



Test Report

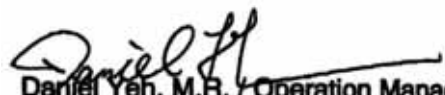
NORDIC SEMICONDUCTOR
P. O. BOX 436 SKOYEN N-0213 OSLO NORWAY

Report No. : CE/2004/C4115
Date : 2004/12/29
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The following merchandise was (were) submitted and identified by the client as :

Type of Product : IC TRANCEIVERS
Style/Item No : NRF24E1G/ NRF24E2G
P. O./ Ref. No. : 283/ 04
Manufacturer/Vendor : NORDIC SEMICONDUCTOR
Country of Origin : NORWAY
Sample Received : 2004/12/22
Testing Date : 2004/12/22 TO 2004/12/29

=====
Test Result : - Please see the next page -


Daniel Yeh, M.R. / Operation Manager
Signed for and on behalf of
SGS TAIWAN LTD.

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Test Result

PART NAME NO.1 : MIXED ALL PARTS (PLEASE REFER TO THE PHOTO ATTACHED)

| Test Item (s): | Unit | Method | MDL | Result | | | | | |
|------------------------------------|------|--|-----|----------|--|--|--|--|--|
| | | | | No.1 | | | | | |
| Asbestos | | | | | | | | | |
| Anthrophyllite(CAS NO.017068-78-9) | ** | As per NIOSH 9000 method. Analysis was performed by XRD. | - | Negative | | | | | |
| Crocidolite(CAS NO.012001-28-4) | ** | As per NIOSH 9000 method. Analysis was performed by XRD. | - | Negative | | | | | |
| Amosite(CAS NO.012172-73-5) | ** | As per NIOSH 9000 method. Analysis was performed by XRD. | - | Negative | | | | | |
| Tremolite(CAS NO.014567-73-8) | ** | As per NIOSH 9000 method. Analysis was performed by XRD. | - | Negative | | | | | |
| Chrysotile(CAS NO.012001-29-5) | ** | As per NIOSH 9000 method. Analysis was performed by XRD. | - | Negative | | | | | |
| Actinolite(CAS NO.013768-00-8) | ** | As per NIOSH 9000 method. Analysis was performed by XRD. | - | Negative | | | | | |

| Test Item (s): | Unit | Method | MDL | Result | | | | | |
|---------------------------------------|------|----------------------------------|-----|--------|--|--|--|--|--|
| | | | | No.1 | | | | | |
| AZO | | As per LMBG 8202-2 | | | | | | | |
| 4-AMINODIPHENYL (CAS NO.92-67-1) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | | |
| BENZIDINE (CAS NO.92-87-5) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | | |
| 4-CHLORO-O-TOLUIDINE (CAS NO.95-69-2) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | | |
| 2-NAPHTHYLAMINE (CAS NO.91-59-8) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | | |

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| Test Item (s): | Unit | Method | MDL | Result | | | | |
|---|------|-------------------------------------|-----|--------|--|--|--|--|
| | | | | No.1 | | | | |
| O-AMINOAZOTOLUENE (CAS NO.97-56-3) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| 2-AMINO-4- NITROTOLUENE (CAS NO.99-55-8) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| P-CHLOROANILINE (CAS NO.106-47-8) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| 2,4-DIAMINOANISOLE (CAS NO.615-05-4) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| 4,4- DIAMINODIPHENYLMETHA NE (CAS NO.101-77-9) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| 3,3-DICHLOROBENZIDINE (CAS NO.91-94-1) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| 3,3- DIMETHOXYBENZIDINE (CAS NO.119-90-4) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| 3,3-DIMETHYLBENZIDINE (CAS NO.119-93-7) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| 3,3-DIMETHYL-4,4- DIAMINODIPHENYLMETHA NE (CAS NO.838-88-0) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| P-CRESIDINE(2-METHOXY- 5-METHYLANILINE) (CAS NO.120-71-8) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| 4,4-METHYLENE-BIS-(2- CHLORANILINE) (CAS NO.101-14-4) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| 4,4-OXYDIANILINE (CAS NO.101-80-4) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| 4,4-THIODIANILINE (CAS NO.139-65-1) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| O-TOLUIDINE (CAS NO.95- 53-4) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |

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|---|------|-------------------------------------|-----|--------|--|--|--|--|
| | | | | No.1 | | | | |
| 2,4-TOLUYLENDIAMINE (CAS NO.95-80-7) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| 2,4,5-TRIMETHYLANILINE (CAS NO.137-17-7) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| O-ANISIDINE (CAS NO.90- 04-0) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |
| P-AMINOAZOBENZENE (CAS NO.60-09-3) | ppm | Analysis was performed by GC/MS. | 3 | N.D. | | | | |

| Test Item (s): | Unit | Method | MDL | Result | | | | |
|---|------|-------------------------------------|------|--------|--|--|--|--|
| | | | | No.1 | | | | |
| Chlorinated Paraffin (C10~C13) (CAS NO:010871-26-2) | % | Analysis was performed by GC/MS. | 0.01 | N.D. | | | | |

| Test Item (s): | Unit | Method | MDL | Result | | | | |
|-------------------------------------|------|---|-----|--------|--|--|--|--|
| | | | | No.1 | | | | |
| Formaldehyde(CAS No:000050-00-0) | ppm | With reference to DIN 53315 & USEPA 8315A. Analysis was performed by HPLC/DAD/MS | 0.2 | N.D. | | | | |

| Test Item (s): | Unit | Method | MDL | Result | | | | |
|---|------|--|------|--------|--|--|--|--|
| | | | | No.1 | | | | |
| Organic-tin compounds | | | | | | | | |
| Triphenyl Tin(TPT)(CAS NO:000668-34-8) | ppm | With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD. | 0.03 | N.D. | | | | |
| Tributyl Tin(TBT) | ppm | With reference to 83/677/EEC & DIN 38407. Analysis was performed by GC/FPD. | 0.03 | N.D. | | | | |

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| Test Item (s): | Unit | Method | MDL | Result | | | | | |
|--|------|---|--------|--------|--|--|--|--|--|
| | | | | No.1 | | | | | |
| PBBs(Polybrominated biphenyls)(CAS NO:059536-65-1) | % | With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC) | 0.0005 | N.D. | | | | | |
| PBBEs(PBDEs)(Polybrominated biphenyl ethers) | % | With reference to USEPA3540 or USEPA3550. Analysis was performed by HPLC/DAD, LC/MS or GC/MS. (prohibited by 2002/95/EC (RoHS), 83/264/EEC, and 76/769/EEC) | 0.0005 | N.D. | | | | | |

| Test Item (s): | Unit | Method | MDL | Result | | | | | |
|---|------|---|-----|--------|--|--|--|--|--|
| | | | | No.1 | | | | | |
| PCBs(Polychlorinated Biphenyls)(CAS NO:001336-36-3) | ppm | With reference to USEPA 8082A. Analysis was performed by GC/ECD/MS. | 0.5 | N.D. | | | | | |

| Test Item (s): | Unit | Method | MDL | Result | | | | | |
|-----------------------------|------|---|-----|--------|--|--|--|--|--|
| | | | | No.1 | | | | | |
| Polychlorinated Naphthalene | ppm | With reference to UESPA 8081B. Analysis was performed by GC/MS. | 5 | N.D. | | | | | |

| Test Item (s): | Unit | Method | MDL | Result | | | | | |
|----------------------------|------|--|-----|----------|--|--|--|--|--|
| | | | | No.1 | | | | | |
| PVC free(CAS No:9002-86-2) | ** | Analysis was performed by FTIR/ATR and Pyro-GC/MS. | - | Negative | | | | | |

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| Test Item (s): | Unit | Method | MDL | Result | | | | |
|--------------------|------|--|-----|--------|--|--|--|--|
| | | | | No. 1 | | | | |
| Chromium VI (Cr+6) | ppm | As per US EPA 7196A and US EPA 3060A. | 2 | N.D. | | | | |
| Cadmium (Cd) | ppm | ICP-AES after as per EN 1122, method B:2001 or other acid digestion. | 2 | N.D. | | | | |
| Mercury (Hg) | ppm | ICP-AES after as per US EPA 3052 or other acid digestion. | 2 | N.D. | | | | |
| Lead (Pb) | ppm | ICP-AES after as per US EPA 3050B or other acid digestion. | 2 | N.D. | | | | |

- NOTE : (1) N.D. = Not detected (<MDL)
(2) ppm = mg/kg
(3) MDL = Method Detection Limit
(4) " - " = No Regulation
(5) ** = Qualitative analysis (No Unit)
(6) Negative = Undetectable / Positive = Detectable



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