



中国检验认证集团深圳有限公司

CHINA CERTIFICATION & INSPECTION GROUP SHENZHEN CO., LTD.

地址: 广东省深圳市福田区金田路 4018 号安联大厦九楼、十楼

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邮编 (P. C.): 518026

ORIGINAL

证书号码 (No.): QHJ2004018103/EN

日期 (Date): 2020-07-02

SHENZHEN EVERBEST MACHINERY INDUSTRY CO., LTD

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

Test Report

SAMPLE NAME : Clamp Meters

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

RECEIVED DATE : April 24, 2020; June 22, 2020

TESTING PERIOD : April 24, 2020 ~ May 13, 2020
June 22, 2020 ~ June 29, 2020

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.

TEST RESULTS : Please refer to next page(s).

CONCLUSION : Based on the performed tests on submitted sample(s), the results Comply
with the RoHS Directive 2011/65/EU and (EU) 2015/863.

Completed by:

Suning. Liang

Suning.Liang

Reviewed by:

Andy. Zhou

Andy.Zhou

Approved by:

Renyou. Yang

Renyou.yang



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1. Sample Models:

DT-9181H, DT-9180B, DT-9180C, DT-9180, DT-9181, DT-9182, DT-9181A, DT-9380, DT-9380A, DT-9381, DT-9381A, DT-9382B, AC-008, AC-008S, DT-9180H, DT-9180D, DT-9181H, DT-9280, DT-9281, DT-9282, DT-9181H, DT-9380, DT-9380A, DT-9381, DT-9382B, DT-9481, DT-9581, DT-9480, DT-390, DT-391, DT-379, DT-395, DT-396, DT-397, DT-9180A, DT-333H, DT-335H, DT-336, DT-350H, DT-351H, DT-380, DT-381, DT-382, DT-383, FC-21, FC-22, DT-330H, DT-3309, DT-3310, DT-3311, DT-3312, DT-3313, DT-3315, DT-3316, CP-10, CP-11, DT-320, DT-320B, DT-320S, DT-320H, DT-320BS, DT-388, DT-395, DT-369, DT-397, DT-398

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	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

P = Less than screening limits of XRF

F = 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
Screening analysis by XRF		
Lead (Pb) Cadmium (Cd) Mercury (Hg) Chromium (Cr) Bromine (Br)	IEC 62321-3-1-2013 (Ed1.0)	ED-XRF
Chemical testing		
Lead (Pb)	IEC 62321-5-2013 (Ed1.0)	ICP-OES
Cadmium (Cd)	IEC 62321-5-2013 (Ed1.0)	ICP-OES
Mercury (Hg)	IEC 62321-4-2013+A1:2017	ICP-OES
Hexavalent chromium (Cr(VI)) for plastic	IEC 62321-7-2-2017 (Ed1.0)	UV-VIS
Hexavalent chromium (Cr(VI)) for coating on metals	IEC 62321-7-1-2015 (Ed1.0)	UV-VIS
PBBs	IEC 62321-6-2015 (Ed1.0)	GC-MS
PBDEs	IEC 62321-6-2015 (Ed1.0)	GC-MS
DBP	IEC 62321-8-2017 (Ed1.0)	GC-MS
BBP	IEC 62321-8-2017 (Ed1.0)	GC-MS
DEHP	IEC 62321-8-2017 (Ed1.0)	GC-MS
DIBP	IEC 62321-8-2017 (Ed1.0)	GC-MS





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3. Test Result(s):

Part No.	Part Description	Restricted Substances	Results (mg/kg)			Conclusion (P/F)	Resubmitted Date/ Source of Data
			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
1	Black plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	PBBs: ND PBDEs: ND	P	
		PBBs	D			P	
		PBDEs	D			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
2	Transparent plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
3	Black soft plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	



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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
4	Red soft plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
5	Transparent plastic	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
6	Gray soft plastic	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	\
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	





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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
7	Black soft plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
8	Yellow soft plastic	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
9	Golden metal	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	





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Part No.	Part Description	Restricted Substances	Results (mg/kg)			Conclusion (P/F)	Resubmitted Date/ Source of Data
			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
10	White plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
11	Golden metal	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	F			P	
12	Golden sticker	Hg	P			P	\
		Cr(VI)	P	\	Pb: 2.97×10^4 See remark (5)	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
13	Golden sticker	BBP	\	\	\	\	\
		DIBP	\	\	\	\	
		Cd	P			P	
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
14	Golden sticker	PBBs	P			P	\
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	





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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
13	Black plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
14	Black plastic	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
15	White sticker	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	D		PBBs: ND PBDEs: ND	P	
		PBDEs	D			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	



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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
16	Transparent plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
17	Silvery metal	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
18	Silvery metal	Hg	P	\	\	P	\
		Cr(VI)	P			P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
18	Silvery metal	BBP	\	\	\	\	\
		DIBP	\	\	\	\	
		Cd	P			P	
		Pb	F			P	
		Hg	P	\	Pb: 3.35×10^4 See remark (5)	P	
		Cr(VI)	P			P	



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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
19	Silvery metal	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
20	Black metal screw	DEHP	\	\	\	\	\
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	
		Cd	P			P	
		Pb	P			P	
21	Silvery metal screw	Hg	P			P	\
		Cr(VI)	D	\	Cr(VI): Negative (<0.10 µg/cm²)	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	



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			EDXRF (P/F/D)	PTH Screening	Chemical testing		
22	Silvery metal screw	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	
23	White plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
24	Red plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	





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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
25	Brown FPC	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
26	Red plastic (wire insulation)	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
27	Silvery metal	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	





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ORIGINAL

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日期 (Date): 2020-07-02

Part No.	Part Description	Restricted Substances	Results (mg/kg)			Conclusion (P/F)	Resubmitted Date/ Source of Data
			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
28	Transparent plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
29	Blue capacitor	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
30	Black plastic	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	





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			EDXRF (P/F/D)	PTH Screening	Chemical testing		
31	Green capacitor	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	D	\	Cr(VI): ND	P	
		PBBs	P			P	
		PBDEs	P			P	
32	Black SMD resistor	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	D			P	
33	Black resin	Hg	P			P	\
		Cr(VI)	D	\	Pb: 1.67×10^3 See remark (6) Cr(VI): ND	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
33	Black resin	BBP	\	P	\	P	\
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
33	Black resin	PBBs	P			P	\
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	





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			EDXRF (P/F/D)	PTH Screening	Chemical testing		
34	Black triode	Cd	P	\	PBBs: ND PBDEs: ND	P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P			P	
		PBBs	D			P	
		PBDEs	D			P	
35	Black diode	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P	\	PBBs: ND PBDEs: ND	P	
		Pb	P			P	
36	White plastic	Hg	P			P	\
		Cr(VI)	P			P	
		PBBs	D			P	
		PBDEs	D			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
36	White plastic	BBP	\	P	\	P	\
		DIBP	\	P	\	P	
		Cd	P	\	\	P	
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P			P	
36	White plastic	PBBs	P			P	\
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	





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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
37	Black diode	Cd	P	\	Pb: 1.28×10^4 See remark (7)	P	\
		Pb	D			P	
		Hg	P			P	
		Cr(VI)	P			P	
		PBBs	P			P	
		PBDEs	P			P	
38	Brown capacitor	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P	\	\	P	
		Pb	P			P	
39	Black IC	Hg	P			P	\
		Cr(VI)	P			P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	



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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
40	Blue resistor	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
41	Green capacitor	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
42	Solder	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	





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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
43	Blue PCB	Cd	P	\	PBBs: ND PBDEs: ND	P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P			P	
		PBBs	D			P	
		PBDEs	D			P	
44	Black plastic	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P	\	PBBs: ND PBDEs: ND	P	
		Pb	P			P	
45	Black plastic	Hg	P			P	\
		Cr(VI)	P			P	
		PBBs	D			P	
		PBDEs	D			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
46	Black plastic	BBP	\	P	\	P	\
		DIBP	\	P	\	P	
		Cd	P	\	\	P	
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P			P	
47	Black plastic	PBBs	P			P	\
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	





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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
46	Red plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
47	Silvery metal	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	F			P	
48	Silvery metal	Hg	P	\	Pb: 2.55×10^4 See remark (5)	P	\
		Cr(VI)	P			P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
49	Silvery metal	BBP	\	\	\	\	\
		DIBP	\	\	\	\	
		Cd	P			P	
		Pb	P			P	
		Hg	P	\	\	P	
		Cr(VI)	P			P	
50	Silvery metal	PBBs	\			\	\
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	





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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
49	Silvery metal	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	
50	Silvery metal	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	
51	White plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	





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			EDXRF (P/F/D)	PTH Screening	Chemical testing		
52	Red plastic (wire insulation)	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
53	Black plastic (wire insulation)	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
54	Dull red plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	





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			EDXRF (P/F/D)	PTH Screening	Chemical testing		
55	Red LED	Cd	P	\	PBBs: ND PBDEs: ND	P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P			P	
		PBBs	D			P	
		PBDEs	D			P	
56	Transparent LED	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P	\	\	P	
		Pb	P			P	
57	Black plastic	Hg	P			P	\
		Cr(VI)	P			P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	



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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
58	Black plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
59	Silvery metal	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
60	Silvery metal	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	\
		DIBP	\	\	\	\	
		Cd	P			P	
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	



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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
61	Black plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
62	Black plastic	DEHP	\	P	\	P	June 22, 2020
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
63	Silvery metal	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	





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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
64	Black plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
65	Silvery metal	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
66	Red metal wire	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	\
		DIBP	\	\	\	\	
		Cd	P			P	
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	



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邮编 (P. C.): 518026

ORIGINAL

证书号码 (No.): QHJ2004018103/EN

日期 (Date): 2020-07-02

Part No.	Part Description	Restricted Substances	Results (mg/kg)			Conclusion (P/F)	Resubmitted Date/ Source of Data
			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
67	Green PCB	Cd	P	\	PBBs: ND PBDEs: ND	P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P			P	
		PBBs	D			P	
		PBDEs	D			P	
68	Silvery metal	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P	\	\	P	
		Pb	P			P	
69	Pink soft plastic	Hg	P			P	\
		Cr(VI)	P			P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	



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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
70	White plastic sheet	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
71	Transparent plastic	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
72	Transparent glass	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	



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			EDXRF (P/F/D)	PTH Screening	Chemical testing		
73	White PCB	Cd	P	\	PBBs: ND PBDEs: ND	P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P			P	
		PBBs	D			P	
		PBDEs	D			P	
74	Yellow LED	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P	\	\	P	
		Pb	P			P	
75	Black plastic	Hg	P			P	\
		Cr(VI)	P			P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	



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			EDXRF (P/F/D)	PTH Screening	Chemical testing		
76	Black plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
77	Red plastic	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
78	Black plastic	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	





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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
79	Red plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
80	Golden metal	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
81	Silvery metal	Hg	P			P	June 22, 2020
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	
		Cd	P			P	
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	





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			EDXRF (P/F/D)	PTH Screening	Chemical testing		
82	Blue plastic (wire insulation)	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
83	White plastic	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
84	Silvery metal wire	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	



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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
85	Silvery metal	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	
86	Yellow plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
87	White plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	\	179	P	
		DBP	\	\	342	P	
		BBP	\	\	ND	P	
		DIBP	\	\	634	P	





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			EDXRF (P/F/D)	PTH Screening	Chemical testing		
88	Silvery metal	Cd	P			P	June 22, 2020
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	
89	Red plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
90	Red plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	





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			EDXRF (P/F/D)	PTH Screening	Chemical testing		
91	Black plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
92	Black plastic	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
93	Black plastic (wire insulation)	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	





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			EDXRF (P/F/D)	PHTH Screening	Chemical testing		
94	Red plastic (wire insulation)	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
95	Black plastic	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
96	Silvery metal	Hg	P			P	June 22, 2020
		Cr(VI)	P	\	\	P	
		PBBs	\			\	
		PBDEs	\			\	
		DEHP	\	\	\	\	
		DBP	\	\	\	\	
		BBP	\	\	\	\	
		DIBP	\	\	\	\	



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			EDXRF (P/F/D)	PTH Screening	Chemical testing		
97	Black plastic	Cd	P			P	\
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
98	Red plastic	DEHP	\	P	\	P	\
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
99	Red plastic	Hg	P			P	\
		Cr(VI)	P	\	\	P	
		PBBs	P			P	
		PBDEs	P			P	
		DEHP	\	P	\	P	
		DBP	\	P	\	P	
		BBP	\	P	\	P	
		DIBP	\	P	\	P	
		Cd	P			P	
		Pb	P			P	
		Hg	P			P	
		Cr(VI)	P	\	\	P	

Note:





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mg/kg = milligram per kilogram = ppm

ND = Not detected (<MDL)

P = PASS = Less than screening limits of XRF

F = FAIL = More than screening limits of XRF

D = DETECTED = Inconclusive

NA = Not applicable

\ = Not available

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 polybrominated biphenyls (PBBs) and polybrominated diphenyl ethers (PBDEs), XRF testing result is the content of Bromine (Br) elements;
- (3) Screening results of PHTH are for primary screening, and further chemical testing by GC-MS (for DBP, BBP, DEHP and DIBP) are recommended to be performed if the concentration (based on weight of a single sample) exceeds the below warning value.

TEST ITEM	Screening Limit (Unit: mg/kg)
Di-2-ethylhexyl phthalate (DEHP)	P≤600<D
Dibutyl phthalate (DBP)	P≤600<D
Benzylbutyl phthalate (BBP)	P≤600<D
Diisobutyl phthalate (DIBP)	P≤600<D

- (4) 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 µg/cm², 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 µg/cm² and 0.13 µg/cm², 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 µg/cm², The sample coating is considered to contain Cr(VI), The sample is positive for Cr(VI);
- (5) According to the product specification from client, No. 11, No. 18 and No. 47 are 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;
- (6) According to the declaration from client, the source of Lead in No. 32 could be from the glass material of that electronic component which is exempted by RoHS Directive 2011/65/EU of the European Parliament and of the council of 8 June 2011.
- (7) According to the declaration from client, the source of Lead in No. 37 could be from the high melting



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temperature type solder, while Lead in high melting temperature type solders above 85% 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;

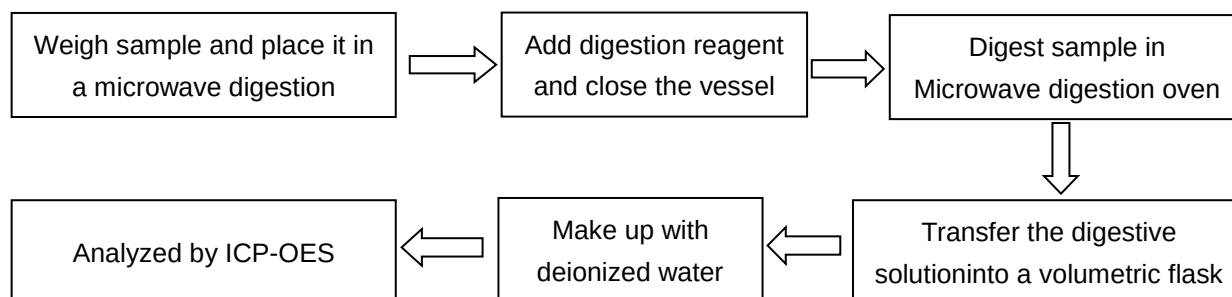
(2) MDL for polymer and Composites is 8 mg/kg, MDL for coating on metals is 0.02 µg/cm².

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

6. Chemical Test Process:

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





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传真 (FAX): 86-755-88286288

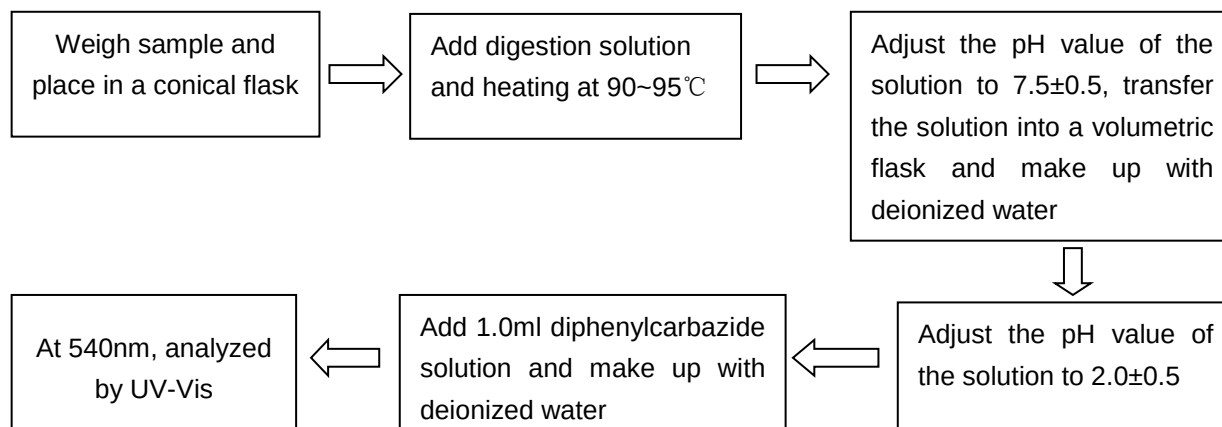
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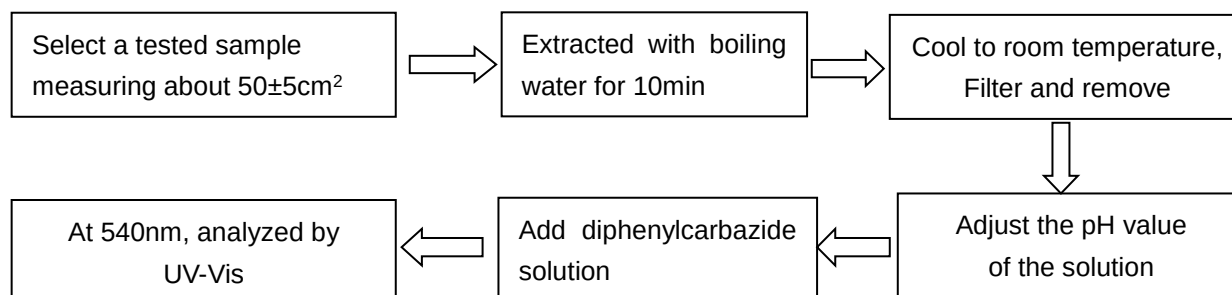
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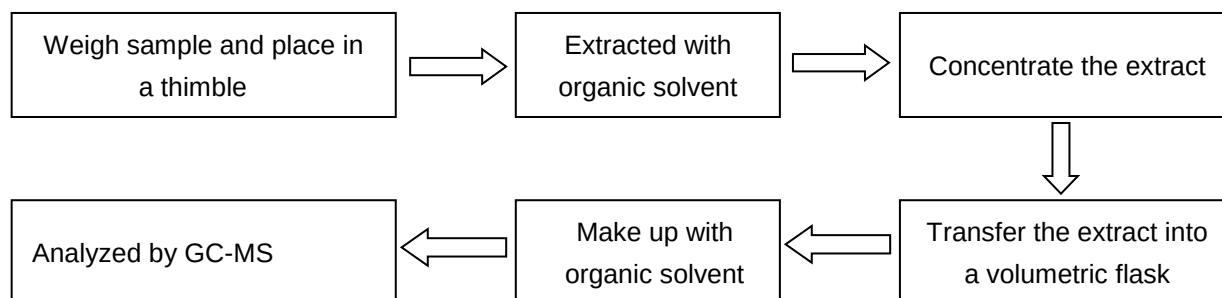
(2) Hexavalent Chromium (Cr(VI)) (Alkaline extraction)



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



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





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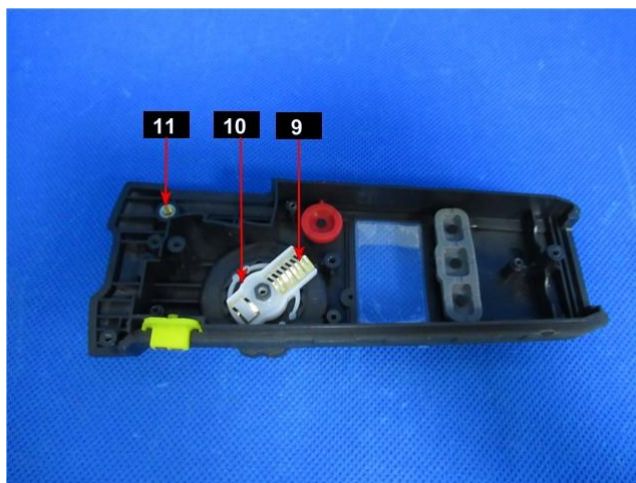
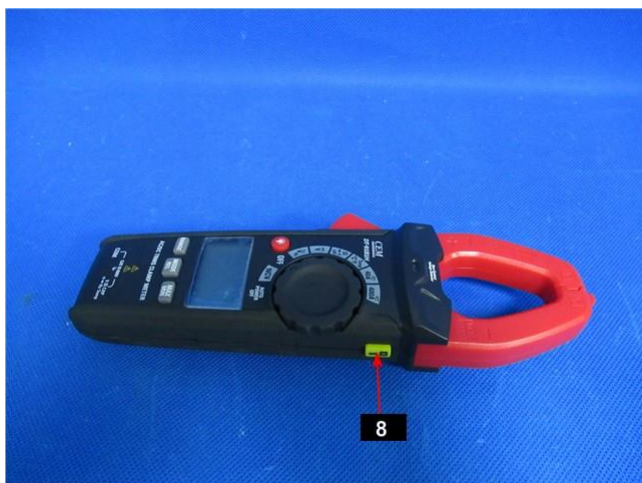
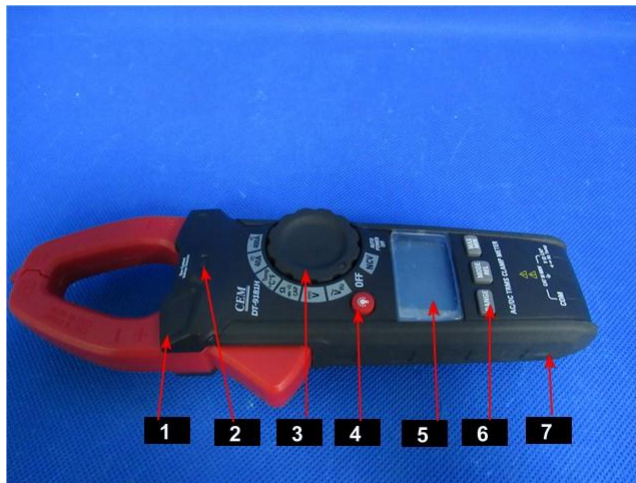
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7. Appendix:





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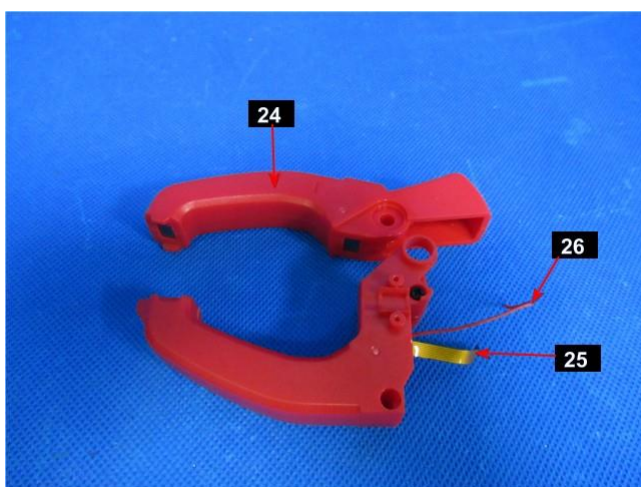
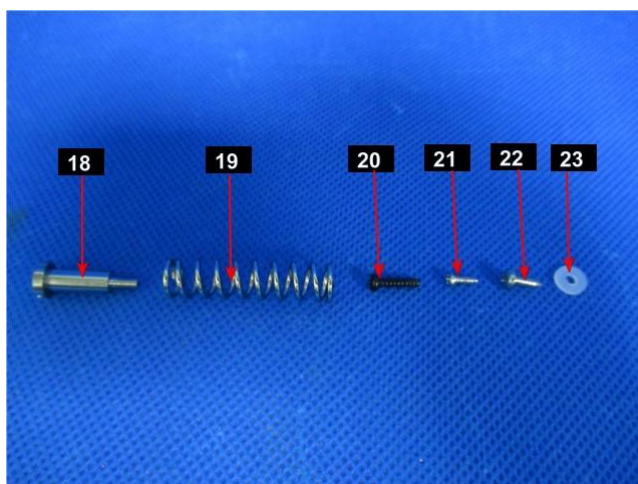
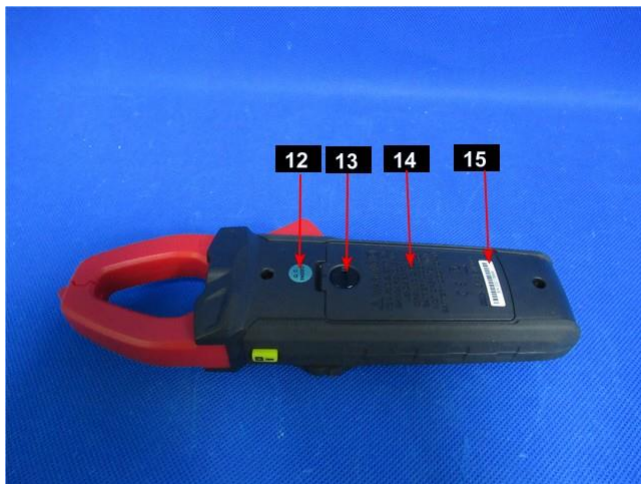
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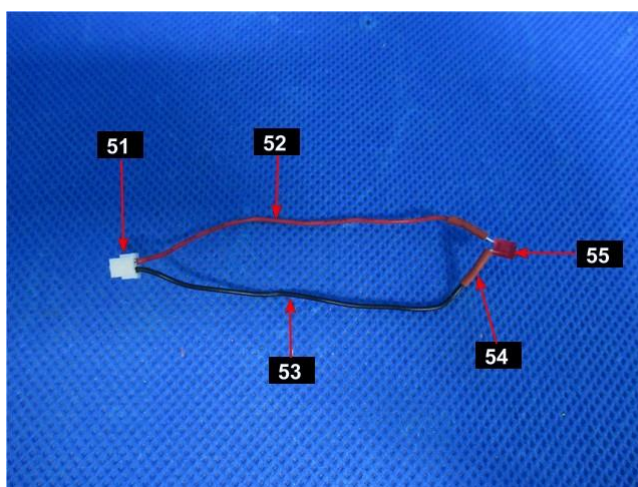
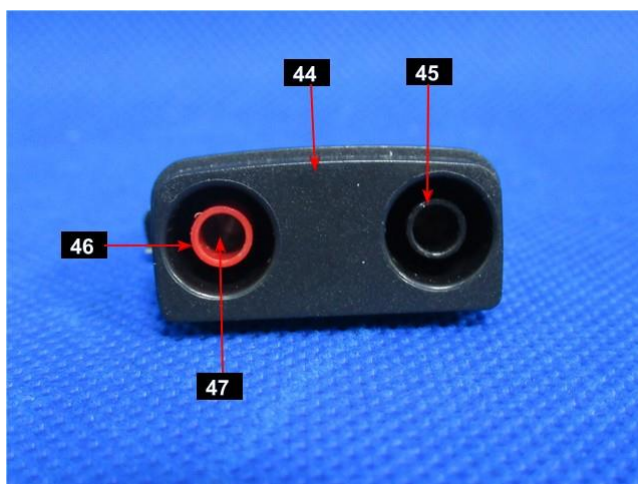
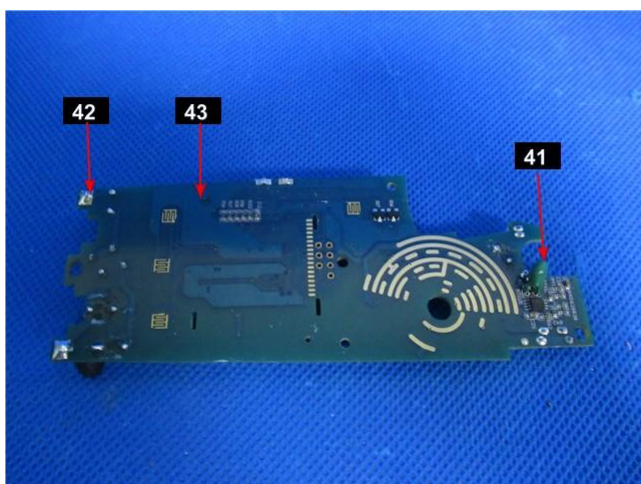
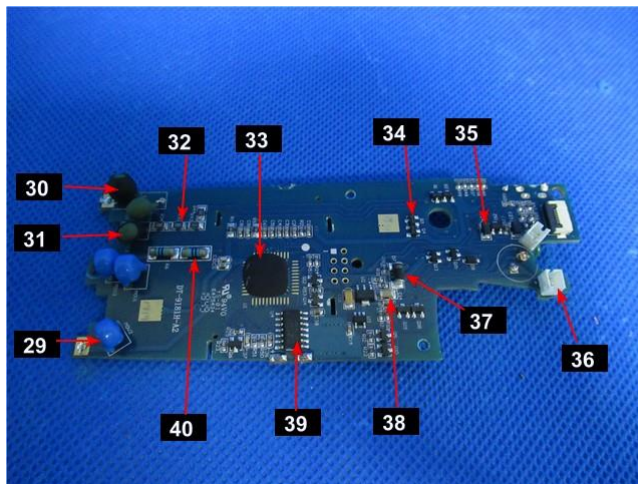
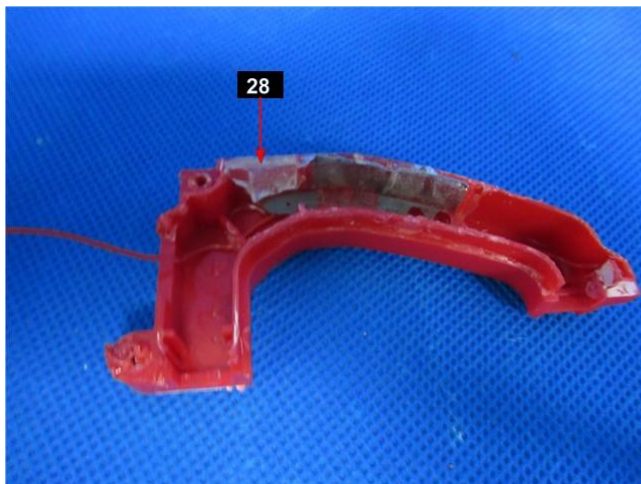
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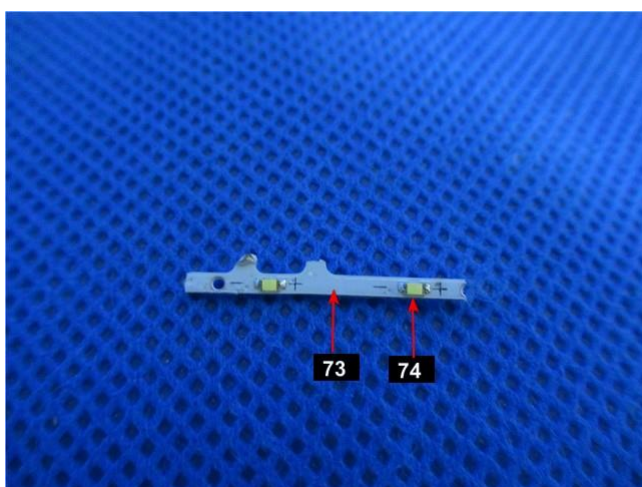
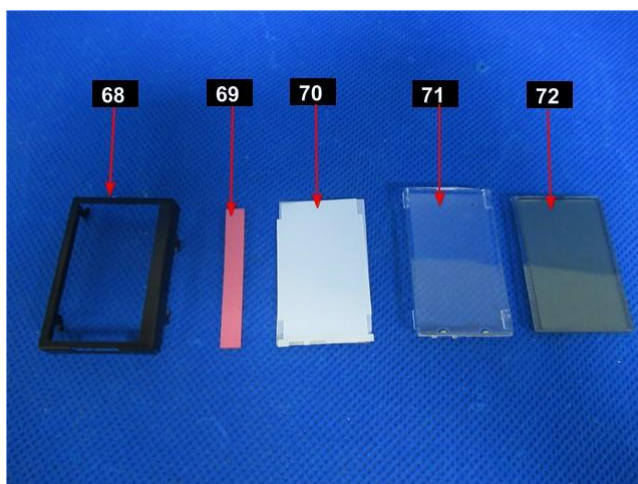
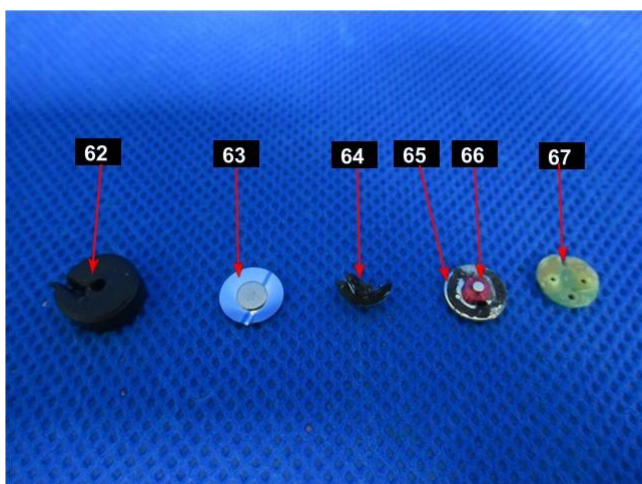
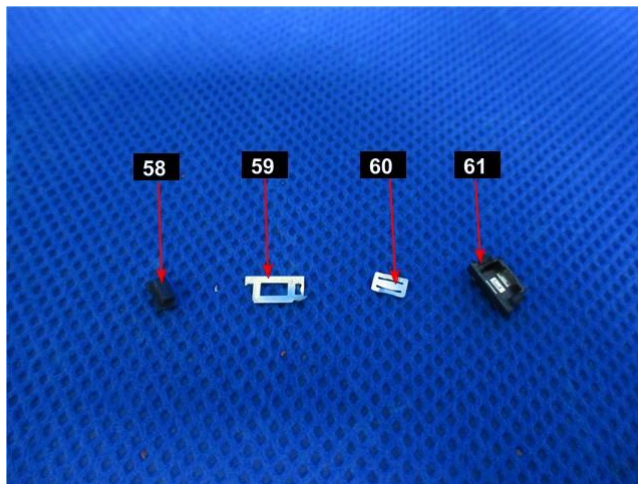
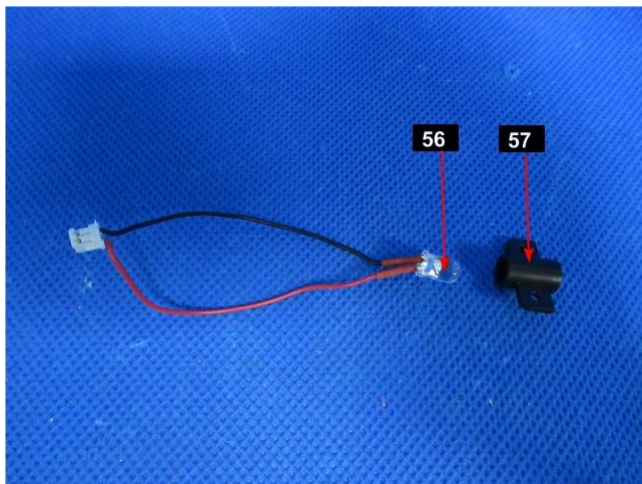
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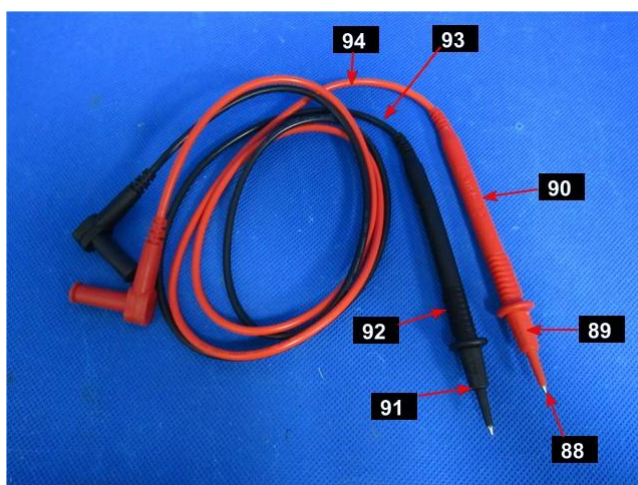
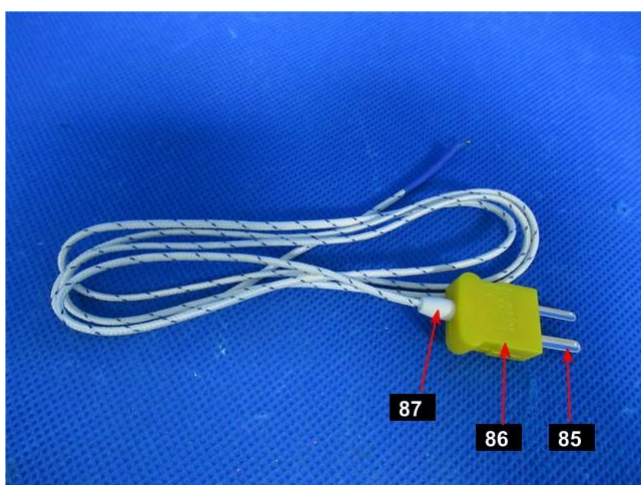
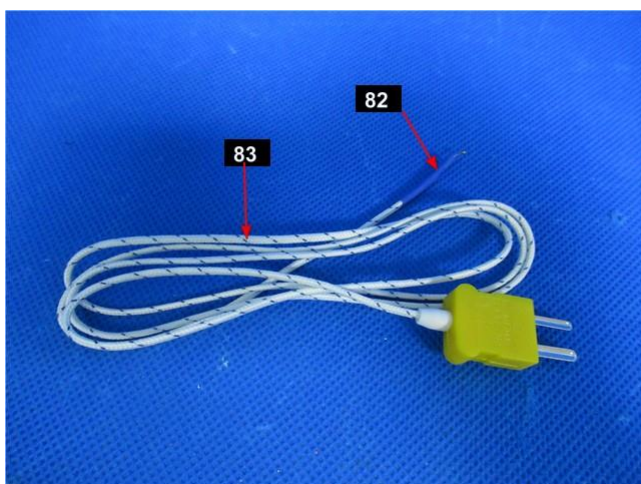
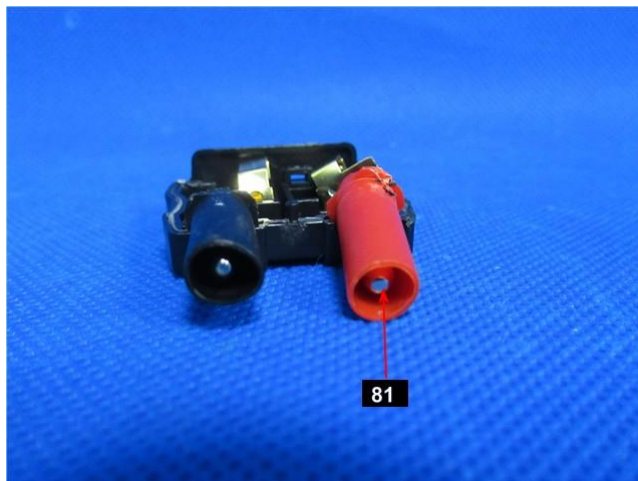
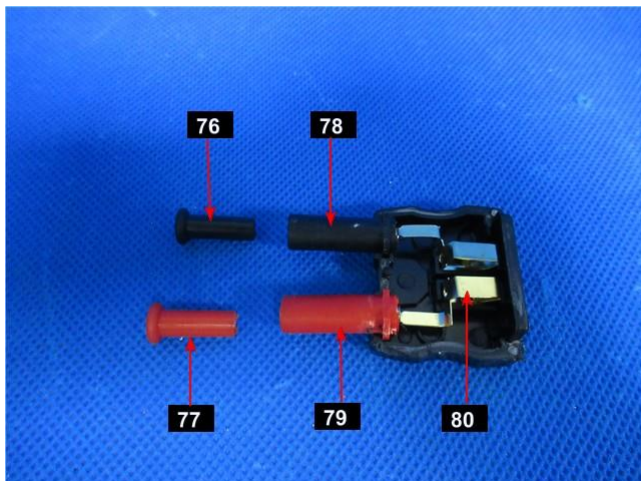
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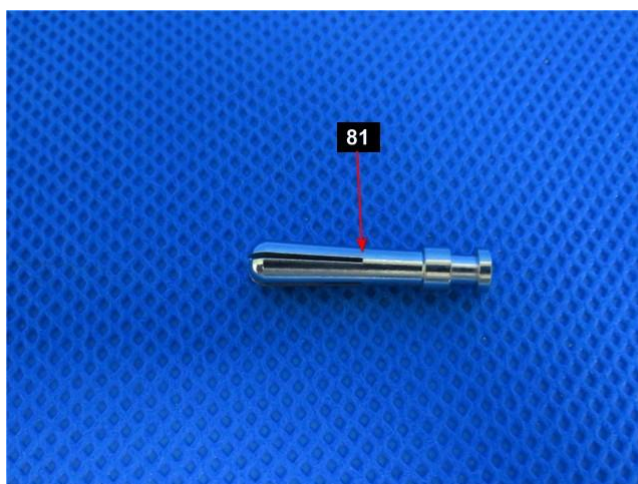
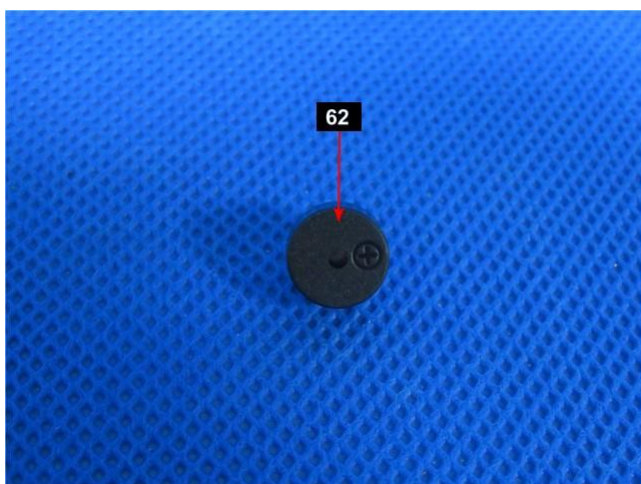
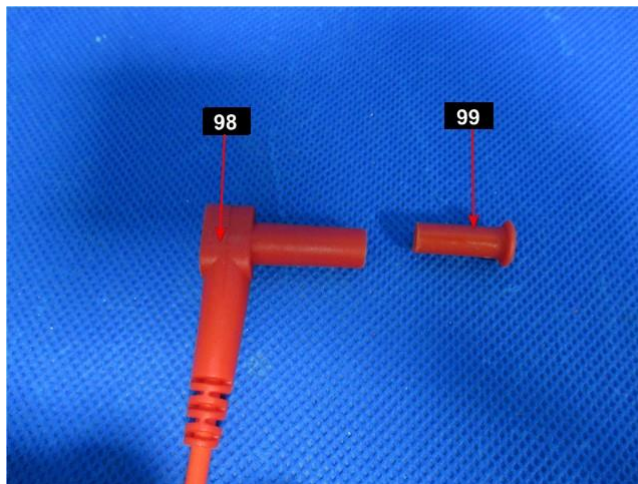
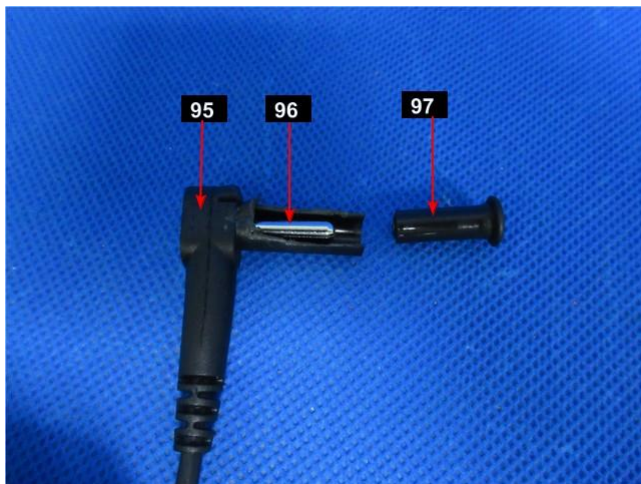
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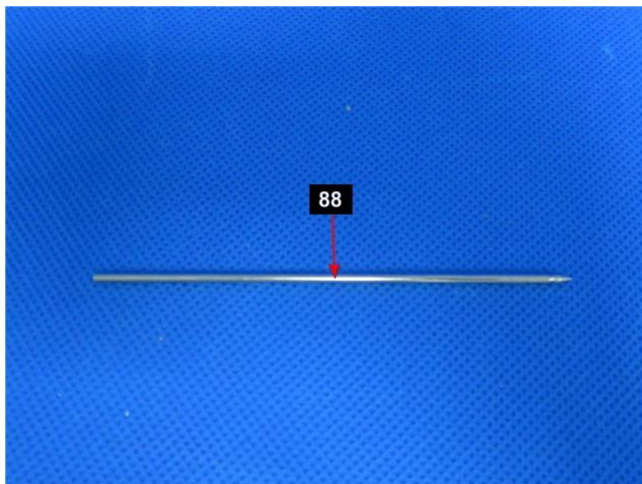
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