

Test Report

No.: ESZ2604160155C00008R

Date: Apr. 23, 2026

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Applicant : TONGFU MICROELECTRONICS CO., LTD.
Address : No.288,Chongchuan Road, Nantong, Jiangsu, China

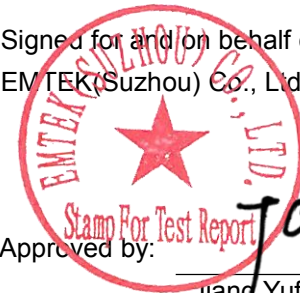
The sample and sample information tested below are provided and confirmed by the applicant

Sample Name : QFN Series
Model : Metal pin, Black body
Received Date : Apr. 16, 2026
Test Period : Apr. 16, 2026~Apr. 23, 2026
Test Summary :

Test Item	Conclusion
Directive 2011/65/EU (RoHS) and its Amendments	N/A
PFOS, PFOA	Pass
Fluorine(F),Chlorine(Cl), Bromine(Br), Iodine(I)	Pass
Antimony(Sb)	N/A
Phthalates	Pass
Hexabromocyclododecan (HBCDD)	Pass

Remark: Pass: Meet the requirement; Fail: Doesn't meet the requirement; N/A: Without conclusions or provide test results only.

Signed for and on behalf of
 EMTEK(Suzhou) Co., Ltd.



Prepared by: Carol
 Zhang Zhifei, Carol

Reviewed by: Damon
 Du Shi, Damon

Approved by: Jason
 Jiang Yufeng, Jason
 Authorized signatory
 Apr. 23, 2026

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Sample Description

(The sample and sample information tested below are provided and confirmed by the applicant)

Sample No.	Sample Number	Quantity
4	E2604160155-04-C	1pc

Summary of Test Results

1. RoHS

1.1 Test Method

Test Item	Test Method
Lead (Pb), Cadmium (Cd)	IEC 62321-5:2013
Mercury (Hg)	IEC 62321-4:2013+A1:2017
Hexavalent Chromium (Cr ⁶⁺)	IEC 62321-7-2:2017
PBBs & PBDEs	IEC 62321-6:2015
DEHP, BBP, DBP, DIBP	IEC 62321-8:2017

1.2 Test Instrument

Instrument Name	Manufacturer	Model
ICP-OES	Agilent	720
UV-Vis	SHIMADZU	UV-1800
GC-MS	Agilent	7890B-5977A
GC-MS	SHIMADZU	QP2010 Ultra

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1.3 Test Result: Limit according to Directive 2011/65/EU (RoHS) and its Amendments

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	4		
Lead (Pb)	N.D.	2	1000
Cadmium (Cd)	N.D.	2	100
Mercury (Hg)	N.D.	2	1000
Hexavalent Chromium (Cr ⁶⁺)	N.D.	8	1000

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	4		
Polybrominated Biphenyls (Mono – Deca) (PBBs)	N.D.	--	1000
Monobromobiphenyl	N.D.	5	--
Dibromobiphenyl	N.D.	5	--
Tribromobiphenyl	N.D.	5	--
Tetrabromobiphenyl	N.D.	5	--
Pentabromobiphenyl	N.D.	5	--
Hexabromobiphenyl	N.D.	5	--
Heptabromobiphenyl	N.D.	5	--
Octabromobiphenyl	N.D.	5	--
Nonabromobiphenyl	N.D.	5	--
Decabromobiphenyl	N.D.	5	--
Polybrominated Diphenylethers (Mono – Deca) (PBDEs)	N.D.	--	1000
Monobromodiphenyl ether	N.D.	5	--
Dibromodiphenyl ether	N.D.	5	--
Tribromodiphenyl ether	N.D.	5	--
Tetrabromodiphenyl ether	N.D.	5	--
Pentabromodiphenyl ether	N.D.	5	--

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Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	4		
Hexabromodiphenyl ether	N.D.	5	--
Heptabromodiphenyl ether	N.D.	5	--
Octabromodiphenyl ether	N.D.	5	--
Nonabromodiphenyl ether	N.D.	5	--
Decabromodiphenyl ether	N.D.	5	--

Test Item	CAS No.	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
		4		
Bis(2-ethylhexyl) phthalate(DEHP)	117-81-7	N.D.	50	1000
Butyl benzyl phthalate (BBP)	85-68-7	N.D.	50	1000
Dibutyl phthalate (DBP)	84-74-2	N.D.	50	1000
Diisobutyl phthalate (DIBP)	84-69-5	N.D.	50	1000

Note:

- 1) N.D. = Not Detected (Less than Detection Limit).
- 2) MDL= Method Detection Limit.
- 3) Specimens, which requested to determine Lead, Cadmium and Mercury content, have been dissolved completely.
- 4) The sample test is based on the applicant's request for a hybrid test, and the results of the mixed test in the report do not represent the content of a single material.

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Test Report

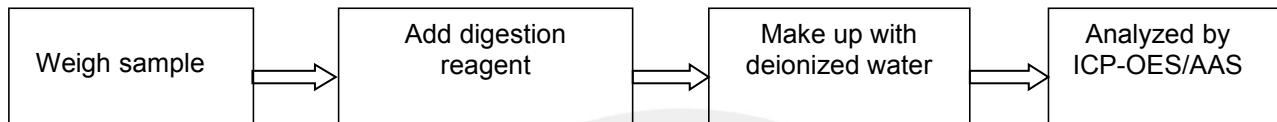
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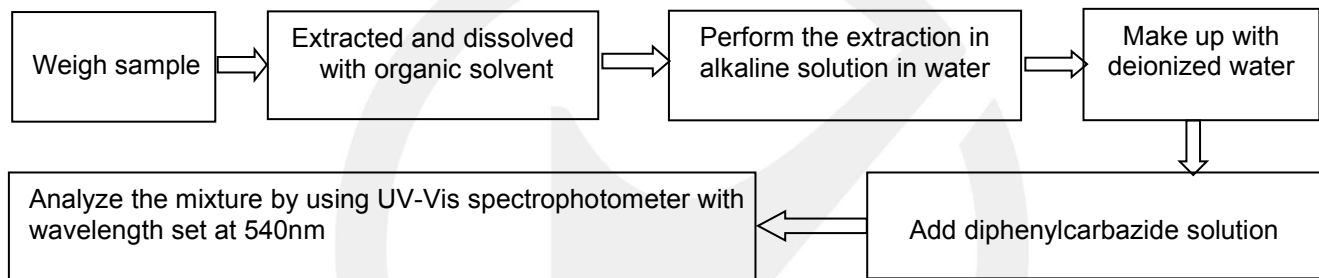
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1.4 Test Flowchart

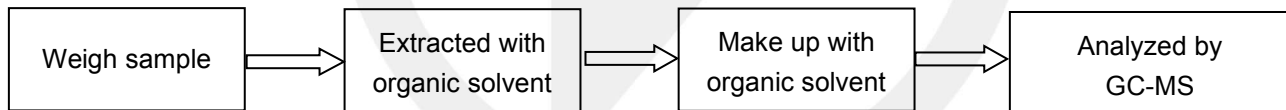
Pb, Cd, Hg Test Process:



Cr⁶⁺ Test Process:



PBBs & PBDEs, DEHP, BBP, DBP, DIBP Test Process:



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2. PFOS, PFOA

2.1 Test Method

Test Item	Test Method
PFOS, PFOA	US EPA 3550C:2007&US EPA 8321B:2007

2.2 Test Instrument

Instrument Name	Manufacturer	Model
LC-MS	SHIMADZU	LCMS-2020

2.3 Test Result

Test Item	Result (mg/kg)	MDL (mg/kg)	Client Limit (mg/kg)
	4		
Perfluorooctane sulfonic acid and its derivatives (PFOS)	N.D.	0.01	0.025
Perfluorooctanoic Acid (PFOA)	N.D.	0.01	0.025

Note

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- 2) MDL= Method Detection Limit.
- 3) The sample test is based on the applicant's request for a hybrid test, and the results of the mixed test in the report do not represent the content of a single material.

3. Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I)

3.1 Test Method

Test Item	Test Method
Fluorine(F), Chlorine(Cl), Bromine(Br), Iodine(I)	EN 14582:2016

3.2 Test Instrument

Instrument Name	Manufacturer	Model
IC	Thermo Fisher	ICS-900

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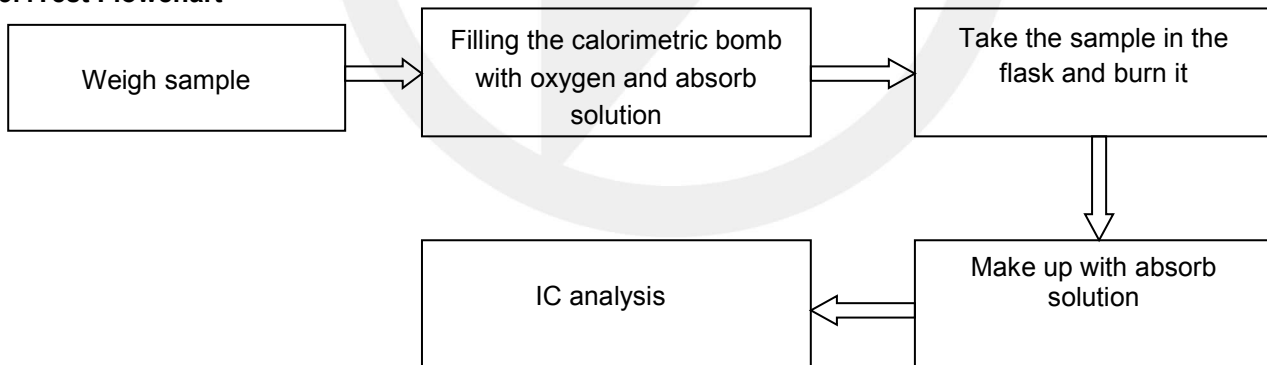
3.3 Test Result: Limit value reference to Halogen-free requirements IEC 61249-2-21: 2003.

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	4		
Fluorine(F)	N.D.	50	----
Chlorine(Cl)	N.D.	50	900
Bromine(Br)	N.D.	50	900
Iodine(I)	N.D.	50	----
Chlorine(Cl)+ Bromine(Br)	N.D.	/	1500

Note

- 1) N.D. = Not Detected (Less than Detection Limit)
- 2) MDL= Method Detection Limit.
- 3) "----": IEC 61249-2-21: 2003 isn't Regulated Limit Requirement.
- 4) The sample test is based on the applicant's request for a hybrid test, and the results of the mixed test in the report do not represent the content of a single material.

3.4 Test Flowchart



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4. Antimony (Sb)

4.1 Test Method

Test Item	Test Method
Antimony (Sb)	US EPA 3052:1996&US EPA 6010D:2018

4.2 Test Instrument

Instrument Name	Manufacturer	Model
ICP-OES	Agilent	5800

4.3 Test Result

Test Item	Result (mg/kg)	MDL (mg/kg)
	4	
Antimony (Sb)	N.D.	10

Note

- 1) N.D. = Not Detected (Less than Detection Limit)
- 2) MDL= Method Detection Limit.
- 3) The sample test is based on the applicant's request for a hybrid test, and the results of the mixed test in the report do not represent the content of a single material.

5. Phthalates

5.1 Test Method

Test Item	Test Method
Phthalates	US EPA 3550C:2007&US EPA 8270E:2018

5.2 Test Instrument

Instrument Name	Manufacturer	Model
GC-MS	SHIMADZU	QP2010 Ultra

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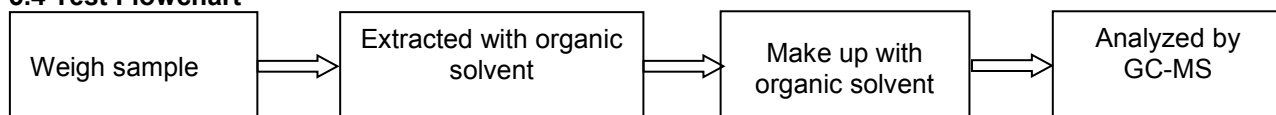
5.3 Test Result: Limit according to the REACH Regulation (EC) NO.1907/2006 Annex XVII

Test Item	CAS No.	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
		4		
Diisononyl phthalate(DINP)	28553-12-0 68515-48-0	N.D.	50	--
Diisoheptyl phthalate(DIDP)	68515-49-1 26761-40-0	N.D.	50	--
Di-n-octyl phthalate(DNOP)	117-84-0	N.D.	50	--
Total(DINP+DIDP+DNOP)	--	N.D.	--	1000
Dihexyl phthalate(DNHP&DHxP)	84-75-3	N.D.	50	--
Dimethyl ortho-phthalate(DMP)	131-11-3	N.D.	50	--
Dichthyl ortho-phthalate(DEP)	84-66-2	N.D.	50	--
Dihexyl phthalate (DHP)	3648-21-3	N.D.	50	--
Dipentyl phthalate(DPP)	131-18-0	N.D.	50	--
Dipropyl phthalate(DPrP)	131-16- 8	N.D.	50	--
Diisooctyl ortho-phthalate(DIOP)	27554-26-3	N.D.	50	--
Dicyclohexyl ortho-phthalate(DCHP)	84-61-7	N.D.	50	--
Diisonoyl adipate(DNP)	84-76-4	N.D.	50	--

Note

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- 2) MDL= Method Detection Limit.
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5.4 Test Flowchart



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6. Hexabromocyclododecan (HBCDD)

6.1 Test Method

Test Item	Test Method
Hexabromocyclododecan (HBCDD)	US EPA 3540C:2007&US EPA 8270E:2018

6.2 Test Instrument

Instrument Name	Manufacturer	Model
GC-MS	Agilent	7890B-5977A

6.3 Test Result: Limit according to the REACH Regulation (EC) NO.1907/2006

Test Item	Result (mg/kg)	MDL (mg/kg)	Limit (mg/kg)
	4		
Hexabromocyclododecan (HBCDD)	N.D.	5	1000

Note

- 1) N.D. = Not Detected (Less than Detection Limit)
- 2) MDL= Method Detection Limit.
- 3) The sample test is based on the applicant's request for a hybrid test, and the results of the mixed test in the report do not represent the content of a single material.

6.4 Test Flowchart



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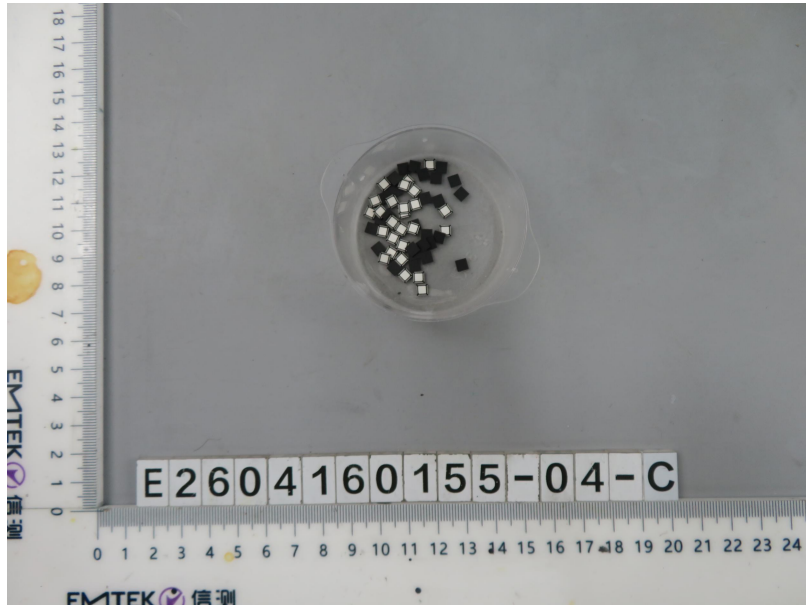
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Sample Photo



*** End of Report ***

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