Applicant: SHENZHEN TUGAO INTELLIGENT CO.,LTD

Applicant Address: 8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong, Bao'an District, Shenzhen, China

The following samples were submitted and identified on behalf of the clients as

Sample Name:	Smartphone
Main test/test model:	Note 13 Pro
Reference(additional) model:	Note 13, Note, T1, T1-S1L, Note 11, iHunt S24 Xtreme, HT02, HT03, Note 15, Note 15 Pro, Note 16, Note 16 Pro
Trademark:	HOTWAV, iHunt, BLACK FOX
Manufacturer:	SHENZHEN TUGAO INTELLIGENT CO.,LTD
Manufacturer Address:	8th Floor, Bldg A, Jinggang Science&Technology Park, Fuyong, Bao'an District, Shenzhen, China
Sample Received Date:	Sep 20, 2023
Test Period:	Sep 20, 2023 to Sep 26, 2023
Test Method:	Please refer to next page(s).
Test Result:	Please refer to next page(s).

Signed for and on behalf of
HP-LAB

Tony Tang Manager

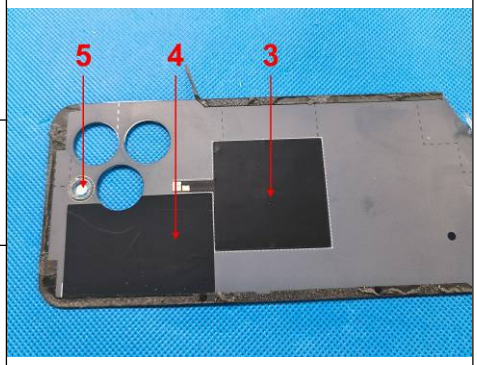
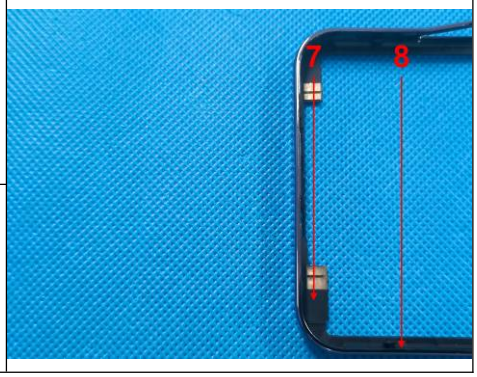
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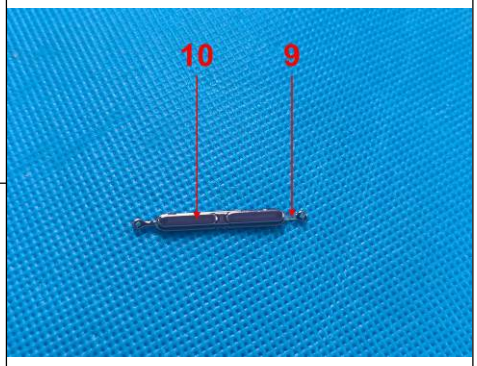
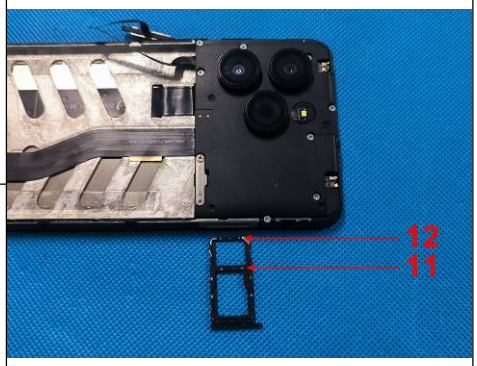
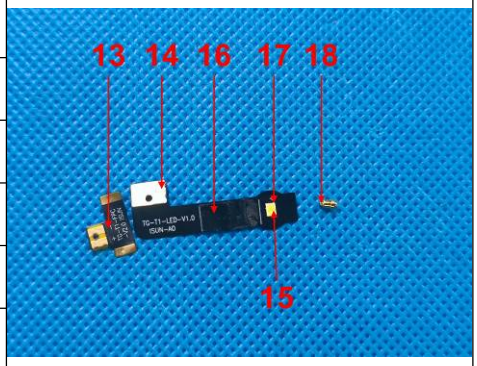
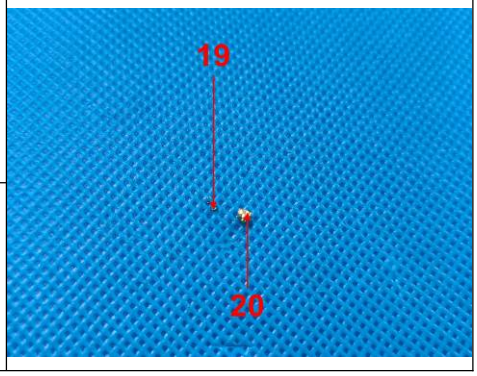
CONCLUSION :

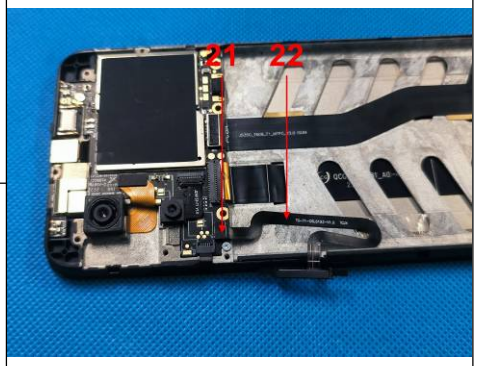
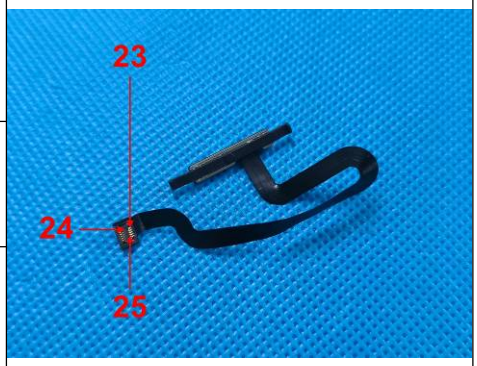
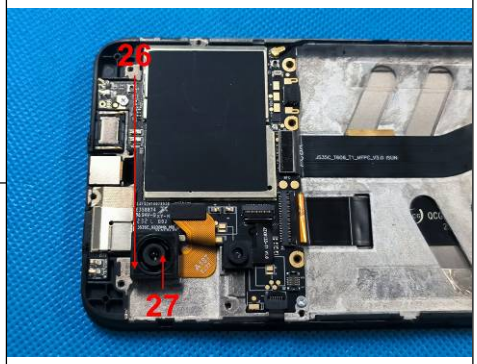
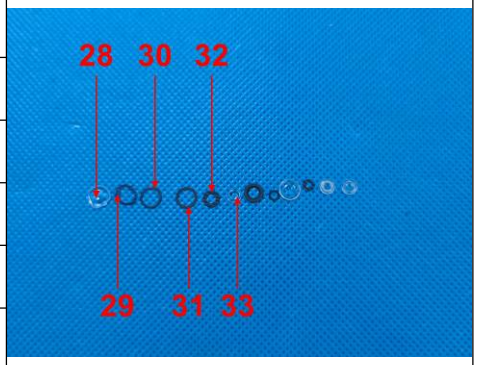
TESTED SAMPLES	TEST ITEM	RESULT
Smartphone	1.RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863 — Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content	**PASS**
	—Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate(DIBP) Content	**PASS**

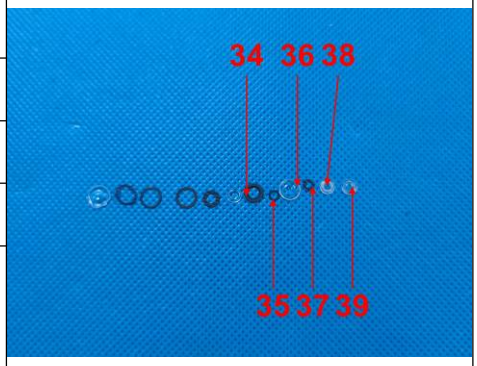
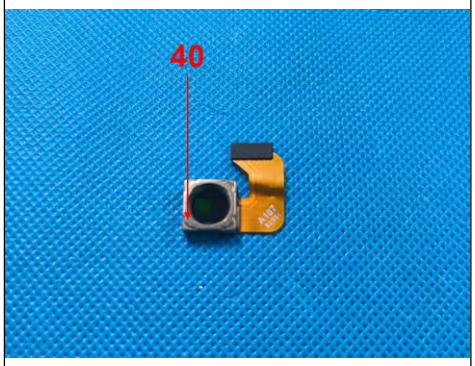
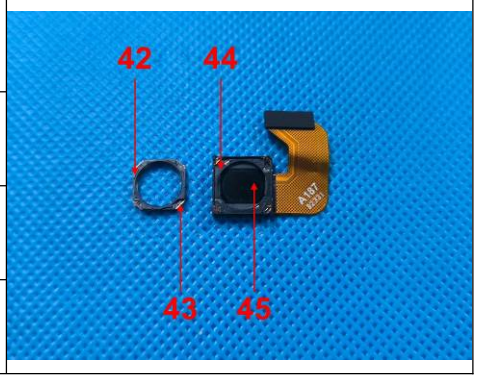
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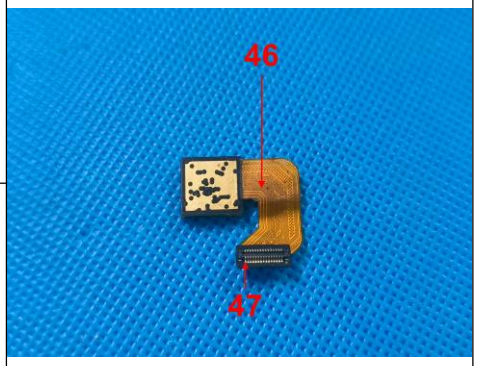
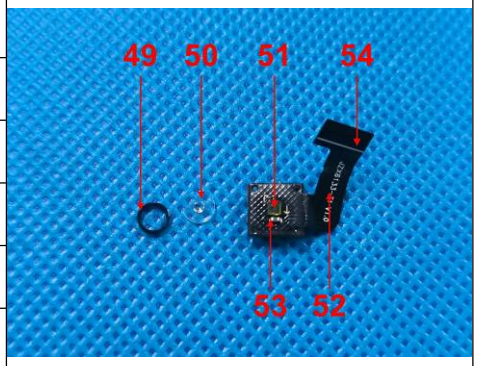
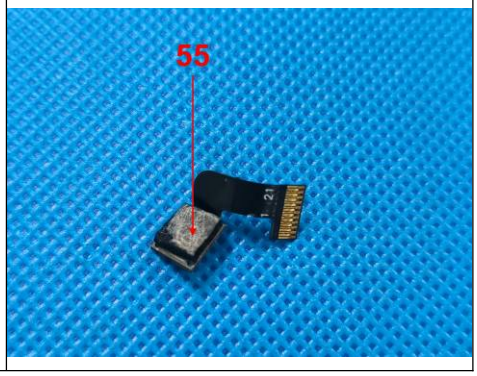
2. Test Item Description And Photo List

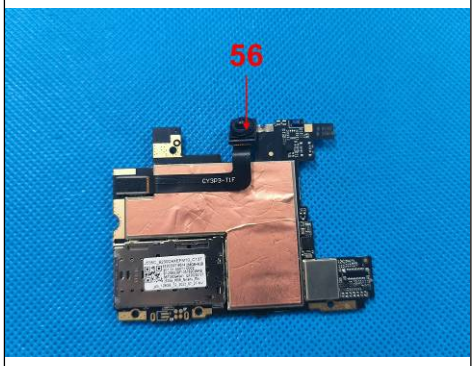
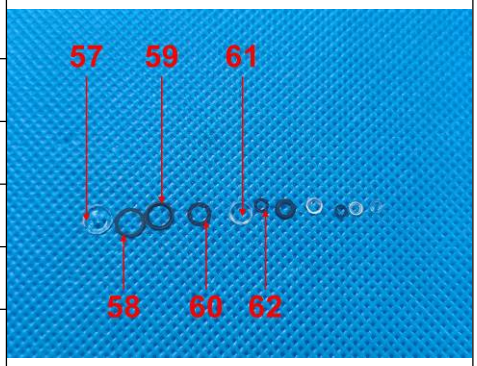
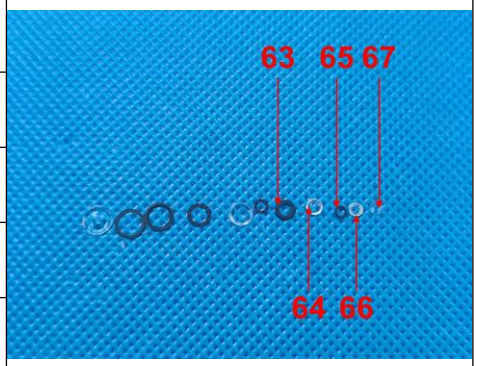
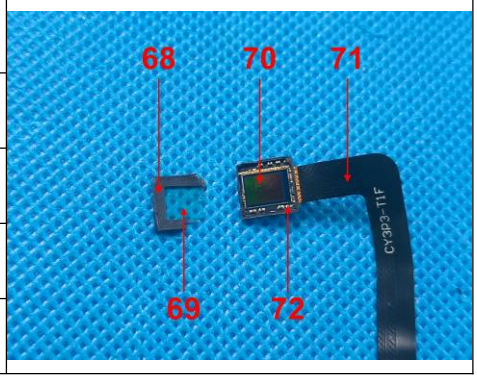
Sample No.	Description	Photograph
001	Transparent glass with purple/white plating	
002	Transparent plastic with dark blue plating	
003	Black FPC	
004	Coppery metal foil with black plating	
005	Transparent plastic with white plating	
006	Black FPC	
007	Black FPC	
008	Black plastic with purple plating	

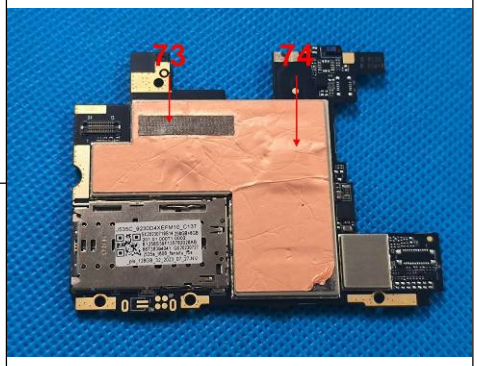
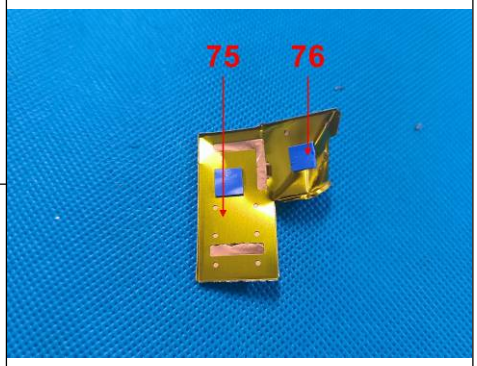
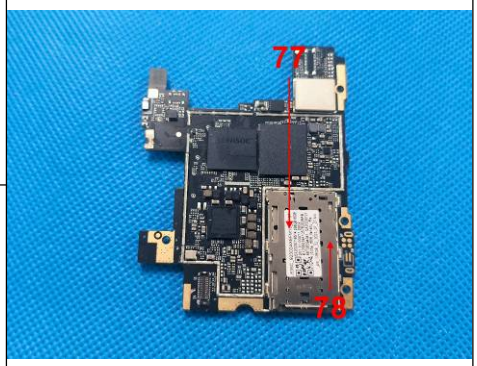
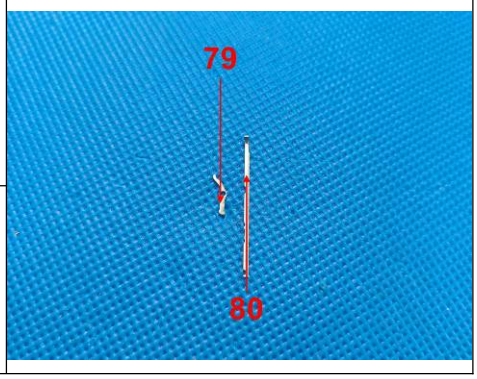
Sample No.	Description	Photograph
009	Transparent soft plastic	
010	Black plastic with purple plating	
011	Black plastic	
012	Silvery metal	
013	Black FPC	
014	Silvery metal	
015	Yellow body	
016	Black FPC	
017	Silvery solder	
018	Golden metal	
019	Silvery metal (spring)	
020	Golden metal	

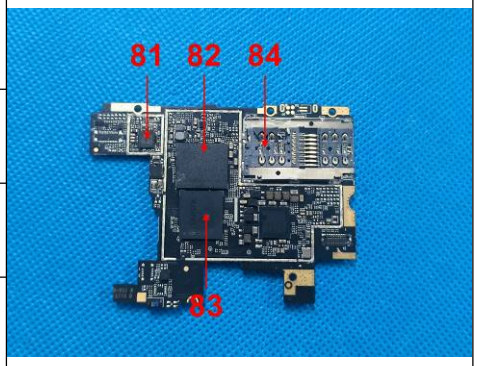
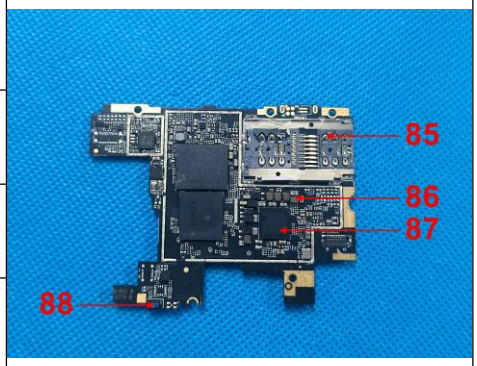
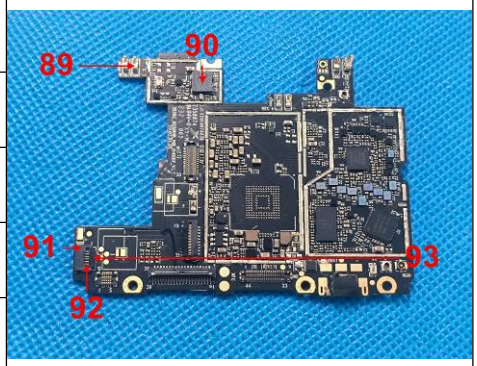
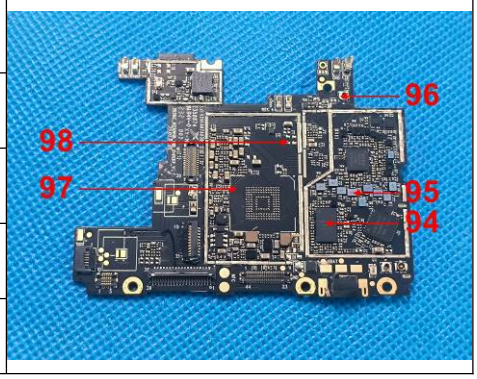
Sample No.	Description	Photograph
021	Black foam with glue	
022	Black FPC	
023	Silvery solder	
024	Black plastic	
025	Golden metal	
026	Black soft plastic	
027	Black plastic	
028	Transparent plastic	
029	Black plastic	
030	Black plastic	
031	Black plastic	
032	Black plastic	
033	Transparent plastic	
034	Black plastic	

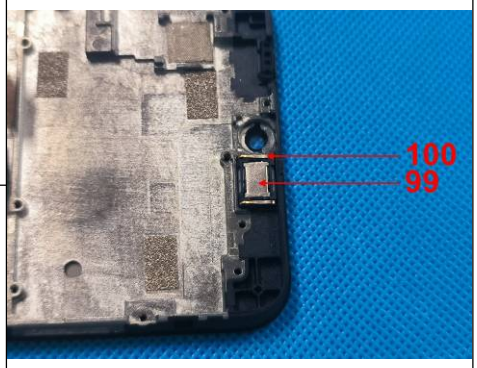
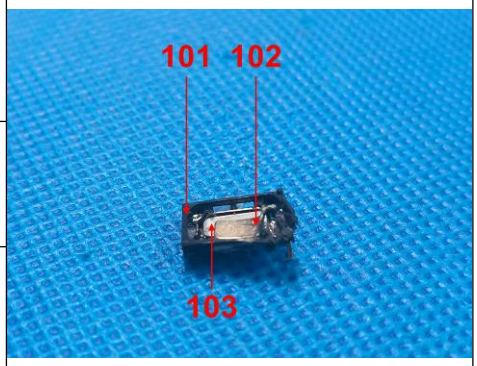
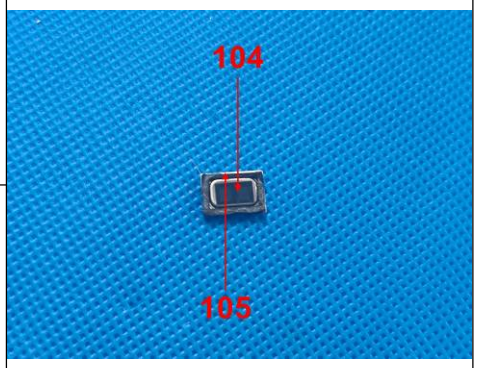
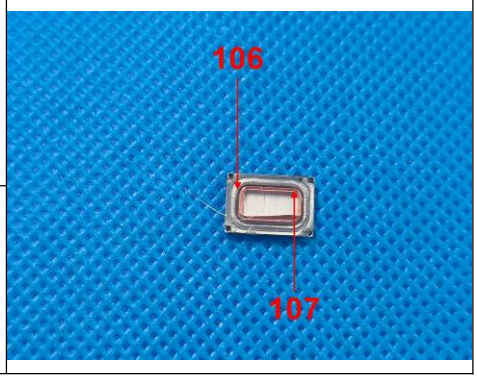
Sample No.	Description	Photograph
035	Black plastic	
036	Transparent plastic	
037	Black plastic	
038	Transparent plastic	
039	Transparent plastic	
040	Silvery metal	
041	Silvery magnet	
042	Gray plastic	
043	Coppery metal	
044	Black plastic	
045	Black body	

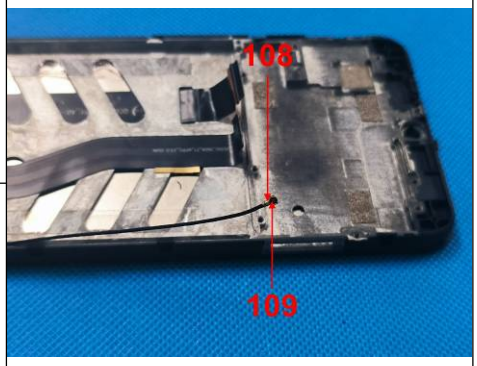
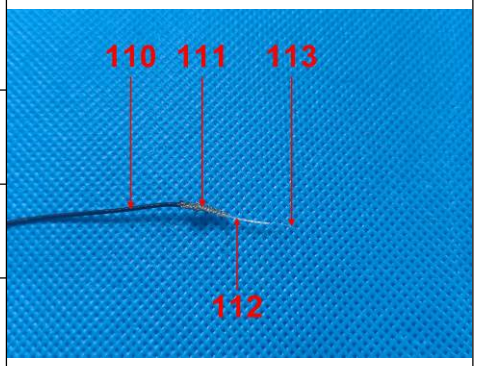
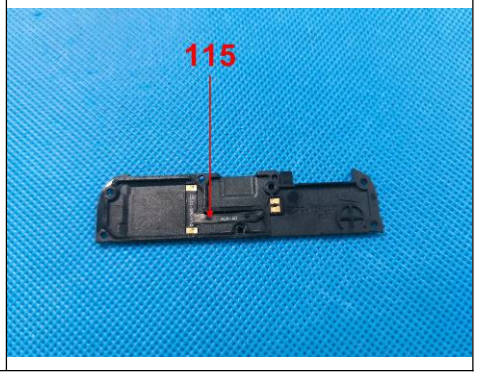
Sample No.	Description	Photograph
046	Yellow FPC	
047	Silvery solder	
048	Black plastic	
049	Black plastic	
050	Transparent plastic	
051	Transparent body	
052	Black FPC	
053	Silvery solder	
054	Black/white plastic	
055	Black foam with glue	

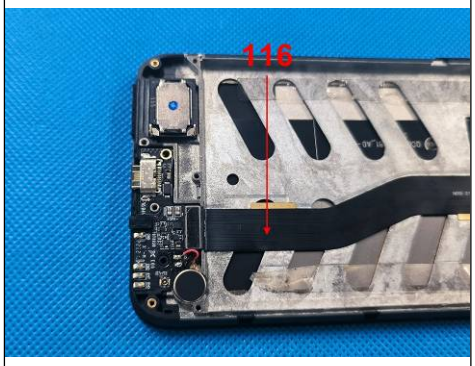
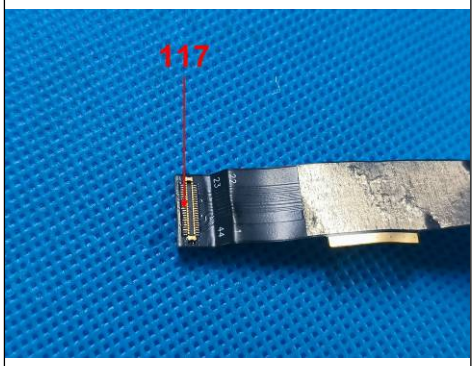
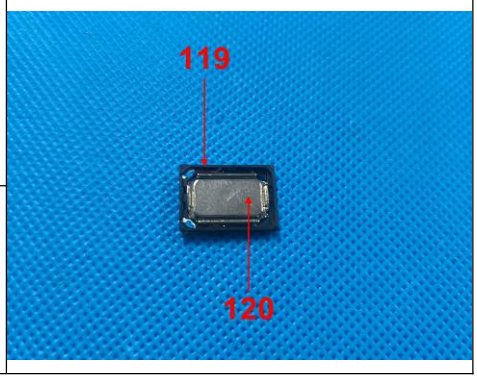
Sample No.	Description	Photograph
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057	Transparent plastic	
058	Black plastic	
059	Black plastic	
060	Black plastic	
061	Transparent plastic	
062	Black plastic	
063	Black plastic	
064	Transparent plastic	
065	Black plastic	
066	Transparent plastic	
067	Transparent plastic	
068	Gray plastic	
069	Green transparent glass	
070	Black body	
071	Black FPC	
072	Silvery solder	

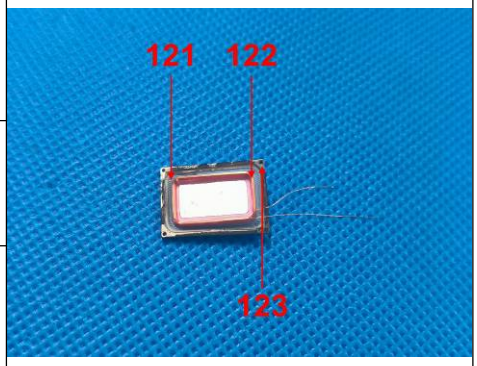
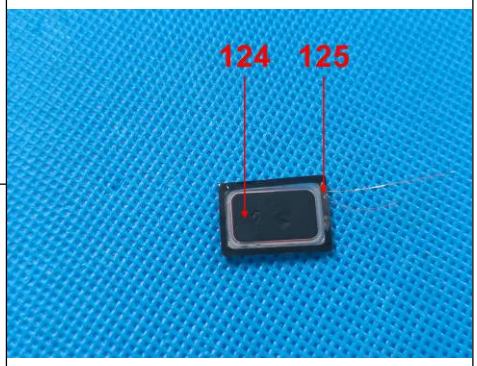
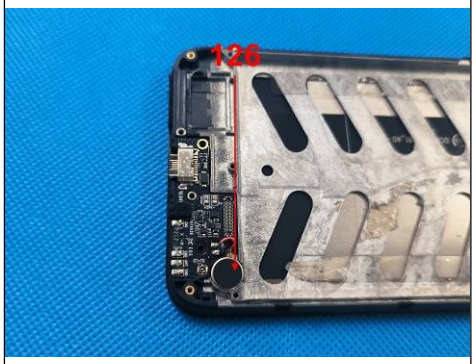
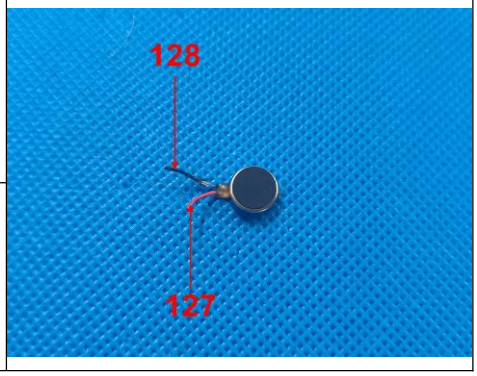
Sample No.	Description	Photograph
073	Silvery textile with glue	
074	Coppery metal foil	
075	Silvery metal with golden plating	
076	Blue silicone	
077	White plastic with black printing	
078	Silvery metal	
079	Silvery metal	
080	Silvery metal	

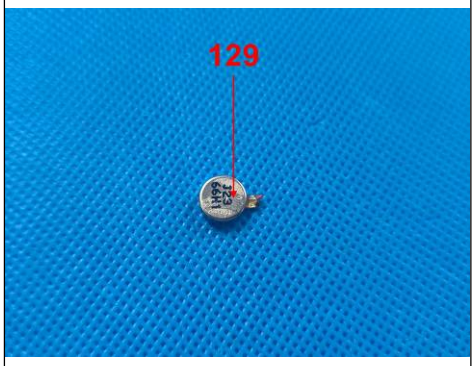
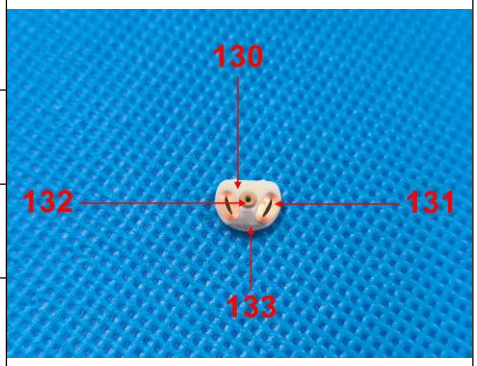
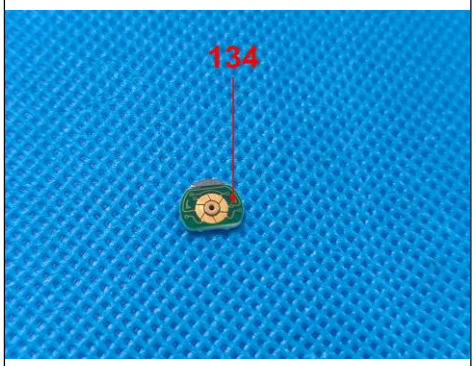
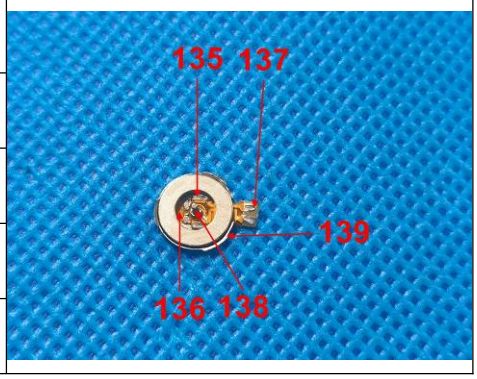
Sample No.	Description	Photograph
081	Black body	
082	Black body	
083	Black body	
084	Gray plastic	
085	Silvery metal with golden plating	
086	Brown body	
087	Black body	
088	Blue body	
089	Silvery metal with golden plating	
090	Black body	
091	Gray plastic	
092	Silvery metal	
093	Black plastic	
094	Black body	
095	Blue body	
096	Silvery metal	
097	Black PCB	
098	Silvery solder	

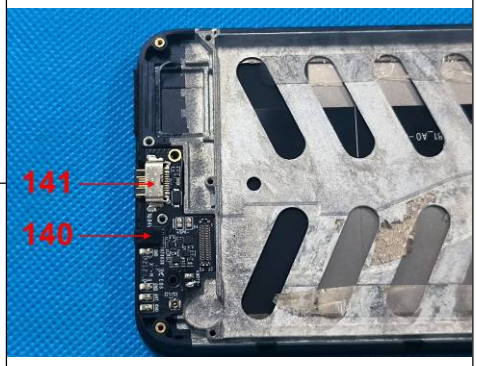
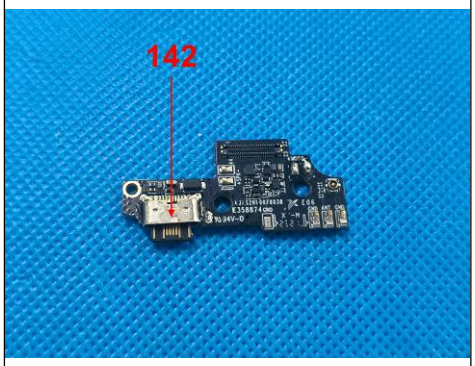
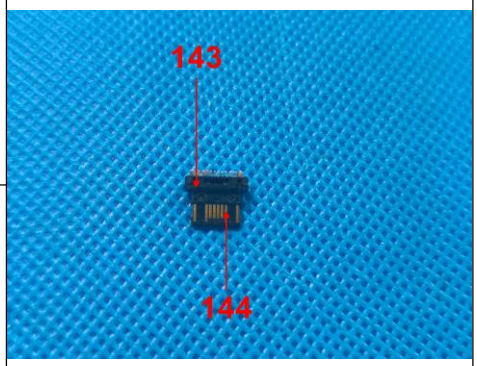
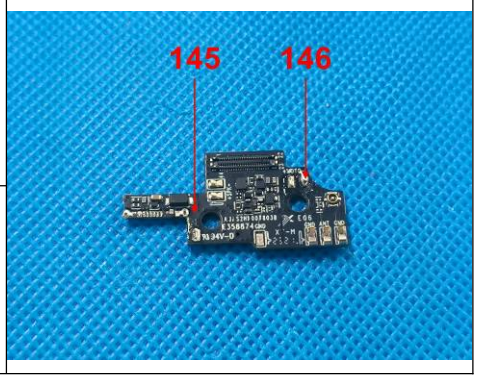
Sample No.	Description	Photograph
099	Silvery metal	
100	Silvery metal	
101	Black plastic	
102	Silvery metal	
103	Silvery magnet	
104	Black textile with glue	
105	Silvery metal	
106	Transparent plastic	
107	Coppery metal	

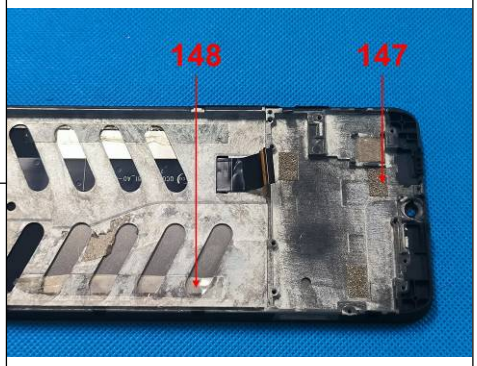
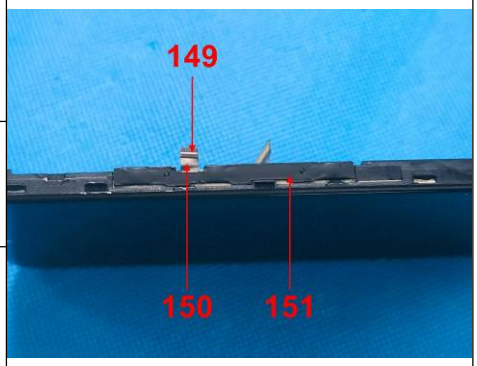
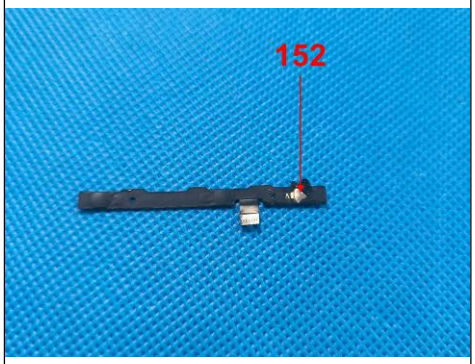
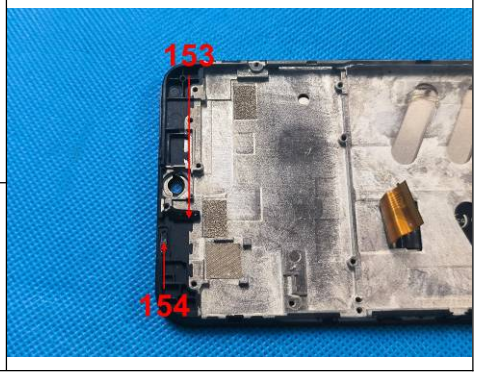
Sample No.	Description	Photograph
108	Golden metal	
109	Black plastic	
110	Black soft plastic	
111	Silvery metal	
112	Transparent soft plastic	
113	Silvery metal (wrie core)	
114	Black plastic	
115	Black FPC	

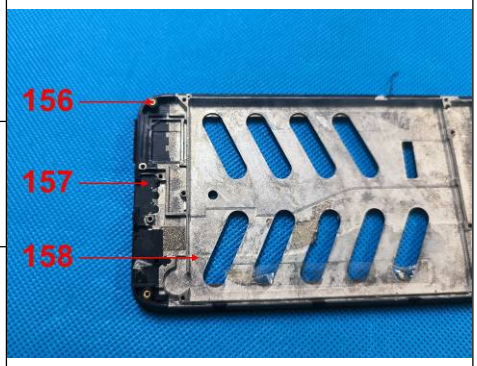
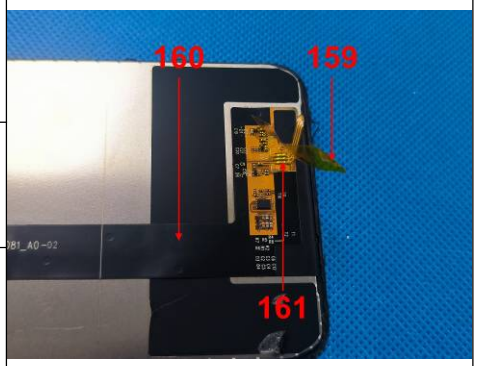
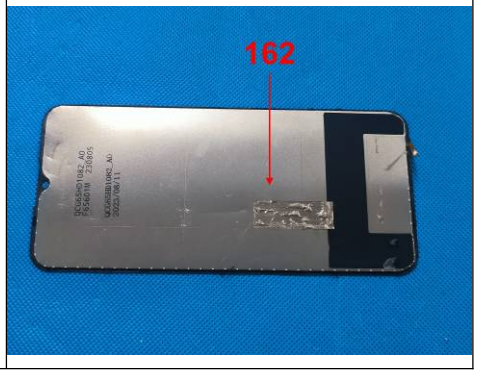
Sample No.	Description	Photograph
116	Black FPC	
117	Silvery solder	
118	Silvery metal	
119	Black plastic	
120	Silvery metal	

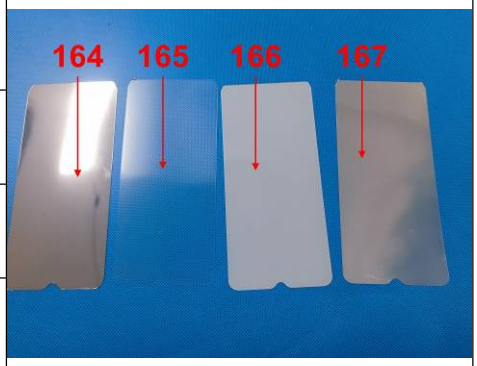
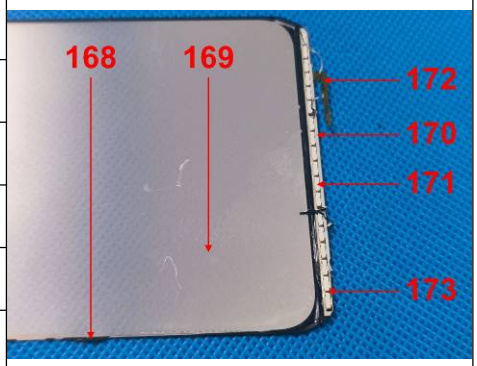
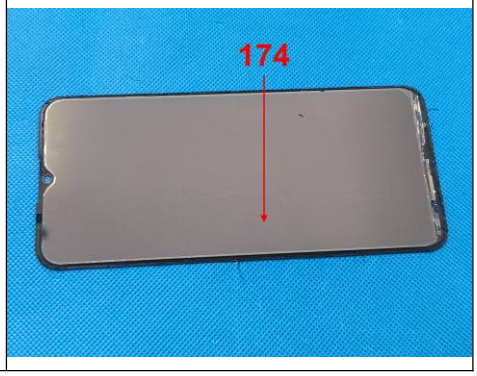
Sample No.	Description	Photograph
121	Transparent plastic	
122	Coppery metal	
123	Silvery metal	
124	Silver mettal foil with black plating	
125	Black plastic	
126	Black foam with glue	
127	Red soft plastic (wire jacket)	
128	Black soft plastic (wire jacket)	

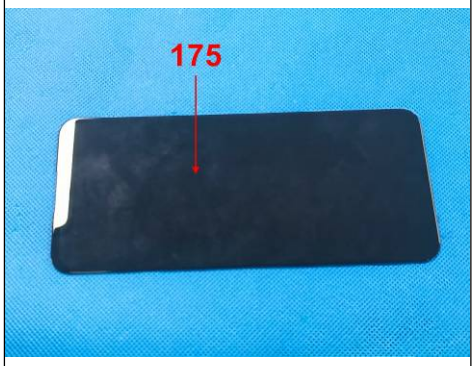
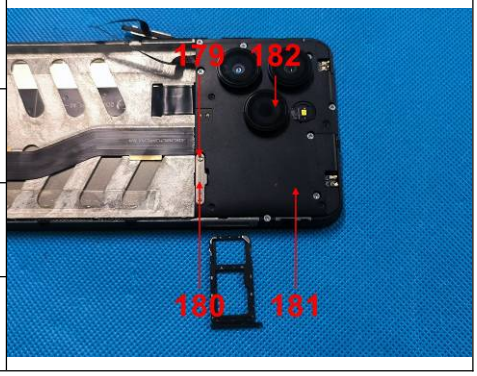
Sample No.	Description	Photograph
129	Silvery metal with black printing	
130	White plastic	
131	Coppery metal	
132	Golden metal	
133	Silvery metal	
134	Green PCB	
135	Silvery metal	
136	Yellow FPC	
137	Silvery solder	
138	Silvery metal	
139	Silvery metal	

Sample No.	Description	Photograph
140	Black soft plastic	
141	Silvery metal	
142	Silvery metal	
143	Black plastic	
144	Golden metal	
145	Black PCB	
146	Silvery solder	

Sample No.	Description	Photograph
147	Silvery foam	
148	Transparent double-sided glue	
149	Brown/white plastic	
150	Black FPC	
151	Black plastic	
152	Silvery metal	
153	Black soft plastic	
154	Transparent plastic	

Sample No.	Description	Photograph
155	Silvery metal with black plating	
156	Golden metal	
157	Black plastic	
158	Silvery metal	
159	Yellow plastic	
160	Black FPC	
161	Silvery solder	
162	Silvery metal	

Sample No.	Description	Photograph
163	White plastic	
164	Silvery plastic	
165	Transparent plastic	
166	White plastic	
167	Silvery plastic	
168	Black plastic	
169	Silvery plastic	
170	White plastic	
171	White body	
172	Yellow FPC	
173	Silvery solder	
174	Mirror glass	

Sample No.	Description	Photograph
175	Grey glass	
176	Transparent glass with gray/white plating	
177	Black plastic with gray plating	
178	Black plastic with gray plating	
179	Silvery metal (screw)	
180	Silvery metal	
181	Black plastic	
182	Transparent glass with plating	

Note:

The sample No. 001 - No. 175, No. 179 - No. 182 are the (Purple) test sample.

The sample No. 176 - No. 178 are the (Grey) test sample.

3. Test Results

3.1 Screening test for the specified hazardous substances of RoHS for the selected materials of the submitted sample:

- Heavy Metal (Cadmium, Chromium, Mercury, Lead) Content Test
- Bromine Content Test

According to IEC 62321-3-1:2013, and Quantification analyzed with Energy Dispersive X-ray Fluorescence Spectrometers.

Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 001	BL	BL	BL	BL	BL
Sample 002	BL	BL	BL	BL	BL
Sample 003	BL	BL	BL	BL	BL
Sample 004	BL	BL	BL	BL	N.A.
Sample 005	BL	BL	BL	BL	BL
Sample 006	BL	BL	BL	BL	BL
Sample 007	BL	BL	BL	BL	BL
Sample 008	BL	BL	BL	BL	BL
Sample 009	BL	BL	BL	BL	BL
Sample 010	BL	BL	BL	BL	BL
Sample 011	BL	BL	BL	BL	BL
Sample 012	BL	BL	BL	BL	N.A.
Sample 013	BL	BL	BL	BL	BL
Sample 014	BL	BL	BL	BL	N.A.
Sample 015	BL	BL	BL	BL	BL
Sample 016	BL	BL	BL	BL	BL
Sample 017	BL	BL	BL	Inconclusive^	N.A.
Sample 018	BL	BL	BL	BL	N.A.
Sample 019	BL	BL	BL	BL	N.A.
Sample 020	BL	BL	BL	BL	N.A.
Sample 021	BL	BL	BL	BL	BL
Sample 022	BL	BL	BL	BL	BL
Sample 023*	BL	BL	BL	BL	N.A.
Sample 024	BL	BL	BL	BL	BL
Sample 025	BL	BL	BL	BL	N.A.
Sample 026	BL	BL	BL	BL	BL

Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 027	BL	BL	BL	BL	BL
Sample 028	BL	BL	BL	BL	BL
Sample 029	BL	BL	BL	BL	BL
Sample 030	BL	BL	BL	BL	BL
Sample 031	BL	BL	BL	BL	BL
Sample 032	BL	BL	BL	BL	BL
Sample 033	BL	BL	BL	BL	BL
Sample 034	BL	BL	BL	BL	BL
Sample 035	BL	BL	BL	BL	BL
Sample 036	BL	BL	BL	BL	BL
Sample 037	BL	BL	BL	BL	BL
Sample 038	BL	BL	BL	BL	BL
Sample 039	BL	BL	BL	BL	BL
Sample 040	BL	BL	BL	BL	N.A.
Sample 041	BL	BL	BL	BL	BL
Sample 042	BL	BL	BL	BL	BL
Sample 043	BL	BL	BL	BL	N.A.
Sample 044	BL	BL	BL	BL	BL
Sample 045	BL	BL	BL	BL	BL
Sample 046	BL	BL	BL	BL	BL
Sample 047	BL	BL	BL	BL	N.A.
Sample 048	BL	BL	BL	BL	BL
Sample 049	BL	BL	BL	BL	BL
Sample 050	BL	BL	BL	BL	BL
Sample 051	BL	BL	BL	BL	BL
Sample 052	BL	BL	BL	BL	BL
Sample 053	BL	BL	BL	Inconclusive^	N.A.
Sample 054	BL	BL	BL	BL	BL
Sample 055	BL	BL	BL	BL	BL
Sample 056	BL	BL	BL	BL	BL
Sample 057	BL	BL	BL	BL	BL
Sample 058	BL	BL	BL	BL	BL
Sample 059	BL	BL	BL	BL	BL
Sample 060	BL	BL	BL	BL	BL
Sample 061	BL	BL	BL	BL	BL

Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 062	BL	BL	BL	BL	BL
Sample 063	BL	BL	BL	BL	BL
Sample 064	BL	BL	BL	BL	BL
Sample 065	BL	BL	BL	BL	BL
Sample 066	BL	BL	BL	BL	BL
Sample 067	BL	BL	BL	BL	BL
Sample 068	BL	BL	BL	BL	BL
Sample 069	BL	BL	BL	BL	BL
Sample 070	BL	BL	BL	BL	BL
Sample 071	BL	BL	BL	BL	BL
Sample 072	BL	BL	BL	Inconclusive^	N.A.
Sample 073	BL	BL	BL	BL	BL
Sample 074	BL	BL	BL	BL	N.A.
Sample 075	BL	BL	BL	BL	N.A.
Sample 076	BL	BL	BL	BL	BL
Sample 077	BL	BL	BL	BL	BL
Sample 078	BL	BL	BL	BL	N.A.
Sample 079	BL	BL	BL	BL	N.A.
Sample 080	BL	BL	BL	BL	N.A.
Sample 081	BL	BL	BL	BL	BL
Sample 082	BL	BL	BL	BL	BL
Sample 083	BL	BL	BL	BL	BL
Sample 084	BL	BL	BL	BL	BL
Sample 085	BL	BL	BL	BL	N.A.
Sample 086	BL	BL	BL	BL	BL
Sample 087	BL	BL	BL	BL	BL
Sample 088	BL	BL	BL	BL	BL
Sample 089	BL	BL	BL	BL	N.A.
Sample 090	BL	BL	BL	BL	BL
Sample 091	BL	BL	BL	BL	BL
Sample 092	BL	BL	BL	BL	N.A.
Sample 093	BL	BL	BL	BL	BL
Sample 094	BL	BL	BL	BL	BL
Sample 095	BL	BL	BL	BL	BL
Sample 096	BL	BL	BL	BL	N.A.

Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 097	BL	BL	BL	BL	Inconclusive^
Sample 098	BL	BL	BL	BL	N.A.
Sample 099	BL	BL	BL	BL	N.A.
Sample 100	BL	BL	BL	BL	N.A.
Sample 101	BL	BL	BL	BL	BL
Sample 102	BL	BL	BL	BL	N.A.
Sample 103	BL	BL	BL	BL	BL
Sample 104	BL	BL	BL	BL	BL
Sample 105	BL	BL	BL	BL	N.A.
Sample 106	BL	BL	BL	BL	BL
Sample 107	BL	BL	BL	BL	N.A.
Sample 108	BL	BL	BL	BL	N.A.
Sample 109	BL	BL	BL	BL	BL
Sample 110	BL	BL	BL	BL	BL
Sample 111	BL	BL	BL	BL	N.A.
Sample 112	BL	BL	BL	BL	BL
Sample 113	BL	BL	BL	BL	N.A.
Sample 114	BL	BL	BL	BL	BL
Sample 115	BL	BL	BL	BL	BL
Sample 116	BL	BL	BL	BL	BL
Sample 117	BL	BL	BL	BL	N.A.
Sample 118	BL	BL	BL	BL	N.A.
Sample 119	BL	BL	BL	BL	BL
Sample 120	BL	BL	BL	BL	N.A.
Sample 121	BL	BL	BL	BL	BL
Sample 122	BL	BL	BL	BL	N.A.
Sample 123	BL	BL	BL	BL	N.A.
Sample 124	BL	BL	BL	BL	N.A.
Sample 125	BL	BL	BL	BL	BL
Sample 126	BL	BL	BL	BL	BL
Sample 127	BL	BL	BL	BL	BL
Sample 128	BL	BL	BL	BL	BL
Sample 129	BL	BL	BL	BL	N.A.
Sample 130	BL	BL	BL	BL	BL
Sample 131	BL	BL	BL	BL	N.A.

Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 132	BL	BL	BL	BL	N.A.
Sample 133	BL	BL	BL	BL	N.A.
Sample 134	BL	BL	BL	BL	BL
Sample 135	BL	BL	BL	BL	N.A.
Sample 136	BL	BL	BL	BL	BL
Sample 137	BL	BL	BL	BL	N.A.
Sample 138	BL	BL	BL	BL	N.A.
Sample 139	BL	BL	BL	BL	N.A.
Sample 140	BL	BL	BL	BL	BL
Sample 141	BL	BL	BL	BL	N.A.
Sample 142	BL	BL	BL	Inconclusive^	N.A.
Sample 143	BL	BL	BL	BL	BL
Sample 144	BL	BL	BL	BL	N.A.
Sample 145	BL	BL	BL	BL	Inconclusive^
Sample 146	BL	BL	BL	BL	N.A.
Sample 147	BL	BL	BL	BL	BL
Sample 148	BL	BL	BL	BL	BL
Sample 149	BL	BL	BL	BL	BL
Sample 150	BL	BL	BL	BL	BL
Sample 151	BL	BL	BL	BL	BL
Sample 152	BL	BL	BL	BL	N.A.
Sample 153	BL	BL	BL	BL	BL
Sample 154	BL	BL	BL	BL	BL
Sample 155	BL	BL	BL	BL	N.A.
Sample 156	BL	BL	BL	BL	N.A.
Sample 157	BL	BL	BL	BL	BL
Sample 158	BL	BL	BL	BL	N.A.
Sample 159	BL	BL	BL	BL	BL
Sample 160	BL	BL	BL	BL	BL
Sample 161	BL	BL	BL	BL	N.A.
Sample 162	BL	BL	BL	BL	N.A.
Sample 163	BL	BL	BL	BL	BL
Sample 164	BL	BL	BL	BL	BL
Sample 165	BL	BL	BL	BL	BL
Sample 166	BL	BL	BL	BL	BL

Sample No.	Total Cadmium	Total Lead	Total Mercury	Total Chromium	Total Bromine
Sample 167	BL	BL	BL	BL	BL
Sample 168	BL	BL	BL	BL	BL
Sample 169	BL	BL	BL	BL	BL
Sample 170	BL	BL	BL	BL	BL
Sample 171	BL	BL	BL	BL	BL
Sample 172	BL	BL	BL	BL	BL
Sample 173	BL	BL	BL	BL	N.A.
Sample 174	BL	BL	BL	BL	BL
Sample 175	BL	BL	BL	BL	BL
Sample 176	BL	BL	BL	BL	BL
Sample 177	BL	BL	BL	BL	BL
Sample 178	BL	BL	BL	BL	BL
Sample 179	BL	BL	BL	BL	N.A.
Sample 180	BL	BL	BL	BL	N.A.
Sample 181	BL	BL	BL	BL	BL
Sample 182	BL	BL	BL	BL	BL

Note:

1. All Concentrations express in “mg/kg” (milligram per kilogram), mg/kg ~ ppm
2. “OL” denotes “over limit”
3. “BL” denotes “below limit”
4. “N.A.” denotes “Not Applicable”
5. “Inconclusive” denotes result is intermediate between “OL” and “BL”
6. “^”denotes the screening result was inconclusive(X) or over limit (OL), thus further confirmation test was conducted, results are listed in 3.2 and 3.3.
7. "*"=The sample of test item was resubmitted by the customer on Sep 26, 2023.

XRF screening limits for different materials:

Materials	Concentration (mg/kg)				
	Cd	Cr	Pb	Hg	Br
Metal	BL≤(70-3σ)<X<(130+3σ)≤OL	BL≤(700-3σ)<X	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(700-3σ)<X<(1300+3σ)≤OL	N.A.
Polymers	BL≤(70-3σ)<X<(130+3σ)≤OL	BL≤(700-3σ)<X	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(700-3σ)<X<(1300+3σ)≤OL	BL≤(300-3σ)<X
Composite material	BL≤(50-3σ)<X<(150+3σ)≤OL	BL≤(500-3σ)<X	BL≤(500-3σ)<X<(1500+3σ)≤OL	BL≤(500-3σ)<X<(1500+3σ)≤OL	BL≤(250-3σ)<X

3. 2 Test for Heavy Metals

– Lead, Cadmium, Hexavalent Chromium and Mercury Tests according to IEC 62321-4:2013+A1:2017 &IEC 62321-5:2013 & IEC 62321-7-1:2015& IEC 62321-7-2:2017, Analysis was conducted by ICP-OES, UV-VIS, AAS.

Element	Total Cadmium [mg/kg]	Total Lead [mg/kg]	Total Mercury [mg/kg]	Hexavalent Chromium [μg/cm²]	Hexavalent Chromium [mg/kg]
Detection Limit	**5**	**5**	**5**	**0.10**	**5**
Limit	**100**	**1000**	**1000**	**※**	**1000**
Sample 017	/	/	/	N.D.	/
Sample 053	/	/	/	N.D.	/
Sample 072	/	/	/	N.D.	/
Sample 142	/	/	/	N.D.	/

Note:

1. All Concentrations express in “mg/kg”(milligram per kilogram), mg/kg ~ ppm.
2. “N.D.” = “Not Detected”.
3. ※= a. When the concentration of hexavalent chromium in boiling-water-extraction solution with 1cm² sample surface area is higher than 0.13 μg/cm², the sample is positive, that is, contains hexavalent chromium;
   b. When the concentration of hexavalent chromium in boiling-water-extraction solution with 1cm² sample surface area is N.D.(less than 0.10μg/cm²), the sample is negative, that is, no hexavalent chromium is detected;
   c. When the concentration of hexavalent chromium in boiling-water-extraction solution with 1cm² sample surface area is between 0.10μg/cm² and 0.13μg/cm², it is not possible to directly determine whether hexavalent chromium is detected.

Surface differences of samples from different individuals may affect the determination results:
Since the storage condition and production date of the sample are not known, the test result of the sample can only represent the state of the sample containing hexavalent chromium at the time of the test.
Positive = result be regarded as not comply with RoHS requirement
Negative = result be regarded as comply with RoHS requirement

3. 3 Test for Flame retardants

– Test method: According to IEC 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting Limit: 5mg/kg]

Test Item		Result [mg/kg]		RoHS Requirement [mg/kg]
		Sample 097	Sample 145	
PBBs	Monobromobiphenyl	< 5	< 5	Sum of PBBs < 1000
	Dibromobiphenyl	< 5	< 5	
	Tribromobiphenyl	< 5	< 5	
	Tetrabromobiphenyl	< 5	< 5	
	Pentabromobiphenyl	< 5	< 5	
	Hexabromobiphenyl	< 5	< 5	
	Heptabromobiphenyl	< 5	< 5	
	Octabromobiphenyl	< 5	< 5	
	Nonabromobiphenyl	< 5	< 5	
	Decabromobiphenyl	< 5	< 5	
	Sum of PBBs	< 5	< 5	
PBDEs	Monobromodiphenyl Ether	< 5	< 5	Sum of PBDEs < 1000
	Dibromodiphenyl Ether	< 5	< 5	
	Tribromodiphenyl Ether	< 5	< 5	
	Tetrabromodiphenyl Ether	< 5	< 5	
	Pentabromodiphenyl Ether	< 5	< 5	
	Hexabromodiphenyl Ether	< 5	< 5	
	Heptabromodiphenyl Ether	< 5	< 5	
	Octabromodiphenyl Ether	< 5	< 5	
	Nonabromodiphenyl Ether	< 5	< 5	
	Decabromodiphenyl Ether	< 5	< 5	
	Sum of PBDEs	< 5	< 5	

Note:

1. All Concentrations express in “mg/kg” (milligram per kilogram), mg/kg ~ ppm.
2. “<” denotes less than

3.4 Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate (DBP), Diisobutyl phthalate (DIBP) Content—RoHS Directive 2011/65/EU Annex II amending Directive (EU)2015/863

Test method: According to IEC 62321-8:2017; Analysis was conducted by GC-MS.

Element	Di-(2-ethylhexyl) phthalate (DEHP) [mg/kg]	Benzylbutyl phthalate (BBP) [mg/kg]	Dibutyl phthalate (DBP) [mg/kg]	Diisobutyl phthalate(DIBP) [mg/kg]
Detection Limit	**50**	**50**	**50**	**50**
Limit	**1000**	**1000**	**1000**	**1000**
Sample 001	N.D.	N.D.	N.D.	N.D.
Sample 002	N.D.	N.D.	N.D.	N.D.
Sample 003	N.D.	N.D.	N.D.	N.D.
Sample 005	N.D.	N.D.	N.D.	N.D.
Sample 006	N.D.	N.D.	N.D.	N.D.
Sample 007	N.D.	N.D.	N.D.	N.D.
Sample 008	N.D.	N.D.	N.D.	N.D.
Sample 009	N.D.	N.D.	N.D.	N.D.
Sample 010	N.D.	N.D.	N.D.	N.D.
Sample 011	N.D.	N.D.	N.D.	N.D.
Sample 013	N.D.	N.D.	N.D.	N.D.
Sample 015	N.D.	N.D.	N.D.	N.D.
Sample 016	N.D.	N.D.	N.D.	N.D.
Sample 021	N.D.	N.D.	N.D.	N.D.
Sample 022	N.D.	N.D.	N.D.	N.D.
Sample 024	N.D.	N.D.	N.D.	N.D.
Sample 026	N.D.	N.D.	N.D.	N.D.
Sample 027	N.D.	N.D.	N.D.	N.D.
Sample 028	N.D.	N.D.	N.D.	N.D.
Sample 029	N.D.	N.D.	N.D.	N.D.
Sample 030	N.D.	N.D.	N.D.	N.D.
Sample 031	N.D.	N.D.	N.D.	N.D.
Sample 032	N.D.	N.D.	N.D.	N.D.
Sample 033	N.D.	N.D.	N.D.	N.D.
Sample 034	N.D.	N.D.	N.D.	N.D.
Sample 035	N.D.	N.D.	N.D.	N.D.
Sample 036	N.D.	N.D.	N.D.	N.D.
Sample 037	N.D.	N.D.	N.D.	N.D.
Sample 038	N.D.	N.D.	N.D.	N.D.
Sample 039	N.D.	N.D.	N.D.	N.D.

Element	Di-(2-ethylhexyl) phthalate (DEHP) [mg/kg]	Benzylbutyl phthalate (BBP) [mg/kg]	Dibutyl phthalate (DBP) [mg/kg]	Diisobutyl phthalate(DIBP) [mg/kg]
Detection Limit	**50**	**50**	**50**	**50**
Limit	**1000**	**1000**	**1000**	**1000**
Sample 041	N.D.	N.D.	N.D.	N.D.
Sample 042	N.D.	N.D.	N.D.	N.D.
Sample 044	N.D.	N.D.	N.D.	N.D.
Sample 045	N.D.	N.D.	N.D.	N.D.
Sample 046	N.D.	N.D.	N.D.	N.D.
Sample 048	N.D.	N.D.	N.D.	N.D.
Sample 049	N.D.	N.D.	N.D.	N.D.
Sample 050	N.D.	N.D.	N.D.	N.D.
Sample 051	N.D.	N.D.	N.D.	N.D.
Sample 052	N.D.	N.D.	N.D.	N.D.
Sample 054	N.D.	N.D.	N.D.	N.D.
Sample 055	N.D.	N.D.	N.D.	N.D.
Sample 056	N.D.	N.D.	N.D.	N.D.
Sample 057	N.D.	N.D.	N.D.	N.D.
Sample 058	N.D.	N.D.	N.D.	N.D.
Sample 059	N.D.	N.D.	N.D.	N.D.
Sample 060	N.D.	N.D.	N.D.	N.D.
Sample 061	N.D.	N.D.	N.D.	N.D.
Sample 062	N.D.	N.D.	N.D.	N.D.
Sample 063	N.D.	N.D.	N.D.	N.D.
Sample 064	N.D.	N.D.	N.D.	N.D.
Sample 065	N.D.	N.D.	N.D.	N.D.
Sample 066	N.D.	N.D.	N.D.	N.D.
Sample 067	N.D.	N.D.	N.D.	N.D.
Sample 068	N.D.	N.D.	N.D.	N.D.
Sample 069	N.D.	N.D.	N.D.	N.D.
Sample 070	N.D.	N.D.	N.D.	N.D.
Sample 071	N.D.	N.D.	N.D.	N.D.
Sample 073	N.D.	N.D.	N.D.	N.D.
Sample 076	N.D.	N.D.	N.D.	N.D.
Sample 077	N.D.	N.D.	N.D.	N.D.
Sample 081	N.D.	N.D.	N.D.	N.D.
Sample 082	N.D.	N.D.	N.D.	N.D.

Element	Di-(2-ethylhexyl) phthalate (DEHP) [mg/kg]	Benzylbutyl phthalate (BBP) [mg/kg]	Dibutyl phthalate (DBP) [mg/kg]	Diisobutyl phthalate(DIBP) [mg/kg]
Detection Limit	**50**	**50**	**50**	**50**
Limit	**1000**	**1000**	**1000**	**1000**
Sample 083	N.D.	N.D.	N.D.	N.D.
Sample 084	N.D.	N.D.	N.D.	N.D.
Sample 086	N.D.	N.D.	N.D.	N.D.
Sample 087	N.D.	N.D.	N.D.	N.D.
Sample 088	N.D.	N.D.	N.D.	N.D.
Sample 090	N.D.	N.D.	N.D.	N.D.
Sample 091	N.D.	N.D.	N.D.	N.D.
Sample 093	N.D.	N.D.	N.D.	N.D.
Sample 094	N.D.	N.D.	N.D.	N.D.
Sample 095	N.D.	N.D.	N.D.	N.D.
Sample 097	N.D.	N.D.	N.D.	N.D.
Sample 101	N.D.	N.D.	N.D.	N.D.
Sample 103	N.D.	N.D.	N.D.	N.D.
Sample 104	N.D.	N.D.	N.D.	N.D.
Sample 106	N.D.	N.D.	N.D.	N.D.
Sample 109	N.D.	N.D.	N.D.	N.D.
Sample 110	N.D.	N.D.	N.D.	N.D.
Sample 112	N.D.	N.D.	N.D.	N.D.
Sample 114	N.D.	N.D.	N.D.	N.D.
Sample 115	N.D.	N.D.	N.D.	N.D.
Sample 116	N.D.	N.D.	N.D.	N.D.
Sample 119	N.D.	N.D.	N.D.	N.D.
Sample 121	N.D.	N.D.	N.D.	N.D.
Sample 125	N.D.	N.D.	N.D.	N.D.
Sample 126	N.D.	N.D.	N.D.	N.D.
Sample 127	N.D.	N.D.	N.D.	N.D.
Sample 128	N.D.	N.D.	N.D.	N.D.
Sample 130	N.D.	N.D.	N.D.	N.D.
Sample 134	N.D.	N.D.	N.D.	N.D.
Sample 136	N.D.	N.D.	N.D.	N.D.
Sample 140	N.D.	N.D.	N.D.	N.D.
Sample 143	N.D.	N.D.	N.D.	N.D.
Sample 145	N.D.	N.D.	N.D.	N.D.

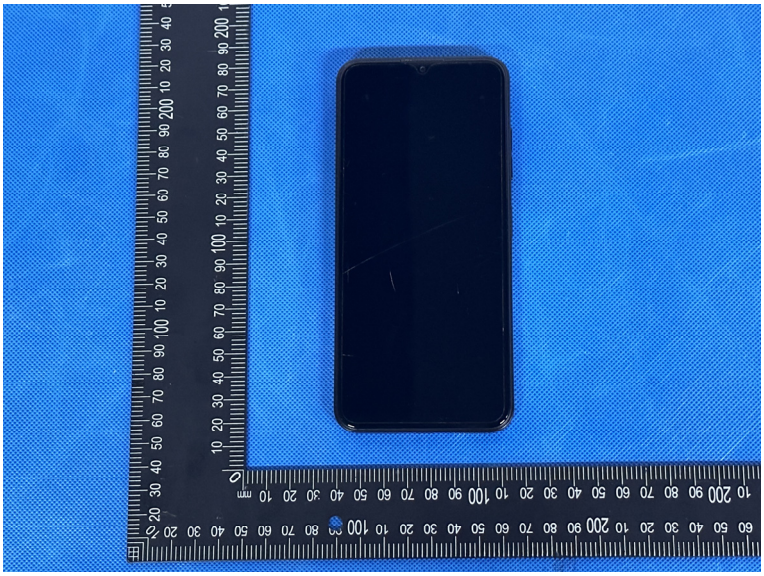
Element	Di-(2-ethylhexyl) phthalate (DEHP) [mg/kg]	Benzylbutyl phthalate (BBP) [mg/kg]	Dibutyl phthalate (DBP) [mg/kg]	Diisobutyl phthalate(DIBP) [mg/kg]
Detection Limit	**50**	**50**	**50**	**50**
Limit	**1000**	**1000**	**1000**	**1000**
Sample 147	N.D.	N.D.	N.D.	N.D.
Sample 148	N.D.	N.D.	N.D.	N.D.
Sample 149	N.D.	N.D.	N.D.	N.D.
Sample 150	N.D.	N.D.	N.D.	N.D.
Sample 151	N.D.	N.D.	N.D.	N.D.
Sample 153	N.D.	N.D.	N.D.	N.D.
Sample 154	N.D.	N.D.	N.D.	N.D.
Sample 157	N.D.	N.D.	N.D.	N.D.
Sample 159	N.D.	N.D.	N.D.	N.D.
Sample 160	N.D.	N.D.	N.D.	N.D.
Sample 163	N.D.	N.D.	N.D.	N.D.
Sample 164	N.D.	N.D.	N.D.	N.D.
Sample 165	N.D.	N.D.	N.D.	N.D.
Sample 166	N.D.	N.D.	N.D.	N.D.
Sample 167	N.D.	N.D.	N.D.	N.D.
Sample 168	N.D.	N.D.	N.D.	N.D.
Sample 169	N.D.	N.D.	N.D.	N.D.
Sample 170	N.D.	N.D.	N.D.	N.D.
Sample 171	N.D.	N.D.	N.D.	N.D.
Sample 172	N.D.	N.D.	N.D.	N.D.
Sample 174	N.D.	N.D.	N.D.	N.D.
Sample 175	N.D.	N.D.	N.D.	N.D.
Sample 176	N.D.	N.D.	N.D.	N.D.
Sample 177	N.D.	N.D.	N.D.	N.D.
Sample 178	N.D.	N.D.	N.D.	N.D.
Sample 181	N.D.	N.D.	N.D.	N.D.
Sample 182	N.D.	N.D.	N.D.	N.D.

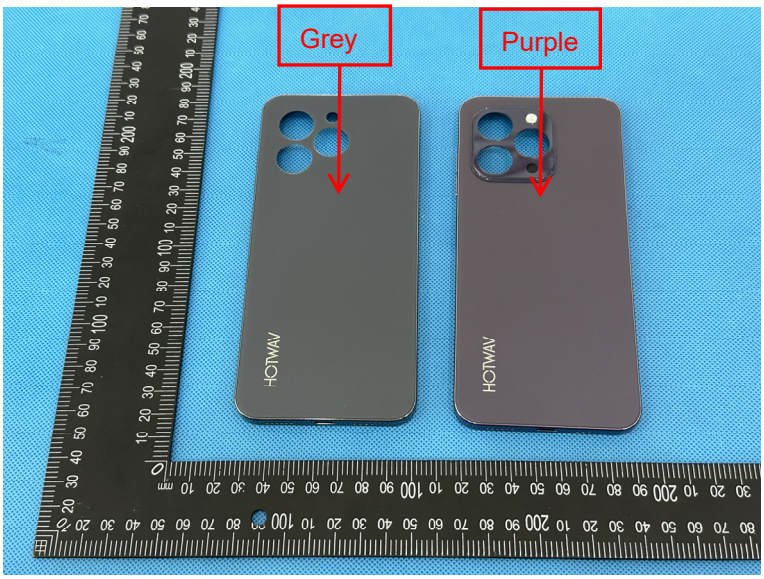
Note:

1. All Concentrations express in “mg/kg”(milligram per kilogram), mg/kg ~ ppm.
2. “N.D.” = “Not Detected”.

Remark: As specified by applicant, to test content in the selected materials of the submitted samples. The test results are only responsible for the submitted sample. The test report is only for customer research, teaching, internal quality control, product development and other purposes, for reference only.

Photo of the Submitted Sample





*** End of Report ***