中国认可
国际互认
检测
TESTING
CNAS L11379

TEST REPORT

Company Name Shown on Report:	Seeed Technology Co.,Ltd
Address:	9F,Building G3,TCL International E city,Shuguang Community,Xili street,Nanshan,Shenzhen, Guangdong Province, P.R.C

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Name:	Wio-S3 Wireless Module
Sample Model:	Wio-S3
Series Model:	Wio-S3-N
Sample Received Date:	Jun.18, 2026
Test Period:	Jun.18, 2026 - Jun.26, 2026
Date of Issue:	Jul.24, 2026

ISSUED BY:
Guangdong Ti Cobo Testing Co., Ltd.

广东钛和科博检测技术有限公司 检验检测专用章 GUANGDONG TI COBO TESTING CO.,LTD

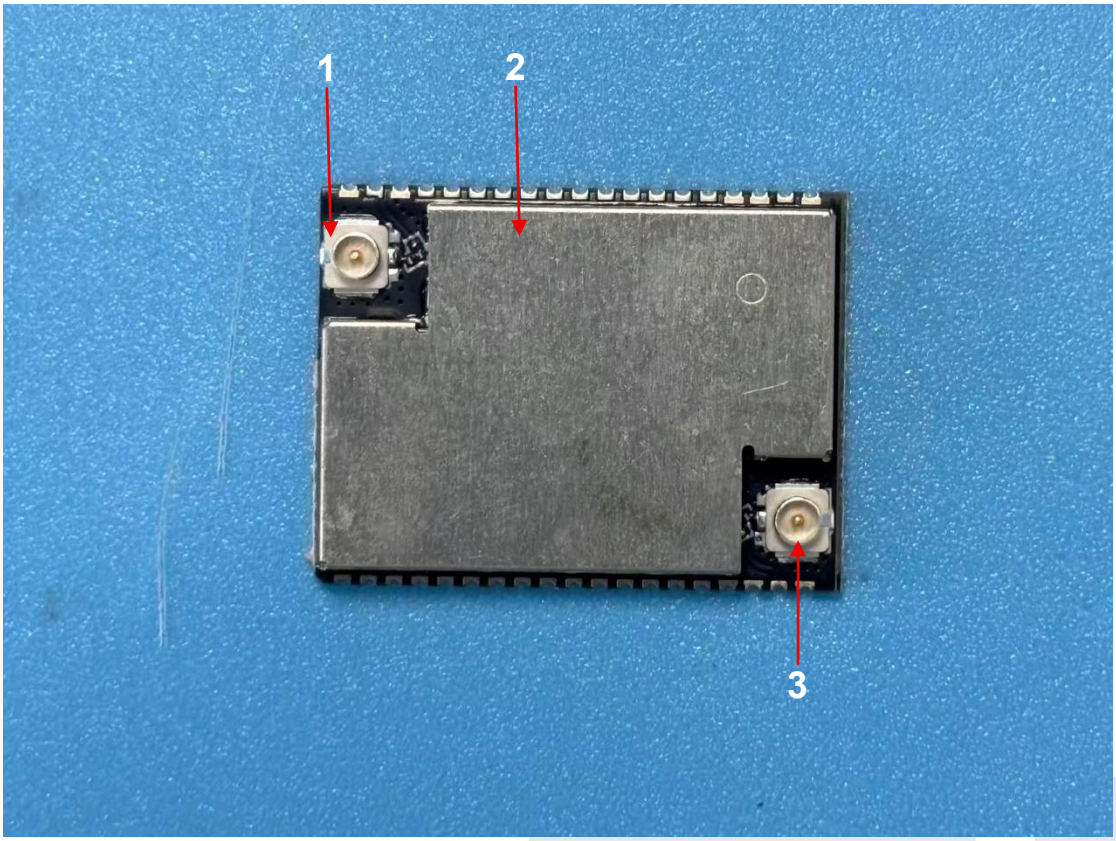
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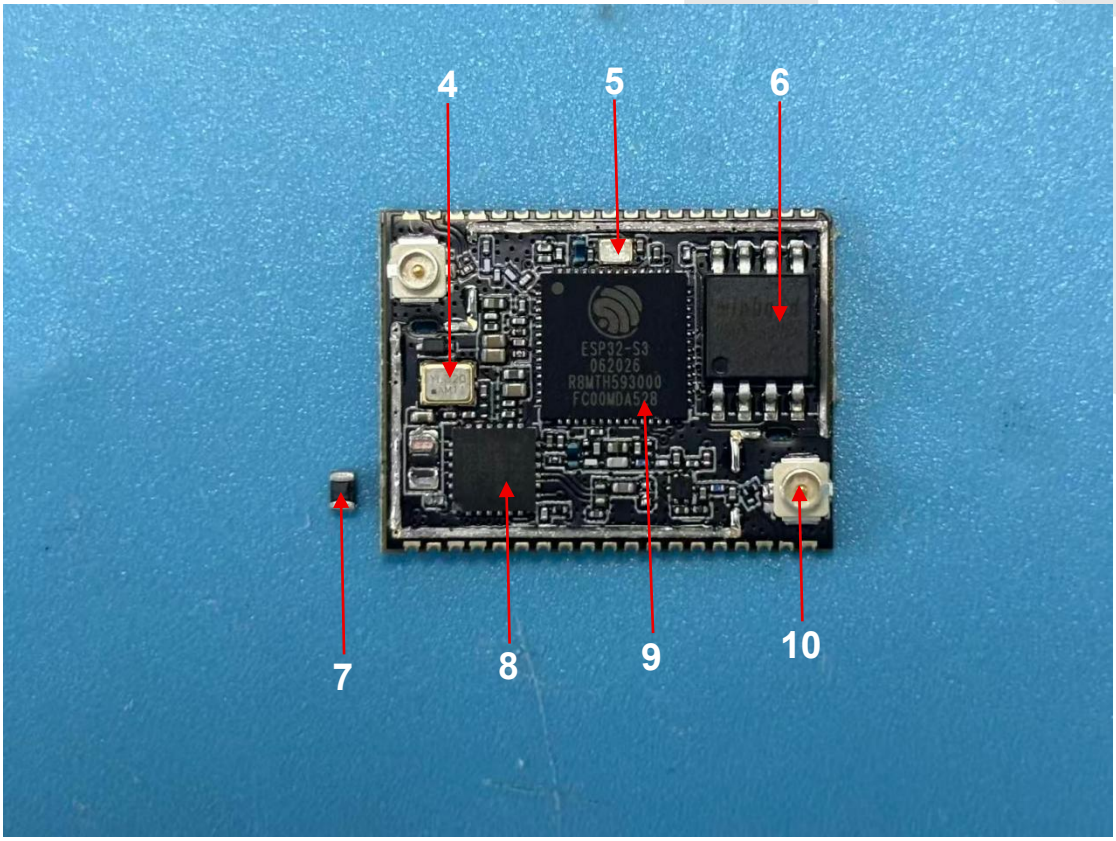
1. Test Requested and Test Conclusion:

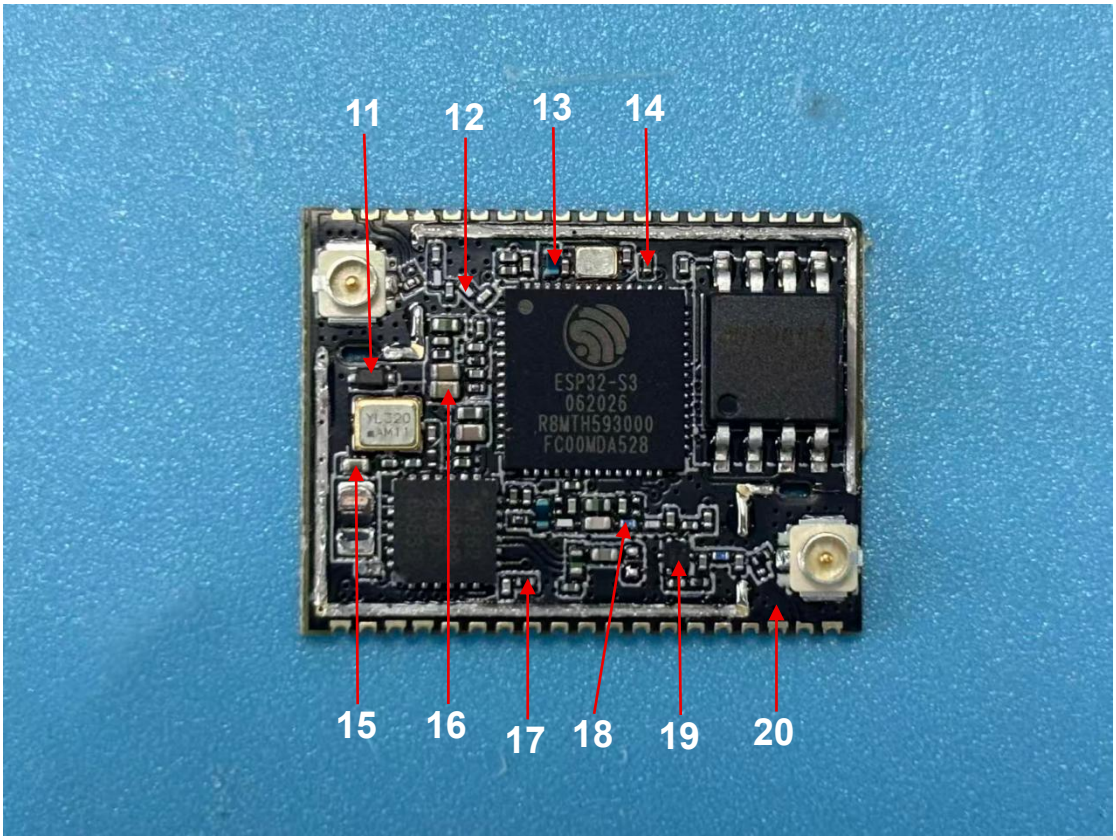
Based on the performed tests on submitted sample(s).

Test items	Conclusion
RoHS Directive 2011/65/EU Revised instructions (EU) 2015/863 of the European parliament and of the council on the restriction of the use of certain hazardous substances in electrical and electronic equipment	
– Lead (Pb)/ Cadmium(Cd)/ Mercury(Hg)/ Hexavalent Chromium(Cr^{6+}) content.	PASS
– Polybrominated biphenyls (PBBs) &Polybrominated diphenyl ethers (PBDEs) content.	PASS
– Di-(2-ethylhexyl) phthalate (DEHP), Dibutyl phthalate (DBP), Butyl benzyl phthalate (BBP), Diisobutyl phthalate (DIBP) content	PASS

Sample photo list--A






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ESP32-S3
062026
R8MTH593000
FC00MDA528

2. Sample description

Sample No.	Description
A1	Beige plastic
A2	Silvery metal
A3	Silvery metal
A4	SMD crystal oscillator
A5	SMD crystal oscillator
A6	SMD IC
A7	SMD resistor
A8	SMD IC
A9	SMD IC
A10	Golden metal
A11	SMD diode
A12	SMD capacitor
A13	SMD resistor
A14	SMD capacitor
A15	SMD capacitor
A16	SMD capacitor
A17	SMD resistor
A18	SMD crystal oscillator
A19	SMD IC
A20	Black PCB

3. Test Result(s)

3.1 Screening Test

Test Method: With reference to IEC 62321-3-1:2013, Screening –Lead (Pb)/ Cadmium(Cd)/ Mercury(Hg)/ Total Chromium(Cr)/ Total Bromine by X-ray fluorescence spectrometry.

Test Item	Total Chromium (Cr)	Cadmium (Cd)	Total Bromine (Br)	Mercury (Hg)	Lead (Pb)
Screening Limit	500mg/kg	70mg/kg	250mg/kg	500mg/kg	500mg/kg
Material No.	XRF Result				
A1	BL	BL	BL	BL	BL
A2	BL	BL	NA	BL	BL
A3	BL	BL	NA	BL	BL
A4	BL	BL	BL	BL	BL
A5	BL	BL	BL	BL	BL
A6	BL	BL	BL	BL	BL
A7	BL	BL	BL	BL	BL
A8	BL	BL	BL	BL	BL
A9	BL	BL	BL	BL	BL
A10	BL	Inc[a]	NA	BL	BL
A11	BL	Inc[a]	BL	BL	BL
A12	BL	BL	BL	BL	BL
A13	BL	BL	BL	BL	BL
A14	BL	BL	BL	BL	BL
A15	BL	BL	BL	BL	BL
A16	BL	BL	BL	BL	BL
A17	BL	BL	BL	BL	BL
A18	BL	BL	BL	BL	BL
A19	BL	BL	BL	BL	BL
A20	BL	BL	68012[a]	BL	BL

Note:
1. mg/kg = milligram per kilogram.
2. “BL” = Below Screening Limit.
3. “NA” = Not Applicable.
4. “Inc” = Inconclusive.
5. “a” denotes further confirmation test was conducted, results are listed in 3.2 and 3.3.

3.2 Heavy Metal Content

Test Method:

Lead (Pb)/Cadmium(Cd): IEC 62321-5:2013, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Mercury(Hg): IEC 62321-4:2013+AMD1:2017, analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

Hexavalent Chromium(Cr^{6+}): metal: IEC 62321-7-1:2015,nonmetal:IEC 62321-7-2:2017, analysis was performed by Ultraviolet–visible spectroscopy (UV-Vis).

Test Item	Hexavalent Chromium (Cr^{6+})	Hexavalent Chromium (Cr^{6+})	Cadmium (Cd)	Mercury (Hg)	Lead (Pb)
Limit	**1000 mg/kg**	**Negative**	**100 mg/kg**	**1000 mg/kg**	**1000 mg/kg**
Material No.	**Result**				
A10	--	--	N.D.	--	--
A11	--	--	N.D.	--	--

Note:

1. LOQ=Limit of Quantitation: Pb, Cd, Hg: 10mg/kg;Cr^{6+}: nonmetal -40mg/kg, metal- Negative(<0.1μg/cm^2).
2. mg/kg = milligram per kilogram, μg/cm^2= micrograms per square centimeter.
3. N.D. = Not Detected (< LOQ).
4. NA = Not Applicable.
5. Negative = Surface of metal sample absence of Cr^{6+}, Positive = Surface of metal sample presence of Cr^{6+}.
6. “--” denotes tested by XRF, result is listed in 3.1.

3.3 Polybrominated biphenyls (PBBs) & Polybrominated diphenyl ethers (PBDEs) Content

Test Method: IEC 62321-6:2015, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item		Limit (mg/kg)	MDL (mg/kg)	Result(mg/kg)
				A20
PBBs	Monobromobiphenyl	--	100	N.D.
	Dibromobiphenyl	--	100	N.D.
	Tribromobiphenyl	--	100	N.D.
	Tetrabromobiphenyl	--	100	N.D.
	Pentabromobiphenyl	--	100	N.D.
	Hexabromobiphenyl	--	100	N.D.
	Heptabromobiphenyl	--	100	N.D.
	Octabromobiphenyl	--	100	N.D.
	Nonabromobiphenyl	--	100	N.D.
	Decabromobiphenyl	--	100	N.D.
	Sum of detected PBBs	1000	--	N.D.
PBDEs	Monobromodiphenylether	--	100	N.D.
	Dibromodiphenylether	--	100	N.D.
	Tribromodiphenylether	--	100	N.D.
	Tetrabromodiphenylether	--	100	N.D.
	Pentabromodiphenylether	--	100	N.D.
	Hexabromodiphenylether	--	100	N.D.
	Heptabromodiphenylether	--	100	N.D.
	Octabromodiphenylether	--	100	N.D.
	Nonabromodiphenylether	--	100	N.D.
	Decabromodiphenylether	--	100	N.D.
	Sum of detected PBDEs	1000	--	N.D.

Note:
1. mg/kg = milligram per kilogram.
2. MDL=Method Detection Limit
3. N.D. = Not Detected (< MDL).
4. "--" = Not Applicable.

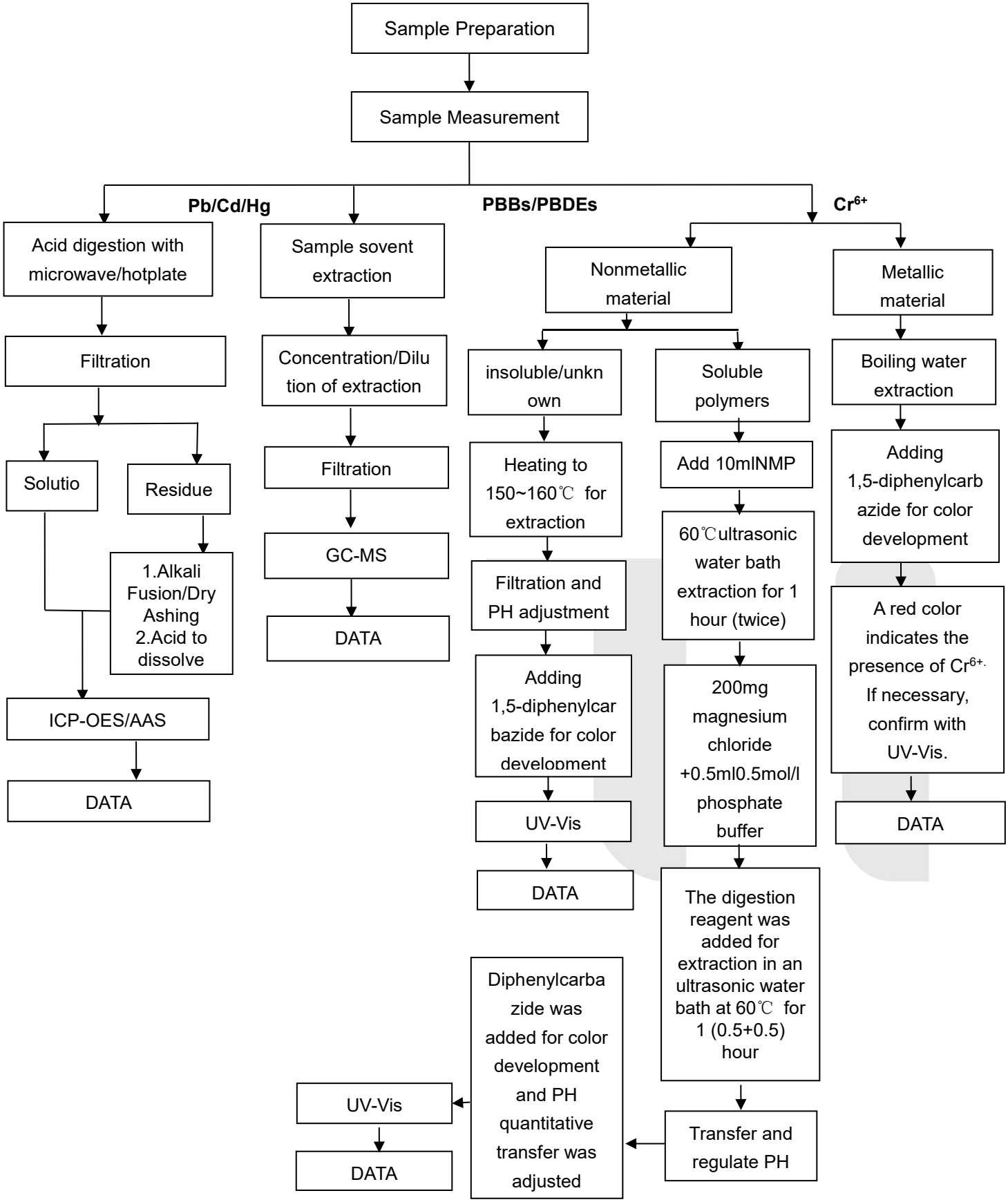
3.4 Phthalates Content

Test Method: IEC 62321-8:2017, analysis was performed by Gas Chromatograph-Mass Spectrometer (GC-MS).

Test Item	Di-(2-ethylhexyl) phthalate (DEHP)	Dibutyl phthalate (DBP)	Butyl benzyl phthalate (BBP)	Diisobutyl phthalate (DIBP)
CAS No.	117-81-7	84-74-2	85-68-7	84-69-5
Limit	1000 mg/kg	1000 mg/kg	1000 mg/kg	1000 mg/kg
Material No.	**Result (mg/kg)**			
A1	N.D.	N.D.	N.D.	N.D.
A4+A5+A6	N.D.	N.D.	N.D.	N.D.
A7+A8+A9	N.D.	N.D.	N.D.	N.D.
A11+A12+A13	N.D.	N.D.	N.D.	N.D.
A14+A15+A16	N.D.	N.D.	N.D.	N.D.
A17+A18+A19	N.D.	N.D.	N.D.	N.D.
A20	N.D.	N.D.	N.D.	N.D.

Note:
1. mg/kg = milligram per kilogram
2. Limit of Quantitation = 50mg/kg
3. N.D. = Not Detected (< LOQ)

RoHS Testing Flow Chart



Phthalates Testing Flow Chart

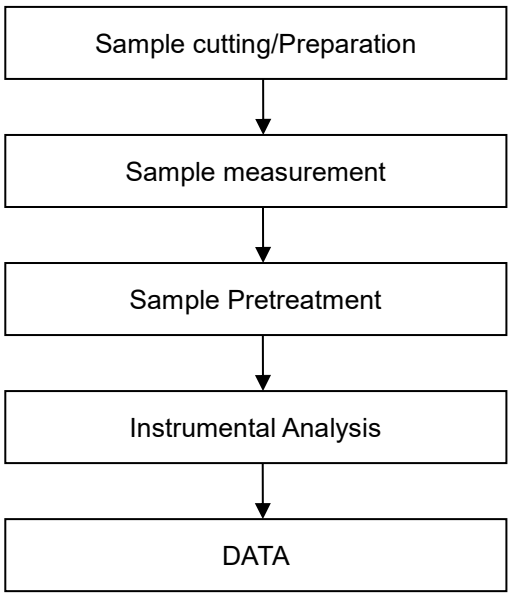
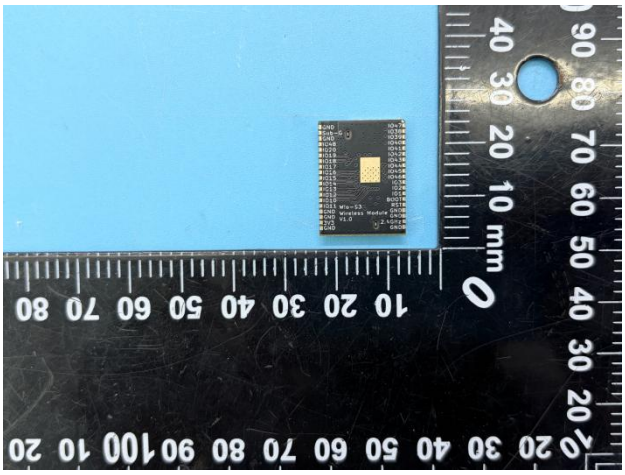
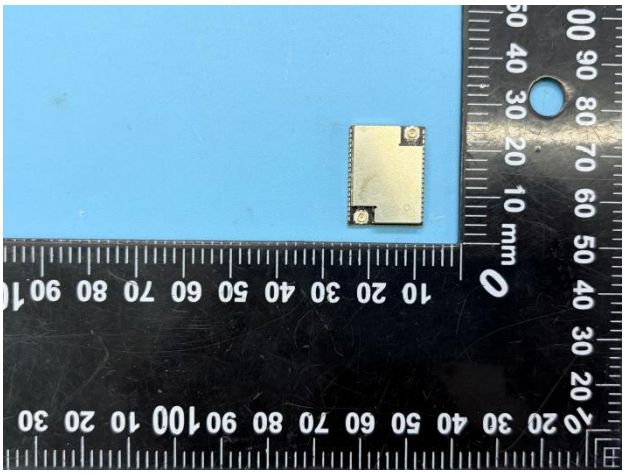


Photo of Sample





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