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检测
TESTING
CNAS L0462

Report No.	HL03-T-202201099
Contract No.	HL0422-0337
Total Page	17

TEST REPORT

Sample Guitar Equalizer

Type /

Manufacturer Shandong Sunsmile Musical Instrument Inc.

Client Shandong Sunsmile Musical Instrument Inc.

Tested by 梁浩么

Supervised by 邓天峰

Approved by 孙秀敏 Senior Engineer

Approve Date 2022.6.28

CEPREI

CHINA CEPREI LABORATORY

中国赛宝实验室
证书报告专用章
(14)

Report Description

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    "/"or "N/A", not available.
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CHINA CEPREI LABORATORY

Testing Center for Pollution Control of Electronic Information Products of Information Industry

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Test Report

Client:	Shandong Sunsmile Musical Instrument Inc. Address: No.32 Xinghua East Road, Liaocheng City, Shandong Province, China
Date of Sample Received:	Jun.09, 2022
Test Date:	Jun.14, 2022~ Jun.23, 2022
Test Site:	No.78, West of Zhucun Road, Zhucun Street, Zengcheng District, Guangzhou, Guangdong Province, China
Sample Name:	Guitar Equalizer
Test Item:	Detailed in Table 2~ Table 3
Test Method:	Detailed in Table 2~ Table 3
Test Ambient:	Temperature: 15℃~30℃ Relative Humidity: 40%RH ~85%RH
Test Instrument:	X-ray Fluorescence Spectrometer (XRF), Electronic Balance, Uv-visible spectrophotometer(UV-Vis), Gas Chromatograph-mass Spectrometer System (GC-MS)
Test Result:	Detailed in Table 5~ Table 7

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1. Sample Information

Table 1 Sample Information

No.	Sample Name	Type	Quantity	Photo
1	Guitar Equalizer	/	2	Fig.1, Fig.2 Fig.1.1~Fig.2.1

Note, the sample information was supplied by the client who is responsible for authenticity.

Fig.1 Received sample

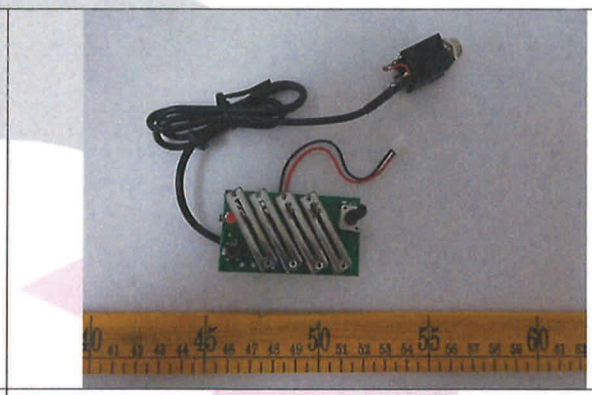

Fig.2 Received sample

Fig.1.1 1-1~1-55

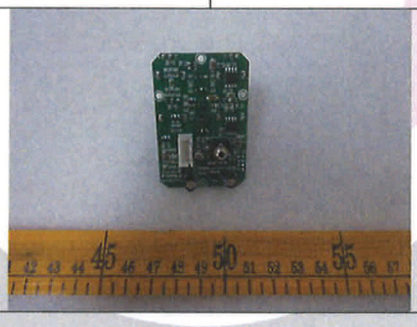

Fig.1.2 1-56~1-71

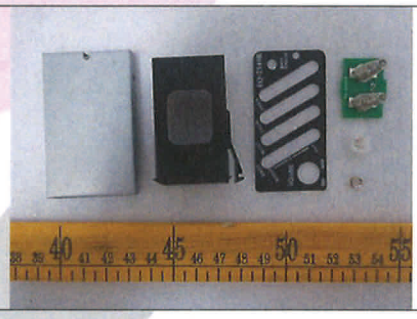

Fig.2.1 2-1~2-7

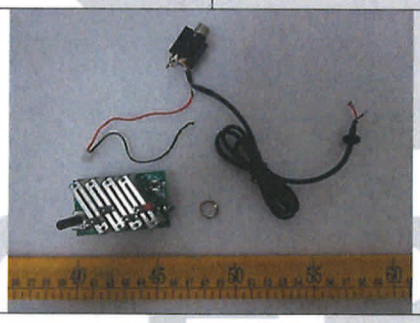

Fig.2.2 2-8~2-38

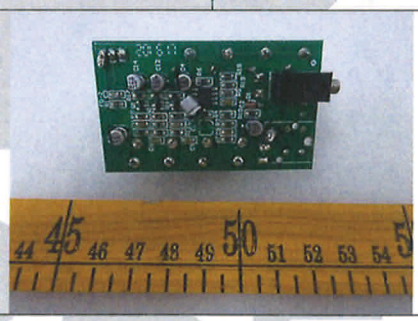

Fig.2.3 2-39~2-53

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2. Test Method and Technical Requirement

Table 2 Screening Limits in mg/kg for Regulated Elements in Carious Matrices

Element	Polymers	Metals	Composite material
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

Remark: 1. σ remarks standard deviation of determination result.

2. BL: Blow limit; X: Inconclusive; OL: Over limit.

Table 3 Test Method and Technical Requirement

Serial No.	Test Item	Test Method	RoHS Limits (mg/kg)	LOQ (mg/kg)	Instrument
1	Lead (Pb)	IEC 62321-3-1:2013	/	20	XRF
		IEC 62321-5:2013	1000	10	ICP-OES
2	Cadmium (Cd)	IEC 62321-3-1:2013	/	20	XRF
		IEC 62321-5:2013	100	10	ICP-OES
3	Mercury (Hg)	IEC 62321-3-1:2013	/	20	XRF
		IEC 62321-4:2013/AMD1:2017	1000	10	ICP-OES
4	Hexavalent Chromium[Cr(VI)]	IEC 62321-3-1:2013	/	20	XRF
		IEC 62321-7-2:2017	1000	8	UV-Vis
		IEC 62321-7-1:2015	Negative	0.10μg/cm^2	UV-Vis
5	Polybrominated biphenyls (PBBs)	IEC 62321-3-1:2013	/	20	XRF
		IEC 62321-6:2015	1000	10	GC-MS
6	Polybrominated Diphenyl Ethers (PBDEs)	IEC 62321-3-1:2013	/	20	XRF
		IEC 62321-6:2015	1000	10	GC-MS
7	Diisobutyl phthalate (DIBP)	IEC 62321-8:2017	1000	150	GC-MS
8	Di(2-ethylhexyl) phthalate (DEHP)	IEC 62321-8:2017	1000	150	GC-MS
9	Benzyl Butyl Phthalate (BBP)	IEC 62321-8:2017	1000	150	GC-MS
10	Dibutyl Phthalate (DBP)	IEC 62321-8:2017	1000	150	GC-MS

Note: According to the client's requirement, the limits refer to RoHS directive 2011/65/EU and amending directive (EU) 2015/863.

3. Sample Disassembling List

Table 4 Sample Disassembling List

Serial No.	Components		Test Unit		Note
	No.	Sample Name	Unit No.	Unit Description	
1	1	Guitar Equalizer	1-1	Silver grey metal	N/A
2			1-2	Black plastic shell with silvery-white printing	Mixed test
3			1-3	White plastic sheet	N/A
4			1-4	Black EVA	N/A
5			1-5	Pink soft plastic strip	N/A
6			1-6	Black soft plastic	N/A
7			1-7	Screen-transparent black plastic sheet	N/A
8			1-8	transparent glass	N/A
9			1-9	Transparent plastic sheet	N/A
10			1-10	Red wire cover (fine)	N/A
11			1-11	Black wire cover (fine)	N/A
12			1-12	Green wire cover (fine)	N/A
13			1-13	YA-silver metal body	N/A
14			1-14	YA-metal pins	N/A
15			1-15	C22-black plastic	N/A
16			1-16	C22-metal pins	N/A
17			1-17	R102-black ontology	N/A
18			1-18	C101-grey-white ontology	N/A
19			1-19	C103-brown ontology	N/A
20			1-20	U101-black glue	N/A
21			1-21	Welding layer	N/A
22			1-22	Resin substrate	N/A
23			1-23	Circuit board (middle)-solder	N/A
24			1-24	Platooninsert-white plastic	N/A
25			1-25	Platooninsert-silver metal	N/A
26			1-26	Black hot shrink pipe	N/A
27			1-27	Solder on transparent plastic sheet	N/A
28			1-28	White wire cover (middle)	N/A
29			1-29	Yellow wire cover (middle)	N/A
30			1-30	Red wire cover (middle)	N/A
31			1-31	Black wire cover (middle)	N/A
32			1-32	Black plastic wire cover	N/A

Table 4 Sample Disassembling List (Continued)

Serial No.	Components		Test Unit		Note
	No.	Sample Name	Unit No.	Unit Description	
33	1	Guitar Equalizer	1-33	Metal wire core	N/A
34			1-34	Silver metal nut	N/A
35			1-35	Silver metal hole	N/A
36			1-36	Blue plastic	N/A
37			1-37	Silver metal sheet	N/A
38			1-38	Silver metal spring	N/A
39			1-39	Circuit board with spring-solder	N/A
40			1-40	Copper foil	N/A
41			1-41	Circuit board (small)-solder	N/A
42			1-42	Black wire cover (thick)	N/A
43			1-43	Red wire cover (thick)	N/A
44			1-44	BASS-black plastic	N/A
45			1-45	BASS-silver white metal	N/A
46			1-46	BASS-bright silver metal	N/A
47			1-47	PHASE-black plastic	N/A
48			1-48	PHASE-blue plastic	N/A
49			1-49	PHASE-white plastic	N/A
50			1-50	PHASE-silver metal spring	N/A
51			1-51	POW-black plastic	N/A
52			1-52	POW-White plastic	N/A
53			1-53	POW-snow-white plastic	N/A
54			1-54	POW-metal needle	N/A
55			1-55	D401-transparent red plastic	N/A
56			1-56	Electrolytic capacitor-black plastic cover	Mixed test
57			1-57	Electrolysis capacitance-aluminum shell	N/A
58			1-58	Electrolytic capacitance-aluminum foil	N/A
59			1-59	Electrolytic capacitor-electrolysis paper	N/A
60			1-60	Electrolytic capacitance-glue pad	N/A
61			1-61	Connector-white plastic	N/A
62			1-62	Connector-metal pin	N/A
63			1-63	Electrolytic capacitance-black plastic base	N/A
64			1-64	Patch resistance-black body	N/A
65			1-65	Glass diode-orange body	N/A

Table 4 Sample Disassembling List(Continued)

Serial No.	Components		Test Unit		Note
	No.	Sample Name	Unit No.	Unit Description	
66	1	Guitar Equalizer	1-66	IC-black ontology	N/A
67			1-67	Patch triode-black body	N/A
68			1-68	Patch capacitor-brown body	N/A
69			1-69	Patch resistance-dark black body	N/A
70			1-70	Patch capacitor-grey-white body	N/A
71			1-71	Circuit board (big)-solder	N/A
72	2	Guitar Equalizer	2-1	Silver grey metal shell	N/A
73			2-2	Black plastic shell	N/A
74			2-3	Black plastic sheet with white printing and glue	Mixed test
75			2-4	Connector-white plastic	N/A
76			2-5	Connector-metal pin	N/A
77			2-6	Silver metal screw ring	N/A
78			2-7	Silver metal spring	N/A
79			2-8	Silver metal nut	N/A
80			2-9	platooninsert-white plastic	N/A
81			2-10	Disrow-silver metal	N/A
82			2-11	Black wire cover (thick)	N/A
83			2-12	Red wire cover(thick)	N/A
84			2-13	Metal wire core	N/A
85			2-14	Silver metal screw hole	N/A
86			2-15	Black plastic	N/A
87			2-16	Silver sheet metal	N/A
88			2-17	Solder on metal sheet	N/A
89			2-18	White wire cover (fine)	N/A
90			2-19	Red wire cover (fine)	N/A
91			2-20	Black plastic wire cover	N/A
92			2-21	Black soft plastic ring	N/A
93			2-22	Light silver metal pin	N/A
94			2-23	Black hot shrink pipe	N/A
95			2-24	Switch (small)-black plastic	N/A
96			2-25	Switch (small)-silver metal	N/A
97			2-26	LED-transparent red plastic	N/A
98			2-27	LED-metal pin	N/A

Table 4 Sample Disassembling List(Continued)

Serial No.	Components		Test Unit		Note
	No.	Sample Name	Unit No.	Unit Description	
99	2	Guitar Equalizer	2-28	Switch (middle)-black plastic	N/A
100			2-29	Switch (middle)-silver white metal	N/A
101			2-30	Switch (middle)-bright silver metal	N/A
102			2-31	Switch (big)-silver metal case	N/A
103			2-32	Switch (big)-black plastic	N/A
104			2-33	Switch (big)-silver metal sheet	N/A
105			2-34	Switch (big)-white glass fiber plate	N/A
106			2-35	Switch (big)-silver metal spring	N/A
107			2-36	Switch (big)-silver metal bead	N/A
108			2-37	Plug port-black plastic	N/A
109			2-38	Plug Port-silver metal hole	N/A
110			2-39	Plug Port-silver metal Pieces	N/A
111			2-40	C7-black plastic base	N/A
112			2-41	C7-aluminum shell	N/A
113			2-42	C7-aluminum foil	N/A
114			2-43	C7-electrolytic paper	N/A
115			2-44	C6-brown ontology	N/A
116			2-45	R14-black ontology	N/A
117			2-46	C3-grey-white ontology	N/A
118			2-47	Q1-black ontology	N/A
119			2-48	IC-black ontology	N/A
120			2-49	D1-orange ontology	N/A
121			2-50	Welding layer	N/A
122			2-51	Resin substrate	N/A
123			2-52	Copper foil	N/A
124			2-53	Solder	N/A

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4. Test Result

Table 5 XRF Screening Test Result of Pb, Cd, Hg, Cr and Br

Test Unit No.	XRF Screening Test Result, mg/kg										Note
	Pb	Judge	Cd	Judge	Hg	Judge	Total Cr	Judge	Total Br	Judge	
1-1	ND	BL	ND	BL	ND	BL	240	BL	N/A	N/A	N/A
1-2	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-3	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-4	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-5	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-6	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-7	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-8	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-9	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-10	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-11	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-12	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-13	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-14	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-15	ND	BL	ND	BL	ND	BL	ND	BL	51604	X	N/A
1-16	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-17	322	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-18	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-19	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-20	ND	BL	ND	BL	ND	BL	ND	BL	2962	X	N/A
1-21	ND	BL	ND	BL	ND	BL	ND	BL	94558	X	N/A
1-22	ND	BL	ND	BL	ND	BL	ND	BL	20651	X	N/A
1-23	ND	OL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-24	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-25	ND	BL	ND	BL	ND	BL	110	BL	N/A	N/A	N/A
1-26	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-27	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-28	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-29	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-30	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-31	ND	BL	ND	BL	ND	BL	ND	BL	889	X	N/A
1-32	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-33	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-34	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-35	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-36	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-37	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-38	ND	BL	ND	BL	ND	BL	188	BL	N/A	N/A	N/A
1-39	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-40	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A

Table 5 XRF Screening Test Result of Pb, Cd, Hg, Cr and Br(Continued)

Test Unit No.	XRF Screening Test Result, mg/kg										Note
	Pb	Judge	Cd	Judge	Hg	Judge	Total Cr	Judge	Total Br	Judge	
1-41	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-42	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-43	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-44	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-45	66	BL	ND	BL	ND	BL	76	BL	N/A	N/A	N/A
1-46	ND	BL	ND	BL	ND	BL	134	BL	N/A	N/A	N/A
1-47	ND	BL	ND	BL	ND	BL	ND	BL	31789	X	N/A
1-48	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-49	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-50	ND	BL	ND	BL	ND	BL	312	BL	N/A	N/A	N/A
1-51	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-52	ND	BL	ND	BL	ND	BL	ND	BL	1187	X	N/A
1-53	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-54	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-55	ND	BL	ND	BL	ND	BL	ND	BL	2292	X	N/A
1-56	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-57	ND	BL	ND	BL	ND	BL	117	BL	N/A	N/A	N/A
1-58	ND	BL	ND	BL	ND	BL	254	BL	N/A	N/A	N/A
1-59	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-60	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-61	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-62	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-63	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-64	256	BL	ND	BL	ND	BL	39171	X	ND	BL	N/A
1-65	851697	OL*2	ND	BL	ND	BL	ND	BL	N/A	N/A	See NOTE
1-66	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-67	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
1-68	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-69	ND	BL	ND	BL	ND	BL	16556	X	ND	BL	N/A
1-70	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
1-71	ND	OL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-1	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-2	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-3	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-4	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-5	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-6	16892	OL*1	ND	BL	ND	BL	ND	BL	N/A	N/A	See NOTE
2-7	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-8	13363	OL*1	ND	BL	ND	BL	ND	BL	N/A	N/A	See NOTE
2-9	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-10	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-11	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A

Table 5 XRF Screening Test Result of Pb, Cd, Hg, Cr and Br(Continued)

Test Unit No.	XRF Screening Test Result, mg/kg										Note
	Pb	Judge	Cd	Judge	Hg	Judge	Total Cr	Judge	Total Br	Judge	
2-12	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-13	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-14	23722	OL*1	ND	BL	ND	BL	ND	BL	N/A	N/A	See NOTE
2-15	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-16	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-17	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-18	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-19	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-20	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-21	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-22	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-23	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-24	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-25	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-26	ND	BL	ND	BL	ND	BL	ND	BL	725	X	N/A
2-27	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-28	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-29	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-30	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-31	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-32	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-33	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-34	ND	BL	ND	BL	ND	BL	ND	BL	15420	X	N/A
2-35	ND	BL	ND	BL	ND	BL	177022	X	N/A	N/A	N/A
2-36	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-37	ND	BL	ND	BL	ND	BL	ND	BL	10388	X	N/A
2-38	20938	OL*1	ND	BL	ND	BL	ND	BL	N/A	N/A	See NOTE
2-39	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-40	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-41	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-42	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-43	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-44	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-45	452	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-46	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A
2-47	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-48	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-49	531917	OL*2	ND	BL	ND	BL	ND	BL	N/A	N/A	See NOTE
2-50	ND	BL	ND	BL	ND	BL	ND	BL	ND	BL	N/A
2-51	ND	BL	ND	BL	ND	BL	ND	BL	342	X	N/A
2-52	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A

Table 5 XRF Screening Test Result of Pb, Cd, Hg, Cr and Br(Continued)

Test Unit No.	XRF Screening Test Result, mg/kg										Note
	Pb	Judge	Cd	Judge	Hg	Judge	Total Cr	Judge	Total Br	Judge	
2-53	ND	BL	ND	BL	ND	BL	ND	BL	N/A	N/A	N/A

1) The material has not been tested by XRF or the sample with XRF screening result of "X", needs to complete chemical confirmatory analysis. The determination results are shown in the results of chemical confirmatory analysis.

2) XRF screening limit of quantification, mg/kg.

Test item / Material type	Pb	Cd	Hg	Total Cr	Total Br
Polymers	20	20	20	20	20
Composite Material 1	20	20	20	20	20
Composite Material 2	20	20	20	20	N/A
Metals	20	20	20	20	N/A

3)NOTE:

"$*^1$" remarks according RoHS directive 2011/65/EU annex III exemption regulations, arcitle 6(c), Copper alloy containing up to 4 % lead by weight.

"$*^2$" remarks according RoHS directive 2011/65/EU annex III exemption regulations, arcitle 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.

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Table 6 Chemical Test Results of Pb, Cd, Hg, Cr(VI), PBBs and PBDEs

Test Unit No.	Chemical Test Result, mg/kg						Conclusion	Note
	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs		
LOQ (mg/kg)	10	10	10	8/ 0.10μg/cm²	10	10	N/A	N/A
1-64	/	/	/	ND	/	/	P	N/A
1-69	/	/	/	ND	/	/	P	N/A
2-35	/	/	/	Negative, ND	/	/	P	N/A
1-15	/	/	/	/	ND	ND	P	N/A
1-20	/	/	/	/	ND	ND	P	N/A
1-21	/	/	/	/	ND	ND	P	N/A
1-22	/	/	/	/	ND	ND	P	N/A
1-31	/	/	/	/	ND	ND	P	N/A
1-47	/	/	/	/	ND	ND	P	N/A
1-52	/	/	/	/	ND	ND	P	N/A
1-55	/	/	/	/	ND	ND	P	N/A
2-26	/	/	/	/	ND	ND	P	N/A
2-34	/	/	/	/	ND	ND	P	N/A
2-37	/	/	/	/	ND	ND	P	N/A
2-51	/	/	/	/	ND	ND	P	N/A

NOTE:

(1) P = Pass: The test results were below the limit.
(2) F = Fail: The test results were above the limit.

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Table 7 Chemical Test Results of Phthalates

Serial No.	Test Unit No.	Sample Description	Result (mg/kg)					
			DEHP	BBP	DBP	DIBP	Conclusion	Note
1	1-2	Black plastic shell with silvery-white printing	ND	ND	ND	ND	P	N/A
2	1-3	White plastic sheet	ND	ND	ND	ND	P	N/A
3	1-4	Black EVA	ND	ND	ND	ND	P	N/A
4	1-5	Pink soft plastic strip	ND	ND	ND	ND	P	N/A
5	1-6	Black soft plastic	ND	ND	ND	ND	P	N/A
6	1-7	Screen-transparent black plastic sheet	ND	ND	ND	ND	P	N/A
7	1-9	Transparent plastic sheet	ND	ND	ND	ND	P	N/A
8	1-10	Red wire cover (fine)	ND	ND	ND	ND	P	N/A
9	1-11	Black wire cover (fine)	ND	ND	ND	ND	P	N/A
10	1-12	Green wire cover (fine)	ND	ND	ND	ND	P	N/A
11	1-15	C22-black plastic	ND	ND	ND	ND	P	N/A
12	1-17	R102-black ontology	ND	ND	ND	ND	P	N/A
13	1-20	U101-black glue	ND	ND	ND	ND	P	N/A
14	1-21	Welding layer	ND	ND	ND	ND	P	N/A
15	1-22	Resin substrate	ND	ND	ND	ND	P	N/A
16	1-24	Platooninsert-white plastic	ND	ND	ND	ND	P	N/A
17	1-26	Black hot shrink pipe	ND	ND	ND	ND	P	N/A
18	1-28	White wire cover (middle)	ND	ND	ND	ND	P	N/A
19	1-29	Yellow wire cover (middle)	ND	ND	ND	ND	P	N/A
20	1-30	Red wire cover (middle)	ND	ND	ND	ND	P	N/A
21	1-31	Black wire cover (middle)	ND	ND	ND	ND	P	N/A
22	1-32	Black plastic wire cover	ND	ND	ND	ND	P	N/A
23	1-36	Blue plastic	ND	ND	ND	ND	P	N/A
24	1-42	Black wire cover (thick)	ND	ND	ND	ND	P	N/A
25	1-43	Red wire cover (thick)	ND	ND	ND	ND	P	N/A
26	1-44	BASS-black plastic	ND	ND	ND	ND	P	N/A
27	1-47	PHASE-black plastic	ND	ND	ND	ND	P	N/A
28	1-48	PHASE-blue plastic	ND	ND	ND	ND	P	N/A
29	1-49	PHASE-white plastic	ND	ND	ND	ND	P	N/A
30	1-51	POW-black plastic	ND	ND	ND	ND	P	N/A
31	1-52	POW-White plastic	ND	ND	ND	ND	P	N/A
32	1-53	POW-snow-white plastic	ND	ND	ND	ND	P	N/A

Table 7 Chemical Test Results of Phthalates(Continued)

Serial No.	Test Unit No.	Sample Description	Result (mg/kg)					
			DEHP	BBP	DBP	DIBP	Conclusion	Note
33	1-55	D401-transparent red plastic	ND	ND	ND	ND	P	N/A
34	1-56	Electrolytic capacitor-black plastic cover	ND	ND	ND	ND	P	N/A
35	1-59	Electrolytic capacitor-electrolysis paper	ND	ND	ND	ND	P	N/A
36	1-60	Electrolytic capacitance-glue pad	ND	ND	ND	ND	P	N/A
37	1-61	Connector-white plastic	ND	ND	ND	ND	P	N/A
38	1-63	Electrolytic capacitance-black plastic base	ND	ND	ND	ND	P	N/A
39	1-64	Patch resistance-black body	ND	ND	ND	ND	P	N/A
40	1-66	IC-black ontology	ND	ND	ND	ND	P	N/A
41	1-67	Patch triode-black body	ND	ND	ND	ND	P	N/A
42	1-69	Patch resistance-dark black body	ND	ND	ND	ND	P	N/A
43	2-2	Black plastic shell	ND	ND	ND	ND	P	N/A
44	2-3	Black plastic sheet with white printing and glue	ND	ND	ND	ND	P	N/A
45	2-4	Connector-white plastic	ND	ND	ND	ND	P	N/A
46	2-9	Platooninsert-white plastic	ND	ND	ND	ND	P	N/A
47	2-11	Black wire cover (thick)	ND	ND	ND	ND	P	N/A
48	2-12	Red wire cover(thick)	ND	ND	ND	ND	P	N/A
49	2-15	Black plastic	ND	ND	ND	ND	P	N/A
50	2-18	White wire cover (fine)	ND	2080	ND	ND	F	N/A
51	2-19	Red wire cover (fine)	ND	4005	ND	ND	F	N/A
52	2-20	Black plastic wire cover	ND	ND	ND	ND	P	N/A
53	2-21	Black soft plastic ring	ND	ND	ND	ND	P	N/A
54	2-23	Black hot shrink pipe	ND	ND	ND	ND	P	N/A
55	2-24	Switch (small)-black plastic	ND	ND	ND	ND	P	N/A
56	2-26	LED-transparent red plastic	ND	ND	ND	ND	P	N/A
57	2-28	Switch (middle)-black plastic	ND	ND	ND	ND	P	N/A
58	2-32	Switch (big)-black plastic	ND	ND	ND	ND	P	N/A
59	2-34	Switch (big)-white glass fiber plate	ND	ND	ND	ND	P	N/A
60	2-37	Plug port-black plastic	ND	ND	ND	ND	P	N/A
61	2-40	C7-black plastic base	ND	ND	ND	ND	P	N/A
62	2-43	C7-electrolytic paper	ND	ND	ND	ND	P	N/A

Table 7 Chemical Test Results of Phthalates(Continued)

Serial No.	Test Unit No.	Sample Description	Result (mg/kg)					
			DEHP	BBP	DBP	DIBP	Conclusion	Note
63	2-45	R14-black ontology	ND	ND	ND	ND	P	N/A
64	2-47	Q1-black ontology	ND	ND	ND	ND	P	N/A
65	2-48	IC-black ontology	ND	ND	ND	ND	P	N/A
66	2-50	Welding layer	ND	ND	ND	ND	P	N/A
67	2-51	Resin substrate	ND	ND	ND	ND	P	N/A

NOTE:
(1) P = Pass: The test results were below the limit.
(2) F = Fail: The test results were above the limit.
(3) The specified location was possible to be affected by certain material, the test results are for reference only.

————————Report End————————