



**Test Report**

UTLR23083876

Date: Aug.28, 2023

Password:PW4521

Page: 1 of 10

Applicant: DOKE COMMUNICATION (HK) LIMITED

Address: RM 1902 EASEY COMM BLDG 253-261 HENNESSY ROAD WANCHAI HK CHINA

The following samples were submitted and identified on behalf of the clients as

Sample Name: Tablet  
 Model No: Tab 11 WIFI  
 Manufacturer: Shenzhen DOKE Electronic Co., Ltd  
 Address: 801, Building3, 7th Industrial Zone, Yulv Community, Yutang Road, Guangming District, Shenzhen, China.

Sample Received Date: Aug.25, 2023  
 Test Period: Aug.25, 2023 to Aug.28, 2023  
 Test Method: Please refer to next page(s).  
 Test Result: Please refer to next page(s).

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**CONCLUSION :**

According to client's request to conduct below tests in the selected parts of the submitted sample:

<u>TEST ITEM</u>	<u>RESULT</u>
1.RoHS Directive 2011/65/EU Annex II amending Annex(EU)2015/863 and amending Annex (EU)2017/2102	
-Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content	<b>PASS</b>
-Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate(DBP), Diisobutyl phthalate(DIBP) Content	<b>PASS</b>

\*\*\*\*\*



Authorized Signatory  
Title: Lab Manager

For and on behalf of  
Dongguan Universal Testing Technology Co., Ltd.

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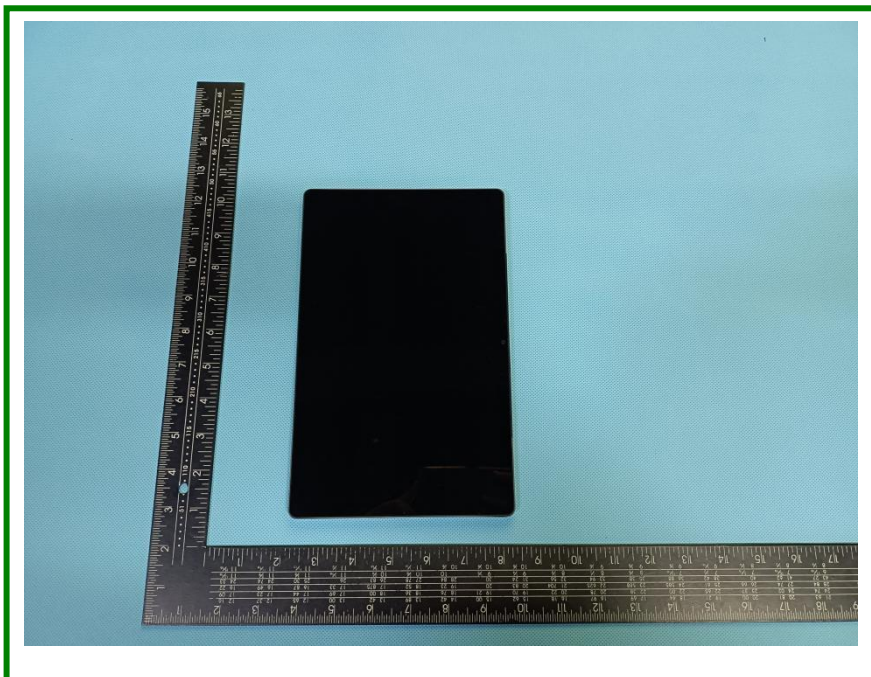
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Photos of submitted sample



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**Test Result(s):**

Part No.	Part Description
P1	Black display screen: glass
P2	Silver metal shell
P3	Black tape
P4	Black plastic cable
P5	Yellow with black plastic cable
P6	Silver metal shell
P7	Black plastic border
P8	Silver translucent plastic board
P9	Black tape
P10	Silver translucent plastic board
P11	White plastic board
P12	Translucent plastic board
P13	Transparent plastic board
P14	White LED
P15	White PCB
P16	White plastic border
P17	Silver metal cover
P18	Silver metal cover
P19	Silver metal bracket
P20	Purple soft adhesive
P21	SK black electronic components
P22	Gray metal electronic components
P23	Brown metal electronic components
P24	100 gray metal electronic components
P25	Black PCB board
P26	Black metal screw
P27	Soldering tin
P28	Silver metal buckle
P29	Black PCB board
P30	Silver metal card holder

**1.RoHS Directive 2011/65/EU and its amending Directive (EU)2015/863 & Directive (EU)2017/2102**

ROHS Restricted Substances	Limit(w/w)
Lead(Pb)	0.1%
Cadmium(Cd)	0.01%
Mercury(Hg)	0.1%
Hexavalent Chromium(Cr VI)	0.1%

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Polybromobiphenyls (PBBs)	0.1%
Polybromodiphenyl ethers (PBDEs)	0.1%
Di-(2-ethylhexyl) phthalate(DEHP)	0.1%
Benzylbutyl phthalate(BBP)	0.1%
Dibutyl phthalate(DBP)	0.1%
Diisobutyl phthalate(DIBP)	0.1%

**1. Lead, Cadmium, Mercury, Hexavalent Chromium, PBBs and PBDEs Content –RoHS Directive 2011/65/EU and its amending Directive (EU)2015/863 & Directive (EU)2017/2102**

Method(s) Used: Please refer to Annex B

**PRELIMINARY SCREENING ASSESSMENT**

Part No.	Result(s)(mg/kg)				
	Lead	Cadmium	Mercury	Chromium	Bromine
P1	BL	BL	BL	BL	BL
P2	BL	BL	BL	BL	NA
P3	BL	BL	BL	BL	BL
P4	BL	BL	BL	BL	BL
P5	BL	BL	BL	BL	BL
P6	BL	BL	BL	BL	NA
P7	BL	BL	BL	BL	BL
P8	BL	BL	BL	BL	BL
P9	BL	BL	BL	BL	BL
P10	BL	BL	BL	BL	BL
P11	BL	BL	BL	BL	BL
P12	BL	BL	BL	BL	BL
P13	BL	BL	BL	BL	BL
P14	BL	BL	BL	BL	BL
P15	BL	BL	BL	BL	BL
P16	BL	BL	BL	BL	BL
P17	BL	BL	BL	BL	NA
P18	BL	BL	BL	BL	NA
P19	BL	BL	BL	BL	NA
P20	BL	BL	BL	BL	BL
P21	BL	BL	BL	BL	BL
P22	BL	BL	BL	BL	NA
P23	BL	BL	BL	X	NA
P24	BL	BL	BL	BL	NA

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P25	BL	BL	BL	BL	X
P26	BL	BL	BL	BL	NA
P27	BL	BL	BL	BL	NA
P28	BL	BL	BL	X	NA
P29	BL	BL	BL	BL	X
P30	BL	BL	BL	BL	NA

Note(s):

- 1.mg/kg = milligram(s) per kilogram = ppm = part(s) per million
- 2.BL=Below limit; OL=Over limit; NA=Not applicable; X=further chemical testing needed
- 3.APPENDIX A for interpretation of EDXRF results(StandardIEC62321-3-1)

APPENDIX A

Element	Polymer Materials	Metallic Materials	Composite Materials
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$	NA	$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

Note(s): Results was obtained by EDXRF for primary screening. According the APPENDIX A below, further chemical testing by ICP (for Cd, Pb, Hg), UV-VIS (for CrVI) and GCMSD (for PBBs, PBDEs) have to be performed, if the XRF results is in the range defined as inconclusive (X). Further chemical testing is also proposed when results are over limit (OL) in order to have a numeral result to compare to the limits set by the Directive 2011/65/EU.



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### CHEMICAL TEST

Part No.	Test item	Result	Limit	Conclusion
P23	Chromium VI(Cr VI)	Negative	Negative	Pass
P28	Chromium VI(Cr VI)	Negative	Negative	Pass

Note:

1. Result(s) of Cr VI for metallic material(s) was (were) expressed in term of positive and negative. Negative means the absence of Cr VI on the tested areas and the result(s) was (were) regarded as in compliance with European Council Directive 2011/65/EU, Article 4(1). While, positive means the presence of Cr VI on tested areas and the result(s) was (were) regarded as in conflict with European Council Directive 2011/65/EU, Article 4(1).

Part No.	Test item	Unit	MDL	Result	Limit	Conclusion
P25	Polybromobiphenyls (PBBs)	mg/kg	50	N.D.	1000	Pass
	Polybromodiphenyl ethers (PBDEs)	mg/kg	50	N.D.	1000	Pass
P29	Polybromobiphenyls (PBBs)	mg/kg	50	N.D.	1000	Pass
	Polybromodiphenyl ethers (PBDEs)	mg/kg	50	N.D.	1000	Pass

Note:

1. MDL=Method detection limit
2. mg/kg=milligram per kilogram=ppm
3. N.D.=Not detected(<MDL)

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## APPENDIX B

List of Analytes and their Corresponding Test Methods [ European Council Directive 2011/65/EU ] :		
No.	Name of Analytes	Test Method(s)
1	Lead(Pb), mercury(Hg), cadmium(Cd), total chromium(Cr) and total bromine(Br) using X-ray fluorescence spectrometry	With reference to IEC 62321-3-1:2013
2	Lead (Pb)	With reference to IEC 62321-5:2013
3	Cadmium (Cd)	
4	Mercury (Hg)	With reference to IEC 62321-4:2013/AMD1:2017
5	Chromium VI (Cr VI)	Metal :With reference to IEC 62321-7-1:2015 Polymers & Electronics :With reference to IEC 62321-7-2:2017
6	Polybromobiphenyls (PBBs) - Bromobiphenyl (MonoBB) - Dibromobiphenyl (DiBB) - Tribromobiphenyl (TriBB) - Tetrabromobiphenyl (TetraBB) - Pentabromobiphenyl (PentaBB) - Hexabromobiphenyl (HexaBB) - Heptabromobiphenyl (HeptaBB) - Octabromobiphenyl (OctaBB) - Nonabromobiphenyl (NonaBB) - Decabromobiphenyl (DecaBB)	With reference to IEC 62321-6:2015
7	Polybromodiphenyl ethers (PBDEs) - Bromodiphenyl ether (MonoBDE) - Dibromodiphenyl ether (DiBDE) - Tribromodiphenyl ether (TriBDE) - Tetrabromodiphenyl ether (TetraBDE) - Pentabromodiphenyl ether (PentaBDE) - Hexabromodiphenyl ether (HexaBDE) - Heptabromodiphenyl ether (HeptaBDE) - Octabromodiphenyl ether (OctaBDE) - Nonabromodiphenyl ether (NonaBDE) - Decabromodiphenyl ether (DecaBDE)	
[a]	The principle of this method was evaluated and supported by two studies organized by IEC TC 111 WG3. These studies were focused on detecting the presence of Cr VI in the corrosion protection coatings on metallic samples.	



**1.2.Di-(2-ethylhexyl) phthalate(DEHP), Benzylbutyl phthalate(BBP), Dibutyl phthalate(DBP), Diisobutyl phthalate(DIBP) Content- RoHS Directive 2011/65/EU Annex II amending Annex(EU)2015/863 and amending Annex (EU)2017/2102**

Test Method: With reference to IEC 62321-8:2017, analysis was performed by GC-MS.

Test Items	Unit	Result	MDL	Limit
		<u>P3+P4+P5+P8+P9+P10</u>		
Di-(2-ethylhexyl) phthalate(DEHP)	mg/kg	N.D.	50	1000
Benzylbutyl phthalate(BBP)	mg/kg	N.D.	50	1000
Dibutyl phthalate(DBP)	mg/kg	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	50	1000
Conclusion		Pass	-	-

Test Items	Unit	Result	MDL	Limit
		<u>P7+P13+P15+P16+P25+P29</u>		
Di-(2-ethylhexyl) phthalate(DEHP)	mg/kg	N.D.	50	1000
Benzylbutyl phthalate(BBP)	mg/kg	N.D.	50	1000
Dibutyl phthalate(DBP)	mg/kg	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	50	1000
Conclusion		Pass	-	-

Test Items	Unit	Result		MDL	Limit
		<u>P11+P12</u>	<u>P20</u>		
Di-(2-ethylhexyl) phthalate(DEHP)	mg/kg	N.D.	N.D.	50	1000
Benzylbutyl phthalate(BBP)	mg/kg	N.D.	N.D.	50	1000
Dibutyl phthalate(DBP)	mg/kg	N.D.	N.D.	50	1000
Diisobutyl phthalate(DIBP)	mg/kg	N.D.	N.D.	50	1000
Conclusion		Pass	Pass	-	-

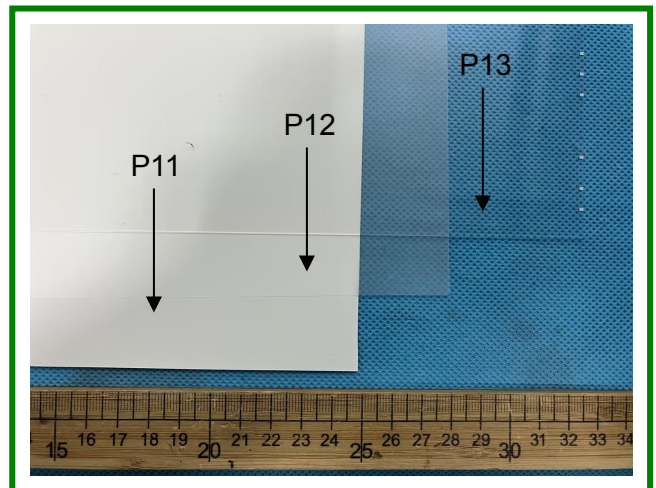
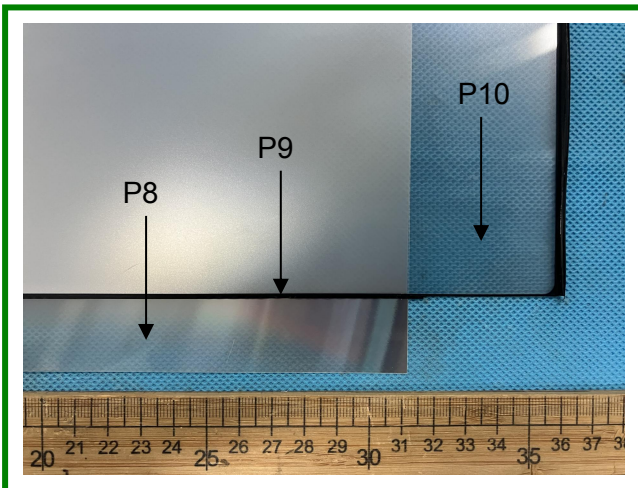
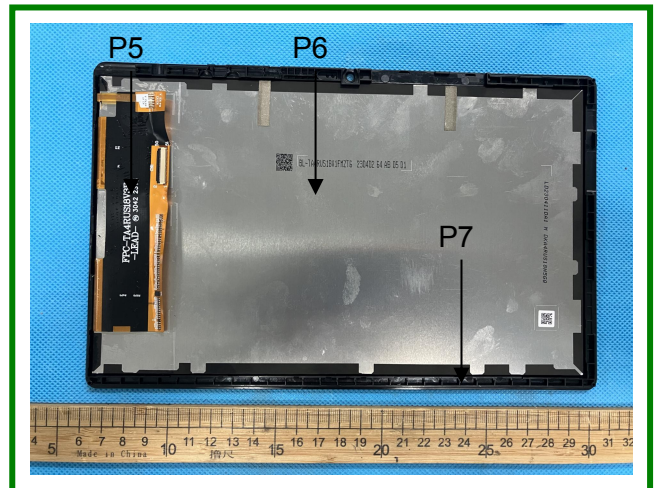
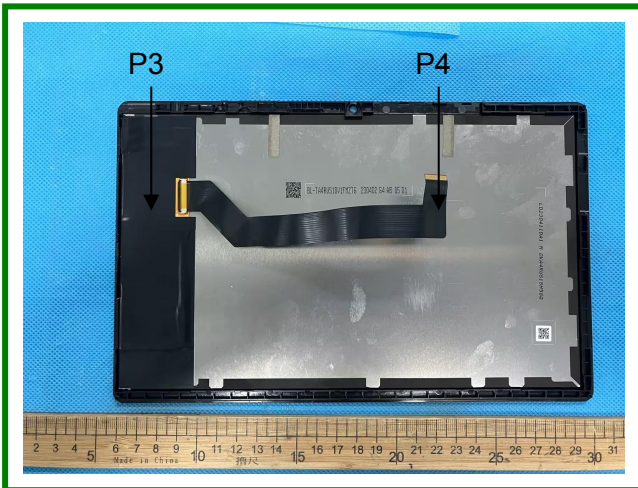
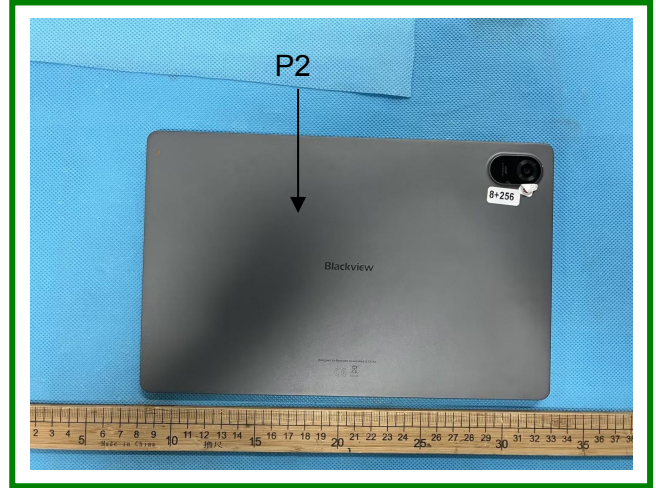
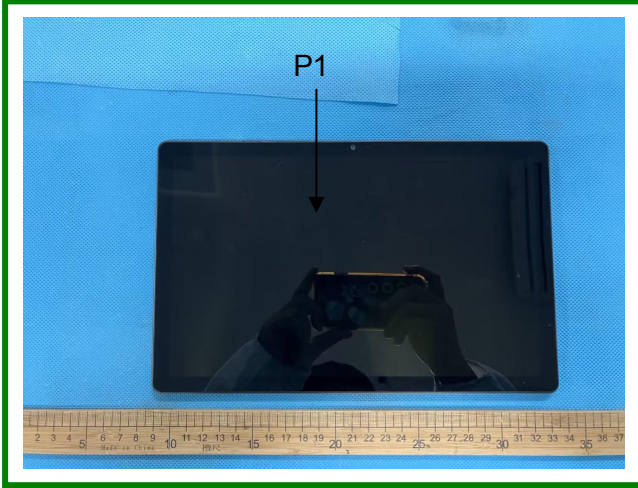
Note:

1. mg/kg = milligram per kilogram= ppm.
2. MDL = Method Detection Limit.
3. N.D. = Not Detected (< MDL)
4. "+"=mixed test, data users should consider the risk of "pass" results of mixed sample





**Parts photos:**



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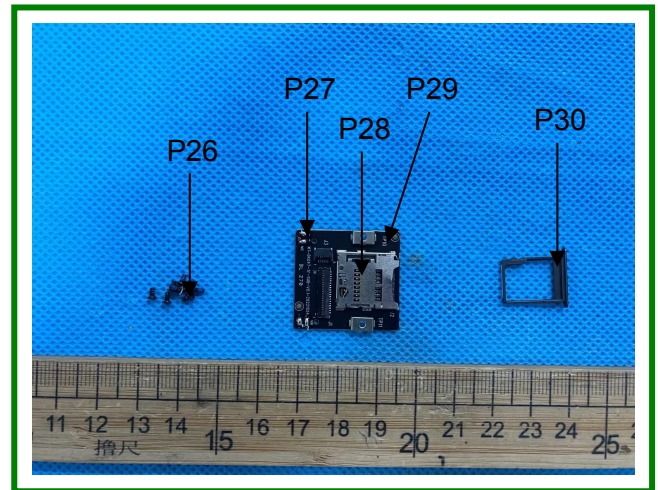
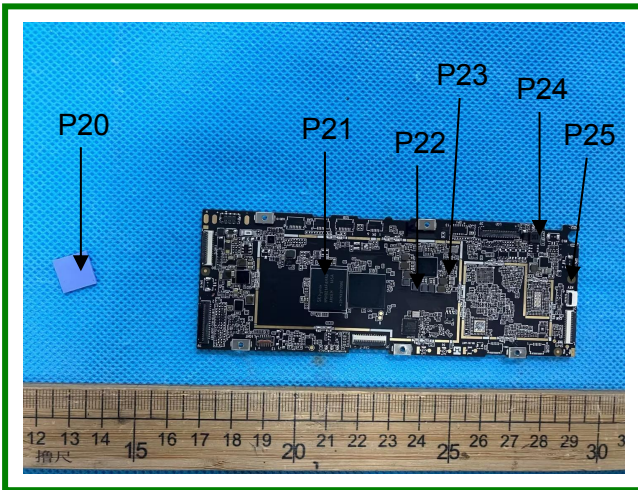
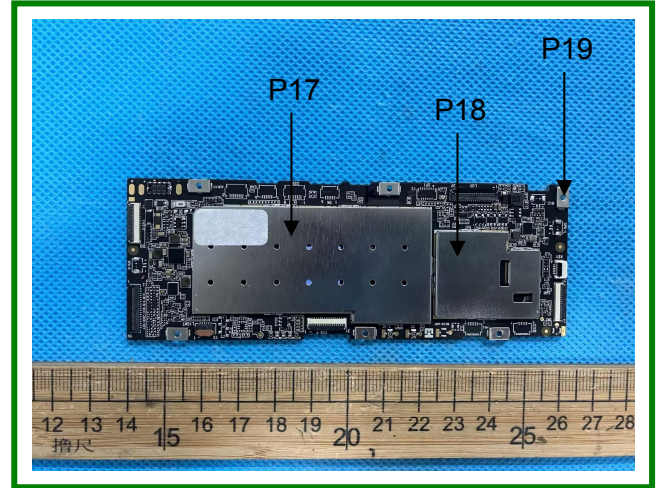
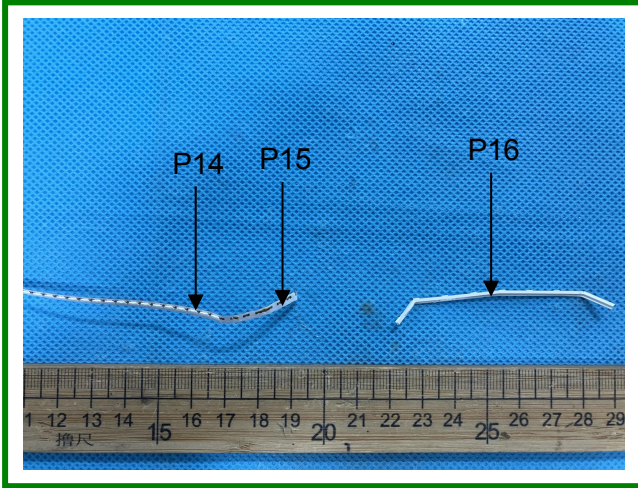
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