

TEST REPORT

Applicant: Shenzhen Huafurui Technology Co., Ltd
Address: Unit 1401&1402,14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen, P.R. China

The following sample(s) was/were submitted and identified on behalf of the client as:

Product name: Smartphone
Model: KINGKONG MINI 2 PRO
Manufacturer: Shenzhen Huafurui Technology Co., Ltd
Address: Unit 1401 & 1402, 14/F, Jinqi Zhigu Mansion (No. 4 Building of Chongwen Garden), Crossing of the Liuxian Street and Tangling Road, Taoyuan Street, Nanshan District, Shenzhen, P.R. China

Sample Received Date: Mar. 29, 2022
Testing Period: Mar. 29, 2022~ May. 28, 2022

Test Requirement:

As specified by client, to screen the 223 substances of very high concern(SVHC) under Regulation(EC) No 1907/2006 of REACH in the submitted sample(s).

Summary:

According to the specified scope and analytical techniques, the concentrations of Lead and 1,3-propanesultone are >0.1%(w/w) in certain component(s), the concentrations of each other SVHCs is ≤ 0.1% (w/w) in the component(s) of submitted sample(s).

Test Method: Please refer to the following page(s);

Test Result(s): Please refer to the following page(s);

Compiled by: Dora Reviewed by: Y. Blmar

Approved by: Mark Liao Date: 2022-06-20

Test Result(s):

Batch	No.	Test item(s)	CAS No.	Result(s),%			RL (%)
				T1	T2	T3	
/	/	All tested SVHC in candidate list	/	N.D.	N.D.	N.D.	/

Batch	No.	Test item(s)	CAS No.	Result(s),%			RL (%)
				T4	T5	T6	
/	/	All tested SVHC in candidate list	/	N.D.	N.D.	N.D.	/

Batch	No.	Test item(s)	CAS No.	Result(s),%			RL (%)
				T7	T8	T9	
/	/	All tested SVHC in candidate list	/	N.D.	N.D.	N.D.	/

Batch	No.	Test item(s)	CAS No.	Result(s),%			RL (%)
				T10	T11	T12	
/	/	All tested SVHC in candidate list	/	N.D.	N.D.	N.D.	/

Batch	No.	Test item(s)	CAS No.	Result(s),%	RL (%)
				T13	
/	/	All tested SVHC in candidate list	/	N.D.	/

Batch	No.	Test item(s)	CAS No.	Result(s),%	RL (%)
				T14	
III	30	[®] Boric acid*	10043-35-3/ 11113-50-1	^{^1} N.D.	0.010
III	31	[®] Disodium tetraborate, anhydrous*	1330-43-4/ 12179-04-3/ 1303-96-4	^{^1} N.D.	0.010
III	32	[®] Tetraboron disodium heptaoxide, hydrate*	12267-73-1	^{^1} N.D.	0.010
VII	74	[®] Diboron trioxide*	1303-86-2	^{^1} N.D.	0.010
VIII	136	Lead bis(tetrafluoroborate)*	13814-96-5	^{^1} N.D.	0.010
XI	154	[®] Sodium peroxometaborate perboric acid, sodium salt*	/	^{^1} N.D.	0.010
XI	155	[®] Sodium peroxometaborate*	7632-04-4	^{^1} N.D.	0.010
XIX	186	[®] Disodium octaborate*	12008-41-2	^{^1} N.D.	0.010
XXV	218	[®] Orthoboric acid, sodium salt (Group) *	/	^{^1} N.D.	0.010
/	/	Other tested SVHC in candidate list	/	N.D.	/

Batch	No.	Test item(s)	CAS No.	Result(s),%	RL (%)
				T15	
I	4	Cobalt dichloride*	7646-79-9	^{^2} N.D.	0.010
IV	37	Cobalt(II) sulphate*	10124-43-3	^{^2} N.D.	0.010
IV	38	Cobalt(II) dinitrate*	10141-05-6	^{^2} N.D.	0.010
IV	39	Cobalt(II) carbonate*	513-79-1	^{^2} N.D.	0.010
IV	40	Cobalt(II) diacetate*	71-48-7	^{^2} N.D.	0.010
XIV	164	1,3-propanesultone	1120-71-4	0.149	0.050
/	/	Other tested SVHC in candidate list	/	N.D.	/

Batch	No.	Test item(s)	CAS No.	Result(s),%			RL (%)
				T16	T17	T18	
XIX	189	Lead	7439-92-1	2.245	1.772	1.586	0.010
/	/	Other tested SVHC in candidate list	/	N.D.	N.D.	N.D.	/

Group Description:

Group	No.
T1	5+8+11+12+23+24+25+26+35+41+42+44+52+54+61+66+70+73
T2	74+78+80+81+83+84+85+87+89+90+92+94+96+98+103+105+109+112+113+115
T3	116+117+120+122+123+125+126+127+129+130+131+132+133+136+143+147+150+153+155
T4	156+157+160+163+164+165+166+172+173+174+175+178+180+182+183+186+187+188+189+190
T5	191+194+197+199+200+203+206+208+215+222+225+226+228+229+233+235+240+241+242+243
T6	247+249+251
T7	1+3+6+7+9+10+13+14+15+16+17+18+19+20+21+22+27+28+29+30
T8	31+32+33+34+36+37+38+39+40+43+45+46+47+48+49+50+51+53+55+56
T9	57+58+59+60+62+63+65+67+68+69+71+72+75+77+79+82+88+91+93+95
T10	97+99+100+101+102+104+106+107+108+110+111+114+118+119+121+124+128+134+135+137
T11	138+140+141+142+144+145+148+151+152+154+158+159+161+162+167+168+169+170+171+176
T12	177+179+181+184+185+192+193+195+196+198+201+202+204+205+209+210+211+212+213+214
T13	216+217+218+219+220+221+223+227+230+231+234+236+237+238+239+244+245+246+248
T14	64+76+86+139+149+207+224+232+250
T15	252+253+254+255+256+257+258
T16	2
T17	4
T18	146

Part Description:

No.	Description	No.	Description
1	Black plastic pedestal	2	Golden metal nut of black plastic pedestal
3	Black plastic bracket	4	Golden metal nut of lack plastic bracket
5	Black metal strip	6	Red plastic
7	Black plastic	8	Cupreous copper foil
9	Silvery grey tape	10	Silvery conductive cloth
11	Black metal label	12	Black metal button
13	Black plastic sheet with glue	14	Transparent plastic frame
15	Black cloth mesh tape	16	Black plastic sheet
17	Silvery tape	18	Silvery/Black foam with tape
19	Black rubber	20	Black rubber plug
21	Black tape	22	Black plastic frame
23	Silvery metal screw 1	24	Silvery metal screw 2
25	Silvery metal screw 3	26	Black metal screw
27	Black glass screen	28	Silvery plastic sheet
29	FPC	30	LED
31	Translucent plastic sheet	32	Frosted white plastic
33	Transparent plastic plate	34	Silvery reflective plastic sheet
35	Silvery metal plate	36	Black tape
37	FPC	38	Chip of FPC
39	Black foam of FPC	40	Black plastic of black interface
41	Metal plug pin of black interface	42	Golden metal contact pin
43	Black wire jacket	44	Core of wire
45	Black foam	46	Black plastic shell of camera 1
47	Black plastic pedestal of camera 1	48	Lens of camera 1
49	COMS photosensitive components of camera 1	50	FPC of camera 1
51	Black plastic of black interface of camera 1	52	Metal plug pin of black interface of camera 1
53	Black tape of camera 1	54	Black plastic shell of camera 2
55	Black plastic pedestal of camera 2	56	Lens of camera 2
57	COMS photosensitive components of camera 2	58	FPC of camera 2
59	Brown plastic sheet of camera 2	60	Silvery tape of camera 2
61	Silvery metal shell	62	Black tape of silvery metal shell
63	White label of silvery metal shell	64	Blue PCBA (mixed test)
65	White colloid	66	Golden metal stylus
67	White paper	68	Black foam

No.	Description	No.	Description
69	Black plastic of black interface	70	Metal plug pin of black interface
71	Black plastic of black/white interface	72	White plastic of black/white interface
73	Metal plug pin of black/white interface	74	Golden metal shell of antenna interface
75	Black plastic pedestal of antenna interface	76	Black PCB
77	Black plastic of black interface	78	Metal plug pin of black interface
79	Black plastic of SIM2 interface	80	Silvery metal shell of SIM2 interface
81	Metal plug pin of SIM2 interface	82	Black plastic of SIM1 interface
83	Silvery metal shell of SIM1 interface	84	Metal plug pin of SIM1 interface
85	Silvery metal plate	86	Green PCBA (mixed test)
87	Golden metal shell of antenna interface	88	Black plastic pedestal of antenna interface
89	Silvery metal stylus	90	Silvery metal shell of silvery interface
91	Black plastic of silvery interface	92	Metal plug pin of silvery interface
93	Red colloid of silvery interface	94	Silvery metal stylus
95	Black plastic of black interface	96	Metal plug pin of black interface
97	Yellow tape	98	Silvery metal shell of silvery metal components
99	Plastic pedestal of silvery metal components	100	Yellow FPC
101	Black foam of yellow FPC	102	Black plastic of black interface of yellow FPC
103	Metal plug pin of black interface of yellow FPC	104	Yellow LED1
105	Silvery metal plate	106	Black plastic border
107	Yellow LED2	108	Black tape
109	Silvery metal shrapnel	110	Black plastic shell of speaker 1
111	Black plastic frame of speaker 1	112	Silvery metal shell of speaker 1
113	Magnet of speaker 1	114	Sound basin of speaker 1
115	Voice coil of speaker 1	116	Silvery sheet metal 1 of speaker 1
117	Silvery metal sheet 2 of speaker 1	118	Black fabric net 1 of speaker 2
119	Black fabric net 2 of speaker 2	120	Silvery metal sheet of speaker 2
121	Sound basin of speaker 2	122	Voice coil of speaker 2
123	Silvery metal frame of speaker 2	124	Black plastic frame of speaker 2
125	Silvery metal shell of speaker 2	126	Magnet of speaker 2
127	Golden metal stylus of speaker 2	128	Black rubber jacket
129	Silvery metal block	130	Silvery metal shell
131	Silvery magnet	132	Cupreous metal coil
133	Silvery metal rod	134	Black plastic

No.	Description	No.	Description
135	White plastic pedestal	136	Golden metal stylus
137	Black double-sided adhesive	138	Yellow tape
139	Yellow PCBA (mixed test)	140	Yellow FPC
141	Black foam of yellow FPC	142	Black plastic of black interface of yellow FPC
143	Metal plug pin of black interface of yellow FPC	144	White plastic shell 1
145	White plastic shell 2	146	Silvery metal head
147	Silvery metal sheet	148	Black plastic shell
149	Green PCBA (mixed test)	150	FR1 color ring inductor
151	Black casing tube of FR1 color ring inductor	152	White colloid
153	L1 color ring inductor	154	Black casing tube of L1 color ring inductor
155	Aluminum shell of C2 electrolytic capacitor	156	Anode foil of C2 electrolytic capacitor
157	Cathode foil of C2 electrolytic capacitor	158	Electrolytic paper of C2 electrolytic capacitor
159	Rubber blanket of C2 electrolytic capacitor	160	Electrode pin of C2 electrolytic capacitor
161	Brown plastic jacket of C2 electrolytic capacitor	162	Plastic skeleton of transformer T1
163	Magnet core of transformer T1	164	Cupreous metal coil of transformer T1
165	Varnished wire of transformer T1	166	Metal pin of transformer T1
167	Transparent casing tube of transformer T1	168	Yellow tape of transformer T1
169	Green tape of transformer T1	170	Transparent tape of transformer T1
171	Blue body of CY1 capacitor	172	Metal pin of CY1 capacitor
173	Aluminum shell of C7 electrolytic capacitor	174	Anode foil of C7 electrolytic capacitor
175	Cathode foil of C7 electrolytic capacitor	176	Electrolytic paper of C7 electrolytic capacitor
177	Rubber blanket of C7 electrolytic capacitor	178	Electrode pin of C7 electrolytic capacitor
179	Green plastic jacket of C7 electrolytic capacitor	180	Silvery metal shell of USB interface
181	White plastic of USB interface	182	Metal plug pin of USB interface
183	Tin solder	184	White plastic shell 1
185	White plastic shell 2	186	Silvery metal rod

No.	Description	No.	Description
187	Silvery metal hat	188	Silvery metal contact pin
189	Aluminum shell of C6 electrolytic capacitor	190	Anode foil of C6 electrolytic capacitor
191	Cathode foil of C6 electrolytic capacitor	192	Electrolytic paper of C6 electrolytic capacitor
193	Rubber blanket of C6 electrolytic capacitor	194	Electrode pin of C6 electrolytic capacitor
195	White encapsulation of USB interface	196	Red label of USB interface
197	Silvery metal shell of USB interface	198	White plastic of USB interface
199	Metal plug pin of USB interface	200	Tin solder of USB interface
201	Translucent plastic of USB interface	202	White encapsulation of Type-c interface
203	Silvery metal shell of Type-c interface	204	White plastic of Type-c interface
205	Black plastic of Type-c interface	206	Metal plug pin of Type-c interface
207	Blue PCB of Type-c interface	208	Tin solder of Type-c interface
209	Translucent plastic of Type-c interface	210	White exterior wire jacket
211	Black wire jacket	212	Green wire jacket
213	Red wire jacket	214	White wire jacket
215	Core of wire	216	White plastic shell 1
217	Black fabric net of white plastic shell 1	218	White plastic shell 2
219	Black fabric net of white plastic shell 2	220	White plastic shell 3
221	White rubber of white plastic shell 3	222	Silvery metal pedestal of headphone-speaker
223	White cloth net of headphone-speaker	224	Green PCB of headphone-speaker
225	Tin solder of headphone-speaker	226	Silvery magnet of headphone-speaker
227	Sound basin of headphone-speaker	228	Voice coil of headphone-speaker
229	Silvery metal shell of headphone-speaker	230	White colloid of headphone-speaker
231	White paper with glue of headphone-speaker	232	Blue PCB
233	Tin solder	234	Microphone body of MIC
235	Silvery metal shrapnel	236	White rubber buckle
237	White rubber	238	White wire jacket 1
239	White wire jacket 2	240	Golden metal wire
241	Red metal wire	242	Green metal wire
243	Blue metal wire	244	White fiber
245	White plastic shell of Type-c interface	246	White encapsulation of Type-c interface
247	Silvery metal shell of Type-c interface	248	Black plastic of Type-c interface
249	Metal plug pin of Type-c interface	250	Blue PCB of Type-c interface
251	Tin solder of Type-c interface	252	Aluminum foil of cell

No.	Description	No.	Description
253	Cupreous foil of cell	254	Diaphragm of cell
255	Electrode material of cell	256	Silvery metal shell of cell
257	Aluminum plastic sheet of cell	258	Silvery metal sheet of cell

All tested SVHC in candidate list:

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
I	1	Anthracene	120-12-7	204-371-1	0.050
I	2	4,4'- Diaminodiphenylmethane	101-77-9	202-974-4	0.050
I	3	Dibutyl phthalate(DBP)	84-74-2	201-557-4	0.050
I	4	Cobalt dichloride*	7646-79-9	231-589-4	0.010
I	5	Diarsenic pentaoxide*	1303-28-2	215-116-9	0.010
I	6	Diarsenic trioxide*	1327-53-3	215-481-4	0.010
I	7	Sodium dichromate*	7789-12-0/ 10588-01-9	234-190-3	0.010
I	8	Musk xylene	81-15-2	201-329-4	0.050
I	9	Bis(2-ethylhexyl) phthalate (DEHP)	117-81-7	204-211-0	0.050
I	10	Hexabromocyclododecane (HBCDD)	25637-99-4/ 3194-55-6	247-148-4/ 221-695-9	0.050
I	11	ShortChain ChlorinatedParaffins(SCCPs)	85535-84-8	287-476-5	0.050
I	12	Bis(tributyltin)oxide (TBTO)*	56-35-9	200-268-0	0.050
I	13	Lead hydrogen arsenate*	7784-40-9	232-064-2	0.010
I	14	Benzyl butyl phthalate(BBP)	85-68-7	201-622-7	0.050
I	15	Triethyl arsenate*	15606-95-8	427-700-2	0.010
II	16	^① Anthracene oil	90640-80-5	292-602-7	0.050
II	17	^① Anthracene oil, anthracene paste, distn. Lights	91995-17-4	295-278-5	0.050
II	18	^① Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	295-275-9	0.050
II	19	^① Anthracene oil, anthracene-low	90640-82-7	292-604-8	0.050
II	20	^① Anthracene oil, anthracene paste	90640-81-6	292-603-2	0.050
II	21	^① Coal tar pitch, high temperature	65996-93-2	266-028-2	0.050
II	22	Acrylamide	79-06-1	201-173-7	0.050
II	23	2,4-Dinitrotoluene	121-14-2	204-450-0	0.050
II	24	Diisobutyl phthalate (DIBP)	84-69-5	201-553-2	0.050
II	25	^② Lead chromate	7758-97-6	231-846-0	0.010
II	26	^② Lead chromate molybdate sulphateRed (C.I. Pigment Red 104)	12656-85-8	235-759-9	0.010
II	27	^② Lead sulfochromate yellow(C.I. Pigment Yellow 34)	1344-37-2	215-693-7	0.010
II	28	Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	204-118-5	0.050
III	29	Trichloroethylene	79-01-6	201-167-4	0.050
III	30	^③ Boric acid*	10043-35-3/ 11113-50-1	233-139-2/ 234-343-4	0.010

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
III	31	^③ Disodium tetraborate, anhydrous*	1330-43-4/ 12179-04-3/ 1303-96-4	215-540-4	0.010
III	32	^③ Tetraboron disodium heptaoxide, hydrate*	12267-73-1	235-541-3	0.010
III	33	Sodium chromate*	7775-11-3	231-889-5	0.010
III	34	Potassium chromate*	7789-00-6	232-140-5	0.010
III	35	Ammonium dichromate*	7789-09-5	232-143-1	0.010
III	36	Potassium dichromate*	7778-50-9	231-906-6	0.010
IV	37	Cobalt(II) sulphate*	10124-43-3	233-334-2	0.010
IV	38	Cobalt(II) dinitrate*	10141-05-6	233-402-1	0.010
IV	39	Cobalt(II) carbonate*	513-79-1	208-169-4	0.010
IV	40	Cobalt(II) diacetate*	71-48-7	200-755-8	0.010
IV	41	2-Methoxyethanol	109-86-4	203-713-7	0.050
IV	42	2-Ethoxyethanol	110-80-5	203-804-1	0.050
IV	43	Chromium trioxide*	1333-82-0	215-607-8	0.010
IV	44	Acids generated from chromium trioxide and their oligomers: Chromic acid, Dichromic acid, Oligomers of chromic acid and dichromic acid*	7738-94-5/ 13530-68-2	231-801-5/ 236-881-5	0.010
V	45	2-ethoxyethyl acetate	111-15-9	203-839-2	0.050
V	46	Strontium chromate*	7789-6-2	232-142-6	0.010
V	47	^① 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters	68515-42-4	271-084-6	0.050
V	48	Hydrazine	7803-57-8/ 302-01-2	206-114-9	0.050
V	49	1-methyl-2-pyrrolidone	872-50-4	212-828-1	0.050
V	50	1,2,3-trichloropropane	96-18-4	202-486-1	0.050
V	51	^① 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters, C7-rich	71888-89-6	276-158-1	0.050
VI	52	Dichromium tris(chromate)*	24613-89-6	246-356-2	0.010
VI	53	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	234-329-8	0.010
VI	54	Pentazinc chromate octahydroxide*	49663-84-5	256-418-0	0.010
VI	55	^② Aluminosilicate Refractory Ceramic Fibres (RCF) **	/	/	0.010
VI	56	^② Zirconia Aluminosilicate Refractory Ceramic Fibres (Zr-RCF) **	/	/	0.010

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
VI	57	^① Formaldehyde, oligomeric reaction products with aniline (technical MDA)	25214-70-4	500-036-1	0.050
VI	58	Bis(2-methoxyethyl) phthalate	117-82-8	204-212-6	0.050
VI	59	2-Methoxyaniline (o-Anisidine)	90-04-0	201-963-1	0.050
VI	60	4-(1,1,3,3-tetramethylbutyl)phenol (4-tert-Octylphenol)	140-66-9	205-426-2	0.050
VI	61	1,2-Dichloroethane	107-06-2	203-458-1	0.050
VI	62	Bis(2-methoxyethyl) ether	111-96-6	203-924-4	0.050
VI	63	Arsenic acid*	7778-39-4	231-901-9	0.010
VI	64	Calcium arsenate*	7778-44-1	231-904-5	0.010
VI	65	Trilead diarsenate*	3687-31-8	222-979-5	0.010
VI	66	N,N-dimethylacetamide (DMAC)	127-19-5	204-826-4	0.050
VI	67	2,2'-dichloro-4,4'-methylenedianiline (MOCA)	101-14-4	202-918-9	0.050
VI	68	Phenolphthalein	77-09-8	201-004-7	0.050
VI	69	Lead diazide*	13424-46-9	236-542-1	0.010
VI	70	Lead 2,4,6-trinitro-m-phenylene dioxide (Lead styphnate)*	15245-44-0	239-290-0	0.010
VI	71	Lead dipicrate*	6477-64-1	229-335-2	0.010
VII	72	1,2-bis(2-methoxyethoxy) ethane (TEGDME; triglyme)	112-49-2	203-977-3	0.050
VII	73	1,2-dimethoxyethane; ethylene glycol dimethyl ether (EGDME)	110-71-4	203-794-9	0.050
VII	74	^③ Diboron trioxide*	1303-86-2	215-125-8	0.010
VII	75	Formamide	75-12-7	200-842-0	0.050
VII	76	Lead(II) bis methanesulfonate*	17570-76-2	401-750-5	0.010
VII	77	TGIC(1,3,5-tris(oxiranylmethyl)-1,3,5-triazine-2,4,6(1H,3H,5H)-trione)	2451-62-9	219-514-3	0.050
VII	78	β -TGIC (1,3,5-tris[(2S and 2R)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H,3H,5H)-trione)	59653-74-6	423-400-0	0.050
VII	79	4,4'-bis(dimethylamino) benzophenone (Michler's ketone)	90-94-8	202-027-5	0.050
VII	80	N,N,N',N'-tetramethyl-4,4'-methylenedianiline (Michler's base)	101-61-1	202-959-2	0.050
VII	81	[4-[4,4'-bis(dimethylamino) benzhydrylidene]cyclohexa-2,5-dien-1-ylidene] dimethylammonium chloride(C.I. Basic Violet 3)	548-62-9	208-953-6	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
VII	82	[4-[[4-anilino-1-naphthyl] [4-(dimethylamino)phenyl]methylene]cycl ohexa-2,5- dien-1-ylidene] dimethylammonium chloride(C.I. Basic Blue 26)	2580-56-5	219-943-6	0.050
VII	83	α,α -Bis[4-(dimethylamino)phenyl]-4 (phenylamino)naphthalene-1-methanol (C .I. Solvent Blue 4)	6786-83-0	229-851-8	0.050
VII	84	4,4'-bis(dimethylamino)-4''-(methylamino)t rityl alcohol	561-41-1	209-218-2	0.050
VIII	85	Bis(pentabromophenyl) ether (decabromodiphenyl ether; DecaBDE)	1163-19-5	214-604-9	0.050
VIII	86	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]	/	/	0.050
VIII	87	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide))	123-77-3	204-650-8	0.050
VIII	88	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated [covering well-defined substances and UVCB substances, polymers and homologues]	/	/	0.050
VIII	89	Henicosafuoroundecanoic acid	2058-94-8	218-165-4	0.050
VIII	90	Pentacosafuorotridecanoic acid	72629-94-8	276-745-2	0.050
VIII	91	Cyclohexane-1,2-dicarboxylic anhydride, cis-cyclohexane- 1,2- dicarboxylic anhydride, trans- cyclohexane-1,2-dicarboxylic anhydride	85-42-7/ 13149-00-3/ 14166-21-3	201-604-9/ 236-086-3/ 238-009-9	0.050
VIII	92	Hexahydromethylphthalic anhydride, Hexahydro-4-methylphthalic anhydride, Hexahydro-1-methylphthalic anhydride, Hexahydro-3-methylphthalic anhydride	25550-51-0/ 19438-60-9/ 48122-14-1/ 57110-29-9	247-094-1/ 243-072-0/ 256-356-4/ 260-566-1	0.050
VIII	93	Heptacosafuorotetradecanoic acid	376-06-7	206-803-4	0.050
VIII	94	Diisopentylphthalate(DIPP)	605-50-5	210-088-4	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
VIII	95	1,2-Benzenedicarboxylic acid, dipentylester, branched and linear	84777-06-0	284-032-2	0.050
VIII	96	N-pentyl-isopentylphthalate	776297-69-9	/	0.050
VIII	97	Methoxyacetic acid	625-45-6	210-894-6	0.050
VIII	98	Tricosafuorododecanoic acid	307-55-1	206-203-2	0.050
VIII	99	1,2-Diethoxyethane	629-14-1	211-076-1	0.050
VIII	100	3-ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazolidine	143860-04-2	421-150-7	0.050
VIII	101	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	202-453-1	0.050
VIII	102	N-methylacetamide	79-16-3	201-182-6	0.050
VIII	103	Pentalead tetraoxide sulphate*	12065-90-6	235-067-7	0.010
VIII	104	Biphenyl-4-ylamine	92-67-1	202-177-1	0.050
VIII	105	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	201-861-7	0.050
VIII	106	Dioxobis(stearato)trilead*	12578-12-0	235-702-8	0.010
VIII	107	Lead dinitrate*	10099-74-8	233-245-9	0.010
VIII	108	Tetralead trioxide sulphate*	12202-17-4	235-380-9	0.010
VIII	109	Lead monoxide (lead oxide)*	1317-36-8	215-267-0	0.010
VIII	110	Lead titanium trioxide*	12060-00-3	235-038-9	0.010
VIII	111	4,4'-methylenedi-o-toluidine	838-88-0	212-658-8	0.050
VIII	112	Acetic acid, lead salt, basic*	51404-69-4	257-175-3	0.010
VIII	113	Dimethyl sulphate	77-78-1	201-058-1	0.050
VIII	114	Furan	110-00-9	203-727-3	0.050
VIII	115	Pyrochlore, antimony lead yellow*	8012-00-8	232-382-1	0.010
VIII	116	Tetraethyllead*	78-00-2	201-075-4	0.010
VIII	117	[Phthalato(2-)]dioxotrilead*	69011-06-9	273-688-5	0.010
VIII	118	Diethyl sulphate	64-67-5	200-589-6	0.050
VIII	119	Lead cyanamidate*	20837-86-9	244-073-9	0.010
VIII	120	Silicic acid (H ₂ Si ₂ O ₅), barium salt (1:1), lead-doped*	68784-75-8	272-271-5	0.010
VIII	121	Trilead dioxide phosphonate*	12141-20-7	235-252-2	0.010
VIII	122	o-Toluidine	95-53-4	202-429-0	0.050
VIII	123	o-aminoazotoluene	97-56-3	202-591-2	0.050
VIII	124	4-aminoazobenzene	60-09-3	200-453-6	0.050
VIII	125	6-methoxy-m-toluidine (p-cresidine)	120-71-8	204-419-1	0.050
VIII	126	Dibutyltin dichloride (DBTC)	683-18-1	211-670-0	0.050
VIII	127	Lead titanium zirconium oxide*	12626-81-2	235-727-4	0.010
VIII	128	Methyloxirane (Propylene oxide)	75-56-9	200-879-2	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
VIII	129	1-bromopropane (n-propyl bromide)	106-94-5	203-445-0	0.050
VIII	130	Trilead bis(carbonate)dihydroxide*	1319-46-6	215-290-6	0.010
VIII	131	Fatty acids, C16-18, lead salts*	91031-62-8	292-966-7	0.010
VIII	132	Orange lead (lead tetroxide)*	1314-41-6	215-235-6	0.010
VIII	133	Sulfurous acid, lead salt, dibasic*	62229-08-7	263-467-1	0.010
VIII	134	4,4'-oxydianiline and its salts	101-80-4	202-977-0	0.050
VIII	135	Lead oxide sulfate*	12036-76-9	234-853-7	0.010
VIII	136	Lead bis(tetrafluoroborate)*	13814-96-5	237-486-0	0.010
VIII	137	Silicic acid, lead salt*	11120-22-2	234-363-3	0.010
VIII	138	N,N-dimethylformamide	68-12-2	200-679-5	0.050
IX	139	Cadmium	7440-43-9	231-152-8	0.010
IX	140	Cadmium oxide*	1306-19-0	215-146-2	0.010
IX	141	Dipentyl phthalate (DPP)	131-18-0	205-017-9	0.050
IX	142	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]	/	/	0.050
IX	143	Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	223-320-4	0.050
IX	144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	206-397-9	0.050
X	145	^① Trixylyl phosphate	25155-23-1	246-677-8	0.050
X	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)	1937-37-7	217-710-3	0.050
X	147	Dihexyl phthalate	84-75-3	201-559-5	0.050
X	148	Cadmium sulphide*	1306-23-6	215-147-8	0.010
X	149	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-aminonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	209-358-4	0.050
X	150	Lead di(acetate)*	301-04-2	206-104-4	0.010
X	151	Imidazolidine-2-thione; 2-imidazoline-2-thiol	96-45-7	202-506-9	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
XI	152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	271-093-5	0.050
XI	153	Cadmium chloride	10108-64-2	233-296-7	0.010
XI	154	[®] Sodium peroxometaborate perboric acid, sodium salt*	/	239-172-9/ 234-390-0	0.010
XI	155	[®] Sodium peroxometaborate*	7632-04-4	231-556-4	0.010
XII	156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphenol (UV-328)	25973-55-1	247-384-8	0.050
XII	157	2-(2'-Hydroxy-3',5'-di-tert-butylphenyl)benzotriazole (UV-320)	3846-71-7	223-346-6	0.050
XII	158	Cadmium fluoride*	7790-79-6	232-222-0	0.010
XII	159	Cadmium sulphate*	10124-36-4/ 31119-53-6	233-331-6	0.010
XII	160	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate; DOTE	15571-58-1	239-622-4	0.050
XII	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-ethylhexyloxy)-2-oxoethyl]thio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannatetradecanoate (reaction mass of DOTE and MOTE)	/	/	0.050
XIII	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 (EC No. 201-559-5)	68515-51-5/ 68648-93-1	271-094-0/ 272-013-1	0.050
XIII	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 stereoisomers of [1] and [2] or any combination thereof]	/	/	0.050
XIV	164	1,3-propanesultone	1120-71-4	214-317-9	0.050
XIV	165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl)phenol (UV-327)	3864-99-1	223-383-8	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
XIV	166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	253-037-1	0.050
XIV	167	Nitrobenzene	98-95-3	202-716-0	0.050
XIV	168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1/ 21049-39-8/ 4149-60-4	206-801-3	0.050
XV	169	Benzo[def]chrysene	50-32-8	200-028-5	0.050
XVI	170	Bisphenol(BPA)	80-05-7	201-245-8	0.050
XVI	171	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)	/	/	0.050
XVI	172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7/ 335-76-2/ 3830-45-3	206-400-3/ 221-470-5	0.050
XVI	173	4-tert-amylphenol	80-46-6	201-280-9	0.050
XVII	174	Perfluorohexane-1-sulphonic acid and its salts (PFHxS)	/	/	0.050
XVIII	175	Dechlorane plus (including any of its individual anti- and syn-isomers or any combination thereof)	13560-89-9/ 135821-74-8/ 135821-03-3	/	0.050
XVIII	176	Benzo[a]anthracene	56-55-3	200-280-6	0.050
XVIII	177	Cadmium nitrate*	10325-94-7	233-710-6	0.010
XVIII	178	Cadmium carbonate*	513-78-0	208-168-9	0.010
XVIII	179	Cadmium hydroxide*	21041-95-2	244-168-5	0.010
XVIII	180	Chrysene	218-01-9	205-923-4	0.050
XVIII	181	Reaction products of 1,3,4-thiadiazolidine-2,5-dithione, formaldehyde and 4-heptylphenol, branched and linear (RP-HP) [with ≥0.1% w/w 4-heptylphenol, branched and linear]	/	/	0.050
XIX	182	Benzene-1,2,4-tricarboxylic acid 1,2 anhydride (trimellitic anhydride, TMA)	552-30-7	209-008-0	0.050
XIX	183	Dicyclohexyl phthalate (DCHP)	84-61-7	201-545-9	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
XIX	184	Benzo[ghi]perylene	191-24-2	205-883-8	0.050
XIX	185	Decamethylcyclopentasiloxane (D5)	541-02-6	208-764-9	0.050
XIX	186	[®] Disodium octaborate*	12008-41-2	234-541-0	0.010
XIX	187	Dodecamethylcyclohexasiloxane (D6)	540-97-6	208-762-8	0.050
XIX	188	Ethylenediamine (EDA)	107-15-3	203-468-6	0.050
XIX	189	Lead	7439-92-1	231-100-4	0.010
XIX	190	Octamethylcyclotetrasiloxane (D4)	556-67-2	209-136-7	0.050
XIX	191	Terphenyl, hydrogenated	61788-32-7	262-967-7	0.050
XX	192	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2.2.1]heptan-2-one (3-benzylidene camphor)	15087-24-8	239-139-9	0.050
XX	193	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	401-720-1	0.050
XX	194	Benzo[k]fluoranthene	207-08-9	205-916-6	0.050
XX	195	Fluoranthene	206-44-0	205-912-4	0.050
XX	196	Phenanthrene	85-01-8	201-581-5	0.050
XX	197	Pyrene	129-00-0	204-927-3	0.050
XXI	198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with $\geq 0.1\%$ w/w of 4-nonylphenol, branched and linear (4-NP)	/	/	0.050
XXI	199	4-tert-butylphenol	98-54-4	202-679-0	0.050
XXI	200	2-methoxyethyl acetate	110-49-6	203-772-9	0.050
XXI	201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy) propionic acid, its salts and its acyl halides(covering any of their individual isomers and combinations thereof)	/	/	0.050
XXII	202	2-benzyl-2-dimethylamino-4'-morpholinobutyrophenone	119313-12-1	404-360-3	0.050
XXII	203	2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one	71868-10-5	400-600-6	0.050
XXII	204	Diisohexyl phthalate	71850-09-4	276-090-2	0.050
XXII	205	Perfluorobutane sulfonic acid (PFBS) and its salts	/	/	0.050
XXIII	206	1-vinylimidazole	1072-63-5	214-012-0	0.050
XXIII	207	2-methylimidazole	693-98-1	211-765-7	0.050
XXIII	208	Butyl 4-hydroxybenzoate	94-26-8	202-318-7	0.050
XXIII	209	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	245-152-0	0.050
XXIV	210	Bis(2-(2-methoxyethoxy)ethyl) ether	143-24-8	205-594-7	0.050

Batch	No.	Substance Name(s)	CAS No.	EC No.	RL (%)
XXIV	211	Diocetyl tin 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	/	/	0.050
XXV	212	1,4-dioxane	123-91-1	204-661-8	0.050
XXV	213	2,2-bis(bromomethyl)propane 1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-propanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0/ 36483-57-5, 1522-92-5/ 96-13-9	221-967-7/ 253-057-0/ 202-480-9	0.050
XXV	214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers	/	/	0.050
XXV	215	4,4'-(1-methylpropylidene) bisphenol (bisphenol B)	77-40-7	201-025-1	0.050
XXV	216	Glutaral	111-30-8	203-856-5	0.050
XXV	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]	/	/	0.050
XXV	218	[®] Orthoboric acid, sodium salt (Group) *	/	/	0.010
XXV	219	Phenol, alkylation products (mainly in para position) with C12-rich branched or linear alkyl chains from oligomerisation, covering any individual isomers and/or combinations thereof (PDDP)	/	/	0.050
XXVI	220	(±)-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)	/	/	0.050
XXVI	221	6,6'-di-tert-butyl-2,2'-methylene di-p-cresol	119-47-1	204-327-1	0.050
XXVI	222	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	255881-94-8	401-850-9	0.050
XXVI	223	tris(2-methoxyethoxy)vinylsilane	1067-53-4	213-934-0	0.050

Test Method:

With reference to NTEK in-house method, Analysis is performed by Liquid Chromatography Mass Spectrometry/ Mass Spectrometry (LC-MS/MS), Gas Chromatography and Mass Spectrometry (GC-MS), headspace GC-MS, Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES), UV-Vis spectrophotometer.

Notes:

1. “%” =percent by weight, 0.1% = 1000 mg/kg =1000 ppm
2. RL = Report Limit, N.D. = Not Detected (<RL), / = Not Regulated or Not Applicable
3. *: Concentration value of the substance by the conversion from the test results of certain elements.
Concentration value of Bis(tributyltin)oxide by the conversion from the test results of Tributyl Tins.
4. **: All refractory ceramic fibres are covered by index number 650-017-00-8 in Annex VI of the Regulation on Classification, Labeling and Packaging of chemical substances and mixtures, the so called CLP Regulation (Regulation (EC) No 1272/2008).
5. ①: In view of the substances are established as UVCB substances (substances of unknown or variable composition, complex reaction products or biological materials) consisting of different and variable constituents, the test results are calculated based on the main constituents of the representative compounds for substances.
6. ②: In view of the substance contain variable substances, the test results are calculated based on main constituents of the representative compounds for the substances, and the test results of therepresentative compounds are calculated based on the result of specified heavy metal elements.
7. ③: Concentration value of Boric acid; Disodium tetraborate, anhydrous; Tetraboron disodium heptaoxide, hydrate; Diboron trioxide; Sodium perborate; perboric acid, sodium salt; Sodium peroxometaborate; Disodium octaborate; Orthoboric acid, sodium salt (Group) is calculated by the conversion from the test results of certain elements and confirmed by appropriate solvent extraction, meanwhile the book of materials is suggested to be checked for further confirmation.
8. REACH regulations related to obligations
 - (a) The chemical analysis of SVHC is performed by means of currently available analytical Techniques against the list published by ECHA, and shall refer to <http://echa.europa.eu/web/guest/candidate-list-table>. This list is under evaluation by ECHA and may subject to change in the future;
 - (b) Concerning article(s):

Notification: In accordance with Regulation (EC) No 1907/2006, any producer or importer of 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) of the Regulation, if (i) the substance is present in those articles in quantities totaling over one tonne per producer or importer per year; and (ii) the substance is present in those articles above a concentration of 0.1% weight by weight (w/w);

Inform: Article 33 of Regulation (EC) No 1907/2006 requires supplier of an article containing a substance meeting the criteria in Article 57 and identified in accordance with Article 59(1) in a concentration above 0.1% weight by weight (w/w) shall provide the recipient of the article with sufficient information, available to the supplier, to allow safe use of the article including, as a minimum, the name of that substance;

(c) Concerning material(s):

Test results in this report are based on the tested sample. This report refers to testing result of tested sample submitted as homogenous material(s). In case such material is being used to compose an article, the results indicated in this report may not represent SVHC concentration in such article. If this report refers to testing result of composite material group by equal weight proportion, the material in each composite test group may come from more than one article. If the sample is a substance or mixture, and it directly exports to EU, client has the obligation to comply with the supply chain communication obligation under Article 31 of Regulation (EC) No. 1907/2006 and the conditions of Authorization of substance of very high concern included in the Annex XIV of the Regulation (EC) No. 1907/2006.

(d) Concerning substance and preparation:

If a SVHC is found over 0.1% (w/w) and/or the specific concentration limit which is set in Regulation (EC) No 1272/2008 and No 790/2009, client is suggested to prepare a Safety Data Sheet (SDS) against the SVHC to comply with the supply chain communication obligation under Regulation (EC) No 1907/2006.

9. ^{^1} As the client's declaration, the content of Boric was not from Boric acid, Disodium tetraborate, anhydrous, Tetraboron disodium heptaoxide, hydrate, Diboron trioxide, Lead bis(tetrafluoroborate), Sodium peroxometaborate perboric acid, sodium salt, Sodium peroxometaborate, Disodium octaborate, Orthoboric acid, sodium salt (Group).

^{^2} As the client's declaration, the content of Cobalt was not from Cobalt dichloride, Cobalt(II) sulphate, Cobalt(II) dinitrate, Cobalt(II) carbonate, Cobalt(II) diacetate.

Sample photo(s):



Fig.1



Fig.2



Fig.3

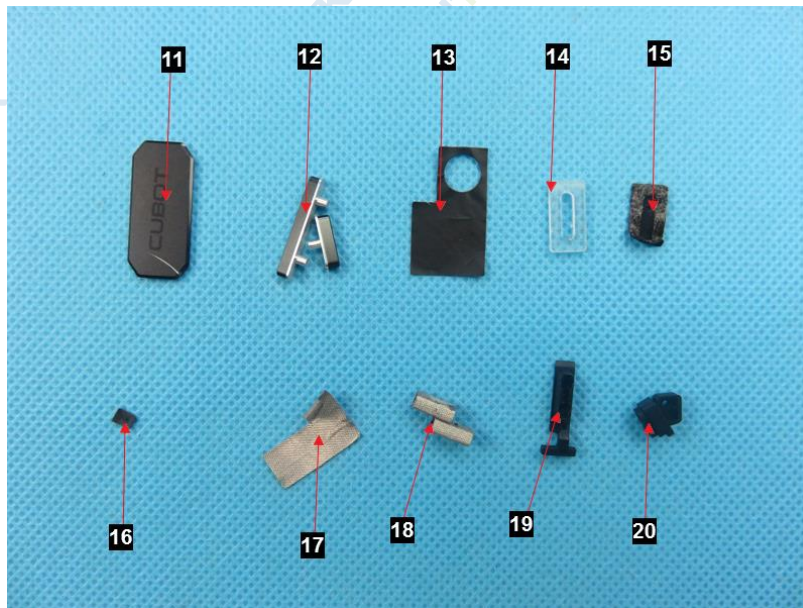


Fig.4

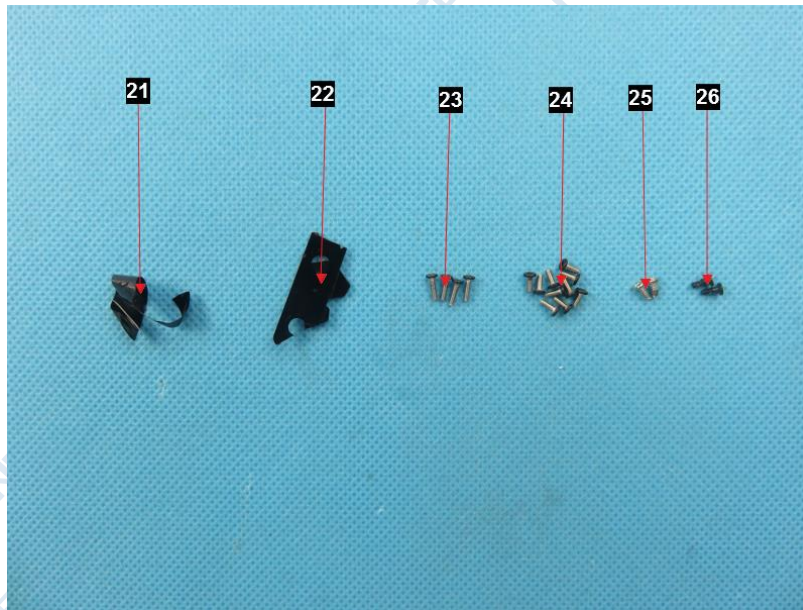


Fig.5

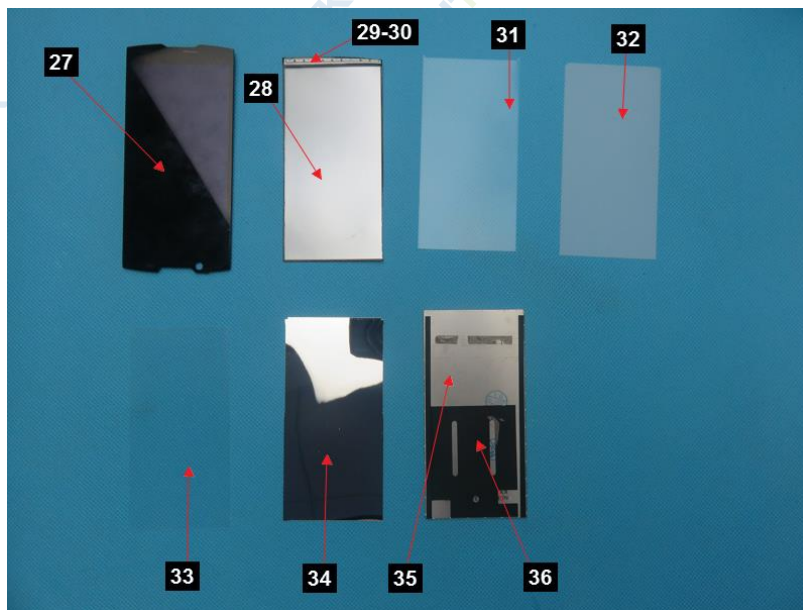


Fig.6

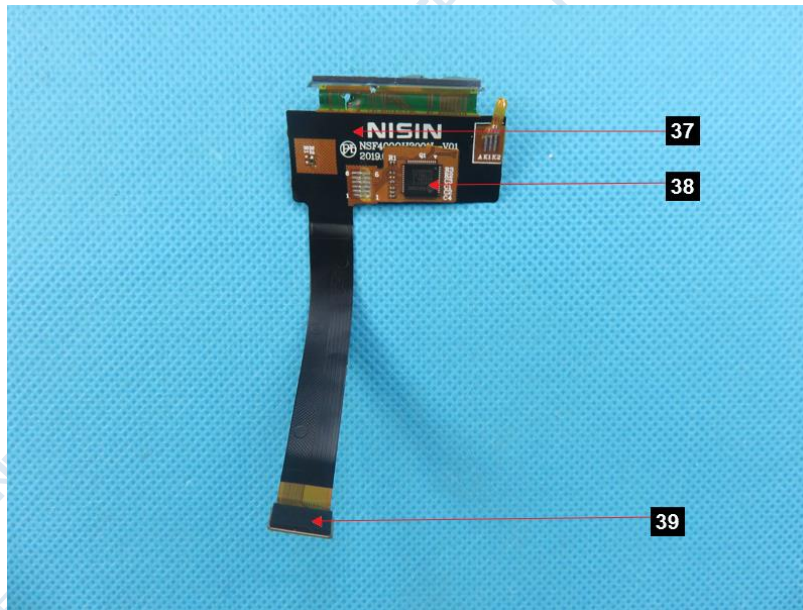


Fig.7

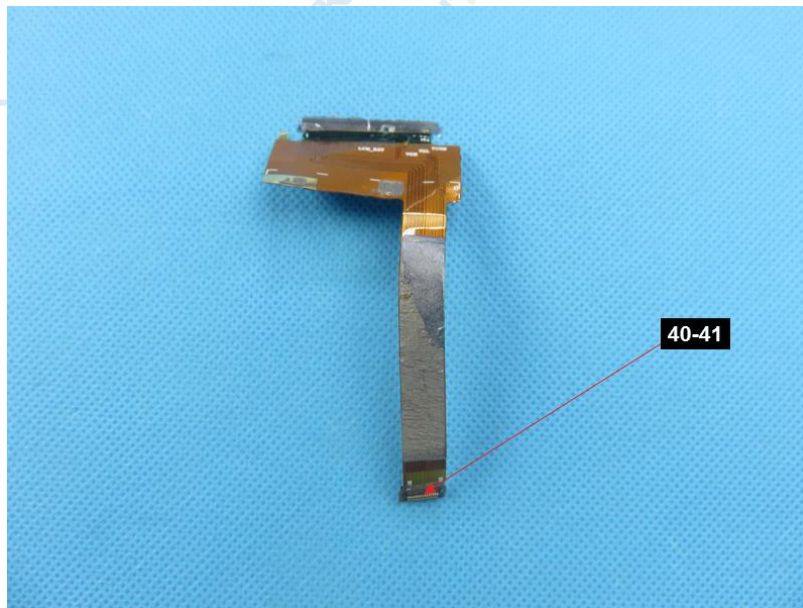


Fig.8

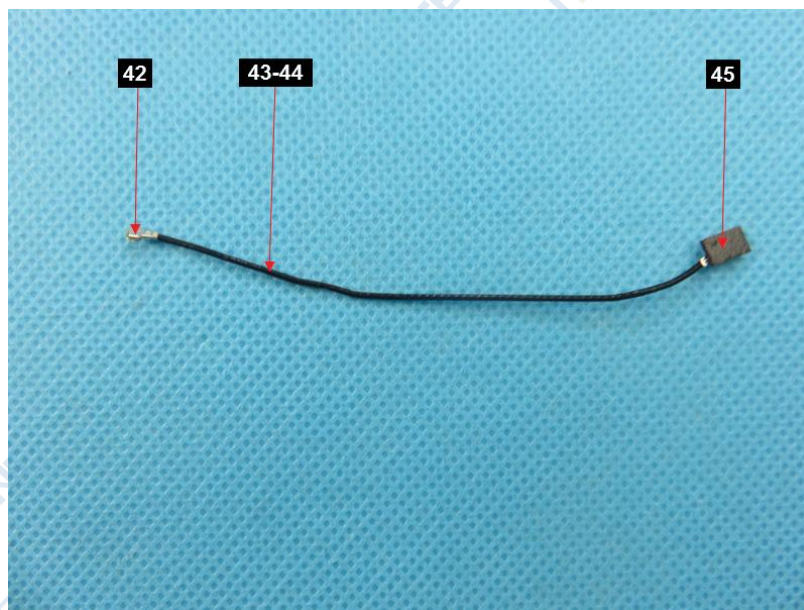


Fig.9

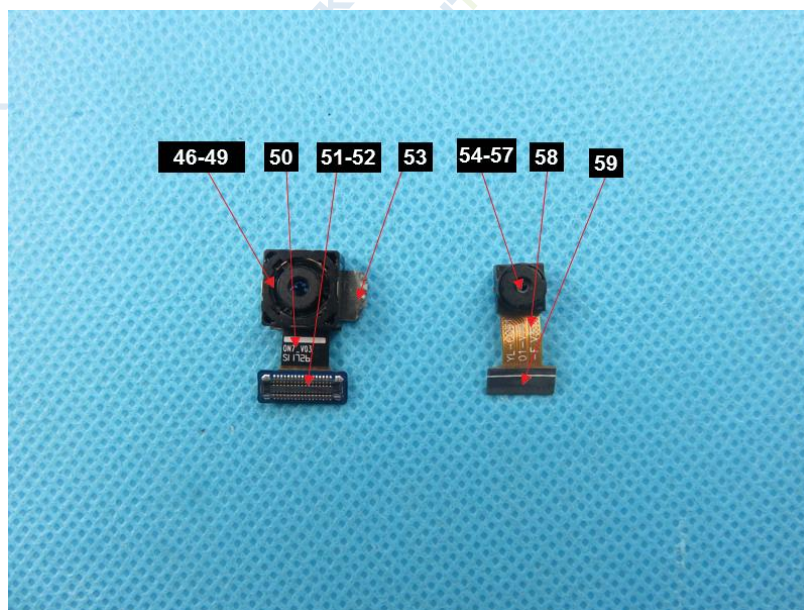


Fig.10

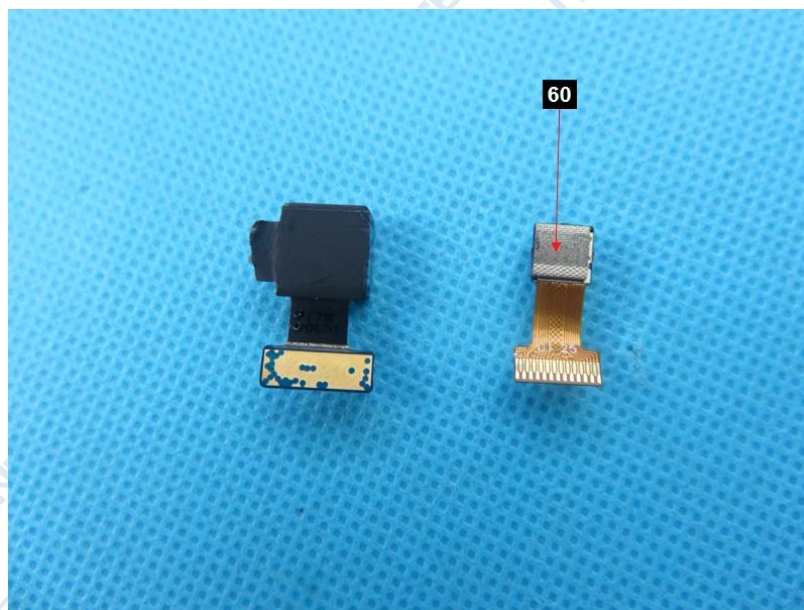


Fig.11

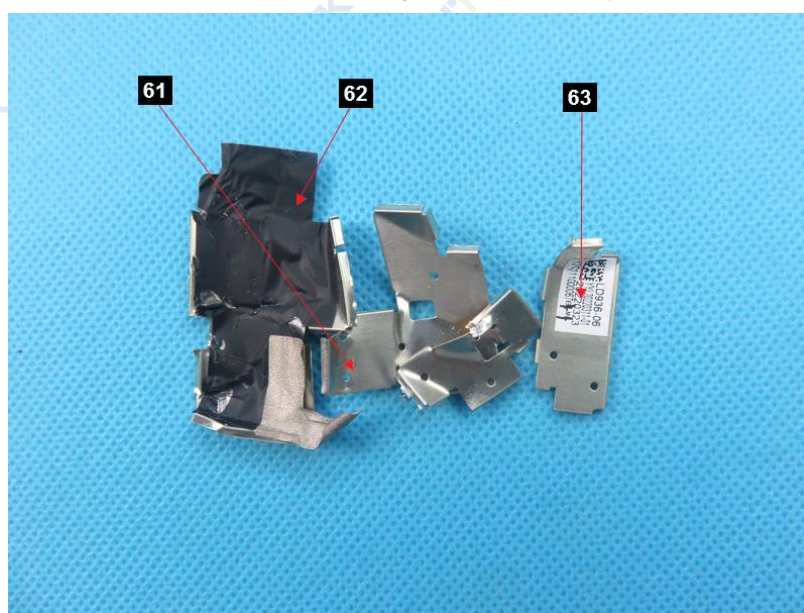


Fig.12

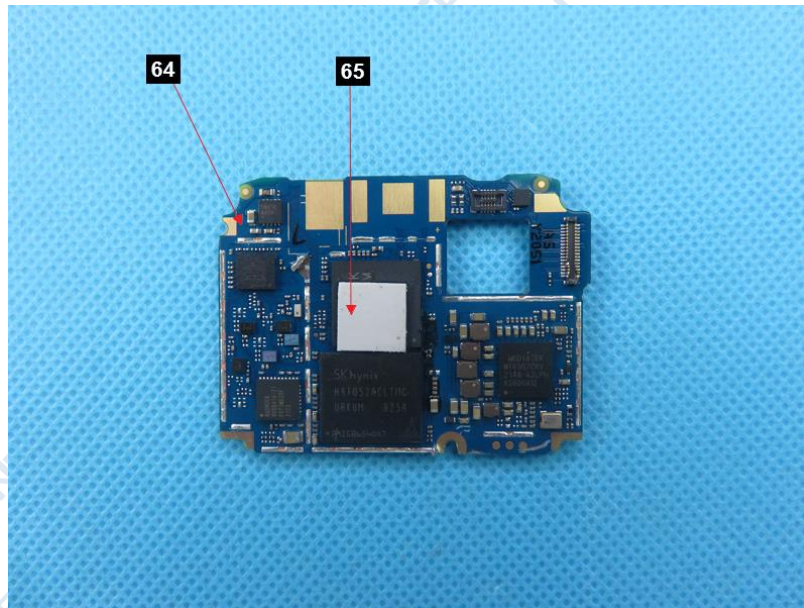


Fig.13

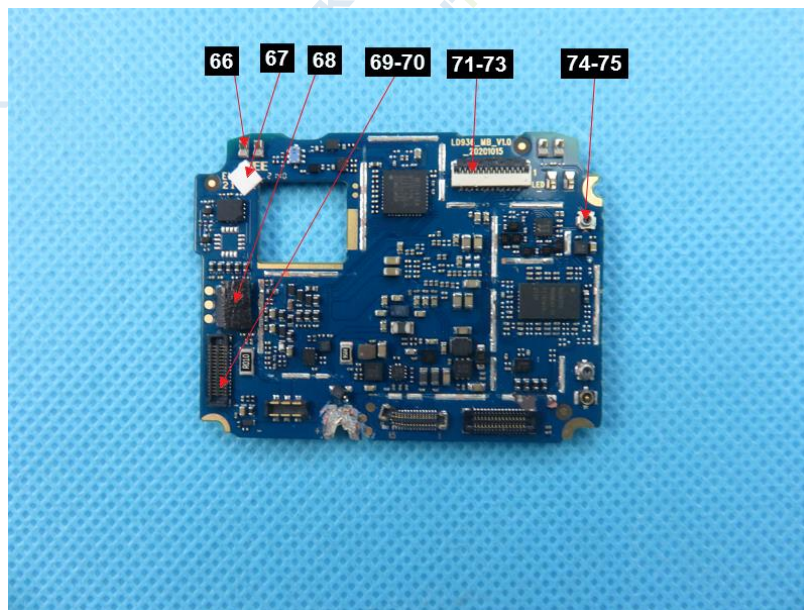


Fig.14

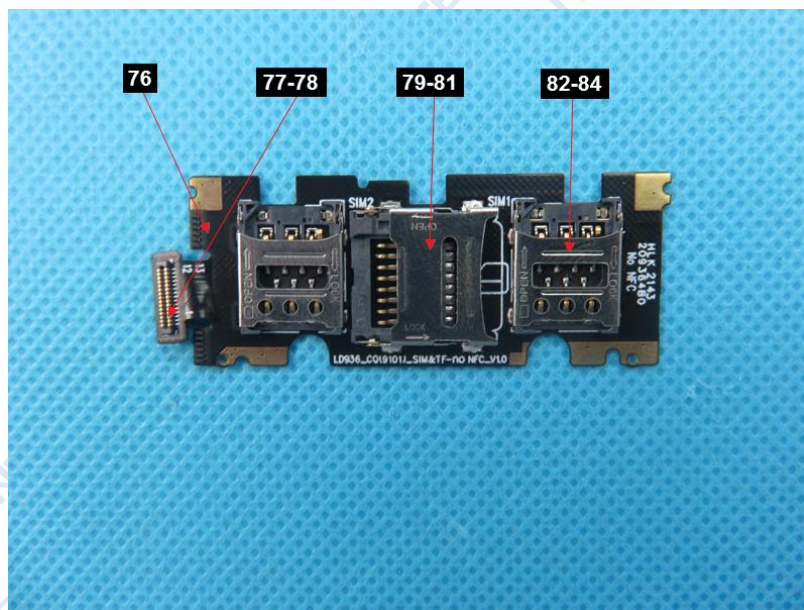


Fig.15



Fig.16

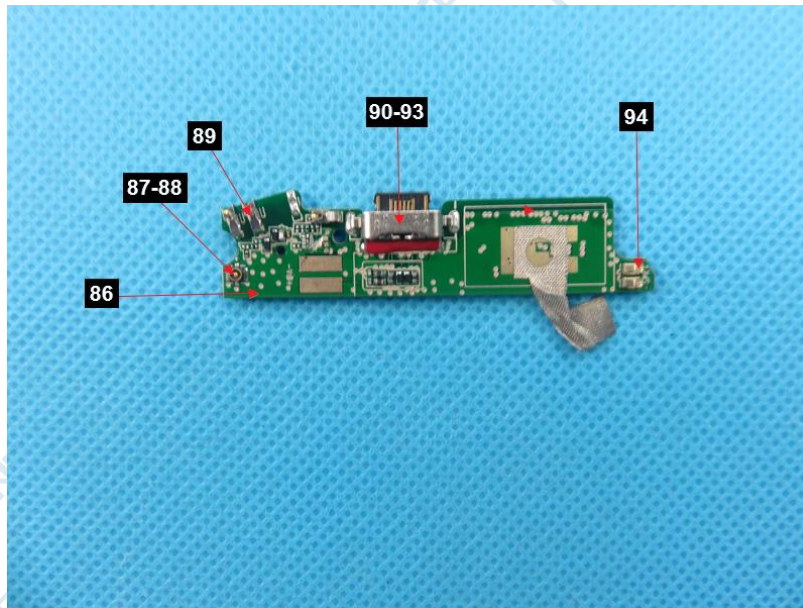


Fig.17

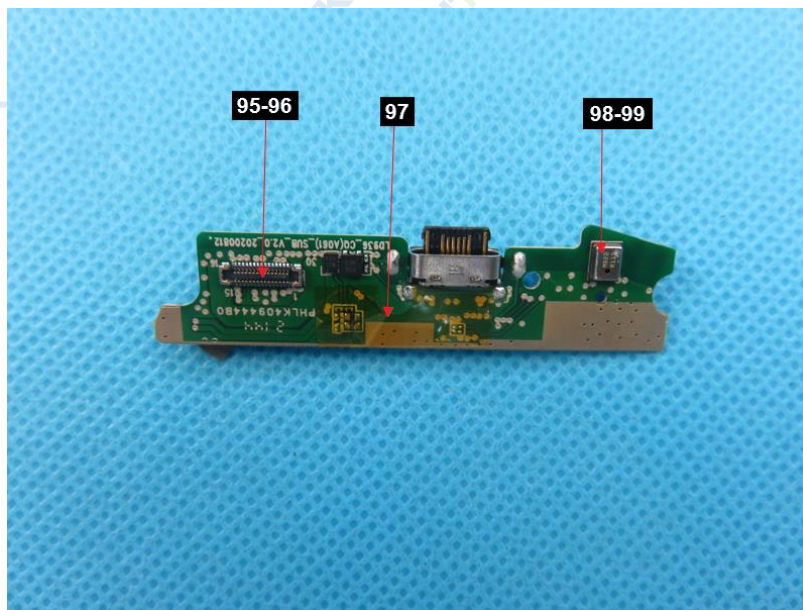


Fig.18

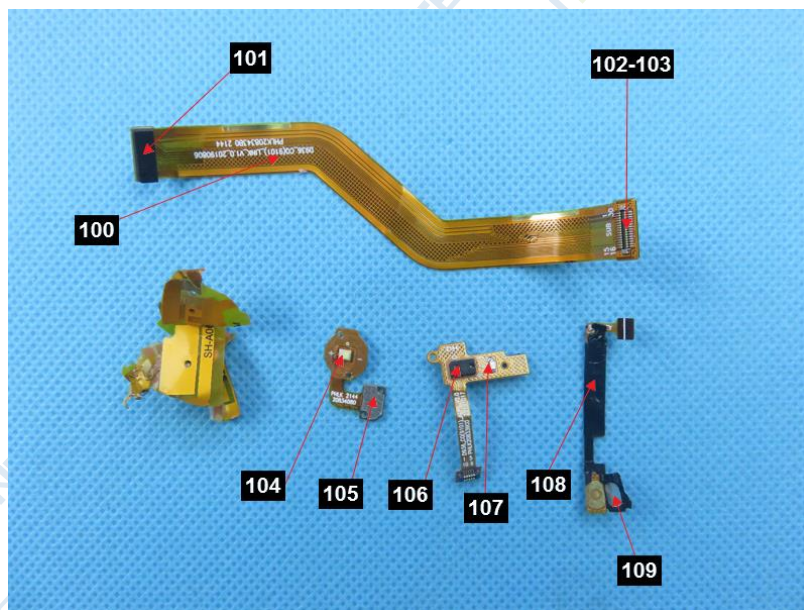


Fig.19

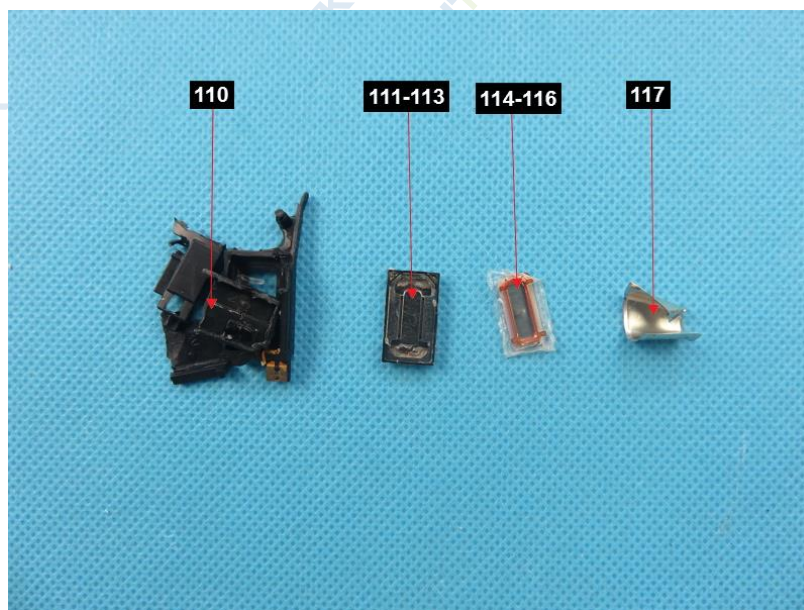


Fig.20

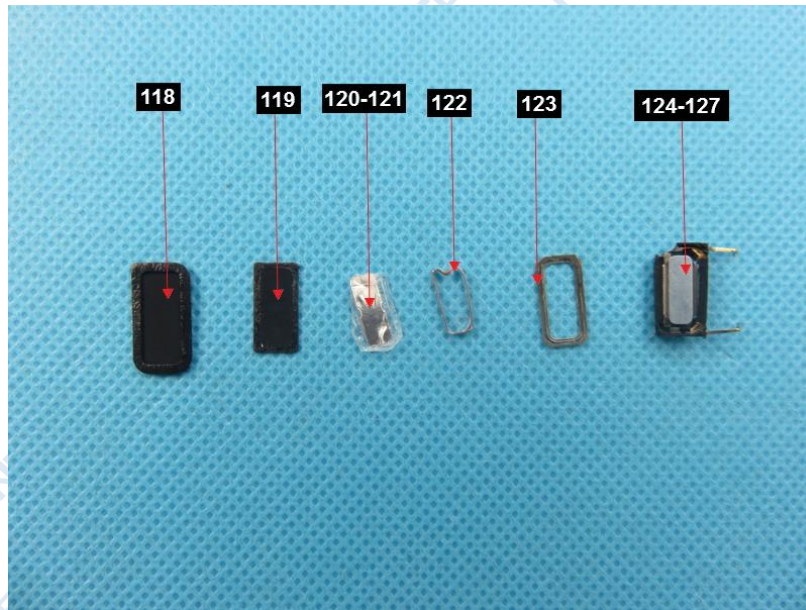


Fig.21

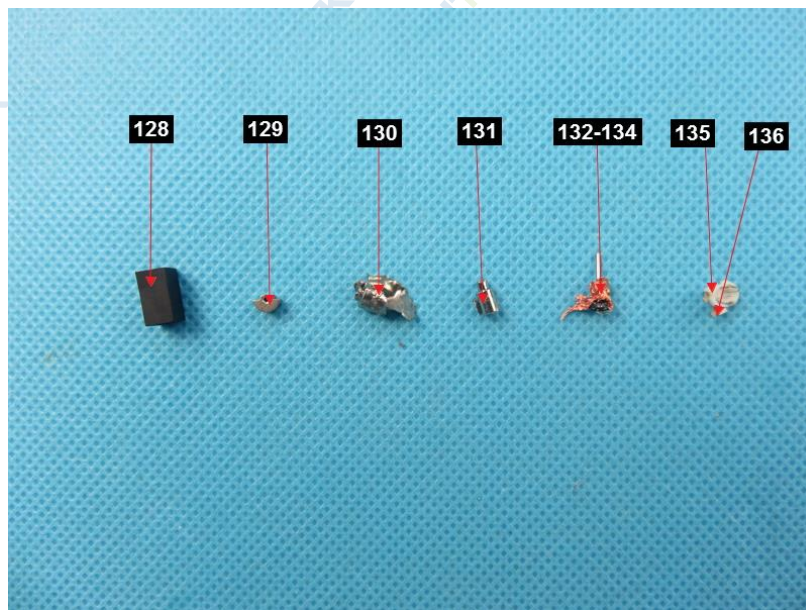


Fig.22

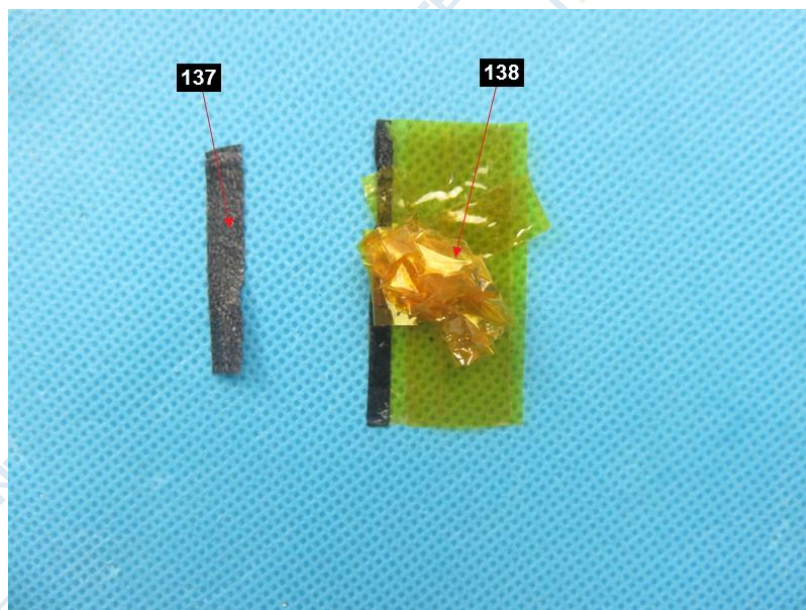


Fig.23

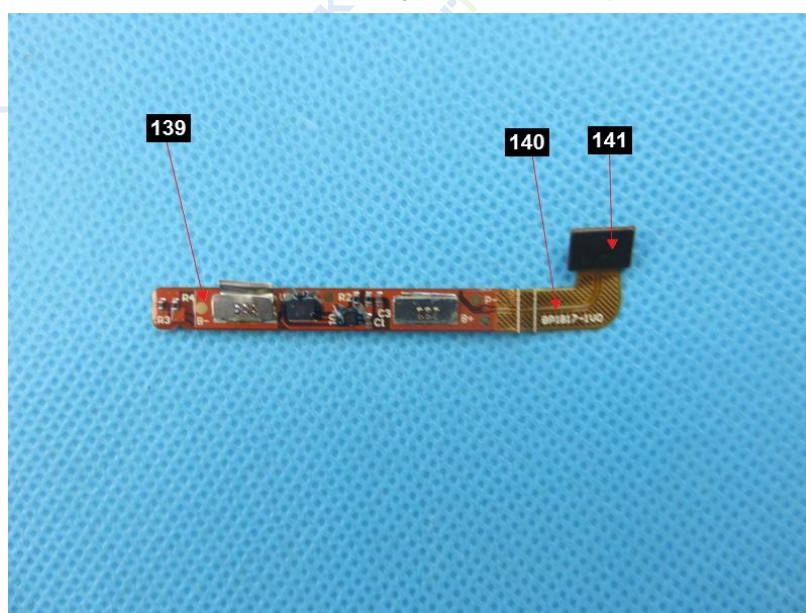


Fig.24

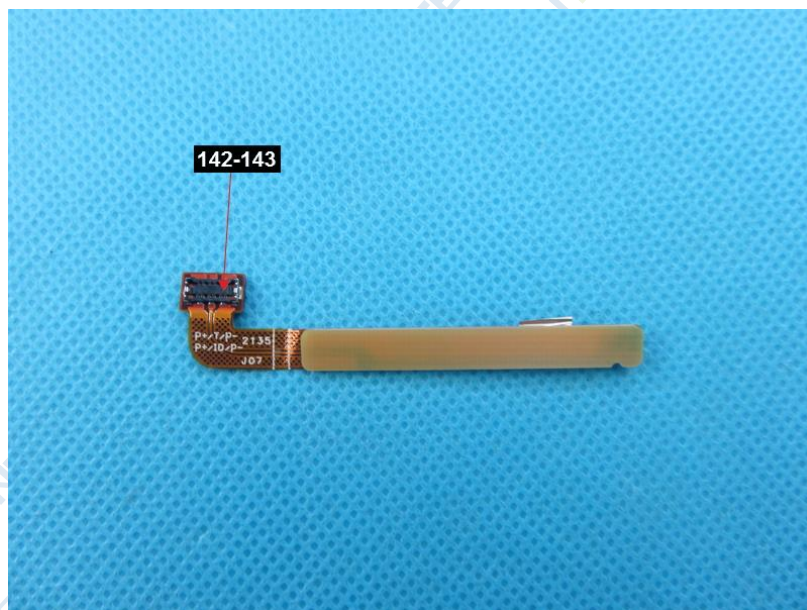


Fig.25



Fig.26

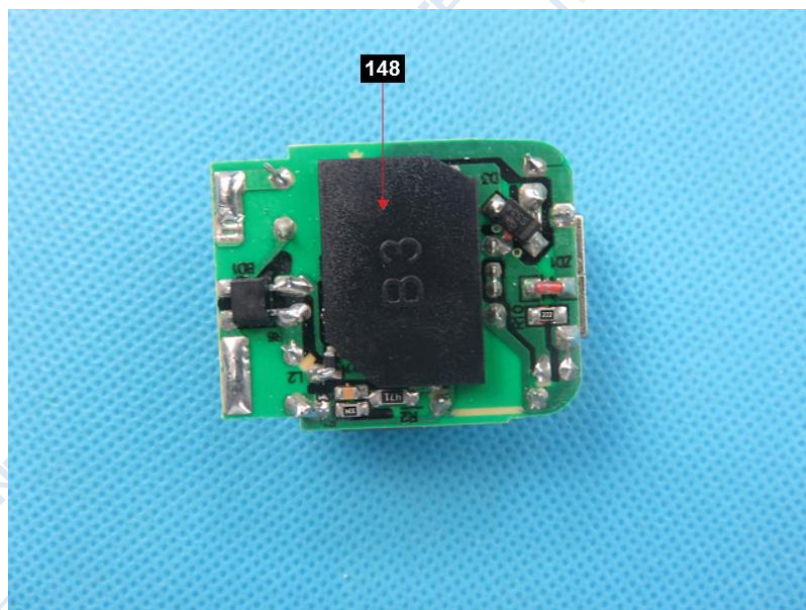


Fig.27

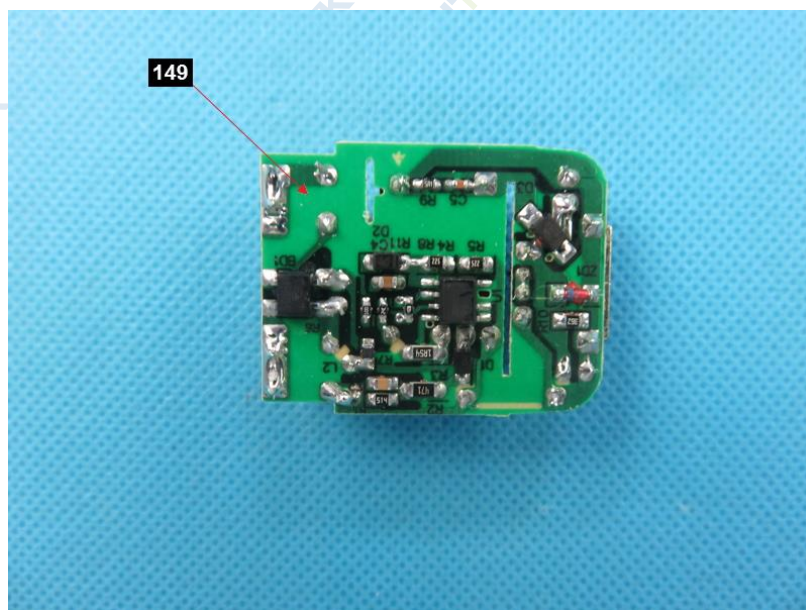


Fig.28

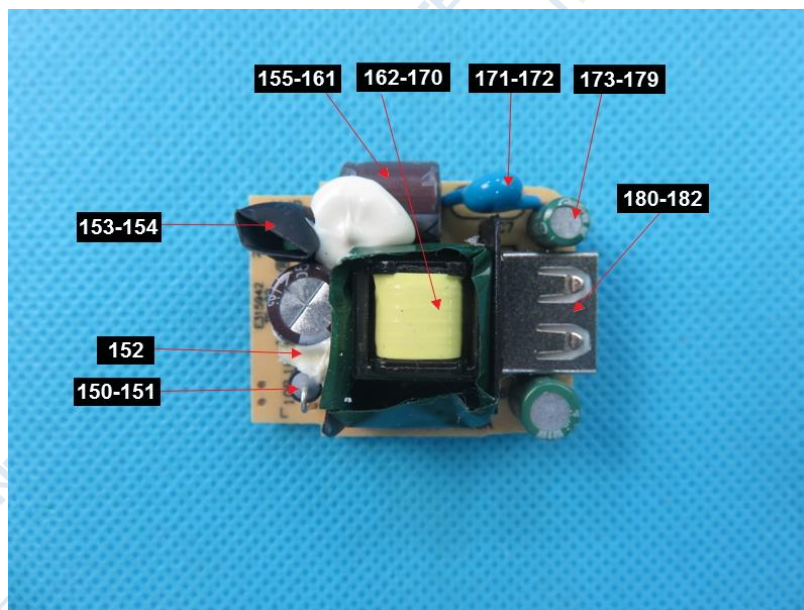


Fig.29

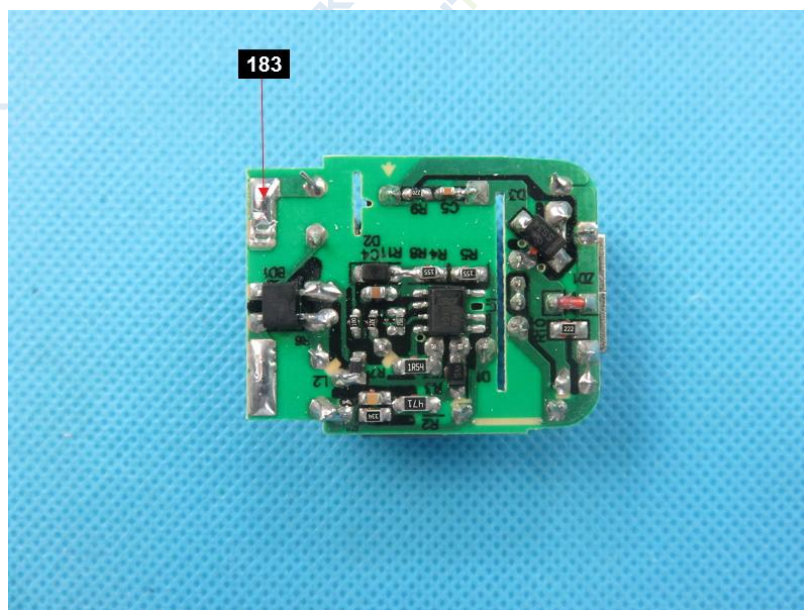


Fig.30

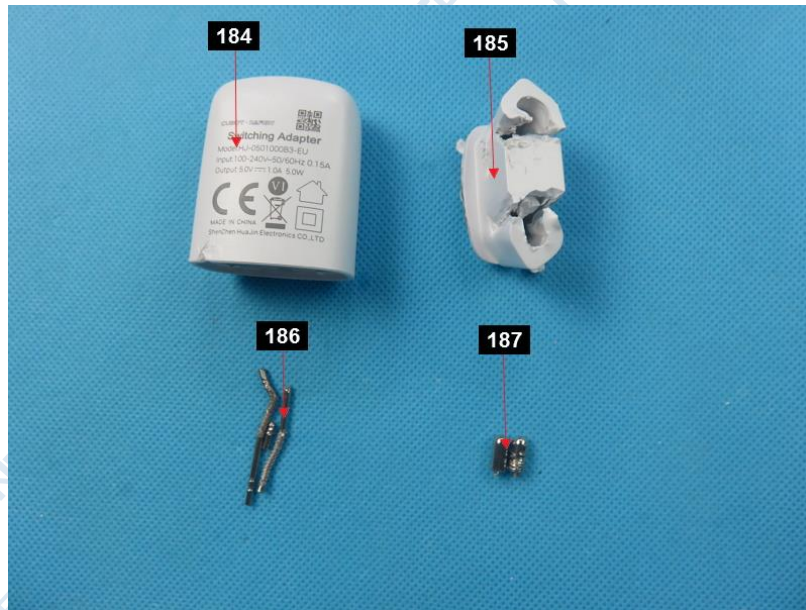


Fig.31

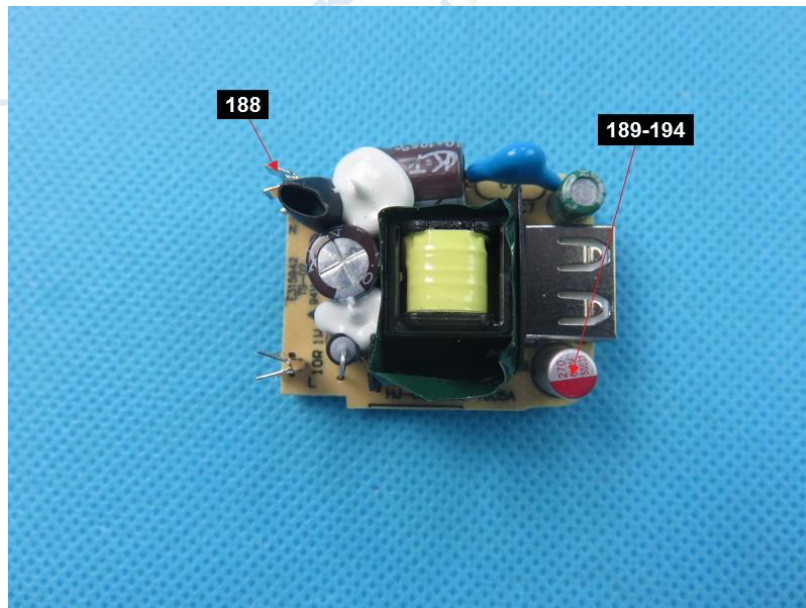


Fig.32

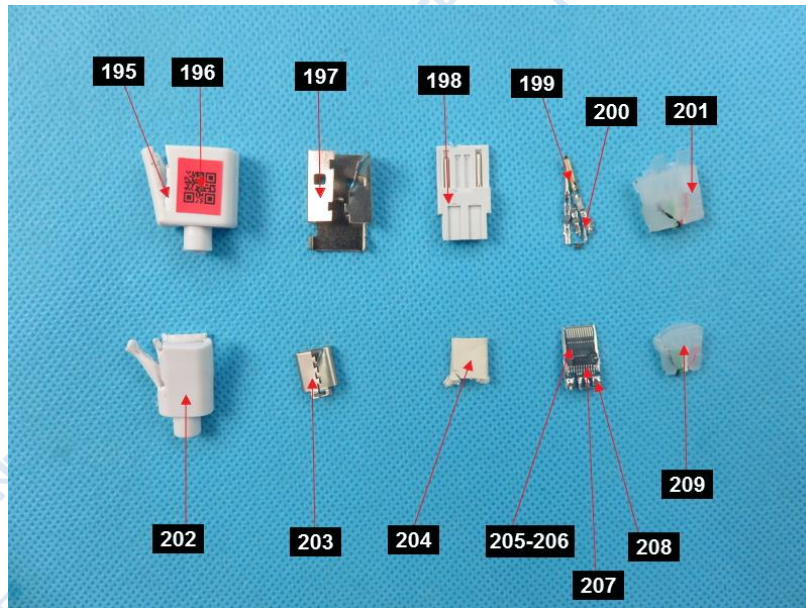


Fig.33

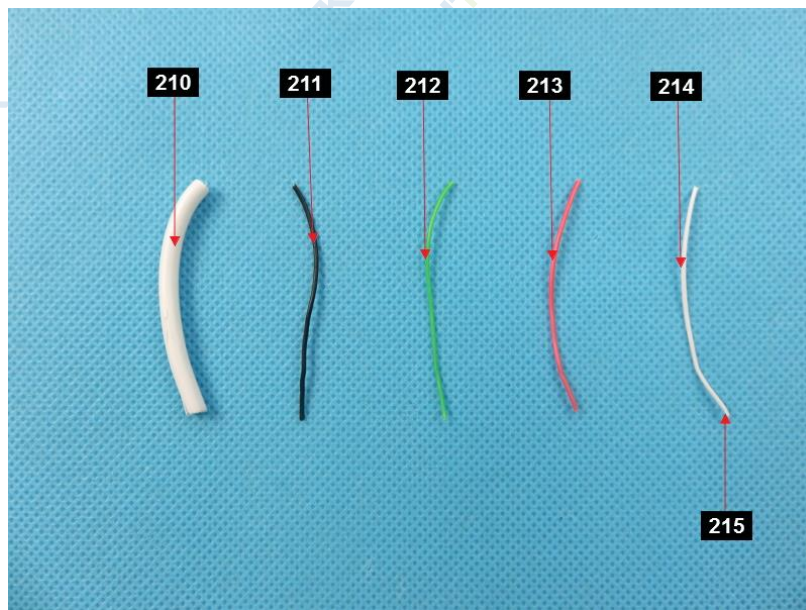


Fig.34



Fig.35



Fig.36

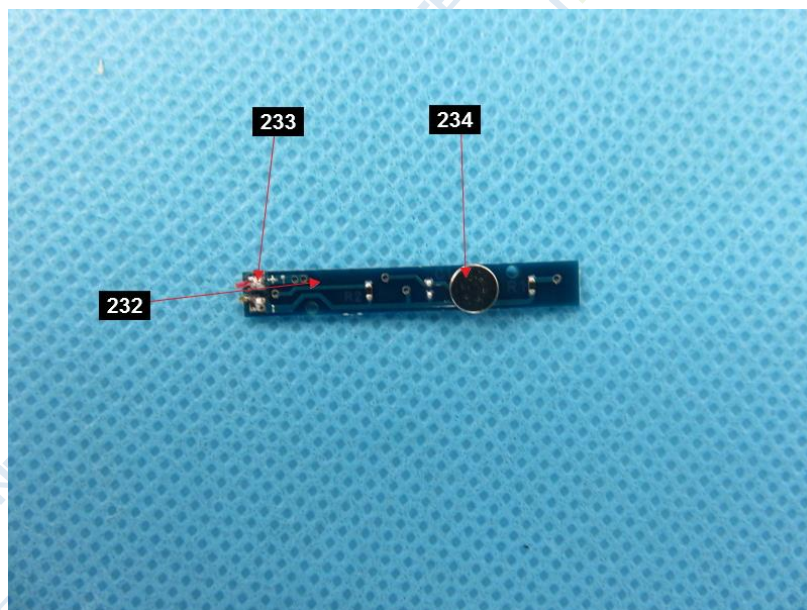


Fig.37

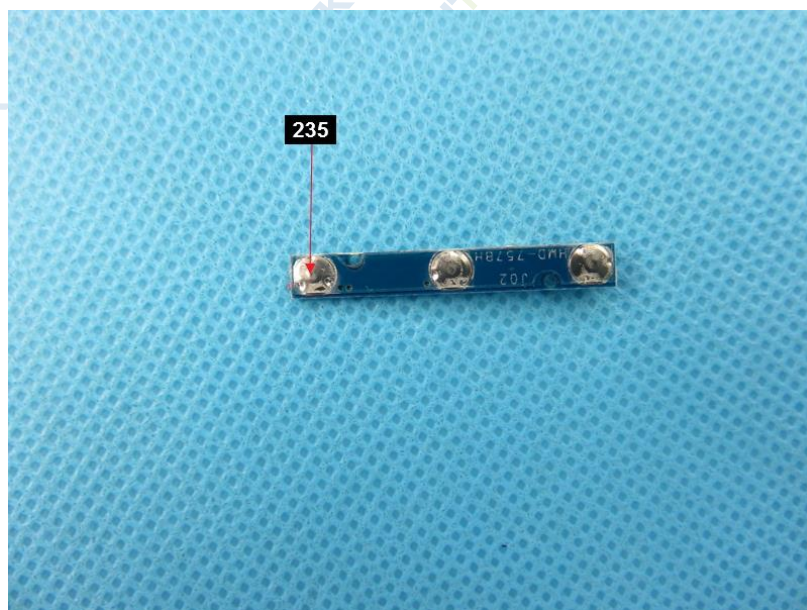


Fig.38

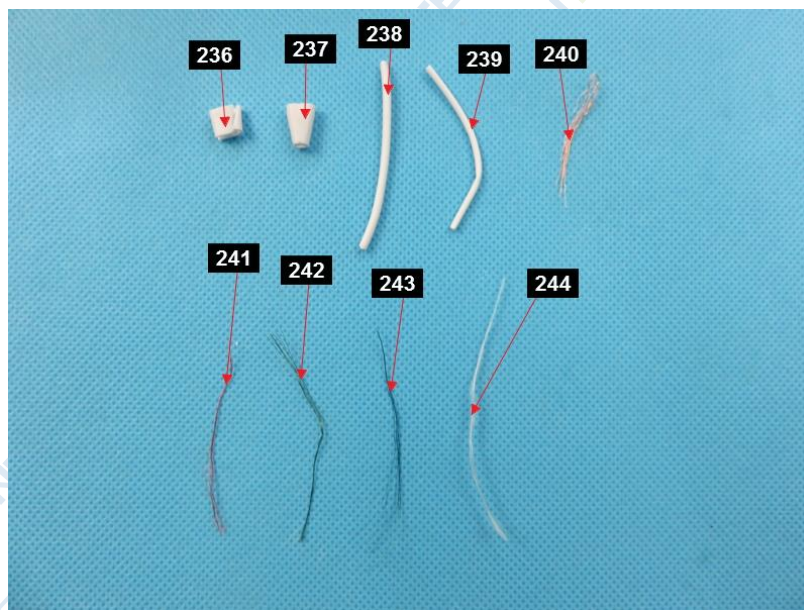


Fig.39

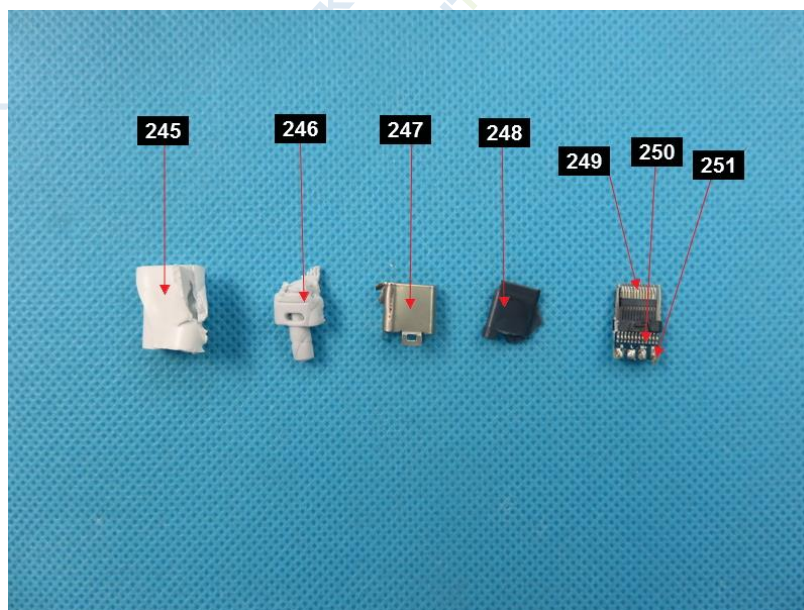


Fig.40



Fig.41

****End of Report****

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