Test Report

Applicant's name .....:	Shenzhen lingyike technology co., ltd
Address.....:	B127 Huitong Communication Market, Huaqiang North Street, Futian District, Shenzhen
Manufacturer .....:	Shenzhen lingyike technology co., ltd
Address.....:	B127 Huitong Communication Market, Huaqiang North Street, Futian District, Shenzhen
Trade Mark.....:	N/A
Test item description..... :	Car charger
Model/Type reference.....:	See page 2(model list)
Date of receipt of test item.....:	Apr. 01, 2023
Date(s) of performance of tests.....:	Apr. 01-07, 2023
Date of report.....:	Apr. 07, 2023

Test Requested:

1. As specified by client ,to screen Lead(Pb),Cadmium(Cd),Mercury(Hg), Chromium(Cr)and Bromine(Br)in the submitted sample(s)by XRF.
2. As specified by client ,when screening results exceed the XRF screening limit in IEC62321:2013 Edition 1.0,further use of wet chemical methods are required to test Lead(Pb),Cadmium(Cd),Mercury(Hg),Hexavalent Chromium(Cr(VI)),Polybrominated Biphenyls(PBBs),Polybrominated Diphenyl Ethers(PBDEs),Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) ,Butyl benzyl phthalate (BBP), Dibutylphthalate (DBP) ,and Diisobutyl phthalate (DIBP) in the submitted sample(s).

Test Results: PASS

Conclusion:

The test results comply with the limits of RoHS 2.0 Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of Lintek.

Guangdong Lintek Certification Group Co., Ltd. Approved

Jemmy Wang

PSQ Executive

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Model list
BK-348,BK-349,BK-350,BK-351,BK-352,BK-353,BK-354,BK-355,BK-356,BK-357,BK-358,BK358-PD, BK358-2PD,BK-359,BK359-1A2C,BK359-3A2C,BK-360,BK-361,BK-362,BK362-PD,BK362-2PD,BK-363, BK363-PD,BK363-2PD,BK-364,BK-365,BK365-PD,BK365-2PD,BK-366,BK-367,BK-368,BK-369,BK-370, TE-P1,TE-P2,TE-P3,TE-P4,TE-P6,TE-P8,TE-P20,TE-P21,TE-P22,TE-P22,TE-P23TE-P26,TE-P27,TE-P58, TE-P31,TE-P32,TE-092,TE-093PD,TE-094,TE-096,WKN-707,WKN-708,KC-08,TE-201,TE-202,TE-328, TE-311,TE-330,TE-336,TE-337,TE-338,TE-339,TE-348,TE-348PD,TE-349,TE-350,TE-368,TE-369,TE-370, TE-371, TE-395,TE-681,TE-682,TE-683, TE-684,PD Car Charger,WGS-G28PD

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No.	Sample Description	Test item	XRF Result	ChemicalTest (mg/kg)	Conclusion
1	Black plastic	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
2	Metal of terminal	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		Br(PBBs&PBDEs)	N.D.	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
3	Green plastic	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
4	Red plastic	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	N.D.	--	

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5	blue plastic	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	N.D.	--	
		Br(PBBs&PBDEs)	N.D.	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
6	PCB	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		Br(PBBs&PBDEs)	N.D.	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
7	Spring	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP \DEHP\DIBP)	--	N.D.	
8	Metal	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		Br(PBBs&PBDEs)	BL	--	

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		Phthalate(DBP\BBP\DEHP\DIBP)	--	N.D.	
9	Copper	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP\DEHP\DIBP)	--	N.D.	
10	Black rubber	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP\DEHP\DIBP)	--	N.D.	
11	Solder	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP\DEHP\DIBP)	--	N.D.	
12	Capacitor	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	

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		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP\DEHP\DIBP)	--	N.D.	
13	Core of inductor	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP\DEHP\DIBP)	--	N.D.	
14	Wire of inductor	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP\DEHP\DIBP)	--	N.D.	
15	Chip	Pb	BL	--	Pass
		Cd	BL	--	
		Hg	BL	--	
		Cr(Cr(VI)	BL	--	
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP\DEHP\DIBP)	--	N.D.	
16	Component	Pb	BL	--	
		Cd	BL	--	
		Hg	BL	--	

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		Cr(Cr(VI)	BL	--	Pass
		Br(PBBs&PBDEs)	BL	--	
		Phthalate(DBP\BBP\DEHP\DIBP)	--	N.D.	

1. It is the result on total Br while test item on restricted substances in PBBs/PBDEs.It is the result on total Cr while test item on restricted substances is Cr(VI).
2. Screening test by XRF spectroscopy XRF screening limits in mg/kg for regulated elements according to IEC62321:2013 Ed.1 Sec.6 & AnnesD.

Element	Polymer Material	Metallic Material	Composite Material
Pb	BL≤700-3σ≤X＜1300+3σ≤OL	BL≤700-3σ≤X＜1300+3σ≤OL	BL≤500-3σ≤X＜1500+3σ≤OL
Cd	BL≤70-3σ≤X＜130+3σ≤OL	BL≤70-3σ≤X＜130+3σ≤OL	LOD＜X＜150+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

XRF detection limits in mg/kg for regulated elements in various material

Element	Polymer Material	Metallic Material	Composite Material
Pb	10	50	50
Cd	10	50	50
Hg	10	50	50
Cr	10	50	50
Br	10	50	50

Note： -BL = Under the XRF screening limit
-OL = Furture chemical test will be conducted while result is above the screening limit
-X **=**The symbol”X”marks the region where further investingation in necessary
-3σ=The reproducibility of analytical instruments
-LOD=Detection limit

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3. Wet chemical test

Test Item(s)	Test Method	Test Equipment	MDL
Pb	IEC62321-5:2013	ICP-AES	2
Cd	IEC62321-5:2013	ICP-AES	2
Hg	IEC62321-4:2013	ICP-AES	2
Cr(VI)	IEC62321-7-1:2015 IEC62321-7-2:2017	UV-Vis	2
PBB	IEC62321-6:2015	GC-MS	5
PBDE	IEC62321-6:2015	GC-MS	5
Dibutyl Phthalate(DBP)	IEC62321-8:2017	GC-MS	30
Benzylbutyl Phthalate (BBP)	IEC62321-8:2017	GC-MS	30
Di-(2-ethylhexyl) Phthalate(DEHP)	IEC62321-8:2017	GC-MS	30
Diisobutyl phthalate (DIBP)	IEC62321-8:2017	GC-MS	30

Note： - mg/kg= ppm=0.0001%

-ND=Not Detected(<MDL)

- MDL = Method Detection Limit

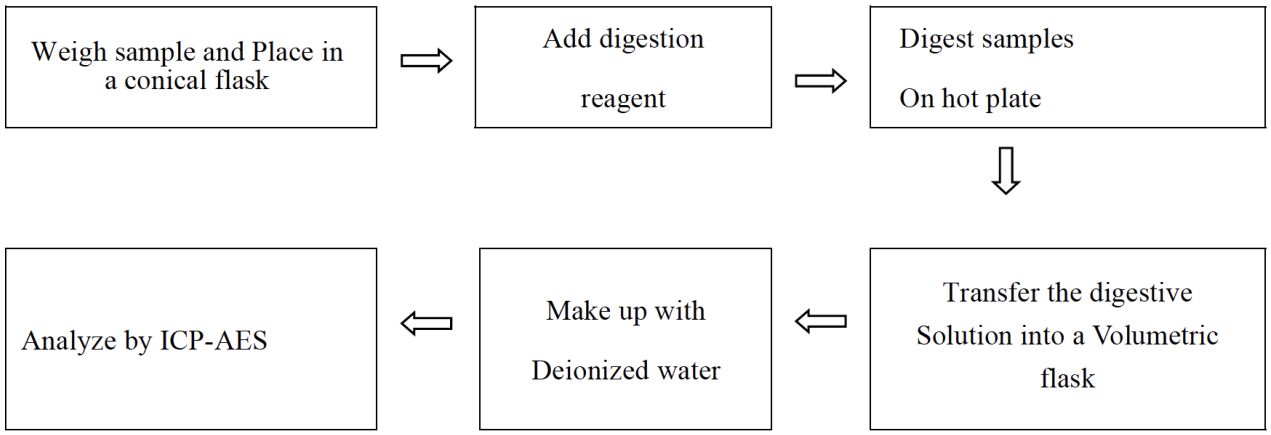
-- = No Testing

-Negative = Absence of Cr(VI), the detected Cr(VI) concentration in the boiling water extraction solution is less than 0.02 mg/kg with 50cm2 sample surface

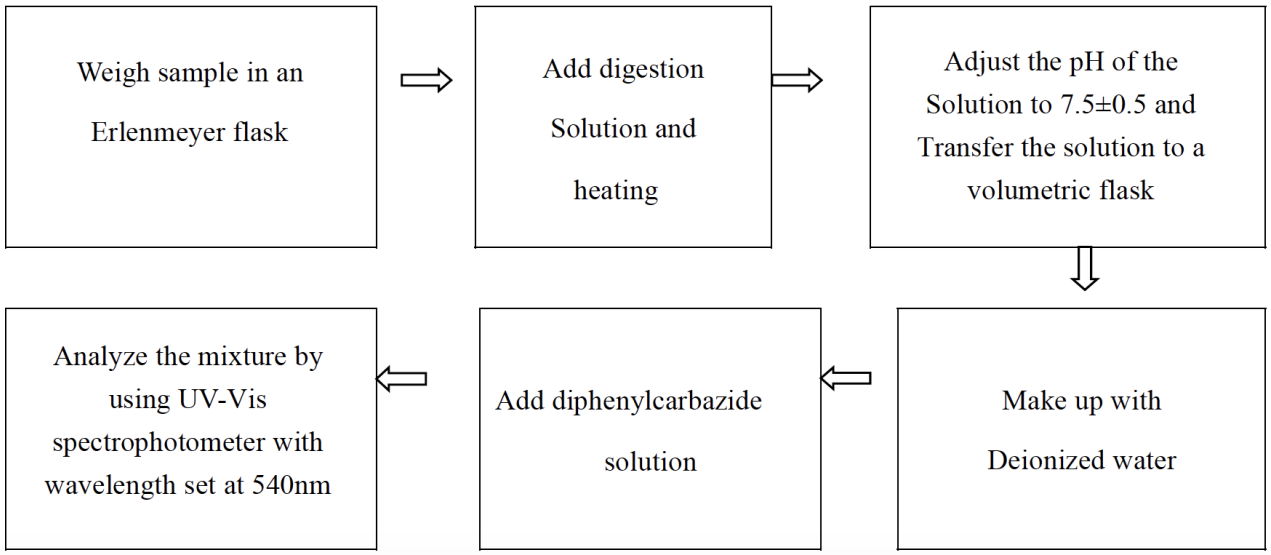
-*=According to 2011/65/EU Annex,point 6-Lead as an alloying element is steel containing up to 0.35% lead by weight, aluminum containing up to 0.4% lead by weight and as a。copper alloy, containing up to 4% leda by weight can be exempted.

Test Process:

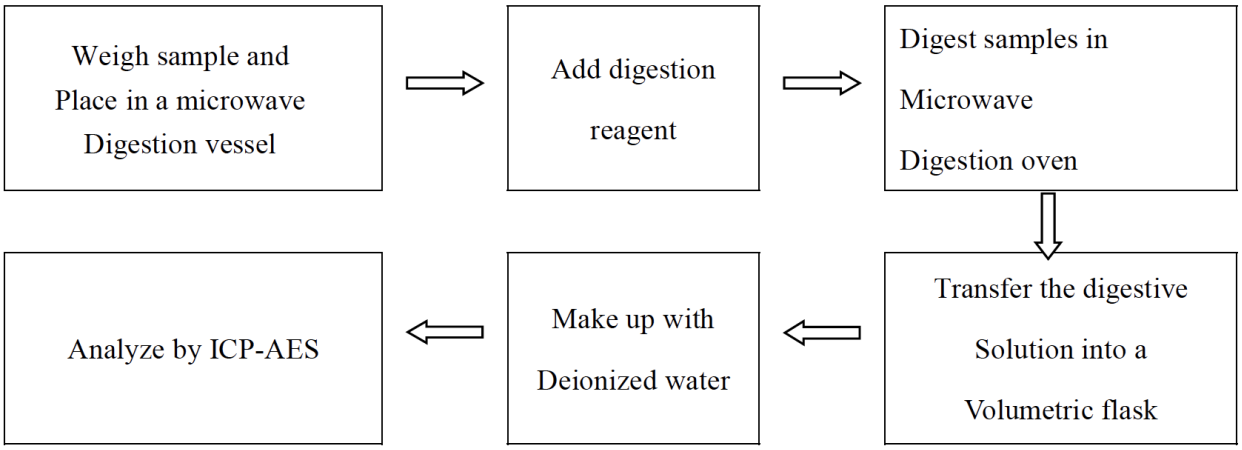
1. Test for Cd/Pb Content



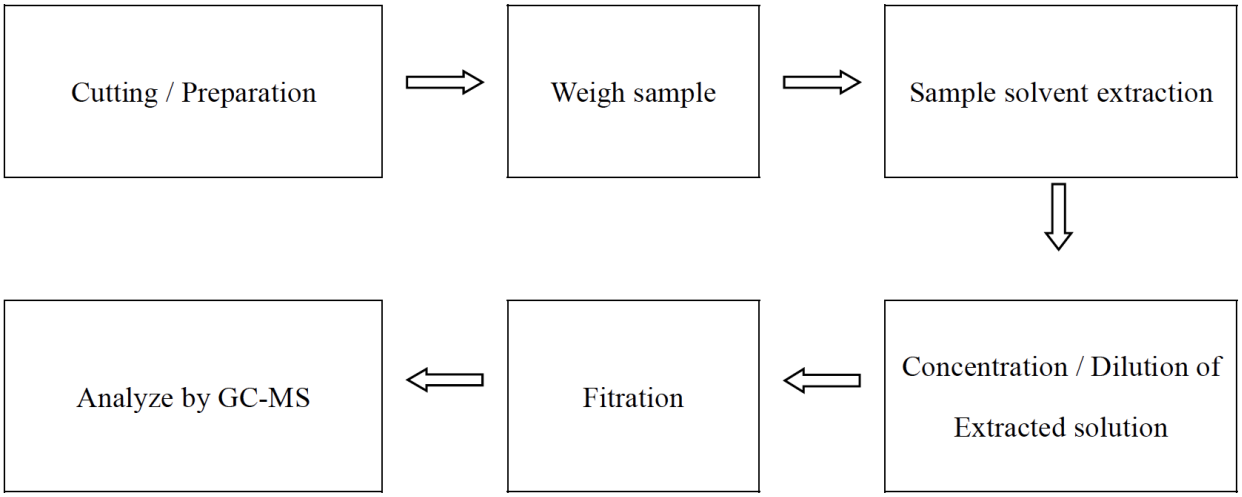
2. Test for Chromium(VI)Content



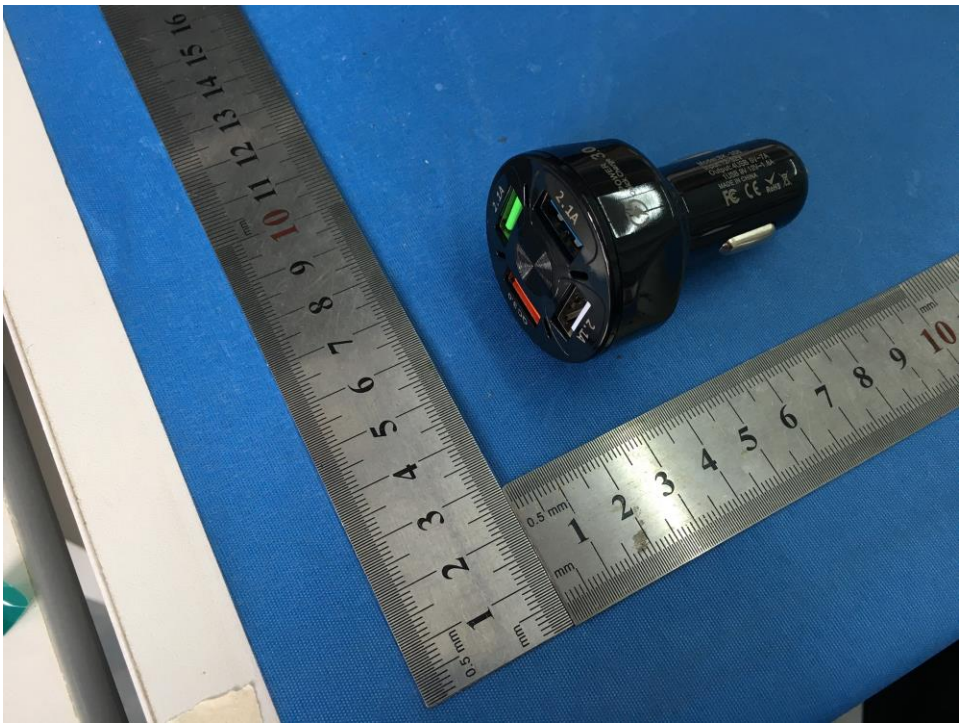
3. Test for Hg Contents



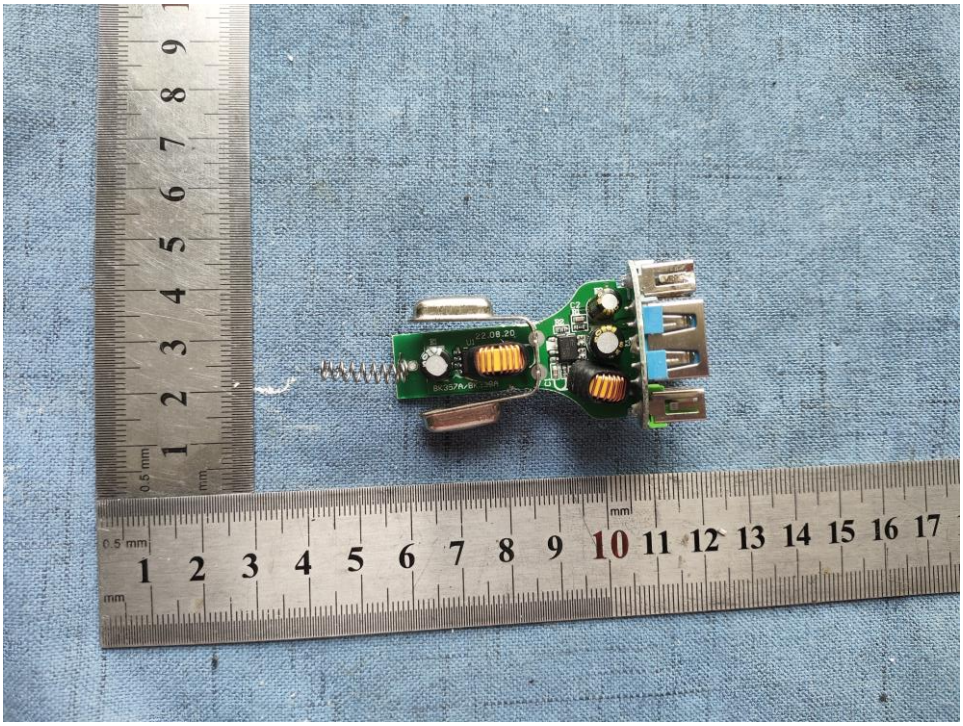
4. Test for PBBs/PBDES/DBP/BBP/DEHP/DIBP



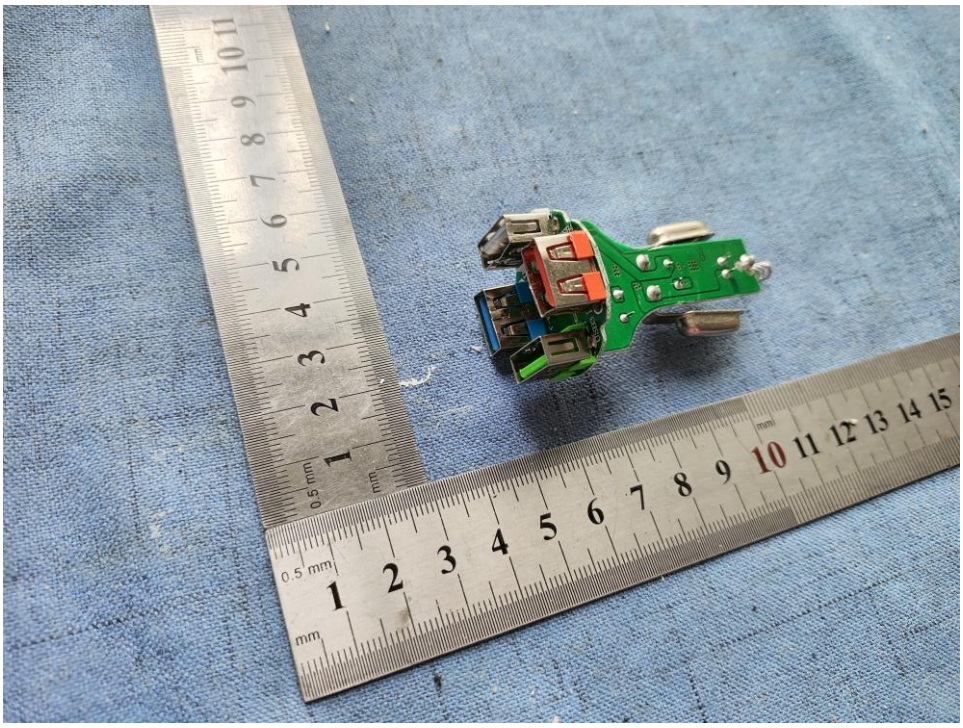
Photograph of Sample:



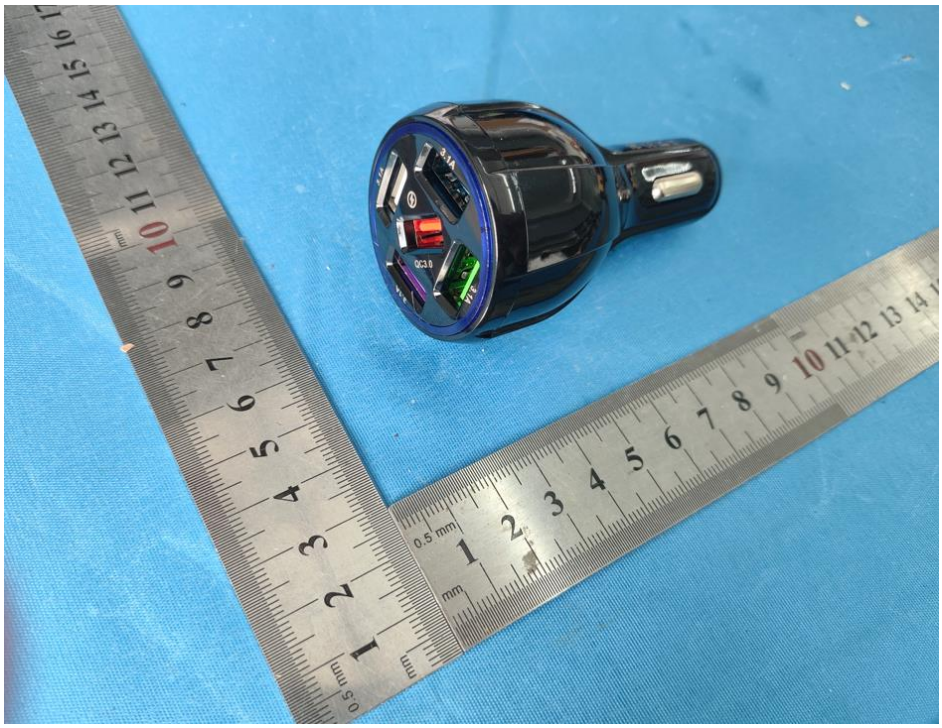
Photographs 01: Overall view-BK358



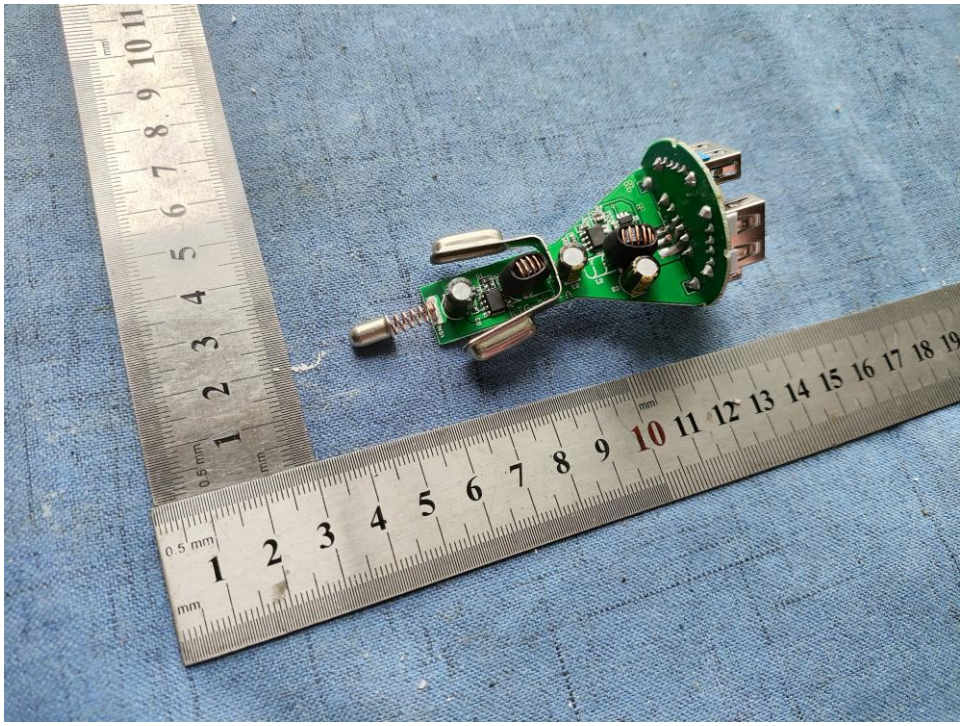
Photographs 02: PCB view--BK358



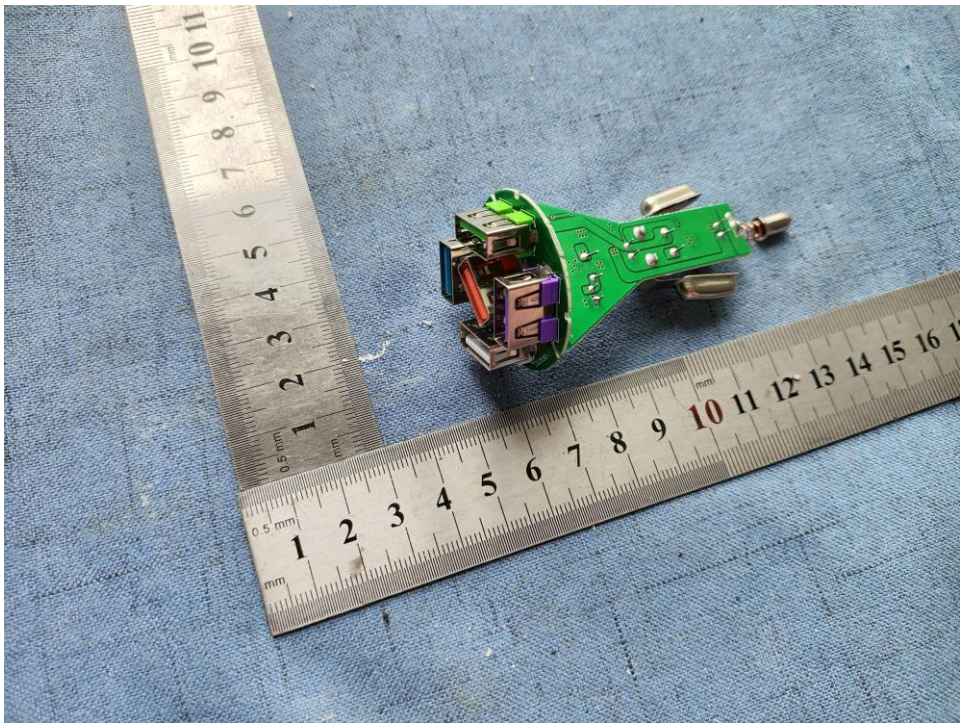
Photographs 03: PCB view --BK358



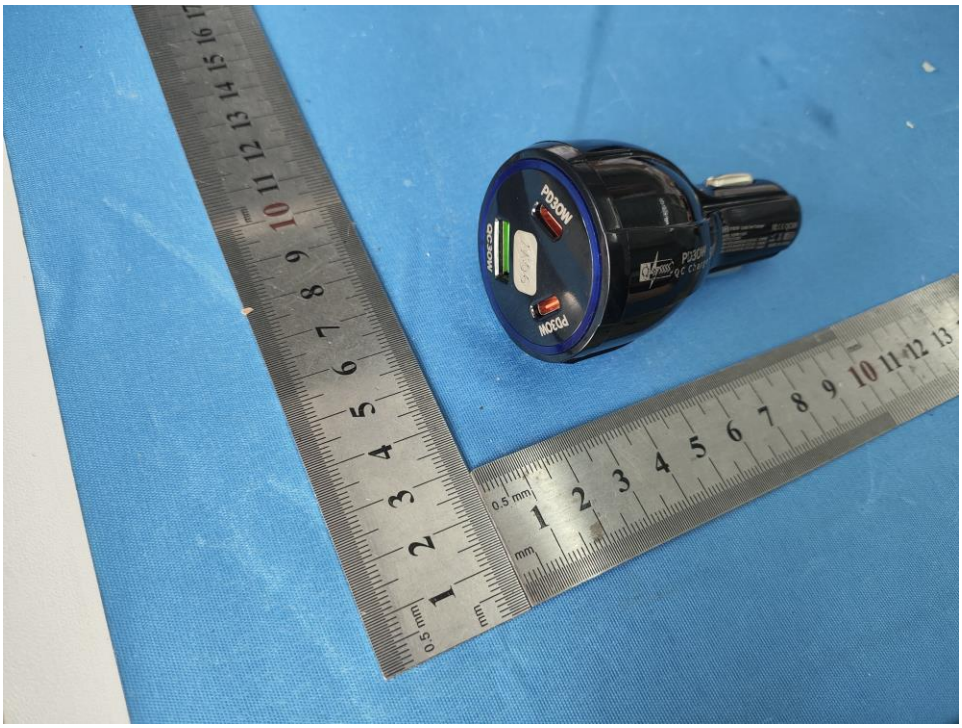
Photographs 04: Overall view-BK359



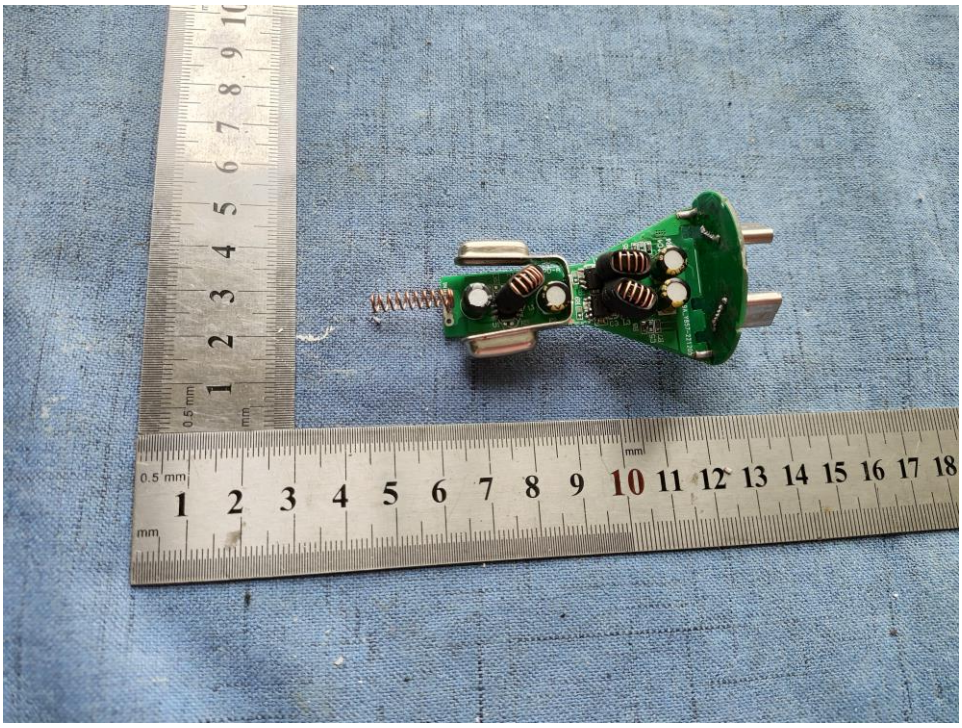
Photographs 05: PCB view --BK359



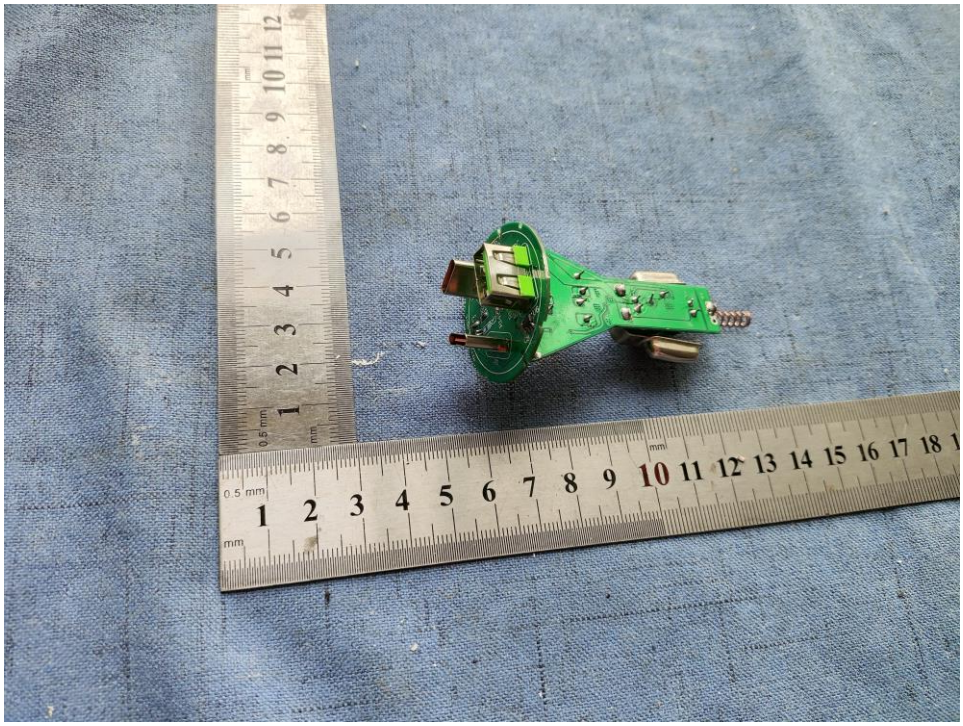
Photographs 06: PCB view --BK359



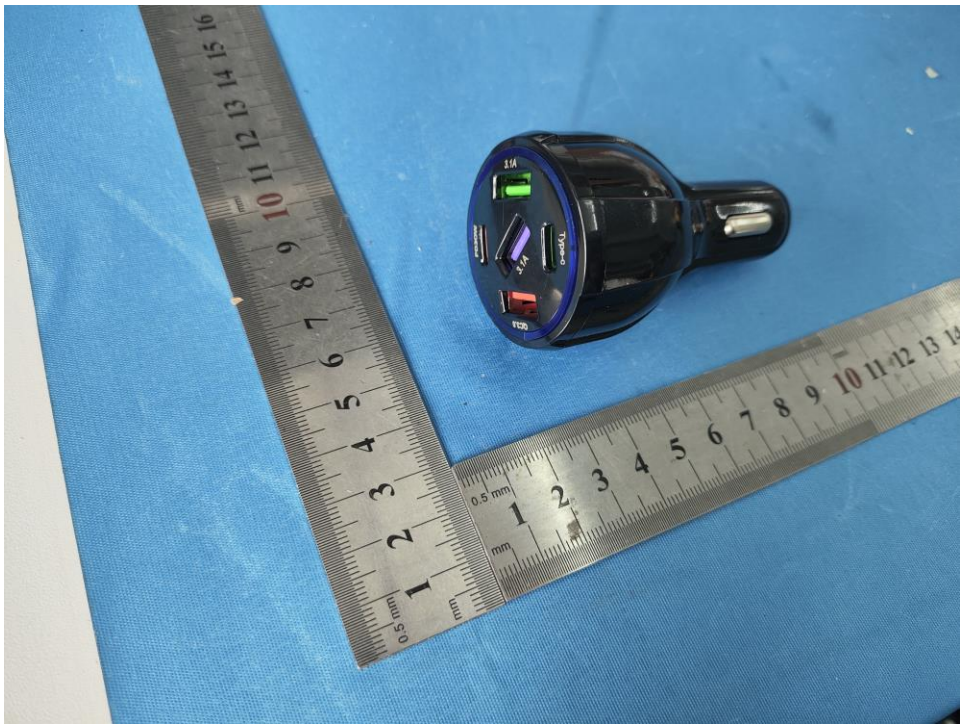
Photographs 07: Overall view- BK359-1A2C



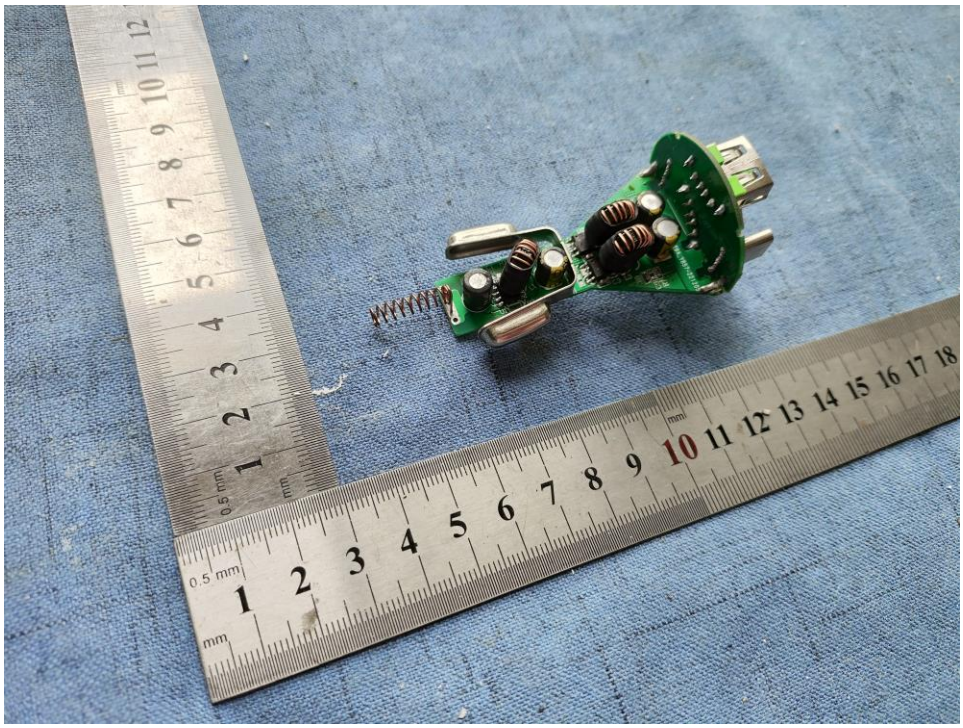
Photographs 08: PCB view -- BK359-1A2C



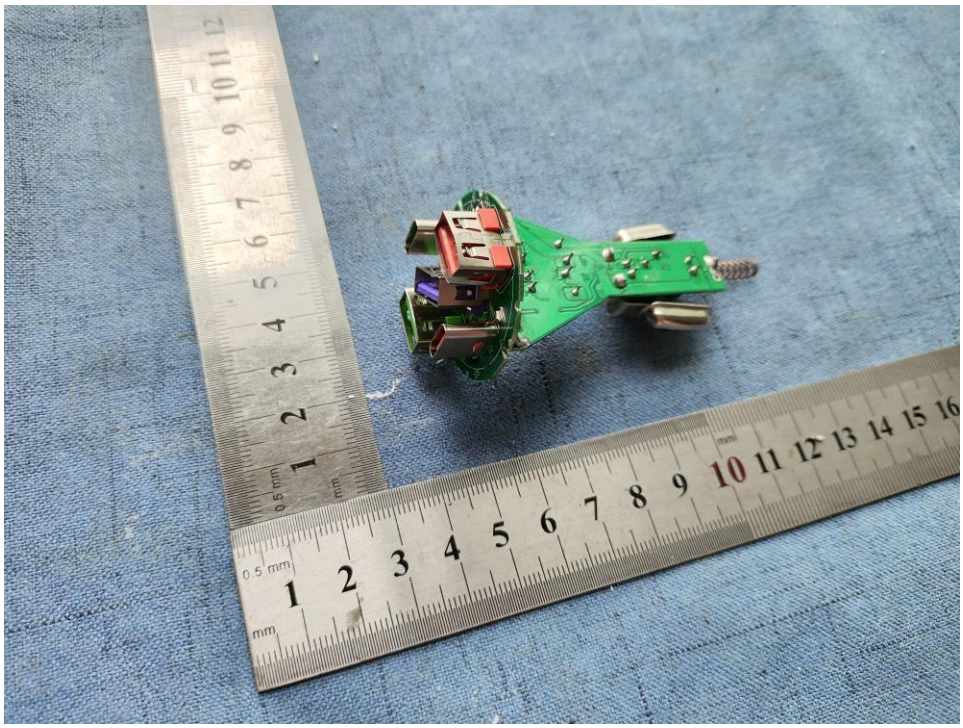
Photographs 09: PCB view -- BK359-1A2C



Photographs 10: Overall view- BK359-3A2C

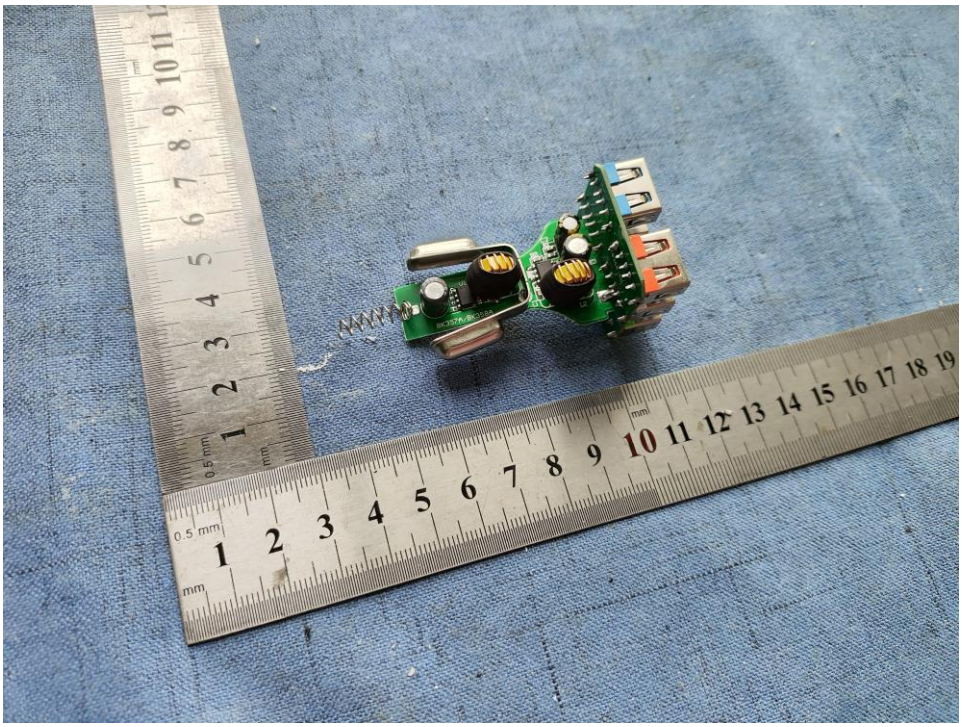


Photographs 11: PCB view -- BK359-3A2C

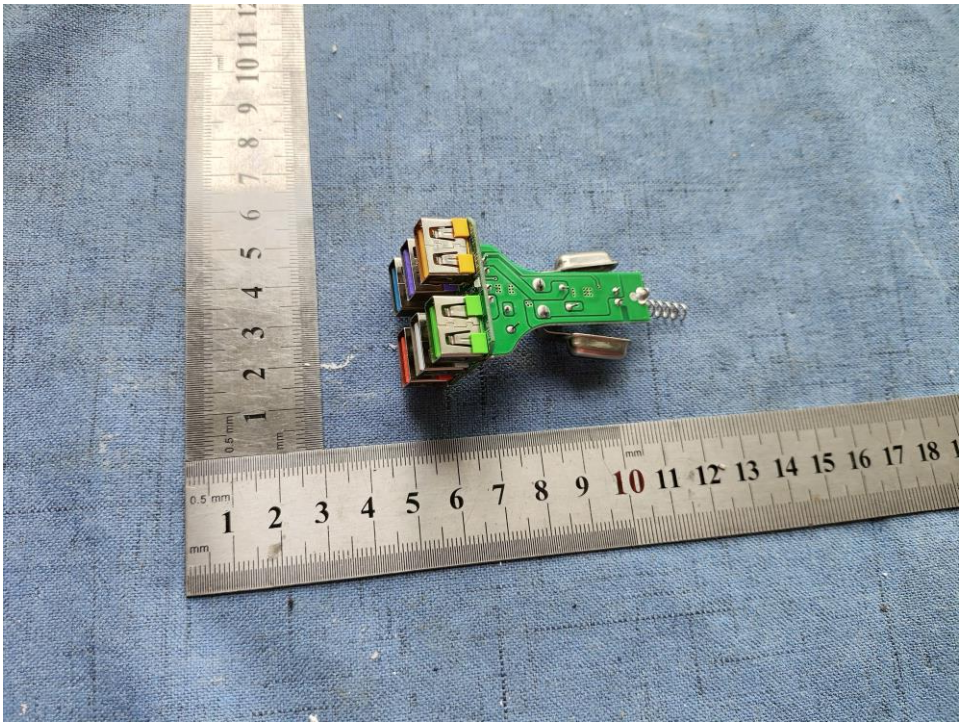


Photographs 12: PCB view -- BK359-3A2C

Photographs 13: Overall view- BK360



Photographs 14: PCB view -- BK360



Photographs 15: PCB view -- BK360

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