# LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112420\
Data File : VD067773.D
Acq On : 24 Nov 2020 17:37
Operator : VA/SY
Sample : L4858-02
Misc : 5.74G/5.00ml/MSVOA D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** PHC-340EM-013

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_D\METHOD\82D112320S.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 | 3.032 | 184 | 189 | 190 | rBV | 1926 | 2438 | 1.04% | 0.126% |
| 2 | 4.162 | 374 | 381 | 388 | rVB3 | 4546 | 11157 | 4.74% | 0.579% |
| 3 | 4.415 | 418 | 424 | 434 | rVB3 | 2152 | 5799 | 2.47% | 0.301% |
| 4 | 4.973 | 508 | 519 | 523 | rBV5 | 5539 | 15723 | 6.69% | 0.816% |
| 5 | 5.497 | 596 | 608 | 614 | rBV4 | 5148 | 16247 | 6.91% | 0.843% |
| 6 | 7.032 | 859 | 869 | 876 | rBV5 | 10558 | 29164 | 12.40% | 1.513% |
| 7 | 7.209 | 891 | 899 | 900 | rBV3 | 1408 | 2816 | 1.20% | 0.146% |
| 8 | 7.920 | 1012 | 1020 | 1025 | rBV2 | 43453 | 97724 | 41.55% | 5.070% |
| 9 | 7.985 | 1025 | 1031 | 1039 | rVV3 | 63895 | 148816 | 63.27% | 7.720% |
| 10 | 8.067 | 1039 | 1045 | 1051 | rVB5 | 3327 | 7750 | 3.30% | 0.402% |
| 11 | 8.191 | 1061 | 1066 | 1071 | rVB3 | 1714 | 2612 | 1.11% | 0.136% |
| 12 | 8.256 | 1071 | 1077 | 1082 | rBV5 | 5594 | 12121 | 5.15% | 0.629% |
| 13 | 8.338 | 1082 | 1091 | 1099 | rVV3 | 47863 | 106608 | 45.33% | 5.530% |
| 14 | 8.467 | 1105 | 1113 | 1119 | rBV6 | 10473 | 23098 | 9.82% | 1.198% |
| 15 | 8.532 | 1119 | 1124 | 1130 | rVV4 | 8638 | 20162 | 8.57% | 1.046% |
| 16 | 8.608 | 1130 | 1137 | 1144 | rVB4 | 12210 | 27543 | 11.71% | 1.429% |
| 17 | 8.867 | 1173 | 1181 | 1191 | rBV | 81406 | 158481 | 67.38% | 8.221% |
| 18 | 9.355 | 1253 | 1264 | 1273 | rBV5 | 33641 | 83556 | 35.53% | 4.335% |
| 19 | 9.620 | 1306 | 1309 | 1319 | rVB4 | 5568 | 11606 | 4.93% | 0.602% |
| 20 | 9.773 | 1330 | 1335 | 1341 | rBV4 | 6965 | 12924 | 5.50% | 0.670% |
| 21 | 10.344 | 1424 | 1432 | 1449 | rBV | 117980 | 235195 | 100.00% | 12.201% |
| 22 | 10.514 | 1457 | 1461 | 1466 | rVB2 | 4720 | 7352 | 3.13% | 0.381% |
| 23 | 10.691 | 1485 | 1491 | 1496 | rBV3 | 9550 | 15556 | 6.61% | 0.807% |
| 24 | 10.773 | 1502 | 1505 | 1511 | rBV3 | 3629 | 6135 | 2.61% | 0.318% |
| 25 | 11.197 | 1572 | 1577 | 1581 | rVB4 | 4764 | 7550 | 3.21% | 0.392% |
| 26 | 11.249 | 1581 | 1586 | 1591 | rBV3 | 7676 | 13271 | 5.64% | 0.688% |
| 27 | 11.449 | 1615 | 1620 | 1624 | rBV5 | 2871 | 4576 | 1.95% | 0.237% |
| 28 | 11.649 | 1647 | 1654 | 1661 | rVB | 116464 | 200596 | 85.29% | 10.406% |
| 29 | 11.744 | 1665 | 1670 | 1673 | rVV4 | 3343 | 4410 | 1.88% | 0.229% |
| 30 | 11.855 | 1681 | 1689 | 1694 | rVV3 | 5936 | 14462 | 6.15% | 0.750% |
| 31 | 11.897 | 1694 | 1696 | 1700 | rVV4 | 3691 | 5260 | 2.24% | 0.273% |
| 32 | 12.155 | 1732 | 1740 | 1742 | rBV3 | 3918 | 6400 | 2.72% | 0.332% |
| 33 | 12.179 | 1742 | 1744 | 1751 | rVB3 | 3337 | 5155 | 2.19% | 0.267% |
| 34 | 12.361 | 1770 | 1775 | 1779 | rVV3 | 4927 | 8299 | 3.53% | 0.431% |

LSC Area Percent Report

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Sample : L4858-02
Misc : 5.74G/5.00ml/MSVOA D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** PHC-340EM-013

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_D\METHOD\82D112320S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.391 | 1779 | 1780 | 1786 | rVV3 | 2777 | 3876 | 1.65% | 0.201% |
| 36 | 12.479 | 1793 | 1795 | 1800 | rVB3 | 2283 | 3475 | 1.48% | 0.180% |
| 37 | 12.638 | 1815 | 1822 | 1828 | rBV | 86800 | 142166 | 60.45% | 7.375% |
| 38 | 12.714 | 1832 | 1835 | 1841 | rBV5 | 2480 | 5210 | 2.22% | 0.270% |
| 39 | 12.796 | 1845 | 1849 | 1859 | rVB6 | 5965 | 12788 | 5.44% | 0.663% |
| 40 | 12.885 | 1859 | 1864 | 1867 | rBV4 | 4473 | 8116 | 3.45% | 0.421% |
| 41 | 12.961 | 1871 | 1877 | 1882 | rVV5 | 9771 | 20029 | 8.52% | 1.039% |
| 42 | 13.185 | 1913 | 1915 | 1916 | rBV | 3653 | 2402 | 1.02% | 0.125% |
| 43 | 13.273 | 1926 | 1930 | 1934 | rVB4 | 12587 | 18478 | 7.86% | 0.959% |
| 44 | 13.402 | 1947 | 1952 | 1957 | rVB2 | 2582 | 4218 | 1.79% | 0.219% |
| 45 | 13.455 | 1957 | 1961 | 1963 | rBV2 | 4592 | 5852 | 2.49% | 0.304% |
| 46 | 13.514 | 1968 | 1971 | 1974 | rVB2 | 2685 | 2998 | 1.27% | 0.156% |
| 47 | 13.579 | 1974 | 1982 | 1992 | rBV | 109155 | 191138 | 81.27% | 9.915% |
| 48 | 13.755 | 2005 | 2012 | 2013 | rBV4 | 3947 | 7553 | 3.21% | 0.392% |
| 49 | 13.773 | 2013 | 2015 | 2018 | rVV3 | 6646 | 7272 | 3.09% | 0.377% |
| 50 | 13.808 | 2018 | 2021 | 2027 | rVB2 | 4672 | 7493 | 3.19% | 0.389% |
| 51 | 13.896 | 2032 | 2036 | 2042 | rBV6 | 9672 | 16547 | 7.04% | 0.858% |
| 52 | 13.979 | 2045 | 2050 | 2052 | rVB3 | 2457 | 3926 | 1.67% | 0.204% |
| 53 | 14.026 | 2052 | 2058 | 2059 | rBV3 | 3758 | 3086 | 1.31% | 0.160% |
| 54 | 14.061 | 2062 | 2064 | 2069 | rVB2 | 3360 | 4917 | 2.09% | 0.255% |
| 55 | 14.120 | 2069 | 2074 | 2079 | rBV2 | 13695 | 16302 | 6.93% | 0.846% |
| 56 | 14.185 | 2079 | 2085 | 2086 | rBV3 | 1778 | 2778 | 1.18% | 0.144% |
| 57 | 14.232 | 2086 | 2093 | 2098 | rVB6 | 10943 | 21671 | 9.21% | 1.124% |
| 58 | 14.279 | 2098 | 2101 | 2103 | rBV3 | 3947 | 4726 | 2.01% | 0.245% |
| 59 | 14.367 | 2109 | 2116 | 2121 | rVB6 | 4439 | 8196 | 3.48% | 0.425% |
| 60 | 14.408 | 2121 | 2123 | 2125 | rBV3 | 3031 | 3354 | 1.43% | 0.174% |
| 61 | 14.449 | 2125 | 2130 | 2132 | rVV3 | 6219 | 10418 | 4.43% | 0.540% |
| 62 | 14.479 | 2132 | 2135 | 2139 | rVV3 | 6564 | 8344 | 3.55% | 0.433% |
| 63 | 14.526 | 2139 | 2143 | 2147 | rVB3 | 2776 | 3128 | 1.33% | 0.162% |
| 64 | 14.573 | 2147 | 2151 | 2153 | rBV4 | 3085 | 3670 | 1.56% | 0.190% |
| 65 | 14.820 | 2187 | 2193 | 2201 | rVB4 | 11936 | 24006 | 10.21% | 1.245% |
| 66 | 15.014 | 2223 | 2226 | 2230 | rVB4 | 2100 | 2998 | 1.27% | 0.156% |
| 67 | 15.396 | 2286 | 2291 | 2299 | rBV2 | 6611 | 12570 | 5.34% | 0.652% |
| 68 | 16.496 | 2476 | 2478 | 2483 | rVV4 | 2151 | 3411 | 1.45% | 0.177% |

Sum of corrected areas: 1927674

LSC Report - Integrated Chromatogram

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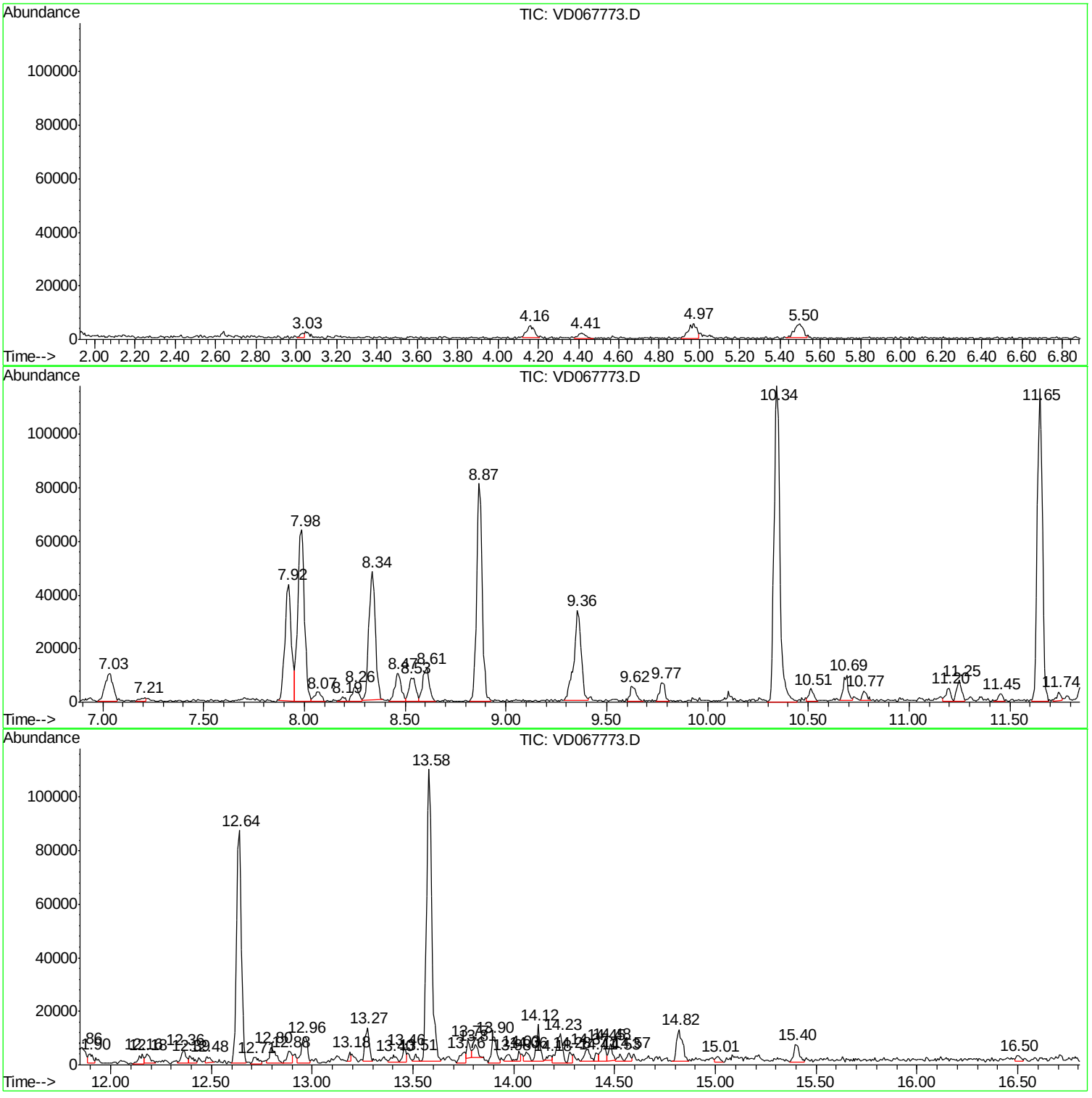
Sample : L4858-02
Misc : 5.74G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** PHC-340EM-013

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112320S.M
Quant Title : SW846 8260

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



# Library Search Compound Report

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Acq On : 24 Nov 2020 17:37
Operator : VA/SY
Sample : L4858-02
Misc : 5.74G/5.00ml/MSVOA D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** PHC-340EM-013

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112320S.M
Quant Title : SW846 8260

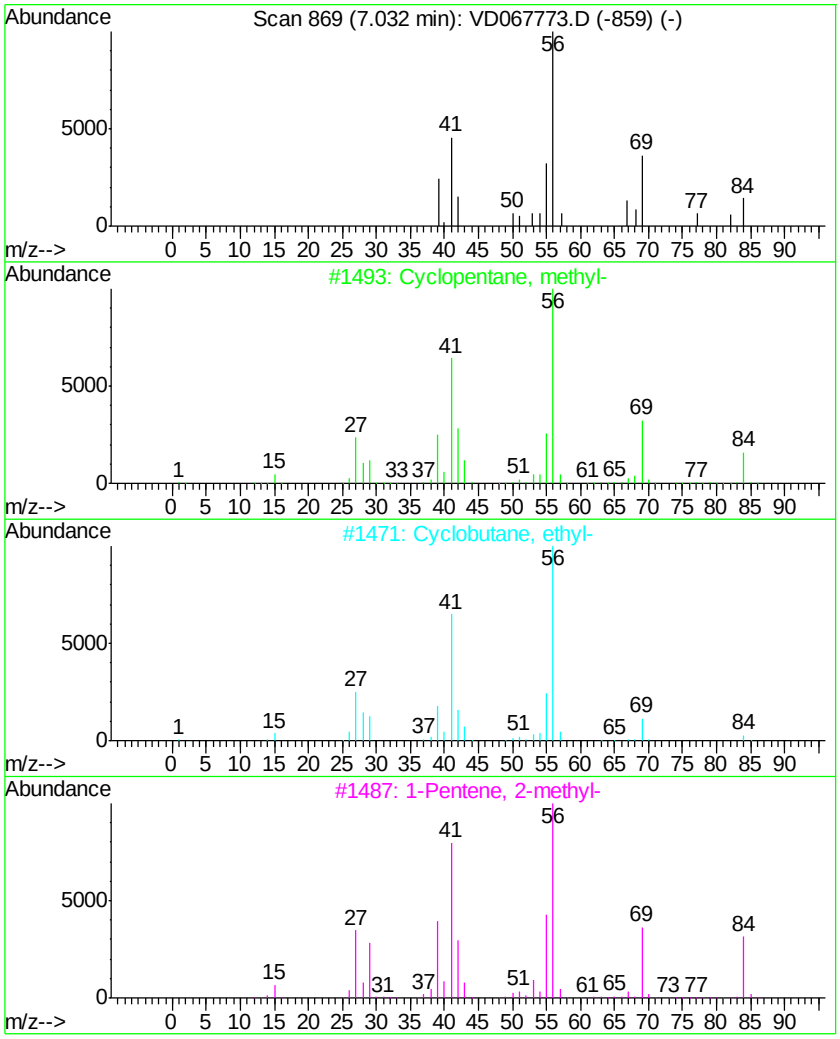
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

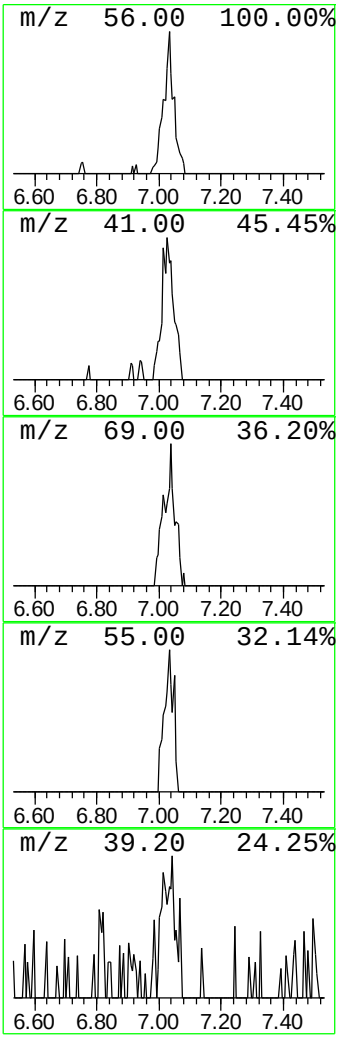
**********

Peak Number 3 Cyclopentane, methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.03 | 9.80 ug/l | 29164 | Pentafluorobenzene | 7.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 80 |
| 2 | Cyclobutane, ethyl- | 84 | C6H12 | 004806-61-5 | 72 |
| 3 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 64 |
| 4 | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4 | 004076-36-2 | 59 |
| 5 | Cyclobutane, butyl- | 112 | C8H16 | 013152-44-8 | 42 |



Library Search Compound Report

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Data File : VD067773.D
Acq On : 24 Nov 2020 17:37
Operator : VA/SY
Sample : L4858-02
Misc : 5.74G/5.00ml/MSVOA D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** PHC-340EM-013

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112320S.M
Quant Title : SW846 8260

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

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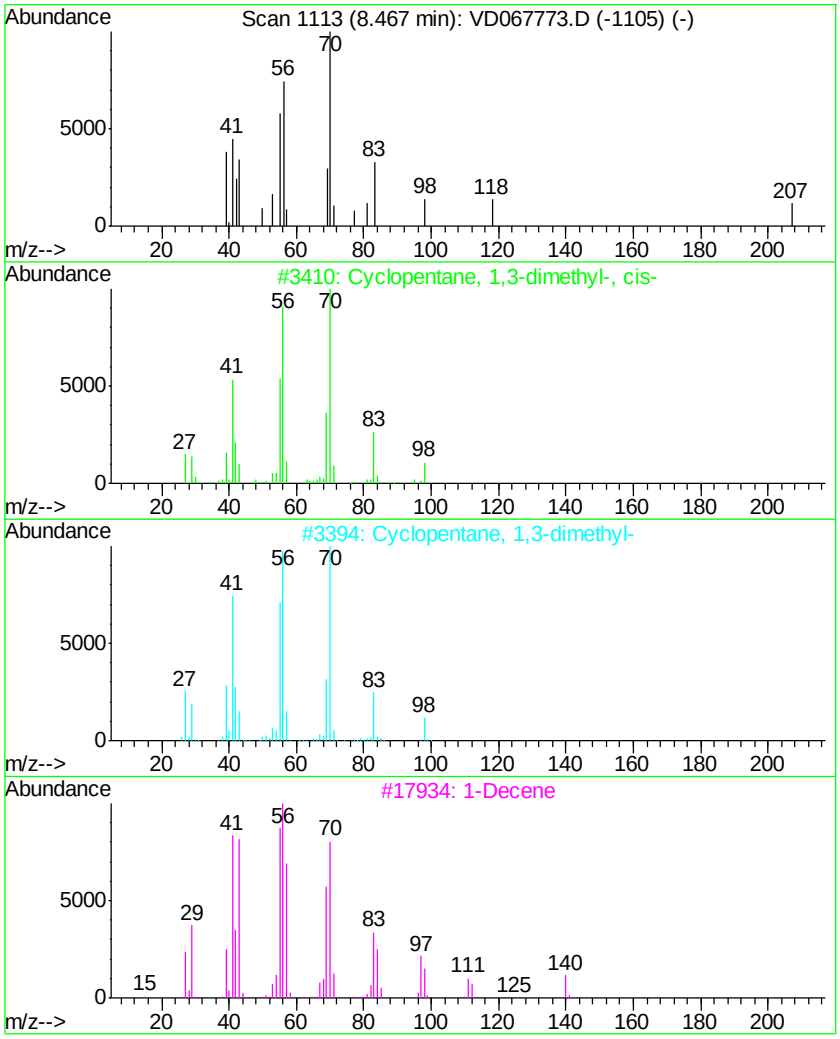
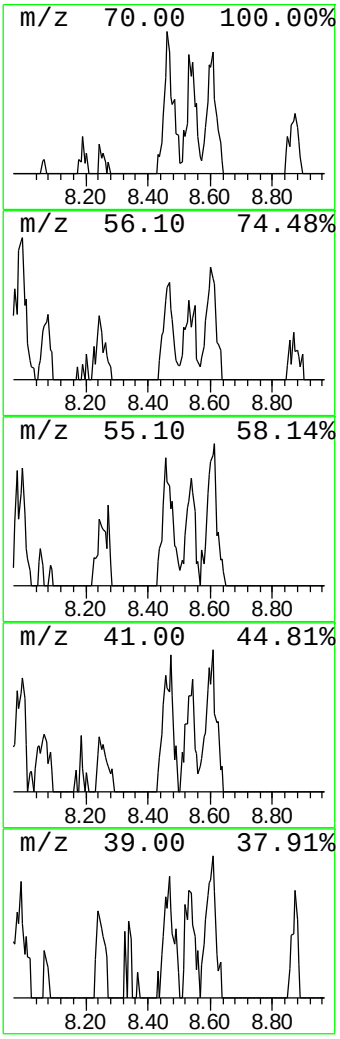
Peak Number 4 Cyclopentane, 1,3-dimethyl-... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.47 | 7.29 ug/l | 23098 | 1,4-Difluorobenzene | 8.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,3-dimethyl-, cis- | 98 | C7H14 | 002532-58-3 | 80 |
| 2 | Cyclopentane, 1,3-dimethyl- | 98 | C7H14 | 002453-00-1 | 72 |
| 3 | 1-Decene | 140 | C10H20 | 000872-05-9 | 53 |
| 4 | Cyclopentane, 1,2-dimethyl-, cis- | 98 | C7H14 | 001192-18-3 | 52 |
| 5 | Cyclopentane, 1,3-dimethyl-, trans- | 98 | C7H14 | 001759-58-6 | 52 |



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Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112420\
Data File : VD067773.D
Acq On : 24 Nov 2020 17:37
Operator : VA/SY
Sample : L4858-02
Misc : 5.74G/5.00ml/MSVOA D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** PHC-340EM-013

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112320S.M
Quant Title : SW846 8260

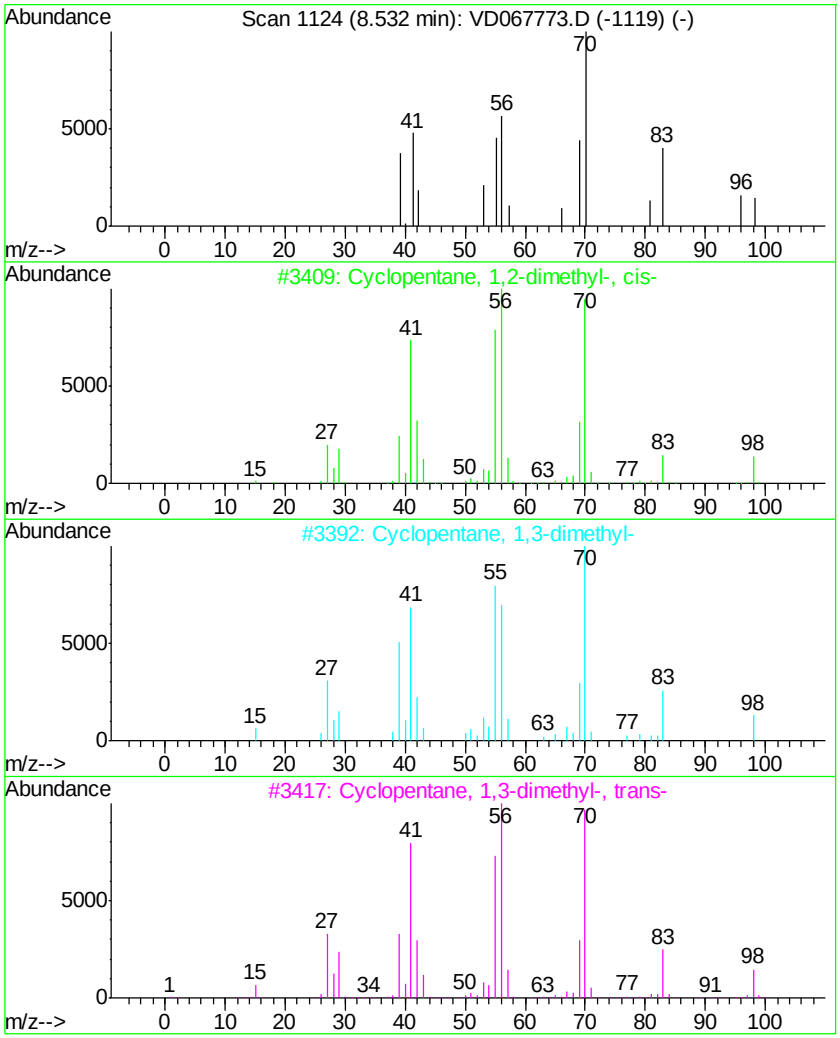
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

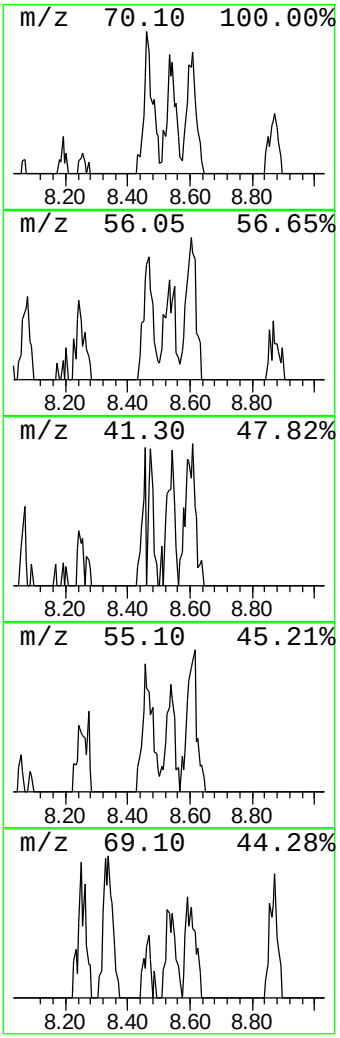
**********

Peak Number 5 unknown8.53 Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.53 | 6.36 ug/l | 20162 | 1,4-Difluorobenzene | 8.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,2-dimethyl-, cis- | 98 | C7H14 | 001192-18-3 | 43 |
| 2 | Cyclopentane, 1,3-dimethyl- | 98 | C7H14 | 002453-00-1 | 43 |
| 3 | Cyclopentane, 1,3-dimethyl-, trans- | 98 | C7H14 | 001759-58-6 | 43 |
| 4 | Cyclopentane, 1,3-dimethyl-, cis- | 98 | C7H14 | 002532-58-3 | 43 |
| 5 | 2-Cyclohexen-1-ol | 98 | C6H10O | 000822-67-3 | 38 |



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Operator : VA/SY
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ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** PHC-340EM-013

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112320S.M
Quant Title : SW846 8260

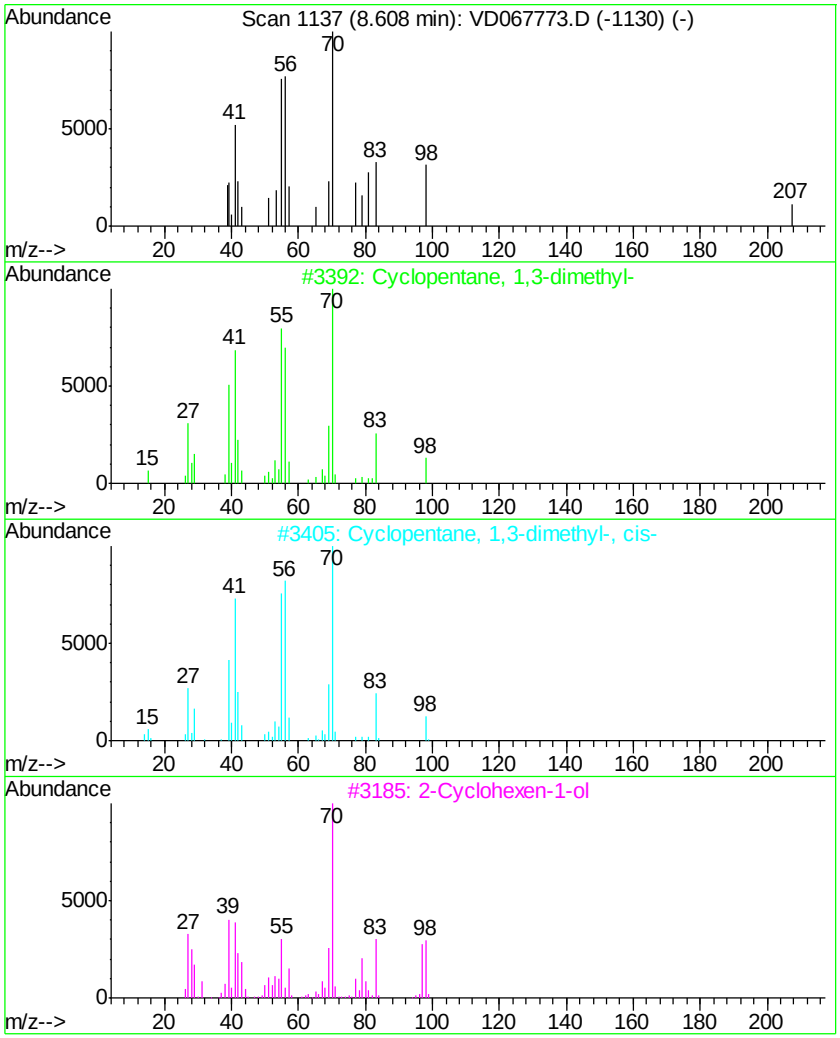
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

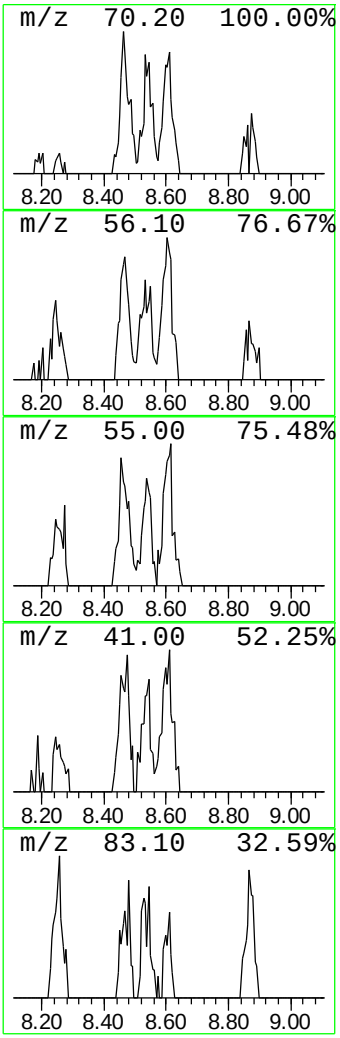
**********

Peak Number 6 Cyclopentane, 1,3-dimethyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.61 | 8.69 ug/l | 27543 | 1,4-Difluorobenzene | 8.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,3-dimethyl- | 98 | C7H14 | 002453-00-1 | 72 |
| 2 | Cyclopentane, 1,3-dimethyl-, cis- | 98 | C7H14 | 002532-58-3 | 64 |
| 3 | 2-Cyclohexen-1-ol | 98 | C6H10O | 000822-67-3 | 53 |
| 4 | Cyclopentane, 1,2-dimethyl-, cis- | 98 | C7H14 | 001192-18-3 | 53 |
| 5 | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16 | 002613-69-6 | 50 |



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Data File : VD067773.D
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Operator : VA/SY
Sample : L4858-02
Misc : 5.74G/5.00ml/MSVOA D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** PHC-340EM-013

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112320S.M
Quant Title : SW846 8260

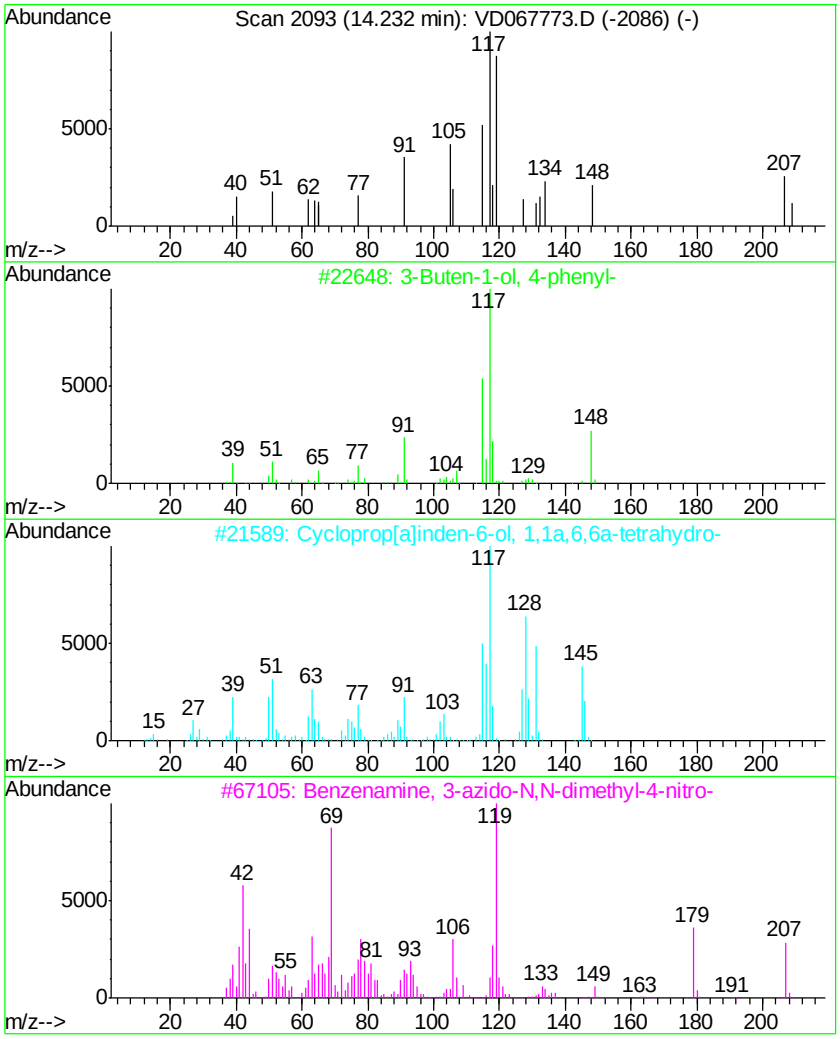
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

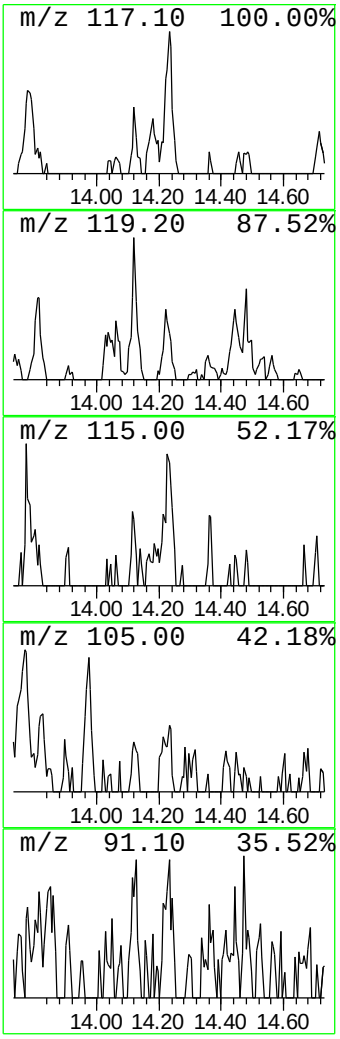
**********

Peak Number 7 unknown14.23 Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.23 | 5.67 ug/l | 21671 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Buten-1-ol, 4-phenyl- | 148 | C10H12O | 000937-58-6 | 38 |
| 2 | Cycloprop[a]inden-6-ol, 1,1a,6,6... | 146 | C10H10O | 022228-27-9 | 32 |
| 3 | Benzenamine, 3-azido-N,N-dimethy... | 207 | C8H9N5O2 | 001437-65-6 | 30 |
| 4 | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12 | 000768-49-0 | 22 |
| 5 | 2,4-Dimethylstyrene | 132 | C10H12 | 002234-20-0 | 22 |



Library Search Compound Report

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Acq On : 24 Nov 2020 17:37
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Sample : L4858-02
Misc : 5.74G/5.00ml/MSVOA D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** PHC-340EM-013

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112320S.M
Quant Title : SW846 8260

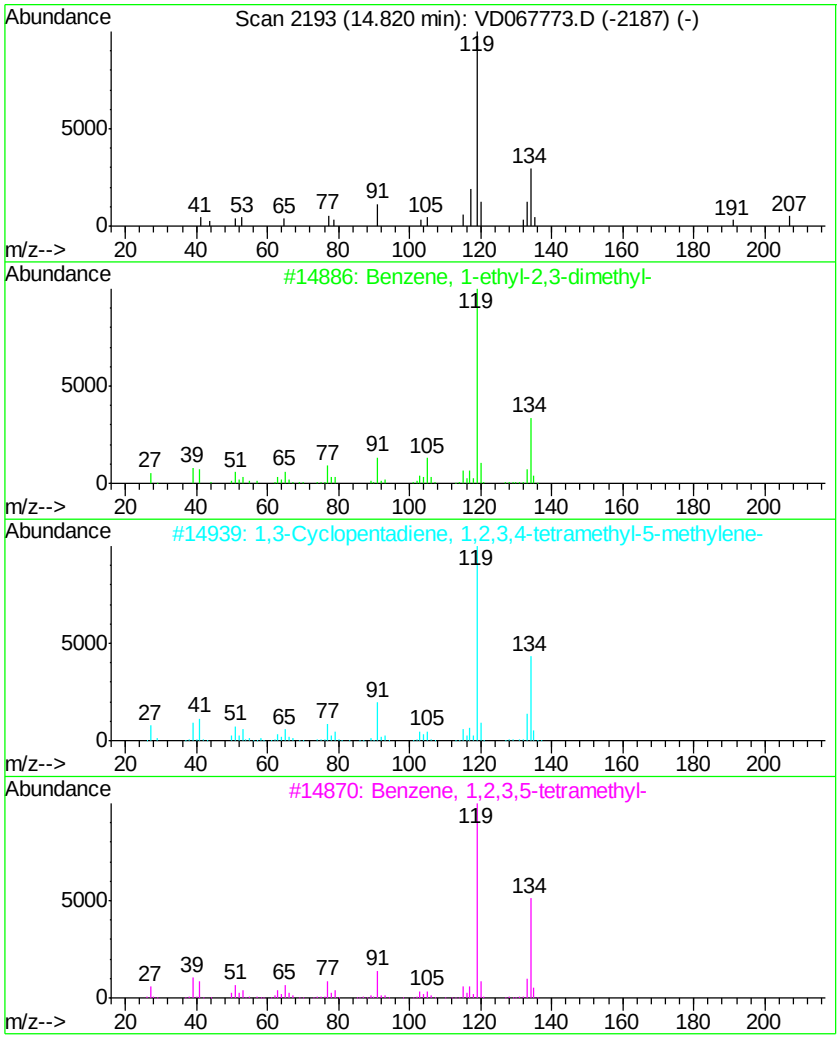
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

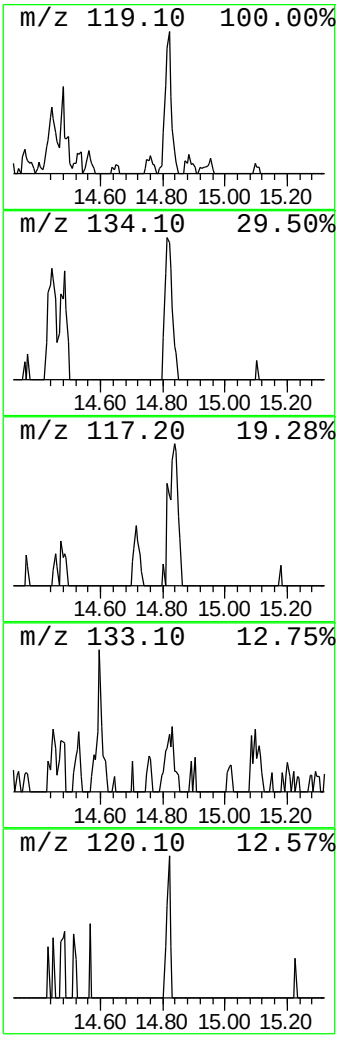
**********

Peak Number 8 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.82 | 6.28 ug/l | 24006 | 1,4-Dichlorobenzene-d4 | 13.58 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 80 |
| 2 | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14 | 076089-59-3 | 80 |
| 3 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 80 |
| 4 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 72 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 72 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_D\DATA\VD112420\
Data File : VD067773.D
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Operator : VA/SY
Sample : L4858-02
Misc : 5.74G/5.00ml/MSVOA_D/SOIL
ALS Vial : 16 Sample Multiplier: 1

**Instrument :** MSVOA_D
**ClientSampleId :** PHC-340EM-013

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_D\METHOD\82D112320S.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 |
| Cyclopentane, met... | 7.03 | 9.8 | ug/l | 29164 | 1 | 7.98 | 148816 | 50.0 |
| Cyclopentane, 1,3... | 8.47 | 7.3 | ug/l | 23098 | 2 | 8.87 | 158481 | 50.0 |
| unknown8.53 | 8.53 | 6.4 | ug/l | 20162 | 2 | 8.87 | 158481 | 50.0 |
| Cyclopentane, 1,3... | 8.61 | 8.7 | ug/l | 27543 | 2 | 8.87 | 158481 | 50.0 |
| unknown14.23 | 14.23 | 5.7 | ug/l | 21671 | 4 | 13.58 | 191138 | 50.0 |
| Benzene, 1-ethyl-... | 14.82 | 6.3 | ug/l | 24006 | 4 | 13.58 | 191138 | 50.0 |