LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** PR-MW-05-091218

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_X\METHOD\82X091118W.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 | 1.788 | 99 | 104 | 118 | rVB | 1204511 | 1671931 | 1.92% | 0.648% |
| 2 | 2.264 | 178 | 182 | 195 | rVB | 571379 | 906048 | 1.04% | 0.351% |
| 3 | 4.397 | 522 | 532 | 544 | rVB2 | 601147 | 1709085 | 1.96% | 0.663% |
| 4 | 5.306 | 653 | 681 | 697 | rVB | 335557 | 1094503 | 1.26% | 0.424% |
| 5 | 6.866 | 928 | 937 | 942 | rBV2 | 357872 | 941875 | 1.08% | 0.365% |
| 6 | 8.720 | 1235 | 1241 | 1246 | rBV | 827823 | 1298626 | 1.49% | 0.503% |
| 7 | 8.793 | 1246 | 1253 | 1260 | rVV | 21330181 | 32668034 | 37.49% | 12.664% |
| 8 | 10.116 | 1464 | 1470 | 1475 | rBV | 728151 | 953161 | 1.09% | 0.369% |
| 9 | 10.262 | 1487 | 1494 | 1504 | rVB | 21981589 | 30995349 | 35.57% | 12.015% |
| 10 | 10.378 | 1504 | 1513 | 1518 | rBV2 | 50960035 | 87128578 | 100.00% | 33.775% |
| 11 | 10.701 | 1560 | 1566 | 1577 | rVB | 3010464 | 3680714 | 4.22% | 1.427% |
| 12 | 11.018 | 1612 | 1618 | 1631 | rBV | 3013895 | 3861171 | 4.43% | 1.497% |
| 13 | 11.140 | 1633 | 1638 | 1643 | rBV | 766561 | 938024 | 1.08% | 0.364% |
| 14 | 11.359 | 1666 | 1674 | 1681 | rBV | 2686958 | 3331945 | 3.82% | 1.292% |
| 15 | 11.439 | 1681 | 1687 | 1694 | rVV | 9884845 | 17325998 | 19.89% | 6.716% |
| 16 | 11.512 | 1694 | 1699 | 1704 | rVB | 5472818 | 6828334 | 7.84% | 2.647% |
| 17 | 11.670 | 1719 | 1725 | 1733 | rBV | 809937 | 987508 | 1.13% | 0.383% |
| 18 | 11.811 | 1743 | 1748 | 1753 | rBV | 20199810 | 25312780 | 29.05% | 9.812% |
| 19 | 12.079 | 1787 | 1792 | 1797 | rVB2 | 1002661 | 1311333 | 1.51% | 0.508% |
| 20 | 12.146 | 1797 | 1803 | 1808 | rBV | 4892606 | 5861972 | 6.73% | 2.272% |
| 21 | 12.298 | 1823 | 1828 | 1836 | rBV2 | 4442612 | 6475366 | 7.43% | 2.510% |
| 22 | 12.371 | 1836 | 1840 | 1850 | rVB3 | 1383192 | 1990378 | 2.28% | 0.772% |
| 23 | 12.585 | 1870 | 1875 | 1878 | rBV | 821046 | 1212169 | 1.39% | 0.470% |
| 24 | 12.670 | 1884 | 1889 | 1892 | rBV | 1417011 | 1616460 | 1.86% | 0.627% |
| 25 | 12.756 | 1899 | 1903 | 1912 | rBV2 | 548113 | 965079 | 1.11% | 0.374% |
| 26 | 12.981 | 1932 | 1940 | 1943 | rBV | 902970 | 1153042 | 1.32% | 0.447% |
| 27 | 13.018 | 1943 | 1946 | 1952 | rVB | 1483812 | 1729321 | 1.98% | 0.670% |
| 28 | 13.347 | 1996 | 2000 | 2005 | rVB2 | 1787036 | 2450517 | 2.81% | 0.950% |
| 29 | 13.481 | 2017 | 2022 | 2030 | rVB | 738140 | 914086 | 1.05% | 0.354% |
| 30 | 13.835 | 2072 | 2080 | 2088 | rBV | 5525662 | 6919633 | 7.94% | 2.682% |
| 31 | 14.694 | 2213 | 2221 | 2226 | rBV | 1739972 | 2240602 | 2.57% | 0.869% |
| 32 | 14.841 | 2239 | 2245 | 2250 | rBV | 1238070 | 1494528 | 1.72% | 0.579% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** PR-MW-05-091218

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_X\METHOD\82X091118W.M
Title : SW846 8260

Sum of corrected areas: 257968150

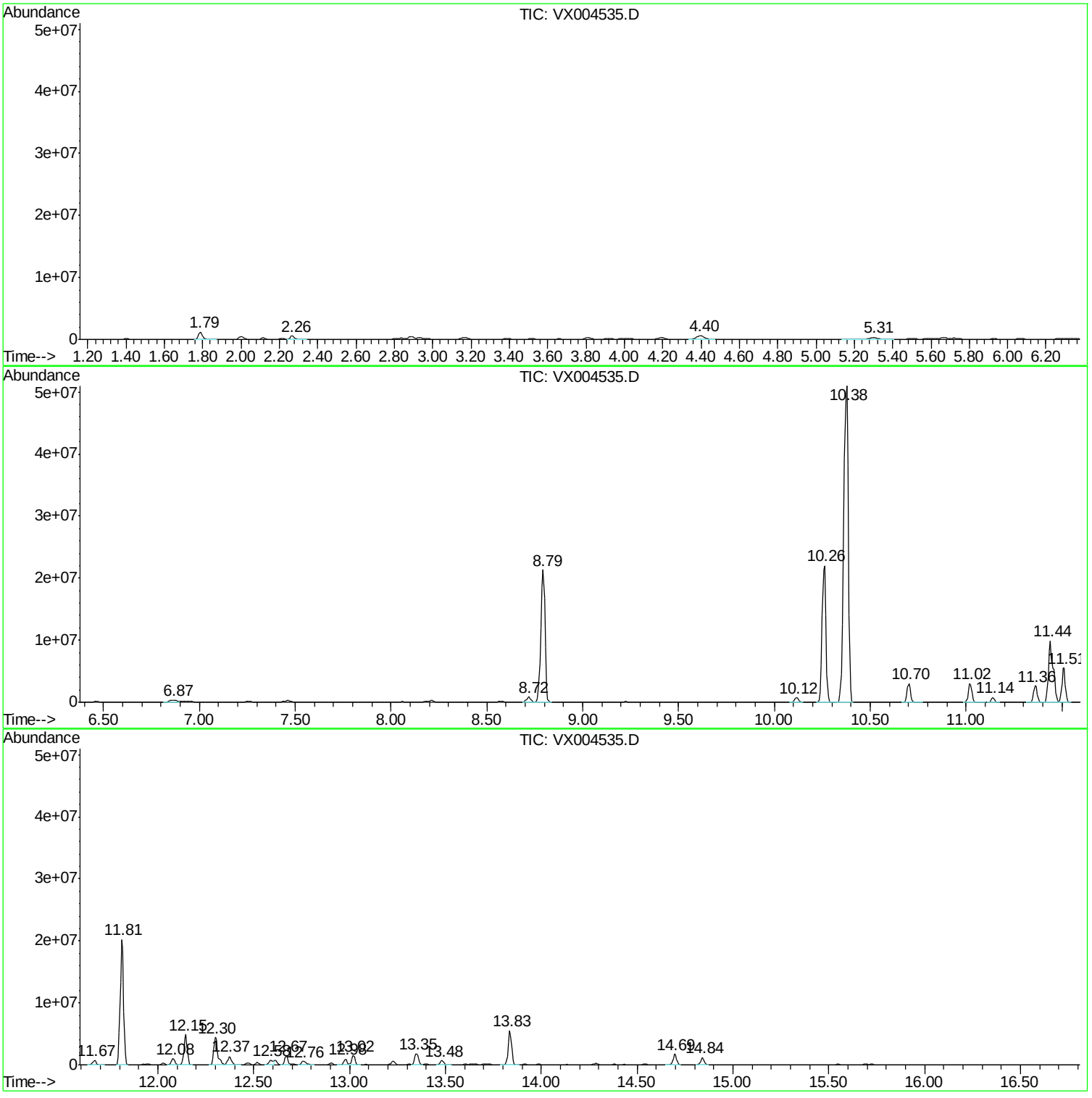
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** PR-MW-05-091218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** PR-MW-05-091218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260

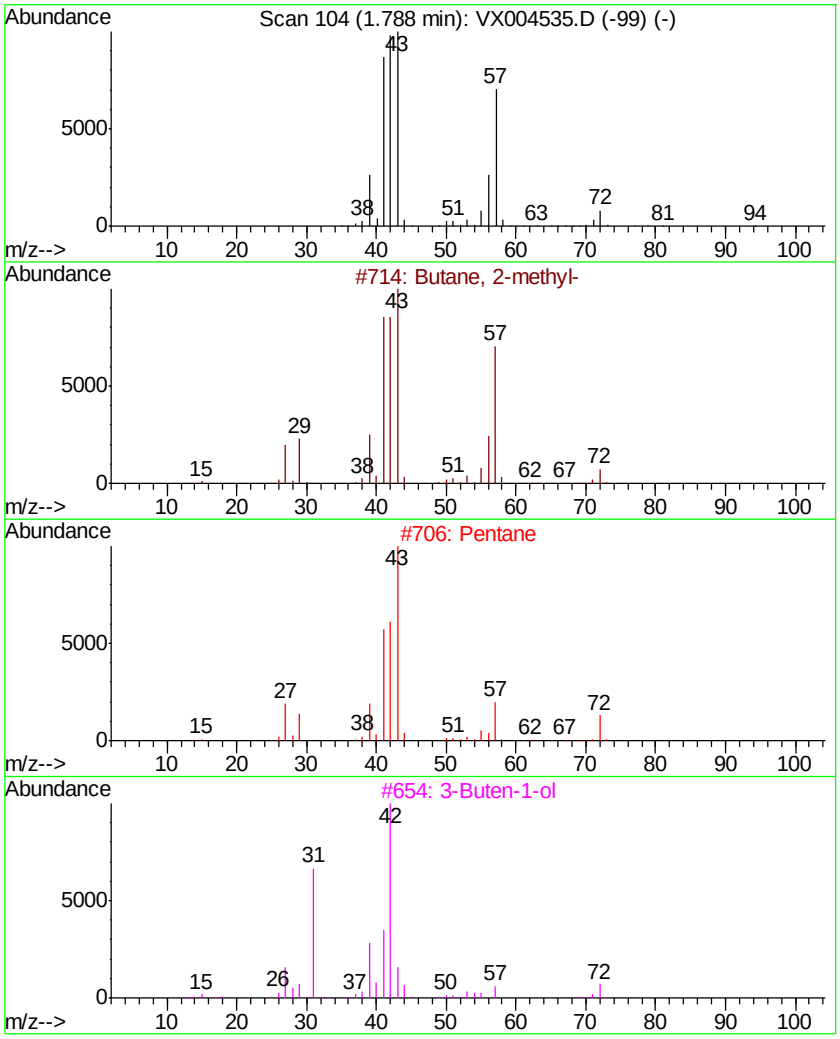
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

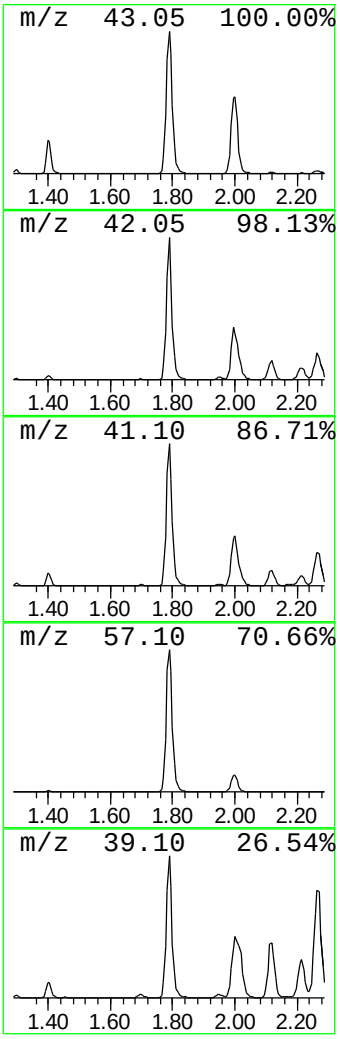
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.79 | 76.38 ug/l | 1671930 | Pentafluorobenzene | 5.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 94 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 36 |
| 3 | 3-Buten-1-ol | 72 | C4H8O | 000627-27-0 | 28 |
| 4 | 1-Butene | 56 | C4H8 | 000106-98-9 | 9 |
| 5 | Methane, isocyanato- | 57 | C2H3NO | 000624-83-9 | 9 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** PR-MW-05-091218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260

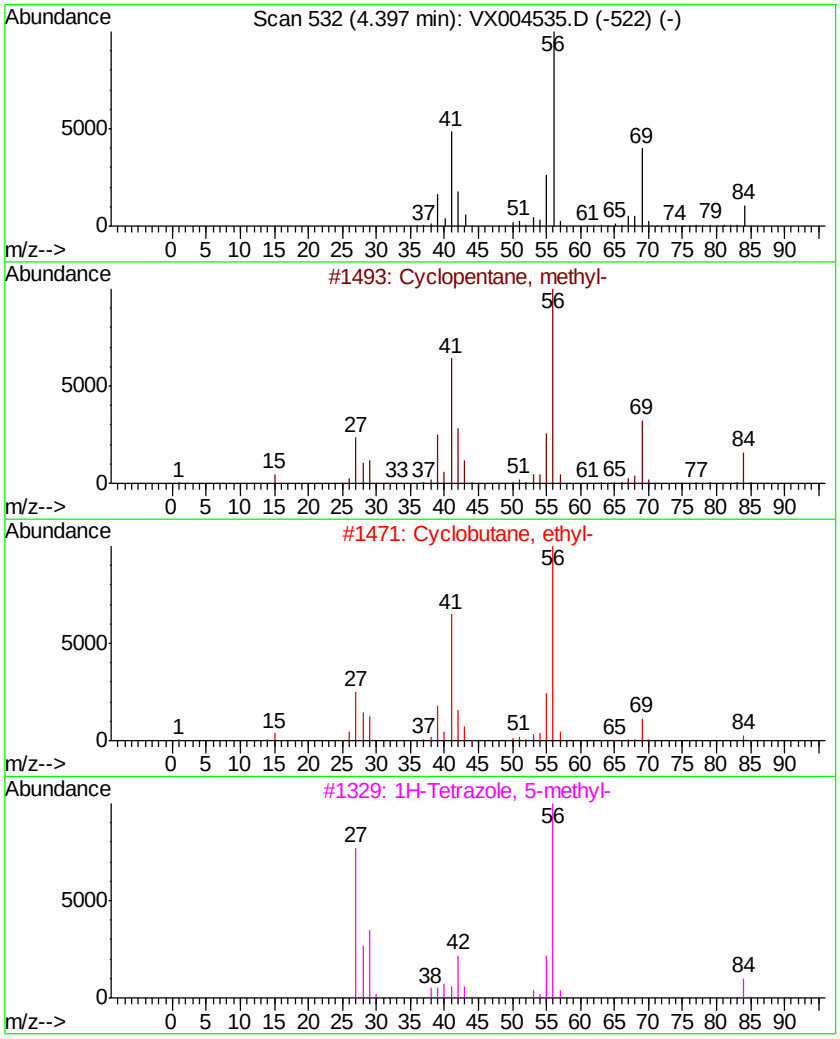
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

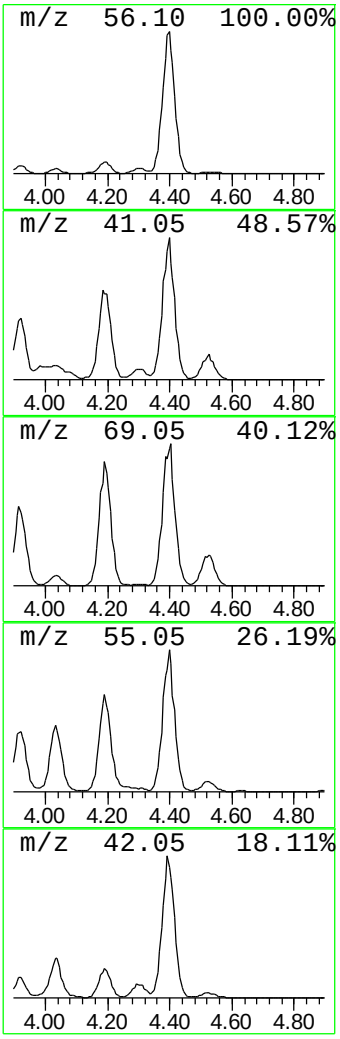
**********

Peak Number 2 Cyclopentane, methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.40 | 78.08 ug/l | 1709090 | Pentafluorobenzene | 5.67 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 91 |
| 2 | Cyclobutane, ethyl- | 84 | C6H12 | 004806-61-5 | 78 |
| 3 | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4 | 004076-36-2 | 50 |
| 4 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 49 |
| 5 | 2H-Pyran-2,6(3H)-dione, dihydro-... | 142 | C7H10O3 | 004160-82-1 | 38 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** PR-MW-05-091218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260

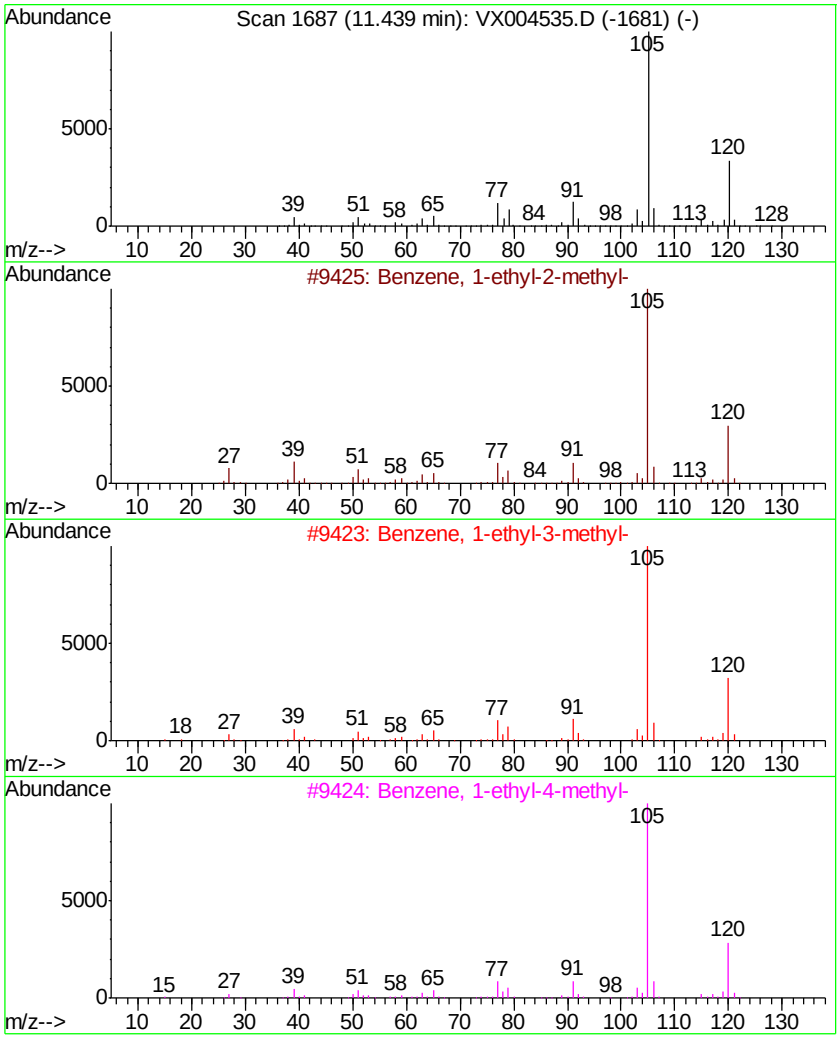
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

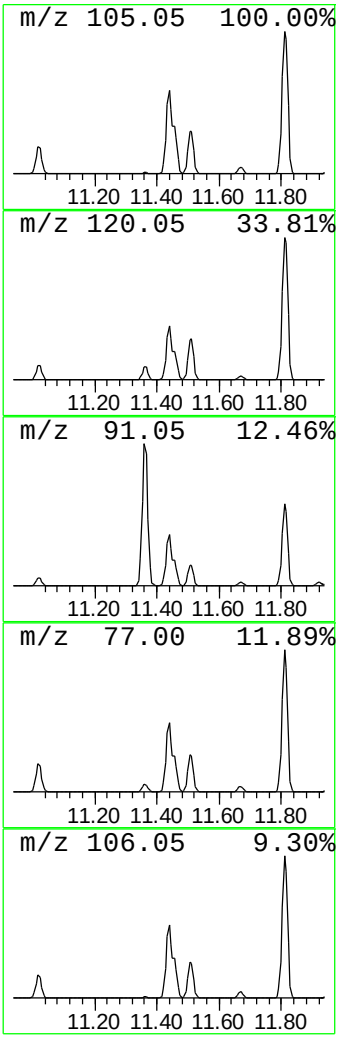
**********

Peak Number 3 Benzene, 1-ethyl-2-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.44 | 660.63 ug/l | 17326000 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 2 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 95 |
| 3 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |
| 4 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 5 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** PR-MW-05-091218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260

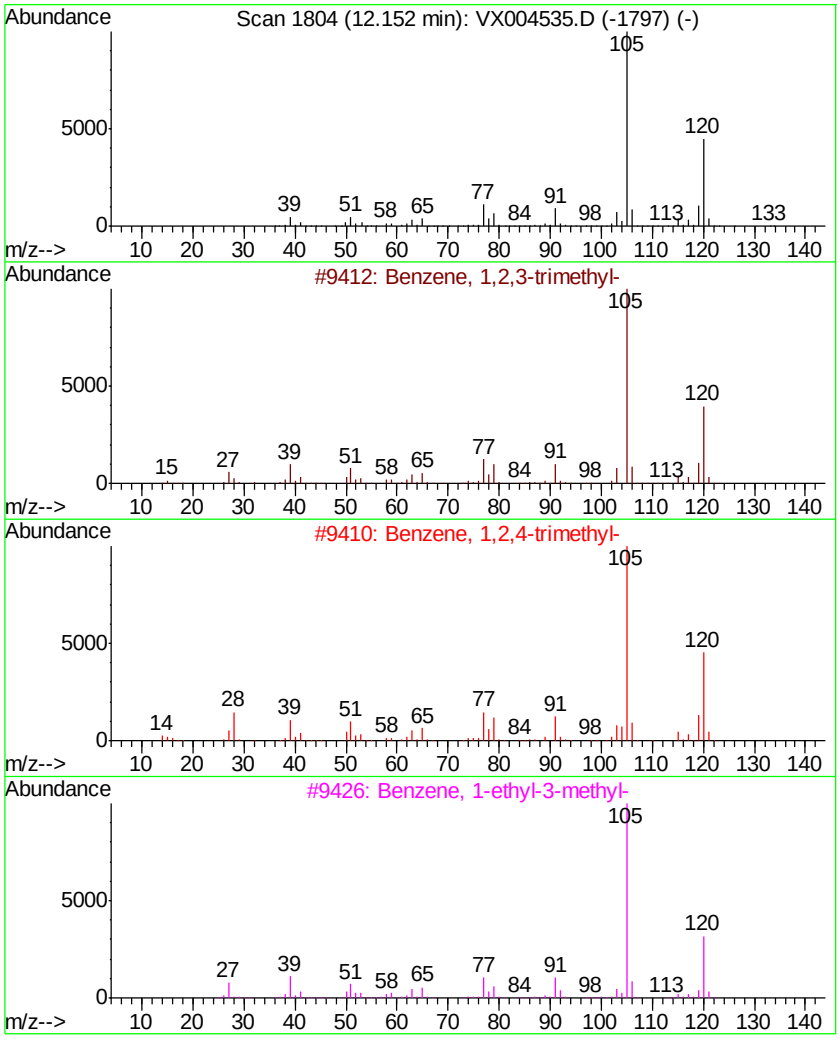
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

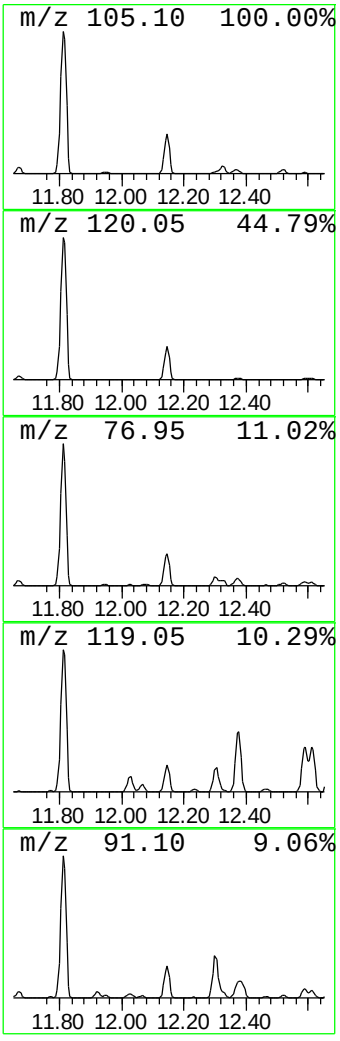
**********

Peak Number 4 Benzene, 1,2,3-trimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.15 | 223.51 ug/l | 5861970 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 95 |
| 2 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 4 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 90 |
| 5 | Mesitylene | 120 | C9H12 | 000108-67-8 | 87 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** PR-MW-05-091218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260

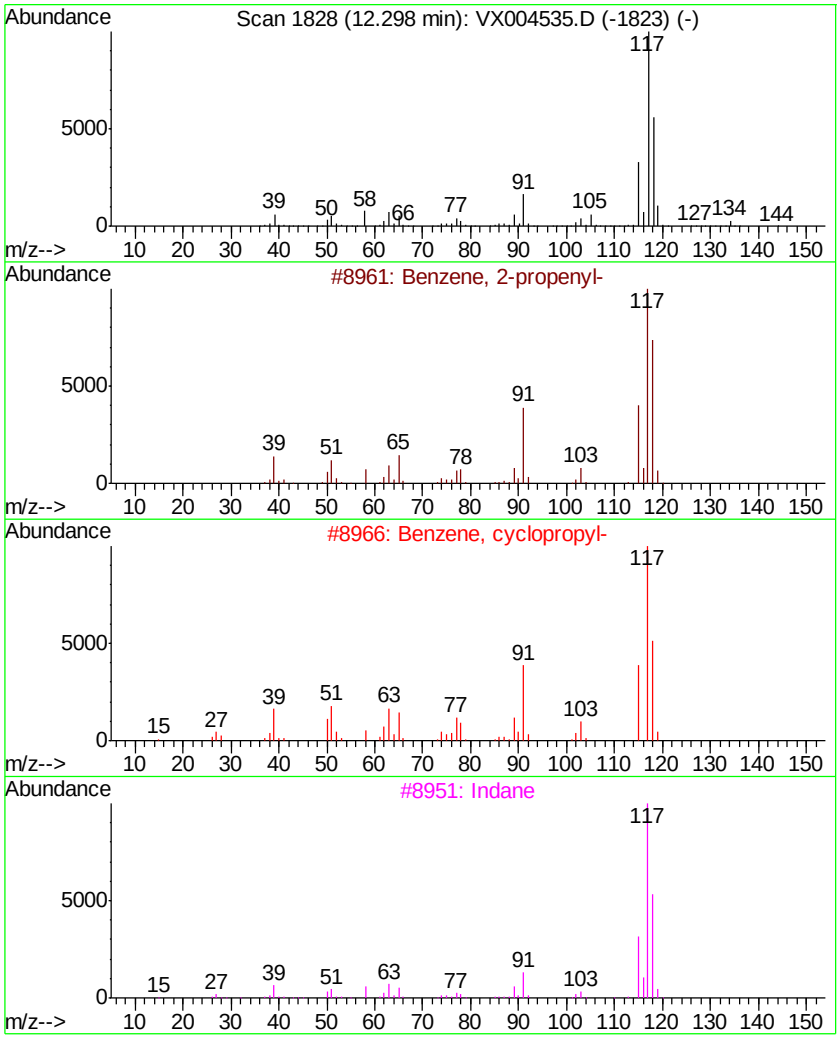
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

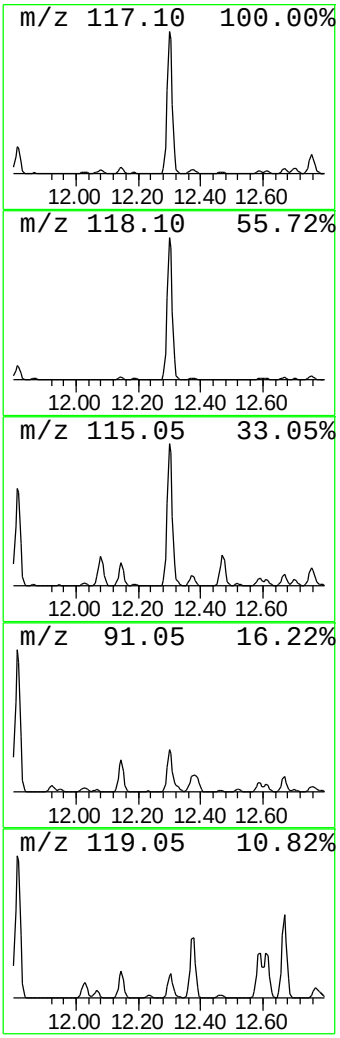
**********

Peak Number 5 Benzene, 2-propenyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.30 | 246.90 ug/l | 6475370 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 87 |
| 2 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 81 |
| 3 | Indane | 118 | C9H10 | 000496-11-7 | 81 |
| 4 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 81 |
| 5 | Benzene, 1,1'-(1,5-hexadiene-1,6... | 234 | C18H18 | 004439-45-6 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** PR-MW-05-091218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260

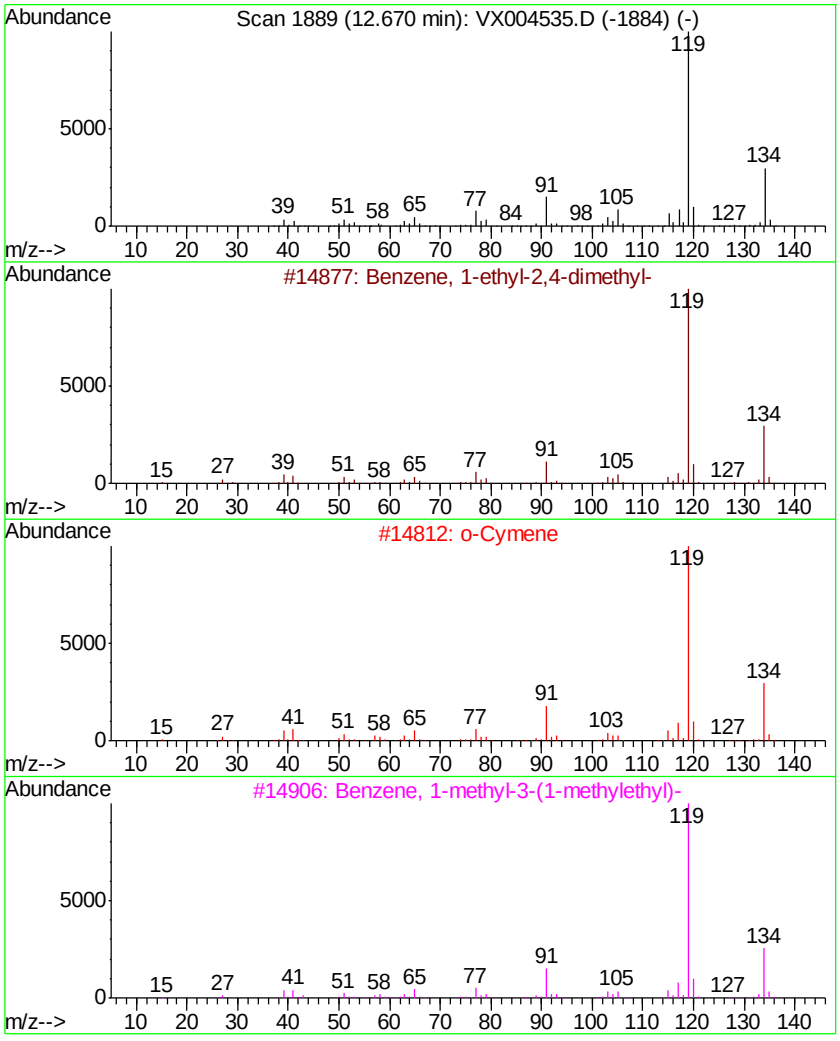
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

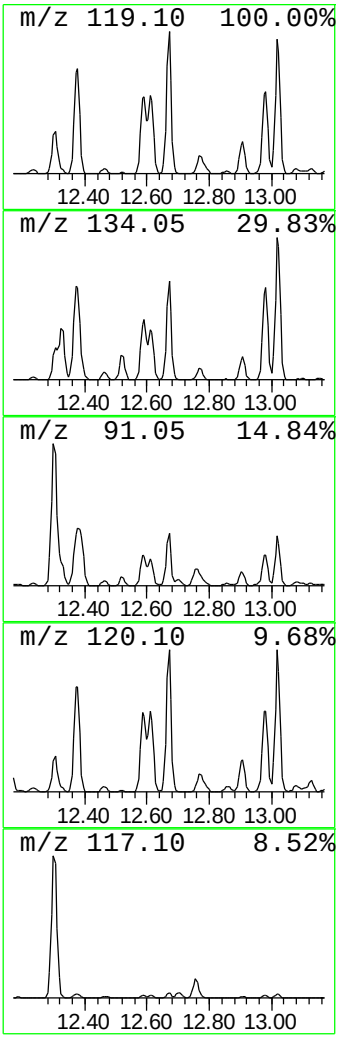
**********

Peak Number 6 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.67 | 61.63 ug/l | 1616460 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 97 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 97 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 95 |
| 4 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 95 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 95 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** PR-MW-05-091218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260

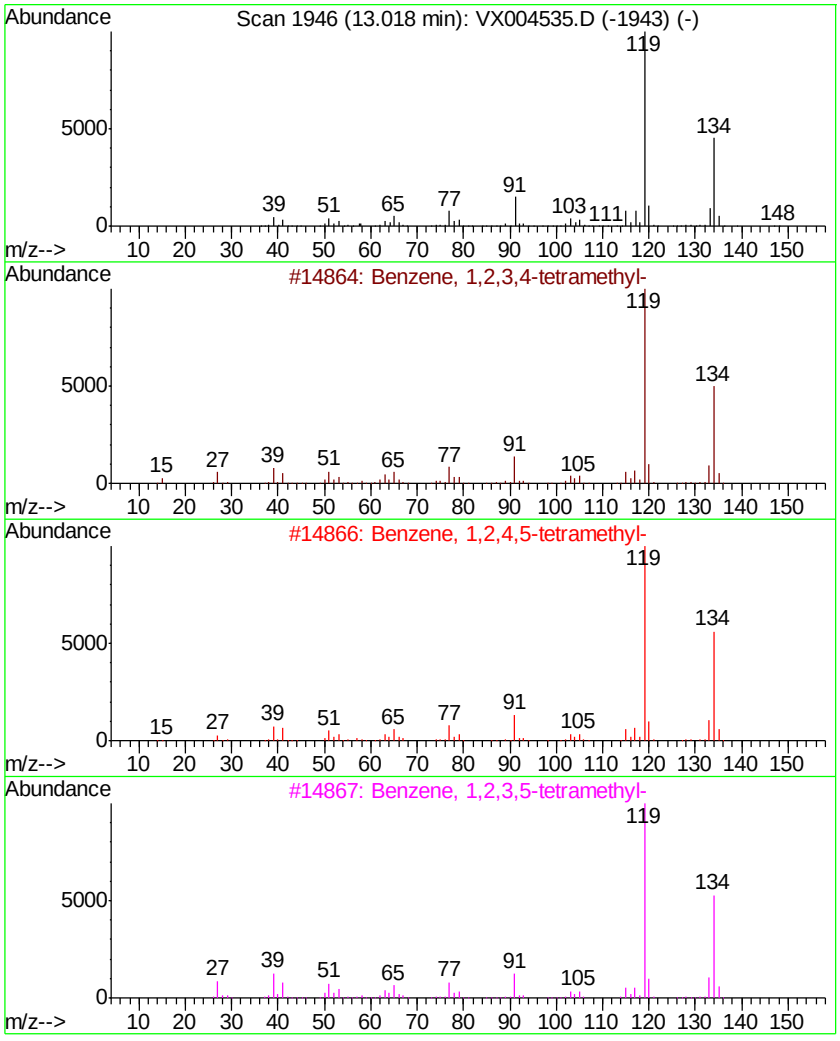
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

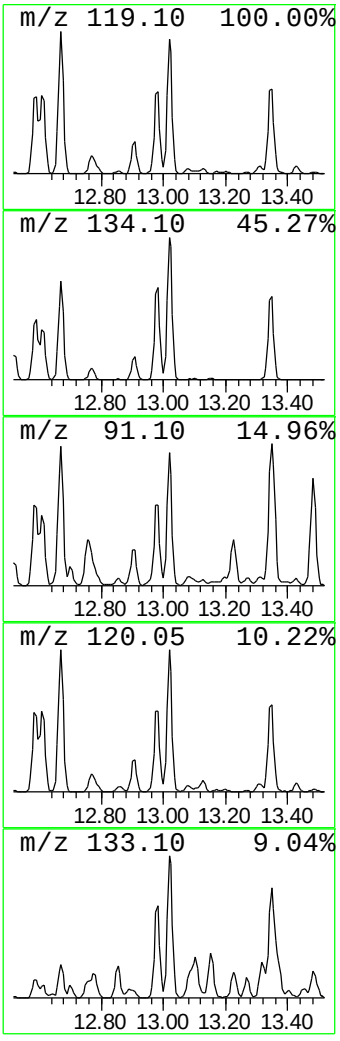
**********

Peak Number 7 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.02 | 65.94 ug/l | 1729320 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 97 |
| 2 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 97 |
| 3 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 97 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 5 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** PR-MW-05-091218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260

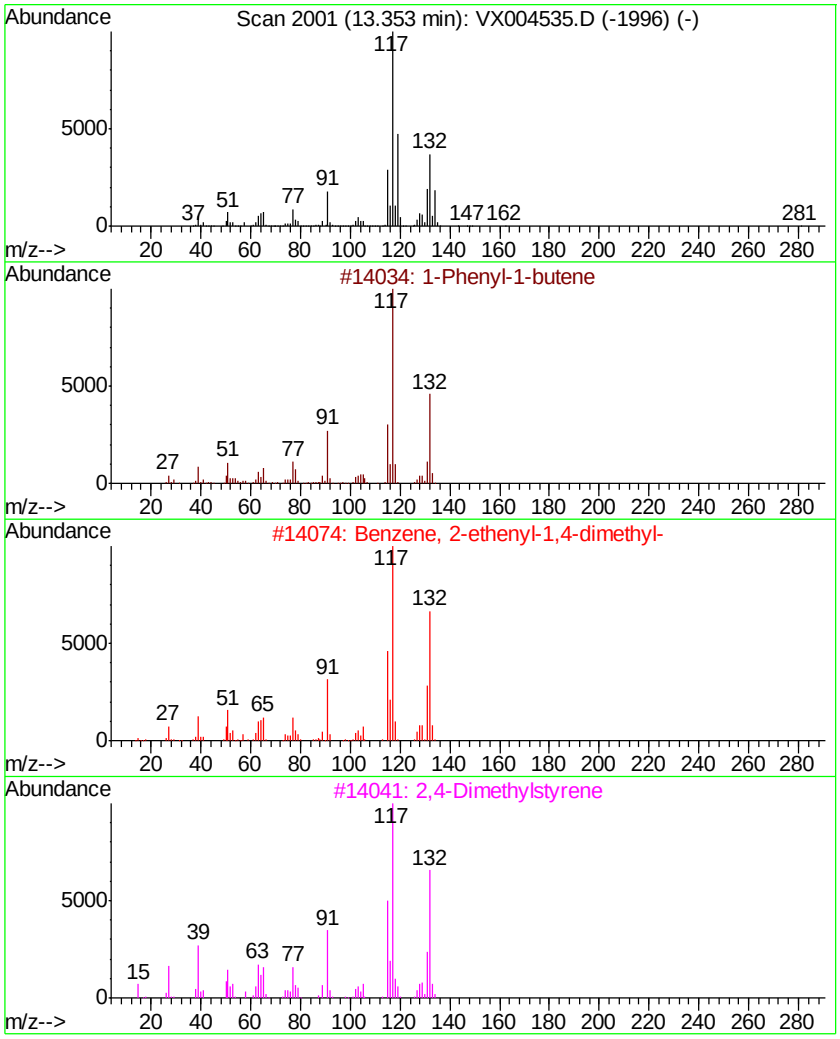
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

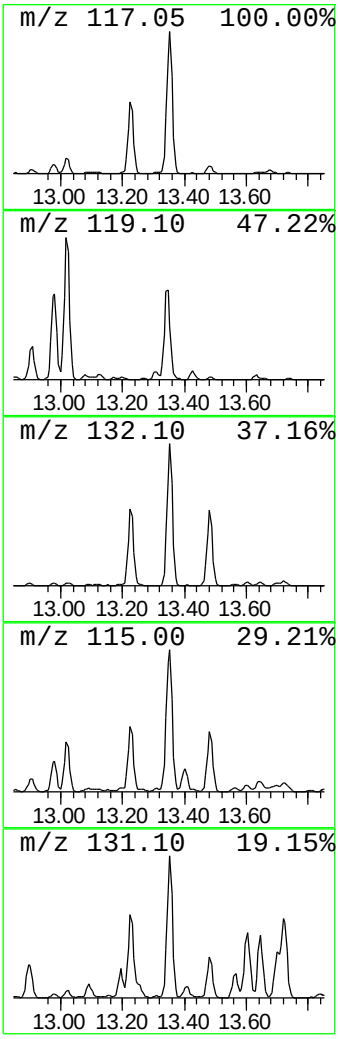
**********

Peak Number 8 1-Phenyl-1-butene Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.35 | 93.44 ug/l | 2450520 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 90 |
| 2 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 78 |
| 3 | 2,4-Dimethylstyrene | 132 | C10H12 | 002234-20-0 | 74 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 55 |
| 5 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 55 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** PR-MW-05-091218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.M
Quant Title : SW846 8260

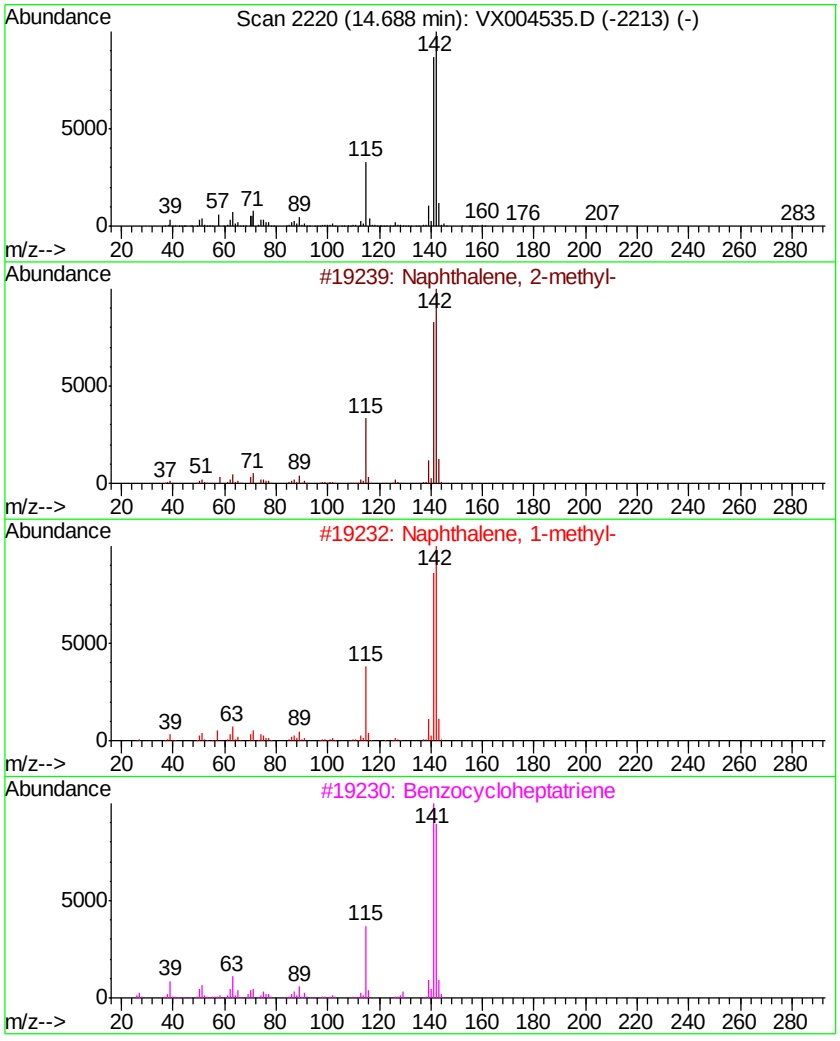
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

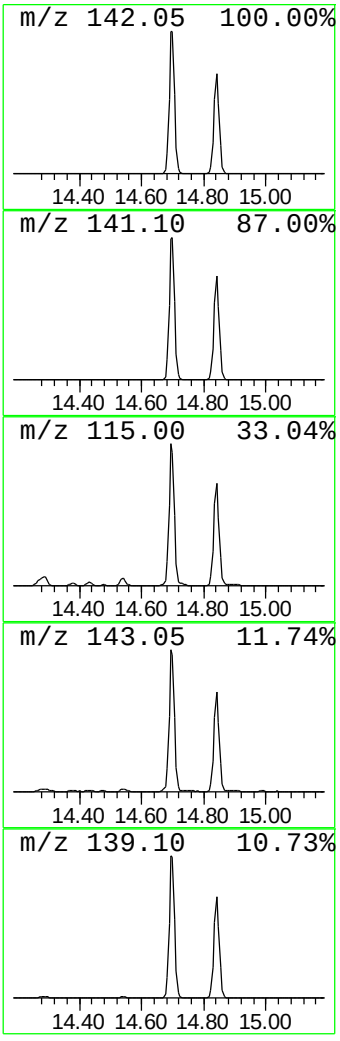
**********

Peak Number 9 Naphthalene, 1-methyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.69 | 85.43 ug/l | 2240600 | 1,4-Dichlorobenzene-d4 | 12.08 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 2 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 3 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 91 |
| 4 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 90 |
| 5 | 3-Indolecarbonitrile | 142 | C9H6N2 | 005457-28-3 | 43 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_X\DATA\VX091418\
Data File : VX004535.D
Acq On : 14 Sep 2018 13:07
Operator : JC/MD
Sample : J4892-12
Misc : 5.0mL/MSVOA_X/WATER
ALS Vial : 7 Sample Multiplier: 1

**Instrument :** MSVOA_X
**ClientSampleId :** PR-MW-05-091218

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X091118W.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 |
| Butane, 2-methyl- | 1.79 | 76.4 | ug/l | 1671930 | 1 | 5.67 | 1094500 | 50.0 |
| Cyclopentane, met... | 4.40 | 78.1 | ug/l | 1709090 | 1 | 5.67 | 1094500 | 50.0 |
| Benzene, 1-ethyl-... | 11.44 | 660.6 | ug/l | 17326000 | 4 | 12.08 | 1311330 | 50.0 |
| Benzene, 1,2,3-tr... | 12.15 | 223.5 | ug/l | 5861970 | 4 | 12.08 | 1311330 | 50.0 |
| Benzene, 2-propenyl- | 12.30 | 246.9 | ug/l | 6475370 | 4 | 12.08 | 1311330 | 50.0 |
| Benzene, 1-ethyl-... | 12.67 | 61.6 | ug/l | 1616460 | 4 | 12.08 | 1311330 | 50.0 |
| Benzene, 1,2,3,4-... | 13.02 | 65.9 | ug/l | 1729320 | 4 | 12.08 | 1311330 | 50.0 |
| 1-Phenyl-1-butene | 13.35 | 93.4 | ug/l | 2450520 | 4 | 12.08 | 1311330 | 50.0 |
| Naphthalene, 1-me... | 14.69 | 85.4 | ug/l | 2240600 | 4 | 12.08 | 1311330 | 50.0 |