TEST REPORT

KOTITI No.	**8219-1403-101261**		
Applicant	Suprema ID Inc.		
Date In	2019. 08. 14.	**Date Out**	2019. 10. 16.

Product Name	BioMini Slim 3 /BM-Slim3, BioMini Slim 3S / BM-Slim3S
Model Name	N/S
Part Name	N/S
Testing Period	2019. 08. 14. ~ 2019. 10. 16.
Test Result	**For further details, please refer to the following page(s).**

Affirmation	Prepared by Name : Hyun min Lee	Technical Manager Name : Young joon Park

KOTITI Testing & Research Institute

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1. The test results contained in this report are limited to results on the sample(s) that is provided by client and are not necessarily indicative or representative of the qualities of the lot from which the sample(s) was taken or of all products.
2. Further use of the results of this report is prohibited unless allowed under a separate agreement set forth in an official document that is established between the client identified on this letter and the KOTITI Testing & Research Institute.
3. The test result in this report is not related to accreditation of KOLAS.
4. You can verify the authenticity by the QR code at the bottom right side of the issued report, or access http://cs.kotiti-global.com and enter the test report number.

Restriction of Hazardous Substances Directive (RoHS/2011/65/EU), Unit : mg/kg

No.	Screening Test (Unit : mg/kg)						Precision Analysis (Unit : mg/kg)					
	Pb	Cd	Hg	Cr	Spot test	Br	Pb	Cd	Hg	Cr^{6+}	PBBs	PBDEs
1-1-1	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
1-1-2	N.D.	N.D.	N.D.	N.D.	Negative	N.A.	-	-	-	-	-	-
1-2	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
1-3	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
1-4-1	N.D.	N.D.	N.D.	N.D.	Negative	N.A.	-	-	-	-	-	-
1-4-2	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
1-5-1	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
1-5-2	N.D.	N.D.	N.D.	89 053	Negative	N.A.	-	-	-	-	-	-
1-5-3	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
1-5-4	N.D.	N.D.	N.D.	N.D.	Negative	N.A.	-	-	-	-	-	-
1-5-5	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
1-5-6	N.D.	N.D.	N.D.	N.D.	Negative	N.A.	-	-	-	-	-	-
1-5-7	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
1-5-8	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
1-5-9	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
1-5-10	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
1-6-1	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
1-6-2	N.D.	N.D.	N.D.	N.D.	Negative	N.A.	-	-	-	-	-	-
1-6-3	N.D.	N.D.	N.D.	N.D.	Negative	N.A.	-	-	-	-	-	-
1-6-4	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
1-6-5	N.D.	N.D.	N.D.	N.D.	N.A.	1 074	-	-	-	-	N.D.	N.D.
1-6-6	N.D.	N.D.	N.D.	N.D.	Negative	N.A.	-	-	-	-	-	-
1-6-7	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
2-1-1	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
2-1-2	N.D.	N.D.	N.D.	N.D.	Negative	N.A.	-	-	-	-	-	-
2-2	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
2-3	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
2-4-1	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-

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Restriction of Hazardous Substances Directive (RoHS/2011/65/EU), Unit : mg/kg

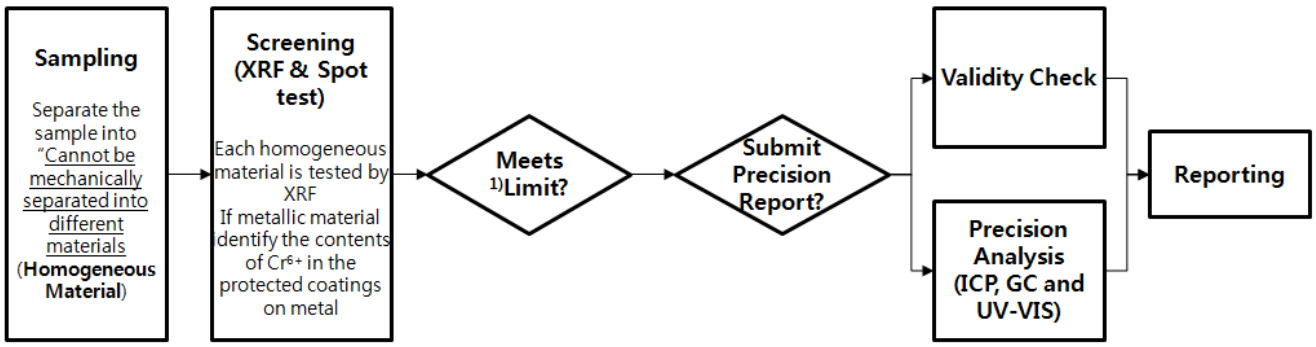
No.	Screening Test (Unit : mg/kg)						Precision Analysis (Unit : mg/kg)					
	Pb	Cd	Hg	Cr	Spot test	Br	Pb	Cd	Hg	Cr^{6+}	PBBs	PBDEs
2-4-2	N.D.	N.D.	N.D.	N.D.	Negative	N.A.	-	-	-	-	-	-
2-4-3	68	N.D.	210	34	Negative	N.A.	-	-	-	-	-	-
2-5-1	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
2-5-2	N.D.	N.D.	N.D.	N.D.	N.A.	N.D.	-	-	-	-	-	-
2-5-3	N.D.	N.D.	N.D.	N.D.	N.A.	91	-	-	-	-	-	-
2-6	322	N.D.	N.D.	N.D.	Negative	N.A.	-	-	-	-	-	-
2-7	N.D.	N.D.	N.D.	N.D.	N.A.	1 200	-	-	-	-	N.D.	N.D.

Restriction of Hazardous Substances Directive (RoHS/2011/65/EU), Unit : mg/kg

No.	Phthalates (Unit : mg/kg)			
	ethylhexyl) phthalate (DEHP)	di-n-butyl phthalate (DBP)	butyl benzyl phthalate (BBP)	diisobutyl phthalate (DIBP)
1-2	N.D.	N.D.	N.D.	N.D.
1-3	N.D.	N.D.	N.D.	N.D.
1-4-2	N.D.	N.D.	N.D.	N.D.
1-5-3	N.D.	N.D.	N.D.	N.D.
1-5-5	N.D.	N.D.	N.D.	N.D.
1-5-7	N.D.	N.D.	N.D.	N.D.
1-5-8	N.D.	N.D.	N.D.	N.D.
1-5-9	N.D.	N.D.	N.D.	N.D.
1-5-10	N.D.	N.D.	N.D.	N.D.
1-6-1	127	N.D.	N.D.	N.D.
1-6-4	123	N.D.	N.D.	N.D.

▣ Comments

1. Screening Methodology



[1] **Screening Limit**

Element	Judgement		
	Polymer	Metal	Mixture
Cd	X < 50 (BL) 50 < X < 170 (UD) 170 < X (OL)	X < 50 (BL) 50 < X < 170 (UD) 170 < X (OL)	X < 50 (BL) 50 < X < 170 (UD) 170 < X (OL)
Pb	X < 500 (BL) 500 < X < 1 500 (UD) 1500 < X (OL)	X < 500 (BL) 500 < X < 1 500 (UD) 1500 < X (OL)	X < 500 (BL) 500 < X < 1 500 (UD) 1500 < X (OL)
Hg	X < 500 (BL)	X < 500 (BL)	X < 500 (BL)
Cr	X < 500 (BL) 500 < X (UD)	X < 500 (BL) 500 < X (UD)	X < 500 (BL) 500 < X (UD)
Br	X < 500 (BL) 500 < X (UD)	-	X < 500 (BL) 500 < X (UD)

※ BL = Below Limit, UD = Undecidable, OL = Over Limit

※ If " OL " or " UD " is determined, it is necessary to conduct a precision analysis.

2. Test Methods

1) Reference to IEC 62321-3-1:2013 determined by ED-XRF
2) Reference to IEC 62321-5:2013 by acid digestion and determined by ICP-OES (Pb, Cd)
3) Reference to IEC 62321-4:2013 by acid digestion and determined by ICP-OES (Hg)
4) Reference to IEC 62321-7-2:2017 by solvent extraction and determined by UV-VIS (Cr^{6+})
5) Reference to IEC 62321-7-1:2015 by boiling water extraction and determined by UV-VIS (Cr^{6+})
6) Reference to IEC 62321-6:2015 by solvent extraction and determined by GC-MS (PBBs, PBDEs)
7) Reference to IEC 62321-8:2017 determined by GC-MS (Phthalates)

3. Remarks

1) Unit = mg/kg
2) N.D. = Not Detected [< RL(Report Limit)], N.A. = Not Applicable,
3) Negative : Not Detected, Positive : Detected
4) Reporting Limt

(1) XRF Screening

Test Item(s)	Reporting Limit of XRF (mg/kg)	
	Polymer	Metal
Lead (Pb)	50	100
Cadmium (Cd)	20	50
Mercury (Hg)	50	100
Chromium (Cr)	30	50
Bromine (Br)	50	-

(2) Precision Analysis

Test Item(s)	Report Limit of Precision (mg/kg)
Lead (Pb)	5
Cadmium (Cd)	2
Mercury (Hg)	1
Hexavalent Chromium (Cr^{6+})	8
Polybrominated Biphenyls (PBBs)	5
Polybrominated Diphenyl Ethers (PBDEs)	5
butyl benzyl phthalate (BBP)	50
di-n-butyl phthalate (DBP)	50
di(ethylhexyl) phthalate (DEHP)	50
diisobutyl phthalate (DIBP)	50

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Photo of the submitted sample(s)

Remarks	S = SOLDER
	P = PAINT
	M = METAL



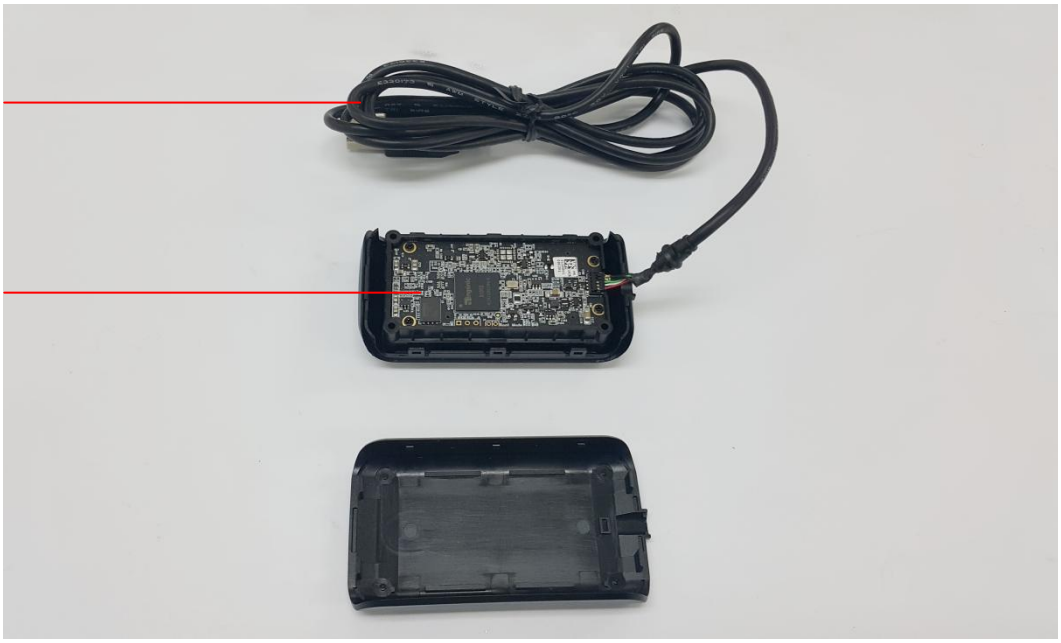
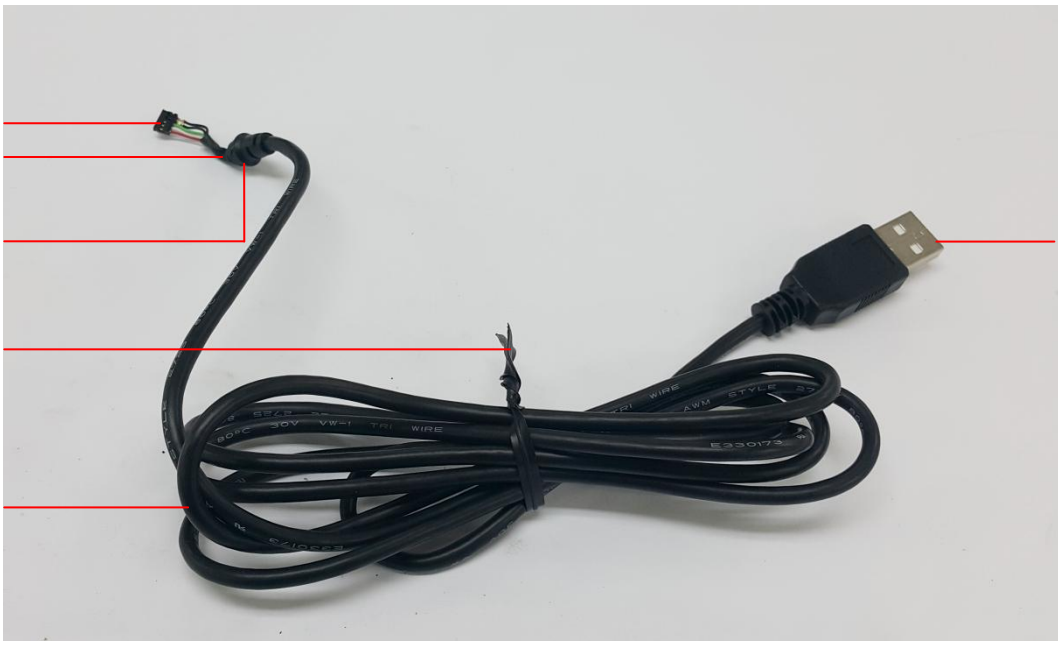
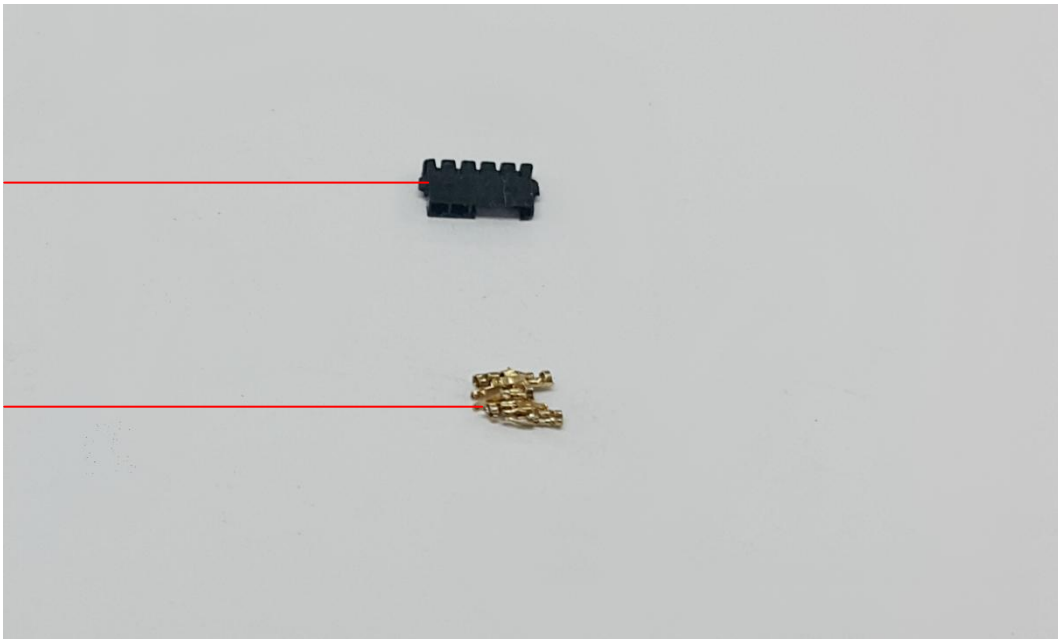


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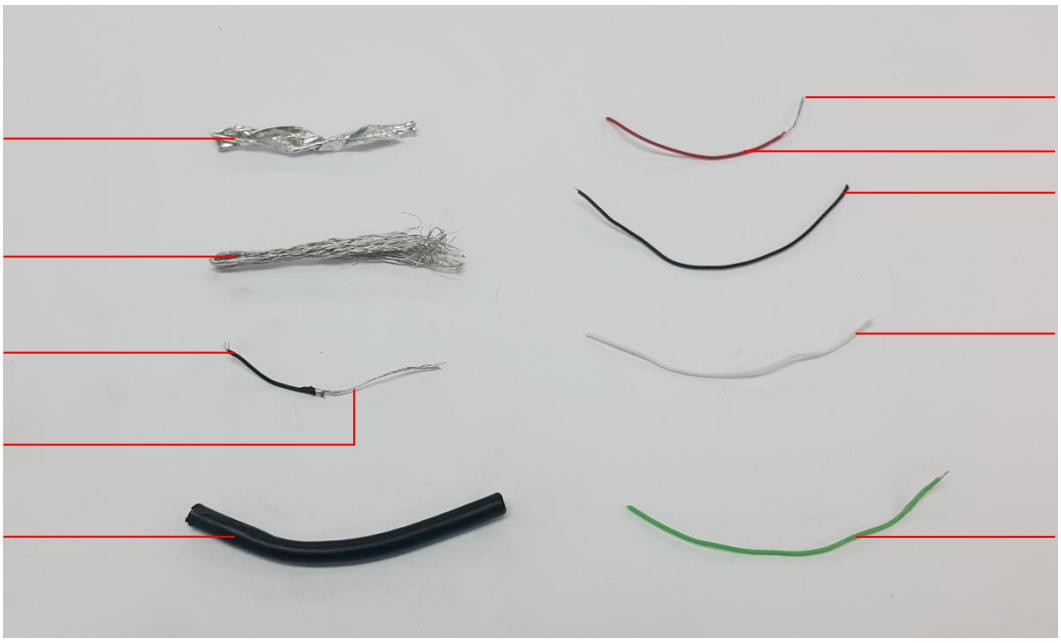
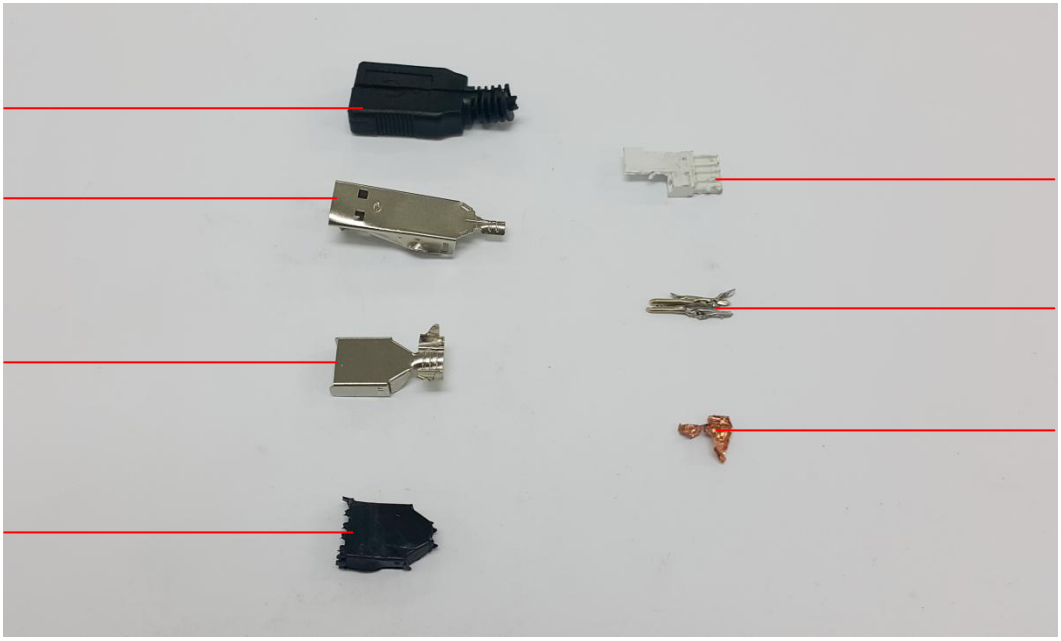
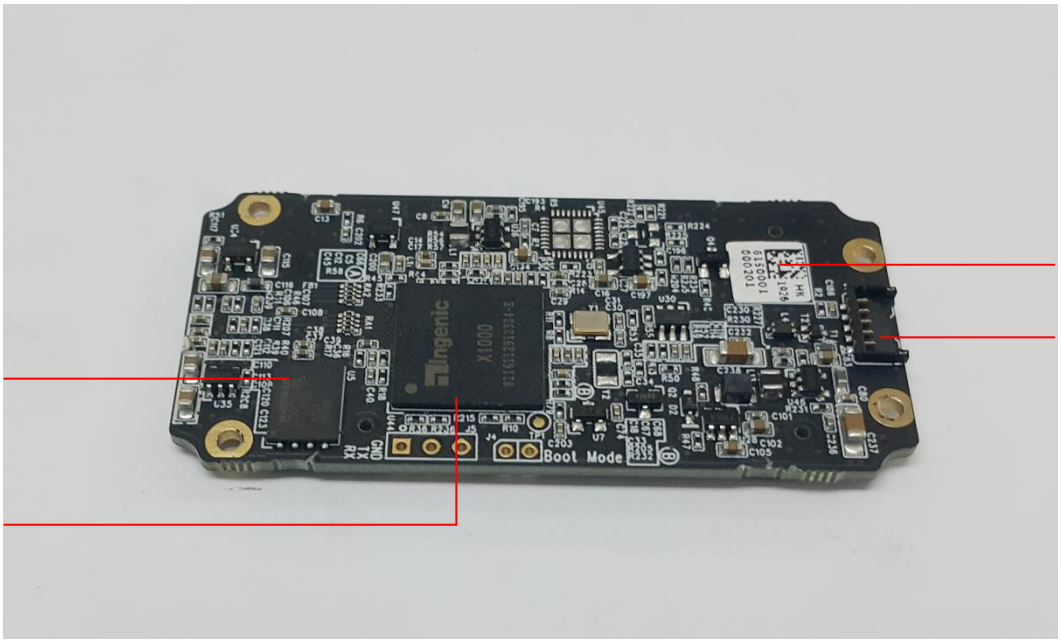


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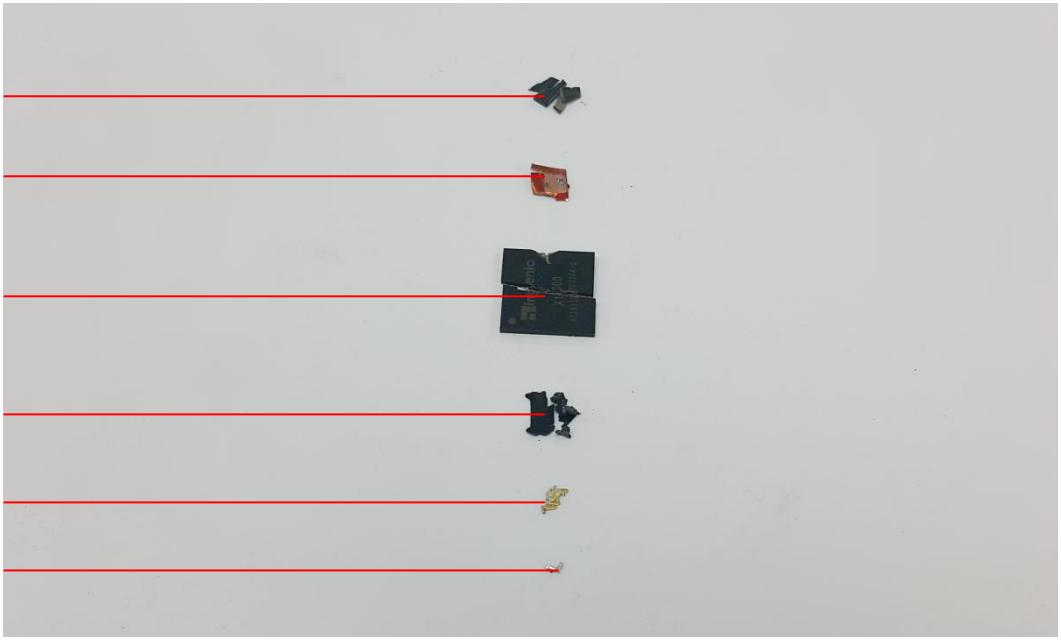




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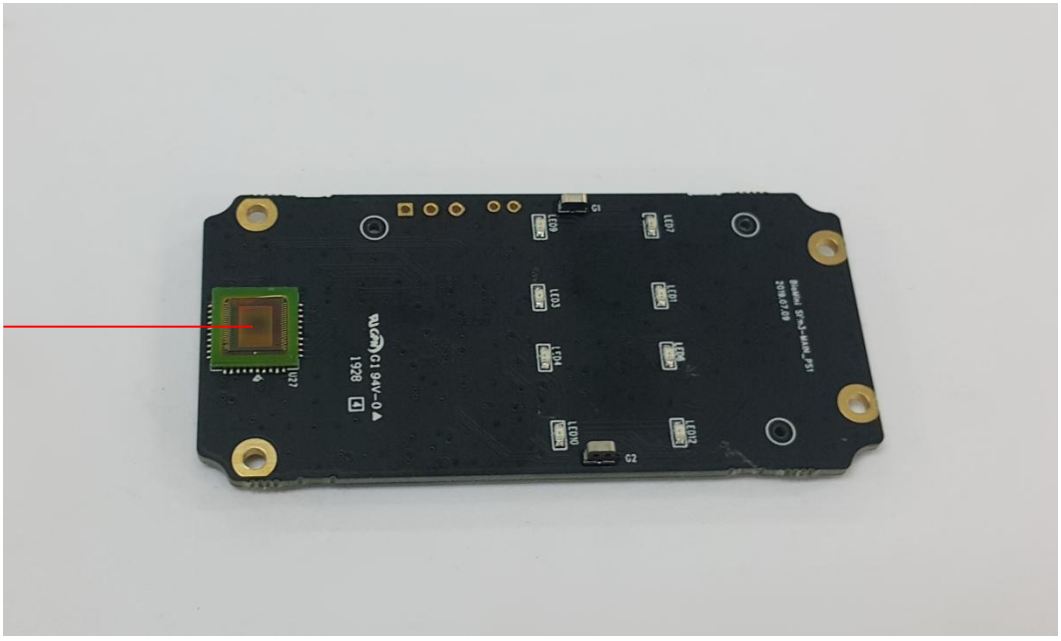


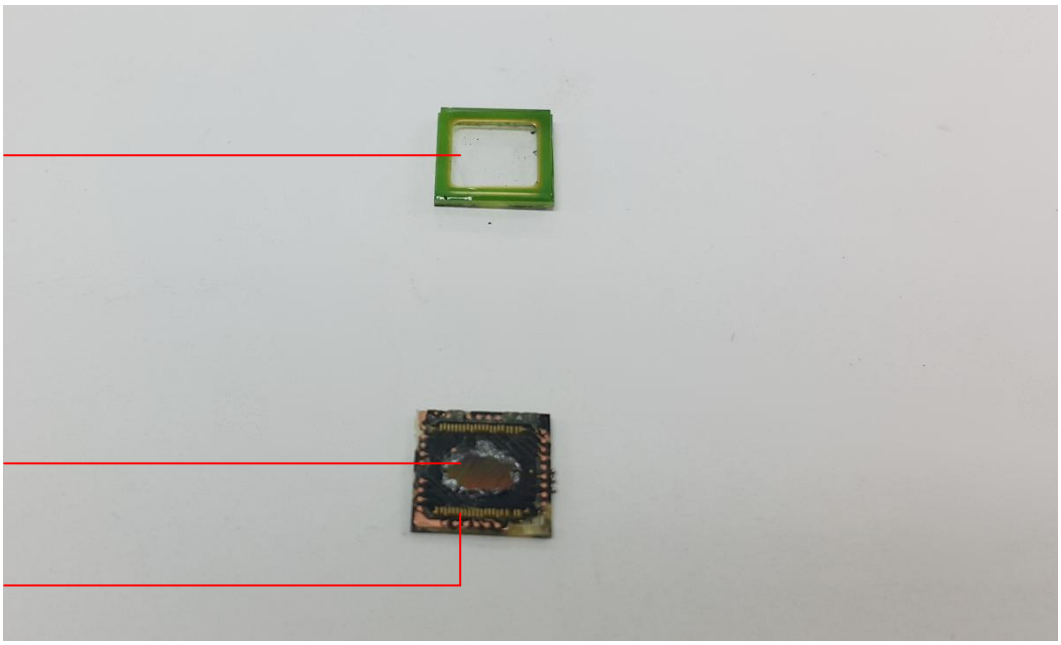
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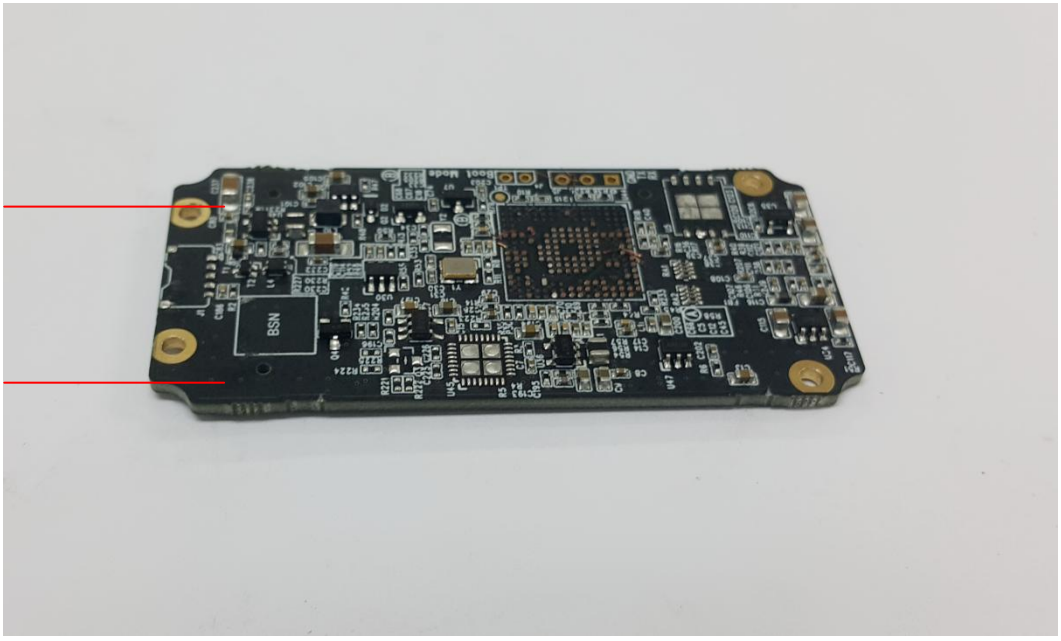
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2-5-3



2-6(S)

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