

TEST REPORT

Report No.: **SZ1231102-64564E**

Date: December 11, 2023

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Shenzhen Huafurui Technology Co., Ltd

Unit 601-03, 6/F, Block A, Building 1, Ganfeng Technology Building, No. 993 Jiaxian Road, Xiangjiaotang Community, Bantian Street, Longgang District, Shenzhen, P.R. China

Report on the submitted samples said to be:

Sample Description:	Smartphone
Style/Item No.:	V1
Country of Origin:	China
Brand:	HAFURY
Sample Receiving Date:	November 02,2023
Lately Re-submit Date:	December 01,2023
Testing Period:	November 02,2023 - December 07,2023
Result:	Please refer to next page(s).

Signed for and on behalf of

BACL

Queenie Lee

Checked by: _____
Queenie Lee

Len Xie

Approved by: _____
Len Xie

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Summary of Test Result:

TEST REQUEST

CONCLUSION

A RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on
Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates (DBP,
BBP, DEHP, DIBP) content

A.1 XRF screening test

Pass

A.2 Phthalates (DBP, BBP, DEHP, DIBP) content

Pass

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A RoHS Directive 2011/65/EU and amendment directives (EU) 2015/863 on Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs & PBDEs, Phthalates (DBP, BBP, DEHP, DIBP) content

A.1 XRF screening test

Test method: IEC 62321-3-1:2013

Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(1)	Black/yellow printed white paper with adhesive(label, USB cable)	BL	BL	BL	BL	BL
(2)	White PVC(cover, big plug, USB cable)	BL	BL	BL	BL	BL
(3)	Silvery/white body(big plug, USB cable)	BL	BL	BL	BL	BL
(4)	Translucent plastic(cover, big plug, USB cable)	BL	BL	BL	BL	BL
(5)	White PVC(cover, small plug, USB cable)	BL	BL	BL	BL	BL
(6)	Silvery body(small plug, USB cable)	BL	BL	BL	BL	BL
(7)	Translucent plastic(cover, small plug, USB cable)	BL	BL	BL	BL	BL
(8)	Black body(SMD resistor, PCB, small plug, USB cable)	BL	BL	BL	BL	BL
(9)	Brown body(SMD capacitor, PCB, small plug, USB cable)	BL	BL	BL	BL	BL
(10)	White printed blue coated beige plastic with coppery metal(PCB, small plug, USB cable)	BL	BL	BL	BL	BL
(11)	Silvery solder(PCB, small plug, USB cable)	BL	BL	BL	BL	---
(12)	White PVC(wire jacket, USB cable)	BL	BL	BL	BL	BL
(13)	Green plastic(inner wire jacket, USB cable)	BL	BL	BL	BL	BL
(14)	White plastic(inner wire jacket, USB cable)	BL	BL	BL	BL	BL
(15)	Black plastic(inner wire jacket, USB cable)	BL	BL	BL	BL	BL
(16)	Red plastic(inner wire jacket, USB cable)	BL	BL	BL	BL	BL
(17)	Coppery metal(inner wire, USB cable)	BL	BL	BL	BL	---
(18)	White plastic(cover, plug, earphone)	BL	BL	BL	BL	BL
(19)	Silvery body(plug, earphone)	BL	BL	BL	BL	BL
(20)	White soft plastic(PCB, cover, earphone)	BL	BL	BL	BL	BL
(21)	White printed blue coated beige plastic with coppery metal(PCB, plug, earphone)	BL	BL	BL	BL	BL
(22)	Silvery solder(PCB, plug, earphone, raw material)	BL	BL	BL	BL	---
(23)	Black printed white plastic(cover, controller, earphone)	BL	BL	BL	BL	BL
(24)	Silvery body(MIC, PCB, controller, earphone)	BL	BL	BL	BL	BL
(25)	Silvery body(switch, PCB, controller, earphone)	BL	BL	BL	BL	BL
(26)	Black body(SMD resistor, PCB, controller, earphone)	BL	BL	BL	BL	BL
(27)	Blue coated beige plastic with coppery metal(PCB, controller, earphone)	BL	BL	BL	BL	BL

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(28)	Silvery solder(PCB, controller, earphone, raw material)	BL	BL	BL	BL	---
(29)	White soft plastic(clip, controller, earphone)	BL	BL	BL	BL	BL
(30)	Black printed white plastic(cover, speaker, earphone)	BL	BL	BL	BL	BL
(31)	Black fabric with adhesive(net, cover, speaker, earphone)	BL	BL	BL	BL	BL
(32)	White soft plastic(sleeve, cover, speaker, earphone)	BL	BL	BL	BL	BL
(33)	White foam with adhesive(sticker, speaker, earphone)	BL	BL	BL	BL	BL
(34)	White dry glue(PCB, speaker, earphone)	BL	BL	BL	BL	BL
(35)	Green coated beige plastic with coppery metal(PCB, speaker, earphone)	BL	BL	BL	BL	BL
(36)	Silvery solder(PCB, speaker, earphone)	BL	BL	BL	BL	---
(37)	Silvery body(speaker, earphone)	BL	BL	BL	BL	BL
(38)	White plastic(wire jacket, speaker, earphone)	BL	BL	BL	BL	BL
(39)	Golden enameled wire(inner wire, speaker, earphone)	BL	BL	BL	BL	BL
(40)	Black enameled wire(inner wire, speaker, earphone)	BL	BL	BL	BL	BL
(41)	Red enameled wire(inner wire, speaker, earphone)	BL	BL	BL	BL	BL
(42)	Green enameled wire(inner wire, speaker, earphone)	BL	BL	BL	BL	BL
(43)	White plastic(wire clip, earphone)	BL	BL	BL	BL	BL
(44)	Silvery metal(pin, adapter)	BL	BL	BL	BL	---
(45)	White plastic(pin holder, adapter)	BL	BL	BL	BL	BL
(46)	Black printed white plastic(shell, adapter)	BL	BL	BL	BL	BL
(47)	Off-white glue(inner, shell, adapter)	BL	BL	BL	BL	BL
(48)	Silvery metal(contact chip, PCB, adapter)	BL	BL	BL	BL	---
(49)	White dry glue(PCB, adapter)	BL	BL	BL	BL	BL
(50)	Black plastic(insulation sheet, PCB, adapter)	BL	BL	BL	BL	BL
(51)	Silvery body(USB socket, PCB, adapter)	BL	BL	BL	BL	BL
(52)	Red printed silvery body(capacitor"C8", PCB, adapter)	BL	BL	BL	BL	BL
(53)	Gray printed green plastic(sleeve, capacitor"C9", PCB, adapter)	BL	BL	BL	BL	BL
(54)	Silvery body(capacitor"C9", PCB, adapter)	BL	BL	BL	BL	BL
(55)	Gray printed green plastic(sleeve, capacitor"C4", PCB, adapter)	BL	BL	BL	BL	BL
(56)	Silvery body(capacitor"C4", PCB, adapter)	BL	BL	BL	BL	BL
(57)	Gray printed brown plastic(sleeve, capacitor"C1""C2", PCB, adapter)	BL	BL	BL	BL	BL
(58)	Silvery body(capacitor"C1""C2", PCB, adapter)	BL	BL	BL	BL	BL

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(59)	Brown body(fuse, PCB, adapter)	BL	BL	BL	BL	BL
(60)	Blue body(capacitor, PCB, adapter)	BL	BL	BL	BL	BL
(61)	White printed black body(capacitor, PCB, adapter)	BL	BL	BL	BL	BL
(62)	White printed black body(inductor, PCB, adapter)	BL	BL	BL	BL	BL
(63)	Black printed yellow plastic with adhesive(tape, transformer, PCB, adapter)	BL	BL	BL	BL	BL
(64)	Silvery metal(pin, transformer, PCB, adapter)	BL	BL	BL	BL	---
(65)	Black body(transformer, PCB, adapter, raw material)	BL	BL	BL	BL	BL
(66)	Black plastic(cover, triode, PCB, adapter, raw material)	BL	BL	BL	BL	BL
(67)*2	Coppery metal with silvery solder(triode, PCB, adapter, raw material)	OL (922744)	BL	BL	BL	---
(68)	Silvery metal(pin, triode, PCB, adapter, raw material)	BL	BL	BL	BL	---
(69)	Black body(IC"U3", PCB, adapter)	BL	BL	BL	BL	BL
(70)	Black body(IC"U2", PCB, adapter)	BL	BL	BL	BL	BL
(71)	Black body(IC"U1", PCB, adapter)	BL	BL	BL	BL	BL
(72)	Black body(SMD bridge rectifier, PCB, adapter)	BL	BL	BL	BL	BL
(73)	Black body(big SMD diode, PCB, adapter)	BL	BL	BL	BL	BL
(74)	Black body(small SMD diode, PCB, adapter)	BL	BL	BL	BL	BL
(75)	Black body(SMD inductor, PCB, adapter)	BL	BL	BL	BL	BL
(76)	Black body(big SMD resistor, PCB, adapter)	BL	BL	BL	BL	BL
(77)	Black body(small SMD resistor, PCB, adapter)	BL	BL	BL	BL	BL
(78)	Brown body(SMD capacitor, PCB, adapter)	BL	BL	BL	BL	BL
(79)	Silvery solder(PCB, adapter)	BL	BL	BL	BL	---
(80)	White printed green coated beige plastic with coppery metal(PCB, adapter)	BL	BL	BL	BL	BL
(81)	Black plated silvery metal with plastic(SIM/SD tray, Smart phone)	BL	BL	BL	BL	---
(82)	Black plated silvery metal(cover, button, Smart phone)	BL	BL	BL	BL	---
(83)	Black plastic(button, Smart phone)	BL	BL	BL	BL	BL
(84)	Black/silvery coated clear glass(rear cover, Smart phone)	BL	BL	BL	BL	BL
(85)	Black foam with adhesive(stick, rear cover, Smart phone)	BL	BL	BL	BL	BL
(86)	White dry glue(rear cover, Smart phone)	BL	BL	BL	BL	BL
(87)	Black plastic with adhesive(sticker, small screen, rear cover, Smart phone)	BL	BL	BL	BL	BL
(88)	Black glass with liquid crystal(small screen, rear cover, Smart phone)	BL	BL	BL	BL	BL

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(89)	Silvery fabric with adhesive(sticker, small screen, rear cover, Smart phone)	BL	BL	BL	BL	BL
(90)	Yellow clear plastic with adhesive(sticker, small screen, rear cover, Smart phone)	BL	BL	BL	BL	BL
(91)	Black body(big IC, FPC, small screen, rear cover, Smart phone)	BL	BL	BL	BL	BL
(92)	Black body(middle IC, FPC, small screen, rear cover, Smart phone)	BL	BL	BL	BL	BL
(93)	Black body(small IC, FPC, small screen, rear cover, Smart phone)	BL	BL	BL	BL	BL
(94)	Black body(SMD resistor, FPC, small screen, rear cover, Smart phone)	BL	BL	BL	BL	BL
(95)	Black body(SMD inductor, FPC, small screen, rear cover, Smart phone)	BL	BL	BL	BL	BL
(96)	Gray body(SMD capacitor, FPC, small screen, rear cover, Smart phone)	BL	BL	BL	BL	BL
(97)	Black/golden body(socket, FPC, small screen, rear cover, Smart phone)	BL	BL	BL	BL	BL
(98)	Silvery metal(base, FPC, small screen, rear cover, Smart phone)	BL	BL	BL	BL	---
(99)	Brown coated beige plastic with coppery metal(FPC, small screen, rear cover, Smart phone)	BL	BL	BL	BL	BL
(100)	Black plated silvery metal(screw, middle cover, Smart phone)	BL	BL	BL	BL	---
(101)	Silvery metal(screw, middle cover, Smart phone)	BL	BL	BL	BL	---
(102)	Silvery metal(stator, middle cover, Smart phone)	BL	BL	BL	BL	---
(103)	Black plastic with coppery metal(antennae FPC, middle cover, Smart phone)	BL	BL	BL	BL	BL
(104)	Brown plastic with coppery metal(LED FPC, middle cover, Smart phone)	BL	BL	BL	BL	BL
(105)	Yellow body(LED, middle cover, Smart phone)	BL	BL	BL	BL	BL
(106)	Black coated transparent glass(camera cover, middle cover, Smart phone)	BL	BL	BL	BL	BL
(107)	Transparent plastic(LED cover, middle cover, Smart phone)	BL	BL	BL	BL	BL
(108)	Black plastic(middle cover, Smart phone)	BL	BL	BL	BL	BL
(109)	Black body(fingerprint recognition module, Smart phone)	BL	BL	BL	BL	BL
(110)	White printed black plastic with coppery metal(FPC, fingerprint recognition module, Smart phone)	BL	BL	BL	BL	BL
(111)	Black plastic(cover, big speaker, Smart phone)	BL	BL	BL	BL	BL
(112)	Black fabric with adhesive(net, cover, big speaker, Smart phone)	BL	BL	BL	BL	BL
(113)	Black plastic(wire jacket, big speaker, Smart phone)	BL	BL	BL	BL	BL
(114)	Red plastic(wire jacket, big speaker, Smart phone)	BL	BL	BL	BL	BL
(115)	Silvery metal(wire, big speaker, Smart phone)	BL	BL	BL	BL	---
(116)	Silvery/black body(big speaker, Smart phone)	BL	BL	BL	BL	BL
(117)	Black plastic(wire jacket, small speaker, Smart phone)	BL	BL	BL	BL	BL
(118)	Red plastic(wire jacket, small speaker, Smart phone)	BL	BL	BL	BL	BL

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(119)	Silvery metal(wire, small speaker, Smart phone)	BL	BL	BL	BL	---
(120)	Silvery/black body(small speaker, Smart phone)	BL	BL	BL	BL	BL
(121)	Black body(front camera, Smart phone)	BL	BL	BL	BL	BL
(122)	Brown plastic with coppery metal(FPC, front camera, Smart phone)	BL	BL	BL	BL	BL
(123)	Black/golden body(socket, FPC, front camera, Smart phone)	BL	BL	BL	BL	BL
(124)	Silvery/black body(back big camera, Smart phone)	BL	BL	BL	BL	BL
(125)	White printed brown plastic with coppery metal(FPC, back big camera, Smart phone)	BL	BL	BL	BL	BL
(126)	Black/golden body(socket, FPC, back big camera, Smart phone)	BL	BL	BL	BL	BL
(127)	Black body(back middle camera, Smart phone)	BL	BL	BL	BL	BL
(128)	Black body(back small camera, Smart phone)	BL	BL	BL	BL	BL
(129)	White printed brown plastic with coppery metal(FPC, small/middle camera, Smart phone)	BL	BL	BL	BL	BL
(130)	Blue plastic(wire jacket, motor, Smart phone)	BL	BL	BL	BL	BL
(131)	Red plastic(wire jacket, motor, Smart phone)	BL	BL	BL	BL	BL
(132)	Silvery metal(wire, motor, Smart phone)	BL	BL	BL	BL	---
(133)	Black plastic(sticker, motor, Smart phone)	BL	BL	BL	BL	BL
(134)	Silvery fabric with adhesive(motor, Smart phone)	BL	BL	BL	BL	BL
(135)	Silvery body(motor, Smart phone)	BL	BL	BL	BL	BL
(136)	Silvery/black/red body(USB socket, small PCB, Smart phone)	BL	BL	BL	BL	BL
(137)	Black/silvery body(socket, small PCB, Smart phone)	BL	BL	BL	BL	BL
(138)	Silvery body(MIC, small PCB, Smart phone)	BL	BL	BL	BL	BL
(139)	Golden/black body(socket, small PCB, Smart phone)	BL	BL	BL	BL	BL
(140)*1	Golden metal(pin, contact pin, small PCB, Smart phone)	OL (9688)	BL	BL	BL	---
(141)	Golden metal(spring, contact pin, small PCB, Smart phone)	BL	BL	BL	BL	---
(142)*1	Golden metal(base, contact pin, small PCB, Smart phone)	OL (10508)	BL	BL	BL	---
(143)	Black body(big IC, small PCB, Smart phone)	BL	BL	BL	BL	BL
(144)	Black body(small IC, small PCB, Smart phone)	BL	BL	BL	BL	BL
(145)	Black body(SMD diode, small PCB, Smart phone)	BL	BL	BL	BL	BL
(146)	Black body(SMD inductor, small PCB, Smart phone)	BL	BL	BL	BL	BL
(147)	Black coated beige plastic with coppery metal(small PCB, Smart phone)	BL	BL	BL	BL	BL

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(148)	Silvery solder(small PCB, Smart phone)	BL	BL	BL	BL	---
(149)	Golden/silvery plastic with adhesive(sticker, main PCB, Smart phone)	BL	BL	BL	BL	BL
(150)	Silvery metal(cover, main PCB, Smart phone)	BL	BL	BL	BL	---
(151)	Silvery foam with adhesive(cover, main PCB, Smart phone)	BL	BL	BL	BL	BL
(152)	Silvery body(TF/SIM socket, main PCB, Smart phone)	BL	BL	BL	BL	BL
(153)	Black plastic(wire jacket, connecting line, main PCB, Smart phone)	BL	BL	BL	BL	BL
(154)	Silvery metal(wire, connecting line, main PCB, Smart phone)	BL	BL	BL	BL	---
(155)	Golden body(plug, connecting line, main PCB, Smart phone)	BL	BL	BL	BL	BL
(156)	White thermal grease(main PCB, Smart phone)	BL	BL	BL	BL	BL
(157)	Black soft plastic(sleeve, photosensitive element, main PCB, Smart phone)	BL	BL	BL	BL	BL
(158)	Black body(photosensitive element, main PCB, Smart phone)	BL	BL	BL	BL	BL
(159)	Yellow clear plastic with adhesive(sticker, main PCB, Smart phone)	BL	BL	BL	BL	BL
(160)	Black body(CPU, main PCB, Smart phone)	BL	BL	BL	BL	BL
(161)	Black body(storage IC, main PCB, Smart phone)	BL	BL	BL	BL	BL
(162)	Black body(big IC, main PCB, Smart phone)	BL	BL	BL	BL	BL
(163)	Black body(middle IC, main PCB, Smart phone)	BL	BL	BL	BL	BL
(164)	Black body(small IC, main PCB, Smart phone)	BL	BL	BL	BL	BL
(165)	Black body(rectangle IC, main PCB, Smart phone)	BL	BL	BL	BL	BL
(166)	Black body(mirror face IC, main PCB, Smart phone)	BL	BL	BL	BL	BL
(167)	Gray body(SMD inductor, main PCB, Smart phone)	BL	BL	BL	BL	BL
(168)	Brown body(SMD capacitor, main PCB, Smart phone)	BL	BL	BL	BL	BL
(169)	Silvery body(SMD crystal oscillator, main PCB, Smart phone)	BL	BL	BL	BL	BL
(170)	Black body(SMD resistor, main PCB, Smart phone)	BL	BL	BL	BL	BL
(171)	Black body(SMD diode, main PCB, Smart phone)	BL	BL	BL	BL	BL
(172)	White body(SMD IC, main PCB, Smart phone)	BL	BL	BL	BL	BL
(173)	Blue body(SMD IC, main PCB, Smart phone)	BL	BL	BL	BL	BL
(174)	Black/golden body(socket, main PCB, Smart phone)	BL	BL	BL	BL	BL
(175)	Silvery body(socket, main PCB, Smart phone)	BL	BL	BL	BL	BL
(176)	Silvery metal(antennae, main PCB, Smart phone)	BL	BL	BL	BL	---
(177)	Black printed beige plastic with coppery metal(main PCB, Smart phone)	BL	BL	BL	BL	BL
(178)	Silvery solder(main PCB, Smart phone)	BL	BL	BL	BL	---

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(179)	Black body(side button, main PCB, Smart phone)	BL	BL	BL	BL	BL
(180)	Black coated beige plastic with coppery metal(FPC, side button, main PCB, Smart phone)	BL	BL	BL	BL	BL
(181)	Silvery metal(base, side button, Smart phone)	BL	BL	BL	BL	---
(182)	Golden metal(nut, front shell, Smart phone)	BL	BL	BL	BL	---
(183)	Black plastic(front shell, Smart phone)	BL	BL	BL	BL	BL
(184)	Silvery metal(front shell, Smart phone)	BL	BL	BL	BL	---
(185)	Clear plastic(cover, front shell, Smart phone)	BL	BL	BL	BL	BL
(186)	Black plated silvery metal(net, front shell, Smart phone)	BL	BL	BL	BL	---
(187)	Silvery fabric with adhesive(sticker, base, screen, Smart phone)	BL	BL	BL	BL	BL
(188)	Black plastic with adhesive(sticker, base, screen, Smart phone)	BL	BL	BL	BL	BL
(189)	Silvery foam with adhesive(sticker, base, screen, Smart phone)	BL	BL	BL	BL	BL
(190)	Silvery metal(base, screen, Smart phone)	BL	BL	BL	BL	---
(191)	Silvery plastic(film, screen, Smart phone)	BL	BL	BL	BL	BL
(192)	Transparent plastic(film, screen, Smart phone)	BL	BL	BL	BL	BL
(193)	White plastic(film, screen, Smart phone)	BL	BL	BL	BL	BL
(194)	Iridescent plastic(film, screen, Smart phone)	BL	BL	BL	BL	BL
(195)	White body(LED, screen, Smart phone)	BL	BL	BL	BL	BL
(196)	Black plastic with adhesive(tape, screen, Smart phone)	BL	BL	BL	BL	BL
(197)	Silvery transparent plastic(polaroid, screen, Smart phone)	BL	BL	BL	BL	BL
(198)	Translucent black glass with liquid crystal(screen, Smart phone)	BL	BL	BL	BL	BL
(199)	Black body(IC, FPC, screen, Smart phone)	BL	BL	BL	BL	BL
(200)	Black body(SMD diode, FPC, screen, Smart phone)	BL	BL	BL	BL	BL
(201)	Black body(SMD inductor, FPC, screen, Smart phone)	BL	BL	BL	BL	BL
(202)	Brown body(SMD capacitor, FPC, screen, Smart phone)	BL	BL	BL	BL	BL
(203)	Black/white printed beige plastic with coppery metal(FPC, screen, Smart phone)	BL	BL	BL	BL	BL
(204)	Silvery solder(FPC, screen, Smart phone)	BL	BL	BL	BL	---
(205)	Clear plastic with adhesive(cover, battery, Smart phone)	BL	BL	BL	BL	BL
(206)	Black plastic with adhesive(tape, battery, Smart phone)	BL	BL	BL	BL	BL
(207)	Black body(SMD resistor, FPC, battery, Smart phone)	BL	BL	BL	BL	BL
(208)	Brown body(SMD capacitor, FPC, battery, Smart phone)	BL	BL	BL	BL	BL

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(209)	Black body(IC, FPC, battery, Smart phone)	BL	BL	BL	BL	BL
(210)	Silvery metal(contact chip, FPC, battery, Smart phone)	BL	BL	BL	BL	---
(211)	Brown plastic(base, FPC, battery, Smart phone)	BL	BL	BL	BL	BL
(212)	Black coated beige plastic with coppery metal(FPC, battery, Smart phone)	BL	BL	BL	BL	BL
(213)	Silvery solder(FPC, battery, Smart phone)	BL	BL	BL	BL	---

Note:

--- = Not Applicable.

*1 = As claimed by the material declaration submitted by the client, the materials of the sample No. 140,142 are copper alloy. And 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.

*2 = As claimed by the material declaration submitted by the client, the materials of the sample No. 67 is high melting temperature type solders. And 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).

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Remark:

i Result 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 IEC62321-3-1:2013.

Element	Unit	Polymers	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

IN = Inconclusive (questionable, need further chemical analysis)

ii The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.

iii The maximum permissible limit is quoted from the RoHS directive 2011/65/EU:

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

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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A.2 Phthalates(DBP, BBP, DEHP, DIBP)content

Test method: IEC 62321-8:2017

Item	Unit	MDL	Result						Limit
			(1)	(2)	(3)+(6)+(8)	(4)+(7)+(18)	(5)	(10)+(27)+(35)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(12)	(13)+(14)+(15)	(16)	(19)+(24)	(20)+(23)+(29)	(21)+(103)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	59	52	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(25)+(37)	(30)+(32)+(34)	(31)+(33)+(85)	(38)+(43)+(45)	(39)+(40)+(41)	(42)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Result						Limit
			(46)+(47)+(49)	(50)+(53)+(55)	(51)+(52)+(54)	(56)+(58)+(59)	(57)+(63)+(66)	(60)+(61)+(62)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(65)+(69)+(70)	(71)+(72)+(73)	(74)+(91)+(92)	(80)+(147)+(177)	(81)	(83)+(86)+(87)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(84)+(106)	(88)+(198)	(89)+(112)+(134)	(90)+(107)+(108)	(93)+(97)+(105)	(99)+(104)+(110)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(109)+(116)+(120)	(111)+(113)+(114)	(117)+(118)+(130)	(121)+(123)+(124)	(122)+(125)+(129)	(126)+(127)+(128)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

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Item	Unit	MDL	Result						Limit
			(131)+(133) +(149)	(135)+(136) +(137)	(138)+(139) +(143)	(144)+(145) +(152)	(151)+(156) +(189)	(153)+(157) +(159)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(155)+(158) +(160)	(161)+(162) +(163)	(164)+(165) +(166)	(169)+(171) +(172)	(173)+(174) +(175)	(179)+(195) +(199)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result				Limit
			(180)+(203)+(212)	(183)+(185)+(188)	(187)	(191)+(192)+(193)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result			Limit
			(194)+(196)+(197)	(200)+(209)	(205)+(206)+(211)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Benzyl Butyl Phthalate(BBP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/kg	30	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	/

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Note:

- N.D.= Not Detected or less than MDL
- MDL = Method Detection Limit
- "+" = Composite testing.

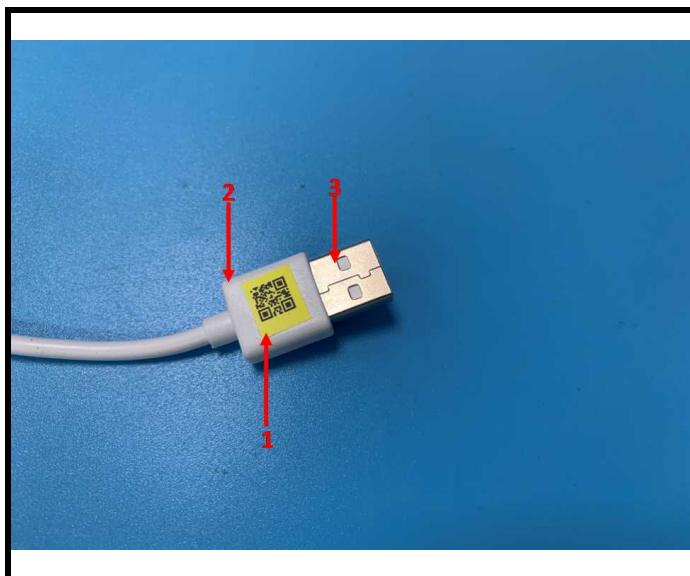
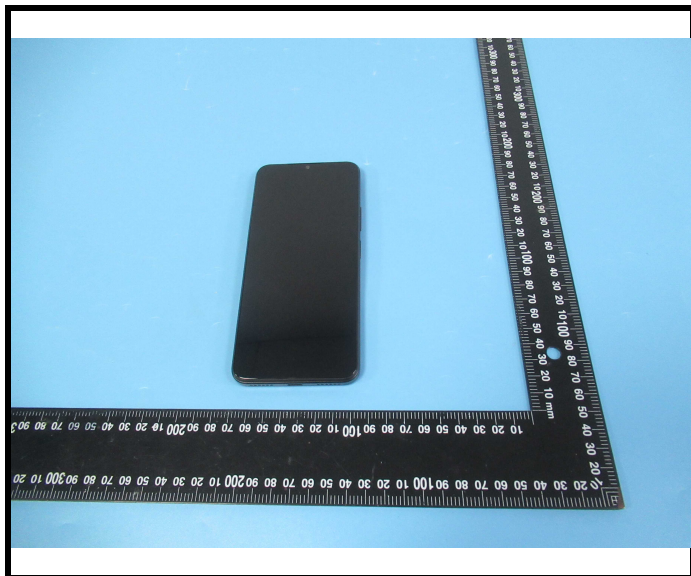
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Photograph of Sample

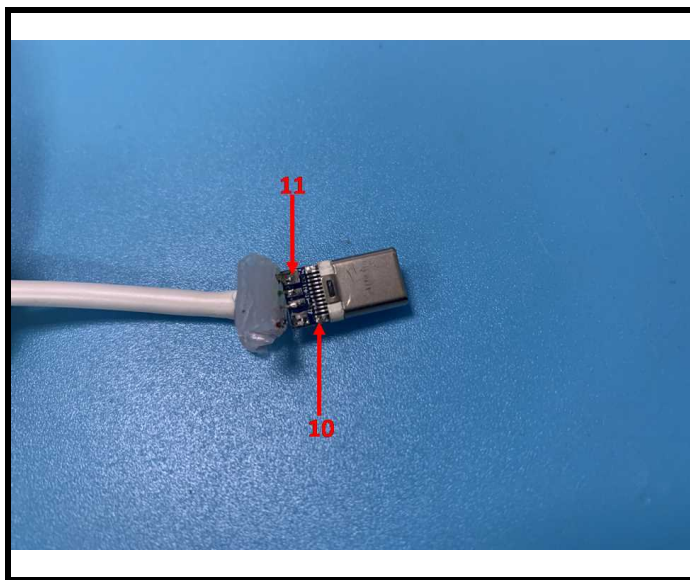
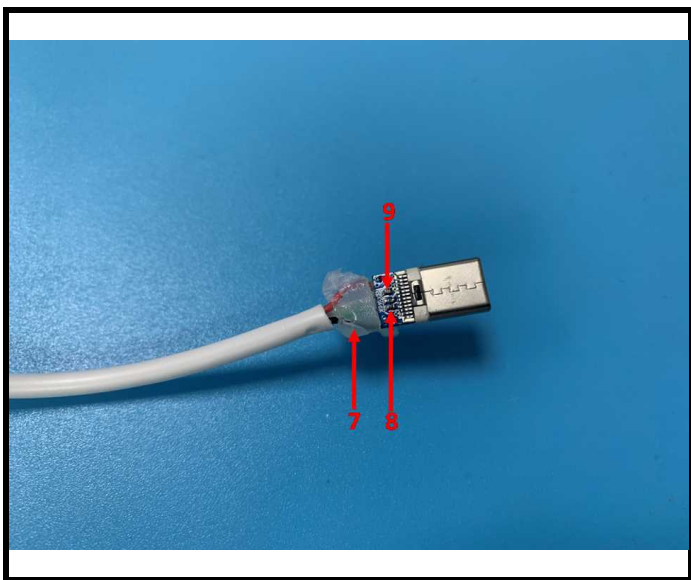
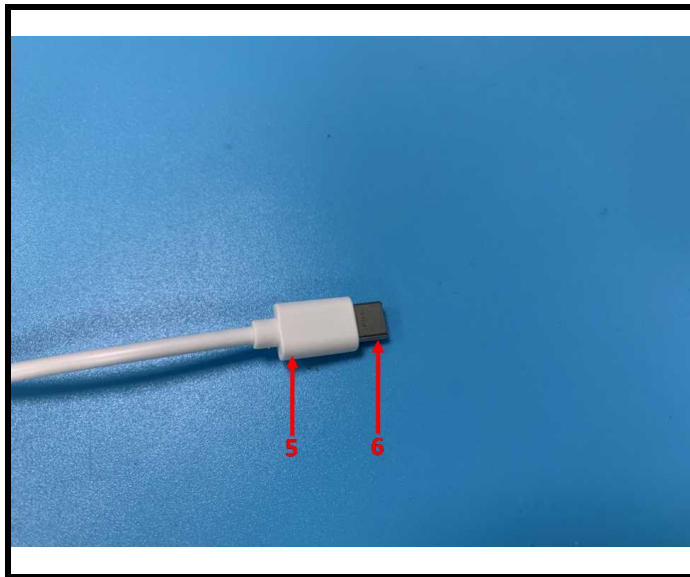


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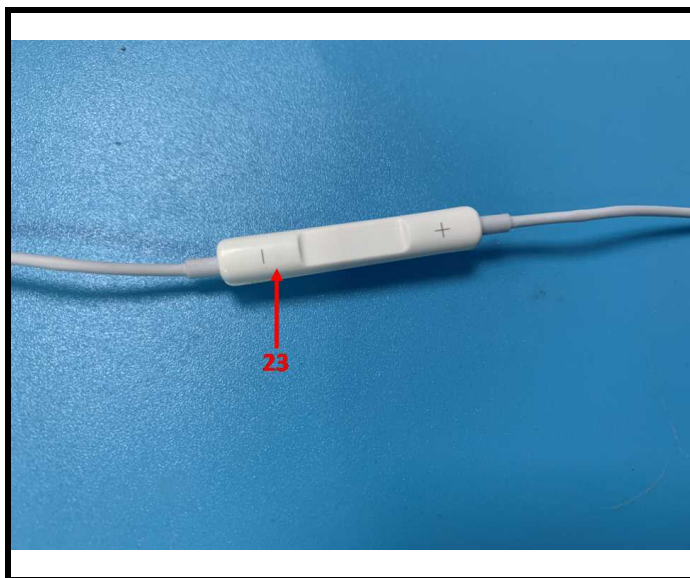
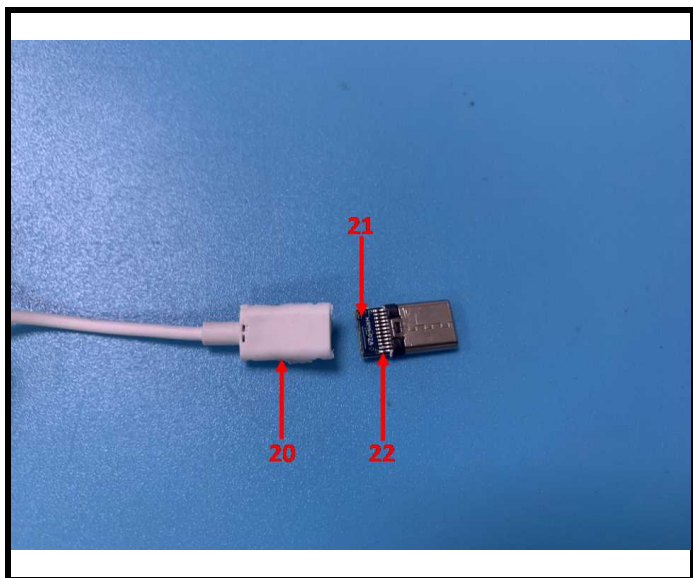
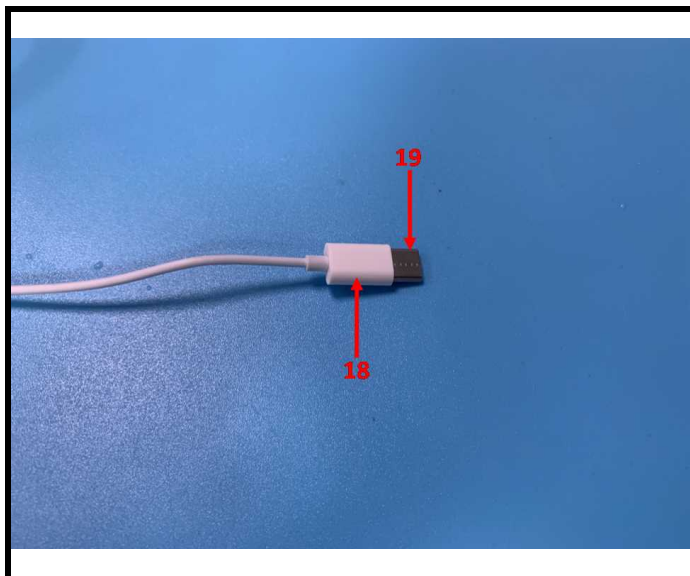
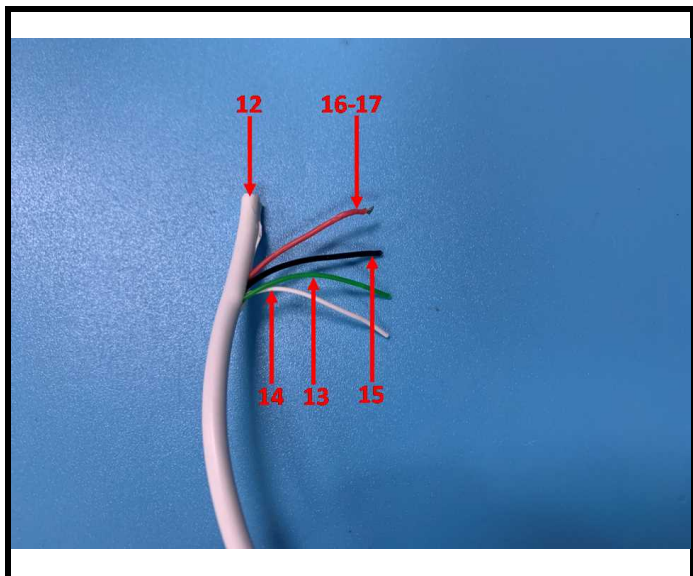


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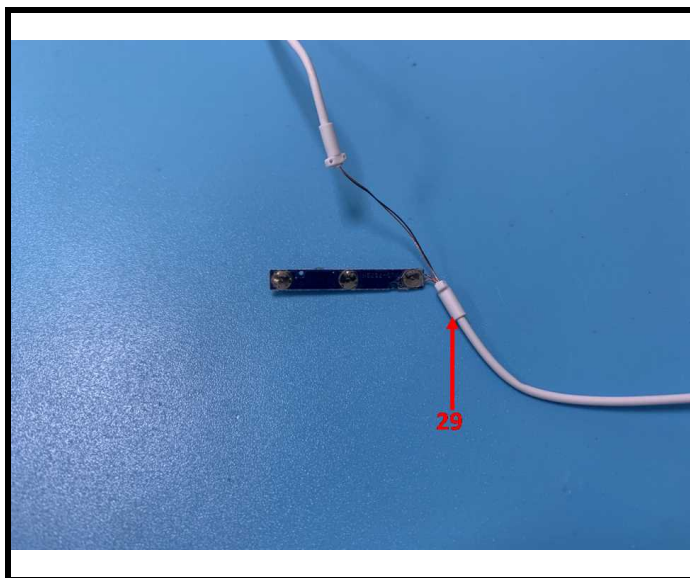
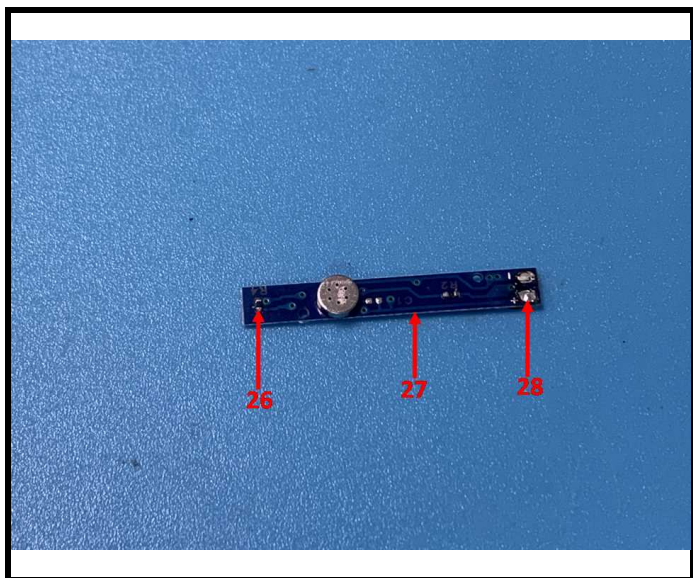
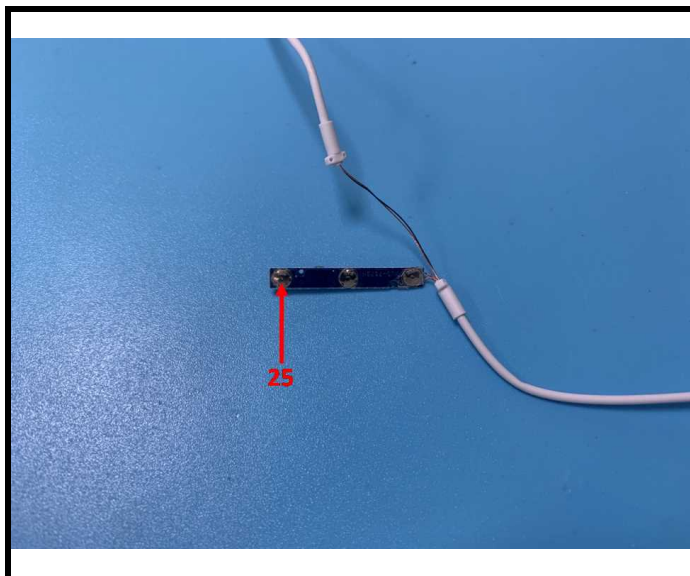
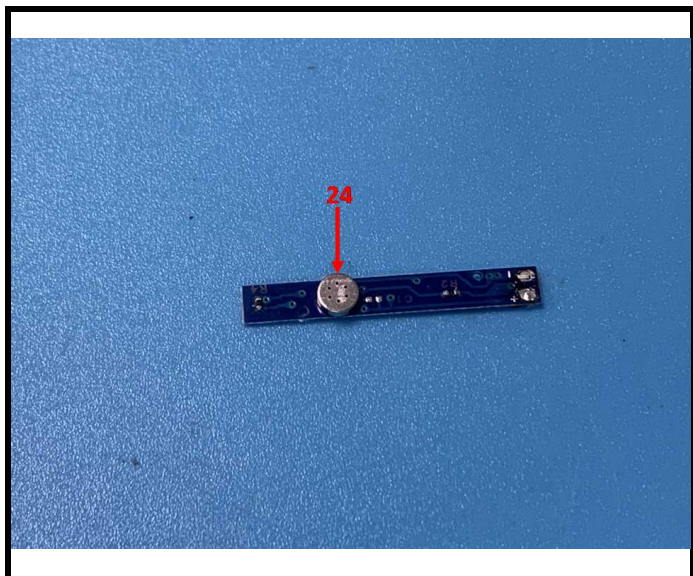


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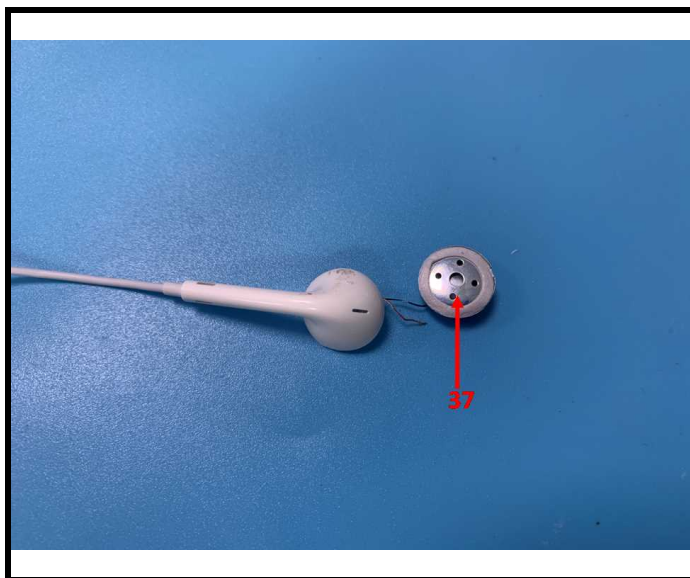
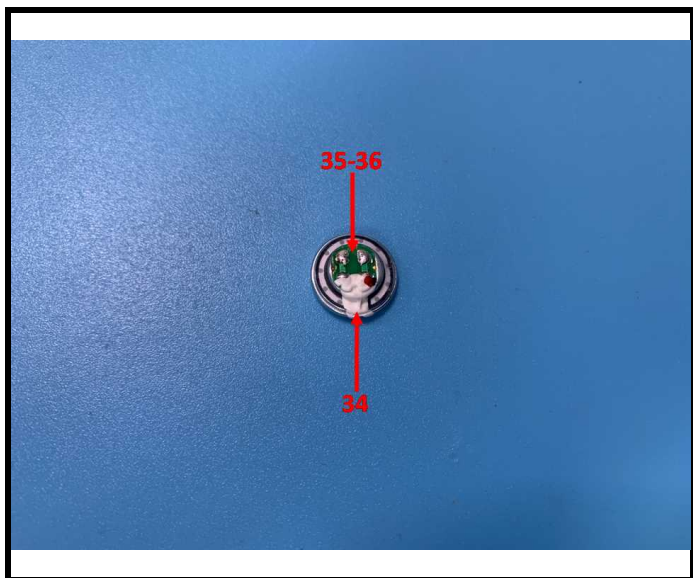
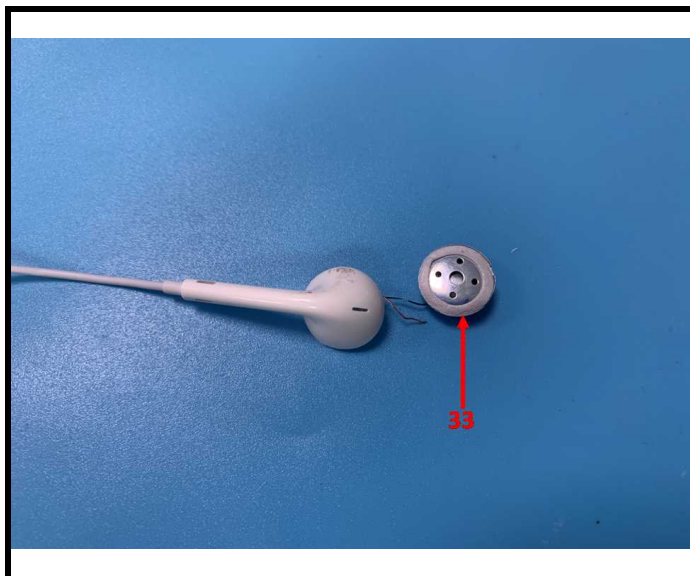
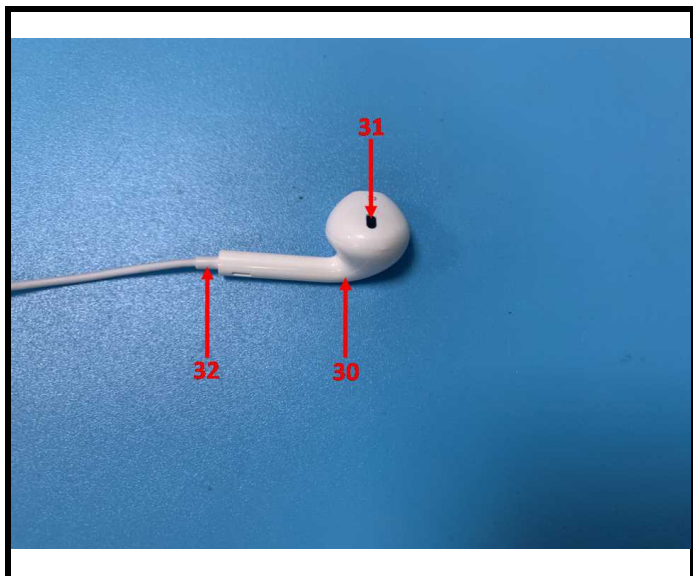


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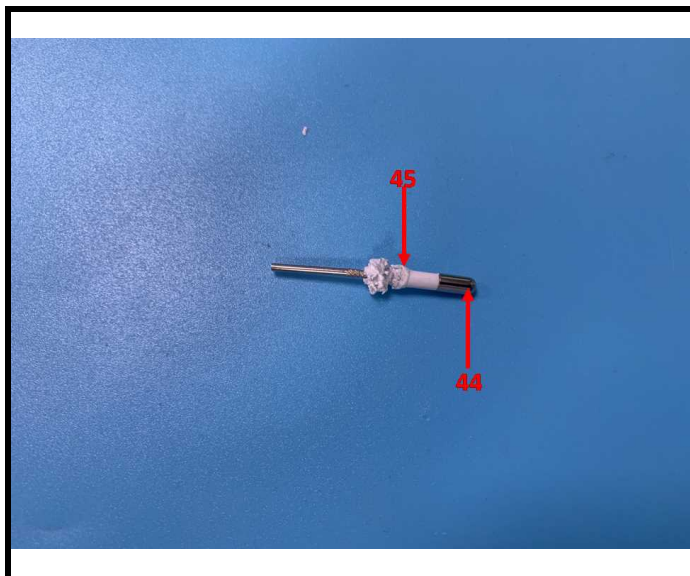
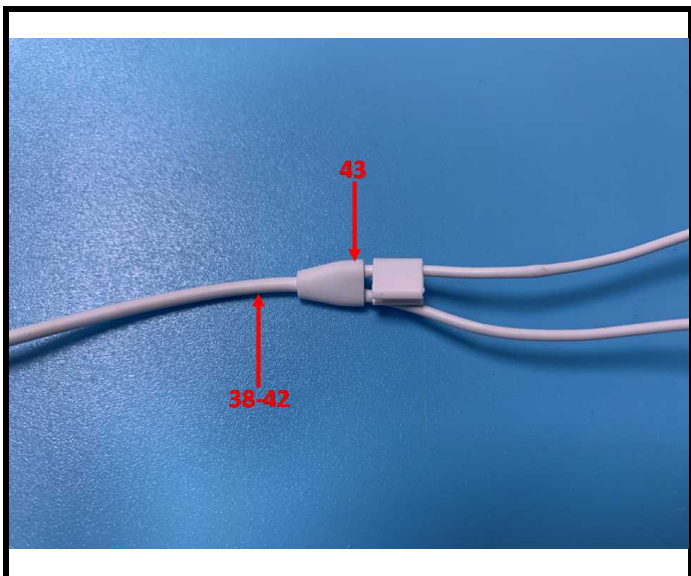


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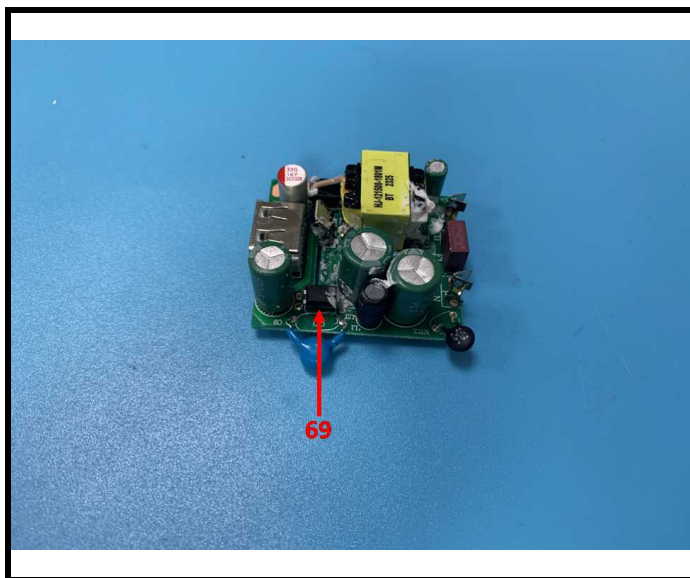
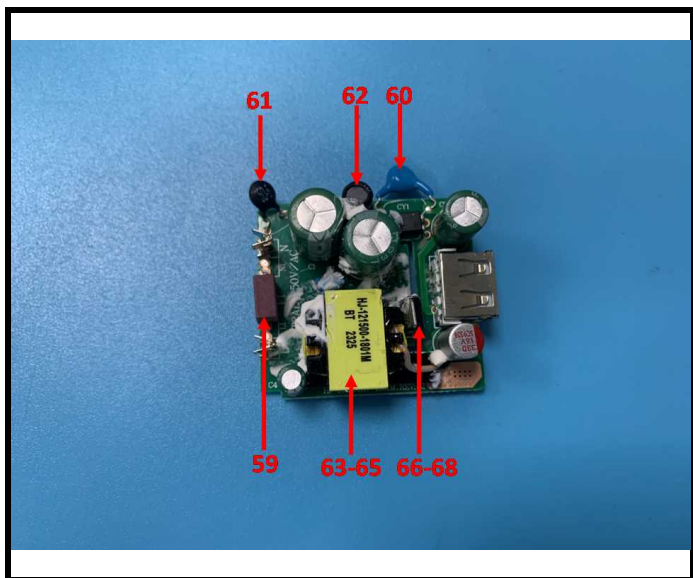
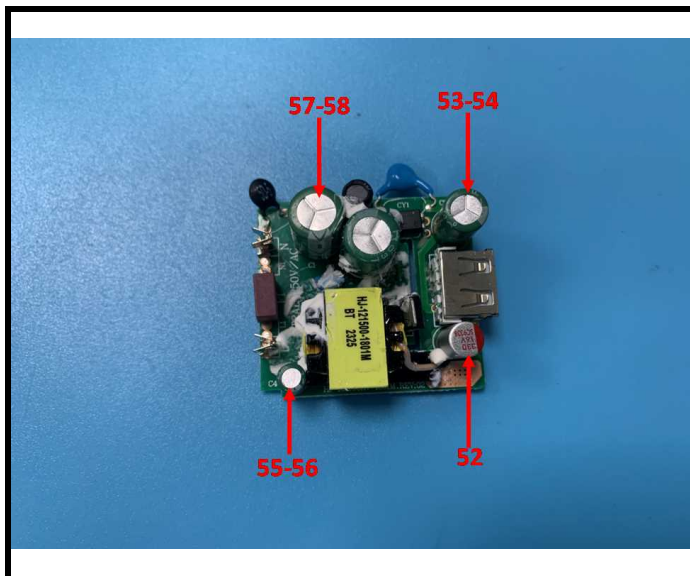
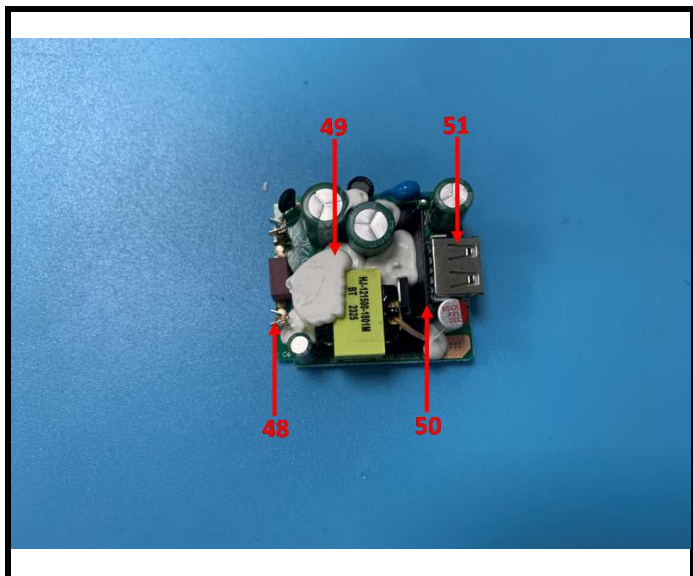


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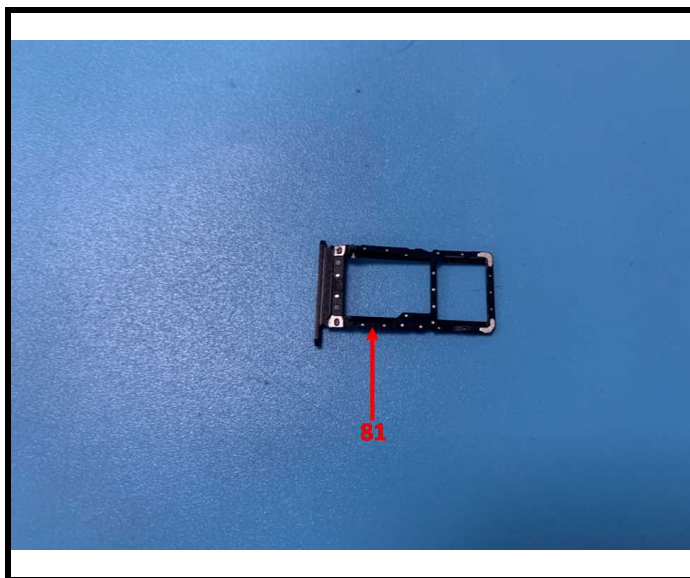
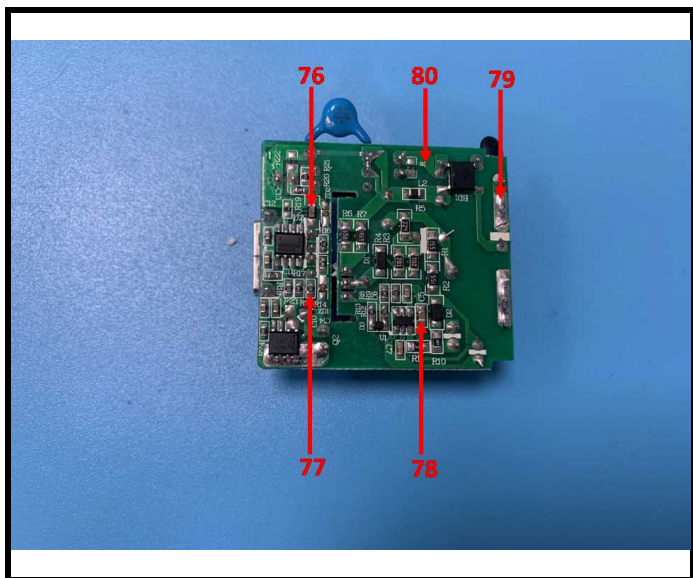
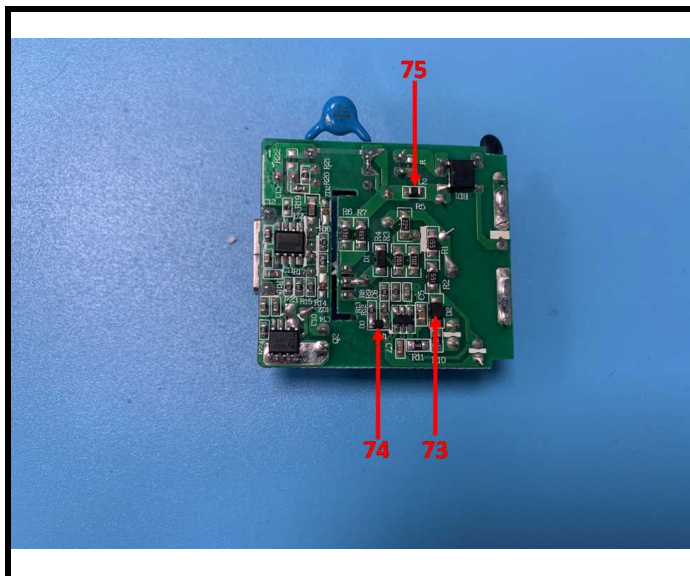
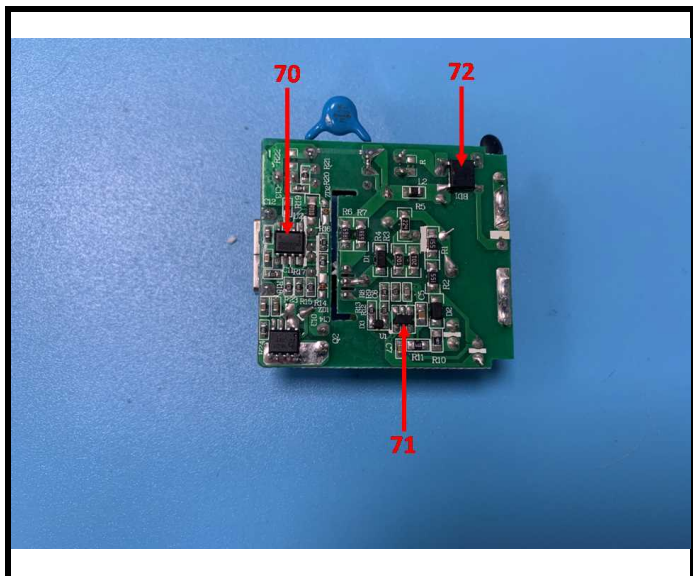


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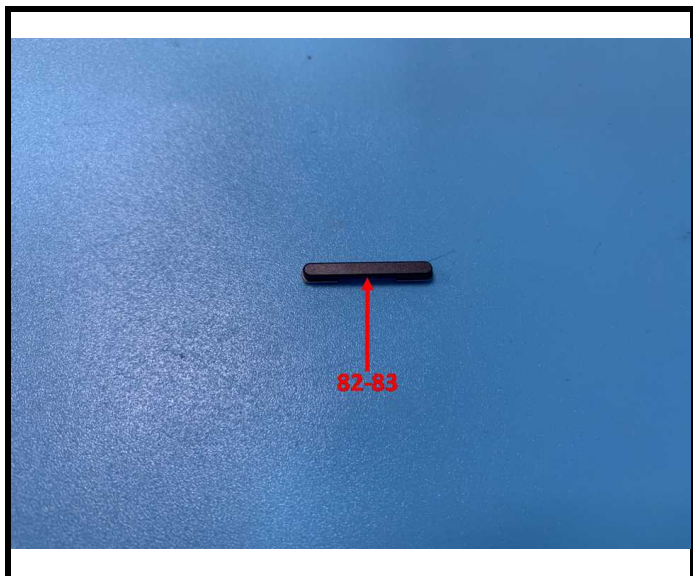


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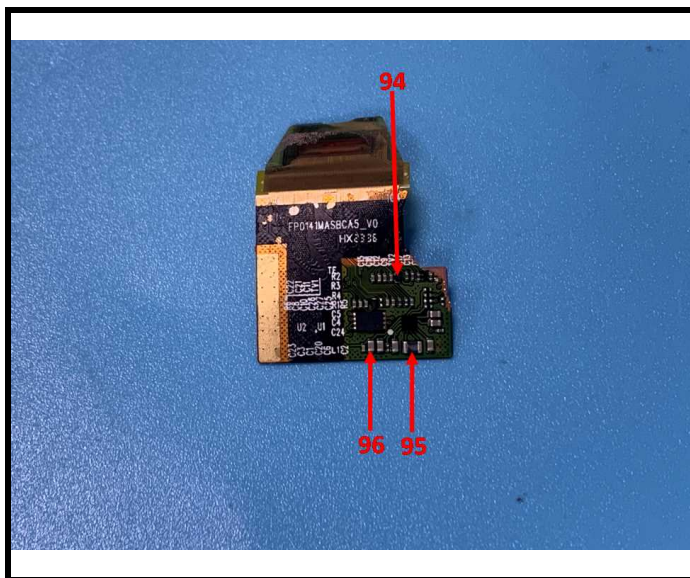
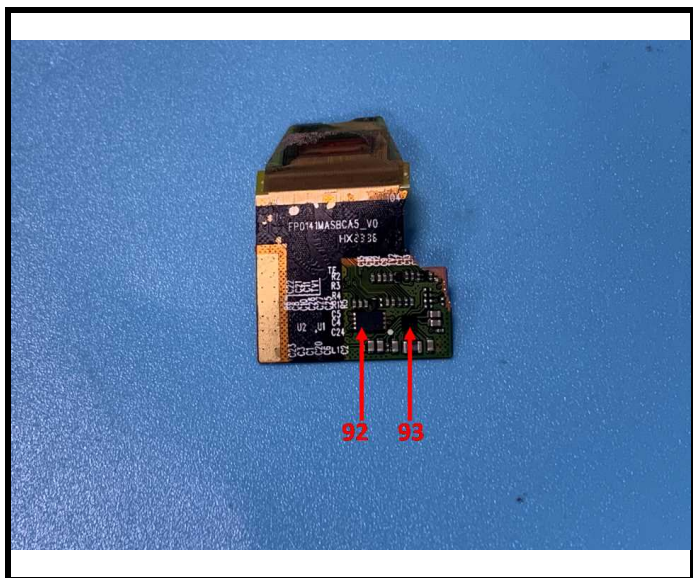
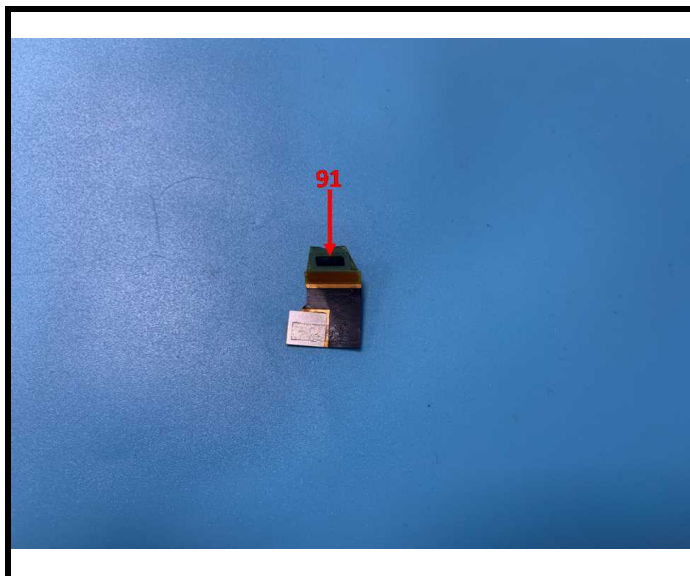
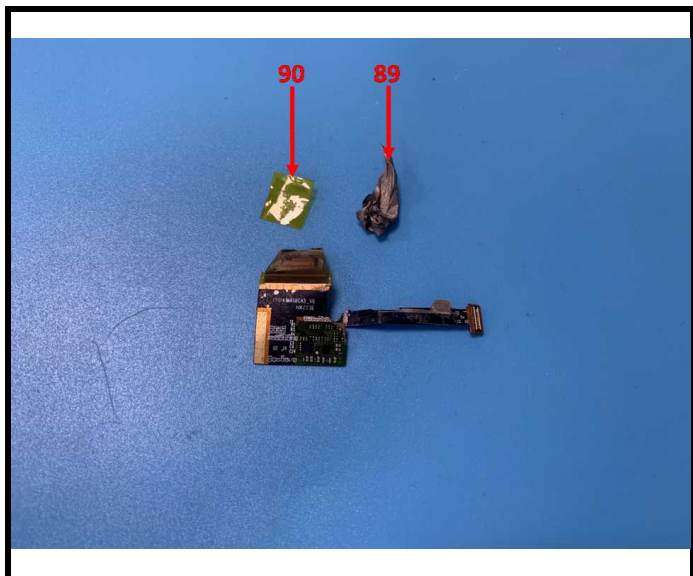


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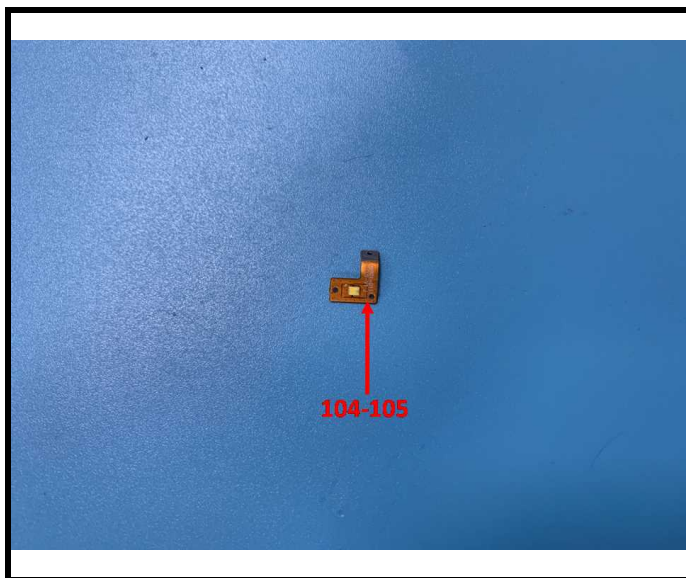
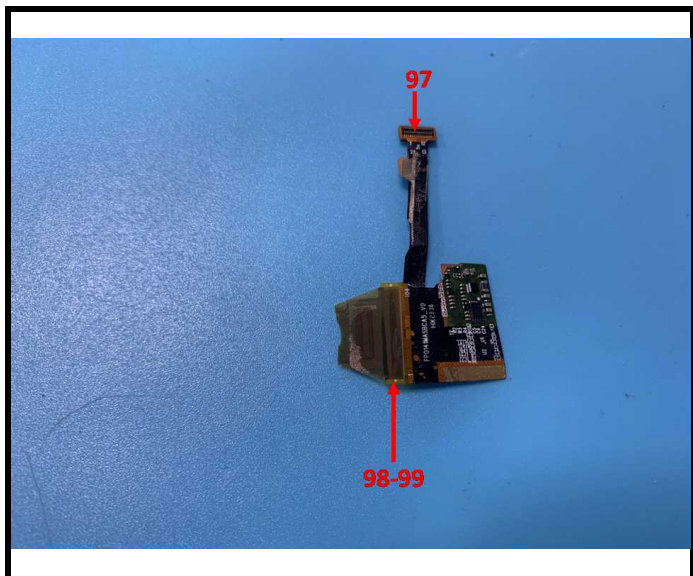


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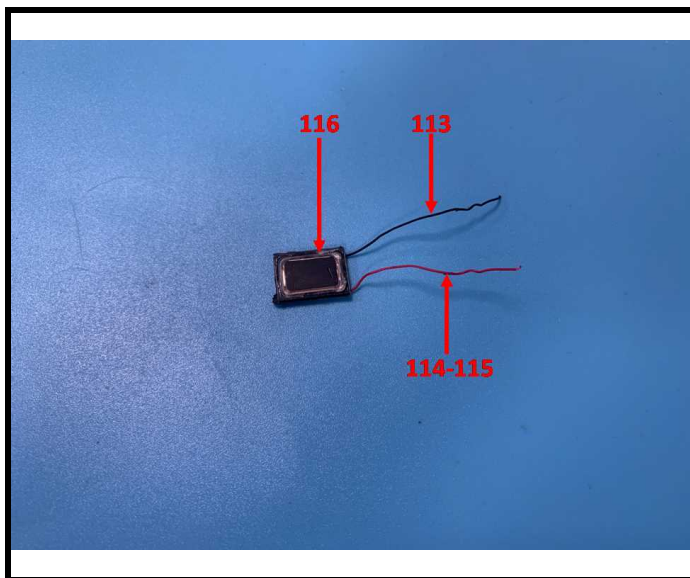
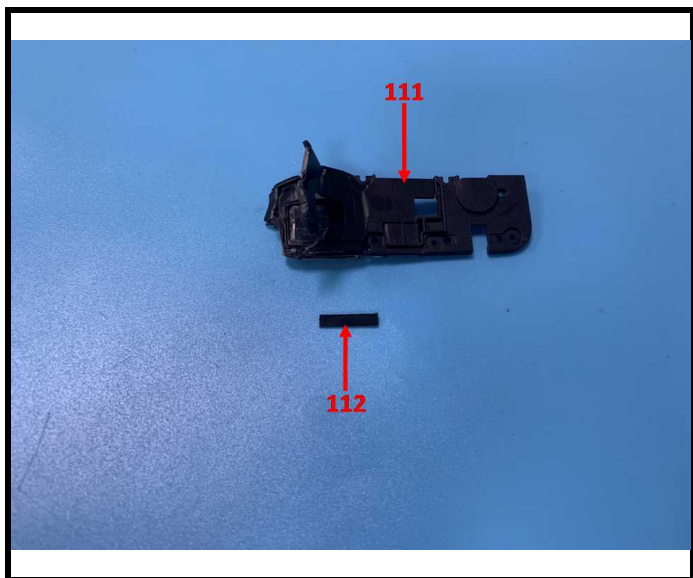
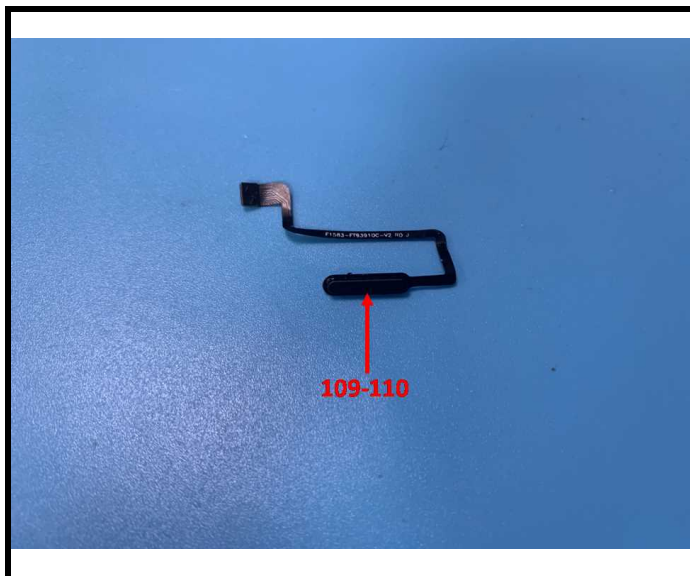
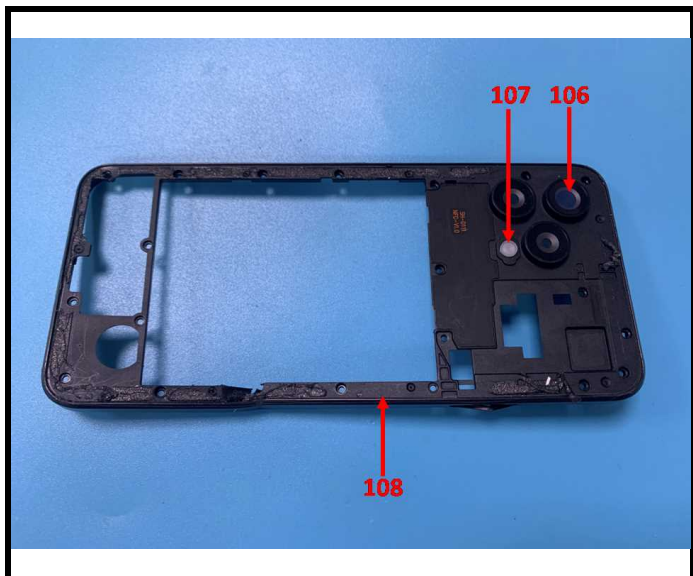


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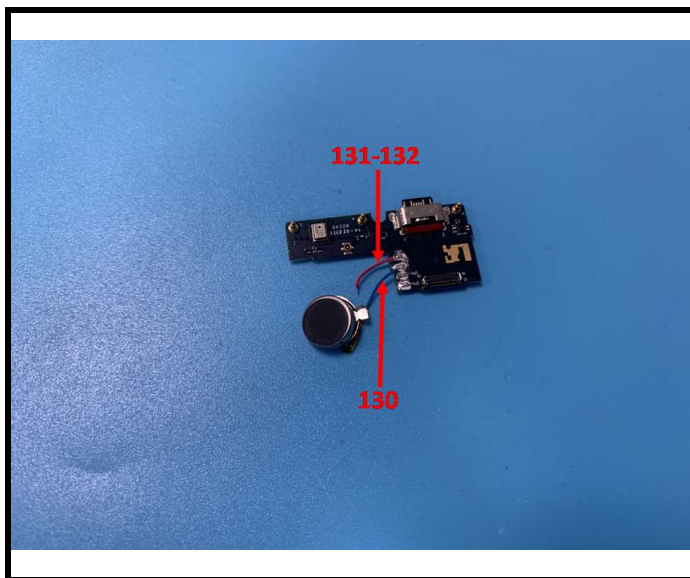
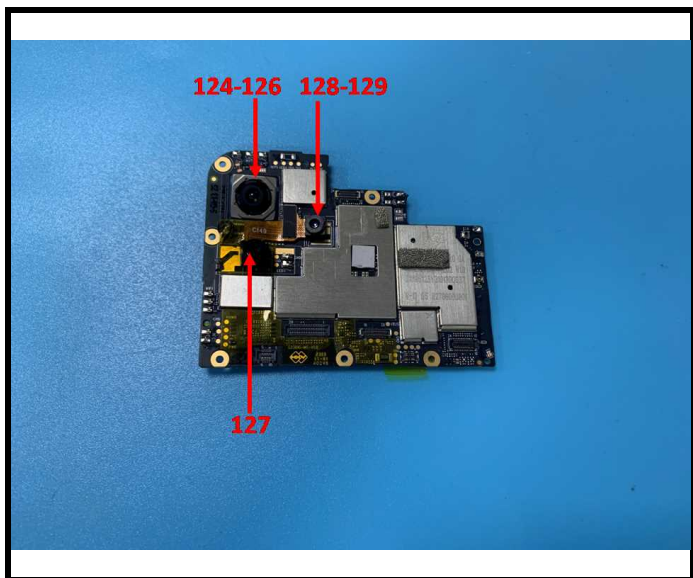
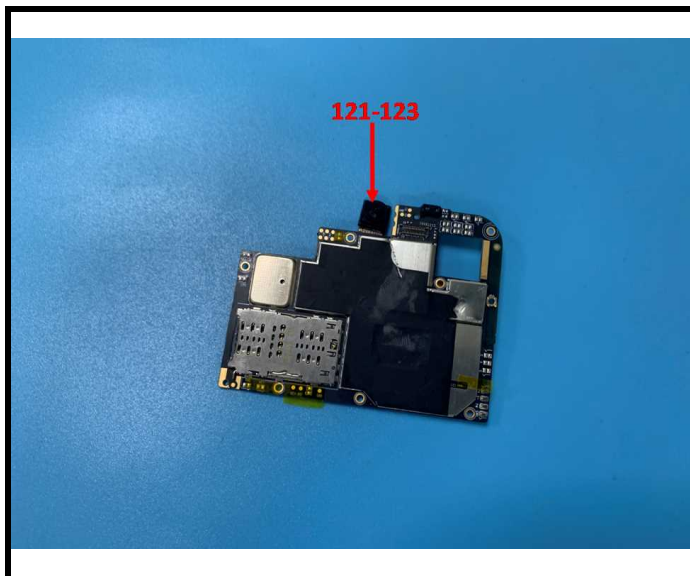
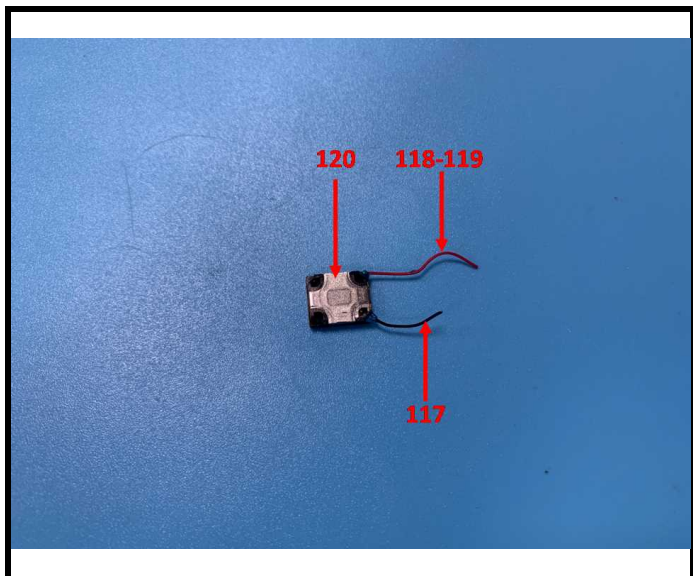


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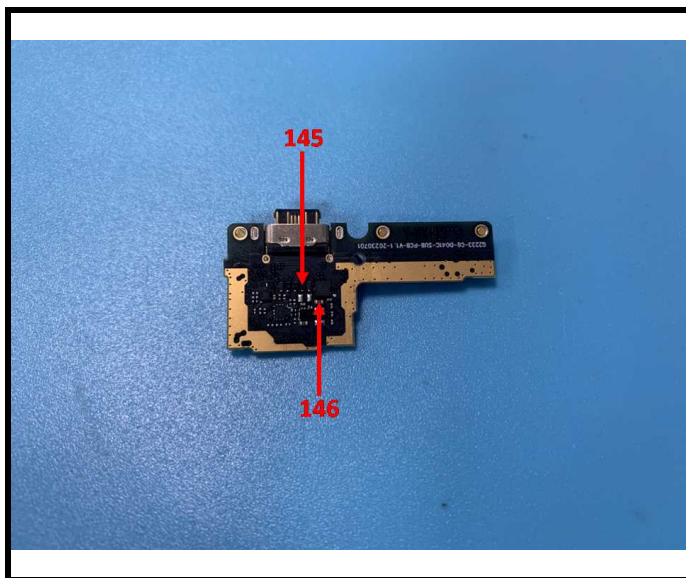
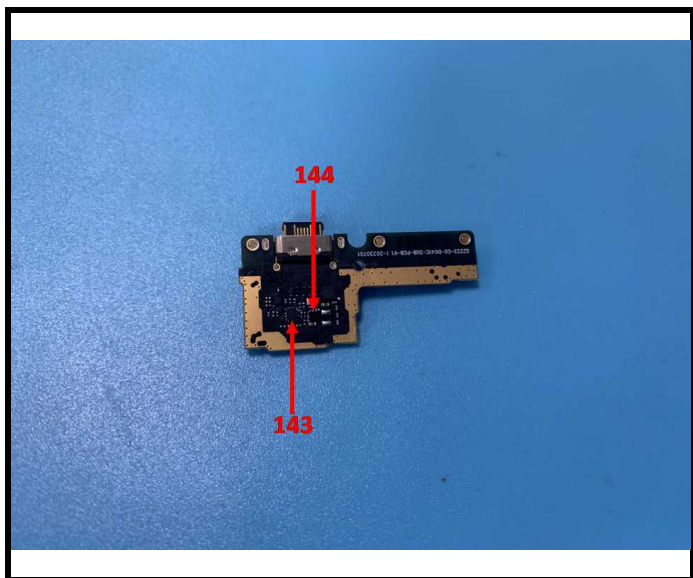
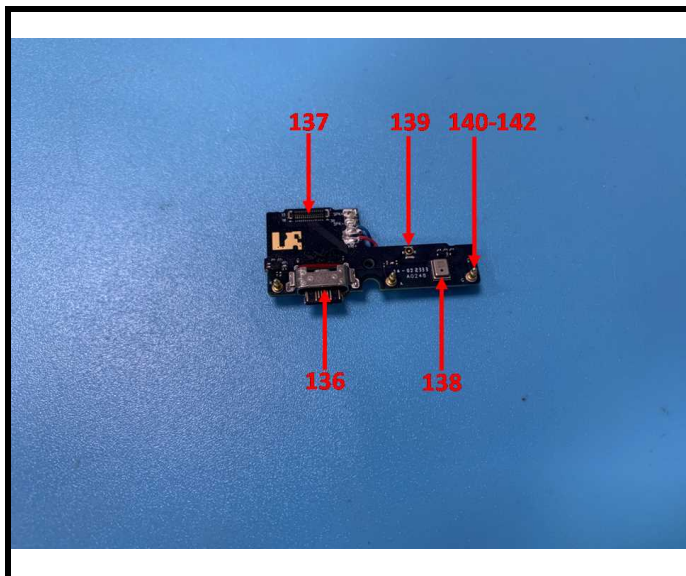
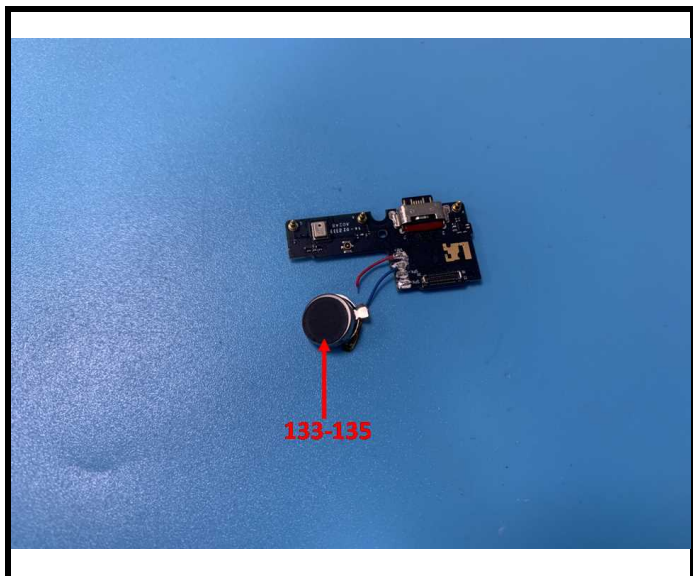


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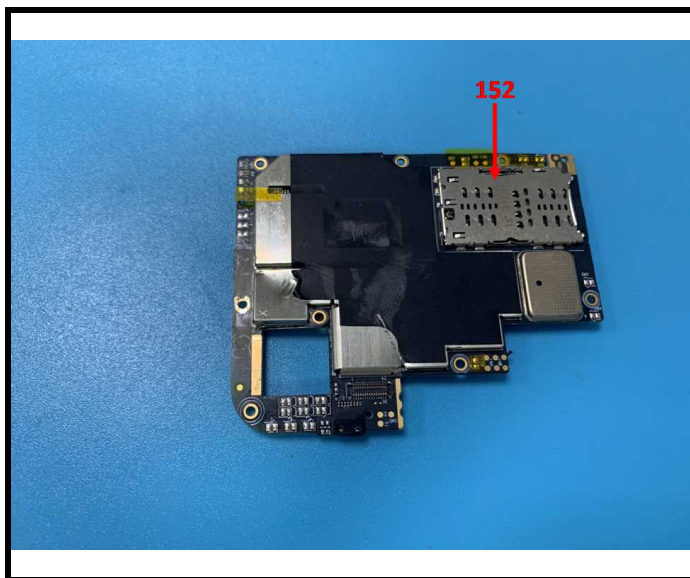
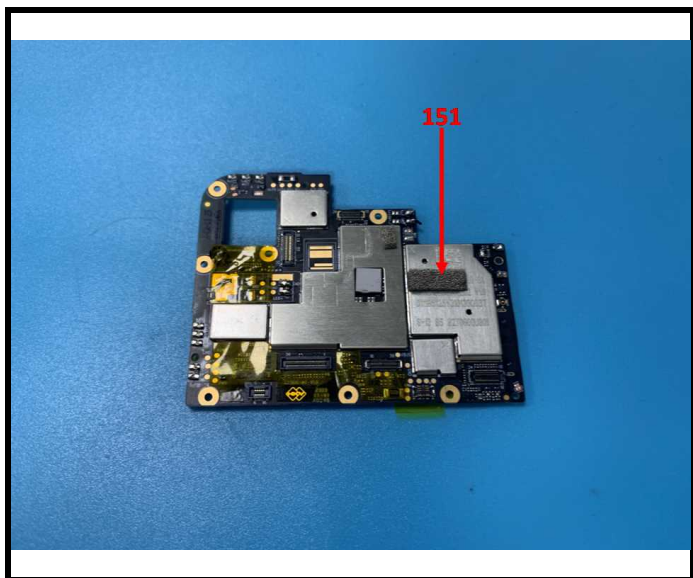
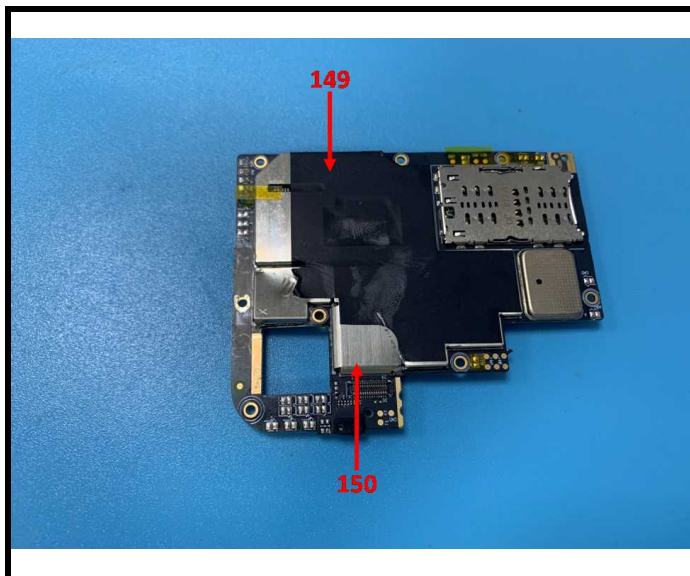
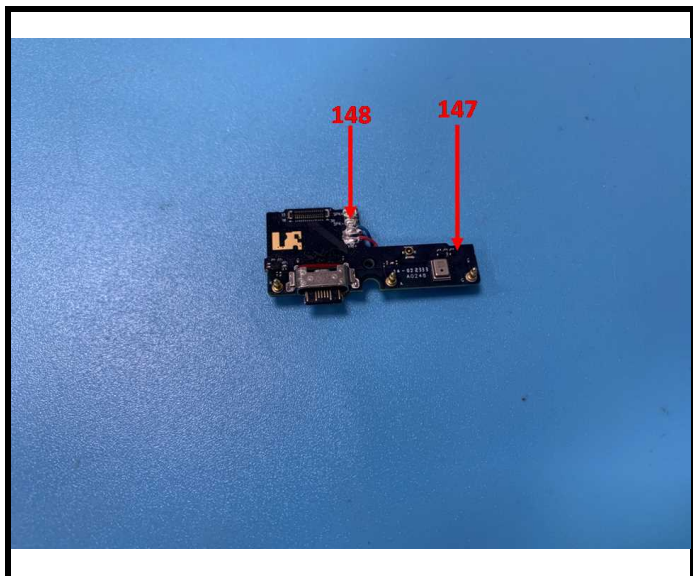


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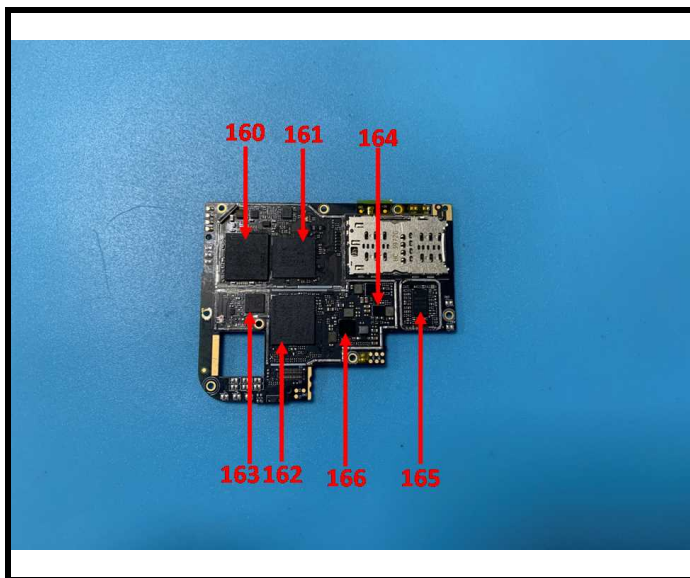
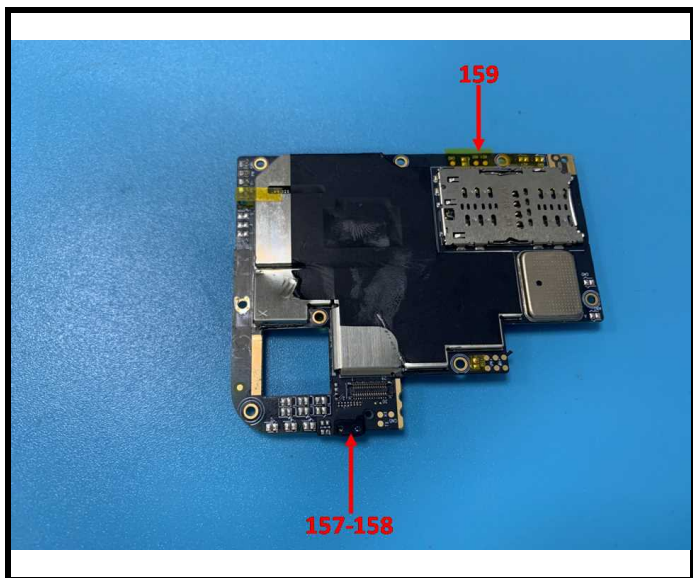
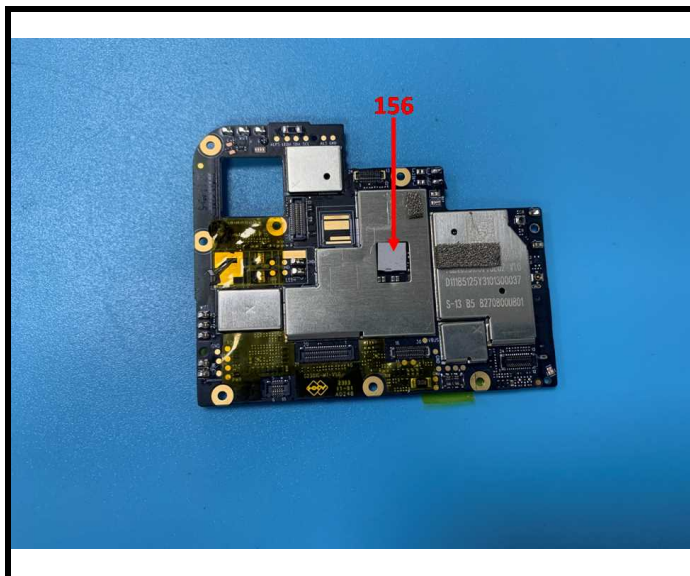
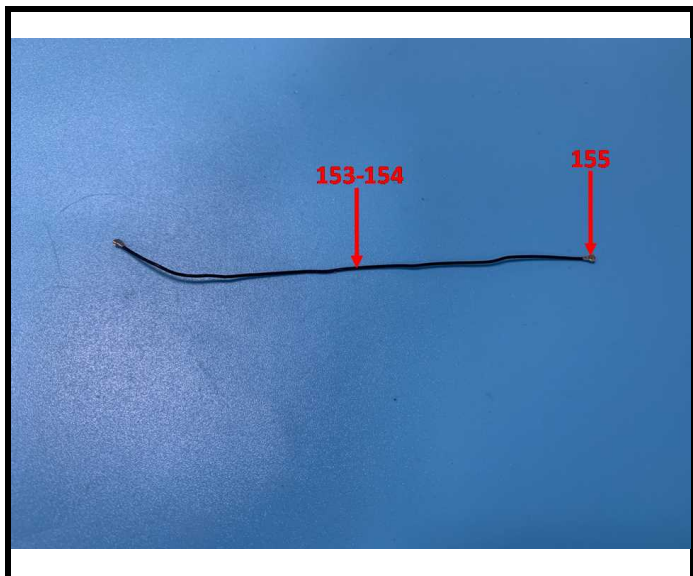


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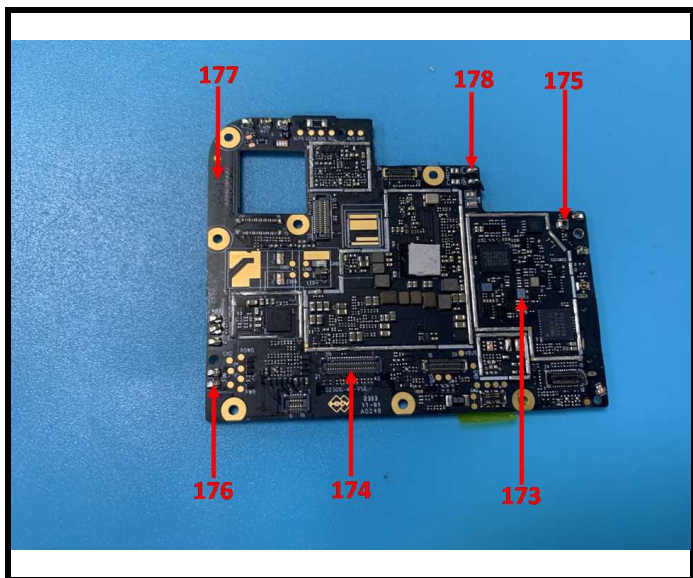
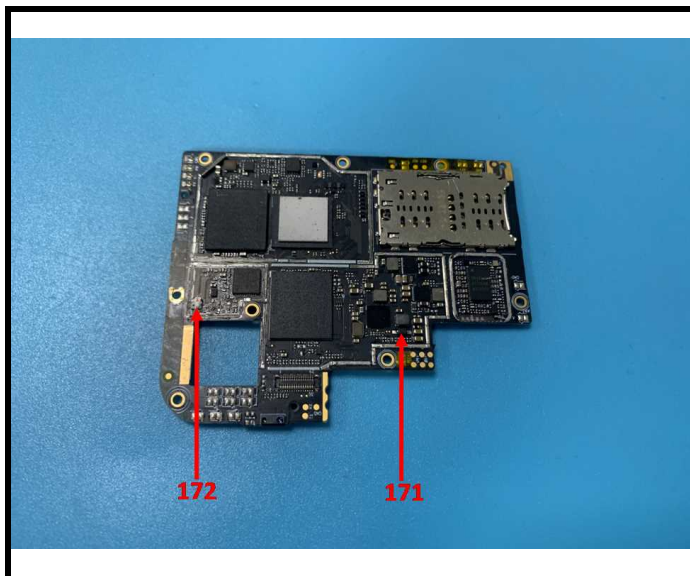
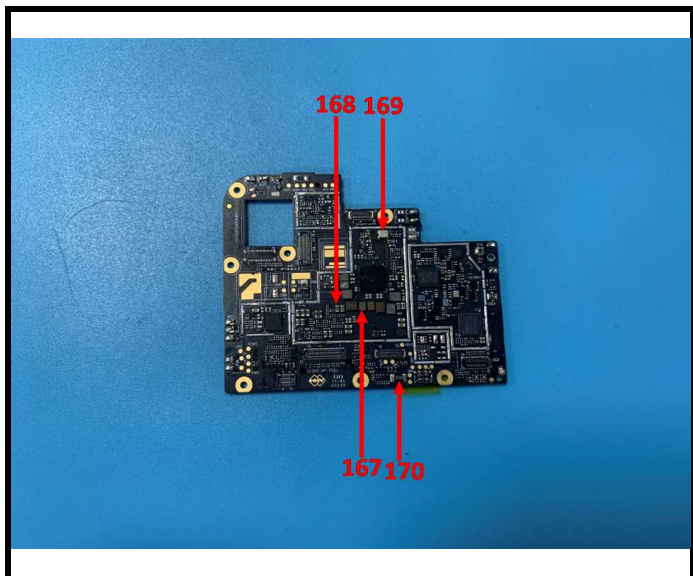


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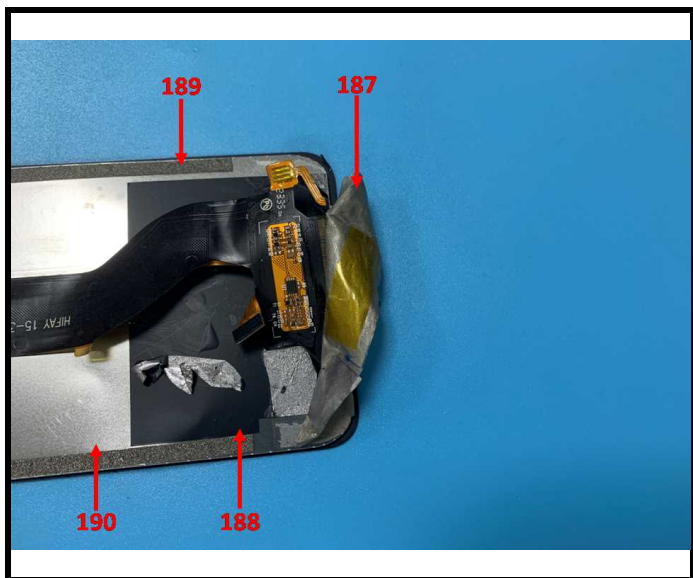
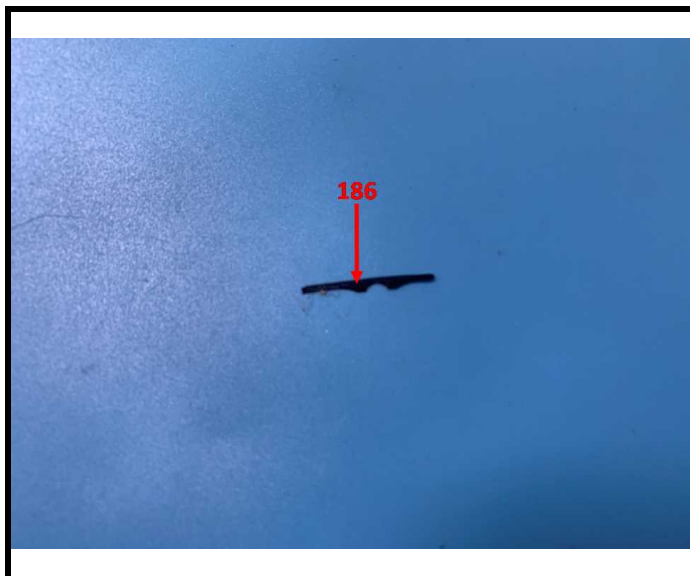
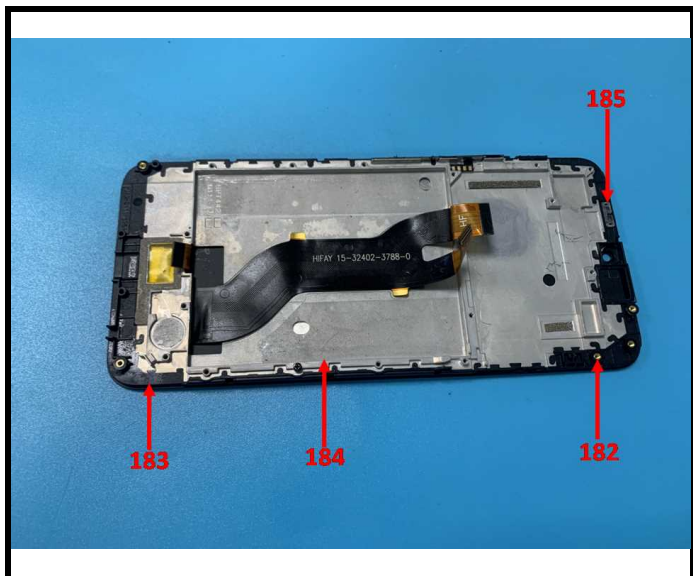


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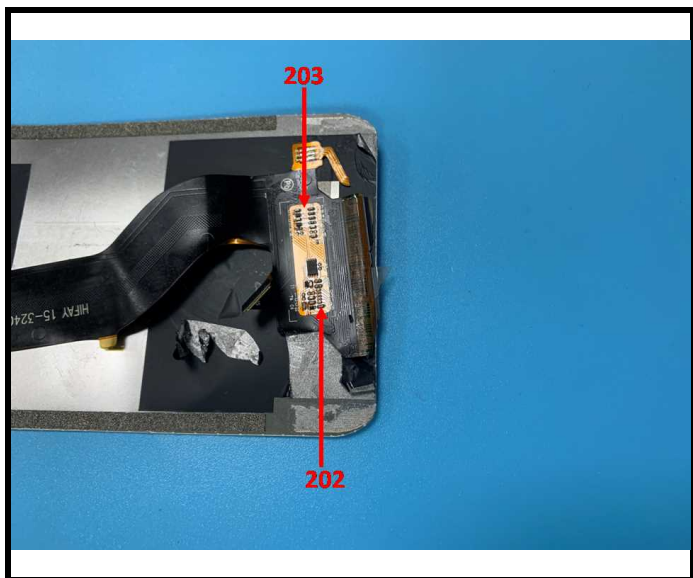
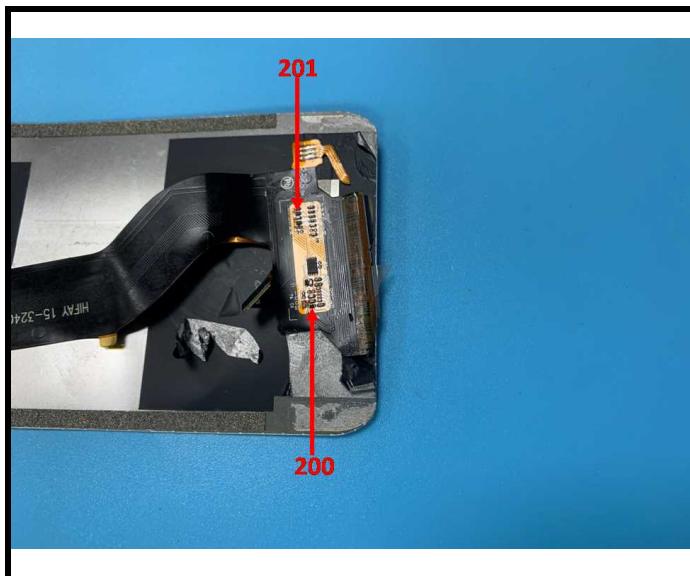
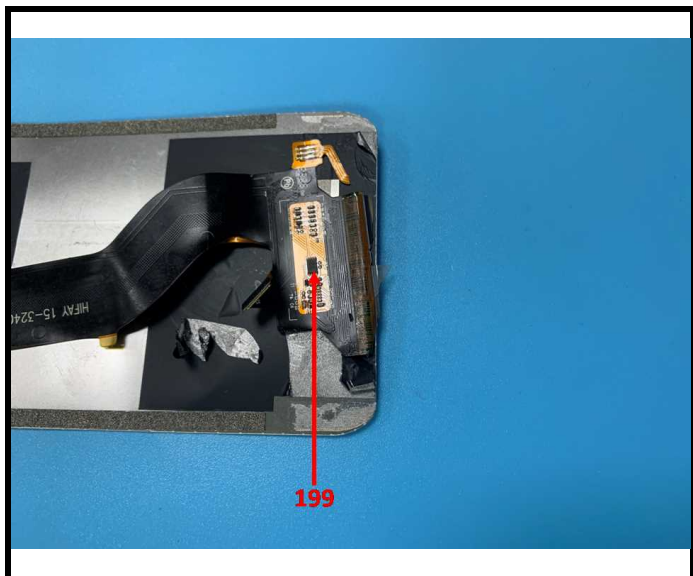


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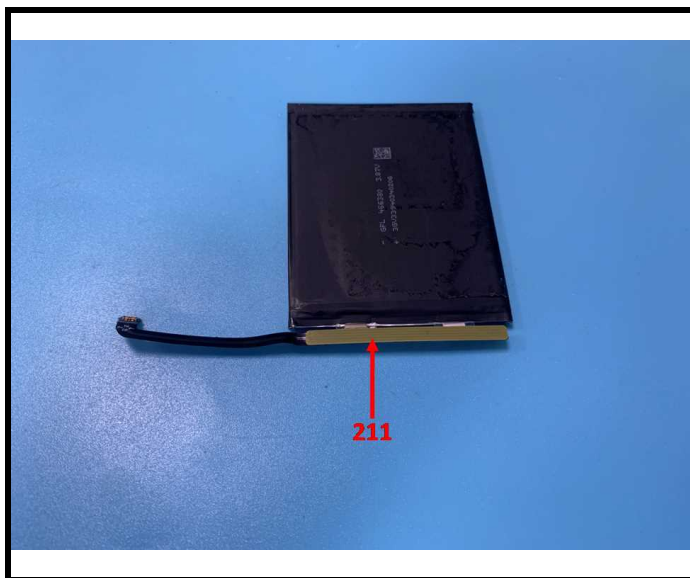
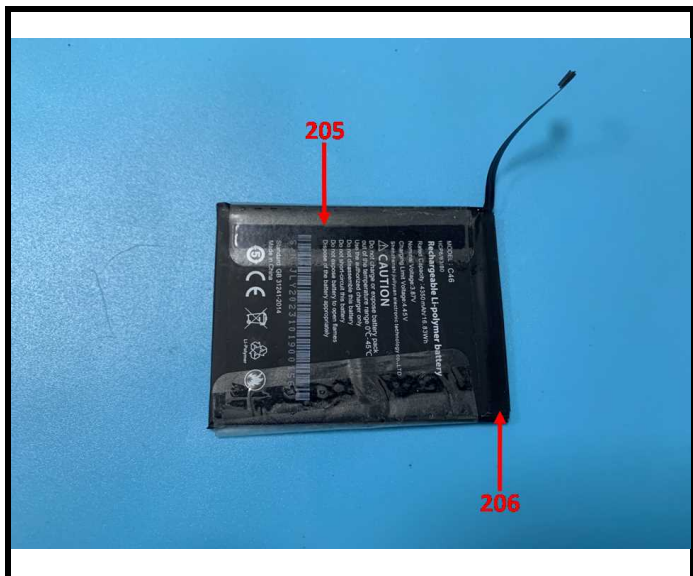


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Statement:

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- 2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
- 3.This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.
- 4.Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.
- 5.The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.
- 6.The test samples were in good condition before testing.

*** End of Report ***