Test Report No. 64.164.23.00684.01A
Rev. 00
Dated 2023-02-21

Applicant:	Zhongshan city SPAR Optoelectronics Technology Co., Ltd
Address:	NO.9 HengKang Street, CaoSan TongYi Industrial, GuZhen Town, ZhongShan City, GuangDong Province, P.R.China
Sample Description:	LED BULB
Tested Model No.:	SPARAC-E14-6W-CE2-6, SPARAC-E14-3.5W-CE3-6, SPARAC-E14-3W-011-6, SPARAC-E14-4W-CE2-N3, SPARAC-E14-3.5W-0S1-6
Reference Model No.:	See model list in APPENDIX III
Sample Received Date:	2023-02-01, 2023-02-13
Test Period:	From 2023-02-01 to 2023-02-09, 2023-02-13 to 2023-02-20
Purpose of examination:	Verification of RoHS (Restriction of Hazardous Substances) directive 2011/65/EU and its amendment (EU) 2015/863 on submitted samples
Test Result:	Refer to following page(s)
Remark:	-The result relates only to the items tested. -The reference model No. were declared by clients.

TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch
TÜV SÜD Group

Prepared by:

York Zhang
Project Handler

Reviewed by:

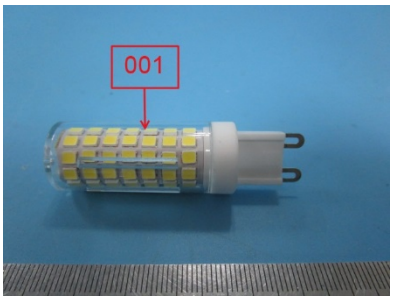
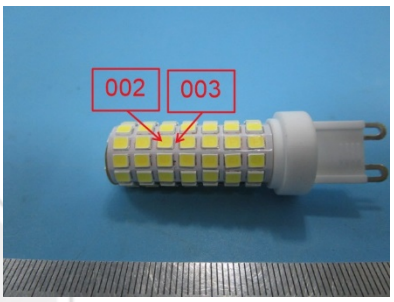
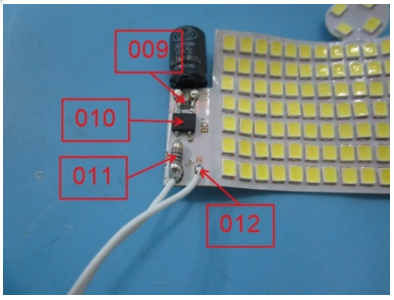
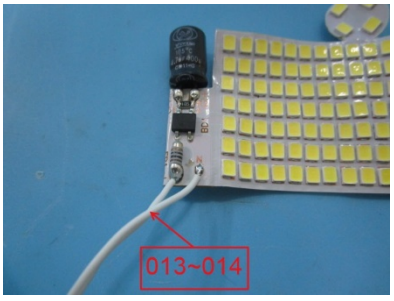
Ben Shao
Designated Reviewer

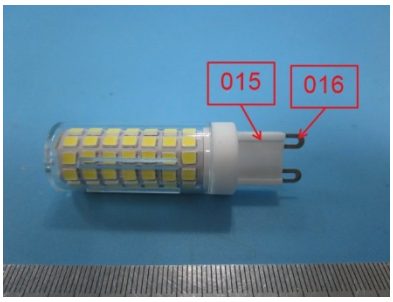
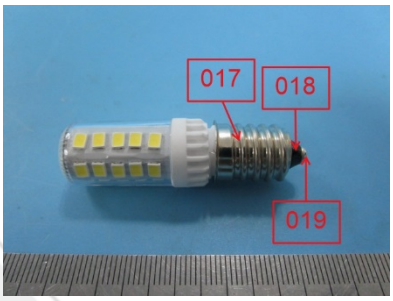
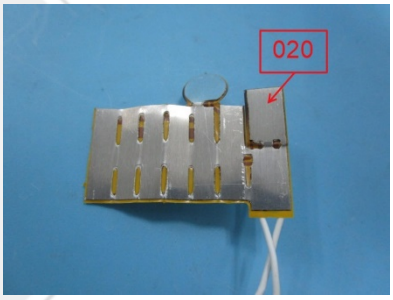
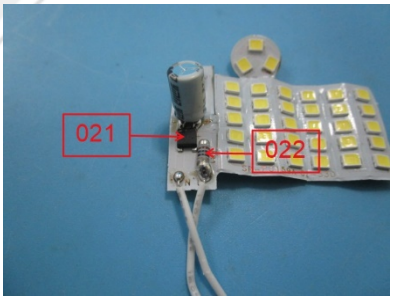
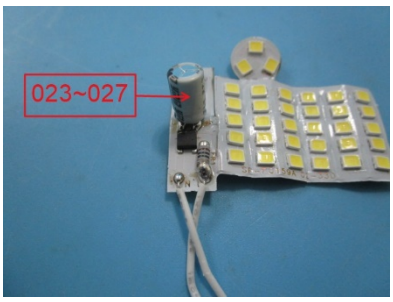
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Disclaimer Measurement Uncertainty: Unless otherwise agreed upon, pass or fail verdicts are given based on the measured values without consideration of measurement uncertainties. Please note, every test method has a measurement uncertainty which has been evaluated by the laboratory according to ISO IEC 17025 requirements. By taking measurement uncertainties into account it might happen that measured values can neither be assessed as pass or fail.

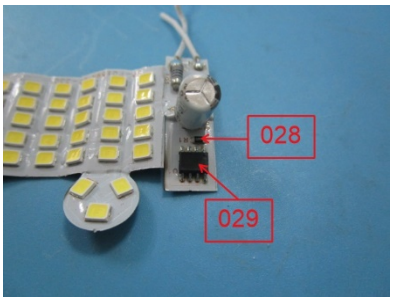
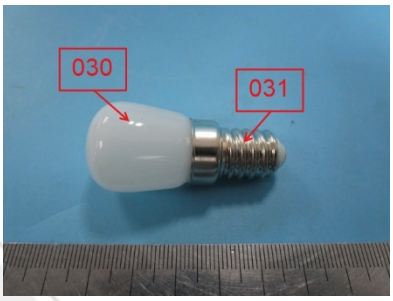
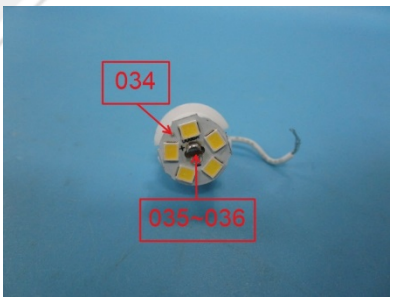
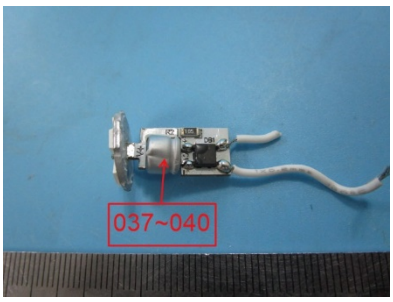
SUMMARY OF TEST RESULTS

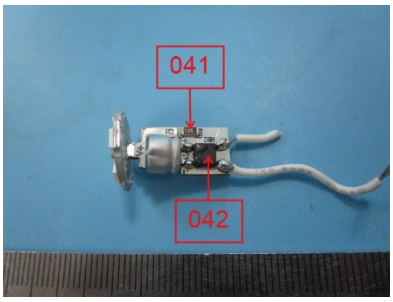
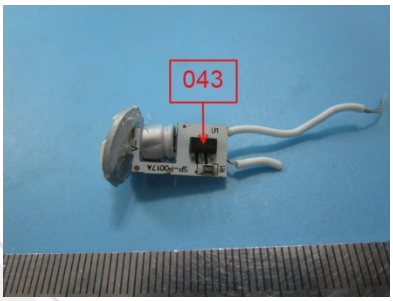
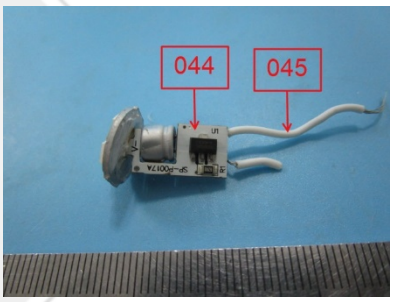
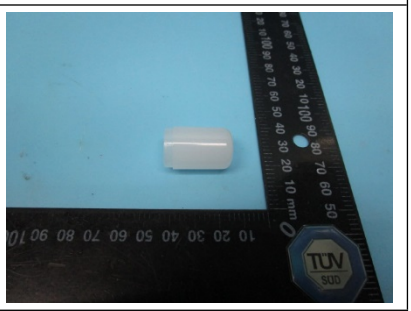
No.	Test Requested	Conclusion	Remarks
1.	Heavy Metal (Pb, Cd, Hg and Cr VI) Content	**PASS**	/
2.	Polybrominated Biphenyls (PBBs) and Polybrominated Diphenyl Ethers (PBDEs) Content	**PASS**	/
3.	Phthalates (DEHP, BBP, DBP and DIBP) Content	**PASS**	/

1. TESTED SUBJECT DESCRIPTION

Sample Number	Tested Material Description	Photo
001	Transparent plastic lampshade	
002	Yellow body (LED)	
003	White PCB tape with adhesive tape	
004	White printed black plastic sleeve	
005	Silvery metal shell	
006	Black plastic cap	
007	Beige paper foil	
008	Grey metal foil with metal pin	
009	Black printed white body	
010	Black body	
011	Multicolor printed grey body	
012*	Silvery metal solder	
013	White soft plastic wire jacket	
014	Silvery metal wire	

Sample Number	Tested Material Description	Photo
015	White ceramic holder	
016	Silvery metal sheet	
017	Silvery metal holder	
018	Black plastic holder	
019	Silvery metal part	
020	Silvery metal sheet	
021	Black body	
022	Multicolor printed grey body	
023	Black printed white plastic sleeve	
024	Silvery metal shell	
025	Black plastic cap	
026	Beige paper foil	
027	Grey metal foil with metal pin	

Sample Number	Tested Material Description	Photo
028	Black printed white body	
029	Black body	
030	White glass lampshade	
031	Silvery metal holder	
032	White plastic holder	
033	Silvery metal part	
034	White PCB	
035	Silvery metal solder	
036	Brown body	
037	Silvery metal shell	
038	Black plastic cap	
039	Beige paper foil	
040	Grey metal foil with metal pin	

Sample Number	Tested Material Description	Photo
041	Black printed white body	
042	Black body	
043	Black body	
044	White PCB	
045	White soft plastic wire jacket	
046	White/translucence plastic lampshade	
047	White plastic lampshade	

Remark: * means the retest sample was provided by client on 2023-02-13.

2. TEST RESULTS

2.1. SCREENING TEST

Test method: With reference to EN 62321-1:2013, EN IEC 62321-2:2021, EN 62321-3-1:2014 and EN 62321-8:2017. For Heavy Metals and Flame Retardants, analyzed by Energy Dispersive X-ray Fluorescence Spectrometers (XRF); for phthalates, analyzed by Gas Chromatography and Mass Spectrometry (GC-MS).

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
001	BL	BL	BL	BL	BL	BL	BL	BL	BL
002	BL	BL	BL	BL	BL	BL	BL	BL	BL
003	BL	BL	BL	BL	BL	BL	BL	BL	BL
004	BL	BL	BL	BL	BL	BL	BL	BL	BL
005	BL	BL	BL	BL	NA	NA	NA	NA	NA
006	BL	BL	BL	BL	BL	BL	BL	BL	BL
007	BL	BL	BL	BL	BL	BL	BL	BL	BL
008	BL	BL	BL	BL	NA	NA	NA	NA	NA
009	BL	BL	BL	**OL**[(a)]	BL	BL	BL	BL	BL
010	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
011	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
012 δ	BL	BL	BL	**Inc.**[(a)]	NA	NA	NA	NA	NA
013	BL	BL	BL	BL	BL	BL	BL	BL	BL
014	BL	BL	BL	BL	NA	NA	NA	NA	NA
015	BL	BL	BL	BL	BL	BL	BL	BL	BL
016	BL	BL	BL	BL	NA	NA	NA	NA	NA
017	BL	BL	BL	BL	NA	NA	NA	NA	NA
018	BL	**Inc.**[(a)]	BL	BL	BL	BL	BL	BL	BL
019	BL	BL	BL	BL	NA	NA	NA	NA	NA
020	BL	BL	BL	BL	NA	NA	NA	NA	NA
021	BL	BL	BL	**Inc.**[(d)]	**Inc.**[(a)]	BL	BL	BL	BL
022	BL	**Inc.**[(a)]	BL	BL	BL	BL	BL	BL	BL
023	BL	BL	BL	BL	BL	BL	BL	BL	BL
024	BL	BL	BL	BL	NA	NA	NA	NA	NA
025	BL	BL	BL	BL	BL	BL	BL	BL	BL
026	BL	BL	BL	BL	BL	BL	BL	BL	BL
027	BL	BL	BL	BL	NA	NA	NA	NA	NA
028	BL	BL	BL	**OL**[(a)]	BL	BL	BL	BL	BL

Sample No.	Heavy Metals and Flame Retardants					Phthalates			
	Cd	Cr	Hg	Pb	Br	DEHP	BBP	DBP	DIBP
029	BL	BL	BL	BL	BL	BL	BL	BL	BL
030	BL	BL	BL	BL	BL	BL	BL	BL	BL
031	BL	BL	BL	BL	NA	NA	NA	NA	NA
032	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
033	BL	BL	BL	BL	NA	NA	NA	NA	NA
034	BL	BL	BL	BL	BL	BL	BL	BL	BL
035	**Inc.**[(a)]	BL	BL	BL	NA	NA	NA	NA	NA
036	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
037	BL	**Inc.**[(a)]	BL	BL	NA	NA	NA	NA	NA
038	BL	BL	BL	BL	BL	BL	BL	BL	BL
039	BL	BL	BL	BL	BL	BL	BL	BL	BL
040	BL	BL	BL	BL	NA	NA	NA	NA	NA
041	BL	**Inc.**[(a)]	BL	**OL**[(a)]	BL	BL	BL	BL	BL
042	BL	BL	BL	**Inc.**[(d)]	BL	BL	BL	BL	BL
043	BL	BL	BL	BL	BL	BL	BL	BL	BL
044	BL	BL	BL	BL	**Inc.**[(a)]	BL	BL	BL	BL
045	BL	BL	BL	BL	BL	BL	BL	BL	BL
046	BL	BL	BL	BL	BL	BL	BL	BL	BL
047	BL	BL	BL	BL	BL	BL	BL	BL	BL

Note:

- "BL" denotes below limit
- "OL" denotes over limit
- "Inc." denotes inconclusive
- "NA" denotes not applicable
- "[(a)]" denotes further confirmation test was conducted, results are listed in 2.2, 2.3.
- "(d)" denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 7(a) *"lead in high melting temperature type solder (i. e. lead-based alloy containing 85% by weight or more lead)".*
- δ means the retest result

— XRF screening limits in mg/kg for regulated elements in various matrices

ELEMENT	POLYMER		
	BL	INCONCLUSIVE	OL
Cd	X<(70-3σ)	(70-3σ)<X<(130+3σ)	X>(130+3σ)
Pb	X<(700-3σ)	(700-3σ)<X<(1300+3σ)	X>(1300+3σ)
Hg	X<(700-3σ)	(700-3σ)<X<(1300+3σ)	X>(1300+3σ)
Br	X<(300-3σ)	X>(300-3σ)	NA
Cr	X<(700-3σ)	X>(700-3σ)	NA

ELEMENT	METAL		
	BL	INCONCLUSIVE	OL
Cd	X<(70-3σ)	(70-3σ)<X<(130+3σ)	X>(130+3σ)
Pb	X<(700-3σ)	(700-3σ)<X<(1300+3σ)	X>(1300+3σ)
Hg	X<(700-3σ)	(700-3σ)<X<(1300+3σ)	X>(1300+3σ)
Cr	X<(700-3σ)	X>(700-3σ)	NA

ELEMENT	COMPLEX MATERIAL		
	BL	INCONCLUSIVE	OL
Cd	X<(50-3σ)	(50-3σ)<X<(150+3σ)	X>(150+3σ)
Pb	X<(500-3σ)	(500-3σ)<X<(1500+3σ)	X>(1500+3σ)
Hg	X<(500-3σ)	(500-3σ)<X<(1500+3σ)	X>(1500+3σ)
Br	X<(250-3σ)	X>(250-3σ)	NA
Cr	X<(500-3σ)	X>(500-3σ)	NA

— Screening limits in mg/kg for regulated phthalates in various matrices

PHTHALATES	BL	INCONCLUSIVE
DEHP	X<600	X≥ 600
BBP	X<600	X≥ 600
DBP	X<600	X≥ 600
DIBP	X<600	X≥ 600

2.2. HEAVY METAL CONTENT

Test method: With reference to EN 62321-4:2014/A1:2017, EN 62321-5:2014, EN 62321-7-1:2015 and EN 62321-7-2:2017, analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES) and UV-Vis spectrophotometer. [Reporting Limit: 2mg/kg for Cadmium; 10mg/kg or 0.10μg/cm^2 for Hexavalent Chromium, 10mg/kg for Lead and Mercury.]

Sample No.	Result				
	Total Cadmium	Hexavalent Chromium	Hexavalent Chromium	Total Mercury	Total Lead
009	--	--	/	--	**1.17x10$^{3(e)}$**
012 δ	--	/	--	--	50
018	--	< 10	/	--	--
022	--	< 10	/	--	--
028	--	--	/	--	**1.28x10$^{3(e)}$**
035	< 2	/	--	--	--
037	--	/	Negative	--	--
041	--	< 10	/	--	**1.10x10$^{3(e)}$**
Unit	mg/kg	mg/kg	μg/cm^2	mg/kg	mg/kg
RoHS Requirement	100	1000	Negative$^{\#}$	1000	1000

Note:

- "mg/kg" denotes milligram per kilogram
- "μg/cm^2" denotes micrograms per square centimeter
- "<" denotes less than
- "Negative" denotes the absorbance value of sample is < 0.10 μg/cm^2, the sample is considered to be negative for Hexavalent Chromium.
- "#" According to DIRECTIVE 2011/65/EU Article 4(1) and Annex II. While, positive means the presence of CrVI on tested areas and the result(s) was (were) regarded as in conflict with European Parliament and Council Directive 2011/65/EU, Article 4(1) and Annex II.
- "--" denotes tested by XRF, result is listed in 2.1
- "(e)" denotes the exempt item according to DIRECTIVE 2011/65/EU Annex III item 7(c)-I *"Electrical and electronic components containing lead in a glass or ceramic other than dielectric ceramic in capacitors, e.g. piezoelectronic devices, or in a glass or ceramic matrix compound"*
- δ means the retest result

2.3. POLYBROMINATED BIPHENYLS (PBBs) AND POLYBROMINATED DIPHENYL ETHERS (PBDEs) CONTENT

Test Method: With reference to EN 62321-6:2015, extracted by toluene and analyzed by Gas Chromatography and Mass Spectrometry (GC-MS). [Reporting Limit: 5 mg/kg]

Test Item		Result [mg/kg]		RoHS Requirement [mg/kg]
		Sample 010+021+036	Sample 011+044	
PBBs	Monobromobiphenyl	< 5	< 5	Sum of PBBs 1000
	Dibromobiphenyl	< 5	< 5	
	Tribromobiphenyl	< 5	< 5	
	Tetrabromobiphenyl	< 5	< 5	
	Pentabromobiphenyl	< 5	< 5	
	Hexabromobiphenyl	< 5	< 5	
	Heptabromobiphenyl	< 5	< 5	
	Octabromobiphenyl	< 5	< 5	
	Nonabromobiphenyl	< 5	< 5	
	Decabromobiphenyl	< 5	< 5	
	Sum of PBBs	< 5	< 5	
PBDEs	Monobromodiphenyl Ether	< 5	< 5	Sum of PBDEs 1000
	Dibromodiphenyl Ether	< 5	< 5	
	Tribromodiphenyl Ether	< 5	< 5	
	Tetrabromodiphenyl Ether	< 5	< 5	
	Pentabromodiphenyl Ether	< 5	< 5	
	Hexabromodiphenyl Ether	< 5	< 5	
	Heptabromodiphenyl Ether	< 5	< 5	
	Octabromodiphenyl Ether	< 5	< 5	
	Nonabromodiphenyl Ether	< 5	< 5	
	Decabromodiphenyl Ether	< 5	< 5	
	Sum of PBDEs	< 5	< 5	

Note:

- "mg/kg" denotes miligram per kilogram
- "<" denotes less than

(Continued)

Test Item		Result [mg/kg]	RoHS Requirement [mg/kg]
		Sample 032	
PBBs	Monobromobiphenyl	< 5	Sum of PBBs 1000
	Dibromobiphenyl	< 5	
	Tribromobiphenyl	< 5	
	Tetrabromobiphenyl	< 5	
	Pentabromobiphenyl	< 5	
	Hexabromobiphenyl	< 5	
	Heptabromobiphenyl	< 5	
	Octabromobiphenyl	< 5	
	Nonabromobiphenyl	< 5	
	Decabromobiphenyl	< 5	
	Sum of PBBs	< 5	
PBDEs	Monobromodiphenyl Ether	< 5	Sum of PBDEs 1000
	Dibromodiphenyl Ether	< 5	
	Tribromodiphenyl Ether	< 5	
	Tetrabromodiphenyl Ether	< 5	
	Pentabromodiphenyl Ether	< 5	
	Hexabromodiphenyl Ether	< 5	
	Heptabromodiphenyl Ether	< 5	
	Octabromodiphenyl Ether	< 5	
	Nonabromodiphenyl Ether	< 5	
	Decabromodiphenyl Ether	< 5	
	Sum of PBDEs	< 5	

Note:

- "mg/kg" denotes miligram per kilogram
- "<" denotes less than

3. REMARK

The chemical testing was performed in TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch Chemical lab and the test results were reviewed at TÜV SÜD Certification and Testing (China) Co., Ltd. Guangzhou Branch.

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APPENDIX I: Summary of Limits and test standards

RoHS requirement according to directive 2011/65/EU and its amendment (EU) 2015/863:

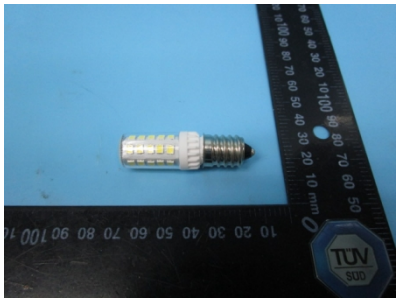
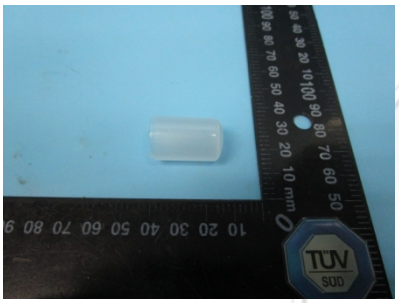
Restricted Substances	Limits
Cadmium (Cd)	0.01% (100 mg/kg)
Hexavalent Chromium (Cr6+)	0.1% (1000 mg/kg)
Mercury (Hg)	0.1% (1000 mg/kg)
Lead (Pb)	0.1% (1000 mg/kg)
Polybrominated Biphenyls (PBBs)	0.1% (1000 mg/kg)
Polybrominated Diphenyl Ethers (PBDEs)	0.1% (1000 mg/kg)
Phthalates (DEHP, BBP, DBP, DIBP)	0.1% (1000 mg/kg) each

Test Standards and Reporting limits:

Reference Standards	Testing Items	Analytical instrument	Reporting Limit
EN 62321-1:2013 (IEC 62321-1:2013)	Introduction and overview	---	---
EN IEC 62321-2:2021 (IEC 62321-2:2021)	Disassembly, disjointment and mechanical sample preparation	---	---
EN 62321-3-1: 2014 (IEC 62321-3-1: 2013)	Cadmium (Cd), total Chromium (Cr), Mercury (Hg), Lead (Pb), Bromine (Br)	Energy Dispersive X-ray Fluorescence Spectrometers (XRF)	---
EN 62321-4:2014 /A1:2017 (IEC 62321-4:2013/A1:2017)	Mercury (Hg)	Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)	10 mg/kg
EN 62321-5:2014 (IEC 62321-5:2013)	Cadmium (Cd)	Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)	2 mg/kg
	Total Chromium (Cr), Mercury (Hg), Lead (Pb)		10 mg/kg
EN 62321-6:2015 (IEC 62321-6:2015)	Polybrominated Biphenyls (PBBs), Polybrominated Diphenyl Ethers (PBDEs)	Gas Chromatography and Mass Spectrometry (GC-MS)	5 mg/kg
EN 62321-7-1: 2015 (IEC 62321-7-1:2015)	Hexavalent Chromium (Cr6+)	Ultraviolet–visible spectrophotometer (UV-Vis)	0.10 μg/cm^2
EN 62321-7-2: 2017 (IEC 62321-7-2:2017)	Hexavalent Chromium (Cr6+)		10 mg/kg
EN 62321-8:2017 (IEC 62321-8:2017)	Phthalates (DEHP, BBP, DBP, DIBP)	Gas Chromatography and Mass Spectrometry (GC-MS)	100 mg/kg

APPENDIX II:

Photos of submitted products

		
SPARAC-E14-6W-CE2-6	SPARAC-E14-3.5W-CE3-6	SPARAC-E14-3W-011-6
		/
SPARAC-E14-4W-CE2-N3	SPARAC-E14-3.5W-0S1-6	

APPENDIX III:

Model List provided by client：

Model List		
SPARAC-E14-2.5W-CE1-3 SPARAC-E14-2.5W-CE1-4 SPARAC-E14-2.5W-CE1-6	SPARAC-E14-5.5W-CE1-3 SPARAC-E14-5.5W-CE1-4 SPARAC-E14-5.5W-CE1-6	SPARAC-E14-2W-0S1-3 SPARAC-E14-2W-0S1-4 SPARAC-E14-2W-0S1-6
SPARAC-E14-3W-CE1-3 SPARAC-E14-3W-CE1-4 SPARAC-E14-3W-CE1-6	SPARAC-E14-5.5W-CE2-3 SPARAC-E14-5.5W-CE2-4 SPARAC-E14-5.5W-CE2-6	SPARAC-E14-2W-0S2-3 SPARAC-E14-2W-0S2-4 SPARAC-E14-2W-0S2-6
SPARAC-E14-3.5W-CE1-3 SPARAC-E14-3.5W-CE1-4 SPARAC-E14-3.5W-CE1-6	SPARAC-E14-6W-CE1-3 SPARAC-E14-6W-CE1-4 SPARAC-E14-6W-CE1-6	SPARAC-E14-2W-BX1-3 SPARAC-E14-2W-BX1-4 SPARAC-E14-2W-BX1-6
SPARAC-E14-3.5W-CE2-3 SPARAC-E14-3.5W-CE2-4 SPARAC-E14-3.5W-CE2-6	SPARAC-E14-6W-CE2-3 SPARAC-E14-6W-CE2-4 SPARAC-E14-6W-CE2-6	SPARAC-E14-2.5W-0S1-3 SPARAC-E14-2.5W-0S1-4 SPARAC-E14-2.5W-0S1-6
SPARAC-E14-3.5W-CE3-3 SPARAC-E14-3.5W-CE3-4 SPARAC-E14-3.5W-CE3-6	SPARAC-E14-6W-CE3-3 SPARAC-E14-6W-CE3-4 SPARAC-E14-6W-CE3-6	SPARAC-E14-2.5W-0S2-3 SPARAC-E14-2.5W-0S2-4 SPARAC-E14-2.5W-0S2-6
SPARAC-E14-4W-CE1-3 SPARAC-E14-4W-CE1-4 SPARAC-E14-4W-CE1-6	SPARAC-E14-7W-CE1-3 SPARAC-E14-7W-CE1-4 SPARAC-E14-7W-CE1-6	SPARAC-E14-2.5W-BX1-3 SPARAC-E14-2.5W-BX1-4 SPARAC-E14-2.5W-BX1-6
SPARAC-E14-4W-CE2-3 SPARAC-E14-4W-CE2-4 SPARAC-E14-4W-CE2-6	SPARAC-E14-7W-CE2-3 SPARAC-E14-7W-CE2-4 SPARAC-E14-7W-CE2-6	SPARAC-E14-2.5W-011-3 SPARAC-E14-2.5W-011-4 SPARAC-E14-2.5W-011-6
SPARAC-E14-4W-CE2-N3 SPARAC-E14-4W-CE2-N4 SPARAC-E14-4W-CE2-N6	SPARAC-E14-7.5W-CE2-3 SPARAC-E14-7.5W-CE2-4 SPARAC-E14-7.5W-CE2-6	SPARAC-E14-3W-HL2-3 SPARAC-E14-3W-HL2-4 SPARAC-E14-3W-HL2-6
SPARAC-E14-4.5W-CE1-3 SPARAC-E14-4.5W-CE1-4 SPARAC-E14-4.5W-CE1-6	SPARAC-E14-8W-CE1-3 SPARAC-E14-8W-CE1-4 SPARAC-E14-8W-CE1-6	SPARAC-E14-3W-BX1-3 SPARAC-E14-3W-BX1-4 SPARAC-E14-3W-BX1-6
SPARAC-E14-4.5W-CE2-3 SPARAC-E14-4.5W-CE2-4 SPARAC-E14-4.5W-CE2-6	SPARAC-E14-8W-CE2-3 SPARAC-E14-8W-CE2-4 SPARAC-E14-8W-CE2-6	SPARAC-E14-3W-011-3 SPARAC-E14-3W-011-4 SPARAC-E14-3W-011-6

SPARAC-E14-4.8W-CE1-3 SPARAC-E14-4.8W-CE1-4 SPARAC-E14-4.8W-CE1-6	SPARAC-E14-8W-Y01-3 SPARAC-E14-8W-Y01-4 SPARAC-E14-8W-Y01-6	SPARAC-E14-3.5W-0S1-3 SPARAC-E14-3.5W-0S1-4 SPARAC-E14-3.5W-0S1-6
SPARAC-E14-4.8W-CE2-3 SPARAC-E14-4.8W-CE2-4 SPARAC-E14-4.8W-CE2-6	SPARAC-E14-4W-TGE1-3 SPARAC-E14-4W-TGE1-4 SPARAC-E14-4W-TGE1-6	SPARAC-E14-3.5W-BX1-3 SPARAC-E14-3.5W-BX1-4 SPARAC-E14-3.5W-BX1-6
SPARAC-E14-4.8W-CE3-3 SPARAC-E14-4.8W-CE3-4 SPARAC-E14-4.8W-CE3-6	SPARAC-E14-5W-TGE1-3 SPARAC-E14-5W-TGE1-4 SPARAC-E14-5W-TGE1-6	SPARAC-E14-3.5W-011-3 SPARAC-E14-3.5W-011-4 SPARAC-E14-3.5W-011-6
SPARAC-E14-4.9W-CE2-3 SPARAC-E14-4.9W-CE2-4 SPARAC-E14-4.9W-CE2-6	SPARAC-E14-6W-TGE1-3 SPARAC-E14-6W-TGE1-4 SPARAC-E14-6W-TGE1-6	SPARAC-E14-4W-HL2-3 SPARAC-E14-4W-HL2-4 SPARAC-E14-4W-HL2-6
SPARAC-E14-5W-CE1-3 SPARAC-E14-5W-CE1-4 SPARAC-E14-5W-CE1-6	SPARAC-E14-7W-TGE1-3 SPARAC-E14-7W-TGE1-4 SPARAC-E14-7W-TGE1-6	SPARAC-E14-8W-CE3-3 SPARAC-E14-8W-CE3-4 SPARAC-E14-8W-CE3-6
SPARAC-G9-9W-CE1-3 SPARAC-G9-9W-CE1-4 SPARAC-G9-9W-CE1-6	SPARAC-G9-9W-CE2-3 SPARAC-G9-9W-CE2-4 SPARAC-G9-9W-CE2-6	

---------End of Report---------