filler	n.d.	n.d.	n.d.	n.d.	n.d.
235	Black plastic plug shell	n.d.	n.d.	n.d.	n.d.	n.d.

Abbreviation:

Pb	denotes Lead
Cd	denotes Cadmium
Hg	denotes Mercury
Cr	denotes Chromium
Cr(VI)	denotes Chromium(VI)
Br	denotes Bromine
PBBs	denotes Total Polybrominated Biphenyls
PBDEs	denotes Total Polybrominated Diphenyl Ethers
<	denotes less than
N.A.	denotes Not Applicable
n.d.	denotes Not Detected
d	denotes Detected

Remark:

(^1) The screening result was found in the inconclusive region (X), thus the further wet chemistry tests are suggested.

(^2) The Chromium (VI) content in surface layer has been confirmed with reference to IEC 62321-7-1: 2015.

XRF Screening limits for different materials:

Materials	Concentration (mg/kg)				
	Cd	Cr	Pb	Hg	Br
Metallic material	P≤ 60 < X ≤140 < F	P≤ 640 < X	P≤ 670 < X≤1360 < F	P≤ 660 < X≤1340 < F	NA
Polymeric material	P≤ 60 < X ≤140 < F	P≤ 640 < X	P≤ 670 < X≤1360 < F	P≤ 660 < X≤1340 < F	P≤ 290 < X
Electronic material	P≤ 40 < X ≤160 < F	P≤ 440 < X	P≤ 470 < X≤1640 < F	P≤460 < X≤1540 < F	P≤ 240 < X

2. Confirmation Test by Wet Chemistry

Test Method: Total Cadmium, Lead, Mercury, Chromium
 -Ref. to IEC 62321-4: 2013+AMD1:2017 & IEC 62321-5: 2013
 Chromium (VI)
 - For Metal material - Ref. to IEC 62321-7-1: 2015
 - For Plastic or Electronic material – Ref. to IEC 62321-7-2:2017
 - For Leather material - Ref. to ISO 17075: 2007
 PBBs, PBDEs – Ref. to IEC 62321-6: 2015
 Testing Period: 2018-09-10 ~2018-10-18

Material list:

Material No.	Material	Color	Test Plan
			A=Test HM only B=Test FR only C=Test HM+FR
2	metal	silvery	A
6	metal	black	A
7	metal	silvery	A
11	metal	silvery	A
13	metal	silvery	A
15	metal	silvery	A
16	metal	golden	A
17	plastic	black	B
18	metal	silvery	A
19	metal	silvery	A
20	metal	black	A
22	metal	silvery	A
23	metal	silvery	A
25	metal	silvery	A
30	metal	golden	A
32	plastic	transparent	B
33	plastic	beige	B
35	PCB	yellow	B
36	solder	silvery	A
54	metal	silvery	A
55	plastic	black	B
60	metal	silvery	A

Material No.	Material	Color	Test Plan
			A=Test HM only B=Test FR only C=Test HM+FR
61	metal	golden	A
62	plastic	black	B
64	metal	silvery	A
66	metal	golden	A
67	solder	silvery	A
68	PCB	blue	B
72	plastic	black	B
80	plastic	black	B
83	electronic component	red	A
85	electronic component	black	B
86	plastic	black	B
88	metal	golden	A
89	metal	silvery	A
93	solder	silvery	A
96	plastic	blue	B
97	plastic	white	B
98	metal	golden	A
99	plastic	black	B
105	solder	silvery	A
106	electronic component	black	B
110	electronic component	black	B
111	electronic component	black	B
112	electronic component	gray	B
121	electronic component	black	B
125	plastic	beige	B
127	electronic component	black	B
129	plastic	black	B
132	metal	silvery	A
134	plastic	white	B
136	PCB	green	B
137	solder	silvery	A

Material No.	Material	Color	Test Plan
			A=Test HM only B=Test FR only C=Test HM+FR
142	metal	silvery	A
143	PCB	green	B
144	solder	silvery	A
152	solder	silvery	A
153	metal	silvery	A
156	metal	silvery	A
161	solder	silvery	A
174	metal	silvery	A
177	metal	silvery	A
210	solder	silvery	A
213	solder	silvery	A
233	solder	silvery	A

Abbreviation: HM (Heavy metal) = Cd, Pb, Hg, Cr (VI)
 FR (Flame Retardant) = PBBs, PBDEs

Test result:

	Cd	Pb	Cr (VI)	Hg	PBBs	PBDEs
Maximum Permissible Limit (%)	0.01	0.1	0.1	0.1	0.1	0.1

Material No.	Results (%)					
	Cd	Pb	Cr ^{VI}	Hg	PBBs ^(*)	PBDEs ^(*)
	RL (%)					
	0.001	0.001	0.001	0.001	0.0005	0.0005
11	N.A.	0.0209	N.A.	N.A.	N.A.	N.A.
16	N.A.	1.0070 ^[6(c)]	N.A.	N.A.	N.A.	N.A.
17	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
20	N.A.	0.0477	N.A.	N.A.	N.A.	N.A.
25	N.A.	1.7801 ^[6(c)]	N.A.	N.A.	N.A.	N.A.
30	N.A.	3.7702 ^[6(c)]	N.A.	N.A.	N.A.	N.A.
32	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
33	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
35	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
36	N.A.	0.0185	N.A.	N.A.	N.A.	N.A.
55	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
61	N.A.	2.0492 ^[6(c)]	N.A.	N.A.	N.A.	N.A.
62	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
66	N.A.	1.9925 ^[6(c)]	N.A.	N.A.	N.A.	N.A.
67	N.A.	0.0105	N.A.	N.A.	N.A.	N.A.
68	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
72	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
80	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
83	N.A.	30.1742 ^[7(c)-1]	N.A.	N.A.	N.A.	N.A.
85	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
86	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
88	N.A.	2.1373 ^[6(c)]	N.A.	N.A.	N.A.	N.A.
89	N.A.	1.8278 ^[6(c)]	N.A.	N.A.	N.A.	N.A.
93	N.A.	0.0058	N.A.	N.A.	N.A.	N.A.
96	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
97	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.

Material No.	Results (%)					
	Cd	Pb	Cr [^]	Hg	PBBs ^(*)	PBDEs ^(*)
	RL (%)					
	0.001	0.001	0.001	0.001	0.0005	0.0005
98	N.A.	2.0966 ^[6(c)]	N.A.	N.A.	N.A.	N.A.
99	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
105	N.A.	0.0051	N.A.	N.A.	N.A.	N.A.
106	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
110	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
111	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
112	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
121	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
125	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
127	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
129	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
134	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
136	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
137	N.A.	0.0609	N.A.	N.A.	N.A.	N.A.
143	N.A.	N.A.	N.A.	N.A.	N.D.	N.D.
144	N.A.	0.0707	N.A.	N.A.	N.A.	N.A.
152	N.A.	0.0018	N.A.	N.A.	N.A.	N.A.
153	N.A.	2.7464 ^[6(c)]	N.A.	N.A.	N.A.	N.A.
156	N.A.	2.5183 ^[6(c)]	N.A.	N.A.	N.A.	N.A.
161	N.A.	0.0117	N.A.	N.A.	N.A.	N.A.
174	N.A.	2.4261 ^[6(c)]	N.A.	N.A.	N.A.	N.A.
210	N.A.	0.0170	N.A.	N.A.	N.A.	N.A.
213	N.A.	0.0073	N.A.	N.A.	N.A.	N.A.
233	N.A.	0.0068	N.A.	N.A.	N.A.	N.A.

Material no.	Hexavalent Chromium Content ($\mu\text{g}/\text{cm}^2$) ^(*)
	RL: 0.10 $\mu\text{g}/\text{cm}^2$
2	Negative
6	Negative
7	Negative
13	Negative
15	Negative
18	Negative
19	Negative
22	Negative
23	Negative
54	Negative
60	Negative
64	Negative
132	Negative
142	Negative
177	Negative

Abbreviation:

Pb	denotes Lead
Cd	denotes Cadmium
Hg	denotes Mercury
Cr	denotes Chromium
Cr(VI)	denotes Chromium(VI)
PBBs	denotes Total Polybrominated Biphenyls
PBDEs	denotes Total Polybrominated Diphenyl Ethers
N.D.	denotes Not Detected
RL	denotes Reporting Limit
N.A.	denotes Not Applicable
^	The total Chromium have been determined
%	denotes percentage

Remark:

1. Component(s)/ materials(s) with an area of less than 2mm x 2mm will not be selected for testing according to RoHS Directive 2011/65/EU due to technical reason.
2. For the test sample does not have detail materials information provided by client, visually identical materials (e.g. wire insulation, solder points, etc.) will be considered as the same material.
3. Solder points on a printing circuit board will be examined several times based on optical anomalies or discoloration of the solder point(s) unless the solder point(s) is obviously generated automatically during production.
4. All other materials will be sampled and tested at one test point representatively.

(*1) The total chromium content in Metal sample was found to be exceeded the maximum permissible limit (0.1%). Thus, the Chromium (VI) content in surface layer have been confirmed with reference to IEC 62321-7-1: 2015 Annex.

	Chromium (VI) concentration	Qualitative result
Negative	<0.1µg/cm ²	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 ² and ≤0.13 µg/cm ²	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 ²	The sample is positive for Cr(VI). –The Cr(VI) concentration is above the limit of quantification and the statistical margin of error. The sample coating is considered to contain Cr(VI).

(*2) The total chromium content in plastic sample or electronic sample was found to be exceeded the maximum permissible limit (0.1%). Thus, the Chromium (VI) content have been confirmed with reference to IEC 62321-7-2:2017.

(*3) The total chromium content in leather sample was found to be exceeded the maximum permissible limit (0.1%). Thus, the Chromium (VI) content have been confirmed with reference to ISO 17075: 2007.

(*4) The result was found to be more than the maximum permissible limit.

(*5) The plating / coating of all the metal sample(s) is not confirmed, it cannot be further mechanically disjoined into different materials.

(*6) For this mixed sample, the result was found to be more than the maximum permissible limit. It's recommended that individual sample should be tested separately.

(*7) Due to the lack of samples the client submitted, the reporting limit is scaled up to 0.005/0.01/0.05/0.1%.

(*) The reporting limit for each individual PBBs and individual PBDEs are:

Reporting Limit (%)		
PBBs	Monbromobiphenyl	0.0001
	Dibromobiphenyl	0.0001
	Tribromobiphenyl	0.0001
	Tetrabromobiphenyl	0.0001
	Pentabromobiphenyl	0.0002
	Hexabromobiphenyl	0.0002
	Heptabromobiphenyl	0.0002
	Octabromobiphenyl	0.0005
	Nonabromobiphenyl	0.0005
	Decabromobiphenyl	0.0005
PBDEs	Monbromodiphenyl ether	0.0001
	Dibromodiphenyl ether	0.0001
	Tribromodiphenyl ether	0.0001
	Tetrabromodiphenyl ether	0.0001
	Pentabromodiphenyl ether	0.0002
	Hexabromodiphenyl ether	0.0002
	Heptabromodiphenyl ether	0.0002
	Octabromodiphenyl ether	0.0005
	Nonabromodiphenyl ether	0.0005
	Decabromodiphenyl ether	0.0005

6(c) Copper alloy containing up to 4 % lead by weight.

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.

3. BBP, DBP, DEHP, DIBP content

Test method: Organic solvent extraction, analyzed by GCMS (Ref. to DIN EN 62321-8: 2014 (IEC 111/321/CD: 2013))

Testing Period: 2018-09-10 ~2018-10-18

Test result:

	BBP	DBP	DEHP	DIBP
Maximum permissible Limit (%)	0.1	0.1	0.1	0.1

Test No.	Material No.	Results (%)			
		BBP	DBP	DEHP	DIBP
		RL (%)			
		0.005	0.005	0.005	0.005
T001	5+8+9	n.d.	n.d.	n.d.	n.d.
T002	131+139	n.d.	n.d.	n.d.	n.d.
T003	24+145	n.d.	n.d.	n.d.	n.d.
T004	17+175+204	n.d.	n.d.	n.d.	n.d.
T005	33+35+41	n.d.	n.d.	n.d.	n.d.
T006	42+43+44	n.d.	n.d.	n.d.	n.d.
T007	46+47+48	n.d.	n.d.	n.d.	n.d.
T008	49+50	n.d.	n.d.	n.d.	n.d.
T009	51+52	n.d.	n.d.	n.d.	n.d.
T010	55+56+59	n.d.	n.d.	n.d.	n.d.
T011	62+68+69	n.d.	n.d.	n.d.	n.d.
T012	70+71+72	n.d.	n.d.	n.d.	n.d.
T013	79+80+81	n.d.	n.d.	n.d.	n.d.
T014	86+87+91	n.d.	n.d.	n.d.	n.d.
T015	96+99+104	n.d.	n.d.	n.d.	n.d.
T016	124+125+129	n.d.	n.d.	n.d.	n.d.
T017	130+133+134	n.d.	n.d.	n.d.	n.d.
T018	138+140	n.d.	n.d.	n.d.	n.d.
T019	141+143	n.d.	n.d.	n.d.	n.d.
T020	148+149+150	n.d.	n.d.	n.d.	n.d.
T021	151+158	n.d.	n.d.	n.d.	n.d.
T022	159+160	n.d.	n.d.	n.d.	n.d.
T023	154+162+167	n.d.	n.d.	n.d.	n.d.
T024	168+169+170	n.d.	n.d.	n.d.	n.d.
T025	171+172+173	n.d.	n.d.	n.d.	n.d.
T026	179+180+181	n.d.	n.d.	n.d.	n.d.
T027	182+183+184	n.d.	n.d.	n.d.	n.d.
T028	185+186+187	n.d.	n.d.	n.d.	n.d.
T029	188+189+197	n.d.	n.d.	n.d.	n.d.

Test No.	Material No.	Results (%)			
		BBP	DBP	DEHP	DIBP
		RL (%)			
		0.005	0.005	0.005	0.005
T030	189+194+195	n.d.	n.d.	n.d.	n.d.
T031	198+202+203	n.d.	n.d.	n.d.	n.d.
T032	3+206+208	n.d.	n.d.	n.d.	n.d.
T033	214+215	n.d.	n.d.	n.d.	n.d.
T034	217+218+219	n.d.	n.d.	n.d.	n.d.
T035	220+221+222	n.d.	n.d.	n.d.	n.d.
T036	223+224+225	n.d.	n.d.	n.d.	n.d.
T037	226+227+229	n.d.	n.d.	n.d.	n.d.
T038	231+234+235	n.d.	n.d.	n.d.	n.d.

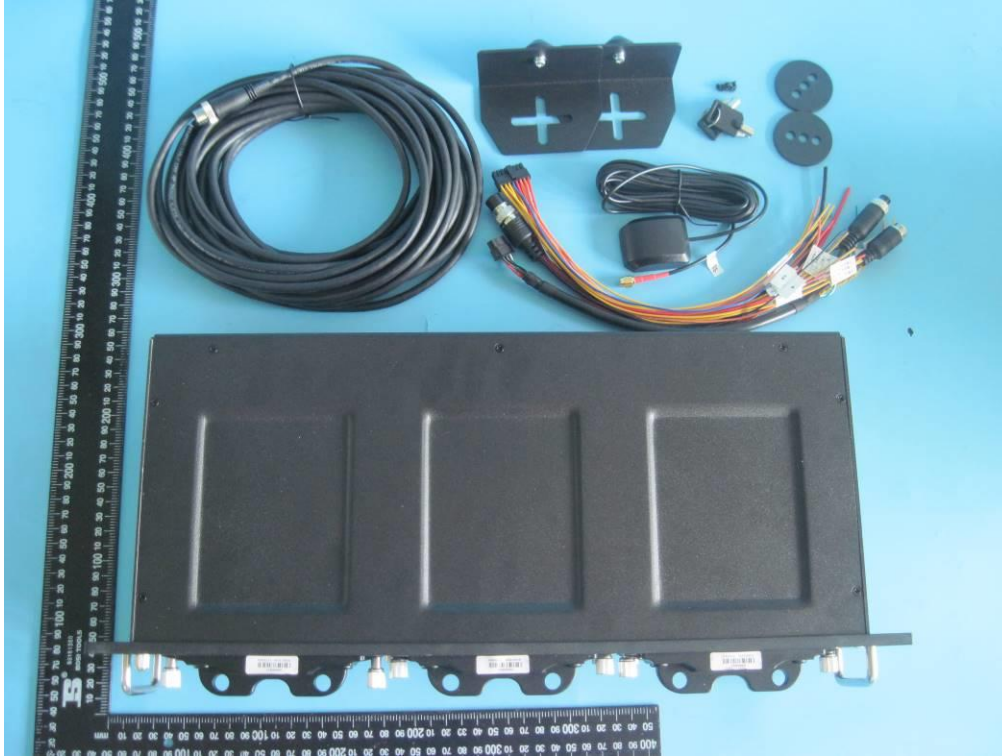
Abbreviation: BBP= Benzylbutyl phthalate
 DBP= Dibutyl phthalate
 DEHP= Bis(2-ethylhexyl) phthalate
 DIBP= Diisobutyl phthalate
 n.d.= Not Detected (< Reporting Limit)
 RL = Reporting Limit
 N.A. = Not Applicable
 % = percentage

Remark :

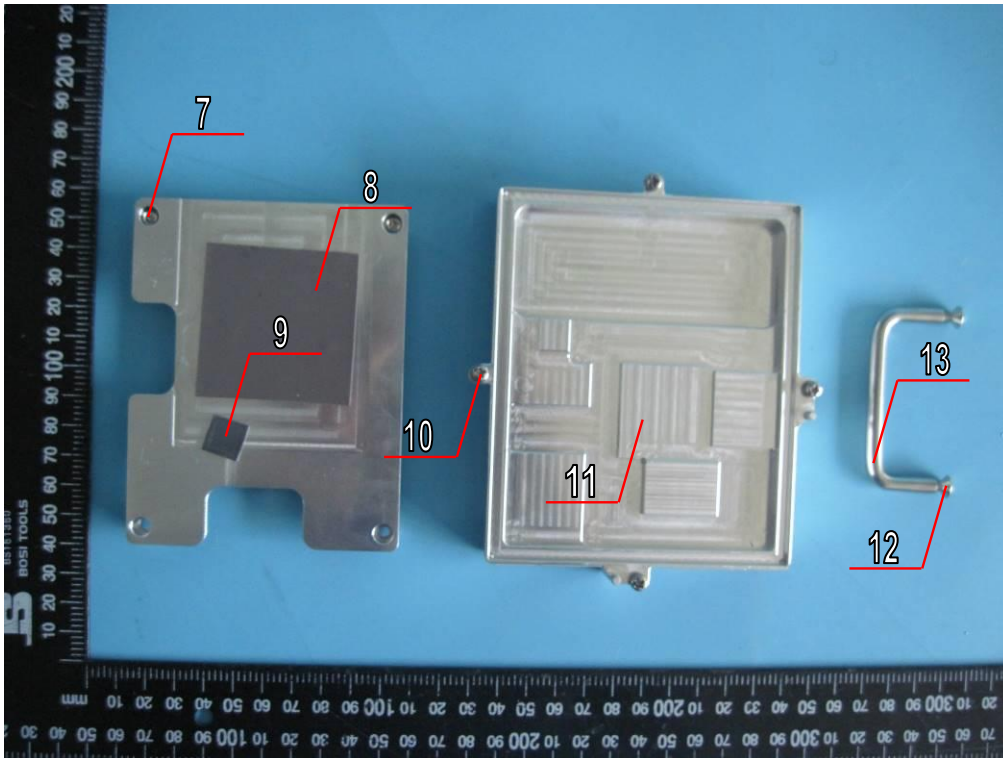
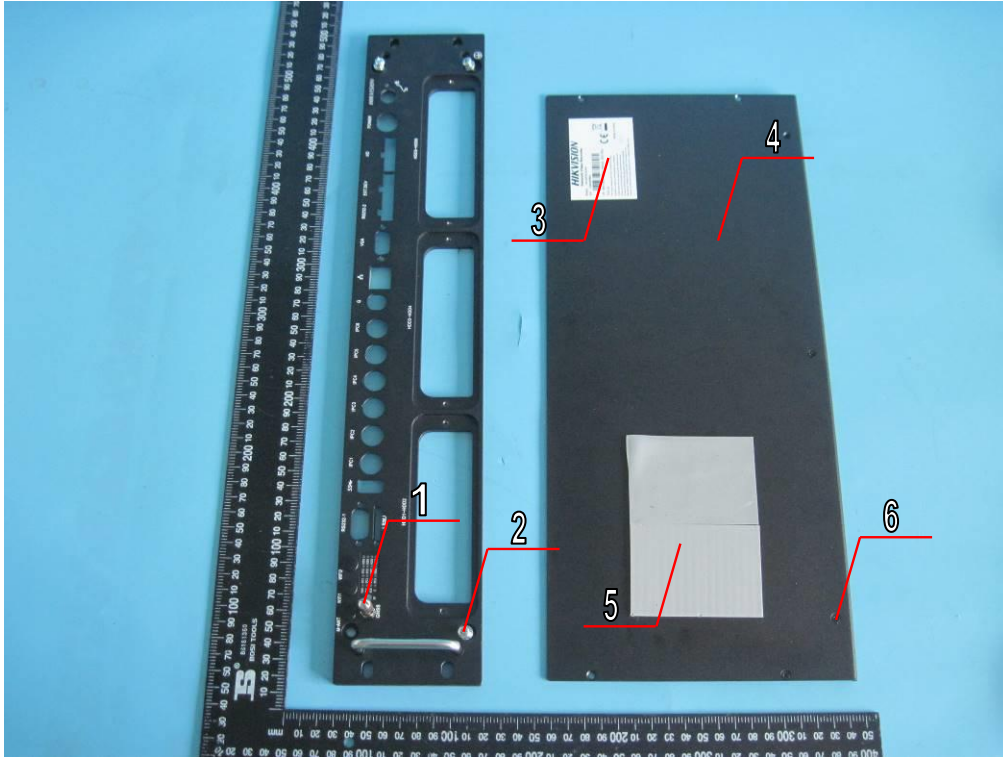
Hangzhou Hikvision Digital Technology Co., Ltd. declared that:
 The following models and test model DS-MP3516-RH are the same serials, all components were made by the same raw material but different in shapes and sizes. Hangzhou Hikvision Digital Technology Co., Ltd. will be responsible for this statement.

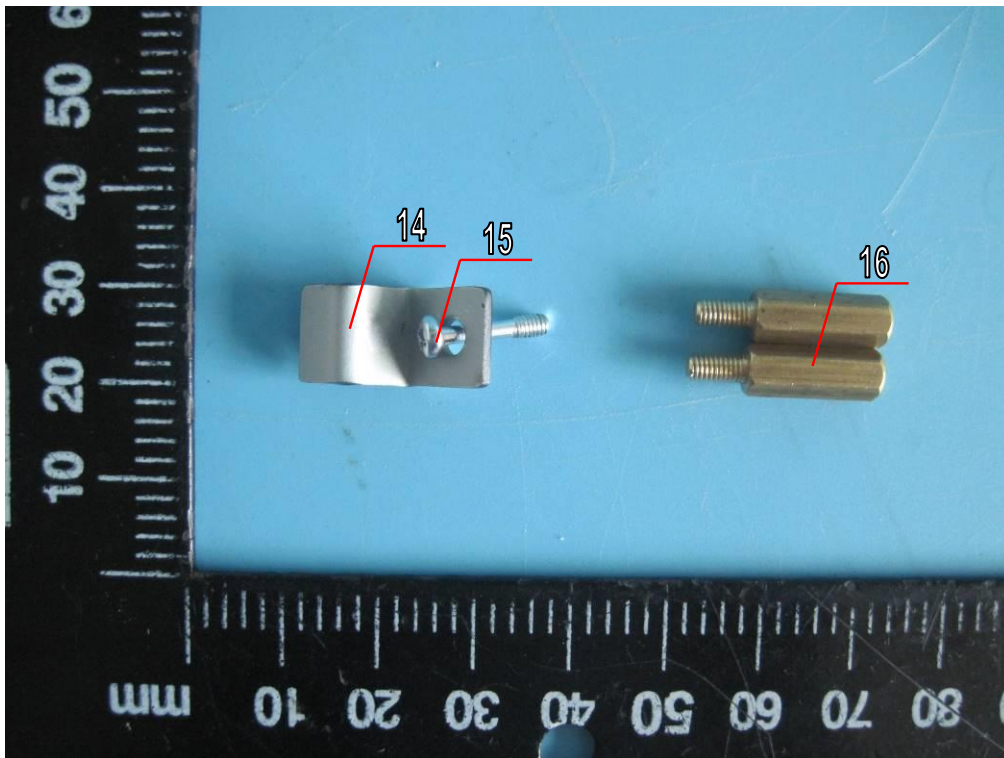
DS-MP3516-RH/GW,DS-MP3516-RH/GW/WI,
 DS-MP3516-RH/GLF,DS-MP3516-RH/GLF/WI,
 DS-MP3YYY-WW/AAA/BBB,DS-MP3516-RHUHK,
 DS-MP3516-RHCKV,DS-MP3516-RHUVS,
 DS-MP3516-RHKVO,DS-MP3516-RHHUN

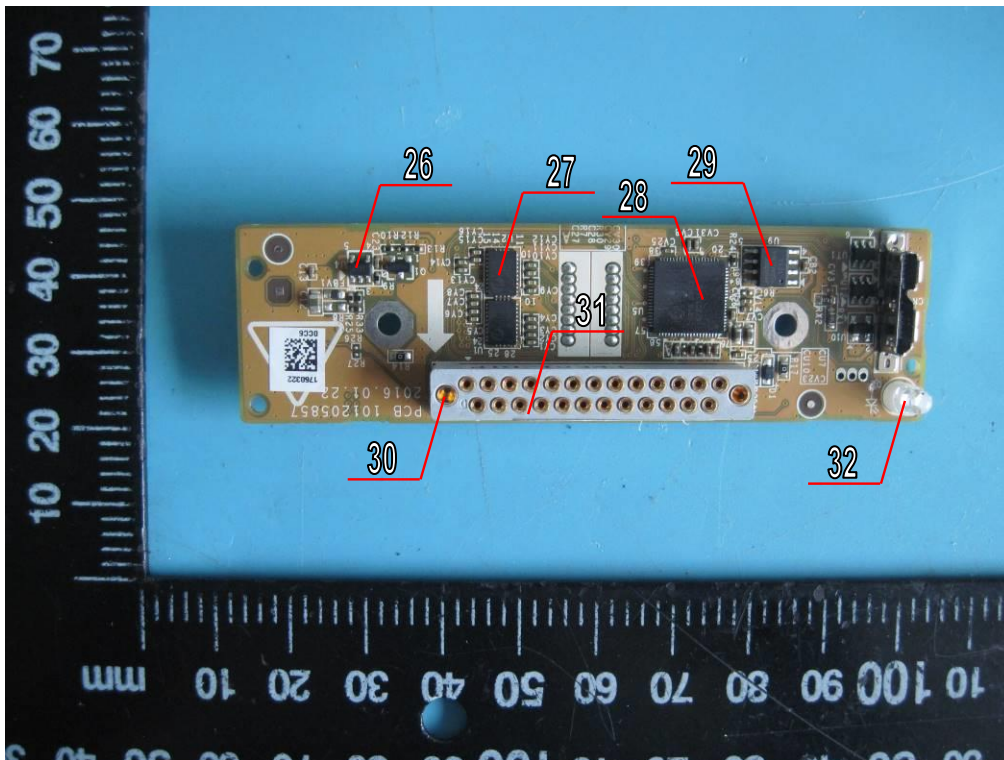
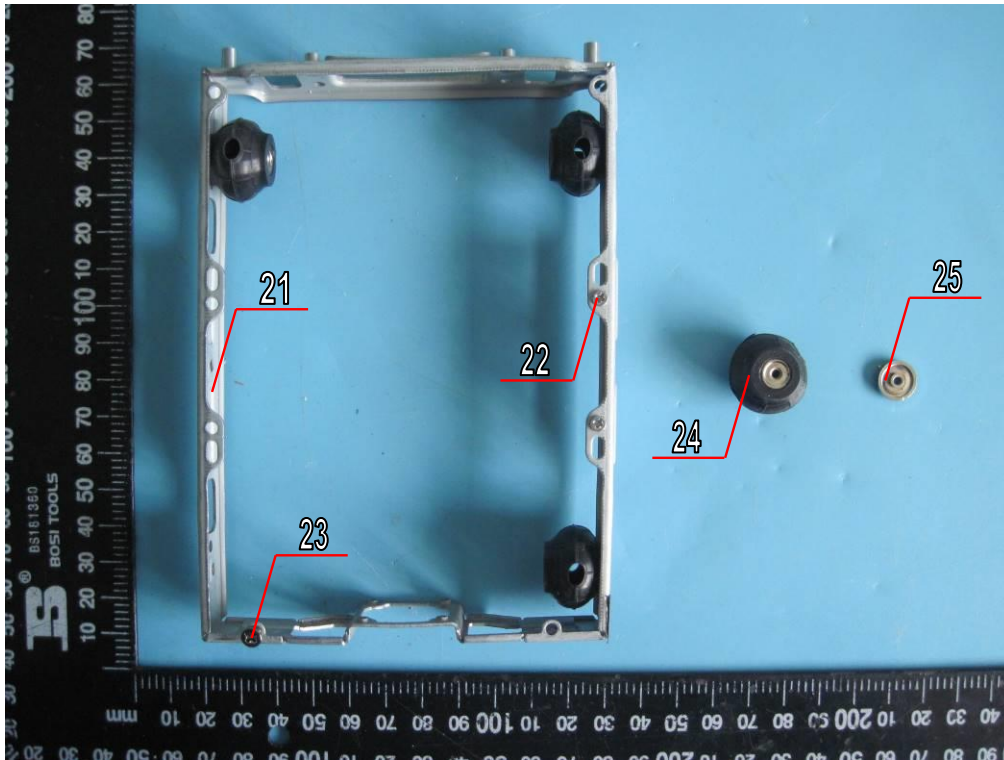
Sample Photo(s):

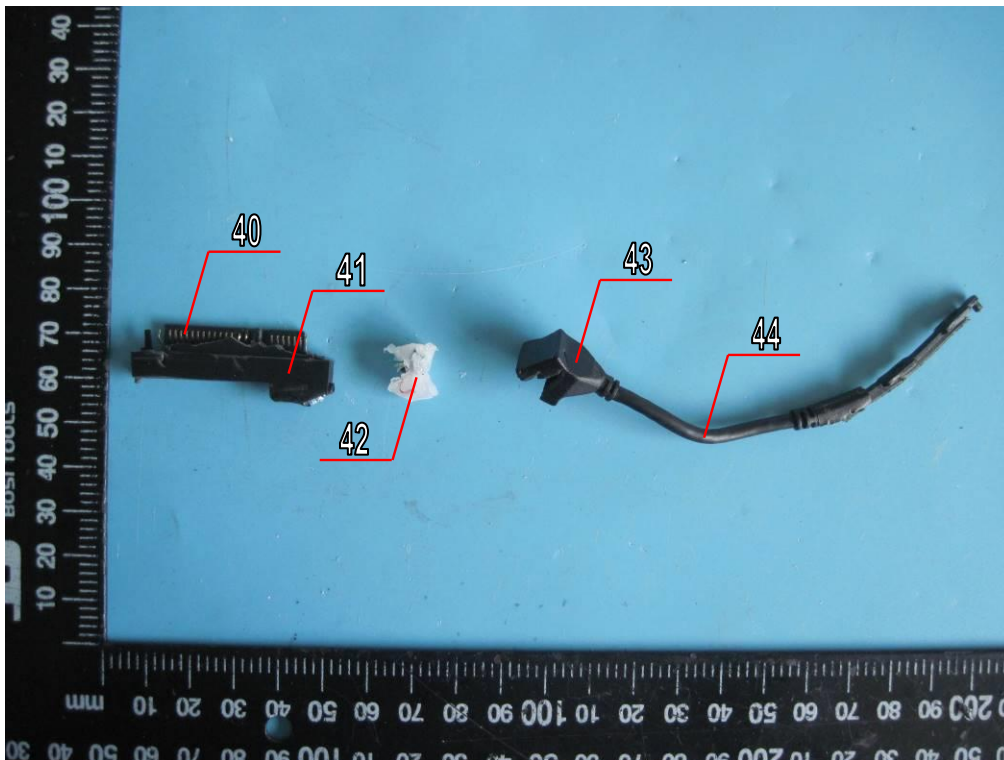
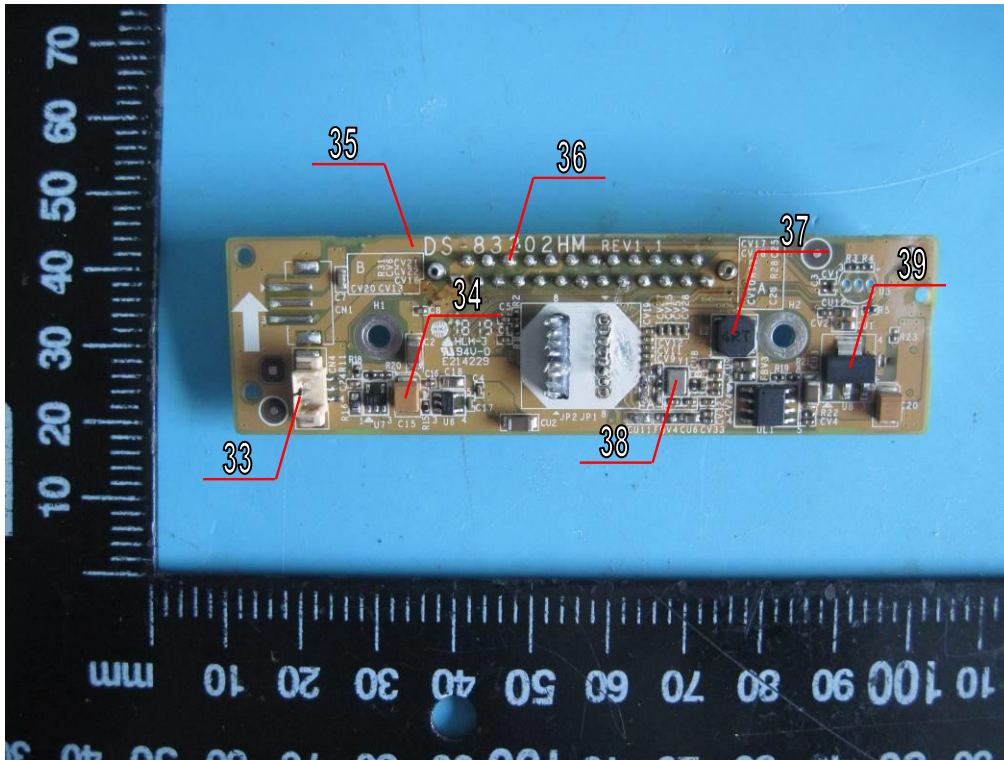


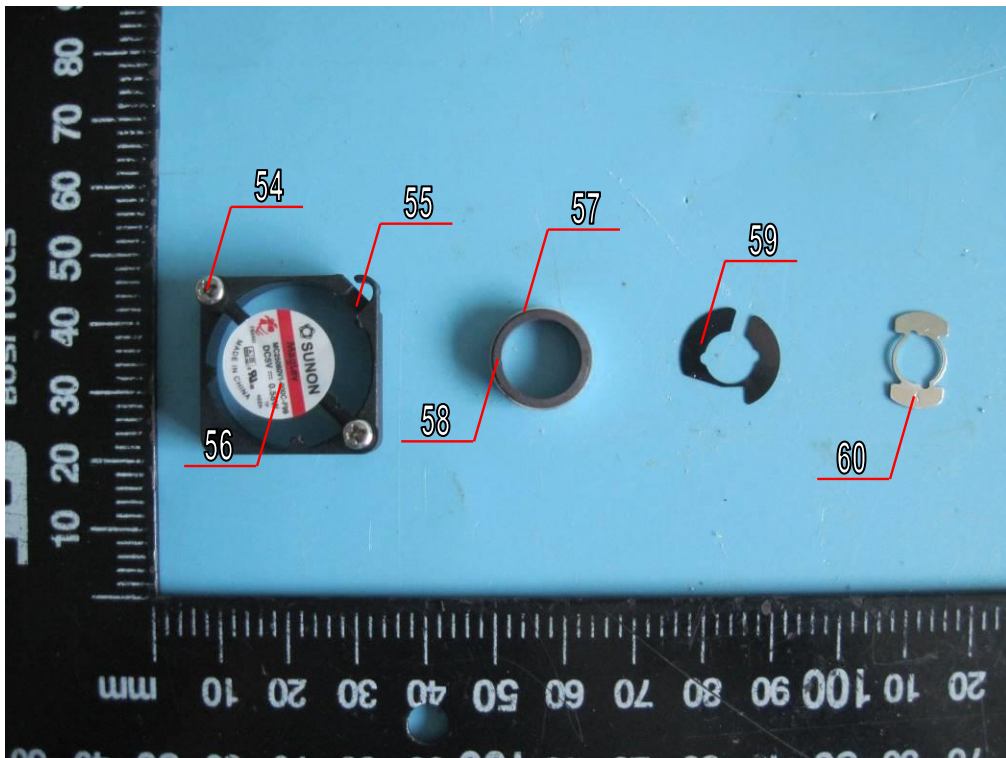
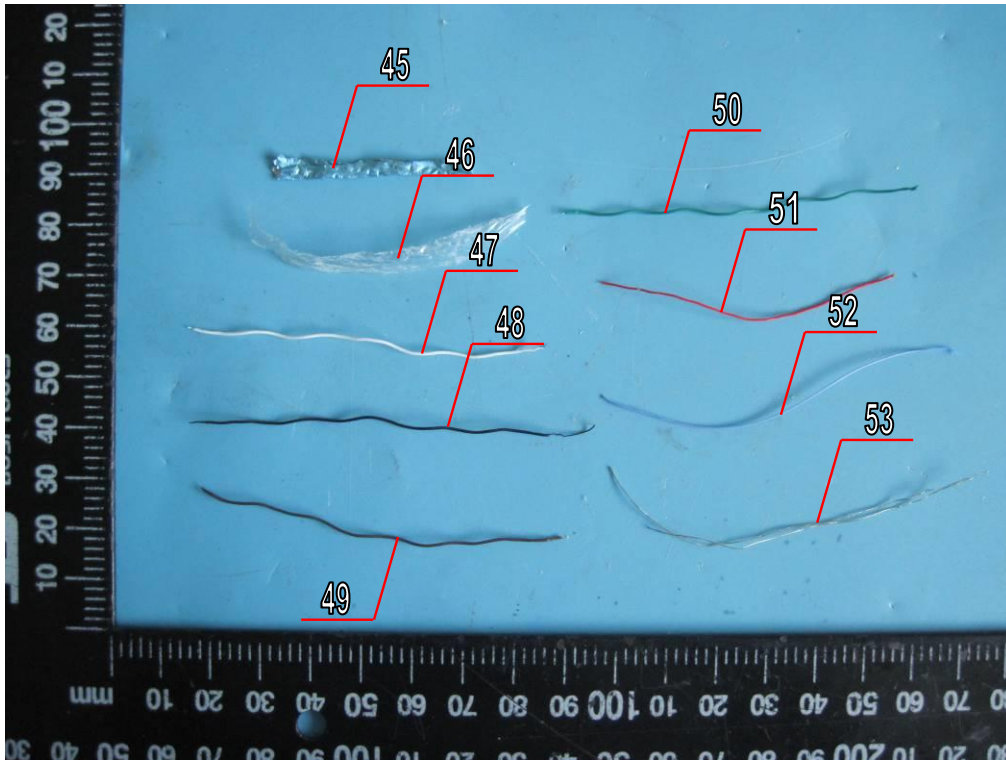
Test item: Mobile Digital Video Recorder
Tested Model: DS-MP3516-RH

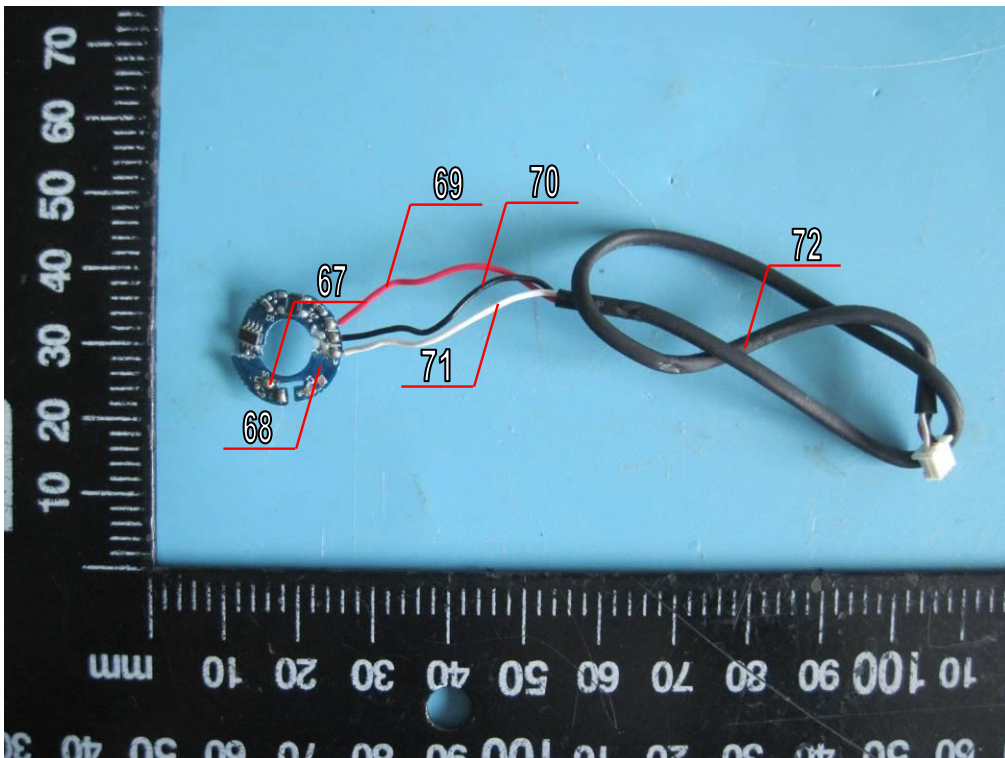
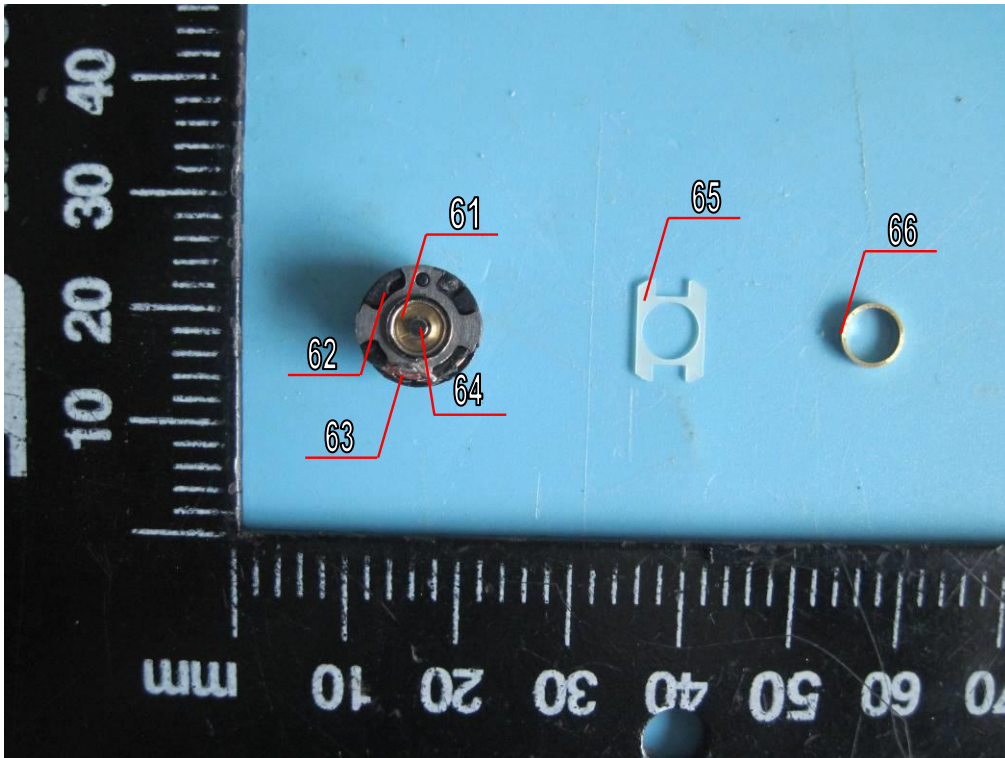


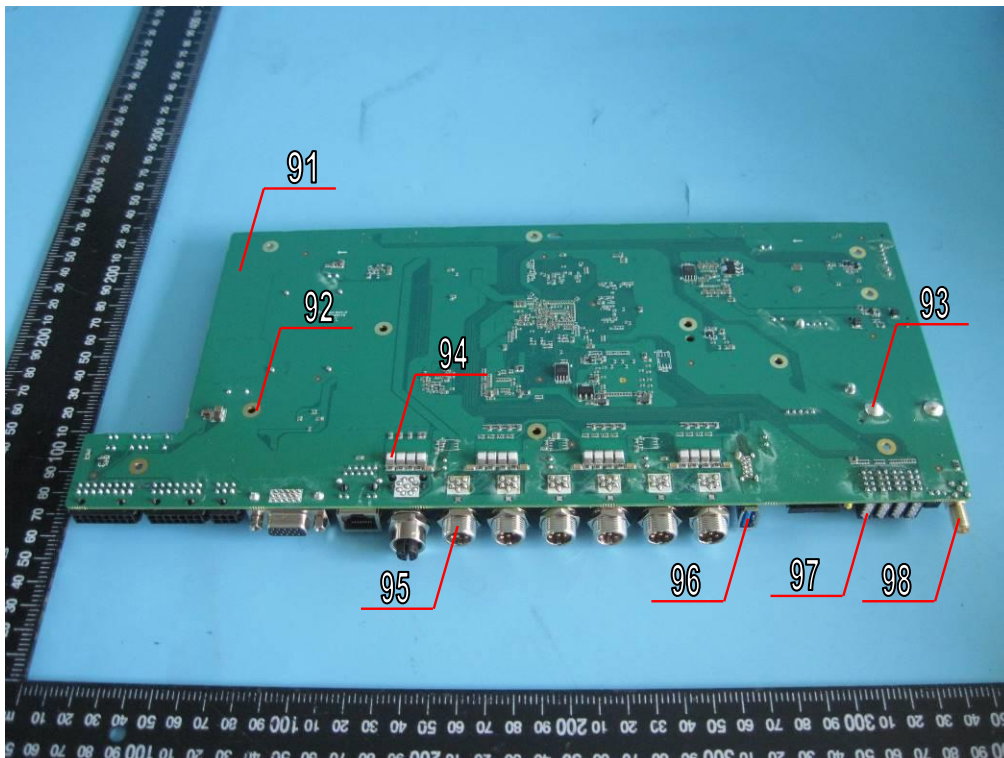
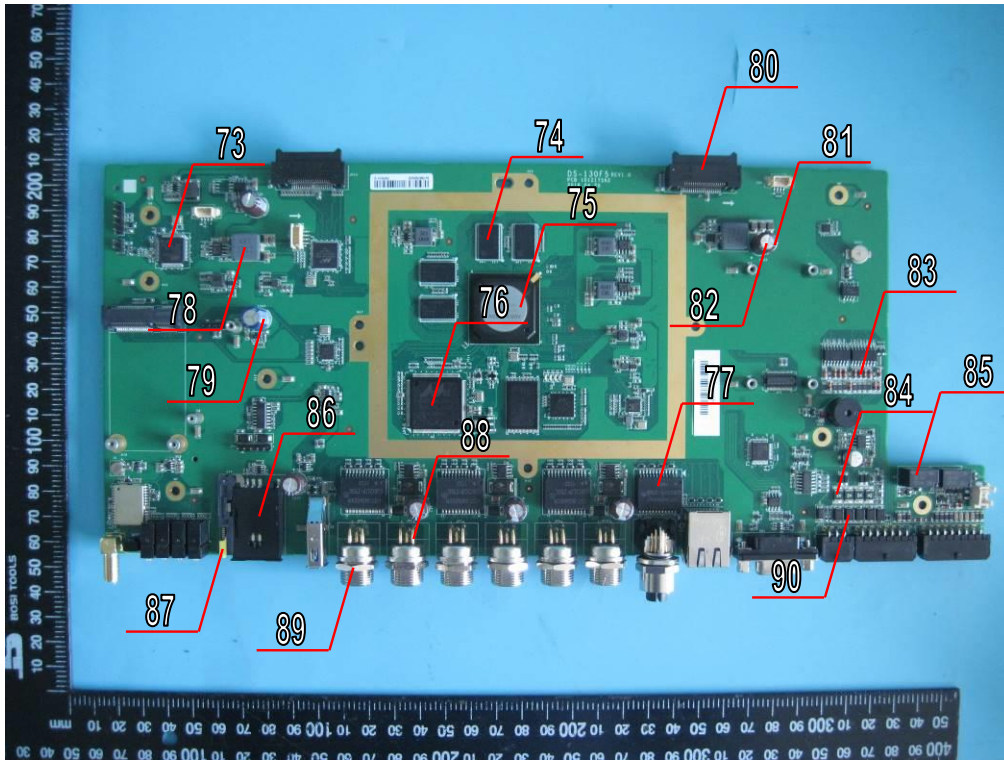


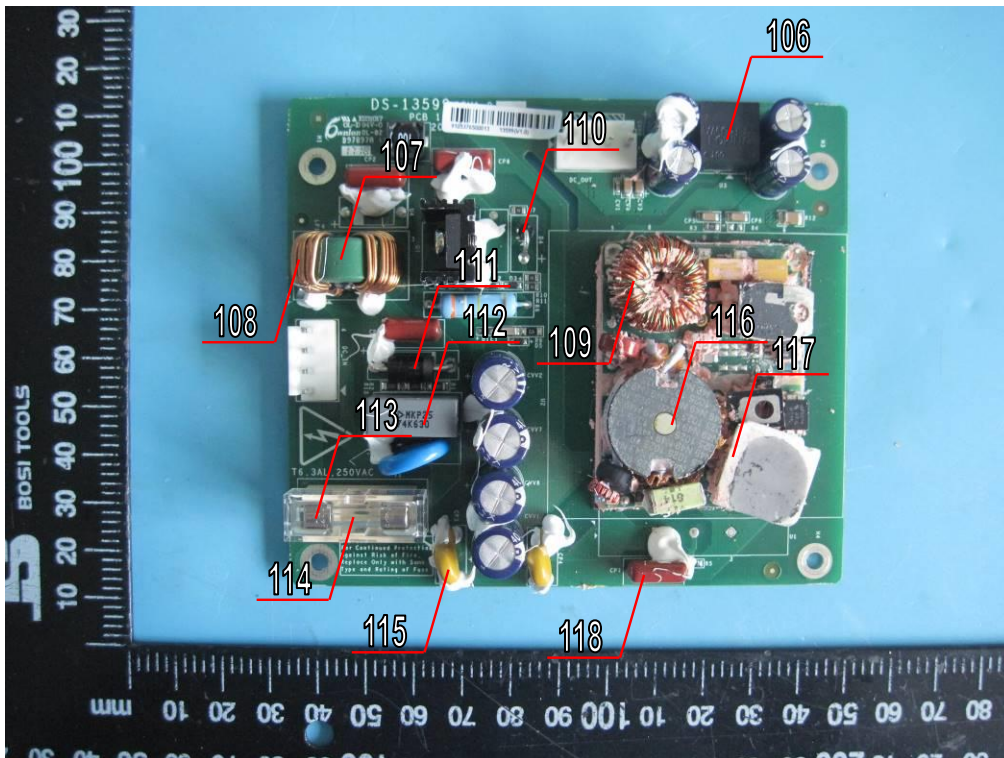
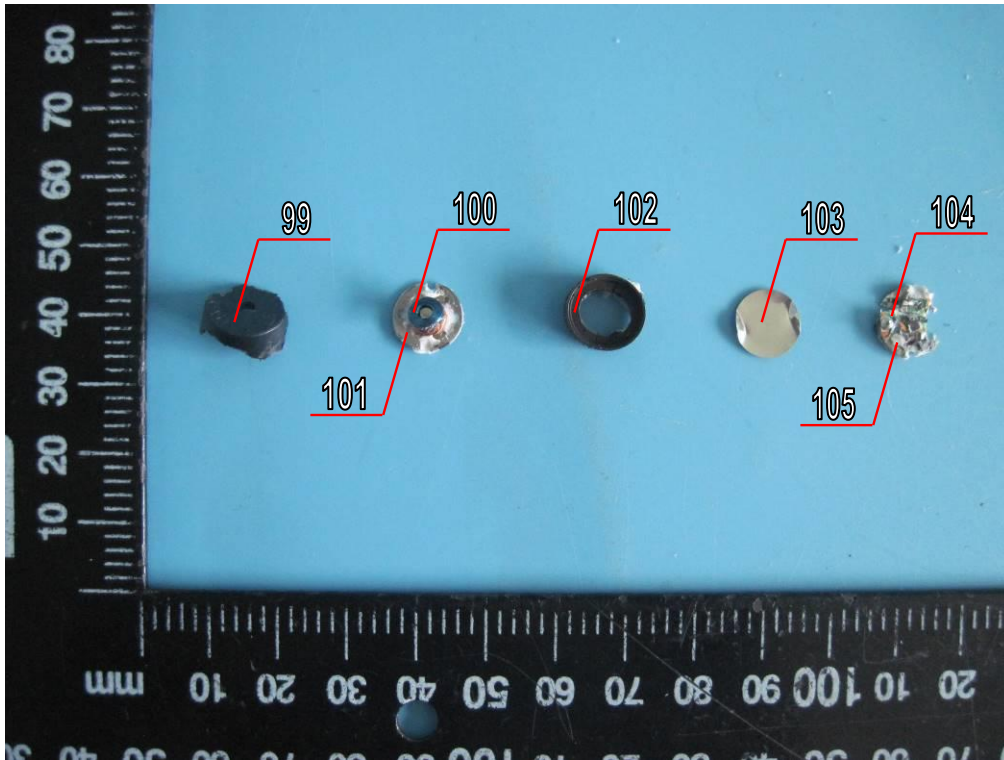


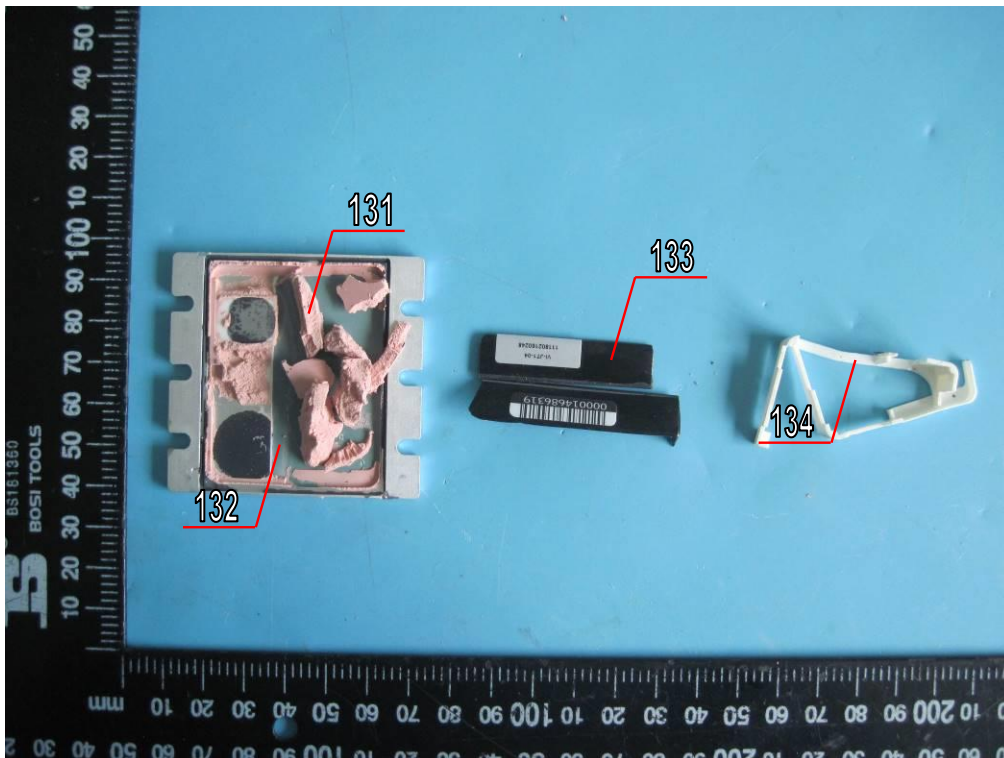
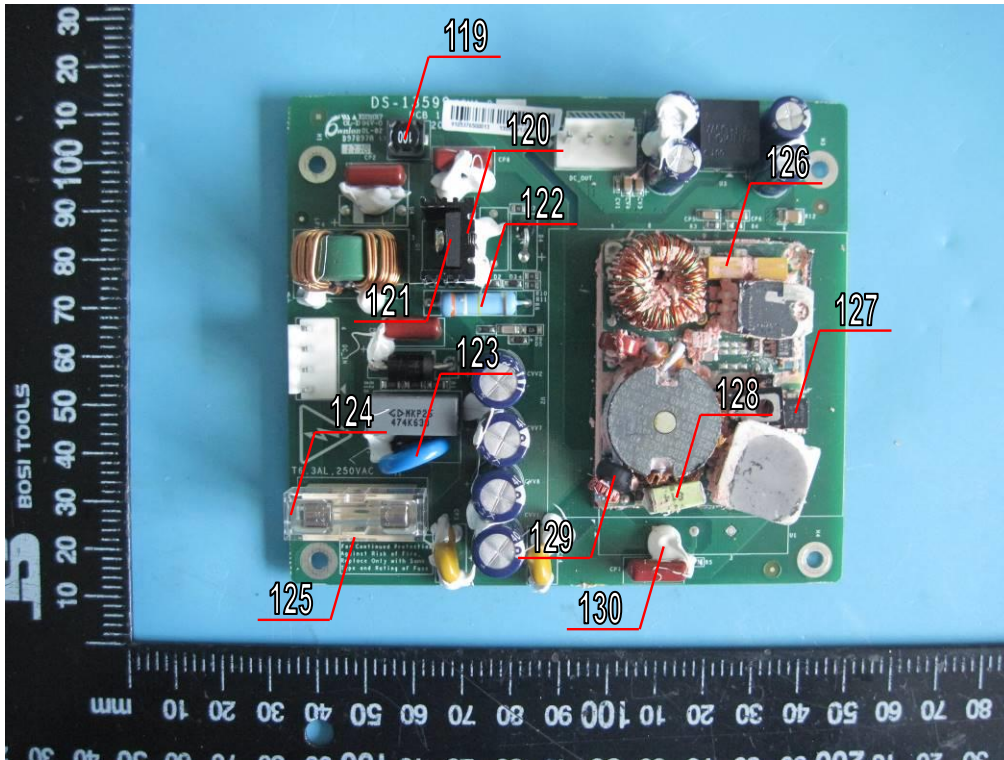


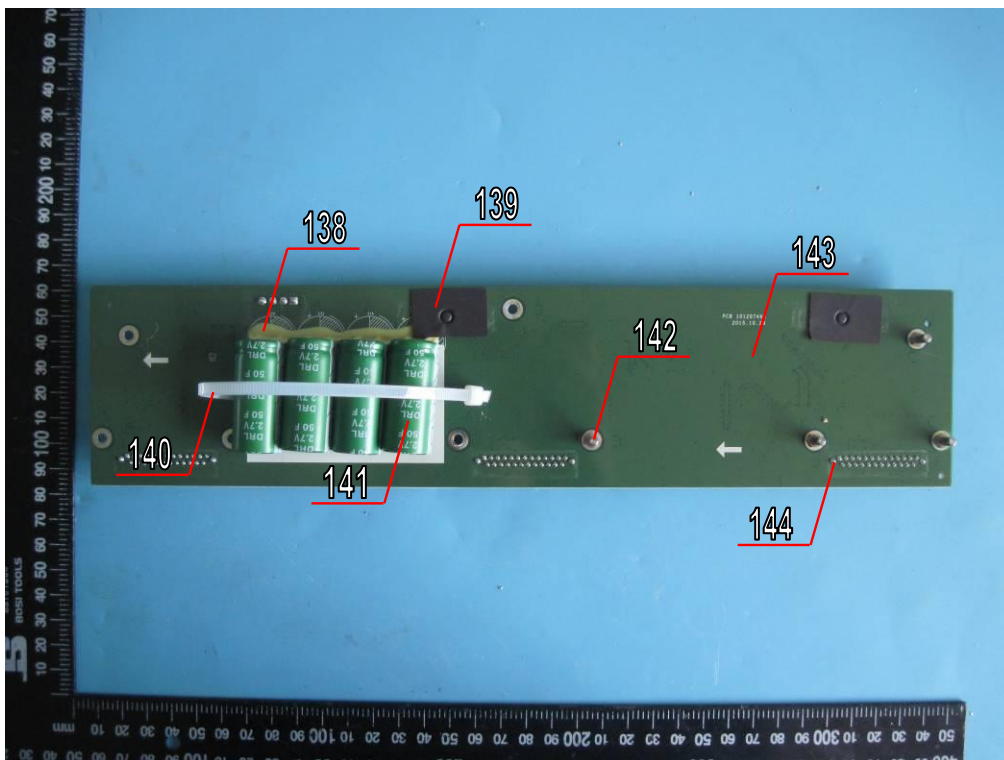
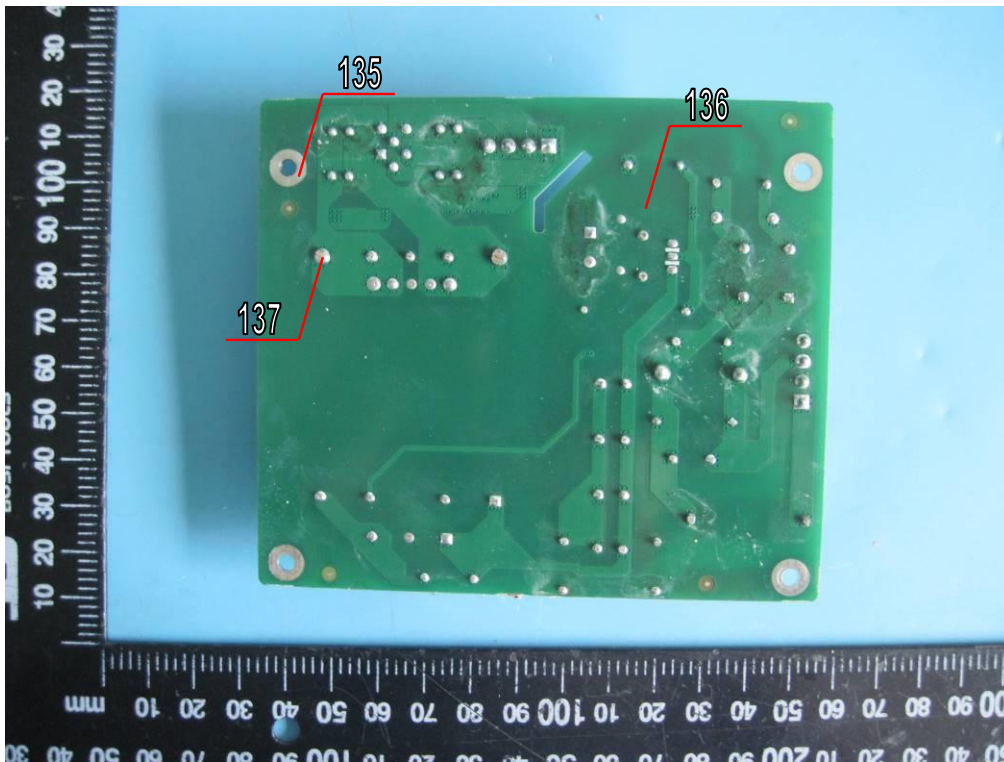


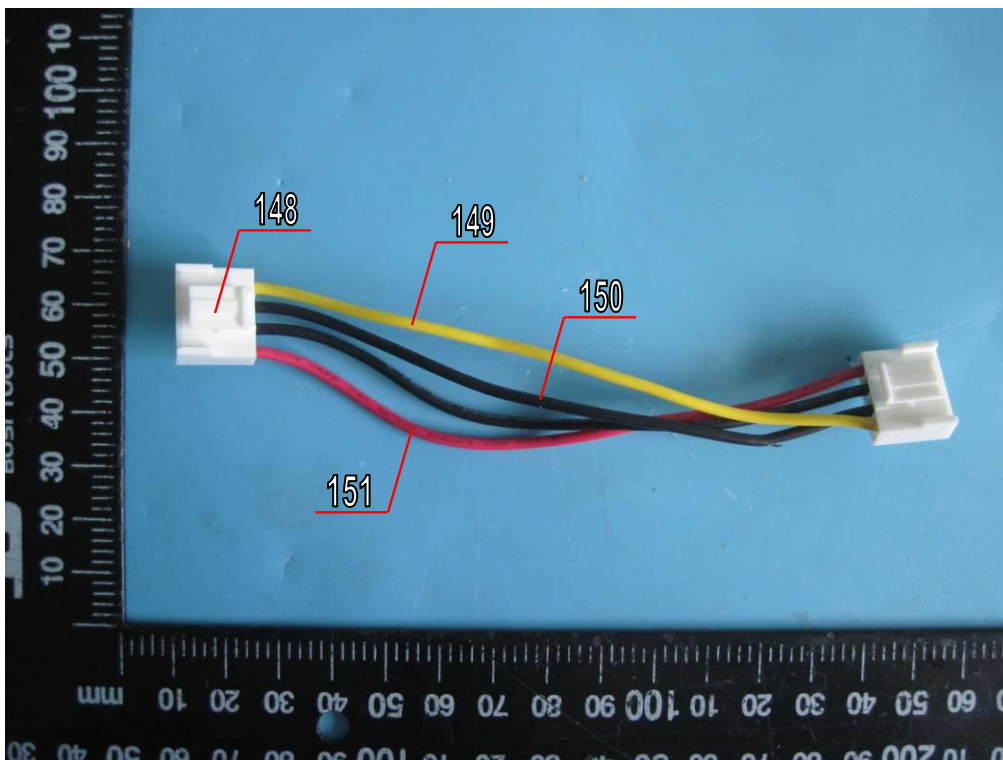


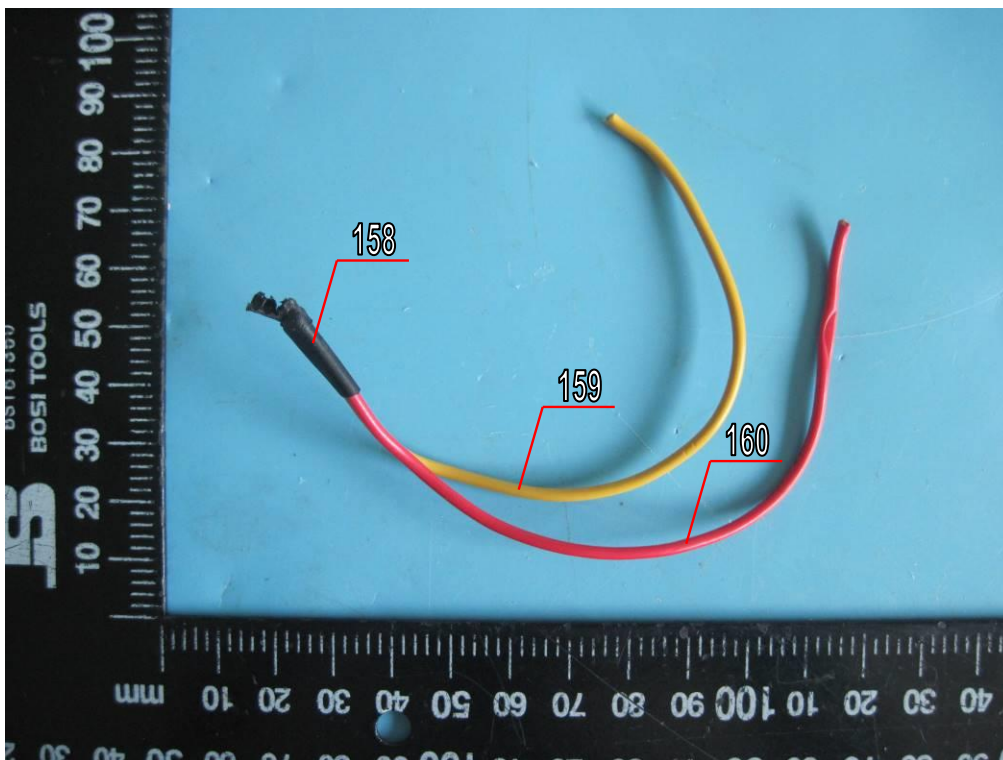
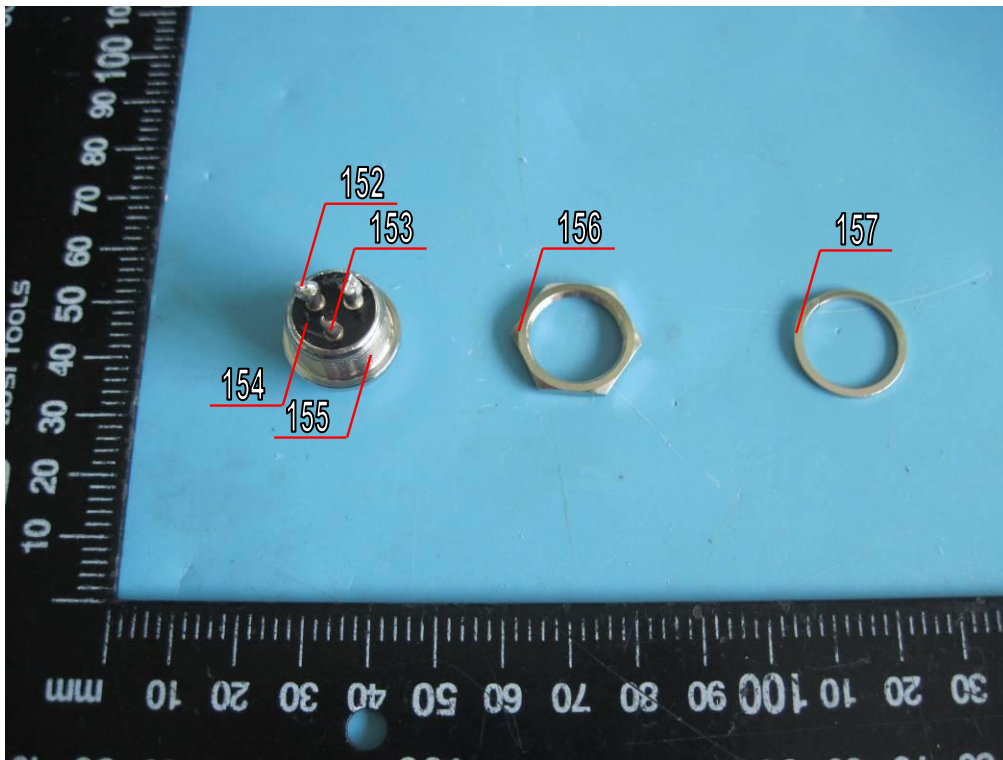


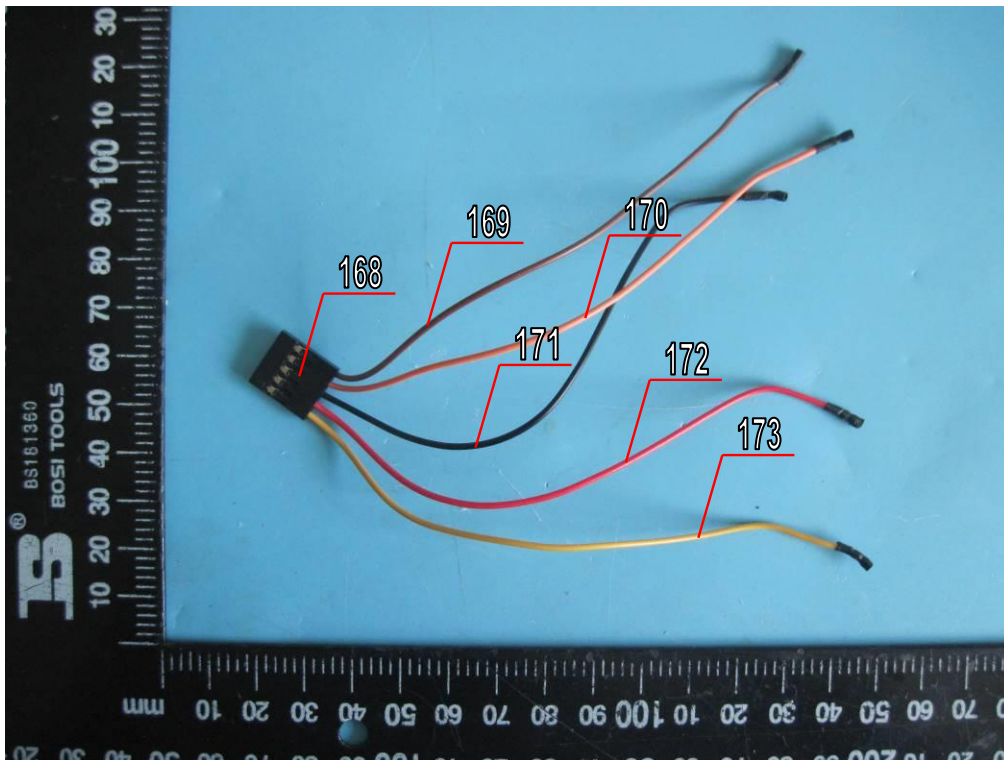
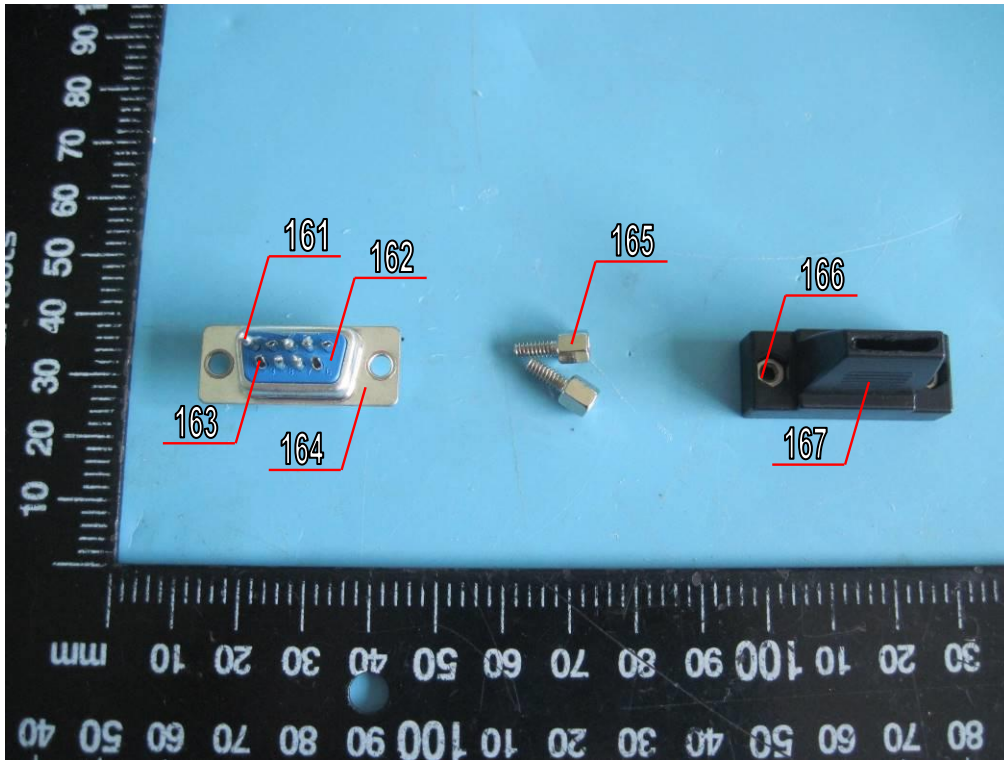


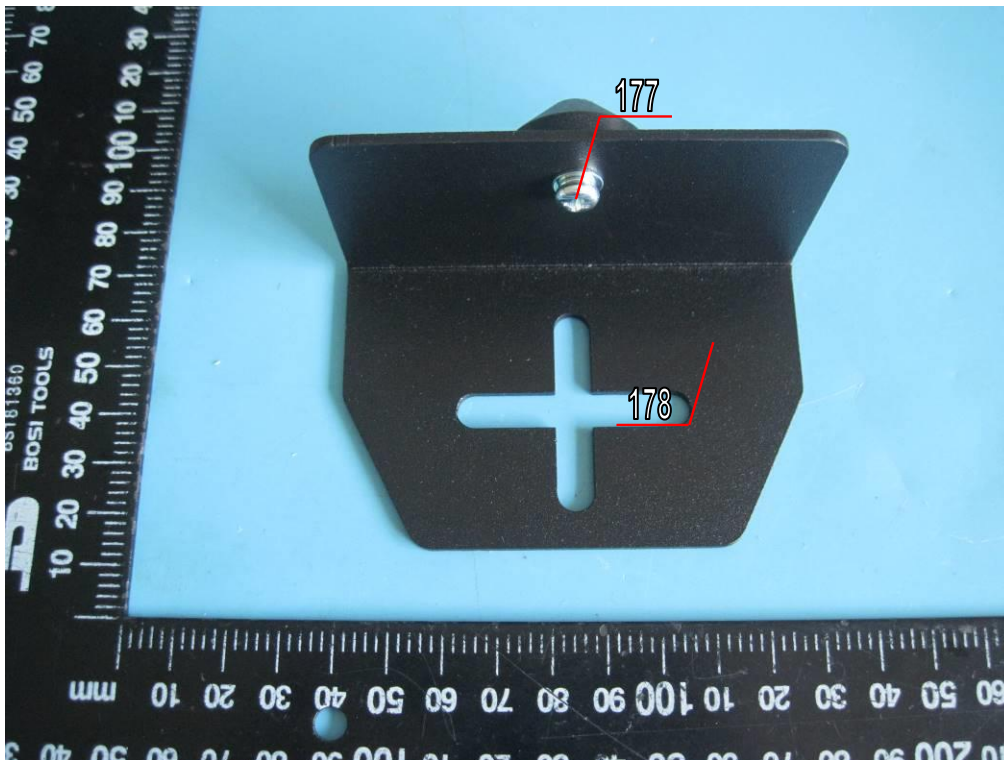
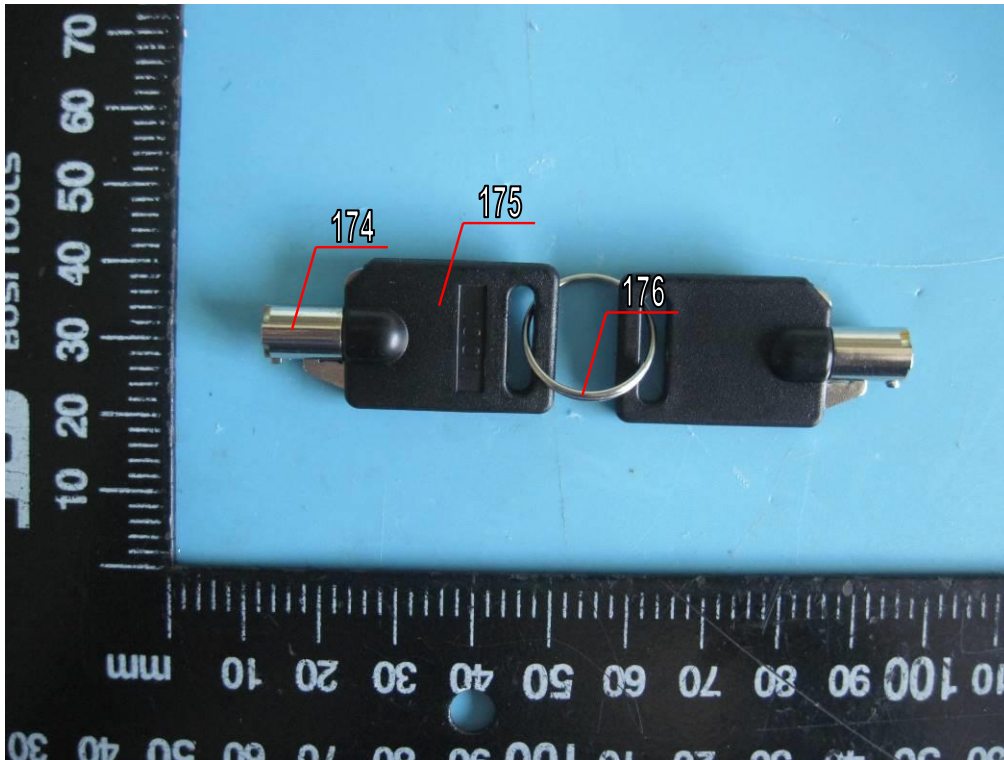


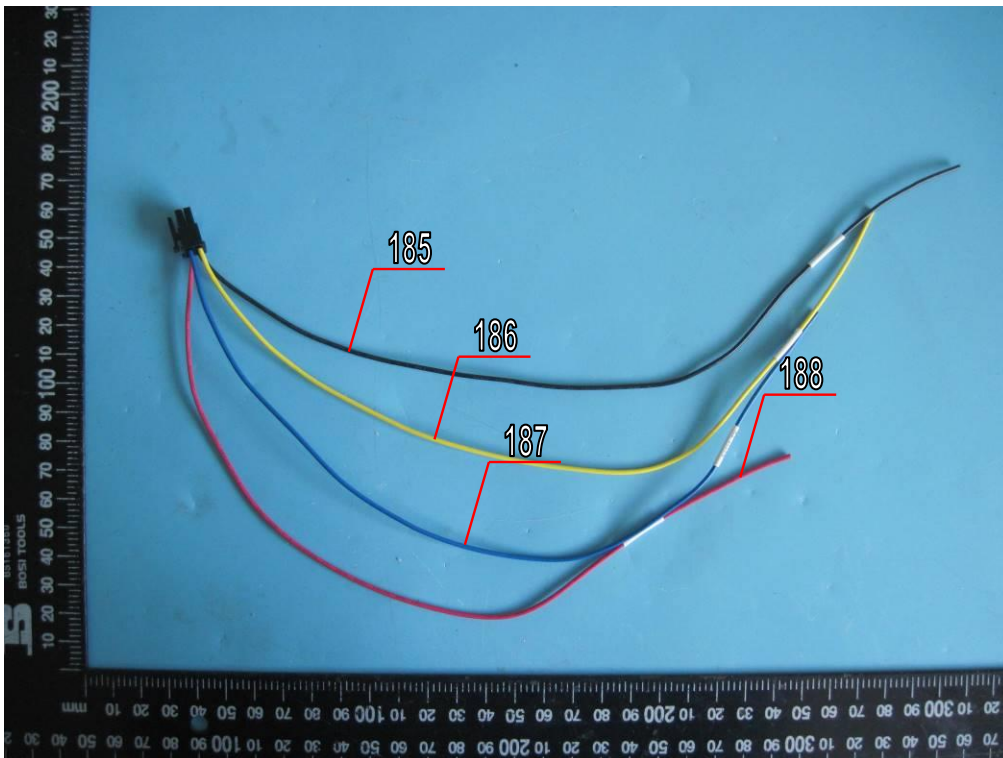
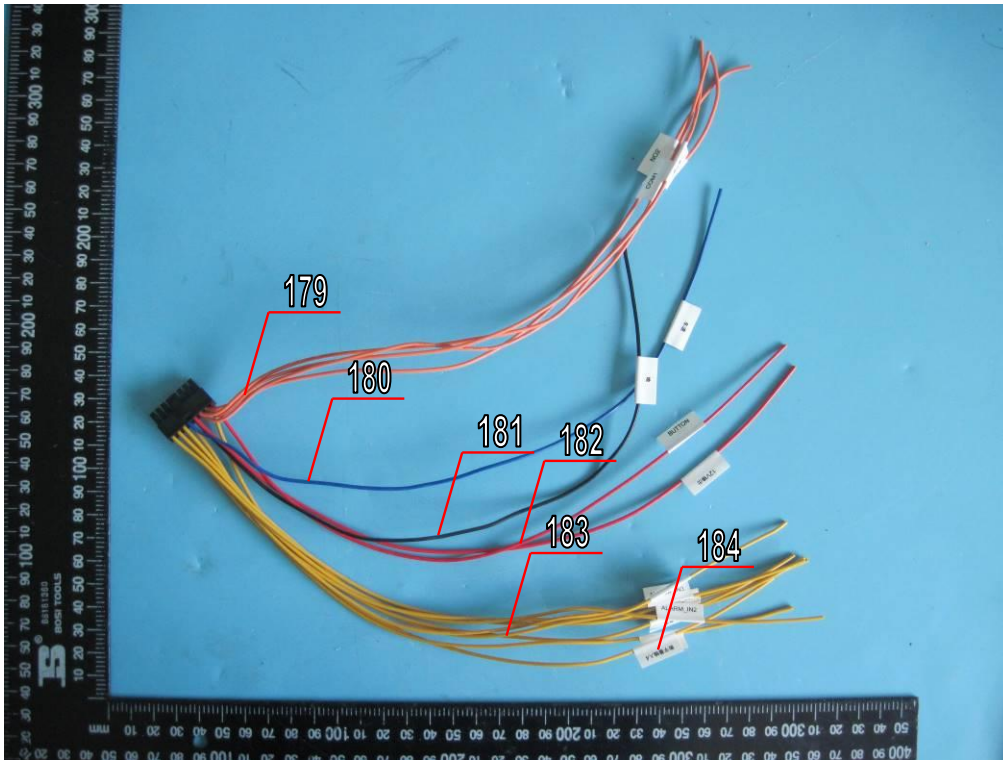


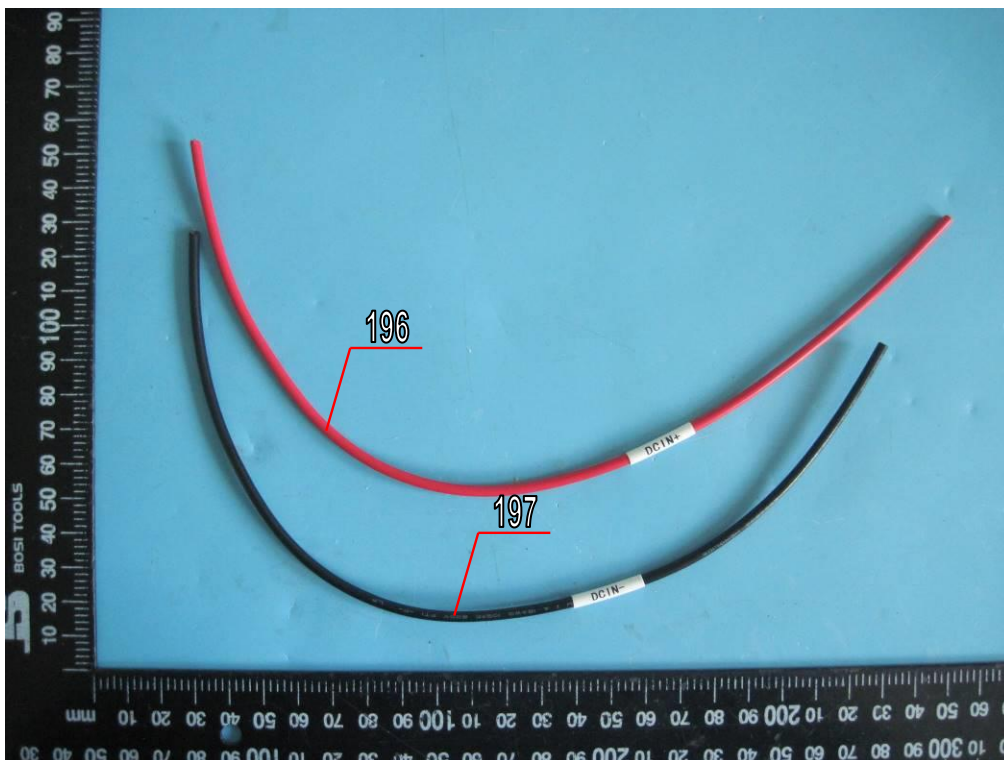
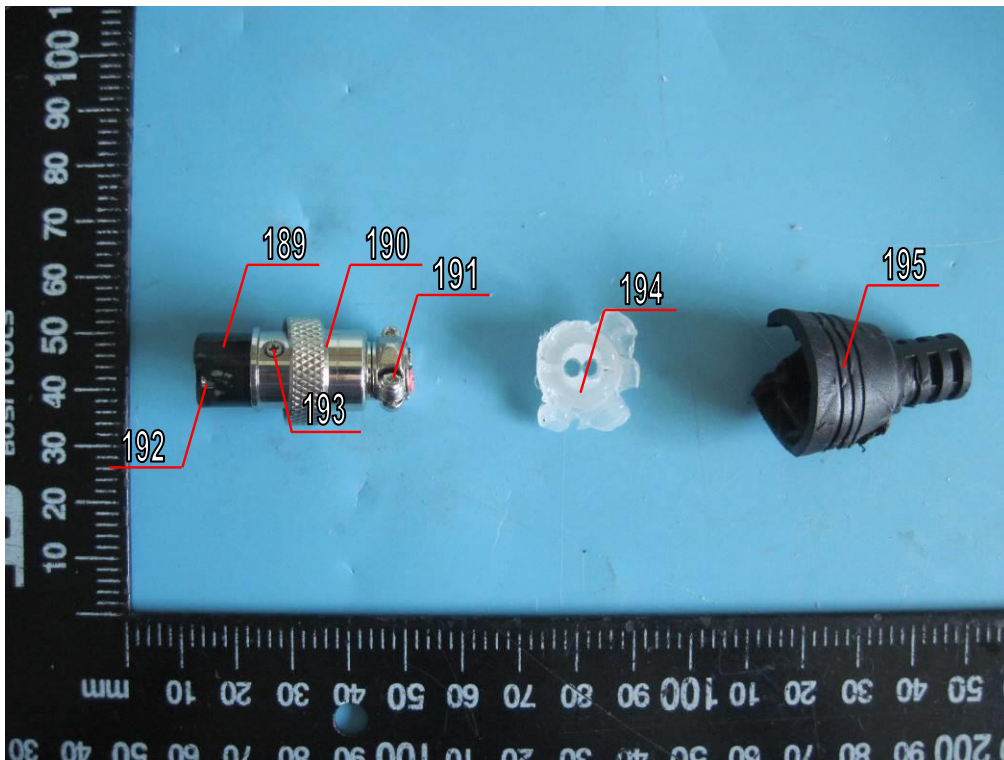


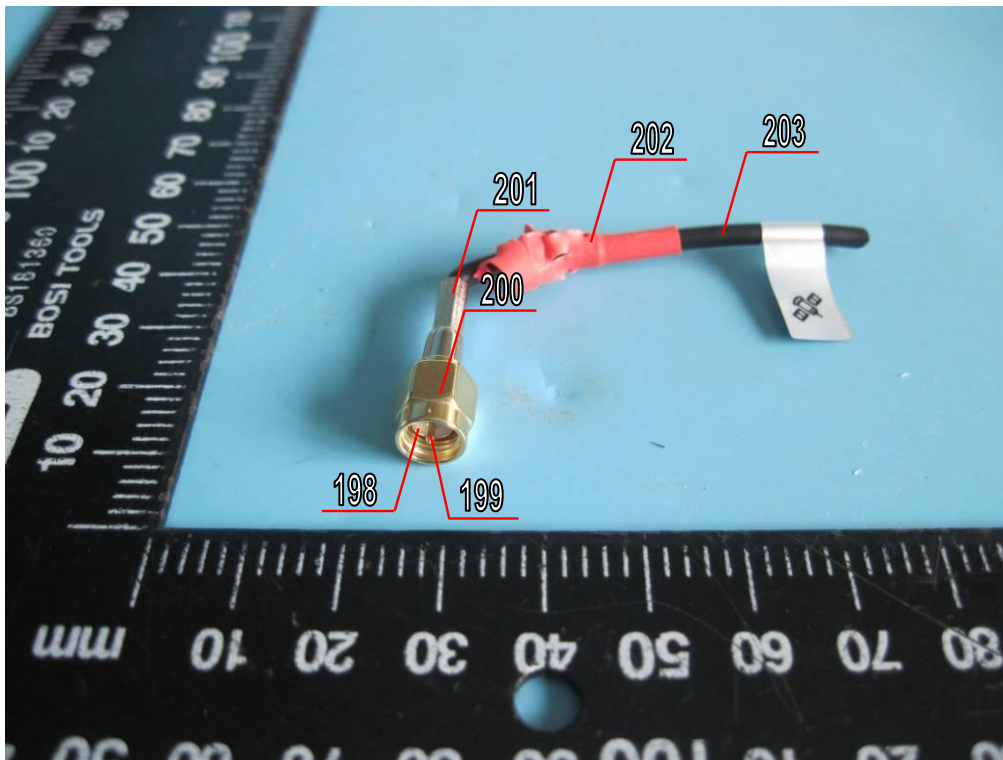


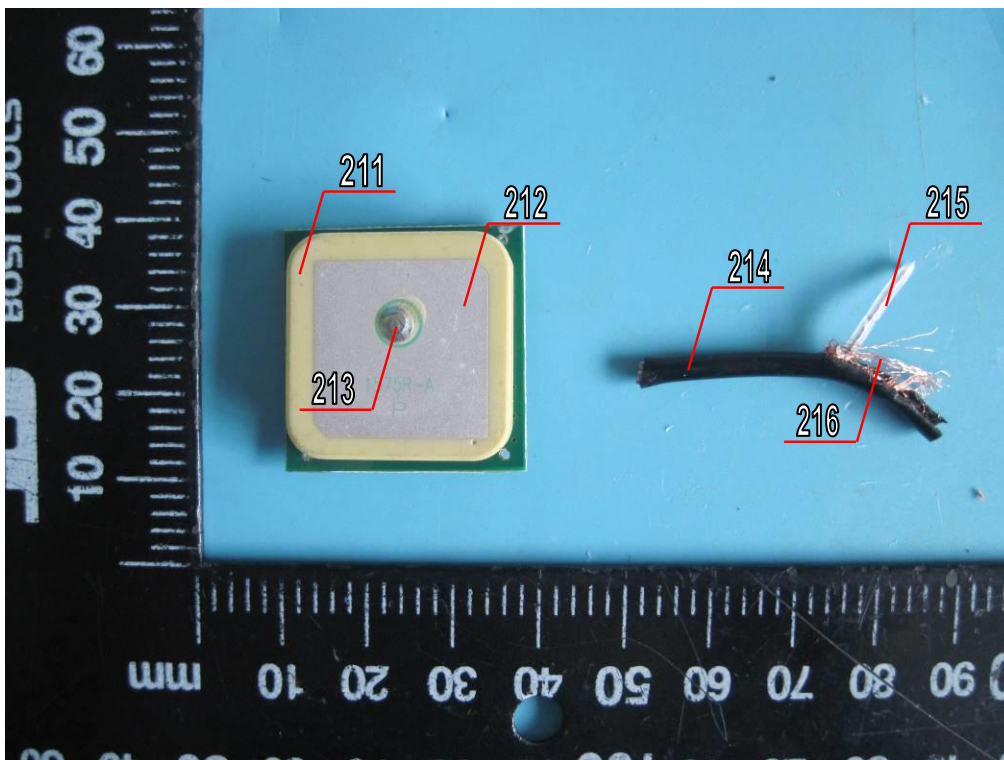
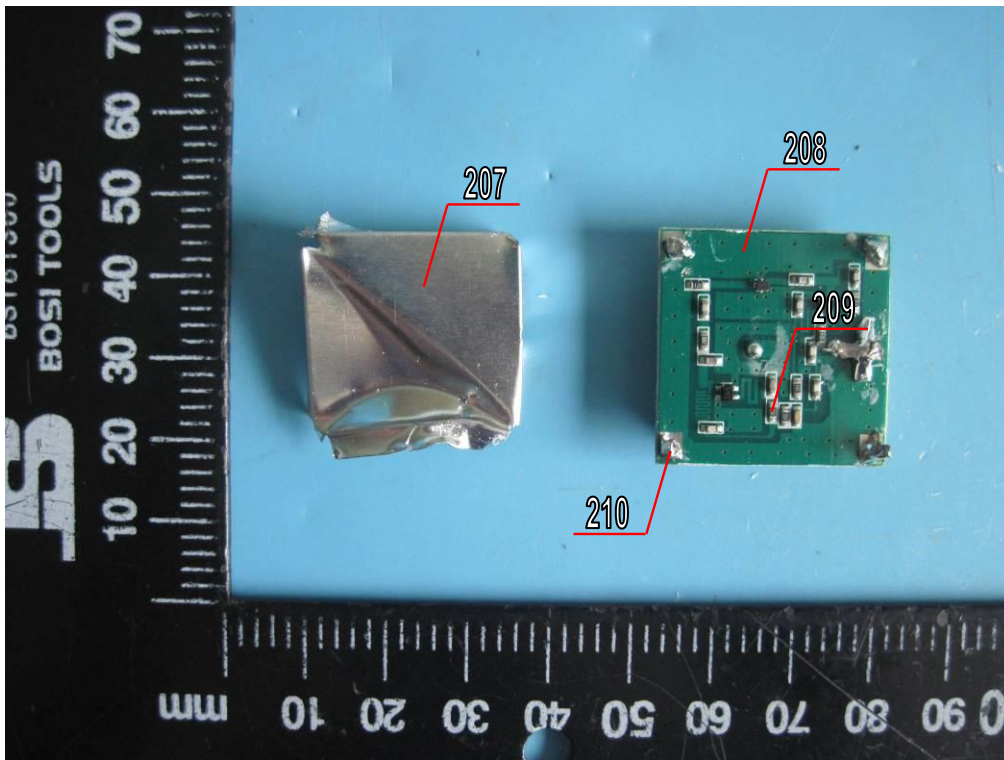


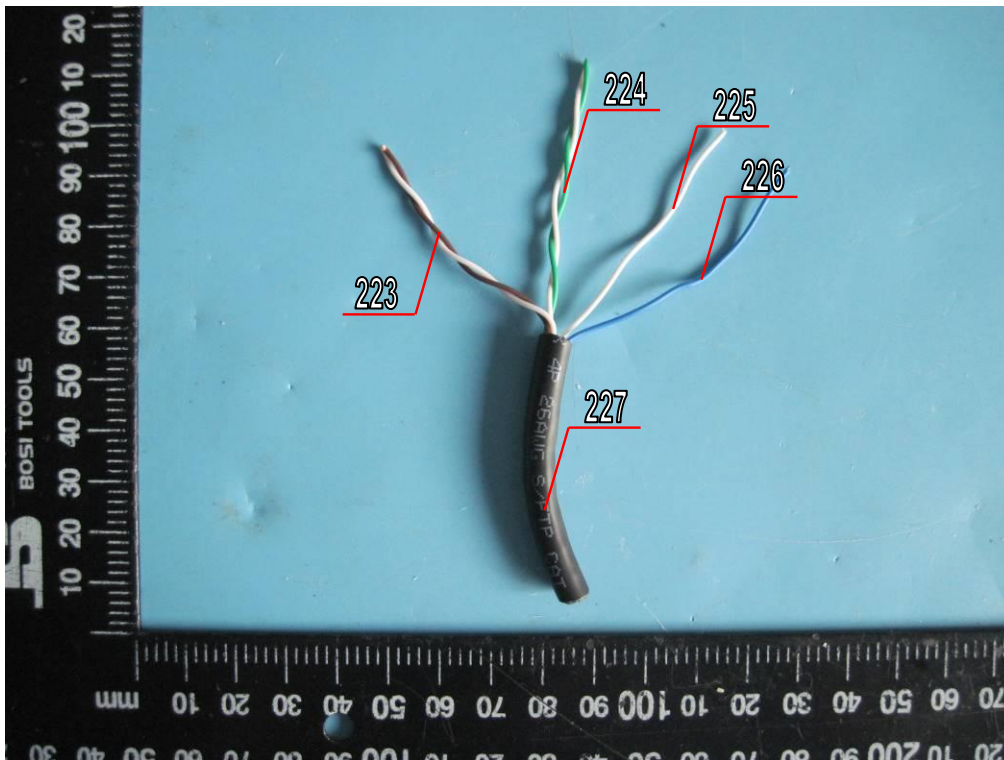
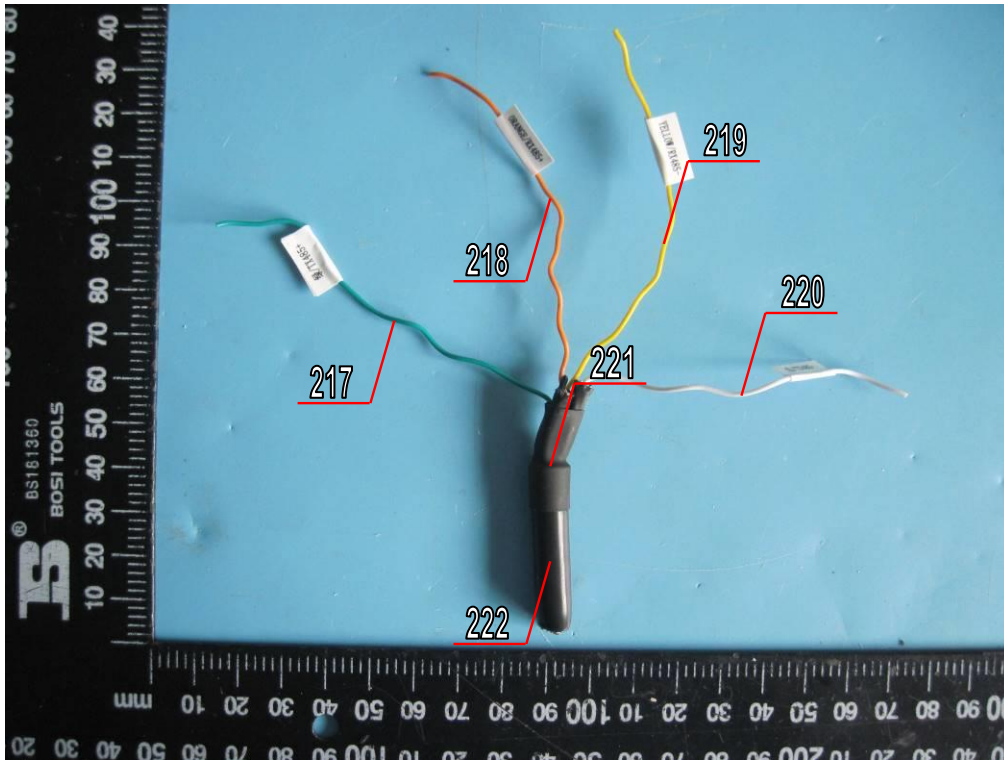


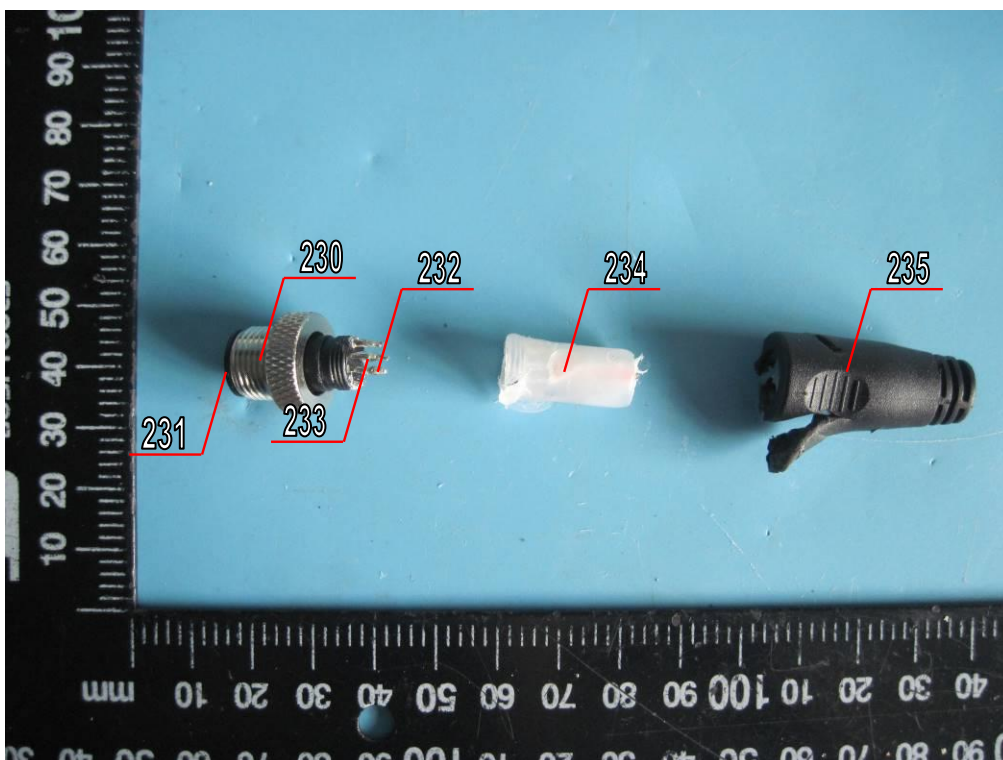
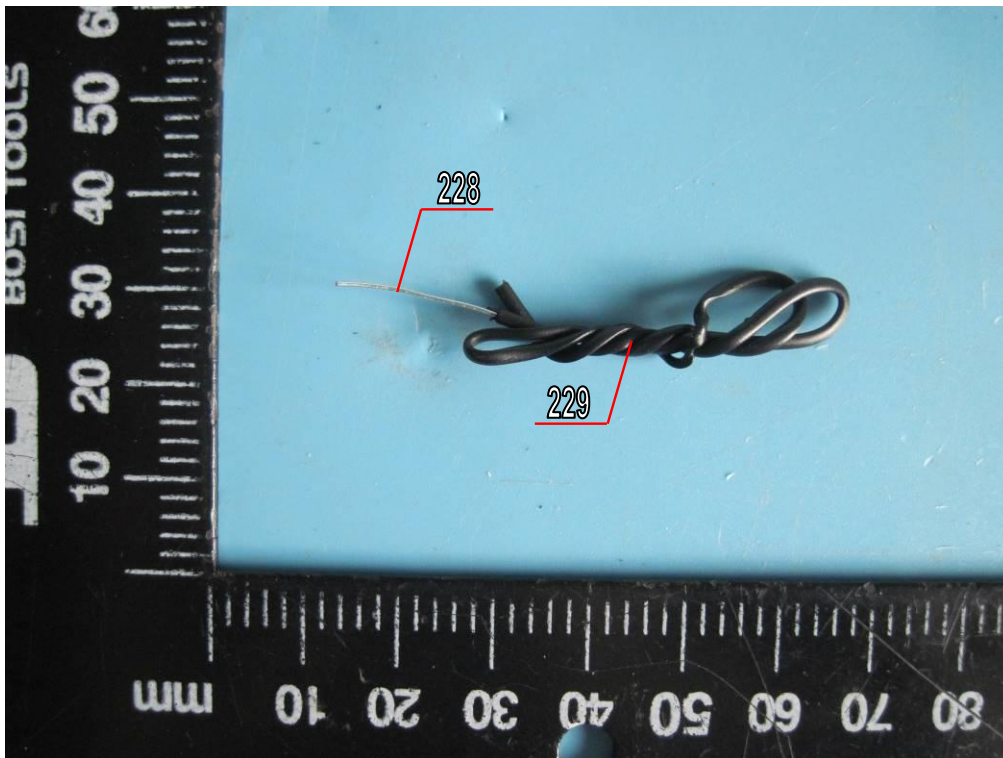












******End of Report******