

## TEST REPORT

Report No: MF200630014E

Page 1 of 7

Customer..... : Nanchang Florin Science & Technology Limited Company  
Address..... : Number 328, Lianhe Road, Xiaolan Economy & Technology Development  
Zone, Nanchang County, Jiangxi Province

Sample name..... : Wafer/Chip Cleaner

Sample model..... : HF-CC-05A

Quantity of Sample..... : 1 pc

Other description..... : /

★The customer provides the above information, to which the company assumes no responsibility for the authenticity.

Sample No. .... : F200630028

Sample Received Date... : Jun.30.2020

Completion Date..... : Jul.03.2020

Report Issue Date ..... : Jul.03.2020

### Test Information:

No.	Item	Test Result
1	RoHS (Pb、Cd、Hg、Cr <sup>6+</sup> 、PBBs、PBDEs、DEHP、BBP、DBP、DIBP)	See Appendix 2

Approved: Bill Chen

Shenzhen Meixin Analysis Technology Co., Ltd

# TEST REPORT

Report No: MF200630014E

Page 2 of 7

## Appendix 1

### Sample Photos:



Figure 1. The sample photo of F200630028

# TEST REPORT

Report No: MF200630014E

Page 3 of 7

## Appendix 2

**Test Item: RoHS (Pb、Cd、Hg、Cr<sup>6+</sup>、PBBs、PBDEs、DEHP、BBP、DBP、DIBP)**

### 1. Environment Condition:

Temperature: 24.1°C; Relative humidity: 50%R.H;

### 2. Test Sample:

Sample No.	Sample name	model	Quantity	Sample description
F200630028	Wafer/Chip Cleaner	HF-CC-05A	1 pc	Transparent liquid

### 3. Test Equipment:

No.	Name	Model	Calibration date
1	Inductively Coupled Plasma Optical Emission Spectrometer	Optima 8000	2019.09.27
2	UV-VIS Spectrophotometer	UV-5200	2019.10.09
3	Gas Chromatograph Mass Spectrometer	GCMS-QP2010SE	2019.09.27

### 4. Testing Standard:

Reference to IEC 62321-4:2013+Amd-1:2017 Ammendment 1-Determination of certain substances in electrotechnical products-Part 4: Mercury in polymers, metals and electronics by CV-AAS, CV-AFS, ICP-OES and ICP-MS

Reference to IEC 62321-5:2013 Determination of certain substances in electrotechnical products. Part 5:Cadmium,lead and chromium in polymers and electronics and cadmium and lead in metals by AAS,AFS,ICP-OES and ICP-MS

Reference to IEC 62321-7-2:2017 Determination Of Certain Substances In Electrotechnical Products -Part 7-2:Hexavalent Chromium-Determination Of Hexavalent Chromium (Cr(VI)) In Polymers And Electronics By The Colorimetric Method

Reference to IEC 62321-6:2015 Determination of certain substances in electrotechnical products. Part 6:Polybrominated biphenyls and polybrominated diphenyl ethers in polymers by gas chromatograhya-mass spectrometry (GC-MS)

Reference to IEC 62321-8:2017 Determination Of Certain Substances In Electrotechnical Products-Part 8:Phthalates In Polymers By Gas Chromatography-Mass Spectrometry (Gc-Ms), Gas Chromatography-Mass Spectrometry Using A Pyrolyzer/Thermal Desorption Accessory (Py-Td-Gc-Ms)

### 5. Test Flow:

See Appendix 3

# TEST REPORT

Report No: MF200630014E

Page 4 of 7

## 6. Test Results:

Item	Unit	MDL	Test Results	Limit
Lead (Pb)	mg/kg	2	N.D.	1000
Cadmium(Cd)	mg/kg	2	N.D.	100
Mercury (Hg)	mg/kg	2	N.D.	1000
Hexavalent Chromium(Cr <sup>6+</sup> )	mg/kg	10	N.D.	1000
Monobromobiphenyl	mg/kg	5	N.D.	-
Dibromobiphenyl	mg/kg	5	N.D.	-
Tribromobiphenyl	mg/kg	5	N.D.	-
Tetrabromobiphenyl	mg/kg	5	N.D.	-
Pentabromobiphenyl	mg/kg	5	N.D.	-
Hexabromobiphenyl	mg/kg	5	N.D.	-
Heptabromobiphenyl	mg/kg	5	N.D.	-
Octabromobiphenyl	mg/kg	5	N.D.	-
Nonabromobiphenyl	mg/kg	5	N.D.	-
Decabromobiphenyl	mg/kg	5	N.D.	-
Sum of PBBs	mg/kg	-	N.D.	1000
Monobromodiphenyl ether	mg/kg	5	N.D.	-
Dibromodiphenyl ether	mg/kg	5	N.D.	-
Tribromodiphenyl ether	mg/kg	5	N.D.	-
Tetrabromodiphenyl ether	mg/kg	5	N.D.	-
Pentabromodiphenyl ether	mg/kg	5	N.D.	-
Hexabromodiphenyl ether	mg/kg	5	N.D.	-
Heptabromodiphenyl ether	mg/kg	5	N.D.	-
Octabromodiphenyl ether	mg/kg	5	N.D.	-
Nonabromodiphenyl ether	mg/kg	5	N.D.	-
Decabromodiphenyl ether	mg/kg	5	N.D.	-
Sum of PBDEs	mg/kg	-	N.D.	1000
Bis(2-ethylhexyl) phthalate (DEHP)	mg/kg	50	N.D.	1000
Butyl benzyl phthalate (BBP)	mg/kg	50	N.D.	1000
Dibutyl phthalate (DBP)	mg/kg	50	N.D.	1000
Diisobutyl phthalate (DIBP)	mg/kg	50	N.D.	1000

# TEST REPORT

Report No: MF200630014E

Page 5 of 7

## Remarks:

mg/kg = ppm = parts per million

N.D. = Not Detected (< MDL)

MDL = Method Detection Limit

Limits are derived from the technical specifications of the standard EU RoHS directive 2011/65/EU with amendment (EU) 2015/863.

## Conclusion:

Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs), DEHP, BBP, DBP, DIBP comply with the limits set by RoHS Directive 2011/65/EU with amendment 2015/863/EU.

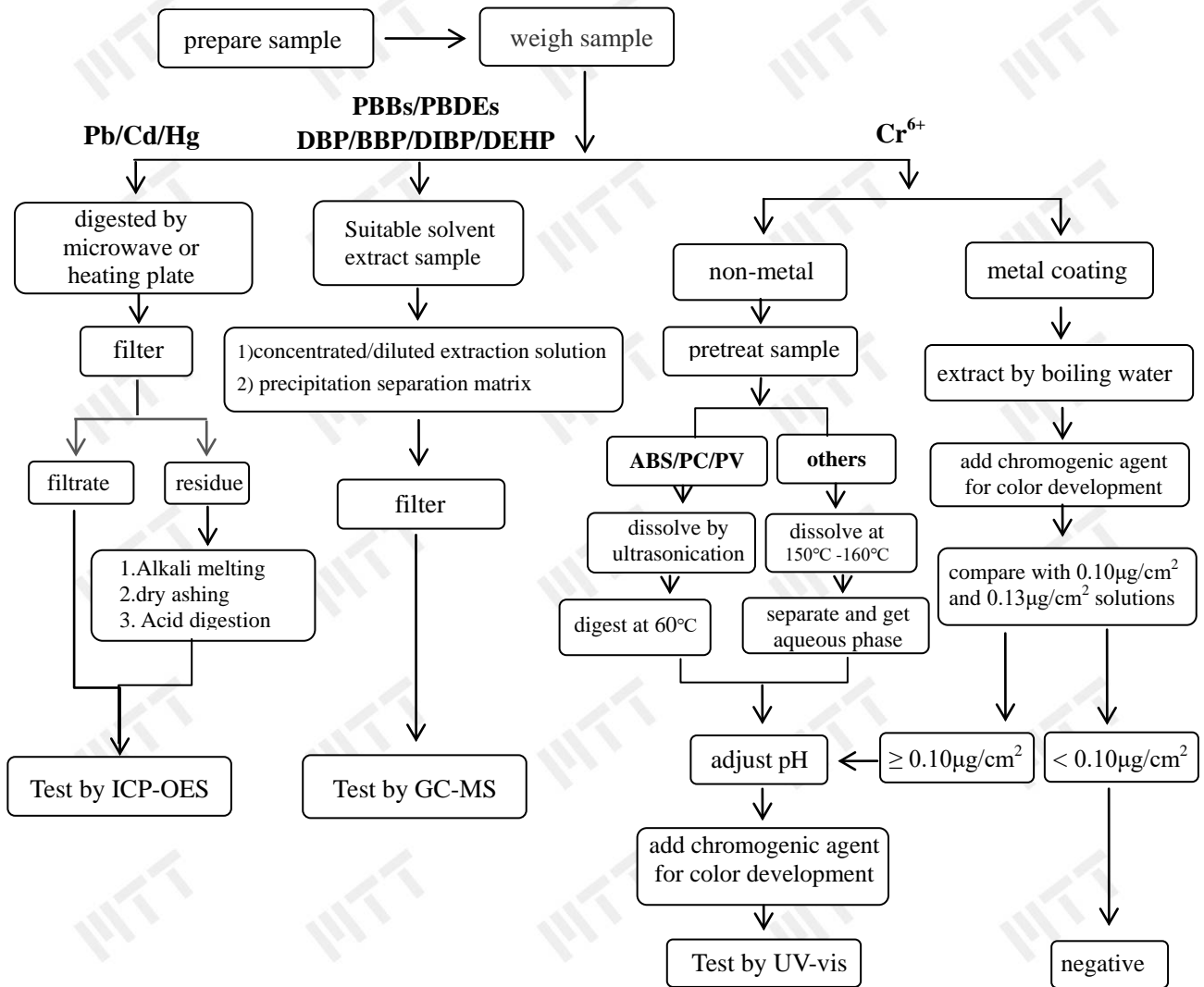
# TEST REPORT

Report No: MF200630014E

Page 6 of 7

## Appendix 3

The sample is digested completely as the following procedure (except Cr<sup>6+</sup>、PBBs/PBDEs、DBP/BBP/DIBP/DEHP).



\*\*\* End of Report \*\*\*

### Statement:

1. This report is considered invalid without the Special Seal of the company and the Special Seal on the perforation.
2. Without written approval of the company, this report can't be reproduced except in full.
3. The customer is responsible for the accuracy, authenticity and completeness of the sample(s) and information

# TEST REPORT

Report No: MF200630014E

Page 7 of 7

submitted by the customer, and the company assumes no responsibility for the accuracy, authenticity and completeness.

4. This report is only responsible for the result(s) of the sample(s) tested, and the result(s) only reflect the evaluation of the sample(s) tested.
5. The result(s) of this report are based on specific time, methods, and applicable standards for the description and testing of the sample(s). Testing under different environmental conditions or using different methods and standards may lead to different conclusions.
6. The result(s) in this report are used for the purpose of corporate internal product research and development, quality control, scientific research, teaching, etc.
7. If there is any objection to the result(s) of this report, it shall submit it in writing to the company within 15 days from the date of issue of the report. Overdue will automatically be deemed to acknowledge the result(s) of this report.