LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN102418\
Data File : VN051982.D
Acq On : 24 Oct 2018 12:40
Operator : MD\SY
Sample : J5643-02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 28

**Instrument :** MSVOA_N
**ClientSampleId :** 002M-35TH-AVE-(SEP)

Integration Parameters: RTEINT3.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % 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\624N101218W.M
Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2.317 | 159 | 169 | 180 | rBV | 65491 | 107380 | 4.19% | 0.770% |
| 2 | 2.452 | 194 | 211 | 223 | rBV3 | 56158 | 148141 | 5.77% | 1.063% |
| 3 | 3.699 | 585 | 599 | 610 | rBV2 | 11042 | 27284 | 1.06% | 0.196% |
| 4 | 3.815 | 618 | 635 | 663 | rBV | 177783 | 471033 | 18.36% | 3.380% |
| 5 | 4.330 | 776 | 795 | 811 | rBV2 | 38654 | 114292 | 4.45% | 0.820% |
| 6 | 5.416 | 1107 | 1133 | 1154 | rBV3 | 52717 | 175476 | 6.84% | 1.259% |
| 7 | 6.252 | 1374 | 1393 | 1419 | rBV4 | 29124 | 90638 | 3.53% | 0.650% |
| 8 | 6.648 | 1498 | 1516 | 1529 | rBV3 | 15827 | 44653 | 1.74% | 0.320% |
| 9 | 6.838 | 1558 | 1575 | 1597 | rBV2 | 33410 | 101718 | 3.96% | 0.730% |
| 10 | 7.198 | 1667 | 1687 | 1708 | rBV2 | 361858 | 970250 | 37.82% | 6.962% |
| 11 | 7.375 | 1721 | 1742 | 1772 | rBV | 576012 | 1524548 | 59.42% | 10.939% |
| 12 | 8.027 | 1925 | 1945 | 1970 | rBV | 346196 | 815081 | 31.77% | 5.848% |
| 13 | 8.288 | 2006 | 2026 | 2042 | rBV3 | 93338 | 232735 | 9.07% | 1.670% |
| 14 | 8.455 | 2063 | 2078 | 2099 | rVB2 | 111002 | 250021 | 9.74% | 1.794% |
| 15 | 8.587 | 2101 | 2119 | 2138 | rBV | 942445 | 1940178 | 75.62% | 13.921% |
| 16 | 9.185 | 2290 | 2305 | 2320 | rBV4 | 20618 | 46986 | 1.83% | 0.337% |
| 17 | 9.403 | 2358 | 2373 | 2390 | rVB3 | 65395 | 134110 | 5.23% | 0.962% |
| 18 | 9.979 | 2540 | 2552 | 2563 | rBV2 | 20161 | 36360 | 1.42% | 0.261% |
| 19 | 10.091 | 2570 | 2587 | 2607 | rBV | 1416152 | 2565703 | 100.00% | 18.409% |
| 20 | 10.516 | 2699 | 2719 | 2721 | rBV | 33663 | 78248 | 3.05% | 0.561% |
| 21 | 11.066 | 2878 | 2890 | 2901 | rBV6 | 19249 | 38843 | 1.51% | 0.279% |
| 22 | 11.146 | 2906 | 2915 | 2936 | rBV6 | 15277 | 38519 | 1.50% | 0.276% |
| 23 | 11.407 | 2980 | 2996 | 3020 | rBV | 1249774 | 2167346 | 84.47% | 15.551% |
| 24 | 11.625 | 3051 | 3064 | 3087 | rBV3 | 26634 | 61006 | 2.38% | 0.438% |
| 25 | 11.963 | 3146 | 3169 | 3182 | rBV2 | 48425 | 112297 | 4.38% | 0.806% |
| 26 | 12.400 | 3292 | 3305 | 3322 | rBV3 | 901896 | 1564626 | 60.98% | 11.226% |
| 27 | 13.033 | 3491 | 3502 | 3512 | rBV4 | 23288 | 42733 | 1.67% | 0.307% |
| 28 | 13.882 | 3755 | 3766 | 3773 | rBV4 | 23341 | 37022 | 1.44% | 0.266% |

Sum of corrected areas: 13937227

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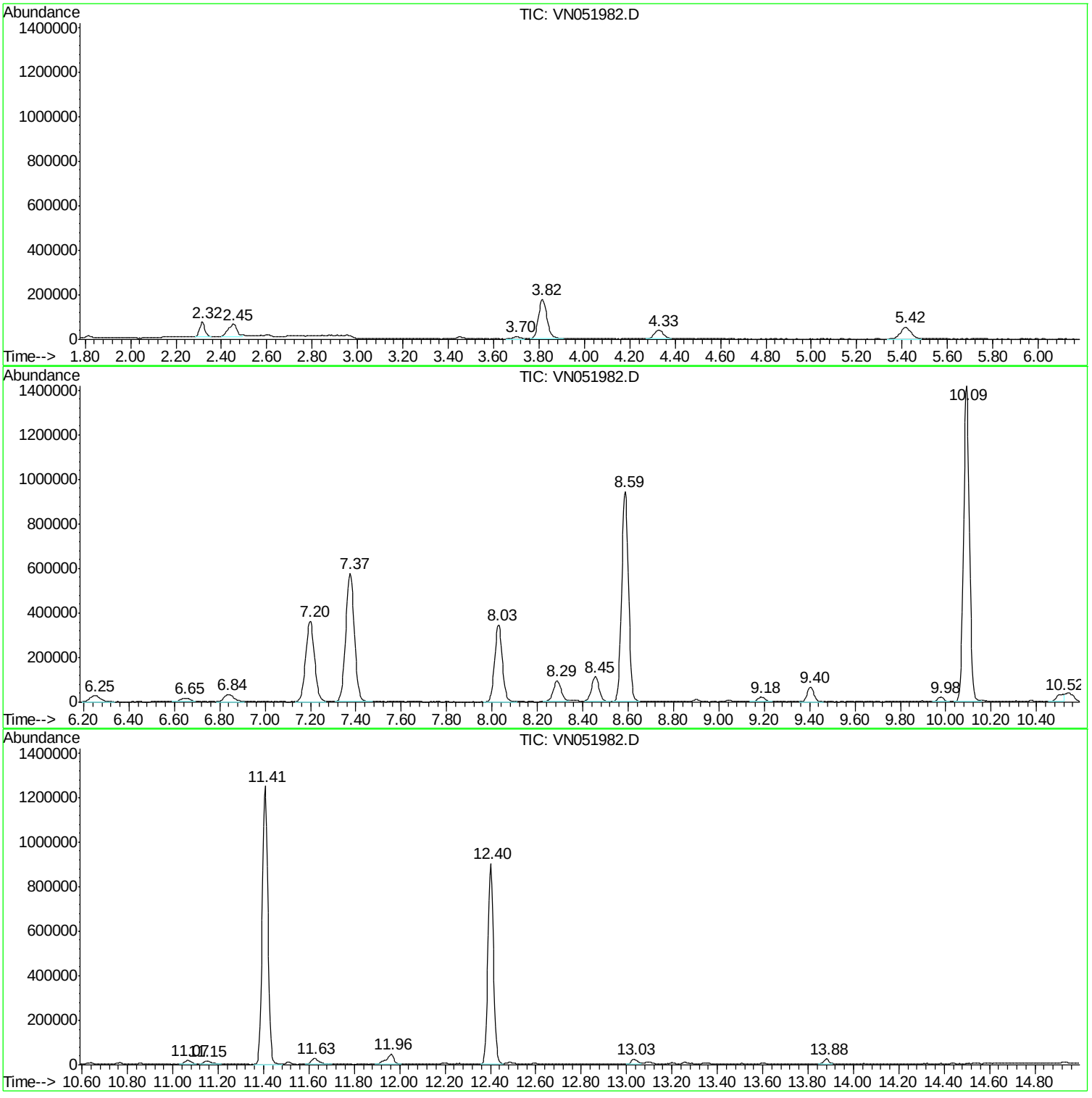
Sample : J5643-02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 28

**Instrument :**
MSVOA_N
**ClientSampleId :**
002M-35TH-AVE-(SEP)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN102418\
Data File : VN051982.D
Acq On : 24 Oct 2018 12:40
Operator : MD\SY
Sample : J5643-02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 28

**Instrument :** MSVOA_N
**ClientSampleId :** 002M-35TH-AVE-(SEP)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

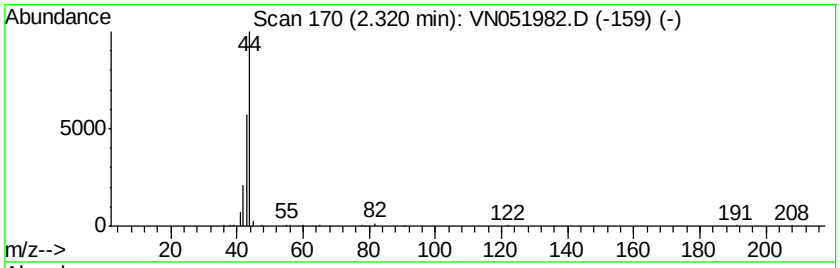
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

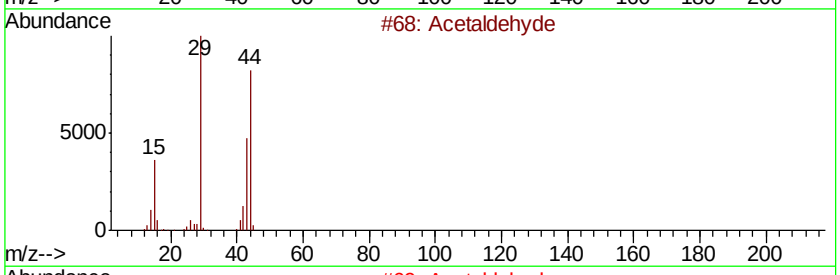
**********

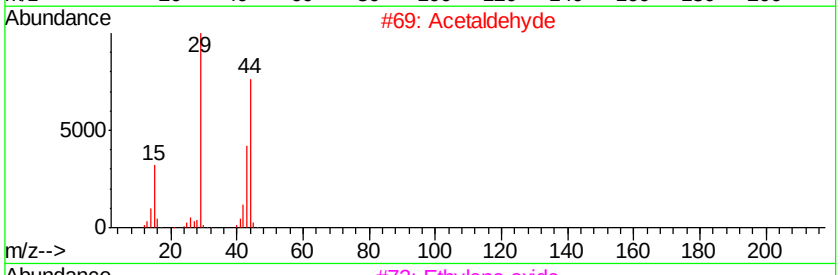
Peak Number 1 unknown2.32 Concentration Rank 5

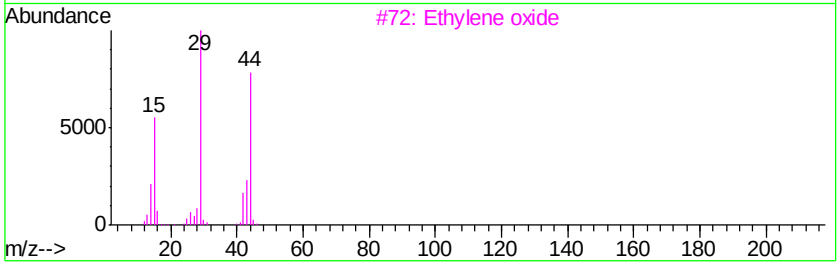
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.32 | 3.32 ug/l | 107380 | Bromochloromethane | 7.20 |

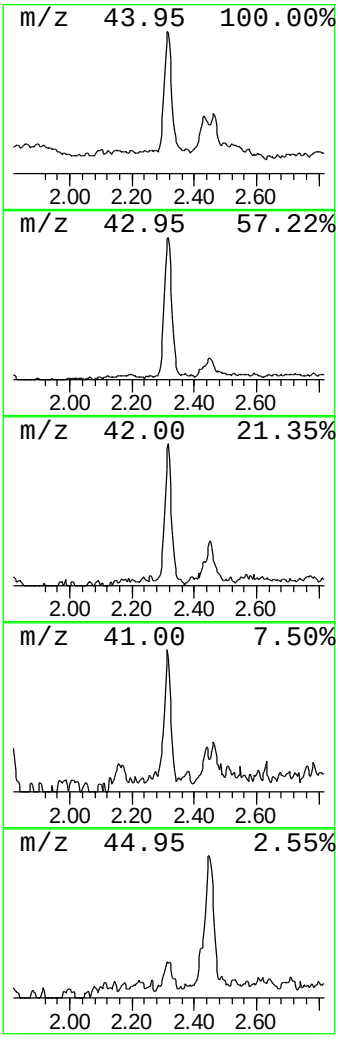
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 9 |
| 2 | Acetaldehyde | 44 | C2H4O | 000075-07-0 | 9 |
| 3 | Ethylene oxide | 44 | C2H4O | 000075-21-8 | 5 |
| 4 | Ethylene oxide | 44 | C2H4O | 000075-21-8 | 5 |
| 5 | Ethylene oxide | 44 | C2H4O | 000075-21-8 | 5 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN102418\
Data File : VN051982.D
Acq On : 24 Oct 2018 12:40
Operator : MD\SY
Sample : J5643-02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 28

**Instrument :** MSVOA_N
**ClientSampleId :** 002M-35TH-AVE-(SEP)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

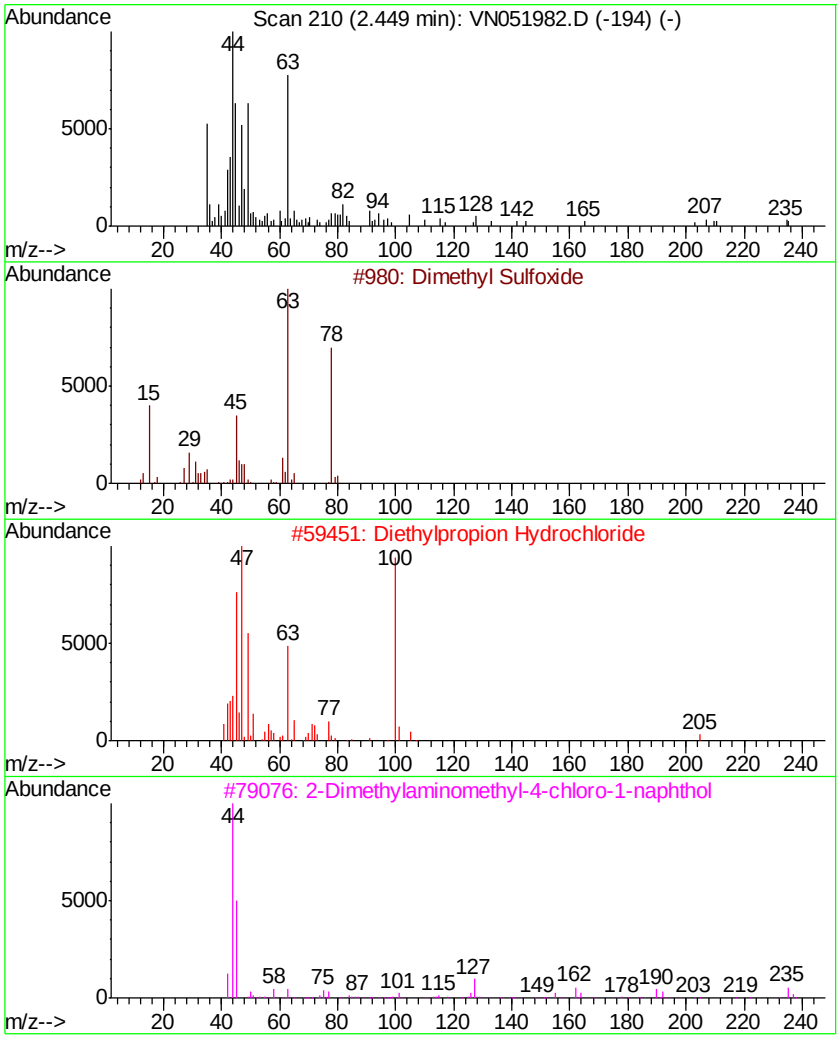
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

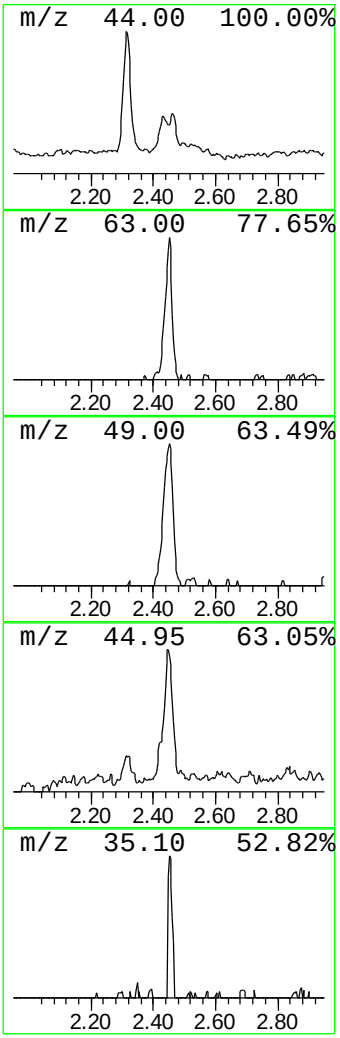
**********

Peak Number 2 unknown2.45 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.45 | 4.58 ug/l | 148141 | Bromochloromethane | 7.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dimethyl Sulfoxide | 78 | C2H6OS | 000067-68-5 | 17 |
| 2 | Diethylpropion Hydrochloride | 205 | C13H19NO | 000134-80-5 | 10 |
| 3 | 2-Dimethylaminomethyl-4-chloro-1... | 235 | C13H14ClNO | 167163-22-6 | 10 |
| 4 | Boron trifluoride | 68 | BF3 | 007637-07-2 | 9 |
| 5 | Methane, chloromethoxy- | 80 | C2H5ClO | 000107-30-2 | 9 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN102418\
Data File : VN051982.D
Acq On : 24 Oct 2018 12:40
Operator : MD\SY
Sample : J5643-02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 28

**Instrument :** MSVOA_N
**ClientSampleId :** 002M-35TH-AVE-(SEP)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

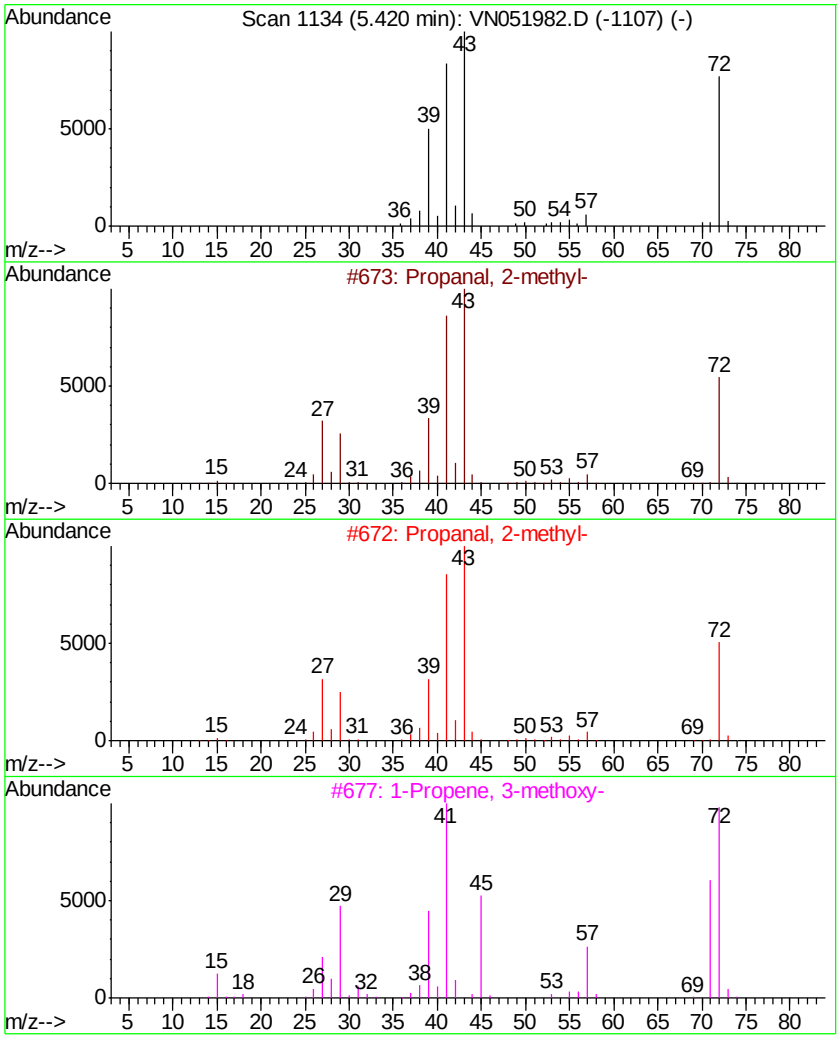
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

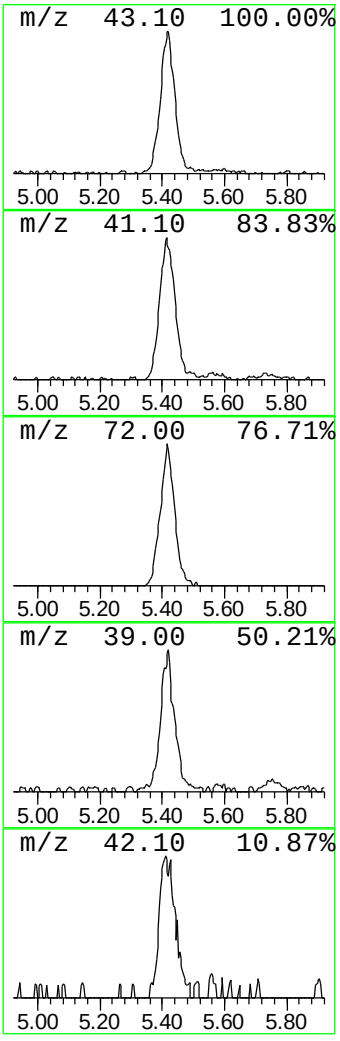
**********

Peak Number 3 Propanal, 2-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.42 | 5.43 ug/l | 175476 | Bromochloromethane | 7.20 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanal, 2-methyl- | 72 | C4H8O | 000078-84-2 | 91 |
| 2 | Propanal, 2-methyl- | 72 | C4H8O | 000078-84-2 | 72 |
| 3 | 1-Propene, 3-methoxy- | 72 | C4H8O | 000627-40-7 | 64 |
| 4 | Propanal, 2-methyl- | 72 | C4H8O | 000078-84-2 | 64 |
| 5 | Propanal, 2-methyl- | 72 | C4H8O | 000078-84-2 | 53 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN102418\
Data File : VN051982.D
Acq On : 24 Oct 2018 12:40
Operator : MD\SY
Sample : J5643-02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 28

**Instrument :** MSVOA_N
**ClientSampleId :** 002M-35TH-AVE-(SEP)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

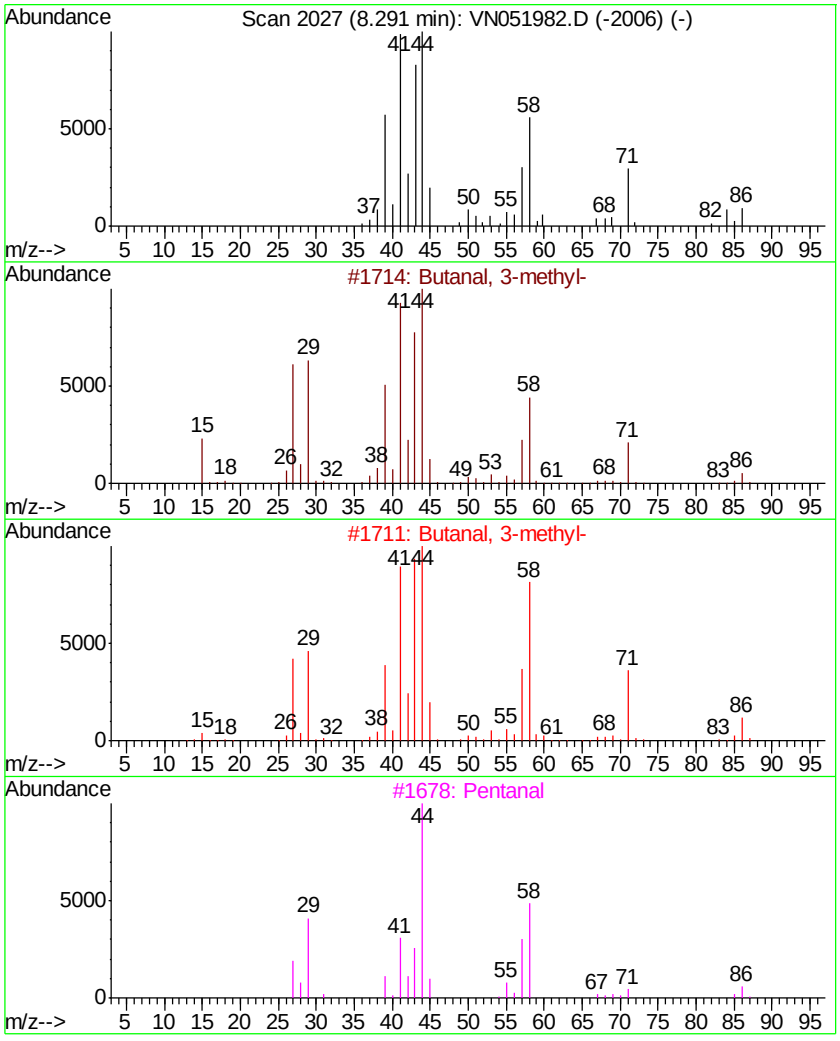
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

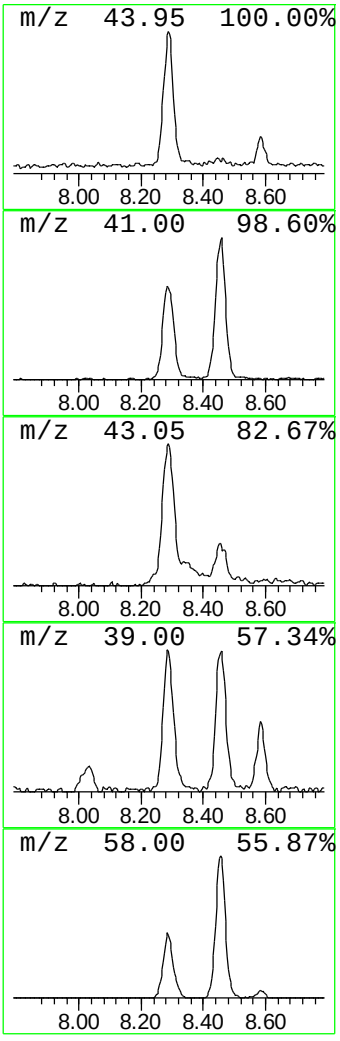
**********

Peak Number 4 Butanal, 3-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.29 | 3.60 ug/l | 232735 | 1,4-Difluorobenzene | 8.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 90 |
| 2 | Butanal, 3-methyl- | 86 | C5H10O | 000590-86-3 | 81 |
| 3 | Pentanal | 86 | C5H10O | 000110-62-3 | 47 |
| 4 | Ethanol, 2-(2-propenyloxy)- | 102 | C5H10O2 | 000111-45-5 | 32 |
| 5 | Pentanal | 86 | C5H10O | 000110-62-3 | 28 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN102418\
Data File : VN051982.D
Acq On : 24 Oct 2018 12:40
Operator : MD\SY
Sample : J5643-02
Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 28

**Instrument :** MSVOA_N
**ClientSampleId :** 002M-35TH-AVE-(SEP)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

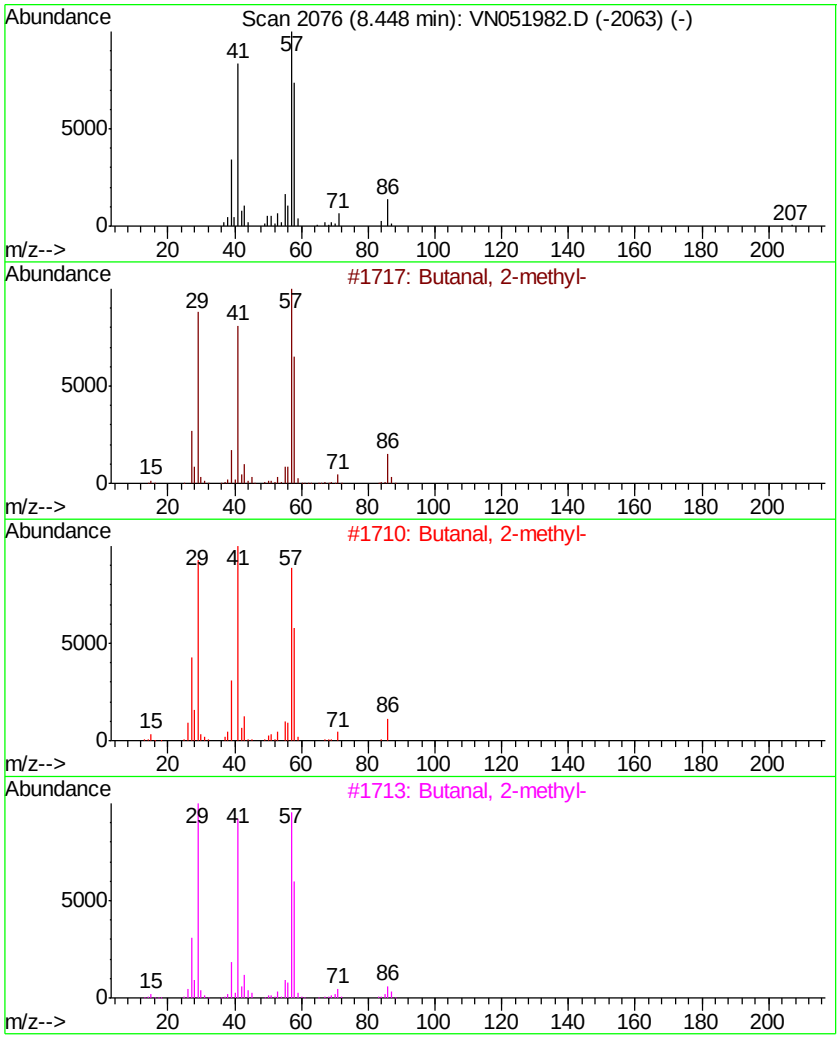
TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

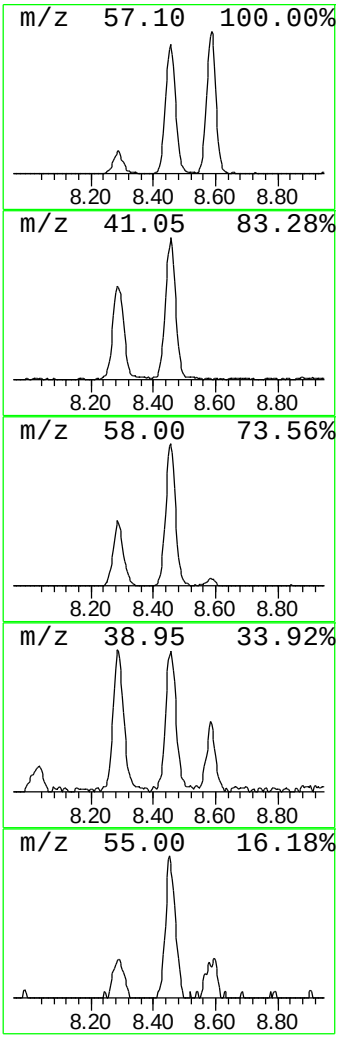
**********

Peak Number 5 Butanal, 2-methyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.45 | 3.87 ug/l | 250021 | 1,4-Difluorobenzene | 8.59 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butanal, 2-methyl- | 86 | C5H10O | 000096-17-3 | 86 |
| 2 | Butanal, 2-methyl- | 86 | C5H10O | 000096-17-3 | 68 |
| 3 | Butanal, 2-methyl- | 86 | C5H10O | 000096-17-3 | 56 |
| 4 | Butane, 1-(2-propenyloxy)- | 114 | C7H14O | 003739-64-8 | 53 |
| 5 | 1-Propene, 3-ethoxy- | 86 | C5H10O | 000557-31-3 | 53 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN102418\
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Misc : 5.00mL/MSVOA_N/WATER
ALS Vial : 10 Sample Multiplier: 28

**Instrument :** MSVOA_N
**ClientSampleId :** 002M-35TH-AVE-(SEP)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\624N101218W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS

TIC Library : C:\DATABASE\NIST02.L
TIC Integration Parameters: LSCINT.P

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| unknown2.32 | 2.32 | 3.3 | ug/l | 107380 | 1 | 7.20 | 970250 | 30.0 |
| unknown2.45 | 2.45 | 4.6 | ug/l | 148141 | 1 | 7.20 | 970250 | 30.0 |
| Propanal, 2-methyl- | 5.42 | 5.4 | ug/l | 175476 | 1 | 7.20 | 970250 | 30.0 |
| Butanal, 3-methyl- | 8.29 | 3.6 | ug/l | 232735 | 2 | 8.59 | 1940180 | 30.0 |
| Butanal, 2-methyl- | 8.45 | 3.9 | ug/l | 250021 | 2 | 8.59 | 1940180 | 30.0 |