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Company Name JIANGSU MICRO COMMERCIAL COMPONENTS CO., LTD.

shown on Report

Address NO.68, XINGANQUAN ROAD, HANJIANG DISTRICT, YANGZHOU, CHINA

The following sample(s) and sample information was/were submitted and identified by/on the behalf of the applicant

Sample Name semiconductors
Color Black body
Material semiconductors
Sample Received Date May 5, 2023

Testing Period May 5, 2023 to May 13, 2023

Test Conducted:

金验检测专用章

As requested by the applicant. For details refer to next page(s)

Chen kaimin

Lab Manager

Battre Testing International Pinbiao(Shanghai) Co., Ltd.

May 15, 2023

No. R475319778

No.1351, Wanfang Road, Minhang District, Shanghai, China

Date



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Executive Summary:

TES'	T REQUEST	CONCLUSION
1.	Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic	
	Substances Control Act (TSCA) Section 6(h)	
-	Decabromodiphenyl Ether (DecaBDE)	PASS
-	Phenol, Isopropylated Phosphate (PIP (3:1))	PASS
-	2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)	PASS
-	Hexachlorobutadiene (HCBD)	PASS
-	Pentachlorothiophenol (PCTP)	PASS
2.	As specified by client, to test Arsenic(As), Beryllium(Be), Antimony(Sb),	
	Hexabromocyclododecane (HBCDD), Perfluorooctane Sulfonates(PFOS),	Coo tost masult(s)
	Perfluorooctanoic Acid(PFOA), Polycyclic Aromatic Hydrocarbons (PAHs) in the	See test result(s)
	submitted sample(s).	
	****** For further details, please refer to the following page(s) *****	*****

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1.1Persistent, Bioaccumulative, and Toxic (PBT) Chemicals under US EPA Toxic Substances Control Act (TSCA) Section 6(h)

▼ <u>Decabromodiphenyl Ether (DecaBDE)</u>

Refer to method(s)US EPA 3550C:2007&US EPA 8270E:2018*, and the item(s) was/were analyzed by GC-MS.

Tested Item(s)	Result (mg/kg)	Report Limit	<u>Limit</u>
	006	(mg/kg)	(mg/kg)
Decabromodiphenyl Ether	N.D.	5	N.D.
(DecaBDE)	N.D.	3	IN.D.

Remark:

- N.D. = Not Detected (<Report Limit)
- mg/kg = ppm = parts per million

▼Phenol, Isopropylated Phosphate (PIP (3:1))

Refer to method(s)US EPA 3550C:2007&US EPA 8270E:2018*, and the item(s) was/were analyzed by GC-MS.

T4-4 [4(-)	Result (mg/kg)	Report Limit	<u>Limit</u>
Tested Item(s)	006	(mg/kg)	(mg/kg)
Phenol, Isopropylated	N D	5	ND
Phosphate (PIP (3:1))	N.D.	3	N.D.

Remark

- N.D. = Not Detected (<Report Limit)
- mg/kg = ppm = parts per million

\blacksquare 2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)

Refer to method(s)US EPA 3550C:2007&US EPA 8270E:2018*, and the item(s) was/were analyzed by GC-MS.

T4-1 (-)	Result (mg/kg)	Report Limit	<u>Limit</u>
Tested Item(s)	006	(mg/kg)	(mg/kg)
2,4,6-tris(tert-butyl) phenol (2,4,6-TTBP)	N.D.	5	3000



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Remark:

- N.D. = Not Detected (<Report Limit)
- mg/kg = ppm = parts per million

▼ Hexachlorobutadiene (HCBD)

Refer to method(s)US EPA 3550C:2007&US EPA 8270E:2018*, and the item(s) was/were analyzed by GC-MS.

Tested Item(s)	Result (mg/kg)	Report Limit	<u>Limit</u>
rested item(s)	006	(mg/kg)	(mg/kg)
Hexachlorobutadiene	N D	5	ND
(HCBD)	N.D.	3	N.D.

Remark:

- N.D. = Not Detected (<Report Limit)
- mg/kg = ppm = parts per million

▼ Pentachlorothiophenol (PCTP)

Refer to method(s)US EPA 3550C:2007&US EPA 8270E:2018*, and the item(s) was/were analyzed by GC-MS.

Tastad Itam(s)	Result (mg/kg)	Report Limit	<u>Limit</u>
Tested Item(s)	006	(mg/kg)	(mg/kg)
Pentachlorothiophenol (PCTP)	N.D.	5	10000

Remark:

- N.D. = Not Detected (<Report Limit)
- mg/kg = ppm = parts per million

Sample/Part Description

No. CTI Sample ID Description
1 006 Black body (Tested as a whole)

Remark:

- The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.



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2.1Test Method

Tested Item(s)	Test Method	Measured Equipment(s)	
	Refer to US EPA 3052:1996 &	ICD OF	
Arsenic(As)	US EPA 6010D:2018*	ICP-OES	
Davidiron (Da)	Refer to US EPA 3052:1996 &	ICD OES	
Beryllium(Be)	US EPA 6010D:2018*	ICP-OES	
A	Refer to US EPA 3052:1996 &	ICD OEG	
Antimony(Sb)	US EPA 6010D:2018*	ICP-OES	
Hexabromocyclododecane (HBCDD)	IEC 62321-9:2021	GC-MS	
Doubly area often Sulfanatas (DEOS)	Refer to US EPA 3550C:2007 &	LC-MS-MS/LC-MS	
Perfluorooctane Sulfonates(PFOS)	US EPA 8321B:2007*	LC-IVIS-IVIS/LC-IVIS	
Deufferens estau eig Agil/DEOA)	Refer to US EPA 3550C:2007 &	LC MC MC/LC MC	
Perfluorooctanoic Acid(PFOA)	US EPA 8321B:2007*	LC-MS-MS/LC-MS	
Polycyclic Aromatic Hydrocarbons	D-f4- AFDS CS 2010.01 DAV	CCMC	
(PAHs)	Refer to AfPS GS 2019:01 PAK	GC-MS	

2.2Test Result(s)

Tested Item(s)	Result	MDL	
rested item(s)	006	MIDL	
Arsenic (As)	N.D.	10 mg/kg	

Tested Item(s)	Result	MDL
rested item(s)	006	WIDE
Beryllium (Be)	N.D.	10 mg/kg

Tested Item(s)	Result	MDL
rested item(s)	006	TIPE
Antimony (Sb)	N.D.	10 mg/kg

Tested Item(s)	Result	MDL
Tested Item(s)	006	MIDL
Hexabromocyclododecane (HBCDD)	N.D.	20 mg/kg

Tested Item(s)	Result 006	MDL
Perfluorooctane Sulfonates (PFOS)	N.D.	0.010 mg/kg

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Tested Item(s)	Result	MDL
	006	MIDL
Perfluorooctanoic Acid (PFOA)	N.D.	0.010 mg/kg

Tested Item(s)	Result 006	MDL	
			Polycyclic Aromatic Hydrocarbons (PAHs)
Benzo(a)pyrene	N.D.	0.2 mg/kg	
Benzo(e)pyrene	N.D.	0.2 mg/kg	
Benzo(a)anthracene	N.D.	0.2 mg/kg	
Chrysene	N.D.	0.2 mg/kg	
Benzo(b)fluoranthene	N.D.	0.2 mg/kg	
Benzo(j)fluoranthene	N.D.	0.2 mg/kg	
Benzo(k)fluoranthene	N.D.	0.2 mg/kg	
Dibenzo(a,h)anthracene	N.D.	0.2 mg/kg	
Naphthalene	N.D.	0.2 mg/kg	
Acenaphthylene*	N.D.	0.2 mg/kg	
Acenaphthene*	N.D.	0.2 mg/kg	
Fluorene*	N.D.	0.2 mg/kg	
Phenanthrene	N.D.	0.2 mg/kg	
Anthracene	N.D.	0.2 mg/kg	
Fluoranthene	N.D.	0.2 mg/kg	
Pyrene	N.D.	0.2 mg/kg	
Indenol(1,2,3-cd)pyrene	N.D.	0.2 mg/kg	
Benzo(g,h,i)perylene	N.D.	0.2 mg/kg	
Sum 18 PAHs	N.D.	/	

Sample/Part Description

No. CTI Sample ID Description

1 006 Black body (Tested as a whole)



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Remark: The sample(s) had been dissolved totally tested for Arsenic, Beryllium, Antimony.

The sample(s) was tested as a whole, because it's impossible to disassemble or separate it by current equipment and technology. The result(s) shown on this report may be different from the content of any homogeneous material.

-MDL = Method Detection Limit -N.D. = Not Detected (<MDL) -mg/kg = ppm = parts per million

Note: "*"indicates the item(s)/method(s) is (are) not in CNAS accreditation scope.

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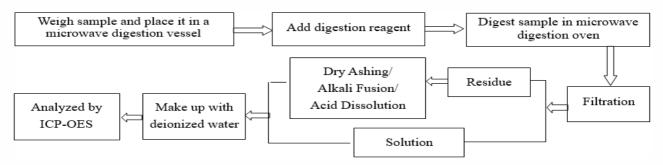


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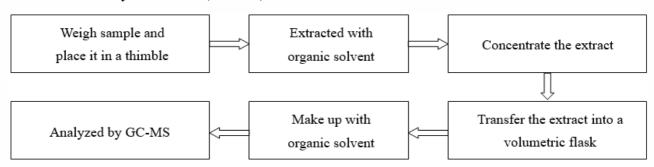
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2.3Test Process

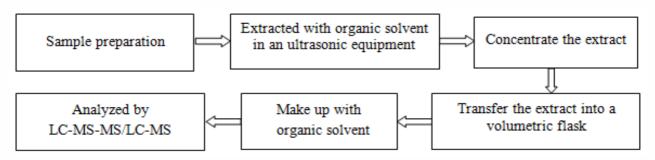
2.3.1. Arsenic(As), Beryllium(Be), Antimony(Sb)



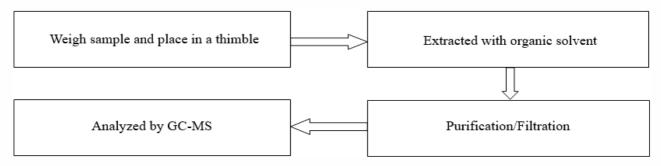
2.3.2. Hexabromocyclododecane (HBCDD)



2.3.3. Perfluorooctane Sulfonates(PFOS), Perfluorooctanoic Acid(PFOA)



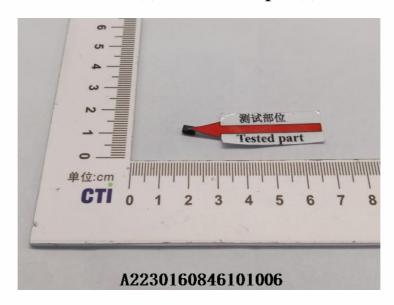
2.3.4. Polycyclic Aromatic Hydrocarbons (PAHs)





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Photo(s) of the sample(s)



Statement:

- 1. This report is considered invalid without approved signature, special seal and the seal on the perforation;
- 2. The Company Name shown on Report and Address, the sample(s) and sample information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified;
- 3. The result(s) shown in this report refer(s) only to the sample(s) tested;
- 4. Without written approval of CTI, this report can't be reproduced except in full;
- 5. In case of any discrepancy between the English version and Chinese version of the testing reports (if generated), the Chinese version shall prevail.

*** End of Report ***



Appendix

Client Reference Information

0201,0201-A,CSP0201,CSP1006-2,DFN-10,DFN1006-2,DFN1006-2L,DFN1006-3,DFN1006-3A, DFN1308-5,DFN1510-6,DFN1608-2,DFN1610-2,DFN1610-6,DFN1616-6,DFN1616-6L, DFN2020-3A,DFN2020-3L,DFN2020-6G,DFN2020-6J,DFN2020-6JA,DFN2020-6L, DFN2020-6LE,DFN2030-6,DFN2030-6L,DFN2626-10,DFN3030,DFN3030-4L, DFN3030-8,DFN3333,DFN3333-8,DFN3333-D,DFN4120-10,DFN5060,DFN5060-8D, DFN5060-8L,DFN8080A,SOD-123,SOD-323,SOD-323FL,SOD-523,SOD-723,SOD-923,SOP-8, SOT-143,SOT-223,SOT-23,SOT-23-3L,SOT23-5L,SOT23-6L,SOT-323,SOT-353,SOT-363,SOT-523, SOT-563,SOT-723,SOT-89,TSSOP-8,0402,0603,SOT-553,DFN1210-6,SOT-883,DFN3810-9, DFN2510-10,DFN3020-10,DFN0808-4,DFN1608-2L,DFN2020-6LA,DFN8080,A-405,AK,DO-15, DO-201AD,DO-201AE,DO-41,R-3,R-6,R-1,D2-PAK,DO-215AA,DO-218AB,DO-221AC,DPAK, LMBS-1,MBLS-1,MBS-1,SDB-1,SDBL-1,SMA,SMB,SMBF,SMC,SME,SMG,SMPA,SOD-123FL, SOD-123HE,SOD-123HE1,SOD-123HT,SOD-323FH,SOD-323HE,TBL,TBS,TO-277, TOLL-8L,SMAE,HSMC,HSMB,HSMA,TO-277B,TBSL,SOD-323HL,SOD-123TFL,TBN,D3K,DB-1, DBL-1,GBJ,GBL,GBP,GBPC,GBPC-H,GBPC-W,GBU,ITO-220AB,ITO-220AC,JA,JB,KBJ,MB-35,MB-35W, MP-50,MP-50W,MT-35A,PB,PB-10,PB-6,RS-4L,RS-6,TO-220,TO-220AB,TO-220AB(H),TO-220AC, TO-220F,TO-247,TO-247-2L,TO-247AB,TO-247AC,TO-247AD,TO-247P,TO-262,TO-262L,TSB-5,TO-92, TO-251,TO-251S,TO-247-4,MT-35B, GBPC-L,D1,D2,D3,F2,F3,F4,F6,FJ,L1,M5,T2,M4,M2,M3,T1,L2,F1 ,M1,F4N,T4,T6,D1N,M7,E1,E1A,E2A,P2,P1,T3,C2,T-18,LEADED BUTTON, PRESSFIT, FBP-02L, MFN-9-1, SOD-882, SOT23-3L, SOT-343, FBP, WFBP, SO-8, OFN, 1206, 2510, TO-92S, T O-92L,TO-92MOD,MSOP-10,0201-B,TO-220AC,SOD-882E,D2PACK,0201-C,DFN1006-2A,DFN1006-2B,DFN10 06-2C,DFN5060-SL,DFN2020-3,DFN2020-6U,DFN5060-8,MELF,RA,SRA,SMAL,SMA-FL,SMAG,SMBG,SMCG, RA BUTTON, SRA BUTTON, TO-277A, DFN2510-10L, TO-126, TO-220AB(H), ITO-220AC,ITO-220,TO-3P,TO-220,TO-1S,TO-39,TO-3,TO-66,RB-15,WOM,WOL,BR-6,BR-8D,KBP,KBPL,KBP C,KBPM,PB-3,GBJL,RS-1,RS-4M,RS-6M,RS-15M,RS-20M,RS-25M,MB-35(W),MP-50(W),MT,MB-1,KBPR,D4,T OLL,DFN1609-2L,BUTTON,KBU,KBJL,ITO-220AB,TO-220AC,D2PACK,DFN2510-10L, DFN2020-6JA, DFN2020-6LA, DFN2030-6L, DFN3030, DFN3333, GBPC-H, TBL, TO-247AD, TOLL, DFN1609-2L, BUTTON, KBU, KBJL, GBPC-W

Statement:

- 1. The Appendix Information was/were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.
- 2. The Appendix Information is/are the supplement(s) for the Report A2230160846101006.