



TEST REPORT

Report No.: LCS210421030AR

Date: 2021.06.04

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Applicant : Purism SPC

Address : One Market Street, 36th Floor, San Francisco, CA 94105, USA

Report on the submitted samples said to be:

Sample Name : mobile phone

Trade Mark : Purism

Style No. : Librem 5

Testing Period : May 27, 2021 ~ June 4, 2021

Results : Please refer to next page(s).

TEST REQUEST	CONCLUSION
According to the customer's request, based on the performed tests on submitted sample, the result of Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), PBBs, PBDEs, Dibutyl Phthalate(DBP), Benzylbutyl Phthalate(BBP), Bis(2-ethylhexyl) Phthalate(DEHP), Diisobutyl phthalate(DIBP) content comply with the limit requirement as set of RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.	Pass

Signed for and on behalf of LCS





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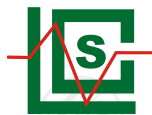
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Results:

A.EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ⁺		
						PBBs	PBDEs	
1	Transparent glass	BL	BL	BL	BL	BL	BL	2021-05-27
2	Black plastic cover	BL	BL	BL	BL	BL	BL	2021-05-27
3	Transparent glass	BL	BL	BL	BL	BL	BL	2021-05-27
4	Lamp beads	BL	BL	BL	BL	BL	BL	2021-05-27
5	Black plastic button	BL	BL	BL	BL	/	/	2021-05-27
6	Black plastic cover	BL	BL	BL	BL	/	/	2021-05-27
7	Silver metal interface	BL	BL	BL	BL	/	/	2021-05-27
8	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-05-27
9	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-05-27
10	Black plastic button	BL	BL	BL	BL	BL	BL	2021-05-27
11	Black plastic cover	BL	BL	BL	BL	BL	BL	2021-05-27
12	Black plastic cover	BL	BL	BL	BL	BL	BL	2021-05-27
13	Silver metal pins	BL	BL	BL	BL	/	/	2021-05-27
14	Silver metal ring	BL	BL	BL	BL	/	/	2021-05-27
15	Blue plastic sheet	BL	BL	BL	BL	BL	BL	2021-05-27
16	Black plastic cover	BL	BL	BL	BL	BL	BL	2021-05-27
17	Black plastic ring	BL	BL	BL	BL	BL	BL	2021-05-27
18	Silver metal pillar	BL	BL	BL	BL	/	/	2021-05-27
19	Black plastic wire sheath	BL	BL	BL	BL	BL	BL	2021-05-27
20	Black plastic cover	BL	BL	BL	BL	BL	BL	2021-05-27
21	Silver metal interface	BL	BL	BL	BL	/	/	2021-05-27
22	Blue plastic sheet	BL	BL	BL	BL	BL	BL	2021-05-27
23	Golden metal pillar	BL	BL	BL	BL	/	/	2021-05-27
24	Black plastic washer	BL	BL	BL	BL	BL	BL	2021-05-27
25	Silver metal screws	BL	BL	BL	BL	/	/	2021-05-27



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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^Ⅵ	Br ^Ⅳ		
						PBBs	PBDEs	
26	Black plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
27	Silver metal wire	BL	BL	BL	BL	/	/	2021-05-27
28	Silver metal buckle	BL	BL	BL	BL	/	/	2021-05-27
29	Black triode	BL	BL	BL	BL	BL	BL	2021-05-27
30	Black diode	BL	BL	BL	BL	BL	BL	2021-05-27
31	Silver metal body	BL	BL	BL	BL	/	/	2021-05-27
32	Golden metal needle	BL	BL	BL	BL	/	/	2021-05-27
33	Silver metal ring	BL	BL	BL	BL	/	/	2021-05-27
34	Gray ceramic body	BL	BL	BL	BL	BL	BL	2021-05-27
35	Black ceramic body	BL	BL	BL	BL	BL	BL	2021-05-27
36	Blue PCB board	BL	BL	BL	BL	BL	BL	2021-05-27
37	Silver black metal body	BL	BL	BL	BL	/	/	2021-05-27
38	Printed plastic label	BL	BL	BL	BL	BL	BL	2021-05-27
39	Silver metal cover	BL	BL	BL	BL	/	/	2021-05-27
40	Golden metal needle	BL	BL	BL	BL	/	/	2021-05-27
41	Black ceramic body	BL	BL	BL	BL	BL	BL	2021-05-27
42	Silver metal frame	BL	BL	BL	BL	/	/	2021-05-27
43	Black ceramic body	BL	BL	BL	BL	BL	BL	2021-05-27
44	Golden metal half ring	BL	BL	BL	BL	/	/	2021-05-27
45	Silver metal body	BL	BL	BL	BL	/	/	2021-05-27
46	Blue ceramic body	BL	BL	BL	BL	BL	BL	2021-05-27
47	Black ceramic body	BL	BL	BL	BL	BL	BL	2021-05-27
48	Black plastic frame	BL	BL	BL	BL	BL	BL	2021-05-27
49	Silver metal sheet	BL	BL	BL	BL	/	/	2021-05-27
50	Golden plastic sticker	BL	BL	BL	BL	BL	BL	2021-05-27
51	Lamp beads	BL	BL	BL	BL	BL	BL	2021-05-27
52	Black plastic frame	BL	BL	BL	BL	BL	BL	2021-05-27
53	Black plastic sticker	BL	BL	BL	BL	BL	BL	2021-05-27
54	Silver metal frame	BL	BL	BL	BL	/	/	2021-05-27
55	Yellow line	BL	BL	BL	BL	BL	BL	2021-05-27



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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr [▼]	Br [▼]		
						PBBs	PBDEs	
56	Transparent glass	BL	BL	BL	BL	BL	BL	2021-05-27
57	Black plastic shell	BL	BL	BL	BL	BL	BL	2021-05-27
58	Golden metal wire	BL	BL	BL	BL	/	/	2021-05-27
59	Black printed plastic sticker	BL	BL	BL	BL	BL	BL	2021-05-27
60	Black plastic frame	BL	BL	BL	BL	BL	BL	2021-05-27
61	Silver metal sheet	BL	BL	BL	BL	/	/	2021-05-27
62	White plastic label	BL	BL	BL	BL	BL	BL	2021-05-27
63	Yellow plastic line	BL	BL	BL	BL	BL	BL	2021-05-27
64	Black plastic soft glue	BL	BL	BL	BL	BL	BL	2021-05-27
65	Silver metal screw (small)	BL	BL	BL	BL	/	/	2021-05-27
66	magnet	BL	BL	BL	BL	/	/	2021-05-27
67	Silver metal frame	BL	BL	BL	BL	/	/	2021-05-27
68	Black plastic sheet	BL	BL	BL	BL	BL	BL	2021-05-27
69	Silver metal sheet	BL	BL	BL	BL	/	/	2021-05-27
70	Black plastic frame	BL	BL	BL	BL	BL	BL	2021-05-27
71	Silver metal sheet	BL	BL	BL	BL	/	/	2021-05-27
72	Golden metal ring	BL	BL	BL	BL	/	/	2021-05-27
73	Silver metal interface	BL	BL	BL	BL	/	/	2021-05-27
74	Blue plastic board	BL	BL	BL	BL	BL	BL	2021-05-27
75	Golden metal pins	BL	BL	BL	BL	/	/	2021-05-27
76	Silver metal body	BL	BL	BL	BL	/	/	2021-05-27
77	Black diode	BL	BL	BL	BL	BL	BL	2021-05-27
78	Black triode	BL	BL	BL	BL	BL	BL	2021-05-27
79	Gold metal buckle	BL	BL	BL	BL	/	/	2021-05-27
80	Yellow line	BL	BL	BL	BL	BL	BL	2021-05-27
81	Golden metal needle	BL	BL	BL	BL	/	/	2021-05-27
82	Black plastic strip	BL	BL	BL	BL	BL	BL	2021-05-27
83	Black plastic soft sticker	BL	BL	BL	BL	BL	BL	2021-05-27
84	Golden metal nails	BL	BL	BL	BL	/	/	2021-05-27
85	Gray plastic soft glue	BL	BL	BL	BL	BL	BL	2021-05-27



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		Cd	Pb	Hg	Cr ^Ⅵ	Br ^Ⅶ		
						PBBs	PBDEs	
86	Black metal screws	BL	BL	BL	BL	/	/	2021-05-27
87	Transparent body	BL	BL	BL	BL	BL	BL	2021-05-27
88	Silver metal ring	BL	BL	BL	BL	/	/	2021-05-27
89	Silver black metal feet	BL	BL	BL	BL	/	/	2021-05-27
90	Golden metal ring	BL	BL	BL	BL	/	/	2021-05-27
91	Blue soft glue	BL	BL	BL	BL	BL	BL	2021-05-27
92	Yellow plastic line	BL	BL	BL	BL	BL	BL	2021-05-27
93	Black plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
94	Black metal plate	BL	BL	BL	BL	/	/	2021-05-27
95	White metal sheet	BL	BL	BL	BL	/	/	2021-05-27
96	Gold and silver metal pieces	BL	BL	BL	BL	/	/	2021-05-27
97	Black plastic frame	BL	BL	BL	BL	BL	BL	2021-05-27
98	Black plastic button	BL	BL	BL	BL	BL	BL	2021-05-27
99	Transparent glass	BL	BL	BL	BL	BL	BL	2021-05-27
100	Black diode	BL	BL	BL	BL	BL	BL	2021-05-27
101	Black printed ceramic body	BL	BL	BL	BL	BL	BL	2021-05-27
102	Black triode	BL	BL	BL	BL	BL	BL	2021-05-27
103	Black ceramic body	BL	BL	BL	BL	BL	BL	2021-05-27
104	Golden metal needle	BL	BL	BL	BL	/	/	2021-05-27
105	Black ceramic strip	BL	BL	BL	BL	BL	BL	2021-05-27
106	Golden metal feet	BL	BL	BL	BL	/	/	2021-05-27
107	Silver metal plate	BL	BL	BL	BL	/	/	2021-05-27
108	Silver body	BL	BL	BL	BL	/	/	2021-05-27
109	Blue ceramic body	BL	BL	BL	BL	BL	BL	2021-05-27
110	Black plastic frame	BL	BL	BL	BL	BL	BL	2021-05-27
111	Silver metal interface	BL	BL	BL	BL	/	/	2021-05-27
112	Black plastic wire sheath	BL	BL	BL	BL	BL	BL	2021-05-27
113	Silver plastic leather	BL	BL	BL	BL	BL	BL	2021-05-27
114	Silver metal wire	BL	BL	BL	BL	/	/	2021-05-27
115	Gray plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27



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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^Ⅵ	Br ^Ⅶ		
						PBBs	PBDEs	
116	Yellow plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
117	Black plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
118	Red plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
119	Silver metal wire	BL	BL	BL	BL	/	/	2021-05-27
120	Green plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
121	Blue plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
122	Silver plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
123	Red plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
124	Blue plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
125	Gray plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
126	Silver metal wire	BL	BL	BL	BL	/	/	2021-05-27
127	White plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
128	Green plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
129	Yellow plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
130	Orange plastic thread	BL	BL	BL	BL	BL	BL	2021-05-27
131	Silver metal sheet	BL	BL	BL	BL	/	/	2021-05-27
132	Gold metal flakes	BL	BL	BL	BL	/	/	2021-05-27
133	Transparent plastic glue	BL	BL	BL	BL	BL	BL	2021-05-27
134	Silver metal needle	BL	BL	BL	BL	/	/	2021-05-27
135	Silver metal sheet	BL	BL	BL	BL	/	/	2021-05-27
136	White plastic glue	BL	BL	BL	BL	BL	BL	2021-05-27
137	Silver metal screw (small)	BL	BL	BL	BL	/	/	2021-05-27
138	Silver metal pins	BL	BL	BL	BL	/	/	2021-05-27
139	Solder	BL	BL	BL	BL	/	/	2021-05-27
140	Black plastic board	BL	BL	BL	BL	BL	BL	2021-05-27
141	White plastic sheet	BL	BL	BL	BL	BL	BL	2021-05-27
142	Black plastic sticker	BL	BL	BL	BL	BL	BL	2021-05-27
143	Black diode	BL	BL	BL	BL	BL	BL	2021-05-27
144	Yellow plastic tape	BL	BL	BL	BL	BL	BL	2021-05-27
145	Black plastic frame	BL	BL	BL	BL	BL	BL	2021-05-27



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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^Ⅵ	Br ^Ⅱ		
						PBBs	PBDEs	
146	Golden metal wire	BL	BL	BL	BL	/	/	2021-05-27
147	Black ceramic	BL	BL	BL	BL	BL	BL	2021-05-27
148	Silver metal pins	BL	BL	BL	BL	/	/	2021-05-27
149	Red plastic thread	BL	BL	BL	BL	X	X	2021-05-27
150	Silver metal wire	BL	X	BL	BL	/	/	2021-05-27
151	Silver metal feet	BL	BL	BL	BL	/	/	2021-05-27
152	Color ring resistance	BL	BL	BL	BL	BL	BL	2021-05-27
153	Black PCB board	BL	BL	BL	BL	BL	BL	2021-05-27
154	Brown plastic case	BL	BL	BL	BL	BL	BL	2021-05-27
155	Silver metal case	BL	BL	BL	BL	/	/	2021-05-27
156	Black plastic cap	BL	BL	BL	BL	BL	BL	2021-05-27
157	Silver metal pins	BL	BL	BL	BL	/	/	2021-05-27
158	Brown wet paper	BL	BL	BL	BL	BL	BL	2021-05-27
159	Silver metal film	BL	BL	BL	BL	/	/	2021-05-27
160	Gray metal film	BL	BL	BL	BL	/	/	2021-05-27
161	Soft white plastic	BL	BL	BL	BL	BL	BL	2021-05-27
162	Solder	BL	BL	BL	BL	/	/	2021-05-27
163	Ferrous metal sheet	BL	BL	BL	BL	/	/	2021-05-27
164	Black ceramic body	BL	BL	BL	BL	BL	BL	2021-05-27
165	Brown metal body	BL	BL	BL	BL	/	/	2021-05-27
166	Black ceramic	BL	BL	BL	BL	BL	BL	2021-05-27
167	Silver metal pins	BL	BL	BL	BL	/	/	2021-05-27
168	White ceramic body	BL	BL	BL	BL	BL	BL	2021-05-27



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Note:

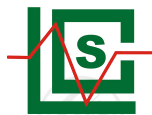
- (1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 70 - 3\sigma < X < 130 + 3\sigma \leq OL$	$BL \leq 50 - 3\sigma < X < 150 + 3\sigma \leq OL$
Pb	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Hg	mg/kg	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 700 - 3\sigma < X < 1300 + 3\sigma \leq OL$	$BL \leq 500 - 3\sigma < X < 1500 + 3\sigma \leq OL$
Cr	mg/kg	$BL \leq 700 - 3\sigma < X$	$BL \leq 700 - 3\sigma < X$	$BL \leq 500 - 3\sigma < X$
Br	mg/kg	$BL \leq 300 - 3\sigma < X$	--	$BL \leq 250 - 3\sigma < X$

Note:

BL = Below Limit
OL = Over Limit
X = Inconclusive

- (2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
- (3) The maximum permissible limit is quoted from the document 2015/863/EC amending RoHS directive 2011/65/EU:
- (4) ▼ =For restricted substances PBBs and PBDEs, the results show the total Br content; The restricted substance was Cr(VI), and the results showed the total Cr content



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RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)
Cadmium (Cd)	100
Lead (Pb)	1000
Mercury (Hg)	1000
Hexavalent Chromium (Cr(VI))	1000
Polybrominated biphenyls (PBBs)	1000
Polybrominated diphenylethers (PBDEs)	1000
Dibutyl Phthalate(DBP)	1000
Benzylbutyl Phthalate(BBP)	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	1000
Diisobutyl phthalate(DIBP)	1000

Disclaimers:

This XRF Screening report is for reference purposes only. The applicant shall make its/his/her own judgment as to whether the information provided in this XRF screening report is sufficient for its/his/her purposes.

The result shown in this XRF screening report will differ based on various factors, including but not limited to, the sample size, thickness, area, surface flatness, equipment parameters and matrix effect (e.g. plastic, rubber, metal, glass, ceramic etc.). Further wet chemical pre-treatment with relevant chemical equipment analysis are required to obtain quantitative data.



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B. EU RoHS Directive 2011/65/EU and its amendment Directives 2015/863/EU on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, DBP, BBP, DEHP, DIBP content.

Test method:

Lead(Pb) & Cadmium(Cd) Content:

With reference to IEC 62321-5:2013, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Mercury(Hg) Content:

With reference to IEC 62321-4:2013+AMD1:2017 CSV, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-OES)

Hexavalent Chromium(Cr(VI)) Content:

With reference to IEC 62321-7-1:2015 or IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

BBP DBP DEHP & DIBP Content:

With reference to IEC 62321-8:2017, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

1) The test results of Lead (Pb) and Cadmium (Cd)

Item	Unit	MDL	Results	Limit
			(150)	
Lead Content (Pb)	mg/kg	5	N.D.	1000



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Note:

- MDL = Method Detection Limit
- /= Not apply
- LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is 0.10 $\mu\text{g}/\text{cm}^2$
- ▼ = a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than 0.13 $\mu\text{g}/\text{cm}^2$. The sample coating is considered to contain Cr(VI)
b. The sample is negative for Cr(VI) if Cr(VI) is N.D.(concentration less than 0.10 $\mu\text{g}/\text{cm}^2$). The sample coating is considered a non- Cr(VI) based coating
c. The result between 0.10 $\mu\text{g}/\text{cm}^2$ and 0.13 $\mu\text{g}/\text{cm}^2$ is considered to be inconclusive, unavoidable coating variations may influence the determination
- Information on storage conditions and production date of the tested samples is unavailable and thus Cr(VI) results represent status of the sample at the time of testing
- mg/kg = ppm=parts per million
- N.D.=Not Detected(<MDL or LOQ)

- #1 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in glass of cathode ray tubes, electronic components and fluorescent tubes.
- #2 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in electronic ceramic parts (e.g. piezoelectronic devices).
- #3 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Copper containing up to 4% (40000ppm) by weight.
- #4 According to RoHS directive 2011/65/EU and its amendments, Lead is exempted in high melting temperature type solders (i.e. lead-based alloys containing 85 % by weight or more lead).
- #5 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its amendments, Lead is exempted as an alloying element in Aluminum containing up to 0.4% (4000ppm) by weight.
- #6 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its amendments, Cadmium and its compounds in electrical contact is exempted.
- #7 According to the statement provided by the customer, according to RoHS directive 2011/65/EU and its Amendments, Lead is exempted in steel for machining purposes and in galvanised steel containing up to 0.35% (3500ppm) by weight.

2) The test results of DBP、BBP、DEHP & DIBP

Item	Unit	MDL	Results	Limit
			1+2+3+4+8+9	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000



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Item	Unit	MDL	Results	Limit
			10+11+12+15+16+17	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			19+20+22+24+26+29	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			30+34+35+36+38+41	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			43+46+47+48+50+51	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000



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Item	Unit	MDL	Results	Limit
			52+53+55+56+57+59	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			60+62+63+64+68+70	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			74+77+78+80+82+83	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			85+87+91+92+93+97	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000



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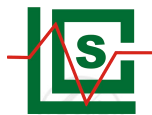
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Item	Unit	MDL	Results	Limit
			100+101+102+103+105+109	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			110+112+113+115+116+117	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			118+120+121+122+123+124	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			125+127+128+129+130+133	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000



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Item	Unit	MDL	Results	Limit
			136+140+141+142+143+144	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			145+147+149+152+153+154	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000

Item	Unit	MDL	Results	Limit
			156+158+161+164+166+168	
Dibutyl Phthalate(DBP)	mg/kg	600	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	600	N.D.	1000
Di-(2-ethylhexyl) Phthalate(DEHP)	mg/kg	600	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	600	N.D.	1000



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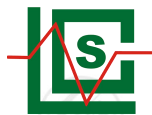
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3) The test results of PBBs & PBDEs

Item	Unit	MDL	Results	Limit
			(149)	
Polybrominated Biphenyls (PBBs)				
Monobromobiphenyl	mg/kg	5	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	
Total content	mg/kg	/	N.D.	1000
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)				
Monobromodiphenyl ether	mg/kg	5	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	
Total content	mg/kg	/	N.D.	1000

Remark:

- mg/kg = ppm
- N.D. = Not detected
- MDL=Method detected limited
- Flow chart appendix is included
- Photo appendix is included.



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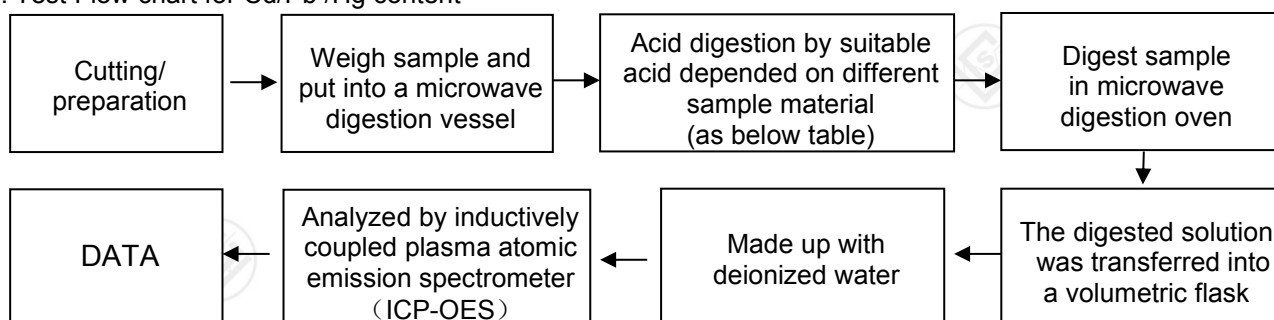
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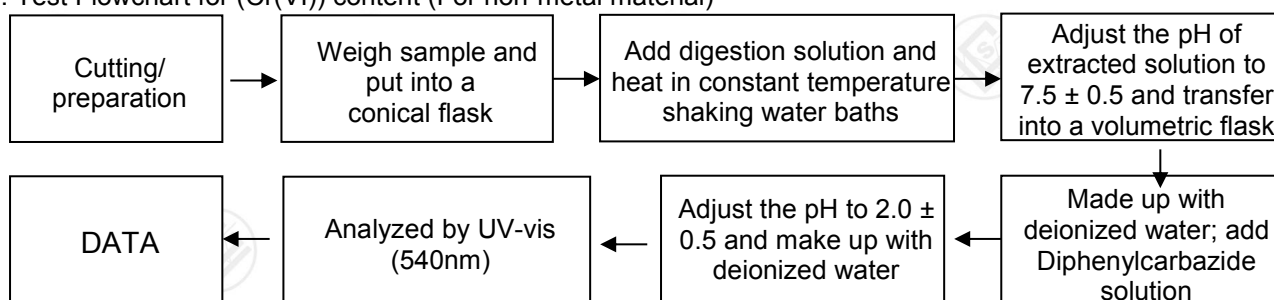
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Appendix

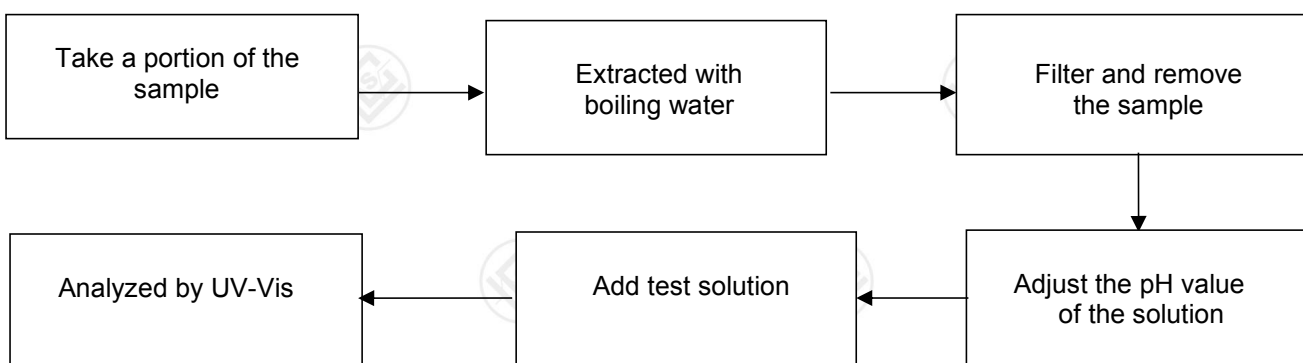
1. Test Flow chart for Cd/Pb /Hg content



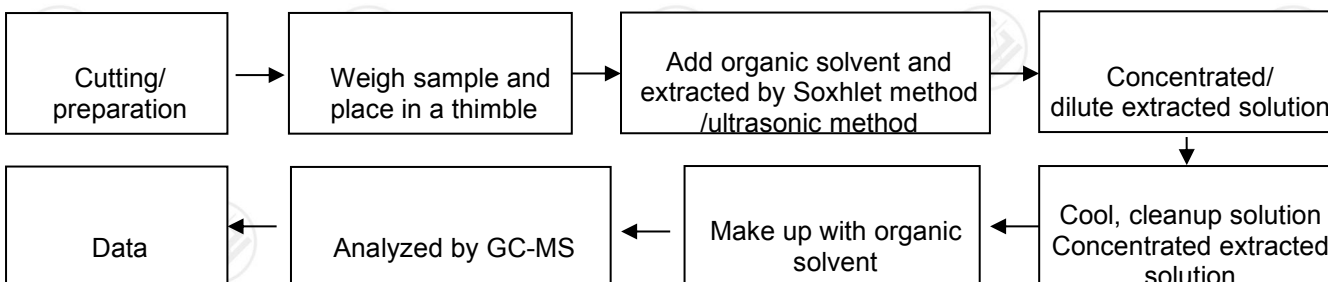
2. Test Flowchart for (Cr(VI)) content (For non-metal material)



Test Flowchart for (Cr(VI)) content (For metal material)



3. Test Flow chart for PBBs & PBDEs & DBP & BBP & DEHP & DIBP content





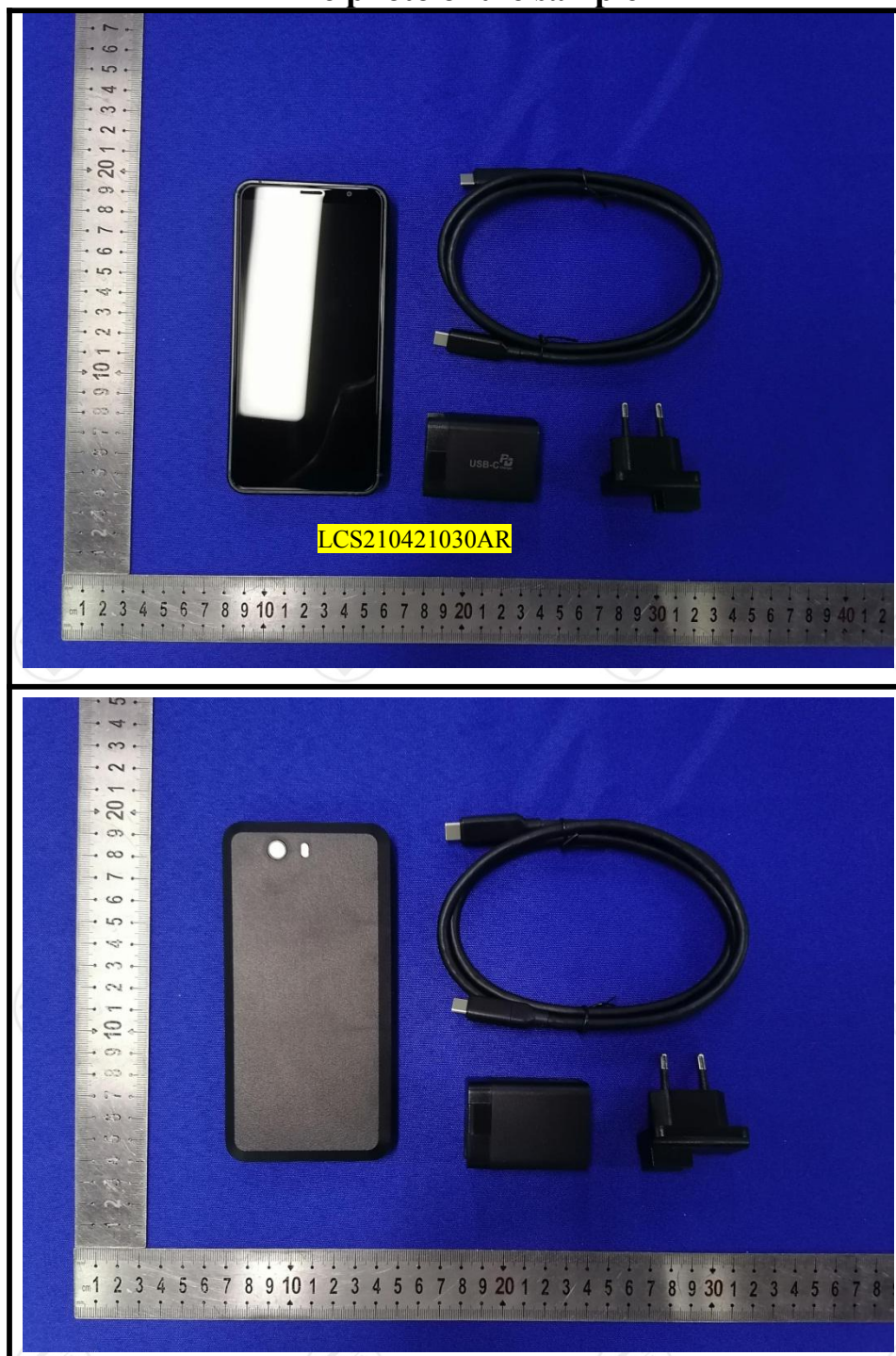
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The photo of the sample



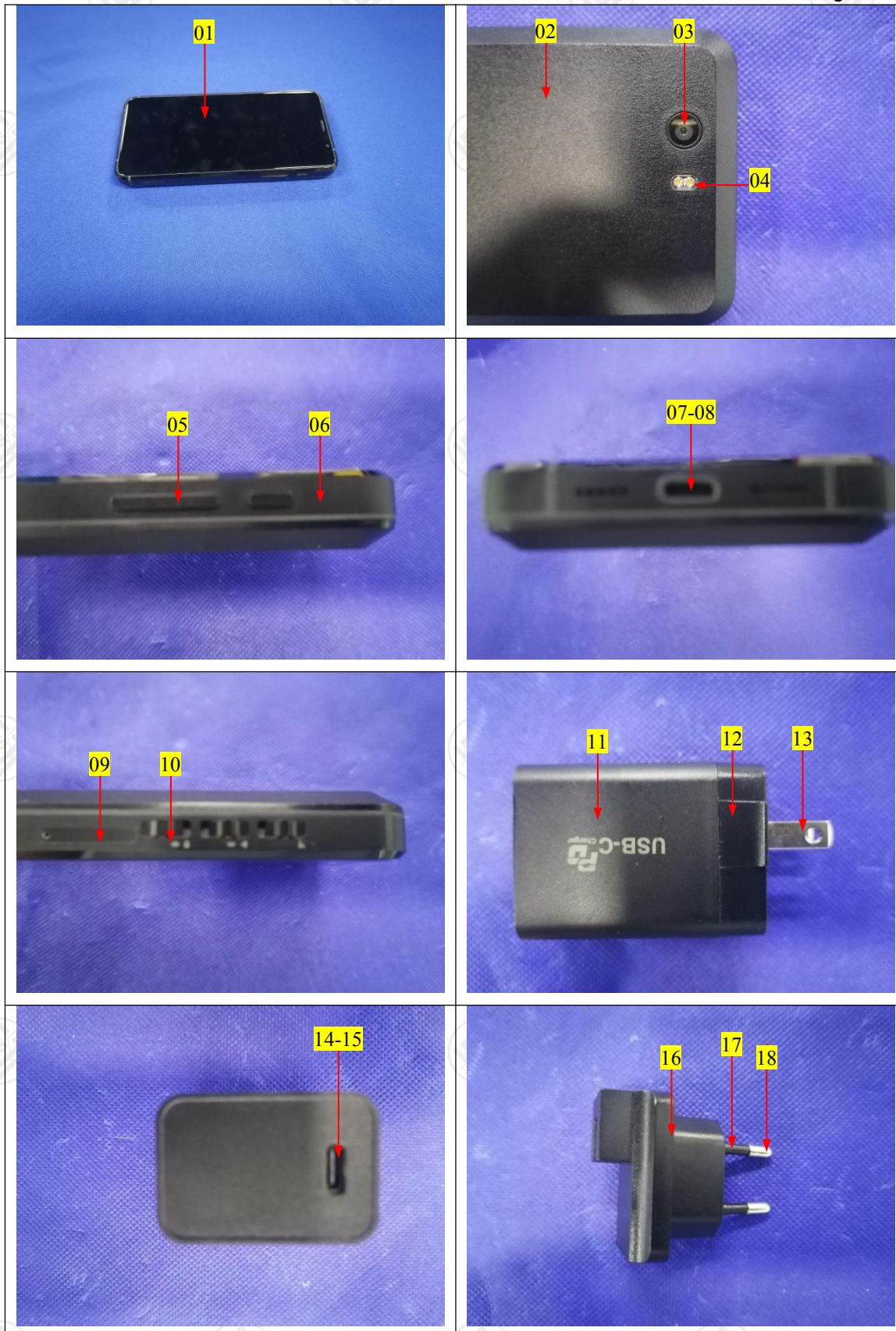


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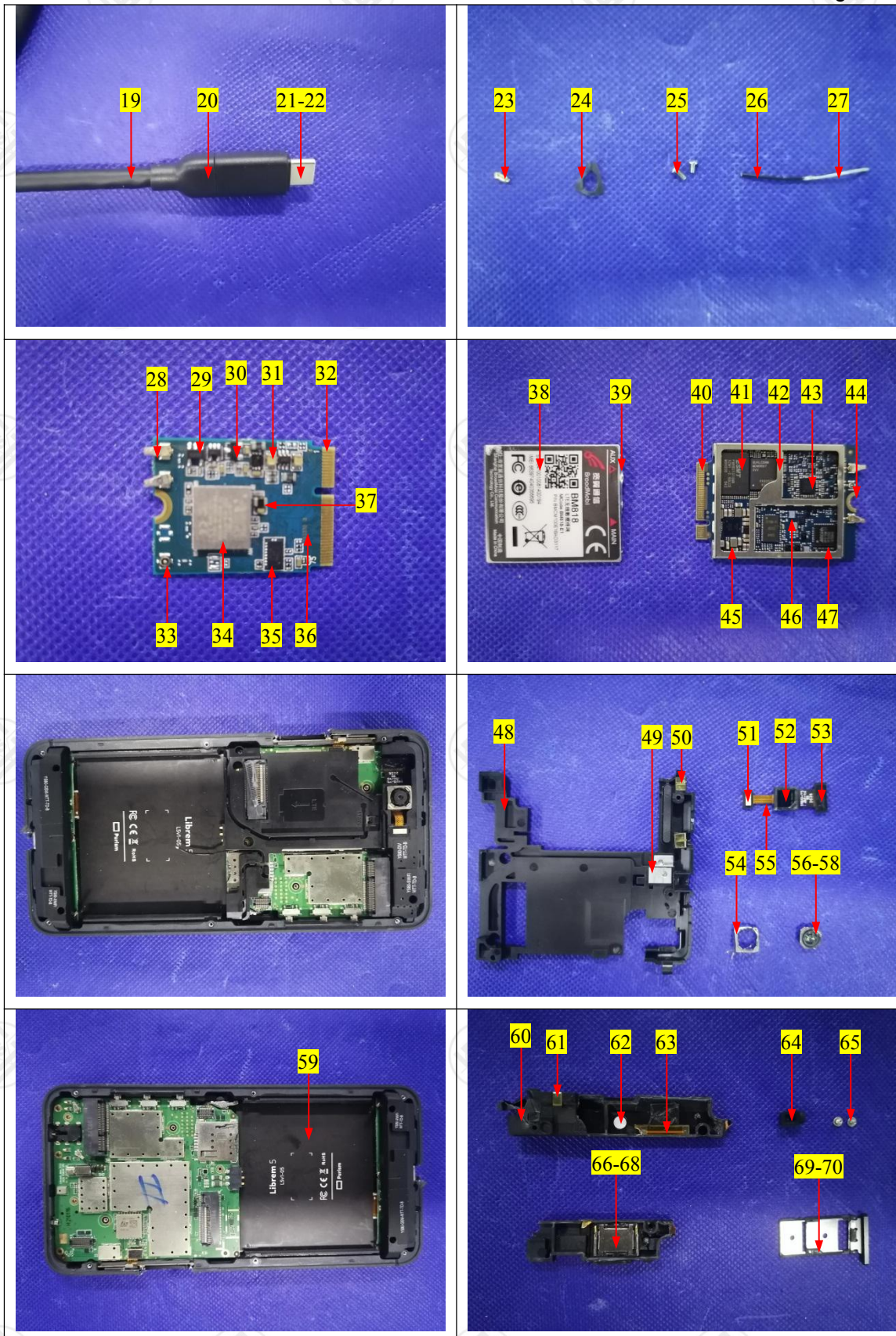


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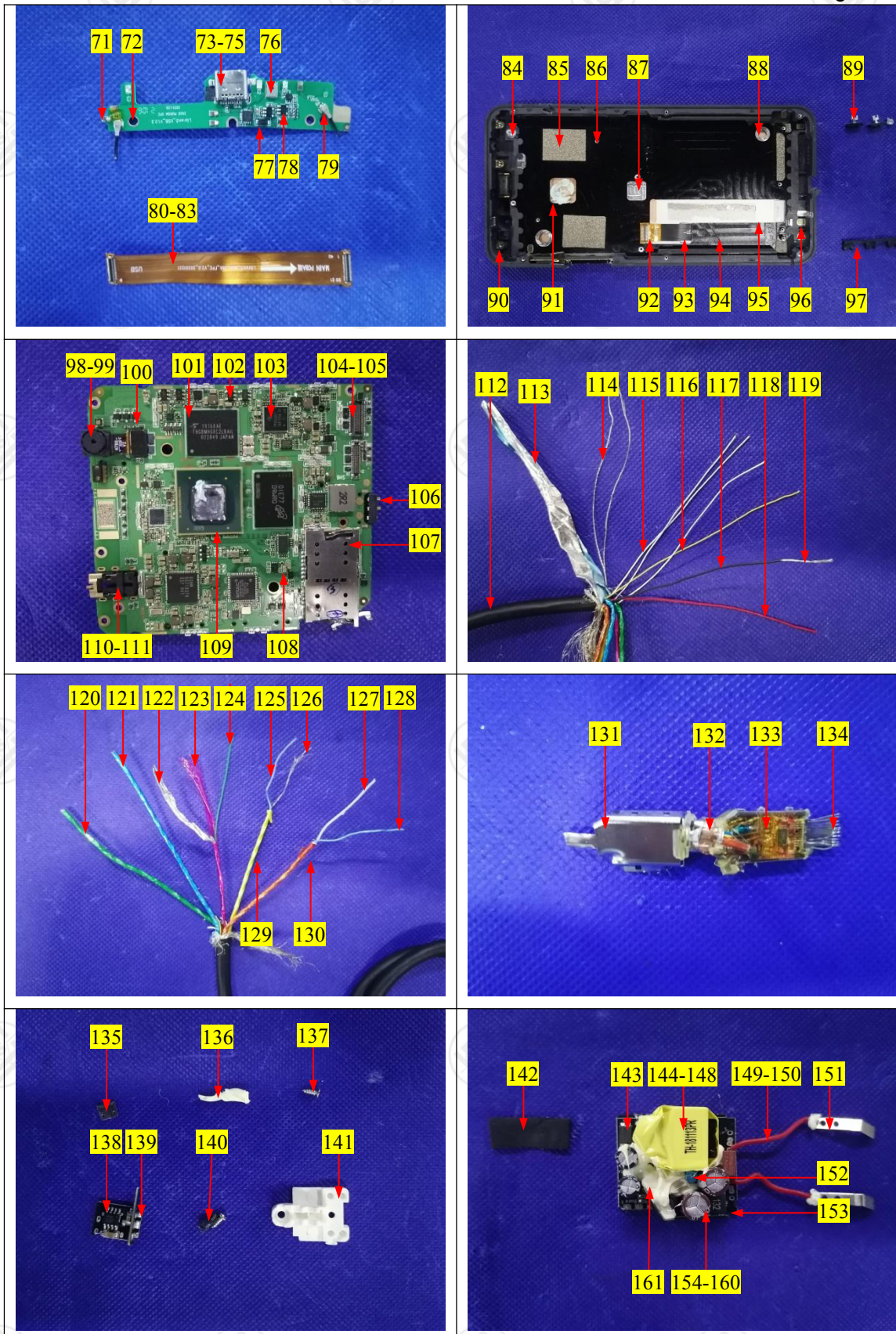


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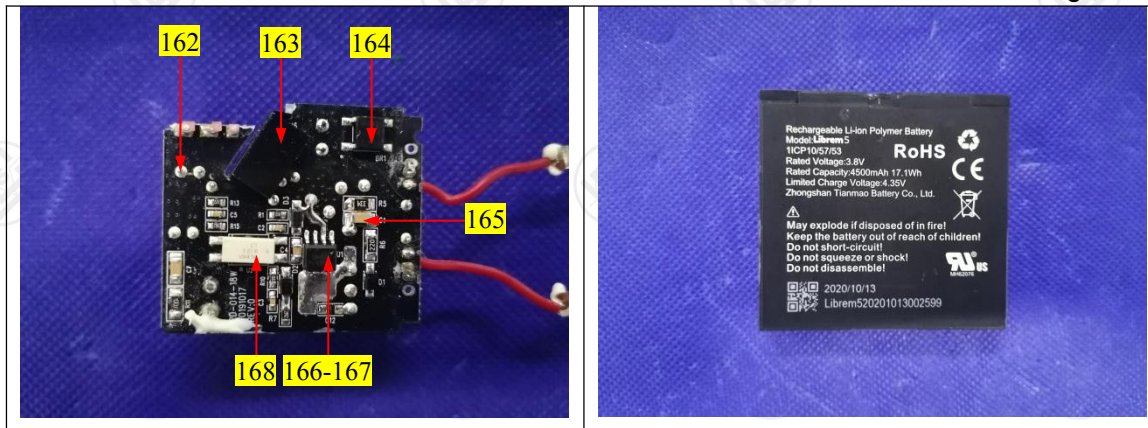


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LCS authenticate the photo on original report only

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