

No.: ETR22305788

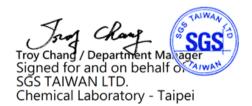
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NUVOTON TECHNOLOGY CORPORATION NO. 4, CREATION RD. III, HSINCHU SCIENCE PARK, TAIWAN, R. O. C.

### The following sample(s) was/were submitted and identified by the applicant as:

Sample Submitted By Sample Name Style/Item No.		:	NUVOTON TECHNOLOGY CORPORATION NUVOTON 150mm FINISHED WAFER AI PROCESS IC WAFER OF NUVOTON
Sample Receiving Dat Testing Period	te	:	24-Mar-2022 24-Mar-2022 to 01-Apr-2022
Test Requested	:	(1)	As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).
Test Results	:	(2)	Please refer to next pages for the other item(s). Please refer to following pages.
Conclusion	:	(1)	Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.





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NUVOTON TECHNOLOGY CORPORATION NO. 4, CREATION RD. III, HSINCHU SCIENCE PARK, TAIWAN, R. O. C.

#### Test Part Description

No.1 : WAFER

### Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	100
Lead (Pb) (CAS No.: 7439-92-1)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+ AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Hexavalent Chromium Cr(VI) (CAS No.: 18540-29-9)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	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	With reference to IEC 62321-6: 2015,	mg/kg	-	n.d.	1000
Monobromodiphenyl ether	analysis was performed by GC/MS.	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

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NUVOTON TECHNOLOGY CORPORATION

NO. 4, CREATION RD. III, HSINCHU SCIENCE PARK, TAIWAN, R. O. C.

Test Item(s)	Method	Unit	MDL	Result No.1	Limit
Butyl benzyl phthalate (BBP) (CAS No.: 85-68-7)		mg/kg	50	n.d.	1000
Dibutyl phthalate (DBP) (CAS No.: 84- 74-2)		mg/kg	50	n.d.	1000
Di-(2-ethylhexyl) phthalate (DEHP) (CAS No.: 117-81-7)		mg/kg	50	n.d.	1000
Diisobutyl phthalate (DIBP) (CAS No.: 84-69-5)		mg/kg	50	n.d.	1000
Diisodecyl phthalate (DIDP) (CAS No.: 26761-40-0, 68515-49-1)		mg/kg	50	n.d.	-
Diisononyl phthalate (DINP) (CAS No.: 28553-12-0, 68515-48-0)	With reference to IEC 62321-8: 2017, analysis was performed by GC/MS.	mg/kg	50	n.d.	-
Di-n-octyl phthalate (DNOP) (CAS No.: 117-84-0)		mg/kg	50	n.d.	-
Di-cyclohexyl phthalate (DCHP) (CAS No.: 84-61-7)		mg/kg	50	n.d.	-
Di-n-pentyl phthalate (DNPP) (CAS No.: 131-18-0)		mg/kg	50	n.d.	-
Di-n-hexyl phthalate (DNHP) (CAS No.: 84-75-3)		mg/kg	50	n.d.	-
Bis(2-methoxyethyl) phthalate (DMEP) (CAS No.: 117-82-8)		mg/kg	50	n.d.	-
Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified ( $\alpha$ - HBCDD, $\beta$ - HBCDD, $\gamma$ - HBCDD) (CAS No.: 25637-99-4, 3194- 55-6 (134237-51-7, 134237-50-6, 134237-52-8))	With reference to IEC 62321-9: 2021, analysis was performed by GC/MS.	mg/kg	20	n.d.	-
Fluorine (F) (CAS No.: 14762-94-8)		mg/kg	50	n.d.	-
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	_
Bromine (Br) (CAS No.: 10097-32-2)	analysis was performed by IC.	mg/kg	50	n.d.	-
lodine (l) (CAS No.: 14362-44-8)		mg/kg	50	n.d.	-
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968: 2010,	mg/kg	0.01	n.d.	-
PFOA and its salts (CAS No.: 335-67-1 and its salts)	analysis was performed by LC/MS/MS.	mg/kg	0.01	n.d.	-

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Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Bisphenol A (CAS No.: 80-05-7)	With reference to RSTS-CHEM-239-1, analysis was performed by LC/MS/MS.	mg/kg	1	n.d.	-
Polyvinyl chloride (PVC)	With reference to ASTM E1252: 2013, analysis was performed by FT-IR and Flame Test.	**	-	Negative	-
Arsenic (As) (CAS No.: 7440-38-2)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Beryllium (Be) (CAS No.: 7440-41-7)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-

### Note :

- 1. mg/kg = ppm ; 0.1wt% = 0.1% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. \*\*= Qualitative analysis (No Unit)
- 6. Negative = Undetectable ; Positive = Detectable
- 7. PFOS and its salts including :

CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.

- 8. PFOA and its salts including :
  - CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
- 9. The statement of compliance conformity is based on comparison of testing results and limits.

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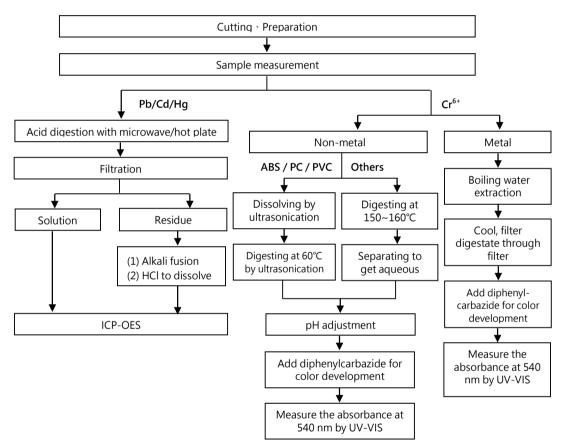
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NUVOTON TECHNOLOGY CORPORATION

NO. 4, CREATION RD. III, HSINCHU SCIENCE PARK, TAIWAN, R. O. C.

### Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.



(  $Cr^{6+}$  test method excluded )

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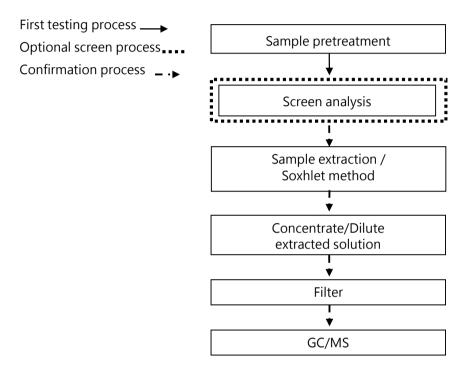
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### Analytical flow chart – PBBs / PBDEs



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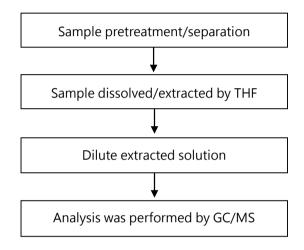
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NUVOTON TECHNOLOGY CORPORATION NO. 4, CREATION RD. III, HSINCHU SCIENCE PARK, TAIWAN, R. O. C.

### Analytical flow chart - Phthalate

### [Test method: IEC 62321-8]



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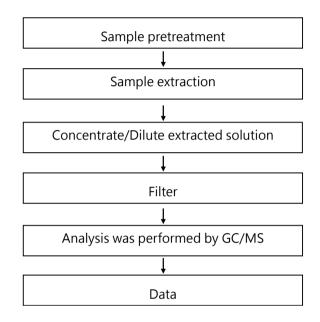
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### Analytical flow chart - HBCDD



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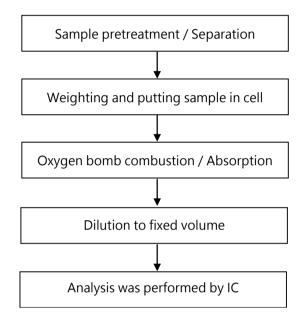
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### Analytical flow chart - Halogen



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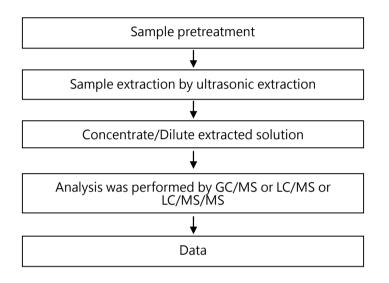
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### Analytical flow chart – PFAS (including PFOA/PFOS/its related compound, etc.)



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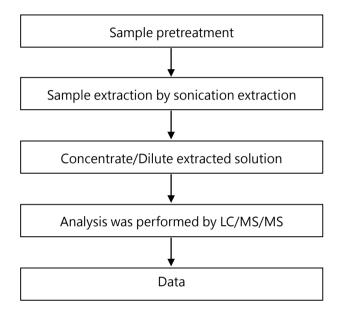
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### Analytical flow chart - Bisphenol A



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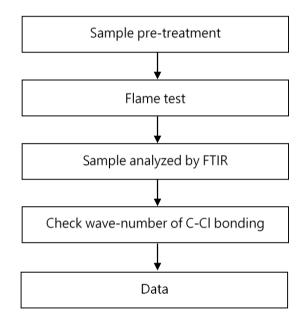
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#### Analysis flow chart - PVC



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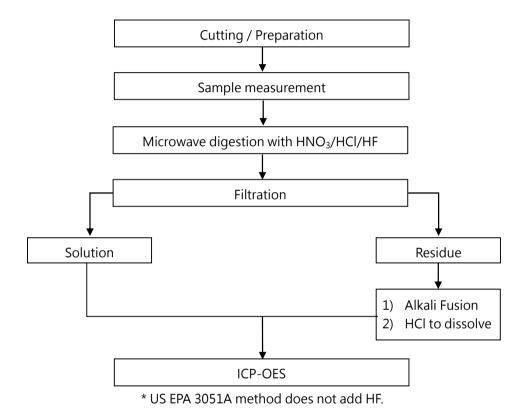
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NUVOTON TECHNOLOGY CORPORATION NO. 4, CREATION RD. III, HSINCHU SCIENCE PARK, TAIWAN, R. O. C.

### Analytical flow chart of Elements (Heavy Metal included)

These samples were dissolved totally by pre-conditioning method according to below flow chart.

【Reference method: US EPA 3051A、US EPA 3052】



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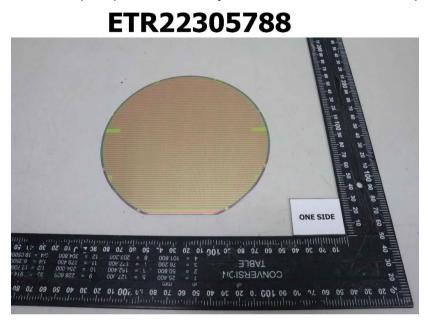
No.: ETR22305788

Date: 01-Apr-2022

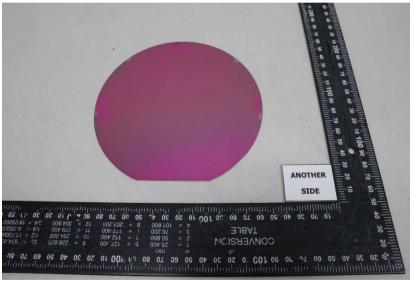
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\* The tested sample / part is marked by an arrow if it's shown on the photo. \*



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\*\* End of Report \*\*

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