



TEST REPORT

Report No.: 2501X79566E

Date: November 17, 2025

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M5Stack Technology Co.,Ltd

Block A10, Expo Bay South Coast, Fuhai Street, Bao'an District, Shenzhen, China

Report on the submitted samples said to be:

Sample Description: KANTAN Play Core
Manufacturer: M5Stack Technology Co., Ltd
Tested Style/Item No.: D054-KTPF
Additional Style/ Item No.: D054-KTPB

Remark: As claimed by the material declaration submitted by the client, the material of Additional Style/ Item No. are the same as the tested Style/ Item No. . But the results only for the tested sample. And the applicant will undertake all differences and risk.

Sample Receiving Date: September 27, 2025
Testing Period: September 27, 2025 - November 13, 2025
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:

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CONCLUSION

A As specified by client, selected materials (parts) in the submitted samples for 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 Wet Chemical Testing	
A.2.1 Chromium VI (Cr(VI)) Content	Pass
A.2.2 PBBs & PBDEs content	Pass
A.3 Phthalates (DBP, BBP, DEHP, DIBP) content	Pass

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A As specified by client, selected materials (parts) in the submitted samples for 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)	Clear glass with black/orange coating(display screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(2)	Grey plastic(frame, display screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(3)	White plastic(case, KANTAN Play Core)	BL	BL	BL	BL	BL
(4)	White plastic(button, KANTAN Play Core)	BL	BL	BL	BL	BL
(5)	Black plastic(button, KANTAN Play Core)	BL	BL	BL	BL	BL
(6)	Clear plastic(light, KANTAN Play Core)	BL	BL	BL	BL	BL
(7)	Black plastic(knob, KANTAN Play Core)	BL	BL	BL	BL	BL
(8)	Clear laminated black/grey printed white plastic(sticker, KANTAN Play Core)	BL	BL	BL	BL	BL
(9)	Clear laminated black/grey printed white plastic(sticker, frame, display screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(10)	Black plastic(adjusting gear, KANTAN Play Core)	BL	BL	BL	BL	BL
(11)	Silvery metal(loop, KANTAN Play Core)	BL	BL	BL	BL	---
(12)	Silvery metal(big screw, KANTAN Play Core)	BL	BL	BL	BL	---
(13)	Silvery metal(small screw, KANTAN Play Core)	BL	BL	BL	BL	---
(14)	Silvery metal(screw, PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(15)	Silvery metal(screw, PCB, display screen, KANTAN Play Core)	BL	BL	BL	BL	---
(16)	Silvery metal(screw, cover, PCB, display screen, KANTAN Play Core)	BL	BL	BL	BL	---
(17)	Golden metal(nut, frame, display screen, KANTAN Play Core)	BL	BL	BL	BL	---
(18)	Clear laminated multi-color printed white plastic(sticker, cover, PCB, display screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(19)	Silvery metal(cover, PCB, display screen, KANTAN Play Core)	BL	BL	BL	BL	---
(20)	White plastic(frame, screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(21)	Clear plastic(board, screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(22)	White/black printed brown plastic with coppery metal(FPC, screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(23)	Silvery solder(FPC, screen, KANTAN Play Core)	BL	BL	BL	BL	---
(24)	White body(LED, FPC, screen, KANTAN Play Core)	BL	BL	BL	BL	BL

Bay Area Compliance Laboratories Corp. (Shenzhen)

5/F. (B-West), 6&7/F., The 3rd Phase of Wanli Industrial Building D, Shihua Road, Fubao Community, Fubao Subdistrict, Futian District, Shenzhen, Guangdong, China

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(25)	White plastic(film, screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(26)	Black plastic(film, screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(27)	Clear silvery plastic(film, screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(28)	Silvery plastic(film, screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(29)	Translucent plastic(film, screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(30)	Black plastic with adhesive(tape, screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(31)	Clear black plastic(film, screen, KANTAN Play Core)	BL	BL	BL	BL	BL
(32)	Clear glass(screen, KANTAN Play Core)	BL	BL	BL	BL	---
(33)	Clear plastic with adhesive(tape, battery holder, KANTAN Play Core)	BL	BL	BL	BL	BL
(34)	Blue printed white plastic with coppery metal(wide flat cable, KANTAN Play Core)	BL	BL	BL	BL	BL
(35)	Blue printed white plastic with coppery metal(narrow flat cable, KANTAN Play Core)	BL	BL	BL	BL	BL
(36)	Black soft plastic(wire jacket, cable, small speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(37)	Red soft plastic(wire jacket, cable, small speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(38)	Silvery metal(wire, cable, small speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(39)	Clear yellow plastic(tape, small speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(40)	Black dry glue(on small speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(41)	Silvery solder(cable welding, small speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(42)	Black plastic(case, small speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(43)	Silvery metal(case, small speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(44)	Black fabric(mesh, small speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(45)	Black plastic with adhesive(tape, small speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(46)	Silvery metal(cover, small speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(47)	Green printed clear plastic(film, small speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(48)	Coppery metal(coil, small speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(49)	Silvery metal(plate, small speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(50)	Silvery magnet(small speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(51)	White plastic(plug, cable, big speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(52)	Silvery metal(contact plate, plug, cable, big speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(53)	Black soft plastic(wire jacket, cable, big speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(54)	Red soft plastic(wire jacket, cable, big speaker, KANTAN Play Core)	BL	BL	BL	BL	BL

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(55)	Silvery metal(wire, cable, big speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(56)	Black dry glue(cable holder, big speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(57)	Black plastic(shell, big speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(58)	White plastic with adhesive(tape, case, big speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(59)	Black plastic(case, big speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(60)	Black EVA(pad, big speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(61)	Silvery metal(case, big speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(62)	Silvery solder(cable welding, big speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(63)	Black soft plastic(cover, big speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(64)	Black paper(cover, big speaker, KANTAN Play Core)	BL	BL	BL	BL	BL
(65)	Copperry metal(coil, big speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(66)	Silvery metal(plate, big speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(67)	Silvery magnet(big speaker, KANTAN Play Core)	BL	BL	BL	BL	---
(68)	White plastic(plug, cable, battery, KANTAN Play Core)	BL	BL	BL	BL	BL
(69)	Silvery metal(contact plate, plug, cable, battery, KANTAN Play Core)	BL	BL	BL	BL	---
(70)	Black soft plastic(wire jacket, cable, battery, KANTAN Play Core)	BL	BL	BL	BL	BL
(71)	Red soft plastic(wire jacket, cable, battery, KANTAN Play Core)	BL	BL	BL	BL	BL
(72)	Silvery metal(wire, cable, battery, KANTAN Play Core)	BL	BL	BL	BL	---
(73)	Clear brown plastic(tape, battery, KANTAN Play Core)	BL	BL	BL	BL	BL
(74)	Silvery metal(connect plate, PCB, battery, KANTAN Play Core)	BL	BL	BL	BL	---
(75)	Black body(big IC, PCB, battery, KANTAN Play Core)	BL	BL	BL	BL	BL
(76)	Black body(small IC, PCB, battery, KANTAN Play Core)	BL	BL	BL	BL	BL
(77)	Brown body(SMD capacitor, PCB, battery, KANTAN Play Core)	BL	BL	BL	BL	BL
(78)	Black body(SMD resistor, PCB, battery, KANTAN Play Core)	BL	BL	BL	BL	BL
(79)	Silvery solder(SMT, PCB, battery, KANTAN Play Core)	BL	BL	BL	BL	---
(80)	Silvery solder(cable welding, PCB, battery, KANTAN Play Core)	BL	BL	BL	BL	---
(81)*	Green/white coated white plastic with copperry metal(PCB, battery, KANTAN Play Core)	BL	BL	BL	BL	X
(82)	Black plastic(case, knob, knob PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(83)	White plastic(connector, knob PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(84)	Black plastic(connector, knob PCB, KANTAN Play Core)	BL	BL	BL	BL	BL

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(85)	Silvery metal(contact plate, connector, knob PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(86)	Silvery metal(case, knob, knob PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(87)	Black plastic(button, knob, knob PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(88)	Black plastic(case, knob, knob PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(89)	Silvery metal(spring, knob, knob PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(90)	Silvery metal(contact plate, knob, knob PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(91)	Silvery solder(knob PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(92)*	Green/white coated brown plastic with coppery metal(knob PCB, KANTAN Play Core)	BL	BL	BL	BL	X
(93)	Black printed white plastic(sticker, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(94)	Black plastic(case, headphone jack, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(95)	Golden metal(case, headphone jack, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(96)	Beige plastic(speaker jack, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(97)	Silvery metal(pin, speaker jack, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(98)	Beige plastic(battery jack, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(99)	Silvery metal(pin, battery jack, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(100)	White plastic(flat cable connector, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(101)	Black plastic(flat cable connector, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(102)	Silvery metal(flat cable connector, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(103)	Black plastic(button, small switch, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(104)	Black plastic(case, small switch, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(105)	Silvery metal(case, small switch, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(106)	Silvery metal(contact plate, small switch, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(107)	Silvery metal(pin, small switch, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(108)	Black printed silvery body(capacitor, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(109)	Black plastic(base, capacitor, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(110)	Grey printed black body(biggest IC, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(111)	Grey printed black body(big IC, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(112)	Grey printed black body(medium IC, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(113)	Grey printed black body(small IC, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(114)	Grey printed black body(smallest IC, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(115)	Black body(IC, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(116)	Black body(big SMD triode, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(117)	Black body(small SMD triode, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(118)	Black body(SMD diode, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(119)	Brown printed yellow body(inductor, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(120)	Silvery body(big SMD crystal, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(121)	Silvery body(small SMD crystal, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(122)	Brown body(big SMD capacitor, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(123)	Brown body(medium SMD capacitor, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(124)	Brown body(small SMD capacitor, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(125)	Black/white body(SMD resistor, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(126)	Black body(SMD resistor, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(127)	Black plastic(button, big switch, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(128)	Black plastic(case, big switch, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(129)	Silvery metal(case, big switch, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(130)	Silvery metal(contact plate, big switch, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(131)	Silvery metal(pin, big switch, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(132)	White body(LED, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(133)	Silvery solder(THT, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(134)	Silvery solder(SMT, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(135)*	Green/white coated brown plastic with coppery metal(keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	X
(136)	Silvery metal(cover, knob, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(137)	Silvery metal(knob, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(138)	Silvery metal(case, knob, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(139)	Cyan plastic(rotor, knob, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(140)	Black plastic(inner case, knob, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(141)	Silvery metal(contact plate, knob, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(142)	Cyan plastic(base, knob, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(143)	Silvery metal(spring plate, knob, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(144)	Silvery metal(brush, knob, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(145)	Silvery metal(pin, knob, keypad PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(146)	White plastic(big flat cable connector, main PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(147)	Black plastic(big flat cable connector, main PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(148)	Silvery metal(big flat cable connector, main PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(149)	White plastic(small flat cable connector, main PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(150)	Black plastic(small flat cable connector, main PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(151)	Silvery metal(small flat cable connector, main PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(152)	Black plastic(black jack, main PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(153)	Silvery metal(pin, black jack, main PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(154)	Blue plastic(blue jack, main PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(155)	Silvery metal(pin, blue jack, main PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(156)	Black plastic(button, knob, main PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(157)	Black plastic(case, knob, main PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(158)	Silvery metal(cover, knob, main PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(159)	Silvery metal(washer, knob, main PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(160)	Silvery metal(contact plate, knob, main PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(161)	Silvery metal(pin, knob, main PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(162)	Silvery metal(brush, knob, main PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(163)	Brown body(big SMD capacitor, main PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(164)	Silvery solder(SMT, main PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(165)	Silvery solder(THT, main PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(166)	Black plastic(connector, main PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(167)	Silvery metal(pin, connector, main PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(168)*	Green/white coated brown plastic with coppery metal(main PCB, KANTAN Play Core)	BL	BL	BL	BL	X
(169)	Silvery metal(cover, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(170)	Black body(SMD resistor, main PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(171)	Black printed white plastic(sticker, SD card socket, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(172)	Silvery metal(cover, SD card socket, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(173)	Black plastic(SD card socket, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(174)	Silvery metal(contact plate, SD card socket, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(175)	Clear brown plastic(tape, switch, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(176)	Black plastic(button, switch, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(177)	Black plastic(case, switch, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(178)	Silvery metal(case, switch, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(179)	Silvery metal(contact plate, switch, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(180)	Silvery metal(pin, switch, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(181)	Wine plastic(big jack, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(182)	Silvery metal(pin, big jack, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(183)	Off white plastic(medium jack, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(184)	Silvery metal(pin, medium jack, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(185)	Beige plastic(small jack, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(186)	Silvery metal(pin, small jack, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(187)	Silvery metal(case, USB jack, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(188)	Silvery metal(pin, USB jack, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(189)	Black plastic(insulator, USB jack, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(190)	Pink printed silvery body(capacitor, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(191)	Black plastic(base, capacitor, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(192)	Black plastic(connector, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(193)	Silvery metal(connector, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(194)	Grey printed black body(biggest square IC, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(195)	Grey printed black body(big square IC, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(196)	Grey printed black body(medium square IC, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(197)	Grey printed black body(small square IC, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(198)	Grey printed black body(smallest square IC, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(199)	Grey printed black body(big rectangle IC, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(200)	Grey printed black body(small rectangle IC, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(201)	Black body(IC, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(202)	Silvery body(big SMD crystal, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(203)	Silvery body(small SMD crystal, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(204)	Brown body(big SMD inductor, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(205)	Brown body(small SMD inductor, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(206)	Black body(SMD diode, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(207)	White body(SMD LED, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(208)	Brown body(big SMD capacitor, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(209)	Brown body(small SMD capacitor, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(210)	Black body(SMD resistor, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(211)	White plastic(big flat cable connector, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(212)	Black plastic(big flat cable connector, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(213)	Silvery metal(big flat cable connector, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(214)	White plastic(small flat cable connector, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(215)	Black plastic(small flat cable connector, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(216)	Silvery metal(small flat cable connector, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(217)	Black/brown body(IC, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(218)	Grey body(SMD inductor, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(219)	White body(SMD capacitor, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	BL
(220)	Silvery solder(THT, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(221)	Silvery solder(SMT, screen PCB, KANTAN Play Core)	BL	BL	BL	BL	---
(222)*	Black/white coated brown plastic with coppery metal(screen PCB, KANTAN Play Core)	BL	BL	BL	BL	X
(223)	Silvery metal(USB plug, USB cable)	BL	BL	BL	BL	---
(224)	White plastic(insulator, USB plug, USB cable)	BL	BL	BL	BL	BL
(225)	Golden metal(pin, USB plug, USB cable)	BL	BL	BL	BL	---
(226)	Translucent plastic(inner, USB plug, USB cable)	BL	BL	BL	BL	BL
(227)	Black soft plastic(case, USB plug, USB cable)	BL	BL	BL	BL	BL
(228)	Black soft plastic(cable jacket, USB cable)	BL	BL	BL	BL	BL
(229)	Black soft plastic(wire jacket, cable, USB cable)	BL	BL	BL	BL	BL
(230)	Green soft plastic(wire jacket, cable, USB cable)	BL	BL	BL	BL	BL
(231)	Red soft plastic(wire jacket, cable, USB cable)	BL	BL	BL	BL	BL
(232)	White soft plastic(wire jacket, cable, USB cable)	BL	BL	BL	BL	BL
(233)	Golden metal(wire, cable, USB cable)	BL	BL	BL	BL	---

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Seq No.	Tested Part(s)	Result				
		Pb	Cd	Hg	Cr	Br
(234)*	Silvery metal(type-C plug, USB cable)	BL	BL	BL	X	---
(235)	Black plastic(insulator, type-C plug, USB cable)	BL	BL	BL	BL	BL
(236)	Silvery metal(pin, type-C plug, USB cable)	BL	BL	BL	BL	---
(237)	Translucent plastic(inner, type-C plug, USB cable)	BL	BL	BL	BL	BL
(238)	Black body(SMD resistor, PCB, type-C plug, USB cable)	BL	BL	BL	BL	BL
(239)	Silvery solder(PCB, type-C plug, USB cable)	BL	BL	BL	BL	---
(240)*	Green/white coated white plastic with coppery metal(PCB, type-C plug, USB cable)	BL	BL	BL	BL	X
(241)	Black soft plastic(case, type-C plug, USB cable)	BL	BL	BL	BL	BL
(242)	Brown body(small SMD capacitor, main PCB, KANTAN Play Core)	BL	BL	BL	BL	BL

Note:
 --- = Not Applicable.
 * = Screening by XRF and detected by chemical method. The test result of chemical method please refer to next pages.

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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/X = 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:

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 Wet Chemical Testing

A.2.1 Chromium VI (Cr(VI)) Content

Chromium VI (Cr(VI)) Content(In metal)

Test method: IEC 62321-7-1:2015

Item	Unit	MDL	Result	Limit
			(234)	
hexavalent chromium(Cr(VI))	µg/cm ²	0.10	N.D.	See Remark
Conclusion	/	/	Pass	/

Limit Remark:

- The sample is positive for CrVI if the CrVI concentration is greater than 0.13µg/cm². The sample coating is considered to contain CrVI
 - The sample is negative for CrVI if CrVI is ND (concentration less than 0.10µg/cm²). The coating is onsidered a non-CrVI based coating
 - The result between 0.10µg/cm² and 0.13µg/cm² is considered to be inconclusive -unavoidable coating variations may influence the determination
- For corrosion protection coatings on metals: Information on storage conditions and production date of the tested sample is unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

A.2.2 PBBs & PBDEs content

Test method: IEC 62321-6:2015

Item	Unit	MDL	Result						Limit
			(81)	(92)	(135)	(168)	(222)	(240)	
Monobromobiphenyl (MonoBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromobiphenyl(DiBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromobiphenyl(TriBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tetrabromobiphenyl(TetraBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromobiphenyl(PentaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Hexabromobiphenyl(HexaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Heptabromobiphenyl (HeptaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Octabromobiphenyl(OctaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromobiphenyl(NonaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromobiphenyl(DecaBB)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromodiphenyl ether (DiBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromodiphenyl ether (TriBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-

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Item	Unit	MDL	Result						Limit
			(81)	(92)	(135)	(168)	(222)	(240)	
Tetrabromodiphenyl ether (TetraBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Hexabromodiphenyl ether (HexaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/kg	50	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	-
sum of MonoBDE, DiBDE, TriBDE, TetraBDE, PentaBDE, HexaBDE, HeptaBDE, OctaBDE, NonaBDE, DecaBDE	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
sum of MonoBB, DiBB, TriBB, TetraBB, PentaBB, HexaBB, HeptaBB, OctaBB, NonaBB, DecaBB	mg/kg	-	N.D.	N.D.	N.D.	N.D.	N.D.	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

A.3 Phthalates(DBP, BBP, DEHP, DIBP)content

Test method: IEC 62321-8:2017

Item	Unit	MDL	Result						Limit
			(1)	(2)+(3)+(4)	(5)+(6)+(7)	(8)+(9)+(10)	(18)+(33)+(73)	(20)+(21)+(22)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	35	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.	37	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
			(24)+(25)+(26)	(27)+(28)+(29)	(30)+(31)+(34)	(35)+(39)+(40)	(36)+(37)	(42)+(45)+(47)	
Dibutyl Phthalate(DBP)	mg/kg	30	N.D.	N.D.	N.D.	N.D.	46	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
			(51)+(56)+(59)	(53)+(54)	(57)+(58)	(60)+(63)+(68)	(70)+(71)	(75)+(76)+(77)	
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.	33	85	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
			(78)+(83)+(84)	(81)+(92)	(82)+(94)	(87)+(88)+(93)	(96)+(98)+(100)	(101)+(103)+(104)	
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
			(108)+(109)+(110)	(111)+(112)+(113)	(114)+(115)+(116)	(117)+(118)+(119)	(120)+(121)+(122)	(123)+(124)+(125)	
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
			(126)+(127) +(128)	(132)+(139) +(140)	(135)+(168)	(142)+(146) +(147)	(149)+(150) +(156)	(152)+(154)	
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
			(157)+(163) +(166)	(170)+(242)	(171)+(173) +(175)	(176)+(177) +(181)	(183)+(185) +(189)	(190)+(191) +(192)	
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
			(194)+(195) +(196)	(197)+(198) +(199)	(200)+(201) +(202)	(203)+(204) +(205)	(206)+(207) +(208)	(209)+(210) +(211)	
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
			(212)+(214)+(215)	(217)+(218)+(219)	(222)+(240)	(224)+(226)+(237)	
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	/

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Item	Unit	MDL	Result				Limit
			(227)+(228)+(229)	(230)+(231)+(232)	(235)+(238)	(241)	
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	46	37	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	/

Note:

- N.D.= Not Detected or less than MDL

- MDL = Method Detection Limit

- "+" = Composite testing.

-The Result less than MDL are not taken into account while calculating the sum contents.

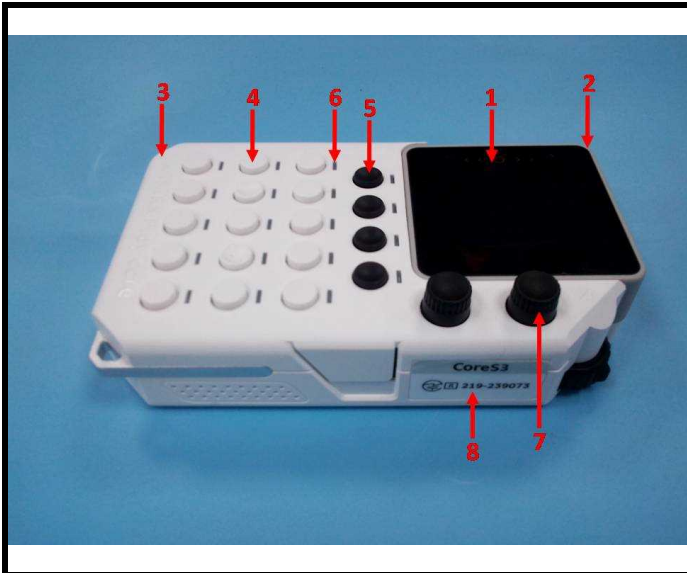
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Photograph of Sample

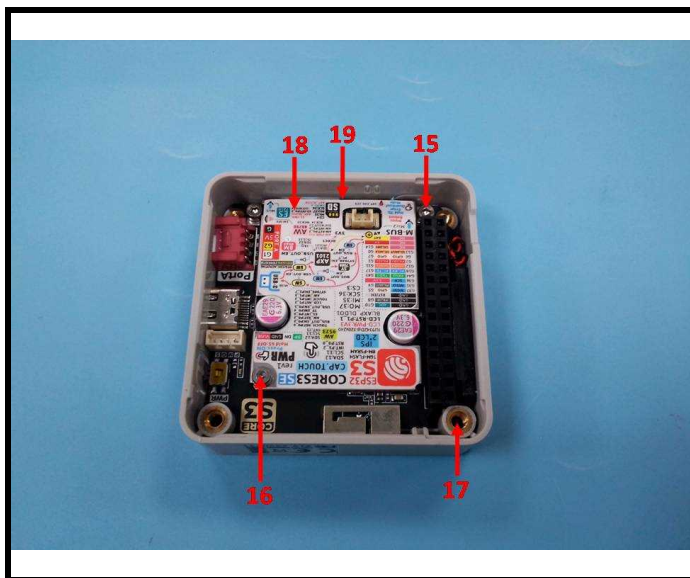
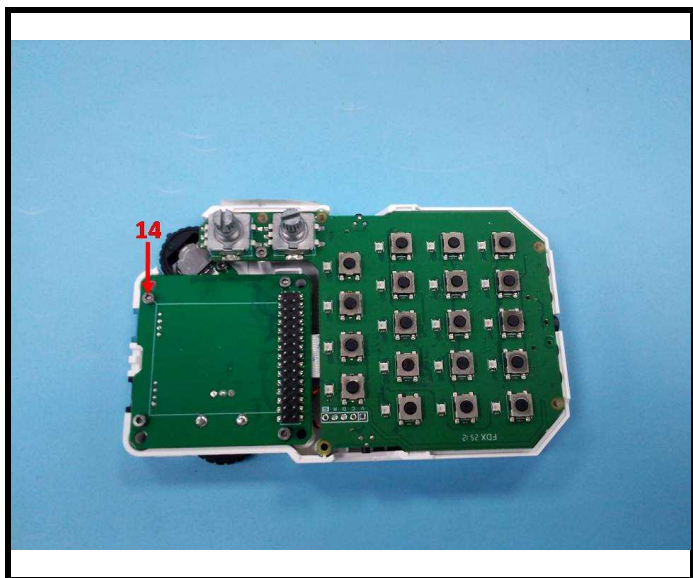
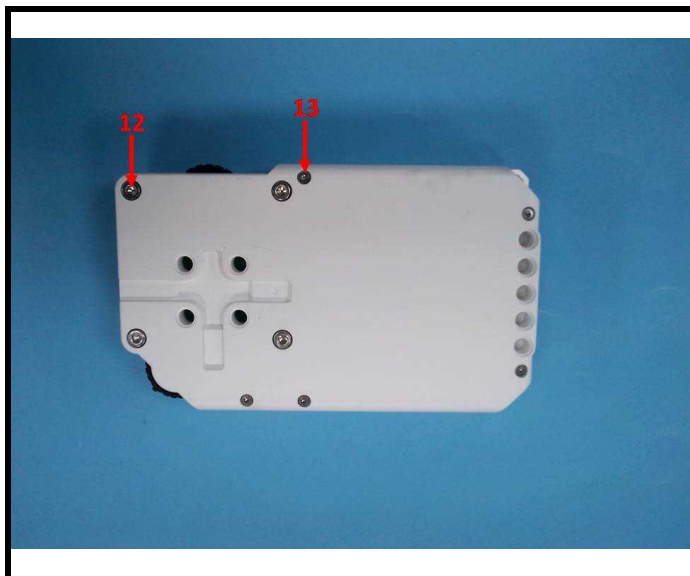


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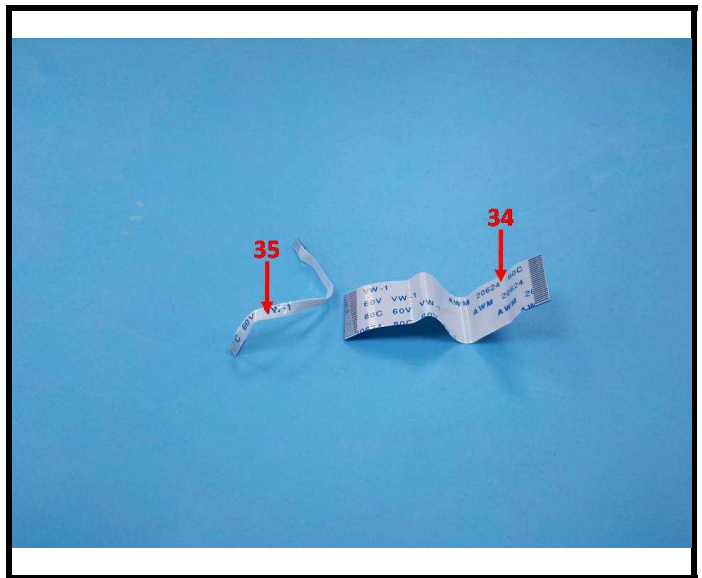
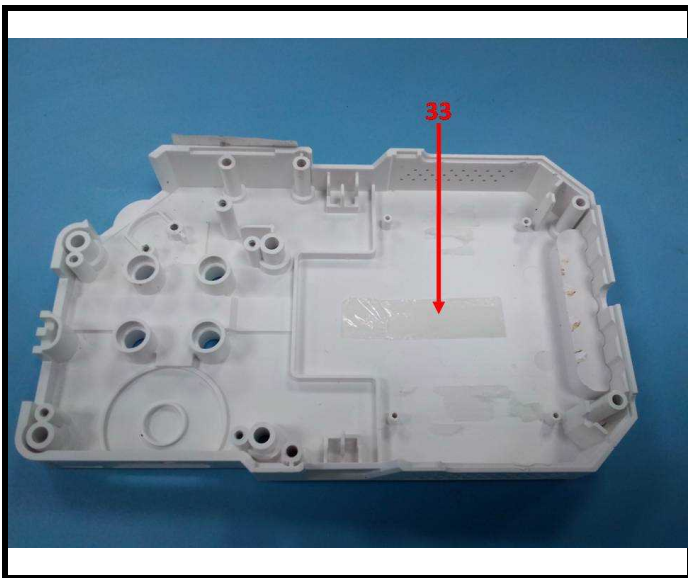
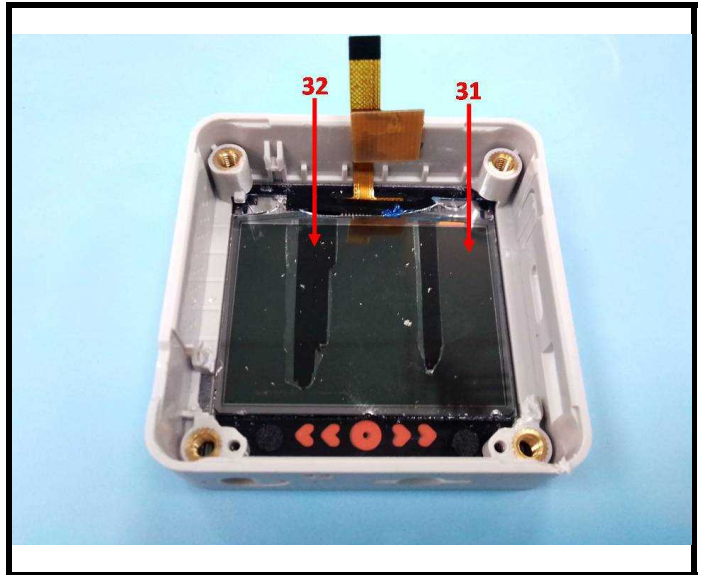
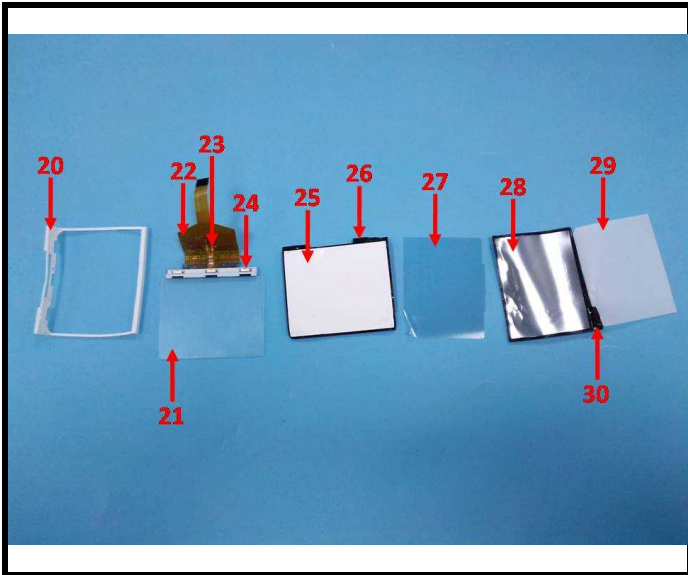


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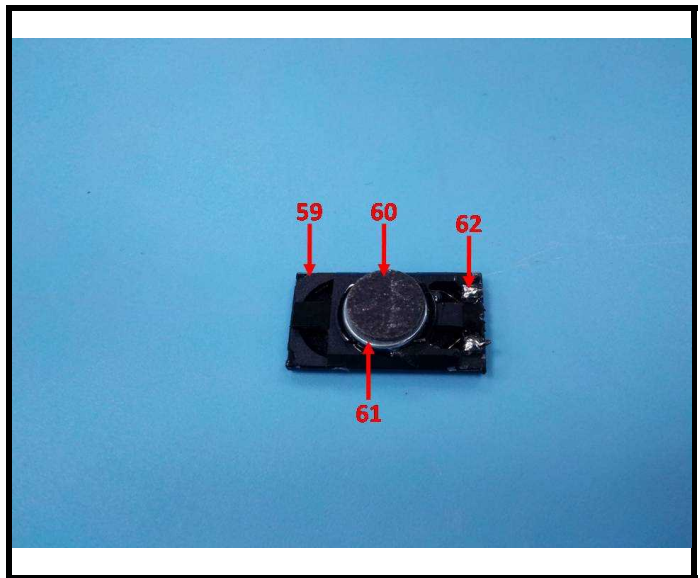
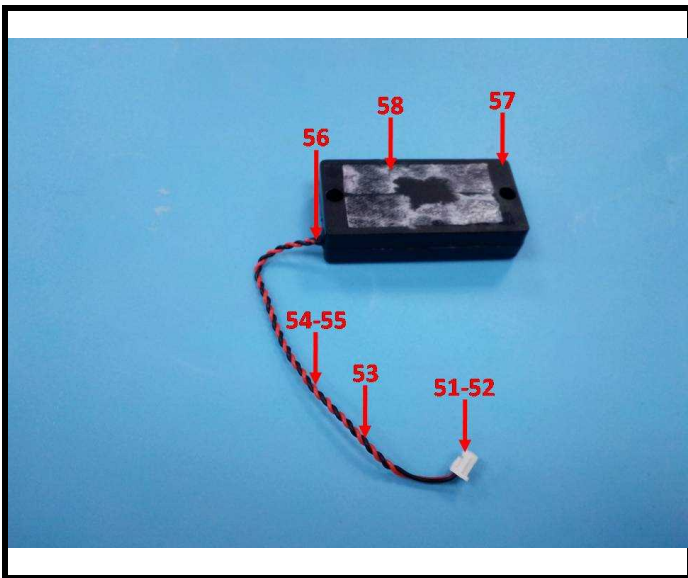
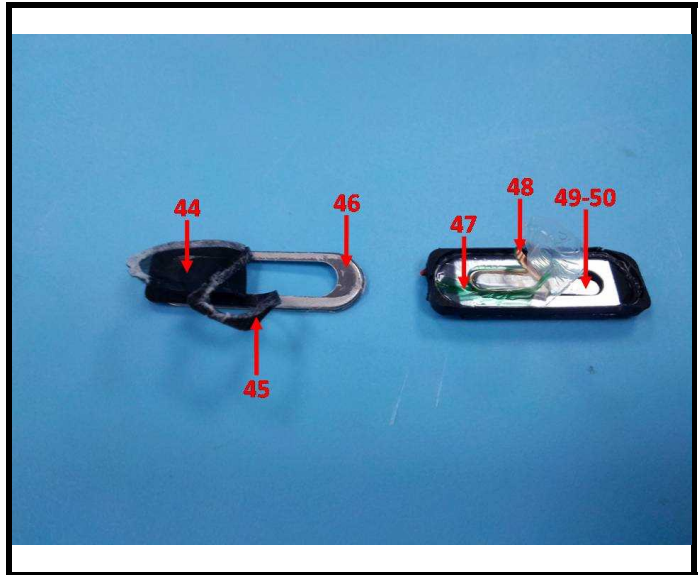
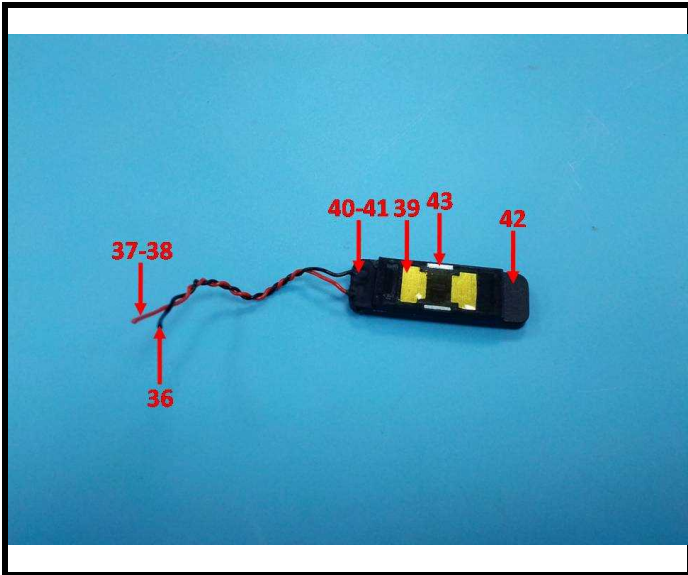


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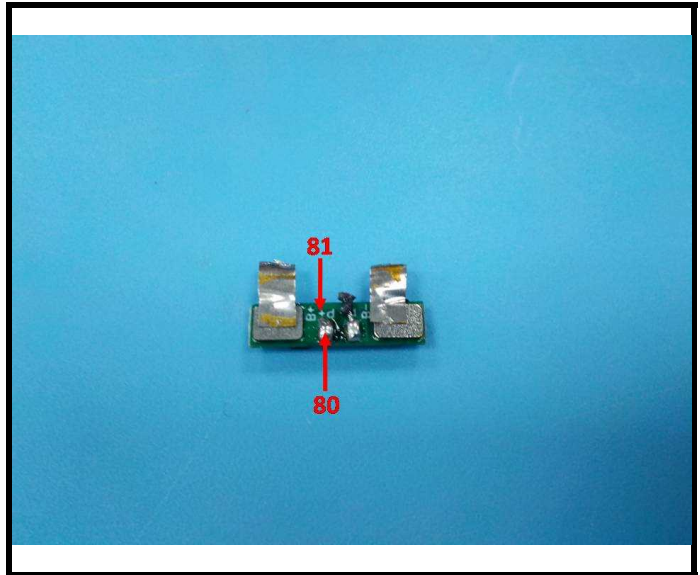
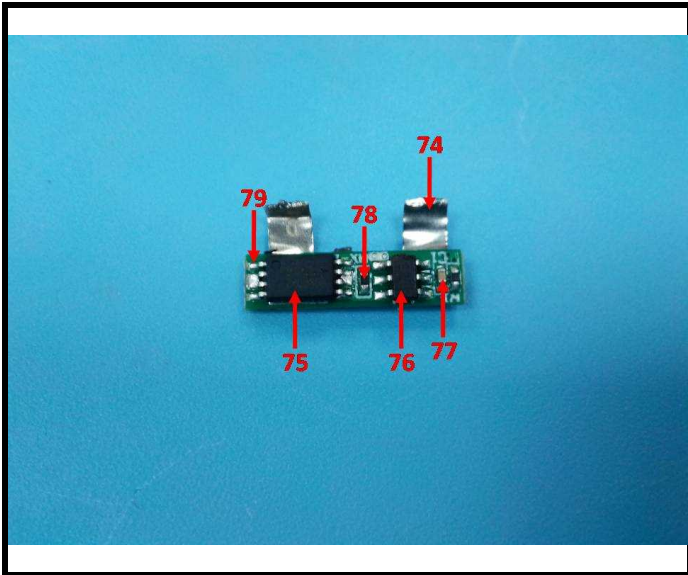
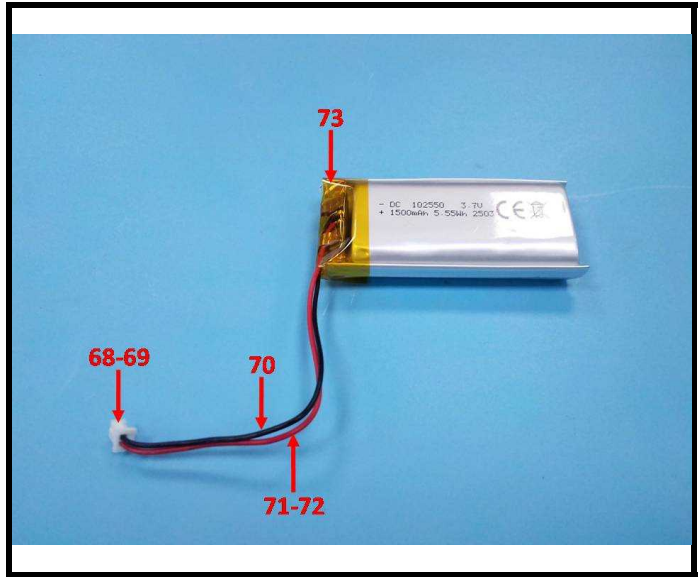
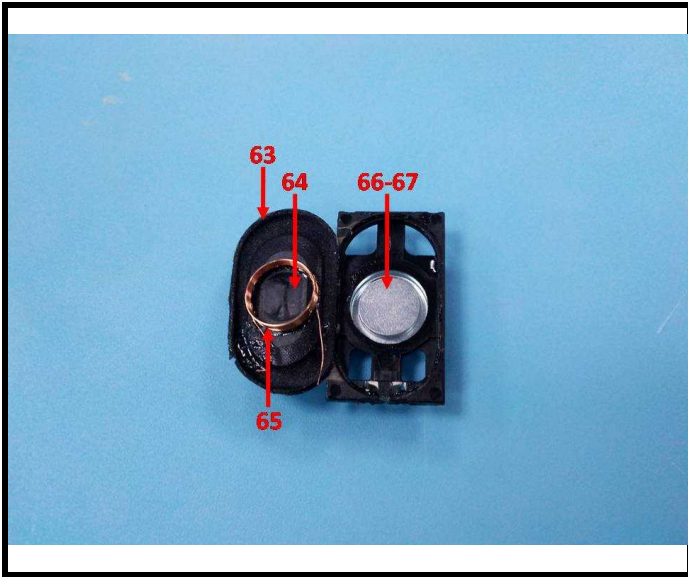


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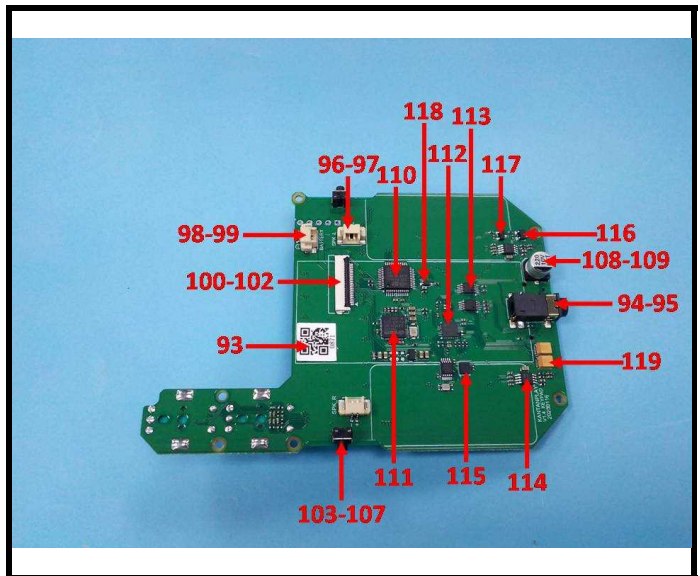
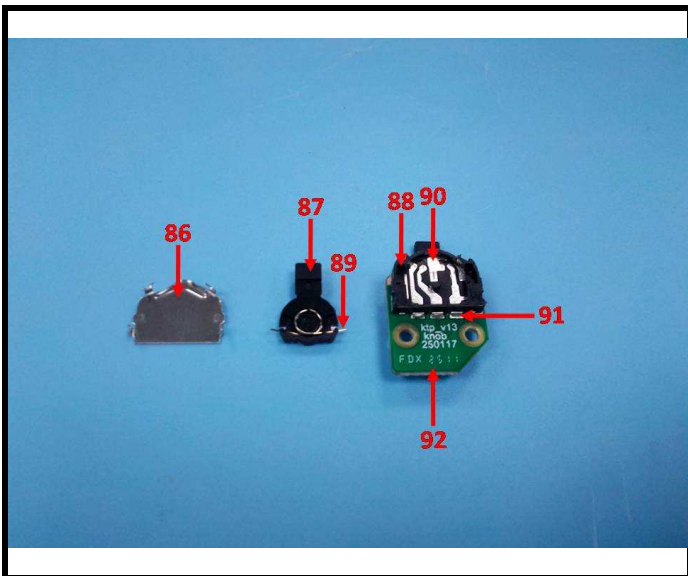
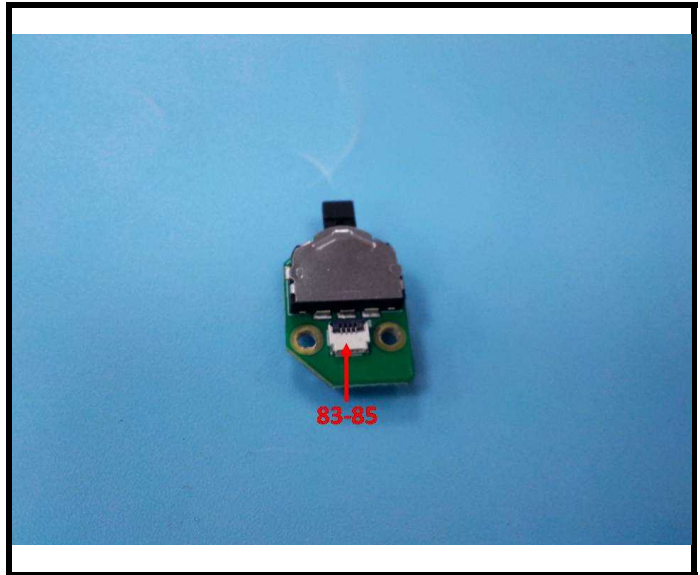
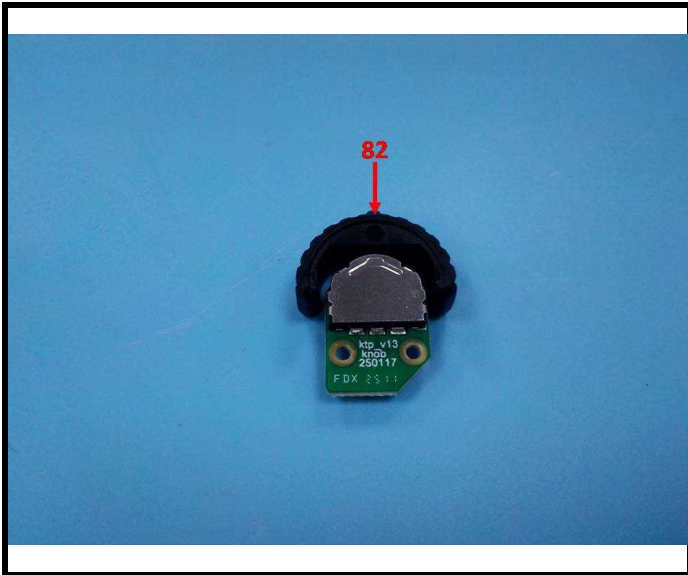


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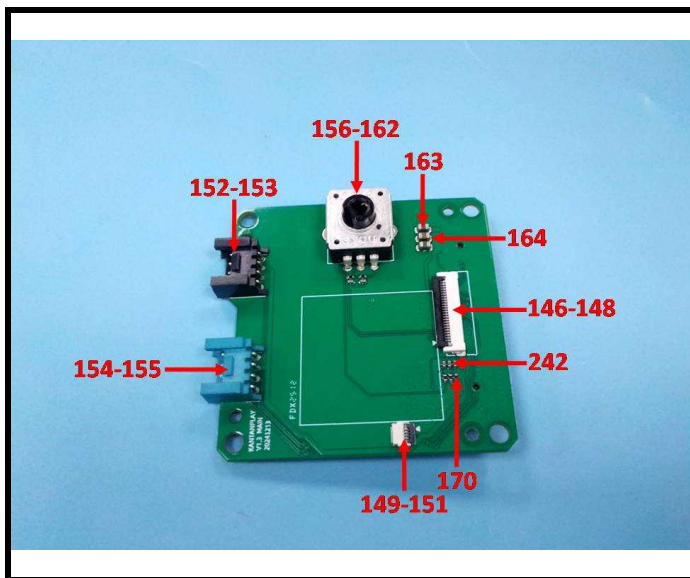
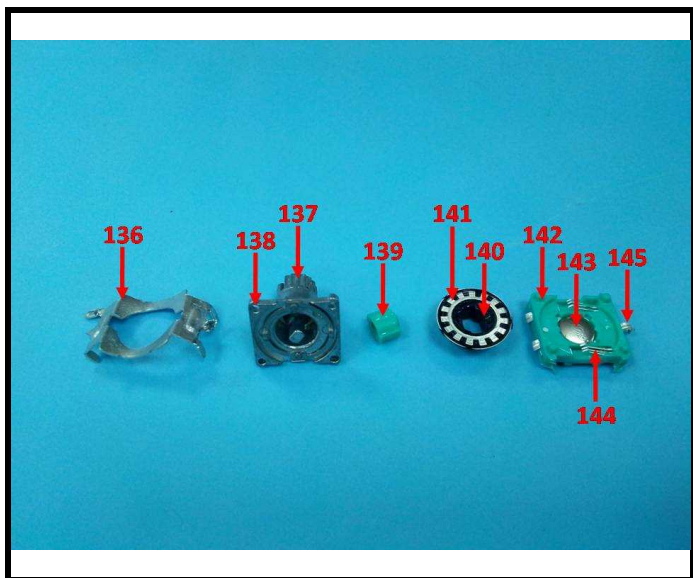
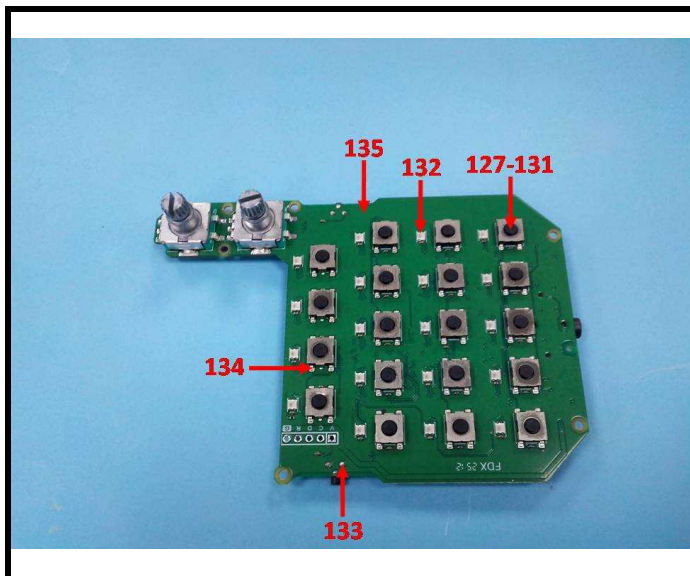
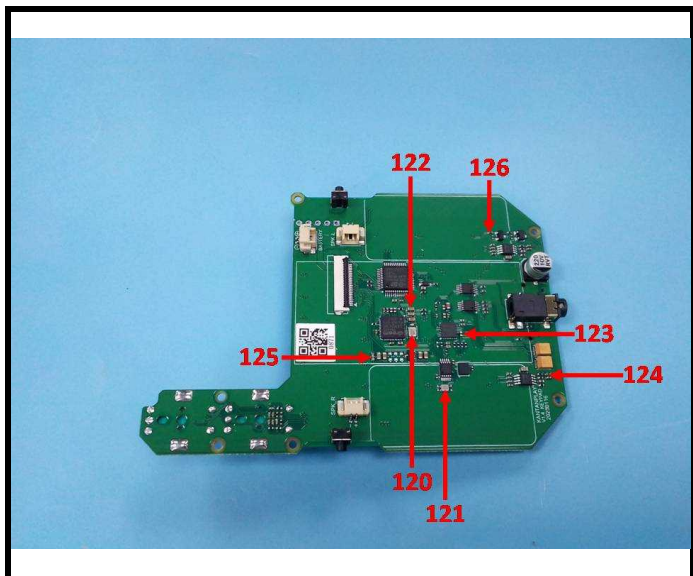


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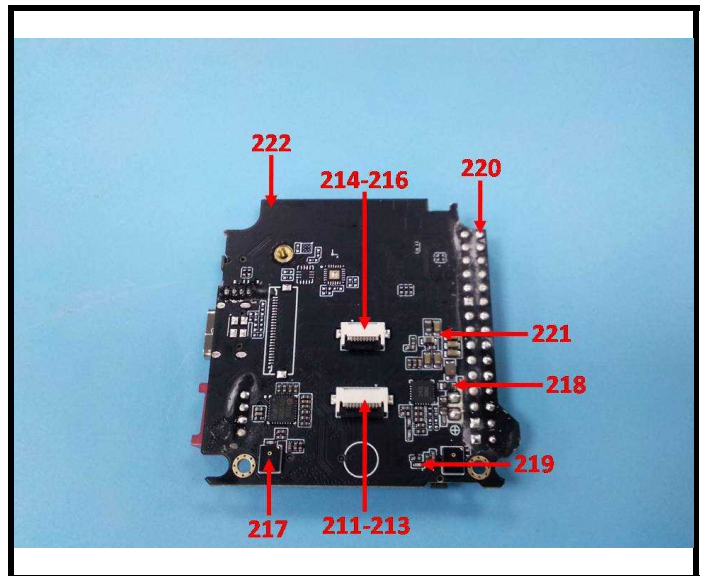
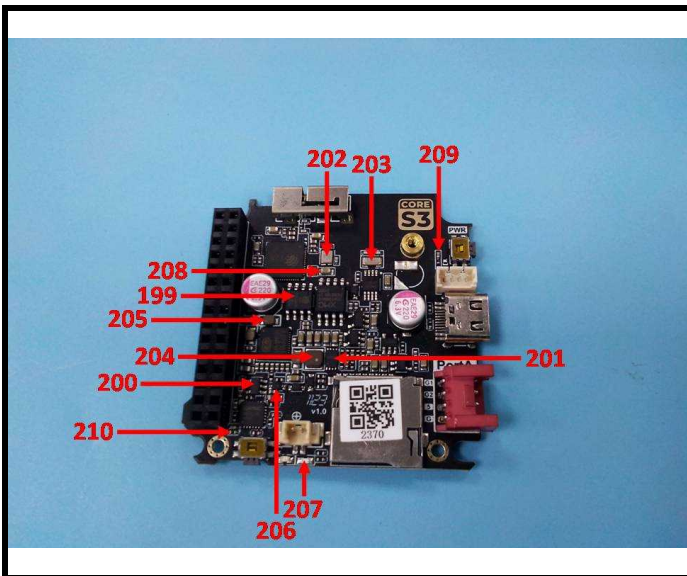
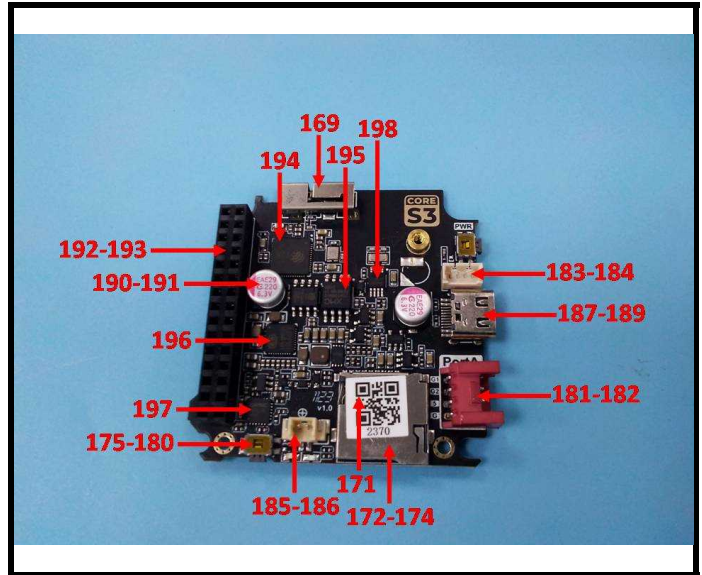
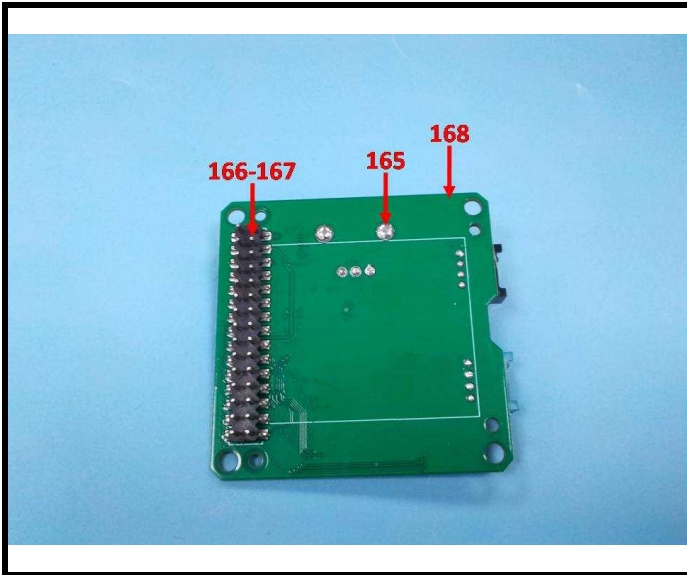


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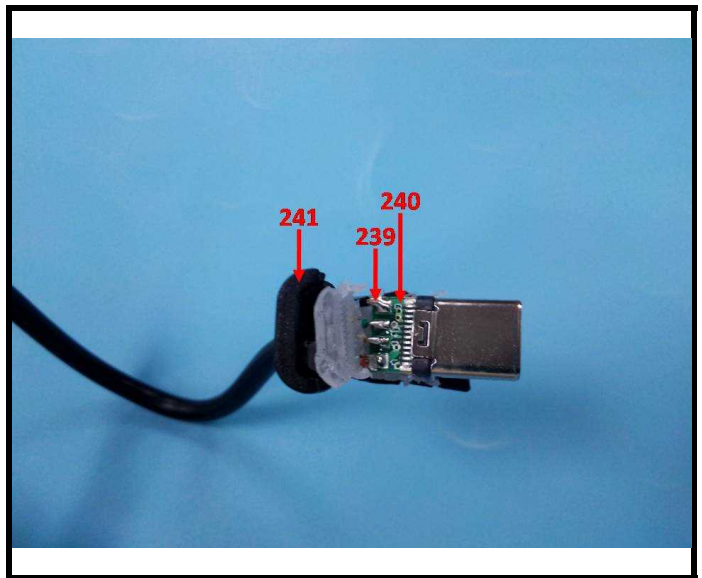
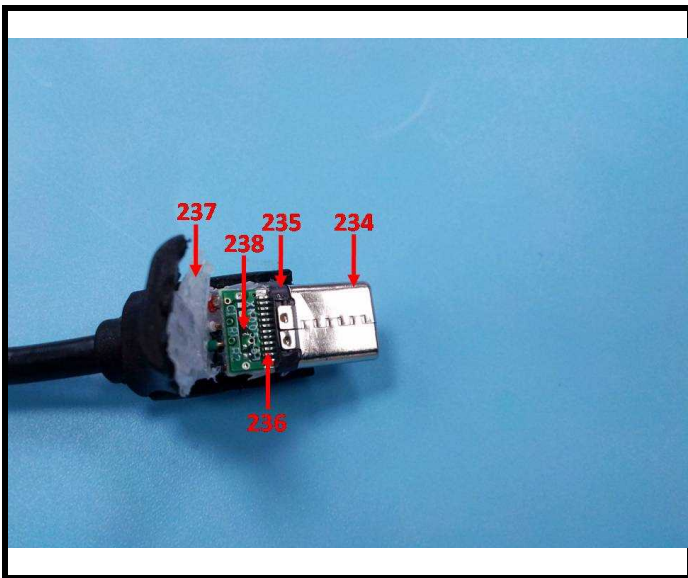
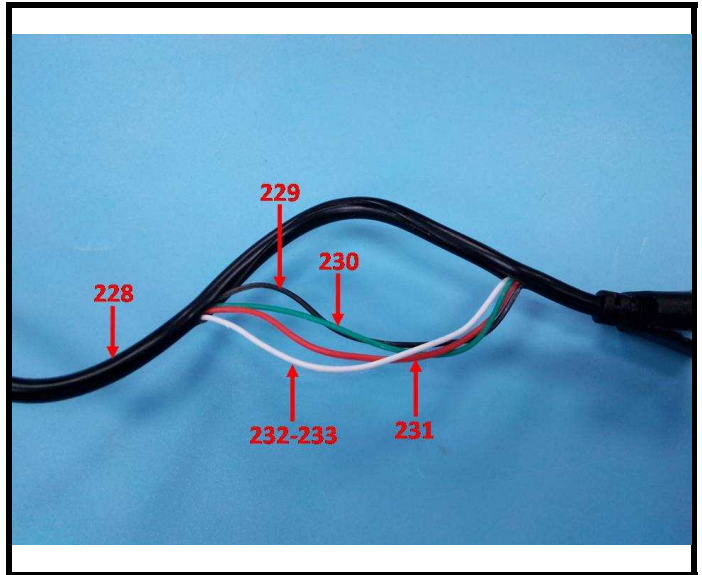
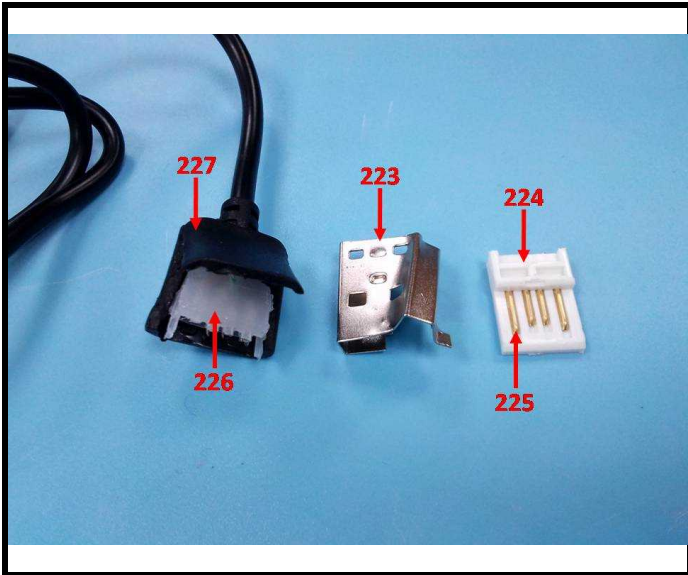


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- 2.Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
- 3.This report is valid only with a valid digital signature. The digital signature may be available 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 ***