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Report No.: HA0119091461CH	HEM	Date: September 2	20, 2019	Page 1 of 15
Applicant	:			
Address	77			
Manufacture	:			
Address	:			
The following samples were su	ubmitted and ide	ntified by/on behalf of	the client as:	
Sample Description	: Flash light			
Model No.	4 F			
Date of Sample Received	: September	12, 2019		
Sample Testing Date	: September	12, 2019 to Septemb	oer 20, 2019	

TEST REPORT

Test Requested	In accordance with the RoHS Directive 2011/65/EU and amend Directive (EU) 2015/863.
Test Method	<ul> <li>With reference to IEC 62321-2:2013, disassembly, disjointment and sample preparation were performed.</li> <li>With reference to IEC 62321-3-1:2013, screening by EDXRF Spectroscopy.</li> <li>With reference to IEC 62321-5:2013, determination of Lead, Cadmium by ICP-OES.</li> <li>With reference to IEC 62321-4:2013, determination of Mercury by ICP-OES.</li> <li>With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.</li> <li>With reference to IEC 62321-7-2:2017 &amp; IEC 62321-7-1:2015, determination of Hexavalent Chromium by spot test/Colorimetric using UV-Vis.</li> <li>With reference to IEC 62321-8:2017, determination of Diisobutyl phthalate(DIBP), Dibutyl phthalate(DBP), Benzylbutyl phthalate(BBP) and Bis(2-ethylhexyl) phthalate (DEHP) by GC-MS.</li> </ul>
Test Result	Please refer to next pages.
Test Conclusion	Based on the performed tests on the submitted samples, the results <b>comply with</b> the RoHS Directive 2011/65/EU and amend Directive (EU) 2015/863.

\*\*\*\*\*\*\*\* For Further Details, Please Refer to the Following Page(s) \*\*\*\*\*\*\*

Compiled by:

Kevin Cheng / Project Engineer

by: Milse Xie Laboratory Superviser



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The main instrument and equipment								
No.	Equipment Name	Model No.	Calibration date	The use $()$				
HA03018-01	EDXRF Spectroscopy	EDX1800BS	2019.02.22-2020.02.22	$\checkmark$				
HA03003-01	ICP-OES	ICP-710ES	2019.02.22-2020.02.22	V				
HA03004-01	UV-Vis	TU-1810DPC	2019.02.22-2020.02.22	$\checkmark$				
HA03006-02	GC-MS	TRACE GC/ISQ	2019.02.22-2020.02.22	$\checkmark$				
HA03009-01	MDS	MDS-10	2019.02.22-2020.02.22	~				



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Sample Disassembly List							
Dont No.		Parts/Raw material name					
Part No.	Component Name	Part Description					
1	NT <sup>E</sup>	Black metal parts					
2	Y** 7	Silver metal shell					
3	h sh	Black rubber button					
4		White plastic parts					
5		Black rubber seal					
6	Casing parts	Yellow metal spring					
7		Brown metal parts					
8	1 1	White plastic wafer					
9	r ster	Transparent plastic lamp shade					
10	W 7	White rubber switch					
11	h sh	Yellow metal switch					
12	JNTE.	White plastic plug case					
13		Silver metal core					
14	h jeh	White plastic leather					
15	WAL P	Pink plastic leather					
16	Mire perte	White plastic leather					
17	Wire parts	Blue rubber leather					
18	Hr. P	Red rubber leather					
19	IL ML	Silver metal plug housing					
20	NE	Black plastic plug inner core					
21	Y Y	White plastic plug inner core					
22	h sh	Silver metal PCB board					
23	DCP board parts	SMD LED					
24	PCB board parts	Black plastic switch					
25	h seh	Silver metal square					



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Sample Disassembly List						
	Parts/Raw material name					
Component Name	Part Description					
	Silver foil					
	Soldering					
	Silver metal spring					
	Silver metal plug housing					
	Black plastic plug inner core					
PCB board parts	SMT triode					
	Patch diode					
	SMD resistor					
	IC					
	Patch capacitance					
	Green PCB board					
h set	Blue plastic battery case					
	Silver metal shell					
	Ferrous metal shell					
Other parts	Transparent plastic lamp shade					
	Black plastic rope					
	Black plastic rope buckle					
	Black plastic rope					
	Component Name PCB board parts					



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Part DescriptionProvide Secree Ining Inin	Screening Test by XRF Spectroscopy											
No.Part DescriptionPbscree ningCdscree ningHgscree ningCrscree ningBr1Black metal partsN.D.BLN				)	(mg/kg	Result	F					Part
2Silver metal shellN.D.BLN	r scree ning	Br		Cr		Hg		Cd		Pb	Part Description	
3Black rubber buttonN.D.BL			BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Black metal parts	1
AWhite plastic partsN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.M.D.5Black rubber sealN.D.BLN			BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Silver metal shell	2
5Black rubber sealN.D.BLN.D.BLN.D.BLN.D.BLN.D.M.D.6Yellow metal springN.D.BLN	D. BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Black rubber button	3
A Yellow metal springN.D.BLN.D.	D. BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	White plastic parts	4
7Brown metal partsN.D.BLN.	D. BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Black rubber seal	5
8White plastic waferN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.M.D.9Transparent plastic lamp shadeN.D.BLN.D. <td></td> <td></td> <td>BL</td> <td>N.D.</td> <td>BL</td> <td>N.D.</td> <td>BL</td> <td>N.D.</td> <td>BL</td> <td>N.D.</td> <td>Yellow metal spring</td> <td>6</td>			BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Yellow metal spring	6
9Transparent plastic lamp shadeN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.10White rubber switchN.D.BL			BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Brown metal parts	7
9ShadeN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.10White rubber switchN.D.BLN.D.ID.	D. BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	White plastic wafer	8
11Yellow metal switchN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.AL <th< td=""><td>D. BL</td><td>N.D.</td><td>BL</td><td>N.D.</td><td>BL</td><td>N.D.</td><td>BL</td><td>N.D.</td><td>BL</td><td>N.D.</td><td></td><td>9</td></th<>	D. BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.		9
12White plastic plug caseN.D.BL <td>D. <b>BL</b></td> <td>N.D.</td> <td>BL</td> <td>N.D.</td> <td>BL</td> <td>N.D.</td> <td>BL</td> <td>N.D.</td> <td>BL</td> <td>N.D.</td> <td>White rubber switch</td> <td>10</td>	D. <b>BL</b>	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	White rubber switch	10
13Silver metal coreN.D.BLN.D.BLN.D.BLN.D.BLN.D.14White plastic leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.15Pink plastic leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.16White plastic leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.17Blue rubber leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.18Red rubber leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.19Silver metal plug housingN.D.BLN.D.BLN.D.BLN.D.BLN.D.20Black plastic plug inner coreN.D.BLN.D.BLN.D.BLN.D.BLN.D.21White plastic plug inner coreN.D.BLN.D.BLN.D.BLN.D.BLN.D.22Silver metal PCB boardN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.			BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Yellow metal switch	11
14White plastic leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.15Pink plastic leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.16White plastic leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.17Blue rubber leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.18Red rubber leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.19Silver metal plug housingN.D.BLN.D.BLN.D.BLN.D.BLN.D.20Black plastic plug inner coreN.D.BLN.D.BLN.D.BLN.D.BLN.D.21White plastic plug inner coreN.D.BLN.D.BLN.D.BLN.D.BLN.D.22Silver metal PCB boardN.D.HN.D.BLN.D.BLN.D.BLN.D.BL	D. <b>BL</b>	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	White plastic plug case	12
15Pink plastic leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.16White plastic leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.17Blue rubber leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.18Red rubber leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.19Silver metal plug housingN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.20Black plastic plug inner coreN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.21White plastic plug inner coreN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.22Silver metal PCB boardN.D.HN.D.HN.D.HN.D.HInter	<i>i</i>	<u>_</u> th	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Silver metal core	13
16White plastic leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.17Blue rubber leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.18Red rubber leatherN.D.BLN.D.BLN.D.BLN.D.BLN.D.19Silver metal plug housingN.D.BLN.D.BLN.D.BLN.D.BLN.D.20Black plastic plug inner coreN.D.BLN.D.BLN.D.BLN.D.BLN.D.21White plastic plug inner coreN.D.BLN.D.BLN.D.BLN.D.BLN.D.22Silver metal PCB boardN.D.HN.D.HN.D.HN.D.HN.D.	D. <b>BL</b>	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	White plastic leather	14
17Blue rubber leatherN.D.BL <th< td=""><td>D. <b>BL</b></td><td>N.D.</td><td>BL</td><td>N.D.</td><td>BL</td><td>N.D.</td><td>BL</td><td>N.D.</td><td>BL</td><td>N.D.</td><td>Pink plastic leather</td><td>15</td></th<>	D. <b>BL</b>	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Pink plastic leather	15
18Red rubber leatherN.D.BL	D. BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	White plastic leather	16
19Silver metal plug housingN.D.BLN.D.BLN.D.BLN.D.20Black plastic plug inner coreN.D.BLN.D.BLN.D.BLN.D.BLN.D.21White plastic plug inner coreN.D.BLN.D.BLN.D.BLN.D.BLN.D.22Silver metal PCB boardN.D.BLN.D.BLN.D.BLN.D.BLN.D.	D. <b>BL</b>	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Blue rubber leather	17
20Black plastic plug inner coreN.D.BLN.D.BLN.D.BLN.D.21White plastic plug inner coreN.D.BLN.D.BLN.D.BLN.D.BLN.D.22Silver metal PCB boardN.D.BLN.D.BLN.D.BLN.D.BLN.D.BLN.D.	D. BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Red rubber leather	18
21       White plastic plug inner core       N.D.       BL       N.D.		E.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Silver metal plug housing	19
22       Silver metal PCB board       N.D.       BL       N.D.       BL       N.D.       BL       N.D.       BL       N.D.       BL       N.D.	D. BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Black plastic plug inner core	20
	D. BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	White plastic plug inner core	21
			BL	N.D.	BL	N.D.	BL	N.D.	BL<	N.D.	Silver metal PCB board	22
23 SIVID LED N.D. BL N.D. BL N.D. BL N.D. BL			BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	SMD LED	23
24 Black plastic switch N.D. BL N.D. BL N.D. BL N.D. BL N.D. BL N.D.	D. BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	Black plastic switch	24



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	Screening Test by XRF Spectroscopy										
Part					F	Result	(mg/kg	)			
No.	Part Description	Pb	scree ning	Cd	scree ning	Hg	scree ning	Cr	scree ning	Br	scree ning
25	Silver metal square	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL		
26	Silver foil	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL		\
27	Soldering	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	776	
28	Silver metal spring	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL		
29	Silver metal plug housing	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL		
30	Black plastic plug inner core	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL
31	SMT triode	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL		、
32	Patch diode	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL		
33	SMD resistor	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	<u> </u>	
34	IC	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL		\
35	Patch capacitance	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL		
36	Green PCB board	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL
37	Blue plastic battery case	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL
38	Silver metal shell	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	J.	
39	Ferrous metal shell	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL		
40	Transparent plastic lamp shade	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL
41	Black plastic rope	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL
42	Black plastic rope buckle	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL
43	Black plastic rope	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL	N.D.	BL

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#### Remark:

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- 1. BL= Below Limit, OL= Over Limit, LOD = Limit of Detection, --- = Not Regulated, / = Not Tested
- "IN" expresses the inconclusive region, and further chemical testing to confirm whether it complies with the requirement of RoHS Directive.
- 3. mg/kg= milligram per kilogram.
- The XRF screening test for RoHS elements the reading may be different to the actual content in the sample be of non-uniformity composition.
- 5. N.D. = Not Detected, less than the value of Method Detection Limit.
- Results are obtained by EDXRF for primary screening, and further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for Cr(VI)) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration exceeds the below warning value according to IEC 62321-3-1:2013 (unit: mg/kg)

Element	Polymer	Metal	Composite Materials
Cd	BL ≤ (70-3σ) < IN < (130+3σ) ≤ OL	$BL \le (70-3\sigma) < IN < (30+3\sigma)$ $\le OL$	LOD < IN < (150+3σ) ≤ OL
Pb	BL ≤ (700-3σ) < IN < (1300+3σ) ≤ OL	BL ≤ (700-3σ) < IN < (1300+3σ) ≤ OL	BL ≤ (500-3σ) < IN < (1500+3σ) ≤ OL
Hg	BL ≤ (700-3σ) < IN < (1300+3σ) OL	BL ≤ (700-3σ) < IN < (1300+3σ) ≤ OL	BL ≤ (500-3σ) < IN < (1500+3σ) ≤ L
Cr	BL ≤ (700-3σ) < IN	BL ≤ (700-3σ) <in< td=""><td>BL ≤ (500-3σ) &lt; IN</td></in<>	BL ≤ (500-3σ) < IN
Br	BL ≤ (300-3σ) < IN		BL ≤ (250 3σ) < IN



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Part	Part Result (mg/kg)							
No.	Part Description	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs	Conclusior
MDL		2	2	2	2^	2	2	
1	Black metal parts	/	1	/	1		1	Р
2	Silver metal shell	MLI.	/	STAL.	/	1-		_/_P
3	Black rubber button	/	/	/	1	1		Р
4	White plastic parts	/	/	/	/	/	1	Р
5	Black rubber seal	×1	1	2hr	1	21-	1	el P
6	Yellow metal spring	/	$\langle \rangle \Gamma$	/				Р
7	Brown metal parts	1	/	1	/			Р
8	White plastic wafer	1		1	1<	T	/ <	Р
9	Transparent plastic lamp shade	/	1	/	×,	/		Р
10	White rubber switch	1	1	2/1	1		1	e P
11	Yellow metal switch	/	1V	1			144	Р
12	White plastic plug case	1	/	1	/	1	/	Р
13	Silver metal core	1	1	1	1<	8°	<	Р
14	White plastic leather	/	1	/	$\sim$	/	N/	Р
15	Pink plastic leather	11	/		/		/	Р
16	White plastic leather	1	$\langle \langle \langle \rangle \rangle$	1		1		Р
17	Blue rubber leather	/	1	/	1	/	1	Р
18	Red rubber leather	14	1		/		1	P
19	Silver metal plug housing	/	J.M	1				Р
20	Black plastic plug inner core	1	/	1	/	1	/	Р
21	White plastic plug inner core	1		27	/<	e T	./~	Р
22	Silver metal PCB board	/	1	/	1		<u>v:</u>	Р
23	SMD LED	1LI	/	14	/	14-		



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	Con	firmati	on Test	by Wet	Chemist	ry		
Part		Result (mg/kg)						
No.	Part Description	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs	Conclusion
MDL		2	2	2	2^	2	2	
24	Black plastic switch	1		1		1		Р
25	Silver metal square	/	/	1	/			Р
26	Silver foil	1	1	-1-	1			Р
27	Soldering	/		/			^ليدي	Р
28	Silver metal spring	1	/	1	/			Р
29	Silver metal plug housing	1		1	1<	er		Р
30	Black plastic plug inner core	/	1	/	Y	/		Р
31	SMT triode	ML.	/	AL	/	14		Р
32	Patch diode	1	1	1			2.77	Р
33	SMD resistor	/	/	/	/			Р
34	IC	261	1	2/1	1			Р
35	Patch capacitance	/	Nr.	/			144	Р
36	Green PCB board	1	/	1	/	1	/	Р
37	Blue plastic battery case	1	1	27	1	8T	1	Р
38	Silver metal shell	/	$\sim$	/			<u></u>	Р
39	Ferrous metal shell	1	/	1	/	NT.		Р
40	Transparent plastic lamp shade	1	$\sim$	1	15	1		Р
41	Black plastic rope	1	/	1	/	1	/	Р
42	Black plastic rope buckle	27	1	207	1	e r	1	Р
43	Black plastic rope	/		/		/	1	Р



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Limit requirements:						AL
55	Pb	Cd	Hg	Cr(VI)	PBBs	PBDEs
Maximum permissible Limit (mg/kg)	1000	100	1000	1000	1000	1000
Demon						

### Remark:

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- 1. N.D. = Not Detected, less than the value of Method Detection Limit.
- 2. mg/kg= milligram per kilogram.
- 3. MDL= Method Detection Limit in wet chemical test, --- = Not Regulated, / = Not Tested.
- 4. P =The result complies with the limit requirement, F =The result does not comply with the limit requirement.
- 5. "^"= MDL of Cr(VI) for non-metal sample is 2mg/kg, MDL of Cr(VI) for metal sample is 0.02mg/kg(Sample extraction solution).
- 6. Result on Cr(VI) for metal sample is shown as Positive/Negative. Positive = Presence of Cr(VI); Negative = Absence of Cr(VI). (Positive indicates the presence of Cr<sup>6+</sup> on the tested areas, the result be regarded as conflict with RoHS requirement. Negative indicates the absence of Cr<sup>6+</sup> on the tested areas, the result be regarded as no conflict with RoHS requirement.)



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# **TEST REPORT**

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	DIBP, DBP, BBP, DEHP									
Test No.	Result (mg/kg)									
Test NO.	Part No.	DIBP	DBP	BBP	DEHP	Conclusion				
MDL		30	30	30	30					
T01	3+5+10	N.D.	N.D.	N.D.	N.D.	Р				
T02	4+8+12	N.D.	N.D.	N.D.	N.D.	P				
T03	9+40	N.D.	N.D.	N.D.	N.D.	Р				
T04	14+15+16	N.D.	N.D.	N.D.	N.D.	Р				
T05	17+18	N.D.	N.D.	N.D.	N.D.	P				
T06	20+21+30	N.D. 🔨	N.D.	N.D.	N.D.	Р				
T07	24+36	N.D.	N.D.	N.D.	N.D.	Р				
T08	37	N.D.	N.D.	N.D.	N.D.	P				
T09	41+42+43	N.D.	N.D.	N.D.	N.D.	Р				

### Limit requirements:

12 12	DIBP	DBP	BBP	DEHP	5
Maximum permissible Limit	1000	1000	1000	1000	
(mg/kg)	1000	1000	1000	1000	

### Remark:

 DIBP= Diisobutyl phthalate, DBP= Dibutyl phthalate, BBP= Benzylbutyl phthalate, DEHP= Bis(2-ethylhexyl) phthalate

2. N.D. = Not Detected, less than the value of Method Detection Limit.

3. mg/kg= milligram per kilogram.

4. MDL= Method Detection Limit in wet chemical test.

 P =The result complies with the limit requirement, F =The result does not comply with the limit requirement.



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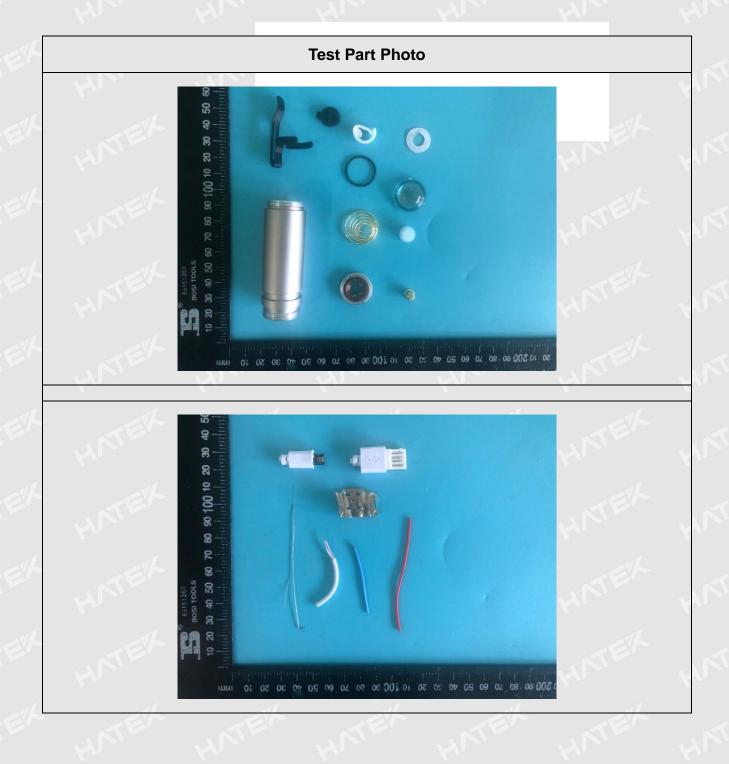


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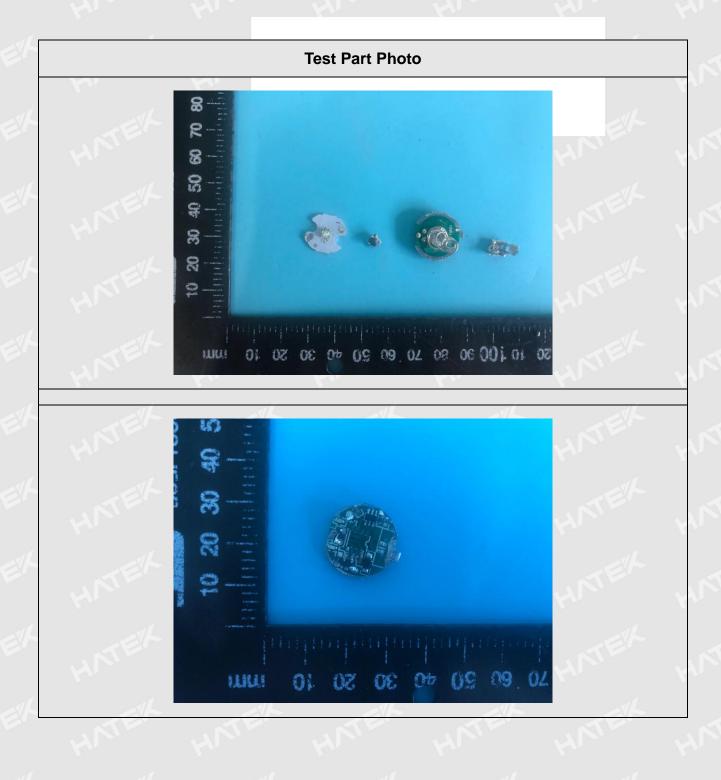
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