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Applicant Company Name: Radiolink Electronic Limited

Applicant Company Address: 3/F, Building 2, Fuguo Industrial Park, Kaifeng Road, Meilin, Shenzhen,

Guangdong, China

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name : Remote controller

Model No. : T16D, T12D

Sample Receiving Date : November 20, 2024

Testing Period : From November 20, 2024 to December 04, 2024

Results : Please refer to next page(s).

Summary of Test Results:

<u>TEST REQUEST</u> <u>CONCLUSION</u>

EU RoHS Directive 2011/65/EU and its amendment directives 2015/863/EU (RoHS)

Pass

Shenzhen Deesev Testing International Corp

Approved by:

lah manager

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Results:

1. EU RoHS Directive 2011/65/EU and its amendment directives on XRF

Test method: With reference to IEC 62321-3-1:2013, Screening by X-ray Fluorescence Spectroscopy (XRF)

Seq.	Track d Post(a)	0.	(DTI)	Result	971)	(0)
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br
1	Black Plastic Case	BL	BL	BL	BL	BL
2	Silver Metal	BL	BL	BL	Х	N/A
3	White Label Sticker	BL	BL	BL	BL	BL
4	Grey Coating	BL	BL	BL	BL	BL
5	Black Plastic Frame	BL	BL	BL	BL	BL
6	Black Foam Viscose	BL	BL	BL	BL	BL
7	PCB	BL	BL	BL	BL	BL
8	Solder Point	BL	BL	BL	BL	N/A
9	White Plastic Case	BL	BL	BL	BL	BL
10	Silver Metal Needle	BL	BL	BL	BL	N/A
11	Beige Plastic Case	BL	BL	BL	BL	BL
12	Silver Metal Needle	BL	BL	BL	BL	N/A
13	Black Plastic Case	BL	BL	BL	BL	X
14	Silver Metal Needle	BL	BL	BL	BL	N/A
15	Black Ceramic Body Chip	BL	BL	BL	BL	BL
16	Patch Resistor	BL	BL	BL	BL	BL
17	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL	BL
18	Crystal Oscillator	BL	BL	BL	BL	N/A
19	Gold Metal Socket	BL	BL	OBL	BL	N/A
20	Silver Metal Case (Micro)	BL	BL	BL	Х	N/A



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Seq.	Tooted Dout(a)			Results	3	
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br
21	Internal Black Plastic	BL	BL	BL (BL	BL
22	Silver Metal Needle	BL	BL	BL	BL	N/A
23	Electrolytic Capacitor Silver Metal Case	BL	BL	BL	BL	N/A
24	Electrolytic Capacitor Internal Sticker	BL	BL	BL	BL (BL
25	Silver Metal Case (Switch Cover)	BL	BL	BL	BL	N/A
26	Black Plastic Button(Touch Switch)	BL	BL	BL	BL	BL
27	Silver Metal Sheet (Touch Switch)	BL	BLo	BL	X	N/A
28	Black Plastic Base(Touch Switch)	BL	BL	BL	BL	BL
29	Silver Metal Case	BL	BL	BL	Х	N/A
3001	Red Plastic Cover	BL	BL	BLO	BL	X
31	Silver Metal Knob	BL	BL	BL	BL	N/A
32	Red LED	BL	BL	BL	BL	BL
33	Green LED	BL	BL	BL	BLO	BL
34	White Plastic Spacer Column	BL	BL	BL	BL	BL
35	Silver Metal Pin	BL	BL	BL	BL	N/A
36	Silver Metal Cover	BL	BL	BL	BL	N/A
37	Black Plastic Case	BL	BL	BL	BL	BL
38	Black Plastic Knob	BL	BL	BL	BL	BL
39	Silver Metal Cover	BL	BL	BL	BL	N/A
40	Green Plastic Case	BL	BL	BL	BL	Х

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Seq.	Tosted Part(s)	Results					
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br	
41	Silver Metal Knob	BL	BL	BL (BL	N/A	
42	Black Ceramic Body Chip	BL	BL	BL	BL	BL	
43	Patch Resistor	BL	BL	BL	BL	BL	
44	Multiplayer Ceramic Chip Capacitors	BL	BL	BL	BL (BL	
45	Patch Coil Inductor	BL	BL	BL	BL	BL	
46	Copper Winding	BL	BL	BL	BL	N/A	
47	Silver Metal Case (Switch Cover)	BL	BLo	BL	BL	N/A	
48	Black Plastic Button (Touch Switch)	BL	BL	BL	BL	BL	
49	Silver Metal Sheet (Touch Switch)	BL	BL	BL	Х	N/A	
50 011	Black Plastic Base (Touch Switch)	BL	BL	BLO	BL	BL	
51	FPC	BL	BL	BL	BL	BL	
52	Display Screen Glass	BL	BL	BL	BL	BL	
53	Transparent Plastic Sheet	BL	BL	BL	BL®	BL	
54	Black Coating	BL	BL	BL	BL	BL	
55	Black Plastic Sheet	BL	BL	BL	BL	BL	
56	Silver Metal Frame	BL	BL	BL	X	N/A	
57	White Plastic Frame	BL	BL	BL	BL	BL	
58	Silver Metal Base	BL	BL	BL	Х	N/A	
59	White Plastic Sheet	BL	BL	BL	BL	BL	
60	White Plastic Patch	BL	BL	BL	BL	BL	

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(8) (8) (8) (8)	(D.	10)	(0.	
Tested Part(s)		F	Results	BL BL BL	
rooted range	Pb	Cd	Hg	Cr	Br
Transparent Plastic Sheet	BL	BL	BL (BL	BL
FPC	BL	BL	BL	BL	BL
LED	BL	BL	BL	BL	BL
PCB III (DIII (DIII (DIII (DIII	BL	BL	BL	BL (BL
Solder Point	BL	BL	BL	BL	N/A
Black Plastic Case	BL	BL	BL	BL	BL
Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
White Plastic Wire Outer Skin	BL	BL	BL	BL	BL
Wire Internal Metal Wire	BL	BL	BLO	BL	N/A
White Plastic Plug-In	BL	BL	BL	BL	BL
Silver Metal Terminal	BL	BL	BL	BL	N/A
Black Non-Woven Fabric	BL	BL	BL	BL®	BL
Copper Winding	BL	BL	BL	BL	N/A
Silver Metal Base	BL	BL	BL	BL	N/A
Silver Metal Magnet	BL	BL	BL	BL	N/A
Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
Wire Internal Metal Wire	BL	BL	BL	BL	N/A
White Plastic Plug-In	BL	BL	BL	BL	BL
	FPC LED PCB Solder Point Black Plastic Case Black Plastic Wire Outer Skin Red Plastic Wire Outer Skin White Plastic Wire Outer Skin Wire Internal Metal Wire White Plastic Plug-In Silver Metal Terminal Black Non-Woven Fabric Copper Winding Silver Metal Base Silver Metal Magnet Black Plastic Wire Outer Skin Red Plastic Wire Outer Skin Wire Internal Metal Wire	Transparent Plastic Sheet FPC BL FPC BL LED PCB BL Solder Point BL Black Plastic Case BL Black Plastic Wire Outer Skin Red Plastic Wire Outer Skin BL White Plastic Wire Outer Skin BL Wire Internal Metal Wire BL Silver Metal Terminal BL Black Non-Woven Fabric Copper Winding Silver Metal Base BL Silver Metal Magnet BL Black Plastic Wire Outer Skin BL Red Plastic Wire Outer Skin BL Black Non-Woven Fabric BL Silver Metal Base BL Silver Metal Magnet BL Black Plastic Wire Outer Skin BL Red Plastic Wire Outer Skin BL Wire Internal Metal Wire	Tested Part(s) Pb Cd Transparent Plastic Sheet FPC BL BL BL EDD PCB BL BL Solder Point BL BL Black Plastic Case BL BL Black Plastic Wire Outer Skin Red Plastic Wire Outer Skin White Plastic Wire Outer Skin BL BL White Plastic Plug-In Silver Metal Terminal BL BL Black Non-Woven Fabric Copper Winding Silver Metal Base BL BL Black Plastic Wire Outer Skin BL BL Black Non-Woven Fabric BL BL Black Red Plastic Wire Outer Skin BL BL Black Red Plastic Base BL BL Black Red Plastic Wire Outer Skin BL BL Black Red Plastic Wire Outer Skin	Tested Part(s) Pb Cd Hg Transparent Plastic Sheet BL BL <t< td=""><td>Transparent Plastic Sheet FPC BL BL BL BL BL BL BL BL BL B</td></t<>	Transparent Plastic Sheet FPC BL BL BL BL BL BL BL BL BL B

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Seq.	Tooks d Double)		F	Results	Hg Cr BL BL BL BL	
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br
81	Silver Metal Terminal	BL	BL	BL (BL	N/A
82	Black Plastic Case	BL	BL	BL	BL	BL
83	Black Plastic Cover	BL	BL	BL	BL	BL
84	Red Viscose	BL	BL	BL	BL (BL
85	Black Plastic Case	BL	BL	BL	BL	BL
86	Gold Metal Needle	Х	BL	BL	BL	N/A
87	Black Plastic Wire Outer Skin	BL	BLot	BL	BL	BL
88	Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
89	White Plastic Wire Outer Skin	BL	BL	BL	BL	BL
90	Wire Internal Metal Wire	BL	BL	BLO	BL	N/A
91	White Plastic Plug-In	BL	BL	BL	BL	BL
92	Silver Metal Terminal	BL	BL	BL	BL	N/A
93	Silver Metal Cover	BL	BL	BL	BL®	N/A
94	Golden Metal Bush	BL	BL	BL	BL	N/A
95	Black Plastic Case	BL	BL	BL	BL	BL
96	Brush Spring Sheet	BL	BL	BL	BL	N/A
97	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
98	Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
99	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
100	White Plastic Plug-In	BL	BL	BL	BL	BL

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Seq.	Tooks d Double)		F	Results	Hg Cr BL BL BL X	
No.	Tested Part(s)	Pb	Cd	Hg	Cr	Br
101	Silver Metal Terminal	BL	BL	BL (BL	N/A
102	Silver Metal	BL	BL	BL	BL	N/A
103	Silver Metal Shaft	BL	BL	BL	Х	N/A
104	Rotor Cooper Coils	BL	BL	BL	BL (N/A
105	Black Plastic Case	BL	BL	BL	BL	BL
106	Black Plastic Cover	BL	BL	BL	BL	BL
107	Silver Metal Spring	BL	BLot	BL	BL	N/A
108	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
109	Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
110	Wire Internal Metal Wire	BL	BL	BLO	BL	N/A
111	Red Plastic Plug-In	BL	BL	BL	BL	BL
112	Silver Metal Terminal	BL	BL	BL	BL	N/A
113	Plastic Button Substrate	BL	BL	BL	BL®	BL
114	Silver Metal Sheet	BL	BL	BL	Х	N/A
115	Red Coating	BL	BL	BL	BL	BL
116	Plastic Button Substrate	BL	BL	BL	BL	BL®
117	White Soft Plastic	BL	BL	BL	BL	BL
118	Silver Metal Case (USB)	BL	BL	BL	BL	N/A
119	Internal Purple Plastic	BL	BL	BL	BL	BL
120	Gold Metal Needle	BL	BL	BL	BL	N/A

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Seq.	Tooted Dout(o)	Results				
No.	Tested Part(s)	Pb	Pb Cd Hg Cr			
121	White Plastic Skin	BL	BL	BL (BL	BL
122	Black Plastic Wire Outer Skin	BL	BL	BL	BL	BL
123	Red Plastic Wire Outer Skin	BL	BL	BL	BL	BL
124	White Plastic Wire Outer Skin	BL	BL	BL	BL	BL
125	Wire Internal Metal Wire	BL	BL	BL	BL	N/A
126	White Soft Plastic	BL	BL	BL	BL	BL
127	Silver Metal Case (Micro)	BL	BL	BL	X	N/A
128	Internal Purple Plastic	BL	BL	BL	BL	BL
129	Black Plastic Sheet	BL	BL	BL	BL	BL
130	Silver Metal Spring	BL	BL	BLO	X	N/A

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Remark:

(1) Results were obtained by XRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-Vis (for Cr(VI)) and GC-MS (for PBBs, PBDEs) are recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013.

Element	Unit	Non-metal	Metal	Composite Material
Cd	mg/kg	BL≤70-3σ< X <130+3σ≤OL	BL≤70-3σ< X <130+3σ≤OL	BL≤50-3σ< X <150+3σ≤OL
Pb	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤ OL	BL≤500-3σ< X <1500+3σ≤OL
Hg	mg/kg	BL≤700-3σ< X <1300+3σ≤OL	BL≤700-3σ< X <1300+3σ≤OL	BL≤500-3σ< X <1500+3σ≤OL
Cr	mg/kg	BL≤700-3σ< X	BL≤700-3σ< X	BL≤500-3σ< X
Br	mg/kg	BL≤300-3σ< X	(D11) _ (D11)	BL≤250-3σ< X

Note:

BL = Below Limit
OL = Over Limit
X = Inconclusive
N/A = Not Applicable

(2) The XRF screening test for RoHS elements – The reading may be different to the actual content in the sample be of non-uniformity composition.



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(3) The maximum permissible limit is quoted from the document 2011/65/EU and its amendment directives 2015/863/EU:

RoHS Restricted Substances	Maximum Concentration Value (mg/kg) (by weight in homogenous materials)						
Cadmium (Cd)	≤100						
Lead (Pb)	≤1000						
Mercury (Hg)	≤1000						
Hexavalent Chromium (Cr(VI))	≤1000						
Polybrominated biphenyls (PBBs)	≤1000						
Polybrominate ddiphenylethers (PBDEs)	≤1000						
Di-2-ethylhexyl phthalate (DEHP)	≤1000						
Benzyl-n-butyl phthalate (BBP)	(p) ≤1000 (p)						
Di-n-butyl phthalate (DBP)	≤1000						
Di-iso-butyl phthalate (DIBP)	≤1000						

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2. The Test Results of Chemical Method:

Test method:

Lead, Cadmium, Mercury Content:

With reference to IEC 62321-5:2013 and IEC 62321-4:2013+AMD1:2017, by acid digestion and analysis was performed by Inductively Coupled Plasma- Optical Emission Spectrophotometer (ICP-OES)

Hexavalent Chromium Content (For metal material):

With reference to IEC 62321-7-1:2015, by boiling-water-extraction and analysis was performed by UV-visible spectrophotometer (UV-Vis)

Hexavalent Chromium Content (For non-metal material):

With reference to IEC 62321-7-2:2017, by alkaline digestion and analysis was performed by UV-visible spectrophotometer (UV-Vis)

PBBs & PBDEs Content:

With reference to IEC 62321-6:2015, by solvent extraction and analysis was performed by gas chromatographic/ mass spectrometer (GC-MS)

DEHP, BBP, DBP&.DIBP content:

With reference to IEC 62321-8:2017 by solvent extraction and analysis was performed by gas chromatographic -mass spectrometer (GC-MS)



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1) The test results of Cr (VI)

Item	11	MDI			Results			1
	Unit	MDL	2	20	27	29	49	Limit
Hexavalent Chromium (Cr (VI)) (Metal material)	μg/cm²	1	Negative	Negative	Negative	Negative	Negative	#
Conclusion	(gri)	/DTI	Pass	Pass	Pass	Pass	Pass	POTI

Item	~11!4	MDI			Results	_	_	1714
	Unit	MDL	56	58	103	114	127	Limit
Hexavalent Chromium (Cr (VI)) (Metal material)	μg/cm²	1	Negative	Negative	Negative	Negative	Negative	#
Conclusion	1	1	Pass	Pass	Pass	Pass	Pass	1

OTI OTI	OTI	(DTi)	DTI	(0)	Results	Til (DTI)	(DTI)
Item	Unit	MDL			130		Limit
Hexavalent Chromium (Cr (VI)) (Metal material)	μg/cm²	5TI) /	OTI	DTI	Negative	OTI	(F) #
Conclusion	/	/			Pass		/

Note:

- MDL = Method Detection Limit
- Negative= Sample Cr(VI) concentration is less than 0.10 μg/cm²
 Positive = Sample Cr(VI) concentration is greater than 0.13 μg/cm²
- #=

Positive indicates the presence of Cr(VI) on the tested areas and the test results are considered to be incompatible with Directive 2011/65/EU (RoHS) requirement.

Negative indicates the absence of Cr(VI) on the tested areas and the test results are considered to be consistent with Directive 2011/65/EU (RoHS) requirement.

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2) The test results of Pb

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lta	l lm:4	MDI	Results	Limeia
Item Unit		MDL	86	Limit
Lead(Pb)	mg/kg	2	19285^	≤1000
Conclusion	1	1	Pass	1
DTI) (DTI)	OTI	(DTI)	forth forth forth	orn orn

Note:

- ND = Not Detected
- MDL = Method Detection Limit
- mg/kg = ppm
- ^=According to the declaration from the client, Lead (Pb) in the sample is exempted by EU RoHS Directive 2011/65/EU based on 6(c): Copper alloy containing up to 4% (40000mg/kg) lead by weight.

(B)



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3) The test results of PBBs & PBDEs

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Mana	11:4	MDI		Results		1 ::4
Item	Unit	MDL	13	30	40	Limit
Polybrominated Biphenyls (PBBs)		•		,		
Monobromobiphenyl	mg/kg	5	ND	ND	ND	1
Dibromobiphenyl	mg/kg	5	ND	ND	ND	1
Tribromobiphenyl	mg/kg	015	ND	MD (ND ND	OTI
Tetrabromobiphenyl	mg/kg	5	ND	ND	ND	Ĩ
Pentabromobiphenyl	mg/kg	5	ND	ND	ND	1
Hexabromobiphenyl	mg/kg	5	ND	ND	ND	
Heptabromobiphenyl	mg/kg	5	ND (D)	ND	ND	(0)
Octabromobiphenyl	mg/kg	5	ND	ND	ND	1
Nonabromodiphenyl	mg/kg	5	ND	ND	ND	1
Decabromodiphenyl	mg/kg	5	ND	ND	©TO ND (©	1 (2)
Total content	mg/kg	1	ND	ND	ND	≤1000
Polybrominated Diphenylethers (PBI	DEs)(Mon	-Deca)				
Monobromodiphenyl ether	mg/kg	5 5	DIND	ND OT	ND	(DT)
Dibromodiphenyl ether	mg/kg	5	ND	ND	ND	1
Tribromodiphenyl ether	mg/kg	5	ND	ND	ND	1
Tetrabromodiphenyl ether	mg/kg	5	ND ND	ND	ND	OTI) /
Pentabromodiphenyl ether	mg/kg	5	ND	ND	ND	1
Hexabromodiphenyl ether	mg/kg	5	ND	ND	ND	1
Heptabromodiphenyl ether	mg/kg	5	ND	ND	ND	1
Octabromodiphenyl ether	mg/kg	5	ND	ND	ND (Q)	101
Nonabromodiphenyl ether	mg/kg	5	ND	ND	ND	
Decabromodiphenyl ether	mg/kg	5	ND	ND	ND	1
Total content	mg/kg	1	OTI ND OT	ND (při)	ND	≤1000
Conclusion	1	1	Pass	Pass	Pass	1

Note:

- ND = Not Detected
- mg/kg = ppm
- MDL = Method Detection Limit



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4) The test results of DEHP, BBP, DBP & DIBP

	16	Unit	Luit MDI		Results						
77	Item	Unit	MDL	1	3	4	5	6	Limit		
	Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000		
	Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000		
	Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND (g	ND ND	ND	ND	≤1000		
	Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000		
	Conclusion	/	1	Pass	Pass	Pass	Pass	Pass	1		
0	il gil gil gil	(p)	3	071)	(DTI)	DTI	(571)	(071)		

Item	Unit	MDL			Limit			
item	Unit	IVIDE	7	9	11	13	15	Limit
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND®	ND	ND	ND	ND®	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Conclusion	/	1	Pass	Pass	Pass	Pass	Pass	/

		nit MDL						
Item	Unit		16	17	21	24	26	Limit
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Conclusion	1	/	Pass	Pass	Pass	Pass	Pass	1

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ord (ord (ord (or	11	it MDI	DTI	OTH	Results			Limit	
Item	Unit	MDL	28	30	32	33	34	Limit	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000	65
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000	(h
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000	
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND 🧑	ND	ND	ND	≤1000)
Conclusion	1	1	Pass	Pass	Pass	Pass	Pass	/	

il oril oril oril	(DT)	OTI	DTI	Results) (oril	OTI
Item	Unit	MDL	37	38	40	42	43	Limit
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Conclusion	1	1	Pass	Pass	Pass	Pass	Pass	1

oril con oril	Unit	MDL	D		OTI)			
ltem			44	45	48	50	51	Limit
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	③ 30	ND	ND	ND	ND	ND	≤1000
Conclusion	1	1	Pass	Pass	Pass	Pass	Pass	1

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ord ord ord or	11	t MDL	OTH	OTI	Results	71)	(DTI)	Limit	
ltem	Unit		52	53	54	55	57		
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000	65
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000	(1)
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000	
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000	
Conclusion	1	1	Pass	Pass	Pass	Pass	Pass	/	

il (oril (oril (oril	IIII MDI	Results					DTI	
ltem	Unit	MDL	59	60	61	62	63	Limit
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	51/30	ND	ND	ND	ND	ND	≤1000
Conclusion	1	/	Pass	Pass	Pass	Pass	Pass	/

oril moril oril	Unit	MDL	0		OTI)			
ltem	Oilit		64	66	67	68	69	Limit
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	③ 30	ND	ND	ND	ND	ND	≤1000
Conclusion	1	1	Pass	Pass	Pass	Pass	Pass	1

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orn (orn (orn (or	9	MDI	OTH	OTH	Results	71)	(DTI)	(D)	
Item	Unit	MDL	71	73	77	78	80	Limit	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000	61
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000	10
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000	
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000)
Conclusion	/	1	Pass	Pass	Pass	Pass	Pass	/	1

il oril oril oril	(DT)	OTI	DTI	Results) (oril	OTI
Item	Unit	MDL	82	83	84	85	87	Limit
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Conclusion	1	1	Pass	Pass	Pass	Pass	Pass	1

ori world ori	Oril	MDI (D)	0	Results				
ltem	Unit	MDL	88	89	91	95	97	Limit
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	③ 30	ND	ND	ND	ND	ND	≤1000
Conclusion	1	1	Pass	Pass	Pass	Pass	Pass	1

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orn (orn (orn (or	9	(671)		OTH	Results	71)	(DTI)	OTI	
ltem	Unit	MDL	98	100	105	106	108	Limit	
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000	65
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000	(1)
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000	
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND (ND	ND	ND	≤1000	
Conclusion	/	1	Pass	Pass	Pass	Pass	Pass	/	

il oril oril oril	OT)	OTI	OTI	Results) (orii	OTI
Item	Unit	MDL	109	111	113	115	116	Limit
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Conclusion	1	1	Pass	Pass	Pass	Pass	Pass	1

ori u ori	(při)	MDI (01	0		Results			OTI
Item	Unit	MDL	117	119	121	122	123	Limit
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	③ 30	ND	ND	ND	ND	ND	≤1000
Conclusion	1	1	Pass	Pass	Pass	Pass	Pass	1

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on on on	l luit	MDI	DTI	(DTI) Res	ults		(DTI)
ltem	Unit	MDL	124	126	128	129	Limit
Di-2-ethylhexyl phthalate (DEHP)	mg/kg	30	ND	ND) ND	ND ND	≤1000
Benzyl-n-butyl phthalate (BBP)	mg/kg	30	ND	ND	ND	ND	≤1000
Di-n-butyl phthalate (DBP)	mg/kg	30	ND	ND	ND	ND	≤1000
Di-iso-butyl phthalate (DIBP)	mg/kg	30	ND	ND	ND	ND	≤1000
Conclusion	1	1	Pass	Pass	Pass	Pass	/

Note:

- ND = Not Detected
- 0.1%=1000mg/kg
- mg/kg = ppm
- MDL = Method Detection Limit
- Decision rule: According to DTI-CX-39-2022 《Decision rule for conformity of the test results》
- Flow chart appendix is included.
- Photo appendix is included.

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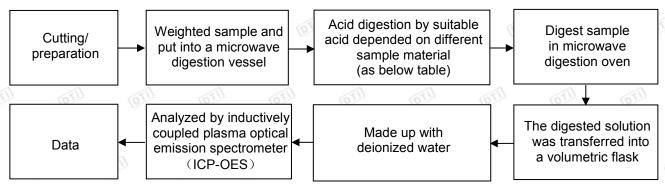
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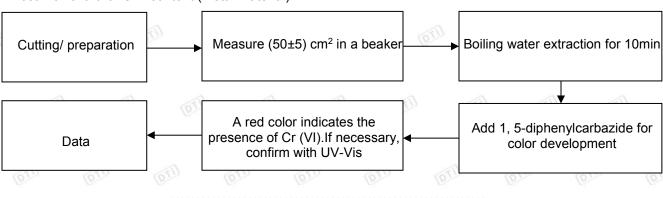
Appendix I

Test Flow chart

Test Flowchart for Cd / Pb /Hg content
 These samples were dissolved totally by pre-conditioning method according to below flow chart.



2. Test Flowchart for Cr6+ content (Metal material)





REPORT No.: DTI20246694 Date: 2024-12-04 Page 22 of 29 Test Flowchart for Cr⁶⁺ content (Non-metal material) Adjust the pH of Weighted sample Add digestion solution and extracted solution to Cutting/ heat in constant temperature and put into a 7.5 ± 0.5 and transfer preparation conical flask shaking water baths into a volumetric flask Made up with Analyzed by UV-vis Adjust the pH to 2.0 ± 0.5 and deionized water; add Data (540nm) make up with deionized water Diphenylcarbazide solution Test Flowchart for PBBs & PBDEs content Add organic solvent and Weight sample and Concentrated/ Cutting/ extracted by place in a thimble dilute extracted solution preparation Ultrasonic method Cool, cleanup solution Concentrated extracted Make up with organic solvent ◀ Data Analyzed by GC-MS ◀ solution Test Flowchart for DEHP, BBP, DBP & DIBP content Add organic solvent and Concentrated/ Cutting/ Weight sample and extracted by dilute extracted solution preparation place in a thimble Ultrasonic method Cool, cleanup solution Concentrated extracted Analyzed by GC-MS Make up with organic solvent ◀ Data solution



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Table:

Sample material	Digestion Acid
Steel, copper, aluminum, solder	Aqua regia, HNO ₃ , HCI, HF, H ₂ O ₂
Glass	HNO ₃ /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO ₃
Plastic	H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCl
Others	Any acid to total digestion



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Appendix II

Photograph of Sample

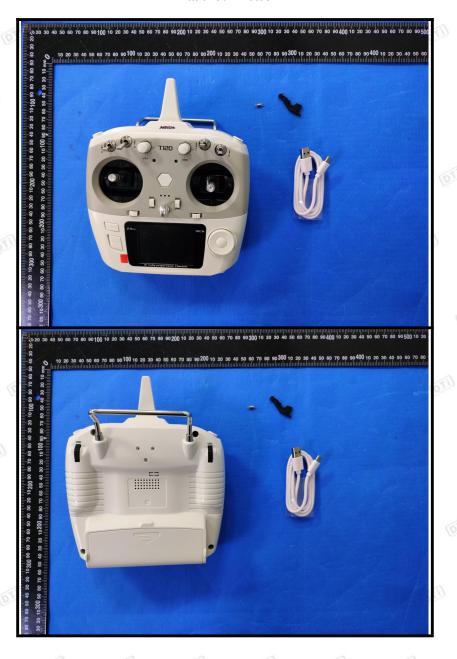


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Attached Photos



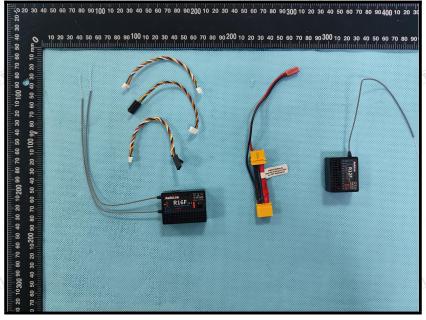
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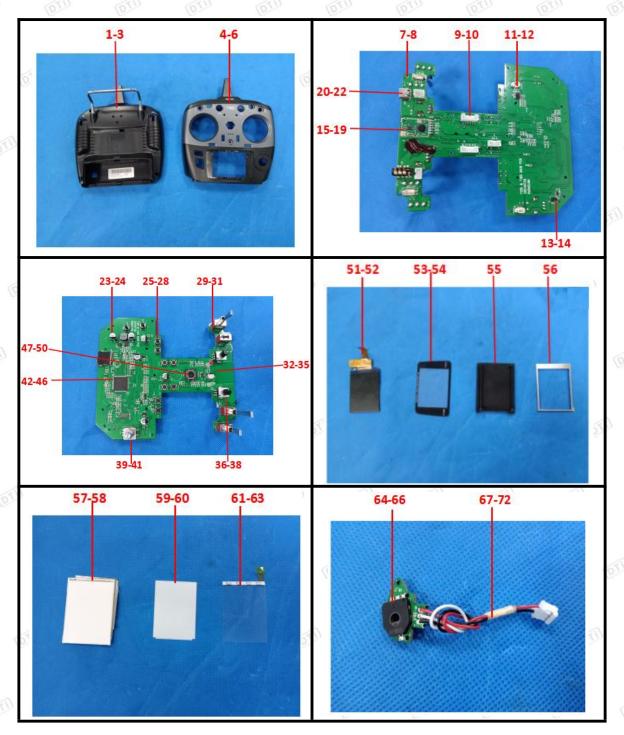
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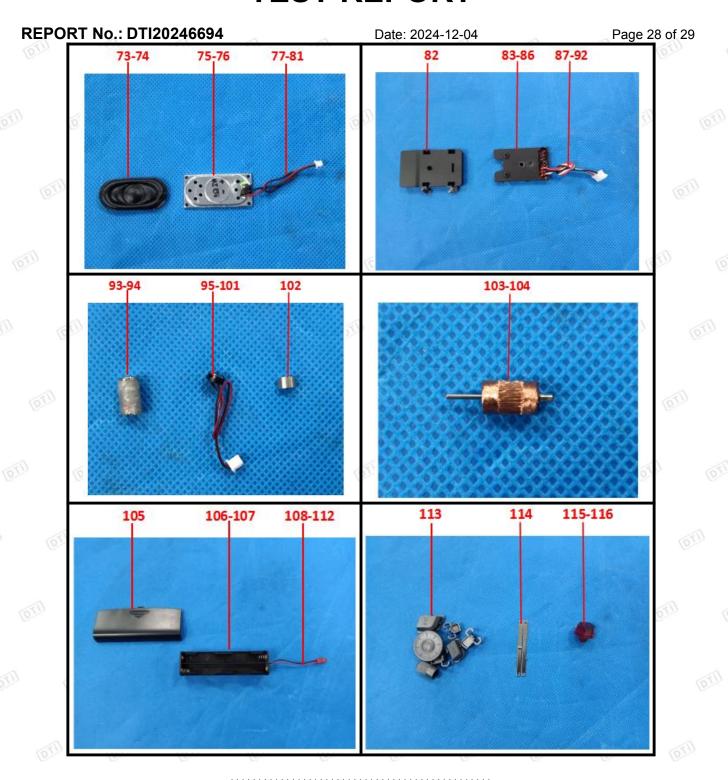


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*** End of Report ***

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