# LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101118\
Data File : VN051816.D
Acq On : 11 Oct 2018 17:05
Operator : MD\SY
Sample : J5324-03
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 28

**Instrument :** MSVOA_N
**ClientSampleId :** OILY-WATER

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
Title : SW846 8260

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.310 | 158 | 167 | 182 | rVB | 299633 | 468139 | 4.82% | 0.959% |
| 2 | 3.281 | 452 | 469 | 504 | rBV | 248446 | 614058 | 6.33% | 1.258% |
| 3 | 3.821 | 619 | 637 | 676 | rBV | 256448 | 684440 | 7.05% | 1.402% |
| 4 | 6.551 | 1468 | 1486 | 1502 | rBV4 | 42574 | 125020 | 1.29% | 0.256% |
| 5 | 7.593 | 1787 | 1810 | 1821 | rBV | 615629 | 1539410 | 15.86% | 3.153% |
| 6 | 7.667 | 1821 | 1833 | 1852 | rVB | 1195422 | 2819968 | 29.05% | 5.775% |
| 7 | 8.030 | 1929 | 1946 | 1968 | rBV | 583000 | 1364989 | 14.06% | 2.795% |
| 8 | 8.587 | 2101 | 2119 | 2147 | rBV | 1510973 | 3193624 | 32.90% | 6.540% |
| 9 | 9.172 | 2288 | 2301 | 2323 | rVB5 | 50593 | 123344 | 1.27% | 0.253% |
| 10 | 10.091 | 2570 | 2587 | 2616 | rBV | 2383989 | 4471871 | 46.07% | 9.158% |
| 11 | 11.410 | 2982 | 2997 | 3020 | rBV | 2013754 | 3599911 | 37.09% | 7.372% |
| 12 | 12.403 | 3291 | 3306 | 3329 | rBV | 1670433 | 2760157 | 28.44% | 5.653% |
| 13 | 12.873 | 3438 | 3452 | 3463 | rBV4 | 56024 | 100319 | 1.03% | 0.205% |
| 14 | 13.011 | 3478 | 3495 | 3508 | rBV3 | 60850 | 119643 | 1.23% | 0.245% |
| 15 | 13.088 | 3509 | 3519 | 3530 | rVV | 185237 | 279808 | 2.88% | 0.573% |
| 16 | 13.194 | 3540 | 3552 | 3567 | rBV | 810317 | 1252875 | 12.91% | 2.566% |
| 17 | 13.345 | 3587 | 3599 | 3609 | rBV | 1913626 | 3172295 | 32.68% | 6.497% |
| 18 | 13.406 | 3609 | 3618 | 3625 | rVV | 531689 | 874253 | 9.01% | 1.790% |
| 19 | 13.448 | 3625 | 3631 | 3657 | rVB | 513763 | 816810 | 8.41% | 1.673% |
| 20 | 13.821 | 3737 | 3747 | 3760 | rBV2 | 107635 | 178671 | 1.84% | 0.366% |
| 21 | 14.123 | 3826 | 3841 | 3854 | rBV | 423842 | 666206 | 6.86% | 1.364% |
| 22 | 14.207 | 3855 | 3867 | 3888 | rBV | 1054425 | 1649700 | 17.00% | 3.378% |
| 23 | 14.313 | 3888 | 3900 | 3903 | rBV | 1310842 | 1871239 | 19.28% | 3.832% |
| 24 | 14.342 | 3903 | 3909 | 3931 | rVB | 3219060 | 5032100 | 51.84% | 10.305% |
| 25 | 14.670 | 3999 | 4011 | 4043 | rBV | 6463851 | 9706793 | 100.00% | 19.879% |
| 26 | 14.850 | 4056 | 4067 | 4092 | rVB | 311893 | 581808 | 5.99% | 1.192% |
| 27 | 14.995 | 4102 | 4112 | 4119 | rBV | 215272 | 336260 | 3.46% | 0.689% |
| 28 | 15.043 | 4119 | 4127 | 4139 | rVB2 | 280272 | 426018 | 4.39% | 0.872% |

Sum of corrected areas: 48829729

LSC Report - Integrated Chromatogram

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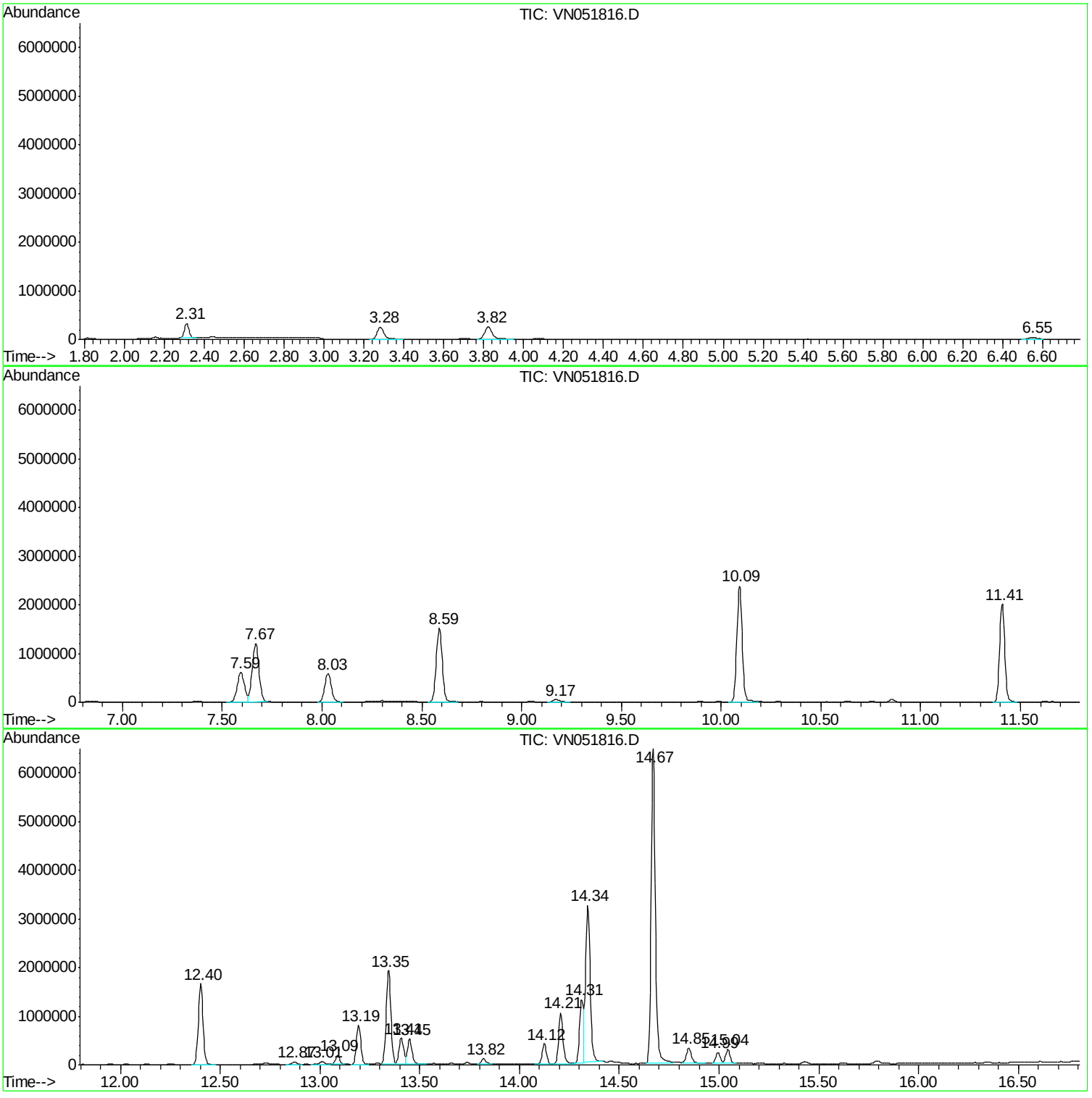
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 28

**Instrument :**
MSVOA_N
**ClientSampleId :**
OILY-WATER

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P



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TIC Integration Parameters: LSCINT.P

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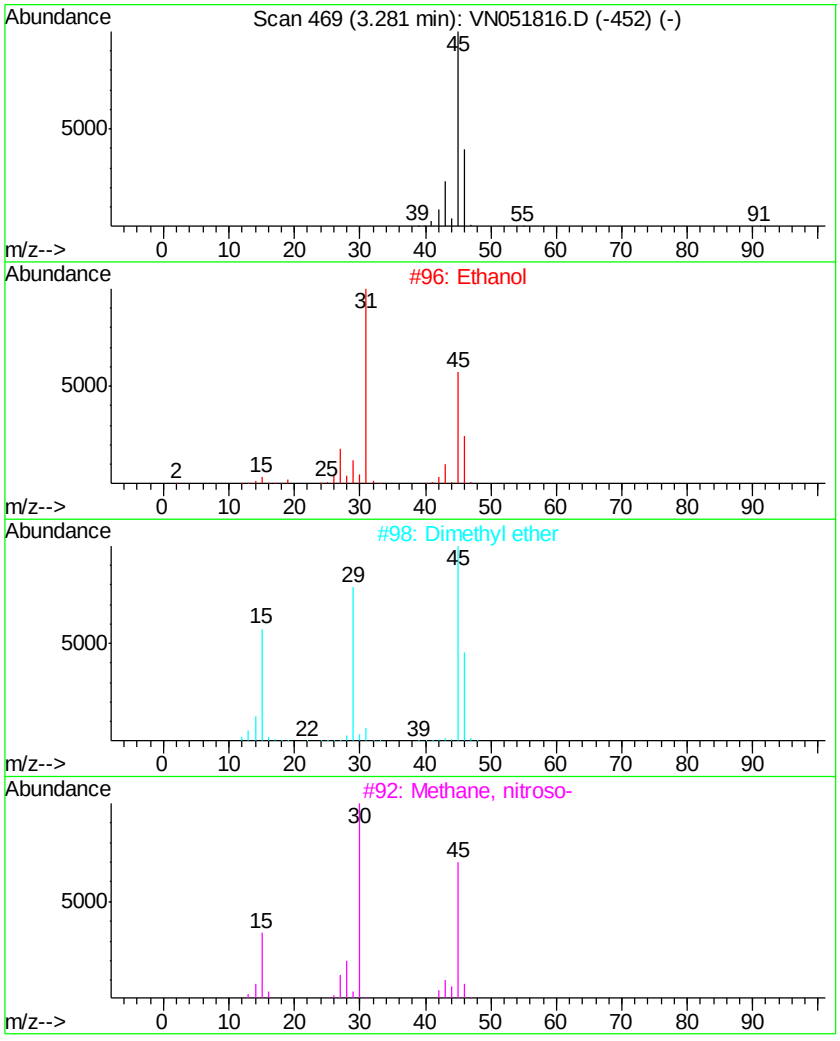
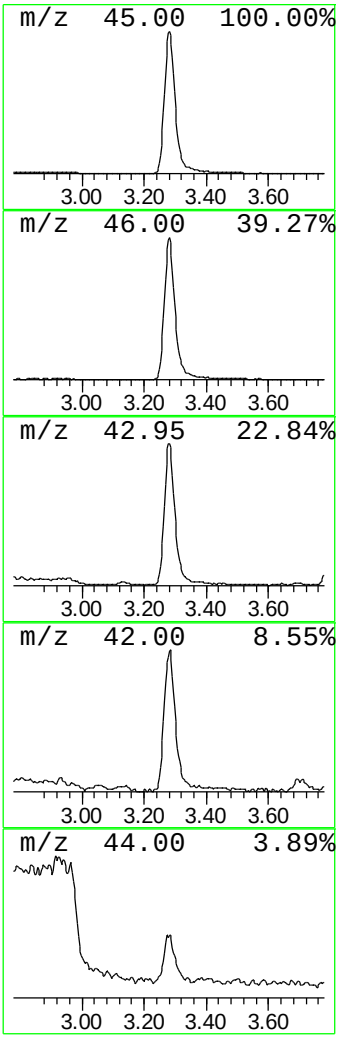
Peak Number 1 Ethanol Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.28 | 10.89 ug/l | 614058 | Pentafluorobenzene | 7.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Ethanol | 46 | C2H6O | 000064-17-5 | 74 |
| 2 | Dimethyl ether | 46 | C2H6O | 000115-10-6 | 9 |
| 3 | Methane, nitroso- | 45 | CH3NO | 000865-40-7 | 4 |
| 4 | Formic acid | 46 | CH2O2 | 000064-18-6 | 4 |
| 5 | Oxalic acid | 90 | C2H2O4 | 000144-62-7 | 4 |



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ALS Vial : 16 Sample Multiplier: 28

**Instrument :** MSVOA_N
**ClientSampleId :** OILY-WATER

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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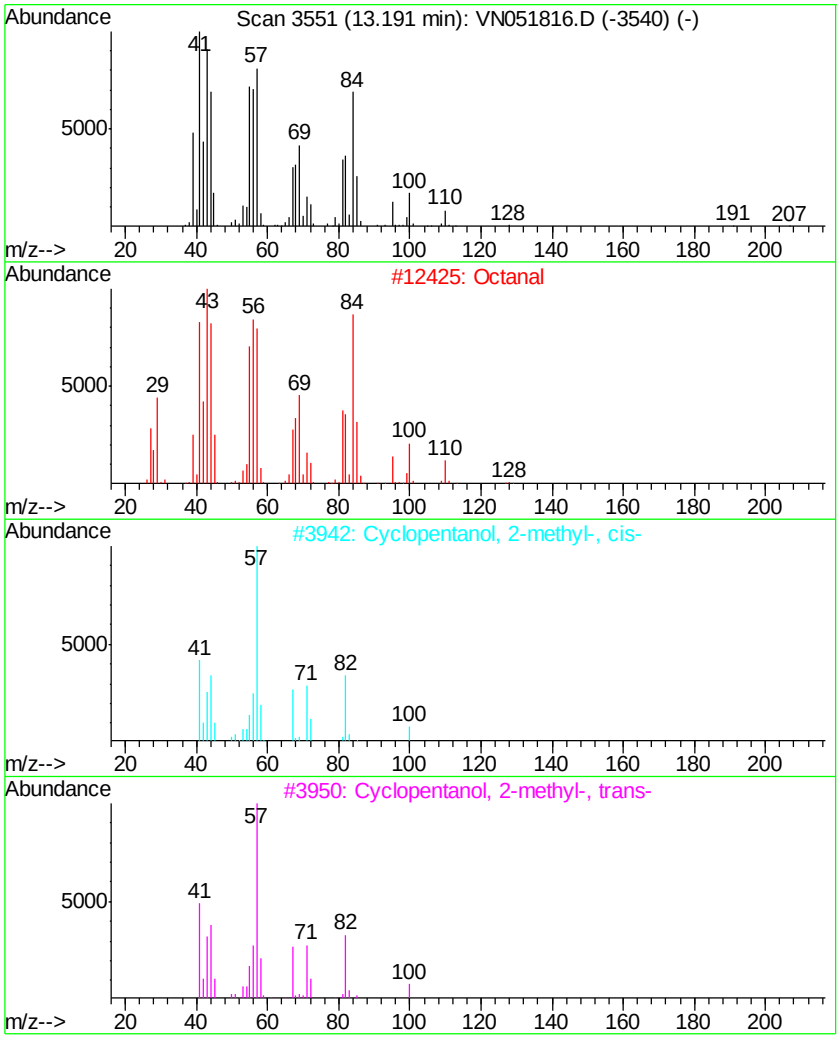
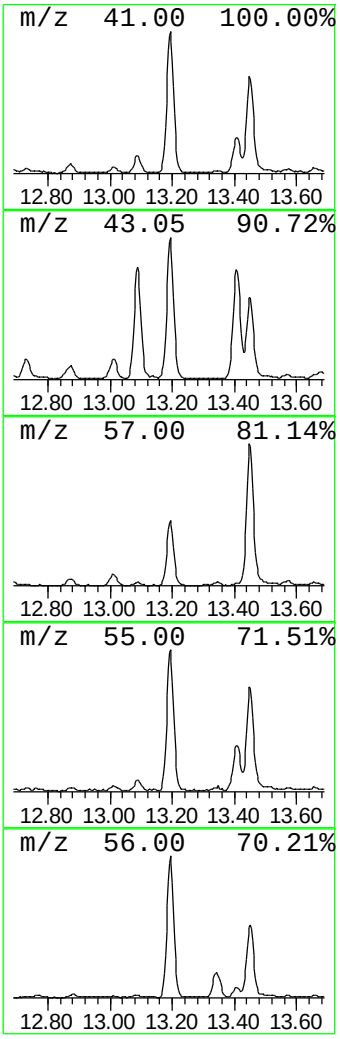
Peak Number 2 Octanal Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.19 | 19.75 ug/l | 1252880 | 1,4-Dichlorobenzene-d4 | 13.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octanal | 128 | C8H16O | 000124-13-0 | 98 |
| 2 | Cyclopentanol, 2-methyl-, cis- | 100 | C6H12O | 025144-05-2 | 42 |
| 3 | Cyclopentanol, 2-methyl-, trans- | 100 | C6H12O | 025144-04-1 | 41 |
| 4 | Hexanal | 100 | C6H12O | 000066-25-1 | 27 |
| 5 | 2-Hexene, (E)- | 84 | C6H12 | 004050-45-7 | 25 |



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ALS Vial : 16 Sample Multiplier: 28

**Instrument :** MSVOA_N
**ClientSampleId :** OILY-WATER

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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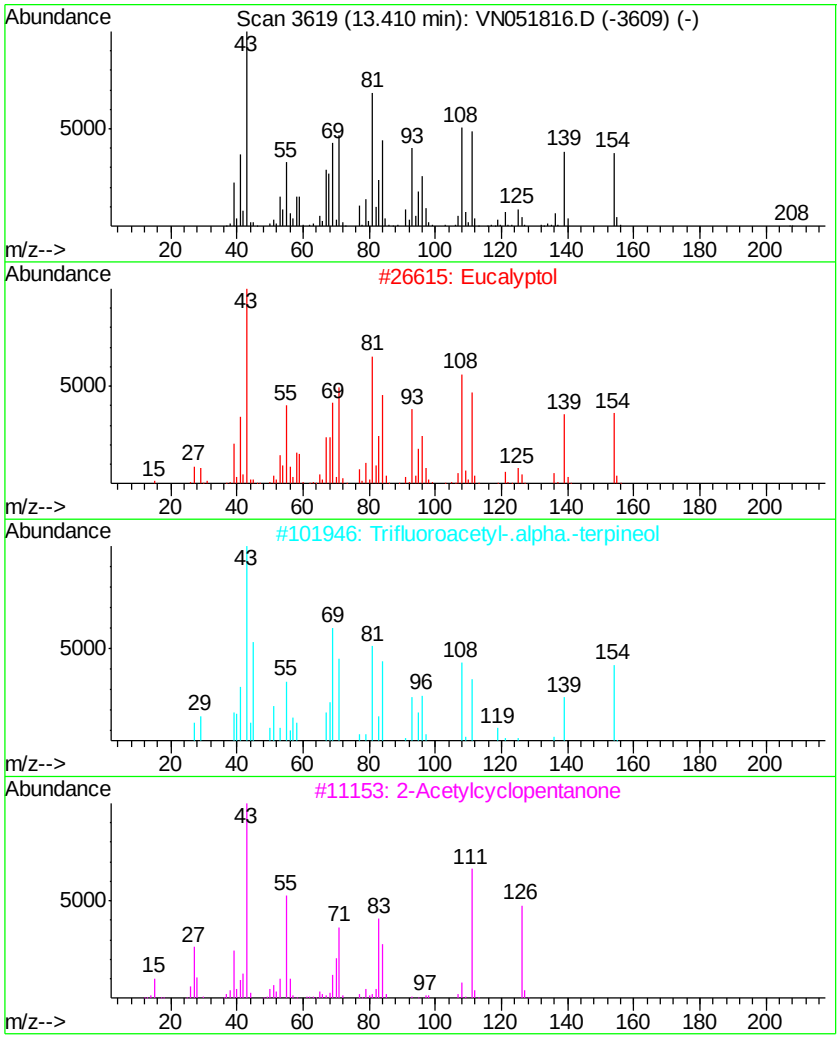
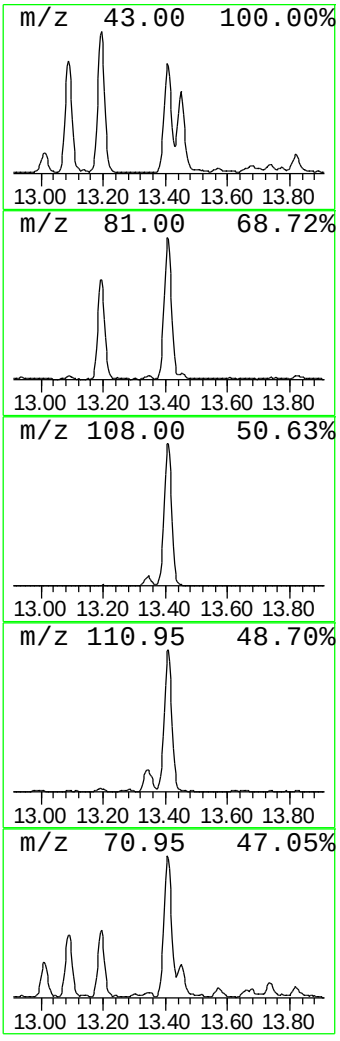
Peak Number 3 Eucalyptol Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.41 | 13.78 ug/l | 874253 | 1,4-Dichlorobenzene-d4 | 13.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Eucalyptol | 154 | C10H18O | 000470-82-6 | 99 |
| 2 | Trifluoroacetyl-.alpha.-terpineol | 250 | C12H17F3O2 | 1000058-17-6 | 58 |
| 3 | 2-Acetylcyclopentanone | 126 | C7H10O2 | 001670-46-8 | 35 |
| 4 | 7-Oxabicyclo[2.2.1]heptane, 1-me... | 154 | C10H18O | 000470-67-7 | 27 |
| 5 | 2-Cyclohexen-1-ol, 1-methyl-4-(1... | 154 | C10H18O | 029803-81-4 | 25 |



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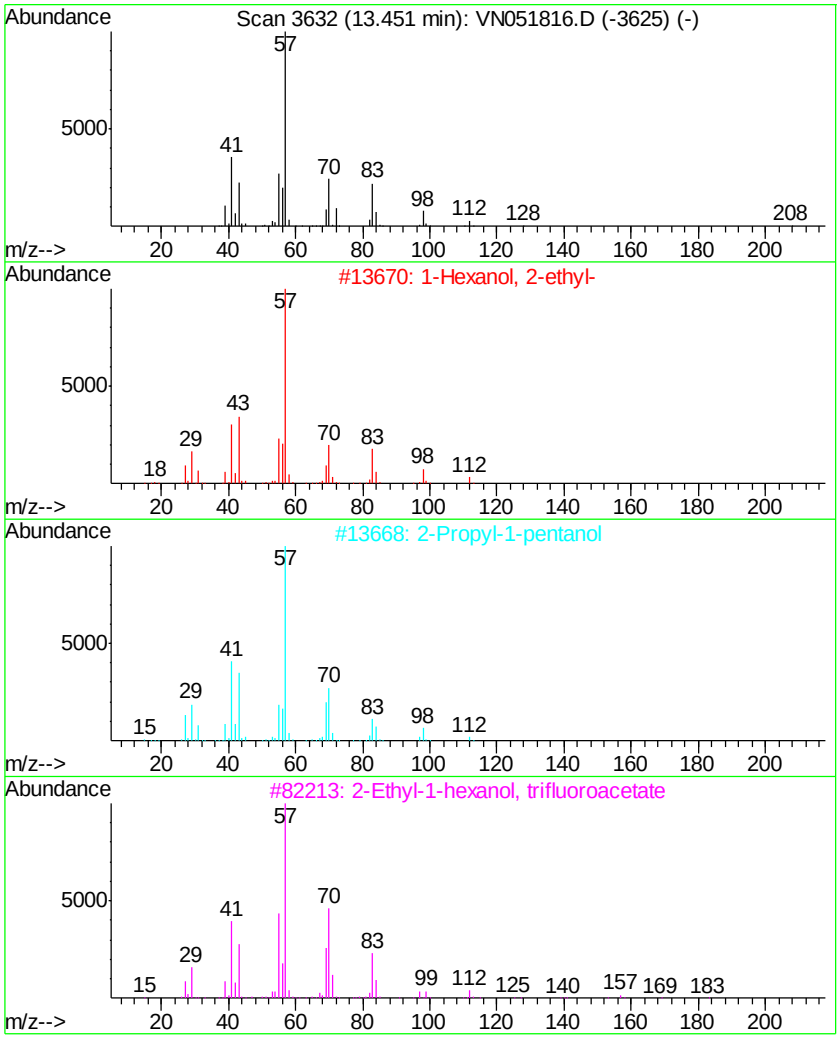
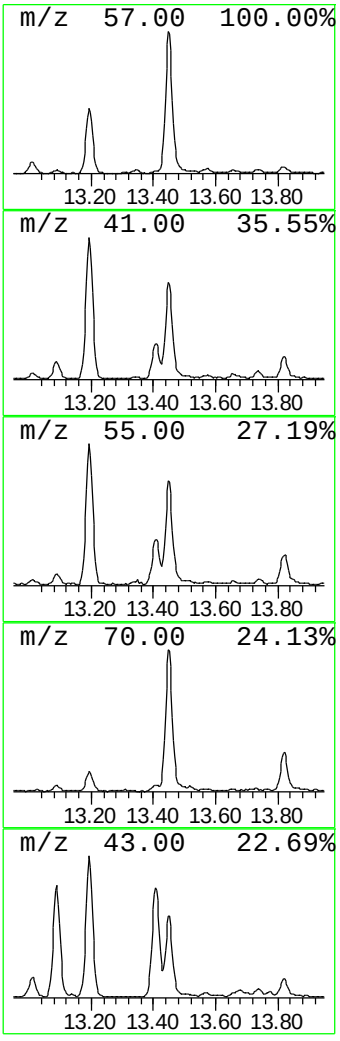
Peak Number 4 1-Hexanol, 2-ethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.45 | 12.87 ug/l | 816810 | 1,4-Dichlorobenzene-d4 | 13.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Hexanol, 2-ethyl- | 130 | C8H18O | 000104-76-7 | 78 |
| 2 | 2-Propyl-1-pentanol | 130 | C8H18O | 058175-57-8 | 45 |
| 3 | 2-Ethyl-1-hexanol, trifluoroacetate | 226 | C10H17F3O2 | 1000365-19-6 | 43 |
| 4 | Heptane, 1,1'-oxybis- | 214 | C14H30O | 000629-64-1 | 40 |
| 5 | 1-Pentanol, 2-ethyl-4-methyl- | 130 | C8H18O | 000106-67-2 | 28 |



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**ClientSampleId :** OILY-WATER

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Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

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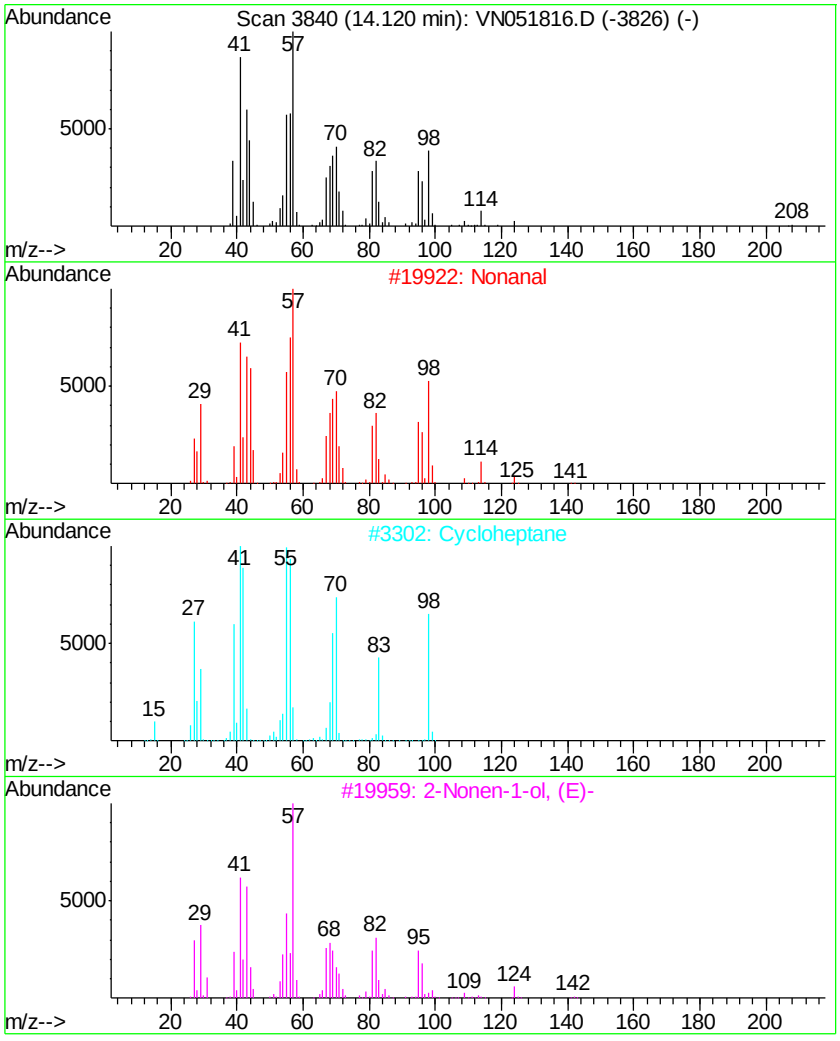
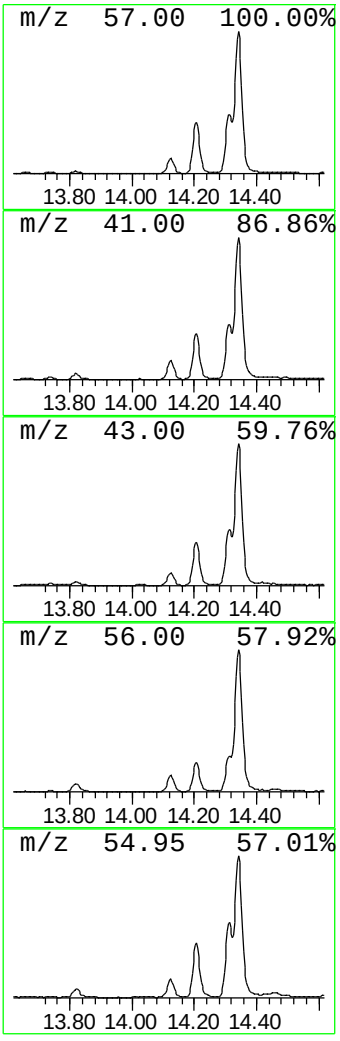
Peak Number 5 Nonanal Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.12 | 10.50 ug/l | 666206 | 1,4-Dichlorobenzene-d4 | 13.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonanal | 142 | C9H18O | 000124-19-6 | 91 |
| 2 | Cycloheptane | 98 | C7H14 | 000291-64-5 | 43 |
| 3 | 2-Nonen-1-ol, (E)- | 142 | C9H18O | 031502-14-4 | 35 |
| 4 | 2-Hexene, 5-methyl-, (E)- | 98 | C7H14 | 007385-82-2 | 27 |
| 5 | Formic acid, octyl ester | 158 | C9H18O2 | 000112-32-3 | 22 |



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TIC Library : C:\DATABASE\NIST11.L
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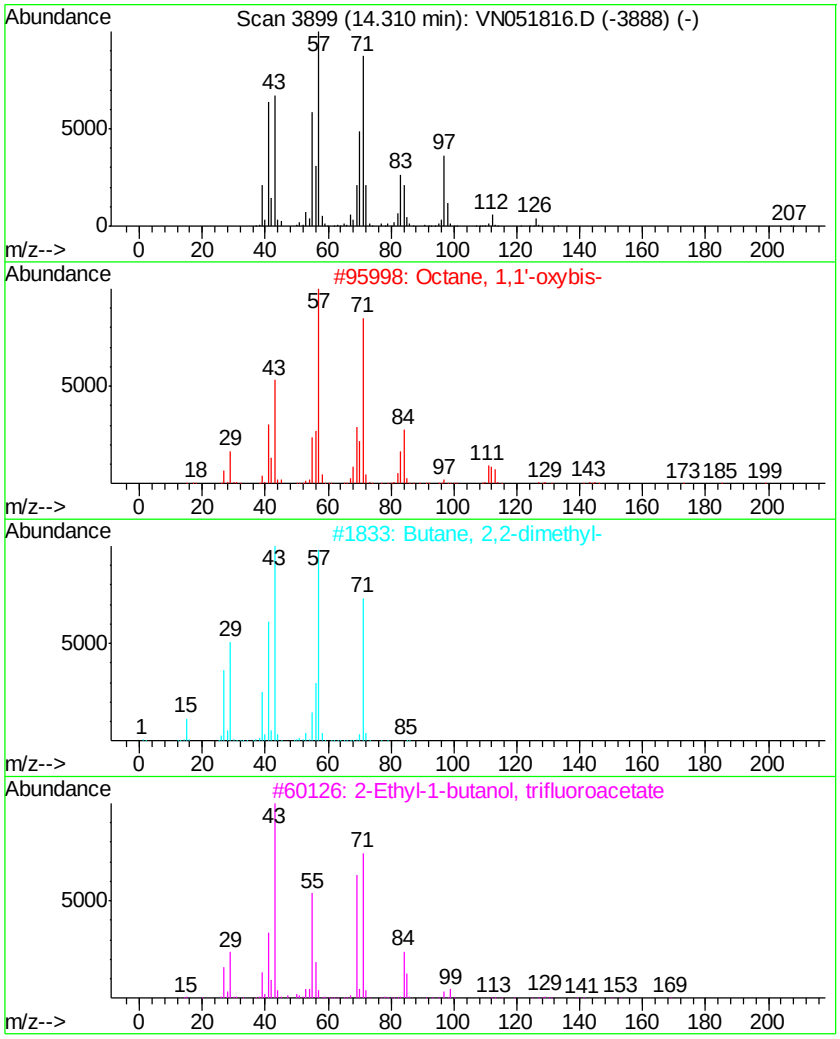
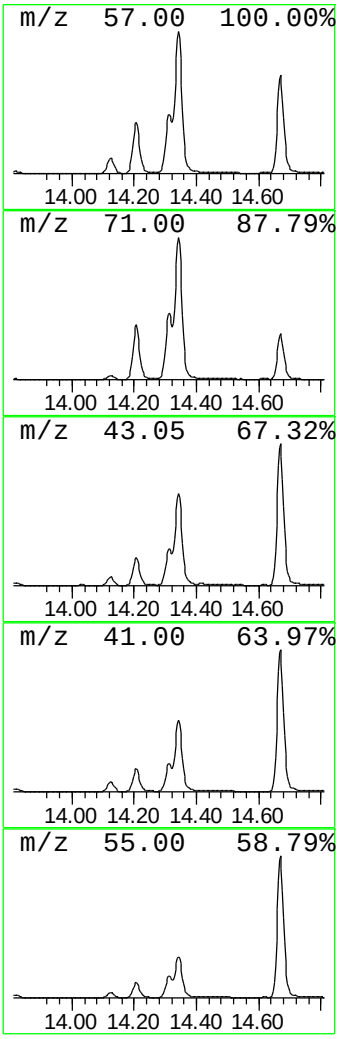
**********

Peak Number 7 Octane, 1,1'-oxybis- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.31 | 29.49 ug/l | 1871240 | 1,4-Dichlorobenzene-d4 | 13.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 1,1'-oxybis- | 242 | C16H34O | 000629-82-3 | 53 |
| 2 | Butane, 2,2-dimethyl- | 86 | C6H14 | 000075-83-2 | 38 |
| 3 | 2-Ethyl-1-butanol, trifluoroacetate | 198 | C8H13F3O2 | 1000352-36-4 | 38 |
| 4 | Cyclohexane, 1,2,3-trimethyl- | 126 | C9H18 | 001678-97-3 | 38 |
| 5 | Cyclopentanecarboxylic acid, 2-t... | 198 | C11H18O3 | 1000282-42-9 | 38 |



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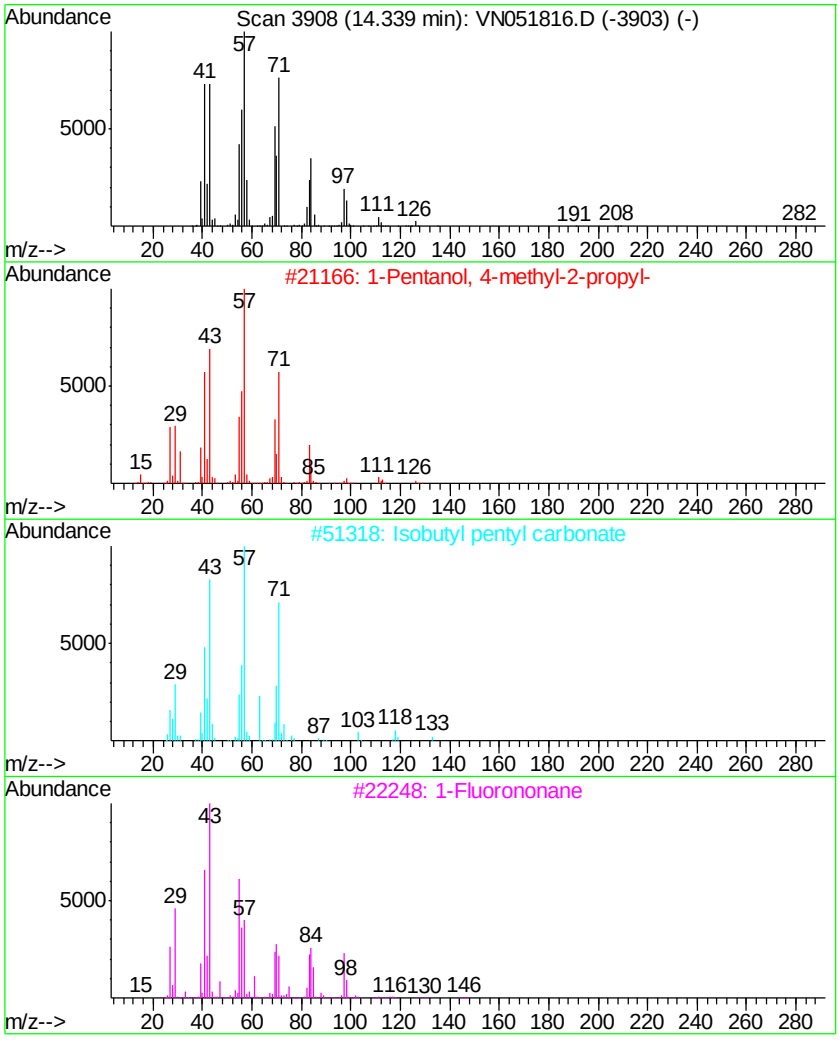
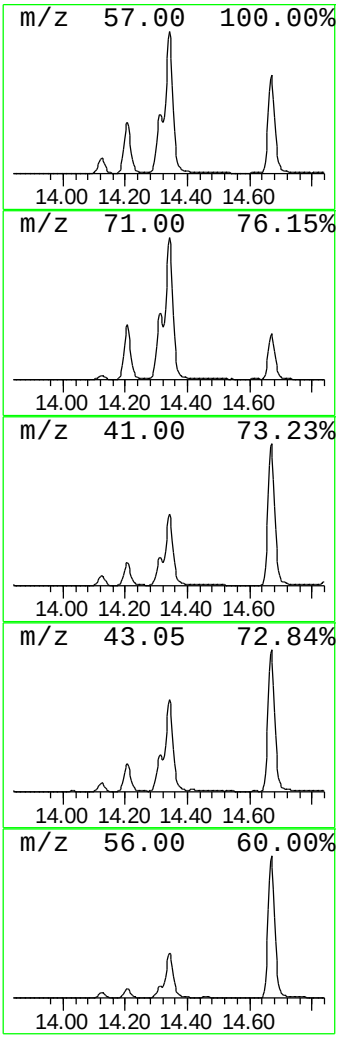
**********

Peak Number 8 1-Pentanol, 4-methyl-2-propyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.34 | 79.31 ug/l | 5032100 | 1,4-Dichlorobenzene-d4 | 13.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Pentanol, 4-methyl-2-propyl- | 144 | C9H20O | 054004-41-0 | 53 |
| 2 | Isobutyl pentyl carbonate | 188 | C10H20O3 | 178442-32-5 | 47 |
| 3 | 1-Fluorononane | 146 | C9H19F | 000463-18-3 | 43 |
| 4 | Acetic acid, trichloro-, octyl e... | 274 | C10H17Cl3O2 | 016958-78-4 | 43 |
| 5 | Cyclobutane, 1,2-diethyl-, cis- | 112 | C8H16 | 061141-50-2 | 38 |



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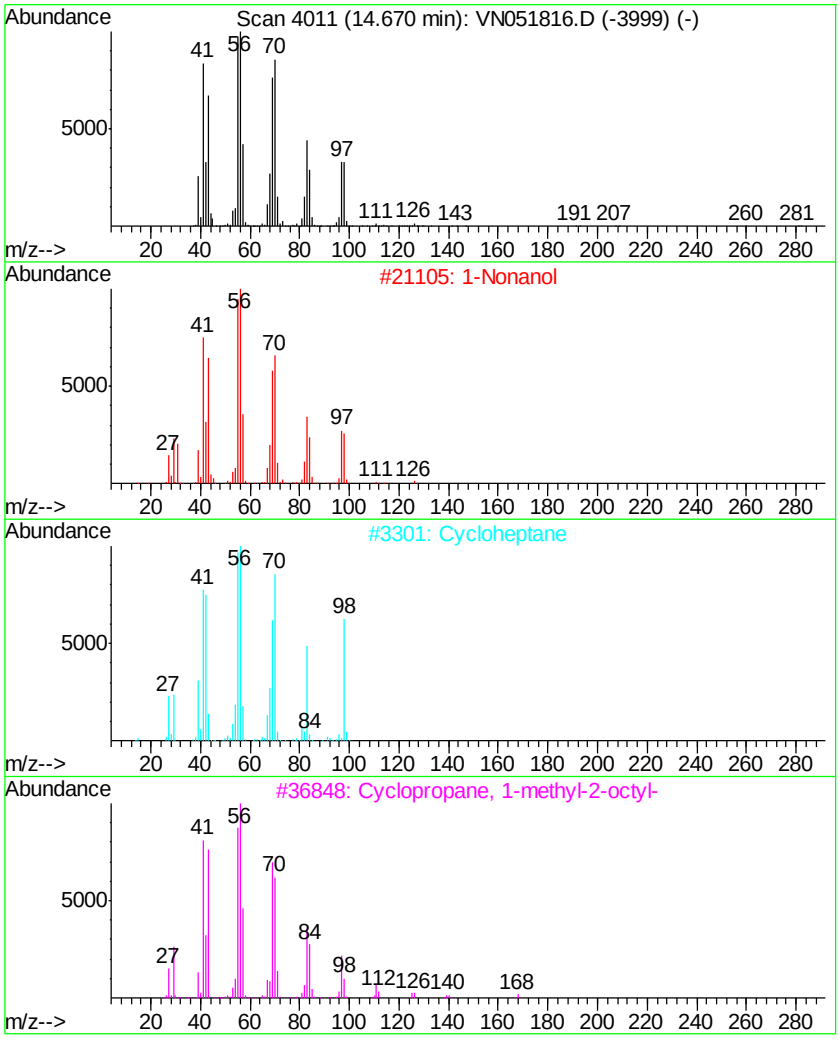
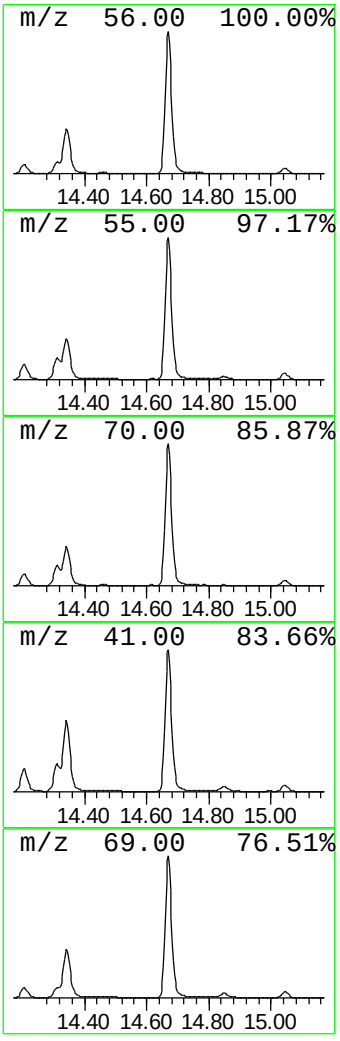
**********

Peak Number 9 1-Nonanol Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.67 | 152.99 ug/l | 9706790 | 1,4-Dichlorobenzene-d4 | 13.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Nonanol | 144 | C9H20O | 000143-08-8 | 91 |
| 2 | Cycloheptane | 98 | C7H14 | 000291-64-5 | 83 |
| 3 | Cyclopropane, 1-methyl-2-octyl- | 168 | C12H24 | 037617-26-8 | 78 |
| 4 | Cyclopropane, 1-ethyl-2-heptyl- | 168 | C12H24 | 074663-86-8 | 72 |
| 5 | 3-Heptene, (E)- | 98 | C7H14 | 014686-14-7 | 49 |



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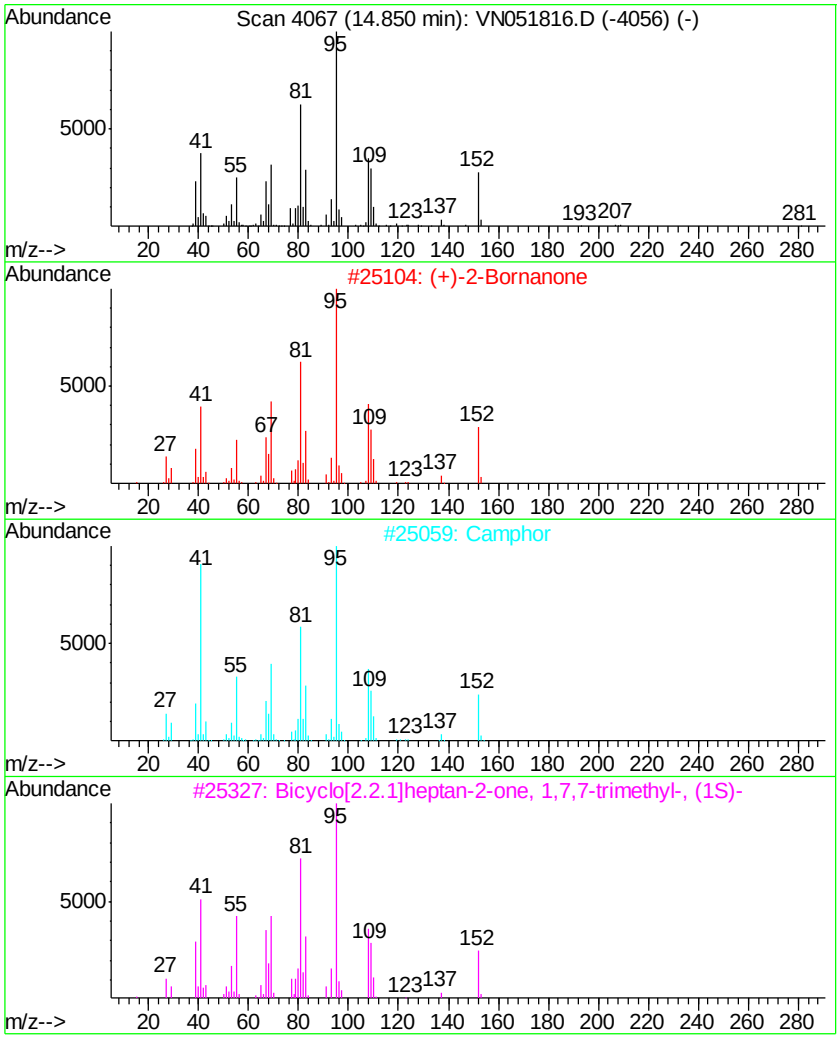
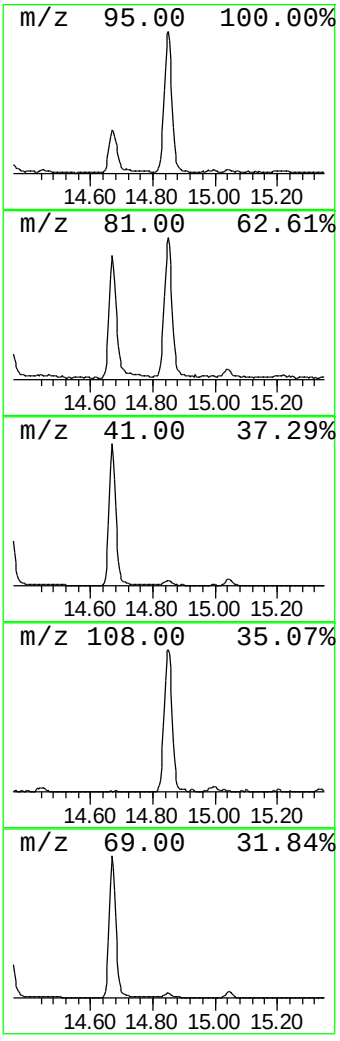
**********

Peak Number 10 (+)-2-Bornanone Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.85 | 9.17 ug/l | 581808 | 1,4-Dichlorobenzene-d4 | 13.35 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (+)-2-Bornanone | 152 | C10H16O | 000464-49-3 | 98 |
| 2 | Camphor | 152 | C10H16O | 000076-22-2 | 98 |
| 3 | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2 | 96 |
| 4 | 2-Butanone, 4-(5-methyl-2-furanyl)- | 152 | C9H12O2 | 013679-56-6 | 49 |
| 5 | 2-Furancarboxylic acid, 2-propen... | 152 | C8H8O3 | 004208-49-5 | 43 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN101118\
Data File : VN051816.D
Acq On : 11 Oct 2018 17:05
Operator : MD\SY
Sample : J5324-03
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 16 Sample Multiplier: 28

**Instrument :** MSVOA_N
**ClientSampleId :** OILY-WATER

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N101118W.M
Quant Title : SW846 8260

TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Ethanol | 3.28 | 10.9 | ug/l | 614058 | 1 | 7.67 | 2819970 | 50.0 |
| Octanal | 13.19 | 19.8 | ug/l | 1252880 | 4 | 13.35 | 3172300 | 50.0 |
| Eucalyptol | 13.41 | 13.8 | ug/l | 874253 | 4 | 13.35 | 3172300 | 50.0 |
| 1-Hexanol, 2-ethyl- | 13.45 | 12.9 | ug/l | 816810 | 4 | 13.35 | 3172300 | 50.0 |
| Nonanal | 14.12 | 10.5 | ug/l | 666206 | 4 | 13.35 | 3172300 | 50.0 |
| Octane, 1,1'-oxybis- | 14.31 | 29.5 | ug/l | 1871240 | 4 | 13.35 | 3172300 | 50.0 |
| 1-Pentanol, 4-met... | 14.34 | 79.3 | ug/l | 5032100 | 4 | 13.35 | 3172300 | 50.0 |
| 1-Nonanol | 14.67 | 153.0 | ug/l | 9706790 | 4 | 13.35 | 3172300 | 50.0 |
| (+)-2-Bornanone | 14.85 | 9.2 | ug/l | 581808 | 4 | 13.35 | 3172300 | 50.0 |