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NORDIC SEMICONDUCTOR ASA P.O. 436 SKOYEN, KARENSLYST ALLE 5, N-0213 OSLO, NORWAY



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

Sample Description MICROBLUE CHIP Style/Item No. nRF8001-RxQ32 Buyer/Order No. PO-0002805

Other Info. MANUFACTURED AT ATP

Sample Receiving Date 2012/03/07

Testing Period 2012/03/07 TO 2012/03/14

Please refer to next page(s). Test Result(s)

Conclusion Base upon the performed tests by submitted samples, the test results of PAHs

comply with the PAHs requirement according to (Category 1) of ZEK 01.4-08 of

German ZLS and its amendments.





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Test Result(s)

PART NAME No.1 : MICROBLUE CHIP

| Took Home(a) | Unit | Mathad | MDL | Result |
|---|-------|---|-----|----------|
| Test Item(s) | Unit | Method | MDL | No.1 |
| Cadmium (Cd) | mg/kg | | 2 | n.d. |
| Lead (Pb) | mg/kg | With reference to IEC 62321: 2008 and performed by ICP-AES. | 2 | n.d. |
| Mercury (Hg) | mg/kg | performed by ICF-ALS. | 2 | n.d. |
| Hexavalent Chromium Cr(VI) | mg/kg | With reference to IEC 62321: 2008 and performed by UV-VIS. | 2 | n.d. |
| Antimony (Sb) | mg/kg | With reference to US EPA Method 3050B for Antimony Content. Analysis was performed by ICP-AES. | 2 | n.d. |
| Beryllium (Be) | mg/kg | With reference to US EPA Method 3050B for Beryllium Content. Analysis was performed by ICP-AES. | 2 | n.d. |
| PVC | ** | Analysis was performed by FTIR and FLAME Test. | - | Negative |
| Dimethyl Fumarate (CAS No.: 624-49-7) | mg/kg | With reference to US EPA 3550C method. Analysis was performed by GC/MS. | 0.1 | n.d. |
| Perfluorooctane sulfonates (PFOS-Acid, Metal Salt, Amide) | mg/kg | With reference to US EPA 3540C: 1996 method for PFOS Content. Analysis was performed by LC/MS. | 10 | n.d. |
| PFOA (CAS No.: 335-67-1) | mg/kg | With reference to US EPA 3540C: 1996 method for PFOA Content. Analysis was performed by LC/MS. | 10 | n.d. |
| Halogen | | | | |
| Halogen-Fluorine (F) (CAS No.: 14762-94-8) | mg/kg | | 50 | n.d. |
| Halogen-Chlorine (CI) (CAS No.: 22537- 15-1) | mg/kg | With reference to BS EN 14582:2007. | 50 | n.d. |
| Halogen-Bromine (Br) (CAS No.: 10097-32-2) | mg/kg | Analysis was performed by IC. | 50 | n.d. |
| Halogen-lodine (I) (CAS No.: 14362-44-8) | mg/kg | | 50 | n.d. |



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| Toot Item(a) | Unit | Method | MDL | Result |
|--|-------|---|-------|--------|
| Test Item(s) | Unit | Method | MDL | No.1 |
| Polychlorinated Biphenyls (PCBs) (CAS No.: 1336-36-3) | mg/kg | With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 0.5 | n.d. |
| Polychlorinated Terphenyls (PCTs) | mg/kg | With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 0.5 | n.d. |
| Polychlorinated Naphthalene (PCNs) | mg/kg | With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 5 | n.d. |
| Alkanes, C10-13, chloro (Short Chain Chlorinated Paraffins) (CAS No.: 85535- 84-8) | % | With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 0.01 | n.d. |
| 1,3-Butadiene (CAS No.: 106-99-0) | mg/kg | With reference to US EPA 5021 method. Analysis was performed by GC/MS. | 1 | n.d. |
| BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.01 | n.d. |
| DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.01 | n.d. |
| DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| DBP (Dibutyl phthalate) (CAS No.: 84-74-2) | % | With reference to EN 14372. Analysis was performed by GC/MS. | 0.003 | n.d. |
| 2- (3,5-di-tert-butyl-2-hydroxyphenyl)-2H-benzotriazole (CAS No.: 3846-71-7) | mg/kg | With reference to US EPA 3540C method. Analysis was performed by GC/MS. | 5 | n.d. |
| Organic-tin compounds | | | | |
| Tributyl Tin (TBT) | mg/kg | With reference to DIN 38407-13. Analysis was performed by GC/FPD. | 0.03 | n.d. |
| Triphenyl Tin (TphT) | mg/kg | With reference to DIN 38407-13. Analysis was performed by GC/FPD. | 0.03 | n.d. |



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| Test Item(s) | Unit | Method | MDL | Result |
|--|-------|---|-----|----------|
| Asbestos | | | | No.1 |
| Actinolite (CAS No.: 77536-66-4) | % | | 1 | Negative |
| Amosite (CAS No.: 17330-00-4) | % | - | 1 | Negative |
| Anthophyllite (CAS No.: 77536-67-5) | % | With reference to EPA 600/R-93/116 | 1 | Negative |
| Chrysotile (CAS No.: 17536-67-5) | % | method. Analysis was performed by | 1 | |
| Crocidolite (CAS No.: 12001-29-5) | % | SM, PLM and XRD. | 1 | Negative |
| , | % | 4 | | Negative |
| Tremolite (CAS No.: 77536-68-6) | % | | 1 | Negative |
| Polynuclear Aromatic Hydrocarbons (PAHs) | | | | |
| Acenaphthene (CAS No.: 83-32-9) | mg/kg | | 0.2 | n.d. |
| Acenaphthylene (CAS No.: 208-96-8) | mg/kg | | 0.2 | n.d. |
| Anthracene (CAS No.: 120-12-7) | mg/kg | 1 | 0.2 | n.d. |
| Benzo[a]anthracene (CAS No.: 56-55-3) | mg/kg | 1 | 0.2 | n.d. |
| Benzo[a]pyrene (CAS No.: 50-32-8) | mg/kg | 1 | 0.2 | n.d. |
| Benzo[b]fluoranthene (CAS No.: 205-99-2) | mg/kg | With reference to ZLS standard ZEK 01.4-08 method. Analysis was performed by GC/MS. | 0.2 | n.d. |
| Benzo[g,h,i]perylene (CAS No.: 191-24-2) | mg/kg | | 0.2 | n.d. |
| Benzo[k]fluoranthene (CAS No.: 207-08-9) | mg/kg | | 0.2 | n.d. |
| Chrysene (CAS No.: 218-01-9) | mg/kg | | 0.2 | n.d. |
| Dibenzo[a,h]anthracene (CAS No.: 53-70-3) | mg/kg | | 0.2 | n.d. |
| Fluoranthene (CAS No.: 206-44-0) | mg/kg | 1 | 0.2 | n.d. |
| Fluorene (CAS No.: 86-73-7) | mg/kg | 1 | 0.2 | n.d. |
| Indeno[1,2,3-c,d] pyrene (CAS No.: 193-39-5) | mg/kg | | 0.2 | n.d. |
| Naphthalene (CAS No.: 91-20-3) | mg/kg | 1 | 0.2 | n.d. |
| Phenanthrene (CAS No.: 85-01-8) | mg/kg | 1 | 0.2 | n.d. |
| Pyrene (CAS No.: 129-00-0) | mg/kg | | 0.2 | n.d. |
| Benzo[j]fluoranthene (CAS No.: 205-82-3) | mg/kg | | 0.2 | n.d. |
| Benzo[e]pyrene (CAS No.: 192-97-2) | mg/kg | 1 | 0.2 | n.d. |
| Sum of 18 PAHs | mg/kg | 1 | - | n.d. |



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| Toot Itam(a) | Unit | Method | MDL | Result | |
|---|--------------------------|---|-----|--------|--|
| Test Item(s) | rest item(s) Onit Method | | MDL | No.1 | |
| Sum of PBBs | mg/kg | | - | n.d. | |
| Monobromobiphenyl | mg/kg | 1 | 5 | n.d. | |
| Dibromobiphenyl | mg/kg | 1 | 5 | n.d. | |
| Tribromobiphenyl | mg/kg | 1 | 5 | n.d. | |
| Tetrabromobiphenyl | mg/kg | 1 | 5 | n.d. | |
| Pentabromobiphenyl | mg/kg | 1 | 5 | n.d. | |
| Hexabromobiphenyl | mg/kg | Ι Γ | 5 | n.d. | |
| Heptabromobiphenyl | mg/kg | Ι Γ | 5 | n.d. | |
| Octabromobiphenyl | mg/kg | 1 | 5 | n.d. | |
| Nonabromobiphenyl | mg/kg | 1 | 5 | n.d. | |
| Decabromobiphenyl | mg/kg | With reference to IEC 62321: 2008 and | 5 | n.d. | |
| Sum of PBDEs | mg/kg | performed by GC/MS. | - | n.d. | |
| Monobromodiphenyl ether | mg/kg | 1 | 5 | n.d. | |
| Dibromodiphenyl ether | mg/kg | Ι Γ | 5 | n.d. | |
| Tribromodiphenyl ether | mg/kg | Ι Γ | 5 | n.d. | |
| Tetrabromodiphenyl ether | mg/kg | 1 | 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 | 1 | 5 | n.d. | |
| Decabromodiphenyl ether | mg/kg | 1 | 5 | n.d. | |
| AZO | | | | | |
| 1): 4-AMINODIPHENYL (CAS No.: 92- 67-1) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. | |
| 2): BENZIDINE (CAS No.: 92-87-5) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. | |
| 3): 4-CHLORO-O-TOLUIDINE (CAS No.: 95-69-2) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. | |
| 4): 2-NAPHTHYLAMINE (CAS No.: 91- 59-8) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. | |
| 5): O-AMINOAZOTOLUENE (CAS No.: 97-56-3) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. | |



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| Took Home(a) | l lm:4 | Mothod | MDI | Result |
|---|--------|---|-----|--------|
| Test Item(s) | Unit | Method | MDL | No.1 |
| 6): 2-AMINO-4-NITROTOLUENE (CAS No.: 99-55-8) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 7): P-CHLOROANILINE (CAS No.: 106- 47-8) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 8): 2,4-DIAMINOANISOLE (CAS No.: 615-05-4) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 9): 4,4'-DIAMINODIPHENYLMETHANE (CAS No.: 101-77-9) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 10): 3,3'-DICHLOROBENZIDINE (CAS No.: 91-94-1) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 11): 3,3'-DIMETHOXYBENZIDINE (CAS No.: 119-90-4) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 12): 3,3'-DIMETHYLBENZIDINE (CAS No.: 119-93-7) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 13): 3,3'-DIMETHYL-4,4'- DIAMINODIPHENYLMETHANE (CAS No.: 838-88-0) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 14): P-CRESIDINE (2-METHOXY-5- METHYLANILINE) (CAS No.: 120-71-8) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 15): 4,4'-METHYLENE-BIS- (2- CHLOROANILINE) (CAS No.: 101-14-4) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 16): 4,4'-OXYDIANILINE (CAS No.: 101- 80-4) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 17): 4,4'-THIODIANILINE (CAS No.: 139- 65-1) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 18): O-TOLUIDINE (CAS No.: 95-53-4) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 19): 2,4-TOLUYLENEDIAMINE (CAS No.: 95-80-7) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 20): 2,4,5-TRIMETHYLANILINE (CAS No.: 137-17-7) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 21): O-ANISIDINE (CAS No.: 90-04-0) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 22): P-AMINOAZOBENZENE (CAS No.: 60-09-3) | mg/kg | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |



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| Test Item(s) | Unit | Method | MDL | Result |
|--------------------------------------|-------|--|------|--------|
| rest item(s) | Oilit | Wiethod | MIDL | No.1 |
| 23): 2,4-XYLIDINE (CAS No.: 95-68-1) | | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |
| 24): 2,6-XYLIDINE (CAS No.: 87-62-7) | | With reference to LFGB 82.02-2. Analysis was performed by GC/MS. | 3 | n.d. |

Note:

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. n.d. = Not Detected
- 3. MDL = Method Detection Limit
- 4. " " = Not Regulated
- 5. ** = Qualitative analysis (No Unit)
- 6. Negative = Undetectable / Positive = Detectable
- 7. Asbestos : Negative = "< 1.0 %", Positive = "> 1.0 %"

Reference information for PAHs:

Requirement of ZEK 01.4-08: Restraining maximum values for products

| Parameter | Category 1 | Category 2 | Category 3 |
|---------------------------|---|--|--|
| | in the mouth or toys for | category 1 with foreseeable contact to skin for longer | Materials not falling under category 1 or 2 with foreseeable contact to skin for less than 30 seconds (short-term skin contact). |
| Benzo[a]pyrene (mg/kg) | <mdl (<0.2)**<="" td=""><td>1</td><td>20</td></mdl> | 1 | 20 |
| Sum of 18 PAH (mg/kg)* | <mdl (<0.2)**<="" td=""><td>10</td><td>200</td></mdl> | 10 | 200 |

Remark:

- * = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs
- ** = If the limits of category 1 are surpassed but the limits of category 2 still met, the confirmation of suitability of contact with foodstuff or the oral mucosa can be verified by an additional specific migration test of the PAH components according to EN 1186 ff. and § 64 LFBG 80.30-1. The results of the migration test shall be evaluated according to law criteria for foodstuff.



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PFOS Reference Information: POPs - (EU) 757/2010

Outlawing PFOS as substances or preparations in concentrations above 0.001% (10ppm), in semi-finished products or articles or parts at a level above 0.1%(1000ppm), in textiles or other coated materials above 1µg/m².

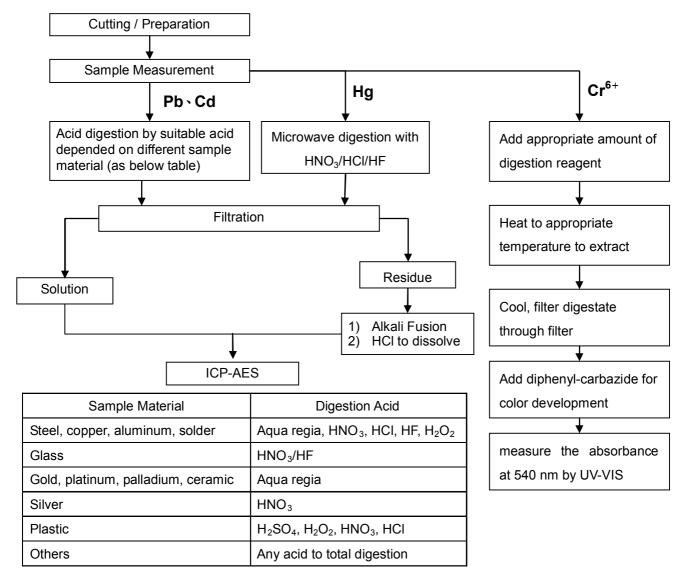


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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr⁶⁺ test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang





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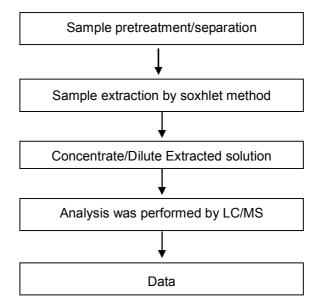
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Analytical flow chart of Soxhlet extraction (LC/MS) procedure

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

[Test Items: PFOS/PFOA · Benzotriazole]





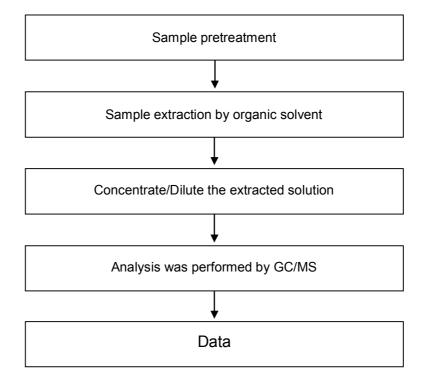
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Chlorinated Flame retardant analytical flow chart

- 1) Name of the person who made measurement: Barry Tseng
- 2) Name of the person in charge of measurement: Troy Chang
- Reference method: US EPA 8270D, US EPA 3540
- Test Items: PCBs, PCNs, PCTs, Mirex, CP, MCCP





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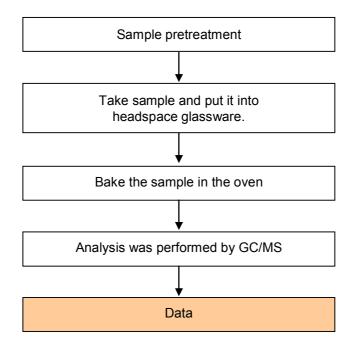
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Analytical flow chart of volatile organic compounds (VOCs)

- Name of the person who made measurement: Chun Wu
- Name of the person in charge of measurement : Shinjyh Chen

[Reference method : US EPA 5021]





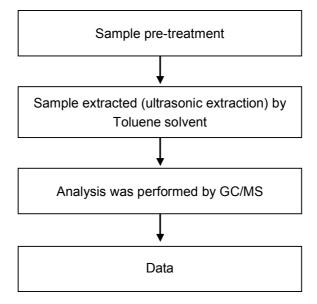
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PAHs (Polynuclear Aromatic Hydrocarbons) analytical flow chart

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang





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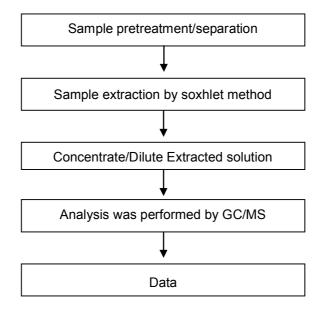
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Analytical flow chart of Soxhlet extraction (GC/MS) procedure

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

[Test Items: Phthalate \ Benzotriazole \ HBCDD \ NP \ DBBT \ Organic phosphorus compounds]





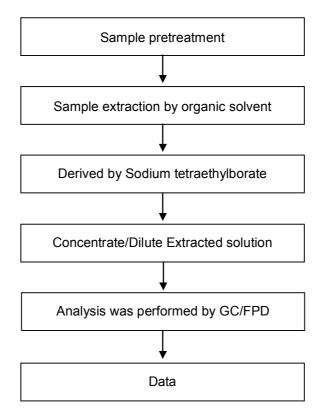
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Analytical flow chart of Organic-Tin content

- Name of the person who made measurement: Ginny Chen
- Name of the person in charge of measurement: Troy Chang





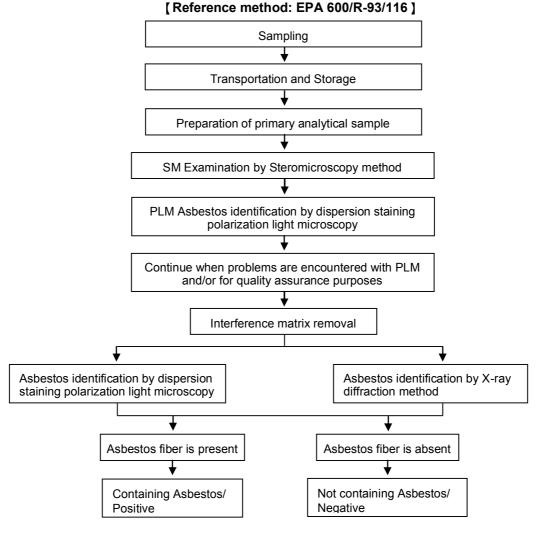
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Analysis flow chart for determination of Asbestos

- 1) Name of the person who made measurement: Victor Kao
- 2) Name of the person in charge of measurement: Wendy Wei





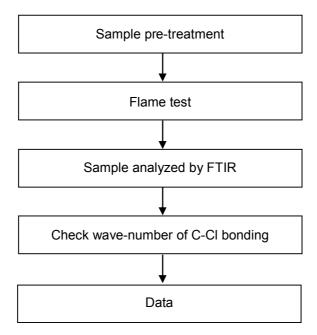
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Analysis flow chart for determination of PVC in material

- Name of the person who made measurement: Ginny Chen
- Name of the person in charge of measurement: Troy Chang





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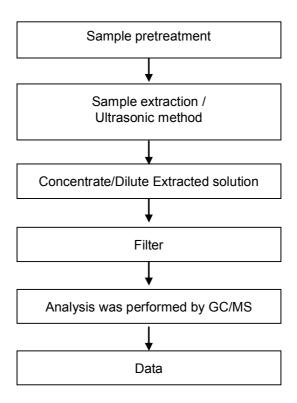
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Analytical flow chart of Ultrasonic extraction (GC/MS) procedure

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

[Test Items: HBCDD \ Dimethyl Fumarate \ PAHs \ AP \ Ethylene glycol ether \ 1-methyl-2-pyrrolidone





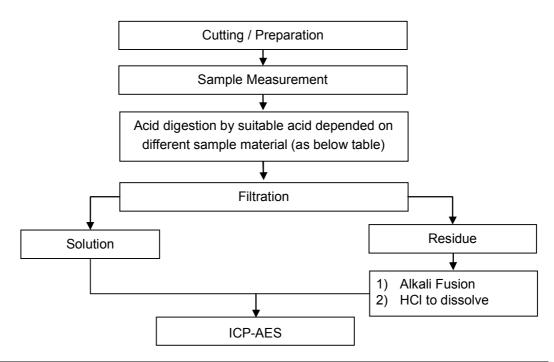
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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart.
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang

Flow Chart of digestion for the elements analysis performed by ICP-AES



| Steel, copper, aluminum, solder | Aqua regia, HNO 3, HCl, HF, H ₂ O ₂ |
|------------------------------------|---|
| Glass | HNO ₃ /HF |
| Gold, platinum, palladium, ceramic | Aqua regia |
| Silver | HNO ₃ |
| Plastic | H ₂ SO ₄ , H ₂ O ₂ , HNO ₃ , HCI |
| Others | Any acid to total digestion |



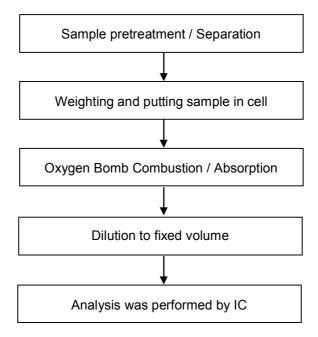
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Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang





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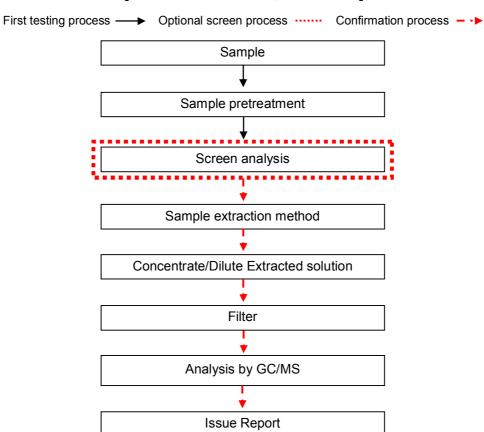
NORDIC SEMICONDUCTOR ASA P.O. 436 SKOYEN, KARENSLYST ALLE 5, N-0213 OSLO, NORWAY



Analytical flow chart

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang

[Test Items: PBB/PBDE, TBBP-A-bis]





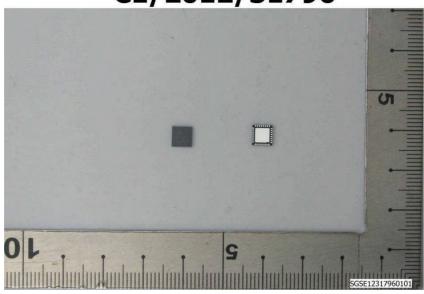
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* The tested sample / part is marked by an arrow if it's shown on the photo. *

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** End of Report **