

TEST REPORT

Report No.: RSZ191029B1781E-M1

Date: March 18, 2020

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Wuhan Guide Sensmart Tech Co., Ltd

NO.6 Huanglong Hill South Road ,Donghu High-Tech Development Zone ,Wuhan,Hubei,China

This report supersedes RSZ191029B1781E which was generated on November 19,2019.

Report on the submitted samples said to be:

Sample Description: Entry-level Portable Thermal Camera
Style/Item No.: T120;T120H;T120VH
Country of Origin: CHINA
Sample Receiving Date: October 29,2019
Lately Re-submit Date: November 15,2019
Testing Period: October 29,2019 - November 19,2019
Result: **Pass**

Signed for and on behalf of

BACL



Checked by: _____

May Chen
Engineer



Approved by: _____

Lance Lee
Lab vice-Manager



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Summary of Test Result:

TEST REQUEST

CONCLUSION

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 XRF screening test

Pass

B Wet Chemical Testing

1.Chromium VI (CrVI) content

Pass

2.PBBs & PBDEs content

Pass

C Phthalates(DBP, BBP, DEHP, DIBP)content

Pass

FURNACE

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Result:

Tested part(s):

- (1) Black plastic (case , adaptor)
- (2) Silvery metal (plug pin , adaptor)
- (3) Silvery metal (base , plug pin , adaptor)
- (4) Silvery metal (contact plate , plug pin , adaptor)
- (5) White glue (pad , adaptor)
- (6) Dark white glue (cover , PCB , adaptor)
- (7) Silvery metal (cover , USB socket , PCB , adaptor)
- (8) Black plastic (body , USB socket , PCB , adaptor)
- (9) Silvery metal (pin , USB socket , PCB , adaptor)
- (10) Grey printed black plastic (sleeve , capacitor "CE1" , PCB , adaptor)
- (11) Silvery metal (case , capacitor "CE1" , PCB , adaptor)
- (12) Black soft plastic (base , capacitor "CE1" , PCB , adaptor)
- (13) Brown paper (capacitor "CE1" , PCB , adaptor)
- (14) Silvery metal (foil , capacitor "CE1" , PCB , adaptor)
- (15) Dull silvery metal (foil , capacitor "CE1" , PCB , adaptor)
- (16) Silvery metal (pin , capacitor "CE1" , PCB , adaptor)
- (17) Grey printed green plastic (sleeve , capacitor "CE4" , PCB , adaptor)
- (18) Silvery metal (case , capacitor "CE4" , PCB , adaptor)
- (19) Black soft plastic (base , capacitor "CE4" , PCB , adaptor)
- (20) Brown paper (capacitor "CE4" , PCB , adaptor)
- (21) Silvery metal (foil , capacitor "CE4" , PCB , adaptor)
- (22) Dull silvery metal (foil , capacitor "CE4" , PCB , adaptor)
- (23) Silvery metal (pin , capacitor "CE4" , PCB , adaptor)
- (24) Red coated silvery metal (case , capacitor "CE3" , PCB , adaptor)
- (25) Black soft plastic (base , capacitor "CE3" , PCB , adaptor)
- (26) Black paper (capacitor "CE3" , PCB , adaptor)
- (27) Silvery metal (foil , capacitor "CE3" , PCB , adaptor)
- (28) Dull silvery metal (foil , capacitor "CE3" , PCB , adaptor)
- (29) Silvery metal (pin , capacitor "CE3" , PCB , adaptor)
- (30) Blue plastic (cover , capacitor "CY1" , PCB , adaptor)
- (31) Black core (body , capacitor "CY1" , PCB , adaptor)

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- (32) Silvery metal (pin , capacitor "CY1" , PCB , adaptor)
- (33) Multi color printed green plastic (cover , inductor "L1" , PCB , adaptor)
- (34) Black core (coil holder , inductor "L1" , PCB , adaptor)
- (35) Coppery metal (coil , inductor "L1" , PCB , adaptor)
- (36) Silvery metal (pin , inductor "L1" , PCB , adaptor)
- (37) Black plastic (cover , triode "Q1" , PCB , adaptor)
- (38) Coppery metal with silvery solder (triode "Q1" , PCB , adaptor)
- (39) Silvery metal (pin , triode "Q1" , PCB , adaptor)
- (40) Grey printed black soft plastic (sleeve , resistor , PCB , adaptor)
- (41) Coppery metal (cap , resistor , PCB , adaptor)
- (42) Silvery coated white ceramic (resistor , PCB , adaptor)
- (43) Silvery metal (pin , resistor , PCB , adaptor)
- (44) Multi color printed green coated white ceramic (body , big resistor , PCB , adaptor)
- (45) Silvery metal (pin , big resistor , PCB , adaptor)
- (46) Silvery metal (cap , big resistor , PCB , adaptor)
- (47) Black printed yellow plastic (tape , transformer , PCB , adaptor)
- (48) Black core (frame , transformer , PCB , adaptor)
- (49) Black plastic (coil , transformer , PCB , adaptor)
- (50) Coppery metal (coil , transformer , PCB , adaptor)
- (51) Brown coated coppery metal (coil , transformer , PCB , adaptor)
- (52) Silvery metal ((pin , transformer , PCB , adaptor)
- (53) Brown body (SMD capacitor , PCB , adaptor)
- (54) Black / white body (SMD resistor , PCB , adaptor)
- (55) Black body (diode , PCB , adaptor)
- (56) Black body (bridge rectifier , PCB , adaptor)
- (57) Black body (IC , PCB , adaptor)
- (58) White printed green coated brown plastic with coppery metal (PCB , adaptor)
- (59) Silvery solder (PCB , adaptor)
- (60) Black soft PVC (cover , big plug , USB cable)
- (61) Silvery metal (cover , big plug , USB cable)
- (62) Blue plastic (body , big plug , USB cable)
- (63) Silvery metal (pin , big plug , USB cable)
- (64) Silvery solder (pin , big plug , USB cable)

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- (65) Translucent soft plastic (base , big plug , USB cable)
- (66) Black soft plastic (cable jacket , USB cable)
- (67) Silvery metal (shielding , USB cable)
- (68) Silvery metal (cover , USB cable)
- (69) Coppery metal (wire , USB cable)
- (70) White fiber (wire , USB cable)
- (71) Blue coated silvery metal (cover , wire , USB cable)
- (72) Black soft plastic (wire jacket , USB cable)
- (73) Red soft plastic (wire jacket , USB cable)
- (74) White soft plastic (wire jacket , USB cable)
- (75) Green soft plastic (wire jacket , USB cable)
- (76) Purple soft plastic (wire jacket , USB cable)
- (77) Orange soft plastic (wire jacket , USB cable)
- (78) Yellow soft plastic (wire jacket , USB cable)
- (79) Blue soft plastic (wire jacket , USB cable)
- (80) Silvery metal (wire , USB cable)
- (81) Black soft PVC (cover , small plug , USB cable)
- (82) Silvery metal (cover , small plug , USB cable)
- (83) Black plastic (body , small plug , USB cable)
- (84) Silvery metal (pin , small plug , USB cable)
- (85) White printed blue coated brown plastic with coppery metal (PCB , small plug , USB cable)
- (86) Silvery solder (PCB , small plug , USB cable)
- (87) Black / red coated white plastic (label , camera)
- (88) Black / yellow coated white plastic (label , camera)
- (89) Black plated silvery metal (screw , camera)
- (90) Silvery metal (screw , camera)
- (91) Black plastic (case , camera)
- (92) Black soft plastic (cover , case , camera)
- (93) Black soft plastic (cover , SD card socket , case , camera)
- (94) Coppery metal (bottom , case , camera)
- (95) Red plastic (button , case , camera)
- (96) Black plastic (base , button , case , camera)
- (97) Translucent soft plastic (pad , button , case , camera)

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- (98) Silvery metal (spring , button , case , camera)
- (99) Black plated silvery metal (base , lens , camera)
- (100) Blue glass (filter , infrared lens , camera)
- (101) Transparent glass (filter , lens , camera)
- (102) Black plastic (case , infrared lens , camera)
- (103) Grey plastic (case , infrared lens , camera)
- (104) Silvery metal (coil holder , case , infrared lens , camera)
- (105) Coppery metal (coil , case , infrared lens , camera)
- (106) Brown plastic with coppery metal (FPC , case , infrared lens , camera)
- (107) Silvery solder (FPC , case , infrared lens , camera)
- (108) Black plastic (cover , infrared lens , camera)
- (109) Grey plastic (sleeve , infrared lens , camera)
- (110) Green glass (infrared lens , camera)
- (111) Black plastic (bottom , infrared lens , camera)
- (112) Brown body (SMD capacitor , FPC , infrared lens , camera)
- (113) Transparent body (IC , FPC , infrared lens , camera)
- (114) Brown plastic with coppery metal (FPC , infrared lens , camera)
- (115) Silvery metal (base , FPC , infrared lens , camera)
- (116) Black plastic (connector , FPC , infrared lens , camera)
- (117) Silvery metal (pin , connector , FPC , infrared lens , camera)
- (118) Black plastic (case , lens , camera)
- (119) Transparent glass (lens , camera)
- (120) Coppery metal (cover , lens , camera)
- (121) Coppery metal (base , lens , camera)
- (122) Silvery metal (cap , base , lens , camera)
- (123) Transparent body (IC , base , lens , camera)
- (124) Coppery metal (pin , lens , camera)
- (125) Brown body (SMD capacitor , PCB , lens , camera)
- (126) Black / white body (SMD resistor , PCB , lens , camera)
- (127) Green coated brown plastic with coppery metal (PCB , lens , camera)
- (128) Silvery solder (PCB , lens , camera)
- (129) Red soft plastic (wire jacket , lens , camera)
- (130) Black soft plastic (wire jacket , lens , camera)

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- (131) Silvery metal (wire , lens , camera)
- (132) Black foam with adhesive (pad , battery , camera)
- (133) Black printed blue plastic (cover , battery , camera)
- (134) Green paper with adhesive (cap , battery , camera)
- (135) White paper with adhesive (cover , battery , camera)
- (136) Silvery metal (pin , battery , camera)
- (137) White plastic (connector , battery , camera)
- (138) Silvery metal (pin , connector , battery , camera)
- (139) Red soft plastic (wire jacket , battery , camera)
- (140) Black soft plastic (wire jacket , battery , camera)
- (141) Silvery metal (wire , battery , camera)
- (142) Brown body (SMD capacitor , PCB , battery , camera)
- (143) Black / white body (SMD resistor , PCB , battery , camera)
- (144) Black body (IC , PCB , battery , camera)
- (145) White printed green coated brown plastic with coppery metal (PCB , battery , camera)
- (146) Silvery solder (PCB , battery , camera)
- (147) White / grey printed translucent soft plastic (keyboard , camera)
- (148) Silvery metal (base , keyboard , camera)
- (149) Silvery metal (metal dome , keyboard , camera)
- (150) Transparent plastic with adhesive (cover , FPC , keyboard , camera)
- (151) Brown body (SMD capacitor , FPC , keyboard , camera)
- (152) Black / white body (SMD resistor , FPC , keyboard , camera)
- (153) Black body (SMD diode , FPC , keyboard , camera)
- (154) White printed brown plastic with coppery metal (FPC , keyboard , camera)
- (155) Silvery solder (FPC , keyboard , camera , raw material)
- (156) Black coated transparent plastic (shield , screen , camera)
- (157) Black foam with adhesive (pad , screen , camera)
- (158) Silvery metal (frame , screen , camera)
- (159) Black plastic with adhesive (edge , screen , camera)
- (160) White plastic (frame , screen , camera)
- (161) White plastic (interlining , screen , camera)
- (162) Transparent plastic (interlining , screen , camera)
- (163) White translucent plastic (interlining , screen , camera)

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- (164) Silvery translucent plastic (interlining , screen , camera)
- (165) Grey transparent plastic (cover , screen , camera)
- (166) Transparent grey glass (screen , camera)
- (167) Yellow / white body (LED , FPC , screen , camera)
- (168) Brown plastic (tape , FPC , screen , camera)
- (169) Silvery metal (base , FPC , screen , camera)
- (170) White printed black coated brown plastic with coppery metal (FPC , screen , camera)
- (171) Silvery solder (FPC , screen , camera)
- (172) White printed brown plastic with coppery metal (FPC , small PCB , camera)
- (173) Brown plastic (contact plate , small PCB , camera)
- (174) White plastic (contact plate , small PCB , camera)
- (175) Black plastic (contact plate , small PCB , camera)
- (176) Grey plastic (contact plate , small PCB , camera)
- (177) Silvery metal (pin , contact plate ,small PCB , camera)
- (178) Black plastic (connector , small PCB , camera)
- (179) Golden metal (pin , connector , small PCB , camera)
- (180) White printed green coated brown plastic with coppery metal (small PCB , camera)
- (181) Silvery solder (small PCB , camera)
- (182) Silvery metal (nut , holder , main PCB , camera)
- (183) Black soft plastic (holder , main PCB , camera)
- (184) Silvery metal (screw , holder , main PCB , camera)
- (185) Black fabric with adhesive (cover , main PCB , camera)
- (186) Silvery metal (cover , USB socket , main PCB , camera)
- (187) Black plastic (body , USB socket , main PCB , camera)
- (188) Silvery metal (pin , USB socket , main PCB , camera)
- (189) Silvery metal (cover , SD socket , main PCB , camera)
- (190) Black plastic (body , SD socket , main PCB , camera)
- (191) Silvery metal (pin , SD socket , main PCB , camera)
- (192) Dark white plastic (connector , main PCB , camera)
- (193) Silvery metal (pin , connector , main PCB , camera)
- (194) Black plastic (button & body , switch , main PCB , camera)
- (195) Blue soft plastic (dome , switch , main PCB , camera)
- (196) Silvery metal (contact plate , switch , main PCB , camera)

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- (197) Silvery metal (pin , switch , main PCB , camera)
- (198) Brown body (SMD capacitor , main PCB , camera)
- (199) White printed Black body (SMD capacitor , main PCB , camera)
- (200) Black / white body (SMD resistor , main PCB , camera)
- (201) Black body (diode , main PCB , camera)
- (202) Black body (triode , main PCB , camera)
- (203) Grey body (inductor , main PCB , camera)
- (204) Silvery body (crystal oscillator , main PCB , camera)
- (205) White body (LED , main PCB , camera)
- (206) Silvery body (IC , main PCB , camera)
- (207) Black body (small IC , main PCB , camera)
- (208) Black body (IC , main PCB , camera)
- (209) White printed green coated brown plastic with coppery metal (main PCB , camera)
- (210) Silvery solder (main PCB , camera)
- (211) Red plastic (cover , handle , camera)

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A XRF screening test

Test method: IEC 62321-3-1:2013

Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(1)	BL	BL	BL	BL	BL
(2)	BL	BL	BL	BL	--
(3)	BL	BL	BL	BL	--
(4)	BL	BL	BL	BL	--
(5)	BL	BL	BL	BL	BL
(6)	BL	BL	BL	BL	BL
(7)	BL	BL	BL	BL	--
(8)	BL	BL	BL	BL	BL
(9)	BL	BL	BL	BL	--
(10)	BL	BL	BL	BL	BL
(11)	BL	BL	BL	BL	--
(12)	BL	BL	BL	BL	BL
(13)	BL	BL	BL	BL	BL
(14)	BL	BL	BL	BL	--
(15)	BL	BL	BL	BL	--
(16)	BL	BL	BL	BL	--
(17)	BL	BL	BL	BL	BL
(18)	BL	BL	BL	BL	--
(19)	BL	BL	BL	BL	BL
(20)	BL	BL	BL	BL	BL
(21)	BL	BL	BL	BL	--
(22)	BL	BL	BL	BL	--
(23)	BL	BL	BL	BL	--
(24)	BL	BL	BL	BL	--
(25)	BL	BL	BL	BL	BL
(26)	BL	BL	BL	BL	BL
(27)	BL	BL	BL	BL	--
(28)	BL	BL	BL	BL	--

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(29)	BL	BL	BL	BL	--
(30)	BL	BL	BL	BL	BL
(31)	BL	BL	BL	BL	BL
(32)	BL	BL	BL	BL	--
(33)	BL	BL	BL	BL	BL
(34)	BL	BL	BL	BL	BL
(35)	BL	BL	BL	BL	--
(36)	BL	BL	BL	BL	--
(37)	BL	BL	BL	BL	BL
(38)* ²	OL(866655)	BL	BL	BL	--
(39)	BL	BL	BL	BL	--
(40)	BL	BL	BL	BL	BL
(41)	BL	BL	BL	BL	--
(42)	BL	BL	BL	BL	--
(43)	BL	BL	BL	BL	--
(44)	BL	BL	BL	BL	--
(45)	BL	BL	BL	BL	--
(46)	BL	BL	BL	BL	--
(47)	BL	BL	BL	BL	BL
(48)	BL	BL	BL	BL	BL
(49)	BL	BL	BL	BL	BL
(50)	BL	BL	BL	BL	--
(51)	BL	BL	BL	BL	--
(52)	BL	BL	BL	BL	--
(53)	BL	BL	BL	BL	BL
(54)	BL	BL	BL	BL	BL
(55)	BL	BL	BL	BL	BL
(56)	BL	BL	BL	BL	BL
(57)	BL	BL	BL	BL	BL
(58)*	BL	BL	BL	BL	X
(59)	BL	BL	BL	BL	--

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(60)	BL	BL	BL	BL	BL
(61)	BL	BL	BL	BL	--
(62)	BL	BL	BL	BL	BL
(63)	BL	BL	BL	BL	--
(64)	BL	BL	BL	BL	--
(65)	BL	BL	BL	BL	BL
(66)	BL	BL	BL	BL	BL
(67)	BL	BL	BL	BL	--
(68)	BL	BL	BL	BL	--
(69)	BL	BL	BL	BL	--
(70)	BL	BL	BL	BL	BL
(71)	BL	BL	BL	BL	--
(72)	BL	BL	BL	BL	BL
(73)	BL	BL	BL	BL	BL
(74)	BL	BL	BL	BL	BL
(75)	BL	BL	BL	BL	BL
(76)	BL	BL	BL	BL	BL
(77)	BL	BL	BL	BL	BL
(78)	BL	BL	BL	BL	BL
(79)	BL	BL	BL	BL	BL
(80)	BL	BL	BL	BL	--
(81)	BL	BL	BL	BL	BL
(82)	BL	BL	BL	BL	--
(83)	BL	BL	BL	BL	BL
(84)	BL	BL	BL	BL	--
(85)*	BL	BL	BL	BL	X
(86)	BL	BL	BL	BL	--
(87)	BL	BL	BL	BL	BL
(88)	BL	BL	BL	BL	BL
(89)	BL	BL	BL	BL	--
(90)	BL	BL	BL	BL	--

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(91)	BL	BL	BL	BL	BL
(92)	BL	BL	BL	BL	BL
(93)	BL	BL	BL	BL	BL
(94)**	OL(24568)	BL	BL	BL	--
(95)	BL	BL	BL	BL	BL
(96)	BL	BL	BL	BL	BL
(97)	BL	BL	BL	BL	BL
(98)	BL	BL	BL	BL	--
(99)	BL	BL	BL	BL	--
(100)	BL	BL	BL	BL	--
(101)	BL	BL	BL	BL	--
(102)	BL	BL	BL	BL	BL
(103)	BL	BL	BL	BL	BL
(104)	BL	BL	BL	BL	--
(105)	BL	BL	BL	BL	--
(106)	BL	BL	BL	BL	BL
(107)	BL	BL	BL	BL	--
(108)	BL	BL	BL	BL	BL
(109)	BL	BL	BL	BL	BL
(110)	BL	BL	BL	BL	--
(111)	BL	BL	BL	BL	BL
(112)	BL	BL	BL	BL	BL
(113)	BL	BL	BL	BL	BL
(114)	BL	BL	BL	BL	BL
(115)	BL	BL	BL	BL	--
(116)	BL	BL	BL	BL	BL
(117)	BL	BL	BL	BL	--
(118)	BL	BL	BL	BL	BL
(119)	BL	BL	BL	BL	--
(120)**	OL(25545)	BL	BL	BL	--
(121)	BL	BL	BL	BL	--

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(122)	BL	BL	BL	BL	--
(123)	BL	BL	BL	BL	BL
(124)	BL	BL	BL	BL	--
(125)	BL	BL	BL	BL	BL
(126)	BL	BL	BL	BL	BL
(127)	BL	BL	BL	BL	BL
(128)	BL	BL	BL	BL	--
(129)	BL	BL	BL	BL	BL
(130)	BL	BL	BL	BL	BL
(131)	BL	BL	BL	BL	--
(132)	BL	BL	BL	BL	BL
(133)	BL	BL	BL	BL	BL
(134)	BL	BL	BL	BL	BL
(135)	BL	BL	BL	BL	BL
(136)	BL	BL	BL	BL	--
(137)	BL	BL	BL	BL	BL
(138)	BL	BL	BL	BL	--
(139)	BL	BL	BL	BL	BL
(140)	BL	BL	BL	BL	BL
(141)	BL	BL	BL	BL	--
(142)	BL	BL	BL	BL	BL
(143)	BL	BL	BL	BL	BL
(144)	BL	BL	BL	BL	BL
(145)*	BL	BL	BL	BL	X
(146)	BL	BL	BL	BL	--
(147)	BL	BL	BL	BL	BL
(148)	BL	BL	BL	BL	--
(149)	BL	BL	BL	BL	--
(150)	BL	BL	BL	BL	BL
(151)	BL	BL	BL	BL	BL
(152)	BL	BL	BL	BL	BL

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(153)	BL	BL	BL	BL	BL
(154)	BL	BL	BL	BL	BL
(155)	BL	BL	BL	BL	--
(156)	BL	BL	BL	BL	BL
(157)	BL	BL	BL	BL	BL
(158)	BL	BL	BL	BL	--
(159)	BL	BL	BL	BL	BL
(160)	BL	BL	BL	BL	BL
(161)	BL	BL	BL	BL	BL
(162)	BL	BL	BL	BL	BL
(163)	BL	BL	BL	BL	BL
(164)	BL	BL	BL	BL	BL
(165)	BL	BL	BL	BL	BL
(166)	BL	BL	BL	BL	--
(167)	BL	BL	BL	BL	BL
(168)	BL	BL	BL	BL	BL
(169)	BL	BL	BL	BL	--
(170)	BL	BL	BL	BL	BL
(171)	BL	BL	BL	BL	--
(172)	BL	BL	BL	BL	BL
(173)	BL	BL	BL	BL	BL
(174)	BL	BL	BL	BL	BL
(175)	BL	BL	BL	BL	BL
(176)	BL	BL	BL	BL	BL
(177)	BL	BL	BL	BL	--
(178)	BL	BL	BL	BL	BL
(179)	BL	BL	BL	BL	--
(180)*	BL	BL	BL	BL	X
(181)	BL	BL	BL	BL	--
(182)*	BL	BL	BL	X	--
(183)	BL	BL	BL	BL	BL

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Seq No.	Result				
	Pb	Cd	Hg	Cr	Br
(184)	BL	BL	BL	BL	--
(185)	BL	BL	BL	BL	BL
(186)	BL	BL	BL	BL	--
(187)	BL	BL	BL	BL	BL
(188)	BL	BL	BL	BL	--
(189)	BL	BL	BL	BL	--
(190)	BL	BL	BL	BL	BL
(191)	BL	BL	BL	BL	--
(192)	BL	BL	BL	BL	BL
(193)	BL	BL	BL	BL	--
(194)	BL	BL	BL	BL	BL
(195)	BL	BL	BL	BL	BL
(196)	BL	BL	BL	BL	--
(197)	BL	BL	BL	BL	--
(198)	BL	BL	BL	BL	BL
(199)	BL	BL	BL	BL	BL
(200)	BL	BL	BL	BL	BL
(201)	BL	BL	BL	BL	BL
(202)	BL	BL	BL	BL	BL
(203)	BL	BL	BL	BL	BL
(204)	BL	BL	BL	BL	BL
(205)	BL	BL	BL	BL	BL
(206)	BL	BL	BL	BL	BL
(207)	BL	BL	BL	BL	BL
(208)	BL	BL	BL	BL	BL
(209)*	BL	BL	BL	BL	X
(210)	BL	BL	BL	BL	--
(211)	BL	BL	BL	BL	BL

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Note:

--- = Not Applicable.

* = Screening by XRF and detected by chemical method. The test result of chemical method please refer to next pages.

*1 = As claimed by the material declaration submitted by the client, the materials of the sample No. 94,120 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. 38 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).

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≤70-3σ<X <1300+3σ≤OL	BL≤70-3σ<X <1300+3σ≤OL	BL≤50-3σ<X <1500+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

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:

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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B Wet Chemical Testing

1. Chromium VI (CrVI) content

Test method: IEC 62321-7-1:2015

Item	Unit	MDL	Result		Limit
			(182)		
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 considered 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.

2.PBBs & PBDEs content

Test method: IEC 62321-6:2015

Item	Unit	MDL	Result					Limit
			(58)	(85)	(145)	(180)	(209)	
Monobromobiphenyl(MonoBB)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromobiphenyl(DiBB)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromobiphenyl(TriBB)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tetrabromobiphenyl(TetraBB)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromobiphenyl(PentaBB)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Hexabromobiphenyl(HexaBB)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Heptabromobiphenyl(HeptaBB)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Octabromobiphenyl(OctaBB)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromobiphenyl(NonaBB)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromobiphenyl(DecaBB)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Monobromodiphenyl ether (MonoBDE)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Dibromodiphenyl ether(DiBDE)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tribromodiphenyl ether(TriBDE)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Tetrabromodiphenyl ether (TetraBDE)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Pentabromodiphenyl ether (PentaBDE)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-

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Item	Unit	MDL	Result					Limit
			(58)	(85)	(145)	(180)	(209)	
Hexabromodiphenyl ether (HexaBDE)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Heptabromodiphenyl ether (HeptaBDE)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Octabromodiphenyl ether (OctaBDE)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Nonabromodiphenyl ether (NonaBDE)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
Decabromodiphenyl ether (DecaBDE)	mg/Kg	5	N.D.	N.D.	N.D.	N.D.	N.D.	-
sum of NonaBDE, TetraBDE, HeptaBDE, PentaBDE, HexaBDE, OctaBDE, DiBDE, DecaBDE, MonoBDE, TriBDE	mg/Kg	-	/	/	/	/	/	1000
sum of HeptaBB, DiBB, MonoBB, DecaBB, HexaBB, OctaBB, TriBB, NonaBB, PentaBB, TetraBB	mg/Kg	-	/	/	/	/	/	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	/

C Phthalates (DBP, BBP, DEHP, DIBP) content

Test method: IEC 62321-8:2017

Item	Unit	MDL	Result						Limit
			(1)+(5)+(6)	(8)+(10)+(12)	(17)+(19)+(25)	(40)+(47)+(49)	(53)+(54)+(55)	(56)+(57)+(58)	
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
			(60)	(62)+(65)+(83)	(66)+(72)+(73)	(74)+(75)+(76)	(77)+(78)+(79)	(81)	
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

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Item	Unit	MDL	Result						Limit
			(60)	(62)+(65)+ (83)	(66)+(72)+ (73)	(74)+(75)+ (76)	(77)+(78)+ (79)	(81)	
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
			(85)	(87)+(88)	(91)+(95)+ (96)	(92)+(93)+ (97)	(102)+(103)+ (106)	(108)+(109)+ (111)	
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
			(112)+(113)+ (114)	(116)+(118)+ (123)	(125)+(126)+ (127)	(129)+(130)	(132)+(133)+ (134)	(135)	
Dibutyl Phthalate(DBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	176	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.	236	N.D.	1000
Diisobutyl phthalate(DIBP)	mg/Kg	30	N.D.	N.D.	N.D.	N.D.	80	N.D.	1000
Conclusion	/	/	Pass	Pass	Pass	Pass	Pass	Pass	/

Item	Unit	MDL	Result						Limit
			(137)+(142)+ (143)	(139)+(140)	(144)+(145)	(147)+(150)+ (157)	(151)+(152)+ (153)	(154)+(156)	
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.	220	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
			(159)+(165)+(172)	(160)+(161)+(162)	(163)+(164)+(167)	(168)+(170)	(173)+(174)+(175)	(176)+(178)+(180)	
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
			(183)+(185)+(211)	(187)+(190)+(192)	(194)+(195)+(198)	(199)+(200)+(201)	
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
			(202)+(203)+(204)	(205)+(206)+(207)	(208)+(209)	
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	/

Note:

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

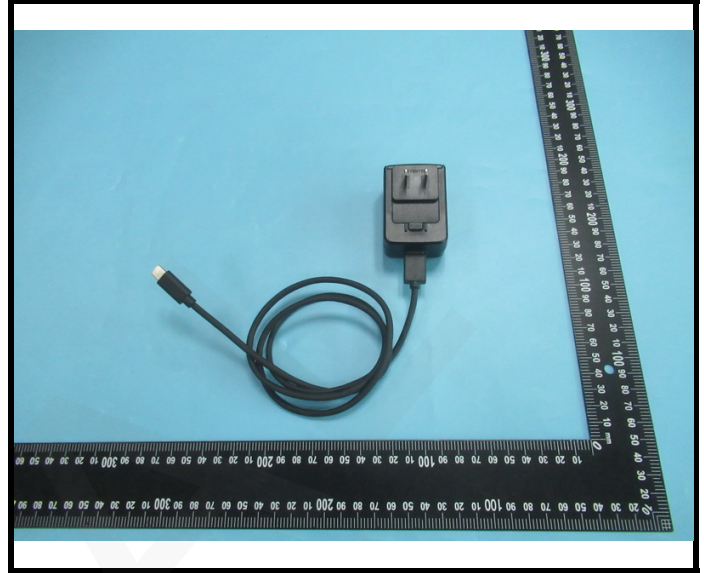
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Photograph of Sample



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