

TEST REPORT

Report No.: LCS190814016AR

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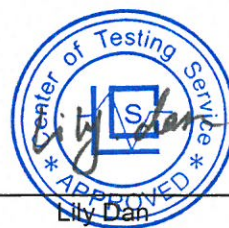
Applicant : Shenzhen Wesion Technology Co., Ltd.
Address : A#511, Mingyou Purchasing Center, Baoyuan Rd., Xixiang St., Bao'an Dis.,
Shenzhen, China.

Report on the submitted samples said to be:

Sample Name : VIM3
Trade Mark : Khadas
Client's information : N/A
Style No. : VIM3 Basic, VIM3 Pro, VIM3L
Testing Period : August 09, 2019 ~ August 29, 2019
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, Cadmium, Mercury, Hexavalent Chromium, PBBs, PBDEs, Dibutyl Phthalate(DBP), Benzylbutyl Phthalate(BBP), Bis(2-ethylhexyl) Phthalate(DEHP), Diisobutyl phthalate(DIBP) content comply with the limit 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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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 ^Ⅶ		
						PBBs	PBDEs	
1	White printed black PCB board (card box, ANT-V-B01)	BL	BL	OL	X	X	X	2019-08-15
2	White printed black PCB board (card box, ANT-V-A01)	BL	BL	BL	X	X	X	2019-08-15
3	Silver solder (card box)	BL	OL	BL	BL	/	/	2019-08-15
4	Black plastic fixings (card box, thread)	BL	BL	BL	BL	X	X	2019-08-15
5	Copper metal frame (card box, thread)	BL	BL	BL	BL	/	/	2019-08-15
6	Black soft plastic outer skin (card box, line)	OL	BL	BL	X	BL	BL	2019-08-15
7	Silver metal outsourcing wire (card box, line)	BL	BL	BL	BL	/	/	2019-08-15
8	Translucent soft plastic wire (card box, wire)	BL	BL	BL	X	BL	BL	2019-08-15
9	Silver metal wire (card box, line)	BL	BL	BL	BL	/	/	2019-08-15
10	Black body (card box, PCB)	BL	BL	BL	BL	BL	BL	2019-08-15
11	Silver metal frame (card box, PCB, USB interface)	BL	BL	BL	X	/	/	2019-08-15
12	Silver metal pin (card box, PCB, USB interface)	BL	BL	BL	BL	/	/	2019-08-15
13	Black plastic fixings (card box, PCB, USB interface)	BL	BL	BL	BL	BL	BL	2019-08-15
14	Silver metal plate (card box, PCB, USB interface)	BL	BL	BL	BL	/	/	2019-08-15
15	Copper metal plate (card box, PCB, USB interface)	BL	BL	BL	BL	/	/	2019-08-15
16	Silver metal case (card box, PCB, USB2 interface)	BL	BL	BL	X	/	/	2019-08-15
17	Black plastic fixings (card box, PCB, USB2 interface)	BL	BL	BL	BL	BL	BL	2019-08-15
18	Silver metal plate (card box, PCB, USB2 interface)	BL	BL	BL	X	/	/	2019-08-15

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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^Ⅵ	Br ^Ⅶ		
						PBBs	PBDEs	
19	Silver metal pin (card box, PCB, USB2 interface)	OL	BL	BL	BL	/	/	2019-08-15
20	Silver metal frame (card box, PCB, USB3 interface)	OL	BL	BL	BL	/	/	2019-08-15
21	Black plastic fixings (card box, PCB, USB3 interface)	BL	BL	BL	X	X	X	2019-08-15
22	Copper metal needle (card box, PCB, USB3 interface)	BL	BL	BL	BL	/	/	2019-08-15
23	Silver metal case (card box, PCB, USB4 interface)	OL	BL	BL	BL	/	/	2019-08-15
24	Black plastic frame (card box, PCB, USB4 interface)	BL	BL	BL	X	BL	BL	2019-08-15
25	Copper metal needle (card box, PCB, USB4 interface)	BL	BL	BL	BL	/	/	2019-08-15
26	White plastic frame (card box, connector)	BL	BL	OL	X	X	X	2019-08-15
27	Silver metal needle (card box, connector)	BL	BL	BL	BL	/	/	2019-08-15
28	White plastic frame (card box, switch)	BL	BL	BL	BL	BL	BL	2019-08-15
29	Silver metal fixture (card box, switch)	BL	BL	BL	BL	/	/	2019-08-15
30	Black plastic switch (card box, switch)	BL	BL	BL	X	X	X	2019-08-15
31	Silver metal plate (card box, switch)	BL	BL	BL	X	/	/	2019-08-15
32	Silver metal needle (card box, switch)	BL	BL	BL	BL	/	/	2019-08-15
33	Copper metal frame (card box, wiring)	BL	BL	BL	BL	/	/	2019-08-15
34	White plastic fixings (card box, wiring)	BL	BL	BL	BL	BL	BL	2019-08-15
35	Black body (card box, PCB)	BL	BL	BL	BL	BL	BL	2019-08-15
36	White printed silver metal case (card box, PCB)	BL	BL	BL	BL	/	/	2019-08-15
37	Green PCB board (card box, PCB)	BL	BL	BL	X	BL	BL	2019-08-15

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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ^{VI}		
						PBBs	PBDEs	
38	Silver metal needle (card box, PCB)	BL	BL	BL	BL	/	/	2019-08-15
39	Black plastic fixture (card box, PCB)	BL	BL	BL	BL	X	X	2019-08-15
40	Black body (card box, PCB)	BL	BL	BL	BL	BL	BL	2019-08-15
41	Black body (card box, PCB)	BL	BL	OL	BL	BL	BL	2019-08-15
42	Black plastic case (card box, PCB, inductor)	BL	BL	BL	X	BL	BL	2019-08-15
43	Black core (card box, PCB, inductor)	BL	BL	BL	BL	BL	BL	2019-08-15
44	Blue enameled wire (card box, PCB, inductor)	BL	OL	BL	BL	/	/	2019-08-15
45	Copper metal wire (card box, PCB, inductor)	BL	OL	BL	BL	/	/	2019-08-15
46	Red enameled wire (card box, PCB, inductor)	BL	OL	BL	BL	/	/	2019-08-15
47	Green enameled wire (card box, PCB, inductor)	BL	OL	BL	BL	/	/	2019-08-15
48	Yellow body (card box, PCB)	BL	BL	BL	X	BL	BL	2019-08-15
49	Black body (card box, PCB)	BL	BL	BL	X	BL	BL	2019-08-15
50	Gray body (card box, PCB)	BL	BL	BL	X	BL	BL	2019-08-15
51	Black body (card box, PCB)	BL	BL	BL	BL	BL	BL	2019-08-15
52	Black body (card box, PCB)	BL	BL	BL	X	BL	BL	2019-08-15
53	Silver metal crystal (card box, PCB)	BL	BL	BL	BL	/	/	2019-08-15
54	Black body (card box, PCB)	BL	OL	BL	X	BL	BL	2019-08-15
55	Black body (card box, PCB)	BL	BL	BL	BL	BL	BL	2019-08-15
39	Black plastic fixture (card box, PCB)	BL	BL	BL	BL	X	X	2019-08-15
40	Black body (card box, PCB)	BL	BL	BL	BL	BL	BL	2019-08-15
56	Black body (card box, PCB)	BL	BL	BL	X	BL	BL	2019-08-15

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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ^{VI}		
						PBBs	PBDEs	
57	Black body (card box, PCB)	BL	BL	BL	X	BL	BL	2019-08-15
58	Black plastic frame (card box, PCB, wiring slot)	OL	OL	BL	BL	BL	BL	2019-08-15
59	Copper metal sheet (card box, PCB, wiring slot)	BL	BL	BL	BL	/	/	2019-08-15
60	Black printed silver metal case (card box, PCB, card slot)	BL	BL	BL	X	/	/	2019-08-15
61	Silver metal spring (card box, PCB, card slot)	BL	BL	BL	BL	/	/	2019-08-15
62	Copper metal shrapnel (card box, PCB, card slot)	BL	BL	BL	BL	/	/	2019-08-15
63	Copper metal needle (card box, PCB, card slot)	BL	BL	BL	X	/	/	2019-08-15
64	Silver metal plate (card box, PCB, card slot)	BL	BL	BL	BL	/	/	2019-08-15
65	Copper metal sheet (card box, PCB, card slot)	BL	BL	BL	BL	/	/	2019-08-15
66	Yellow soft plastic adhesive (card box, PCB)	OL	BL	BL	X	BL	BL	2019-08-15
67	Silver metal round mouth (card box, PCB)	BL	OL	BL	BL	/	/	2019-08-15
68	Black plastic frame (card box, PCB, large wiring slot)	BL	BL	BL	X	BL	BL	2019-08-15
69	Silver metal needle (card box, PCB, large wiring slot)	BL	BL	BL	BL	/	/	2019-08-15
70	Black plastic frame (card box, PCB, small wiring slot)	BL	BL	BL	X	BL	BL	2019-08-15
71	Silver metal needle (card box, PCB, small wiring slot)	BL	BL	BL	BL	/	/	2019-08-15
72	Black body (card box, PCB)	BL	BL	BL	X	BL	BL	2019-08-15
73	Black body (card box, PCB)	BL	BL	BL	X	BL	BL	2019-08-15

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Seq. No.	Tested Part(s)	Results						Date of sample submission/resubmission
		Cd	Pb	Hg	Cr ^{VI}	Br ^{VI}		
						PBBs	PBDEs	
74	Black body (card box, PCB)	BL	BL	BL	X	BL	BL	2019-08-15
75	Brown chip capacitor (card box, PCB)	BL	BL	BL	X	BL	BL	2019-08-15
76	Black body (card box, PCB)	BL	BL	BL	X	BL	BL	2019-08-15
77	White printed black chip resistor (card box, PCB)	BL	OL	BL	X	BL	BL	2019-08-15
78	Black PCB board (card box)	BL	BL	BL	X	X	X	2019-08-15

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≤70-3σ<X<130+3σ≤OL	BL≤70-3σ<X<130+3σ≤OL	BL≤50-3σ<X<150+3σ≤OL
Pb	mg/kg	BL≤700-3σ<X<1300+3σ≤OL	BL≤700-3σ<X<1300+3σ≤OL	BL≤500-3σ<X<1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ<X<1300+3σ≤OL	BL≤700-3σ<X<1300+3σ≤OL	BL≤500-3σ<X<1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ<X	BL≤700-3σ<X	BL≤500-3σ<X
Br	mg/kg	BL≤300-3σ<X	--	BL≤250-3σ<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
Bis(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^{6+}) 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)

Item	Unit	MDL	Results	Limit
			(67)	
Lead Content (Pb)	mg/kg	2	23386 ^{#3}	1000

2) The test results of Hexavalent Chromium (Cr^{6+})(for nonmetal)

Item	Unit	MDL	Results			Limit
			(48)	(50)	(77)	
Hexavalent Chromium (Cr^{6+})	mg/kg	8	N.D.	N.D.	N.D.	1000

3) The test results of Hexavalent Chromium (Cr^{6+})(metal)

Item	Unit	MDL	Results				Limit
			(11)	(16)	(18)	(31)	
Hexavalent Chromium (Cr^{6+})	ug/cm ²	0.10	N.D.	N.D.	N.D.	N.D.	1000

Item	Unit	MDL	Results		Limit
			(60)	(63)	
Hexavalent Chromium (Cr^{6+})	ug/cm ²	0.10	N.D.	N.D.	1000



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Note:

- MDL = Method Detection Limit
 - /= Not apply
 - LOQ = Limit of Quantification, The LOQ of Hexavalent chromium is $0.10 \mu\text{g}/\text{cm}^2$
 - $\text{mg}/\text{kg} = \text{ppm} = \text{parts per million}$
 - N.D.=Not Detected(<MDL or LOQ)
 - *The sample is negative for Cr(VI)-The Cr(VI) concentration is below $0.10 \mu\text{g}/\text{cm}^2$
The coating is considered a non-Cr(VI) based coating.
- #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.
- Flow chart appendix is included.
 - Photo appendix is included.

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

Item	Unit	MDL	Results	Limit
			1+2+4+6+8+10	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	1000

Item	Unit	MDL	Results	Limit
			13+17+21+24+26+28	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	1000

Item	Unit	MDL	Results	Limit
			30+34+35+37+39+40	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	1000

Item	Unit	MDL	Results	Limit
			41+42+43+48+49+50	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	1000

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Item	Unit	MDL	Results	Limit
			51+52+54+55+56+57	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	1000

Item	Unit	MDL	Results	Limit
			58+66+70+72+73+74	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	1000

Item	Unit	MDL	Results	Limit
			68+75+76+77+78	
Dibutyl Phthalate(DBP)	mg/kg	50	N.D.	1000
Benzylbutyl Phthalate(BBP)	mg/kg	50	N.D.	1000
Bis(2-ethylhexyl) Phthalate(DEHP)	mg/kg	50	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	50	N.D.	1000

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5) The test results of PBBs & PBDEs

Item	Unit	MDL	Results					Limit
			(1)	(2)	(26)	(30)	(39)	
Polybrominated Biphenyls (PBBs)								
Monobromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromobiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Polybrominated Diphenylethers (PBDEs)(Mon-Deca)								
Monobromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Dibromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tribromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Tetrabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Pentabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Hexabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Heptabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Octabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Nonabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Decabromodiphenyl ether	mg/kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	
Total content	mg/kg	/	N.D.	N.D.	N.D.	N.D.	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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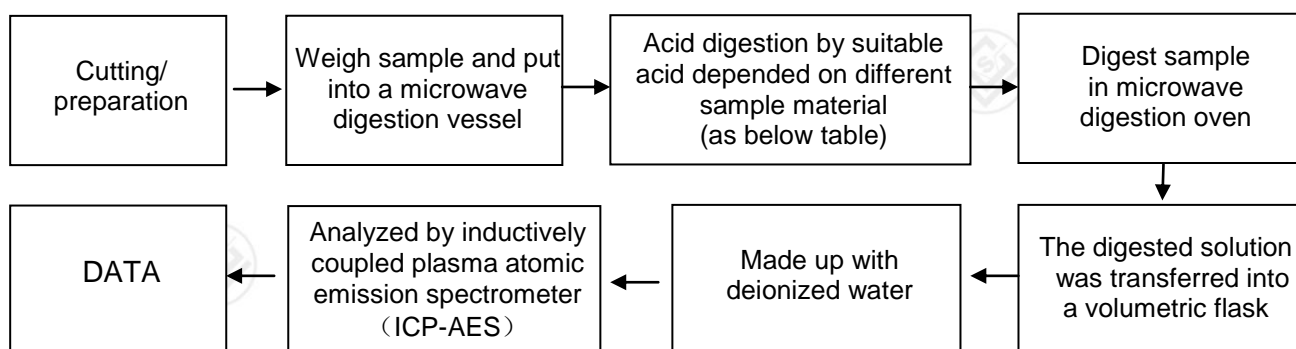
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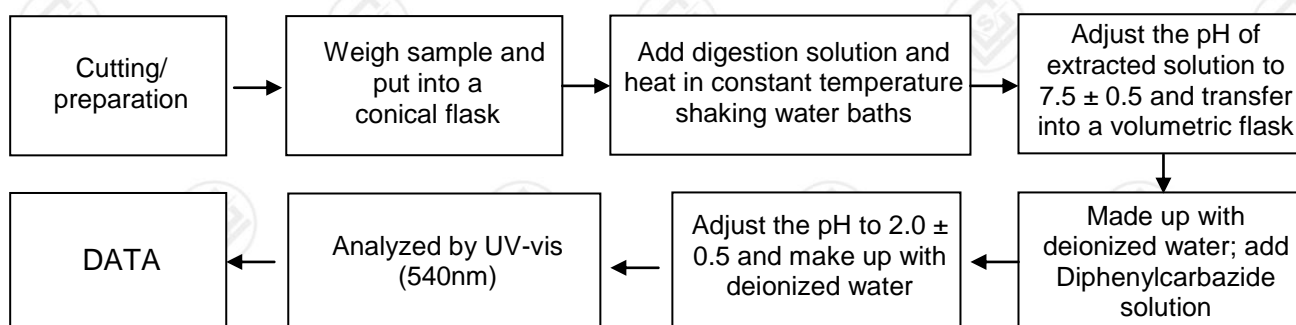
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Appendix

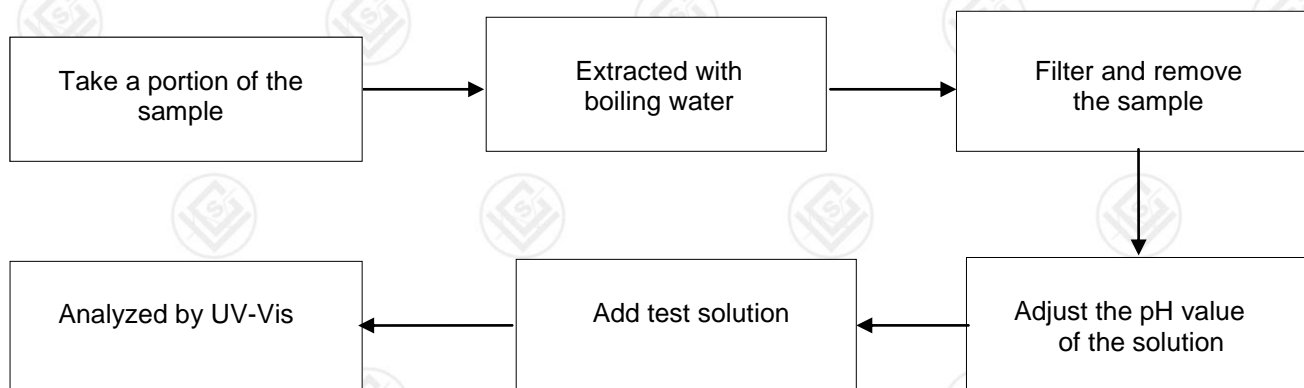
1. Test Flow chart for Cd/Pb /Hg content



2. Test Flowchart for Cr⁶⁺ content (For non-metal material)



Test Flowchart for Cr⁶⁺ content (For metal material)





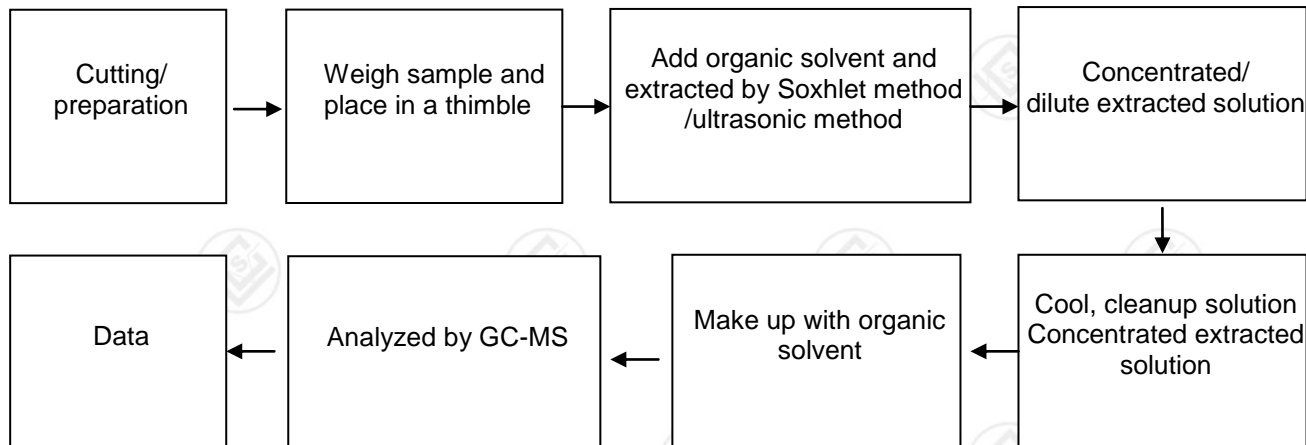
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3. Test Flow chart for PBBs & PBDEs & DBP & BBP & DEHP & DIBP content



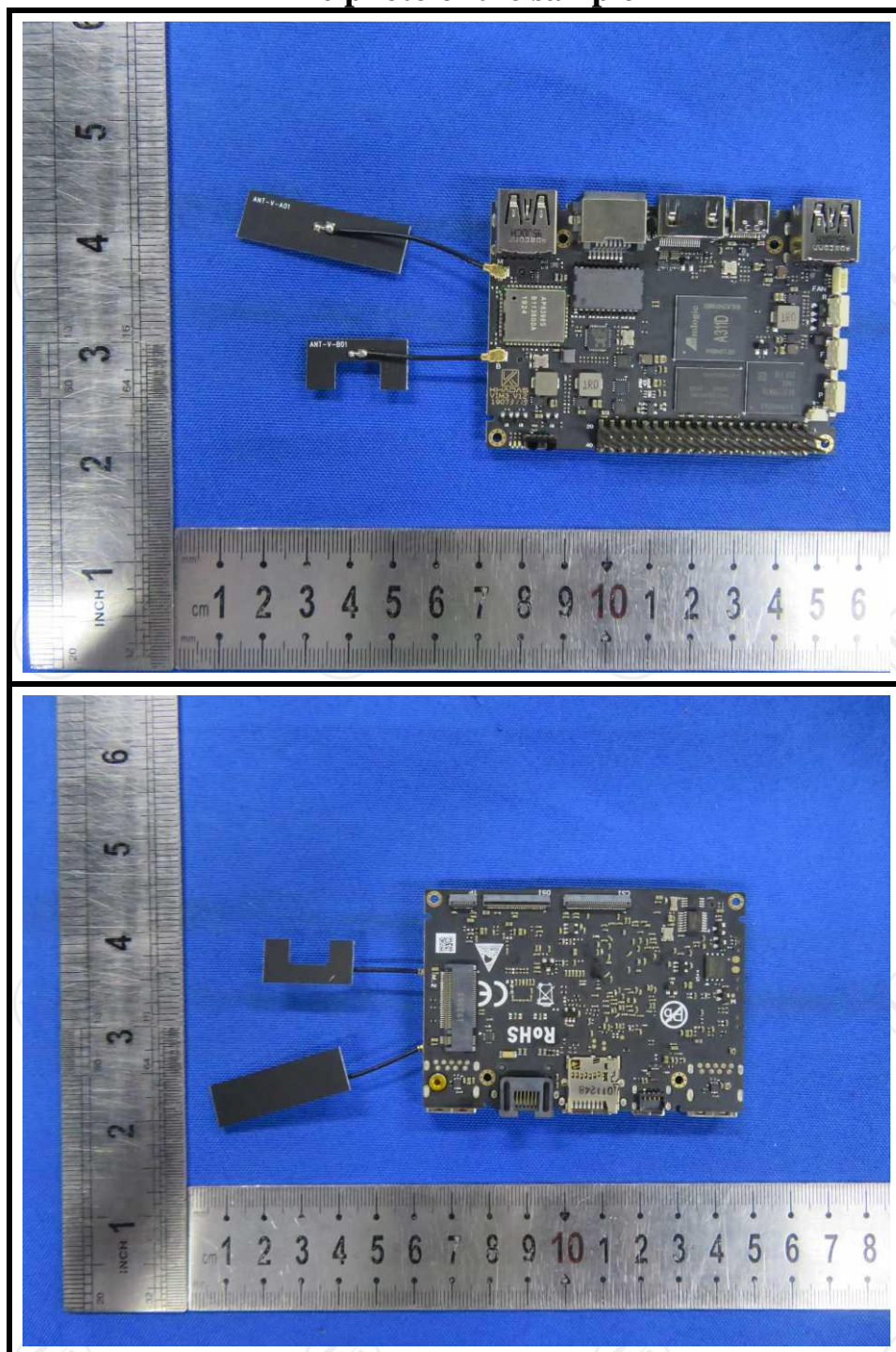
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The photo of the sample

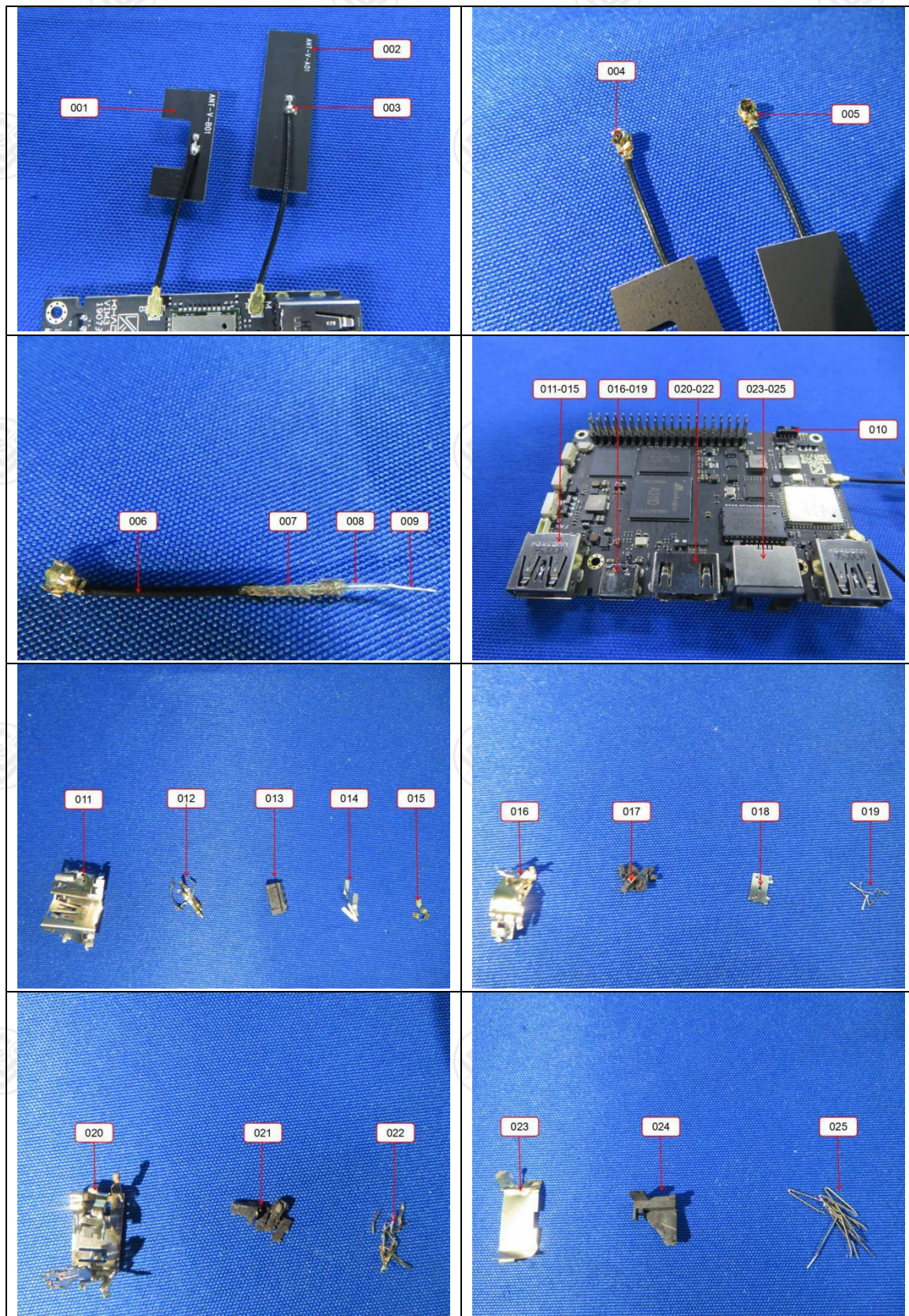


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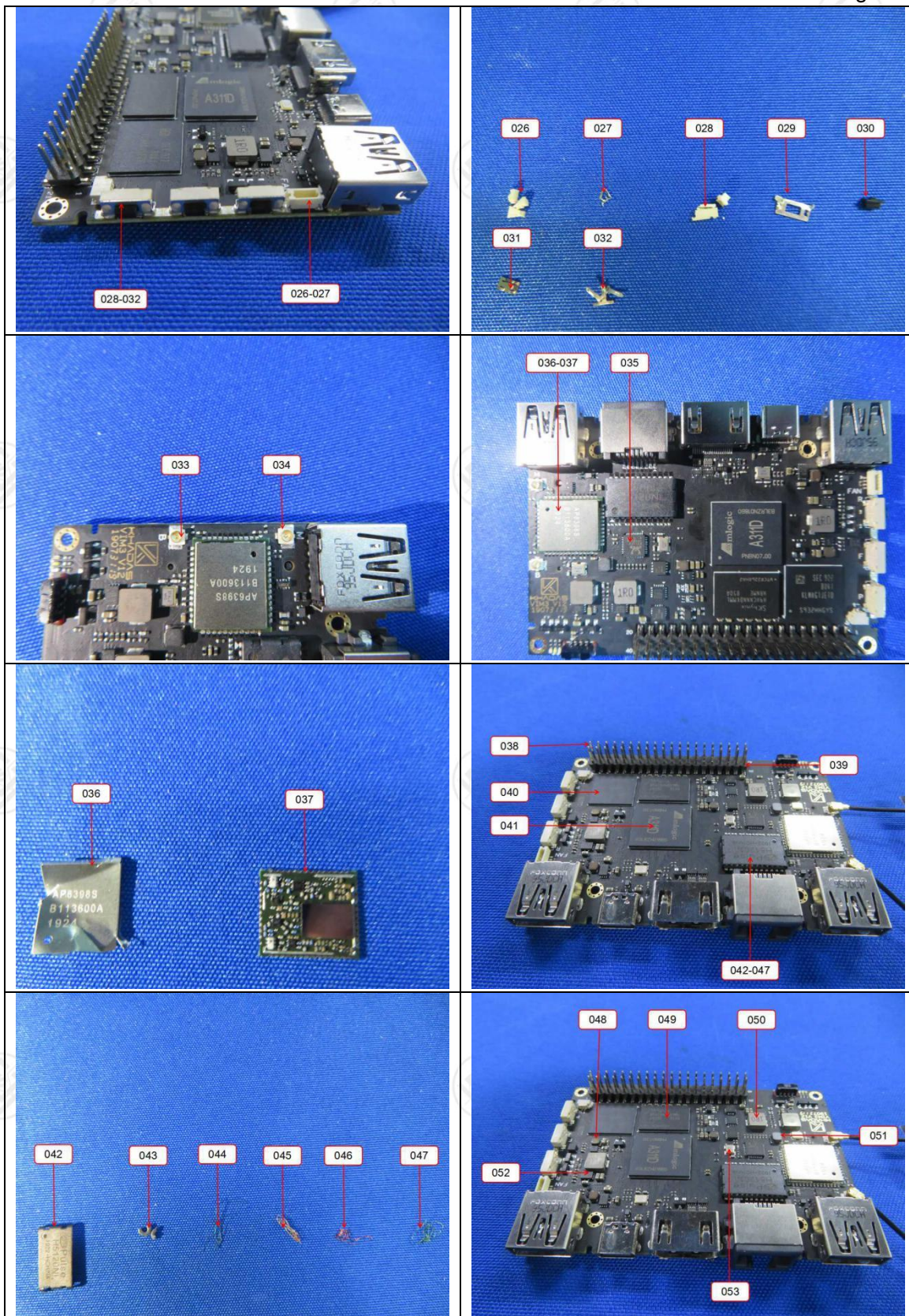


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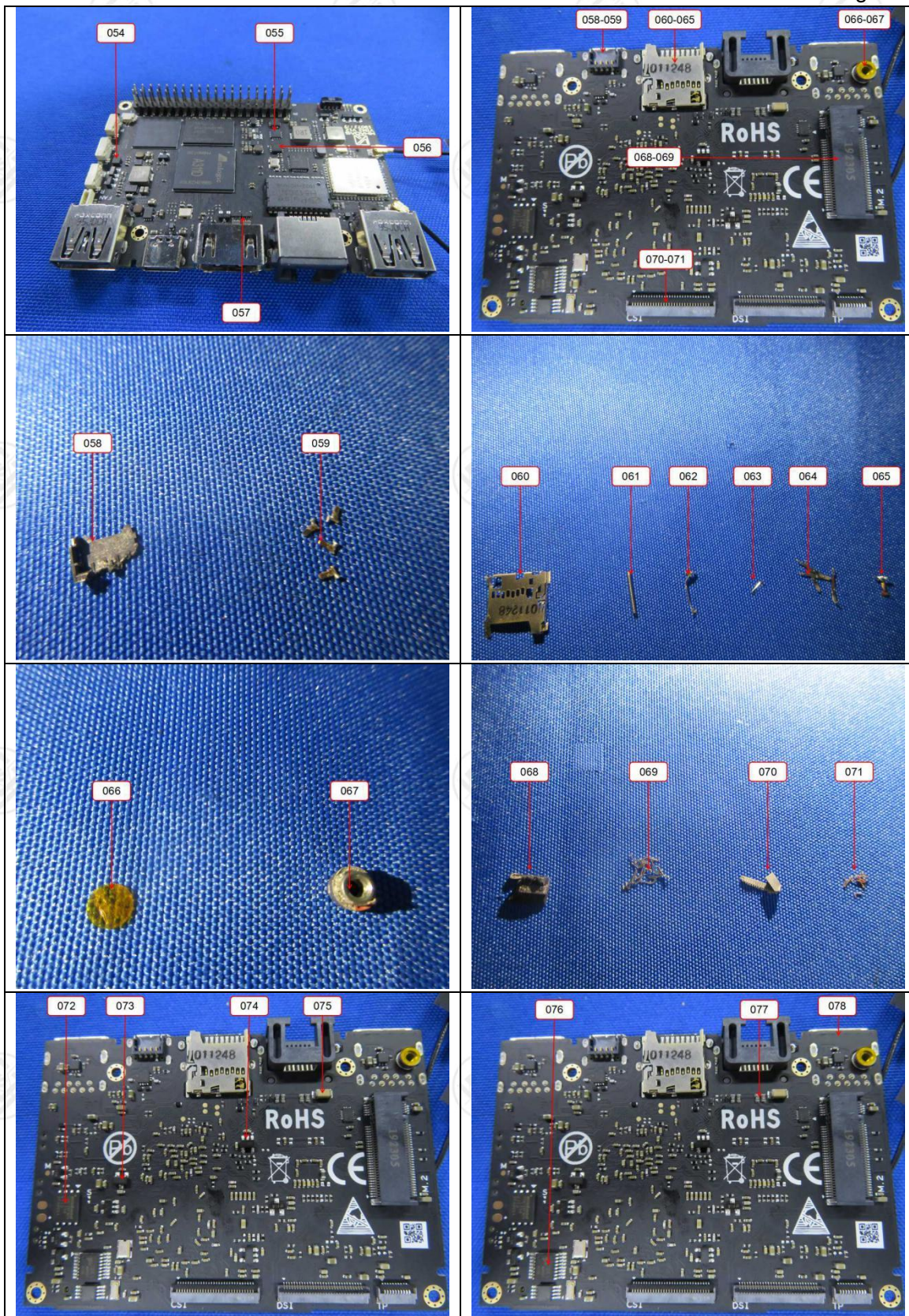


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***** End of Report *****

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Statement:

1. The test report is considered invalidated without approval signature, special seal on the perforation.
2. The result(s) shown in this report refer only to the sample(s) tested.
3. Without written approval of LCS, this report can't be reproduced except in full.
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