

Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 1 of 52

Applicant : CUBIC SENSOR AND INSTRUMENT CO.,LTD.
委托单位 : 四方光电股份有限公司

Address : FENGHUANG YUAN NO.3 ROAD, FENGHUANG INDUSTRIAL PARK, EASTLAKE HI-TECH DEVELOPMENT ZONE, WUHAN , CHINA.
地 址 : 湖北省武汉市东湖新技术开发区凤凰产业园凤凰园三路 3 号

Sample Name : Ultrasonic Gas Flow and Oxygen Sensor
样品名称 : 超声波氧气传感器

Model : Gasboard-7500B series,Gasboard-7500H series,Gasboard-7500C series,
Gasboard-7500E series,Gasboard-8500V series,Gasboard-7500K series,
Gasboard-8500D series,Gasboard-8500D series,Gasboard-8500D series,
Gasboard-8500D series
型 号 : Gasboard-7500B 系列,Gasboard-7500H 系列,Gasboard-7500C 系列,
Gasboard-7500E 系列,Gasboard-8500V 系列,Gasboard-7500K 系列,
Gasboard-8500D 系列,Gasboard-8500D 系列,Gasboard-8500D 系列,
Gasboard-8500D 系列

Received Date : Mar. 29, 2021
接收日期 : 2021 年 03 月 29 日

Test Period : Mar. 29, 2021 ~ Apr. 19, 2021
检测日期 : 2021 年 03 月 29 日~2021 年 04 月 19 日

Test Requested : As requested by client, to evaluate the compliance of the submitted sample with EU RoHS
检测要求 : Directive 2011/65/EU Annex II and its amendment (EU) 2015/863 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
根据客户要求,对送测样品进行欧洲议会及理事会于 2011 年 6 月 8 日决定的关于在电子电器产品中限制使用某些有害物质的指令 2011/65/EU 中附件 II 的修订指令(EU) 2015/863 要求的符合性评估。

Test Method : 1. Review was performed for the sample and the related Bill of Material
检测方法 : submitted by the Applicant.
对客户所提交的样品及其相关材料清单进行检查、评估。
2. a) To refer to the standard IEC 62321-2:2013, review was performed for the samples disjointed from the submitted articles.
参照标准 IEC 62321-2:2013,对客户所提交的样品进行拆分。
b) To refer to the standard IEC 62321-1:2013, tests were performed for the samples indicated by the photos in this report.
参照标准 IEC 62321-1:2013,对客户所提交的指定图片样品进行测试。

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 2 of 52

- c) To refer to the standard IEC 62321-3-1:2013: Screening by XRF Spectroscopy.
参照标准 IEC 62321-3-1:2013: X 射线荧光扫描筛选测试。
- d) Wet chemical test
湿化学测试
- 1) to refer to IEC 62321-5:2013, determine the Cadmium, Lead content by ICP-OES.
参照 IEC 62321-5: 2013, 用 ICP-OES 测定铅(Pb)、镉(Cd)的含量。
 - 2) to refer to IEC 62321-4: 2013+A1:2017, determine the Mercury content by ICP-OES.
参照 IEC 62321-4: 2013+A1:2017, 用 ICP-OES 测定汞(Hg)的含量。
 - 3) to refer to IEC 62321-7-1:2015 & IEC 62321-7-2: 2017, determine the Hexavalent Chromium(Cr(VI)) content by UV-VIS.
参照 IEC 62321-7-1:2015 & IEC 62321-7-2: 2017, 用 UV-VIS 测定六价铬(Cr(VI))的含量。
 - 4) to refer to IEC 62321-6:2015, determine the Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers(PBDEs) by GC-MS.
参照 IEC 62321-6:2015, 用 GC-MS 测定多溴联苯(PBBs)和多溴二苯醚(PBDEs)的含量。
 - 5) to refer to IEC 62321-8:2017, determine the Bis(2-ethylhexyl)phthalate(DEHP), Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP) and Diisobutyl phthalate (DIBP) by GC-MS.
参照 IEC 62321-8:2017, 用 GC-MS 测定邻苯二甲酸二(2-乙基己)酯(DEHP)、邻苯二甲酸二丁酯(DBP)、邻苯二甲酸丁苄酯(BBP)和邻苯二甲酸二异丁酯(DIBP)含量。

Test Results : Please refer to next page (s).
测试结果 : 请参见下一页



Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 3 of 52

Conclusion:

执行测试总结:

Basing on the test results obtained from the homogenous materials, the submitted sample **COMPLIES** with EU RoHS Directive 2011/65/EU Annex II and its amendment (EU) 2015/863.

所提交样品中均质材料的测试结果符合 RoHS 指令 2011/65/EU 中附件 II 的修订指令(EU) 2015/863 的要求。



Signed for and on behalf of
EMTEK(Guangzhou) Co., Ltd.

Prepared by:

May

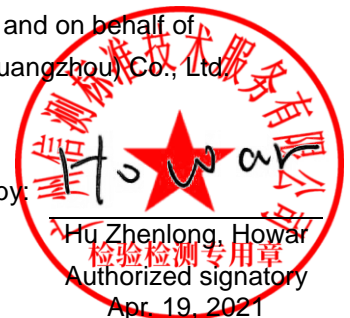
He Yanmei, May
Assistant engineer

Reviewed by:

Qu xiang

Qu xiang
Technical supervisor

Approved by:



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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 4 of 52

1. Test Sample List 检测样品清单

Sample No. 样品序号	Sample Name 样品名称
1	Catheter-black hard plastic 导管-黑色硬塑料
2	Label-white soft plastic 标签-白色软塑料
3	Solder-silvery metal 焊锡-银色金属
4	Pin-silvery metal 引脚-银色金属
5	Washer-white hard plastic 垫圈-白色硬塑料
6	Nut-silvery metal 螺母-银色金属
7	Screw-silvery metal 螺杆-银色金属
8	Black sealant 黑色密封胶
9	Acoustic wave sensor-silvery metal 声波传感器-银色金属
10	Acoustic wave sensor-silvery metal 声波传感器--银色金属
11	Solder-silvery metal 焊锡-银色金属
12	White soft glue 白色软胶
13	Wire-coppery metal 导线-铜色金属
14	Acoustic wave sensor-white ceramic 声波传感器-白色陶瓷
15	Acoustic wave sensor-black hard plastic 声波传感器-黑色硬塑料
16	Solder-silvery metal 焊锡-银色金属
17	Green PCB 绿色 PCB
18	Solder-silvery metal 焊锡-银色金属
19	O-ring-transparent silicone O型圈-透明硅胶

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 5 of 52

Sample No. 样品序号	Sample Name 样品名称
20	IC 集成电路
21	SMD diode 贴片二极管
22	IC 集成电路
23	IC 集成电路
24	SMD crystal oscillator 贴片晶振器
25	IC 集成电路
26	SMD capacitor 贴片电容
27	SMD resistor 贴片电阻
28	LED 发光二极管
29	O-ring-silvery metal O型圈-银色金属
30	SMD capacitor 贴片电容
31	SMD diode 贴片二极管
32	SMD audion 贴片三极管
33	Pin plating-silvery plating 插针镀层-银色镀层
34	Pin base material-coppery metal 插针基材-铜色金属
35	SMD capacitor 贴片电容
36	Socket-white hard plastic 接插座-白色硬塑料
37	SMD diode 贴片二极管
38	IC 集成电路
39	Solder-silvery metal 焊锡-银色金属

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 6 of 52

Sample No. 样品序号	Sample Name 样品名称
40	Catheter-black hard plastic 导管-黑色硬塑料
41	Screw plating-colorful plating 螺杆镀层-彩色镀层
42	Screw base material-silvery metal 螺杆基材-银色金属
43	Blue PCB 蓝色 PCB
44	IC 集成电路
45	IC 集成电路
46	IC 集成电路
47	SMD crystal oscillator 贴片晶振器
48	SMD inductor 贴片电感
49	Solder-silvery metal 焊锡-银色金属
50	Catheter-black hard plastic 导管-黑色硬塑料
51	Black PCB 黑色 PCB
52	IC 集成电路
53	I type inductance 工型电感
54	Socket-natural hard plastic 接插座-本色硬塑料
55	Solder-silvery metal 焊锡-银色金属
56	Catheter-black hard plastic 导管-黑色硬塑料
57	Black PCB 黑色 PCB
58	Solder-silvery metal 焊锡-银色金属
59	Catheter-black hard plastic 导管-黑色硬塑料

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 7 of 52

Sample No. 样品序号	Sample Name 样品名称
60	Green PCB 绿色 PCB
61	Shell-black hard plastic 外壳-黑色硬塑料
62	Screw-silvery metal 螺钉-银色金属
63	Black PCB 黑色 PCB
64	Transparent glue 透明胶水
65	Solder-silvery metal 焊锡-银色金属
66	Shell-black hard plastic 外壳-黑色硬塑料
67	Solder-silvery metal 焊锡-银色金属
68	Black PCB 黑色 PCB
69	Solder-silvery metal 焊锡-银色金属
70	Shell-white hard plastic 外壳-白色硬塑料
71	Green PCB 绿色 PCB
72	IC 集成电路
73	White film 白色胶片
74	Green PCB 绿色 PCB
75	Shell-white hard plastic 外壳-白色硬塑料
76	Solder-silvery metal 焊锡-银色金属
77	Shell-white hard plastic 外壳-白色硬塑料
78*	Solder-silvery metal 焊锡-银色金属
79	Green PCB 绿色 PCB

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 8 of 52

Sample No. 样品序号	Sample Name 样品名称
80	Screw-silvery metal 螺钉-银色金属
81	Shell-white hard material 壳体-白色硬料

Remark: *=The test results were obtained with the resubmitted sample on Apr. 16, 2021.

备注: *=测试结果是 2021 年 04 月 16 日重新提交样品的数据。

2. Pb,Cd,Hg,Cr(VI),PBBs,PBDEs Test Results/测试结果

No. 序号	Restricted substances 受限物质	Results of EDXRF ⁽¹⁾ EDXRF 结果 ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg) 湿化学测试结果 ⁽²⁾ (毫克/千克)	Remark ⁽²⁾ 备注 ⁽²⁾
1	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
2	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
3	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
4	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 9 of 52

No. 序号	Restricted substances 受限物质	Results of EDXRF ⁽¹⁾ EDXRF 结果 ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg) 湿化学测试结果 ⁽²⁾ (毫克/千克)	Remark ⁽²⁾ 备注 ⁽²⁾
5	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
6	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
7	Cd	BL	Cr(VI): Negative 六价铬: 阴性	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	X		
	Br	NA		
8	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
9	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
10	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 10 of 52

No. 序号	Restricted substances 受限物质	Results of EDXRF ⁽¹⁾ EDXRF 结果 ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg) 湿化学测试结果 ⁽²⁾ (毫克/千克)	Remark ⁽²⁾ 备注 ⁽²⁾
11	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
12	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
13	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
14	Cd	BL	Pb: 7128 铅: 7128	As declared by client, the material should be exempted for lead content requirement according to Annex clause 7(c)-I. 根据客户说明, 铅来自 电子组件中陶瓷/玻璃材 料, 参照 RoHS 法规附 件条款 7(C)-I, 属豁免 项。
	Pb	OL		
	Hg	BL		
	Cr	BL		
	Br	BL		
15	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 11 of 52

No. 序号	Restricted substances 受限物质	Results of EDXRF ⁽¹⁾ EDXRF 结果 ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg) 湿化学测试结果 ⁽²⁾ (毫克/千克)	Remark ⁽²⁾ 备注 ⁽²⁾
16	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
17	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		
18	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
19	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
20	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
21	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 12 of 52

No. 序号	Restricted substances 受限物质	Results of EDXRF ⁽¹⁾ EDXRF 结果 ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg) 湿化学测试结果 ⁽²⁾ (毫克/千克)	Remark ⁽²⁾ 备注 ⁽²⁾
22	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
23	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
24	Cd	BL	Pb: 1914 铅: 1914 Cr(VI): Negative 六价铬: 阴性	As declared by client, the material should be exempted for lead content requirement according to Annex clause 7(c)-I. 根据客户说明, 铅来自 电子组件中陶瓷/玻璃材 料, 参照 RoHS 法规附 件条款 7(C)-I, 属豁免 项。
	Pb	OL		
	Hg	BL		
	Cr	X		
	Br	BL		
25	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
26	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 13 of 52

No. 序号	Restricted substances 受限物质	Results of EDXRF ⁽¹⁾ EDXRF 结果 ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg) 湿化学测试结果 ⁽²⁾ (毫克/千克)	Remark ⁽²⁾ 备注 ⁽²⁾
27	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
28	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
29	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
30	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
31	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
32	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 14 of 52

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33	Cd	BL	Cr(VI): Negative 六价铬: 阴性	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	/		
	Br	NA		
34	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
35	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
36	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
37	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
38	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 15 of 52

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39	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
40	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		
41	Cd	BL	Cr(VI): Negative 六价铬: 阴性	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	/		
	Br	NA		
42	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
43	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		
44	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 16 of 52

No. 序号	Restricted substances 受限物质	Results of EDXRF ⁽¹⁾ EDXRF 结果 ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg) 湿化学测试结果 ⁽²⁾ (毫克/千克)	Remark ⁽²⁾ 备注 ⁽²⁾
45	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
46	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
47	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
48	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
49	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
50	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 17 of 52

No. 序号	Restricted substances 受限物质	Results of EDXRF ⁽¹⁾ EDXRF 结果 ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg) 湿化学测试结果 ⁽²⁾ (毫克/千克)	Remark ⁽²⁾ 备注 ⁽²⁾
51	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		
52	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
53	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
54	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		
55	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
56	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 18 of 52

No. 序号	Restricted substances 受限物质	Results of EDXRF ⁽¹⁾ EDXRF 结果 ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg) 湿化学测试结果 ⁽²⁾ (毫克/千克)	Remark ⁽²⁾ 备注 ⁽²⁾
57	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		
58	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
59	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		
60	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		
61	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
62	Cd	BL	Cr(VI): Negative 六价铬: 阴性	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	X		
	Br	NA		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 19 of 52

No. 序号	Restricted substances 受限物质	Results of EDXRF ⁽¹⁾ EDXRF 结果 ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg) 湿化学测试结果 ⁽²⁾ (毫克/千克)	Remark ⁽²⁾ 备注 ⁽²⁾
63	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		
64	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
65	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
66	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
67	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
68	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 20 of 52

No. 序号	Restricted substances 受限物质	Results of EDXRF ⁽¹⁾ EDXRF 结果 ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg) 湿化学测试结果 ⁽²⁾ (毫克/千克)	Remark ⁽²⁾ 备注 ⁽²⁾
69	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
70	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
71	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		
72	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
73	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
74	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 21 of 52

No. 序号	Restricted substances 受限物质	Results of EDXRF ⁽¹⁾ EDXRF 结果 ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg) 湿化学测试结果 ⁽²⁾ (毫克/千克)	Remark ⁽²⁾ 备注 ⁽²⁾
75	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
76	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
77	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		
78	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	NA		
79	Cd	BL	PBBs: ND PBDEs: ND 多溴联苯: 未检出 多溴二苯醚: 未检出	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	X		
80	Cd	BL	Cr(VI): Negative 六价铬: 阴性	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	X		
	Br	NA		

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 22 of 52

No. 序号	Restricted substances 受限物质	Results of EDXRF ⁽¹⁾ EDXRF 结果 ⁽¹⁾	Results of Chemical Testing ⁽²⁾ (mg/kg) 湿化学测试结果 ⁽²⁾ (毫克/千克)	Remark ⁽²⁾ 备注 ⁽²⁾
81	Cd	BL	---	Non comment 无
	Pb	BL		
	Hg	BL		
	Cr	BL		
	Br	BL		

3. Phthalates (DBP, BBP, DEHP, DIBP) Test Results/邻苯二甲酸酯(DBP, BBP, DEHP, DIBP)测试结果

No. 序号	Restricted substances 受限物质	CAS No. CAS 号	Results of Wet chem. Test (%) 湿化学测试结果 (%)	MDL 方法检测限 (%)	Limit 限值 (%)
1	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
2	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
5	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
8	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 23 of 52

No. 序号	Restricted substances 受限物质	CAS No. CAS 号	Results of Wet chem. Test (%) 湿化学测试结果 (%)	MDL 方法检测限 (%)	Limit 限值 (%)
12	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
14	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
15	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
17	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
19	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
20	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
21	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 24 of 52

No. 序号	Restricted substances 受限物质	CAS No. CAS 号	Results of Wet chem. Test (%) 湿化学测试结果 (%)	MDL 方法检测限 (%)	Limit 限值 (%)
22	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
23	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
24	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
25	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
26	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
27	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
28	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 25 of 52

No. 序号	Restricted substances 受限物质	CAS No. CAS 号	Results of Wet chem. Test (%) 湿化学测试结果 (%)	MDL 方法检测限 (%)	Limit 限值 (%)
30	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
31	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
32	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
35	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
36	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
37	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
38	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 26 of 52

No. 序号	Restricted substances 受限物质	CAS No. CAS 号	Results of Wet chem. Test (%) 湿化学测试结果 (%)	MDL 方法检测限 (%)	Limit 限值 (%)
40	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
43	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
44	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
45	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
46	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
47	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
48	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 27 of 52

No. 序号	Restricted substances 受限物质	CAS No. CAS 号	Results of Wet chem. Test (%) 湿化学测试结果 (%)	MDL 方法检测限 (%)	Limit 限值 (%)
50	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
51	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
52	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
53	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
54	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
56	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
57	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 28 of 52

No. 序号	Restricted substances 受限物质	CAS No. CAS 号	Results of Wet chem. Test (%) 湿化学测试结果 (%)	MDL 方法检测限 (%)	Limit 限值 (%)
59	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
60	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
61	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
63	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
64	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
66	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
68	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 29 of 52

No. 序号	Restricted substances 受限物质	CAS No. CAS 号	Results of Wet chem. Test (%) 湿化学测试结果 (%)	MDL 方法检测限 (%)	Limit 限值 (%)
70	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
71	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
72	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
73	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
74	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
75	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
77	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 30 of 52

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79	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1
81	DBP	84-74-2	ND	0.003	0.1
	BBP	85-68-7	ND	0.003	0.1
	DEHP	117-81-7	ND	0.003	0.1
	DIBP	84-69-5	ND	0.003	0.1

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 31 of 52

Note 备注:

- (1) ① Results are obtained by XRF for primary screening, and further wet chemical testing by ICP-OES / AAS (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC/MS (for PBBs, PBDEs) is recommended to be performed, if an inconclusive result was found (as "X" in below table)(unit: mg/kg).
XRF 结果是初步筛选,如果有不确定结果(如下表中"X")需要进一步通过 ICP-OES/AAS(针对镉,铅,汞), UV-VIS(针对六价铬)以及 GC/MS(针对多溴联苯, 多溴二苯醚)做湿化学分析 (单位: 毫克/千克)。
- ② OL = Over Limit, BL = Below Limit, X = Inconclusive, NA= Not Applicable.
OL = 超出限值, BL = 低于限值, X = 不确定, NA= 不适用。
- ③ The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.
针对元素的扫描结果-不均一材料的测试值与真实值可能存在差异。

Element 分析元素	Polymer 聚合物材料	Metal 金属材料	Composite Materials 电子元件
镉 Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
铅 Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
汞 Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
溴 Br	$BL \leq (300-3\sigma) < X$	NA	$BL \leq (250-3\sigma) < X$
铬 Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

- (2) ① mg/kg = ppm = 0.0001%, ND = Not Detected (Less than method detection limit).
毫克/千克 = 0.0001%, ND = 未检测到 (小于方法检测限)。
- ② Unit and Method Detection Limit (MDL) in wet chemical test.
湿化学测试中的单位和方法检测限。

Test items 测试项目	铅 Pb	镉 Cd	汞 Hg	Cr(VI)(Non-metal) Cr(VI)(非金属)	PBBs(single) 多溴联苯 (单个)	PBDEs(single) 多溴二苯醚 (单个)
Unit 单位	mg/kg 毫克/千克	mg/kg 毫克/千克	mg/kg 毫克/千克	mg/kg 毫克/千克	mg/kg 毫克/千克	mg/kg 毫克/千克
MDL 方法检测限	2	2	2	8	5	5

- ③ According to IEC 62321-7-1:2015, result on Cr(VI) for metal sample is shown as Positive/Negative.
依据 IEC 62321-7-1:2015, 金属样品中 Cr(VI)的结果用阳性/阴性来表示。
- a. The sample is positive for Cr(VI) if the Cr(VI) concentration is greater than $0.13\mu\text{g}/\text{cm}^2$.
The sample coating is considered to contain Cr(VI).
a. 当六价铬(Cr(VI))结果为阳性(浓度大于 $0.13\mu\text{g}/\text{cm}^2$), 表示样品表层含有六价铬(Cr(VI)).
- b. The sample is negative for Cr(VI) if the Cr(VI) concentration is less than $0.10\mu\text{g}/\text{cm}^2$.
The sample is considered a non-Cr(VI) based coating.
b. 当六价铬(Cr(VI))结果为阴性(浓度小于 $0.10\mu\text{g}/\text{cm}^2$), 表示样品表层不含有六价铬(Cr(VI)).

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 32 of 52

c. The result between is $0.10 \mu\text{g}/\text{cm}^2$ and $0.13\mu\text{g}/\text{cm}^2$ is considered to be inconclusive-unavoidable coating variations may influence the determination.

c. 当六价铬(Cr(VI))结果介于 0.10 及 $0.13\mu\text{g}/\text{cm}^2$ 时, 无法确定 coating 是否含有六价铬(Cr(VI))。

Storage condition and production date of the tested sample are unavailable and thus results of Cr(VI) represent status of the sample at the time of testing.

由于未知测试样品的储存条件及生产日期, 测试结果仅代替样品在测试期间的状态。

④ According to IEC 62321-3-1:2013, this column represents the results of wet chemical test. And “---” means no need to perform wet chemical test, when the XRF screening results are qualified. 根据 IEC 62321-3-1:2013 的标准要求, 这列内容代表化学测试结果, 而 “---” 代表前面 XRF 扫描测试合格后不需要再做化学测试。

(3) This column represents the exempted decoration of material or other related testing sample's information. And “Non comment” means no note.

这列内容代表有关材料的豁免声明或者其它必要的批注, 而 “无” 代表没有批注。

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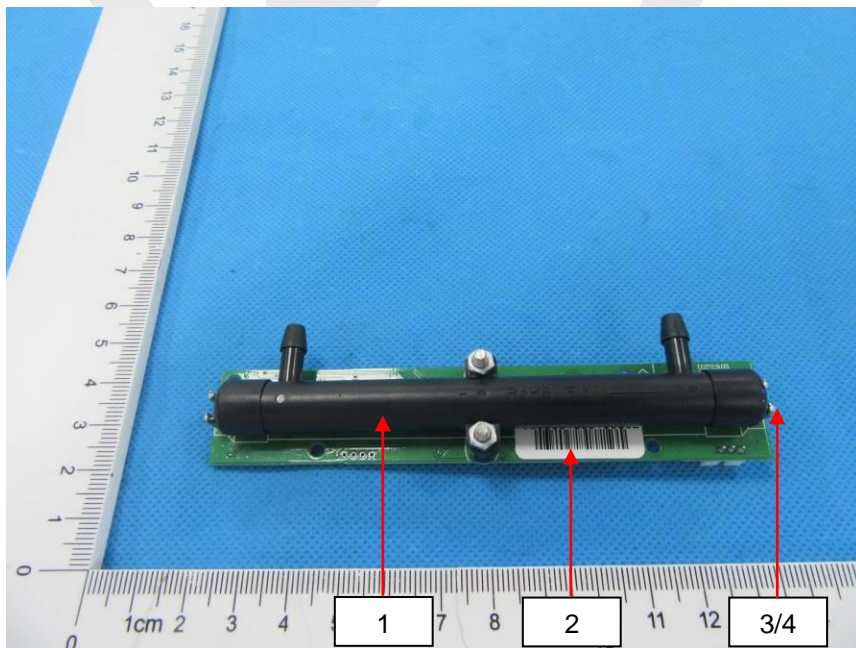
Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 33 of 52

4. Sample Photos 样品照片



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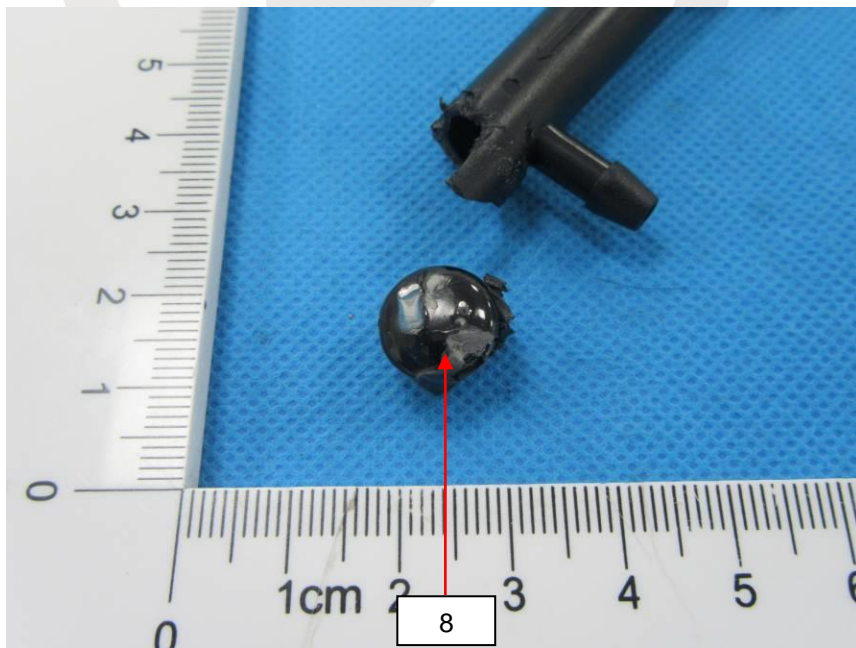


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 34 of 52



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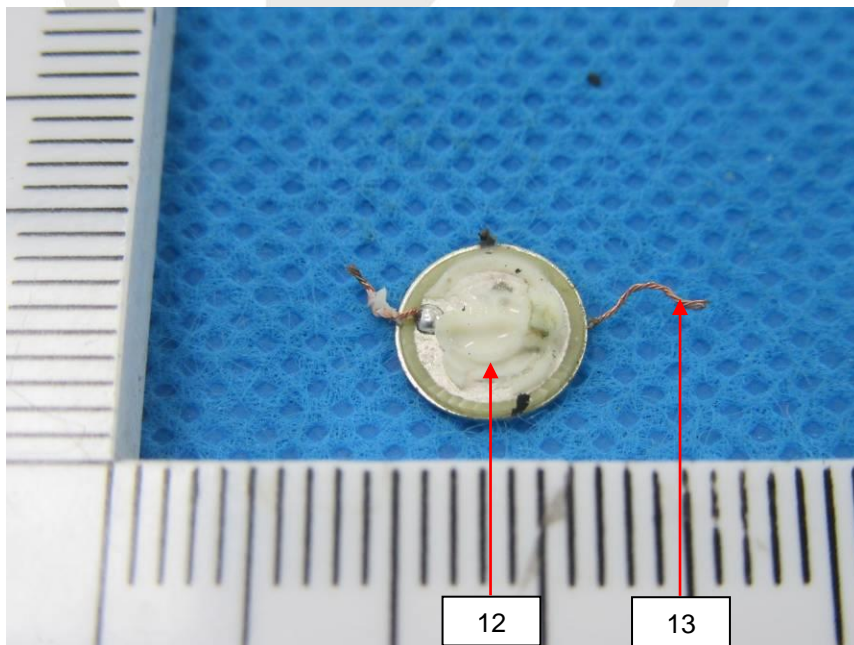
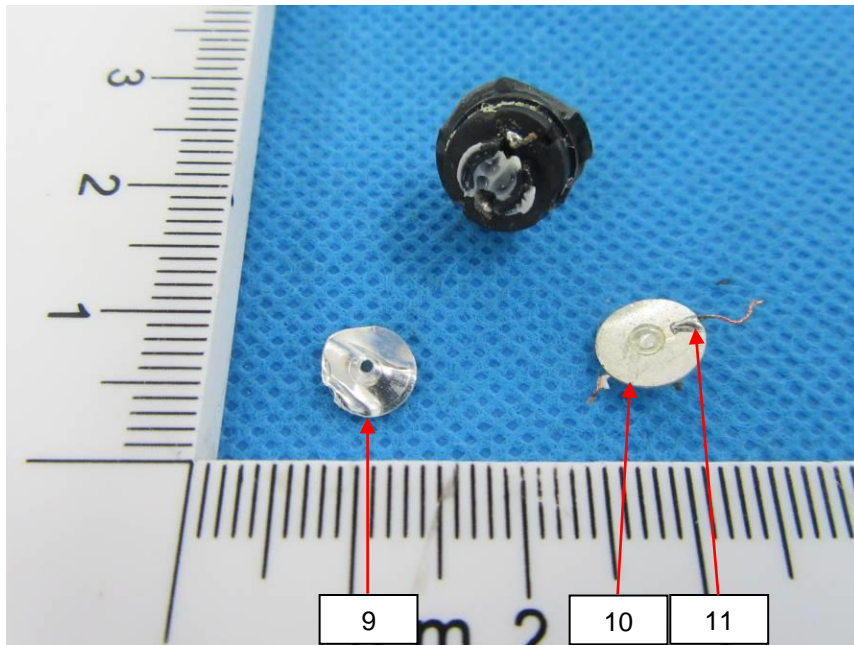


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 35 of 52



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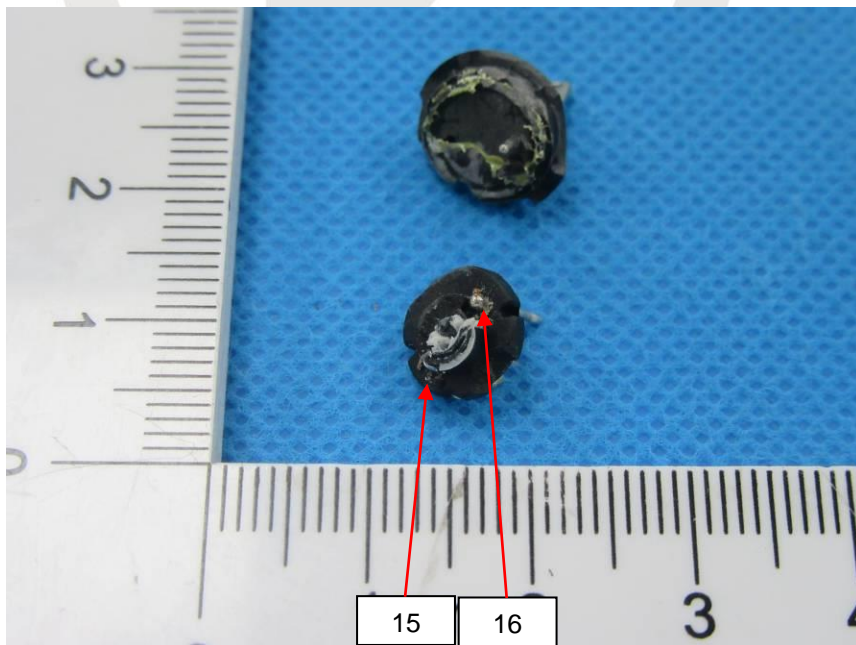
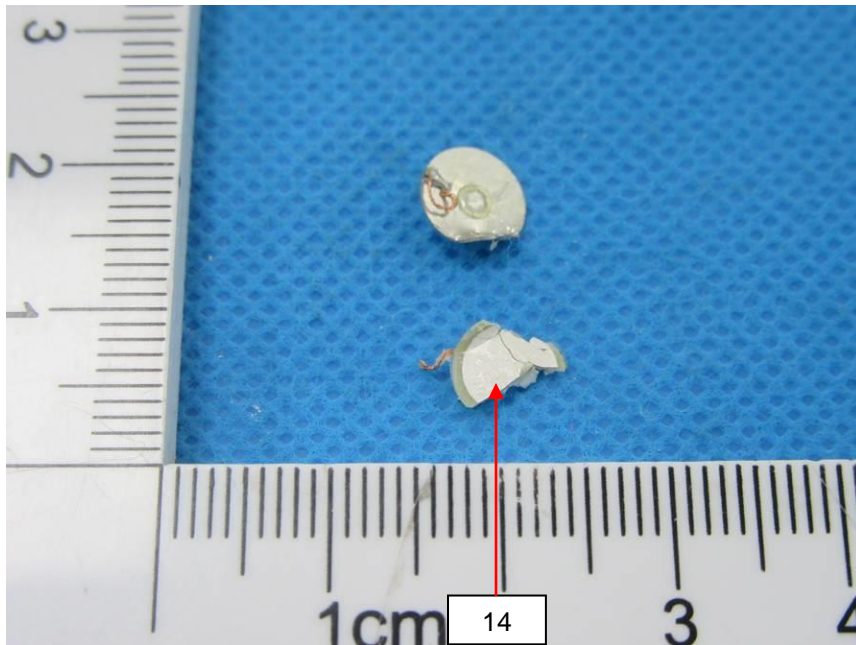


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 36 of 52



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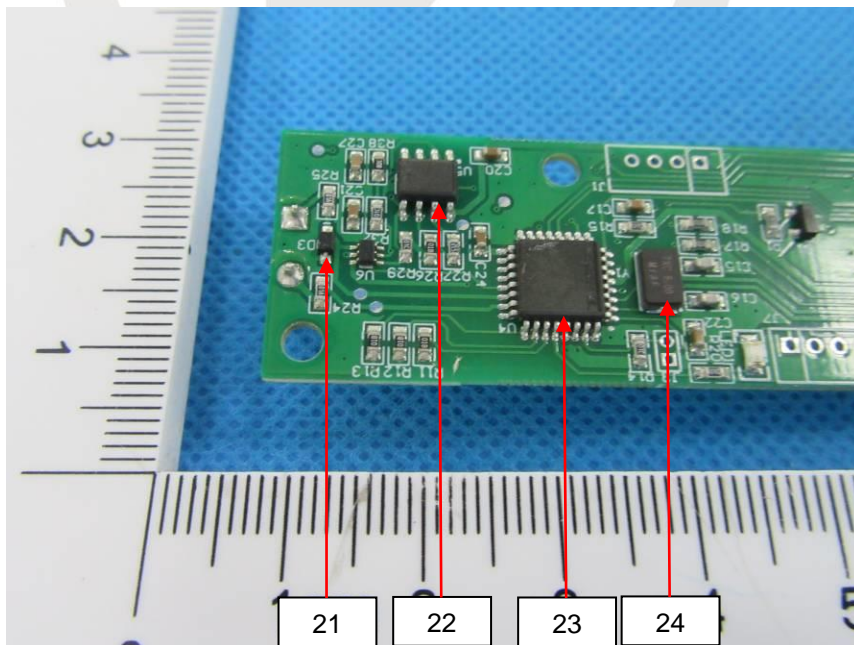
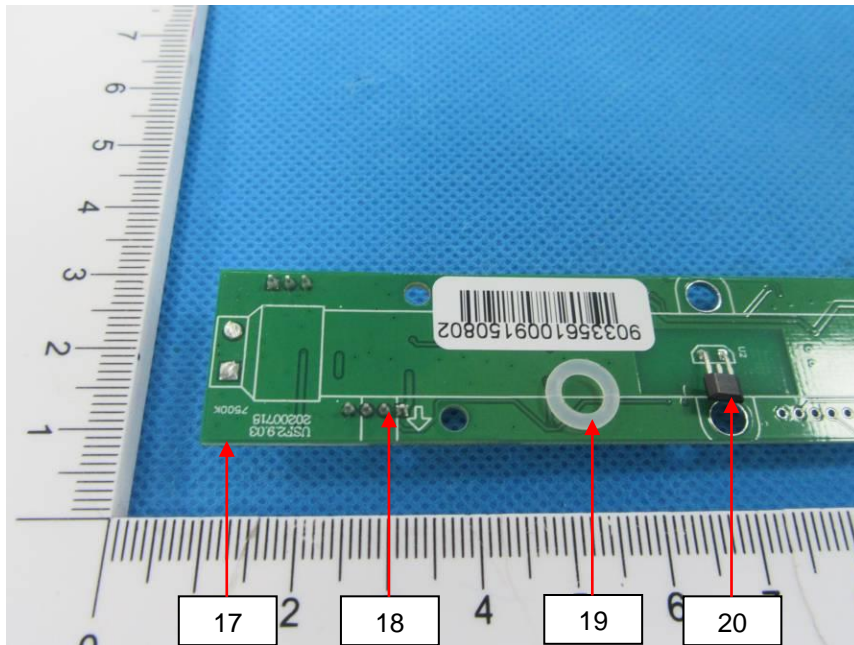


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 37 of 52



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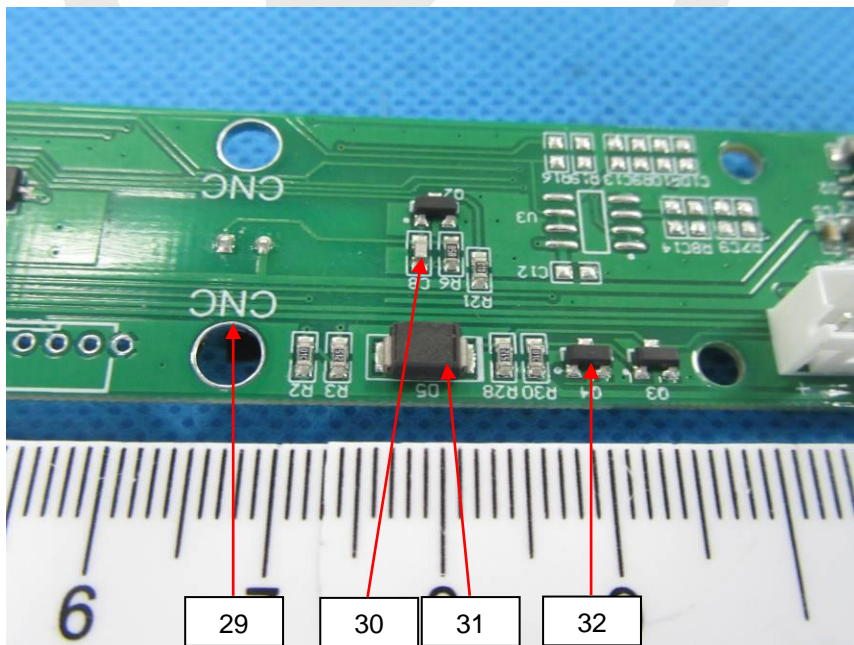
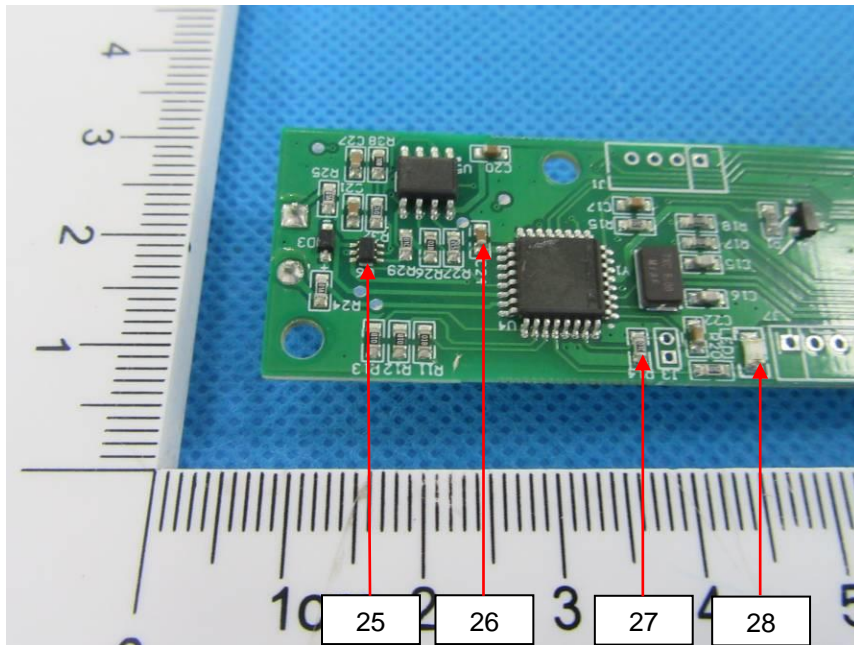


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 38 of 52



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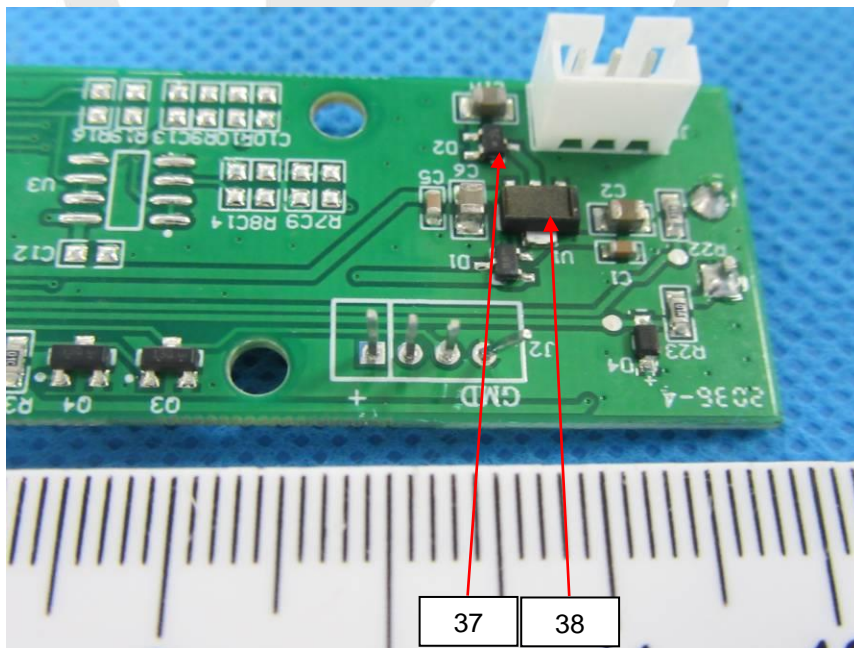
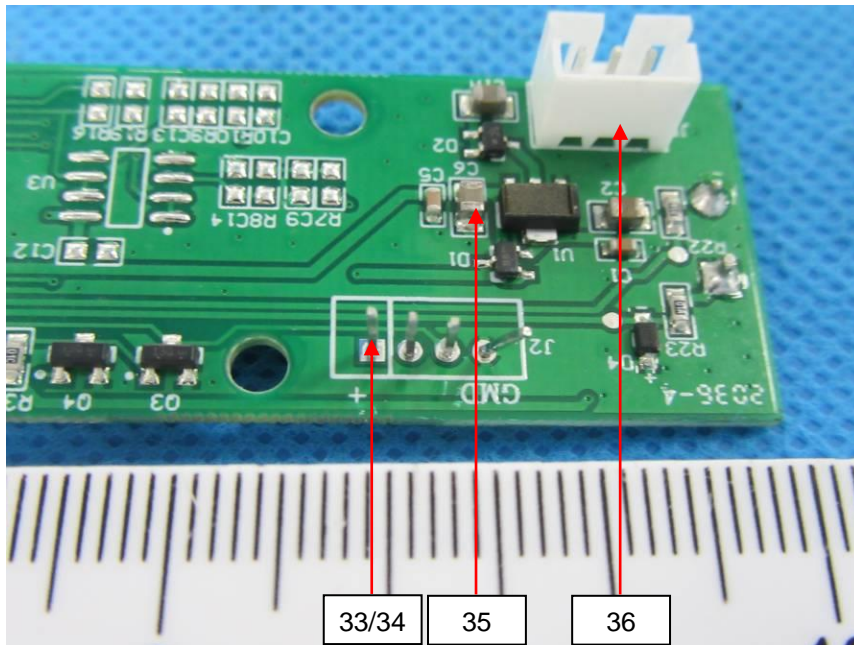


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 39 of 52



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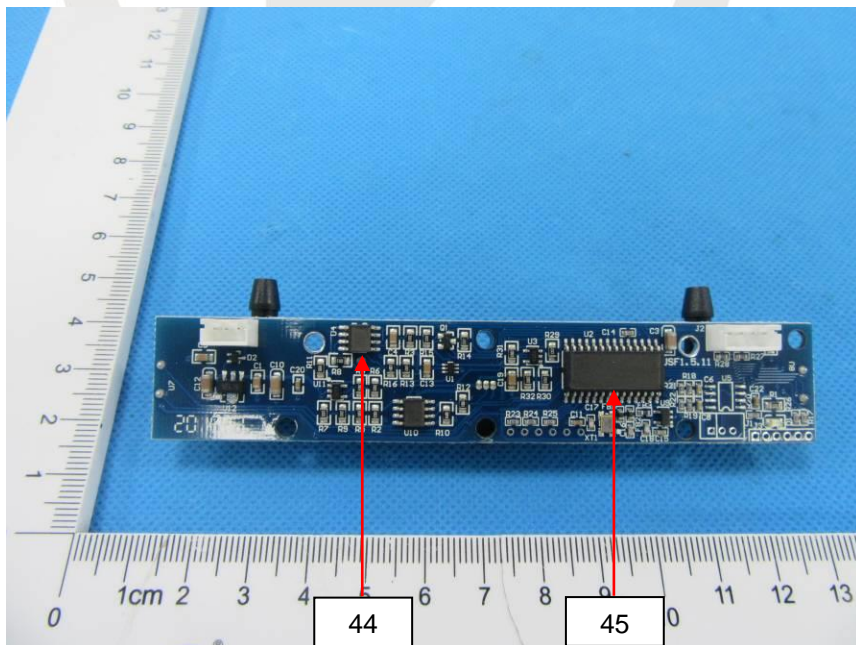
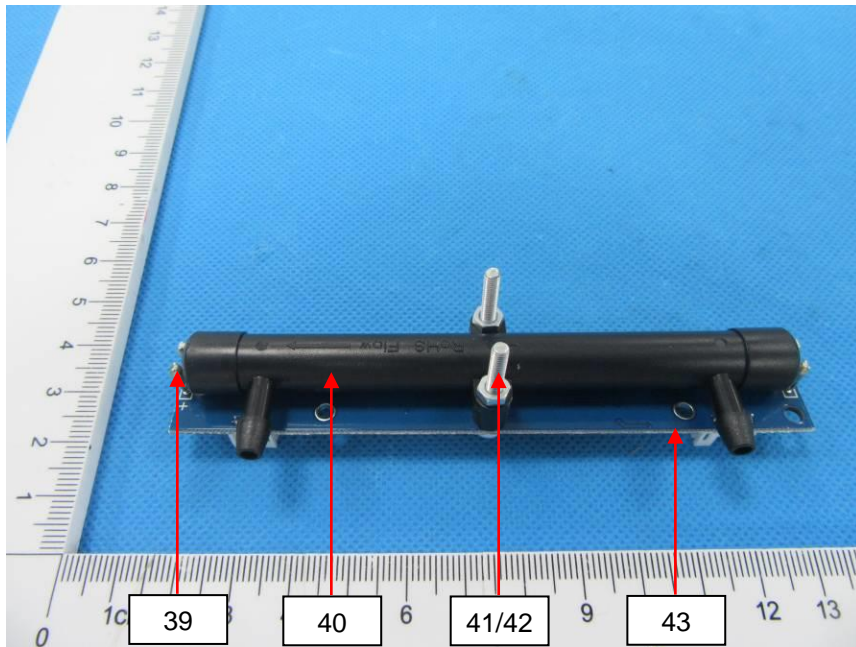


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 40 of 52



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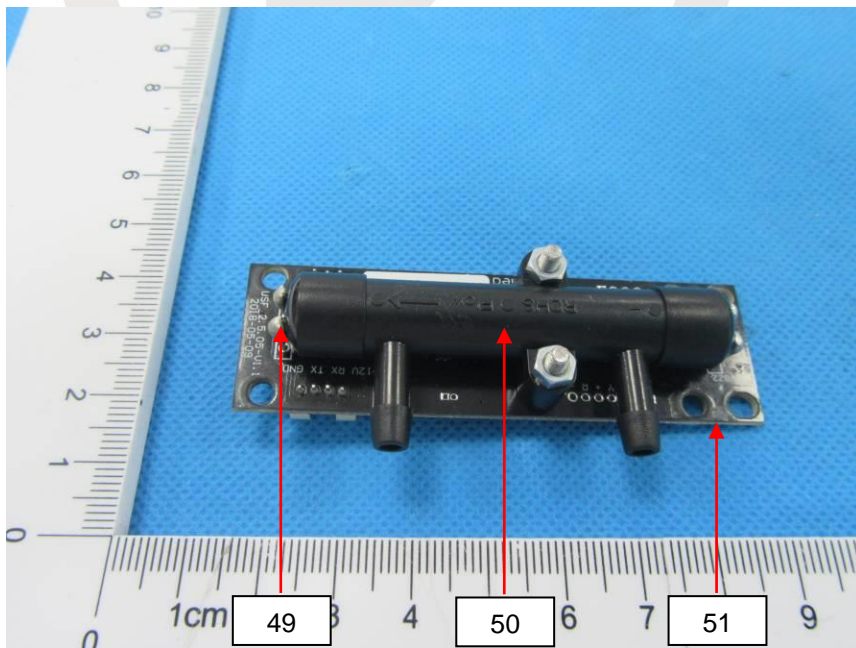
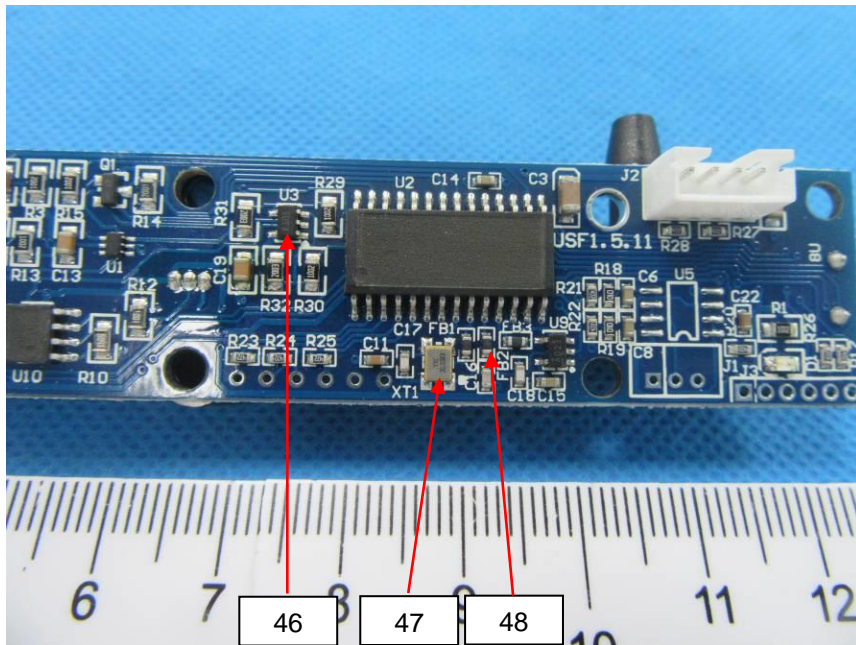


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 41 of 52



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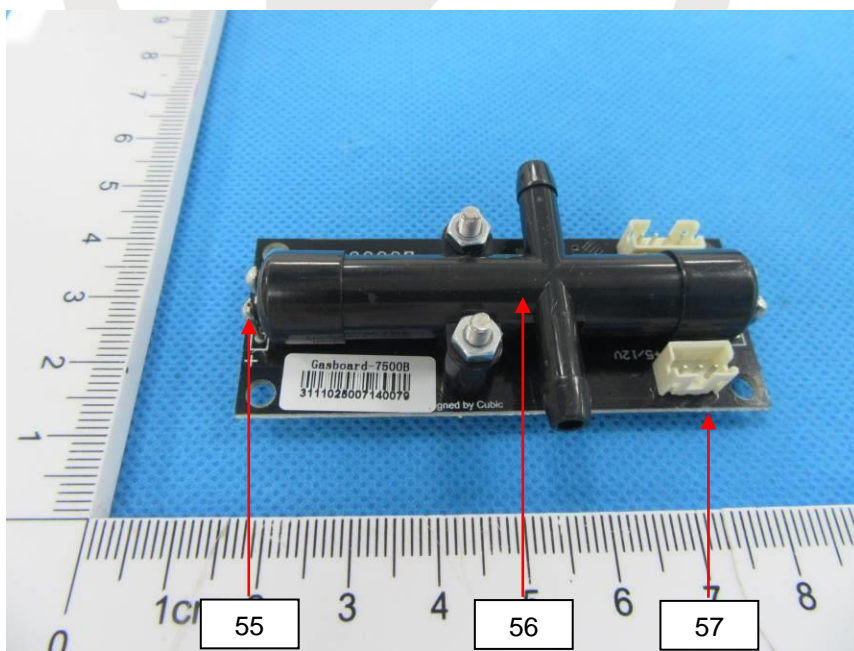
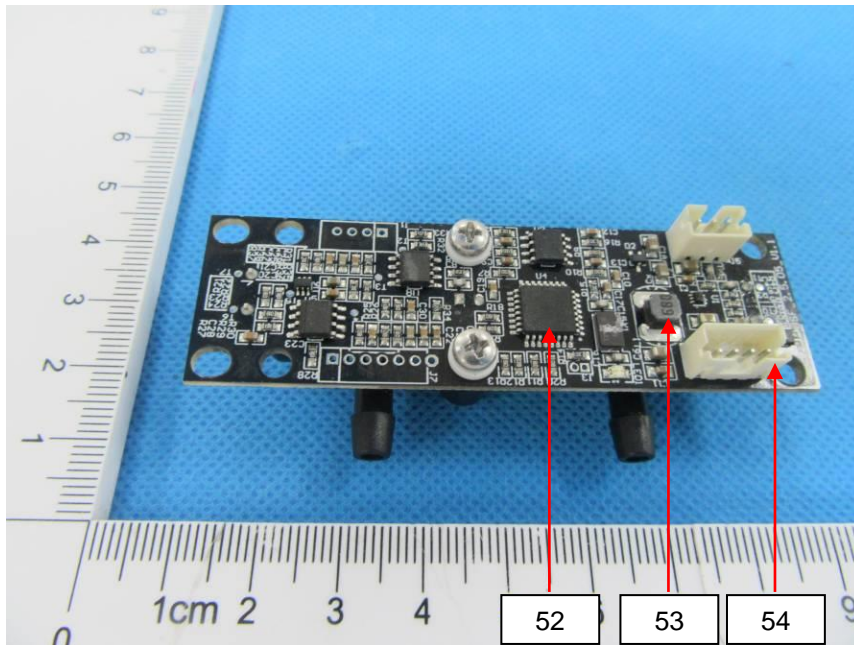


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 42 of 52



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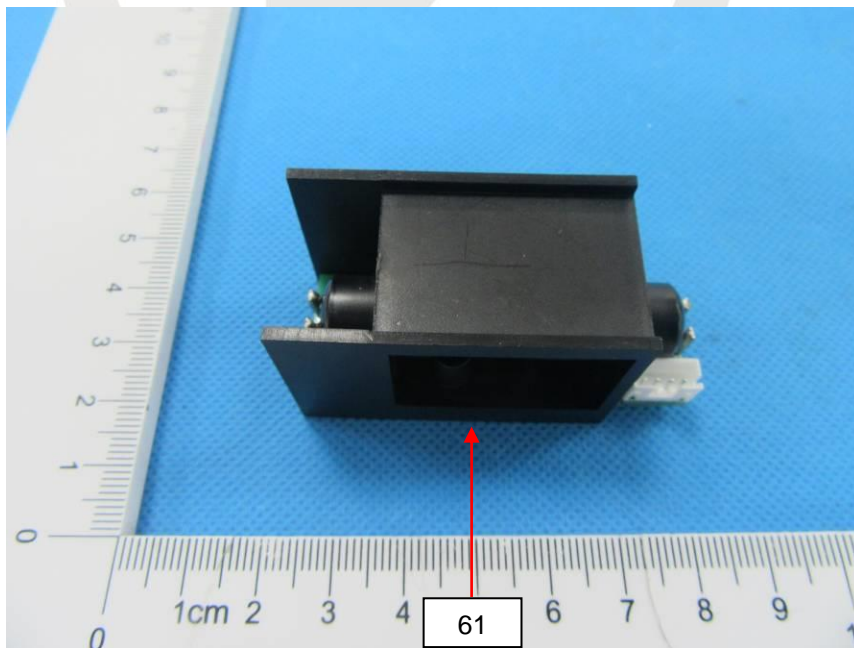
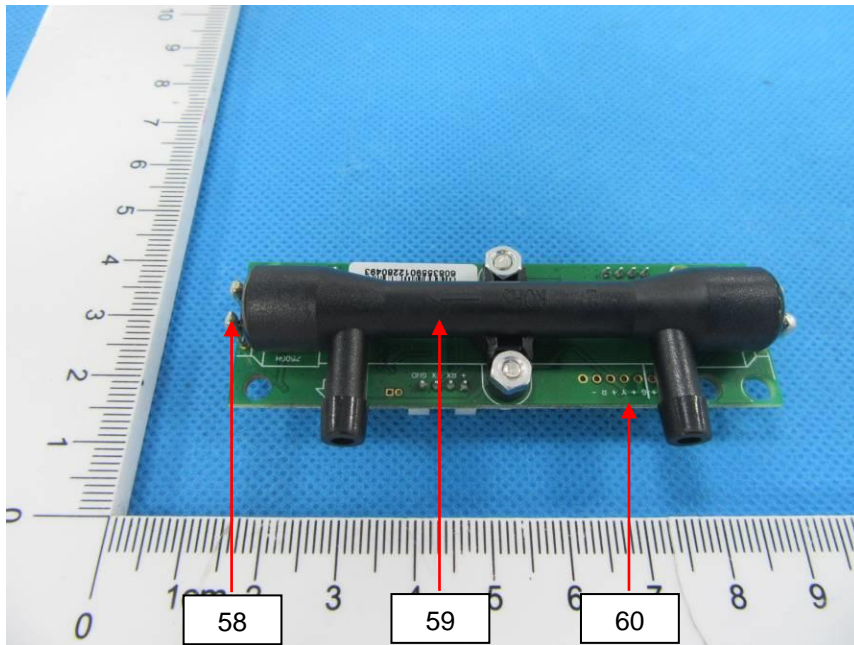


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 43 of 52



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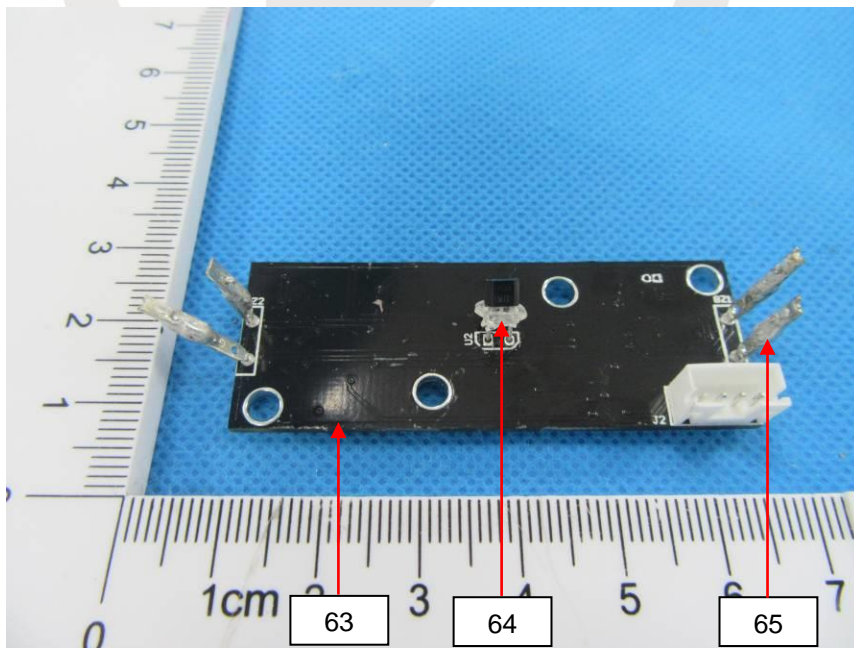
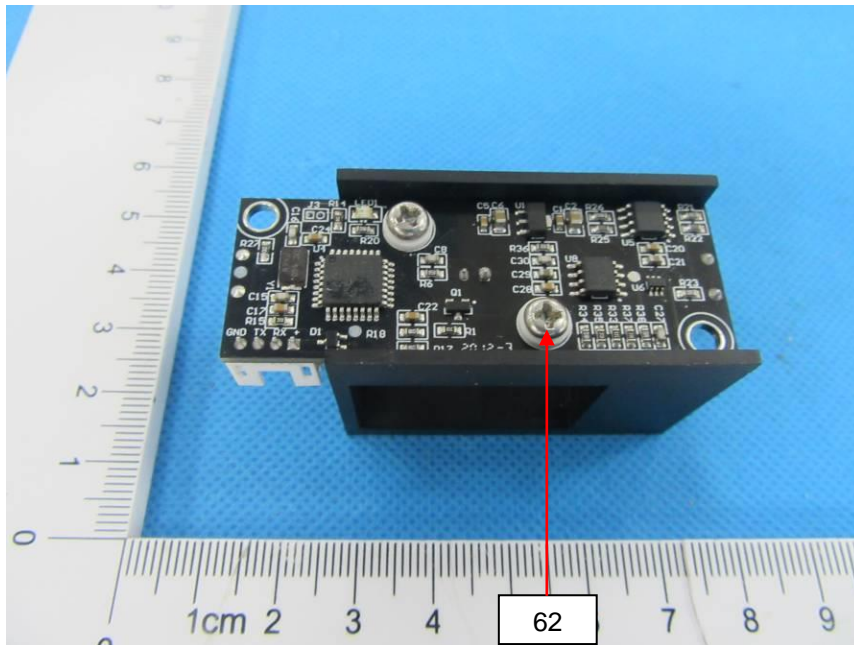


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 44 of 52



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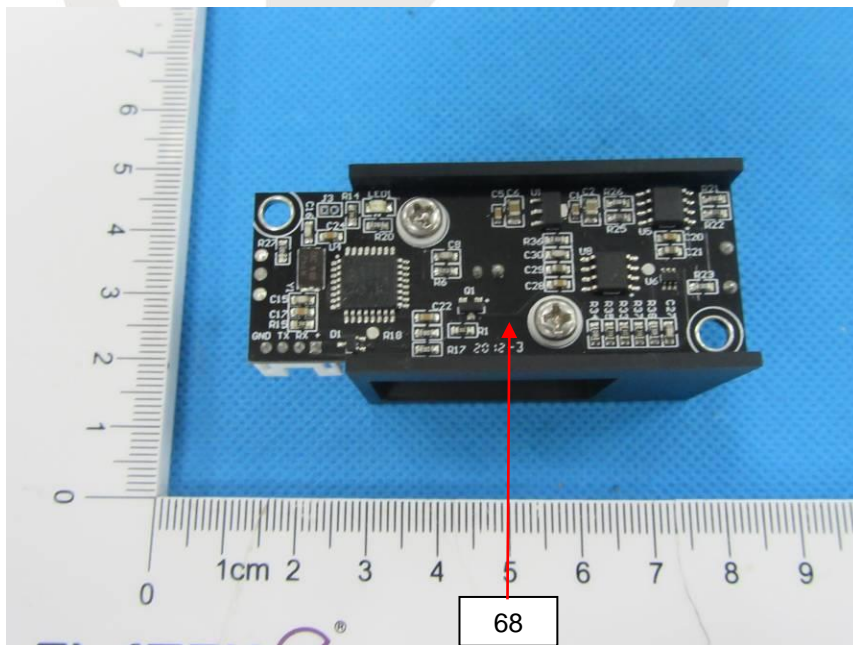
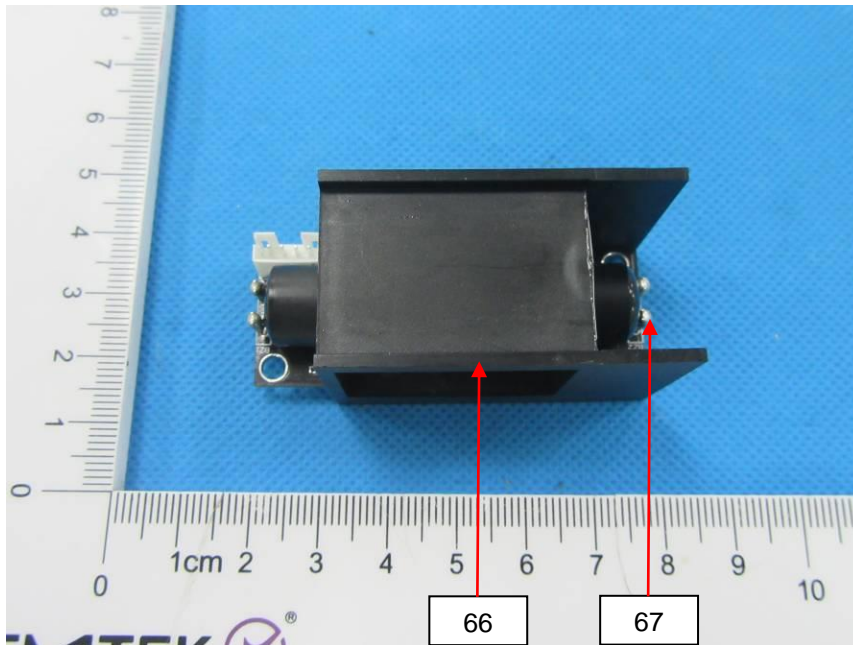


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 45 of 52



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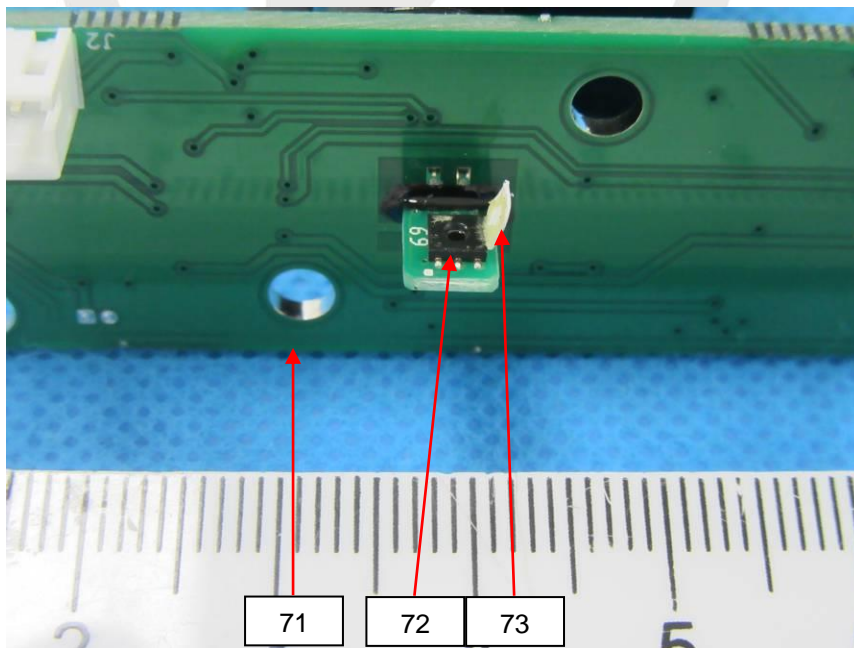
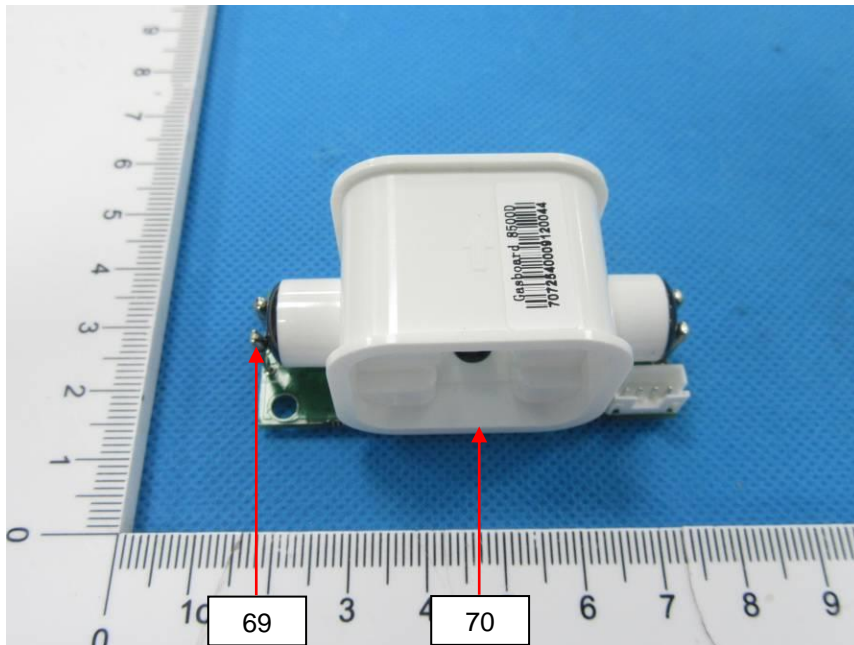


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 46 of 52



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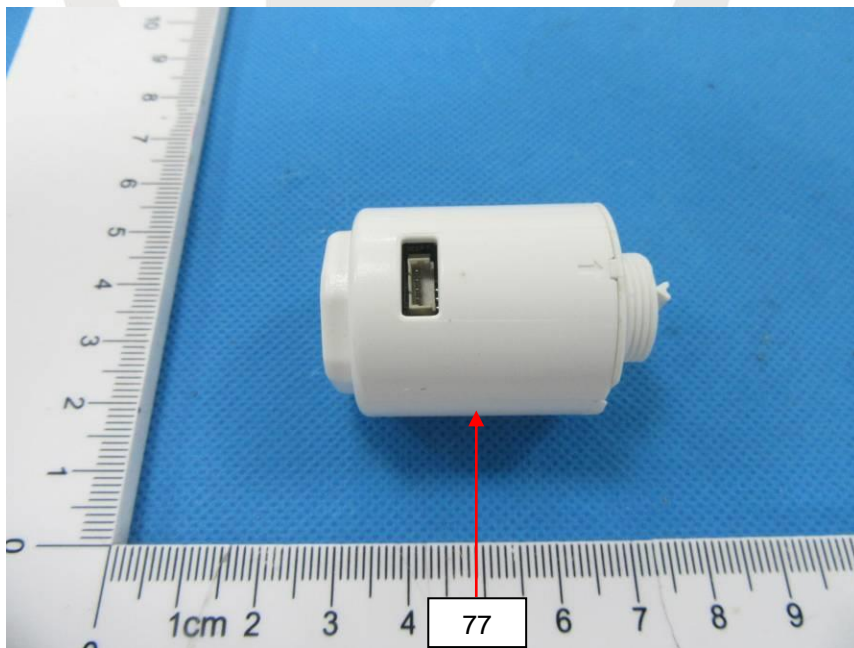
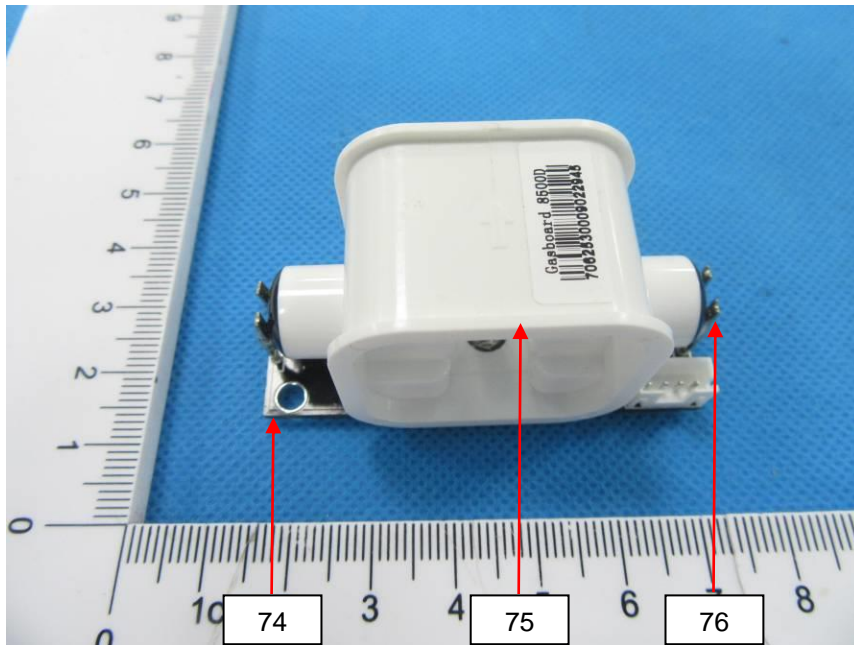


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 47 of 52



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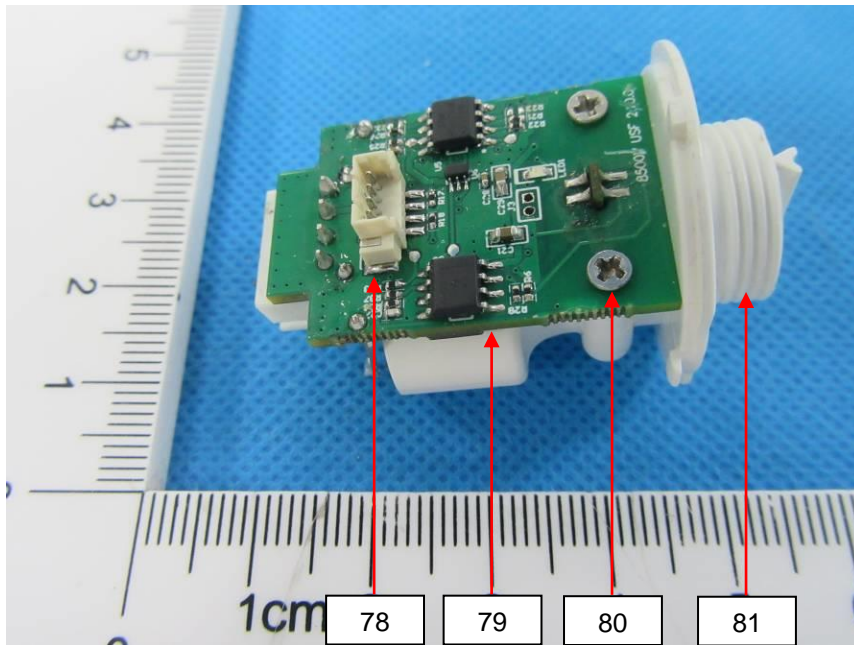


Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 48 of 52



*** End of Report ***
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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 49 of 52

ANNEX

RESTRICTED SUBSTANCES LIST

Restricted substances and maximum concentration values tolerated by weight in homogeneous materials

Lead (0.1%)	Mercury (0.1%)
Cadmium (0.01%)	Hexavalent chromium (0.1%)
Polybrominated biphenyls (PBB) (0.1%)	Polybrominated diphenyl ethers (PBDE) (0.1%)
Bis(2-ethylhexyl) phthalate (DEHP) (0.1%)	Butyl benzyl phthalate (BBP) (0.1%)
Dibutyl phthalate (DBP) (0.1%)	Diisobutyl phthalate (DIBP) (0.1%)

EXEMPTION LIST

- 1 Mercury in single capped (compact) fluorescent lamps not exceeding (per burner):
 - 1(a) For general lighting purposes < 30W: 5mg (expires on 31 December 2011; 3.5mg may be used per burner after 31 December 2011 until 31 December 2012; 2.5mg shall be used per burner after 31 December 2012)
 - 1(b) For general lighting purposes \geq 30W and <50W: 5mg (expires on 31 December 2011; 3.5mg may be used per burner after 31 December 2011)
 - 1(c) For general lighting purposes \geq 50W and <150W: 5mg
 - 1(d) For general lighting purposes \geq 150W: 15mg
 - 1(e) For general lighting purposes with circular or square structural shape and tube diameter \leq 17mm (no limitation of use until 31 December 2011; 7mg may be used per burner after 31 December 2011)
 - 1(f) For special purposes: 5mg
 - 1(g) For general lighting purposes < 30 W with a lifetime equal or above 20 000 h: 3,5 mg (Expires on 31 December 2017)
- 2(a) Mercury in double-capped linear fluorescent lamps for general lighting purposes not exceeding (per lamp):
 - 2(a)(1) Tri-band phosphor with normal lifetime and a tube diameter < 9mm (e.g. T2): 5mg (expires on 31 December 2011; 4mg may be used per lamp after 31 December 2011)
 - 2(a)(2) Tri-band phosphor with normal lifetime and a tube diameter \geq 9mm and \leq 17mm (e.g. T5): 5mg (expires on 31 December 2011; 3mg may be used per lamp after 31 December 2011)
 - 2(a)(3) Tri-band phosphor with normal lifetime and a tube diameter > 17mm and \leq 28mm (e.g. T8): 5mg (expires on 31 December 2011; 3.5mg may be used per lamp after 31 December 2011)
 - 2(a)(4) Tri-band phosphor with normal lifetime and a tube diameter > 28mm (e.g. T12): 5mg (expires on 31 December 2012; 3.5mg may be used per lamp after 31 December 2012)
 - 2(a)(5) Tri-band phosphor with long lifetime (\geq 25000h): 8mg (expires on 31 December 2011; 5mg may be used per lamp after 31 December 2011)
- 2(b) Mercury in other fluorescent lamps not exceeding (per lamp):
 - 2(b)(2) Non-linear halophosphate lamps (all diameters): 15mg (expires on 13 April 2016)
 - 2(b)(3) Non-linear tri-band phosphor lamps with tube diameter > 17mm (e.g. T9) (no limitation of use until 31 December 2011; 15mg may be used per lamp after 31 December 2011)
 - 2(b)(4) Lamps for other general lighting and special purposes (e.g. induction lamps) (no limitation of use until 31 December 2011; 15mg may be used per lamp after 31 December 2011)
- 3 Mercury in cold cathode fluorescent lamps and external electrode fluorescent lamps (CCFL and EEFL) for special purposes not exceeding (per lamp):
 - 3(a) Short length (\leq 500mm) (No limitation of use until 31 December 2011; 3.5mg may be used per lamp after 31 December 2011)
 - 3(b) Medium length (> 500mm and \leq 1500mm) (No limitation of use until 31 December 2011; 5mg may be used per lamp after 31 December 2011)
 - 3(c) Long length (> 1500mm) (No limitation of use until 31 December 2011; 13mg may be used per lamp after 31 December 2011)
- 4(a) Mercury in other low pressure discharge lamps (per lamp) (no limitation of use until 31 December 2011; 15mg may be used per lamp after 31 December 2011)
- 4(b) Mercury in High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner) in lamps with improved colour rendering index Ra > 60:
 - 4(b)-I P \leq 155W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
 - 4(b)-II 155W < P \leq 405W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
 - 4(b)-III P > 405W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
- 4(c) Mercury in other High Pressure Sodium (vapour) lamps for general lighting purposes not exceeding (per burner):
 - 4(c)-I P \leq 155W (no limitation of use until 31 December 2011; 25mg may be used per burner after 31 December 2011)
 - 4(c)-II 155W < P \leq 405W (no limitation of use until 31 December 2011; 30mg may be used per burner after 31 December 2011)
 - 4(c)-III P > 405W (no limitation of use until 31 December 2011; 40mg may be used per burner after 31 December 2011)
- 4(d) Mercury in High Pressure Mercury (vapour) lamps (HPMV) (expires on 13 April 2015)

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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 50 of 52

ANNEX

EXEMPTION LIST

Continued

- 4(e) Mercury in metal halide lamps (MH)
- 4(f) Mercury in other discharge lamps for special purposes not specifically mentioned in this Annex
- 4(g) Mercury in hand crafted luminous discharge tubes used for signs, decorative or architectural and specialist lighting and lightartwork, where the mercury content shall be limited as follows: (Expires on 31 December 2018)
- (a) 20 mg per electrode pair + 0,3 mg per tube length in cm, but not more than 80 mg, for outdoor applications and indoor applications exposed to temperatures below 20 °C;
- (b) 15 mg per electrode pair + 0,24 mg per tube length in cm, but not more than 80 mg, for all other indoor applications.
- 5(a) Lead in glass of cathode ray tubes
- 5(b) Lead in glass of fluorescent tubes not exceeding 0.2% by weight
- 6(a) Lead as an alloying element in steel for machining purposes and in galvanized steel containing up to 0.35% lead by weight
- 6(b) Lead as an alloying element in aluminium containing up to 0.4% lead by weight
- 6(c) Copper alloy containing up to 4% lead by weight.
- 7(a) Lead in high melting temperature type solders (i.e. lead based alloys containing 85% by weight or more lead)
- 7(b) Lead in solders for servers, storage and storage array systems, network infrastructure equipment for switching, signalling, transmission, and network management for telecommunications
- 7(c)-I Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectric devices, or in a glass or ceramic matrix compound
- 7(c)-II Lead in dielectric ceramic in capacitors for a rated voltage of 125V AC or 250V DC or higher
- 7(c)-III Lead in dielectric ceramic in capacitors for a rated voltage of less than 125V AC or 250V DC (expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013).
- 7(c)-IV Lead in PZT based dielectric ceramic materials for capacitors being part of integrated circuits or discrete semiconductors
- 8(a) Cadmium and its compounds in one shot pellet type thermal cut-offs (expires on 1 January 2012 and after that date may be used in spare parts for EEE placed on the market before 1 January 2012)
- 8(b) Cadmium and its compounds in electrical contacts
- 9 Hexavalent chromium as an anti-corrosion agent of the carbon steel cooling system in absorption refrigerators up to 0.75% by weight in the cooling solution
- 9(b) Lead in bearing shells and bushes for refrigerant-containing compressors for heating, ventilation, air conditioning and refrigeration (HVACR) applications
- 11(b) Lead used in other than C-press compliant pin connector systems (expires on 1 January 2013 and after that date may be used in spare parts for EEE placed on the market before 1 January 2013)
- 13(a) Lead in white glasses used for optical applications
- 13(b) Cadmium and lead in filter glasses and glasses used for reflectance standards
- 14 Lead in solders consisting of more than two elements for the connection between the pins and the package of microprocessors with a lead content of more than 80% and less than 85% by weight (expires on 1 January 2011 and after that date may be used in spare parts for EEE placed on the market before 1 January 2011)
- 15 Lead in solders to complete a viable electrical connection between semiconductor die and carrier within integrated circuit Flip Chip packages
- 17 Lead halide as radiant agent in High Intensity Discharge (HID) lamps used for professional reprography applications
- 18(b) Lead as activator in the fluorescent powder (1% lead by weight or less) of discharge lamps when used as sun tanning lamps containing phosphors such as BSP (BaSi2O5:Pb)
- 21 Lead and cadmium in printing inks for the application of enamels on glasses, such as borosilicate and soda lime glass
- 24 Lead in solders for the soldering to machined through hole discoidal and planar array ceramic multilayer capacitors
- 25 Lead oxide in surface conduction electron emitter displays (SED) used in structural elements, notably in the seal frit and frit ring
- 29 Lead bound in crystal glass as defined in Annex 1 (Categories 1, 2, 3 and 4) of Council Directive 69/493/EEC
- 30 Cadmium alloys as electrical/mechanical solder joints to electrical conductors located directly on the voice coil in transducers used in high-powered loudspeakers with sound pressure levels of 100 dB (A) and more
- 31 Lead in soldering materials in mercury free flat fluorescent lamps (which e.g. are used for liquid crystal displays, design or industrial lighting)
- 32 Lead oxide in seal frit used for making window assemblies for Argon and Krypton laser tubes
- 33 Lead in solders for the soldering of thin copper wires of 100 µm diameter and less in power transformers
- 34 Lead in cermet-based trimmer potentiometer elements
- 37 Lead in the plating layer of high voltage diodes on the basis of a zinc borate glass body
- 38 Cadmium and cadmium oxide in thick film pastes used on aluminium bonded beryllium oxide

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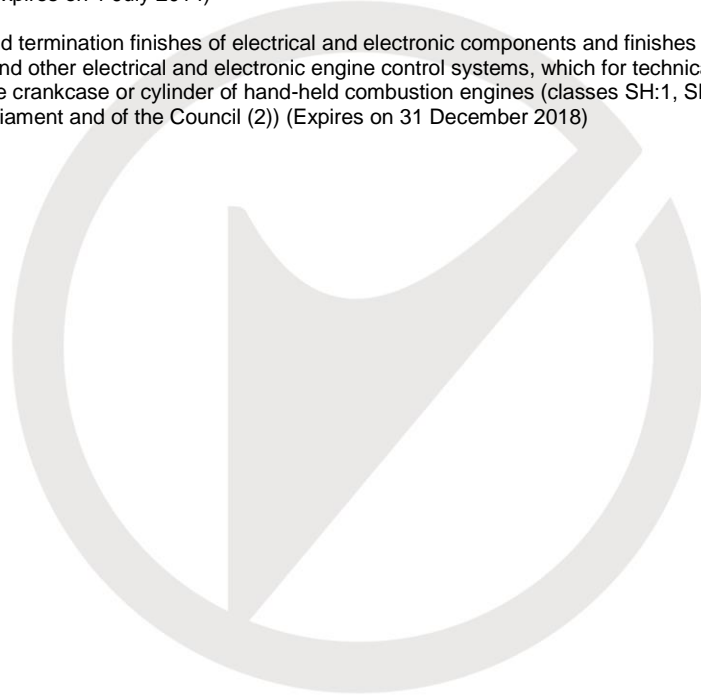
Date: Apr. 19, 2021

Page 51 of 52

ANNEX EXEMPTION LIST

Continued

- 39 Cadmium in colour converting II-VI LEDs ($< 10 \mu\text{g Cd per mm}^2$ of light-emitting area) for use in solid state illumination or display systems (expires on 1 July 2014)
- 41 Lead in solders and termination finishes of electrical and electronic components and finishes of printed circuit boards used in ignition modules and other electrical and electronic engine control systems, which for technical reasons must be mounted directly on or in the crankcase or cylinder of hand-held combustion engines (classes SH:1, SH:2, SH:3 of Directive 97/68/EC of the European Parliament and of the Council (2)) (Expires on 31 December 2018)



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Test Report

No.: EY210329013C016

Date: Apr. 19, 2021

Page 52 of 52

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