



中国检验认证集团深圳有限公司

CHINA CERTIFICATION & INSPECTION GROUP SHENZHEN CO., LTD.

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邮编 (P. C.): 518026

ORIGINAL

证书号码 (No.): QHJ1812017102R1/EN

日期 (Date): 2019-03-15

SHENZHEN EVERBEST MACHINERY INDUSTRY CO., LTD

19th Building, 5th Region, Baiwangxin Industry Park, Songbai road, Baimang, XiLi, Nanshan, Shenzhen, China

Test Report

SAMPLE NAME : INFRARED THERMOMETER
SAMPLE MODEL : Please refer to next page.
SAMPLE BRAND : CEM
MANUFACTURER : SHENZHEN EVERBEST MACHINERY INDUSTRY CO., LTD
ADDRESS : 19th Building, 5th Region, Baiwangxin Industry Park, Songbai road, Baimang, XiLi, Nanshan, Shenzhen, China P.C. 518108
RECEIVED DATE : December 27, 2018
TESTING PERIOD : December 27, 2018 ~ January 22, 2019
TEST REQUESTED : As specified by client, with reference to RoHS Directive 2011/65/EU and (EU) 2015/863 to determine the Lead(Pb), Cadmium(Cd), Mercury(Hg), Hexavalent Chromium(Cr(VI)), Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), Dibutyl Phthalate (DBP), Benzyl butyl phthalate(BBP), Bis-(2-ethyl hexyl)-phthalate(DEHP) and Diisobutyl phthalate(DIBP) content in the submitted sample.
TEST METHOD : Please refer to next page(s).
TEST RESULTS : Please refer to next page(s).
CONCLUSION : Based on the performed tests on submitted sample(s), the results of the selected components Comply with the RoHS Directive 2011/65/EU and (EU) 2015/863.

Remark: This report has replaced the test report QHJ1812017102/EN, and the original test report (Report No.: QHJ1812017102/EN) is invalid.

Completed by:

Tudi Yang

Tudi.Yang

Reviewed by:

Andy Zhou

Andy.Zhou

Approved by:

Renyou Yang

Lab Manager Renyou.yang



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1. Sample Model(s):

DT-882, DT-835, DT-836, DT-830, DT-833, DT-839MAX+, DT-838MAX+, DT-837MAX+, DT-8875, DT-8876, DT-9860, DT-9860S, DT-9861, DT-9861S, DT-9862, DT-9862S, DT-9863, DT-9865, DT-860, DT-861, DT-862DT-8878, DT-8879, DT-8889, DT-8889H, DT-8867H, DT-8868, DT-8869, DT-8868H, DT-8869H, DT-8870, DT-8870BDT-8871, DT-8872, DT-8873, DT-8862B, DT-8863B, DT-8860L, DT-8860B, DT-8861B, DT-8861, DT-8862, DT-8862MAX+, DT-8863, DT-8865, DT-810, DT-810B, DT-811, DT-812, DT-813TS, DT-820, DT-820B, DT-821, DT-822, DT-880, DT-880H, DT-882, DT-882H, DT-883, DT-883H, DT-8801, DT-8802, DT-8822, DT-8823, DT-8823TS, DT-8866, DT-8866TS, DT-8662, DT-8663, DT-8666, DT-8666H, DT-8665, DT-8838, DT-8839, DT-8858, DT-8859, DT-8859H, DT-8818H, DT-8818, DT-8819H, DT-8819, DT-8826H, DT-8828H, DT-8828, DT-8829, DT-8855, DT-8856, DT-8830, DT-8831, DT-8832, DT-8833, DT-8833H, DT-8835, DT-8835TS, DT-8810, DT-8810H, DT-8811, DT-8811H, DT-8812, DT-8812H, DT-8833D, DT-8863H, DT-8856L, IR-65, IR-65B, IR-67, IR-67B, IR-66, IR-66B, IR-77H, IR-88, IR-88G, IR-88H, IR-86, IR-87, IR-2G, IR-98, IR-99, IR-15, AC-8T, IR-68, DT-9868, DT-9869, DT-9870, DT-9870B, DT-9870H, DT-867, DT-867B, DT-8870V, DT-8833B

2. Test Method (s):

As requested by the client, Reference to IEC 62321-3-1-2013 (Ed1.0) Procedures for the screening analysis of Lead (Pb), Cadmium (Cd), Mercury (Hg), total Chromium (Cr), and Bromine (Br) by XRF. If the screening analysis results exceed the screening limits of IEC 62321-3-1-2013 (Ed1.0) Annex A, use the chemical methods for testing.

Table1 IEC 62321-3-1-2013 (Ed1.0) Annex A screening limits of XRF (mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	Not applicable	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

BL = Less than screening limits of XRF

OL = More than screening limits of XRF

X = The results of screening analysis by XRF are within this range, requiring further chemical testing.

LOD = Limit of Detection



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Table2 testing methods & Equipments

Testing Item	Testing Method	Equipment	Equipment No.	Cal Date	Due Date
Screening analysis by XRF					
Lead(Pb) Cadmium(Cd) Mercury(Hg) Chromium(Cr) Bromine(Br)	IEC 62321-3-1-2013 (Ed1.0)	ED-XRF	YQ-201	2018/9/3	2019/9/2
Chemical testing					
Lead (Pb)	IEC 62321-5-2013 (Ed1.0)	ICP-OES	YQ-174	2017/9/4	2019/9/3
Cadmium (Cd)	IEC 62321-5-2013 (Ed1.0)	ICP-OES	YQ-174	2017/9/4	2019/9/3
Mercury (Hg)	IEC 62321-4-2013 +A1:2017	ICP-OES	YQ-174	2017/9/4	2019/9/3
Hexavalent chromium (Cr(VI)) for plastic	IEC 62321-7-2-2017 (Ed1.0)	UV-VIS	YQ-177	2018/8/6	2019/8/5
Hexavalent chromium (Cr(VI)) for coating on metals	IEC 62321-7-1-2015 (Ed1.0)	UV-VIS	YQ-177	2018/8/6	2019/8/5
PBBs	IEC 62321-6-2015 (Ed1.0)	GC-MS	YQ-211	2017/9/4	2019/9/3
PBDEs	IEC 62321-6-2015 (Ed1.0)	GC-MS	YQ-211	2017/9/4	2019/9/3
DBP	IEC 62321-8-2017 (Ed1.0)	GC-MS	YQ-211	2017/9/4	2019/9/3
BBP	IEC 62321-8-2017 (Ed1.0)	GC-MS	YQ-211	2017/9/4	2019/9/3
DEHP	IEC 62321-8-2017 (Ed1.0)	GC-MS	YQ-211	2017/9/4	2019/9/3
DIBP	IEC 62321-8-2017 (Ed1.0)	GC-MS	YQ-211	2017/9/4	2019/9/3





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3. Test Result(s):

No.	Part No.	Part Description	Restricted Substances	Results (mg/kg)		Comment on RoHS	Resubmitted Date/ Source of Data
				XRF	Chemical Testing		
1	1	Black plastic	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
2	2	Blue plastic	DIBP	NA	ND	PASS	\
			Cd	BL	\	PASS	
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
3	3	Red plastic	DBP	NA	ND	PASS	\
			DIBP	NA	ND	PASS	
			Cd	BL	\	PASS	
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	





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No.	Part No.	Part Description	Restricted Substances	Results (mg/kg)		Comment on RoHS	Resubmitted Date/ Source of Data
				XRF	Chemical Testing		
4	4	Blue soft plastic	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
5	5	Red soft plastic	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
6	6	Golden sticker	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	252	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	





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No.	Part No.	Part Description	Restricted Substances	Results (mg/kg)		Comment on RoHS	Resubmitted Date/ Source of Data
				XRF	Chemical Testing		
7	7	White sticker	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
8	8	Golden sticker	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
9	9	Black metal screw	Cd	BL	Cr(VI): Negative ($<0.10 \mu\text{g}/\text{cm}^2$)	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	IN		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
			DIBP	NA	NA	PASS	





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No.	Part No.	Part Description	Restricted Substances	Results (mg/kg)		Comment on RoHS	Resubmitted Date/ Source of Data
				XRF	Chemical Testing		
10	10	Silvery sticker	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
11	11	Black plastic (wire insulation)	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	249	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
12	12	Red plastic (wire insulation)	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	200	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	





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				XRF	Chemical Testing		
13	13	Black plastic sheet	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	249	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
14	14	Silvery metal	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
15	15	Golden metal	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
			DIBP	NA	NA	PASS	





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No.	Part No.	Part Description	Restricted Substances	Results (mg/kg)		Comment on RoHS	Resubmitted Date/ Source of Data
				XRF	Chemical Testing		
16	16	Black plastic jacket	Cd	BL	PBBs/PBDEs: ND	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	IN		PASS	
			PBDEs	IN		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
17	17	Black plastic jacket	Cd	BL	PBBs/PBDEs: ND	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	IN		PASS	
			PBDEs	IN		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
18	18	Red plastic (wire insulation)	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	149	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	





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				XRF	Chemical Testing		
19	19	Black plastic (wire insulation)	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	133	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
20	20	Solder	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
21	21	Green PCB	Cd	BL	PBBs/PBDEs: ND	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	IN		PASS	
			PBDEs	IN		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	





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				XRF	Chemical Testing		
22	22	Golden metal	Cd	IN	Cd: 10.7 Pb: 3.68×10^4 See remark (4)	PASS	\
			Pb	OL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
23	23	Gray plastic (wire insulation)	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	93	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
24	24	Silvery metal screw	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
			DIBP	NA	NA	PASS	





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ORIGINAL

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No.	Part No.	Part Description	Restricted Substances	Results (mg/kg)		Comment on RoHS	Resubmitted Date/ Source of Data
				XRF	Chemical Testing		
25	25	Silvery metal with black coating	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
26	26	Silvery metal with black coating	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
27	27	Translucent plastic	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	





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				XRF	Chemical Testing		
28	28	Brown capacitor	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
29	29	Black IC	Cd	BL	PBBs/PBDEs: ND	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	IN		PASS	
			PBDEs	IN		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
30	30	Golden metal	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
			DIBP	NA	NA	PASS	





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				XRF	Chemical Testing		
31	31	Solder	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
32	32	Green PCB	Cd	BL	PBBs/PBDEs: ND	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	IN		PASS	
			PBDEs	IN		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
33	33	Green PCB	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	





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				XRF	Chemical Testing		
34	34	Brown capacitor	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
35	35	Yellow capacitor	Cd	BL	PBBs/PBDEs: ND	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	IN		PASS	
			PBDEs	IN		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
36	36	Black SMD resistor	Cd	BL	Cr(VI): ND	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	IN		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	





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				XRF	Chemical Testing		
37	37	Black triode	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
38	38	Black IC	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
39	39	Black IC	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	





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				XRF	Chemical Testing		
40	40	Black plastic	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
41	41	Silvery metal	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
42	42	Copper metal	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
			DIBP	NA	NA	PASS	





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				XRF	Chemical Testing		
43	43	Black plastic	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
44	44	Transparent plastic	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
45	45	White soft plastic	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	





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				XRF	Chemical Testing		
46	46	Transparent plastic	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
47	47	White plastic sheet	DIBP	NA	ND	PASS	\
			Cd	BL	\	PASS	
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
48	48	Black soft plastic	DBP	NA	ND	PASS	\
			DIBP	NA	ND	PASS	
			Cd	BL	\	PASS	
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	





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				XRF	Chemical Testing		
49	49	Transparent gray plastic sheet	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
50	50	Transparent glass	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
51	51	White PCB	Cd	BL	PBBs/PBDEs: ND	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	IN		PASS	
			PBDEs	IN		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	





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				XRF	Chemical Testing		
52	52	Solder	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
53	53	Black resin	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
54	54	Solder	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
			DIBP	NA	NA	PASS	





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				XRF	Chemical Testing		
55	55	Green PCB	Cd	BL	PBBs/PBDEs: ND	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	IN		PASS	
			PBDEs	IN		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
56	56	Transparent plastic film	DEHP	NA	ND	PASS	\
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	
			Cd	BL	\	PASS	
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
57	57	Silvery metal with gray coating	PBBs	BL		PASS	\
			PBDEs	BL		PASS	
			DEHP	NA	98	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	
			Cd	BL	\	PASS	
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	NA		PASS	
			PBDEs	NA		PASS	
			DEHP	NA	NA	PASS	
			BBP	NA	NA	PASS	
			DBP	NA	NA	PASS	
			DIBP	NA	NA	PASS	





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				XRF	Chemical Testing		
58	64	Brown paperboard	Cd	BL	\	PASS	\
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
59	65	White paper	DIBP	NA	ND	PASS	\
			Cd	BL	\	PASS	
			Pb	BL		PASS	
			Hg	BL		PASS	
			Cr(VI)	BL		PASS	
			PBBs	BL		PASS	
			PBDEs	BL		PASS	
			DEHP	NA	ND	PASS	
			BBP	NA	ND	PASS	
			DBP	NA	ND	PASS	
			DIBP	NA	ND	PASS	

Note:

mg/kg = milligram per kilogram = ppm

ND = Not detected (<MDL)

BL = Less than screening limits of XRF

OL = More than screening limits of XRF

IN = Inconclusive

NA = Not applicable

\ = Not available

> = More than

Remark:

(1) The results of XRF are only for reference ;

(2) For hexavalent chromium (Cr (VI)), XRF testing result is the content of Chromium (Cr) elements; for





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polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs), XRF testing result is the content of Bromine (Br) elements;

- (3) According to IEC 62321-7-1-2015, three types of Cr (VI) results for coating on metals is as follows:

Sample Cr(VI) concentration is $< 0,10 \mu\text{g}/\text{cm}^2$, The coating is considered a non-Cr(VI) based coating, the sample is negative for Cr(VI);

Sample Cr(VI) concentration is between $0,10 \mu\text{g}/\text{cm}^2$ and $0,13 \mu\text{g}/\text{cm}^2$, The result is considered to be inconclusive, if addition samples are available, perform a total of 3 trials to increase sampling surface area, use the averaged result of the 3 trials for the final determination;

Sample Cr(VI) concentration is $> 0,13 \mu\text{g}/\text{cm}^2$, The sample coating is considered to contain Cr(VI), The sample is positive for Cr(VI);

- (4) According to the product specification from client, Part No.22 is copper alloy, while Lead as an alloying element in copper alloy containing up to 4.0% Lead by weight is exempted by RoHS Directive 2011/65/EU of the European Parliament and of the council of 8 June 2011.

4. Method Detection Limit (MDL) :

For XRF screening analysis (mg/kg)

Item	Pb	Cd	Hg	Br	Cr
Polymer	20	20	20	20	20
Other materials	50	50	50	50	50

For chemical testing (mg/kg)

Item	Pb	Cd	Hg	PBBs	PBDEs	DEHP	BBP	DBP	DIBP	Cr (VI)
General materials	2	2	2	5	5	50	50	50	50	See remark (2)

Remark:

(1) PBBs and PBDEs method detection limit only for one substance;

(2) MDL for polymer and Composites is 8mg/kg, MDL for coating on metals is $0.02\mu\text{g}/\text{cm}^2$.

5. RoHS Requirement (mg/kg) :

Restricted substances	Cd	Pb	Hg	Cr(VI)	PBBs	PBDEs	DEHP	BBP	DBP	DIBP
RoHS limit	100	1000	1000	1000	1000	1000	1000	1000	1000	1000



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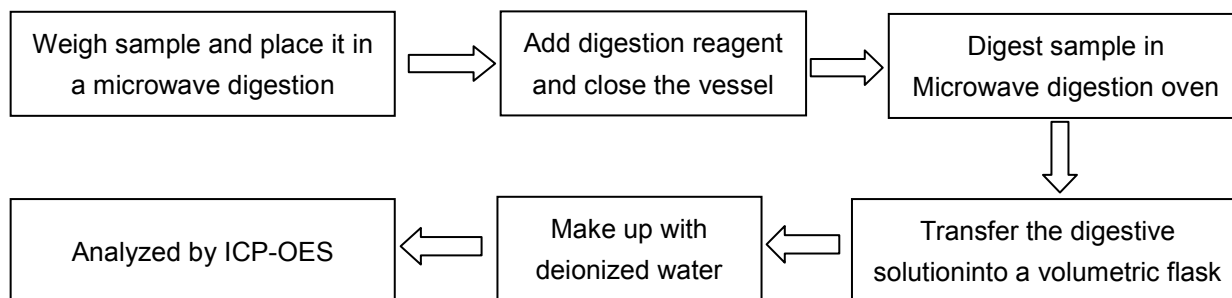
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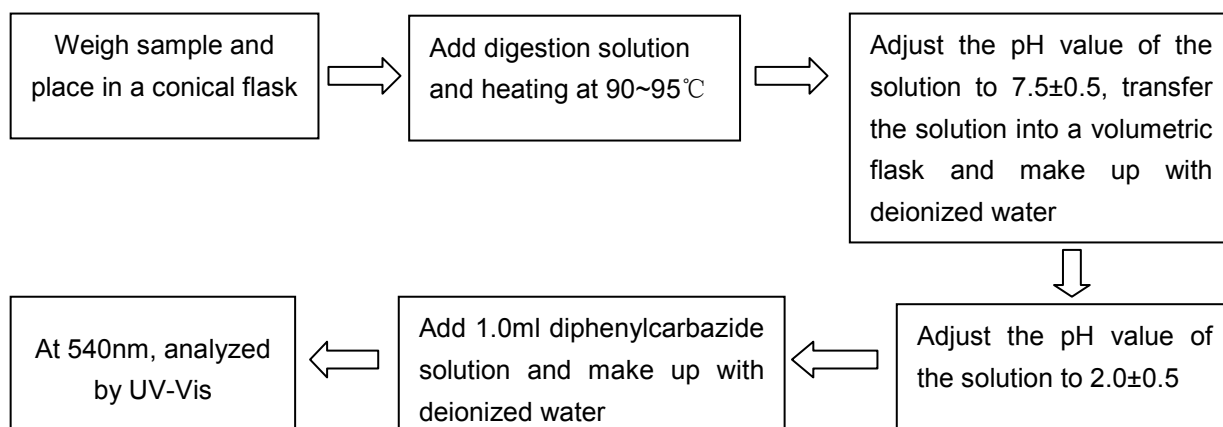
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6. Chemical Test Process:

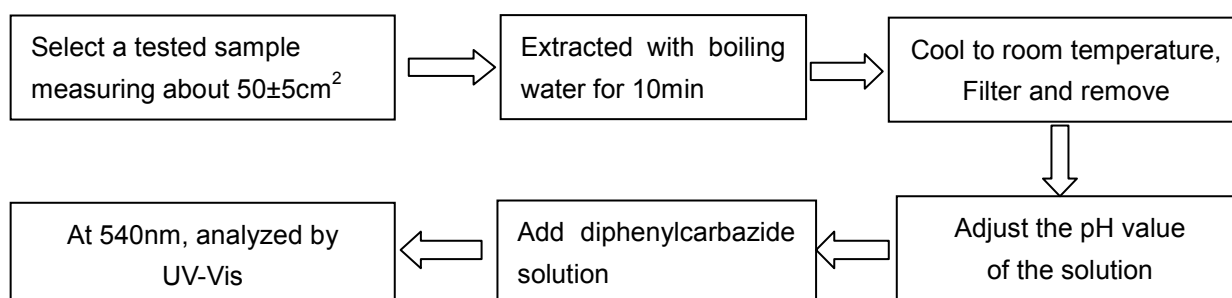
(1) Lead (Pb), Cadmium (Cd), Mercury (Hg)



(2) Hexavalent Chromium (Cr (VI)) (Alkaline extraction)



(3) Hexavalent Chromium (Cr (VI)) (Boiling water extraction)





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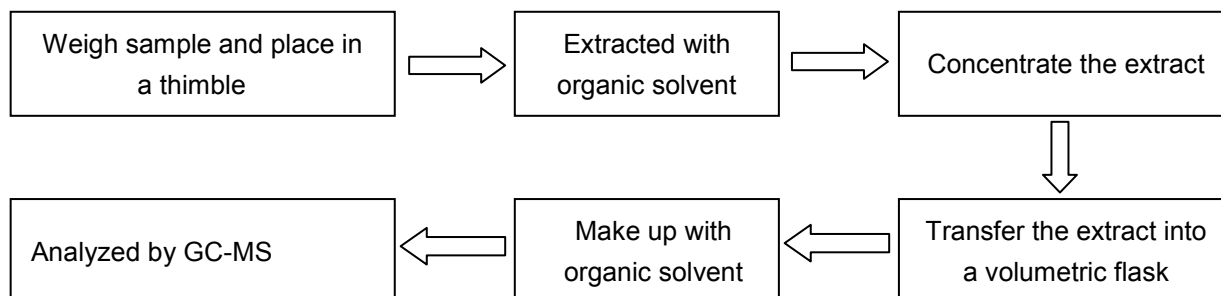
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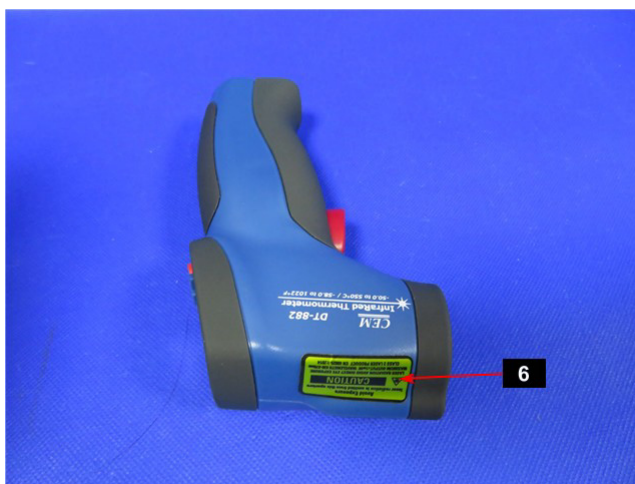
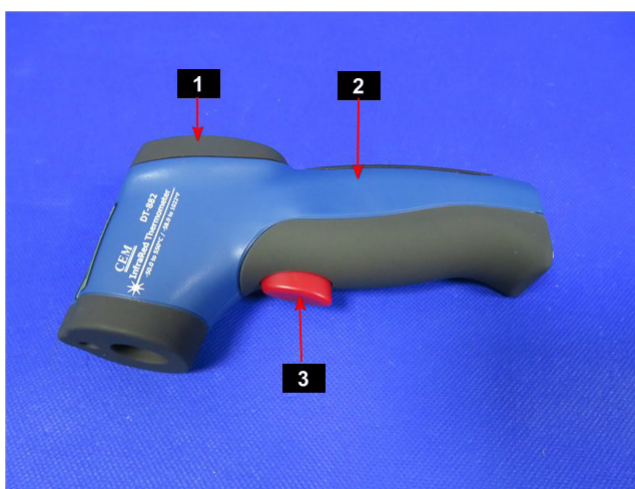
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(4) PBBs /PBDEs, DEHP, BBP, DBP, DIBP



7. Appendix :





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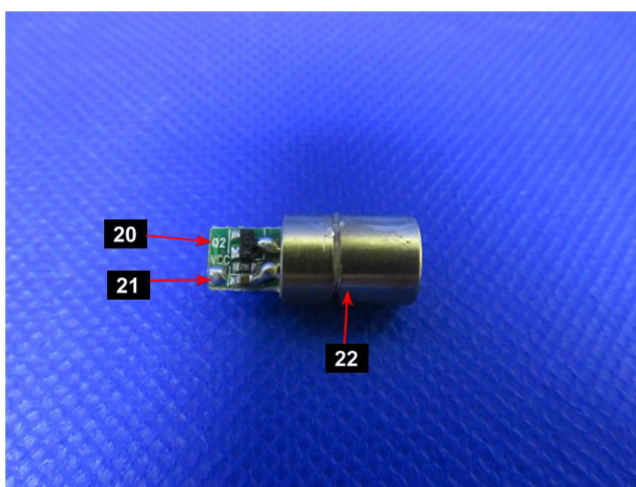
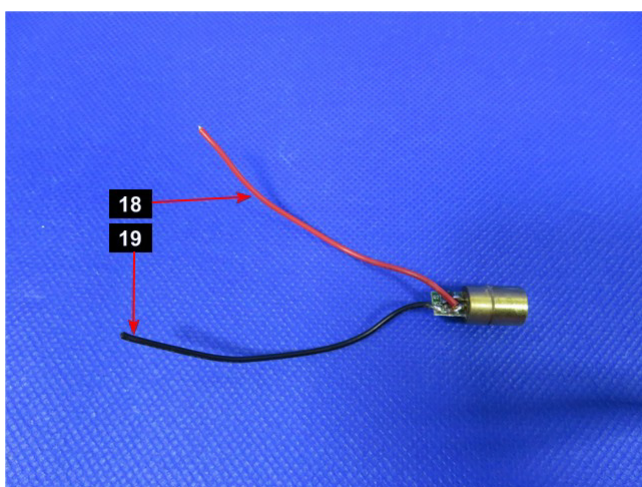
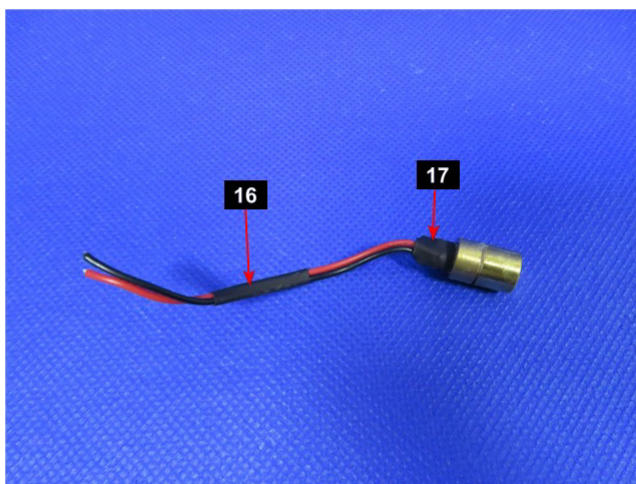
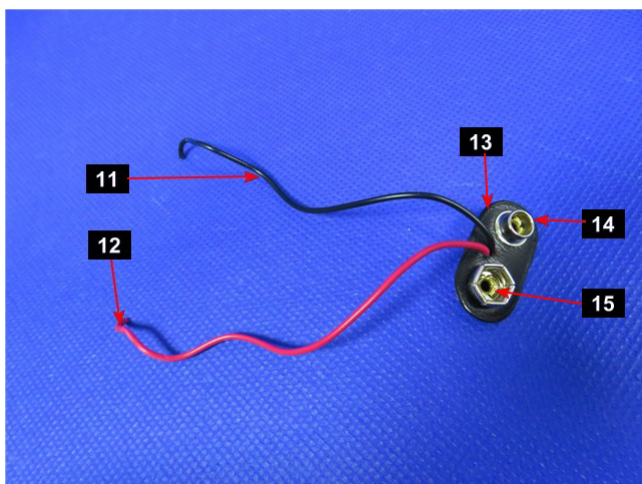
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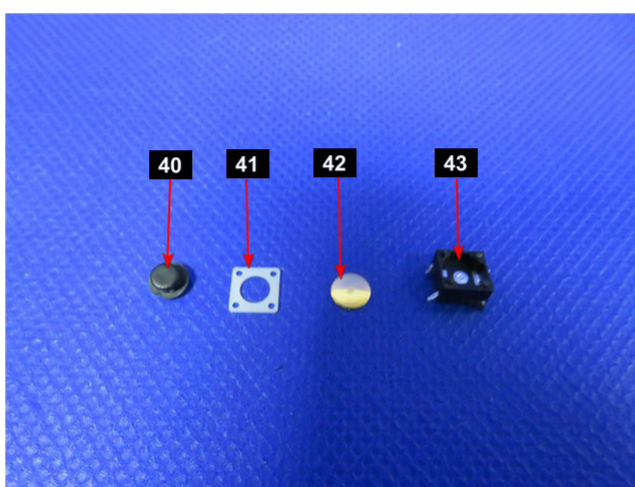
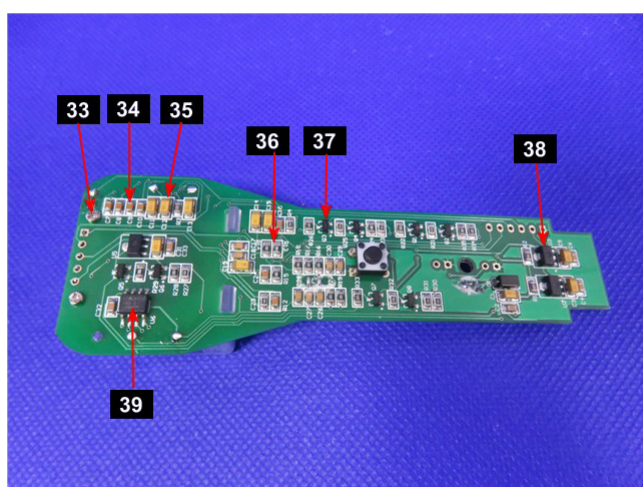
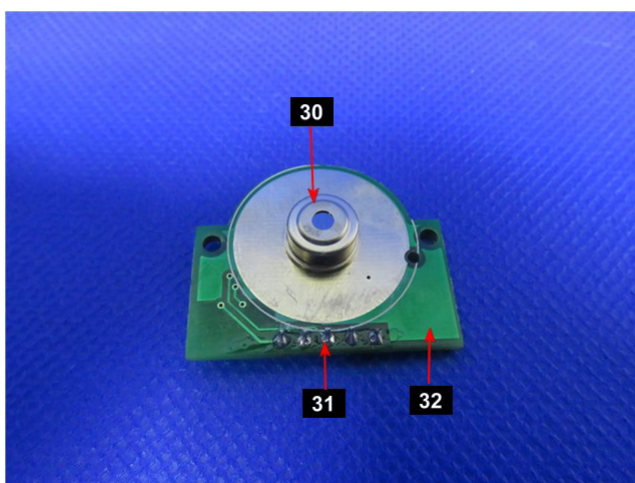
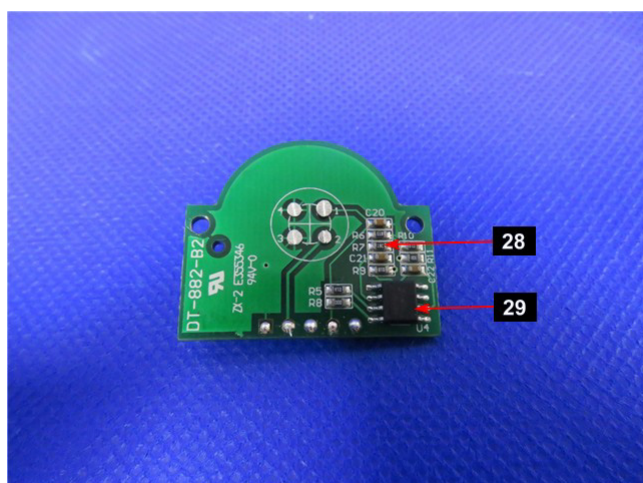
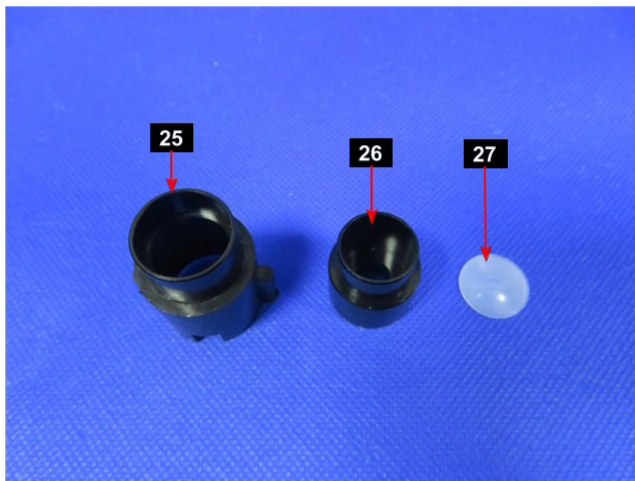
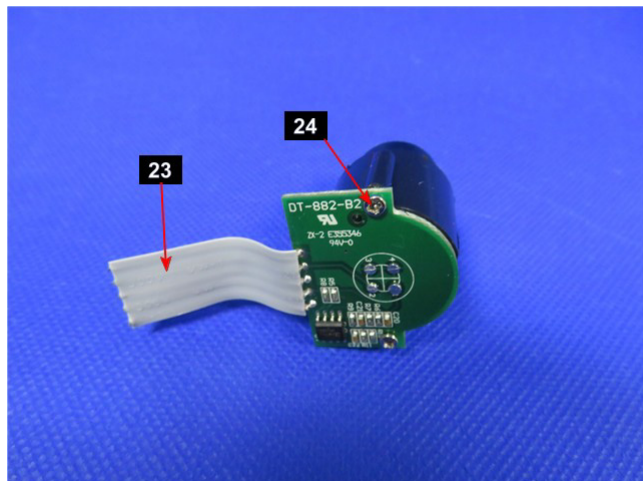
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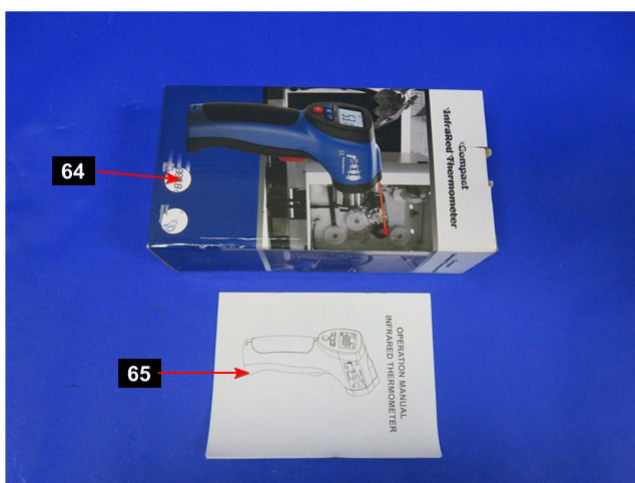
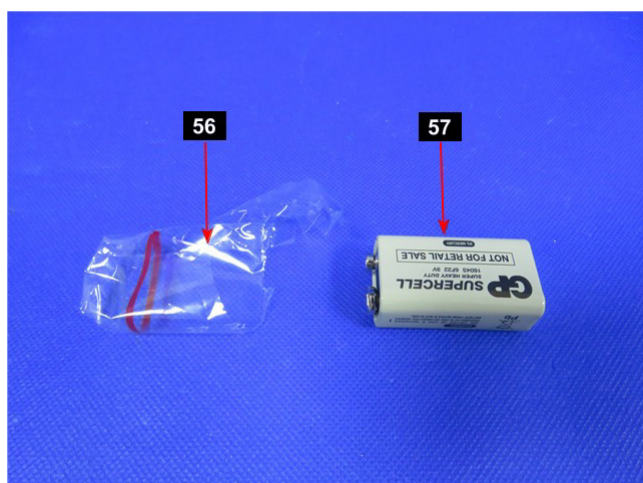
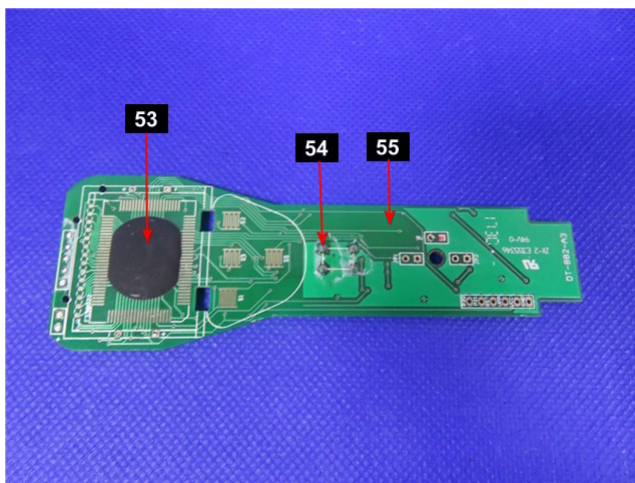
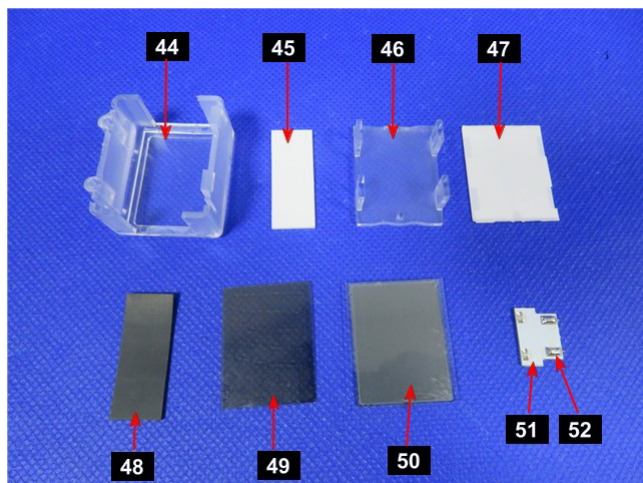
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