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Shenzhen Center for Analysis and Measurement of Material Surface

Test Report

Report No.: SAC2017-08395E-R1

Date: Jan.16, 2018

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Customer :
Address :

Sample Information:

Sample Name : Charging Cable
Sample Description : Please refer to the following page(s).
Model/Style : MC09
Lot No. : /
Material : /
Buyer : /
Supplier : /
Manufacturer : /
Received Date : Dec.28, 2017
Test Period : Dec.28, 2017~Jan.16, 2018
Test Requested : As specified by customer, to screen Pb, Cd, Hg, Cr, Br content by XRF and test its accurate content with Chemical method.

Test Method:

Test Item(s)	Test Method	Equipment	MDL
Pb, Cd, Hg, Cr, Br	IEC 62321-3-1:2013	XRF	5mg/kg
Pb, Cd	IEC 62321-5:2013	ICP-OES	2mg/kg
Hg	IEC 62321-4:2013	ICP-OES	2mg/kg
Cr ⁶⁺	IEC 62321-7-1:2015	UV-Vis	0.10 µg/cm ²
PBBs, PBDEs	IEC 62321-6:2015	GC-MS	5mg/kg

Note: /

Test Result(s): Please refer to the following page(s).

Test Conclusion: To test according to the requirements of the customer, the test results of the sample shown in this report do not exceed the required limit of EU RoHS 2011/65/EU.

Edited by: ningo

Audited by: Jenny

Approved by: Allen



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Test Result(s):

No.	Sample Description	Test Items	Results of XRF (P/F/D)	Results of testing (mg/kg)	Limit (mg/kg)	Unit	Conclusion (P/F)
No.1	Silver metal ring	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ⁶⁺	P	/	—	μg/cm ²	P
		PBBs	/	/	≤1000	mg/kg	/
		PBDEs	/	/	≤1000	mg/kg	/
No.2	Silver magnet	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ⁶⁺	P	/	—	μg/cm ²	P
		PBBs	/	/	≤1000	mg/kg	/
		PBDEs	/	/	≤1000	mg/kg	/
No.3	USB white plastic case	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ^{6+*}	P	/	≤1000	mg/kg	P
		PBBs	P	/	≤1000	mg/kg	P
		PBDEs	P	/	≤1000	mg/kg	P
No.4	USB Golden touch point	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ^{6+*}	P	/	—	μg/cm ²	P
		PBBs	/	/	≤1000	mg/kg	/
		PBDEs	/	/	≤1000	mg/kg	/
No.5	Silver solder	Pb	D	N.D.	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ⁶⁺	P	/	—	μg/cm ²	P
		PBBs	/	/	≤1000	mg/kg	/
		PBDEs	/	/	≤1000	mg/kg	/
No.6	Copper metal line	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ^{6+*}	P	/	—	μg/cm ²	P
		PBBs	/	/	≤1000	mg/kg	/
		PBDEs	/	/	≤1000	mg/kg	/

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No.	Sample Description	Test Items	Results of XRF (P/F/D)	Results of testing (mg/kg)	Limit (mg/kg)	Unit	Conclusion (P/F)
No.7	Green metal line	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ⁶⁺ *	P	/	—	μg/cm ²	P
		PBBs	/	/	≤1000	mg/kg	/
		PBDEs	/	/	≤1000	mg/kg	/
No.8	Blue metal line	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ⁶⁺ *	P	/	—	μg/cm ²	P
		PBBs	/	/	≤1000	mg/kg	/
		PBDEs	/	/	≤1000	mg/kg	/
No.9	Red metal line	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ⁶⁺	P	/	—	μg/cm ²	P
		PBBs	/	/	≤1000	mg/kg	/
		PBDEs	/	/	≤1000	mg/kg	/
No.10	Gray wire	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ⁶⁺	P	/	≤1000	mg/kg	P
		PBBs	P	/	≤1000	mg/kg	P
		PBDEs	P	/	≤1000	mg/kg	P
No.11	Black transistor	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ⁶⁺	P	/	≤1000	mg/kg	P
		PBBs	P	/	≤1000	mg/kg	P
		PBDEs	P	/	≤1000	mg/kg	P
No.12	Yellow PCB	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ⁶⁺	P	/	≤1000	mg/kg	P
		PBBs	D	N.D.	≤1000	mg/kg	P
		PBDEs	D	N.D.	≤1000	mg/kg	P

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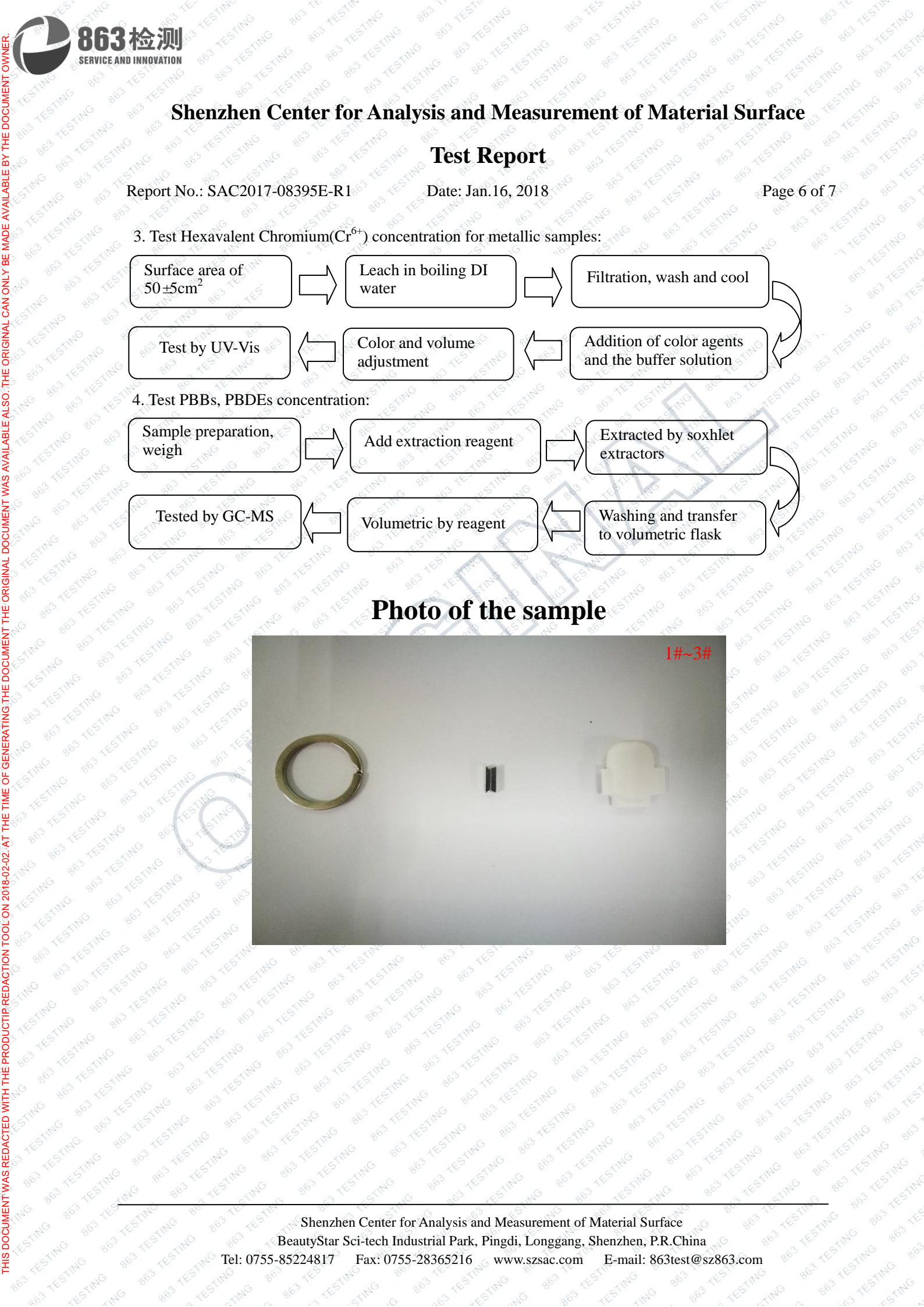
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No.	Sample Description	Test Items	Results of XRF (P/F/D)	Results of testing (mg/kg)	Limit (mg/kg)	Unit	Conclusion (P/F)
No.13	Silver pins	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ⁶⁺	P	/	—	μg/cm ²	P
		PBBs	/	/	≤1000	mg/kg	/
		PBDEs	/	/	≤1000	mg/kg	/
No.14	Chip resistors	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ⁶⁺	P	/	≤1000	mg/kg	P
		PBBs	P	/	≤1000	mg/kg	P
		PBDEs	P	/	≤1000	mg/kg	P
No.15	USB silver metal	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ⁶⁺	D	N.D.	—	μg/cm ²	P
		PBBs	/	/	≤1000	mg/kg	/
		PBDEs	/	/	≤1000	mg/kg	/
No.16	USB Black plastic	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ^{6+*}	P	/	≤1000	mg/kg	P
		PBBs	P	/	≤1000	mg/kg	P
		PBDEs	P	/	≤1000	mg/kg	P
No.17	USB White plastic	Pb	P	/	≤1000	mg/kg	P
		Cd	P	/	≤100	mg/kg	P
		Hg	P	/	≤1000	mg/kg	P
		Cr ^{6+*}	P	/	≤1000	mg/kg	P
		PBBs	P	/	≤1000	mg/kg	P
		PBDEs	P	/	≤1000	mg/kg	P

Remark:

- (1) It is the result on total Br while test PBBs and PBDEs by XRF. It is the result on total Cr while test Hexavalent Chromium by XRF.
- (2) Results are obtained by XRF for primary screening, and chemical testing by ICP-OES (for Pb, Cd, Hg), UV-Vis (for Cr⁶⁺) and GC-MS (for PBBs, PBDEs) is recommended to be performed, if the concentration



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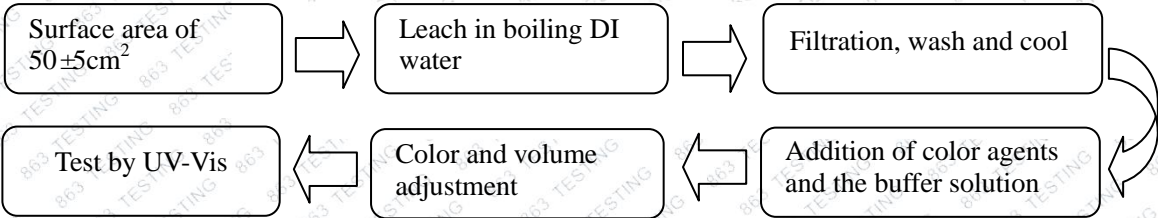
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3. Test Hexavalent Chromium(Cr⁶⁺) concentration for metallic samples:



4. Test PBBs, PBDEs concentration:

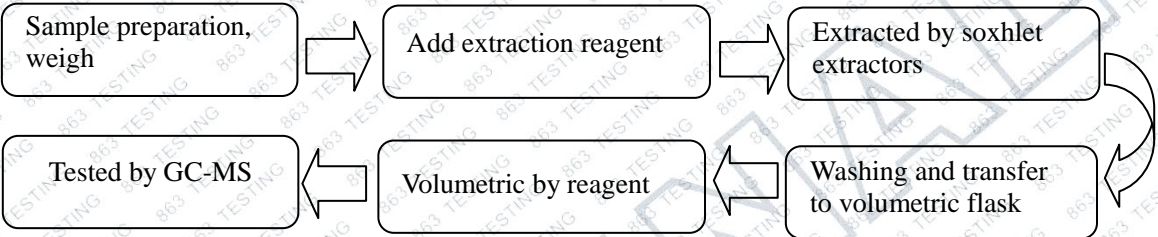


Photo of the sample



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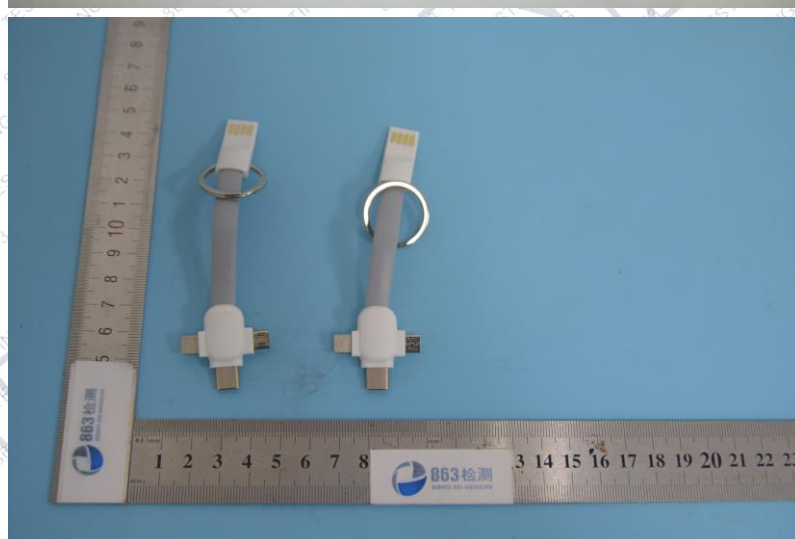
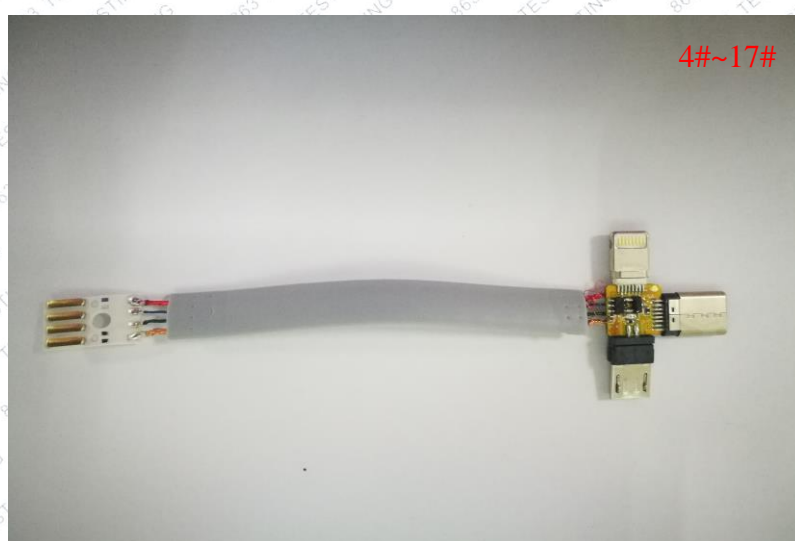
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*** End of report ***

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