

No. SHAEC1615411302

日期: 2016年07月29日 第1页,共12页

上海庆科信息技术有限公司 上海市普陀区金沙江路2145弄5号9楼

样品名称:

EMW5031

SGS工作编号:

SP16-025019 - SUZ

测试基本型号:

EMW5031

客户参考信息:

EMW5031-P/EMW5031-E

样品接收日期:

2016年07月13日

验证周期:

2016年07月13日 - 2016年07月28日

验证要求:

参考欧盟RoHS指令2011/65/EU的修正指令2015/863/EU。

验证方法:

请参见后续页。

验证结果:

请参见后续页。

验证结论:

依据对所提供样品的相关验证,铅、汞、镉、六价铬、多溴联苯(PBBs)、多溴二苯

醚(PBDEs) 和邻苯二甲酸酯(如邻苯二甲酸二丁酯 (DBP)、邻苯二甲酸丁苄

酯(BBP)、邻苯二甲酸二(2-乙基已基)酯(DEHP)和邻苯二甲酸二异丁酯(DIBP))的测试结果符合欧盟RoHS指令2011/65/EU附录II修正指令2015/863/EU的限值要求。本报告测试数据仅代表所测试样品的结果,未经实验室书面授权,不得部分复制本

备注:

报告。

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1 P

Terry Wang 王卫 批准签署人



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验证方法:

No. SHAEC1615411302

日期: 2016年07月29日 第2页.共12页

- 1. 参考IEC 62321-2:2013, 拆分申请者提供的成品。
- 2. 参考IEC 62321-1:2013, 仅对本报告照片中标识的样品进行了下列测试分析。
- (1) 参考IEC 62321-3-1: 2013, 用能量色散型X射线荧光分析仪器进行筛选
- (2) 湿法化学测试方法
- a. 参考IEC 62321-5:2013,用ICP-OES测定镉的含量
- b. 参考IEC 62321-5:2013,用ICP-OES测定铅的含量
- c. 参考IEC 62321-4:2013,用ICP-OES测定汞的含量
- d. 参考IEC 62321-7-1:2015 和IEC 62321:2008, 用紫外-可见分光光度计 比色法测定六价铬的含量
- e. 参考IEC 62321-6:2015,用GC-MS测定多溴联苯和多溴二苯醚的含量
- 3. 参考IEC 62321-8 (111/321/CD) 用GC-MS测定邻苯二甲酸酯的含量



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No. SHAEC1615411302

日期: 2016年07月29日 第3页,共12页

样品编号	样品描述	限用物质	EDXRF 测 试结果(1)		化学测试结 果(3) (mg/kg)	EU RoHS 结论	样品提交/再 次提交日期
1	EMW5031-屏蔽罩上白色 塑料标签	Pb Cd Hg Cr(VI)▼ PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL 	IN IN IN IN	ND ND ND ND ND	符符符符符符符符符符符	13 Jul 2016 22 Jul 2016
2	EMW5031-银色金属屏蔽罩	Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL		 	符合 符合 符合 	13 Jul 2016



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日期: 2016年07月29日 第4页.共12页

样品编号	样品描述	限用物质	EDXRF 测 试结果(1)		化学测试结 果(3) (mg/kg)	EU RoHS 结论	样品提交/再 次提交日期
3	EMW5031-插座上白色塑	Pb	BL			符合	13 Jul 2016
	料外壳	Cd	BL			符合	
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs	BL			符合	
		PBDEs	BL			符合	
		DBP		IN	ND	符合	
		BBP		IN	ND	符合	
		DEHP		IN	ND	符合	
		DIBP		IN	ND	符合	
4	EMW5031-插座上银色金	Pb	BL			符合	13 Jul 2016
	属插针	Cd	BL			符合	
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					



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No. SHAEC1615411302

日期: 2016年07月29日 第5页.共12页

样品编号	样品描述	限用物质	EDXRF 测 试结果(1)		化学测试结 果(3) (mg/kg)	EU RoHS 结论	样品提交/再 次提交日期
5	EMW5031-银色晶振本体	Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL BL 	IN IN IN IN	ND ND ND ND ND	符符符符符符符符符符符符	13 Jul 2016 22 Jul 2016
6	EMW5031-黑色IC1本体	Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL IN IN	 IN IN IN	ND ND ND ND ND ND ND ND	符符符符符符符符符符符符	13 Jul 2016



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日期: 2016年07月29日 第6页.共12页

样品编号	样品描述	限用物质	EDXRF 测 试结果(1)	PHTH筛 分结果(2)	化学测试结 果(3) (mg/kg)	EU RoHS 结论	样品提交/再 次提交日期
7	EMW5031-黑色IC2本体	Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL	IN IN IN IN	 ND ND ND ND	符符符符符符符符符符符	13 Jul 2016
8	EMW5031-黑色二极管本体	Pb Cd Hg Cr(VI) PBBs PBDEs DBP BBP DEHP DIBP	BL BL BL BL	IN IN IN IN	 ND ND ND ND	符符符符符符符符符符符符	13 Jul 2016 22 Jul 2016



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No. SHAEC1615411302

日期: 2016年07月29日 第7页.共12页

样品编号	样品描述	限用物质	EDXRF 测 试结果(1)	1	化学测试结 果(3) (mg/kg)	EU RoHS 结论	样品提交/再 次提交日期
		Pb	BL			符合	
9	EMW5031-银色金属焊锡	Cd	BL			符合	13 Jul 2016
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs					
		PBDEs					
		DBP					
		BBP					
		DEHP					
		DIBP					
10	EMW5031-蓝色PCB本体	Pb	BL			符合	13 Jul 2016
		Cd	BL			符合	10 001 20 10
		Hg	BL			符合	
		Cr(VI)▼	BL			符合	
		PBBs	IN		ND	符合	
		PBDEs	IN		ND	符合	
		DBP		IN	ND	符合	
		BBP		IN	ND	符合	
		DEHP		IN	ND	符合	
		DIBP		IN	ND	符合	



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日期: 2016年07月29日 第8页.共12页

备注:

- (1) (a) 对于限用物质是PBBs和PBDEs, 其结果显示的是总Br含量; 限用物质是Cr(VI), 其结果显示的是总Cr含量。
 - (b) EDXRF所得的测试结果只作初步筛选,如果EDXRF结果超出IEC62321-3-1:2013 所规定的警戒范围,我们建议客户用更精确的化学测试方法测试样品,如用ICP-OES测试Cd,Pb,Hg;用UV-Vis测试Cr(VI);用GC-MS测试PBBs和PBDEs(单位:mg/kg)。

元素	聚合物	金属	复合材料
Cd	BL ≤(70-3σ)< X <(130+3σ)≤OL	BL ≤(70-3σ)< X <(130+3σ)≤OL	LOD < X <(150+3σ)≤ OL
Pb	BL ≤(700-3σ)< X<(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X<(1500+3σ)≤ OL
Hg	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(700-3σ)< X <(1300+3σ)≤ OL	BL ≤(500-3σ)< X <(1500+3σ)≤ OL
Br	BL ≤ (300-3σ)< X		BL ≤ (250-3σ)< X
Cr	BL ≤ (700-3σ)< X	BL ≤ (700-3σ)< X	BL ≤ (500-3σ)< X

- (c) BL = 低于限度, OL = 超出限度, IN = 不确定, LOD = 检测限, --= 未规定。
- (d) 对于复合材料,XRF筛选测试RoHS元素所得数据可能与样品中实际含量不同。
- (2) PHTH筛分结果只作初步筛选,如果测试结果超出下表所规定的警戒范围,我们采用更精确的化学测试方法测试样品,用GC-MS测试DBP、BBP、DEHP和DIBP(单位: mg/kg)。

化合物	聚合物
DBP	BL ≤ 600< X
BBP	BL ≤ 600< X
DEHP	BL ≤ 600< X
DIBP	BL ≤ 600< X

- (3) (a) mg/kg = 0.0001%, MDL-方法检测限, ND = 未检出(低于MDL), --- = 未检测, = 无清单编号。
 - (b) 化学测试方法的表达单位和方法检测限

测试项目	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
单位	mg/kg						
方法检测限	10	10	10	100	100	100	100



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任何一种PBBs和PBDEs的方法检测限是100 mg/kg; 聚合物和复合材料样品中Cr(VI)的方法检测限是10 mg/kg; 金属样品中Cr(VI)的方法检测限是0.10µg/cm²。

- (c) ▼ = 金属样品中
 - a. 当六价铬的浓度高于0.13 μg/cm²时,样品为阳性,即含有六价铬;
 - b. 当六价铬的浓度为ND(低于0.10 µg/cm²)时,样品为阴性,即未检测到六价铬;
 - c. 当六价铬的浓度介于0.10 µg/cm²与0.13 µg/cm²之间时,无法直接判定是否检测到六价铬,因不同个体的样品表面差异可能会影响测定结果;

由于未获知样品的存储条件和生产日期,样品的六价铬测试结果仅能代表测试时样品含六价铬的状态。

IEC 62321系列等同于 EN 62321系列

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP_ORG_ID,FSP_LANG_ID:1258637, 25>

(3) 根据申请商申明,型号"EMW5031"的材质与型号"EMW5031-P, EMW5031-E"的相同,其测试结果用于替代型号"EMW5031-P, EMW5031-E"的测试结果。申请公司将承担所有的差异和风险。



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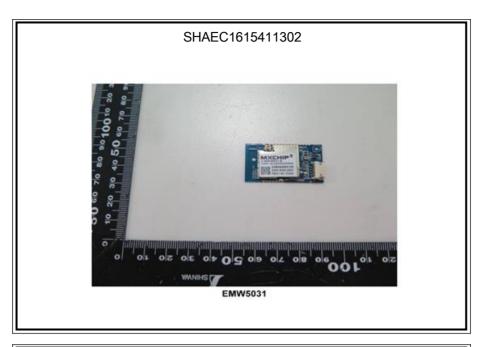
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日期: 2016年07月29日 第10页.共12页

样品照片:







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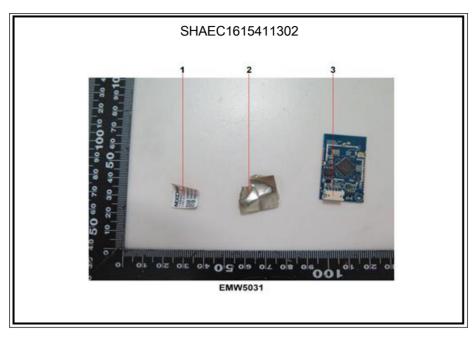
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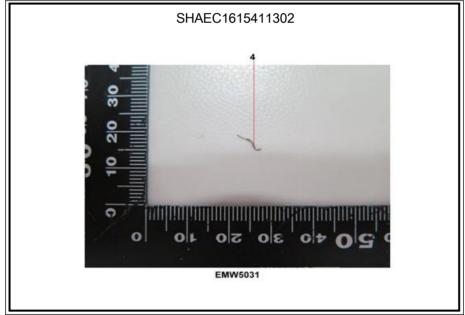
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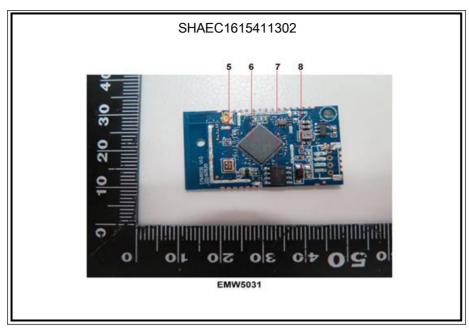
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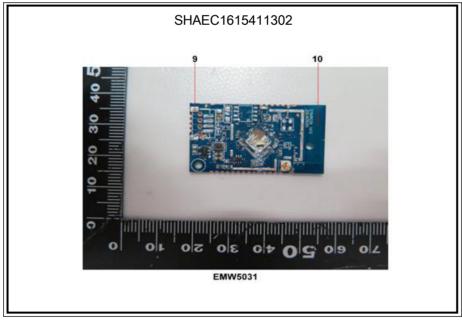
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