LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062018\
Data File : VU024754.D
Acq On : 20 Jun 2018 13:47
Operator : MD/SY
Sample : J3532-01 5X
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** OILY-WATER-DRUMS-1-2

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_U\METHOD\82U061318W.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 | 1.085 | 135 | 154 | 175 | rBV | 447330 | 613933 | 1.47% | 0.743% |
| 2 | 4.995 | 1356 | 1370 | 1390 | rVB | 234790 | 520309 | 1.25% | 0.629% |
| 3 | 5.767 | 1592 | 1610 | 1633 | rBV | 637732 | 1526857 | 3.66% | 1.847% |
| 4 | 5.918 | 1645 | 1657 | 1675 | rBV | 331450 | 656843 | 1.57% | 0.795% |
| 5 | 6.442 | 1805 | 1820 | 1850 | rVB | 629788 | 1133822 | 2.71% | 1.372% |
| 6 | 7.580 | 2156 | 2174 | 2205 | rBV | 630931 | 1121032 | 2.68% | 1.356% |
| 7 | 9.098 | 2634 | 2646 | 2669 | rBV | 478834 | 829702 | 1.99% | 1.004% |
| 8 | 10.313 | 3012 | 3024 | 3044 | rBV | 470913 | 788127 | 1.89% | 0.953% |
| 9 | 11.487 | 3380 | 3389 | 3408 | rVB | 612658 | 989851 | 2.37% | 1.197% |
| 10 | 11.596 | 3409 | 3423 | 3445 | rVB | 3100486 | 5061267 | 12.12% | 6.123% |
| 11 | 12.220 | 3607 | 3617 | 3642 | rBV | 553229 | 892113 | 2.14% | 1.079% |
| 12 | 12.570 | 3714 | 3726 | 3752 | rVB | 900116 | 1331777 | 3.19% | 1.611% |
| 13 | 12.725 | 3762 | 3774 | 3801 | rBV | 2190640 | 3391163 | 8.12% | 4.102% |
| 14 | 12.853 | 3803 | 3814 | 3820 | rVV | 2708028 | 4080271 | 9.77% | 4.936% |
| 15 | 12.895 | 3820 | 3827 | 3864 | rVB | 6566225 | 10403938 | 24.91% | 12.586% |
| 16 | 13.326 | 3946 | 3961 | 3975 | rBV | 27759642 | 41771008 | 100.00% | 50.531% |
| 17 | 13.400 | 3976 | 3984 | 4004 | rVB | 903498 | 1676725 | 4.01% | 2.028% |
| 18 | 14.593 | 4345 | 4355 | 4369 | rVB | 389859 | 568741 | 1.36% | 0.688% |
| 19 | 14.828 | 4417 | 4428 | 4470 | rBV2 | 171016 | 638151 | 1.53% | 0.772% |
| 20 | 14.998 | 4470 | 4481 | 4511 | rBV3 | 160311 | 519988 | 1.24% | 0.629% |
| 21 | 15.127 | 4511 | 4521 | 4567 | rVB | 496468 | 1212415 | 2.90% | 1.467% |
| 22 | 15.689 | 4685 | 4696 | 4768 | rBV | 1283621 | 2936852 | 7.03% | 3.553% |

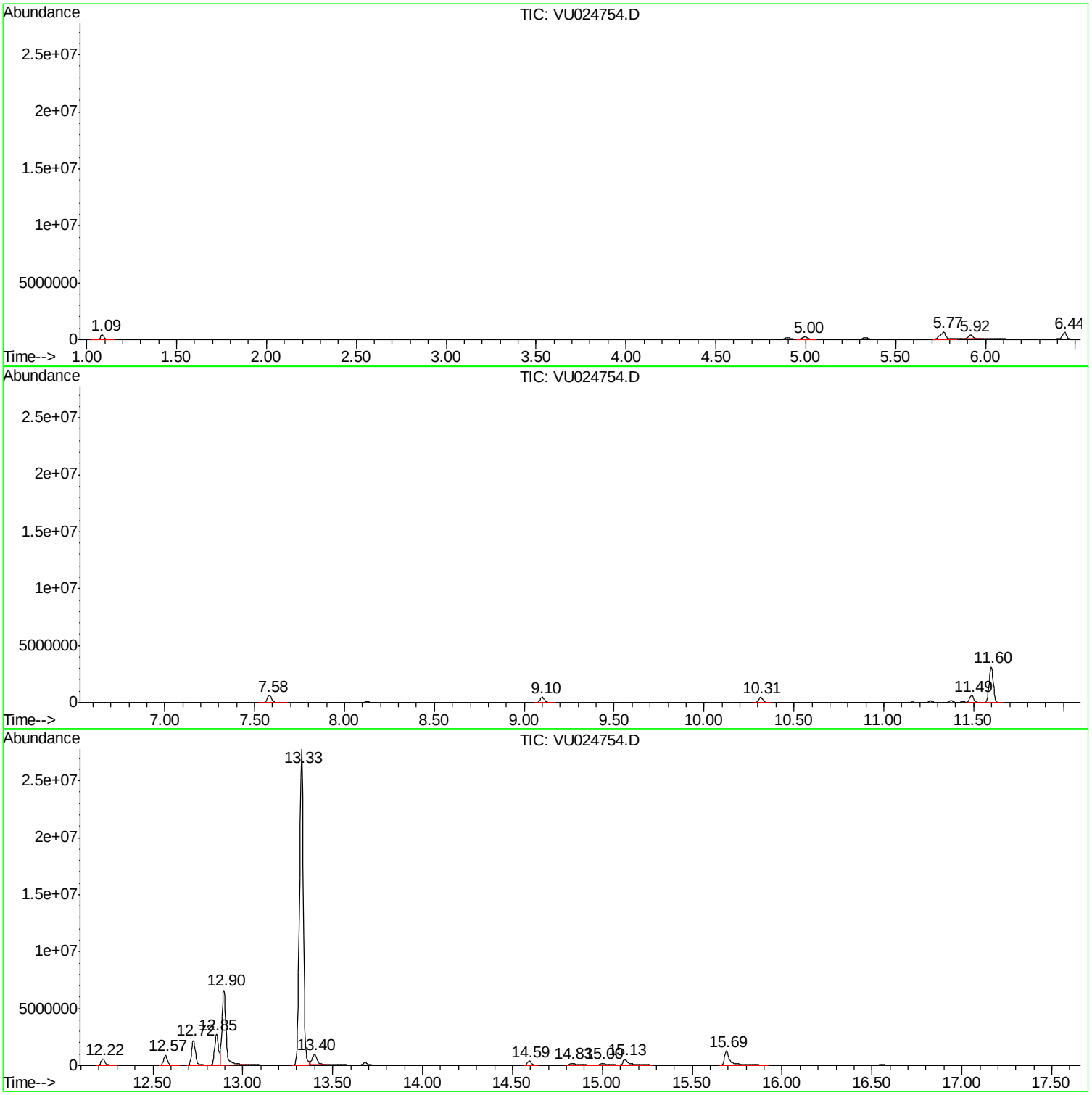
Sum of corrected areas: 82664885

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
Data File : VU024754.D
Acq On : 20 Jun 2018 13:47
Operator : MD/SY
Sample : J3532-01 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
OILY-WATER-DRUMS-1-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
Data File : VU024754.D
Acq On : 20 Jun 2018 13:47
Operator : MD/SY
Sample : J3532-01 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** OILY-WATER-DRUMS-1-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260

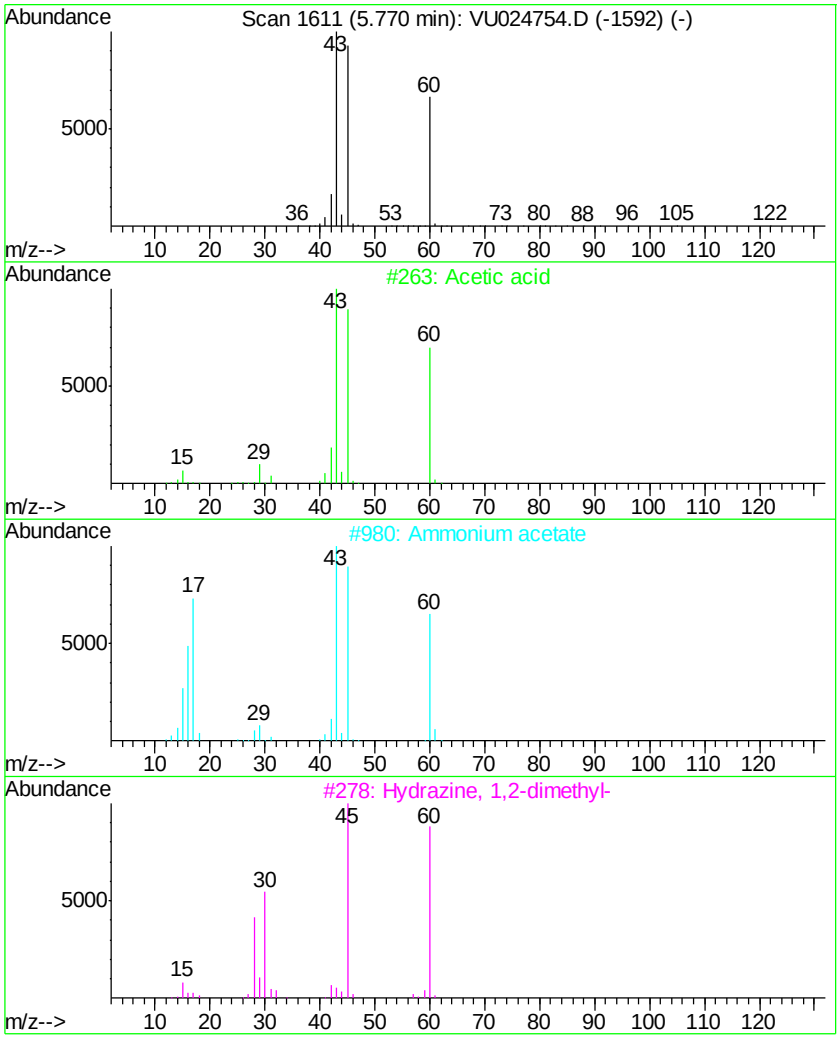
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

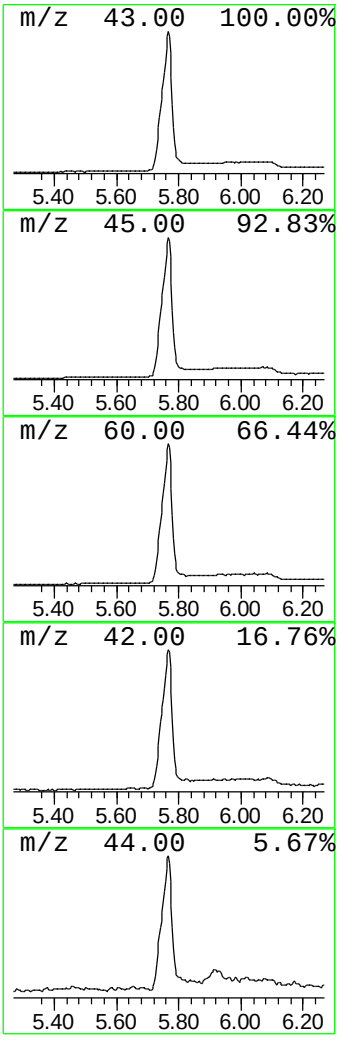
**********

Peak Number 1 Acetic acid Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.77 | 116.23 ug/l | 1526860 | 1,4-Difluorobenzene | 5.92 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetic acid | 60 | C2H4O2 | 000064-19-7 | 91 |
| 2 | Ammonium acetate | 77 | C2H7NO2 | 000631-61-8 | 83 |
| 3 | Hydrazine, 1,2-dimethyl- | 60 | C2H8N2 | 000540-73-8 | 50 |
| 4 | Carbonyl sulfide | 60 | COS | 000463-58-1 | 5 |
| 5 | Thiirane | 60 | C2H4S | 000420-12-2 | 5 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
Data File : VU024754.D
Acq On : 20 Jun 2018 13:47
Operator : MD/SY
Sample : J3532-01 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** OILY-WATER-DRUMS-1-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260

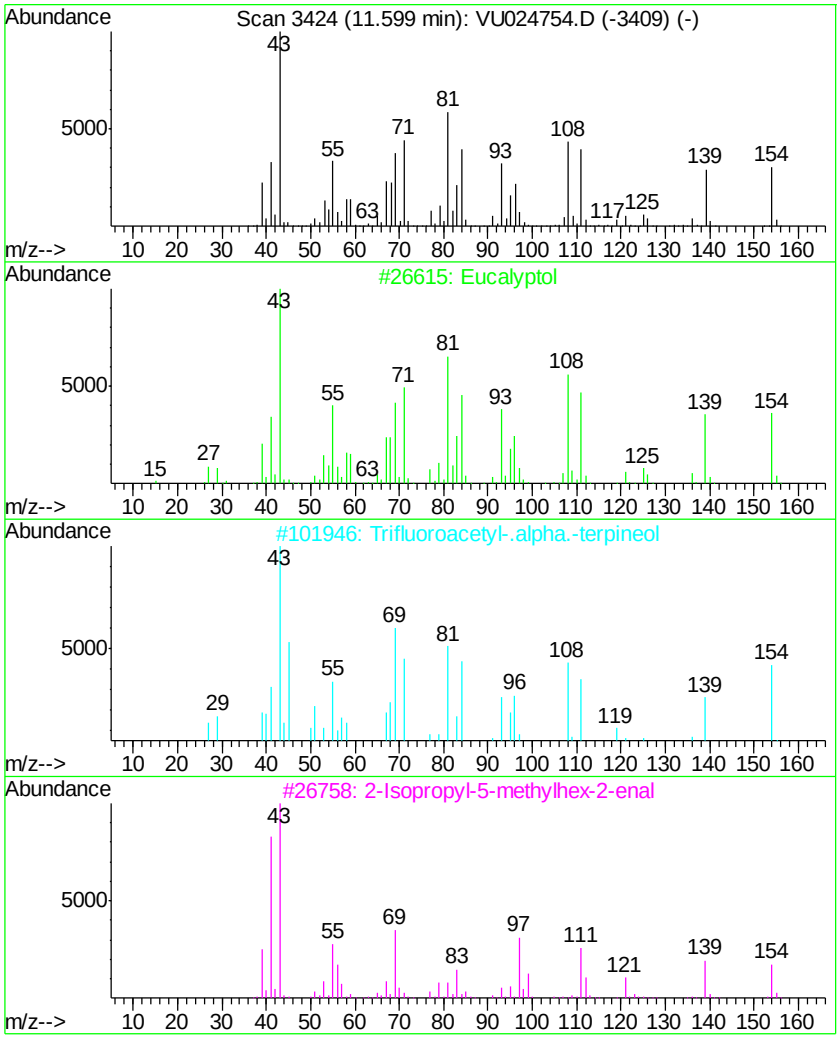
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

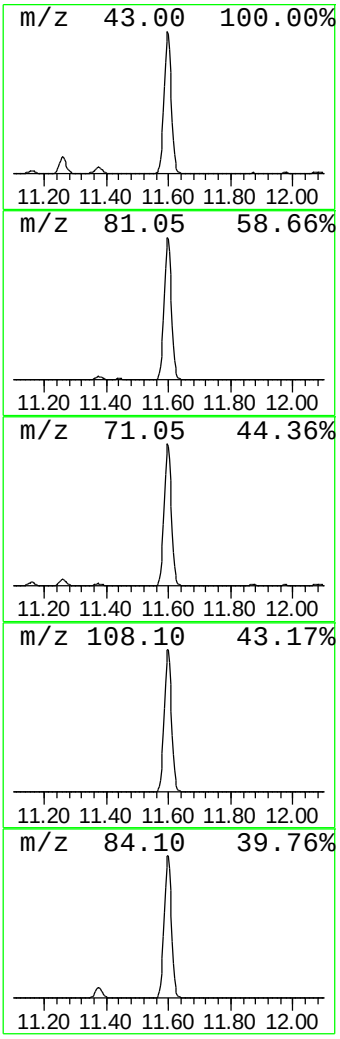
**********

Peak Number 3 Eucalyptol Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.60 | 255.66 ug/l | 5061270 | 1,4-Dichlorobenzene-d4 | 11.49 |

| 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 | 43 |
| 3 | 2-Isopropyl-5-methylhex-2-enal | 154 | C10H18O | 035158-25-9 | 27 |
| 4 | 3-Hepten-2-one, 3-propyl- | 154 | C10H18O | 032064-69-0 | 25 |
| 5 | 2-(3'-Oxo-butyl)-cyclopentanone | 154 | C9H14O2 | 1000143-37-2 | 25 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
Data File : VU024754.D
Acq On : 20 Jun 2018 13:47
Operator : MD/SY
Sample : J3532-01 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** OILY-WATER-DRUMS-1-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260

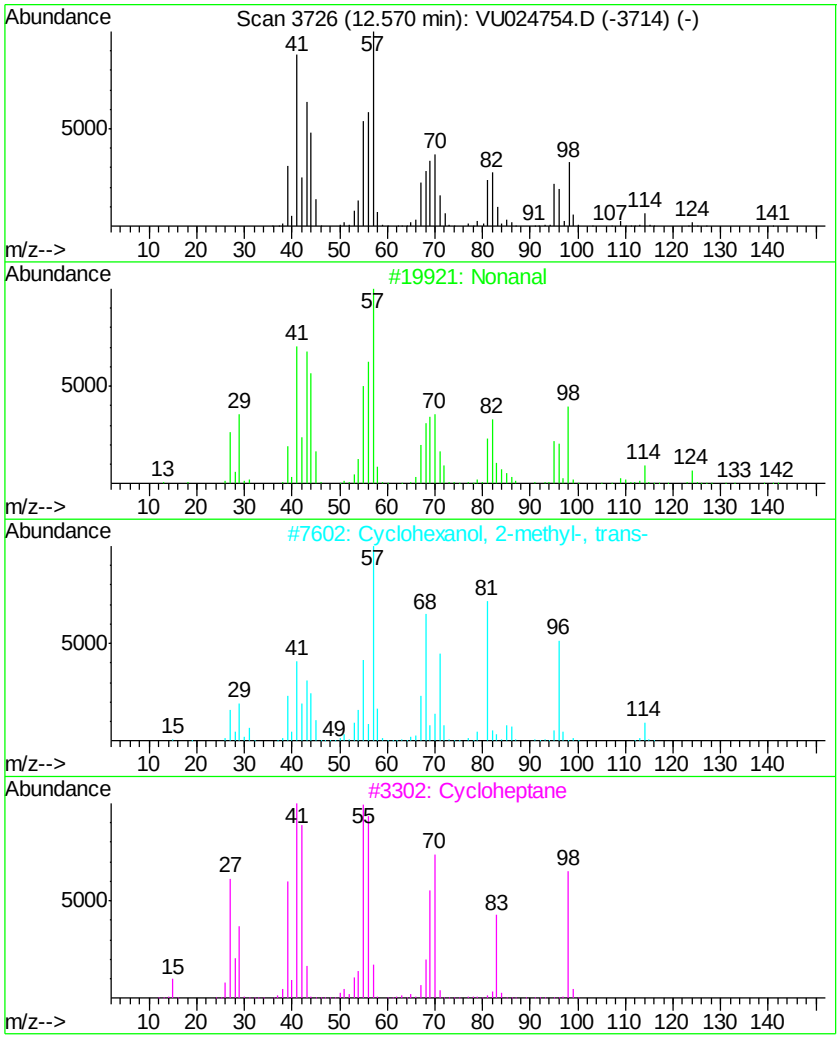
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

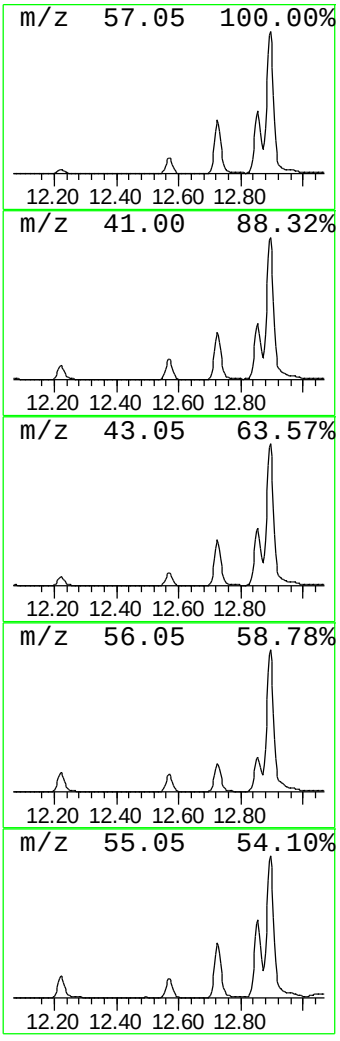
**********

Peak Number 4 Nonanal Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.57 | 67.27 ug/l | 1331780 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonanal | 142 | C9H18O | 000124-19-6 | 91 |
| 2 | Cyclohexanol, 2-methyl-, trans- | 114 | C7H14O | 007443-52-9 | 30 |
| 3 | Cycloheptane | 98 | C7H14 | 000291-64-5 | 27 |
| 4 | Heptane, 2-chloro- | 134 | C7H15Cl | 001001-89-4 | 22 |
| 5 | 5-Methyl-2-hexene,c&t | 98 | C7H14 | 003404-62-4 | 22 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062018\
Data File : VU024754.D
Acq On : 20 Jun 2018 13:47
Operator : MD/SY
Sample : J3532-01 5X
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** OILY-WATER-DRUMS-1-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260

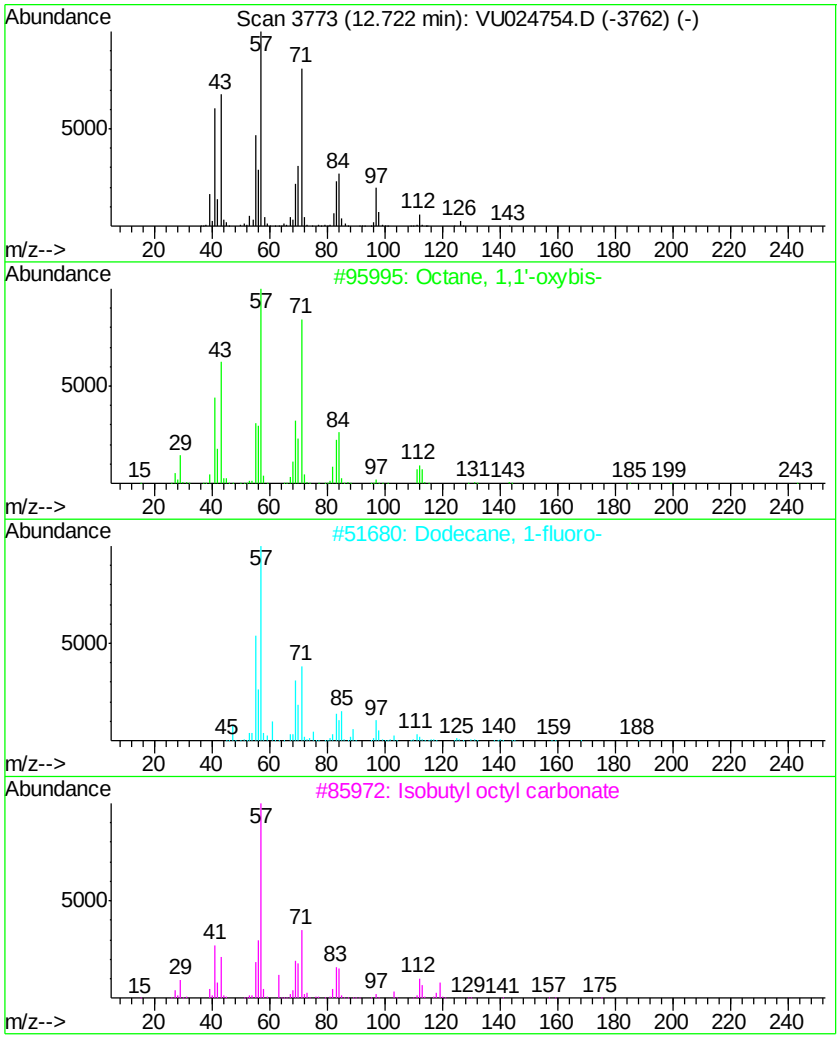
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

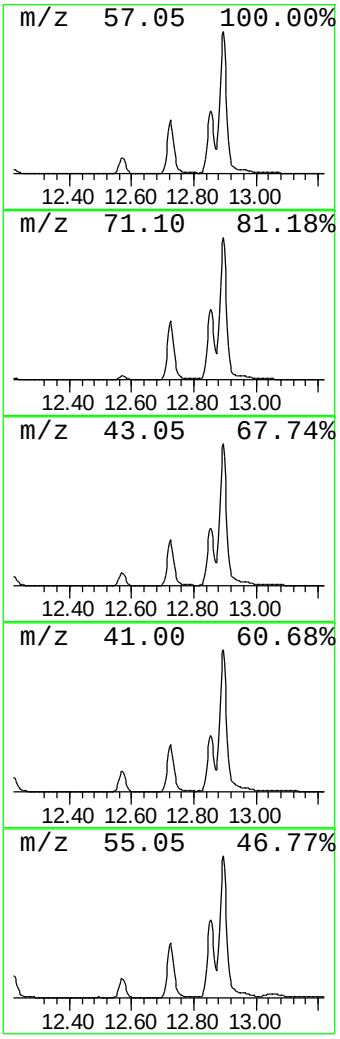
**********

Peak Number 5 Octane, 1,1'-oxybis- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.72 | 171.30 ug/l | 3391160 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 1,1'-oxybis- | 242 | C16H34O | 000629-82-3 | 78 |
| 2 | Dodecane, 1-fluoro- | 188 | C12H25F | 000334-68-9 | 72 |
| 3 | Isobutyl octyl carbonate | 230 | C13H26O3 | 1000372-74-6 | 58 |
| 4 | Tetradecane | 198 | C14H30 | 000629-59-4 | 50 |
| 5 | 1-Decene, 4-methyl- | 154 | C11H22 | 013151-29-6 | 47 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
Data File : VU024754.D
Acq On : 20 Jun 2018 13:47
Operator : MD/SY
Sample : J3532-01 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** OILY-WATER-DRUMS-1-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260

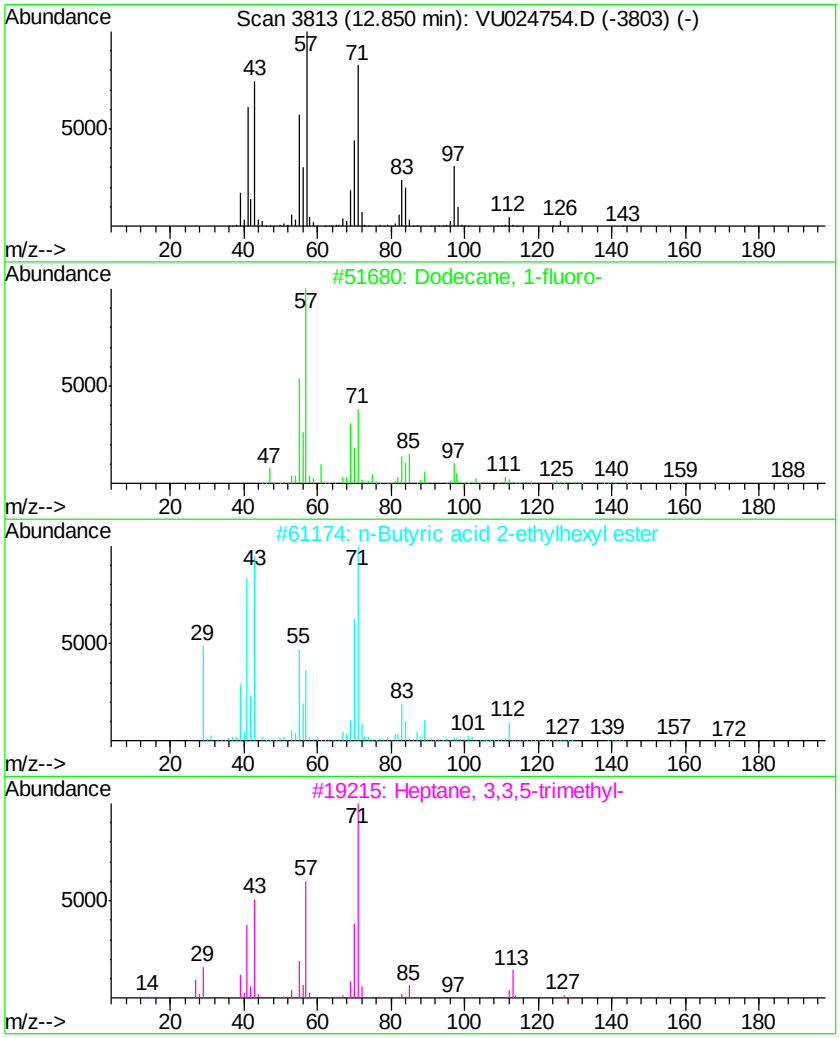
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

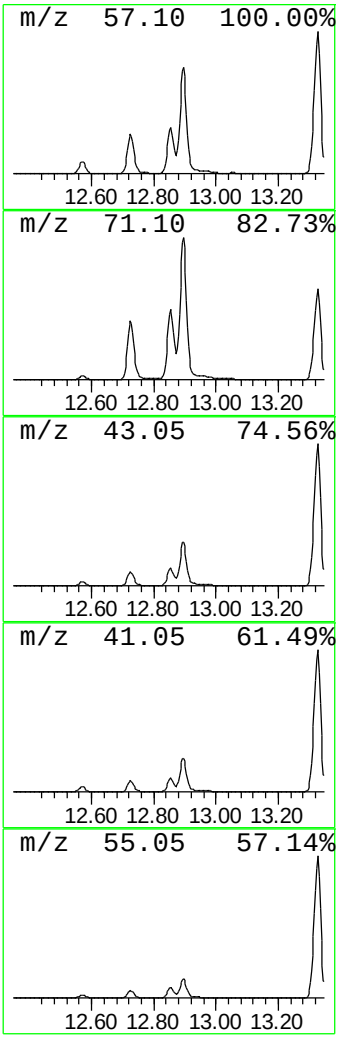
**********

Peak Number 6 Dodecane, 1-fluoro- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.85 | 206.11 ug/l | 4080270 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 1-fluoro- | 188 | C12H25F | 000334-68-9 | 64 |
| 2 | n-Butyric acid 2-ethylhexyl ester | 200 | C12H24O2 | 025415-84-3 | 47 |
| 3 | Heptane, 3,3,5-trimethyl- | 142 | C10H22 | 007154-80-5 | 47 |
| 4 | Nonane, 2,3-dimethyl- | 156 | C11H24 | 002884-06-2 | 43 |
| 5 | Carbonic acid, butyl octyl ester | 230 | C13H26O3 | 1000314-63-5 | 43 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
Data File : VU024754.D
Acq On : 20 Jun 2018 13:47
Operator : MD/SY
Sample : J3532-01 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** OILY-WATER-DRUMS-1-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260

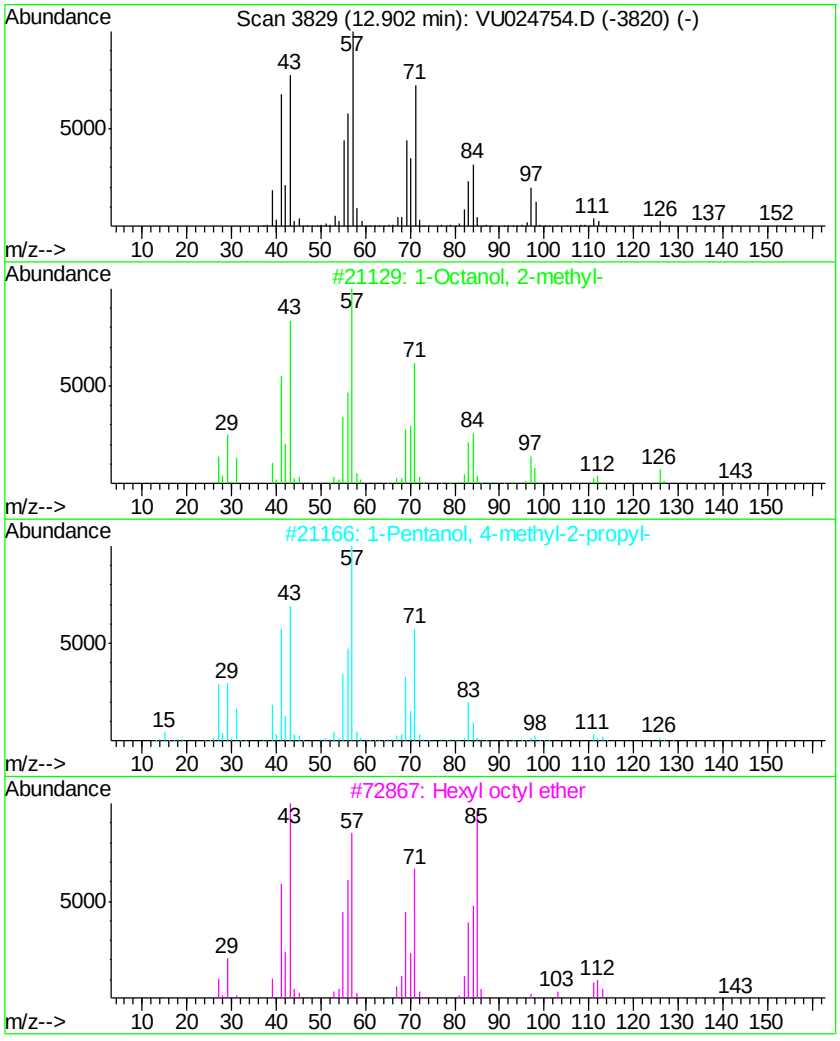
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

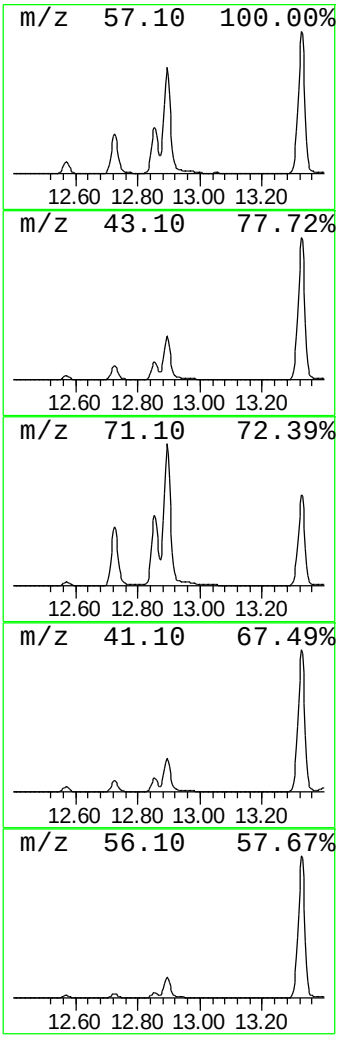
**********

Peak Number 7 1-Octanol, 2-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.90 | 525.53 ug/l | 10403900 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Octanol, 2-methyl- | 144 | C9H20O | 000818-81-5 | 90 |
| 2 | 1-Pentanol, 4-methyl-2-propyl- | 144 | C9H20O | 054004-41-0 | 59 |
| 3 | Hexyl octyl ether | 214 | C14H30O | 017071-54-4 | 59 |
| 4 | Cyclobutane, 1,2-diethyl-, cis- | 112 | C8H16 | 061141-50-2 | 49 |
| 5 | Cyclooctane | 112 | C8H16 | 000292-64-8 | 43 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
Data File : VU024754.D
Acq On : 20 Jun 2018 13:47
Operator : MD/SY
Sample : J3532-01 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** OILY-WATER-DRUMS-1-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260

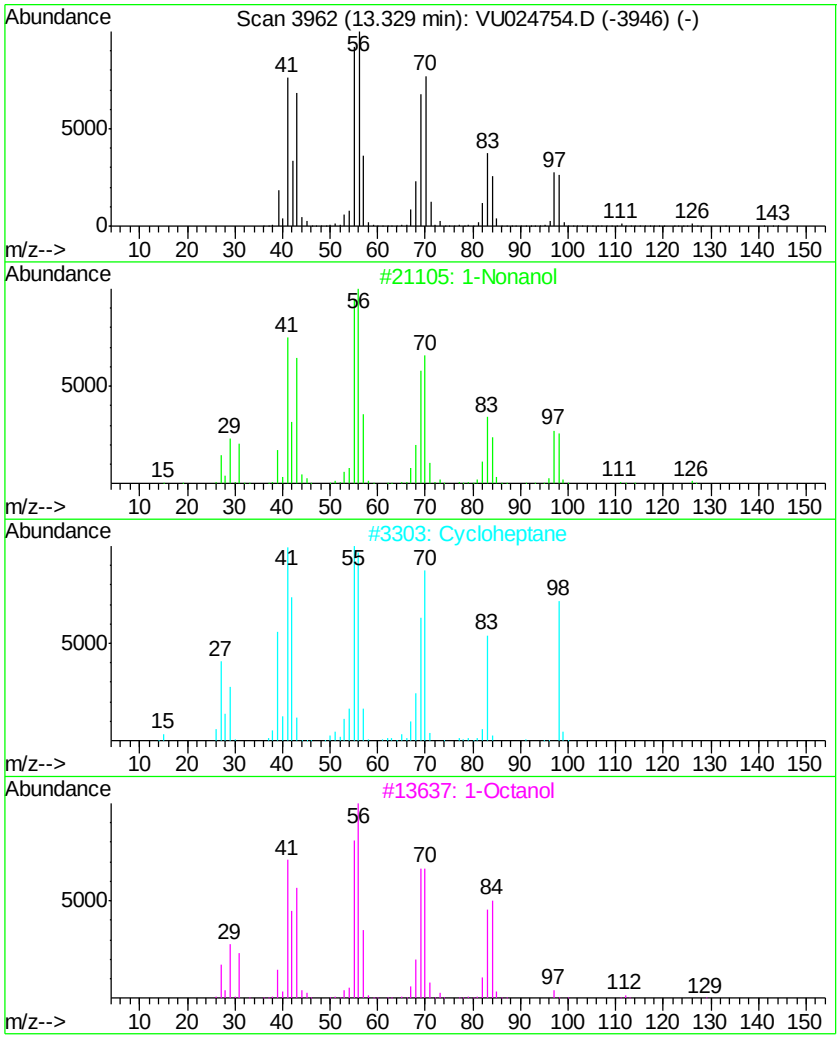
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

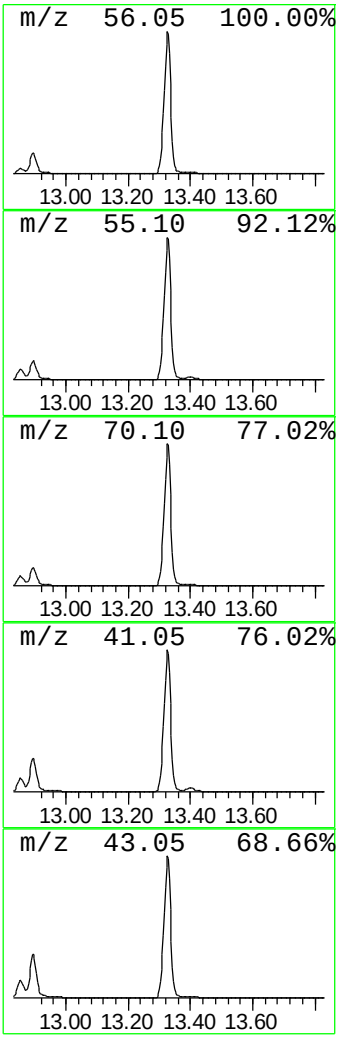
**********

Peak Number 8 1-Nonanol Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.33 | 2109.96 ug/l | 41771000 | 1,4-Dichlorobenzene-d4 | 11.49 |

| 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 | 87 |
| 3 | 1-Octanol | 130 | C8H18O | 000111-87-5 | 80 |
| 4 | Cyclopropane, 1-methyl-2-octyl- | 168 | C12H24 | 037617-26-8 | 80 |
| 5 | Isopropylcyclobutane | 98 | C7H14 | 000872-56-0 | 68 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
Data File : VU024754.D
Acq On : 20 Jun 2018 13:47
Operator : MD/SY
Sample : J3532-01 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** OILY-WATER-DRUMS-1-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260

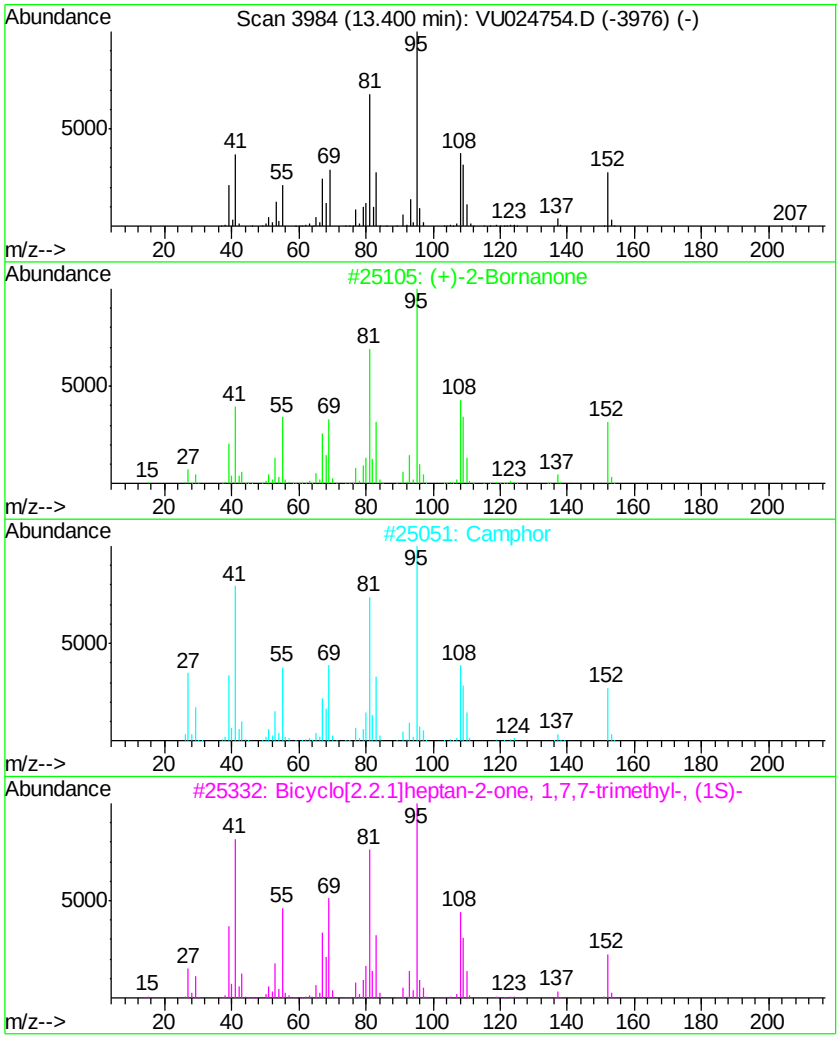
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

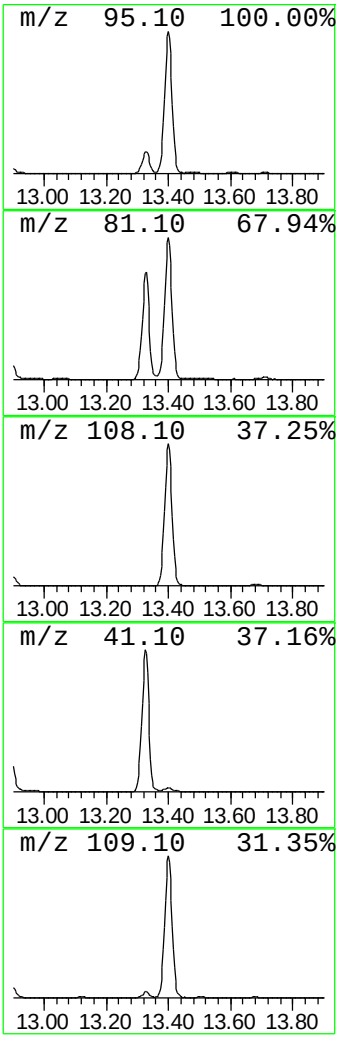
**********

Peak Number 9 (+)-2-Bornanone Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.40 | 84.70 ug/l | 1676730 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (+)-2-Bornanone | 152 | C10H16O | 000464-49-3 | 95 |
| 2 | Camphor | 152 | C10H16O | 000076-22-2 | 95 |
| 3 | Bicyclo[2.2.1]heptan-2-one, 1,7,... | 152 | C10H16O | 000464-48-2 | 94 |
| 4 | 2-Butanone, 4-(5-methyl-2-furanyl)- | 152 | C9H12O2 | 013679-56-6 | 49 |
| 5 | endo-Borneol | 154 | C10H18O | 000507-70-0 | 43 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
Data File : VU024754.D
Acq On : 20 Jun 2018 13:47
Operator : MD/SY
Sample : J3532-01 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** OILY-WATER-DRUMS-1-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.M
Quant Title : SW846 8260

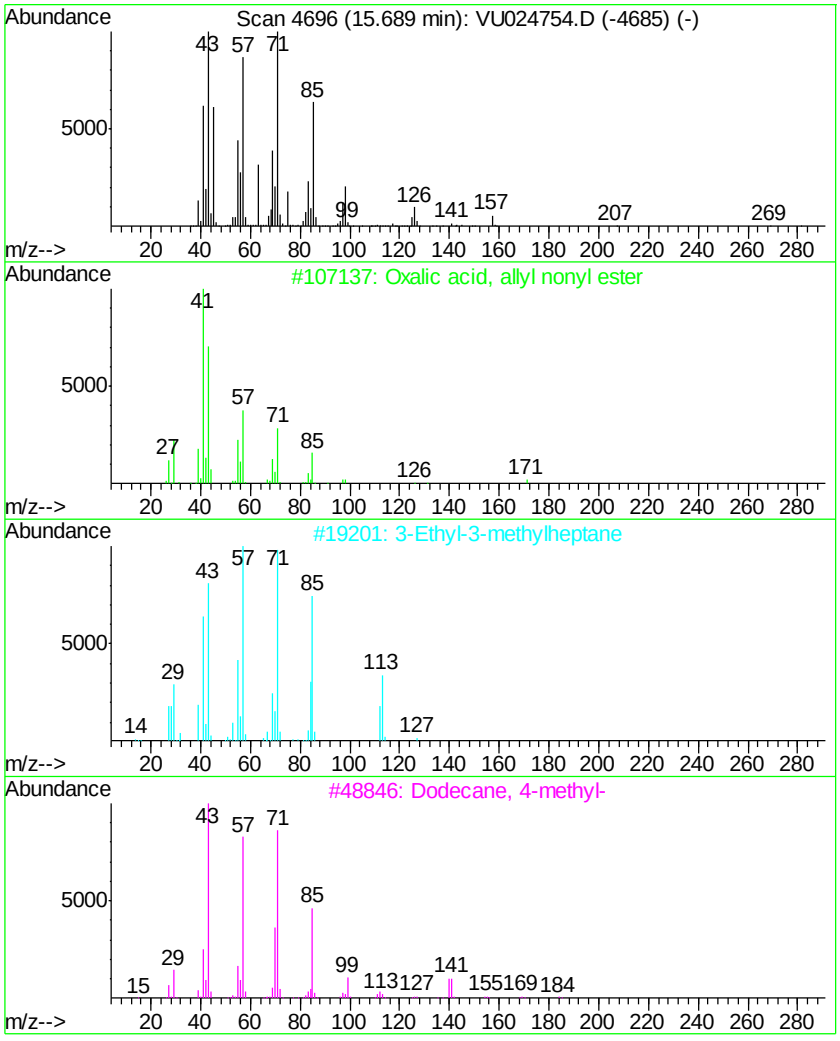
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

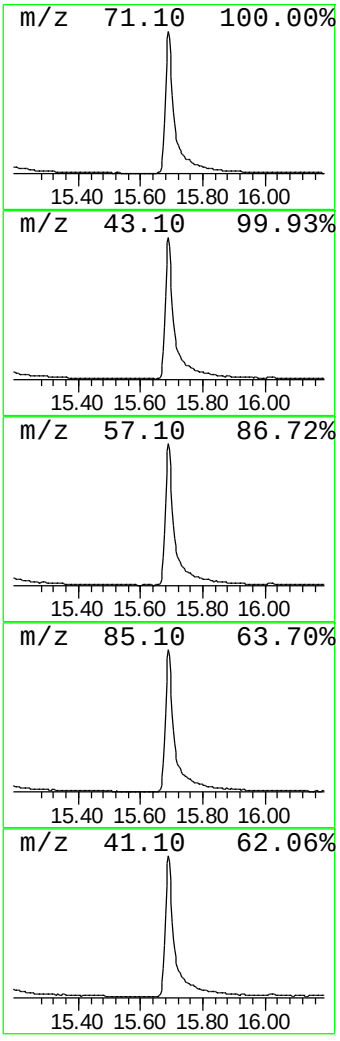
**********

Peak Number 10 Oxalic acid, allyl nonyl ester Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.69 | 148.35 ug/l | 2936850 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Oxalic acid, allyl nonyl ester | 256 | C14H24O4 | 1000309-23-7 | 50 |
| 2 | 3-Ethyl-3-methylheptane | 142 | C10H22 | 017302-01-1 | 38 |
| 3 | Dodecane, 4-methyl- | 184 | C13H28 | 006117-97-1 | 38 |
| 4 | Sulfurous acid, decyl 2-propyl e... | 264 | C13H28O3S | 1000309-12-1 | 35 |
| 5 | Dichloroacetic acid, 4-methylpen... | 212 | C8H14Cl2O2 | 1000282-43-7 | 35 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU062018\
Data File : VU024754.D
Acq On : 20 Jun 2018 13:47
Operator : MD/SY
Sample : J3532-01 5X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 6 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** OILY-WATER-DRUMS-1-2

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U061318W.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 |
| Acetic acid | 5.77 | 116.2 | ug/l | 1526860 | 2 | 5.92 | 656843 | 50.0 |
| Eucalyptol | 11.60 | 255.7 | ug/l | 5061270 | 4 | 11.49 | 989851 | 50.0 |
| Nonanal | 12.57 | 67.3 | ug/l | 1331780 | 4 | 11.49 | 989851 | 50.0 |
| Octane, 1,1'-oxybis- | 12.72 | 171.3 | ug/l | 3391160 | 4 | 11.49 | 989851 | 50.0 |
| Dodecane, 1-fluoro- | 12.85 | 206.1 | ug/l | 4080270 | 4 | 11.49 | 989851 | 50.0 |
| 1-Octanol, 2-methyl- | 12.90 | 525.5 | ug/l | 10403900 | 4 | 11.49 | 989851 | 50.0 |
| 1-Nonanol | 13.33 | 2110.0 | ug/l | 41771000 | 4 | 11.49 | 989851 | 50.0 |
| (+)-2-Bornanone | 13.40 | 84.7 | ug/l | 1676730 | 4 | 11.49 | 989851 | 50.0 |
| Oxalic acid, ally... | 15.69 | 148.3 | ug/l | 2936850 | 4 | 11.49 | 989851 | 50.0 |