

CheckCode:885386 Report No.:C202213016256E

Applicant: Lumi United Technology Co., Ltd

Address: Room 801-804, Building 1, Chongwen Park, Nanshan iPark, No.3370, Liuxian

Avenue, Fuguang Community, Taoyuan Residential District, Nanshan District,

Shenzhen, China

The following sample information was submitted and identified by/on the behalf of the client

Name: Smart Pet Feeder C1

Specifications: PETC1-M01

Sample State: Normal

Date of Receipt: Jun.23, 2022 Test Period: Jun.23, 2022 – Aug.23, 2022

Jul.15, 2022 Aug.17, 2022

Test Request: Two hundred and twenty-four (224) SVHC screening is performed according to

Regulation (EC) No 1907/2006 concerning the REACH.

**Test Result:** Please refer to following page(s).

**Summary:** 

According to the specified scope and evaluation screening, the test results of SVHC are > 0.1% (w/w) in the submitted sample.

See B8, B10, B11.

See annex 2: obligations under REACH

Edited by Livary Qill xia Reviewed by Huang Yingkun Approved by theng xiacigung



Seal of:

**GUANGZHOU GRG METROLOGY & TEST CO., LTD.** 

Issue date:Aug.23,2022

This test report is responsible for the tested samples only. Without permission of the test center this test report is not permitted to be duplicated in extracts. The test report is invalid without the specialized stamp of GUANGZHOU GRG METROLOGY & TEST CO., LTD. The test report is invalid if altered. Objections to the test report must be submitted to GUANGZHOU GRG METROLOGY & TEST CO., LTD. within 15 days.

## **GUANGZHOU GRG METROLOGY & TEST CO., LTD.**



CheckCode:885386 Report No.:C202213016256E

## Material list

Material list:	
No.	Sample Description
1	White plastic shell
2	White adhesive paper sheet with black printing (On No.1)
3	Translucent plastic shell (On No.1)
4	White plastic shell (On No.3)
5	Silvery metal screw (On No.4)
6	White plastic part (On No.4)
7	White rubber part (On No.6)
8	White plastic part (On No.6)
9	Silvery metal screw ( On No.6 )
10	White rubber part (On No.6)
11	White plastic cover (On No.11)
12	White plastic shell (On No.11)
13	Silvery metal spring (In No.12)
14	White plastic shell (In No.11)
15	Silvery metal screw (On No.14)
16	White plastic shell (On No.11)
17	White plastic part (In No.3)
18	Silvery metal shell (On No.17)
19	Dk-grey plastic part with white printing (On No.1)
20	Black plastic part with white printing (On No.19)
21	White plastic shell (In No.1)
22	Silvery metal screw (On No.21)
§ 23	White plastic sheet (On No.21)
24	Silvery metal screw (On No.21)
25	Green "PCB" (On No.19)



No.	Sample Description
26	Black surfaced metal screw (On No.25)
27	Silvery & golden metal pin (In No.72)
28	Beige plastic shell (On No.25)
29	Silvery metal pin (On No.28)
30	Silvery metal sheet (On No.28)
31	Lt-brown body (C21)(On No.25)
32	Black body (R32) (On No.25)
33	Black body (U6) (On No.25)
34	Brown body (C18) (On No.25)
35	Silvery metal solder (On No.25)
36	White plastic part (On No.25)
37	Beige "LED" (On No.36)
38	Silvery metal pin (On No.37)
39	Black body (D1) (On No.25)
40	Black body with white printing (R37) (On No.25)
41	Black body (K4) (On No.25)
42	Brown body (C29) (On No.25)
43	Black body (D2) (On No.25)
44	Black body (U4) (5 feet) (On No.25)
45	Lt-brown body (C25)(On No.25)
46	Brown body (C12) (On No.25)
47	Black body (U2) (On No.25)
48	Black body (U3) (On No.25)
49	Silvery metal shell (On No.25)
50	Black body (On No.39)
51	Silvery metal sheet (In No.49)



No.	Sample Description
52	Silvery metal pin
53	Silvery metal ring (In No.49)
54	Black plastic part
55	Silvery metal ring (In No.49)
56	Silvery metal shell
57	Blue "PCB" (In No.49)
58	Grey body (On No.57)
59	Black body (On No.57)
60	Silvery metal shell with black printing (On No.25)
61	Black plastic sheet (On No.60)
62	Black rubber part (In No.60)
63	Silvery metal terminal (In No.60)
64	Silvery metal pin (On No.63)
65	Silvery-grey metal foil (In No.60)
66	Beige paper sheet with liquid (In No.60)
67	Grey metal foil (In No.60)
68	Silvery metal shell (On No.25)
69	Golden metal button (On No.68)
70	Silvery metal sheet (In No.68)
71	White plastic part
72	Black plastic part (In No.68)
73	Silvery & golden metal sheet (In No.72)
74	Black "PCB" (On No.25)
75	Golden metal pin with solder
76	White body with white printing (On No.74)
77	Brown body (On No.74)



No.	Sample Description				
78	Black body (On No.74)				
79	Grey body (On No.74)				
80	Silvery body (On No.74)				
81	Brown body (On No.74)				
82	Black body (On No.74)				
83	Silvery metal solder (On No.74)				
84	White plastic shell (On No.1)				
85	Black adhesive rubber sheet (On No.84)				
86	Silvery metal screw (In No.84)				
87	White adhesive plastic sheet with black printing (On No.84)				
88	White plastic cover (On No.84)				
89	Translucent adhesive plastic sheet with black printing (On No.84)				
90	Black adhesive foam sheet (In No.84)  Translucent adhesive plastic sheet with grey printing (On No.84)				
91					
92	Black glue (On No.84)				
93	White plastic part (On No.25)				
94	Silvery metal terminal (In No.93)				
95	Red plastic jacket with black printing (On No.93)				
96	Orange plastic jacket with black printing (On No.93)				
97	Yellow plastic jacket with black printing (On No.93)				
98	Blue plastic jacket (On No.93)				
99	Grey plastic jacket with black printing (On No.93)				
100	Brown plastic jacket with white printing (On No.93)				
101	Black plastic jacket with white printing (On No.93)				
102	White plastic jacket with black printing (On No.93)				
103	Silvery metal wire (In No.102)				



o.102)
,



No.	Sample Description
130	Silvery metal rod (In No.119)
131	White plastic part
132	Silvery metal shell
133	Silvery metal screw (On No.119)
134	Silvery metal shell (On No.119)
135	Grey core (In No.134)
136	Silvery metal rod (In No.134)
137	Silvery metal silicon steel sheet (On No.136)
138	White plastic sheet (On No.136)
139	Copper-colored enameled wire (On No.136)
140	White plastic part
141	Copper-colored metal wire
142	Black plastic jacket
143	Copper-colored metal part (On No.136)
144	White plastic gear (On No.136)
145	White plastic part (On No.136)
146	Silvery & copper-colored metal sheet (On No.145)
147	Black core (On No.146)
148	White fiber thread
149	Beige plastic cover (On No.134)
150	Silvery metal sheet with solder (On No.149)
151	Silvery metal sheet (On No.150)
152	Red plastic jacket
153	Black plastic shell (In No.84)
154	Silvery metal part (In No.153)
155	Black plastic part (On No.153)
	/- (A) V /-



No.	Sample Description
156	Silvery metal sheet (In No.153)
157	Silvery metal rod (In No.153)
158	Silvery metal sheet (In No.153)
159	Silvery metal solder (On No.158)
160	Silvery metal screw (On No.153)
161	Silvery metal part (In No.84)
162	Silvery metal spring (On No.161)
163	Silvery metal sheet (In No.84)
164	Lt-blue surfaced metal shell (In No.84)
165	Black fiber sheet (On No.164)
166	Green "PCB" (On No.164)
167	Silvery metal solder (On No.166)
168	Black glue (On No.166)
169	Black plastic ring (On No.164)
170	Black plastic sheet (On No.164)
171	Copper-colored enameled wire (On No.170)
172	White rubber jacket
173	Silvery metal magnet (In No.164)
174	Silvery metal sheet (In No.164)
175	Dk-grey core
176	Brown body (C31)



	/	
Testing groups	Testing requirement	Composition
A1	72 Substances of Very High Concern(SVHC) testing	5+9+13+15+18+22+24+26+29+30
A2	72 Substances of Very High Concern(SVHC) testing	35+38+49+51+53+55+60+63+64+65
A3	72 Substances of Very High Concern(SVHC) testing	67+68+69+70+73+83+86+94+103+107
A4	72 Substances of Very High Concern(SVHC) testing	109+110+111+112+113+114+116+117+118+119
A5	72 Substances of Very High Concern(SVHC) testing	121+122+123+124+125+128+129+130+133
A6	72 Substances of Very High Concern(SVHC) testing	134+136+137+143+146+150+151+154
A7	72 Substances of Very High Concern(SVHC) testing	156+157+158+159+160+161+162+163+164
A8	72 Substances of Very High Concern(SVHC) testing	167+173+174+141+132+75+56+52+27
B1	224 Substances of Very High Concern(SVHC) testing	1+3+4+6+8+11+12+14+16+17
B2	224 Substances of Very High Concern(SVHC) testing	19+20+21+23+28+36+61
В3	224 Substances of Very High Concern(SVHC) testing	72+84+87+88+89+91+93+105
В4	224 Substances of Very High Concern(SVHC) testing	106+108+115+120+126+138
B5	224 Substances of Very High Concern(SVHC) testing	144+145+149+153+155+169+170+140+131
B6	224 Substances of Very High Concern(SVHC) testing	7+10+62+95+172+71+54
В7	224 Substances of Very High Concern(SVHC) testing	96+97+98+99+100+101+102+104+152+142
B8	224 Substances of Very High Concern(SVHC) testing	25+31+32+33+34+37+39+40+41+42
В9	224 Substances of Very High Concern(SVHC) testing	43+44+45+46+47+48+57+58+59+74
B10	224 Substances of Very High Concern(SVHC) testing	76+77+78+79+80+81+82+166+50
B11	224 Substances of Very High Concern(SVHC) testing	50+66+85+90+92+127+135
B12	224 Substances of Very High Concern(SVHC) testing	139+147+165+168+171+148
B13	224 Substances of Very High Concern(SVHC) testing	175+176



CheckCode:885386 Report No.:C202213016256E

## Test Result(s):

Test Method: In-house method, GC-MS, GC-ECD/NCI-GC/MS, HPLC and UPLC-PDA-MS quantification of relevant SVHC (substances of very high concern) in material samples; ICP-OES-screening, AAS-screening after decomposition for determination of relevant SVHC.

Substance name	CAS No.	Reporting		Resu	lt (%)	)
Substance name	CAS NO.	Limit (%)	A1	A2	А3	A4
Lead*	7439-92-1	0.005	0.008	0.021	0.044	0.017
Other tested SVHC			N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	Reporting Result (%				(%)	
Substance name	CAS No.	Limit (%)	A5	A6	A7	A8 0.042	
Lead*	7439-92-1	0.005	N.D.	0.006	0.028	0.042	
Other tested SVHC	<del></del> /57/		N.D.	N.D.	N.D.	N.D.	

Substance name	CAS No.	Reporting		Resu	It (%)	
Substance name	CAS NO.	Reporting Limit (%)	B1	B2	В3	B4
All tested SVHC			N.D.	N.D.	N.D.	N.D.

Substance name	CAS No.	Reporting		Result (%)			
Substance name	CAS NO.	Limit (%)	B5	В6	В7	B8	
Lead*	7439-92-1	0.005	N.D.	N.D.	N.D.	2.599	
N,N-dimethylformamide	68-12-2	0.030	N.D.	N.D.	N.D.	0.072	
Decamethylcyclopentasiloxane (D5)	541-02-6	0.030	N.D.	0.036	N.D.	N.D.	
Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.030	N.D.	0.093	N.D.	N.D.	
Other tested SVHC			N.D.	N.D.	N.D.	N.D.	



Substance reme	CAS No.	Reporting	Result (%)			
Substance name	CAS NO.	Limit (%)	В9	B10	B11	B12
Lead*	7439-92-1	0.005	N.D.	4.633	N.D.	N.D.
Dodecamethylcyclohexasiloxane (D6)	540-97-6	0.030	N.D.	N.D.	0.043	N.D.
Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)		0.030	N.D.	N.D.	1.351	N.D.
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)		0.030	N.D.	N.D.	0.431	0.055
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)	<del>(</del>	0.030	N.D.	N.D.	N.D.	0.070
Other tested SVHC			N.D.	N.D.	N.D.	N.D.





CheckCode:885386 Report No.:C202213016256E

Substance name	CAS No.	Reporting	Result (%)
Substance name	CAS NO.	Limit (%)	B13
All tested SVHC	(£)		N.D.

### Remark:

- The table above only shows detected substances, and substances that below Reporting Limit are not reported. Please refer to Annex 1 for the full list of tested SVHC.
- 2) \*The substances are tested in term of its respective elements (e.g. As, Pb, Cr(VI), B).
- 3) §The substance is proposed for the identification as target compound only where it contains Michler's ketone(CAS No.:90-94-8) or Michler's base(CAS No.:101-61-1) ≥0.1%(w/w).
- 4) Anthracene are tested by Polycyclic and heterocyclic Aromatic Hydrocarbons.
- 5) \*, \*The analysis of these substances is conducted for metal components.
- 6) "N.D." = Not Detected (Below Reporting Limit).
- 7) Results shown are of the minimum weight of mixed samples.
- 8) As the specimen 57, 61, 62, 66, 168 were insufficient, the test result(s) was /were based on sample resubmitted by 2022-07-15.
- 9) The performed tests on selected parts of submitted sample(s).

### Annex 1 - Full list of tested SVHC:

No.	Substance name	CAS No.	Reporting Limit (%)
1	4,4'- Diaminodiphenylmethane (MDA)	101-77-9	0.030
2	5-tert-butyl-2,4,6-trinitro-m-xylene (Musk xylene)	81-15-2	0.030
3	Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins)	85535-84-8	0.030
4	Anthracene	120-12-7	0.030
5	Benzyl butyl phthalate (BBP)	85-68-7	0.030
6	Bis (2-ethylhexyl)phthalate (DEHP)	117-81-7	0.030
7	Bis(tributyltin) oxide (TBTO)	56-35-9	0.030
8	Cobalt dichloride*	7646-79-9	0.005
9	Diarsenic pentaoxide*	1303-28-2	0.005

## **GUANGZHOU GRG METROLOGY & TEST CO., LTD.**



No.	Substance name	CAS No.	Reporting Limit (%)
10	Diarsenic trioxide*	1327-53-3	0.005
11	Dibutyl phthalate (DBP)	84-74-2	0.030
12	Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified(α-HBCDD, β-HBCDD, γ-HBCDD)	25637-99-4 3194-55-6 (134237-51-7, 134237-50-6, 134237-52-8)	0.030
13	Lead hydrogen arsenate*	7784-40-9	0.005
14	Sodium dichromate*	7789-12-0, 10588-01-9	0.005
15	Triethyl arsenate*	15606-95-8	0.005
16	2,4-dinitrotoluene	121-14-2	0.030
17	Acrylamide	79-06-1	0.030
18	Anthracene oil	90640-80-5	0.030
19	Anthracene oil, anthracene paste	90640-81-6	0.030
20	Anthracene oil, anthracene paste, anthracene fraction	91995-15-2	0.030
21	Anthracene oil, anthracene paste, distn. lights	91995-17-4	0.030
22	Anthracene oil, anthracene-low	90640-82-7	0.030
23	Diisobutyl phthalate	84-69-5	0.030
24	Lead chromate*	7758-97-6	0.010
25	Lead chromate molybdate sulphate red (C.I. Pigment Red 104) *	12656-85-8	0.010
26	Lead sulfochromate yellow (C.I. Pigment Yellow 34) *	1344-37-2	0.010
27	Pitch, coal tar, high-temp.	65996-93-2	0.030
28	Tris(2-chloroethyl) phosphate	115-96-8	0.030
29	Ammonium dichromate*	7789-09-5	0.010



No.	Substance name	CAS No.	Reporting Limit (%)
30	Boric acid*	10043-35-3,	0.010
30	Boric acid	11113-50-1	0.010
		12179-04-3,	
31	Disodium tetraborate, anhydrous*	1303-96-4,	0.010
		1330-43-4	
32	Potassium chromate*	7789-00-6	0.010
33	Potassium dichromate*	7778-50-9	0.010
34	Sodium chromate*	7775-11-3	0.010
35	Tetraboron disodium heptaoxide, hydrate*	12267-73-1	0.010
36	Trichloroethylene	79-01-6	0.030
37	2-ethoxyethanol	110-80-5	0.030
38	2-methoxyethanol	109-86-4	0.030
	Chromic acid, Oligomers of chromic acid and dichromic acid, Dichromic acid*	7738-94-5,	
39			0.010
		13530-68-2	
40	Chromium trioxide*	1333-82-0	0.010
41	Cobalt(II) carbonate*	513-79-1	0.010
42	Cobalt(II) diacetate*	71-48-7	0.010
43	Cobalt(II) dinitrate*	10141-05-6	0.010
44	Cobalt(II) sulphate*	10124-43-3	0.010
45	1,2,3-trichloropropane	96-18-4	0.030
46	1,2-Benzenedicarboxylic acid,	71888-89-6	0.030
40	di-C6-8-branched alkyl esters, C7-rich	7 1000-03-0	0.030
47	1,2-Benzenedicarboxylic acid,	68515-42-4	0.030
.,	di-C7-11-branched and linear alkyl esters		0.000
48	1-Methyl-2-pyrrolidone (NMP)	872-50-4	0.030
49	2-ethoxyethyl acetate	111-15-9	0.030
50	Hydrazine	302-01-2,	0.030
	Tiyuraziile	7803-57-8	3.000



No.	Substance name	CAS No.	Reporting Limit
NO.	Substance name	CAS NO.	(%)
51	Strontium chromate*	7789-06-2	0.010
52	1,2-dichloroethane	107-06-2	0.030
53	2,2'-dichloro-4,4'-methylenedianiline	101-14-4	0.030
54	2-Methoxyaniline, o-Anisidine	90-04-0	0.030
55	4-(1,1,3,3-tetramethylbutyl)phenol	140-66-9	0.030
56	Aluminosilicate Refractory Ceramic Fibres*		0.010
57	Arsenic acid*	7778-39-4	0.010
58	Bis(2-methoxyethyl) ether	111-96-6	0.030
59	Bis(2-methoxyethyl) phthalate	117-82-8	0.030
60	Calcium arsenate*	7778-44-1	0.010
61	Dichromium tris(chromate) *	24613-89-6	0.010
62	Formaldehyde, oligomeric reaction products with aniline	25214-70-4	0.030
63	Lead diazide, Lead azide*	13424-46-9	0.010
64	Lead dipicrate*	6477-64-1	0.010
65	Lead styphnate*	15245-44-0	0.010
66	N,N-dimethylacetamide	127-19-5	0.030
67	Pentazinc chromate octahydroxide*	49663-84-5	0.010
68	Phenolphthalein	77-09-8	0.030
69	Potassium hydroxyoctaoxodizincatedichromate*	11103-86-9	0.010
70	Trilead diarsenate*	3687-31-8	0.010
71	Zirconia Aluminosilicate Refractory Ceramic Fibres*		0.010
72	[4-[[4-anilino-1-naphthyl][4-(dimethylamino)p henyl]methylene]cyclohexa-2,5-dien-1-yliden e] dimethylammonium chloride (C.I. Basic Blue 26)§	2580-56-5	0.030





Substance name	CAS No.	Reporting Limit (%)
[4,4'-bis(dimethylamino) nzhydrylidene]cyclohexa-2,5-dien-1-yliden dimethylammonium chloride (C.I. Basic blet 3)§	548-62-9	0.030
2-bis(2-methoxyethoxy)ethane EGDME,triglyme)	112-49-2	0.030
2-dimethoxyethane,ethylene glycol nethyl ether (EGDME)	110-71-4	0.030
4'-bis(dimethylamino)benzophenone ichler's ketone)	90-94-8	0.030
1'-bis(dimethylamino)-4"-(methylamino)trity	561-41-1	0.030
boron trioxide*	1303-86-2	0.010
rmamide	75-12-7	0.030
ad(II) bis(methanesulfonate) *	17570-76-2	0.010
N,N',N'-tetramethyl-4,4'-methylenedianiline ichler's base)	101-61-1	0.030
3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane 4,6-trione (TGIC)	2451-62-9	0.030
a-Bis[4-(dimethylamino)phenyl]-4 nenylamino)naphthalene-1-methanol (C.I. olvent Blue 4)§	6786-83-0	0.030
3,5-tris[(2S and 2)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H H,5H)-trione (β-TGIC)	59653-74-6	0.030
nthalato(2-)]dioxotrilead*	69011-06-9	0.010
2-Benzenedicarboxylic acid, dipentyl ester, anched and linear	84777-06-0	0.030
2-diethoxyethane	629-14-1	0.030
promopropane (n-propyl bromide)	106-94-5	0.030
ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazol ne	143860-04-2	0.030
	[4,4'-bis(dimethylamino) nzhydrylidene]cyclohexa-2,5-dien-1-yliden dimethylammonium chloride (C.I. Basic olet 3)§ 2-bis(2-methoxyethoxy)ethane EGDME,triglyme) 2-dimethoxyethane,ethylene glycol methyl ether (EGDME) 4'-bis(dimethylamino)benzophenone ichler's ketone) 4'-bis(dimethylamino)-4"-(methylamino)trity lcohol§ coron trioxide*  mamide ad(II) bis(methanesulfonate) * N,N',N'-tetramethyl-4,4'-methylenedianiline ichler's base) 3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane 4,6-trione (TGIC) α-Bis[4-(dimethylamino)phenyl]-4 nenylamino)naphthalene-1-methanol (C.I. olivent Blue 4)§ 3,5-tris[(2S and α)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H H,5H)-trione (β-TGIC) nthalato(2-)]dioxotrilead* 2-Benzenedicarboxylic acid, dipentyl ester, anched and linear 2-diethoxyethane oromopropane (n-propyl bromide) ethyl-2-methyl-2-(3-methylbutyl)-1,3-oxazol	[4,4'-bis(dimethylamino) nzhydrylidene]cyclohexa-2,5-dien-1-yliden dimethylammonium chloride (C.I. Basic olet 3)§ 2-bis(2-methoxyethoxy)ethane EGDME,triglyme) 2-dimethoxyethane,ethylene glycol nethyl ether (EGDME) 4'-bis(dimethylamino)benzophenone ichler's ketone) 4'-bis(dimethylamino)-4"-(methylamino)trity lcohol§ coron trioxide* 1303-86-2 rmamide 75-12-7 ad(II) bis(methanesulfonate) * 17570-76-2 N,N',N'-tetramethyl-4,4'-methylenedianiline ichler's base) 3,5-Tris(oxiran-2-ylmethyl)-1,3,5-triazinane 4,6-trione (TGIC) α-Bis[4-(dimethylamino)phenyl]-4 nenylamino)naphthalene-1-methanol (C.I. olivent Blue 4)§ 3,5-tris[(2S and 2)-2,3-epoxypropyl]-1,3,5-triazine-2,4,6-(1H 1,5H)-trione (β-TGIC) nthalato(2-)]dioxotrilead* 2-Benzenedicarboxylic acid, dipentyl ester, anched and linear 2-diethoxyethane 629-14-1 coromopropane (n-propyl bromide) 2-thyl-2-methyl-2-(3-methylbutyl)-1,3-oxazol



No.	Substance name	CAS No.	Reporting Limit (%)
90	4-(1,1,3,3-tetramethylbutyl)phenol, ethoxylated (covering well-defined substances and UVCB substances, polymers and homologues)	 / <sub>4</sub>	0.030
91	4,4'-methylenedi-o-toluidine	838-88-0	0.030
92	4,4'-oxydianiline and its salts	101-80-4	0.030
93	4-aminoazobenzene	60-09-3	0.030
94	4-methyl-m-phenylenediamine (toluene-2,4-diamine)	95-80-7	0.030
95	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)		0.030
96	6-methoxy-m-toluidine (p-cresidine)	120-71-8	0.030
97	Acetic acid, lead salt, basic*	51404-69-4	0.010
98	Biphenyl-4-ylamine	92-67-1	0.030
99	Bis(pentabromophenyl) ether (decabromodiphenyl ether) (DecaBDE)	1163-19-5	0.030
100	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	0.030
101	Diazene-1,2-dicarboxamide (C,C'-azodi(formamide)) (ADCA)	123-77-3	0.030
102	Dibutyltin dichloride (DBTC)	683-18-1	0.030
103	Diethyl sulphate	64-67-5	0.030
104	Diisopentyl phthalate	605-50-5	0.030
105	Dimethyl sulphate	77-78-1	0.030
106	Dinoseb (6-sec-butyl-2,4-dinitrophenol)	88-85-7	0.030
107	Dioxobis(stearato)trilead*	12578-12-0	0.010
	1. (2. 2. )		



No.	Substance name	CAS No.	Reporting Limit (%)	
108	Fatty acids, C16-18, lead salts*	91031-62-8	0.010	
109	Furan	110-00-9	0.030	
110	Henicosafluoroundecanoic acid	2058-94-8	0.030	
111	Heptacosafluorotetradecanoic acid	376-06-7	0.030	
112	Hexahydromethylphathalic anhydride, Hexahydro-4-methylphathalic anhydride, Hexahydro-1-methylphathalic anhydride, Hexahydro-3-methylphathalic anhydride	25550-51-0, 19438-60-9, 48122-14-1, 57110-29-9	0.030	
113	Lead bis(tetrafluoroborate) *	13814-96-5	0.010	
114	Lead cyanamidate*	20837-86-9	0.010	
115	Lead dinitrate*	10099-74-8	0.010	
116	Lead monoxide (lead oxide) *	1317-36-8	0.010	
117	Lead oxide sulfate*	12036-76-9	0.010	
118	Orange lead (lead tetroxide) *	1314-41-6	0.010	
119	Lead titanium trioxide*	12060-00-3	0.010	
120	Lead titanium zirconium oxide*	12626-81-2	0.010	
121	Methoxyacetic acid	625-45-6	0.030	
122	Methyloxirane (Propylene oxide)	75-56-9	0.030	
123	N,N-dimethylformamide	68-12-2	0.030	
124	N-methylacetamide	79-16-3	0.030	
125	N-pentyl-isopentylphthalate	776297-69-9	0.030	
126	o-aminoazotoluene	97-56-3	0.030	
127	o-toluidine	95-53-4	0.030	
128	Pentacosafluorotridecanoic acid	72629-94-8	0.030	
129	Pentalead tetraoxide sulphate*	12065-90-6	0.010	
130	Pyrochlore, antimony lead yellow*	8012-00-8	0.010	
131	Silicic acid, barium salt, lead-doped*	68784-75-8	0.010	
	/_(%) /			



No.	Substance name	CAS No.	Reporting Limit (%)	
132	Silicic acid, lead salt*	11120-22-2	0.010	
133	Sulfurous acid, lead salt, dibasic*	62229-08-7	0.010	
134	Tetraethyllead*	78-00-2	0.010	
135	Tetralead trioxide sulphate*	12202-17-4	0.010	
136	Tricosafluorododecanoic acid	307-55-1	0.030	
137	Trilead bis(carbonate) dihydroxide*	1319-46-6	0.010	
138	Trilead dioxide phosphonate*	12141-20-7	0.010	
139	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)  Ammonium pentadecafluorooctanoate		0.030	
140	(APFO)	3825-26-1	0.030	
141	Cadmium oxide*	1306-19-0	0.010	
142	Cadmium*	7440-43-9	0.010	
143	Dipentyl phthalate (DPP)	131-18-0	0.030	
144	Pentadecafluorooctanoic acid (PFOA)	335-67-1	0.030	
145	Cadmium sulphide*	1306-23-6	0.010	
146	Dihexyl phthalate	84-75-3	0.030	
147	Disodium 3,3'-[[1,1'-biphenyl]-4,4'-diylbis(azo)]bis(4-am inonaphthalene-1-sulphonate) (C.I. Direct Red 28)	573-58-0	0.030	



		( 8 /		
No.	Substance name	CAS No.	Reporting Limit (%)	
148	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	0.030	
149	Imidazolidine-2-thione (2-imidazoline-2-thiol)	96-45-7	0.030	
150	Lead di(acetate) *	301-04-2	0.010	
151	Trixylyl phosphate	25155-23-1	0.030	
152	1,2-Benzenedicarboxylic acid, dihexyl ester, branched and linear	68515-50-4	0.030	
153	Cadmium chloride*	10108-64-2	0.010	
154	Sodium perborate, perboric acid, sodium salt*	<u> E./.</u>	0.010	
155	Sodium peroxometaborate*	7632-04-4	0.010	
156	2-(2H-benzotriazol-2-yl)-4,6-ditertpentylphen ol (UV-328)	25973-55-1	0.030	
157	2-benzotriazol-2-yl-4,6-di-tert-butylphenol (UV-320)	3846-71-7	0.030	
158	2-ethylhexyl 10-ethyl-4,4-dioctyl-7-oxo-8-oxa-3,5-dithia-4- stannatetradecanoate (DOTE)	15571-58-1	0.030	
159	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]t hio]-4-octyl-7-oxo-8-oxa-3,5-dithia-4-stannat etradecanoate (reaction mass of DOTE and MOTE)	<u></u>	0.030	
160	Cadmium fluoride*	7790-79-6	0.010	
161	Cadmium sulphate*	10124-36-4, 31119-53-6	0.010	



No.	Substance name	CAS No.	Reporting Limit (%)
162	1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters, 1,2-benzenedicarboxylic acid,mixed decyl and hexyl and octyl diesters (with ≥ 0.3% of dihexyl phthalate)	68515-51-5, 68648-93-1	0.030
163	5-sec-butyl-2-(2,4-dimethylcyclohex-3-en-1-y l)-5-methyl-1,3-dioxane [1], 5-sec-butyl-2-(4,6-dimethylcyclohex-3-en-1-y l)-5-methyl-1,3-dioxane [2] [covering any of the individual stereoisomers of [1] and [2] or any combination thereof]	<del></del>	0.030
164	1,3-propanesultone	1120-71-4	0.030
165	2,4-di-tert-butyl-6-(5-chlorobenzotriazol-2-yl) phenol (UV-327)	3864-99-1	0.030
166	2-(2H-benzotriazol-2-yl)-4-(tert-butyl)-6-(sec-butyl)phenol (UV-350)	36437-37-3	0.030
167	Nitrobenzene	98-95-3	0.030
168	Perfluorononan-1-oic-acid and its sodium and ammonium salts	375-95-1, 21049-39-8, 4149-60-4	0.030
169	Benzo[def]chrysene (Benzo[a]pyrene)	50-32-8	0.030
170	4,4'-isopropylidenediphenol (bisphenol A)	80-05-7	0.030
171	4-heptylphenol, branched and linear		0.030
172	Nonadecafluorodecanoic acid (PFDA) and its sodium and ammonium salts	3108-42-7, 335-76-2, 3830-45-3	0.030
173	P-(1,1-dimethylpropyl)phenol	80-46-6	0.030
174	Perfluorohexane-1-sulfonic acid and its salts (PFHxS)		0.030
175	1,6,7,8,9,14,15,16,17,17,18,18-Dodecachlor opentacyclo[12.2.1.16,9.02,13.05,10]octadec a-7,15-diene ("Dechlorane Plus"™) [covering any of its individual anti- and syn-isomers or any combination thereof]		0.030



No.	Substance name	CAS No.	Reporting Limit
	(4		(%)
176 177	Benz[a]anthracene	56-55-3,	0.030
		1718-53-2 10022-68-1,	
	Cadmium nitrate*	10022-66-1,	0.010
178	Cadmium carbonate *	513-78-0	0.010
179	Cadmium hydroxide*	21041-95-2	0.010
180	Chrysene	218-01-9,	0.030
		1719-03-5	
	Reaction products of		
	1,3,4-thiadiazolidine-2,5-dithione,		
181	formaldehyde and 4-heptylphenol, branched	75	0.030
	and linear (RP-HP) [with ≥0.1% w/w		
	4-heptylphenol, branched and linear] Benzene-1,2,4-tricarboxylic acid 1,2		0.030
182	anhydride (trimellitic anhydride) (TMA)	552-30-7	
183	Dicyclohexyl phthalate (DCHP)	84-61-7	0.030
184	Benzo[ghi]perylene	191-24-2	0.030
185	Decamethylcyclopentasiloxane (D5)	541-02-6	0.030
186	Disodium octaborate*	12008-41-2	0.010
187	Dodecamethylcyclohexasiloxane(D6)	540-97-6	0.030
188	Ethylenediamine	107-15-3	0.030
189	Lead*	7439-92-1	0.005
190	Octamethylcyclotetrasiloxane (D4)	556-67-2	0.030
191	Terphenyl hydrogenated	61788-32-7	0.030
192	2,2-bis(4'-hydroxyphenyl)-4-methylpentane	6807-17-6	0.030
193	Benzo[k]fluoranthene	207-08-9	0.030
194	Fluoranthene	206-44-0	0.030
195	Phenanthrene	85-01-8	0.030
196	Pyrene	129-00-0	0.030



No.	Substance name	CAS No.	Reporting Limit (%)	
197	1,7,7-trimethyl-3-(phenylmethylene)bicyclo[2. 2.1]heptan-2-one	15087-24-8	0.030	
198	Tris(4-nonylphenyl, branched and linear) phosphite (TNPP) with ≥ 0.1% w/w of 4-nonylphenol, branched and linear (4-NP)	 /js	0.030	
199	4-tert-butylphenol	98-54-4	0.030	
200	2-methoxyethyl acetate	110-49-6	0.030	
201	2,3,3,3-tetrafluoro-2-(heptafluoropropoxy)pro pionic acid, its salts and its acyl halides (covering any of their individual isomers and combinations thereof)		0.030	
202	2-benzyl-2-dimethylamino-4'-morpholinobuty rophenone	119313-12-1	0.030	
203	2-methyl-1-(4-methylthiophenyl)-2-morpholin opropan-1-one	71868-10-5	0.030	
204	Diisohexyl phthalate	71850-09-4	0.030	
205	Perfluorobutane sulfonic acid (PFBS) and its salts		0.030	
206	1-vinylimidazole	1072-63-5	0.030	
207	2-methylimidazole	693-98-1	0.030	
208	Dibutylbis(pentane-2,4-dionato-O,O')tin	22673-19-4	0.030	
209	Butyl 4-hydroxybenzoate(Butylparaben)	94-26-8	0.030	
210	Bis(2-(2-methoxyethoxy)ethyl)ether	143-24-8	0.030	
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	<u></u>	0.030	
212	1,4-dioxane	123-91-1	0.030	
213	2,2-bis(bromomethyl)propane-1,3-diol (BMP); 2,2-dimethylpropan-1-ol, tribromo derivative/3-bromo-2,2-bis(bromomethyl)-1-p ropanol (TBNPA); 2,3-dibromo-1-propanol (2,3-DBPA)	3296-90-0, 36483-57-5 1522-92-5, 96-13-9	0.030	



CheckCode:885386 Report No.:C202213016256E

No.	Substance name	CAS No.	Reporting Limit (%)
214	2-(4-tert-butylbenzyl)propionaldehyde and its individual stereoisomers		0.030
215	4,4'-(1-methylpropylidene)bisphenol	77-40-7	0.030
216	Glutaral	111-30-8	0.030
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]		0.030
218	Orthoboric acid, sodium salt*		0.010
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)	<u> </u>	0.030
220	(±)-1,7,7-trimethyl-3-[(4-methylphenyl)methyl ene]bicyclo[2.2.1]heptan-2-one covering any of the individual isomers and/or combinations thereof (4-MBC)	 (\$)	0.030
221	6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol	119-47-1	0.030
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	0.030
223	Tris(2-methoxyethoxy)vinysilane	1067-53-4	0.030
224	N-(hydroxymethyl)acrylamide	924-42-5	0.030

## Annex 2 - REACH obligation:

1. Concerning article(s):

Communication:

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

## **GUANGZHOU GRG METROLOGY & TEST CO., LTD.**



CheckCode:885386 Report No.:C202213016256E

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 in the Candidate List.

### Notification:

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

## 2.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.

## 3. 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 its amendments, 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, in which:

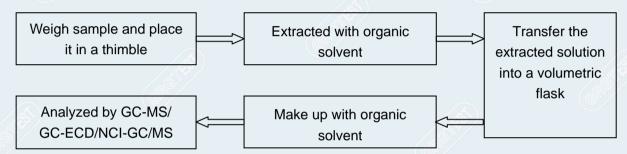
- a substance that is classified as hazardous under the CLP Regulation (EC) No 1272/2008.
- a mixture that is classified as hazardous under the CLP Regulation (EC) No 1272/2008, when it contains a substance with concentration equal to, or greater than the classification limit as set in Regulation (EC) No. 1272/2008; or
- a mixture is not classified as hazardous under the CLP Regulation (EC) No 1272/2008, but contains either:
- (a) a substance posing human health or environmental hazards in an individual concentration of  $\geq$  1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures) or  $\geq$  0.2 % by volume for gaseous mixtures; or



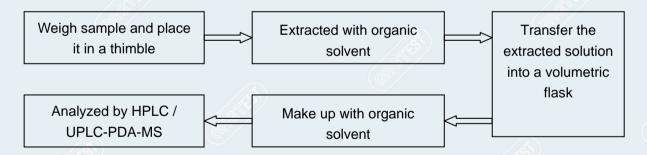
CheckCode:885386 Report No.:C202213016256E

- (b) a substance that is PBT, or vPvB in an individual concentration of ≥ 0.1 % by weight for mixtures that are solid or liquids (i.e., non-gaseous mixtures); or
- (c) a substance on the SVHC candidate list (for reasons other than those listed above), in an individual concentration of  $\geq 0.1$  % by weight for non-gaseous mixtures; or
- (d) a substance for which there are Europe-wide workplace exposure limits.

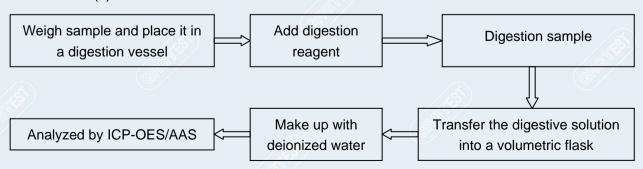
## Test Process (1):



## Test Process (2):



## Test Process (3):



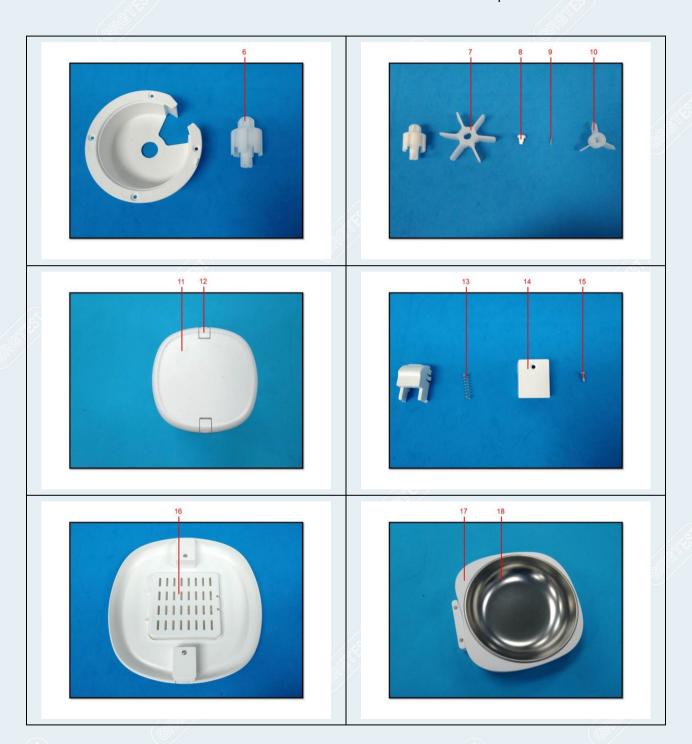
## **GUANGZHOU GRG METROLOGY & TEST CO., LTD.**

Address: No.31 Nanxiang Second Road, Science City, Huangpu District, Guangzhou, China Tel: 4006020999 Fax: +86-020-38698685 Website: http://www.grqtest.com

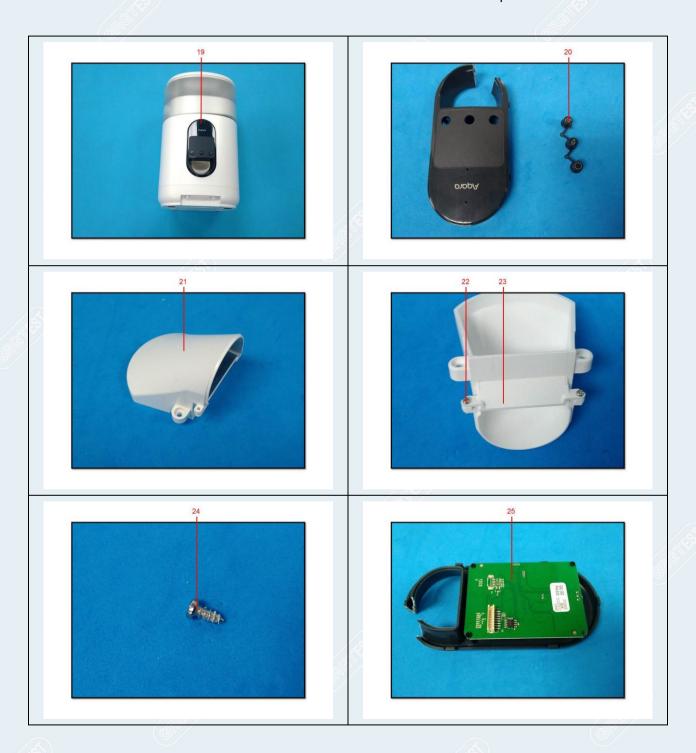




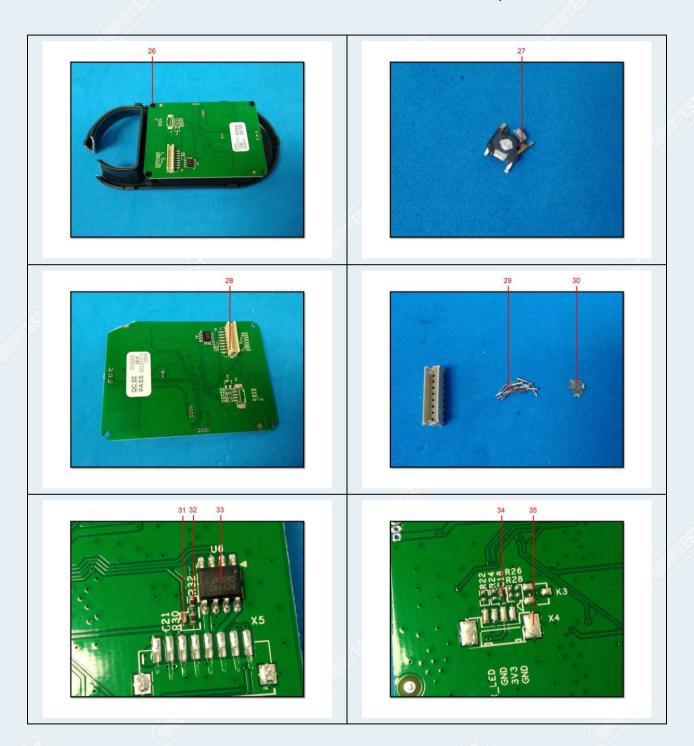




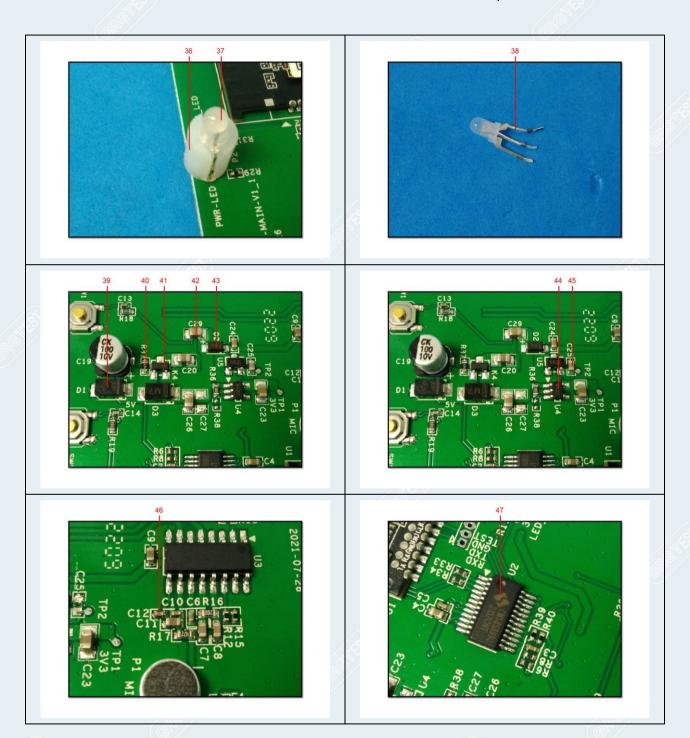




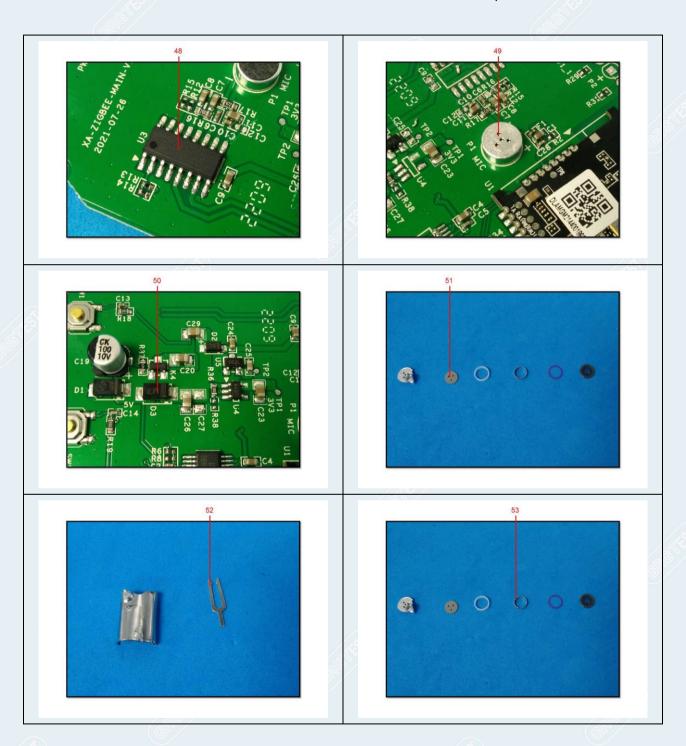




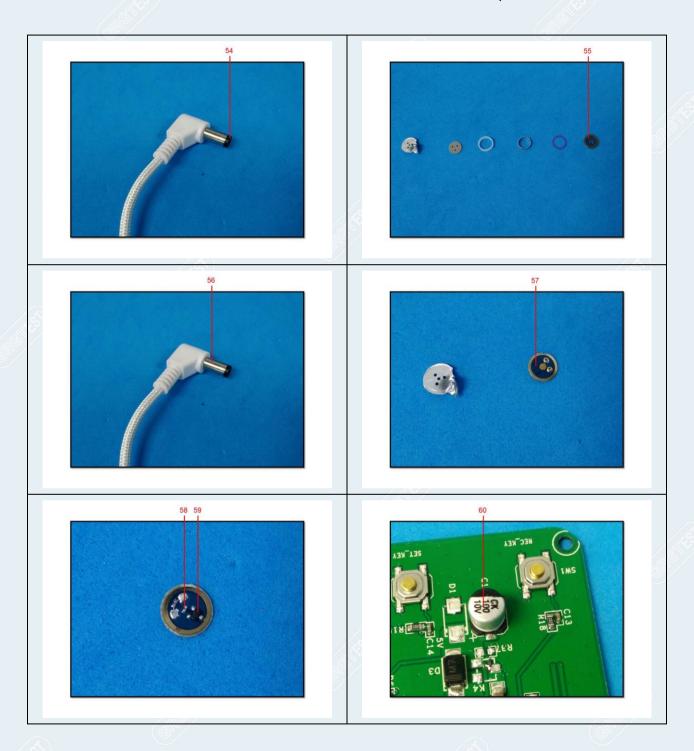








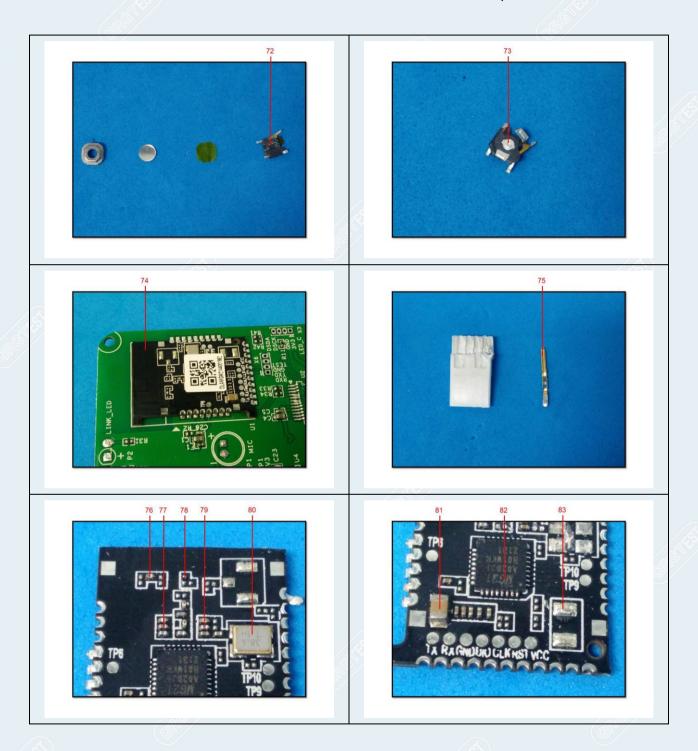








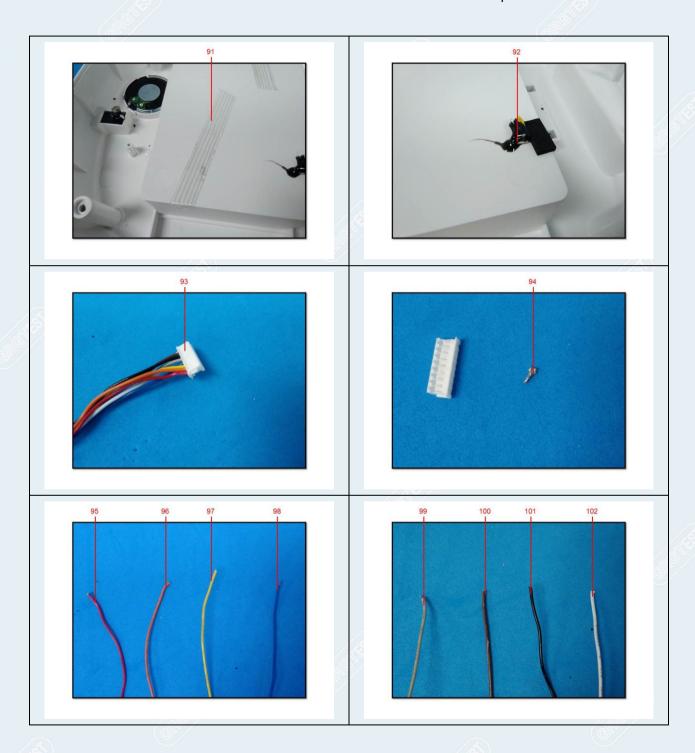




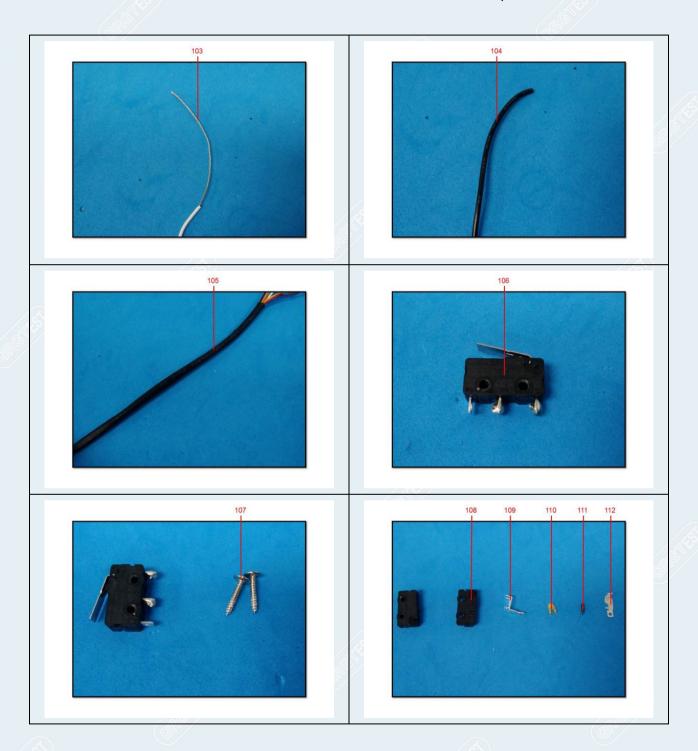




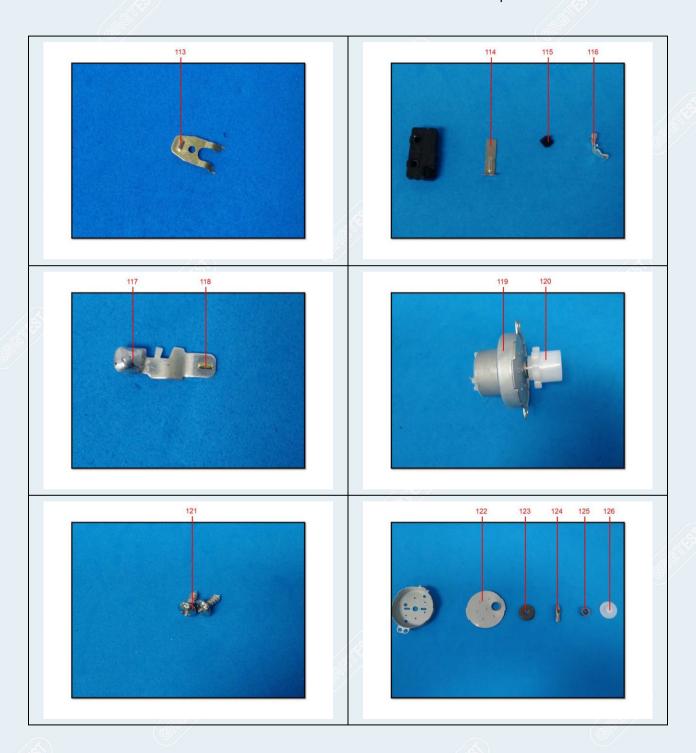




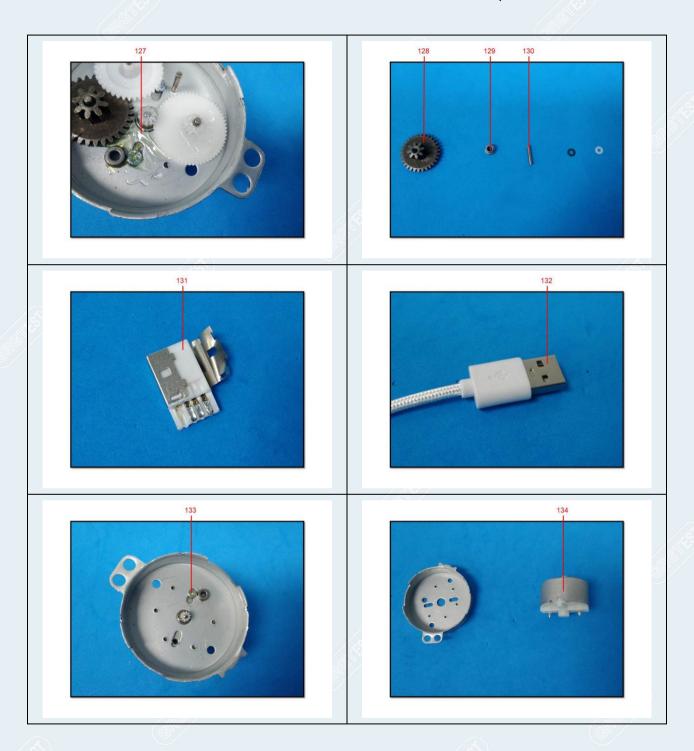




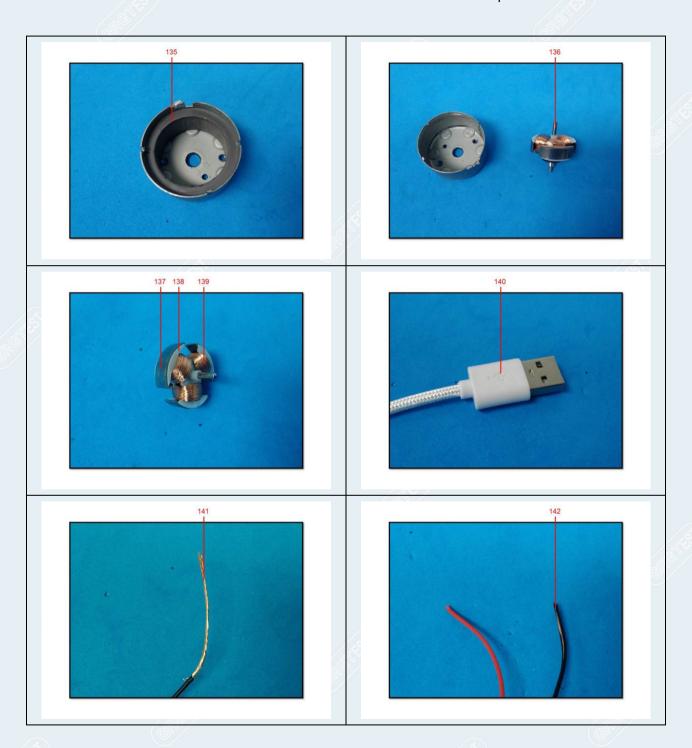




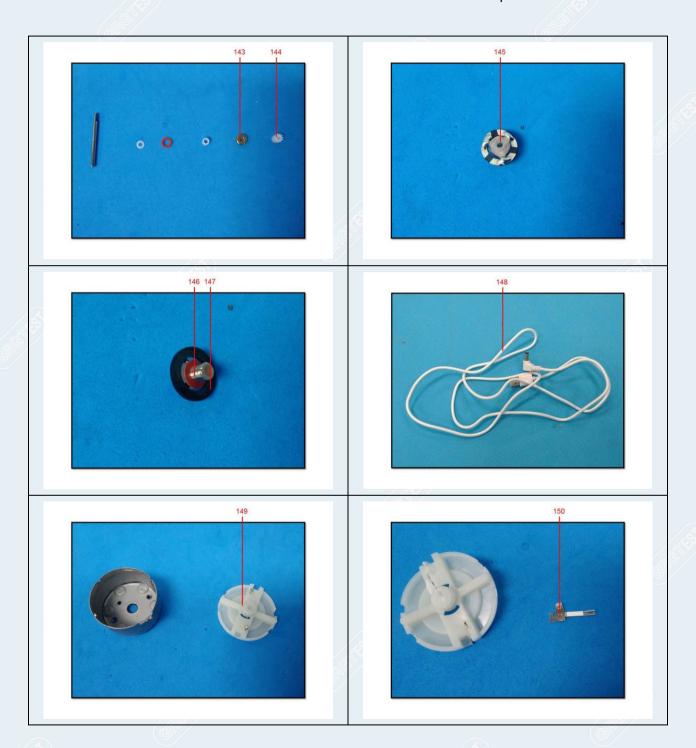




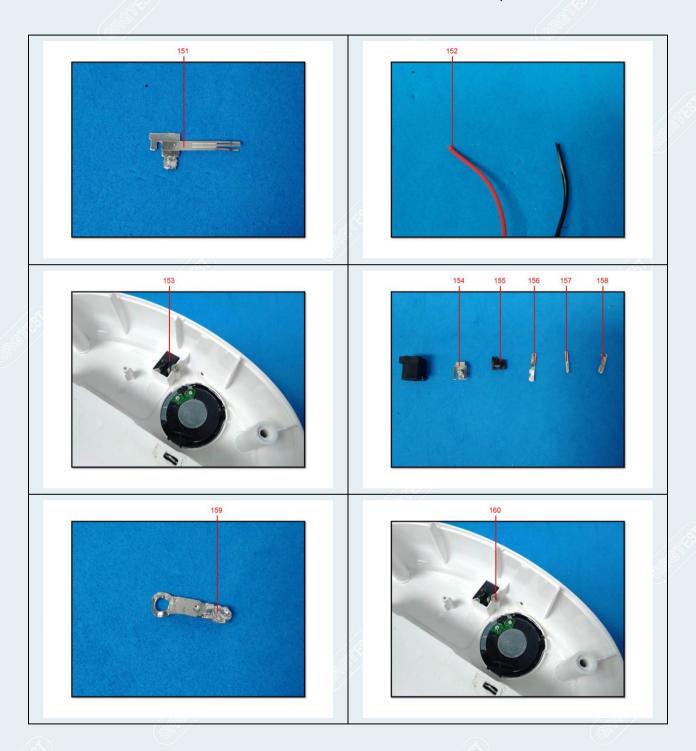








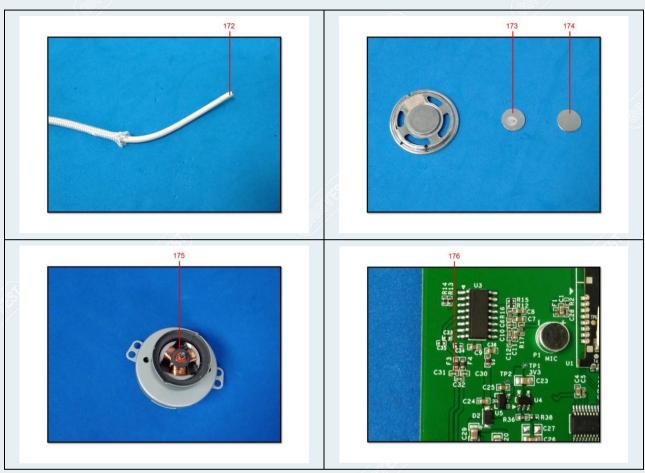












-----End of Report-----