TEST REPORT

Applicant:	Nebra Ltd
Address:	Unit 4 Bells Yew Green Business Court, Bells Yew Green, East Sussex, United Kingdom
Manufacturer:	Shenzhen Eastech Company Limited.
Address:	2nd floor, 3rd building, Baishixia Development Area, Fuyong Street, Bao'an District, Shenzhen City, Guangdong Province, China.
Product Name:	150Mbps 2 in 1 Bluetooth wifi adapter
Trade Mark:	N/A
Model Number:	FX-8723B
Series Model No.:	N/A
Prepared By:	Shenzhen DL Testing Technology Co., Ltd.
Address:	101-201, Building C, Shuanghuan, No.8, Baoqing Road, Baolong Industrial Zone, Baolong Street, Longgang District, Shenzhen, Guangdong, China
Date of Receipt:	Jun. 17, 2021
Date of Test:	Jun. 17, 2021 - Jun. 24, 2021
Date of Report:	Jun. 24, 2021
Test Requested:	With reference to RoHS Directive 2015/863/EU amending 2011/65/EU.
Test Standard:	Please refer to next page(s).
Test Results:	Please refer to next page(s).

Conclusion:

As requested by applicant, the submitted sample was/were tested,with is listed as specimen description in the following page. the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP) , Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) , and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Prepared (Engineer): Randy Xie

Approved (Manager): Jade Yang

This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.

Version

Version No.	Date	Description
00	Jun. 24, 2021	Original

Remark:

(1) There are the results on total Br while tset items on restricted substances are PBBs and PBDEs. There are the results on total Cr while tset items on restricted substances Cr(VI)

(2) Results are obtained by EDXRF for primary screening, and futher chemical testing by ICP-OES (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 IEC62321-3-1:2013 (unit:mg/kg)

Element	Polymer Materials	Metal Materials	Composite Materials
Cd	P≤70-3σ＜D＜130+3σ≤F	P≤70-3σ＜D＜130+3σ≤F	P≤50-3σ＜D＜150+3σ≤F
Pb	P≤700-3σ＜D＜1300+3σ≤F	P≤700-3σ＜D＜1300+3σ≤F	P≤500-3σ＜D＜1500+3σ≤F
Hg	P≤700-3σ＜D＜1300+3σ≤F	P≤700-3σ＜D＜1300+3σ≤F	P≤500-3σ＜D＜1500+3σ≤F
Br	P≤300-3σ＜D	---	P≤250-3σ＜D
Cr	P≤700-3σ＜D	P≤700-3σ＜D	P≤500-3σ＜D

(a) P=Below Limit, F=Over Limit, D=Inconclusive, LOD=Limit of Detection,---=Not regulated.

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

(3) Chemical Method

① With reference to IEC 62321-5:2013,determination of Cadmium,Lead by ICP-OES.

② With reference to IEC 62321-4:2013+AMD1:2017 CSV, determination of Mercury by ICP-OES.

③ With reference to IEC 62321-7-2:2017, determination of Hexavalent Chromium by UV-Vis.

④ With reference to IEC 62321-6:2015, determination of PBBs and PBDEs by GC-MS.

⑤ With reference to IEC 62321-8:2017, determination of Phthalates by GC-MS.

(4) (a) mg/kg=0.0001%,MDL=MDL=Method Detection Limit,(c)ND=Not Detected(<MDL),---=Not Regulated

(b)Unit and MDL in wet chemical test

Test Item	Pb	Cd	Hg	DBP	BBP	DEHP	DIBP
Unit	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
MDL	10	10	10	100	100	100	100

The MDL for single compound of PBBs and PBDEs is 100 mg/kg

MDL of Cr(VI) for polymer and composite anmple is 10 mg/kg

MDL of Cr(VI) for metal sample is 0.10ug/cm^2

(c) ▼=Metal sample

a. The sample is negative for Cr^{6+} - the Cr^{6+} concentration is below the limit 0.10ug/cm^2. The coating is considered a non-Cr^{6+} based coating.

b. The sample positive for Cr^{6+} if the Cr^{6+} concentration is greater than 0.13ug/cm^2. The sample coating is considered to contain Cr^{6+}.

c.The result between 0.10ug/cm^2 and 0.13ug/cm^2 is considered to be inconclusive unavoidable coating variations may influence the determination.

Tested Sample/Part Description:

Specimen No.	Component Description(s)	Style
01	Silvery Metal	-
02	Black Plastic	-
03	Black Plastic	-
04	Chip Resistor	-
05	Chip Capacitors	-
06	Chip	-
07	PCB Board	-
08	Chip Resistor	-
09	Chip Resistor	-
10	Chip Resistor	-
11	Chip Capacitors	-
12	Chip Capacitors	-
13	Triode	-
14	Chip Resistor	-
15	LED Lamp Beads	-

Test Results:

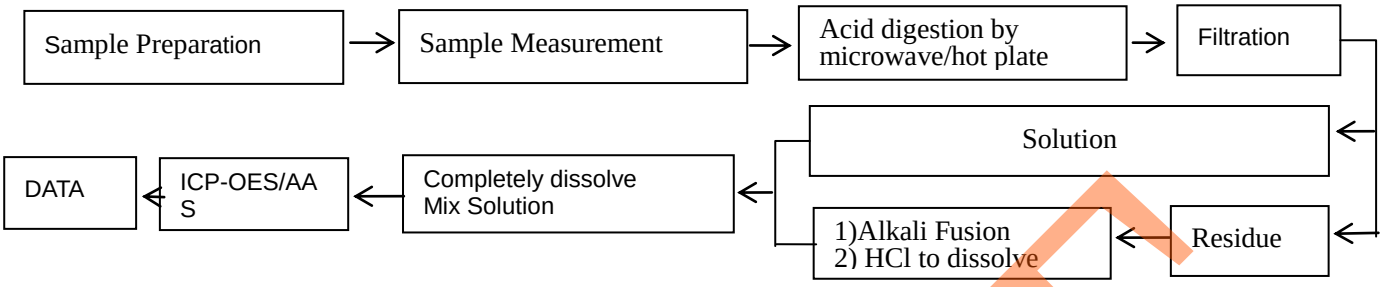
The results of XRF screening and chemical test (Unit: mg/kg)

Part No.	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
1	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	---	---		
	DBP,BBP,DEHP,DIBP	---	---		
2	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	---	---		
	DBP,BBP,DEHP,DIBP	---	---		
3	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	P	---		
	DBP,BBP,DEHP,DIBP	---	N.D.		
4	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	---	---		
	DBP,BBP,DEHP,DIBP	---	---		
5	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	P	---		
	DBP,BBP,DEHP,DIBP	---	N.D.		
6	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	---	---		
	DBP,BBP,DEHP,DIBP	---	---		
7	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	P	---		
	DBP,BBP,DEHP,DIBP	---	N.D.		
8	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	---	---		
	DBP,BBP,DEHP,DIBP	---	N.D.		

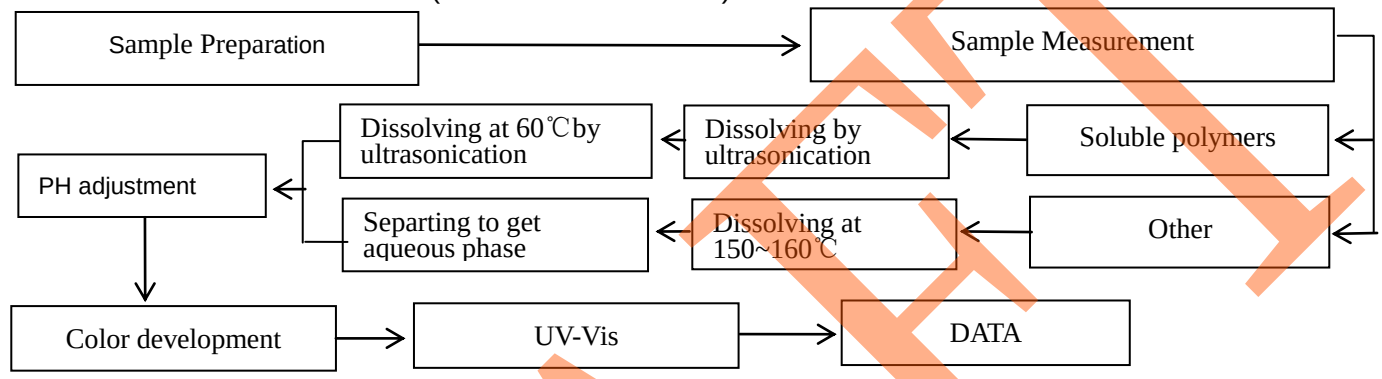
Part No.	Element	X-ray Screening	Results of chemical test	Conclusion on RoHS EU	Sample Resubmitted
9	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	P	---		
	DBP,BBP,DEHP,DIBP	---	N.D.		
10	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	P	---		
	DBP,BBP,DEHP,DIBP	---	N.D.		
11	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	---	---		
	DBP,BBP,DEHP,DIBP	---	---		
12	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	P	---		
	DBP,BBP,DEHP,DIBP	---	N.D.		
13	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	---	---		
	DBP,BBP,DEHP,DIBP	---	---		
14	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	P	---		
	DBP,BBP,DEHP,DIBP	---	N.D.		
15	Pb	P	---	Comply	/
	Cd	P	---		
	Hg	P	---		
	$Cr(Cr^{6+})$	P	---		
	Br(PBBs&PBDEs)	P	---		
	DBP,BBP,DEHP,DIBP	---	N.D.		

Appendix

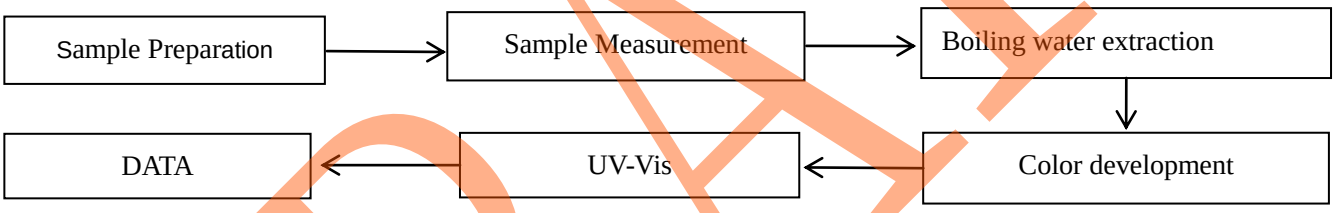
1. Test Flow chart for Cd/Pb /Hg content



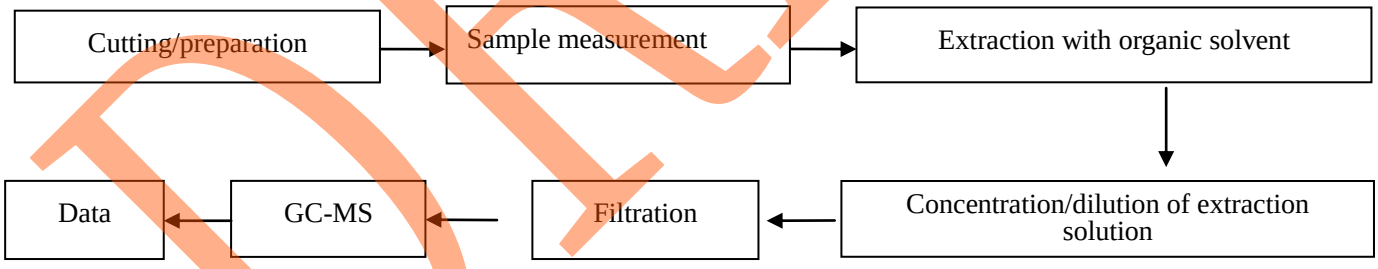
2 .Test Flowchart for Cr6+ content (For non-metal material)



3. Test Flowchart for Cr6+ content (For metal material)



4. Test Flow chart for PBBs & PBDEs & DBP & BBP & DEHP & DIBP content



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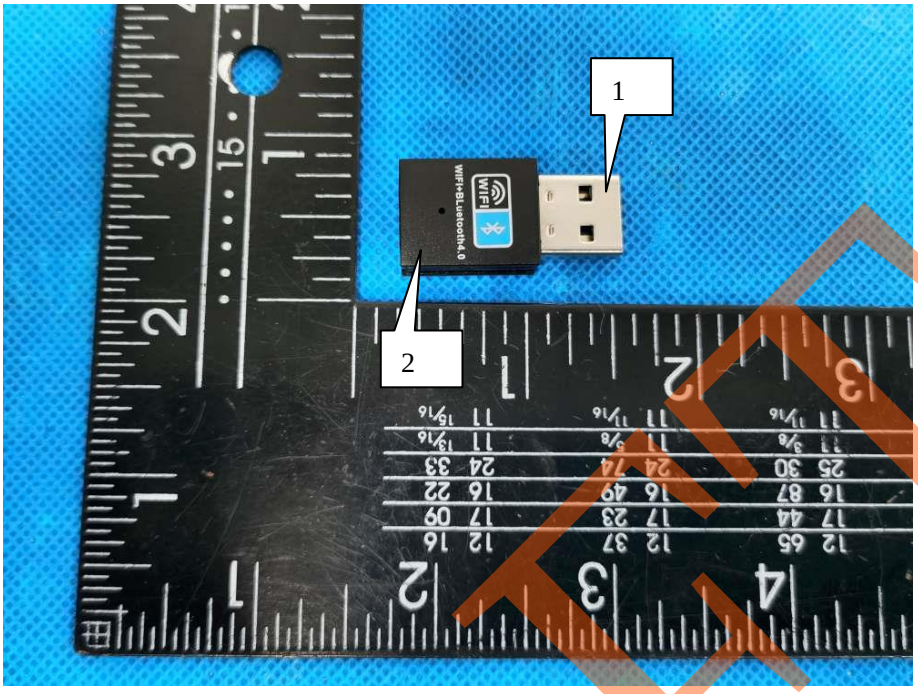

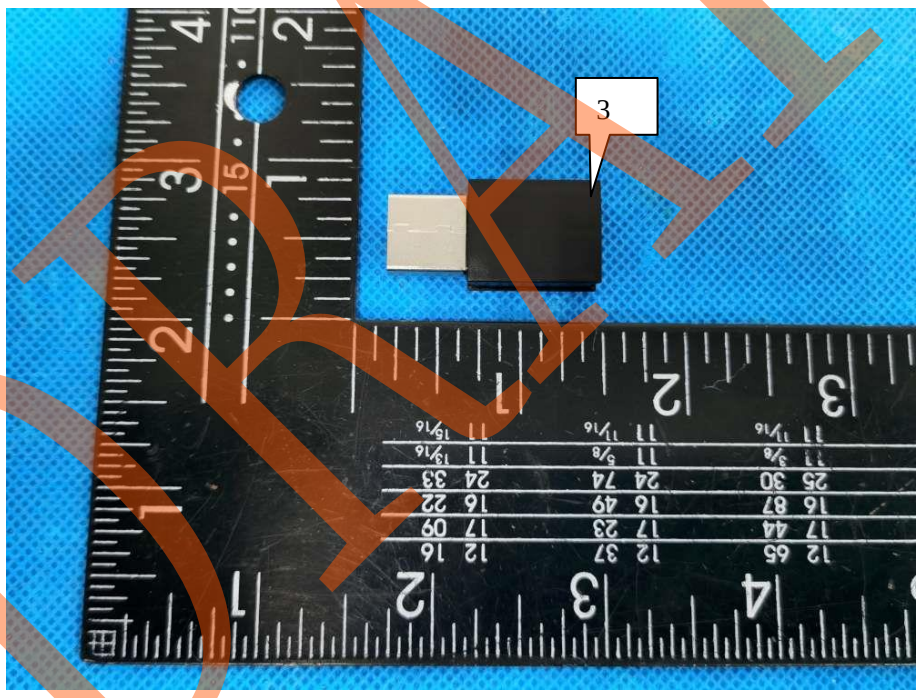

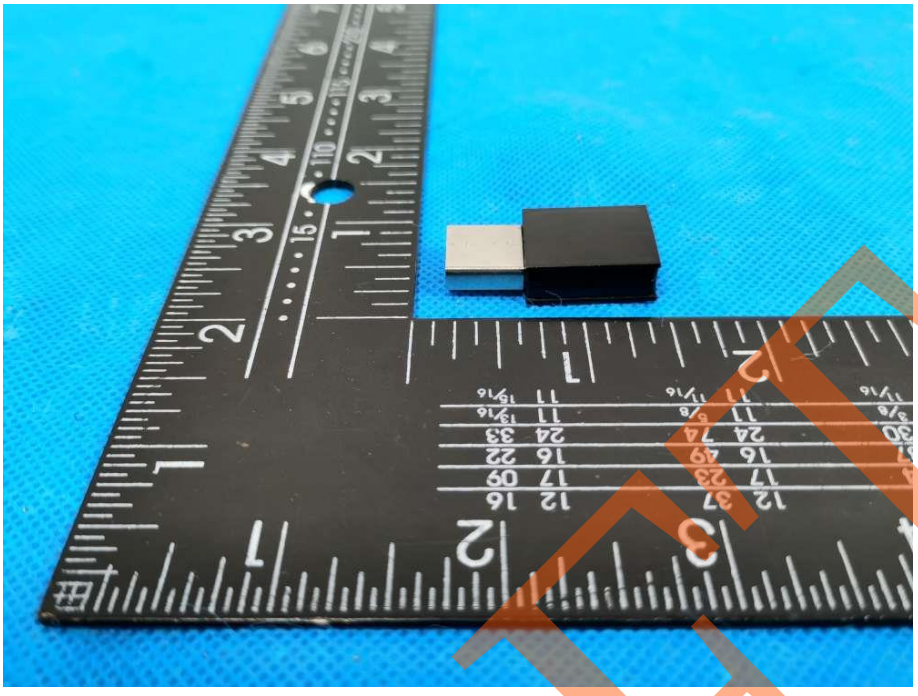

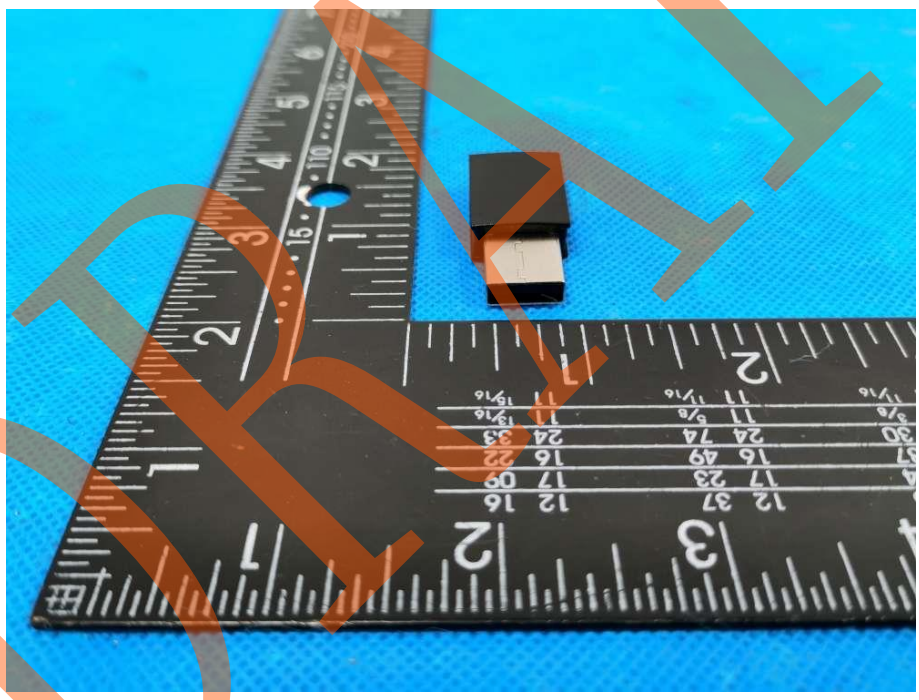

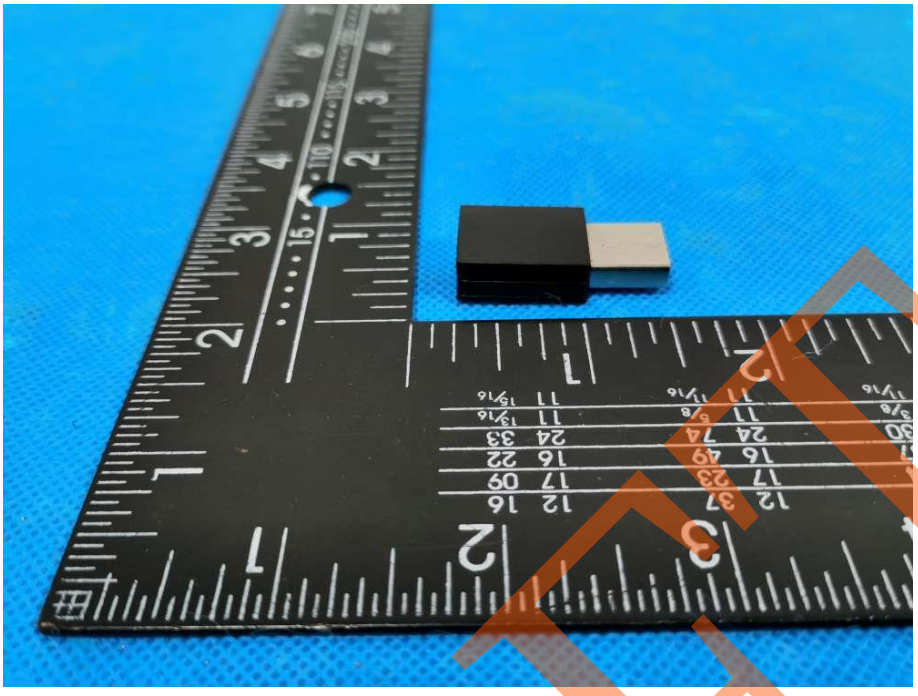

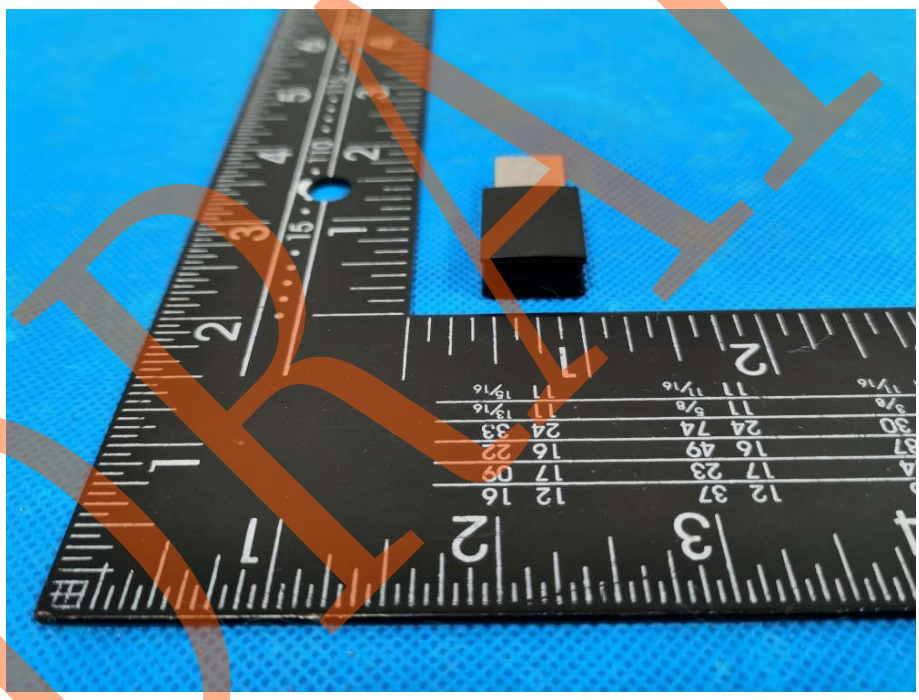

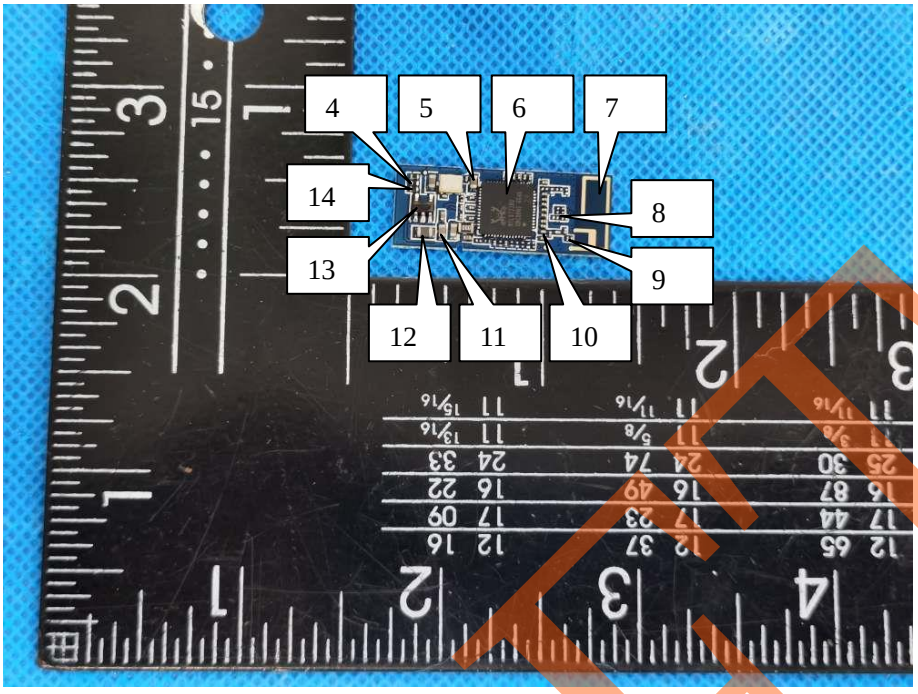

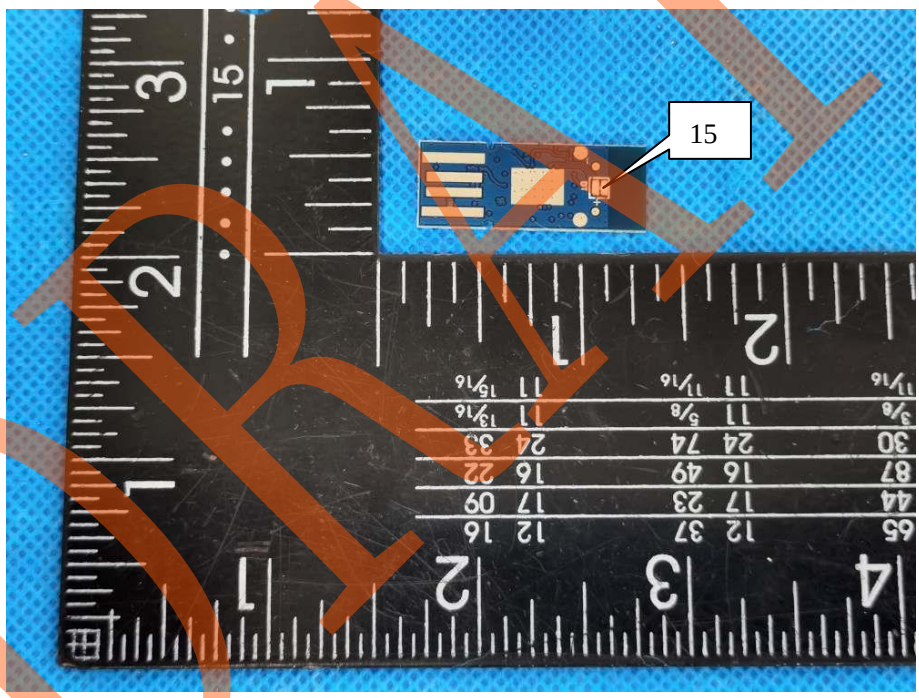

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