



TEST REPORT

Shenzhen Star Promotion Limited
No.3003,Chuangxing Da Business Buid, Liuxian 3rd Road,
Bao'An72th district, 518101 Shenzhen

Report No.: C60111943
UL Order No.: 12789640
Date: Apr. 3, 2019

Attn.: Freya Yin

SAMPLE DESCRIPTION	:	3 in 1 cable
STYLE/ITEM NO.	:	Not Provided
DATE CODE	:	Not Provided
PO NO.	:	Not Provided
COLOUR	:	White
APPLICANT	:	Shenzhen Star Promotion Limited
SUPPLIER	:	Not Provided
BUYER	:	CTWO PRODUCT AB
COUNTRY OF ORIGIN	:	China
EXPORTED TO	:	Europe
AGE GRADE	:	Adult
TESTING LOCATION	:	UL VS Shanghai Limited Shenzhen Branch
DATE RECEIVED SAMPLES	:	Mar 21 & Mar 27, 2019
DATE OF TEST	:	Mar 21, 2019 – Apr 03, 2019
RESULTS	:	Please refer to the following page(s)

CONCLUSION:

- | | | |
|----|---|------|
| 1. | Total Phthalates Content [ROHS Directive 2015/863/EU Amending Directive 2011/65/EU Annex II] | Pass |
| 2. | ROHS Directive 2011/65/EU Annex II
-Screening by X-ray fluorescence spectroscopy and confirmed by wet chemical method of Lead, Cadmium, Mercury, Chromium and Brominated flame retardants (PBB & PBDE) | Pass |

Notes: The results relate only to the items tested.

For and on behalf of
UL VS Shanghai Limited Shenzhen Branch

Eric Wu - Engineering Manager
(Hardlines Testing)
H

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SZ-FAF-001 (2017-10-12)



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TEST RESULTS

Tested Sample ID	Product Description / Sample Group Desc.
001	3 in 1 cable
002	White soft plastic (cord jacket) (From 001)
003	Matt white soft plastic (connect) (From 001)
004	Bright white plastic (shell of connect & plug casing) (From 001)
005	White plastic (USB plug) (From 001)
006	Black plastic (small plug) (From 001)
007	White soft plastic (small cord jacket) (From 001)
008	Red soft plastic (small cord jacket) (From 001)
009	Black soft plastic (small cord jacket) (From 001)
010	Green soft plastic (small cord jacket) (From 001)
011	Green PCB (inner plug casing) (From 001)

1. Total Phthalates Content [ROHS Directive 2015/863/EU Amending Directive 2011/65/EU Annex II]

Test Method: IEC 62321-8: 2017

Analyte	CAS No.	Requirement (Max.)	Reporting Limit	Sample, %
				002+003+004+005+006+007+008+009+010+011
Dibutyl Phthalate, DBP	84-74-2	0.1	0.005	<0.005
Benzyl Butyl Phthalate, BBP	85-68-7	0.1	0.005	<0.005
Diethylhexyl Phthalate, DEHP	117-81-7	0.1	0.005	<0.005
Diisobutyl Phthalate, DIBP	84-69-5	0.1	0.005	<0.005
Rating				PASS
<i>Remark:</i> -All concentrations expressed in percentage (%) -“<” means less than -Method for determination of Phthalates are determined by Gas Chromatography Mass Selective Detector (GC-MSD) -The test results only apply to the items tested.				

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2. ROHS DIRECTIVE 2011/65/EU ANNEX II -SCREENING BY X-RAY FLUORESCENCE SPECTROSCOPY AND CONFIRMED BY WET CHEMICAL METHOD OF LEAD, CADMIUM, MERCURY, CHROMIUM AND BROMINATED FLAME RETARDANTS (PBB & PBDE)

TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT (in mg/kg)	CHEMICAL TEST RESULT (in mg/kg)
1	1	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
2	2	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
3	3	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
4	4	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
5	5	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	

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6	6	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
7	7	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
8	8	All	XRF + Chemical	Cd: ND	Cr ⁶⁺ : Negative
				Cr: Inconclusive	
				Pb: ND	
				Hg: ND	
				Br: ND	
9	9	All	XRF + Chemical	Cd: ND	Cr ⁶⁺ : Negative
				Cr: Inconclusive	
				Pb: ND	
				Hg: ND	
				Br: ND	
10	10	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
11	11	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	

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12	12	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
13	13	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
14	14	All	XRF + Chemical	Cd ND	PBBs: N.D(<5.0) PBDEs: N.D(<5.0)
				Cr: ND	
				Pb: ND	
				Hg: ND	
				Br: Inconclusive	
15	15	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
16	16	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
17	17	All	XRF + Chemical	Cd: ND	Cr ⁶⁺ : Negative
				Cr: Inconclusive	
				Pb: ND	
				Hg: ND	
				Br: ND	

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18	18	All	XRF + Chemical	Cd: ND	PBBs: N.D(<5.0) PBDEs: N.D(<5.0)
				Cr: ND	
				Pb: ND	
				Hg: ND	
				Br: Inconclusive	
19	19	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
20	20	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
21	21	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
22	22	All	XRF + Chemical	Cd: ND	Cr ⁶⁺ : Negative
				Cr: Inconclusive	
				Pb: ND	
				Hg: ND	
				Br: ND	
23	23	All	XRF + Chemical	Cd: ND	Cr ⁶⁺ : Negative
				Cr: Inconclusive	
				Pb: ND	
				Hg: ND	
				Br: ND	

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24	24	All	XRF + Chemical	Cd: ND	Cr ⁶⁺ : Negative
				Cr: Inconclusive	
				Pb: ND	
				Hg: ND	
				Br: ND	
25	25	All	XRF + Chemical	Cd: ND	Cr ⁶⁺ : Negative
				Cr: Inconclusive	
				Pb: ND	
				Hg: ND	
				Br: ND	
26	26	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
27	27	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
28	28	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	
29	29	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	

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TESTED MATERIAL	SCHEME	TARGET RoHS SUBSTANCES	TEST METHOD USED	XRF RESULT (in mg/kg)	CHEMICAL TEST RESULT (in mg/kg)
30	30	All	XRF	Cd: N.D	N/T
				Cr: N.D	
				Pb: N.D	
				Hg: N.D	
				Br: N.D	

Remark: in the following pages in this report:

- RL = Reporting Limits
- N.D = Not Detected (<RL)
- Detected = below the lower screening limit of table (a) and pass
- Mg/kg = parts per million = ppm
- N/T = Not tested

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TEST METHODS:

- (1) Sample prepared with reference to IEC 62321-2 Ed1.0:2013 Determination of certain substances in electrotechnical products – Part 2: Disassembly, disjunction and mechanical sample preparation;
 - (2) Sample Screening testing with reference to IEC 62321-3-1 Ed1.0:2013 Determination of certain substances in electrotechnical products – Part 3-1: Screening – Lead, mercury, Cadmium, total chromium and total bromine using X-ray fluorescence spectrometry;
 - (a) It is the result on total Br while test item on restricted substances is PBBs/PBDEs. It is the result on total Cr while test item on restricted substances is Cr⁶⁺.
 - (b) Results are obtained by XRF for primary screening, and further chemical testing by ICP-OES(for Cd, Pb, Hg), UV-Vis(for Cr⁶⁺) and GC/MS(for PBBs, PBDEs) is recommended to be performed.
- XRF screening limits in mg/kg for regulated elements according to IEC 62321-3-1 Ed1.0:2013

ELEMENT	POLYMER	METALS	COMPOSITE MATERIAL
Cd	BL≤(70-3σ) <X<(130+3σ) ≤OL	BL≤(70-3σ) <X<(130+3σ) ≤OL	LOD < X < (150+3σ)≤ OL
Pb	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(500-3σ) <X<(1500+3σ) ≤OL
Hg	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(700-3σ) <X<(1300+3σ) ≤OL	BL≤(500-3σ) <X<(1500+3σ) ≤OL
Cr	BL≤(700-3σ) <X	BL≤(700-3σ) <X	BL≤(500-3σ) <X
Br	BL≤(300-3σ) <X	--	BL≤(250-3σ) <X

Note: BL = Below Limit, OL = Over Limit, LOD = Limit of Detection, -- = Not Regulated

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) Wet Chemical Test Method

TESTING ITEM	CHEMICAL TESTING METHOD	RL	LIMIT
Cd	With reference to IEC 62321-5 Ed1.0:2013, by acid digestion and determined by ICP-OES	2.0mg/kg	100mg/kg
Pb	With reference to IEC 62321-5 Ed1.0:2013, by acid digestion and determined by ICP-OES	2.0mg/kg	1000mg/kg
Hg	With reference to IEC 62321-4 Ed1.0:2013, by acid digestion and determined by ICP-OES	2.0mg/kg	1000mg/kg
Cr ⁶⁺ (for non metal)	With reference to IEC 62321:2008 Ed.1 Annex C, by alkaline digestion and determined by UV-VIS spectrophotometer	1.0mg/kg	1000mg/kg
Cr ⁶⁺ (for metal)	With reference to IEC 62321-7-1 Ed1.0:2015 by spot – test	/	/
PBBs Content	With reference to IEC 62321-6 Ed1.0:2015, by solvent extraction and determined by GC-MSD	5.0mg/kg	1000mg/kg
PBDEs Content	With reference to IEC 62321-6 Ed1.0:2015, by solvent extraction and determined by GC-MSD	5.0mg/kg	1000mg/kg

Note: According to IEC 62321-7-1 Ed1.0:2015, result on Cr⁶⁺ for metal sample is shown as Positive/Negative.

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TEST REPORT

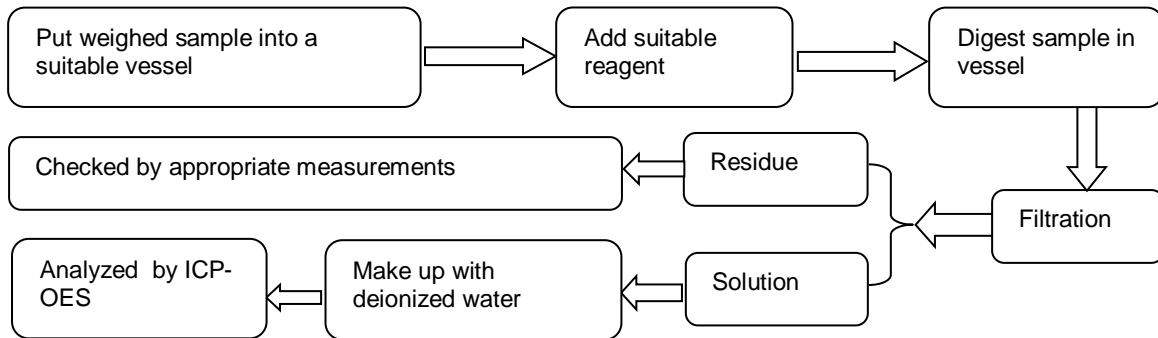
Shenzhen Star Promotion Limited
No.3003,Chuangxing Da Business Buid, Liuxian 3rd Road,
Bao'An72th district, 518101 Shenzhen

Report No.: C60111943
UL Order No.: 12789640
Date: Apr. 3, 2019

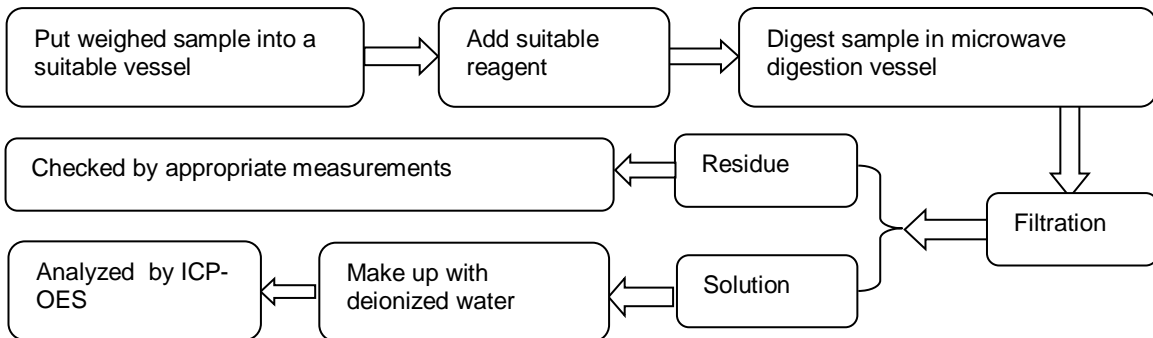
TEST RESULTS

TEST PROCESS

1. Test for Lead (Pb), Cadmium (Cd) contents(IEC 62321-5 Ed1.0:2013):



2. Test for Mercury (Hg) contents (IEC 62321-4 Ed1.0:2013):



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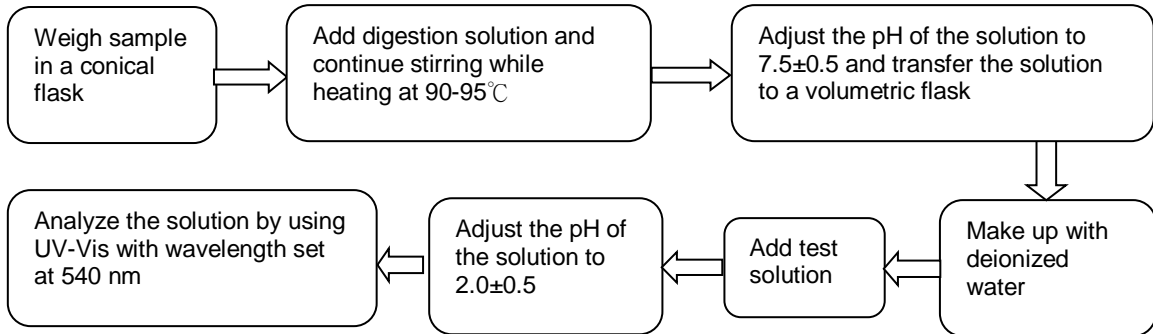
TEST REPORT

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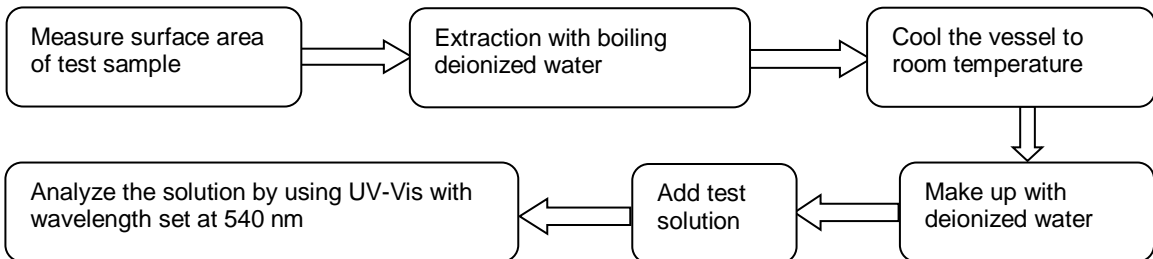
Report No.: C60111943
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TEST RESULTS

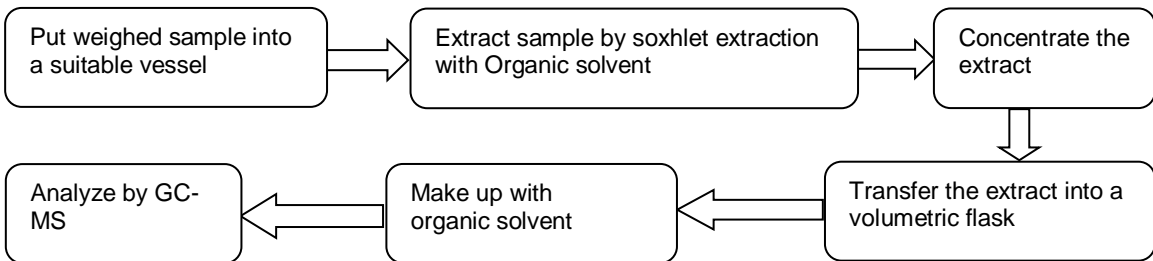
3. Test for Chromium (Cr(VI)) contents (IEC 62321:2008 Ed.1 Annex C):



4. Test for Chromium(Cr(VI)) contents (IEC 62321-7-1 Ed1.0:2015):



5. Test for PBBs & PBDEs contents (IEC 62321-6 Ed1.0:2015):



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TEST REPORT

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Report No.: C60111943
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Date: Apr. 3, 2019

TEST RESULTS

INFORMATION OF TEST SAMPLE

- (1) White plastic thick jacket
- (2) Black plastic thin jacket
- (3) Red plastic thin jacket
- (4) Green plastic thin jacket
- (5) White plastic thin jacket
- (6) Slivery metal wires
- (7) Slivery metal wires
- (8) Slivery metal wires
- (9) Slivery metal wires
- (10) White plastic shell
- (11) White soft plastic
- (12) White plastic shell
- (13) White soft plastic small plate
- (14) Green PCB board
- (15) Slivery metal plate
- (16) Black resistance
- (17) White plastic plate
- (18) Green PCB board
- (19) Black plastic plate
- (20) Slivery metal pin
- (21) Slivery metal solder
- (22) Slivery metal shell
- (23) Slivery metal plate
- (24) Slivery metal pin
- (25) Slivery metal shell
- (26) Black plastic plate
- (27) White plastic plate (inside)
- (28) White plastic plate
- (29) Slivery metal shell
- (30) Copper metal pin

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SZ-FAF-001 (2017-10-12)



TEST REPORT

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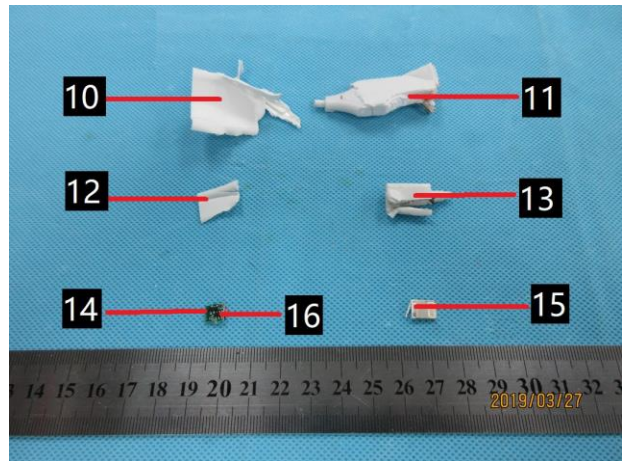
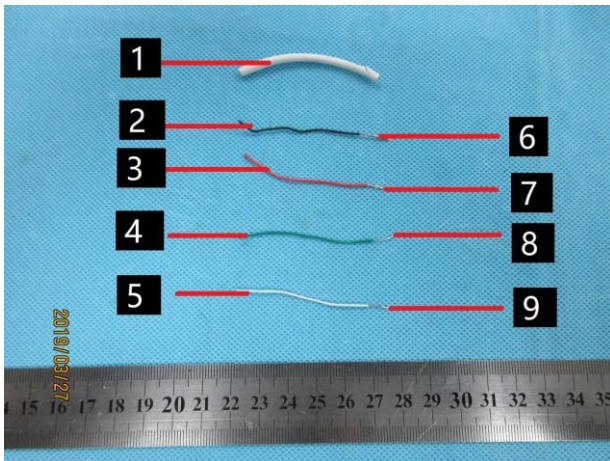
Report No.: C60111943
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Date: Apr. 3, 2019

TEST RESULTS

(II) Photo(s) of test sample(s):



(Whole product)



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SZ-FAF-001 (2017-10-12)

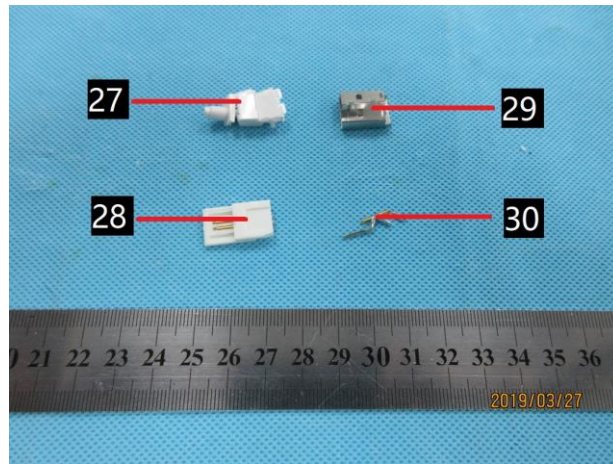
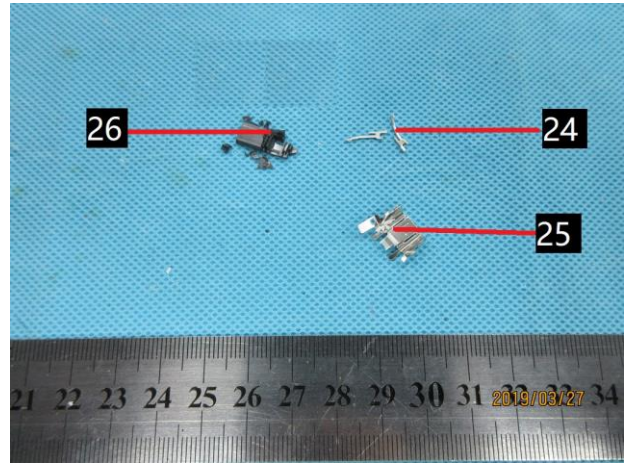
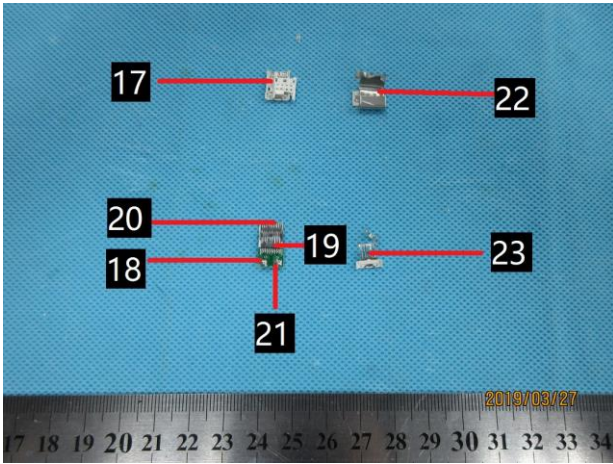


TEST REPORT

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Report No.: C60111943
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TEST RESULTS



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PRODUCT PHOTOS:



***** End of Report *****

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