LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092618\
Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

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_W\METHOD\82W092118S.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 | 8.579 | 1089 | 1095 | 1117 | rVB | 873888 | 2391611 | 1.12% | 0.083% |
| 2 | 9.342 | 1204 | 1220 | 1225 | rBV2 | 6199967 | 19320231 | 9.03% | 0.674% |
| 3 | 9.616 | 1253 | 1265 | 1279 | rVB2 | 5051250 | 15394270 | 7.20% | 0.537% |
| 4 | 9.762 | 1279 | 1289 | 1303 | rBV2 | 8361265 | 21176668 | 9.90% | 0.739% |
| 5 | 9.909 | 1303 | 1313 | 1317 | rBV | 7036579 | 15875891 | 7.42% | 0.554% |
| 6 | 10.091 | 1333 | 1343 | 1359 | rBV | 13587885 | 38893063 | 18.18% | 1.357% |
| 7 | 10.244 | 1359 | 1368 | 1369 | rBV | 5502997 | 12325573 | 5.76% | 0.430% |
| 8 | 10.341 | 1376 | 1384 | 1388 | rBV2 | 79576891 | 213922693 | 100.00% | 7.466% |
| 9 | 10.457 | 1398 | 1403 | 1406 | rBV2 | 7078015 | 13406721 | 6.27% | 0.468% |
| 10 | 10.512 | 1406 | 1412 | 1422 | rVB2 | 40772904 | 108994066 | 50.95% | 3.804% |
| 11 | 10.683 | 1434 | 1440 | 1448 | rVB2 | 85561129 | 201444976 | 94.17% | 7.031% |
| 12 | 10.774 | 1448 | 1455 | 1466 | rBV3 | 49068909 | 138119512 | 64.57% | 4.821% |
| 13 | 10.860 | 1466 | 1469 | 1474 | rVB | 10745104 | 17362755 | 8.12% | 0.606% |
| 14 | 10.957 | 1474 | 1485 | 1494 | rBV2 | 48295772 | 108980255 | 50.94% | 3.804% |
| 15 | 11.067 | 1495 | 1503 | 1510 | rBV2 | 38118790 | 84832981 | 39.66% | 2.961% |
| 16 | 11.195 | 1510 | 1524 | 1529 | rBV4 | 61877629 | 192851648 | 90.15% | 6.731% |
| 17 | 11.256 | 1529 | 1534 | 1539 | rVV2 | 66692090 | 130701019 | 61.10% | 4.562% |
| 18 | 11.305 | 1539 | 1542 | 1545 | rVV | 13275697 | 16247957 | 7.60% | 0.567% |
| 19 | 11.353 | 1545 | 1550 | 1555 | rVB3 | 37706322 | 64568041 | 30.18% | 2.254% |
| 20 | 11.396 | 1555 | 1557 | 1561 | rVB | 8339485 | 10700626 | 5.00% | 0.373% |
| 21 | 11.451 | 1561 | 1566 | 1576 | rVB | 38526982 | 75249193 | 35.18% | 2.626% |
| 22 | 11.567 | 1576 | 1585 | 1590 | rBV3 | 4082692 | 10410752 | 4.87% | 0.363% |
| 23 | 11.628 | 1590 | 1595 | 1599 | rBV3 | 1637813 | 3459543 | 1.62% | 0.121% |
| 24 | 11.676 | 1599 | 1603 | 1606 | rBV2 | 2366883 | 3599864 | 1.68% | 0.126% |
| 25 | 11.731 | 1606 | 1612 | 1616 | rBV | 12733454 | 21879988 | 10.23% | 0.764% |
| 26 | 11.780 | 1616 | 1620 | 1623 | rBV | 11902501 | 16755416 | 7.83% | 0.585% |
| 27 | 11.829 | 1623 | 1628 | 1632 | rVB4 | 6383190 | 11123581 | 5.20% | 0.388% |
| 28 | 11.890 | 1632 | 1638 | 1642 | rBV | 33598018 | 66413260 | 31.05% | 2.318% |
| 29 | 11.987 | 1650 | 1654 | 1657 | rBV2 | 6628517 | 12423266 | 5.81% | 0.434% |
| 30 | 12.073 | 1661 | 1668 | 1674 | rVB3 | 11048307 | 31184128 | 14.58% | 1.088% |
| 31 | 12.152 | 1674 | 1681 | 1687 | rBV3 | 38552491 | 87839332 | 41.06% | 3.066% |
| 32 | 12.207 | 1687 | 1690 | 1693 | rBV | 4351966 | 5510869 | 2.58% | 0.192% |
| 33 | 12.268 | 1693 | 1700 | 1705 | rVB2 | 34615511 | 67538620 | 31.57% | 2.357% |
| 34 | 12.353 | 1705 | 1714 | 1716 | rBV3 | 36628895 | 77931566 | 36.43% | 2.720% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092618\
Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

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_W\METHOD\82W092118S.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 12.469 | 1730 | 1733 | 1737 | rVB3 | 9378119 | 13656808 | 6.38% | 0.477% |
| 36 | 12.518 | 1737 | 1741 | 1748 | rVB3 | 12576105 | 25100367 | 11.73% | 0.876% |
| 37 | 12.579 | 1748 | 1751 | 1755 | rVB2 | 3994838 | 5652978 | 2.64% | 0.197% |
| 38 | 12.634 | 1755 | 1760 | 1765 | rVB2 | 7538787 | 13572458 | 6.34% | 0.474% |
| 39 | 12.713 | 1765 | 1773 | 1778 | rBV4 | 13587983 | 36557595 | 17.09% | 1.276% |
| 40 | 12.798 | 1782 | 1787 | 1793 | rVB3 | 31166300 | 61334588 | 28.67% | 2.141% |
| 41 | 12.877 | 1793 | 1800 | 1804 | rBV4 | 11820673 | 28702494 | 13.42% | 1.002% |
| 42 | 12.957 | 1805 | 1813 | 1818 | rBV5 | 20828275 | 55929567 | 26.14% | 1.952% |
| 43 | 13.091 | 1831 | 1835 | 1839 | rBV2 | 11987109 | 18513776 | 8.65% | 0.646% |
| 44 | 13.146 | 1839 | 1844 | 1846 | rBV3 | 5534974 | 10009961 | 4.68% | 0.349% |
| 45 | 13.182 | 1847 | 1850 | 1856 | rVV3 | 8040084 | 16693970 | 7.80% | 0.583% |
| 46 | 13.310 | 1867 | 1871 | 1875 | rBV | 15800309 | 22435160 | 10.49% | 0.783% |
| 47 | 13.365 | 1875 | 1880 | 1888 | rVB4 | 20112765 | 39887078 | 18.65% | 1.392% |
| 48 | 13.463 | 1888 | 1896 | 1900 | rBV3 | 24763027 | 53503034 | 25.01% | 1.867% |
| 49 | 13.505 | 1900 | 1903 | 1908 | rVB4 | 11910895 | 17642584 | 8.25% | 0.616% |
| 50 | 13.609 | 1917 | 1920 | 1923 | rVB3 | 6523656 | 8738275 | 4.08% | 0.305% |
| 51 | 13.719 | 1932 | 1938 | 1942 | rBV4 | 14405301 | 28764971 | 13.45% | 1.004% |
| 52 | 13.896 | 1960 | 1967 | 1971 | rBV4 | 34590764 | 72695232 | 33.98% | 2.537% |
| 53 | 13.938 | 1971 | 1974 | 1979 | rVB4 | 18276316 | 27615322 | 12.91% | 0.964% |
| 54 | 13.999 | 1980 | 1984 | 1988 | rBV3 | 23019554 | 38990538 | 18.23% | 1.361% |
| 55 | 14.213 | 2015 | 2019 | 2024 | rBV3 | 16662746 | 26437854 | 12.36% | 0.923% |
| 56 | 14.286 | 2027 | 2031 | 2037 | rVB3 | 18024508 | 33007046 | 15.43% | 1.152% |
| 57 | 14.341 | 2037 | 2040 | 2044 | rBV5 | 4972480 | 8108205 | 3.79% | 0.283% |
| 58 | 14.408 | 2045 | 2051 | 2056 | rBV2 | 46194286 | 82285392 | 38.47% | 2.872% |
| 59 | 14.511 | 2064 | 2068 | 2071 | rBV3 | 7306206 | 10359984 | 4.84% | 0.362% |
| 60 | 14.572 | 2073 | 2078 | 2082 | rVV4 | 25765641 | 44289358 | 20.70% | 1.546% |
| 61 | 14.621 | 2083 | 2086 | 2093 | rVB5 | 7432943 | 12284683 | 5.74% | 0.429% |
| 62 | 14.713 | 2099 | 2101 | 2105 | rVV2 | 4367342 | 5541960 | 2.59% | 0.193% |
| 63 | 14.755 | 2105 | 2108 | 2112 | rVV5 | 5425951 | 9134610 | 4.27% | 0.319% |
| 64 | 14.810 | 2113 | 2117 | 2123 | rVV4 | 17327959 | 34039787 | 15.91% | 1.188% |
| 65 | 14.871 | 2123 | 2127 | 2132 | rVB3 | 13404404 | 22201378 | 10.38% | 0.775% |
| 66 | 14.987 | 2143 | 2146 | 2149 | rVB2 | 3929502 | 4550632 | 2.13% | 0.159% |
| 67 | 15.188 | 2175 | 2179 | 2184 | rVB5 | 4592723 | 8549279 | 4.00% | 0.298% |
| 68 | 15.340 | 2199 | 2204 | 2210 | rVB | 20942069 | 34152291 | 15.96% | 1.192% |
| 69 | 15.414 | 2211 | 2216 | 2222 | rBV6 | 3242335 | 8415645 | 3.93% | 0.294% |
| 70 | 15.749 | 2267 | 2271 | 2279 | rVB7 | 1993891 | 4666637 | 2.18% | 0.163% |
| 71 | 16.639 | 2413 | 2417 | 2432 | rVB9 | 699206 | 2367962 | 1.11% | 0.083% |

LSC Area Percent Report

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Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

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_W\METHOD\82W092118S.M
Title : SW846 8260

Sum of corrected areas: 2865219394

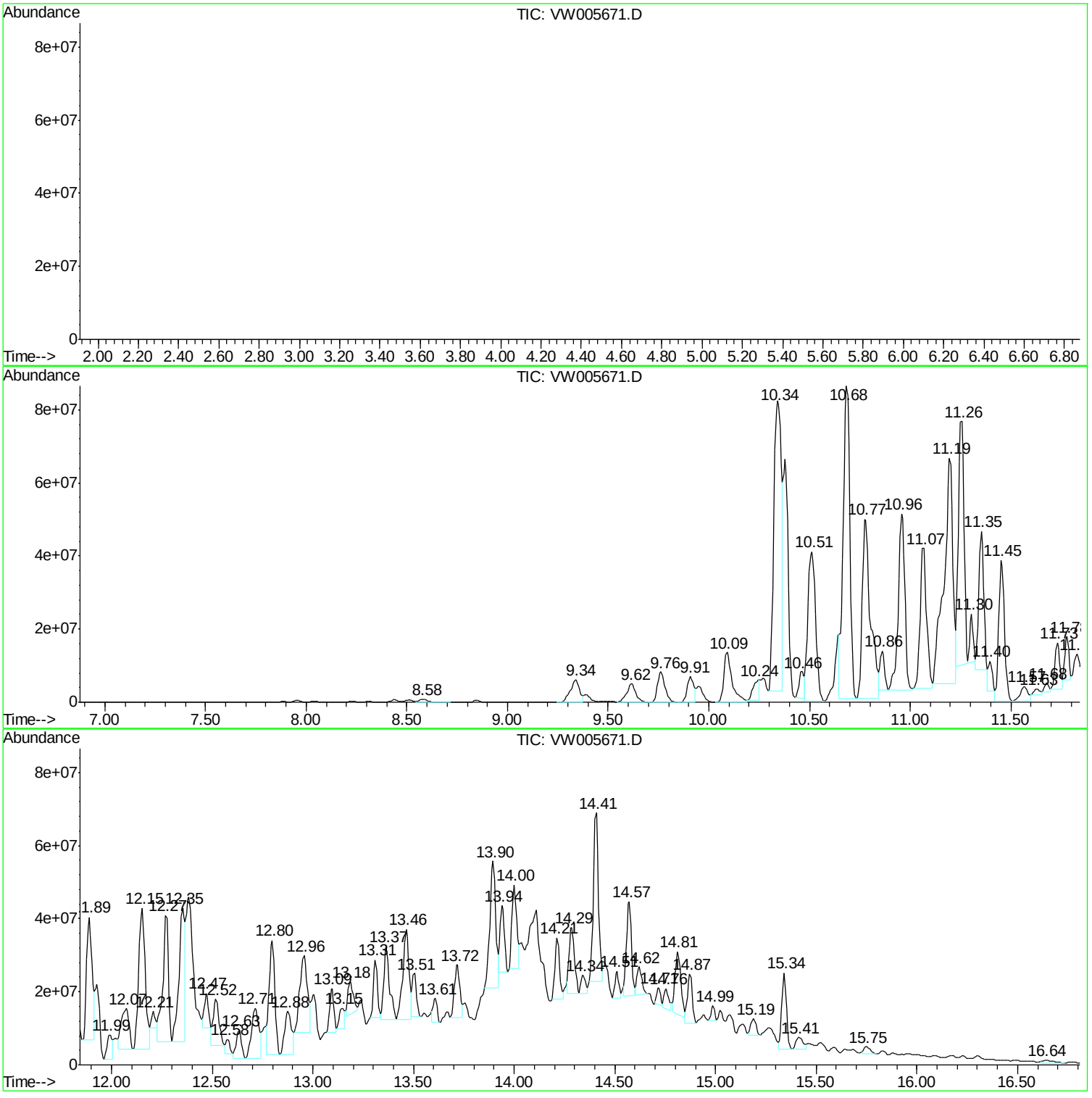
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092618\
Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.M
Quant Title : SW846 8260

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



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW092618\
Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA_W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.M
Quant Title : SW846 8260

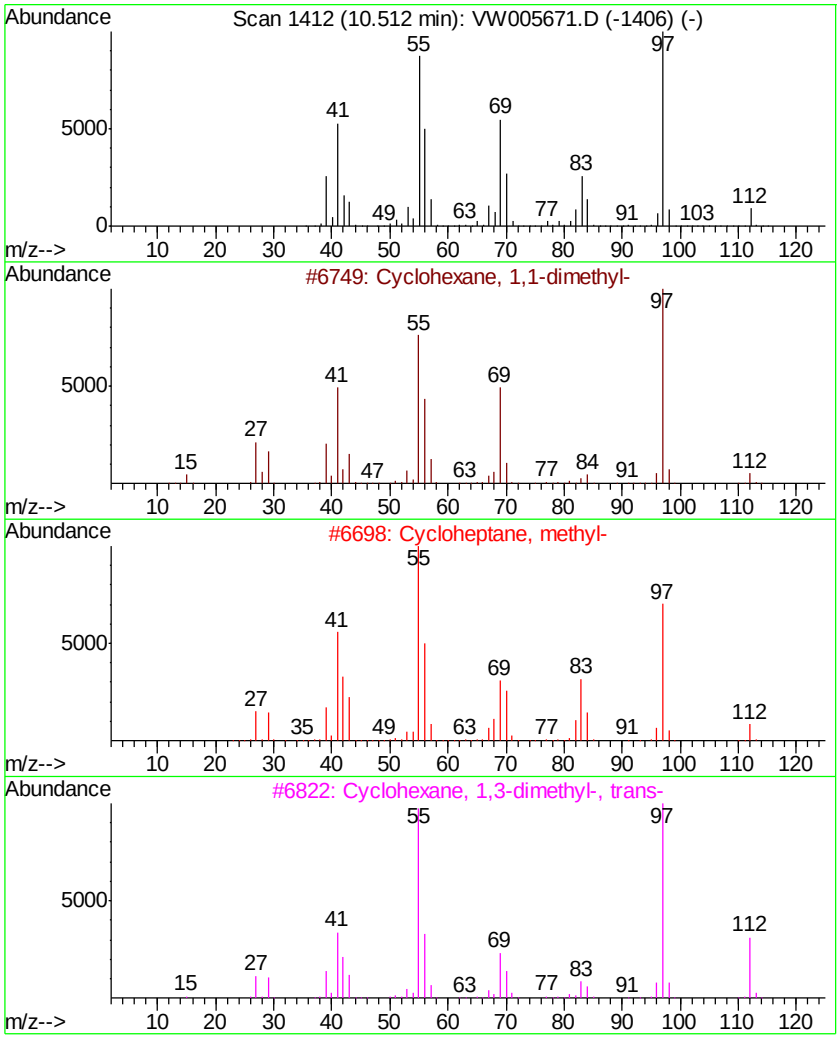
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

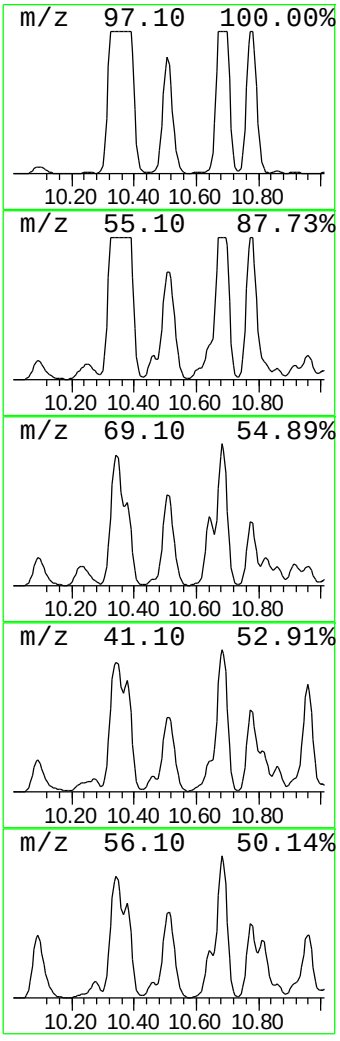
**********

Peak Number 1 Cyclohexane, 1,1-dimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.51 | 1575.27 ug/l | 108994000 | Chlorobenzene-d5 | 11.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,1-dimethyl- | 112 | C8H16 | 000590-66-9 | 81 |
| 2 | Cycloheptane, methyl- | 112 | C8H16 | 004126-78-7 | 74 |
| 3 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 72 |
| 4 | 2,4-Dimethyl-1,5-diazabicyclo[3.... | 112 | C6H12N2 | 1000283-20-9 | 58 |
| 5 | 1H-Pyrazol-4-amine, 3-methyl- | 97 | C4H7N3 | 1000338-28-2 | 52 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW092618\
Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA_W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.M
Quant Title : SW846 8260

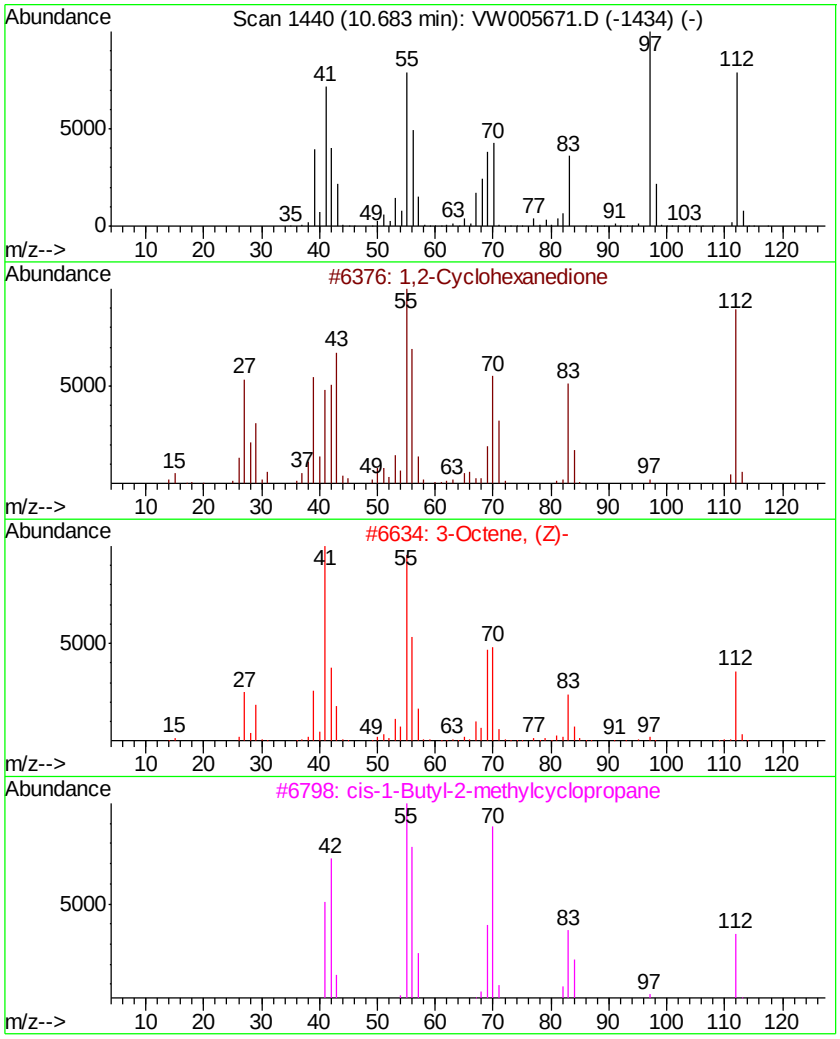
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

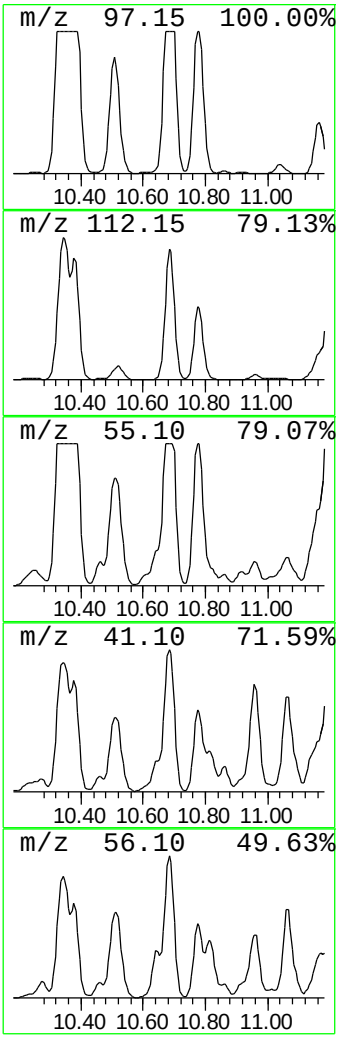
**********

Peak Number 2 1,2-Cyclohexanedione Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.68 | 2911.44 ug/l | 201445000 | Chlorobenzene-d5 | 11.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,2-Cyclohexanedione | 112 | C6H8O2 | 000765-87-7 | 70 |
| 2 | 3-Octene, (Z)- | 112 | C8H16 | 014850-22-7 | 55 |
| 3 | cis-1-Butyl-2-methylcyclopropane | 112 | C8H16 | 038851-69-3 | 52 |
| 4 | 4-Octene, (Z)- | 112 | C8H16 | 007642-15-1 | 50 |
| 5 | 2-Octene, (E)- | 112 | C8H16 | 013389-42-9 | 49 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092618\
Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.M
Quant Title : SW846 8260

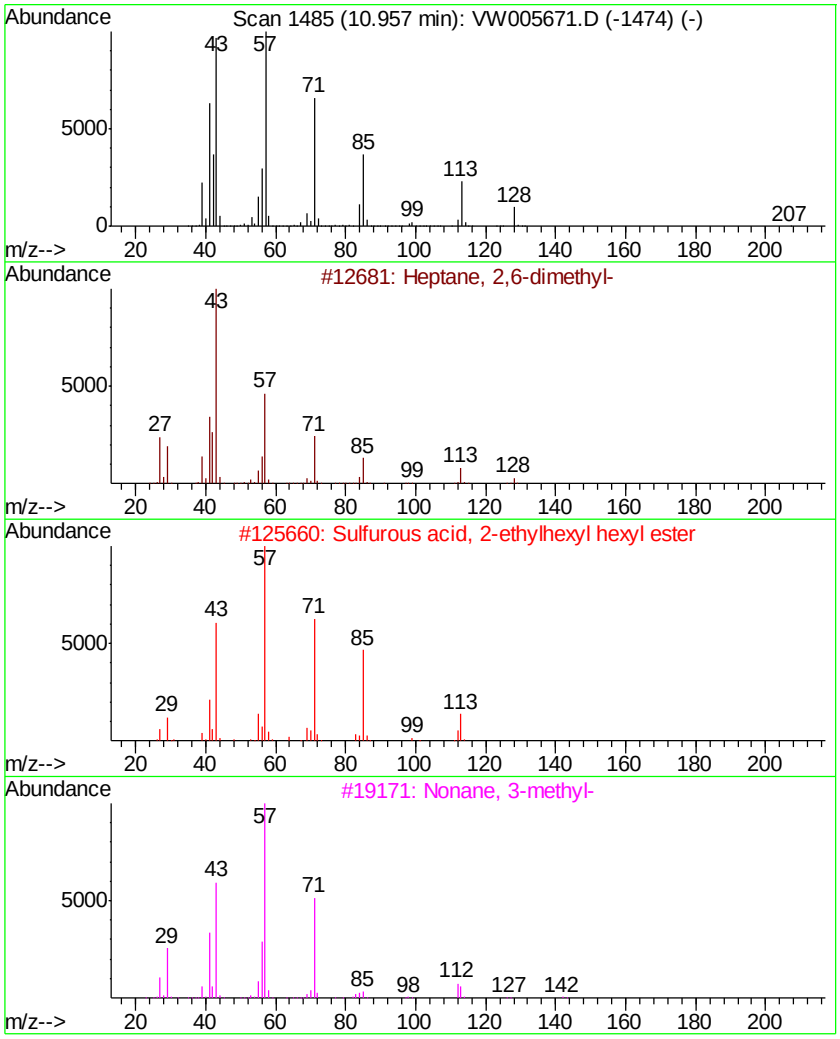
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

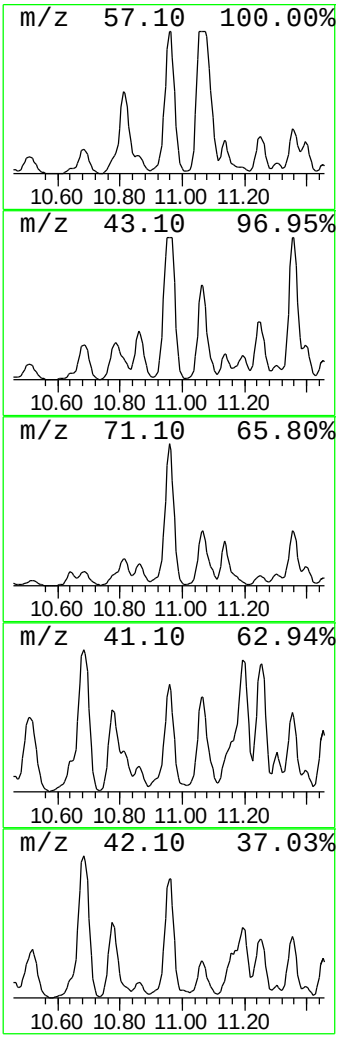
**********

Peak Number 4 Heptane, 2,6-dimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.96 | 1575.07 ug/l | 108980000 | Chlorobenzene-d5 | 11.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,6-dimethyl- | 128 | C9H20 | 001072-05-5 | 87 |
| 2 | Sulfurous acid, 2-ethylhexyl hex... | 278 | C14H30O3S | 1000309-20-2 | 53 |
| 3 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 50 |
| 4 | Undecane, 3,7-dimethyl- | 184 | C13H28 | 017301-29-0 | 47 |
| 5 | Oxirane, pentyl- | 114 | C7H14O | 005063-65-0 | 46 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092618\
Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.M
Quant Title : SW846 8260

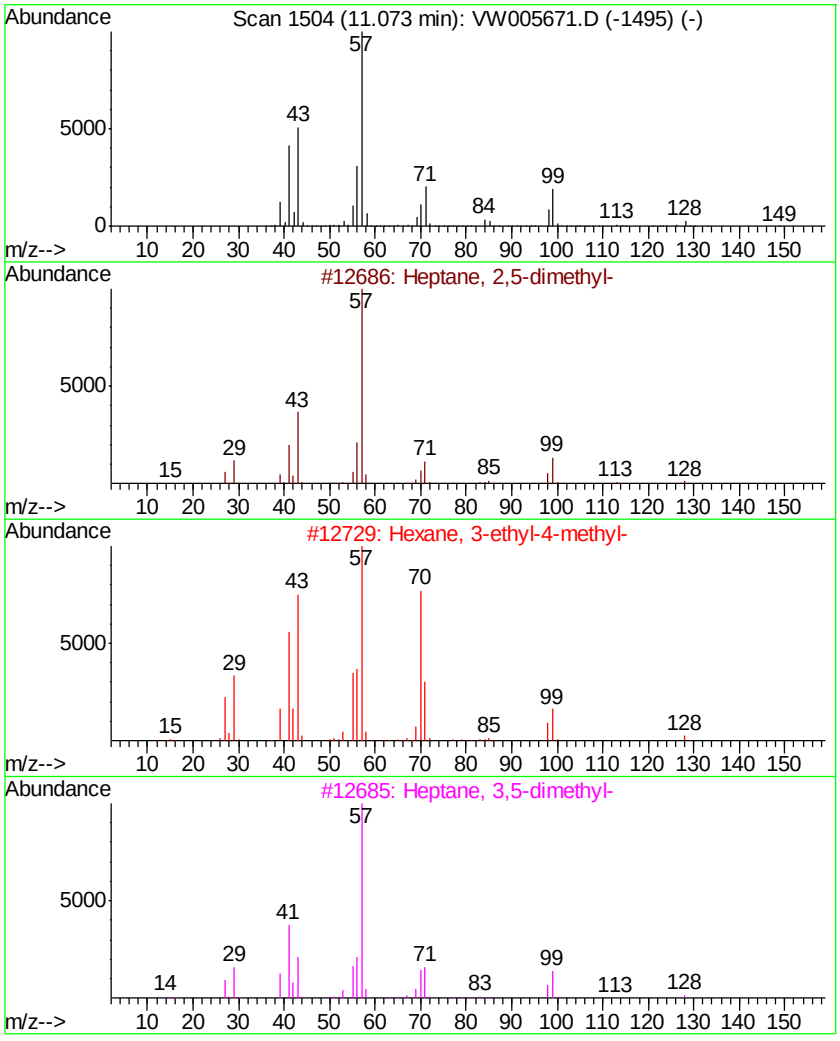
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

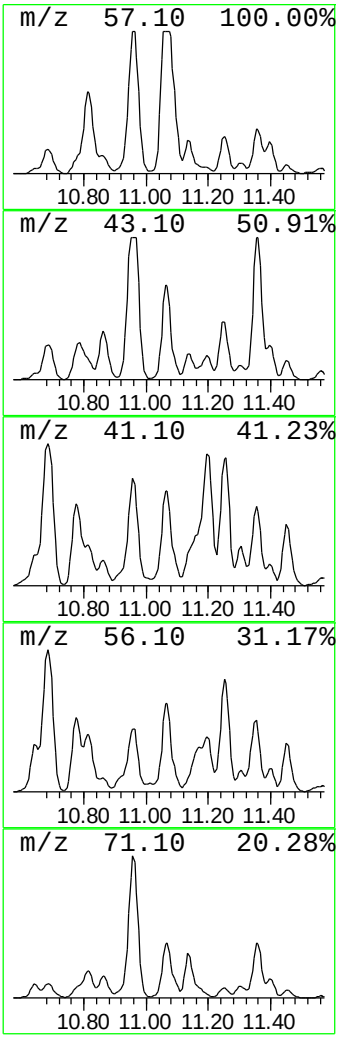
**********

Peak Number 5 Heptane, 2,5-dimethyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.07 | 1226.07 ug/l | 84833000 | Chlorobenzene-d5 | 11.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 81 |
| 2 | Hexane, 3-ethyl-4-methyl- | 128 | C9H20 | 003074-77-9 | 64 |
| 3 | Heptane, 3,5-dimethyl- | 128 | C9H20 | 000926-82-9 | 52 |
| 4 | Hexane, 2,2,5,5-tetramethyl- | 142 | C10H22 | 001071-81-4 | 50 |
| 5 | Octane, 3-methyl- | 128 | C9H20 | 002216-33-3 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092618\
Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.M
Quant Title : SW846 8260

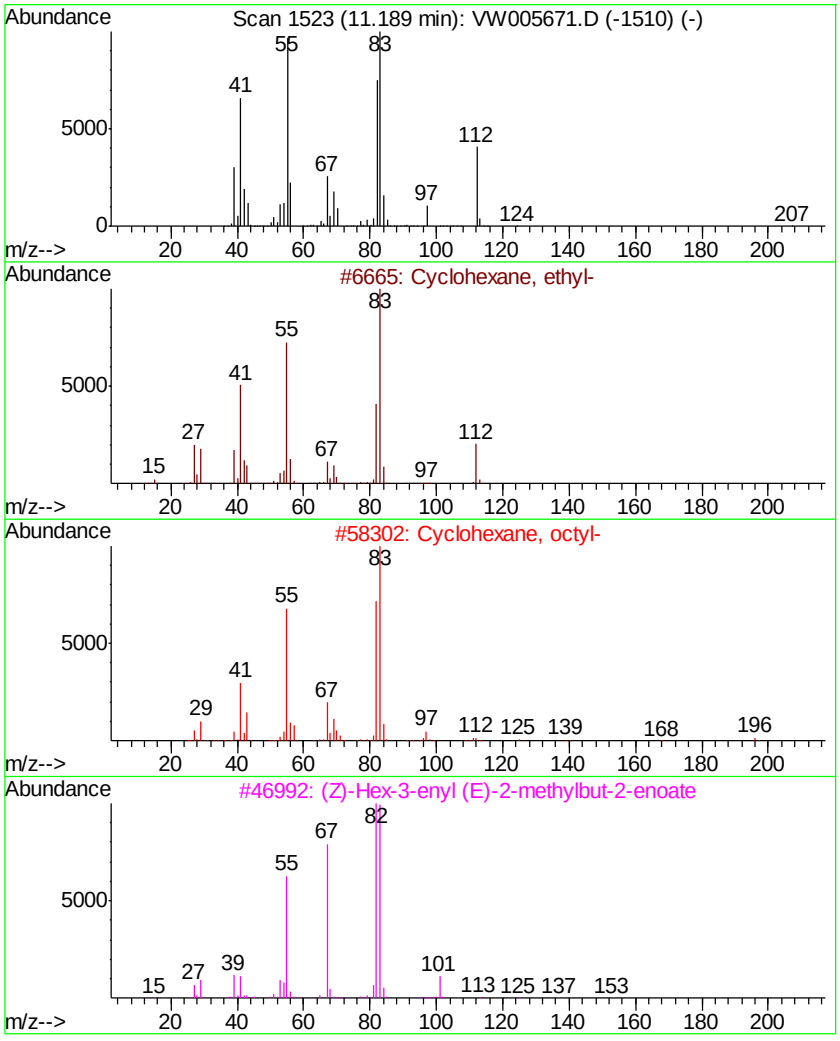
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

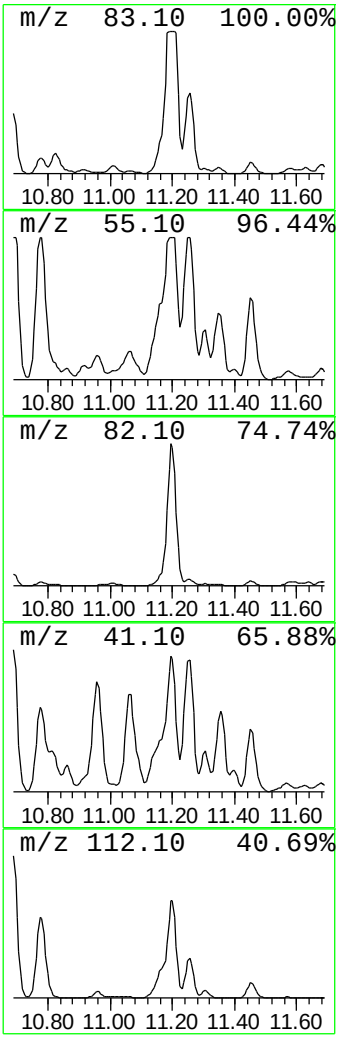
**********

Peak Number 6 Cyclohexane, ethyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.19 | 2787.24 ug/l | 192852000 | Chlorobenzene-d5 | 11.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 64 |
| 2 | Cyclohexane, octyl- | 196 | C14H28 | 001795-15-9 | 59 |
| 3 | (Z)-Hex-3-enyl (E)-2-methylbut-2... | 182 | C11H18O2 | 1000373-73-0 | 50 |
| 4 | 3-Ethyl-2-hexene | 112 | C8H16 | 000620-00-8 | 47 |
| 5 | 3-Ethyl-3-hexene | 112 | C8H16 | 016789-51-8 | 46 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092618\
Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.M
Quant Title : SW846 8260

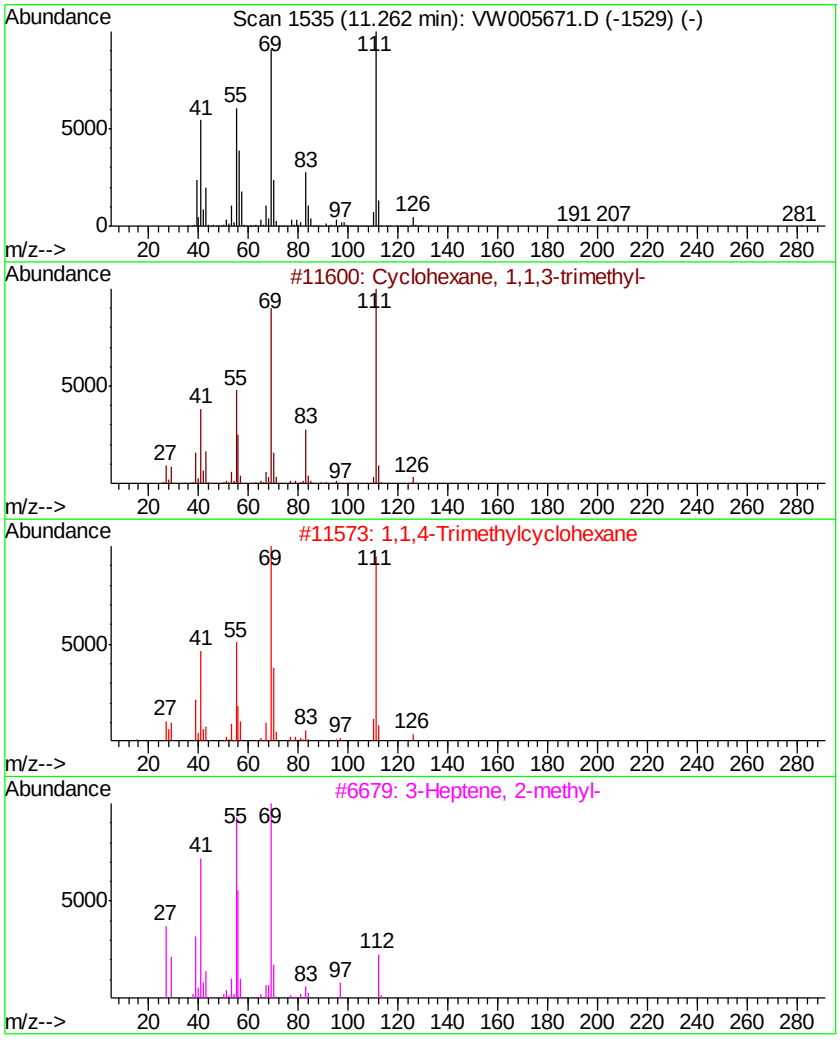
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

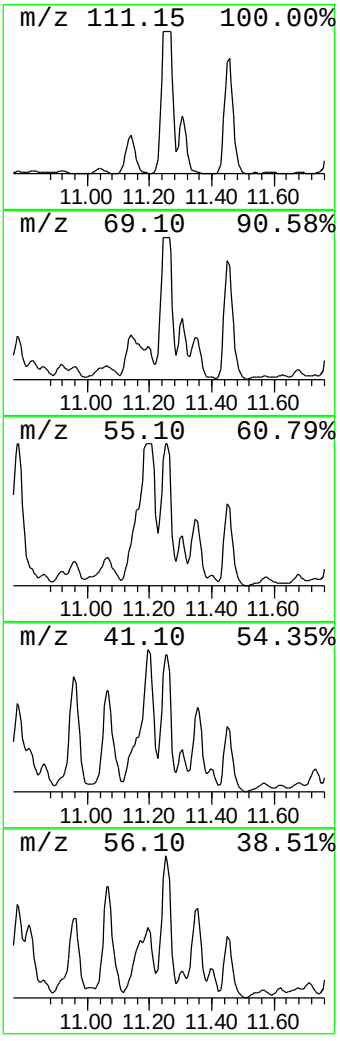
**********

Peak Number 7 Cyclohexane, 1,1,3-trimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.26 | 1888.99 ug/l | 130701000 | Chlorobenzene-d5 | 11.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 80 |
| 2 | 1,1,4-Trimethylcyclohexane | 126 | C9H18 | 007094-27-1 | 58 |
| 3 | 3-Heptene, 2-methyl- | 112 | C8H16 | 017618-76-7 | 43 |
| 4 | 3-Heptene, 2-methyl-, (E)- | 112 | C8H16 | 000692-96-6 | 43 |
| 5 | 3-Hexene, 2,5-dimethyl- | 112 | C8H16 | 015910-22-2 | 43 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092618\
Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.M
Quant Title : SW846 8260

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

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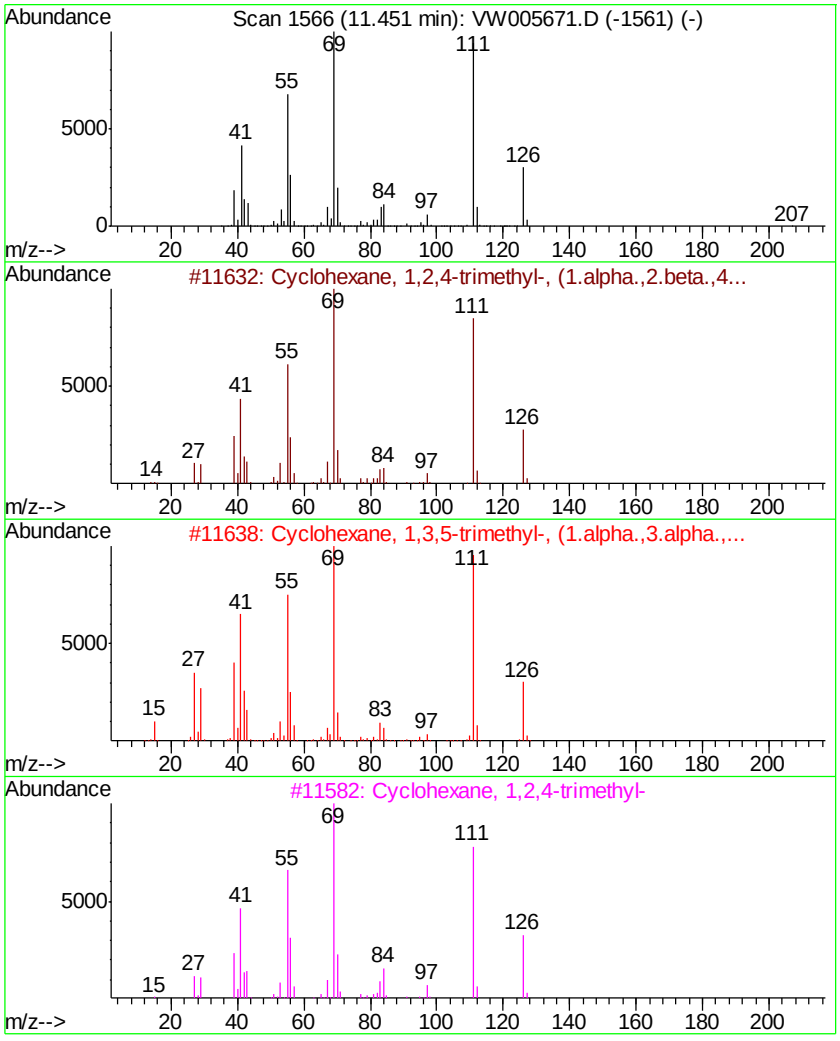
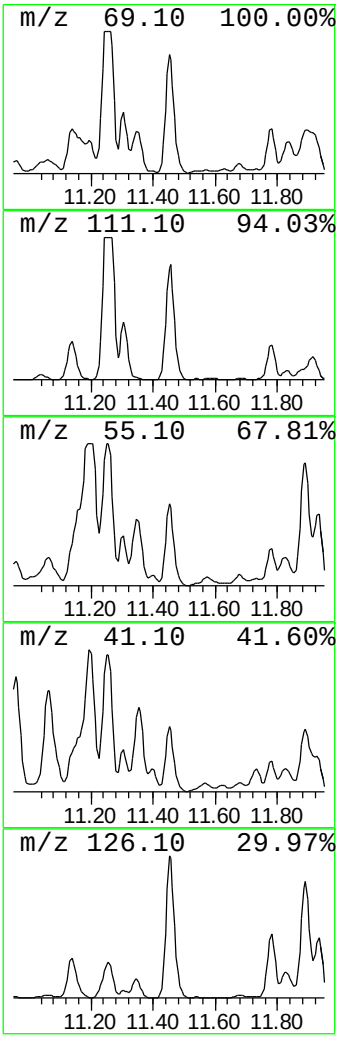
Peak Number 8 Cyclohexane, 1,2,4-trimethy... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.45 | 1087.56 ug/l | 75249200 | Chlorobenzene-d5 | 11.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18 | 007667-60-9 | 97 |
| 2 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-26-2 | 94 |
| 3 | Cyclohexane, 1,2,4-trimethyl- | 126 | C9H18 | 002234-75-5 | 93 |
| 4 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-27-3 | 87 |
| 5 | Cyclohexane, 1,1,2-trimethyl- | 126 | C9H18 | 007094-26-0 | 83 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092618\
Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.M
Quant Title : SW846 8260

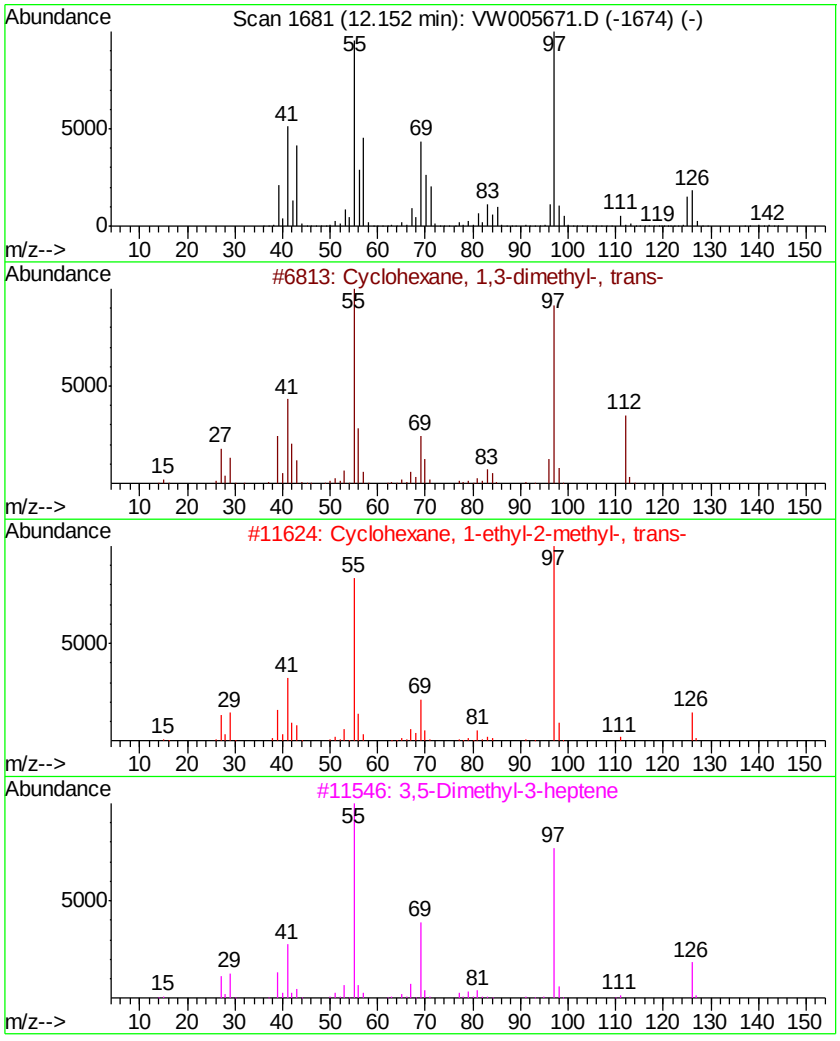
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

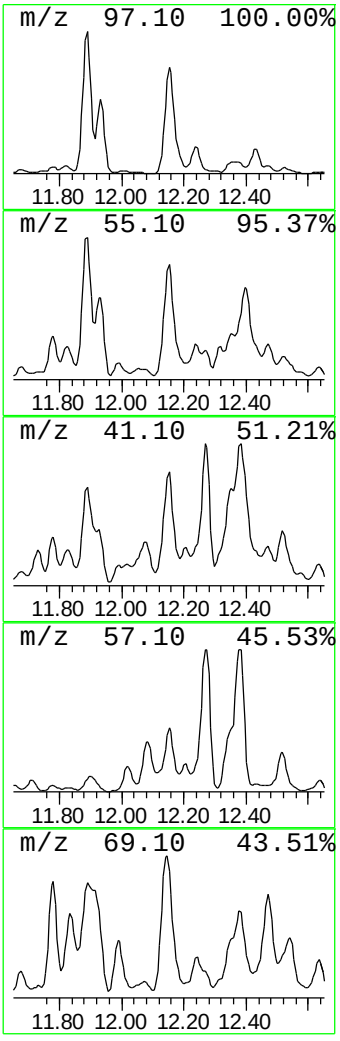
**********

Peak Number 9 Cyclohexane, 1,3-dimethyl-,... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.15 | 1269.52 ug/l | 87839300 | Chlorobenzene-d5 | 11.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 58 |
| 2 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-78-8 | 58 |
| 3 | 3,5-Dimethyl-3-heptene | 126 | C9H18 | 059643-68-4 | 53 |
| 4 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 006236-88-0 | 52 |
| 5 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 52 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092618\
Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.M
Quant Title : SW846 8260

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

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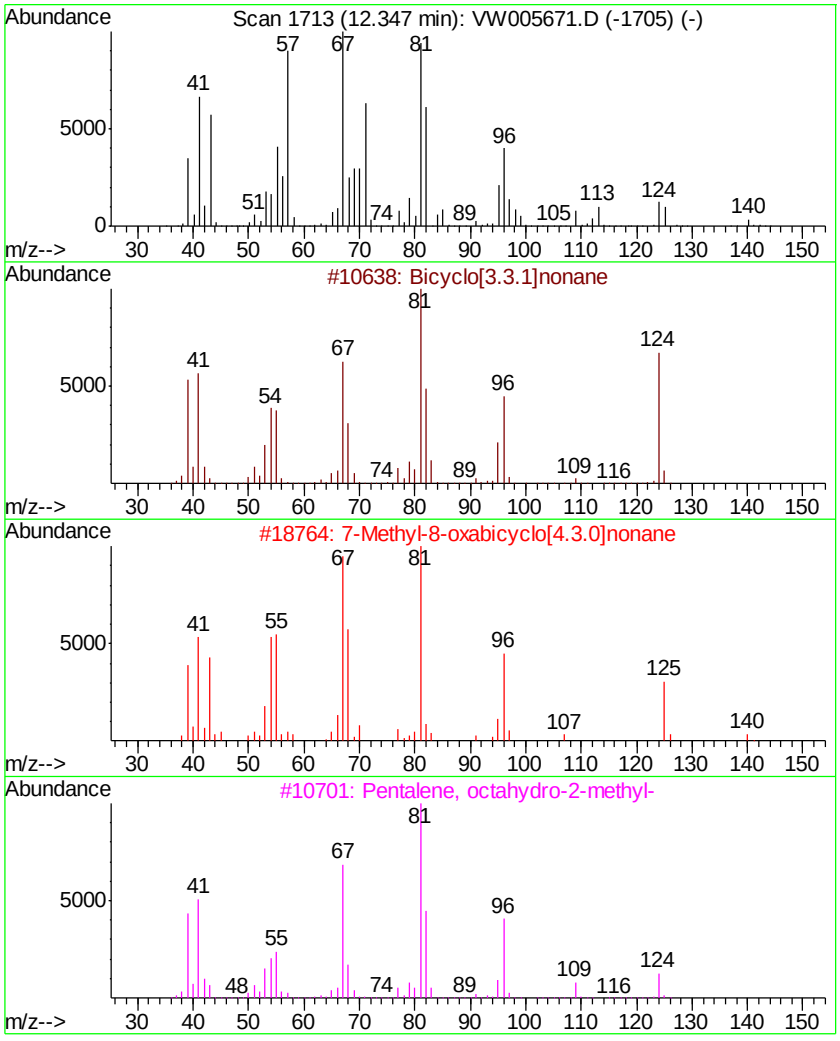
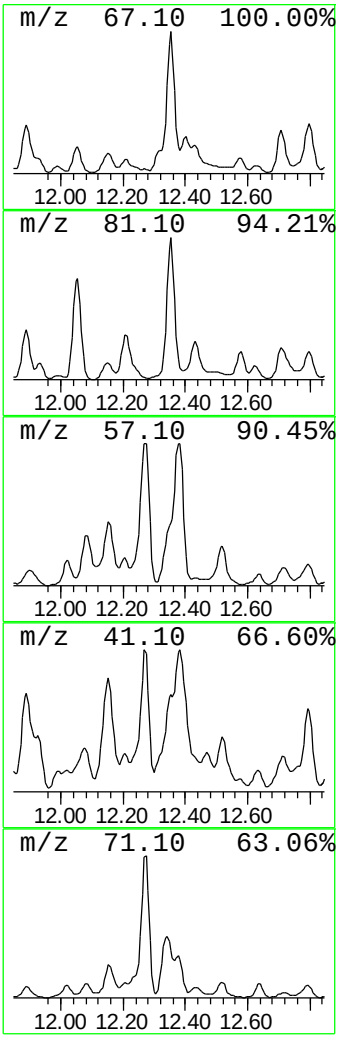
Peak Number 10 Bicyclo[3.3.1]nonane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.35 | 1126.33 ug/l | 77931600 | Chlorobenzene-d5 | 11.64 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[3.3.1]nonane | 124 | C9H16 | 000280-65-9 | 53 |
| 2 | 7-Methyl-8-oxabicyclo[4.3.0]nonane | 140 | C9H16O | 1000216-87-6 | 53 |
| 3 | Pentalene, octahydro-2-methyl- | 124 | C9H16 | 003868-64-2 | 49 |
| 4 | 1-Octadecyne | 250 | C18H34 | 000629-89-0 | 49 |
| 5 | Cyclohexane, methylene- | 96 | C7H12 | 001192-37-6 | 49 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW092618\
Data File : VW005671.D
Acq On : 26 Sep 2018 23:17
Operator : VA/AP
Sample : J5081-20
Misc : 6.01G/5ML/MSVOA_W/SOIL
ALS Vial : 18 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** TP-2-D

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092118S.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 |
| Cyclohexane, 1,1-... | 10.51 | 1575.3 | ug/l | 108994000 | 3 | 11.64 | 3459540 | 50.0 |
| 1,2-Cyclohexanedione | 10.68 | 2911.4 | ug/l | 201445000 | 3 | 11.64 | 3459540 | 50.0 |
| Heptane, 2,6-dime... | 10.96 | 1575.1 | ug/l | 108980000 | 3 | 11.64 | 3459540 | 50.0 |
| Heptane, 2,5-dime... | 11.07 | 1226.1 | ug/l | 84833000 | 3 | 11.64 | 3459540 | 50.0 |
| Cyclohexane, ethyl- | 11.19 | 2787.2 | ug/l | 192852000 | 3 | 11.64 | 3459540 | 50.0 |
| Cyclohexane, 1,1,... | 11.26 | 1889.0 | ug/l | 130701000 | 3 | 11.64 | 3459540 | 50.0 |
| Cyclohexane, 1,2,... | 11.45 | 1087.6 | ug/l | 75249200 | 3 | 11.64 | 3459540 | 50.0 |
| Cyclohexane, 1,3-... | 12.15 | 1269.5 | ug/l | 87839300 | 3 | 11.64 | 3459540 | 50.0 |
| Bicyclo[3.3.1]nonane | 12.35 | 1126.3 | ug/l | 77931600 | 3 | 11.64 | 3459540 | 50.0 |