LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Integration Parameters: LSCINT.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_W\Method\SFAMWLM042921SMA.M
Title : SFAM01.0

Signal : TIC: VW018905.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.989 | 10 | 14 | 22 | rVB | 13713 | 28426 | 0.03% | 0.013% |
| 2 | 2.154 | 36 | 41 | 42 | rBV | 11042 | 13906 | 0.01% | 0.006% |
| 3 | 2.227 | 42 | 53 | 56 | rBV | 38664 | 141007 | 0.13% | 0.065% |
| 4 | 2.355 | 69 | 74 | 87 | rVB | 120071 | 260136 | 0.24% | 0.119% |
| 5 | 2.891 | 156 | 162 | 172 | rVB | 95518 | 238856 | 0.22% | 0.110% |
| 6 | 4.031 | 337 | 349 | 363 | rBV2 | 191403 | 693113 | 0.63% | 0.318% |
| 7 | 4.403 | 397 | 410 | 430 | rVV2 | 44042 | 179490 | 0.16% | 0.082% |
| 8 | 4.940 | 485 | 498 | 511 | rBV3 | 23490 | 106197 | 0.10% | 0.049% |
| 9 | 5.434 | 573 | 579 | 580 | rBV4 | 2659 | 3993 | 0.00% | 0.002% |
| 10 | 5.793 | 625 | 638 | 649 | rBV7 | 4861 | 18916 | 0.02% | 0.009% |
| 11 | 5.958 | 654 | 665 | 679 | rBV6 | 5180 | 24419 | 0.02% | 0.011% |
| 12 | 6.909 | 816 | 821 | 826 | rBV7 | 1847 | 4137 | 0.00% | 0.002% |
| 13 | 7.086 | 842 | 850 | 855 | rBV2 | 28228 | 80417 | 0.07% | 0.037% |
| 14 | 7.659 | 933 | 944 | 967 | rVB | 231429 | 760613 | 0.69% | 0.349% |
| 15 | 7.957 | 987 | 993 | 994 | rBV6 | 1784 | 2987 | 0.00% | 0.001% |
| 16 | 8.305 | 1036 | 1050 | 1073 | rBV3 | 468141 | 2239786 | 2.04% | 1.029% |
| 17 | 8.720 | 1110 | 1118 | 1126 | rVV6 | 6141 | 19525 | 0.02% | 0.009% |
| 18 | 8.854 | 1129 | 1140 | 1162 | rBV | 393423 | 1222170 | 1.11% | 0.561% |
| 19 | 9.104 | 1168 | 1181 | 1201 | rBV | 5128846 | 14723254 | 13.39% | 6.761% |
| 20 | 9.280 | 1201 | 1210 | 1229 | rVB | 262114 | 781413 | 0.71% | 0.359% |
| 21 | 9.762 | 1285 | 1289 | 1292 | rBV7 | 2757 | 5017 | 0.00% | 0.002% |
| 22 | 9.921 | 1305 | 1315 | 1318 | rBV6 | 6642 | 18284 | 0.02% | 0.008% |
| 23 | 10.042 | 1327 | 1335 | 1347 | rVB | 200081 | 414198 | 0.38% | 0.190% |
| 24 | 10.225 | 1360 | 1365 | 1369 | rBV5 | 2516 | 5724 | 0.01% | 0.003% |
| 25 | 10.335 | 1375 | 1383 | 1408 | rBV | 411938 | 1628863 | 1.48% | 0.748% |
| 26 | 10.585 | 1417 | 1424 | 1437 | rVB3 | 111642 | 257662 | 0.23% | 0.118% |
| 27 | 10.853 | 1461 | 1468 | 1479 | rBV | 42948508 | 109985223 | 100.00% | 50.507% |
| 28 | 11.091 | 1503 | 1507 | 1511 | rVB | 42529199 | 46568997 | 42.34% | 21.385% |
| 29 | 11.140 | 1511 | 1515 | 1529 | rVB9 | 51302 | 179746 | 0.16% | 0.083% |
| 30 | 11.439 | 1560 | 1564 | 1575 | rVB6 | 59892 | 178212 | 0.16% | 0.082% |
| 31 | 11.536 | 1575 | 1580 | 1587 | rVB | 47990 | 88252 | 0.08% | 0.041% |
| 32 | 11.658 | 1594 | 1600 | 1608 | rVB | 613174 | 1024255 | 0.93% | 0.470% |
| 33 | 11.749 | 1611 | 1615 | 1619 | rBV | 44918 | 64609 | 0.06% | 0.030% |
| 34 | 11.853 | 1625 | 1632 | 1637 | rBV | 468262 | 812510 | 0.74% | 0.373% |
| 35 | 11.932 | 1642 | 1645 | 1650 | rVB3 | 47413 | 79889 | 0.07% | 0.037% |
| 36 | 11.993 | 1651 | 1655 | 1658 | rBV5 | 6694 | 13484 | 0.01% | 0.006% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Integration Parameters: LSCINT.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_W\Method\SFAMWLM042921SMA.M
Title : SFAM01.0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 12.067 | 1661 | 1667 | 1673 | rVB3 | 34368 | 73767 | 0.07% | 0.034% |
| 38 | 12.176 | 1674 | 1685 | 1692 | rBV3 | 177379 | 519907 | 0.47% | 0.239% |
| 39 | 12.262 | 1692 | 1699 | 1703 | rVB3 | 106624 | 203684 | 0.19% | 0.094% |
| 40 | 12.353 | 1703 | 1714 | 1717 | rBV4 | 119630 | 350245 | 0.32% | 0.161% |
| 41 | 12.396 | 1719 | 1721 | 1726 | rVB | 101982 | 122271 | 0.11% | 0.056% |
| 42 | 12.475 | 1729 | 1734 | 1737 | rBV2 | 42992 | 77248 | 0.07% | 0.035% |
| 43 | 12.518 | 1737 | 1741 | 1743 | rBV3 | 33894 | 53860 | 0.05% | 0.025% |
| 44 | 12.548 | 1743 | 1746 | 1748 | rBV2 | 49078 | 56925 | 0.05% | 0.026% |
| 45 | 12.573 | 1748 | 1750 | 1752 | rBV2 | 60665 | 68880 | 0.06% | 0.032% |
| 46 | 12.658 | 1761 | 1764 | 1766 | rBV | 75653 | 79634 | 0.07% | 0.037% |
| 47 | 12.701 | 1766 | 1771 | 1777 | rVB | 266667 | 443067 | 0.40% | 0.203% |
| 48 | 12.798 | 1777 | 1787 | 1793 | rVB4 | 152518 | 504128 | 0.46% | 0.232% |
| 49 | 12.871 | 1793 | 1799 | 1803 | rBV | 453139 | 768543 | 0.70% | 0.353% |
| 50 | 12.938 | 1803 | 1810 | 1817 | rVB2 | 1048463 | 2106241 | 1.92% | 0.967% |
| 51 | 13.036 | 1824 | 1826 | 1830 | rVB3 | 26623 | 31504 | 0.03% | 0.014% |
| 52 | 13.109 | 1830 | 1838 | 1844 | rBV2 | 198616 | 520170 | 0.47% | 0.239% |
| 53 | 13.170 | 1844 | 1848 | 1850 | rVV | 246908 | 381918 | 0.35% | 0.175% |
| 54 | 13.194 | 1850 | 1852 | 1856 | rVV | 220318 | 306830 | 0.28% | 0.141% |
| 55 | 13.255 | 1856 | 1862 | 1867 | rVV | 1171578 | 1812145 | 1.65% | 0.832% |
| 56 | 13.298 | 1867 | 1869 | 1874 | rVB2 | 123857 | 157601 | 0.14% | 0.072% |
| 57 | 13.347 | 1874 | 1877 | 1879 | rBV2 | 52781 | 71149 | 0.06% | 0.033% |
| 58 | 13.414 | 1880 | 1888 | 1890 | rVV2 | 230219 | 492178 | 0.45% | 0.226% |
| 59 | 13.450 | 1890 | 1894 | 1897 | rVV2 | 281179 | 489795 | 0.45% | 0.225% |
| 60 | 13.487 | 1897 | 1900 | 1903 | rVV2 | 249086 | 399040 | 0.36% | 0.183% |
| 61 | 13.524 | 1903 | 1906 | 1908 | rVV | 172756 | 253277 | 0.23% | 0.116% |
| 62 | 13.560 | 1908 | 1912 | 1914 | rVV2 | 770874 | 1250999 | 1.14% | 0.574% |
| 63 | 13.591 | 1914 | 1917 | 1929 | rVB5 | 944030 | 2194294 | 2.00% | 1.008% |
| 64 | 13.719 | 1930 | 1938 | 1940 | rBV5 | 136986 | 321954 | 0.29% | 0.148% |
| 65 | 13.755 | 1940 | 1944 | 1947 | rVV2 | 472539 | 823972 | 0.75% | 0.378% |
| 66 | 13.792 | 1947 | 1950 | 1955 | rVV2 | 426463 | 786097 | 0.71% | 0.361% |
| 67 | 13.871 | 1957 | 1963 | 1969 | rVV2 | 2357327 | 4085786 | 3.71% | 1.876% |
| 68 | 13.950 | 1973 | 1976 | 1980 | rVV | 171695 | 263428 | 0.24% | 0.121% |
| 69 | 14.011 | 1982 | 1986 | 1988 | rVV | 283886 | 432425 | 0.39% | 0.199% |
| 70 | 14.042 | 1988 | 1991 | 1995 | rVV | 353586 | 541430 | 0.49% | 0.249% |
| 71 | 14.097 | 1995 | 2000 | 2005 | rVB | 509798 | 762166 | 0.69% | 0.350% |
| 72 | 14.206 | 2012 | 2018 | 2023 | rVB3 | 312722 | 535654 | 0.49% | 0.246% |
| 73 | 14.261 | 2023 | 2027 | 2033 | rVV6 | 114507 | 230037 | 0.21% | 0.106% |
| 74 | 14.347 | 2034 | 2041 | 2044 | rVV4 | 300919 | 635512 | 0.58% | 0.292% |
| 75 | 14.389 | 2044 | 2048 | 2051 | rVV2 | 409839 | 751499 | 0.68% | 0.345% |
| 76 | 14.426 | 2051 | 2054 | 2057 | rVV2 | 513463 | 848418 | 0.77% | 0.390% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Integration Parameters: LSCINT.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_W\Method\SFAMWLM042921SMA.M
Title : SFAM01.0

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 14.456 | 2057 | 2059 | 2063 | rVV | 471527 | 605675 | 0.55% | 0.278% |
| 78 | 14.499 | 2063 | 2066 | 2070 | rVV2 | 337536 | 479569 | 0.44% | 0.220% |
| 79 | 14.542 | 2070 | 2073 | 2080 | rVB4 | 117875 | 204227 | 0.19% | 0.094% |
| 80 | 14.639 | 2086 | 2089 | 2093 | rBV2 | 57853 | 74139 | 0.07% | 0.034% |
| 81 | 14.688 | 2093 | 2097 | 2098 | rVV3 | 134718 | 168019 | 0.15% | 0.077% |
| 82 | 14.718 | 2098 | 2102 | 2109 | rVB | 1418896 | 2097022 | 1.91% | 0.963% |
| 83 | 14.792 | 2109 | 2114 | 2119 | rBV3 | 410703 | 919416 | 0.84% | 0.422% |
| 84 | 14.840 | 2119 | 2122 | 2129 | rVB2 | 254042 | 480649 | 0.44% | 0.221% |
| 85 | 15.011 | 2147 | 2150 | 2153 | rBV4 | 28463 | 38177 | 0.03% | 0.018% |
| 86 | 15.060 | 2154 | 2158 | 2165 | rVB4 | 80663 | 156368 | 0.14% | 0.072% |
| 87 | 15.164 | 2168 | 2175 | 2179 | rVV5 | 135724 | 341333 | 0.31% | 0.157% |
| 88 | 15.206 | 2179 | 2182 | 2185 | rVV | 122420 | 193662 | 0.18% | 0.089% |
| 89 | 15.249 | 2185 | 2189 | 2196 | rVB3 | 203007 | 417412 | 0.38% | 0.192% |
| 90 | 15.322 | 2196 | 2201 | 2205 | rBV | 295180 | 506479 | 0.46% | 0.233% |
| 91 | 15.365 | 2205 | 2208 | 2217 | rVB | 119398 | 232706 | 0.21% | 0.107% |
| 92 | 15.548 | 2233 | 2238 | 2247 | rVB | 948992 | 1505169 | 1.37% | 0.691% |
| 93 | 15.663 | 2248 | 2257 | 2262 | rBV8 | 75908 | 238340 | 0.22% | 0.109% |
| 94 | 16.005 | 2307 | 2313 | 2316 | rBV3 | 53848 | 115316 | 0.10% | 0.053% |
| 95 | 16.090 | 2322 | 2327 | 2330 | rBV | 63083 | 106780 | 0.10% | 0.049% |
| 96 | 16.133 | 2330 | 2334 | 2343 | rVV3 | 73570 | 164124 | 0.15% | 0.075% |
| 97 | 16.218 | 2343 | 2348 | 2353 | rVV2 | 87962 | 164100 | 0.15% | 0.075% |
| 98 | 16.279 | 2353 | 2358 | 2367 | rVB | 87062 | 171253 | 0.16% | 0.079% |
| 99 | 16.493 | 2386 | 2393 | 2404 | rVB | 335056 | 657485 | 0.60% | 0.302% |
| 100 | 16.602 | 2406 | 2411 | 2417 | rBV6 | 20707 | 48445 | 0.04% | 0.022% |

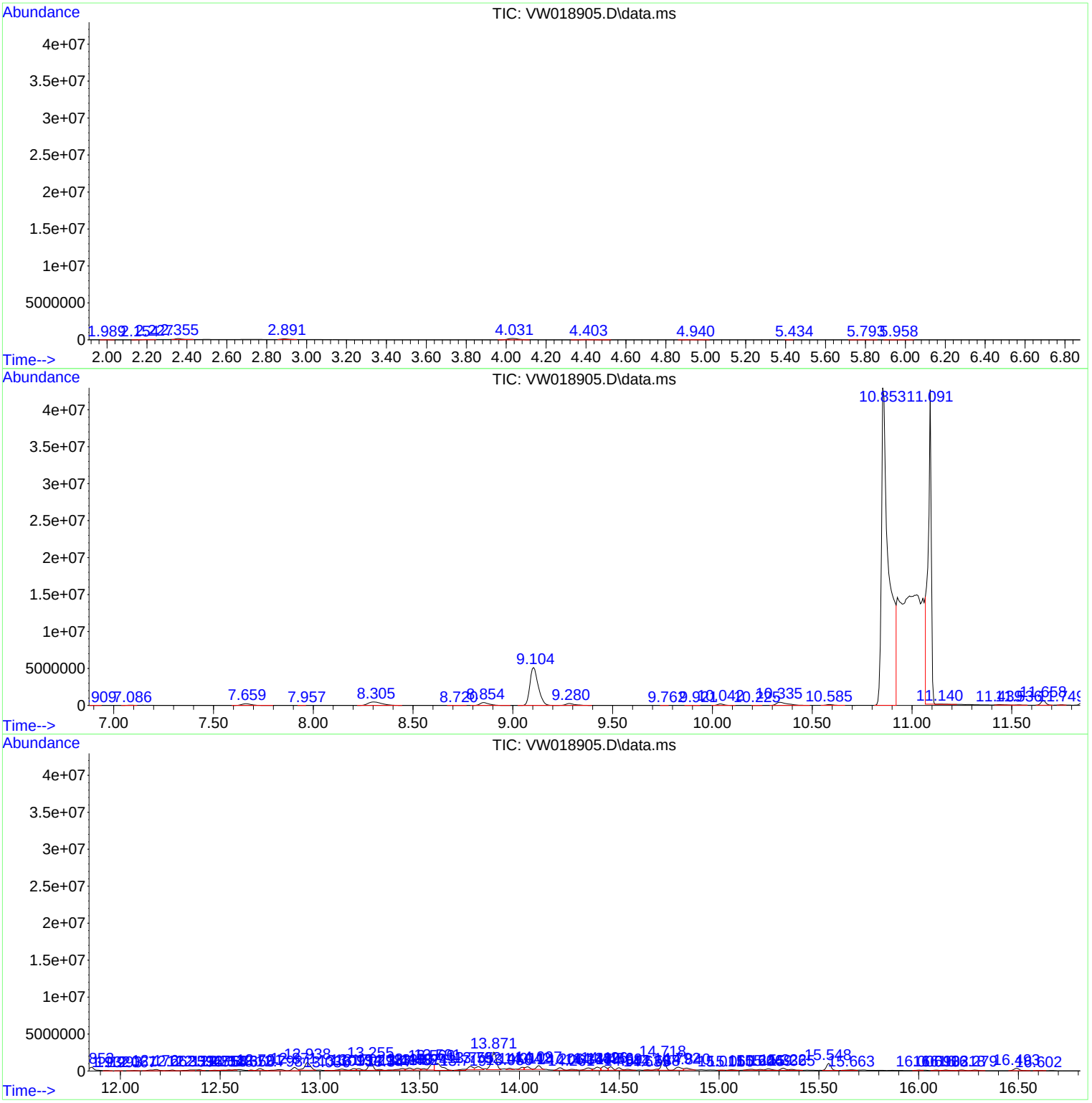
Sum of corrected areas: 217761229

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

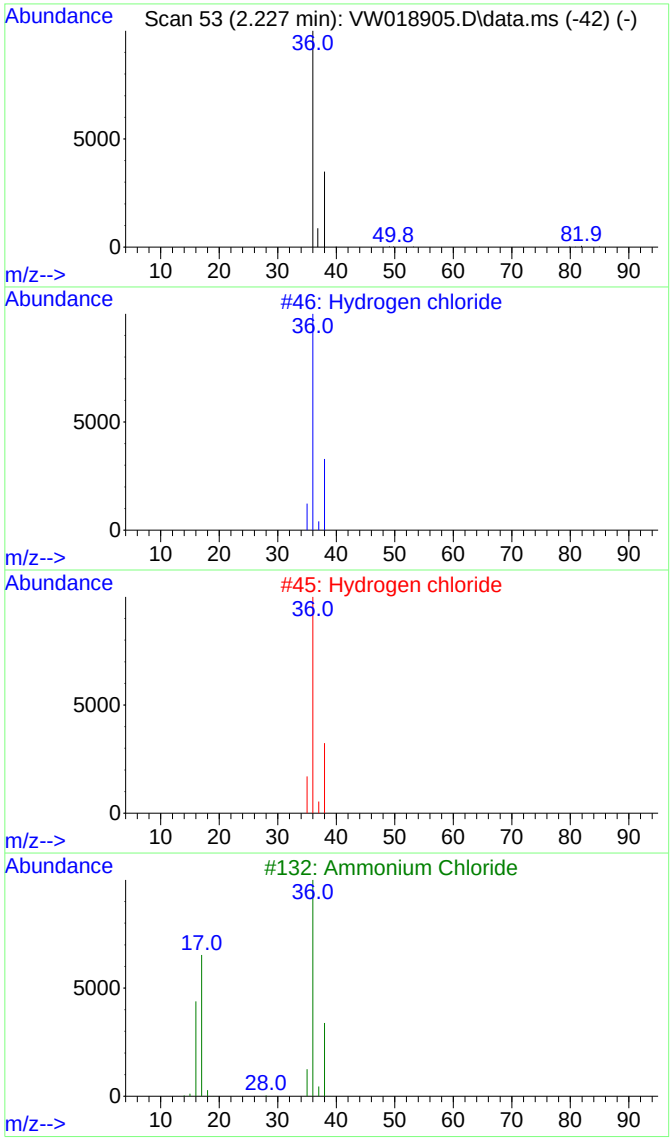
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

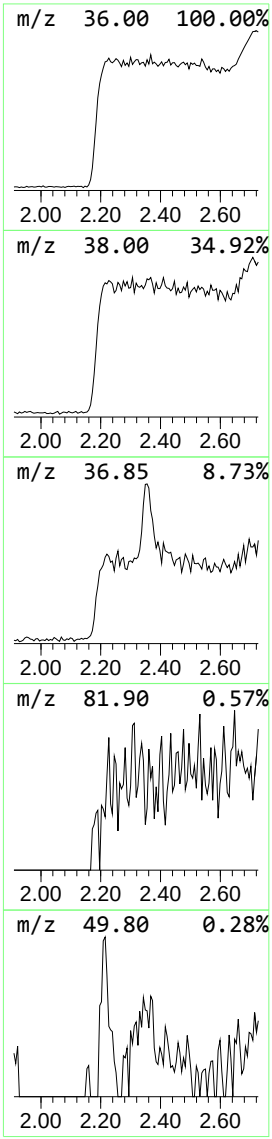
**********

Peak Number 1 unknown-01 Concentration Rank 46

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.227 | 2.88 ug/L | 141007 | 1,4-Difluorobenzene | 8.854 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hydrogen chloride | 36 | ClH | 007647-01-0 | 9 |
| 2 | Hydrogen chloride | 36 | ClH | 007647-01-0 | 9 |
| 3 | Ammonium Chloride | 53 | ClH4N | 012125-02-9 | 4 |
| 4 | Methanol-D4 | 36 | CD4O | 000811-98-3 | 2 |
| 5 | 2-Chloroethylamine | 79 | C2H6ClN | 000689-98-5 | 1 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

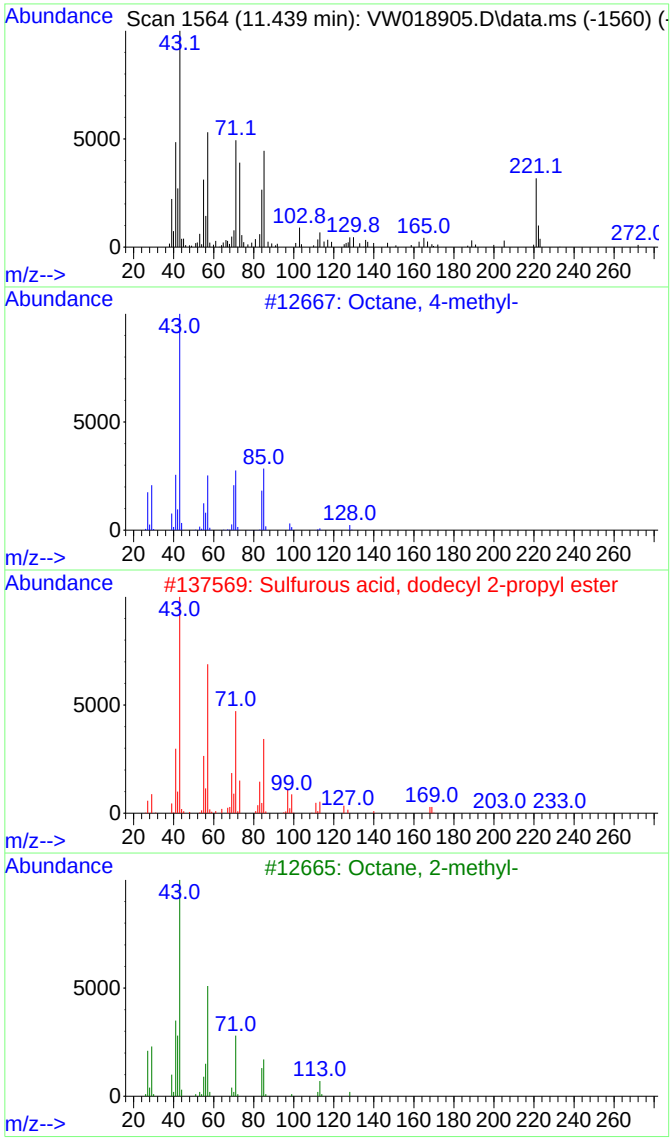
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

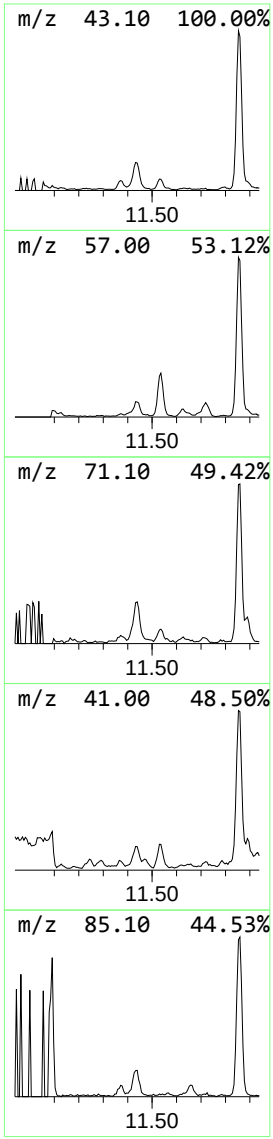
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.439 | 4.35 ug/L | 178212 | Chlorobenzene-d5 | 11.658 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 4-methyl- | 128 | C9H20 | 002216-34-4 | 47 |
| 2 | Sulfurous acid, dodecyl 2-propyl... | 292 | C15H32O3S | 1000309-12-3 | 47 |
| 3 | Octane, 2-methyl- | 128 | C9H20 | 003221-61-2 | 46 |
| 4 | Hexane, 2,3,5-trimethyl- | 128 | C9H20 | 001069-53-0 | 38 |
| 5 | Sulfurous acid, hexyl octyl ester | 278 | C14H30O3S | 1000309-13-0 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

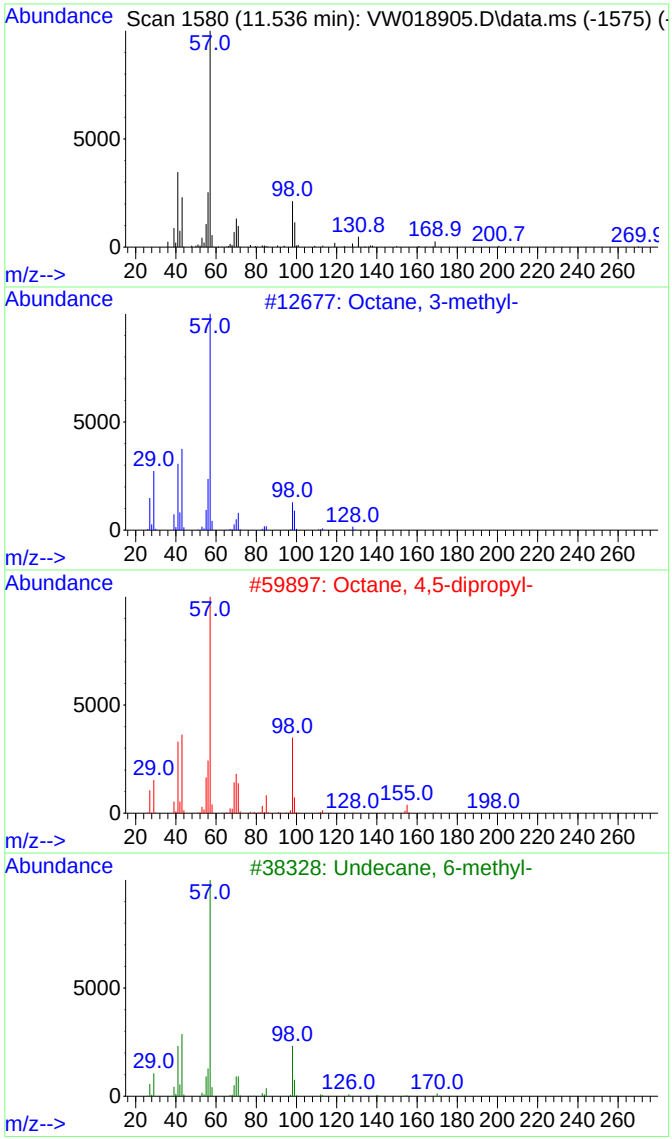
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

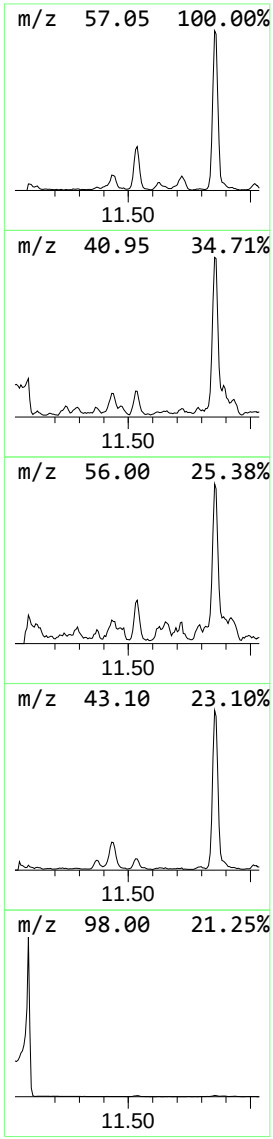
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 48

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.536 | 2.15 ug/L | 88252 | Chlorobenzene-d5 | 11.658 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 3-methyl- | 128 | C9H20 | 002216-33-3 | 64 |
| 2 | Octane, 4,5-dipropyl- | 198 | C14H30 | 020905-05-9 | 64 |
| 3 | Undecane, 6-methyl- | 170 | C12H26 | 017302-33-9 | 59 |
| 4 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 58 |
| 5 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 58 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BG7F3

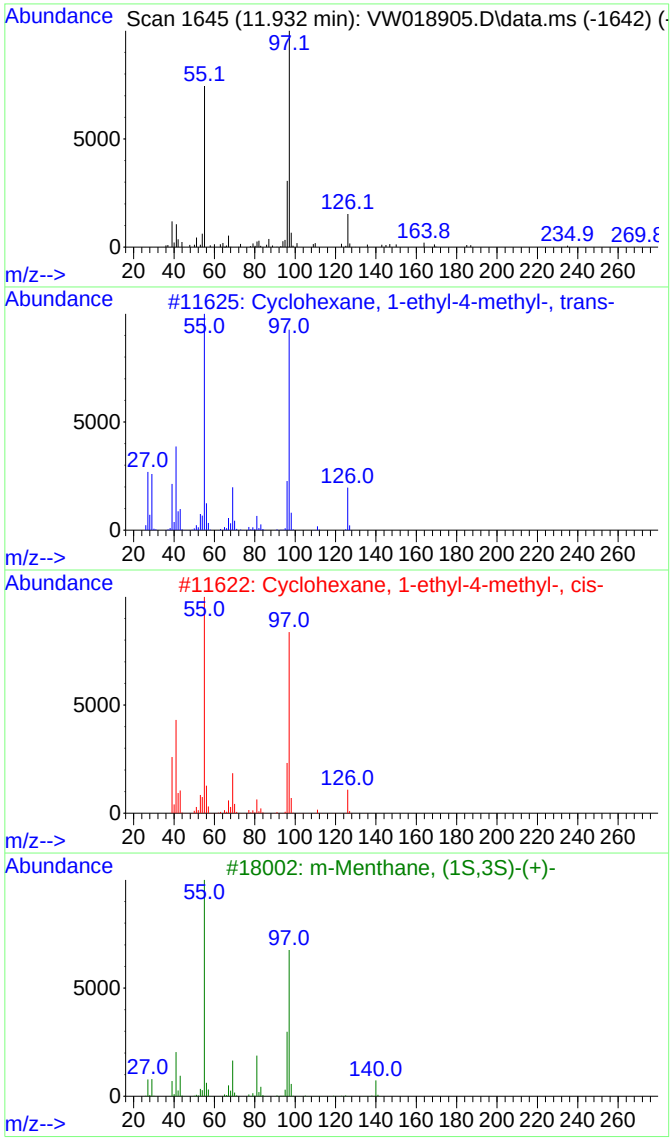
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

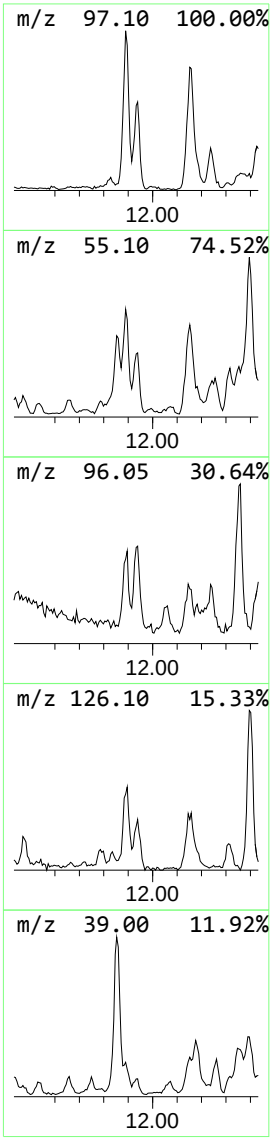
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 (DEL) Alkane: Cyclic11.932 Concentration Rank 50

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.932 | 1.95 ug/L | 79889 | Chlorobenzene-d5 | 11.658 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 006236-88-0 | 72 |
| 2 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 72 |
| 3 | m-Menthane, (1S,3S)-(+)- | 140 | C10H20 | 013837-67-7 | 64 |
| 4 | cis-1-Ethyl-3-methyl-cyclohexane | 126 | C9H18 | 019489-10-2 | 64 |
| 5 | 1-Ethyl-3-methylcyclohexane (c,t) | 126 | C9H18 | 003728-55-0 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

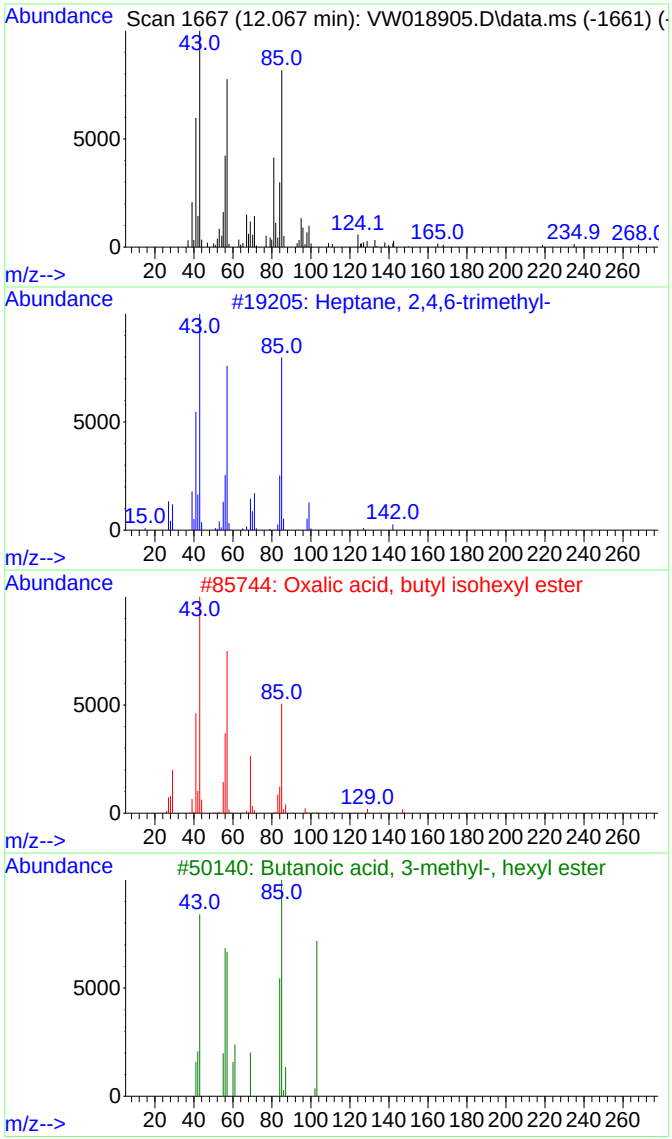
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

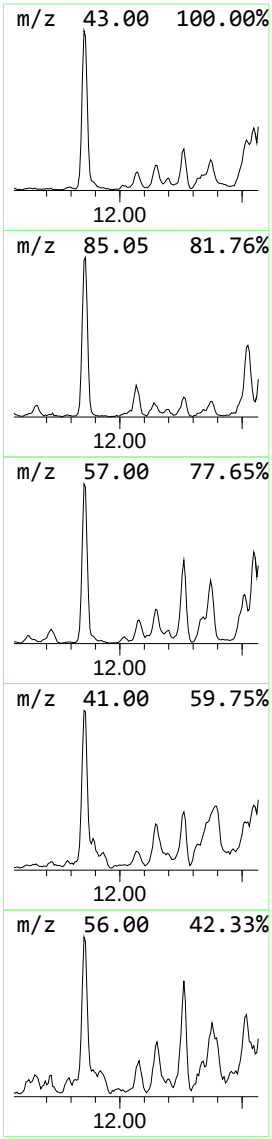
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 51

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.067 | 1.80 ug/L | 73767 | Chlorobenzene-d5 | 11.658 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,4,6-trimethyl- | 142 | C10H22 | 002613-61-8 | 70 |
| 2 | Oxalic acid, butyl isohexyl ester | 230 | C12H22O4 | 1000309-32-7 | 59 |
| 3 | Butanoic acid, 3-methyl-, hexyl ... | 186 | C11H22O2 | 010032-13-0 | 53 |
| 4 | Hexane, 1,1'-oxybis- | 186 | C12H26O | 000112-58-3 | 53 |
| 5 | Dodecane, 5-methyl- | 184 | C13H28 | 017453-93-9 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

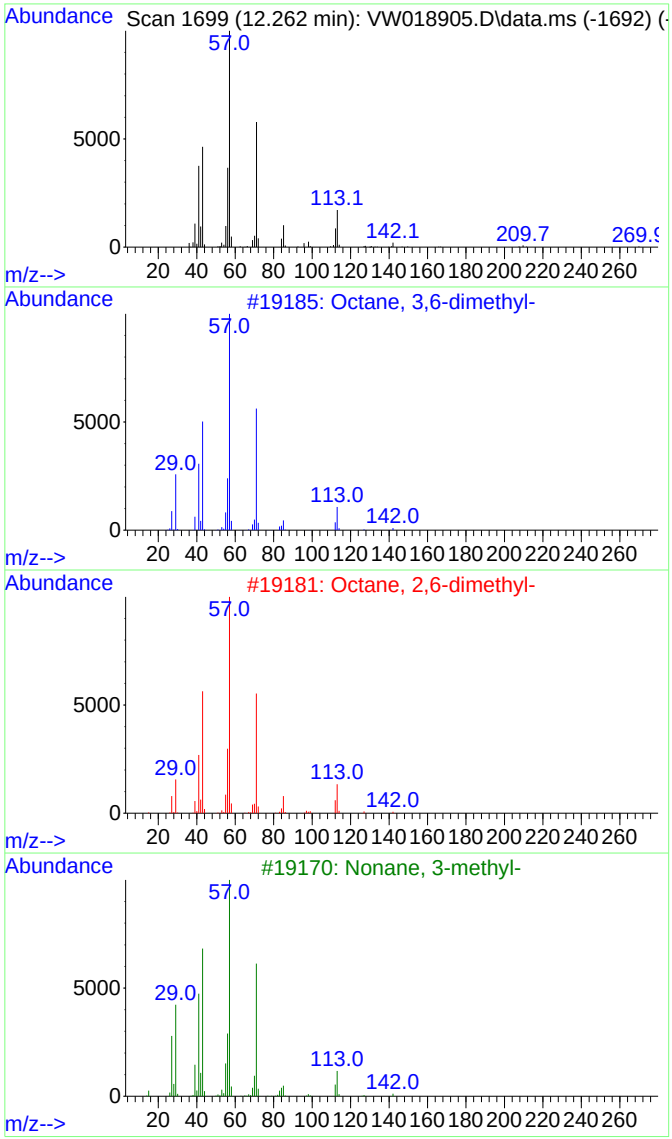
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

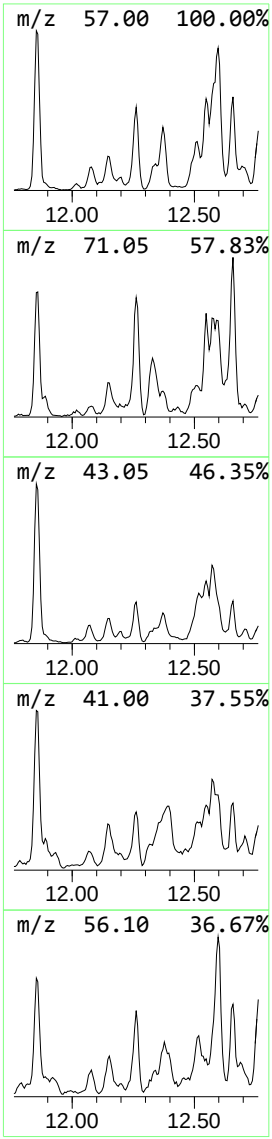
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.262 | 4.97 ug/L | 203684 | Chlorobenzene-d5 | 11.658 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 91 |
| 2 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 90 |
| 3 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 90 |
| 4 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 87 |
| 5 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 86 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

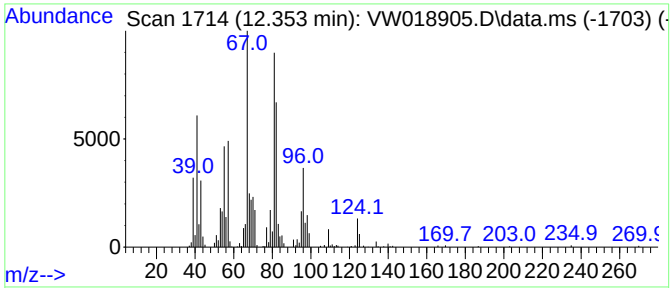
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

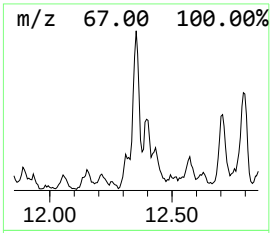
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

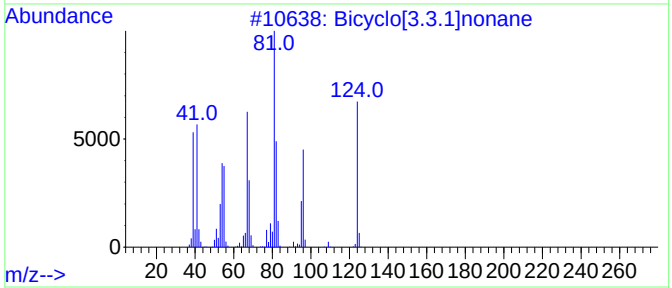
**********
Peak Number 10 Bicyclo[3.3.1]nonane Concentration Rank 24

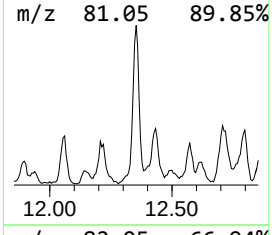
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.353 | 8.55 ug/L | 350245 | Chlorobenzene-d5 | 11.658 |

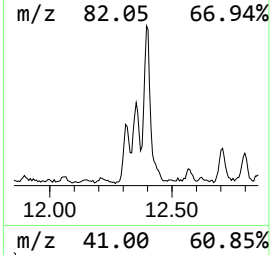
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[3.3.1]nonane | 124 | C9H16 | 000280-65-9 | 76 |
| 2 | 1H-Indene, octahydro-, cis- | 124 | C9H16 | 004551-51-3 | 70 |
| 3 | Pentalene, octahydro-2-methyl- | 124 | C9H16 | 003868-64-2 | 53 |
| 4 | Bicyclo[4.1.0]heptane | 96 | C7H12 | 000286-08-8 | 52 |
| 5 | Cyclohexene, 4-methyl- | 96 | C7H12 | 000591-47-9 | 45 |

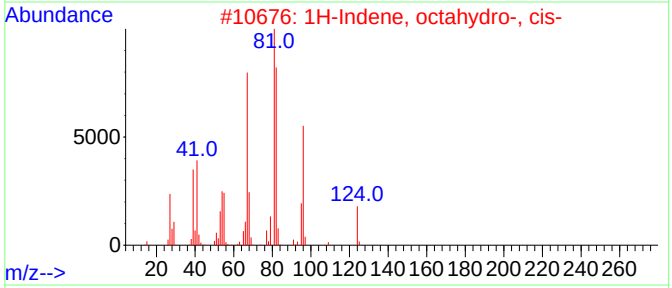


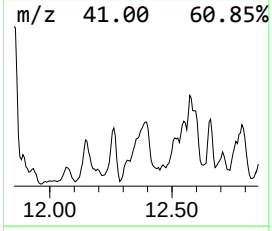



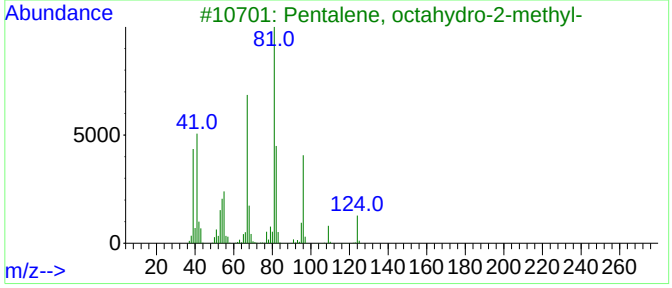



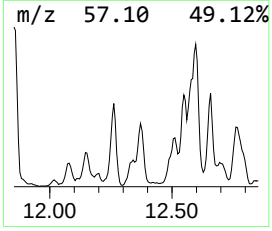



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

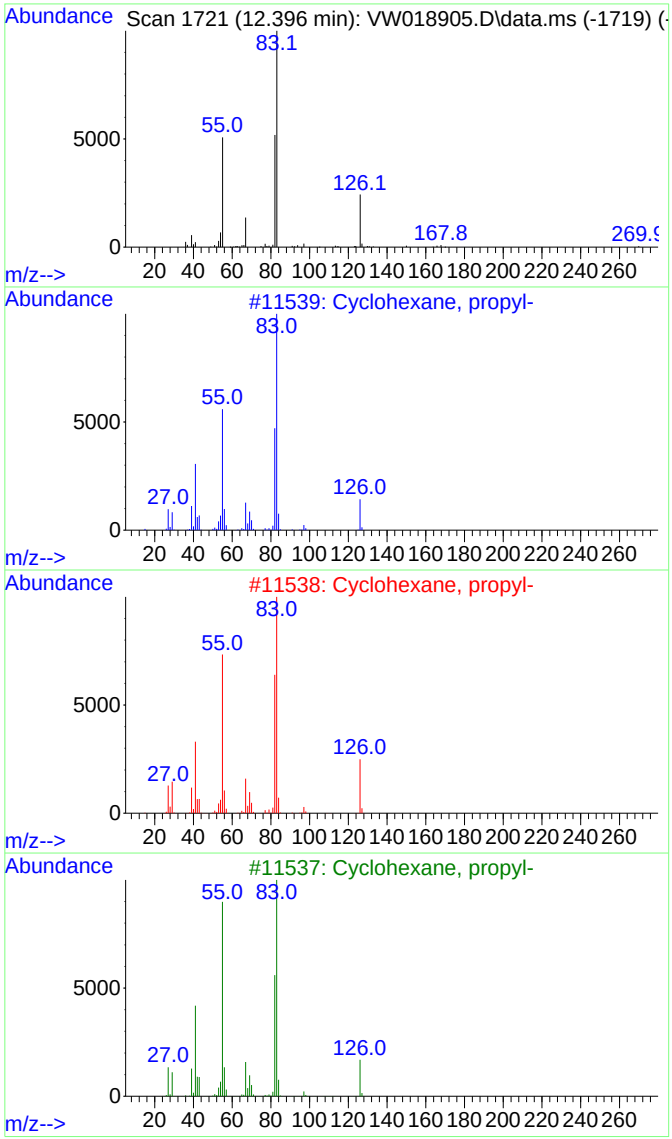
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

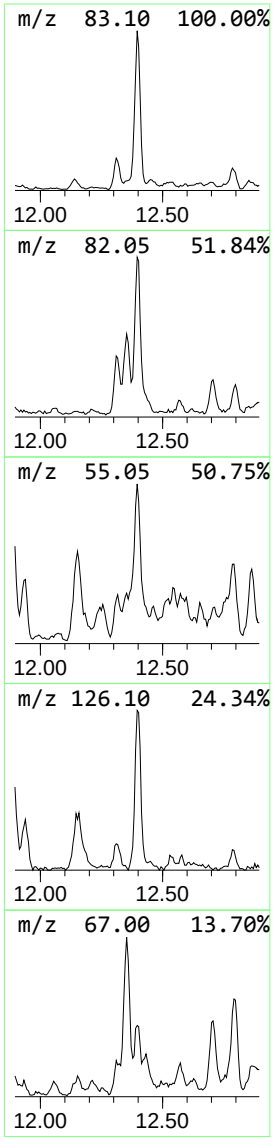
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 11 (DEL) Alkane: Cyclic12.396 Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.396 | 2.98 ug/L | 122271 | Chlorobenzene-d5 | 11.658 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 83 |
| 2 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 83 |
| 3 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 74 |
| 4 | Hexane, 1,6-dicyclohexyl- | 250 | C18H34 | 001610-23-7 | 56 |
| 5 | Cyclohexane, octyl- | 196 | C14H28 | 001795-15-9 | 56 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

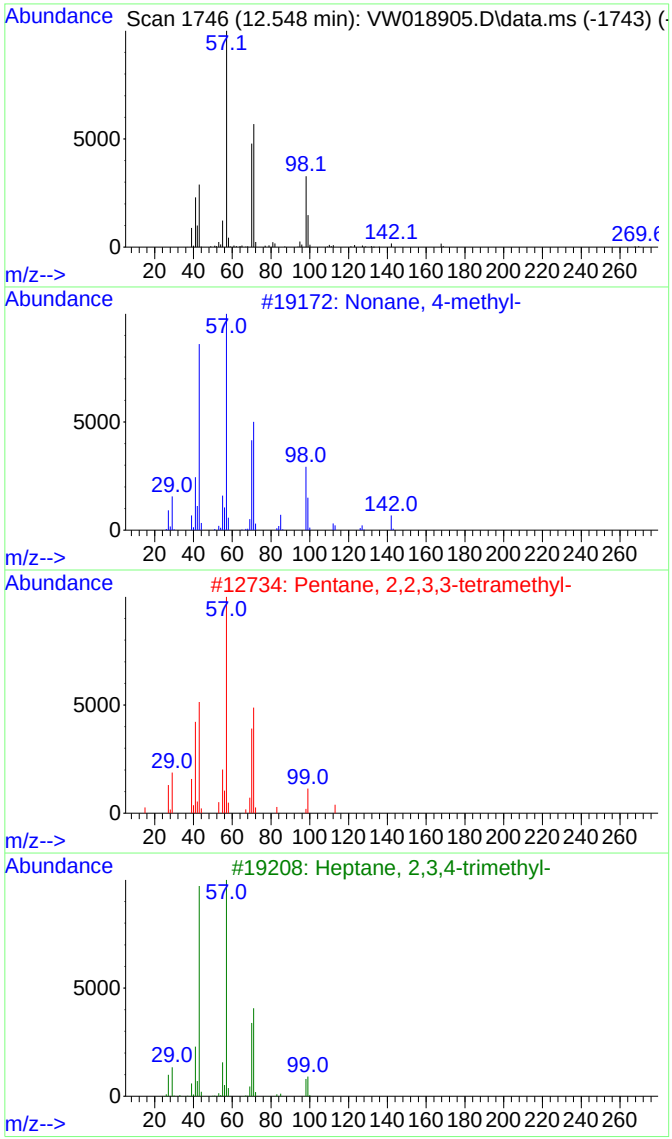
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

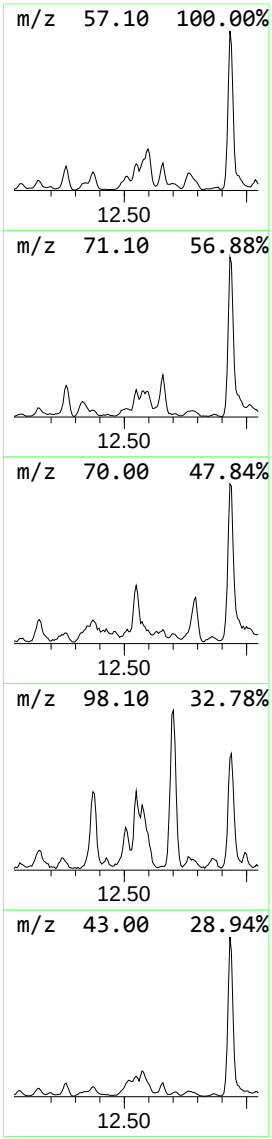
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 55

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.548 | 1.39 ug/L | 56925 | Chlorobenzene-d5 | 11.658 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 4-methyl- | 142 | C10H22 | 017301-94-9 | 72 |
| 2 | Pentane, 2,2,3,3-tetramethyl- | 128 | C9H20 | 007154-79-2 | 50 |
| 3 | Heptane, 2,3,4-trimethyl- | 142 | C10H22 | 052896-95-4 | 50 |
| 4 | Nonane, 4-methyl- | 142 | C10H22 | 017301-94-9 | 47 |
| 5 | Octane, 3,5-dimethyl- | 142 | C10H22 | 015869-93-9 | 43 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

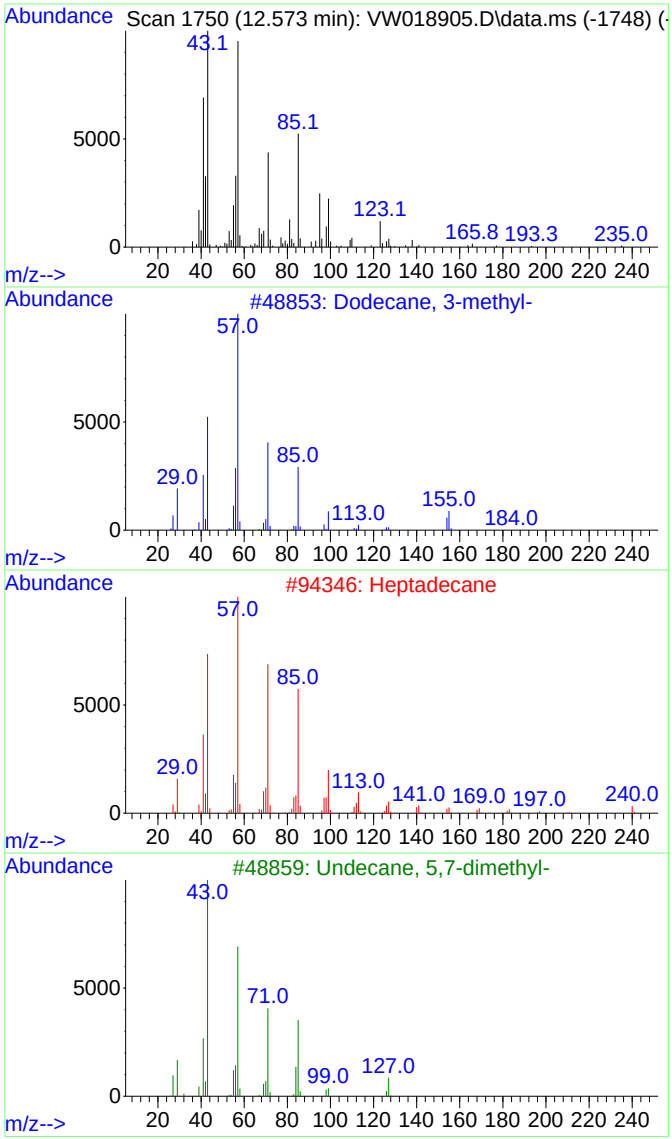
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

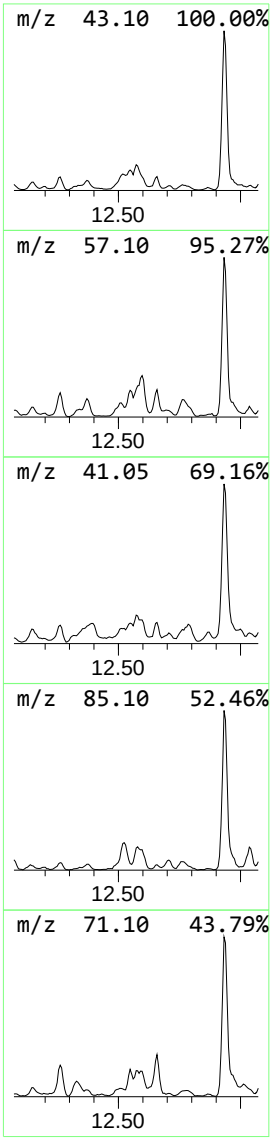
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 52

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.573 | 1.68 ug/L | 68880 | Chlorobenzene-d5 | 11.658 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 3-methyl- | 184 | C13H28 | 017312-57-1 | 50 |
| 2 | Heptadecane | 240 | C17H36 | 000629-78-7 | 47 |
| 3 | Undecane, 5,7-dimethyl- | 184 | C13H28 | 017312-83-3 | 43 |
| 4 | Oxirane, 2-methyl-3-propyl-, cis- | 100 | C6H12O | 006124-90-9 | 43 |
| 5 | Undecane, 2,7-dimethyl- | 184 | C13H28 | 017301-24-5 | 43 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BG7F3

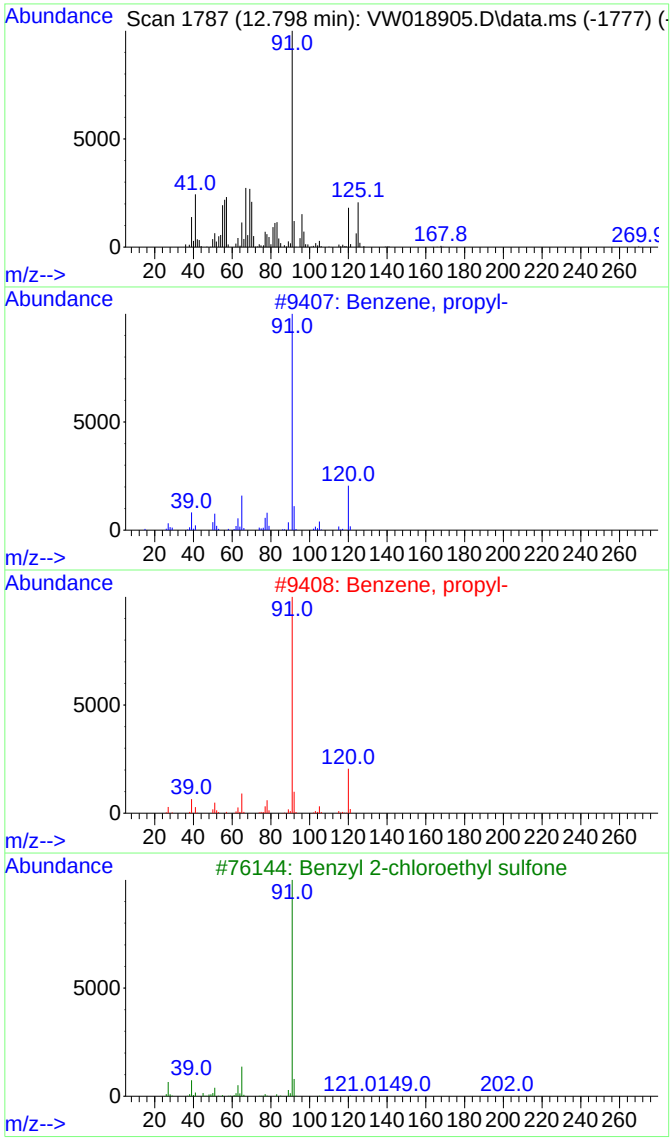
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

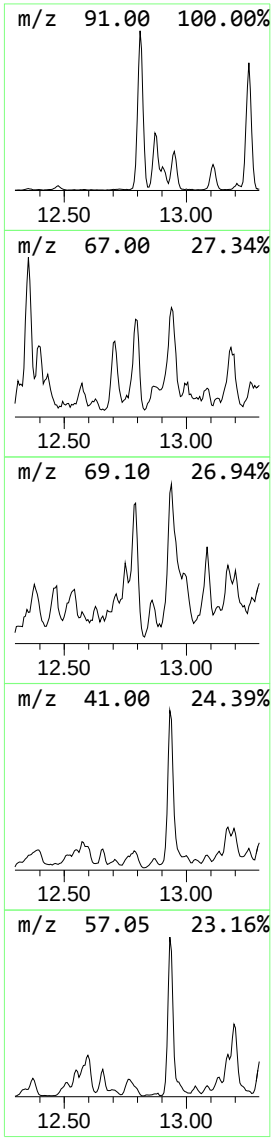
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 14 Benzene, propyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.798 | 10.07 ug/L | 504128 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 53 |
| 2 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 15 |
| 3 | Benzyl 2-chloroethyl sulfone | 218 | C9H11ClO2S | 066998-67-2 | 10 |
| 4 | Benzaldehyde, 3-hydroxy-4-benzyl... | 228 | C14H12O3 | 004049-39-2 | 10 |
| 5 | N-Benzyl-2-phenethylamine | 211 | C15H17N | 003647-71-0 | 10 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

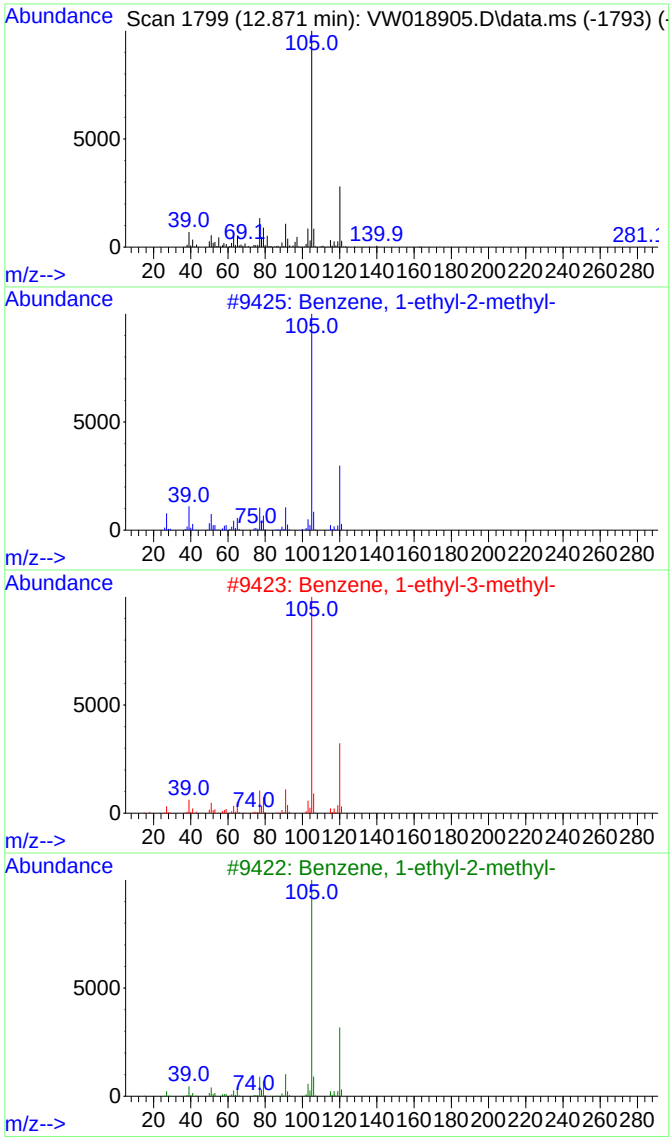
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

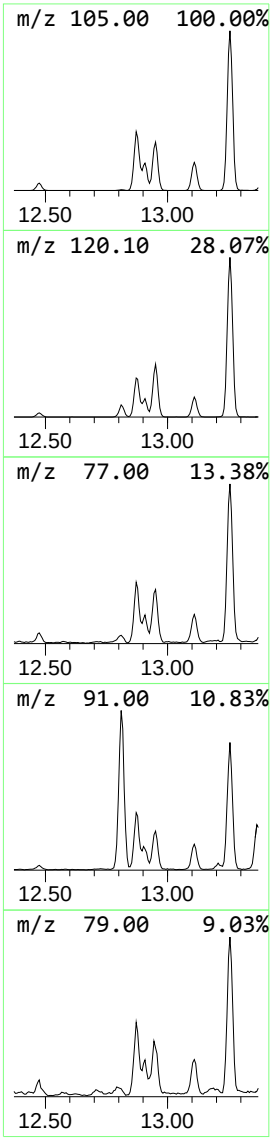
**********

Peak Number 15 Benzene, 1-ethyl-2-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.871 | 15.36 ug/L | 768543 | 1,4-Dichlorobenzene-d4 | 13.560 |

| 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-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 94 |
| 5 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 94 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

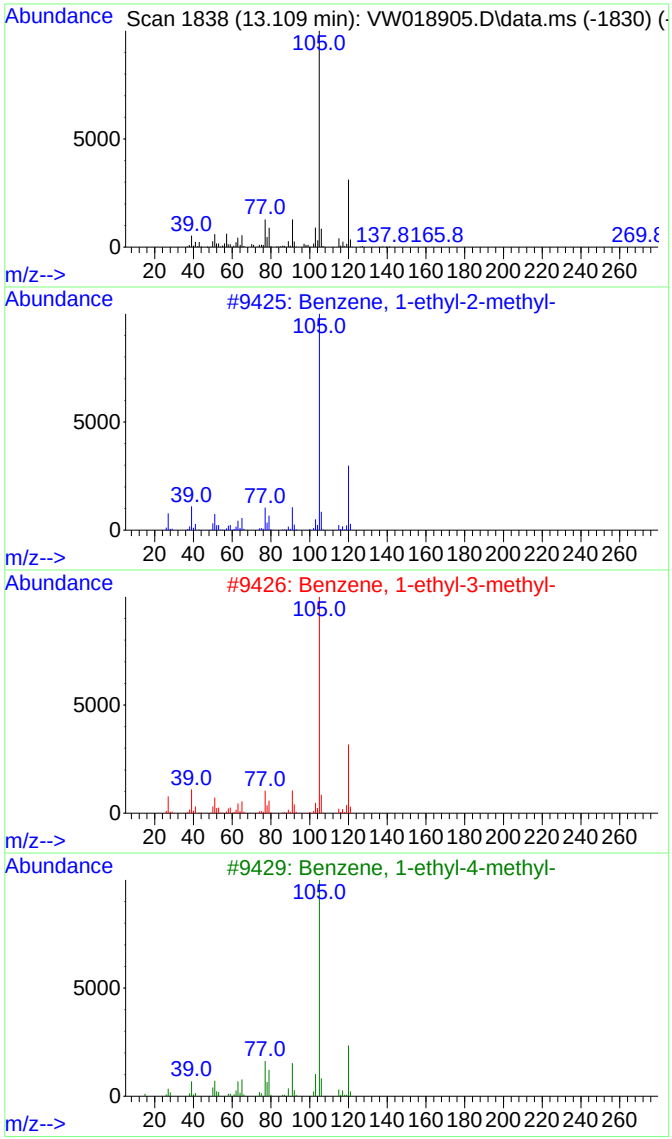
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

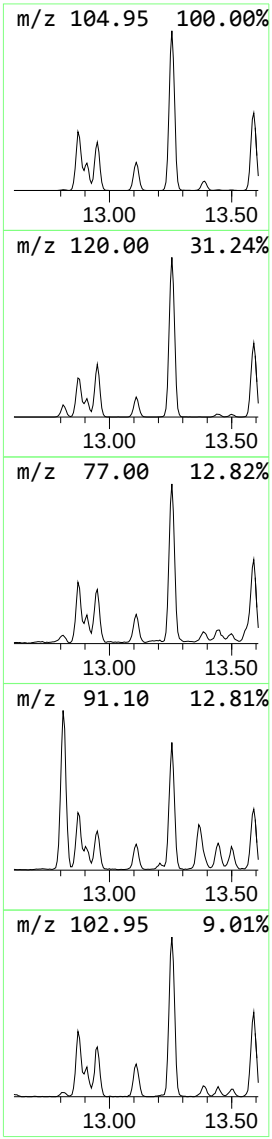
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 16 Benzene, 1-ethyl-3-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.109 | 10.40 ug/L | 520170 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 93 |
| 2 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 90 |
| 3 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 90 |
| 4 | Mesitylene | 120 | C9H12 | 000108-67-8 | 90 |
| 5 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 90 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BG7F3

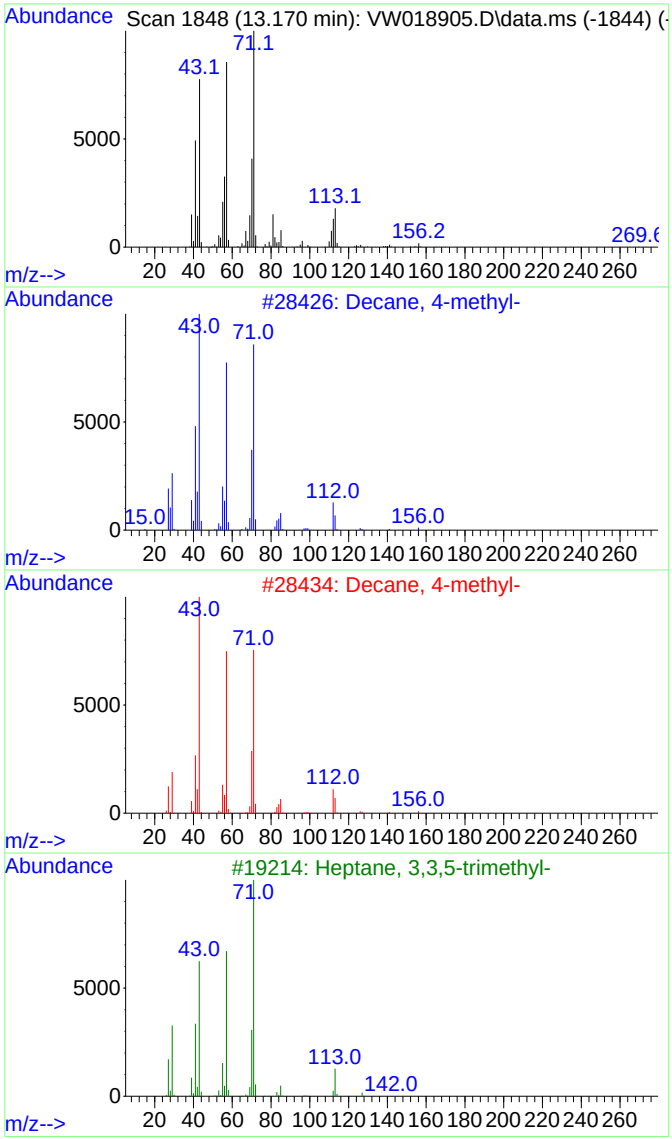
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

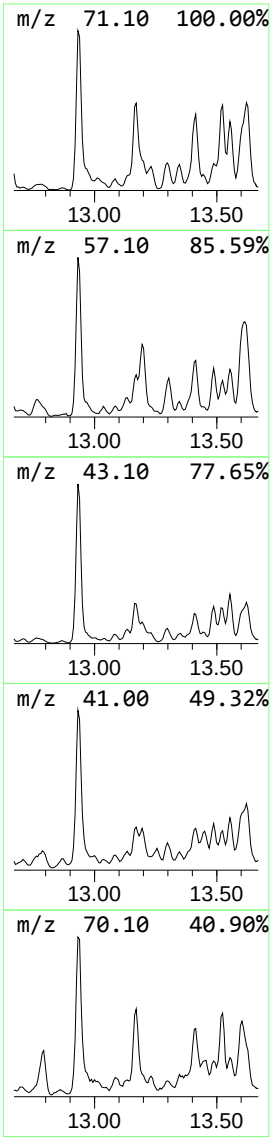
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.170 | 7.63 ug/L | 381918 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 87 |
| 2 | Decane, 4-methyl- | 156 | C11H24 | 002847-72-5 | 80 |
| 3 | Heptane, 3,3,5-trimethyl- | 142 | C10H22 | 007154-80-5 | 72 |
| 4 | Octane, 1,1'-oxybis- | 242 | C16H34O | 000629-82-3 | 72 |
| 5 | Heptane, 3,3,5-trimethyl- | 142 | C10H22 | 007154-80-5 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

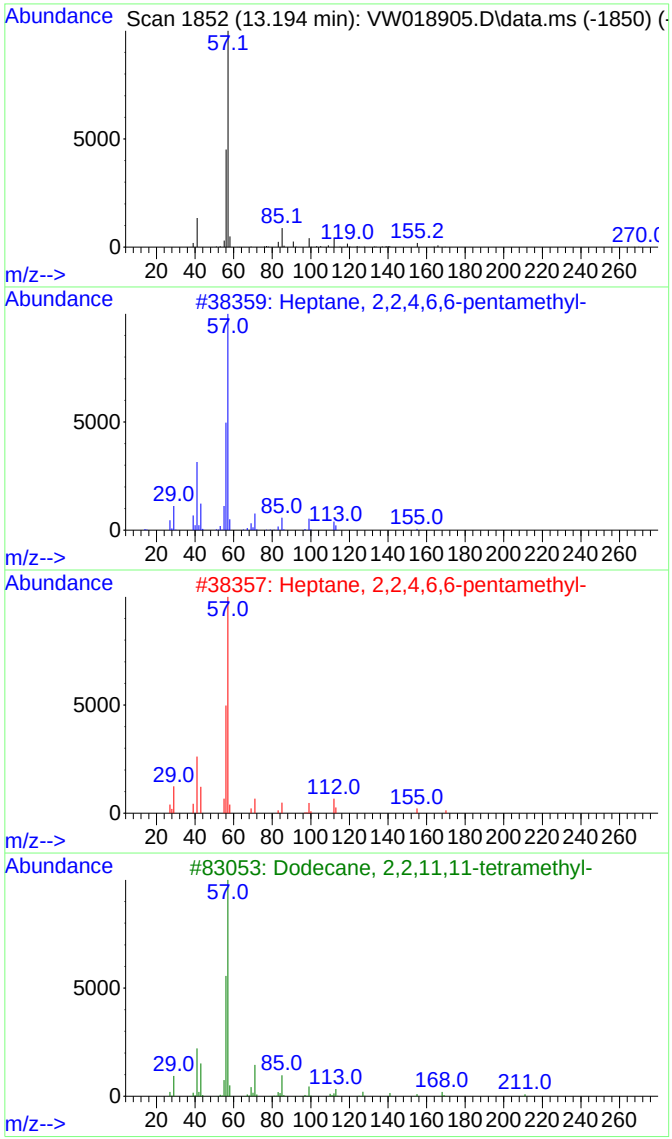
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

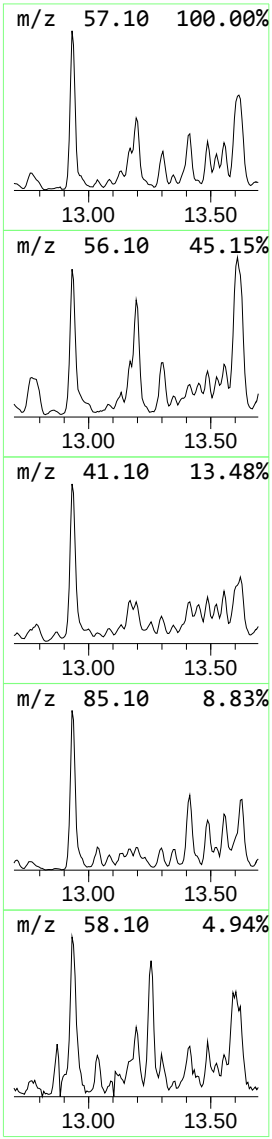
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.194 | 6.13 ug/L | 306830 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,2,4,6,6-pentamethyl- | 170 | C12H26 | 013475-82-6 | 56 |
| 2 | Heptane, 2,2,4,6,6-pentamethyl- | 170 | C12H26 | 013475-82-6 | 50 |
| 3 | Dodecane, 2,2,11,11-tetramethyl- | 226 | C16H34 | 127204-12-0 | 50 |
| 4 | Octane, 2,2,6-trimethyl- | 156 | C11H24 | 062016-28-8 | 39 |
| 5 | Nonane, 2,2,4,4,6,8,8-heptamethyl- | 226 | C16H34 | 004390-04-9 | 17 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

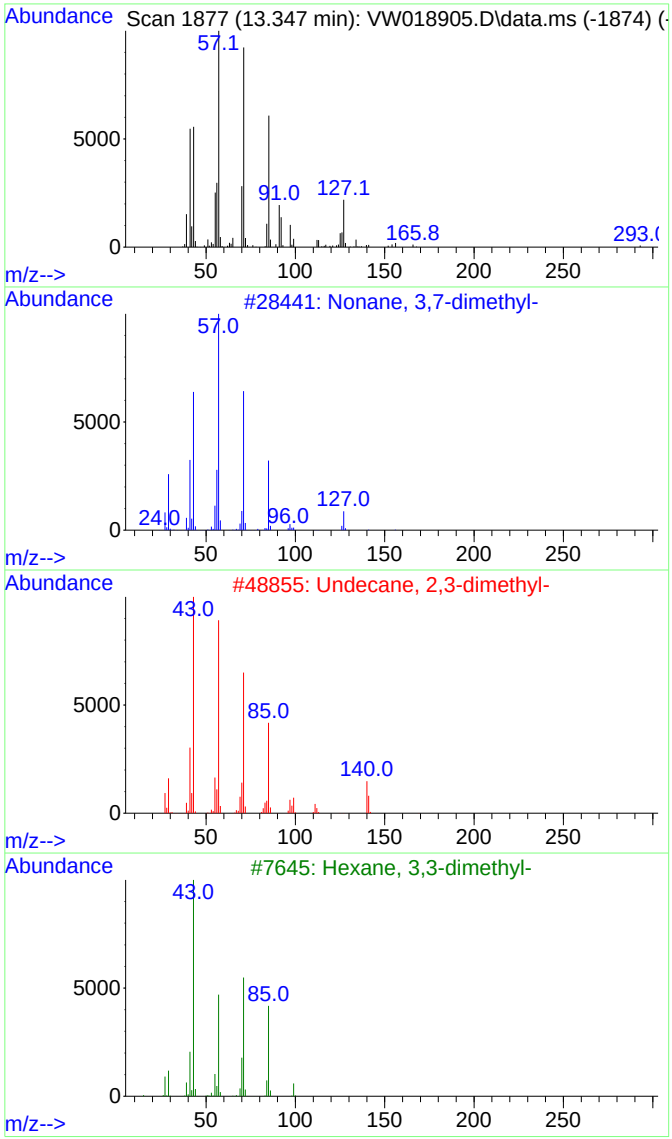
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

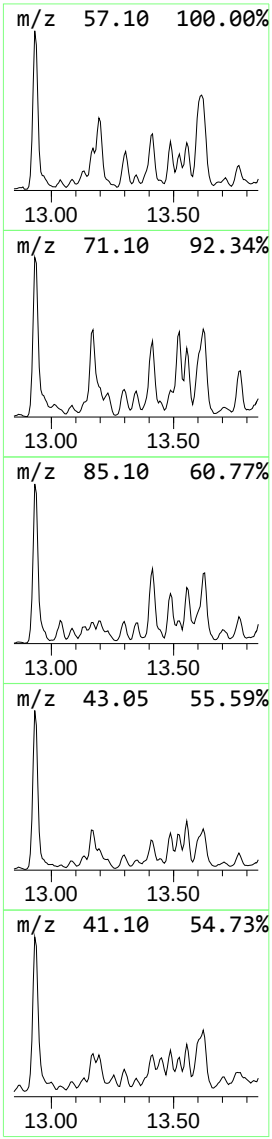
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 54

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.347 | 1.42 ug/L | 71149 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 3,7-dimethyl- | 156 | C11H24 | 017302-32-8 | 72 |
| 2 | Undecane, 2,3-dimethyl- | 184 | C13H28 | 017312-77-5 | 59 |
| 3 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 53 |
| 4 | Sulfurous acid, 2-ethylhexyl iso... | 278 | C14H30O3S | 1000309-19-0 | 50 |
| 5 | Nonane, 1-iodo- | 254 | C9H19I | 004282-42-2 | 47 |



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Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

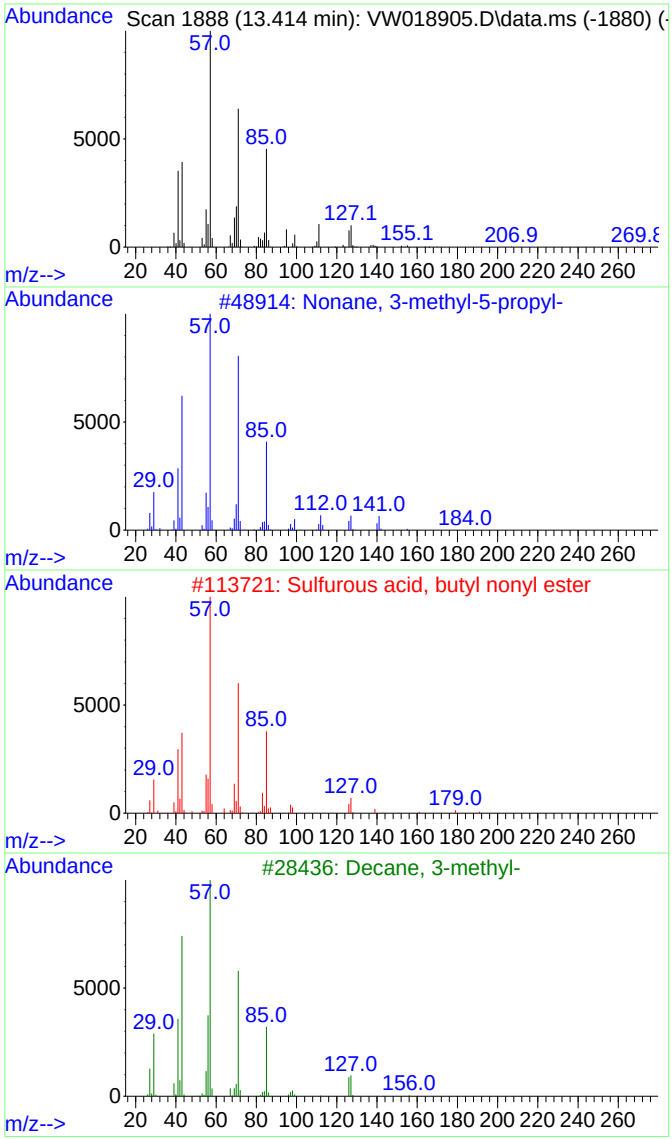
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

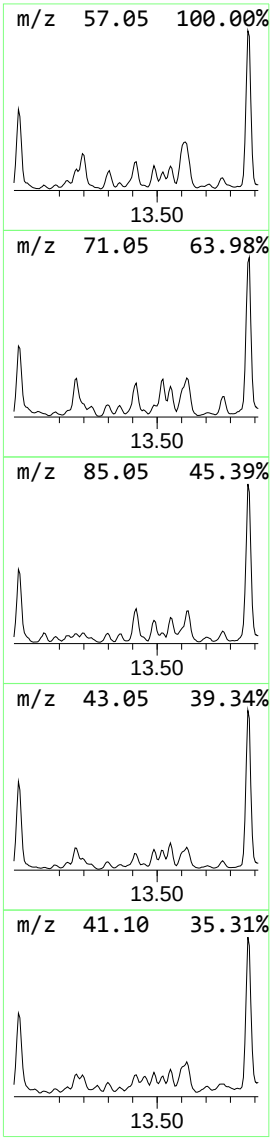
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.414 | 9.84 ug/L | 492178 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 3-methyl-5-propyl- | 184 | C13H28 | 031081-18-2 | 78 |
| 2 | Sulfurous acid, butyl nonyl ester | 264 | C13H28O3S | 1000309-17-6 | 72 |
| 3 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 72 |
| 4 | Pentadecane | 212 | C15H32 | 000629-62-9 | 64 |
| 5 | Eicosane | 282 | C20H42 | 000112-95-8 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

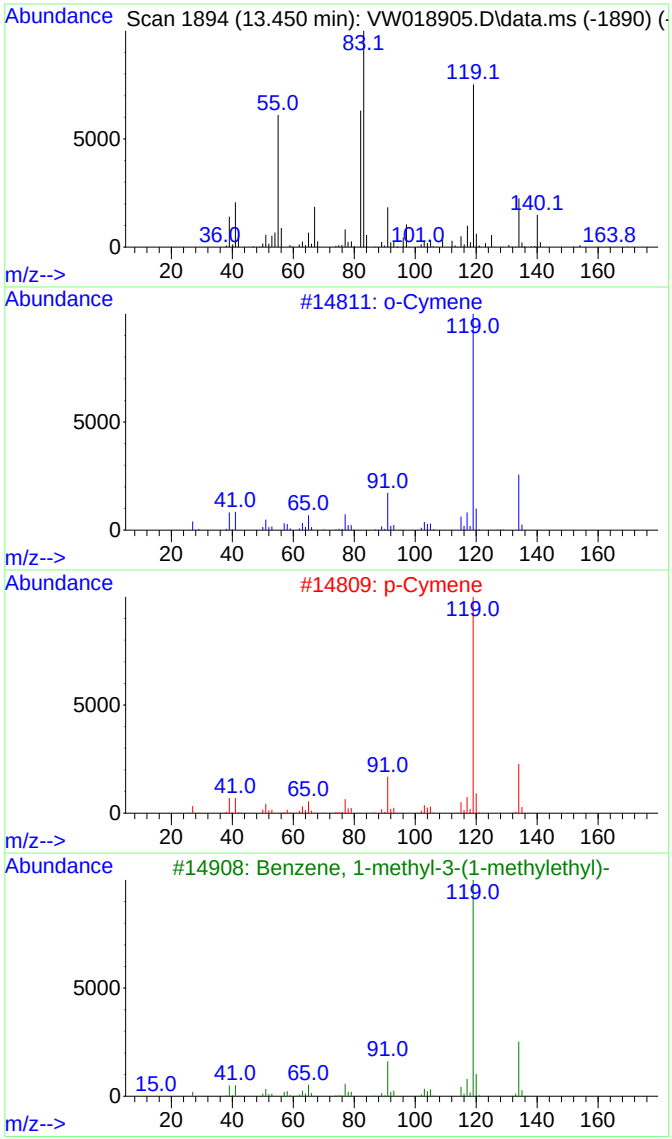
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

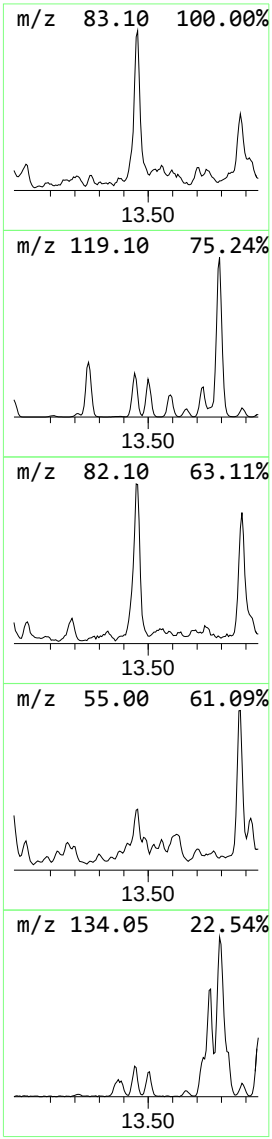
**********

Peak Number 21 o-Cymene Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.450 | 9.79 ug/L | 489795 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | o-Cymene | 134 | C10H14 | 000527-84-4 | 83 |
| 2 | p-Cymene | 134 | C10H14 | 000099-87-6 | 80 |
| 3 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 80 |
| 4 | Cyclohexane, butyl- | 140 | C10H20 | 001678-93-9 | 50 |
| 5 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 49 |



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Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

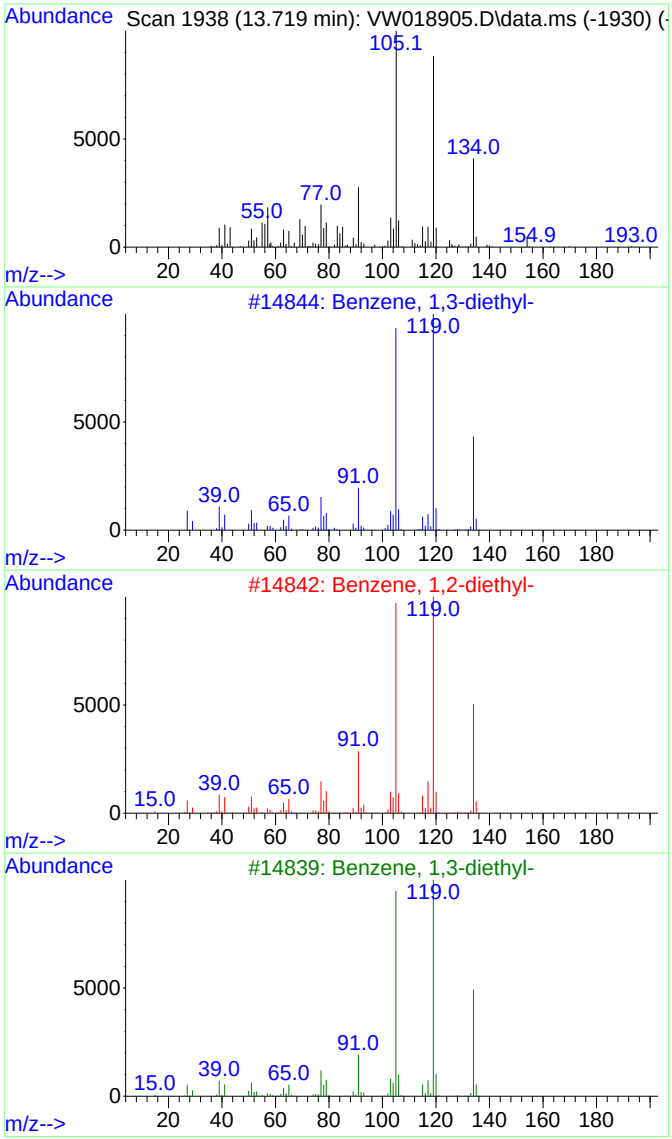
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

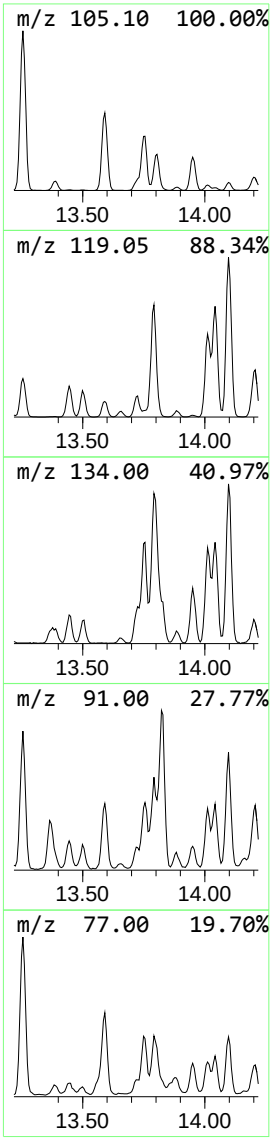
**********

Peak Number 22 Benzene, 1,3-diethyl- Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.719 | 6.43 ug/L | 321954 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 96 |
| 2 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 94 |
| 3 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 93 |
| 4 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 93 |
| 5 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 93 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

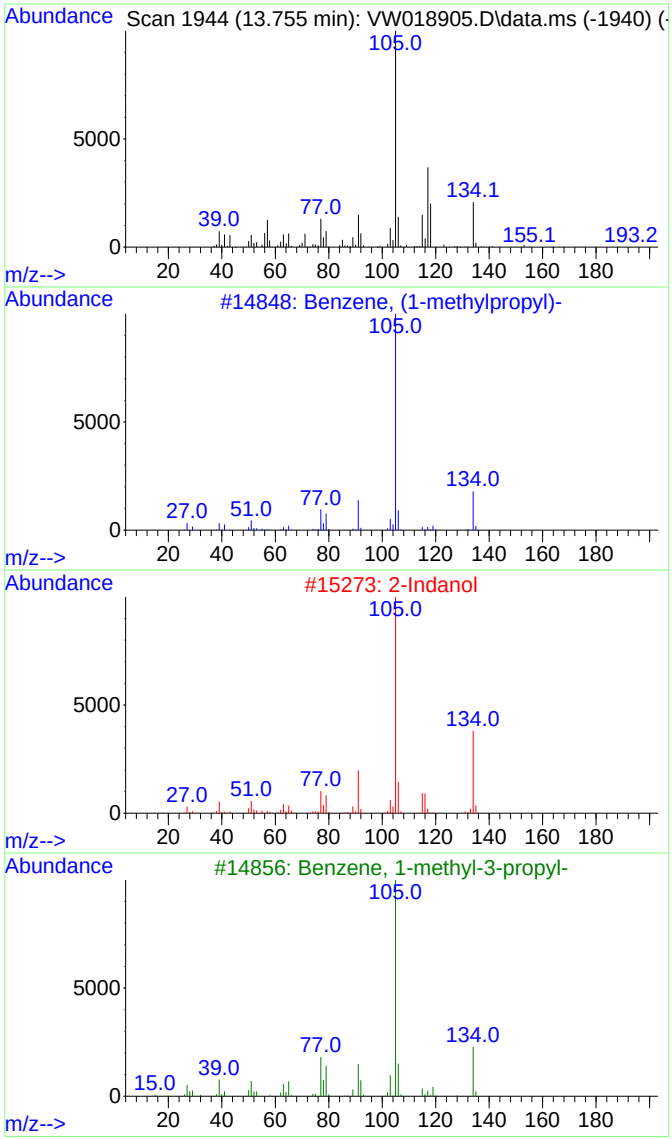
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

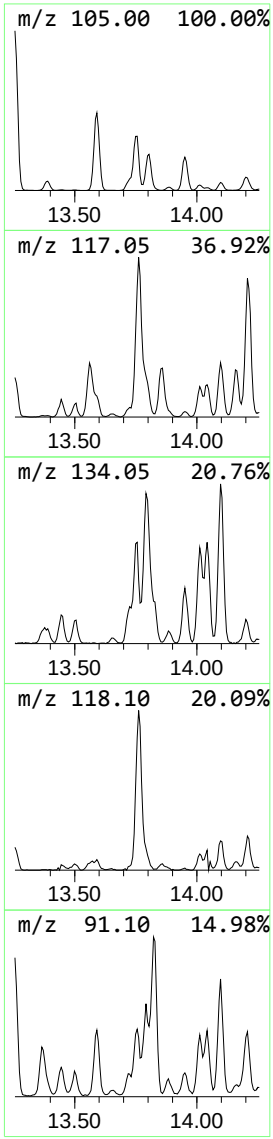
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 23 Benzene, (1-methylpropyl)- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.755 | 16.47 ug/L | 823972 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methylpropyl)- | 134 | C10H14 | 000135-98-8 | 55 |
| 2 | 2-Indanol | 134 | C9H10O | 004254-29-9 | 49 |
| 3 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 49 |
| 4 | Benzene, (1-methylpropyl)- | 134 | C10H14 | 000135-98-8 | 49 |
| 5 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 46 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

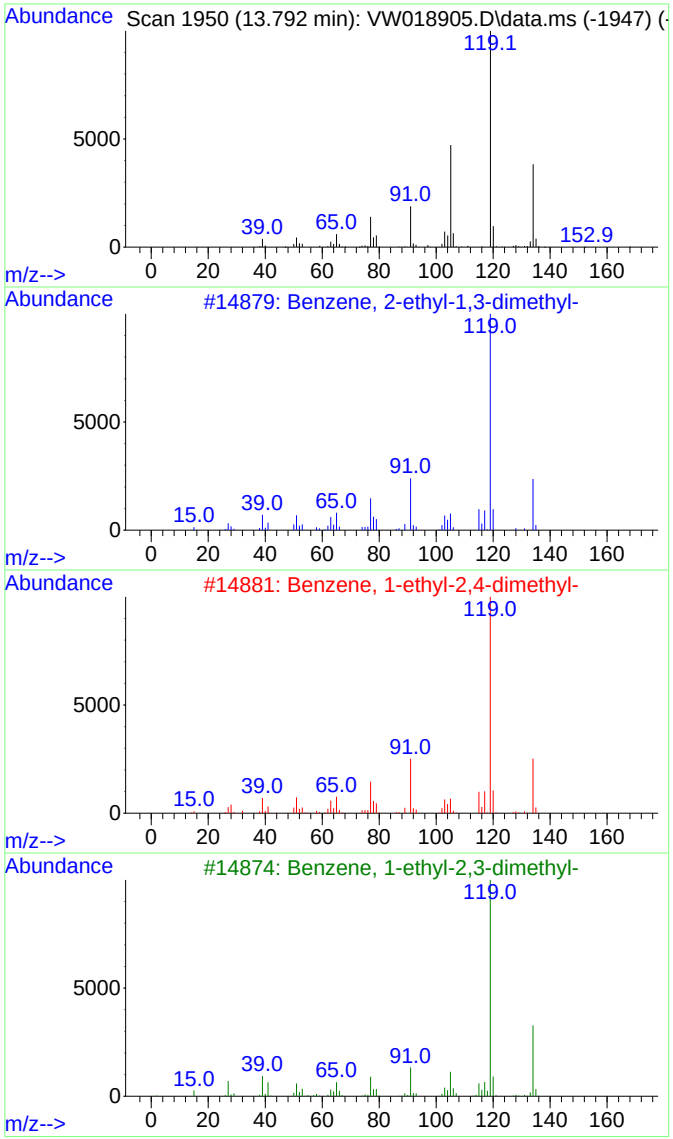
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

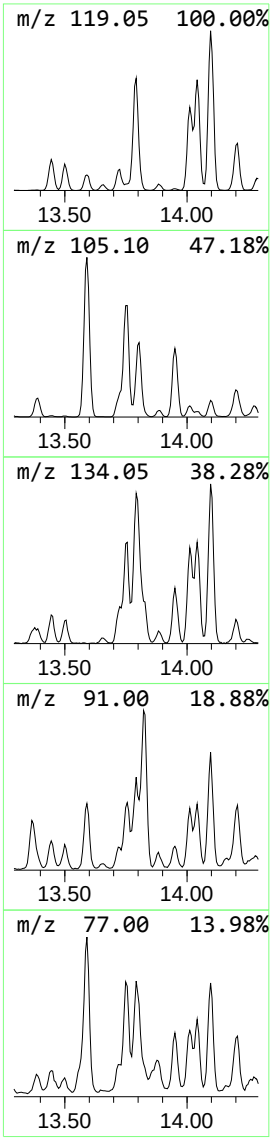
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 24 Benzene, 2-ethyl-1,3-dimethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.792 | 15.71 ug/L | 786097 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 91 |
| 2 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 91 |
| 3 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |
| 4 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 91 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 90 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

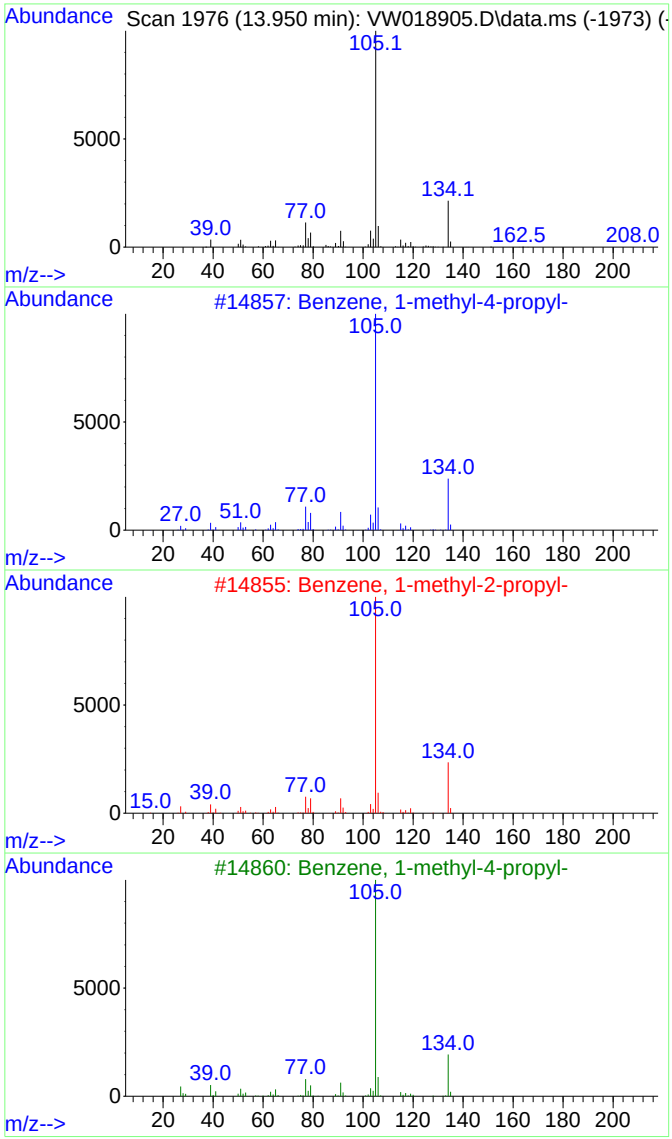
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

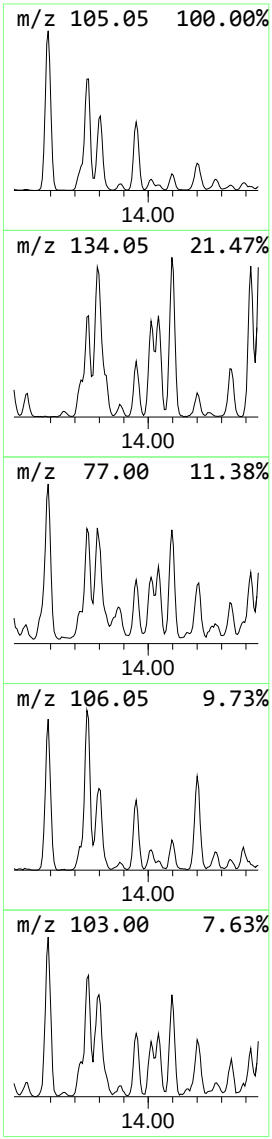
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 25 Benzene, 1-methyl-4-propyl- Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.950 | 5.26 ug/L | 263428 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 94 |
| 2 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 91 |
| 3 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |
| 4 | Benzene, (1-methylpropyl)- | 134 | C10H14 | 000135-98-8 | 91 |
| 5 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 90 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

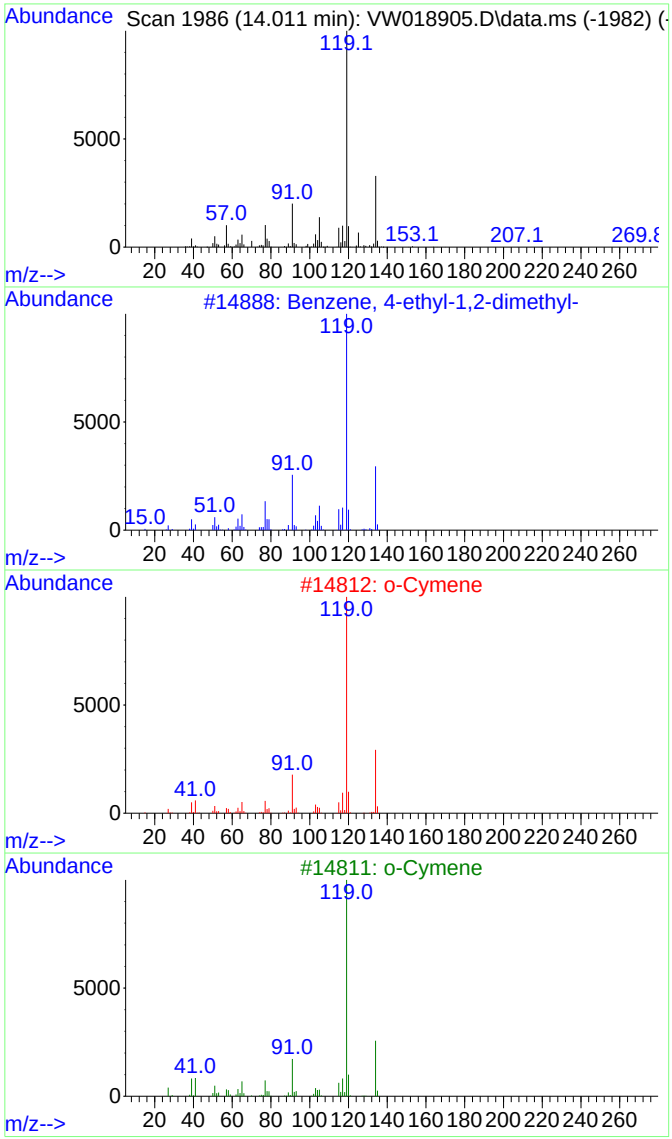
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

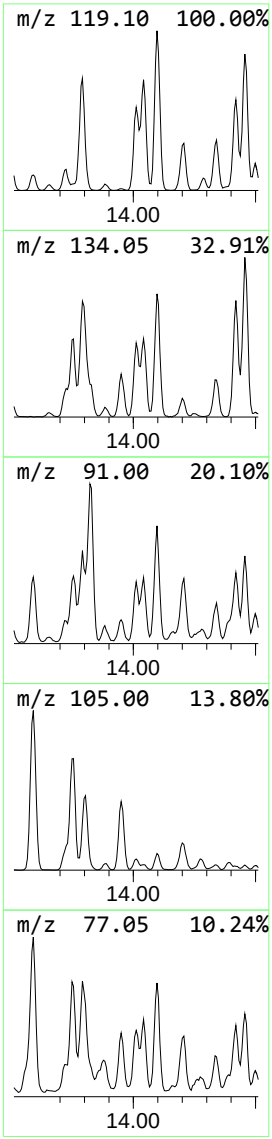
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 26 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.011 | 8.64 ug/L | 432425 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 96 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 4 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 95 |
| 5 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 94 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

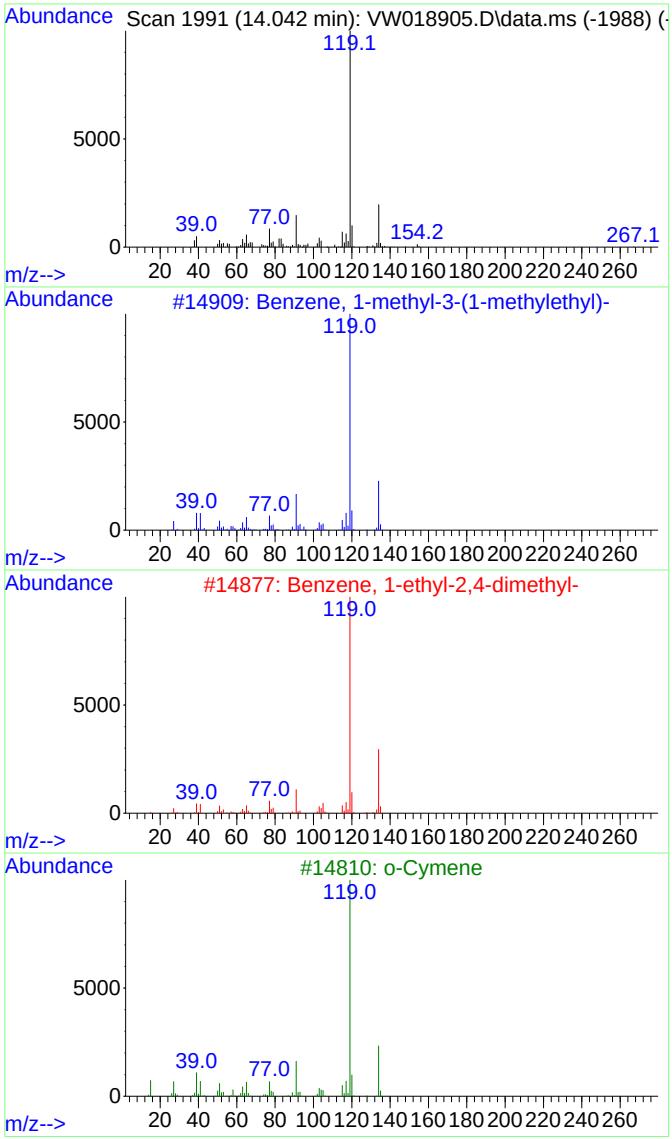
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

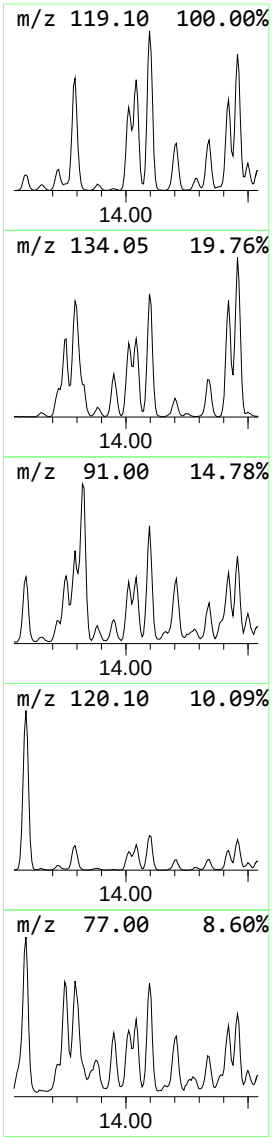
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 27 Benzene, 1-methyl-3-(1-meth... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.042 | 10.82 ug/L | 541430 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 94 |
| 2 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 94 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 91 |
| 4 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |
| 5 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

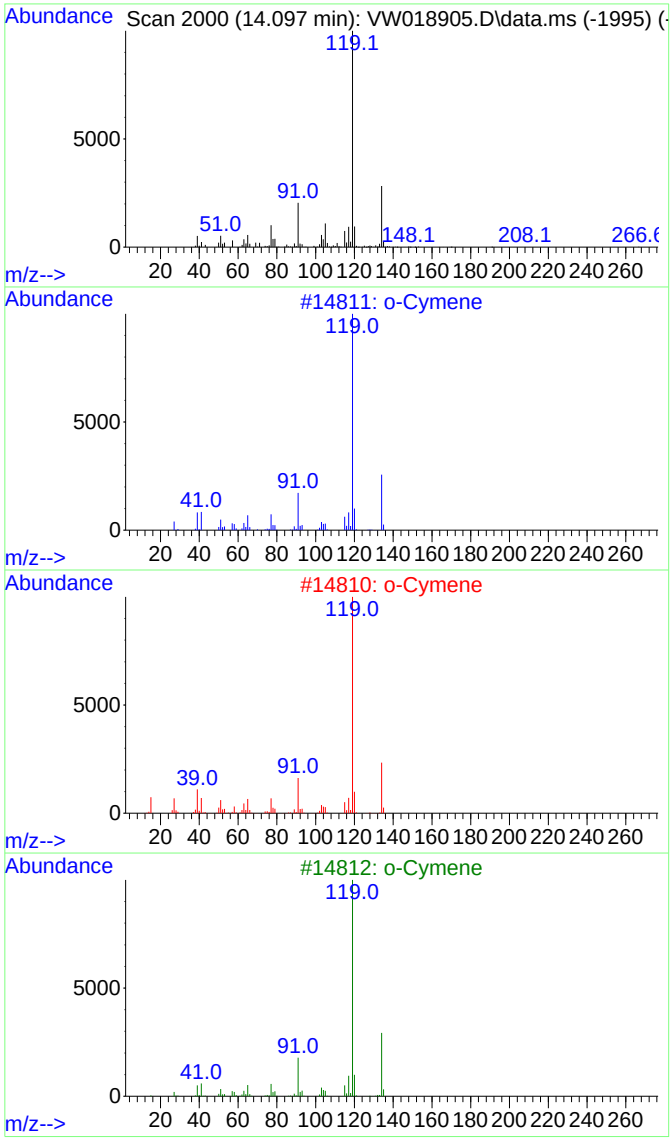
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

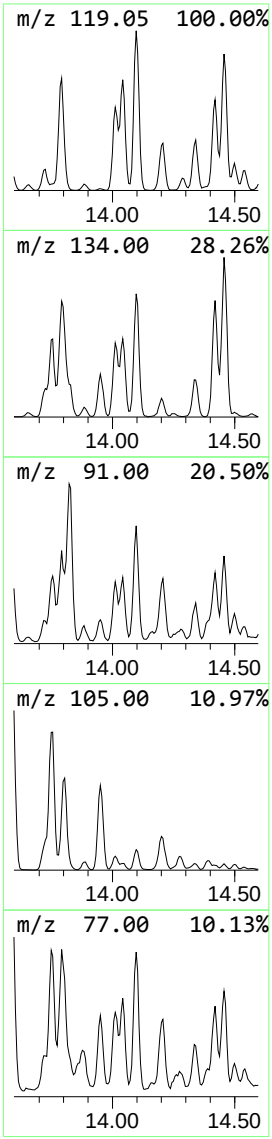
**********

Peak Number 28 unknown-02 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.097 | 15.23 ug/L | 762166 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |
| 4 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 94 |
| 5 | p-Cymene | 134 | C10H14 | 000099-87-6 | 94 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

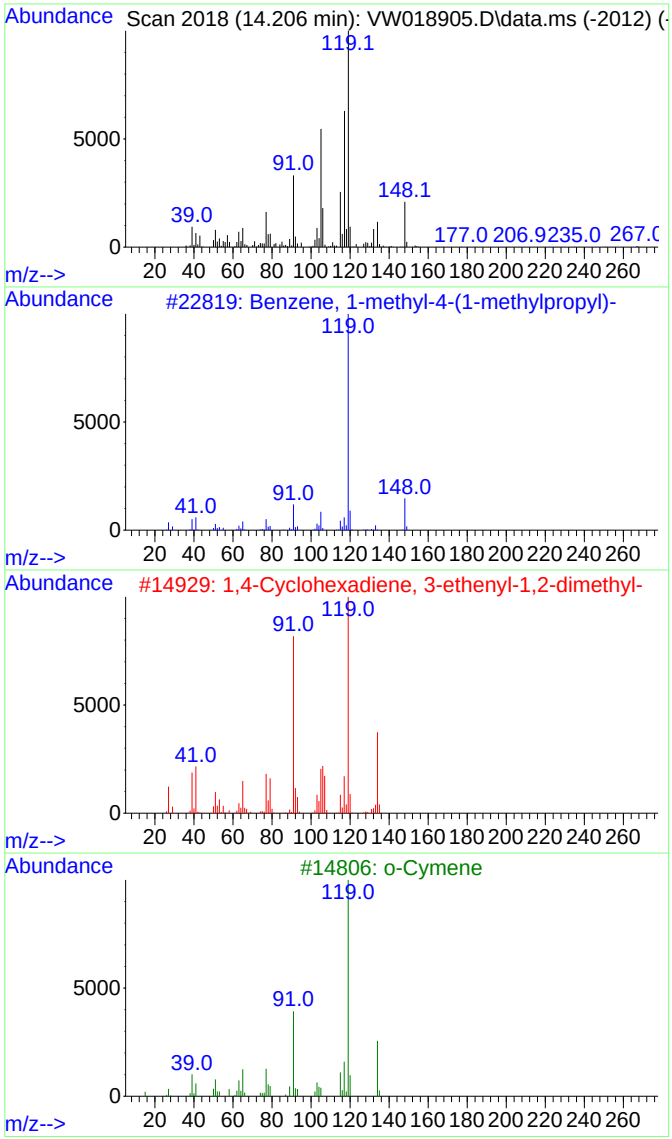
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

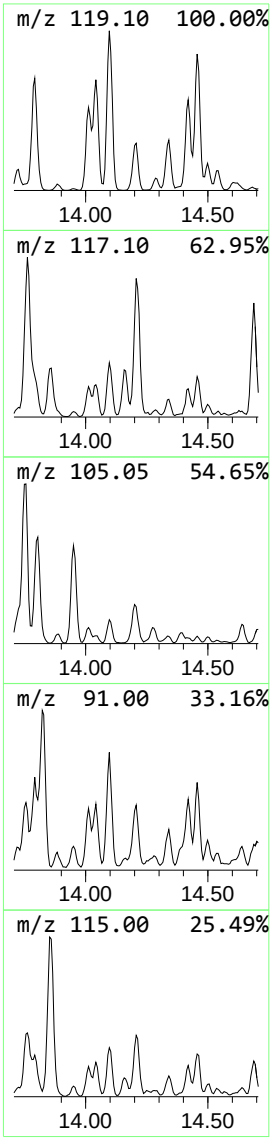
**********

Peak Number 29 unknown-03 Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.206 | 10.70 ug/L | 535654 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16 | 001595-16-0 | 47 |
| 2 | 1,4-Cyclohexadiene, 3-ethenyl-1,... | 134 | C10H14 | 062338-57-2 | 47 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 46 |
| 4 | 1,3,8-p-Menthatriene | 134 | C10H14 | 018368-95-1 | 43 |
| 5 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 43 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

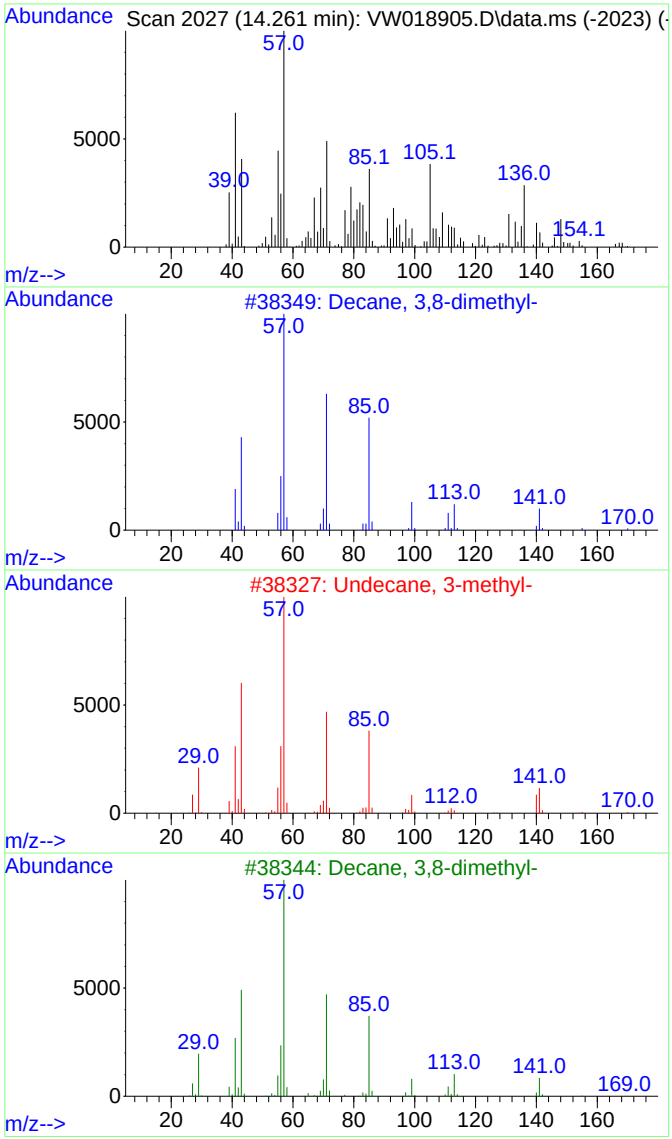
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

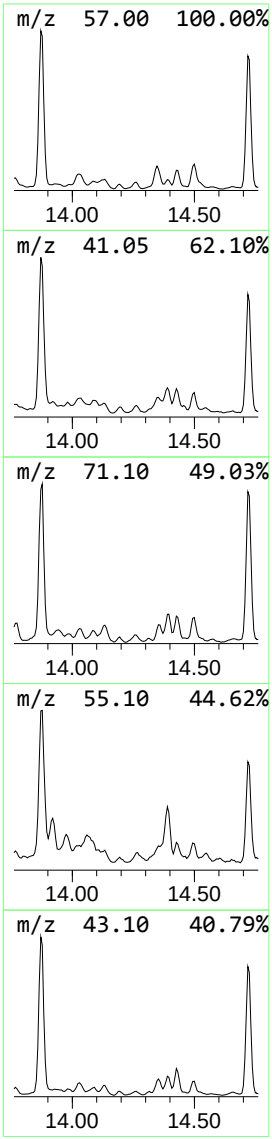
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 30 (DEL) Alkane: Straight-Chai... Concentration Rank 35

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.261 | 4.60 ug/L | 230037 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3,8-dimethyl- | 170 | C12H26 | 017312-55-9 | 46 |
| 2 | Undecane, 3-methyl- | 170 | C12H26 | 001002-43-3 | 43 |
| 3 | Decane, 3,8-dimethyl- | 170 | C12H26 | 017312-55-9 | 38 |
| 4 | Tritetracontane | 605 | C43H88 | 007098-21-7 | 38 |
| 5 | Heptacosane, 1-chloro- | 414 | C27H55Cl | 062016-79-9 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

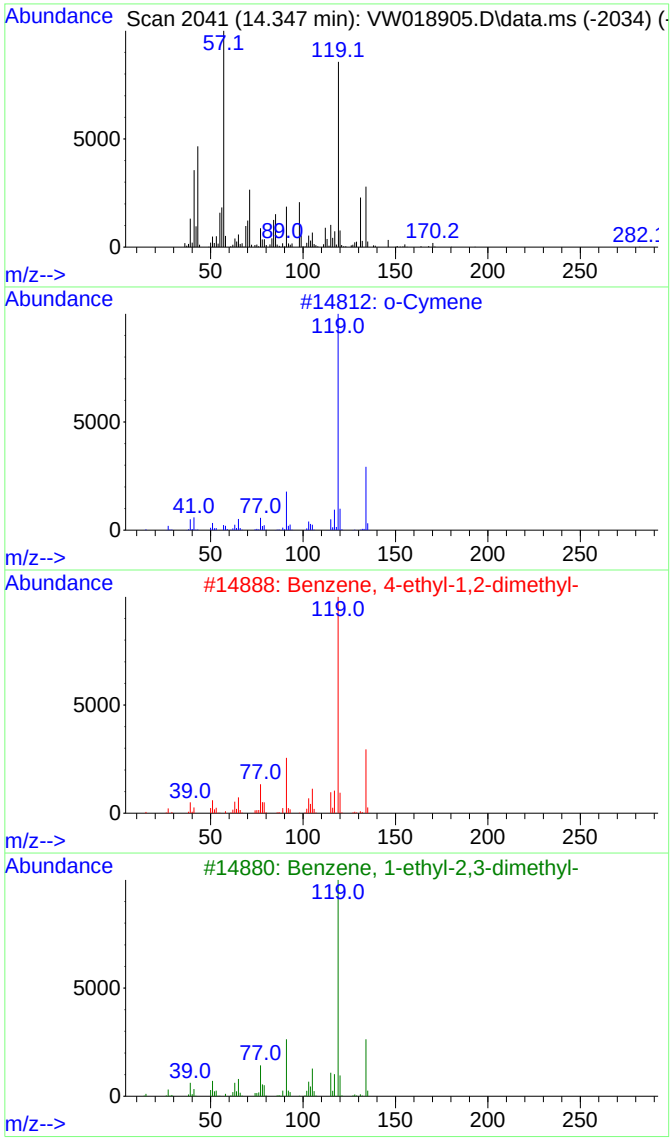
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

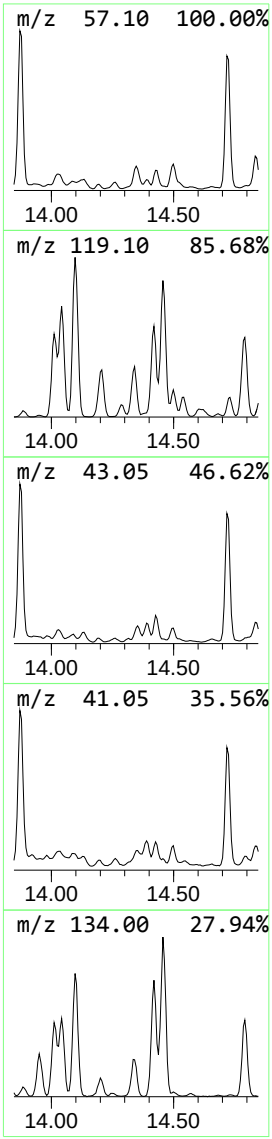
**********

Peak Number 31 unknown-04 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.347 | 12.70 ug/L | 635512 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | o-Cymene | 134 | C10H14 | 000527-84-4 | 86 |
| 2 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 64 |
| 3 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 64 |
| 4 | p-Cymene | 134 | C10H14 | 000099-87-6 | 50 |
| 5 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 50 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

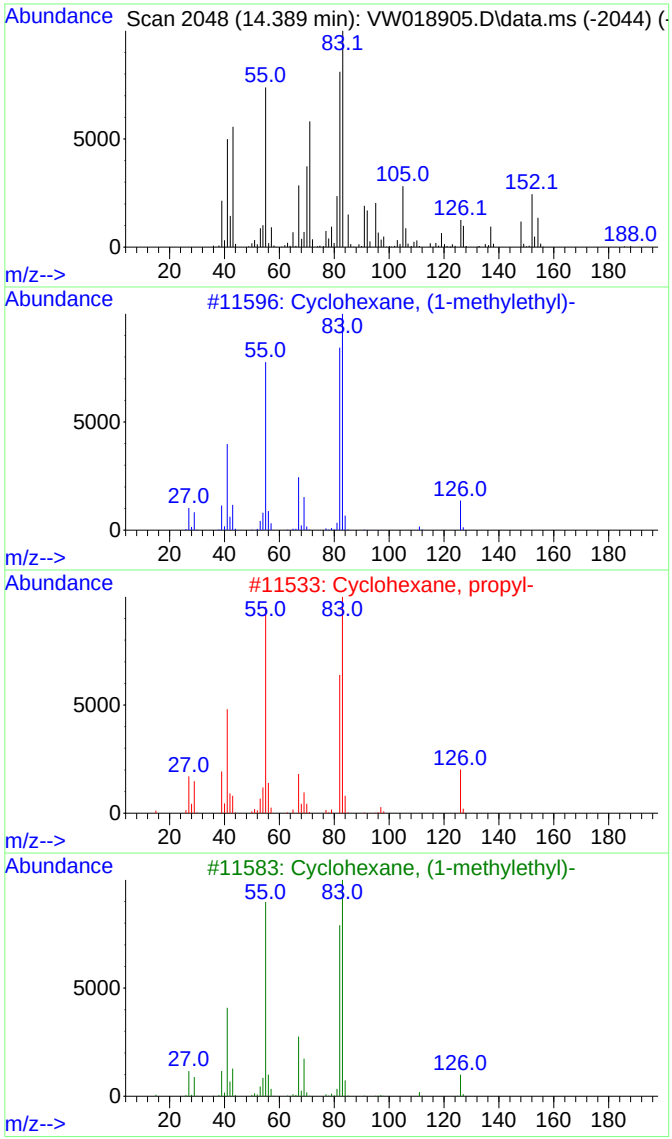
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

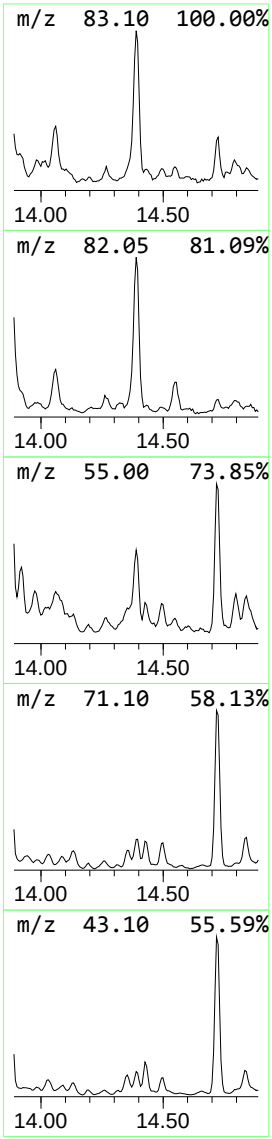
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 32 (DEL) Alkane: Cyclic14.389 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.389 | 15.02 ug/L | 751499 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 49 |
| 2 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 47 |
| 3 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 46 |
| 4 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 43 |
| 5 | Cyclohexane, butyl- | 140 | C10H20 | 001678-93-9 | 43 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

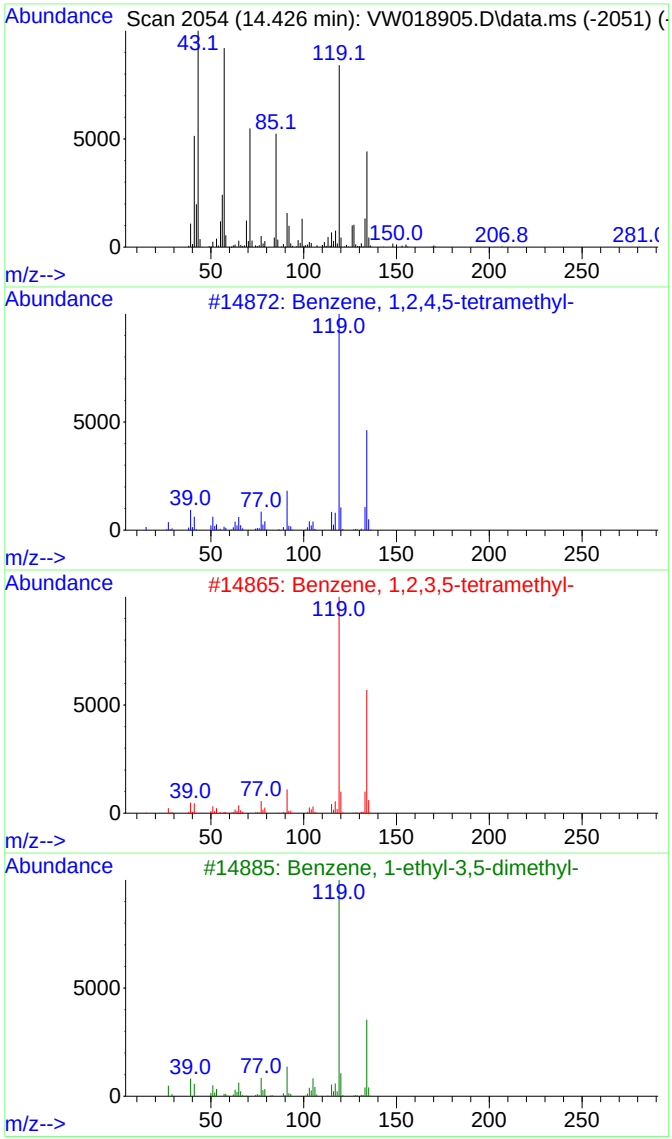
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

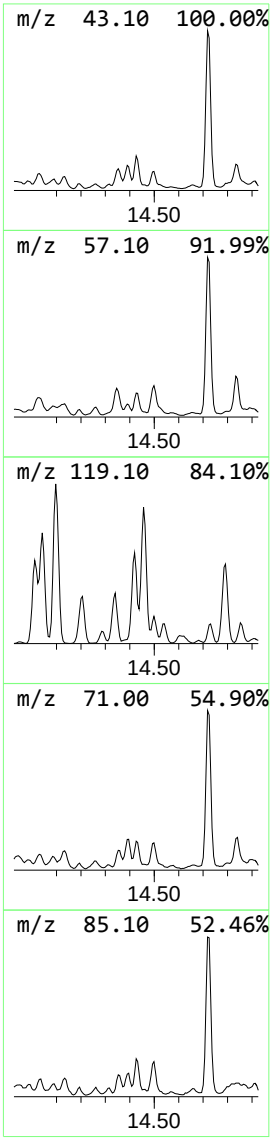
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 33 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.426 | 16.95 ug/L | 848418 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 50 |
| 2 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 46 |
| 3 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 46 |
| 4 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 45 |
| 5 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 45 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

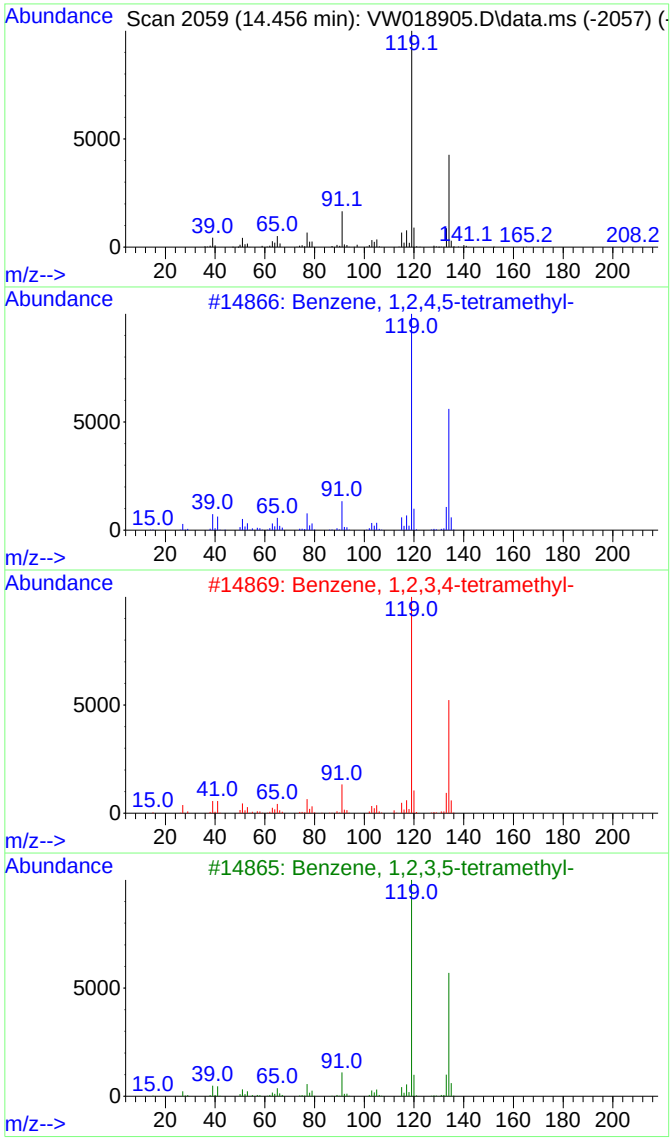
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

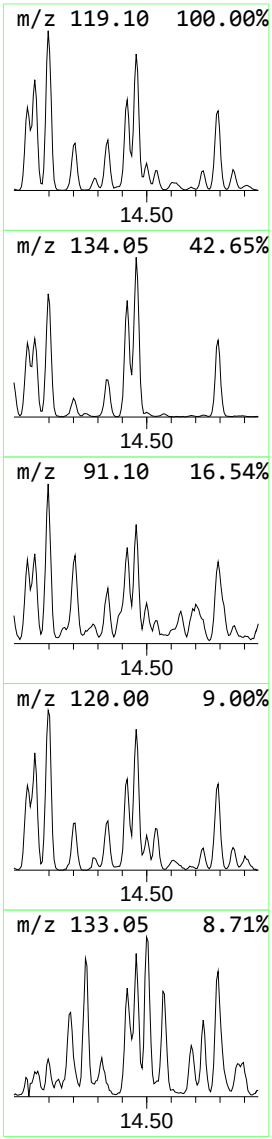
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 34 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.456 | 12.10 ug/L | 605675 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 94 |
| 2 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 94 |
| 3 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 94 |
| 4 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 94 |
| 5 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

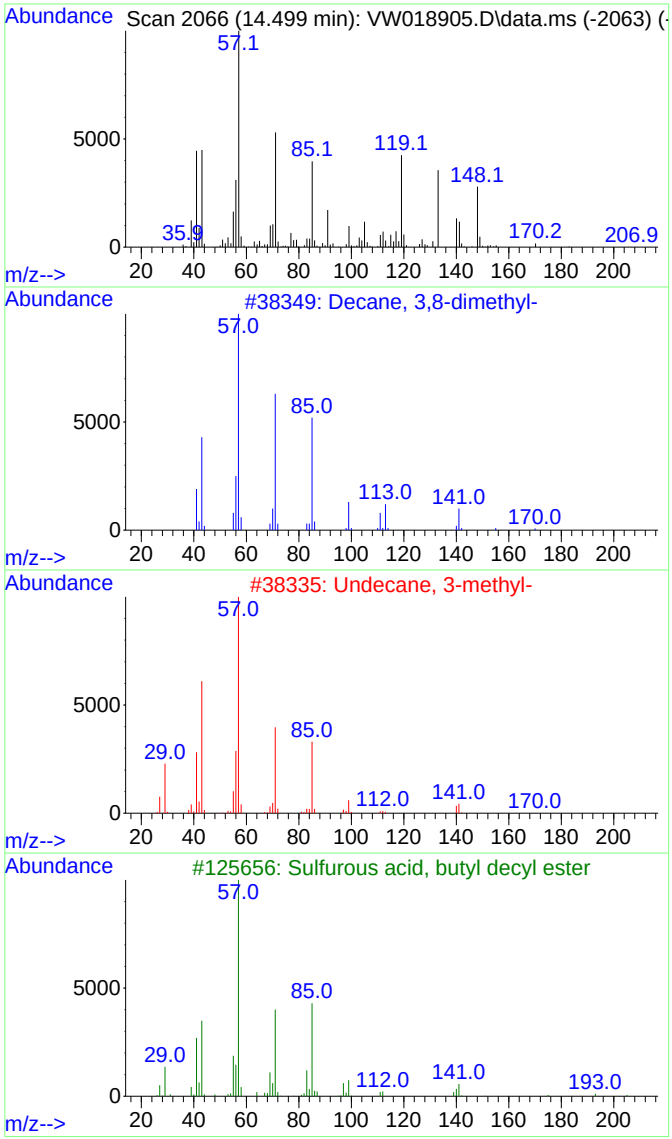
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

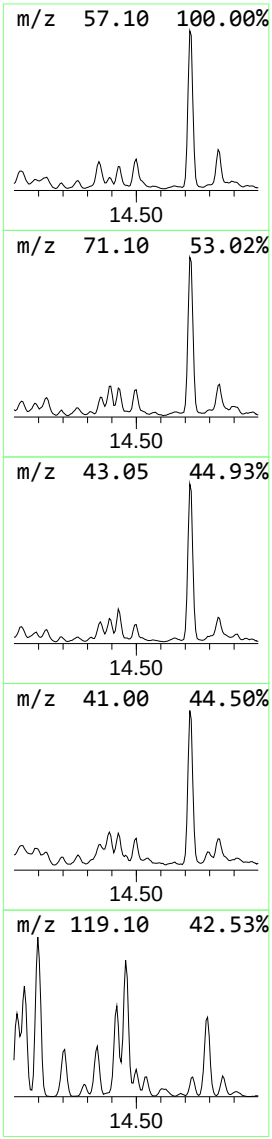
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 35 (DEL) Alkane: Straight-Chai... Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.499 | 9.58 ug/L | 479569 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3,8-dimethyl- | 170 | C12H26 | 017312-55-9 | 60 |
| 2 | Undecane, 3-methyl- | 170 | C12H26 | 001002-43-3 | 50 |
| 3 | Sulfurous acid, butyl decyl ester | 278 | C14H30O3S | 1000309-17-7 | 46 |
| 4 | 5-Ethyldecane | 170 | C12H26 | 017302-36-2 | 46 |
| 5 | Undecane, 3,9-dimethyl- | 184 | C13H28 | 017301-31-4 | 43 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

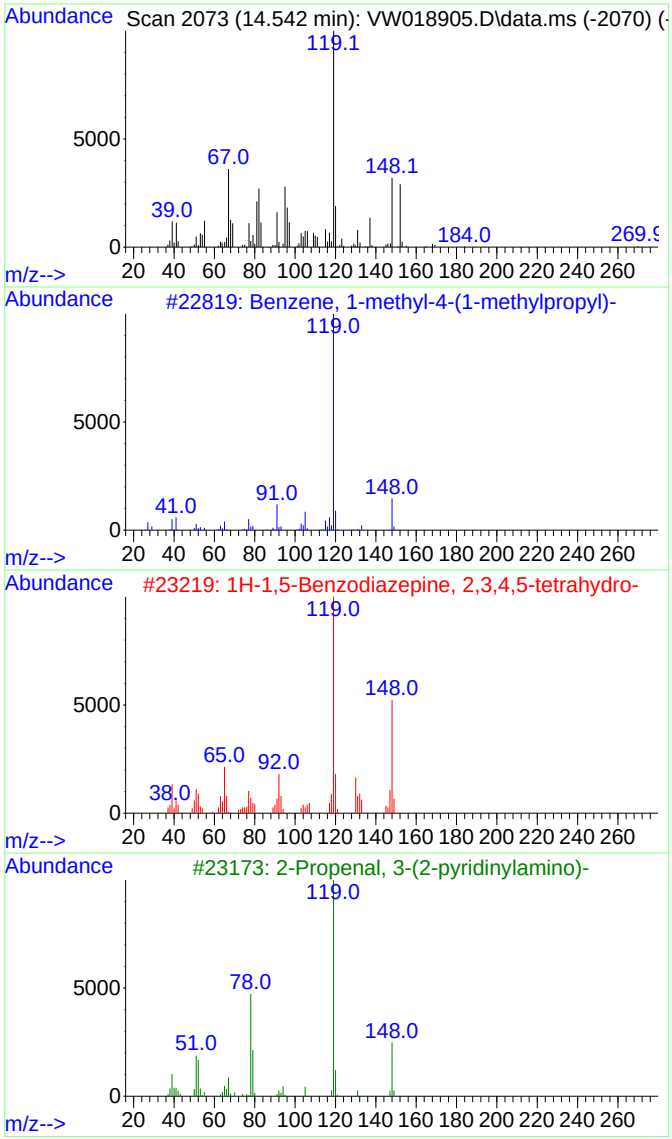
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

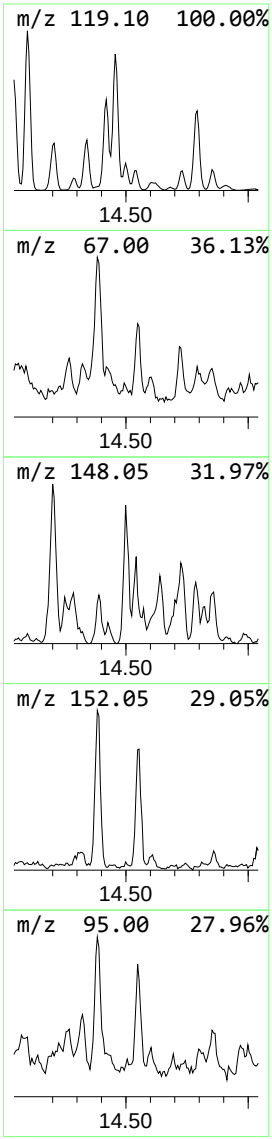
**********

Peak Number 36 unknown-05 Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.542 | 4.08 ug/L | 204227 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16 | 001595-16-0 | 43 |
| 2 | 1H-1,5-Benzodiazepine, 2,3,4,5-t... | 148 | C9H12N2 | 006516-89-8 | 38 |
| 3 | 2-Propenal, 3-(2-pyridinylamino)- | 148 | C8H8N2O | 068970-82-1 | 38 |
| 4 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 38 |
| 5 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

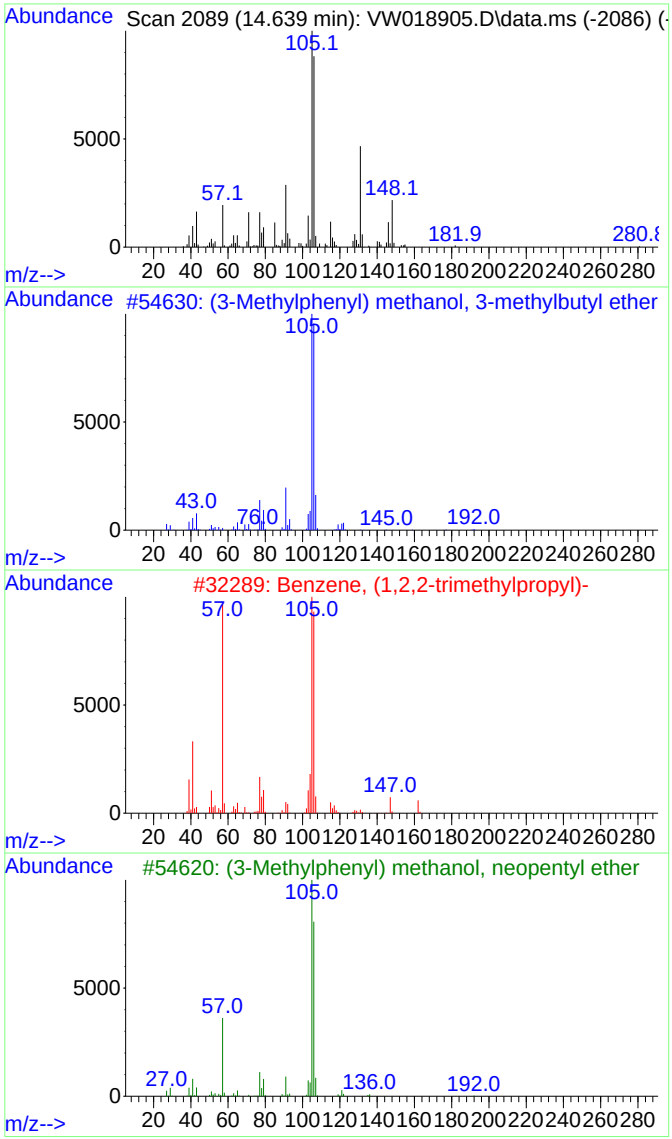
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

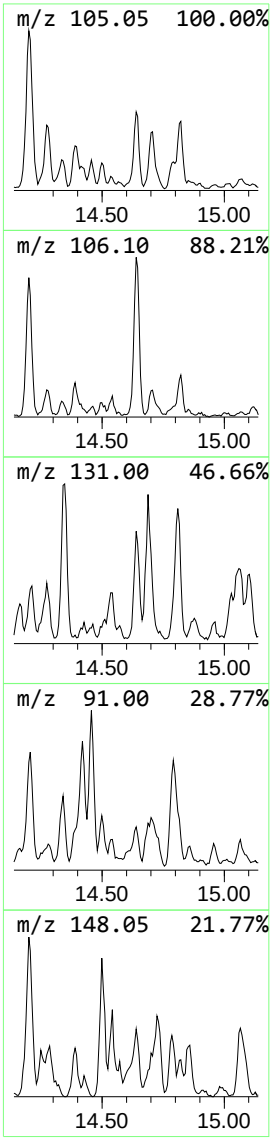
**********

Peak Number 37 unknown-06 Concentration Rank 53

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.639 | 1.48 ug/L | 74139 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | (3-Methylphenyl) methanol, 3-met... | 192 | C13H20O | 1000374-58-6 | 38 |
| 2 | Benzene, (1,2,2-trimethylpropyl)- | 162 | C12H18 | 019262-20-5 | 35 |
| 3 | (3-Methylphenyl) methanol, neope... | 192 | C13H20O | 1000374-44-1 | 32 |
| 4 | Benzene, (1-cyclohexylethyl)- | 188 | C14H20 | 004413-16-5 | 32 |
| 5 | Benzene, (1-cyclohexylethyl)- | 188 | C14H20 | 004413-16-5 | 32 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

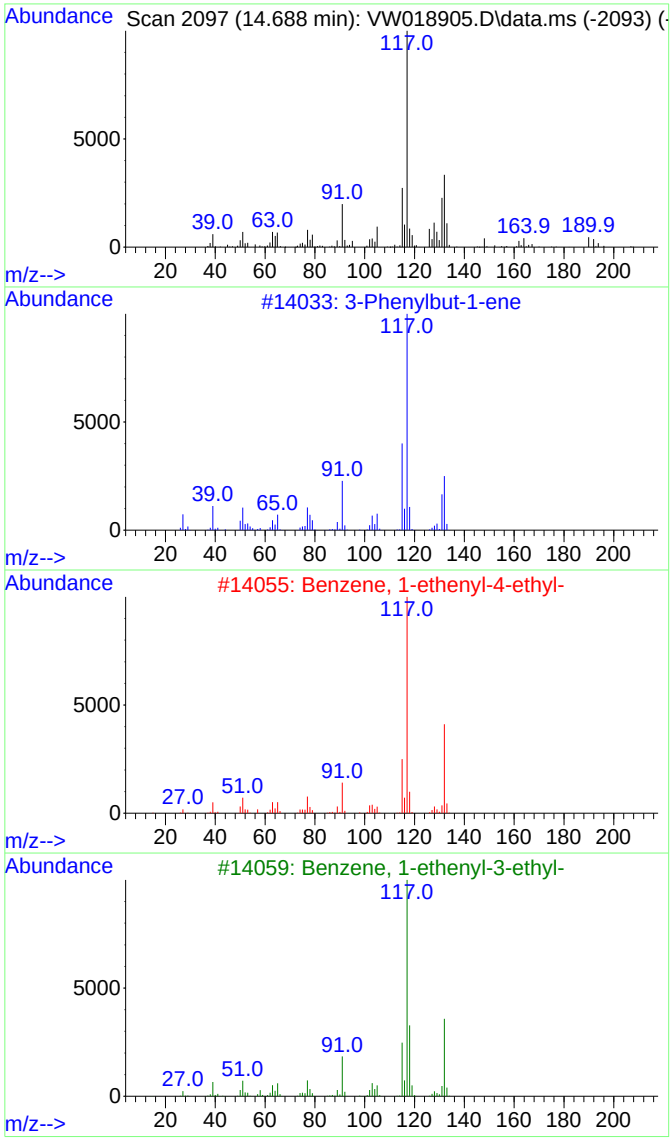
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

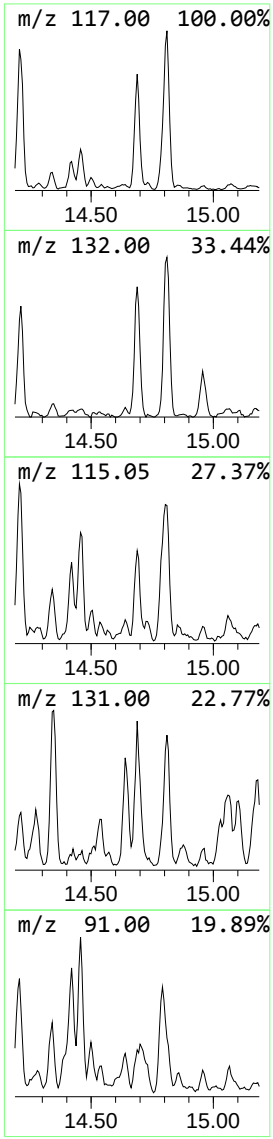
**********

Peak Number 38 3-Phenylbut-1-ene Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.688 | 3.36 ug/L | 168019 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 74 |
| 2 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 70 |
| 3 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 64 |
| 4 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 62 |
| 5 | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12 | 000768-49-0 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

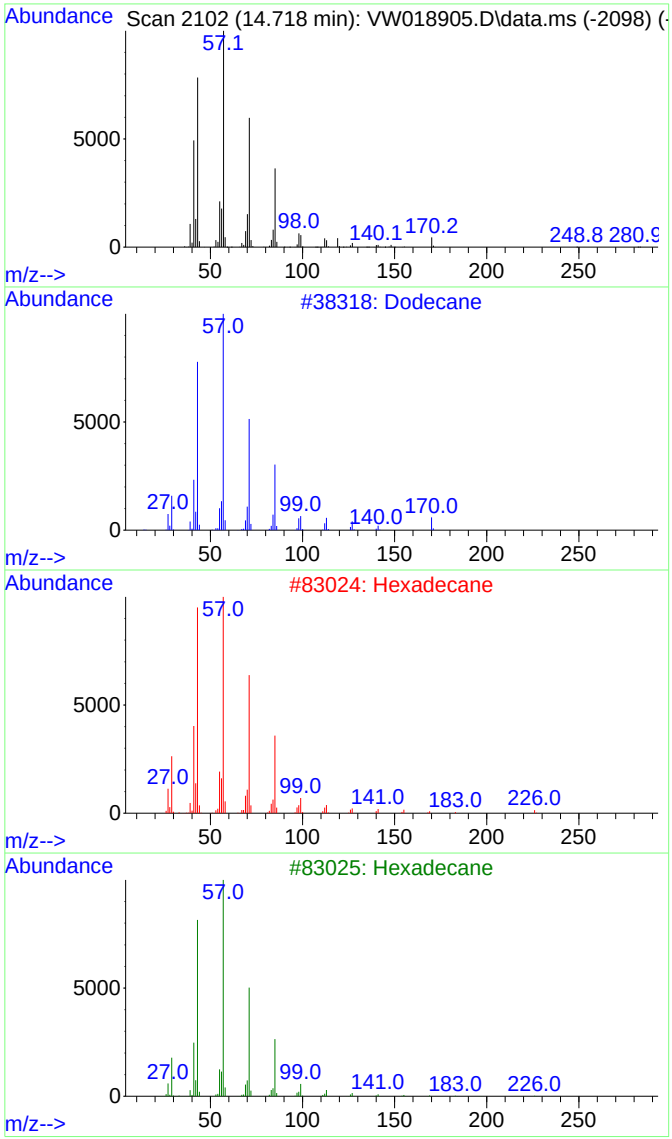
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

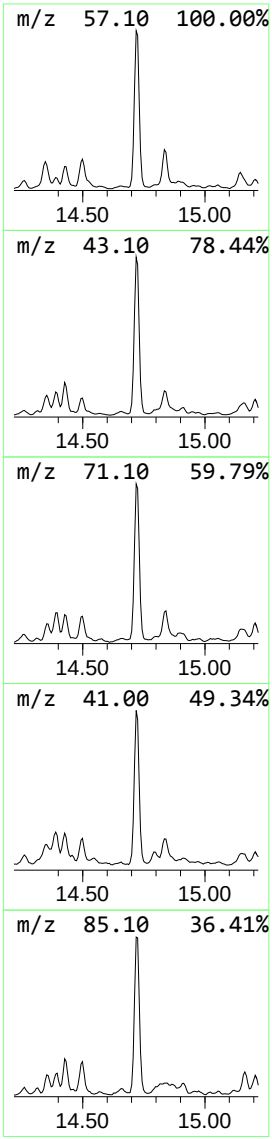
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 39 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.719 | 41.91 ug/L | 2097020 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane | 170 | C12H26 | 000112-40-3 | 87 |
| 2 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 80 |
| 4 | Decane, 2,3,5-trimethyl- | 184 | C13H28 | 062238-11-3 | 72 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BG7F3

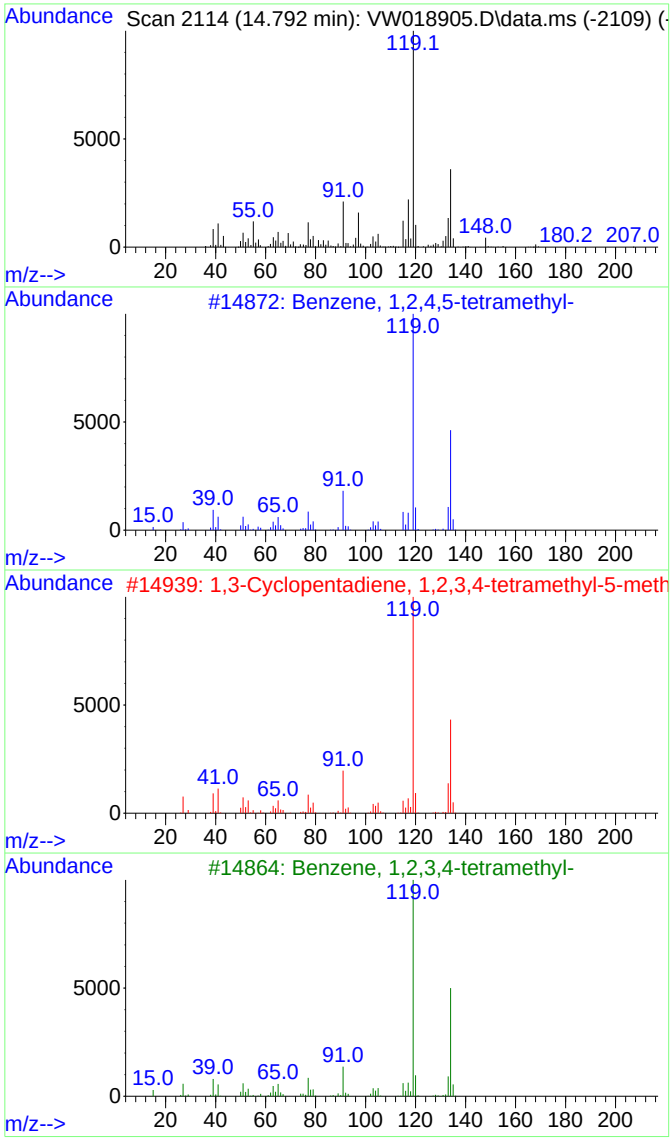
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

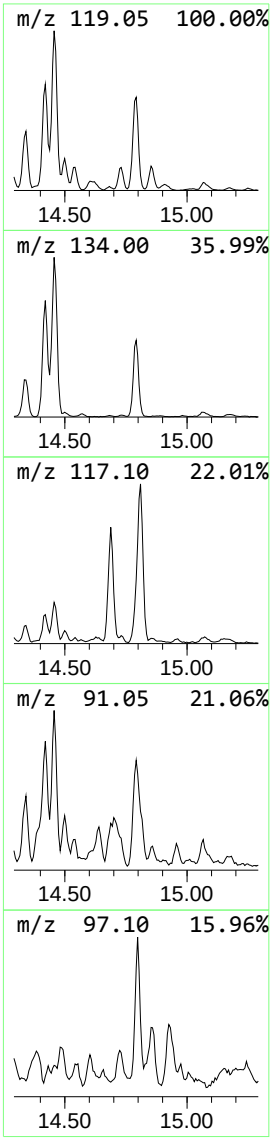
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 40 1,3-Cyclopentadiene, 1,2,3,... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.792 | 18.37 ug/L | 919416 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 94 |
| 2 | 1,3-Cyclopentadiene, 1,2,3,4-tet... | 134 | C10H14 | 076089-59-3 | 93 |
| 3 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 81 |
| 4 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 81 |
| 5 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 81 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

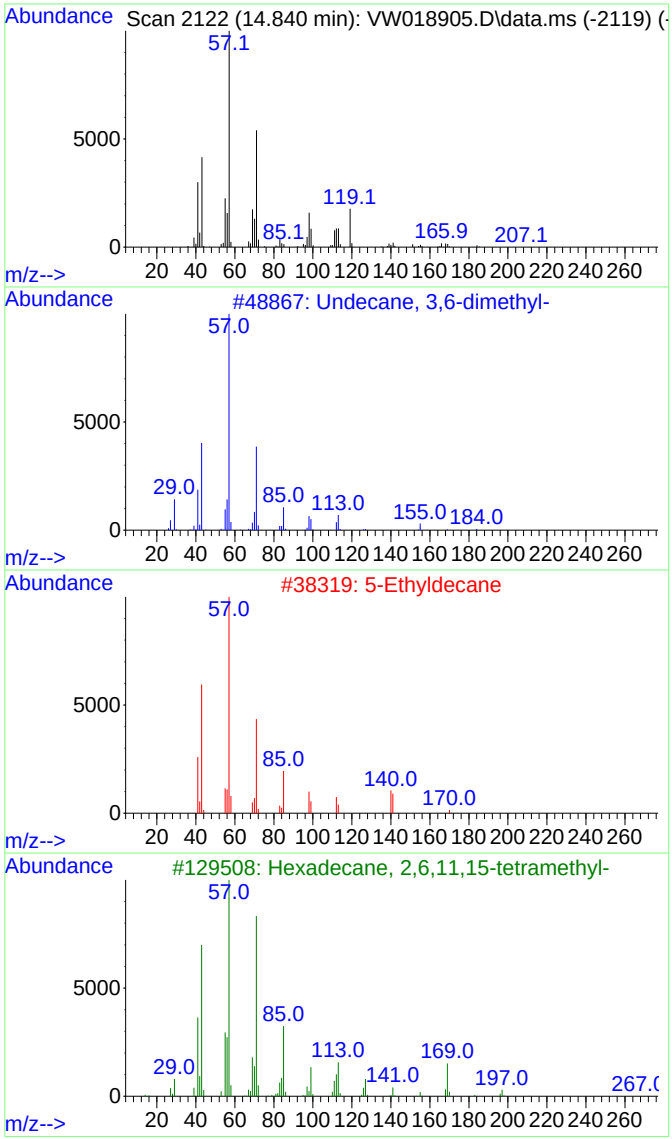
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

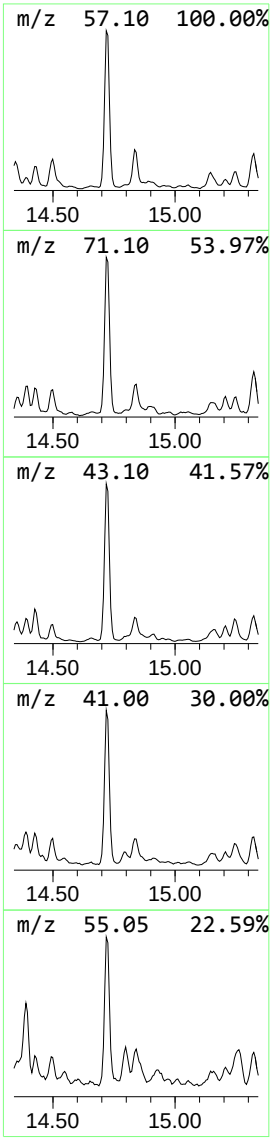
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 41 (DEL) Alkane: Straight-Chai... Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.840 | 9.61 ug/L | 480649 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane, 3,6-dimethyl- | 184 | C13H28 | 017301-28-9 | 64 |
| 2 | 5-Ethyldecane | 170 | C12H26 | 017302-36-2 | 59 |
| 3 | Hexadecane, 2,6,11,15-tetramethyl- | 282 | C20H42 | 000504-44-9 | 58 |
| 4 | Undecane, 6-ethyl- | 184 | C13H28 | 017312-60-6 | 58 |
| 5 | Heptadecane, 7-methyl- | 254 | C18H38 | 020959-33-5 | 53 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BG7F3

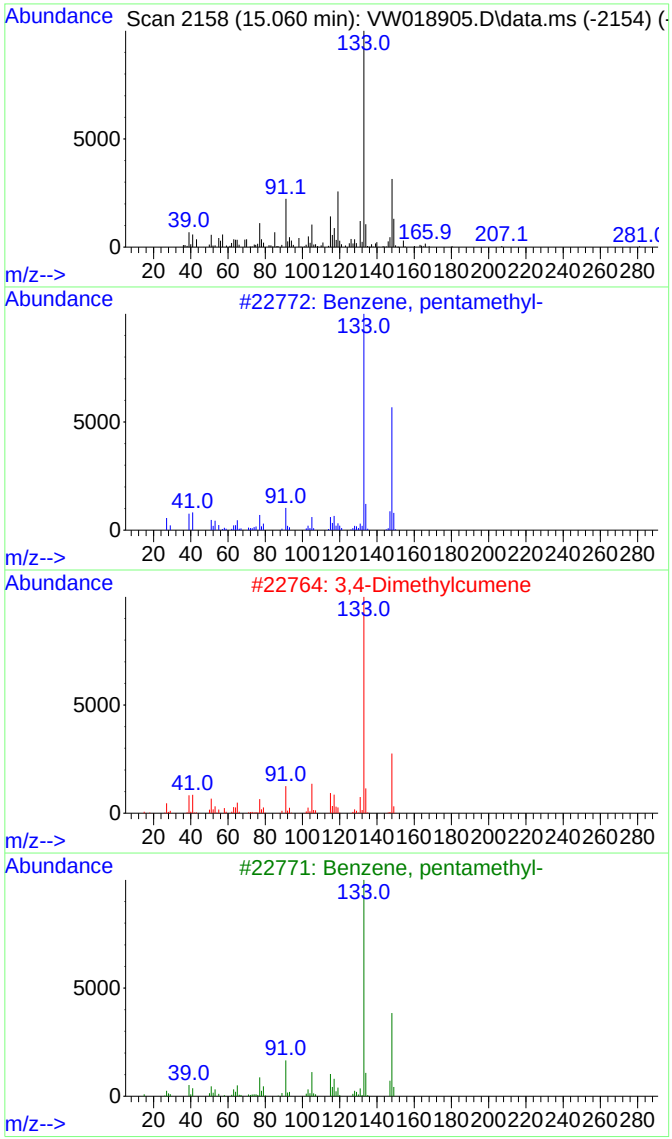
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

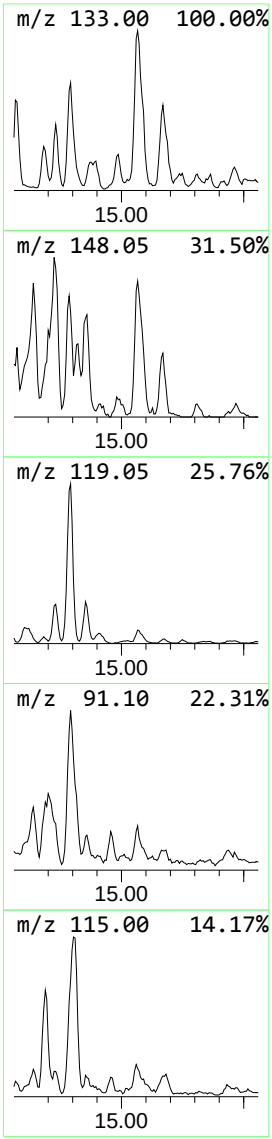
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 42 Benzene, pentamethyl- Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.060 | 3.12 ug/L | 156368 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 76 |
| 2 | 3,4-Dimethylcumene | 148 | C11H16 | 1000370-34-1 | 76 |
| 3 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 76 |
| 4 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 74 |
| 5 | Benzene, 1-ethyl-2,4,5-trimethyl- | 148 | C11H16 | 017851-27-3 | 74 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

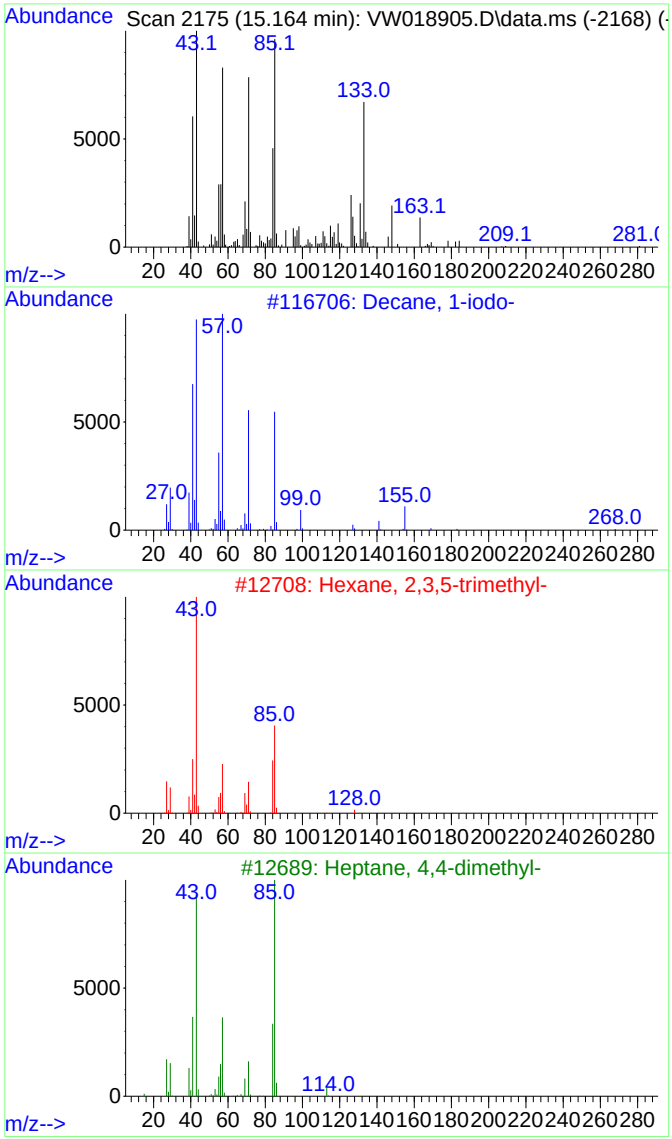
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

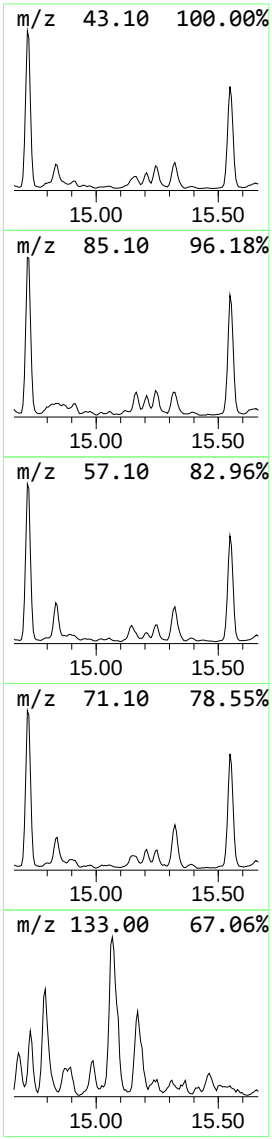
**********

Peak Number 43 unknown-07 Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.164 | 6.82 ug/L | 341333 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 1-iodo- | 268 | C10H21I | 002050-77-3 | 38 |
| 2 | Hexane, 2,3,5-trimethyl- | 128 | C9H20 | 001069-53-0 | 30 |
| 3 | Heptane, 4,4-dimethyl- | 128 | C9H20 | 001068-19-5 | 27 |
| 4 | 2-Bromononane | 206 | C9H19Br | 002216-35-5 | 27 |
| 5 | 3,4-dimethyl-5-phenyloxazolidine | 177 | C11H15NO | 1000378-93-9 | 22 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

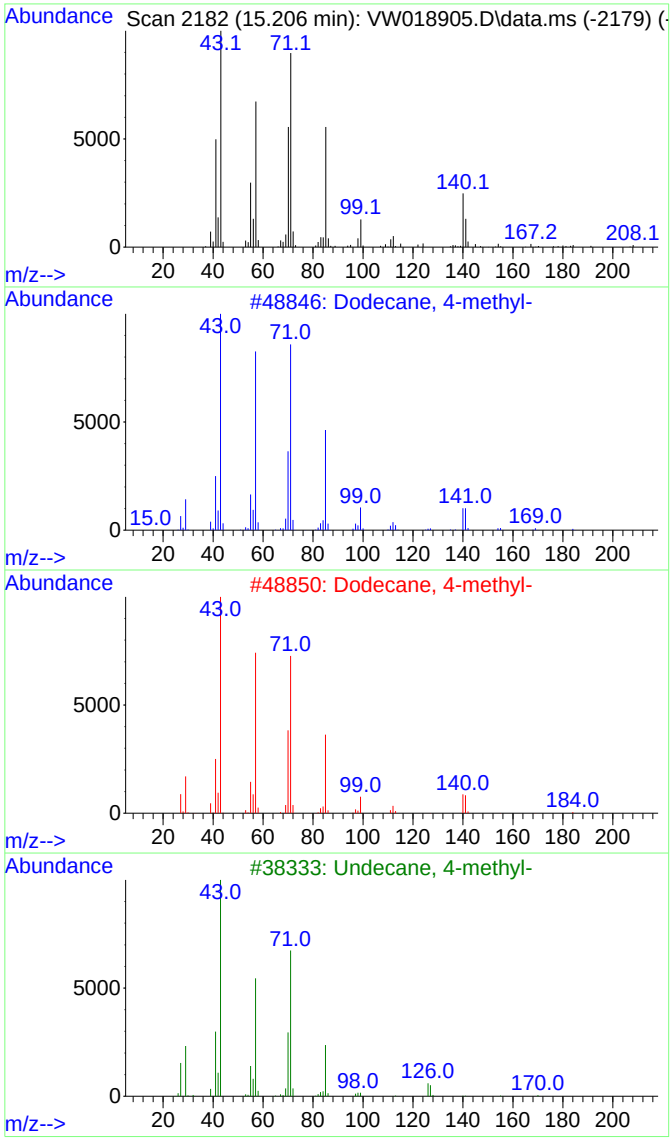
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

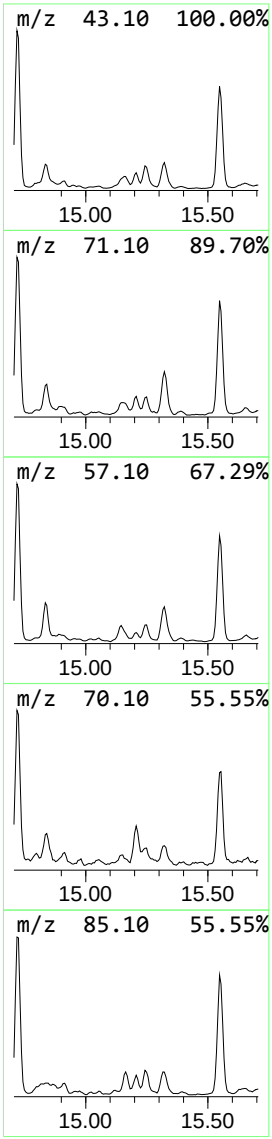
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 44 (DEL) Alkane: Straight-Chai... Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.206 | 3.87 ug/L | 193662 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 4-methyl- | 184 | C13H28 | 006117-97-1 | 94 |
| 2 | Dodecane, 4-methyl- | 184 | C13H28 | 006117-97-1 | 90 |
| 3 | Undecane, 4-methyl- | 170 | C12H26 | 002980-69-0 | 53 |
| 4 | Hexane, 3,3,4-trimethyl- | 128 | C9H20 | 016747-31-2 | 47 |
| 5 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 42 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

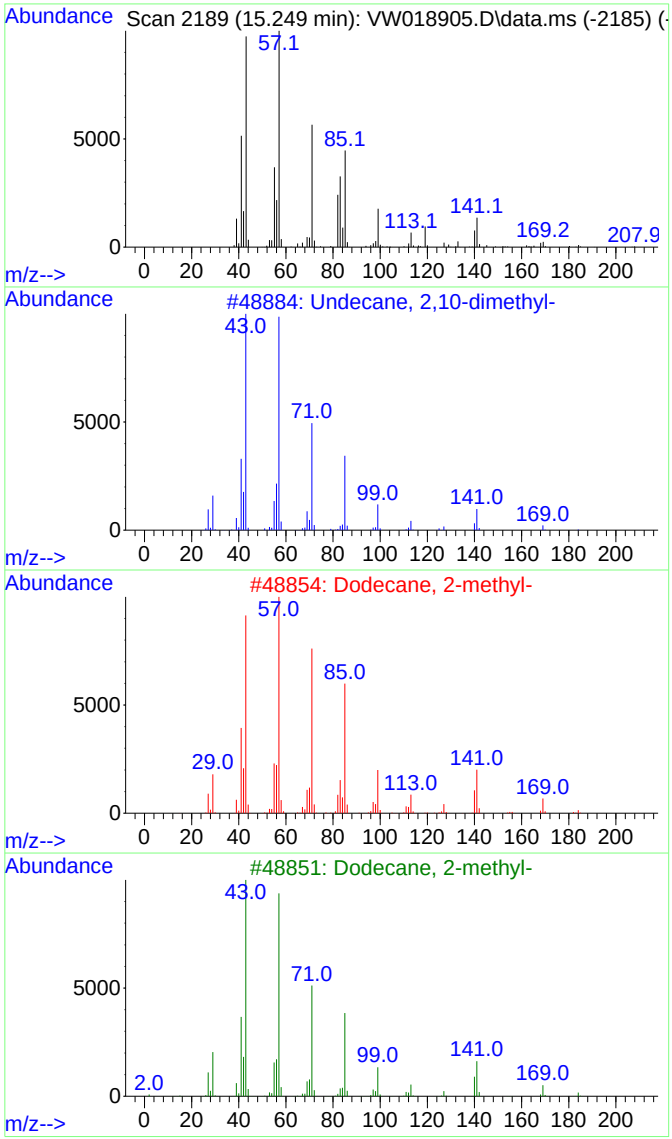
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

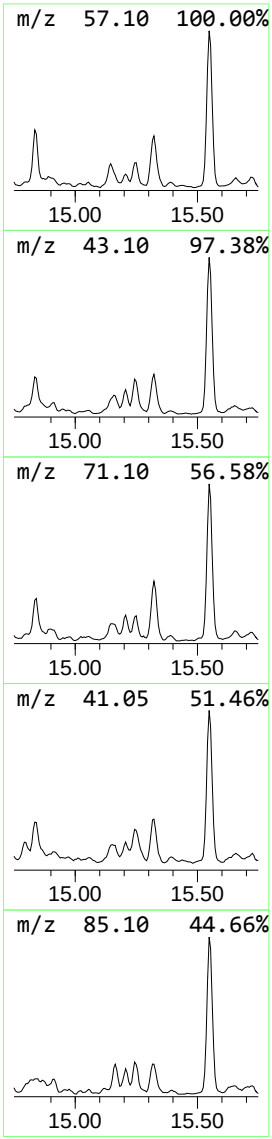
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 45 (DEL) Alkane: Straight-Chai... Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.249 | 8.34 ug/L | 417412 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane, 2,10-dimethyl- | 184 | C13H28 | 017301-27-8 | 86 |
| 2 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 76 |
| 3 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 53 |
| 4 | Tridecane | 184 | C13H28 | 000629-50-5 | 53 |
| 5 | Decane | 142 | C10H22 | 000124-18-5 | 49 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

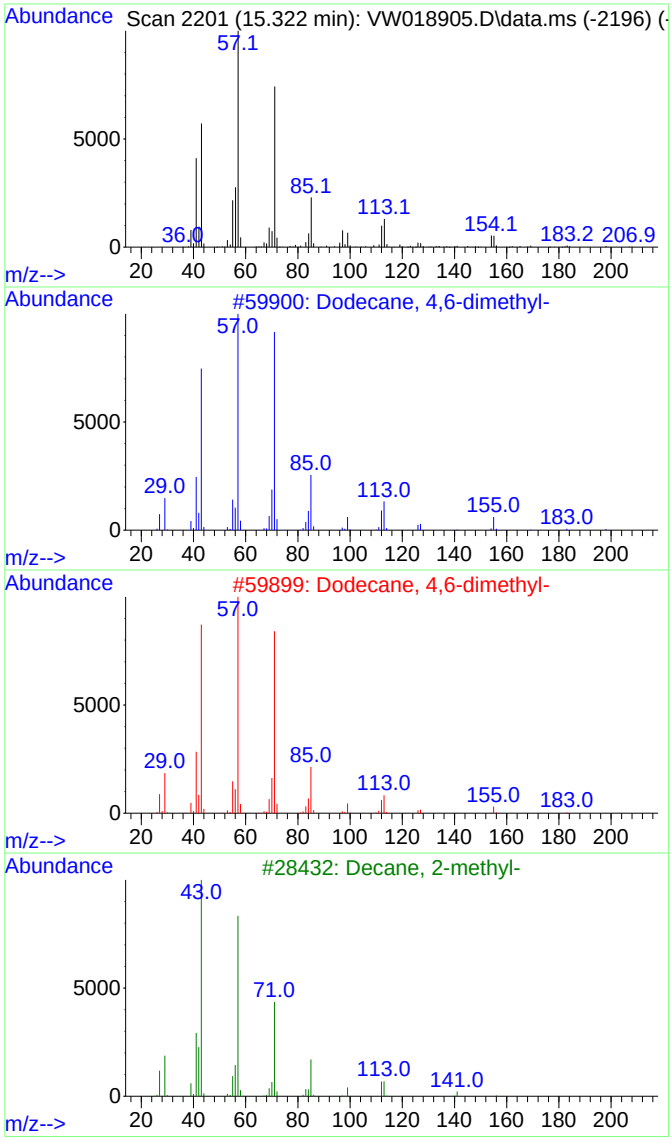
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

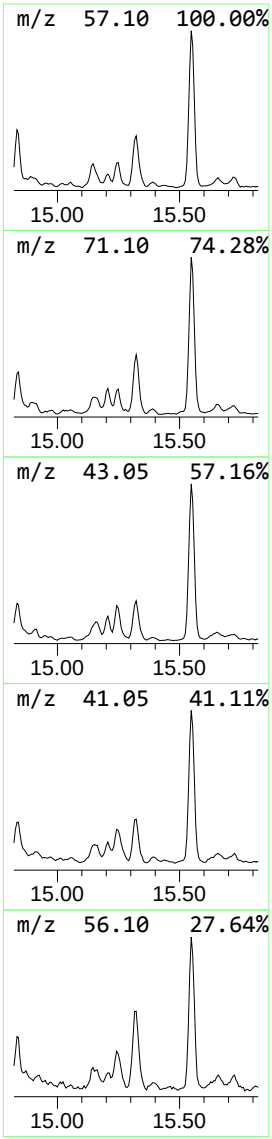
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 46 (DEL) Alkane: Straight-Chai... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.322 | 10.12 ug/L | 506479 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 4,6-dimethyl- | 198 | C14H30 | 061141-72-8 | 90 |
| 2 | Dodecane, 4,6-dimethyl- | 198 | C14H30 | 061141-72-8 | 78 |
| 3 | Decane, 2-methyl- | 156 | C11H24 | 006975-98-0 | 72 |
| 4 | Sulfurous acid, decyl 2-ethylhex... | 334 | C18H38O3S | 1000309-19-3 | 72 |
| 5 | Hexadecane, 7-methyl- | 240 | C17H36 | 026730-20-1 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

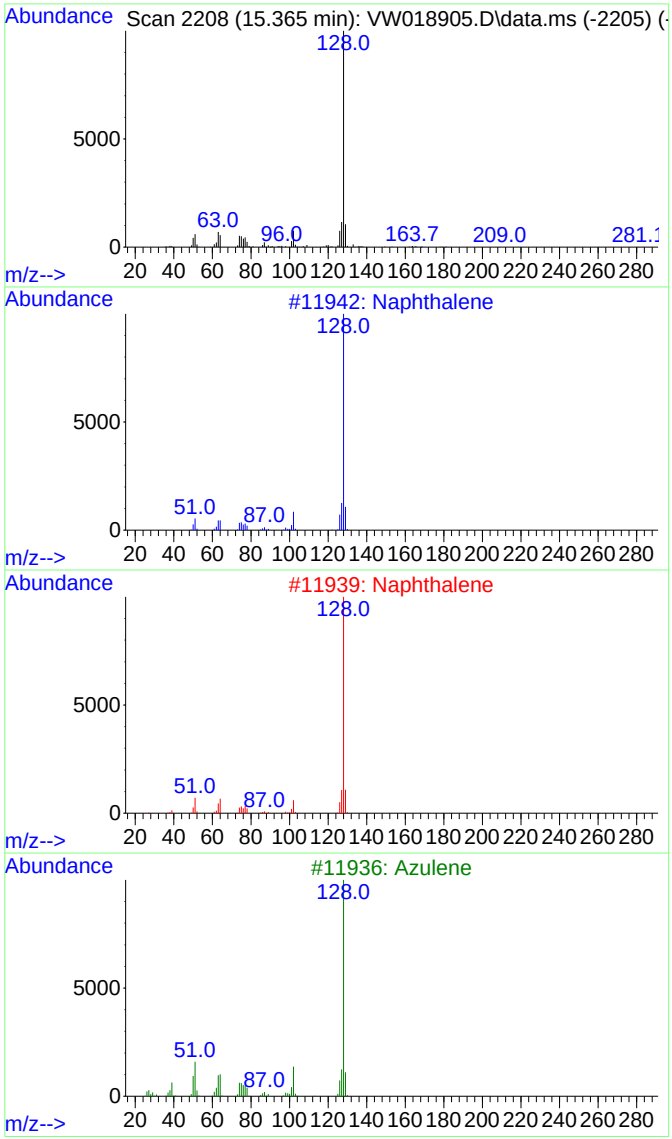
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

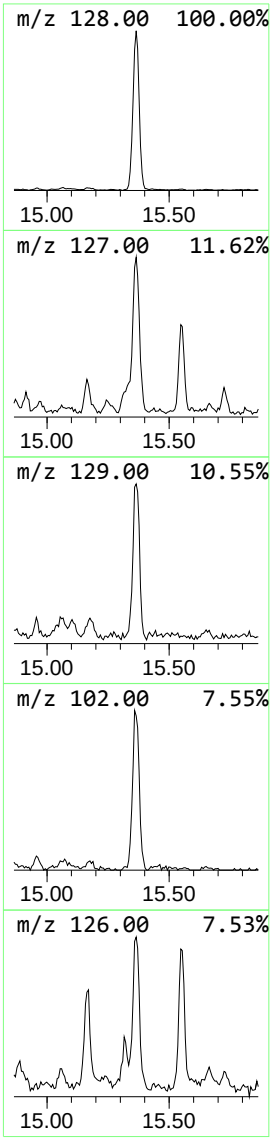
**********

Peak Number 47 Azulene Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.365 | 4.65 ug/L | 232706 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene | 128 | C10H8 | 000091-20-3 | 94 |
| 2 | Naphthalene | 128 | C10H8 | 000091-20-3 | 91 |
| 3 | Azulene | 128 | C10H8 | 000275-51-4 | 91 |
| 4 | Naphthalene | 128 | C10H8 | 000091-20-3 | 90 |
| 5 | Azulene | 128 | C10H8 | 000275-51-4 | 90 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

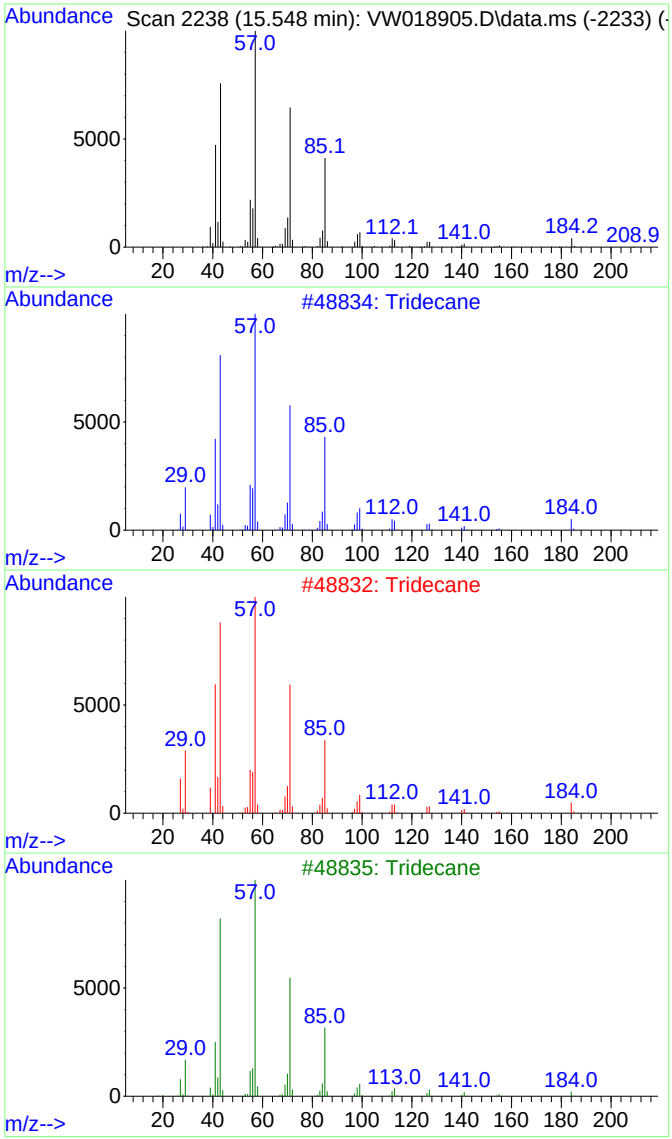
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

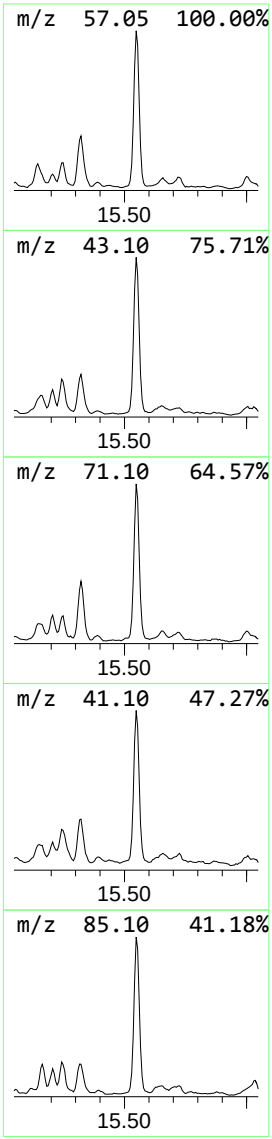
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 48 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.548 | 30.08 ug/L | 1505170 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 96 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 94 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 94 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 87 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 87 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

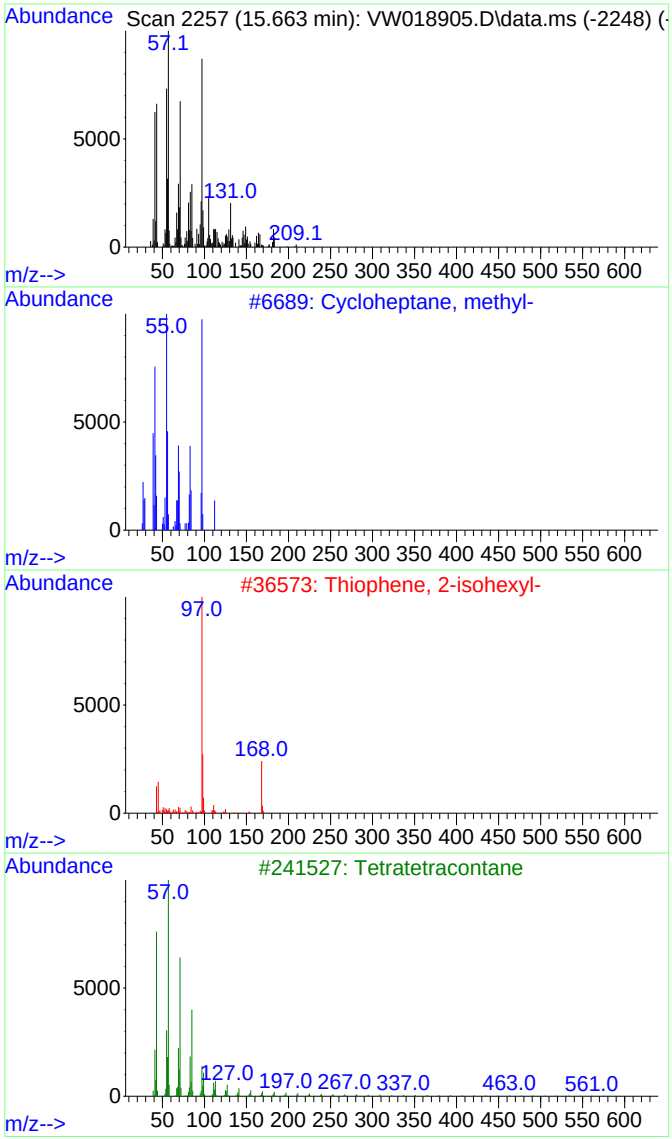
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

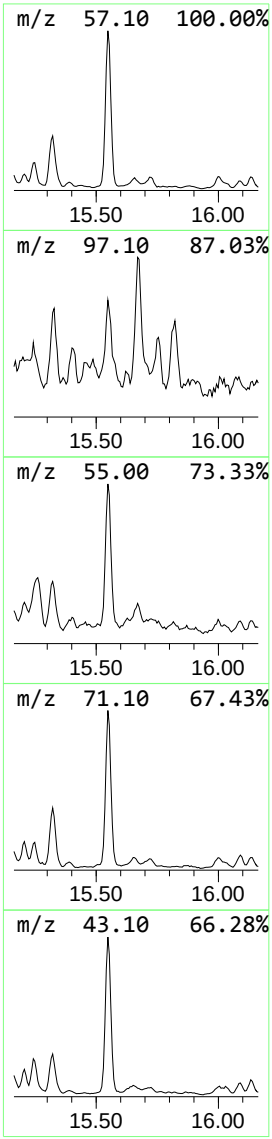
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 49 (DEL) Alkane: Cyclic15.663 Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.663 | 4.76 ug/L | 238340 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cycloheptane, methyl- | 112 | C8H16 | 004126-78-7 | 30 |
| 2 | Thiophene, 2-isohexyl- | 168 | C10H16S | 004861-59-0 | 30 |
| 3 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 25 |
| 4 | Tetracontane, 3,5,24-trimethyl- | 605 | C43H88 | 055162-61-3 | 25 |
| 5 | Sulfurous acid, butyl tridecyl e... | 320 | C17H36O3S | 1000309-18-0 | 22 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

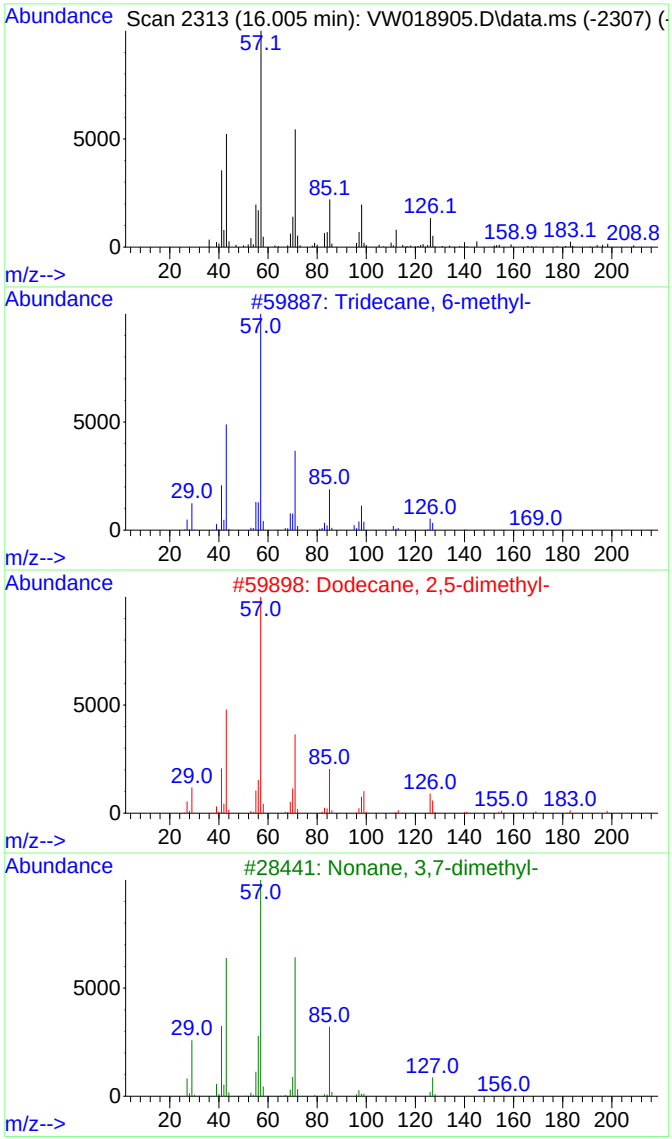
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

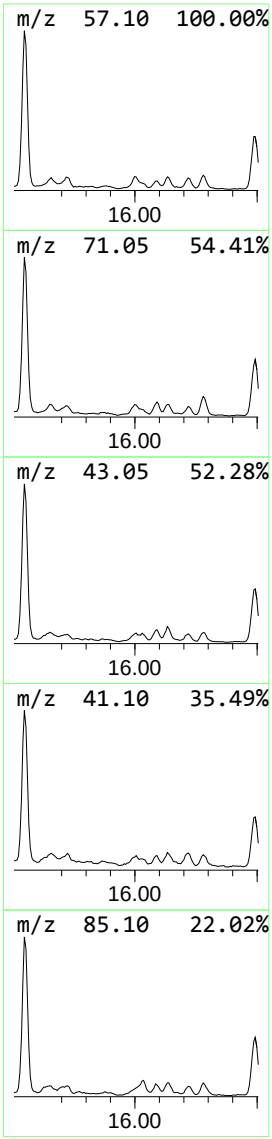
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 50 (DEL) Alkane: Straight-Chai... Concentration Rank 47

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.005 | 2.30 ug/L | 115316 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane, 6-methyl- | 198 | C14H30 | 013287-21-3 | 64 |
| 2 | Dodecane, 2,5-dimethyl- | 198 | C14H30 | 056292-65-0 | 52 |
| 3 | Nonane, 3,7-dimethyl- | 156 | C11H24 | 017302-32-8 | 47 |
| 4 | 2,3-Dimethyldecane | 170 | C12H26 | 017312-44-6 | 47 |
| 5 | Undecane, 3,6-dimethyl- | 184 | C13H28 | 017301-28-9 | 47 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

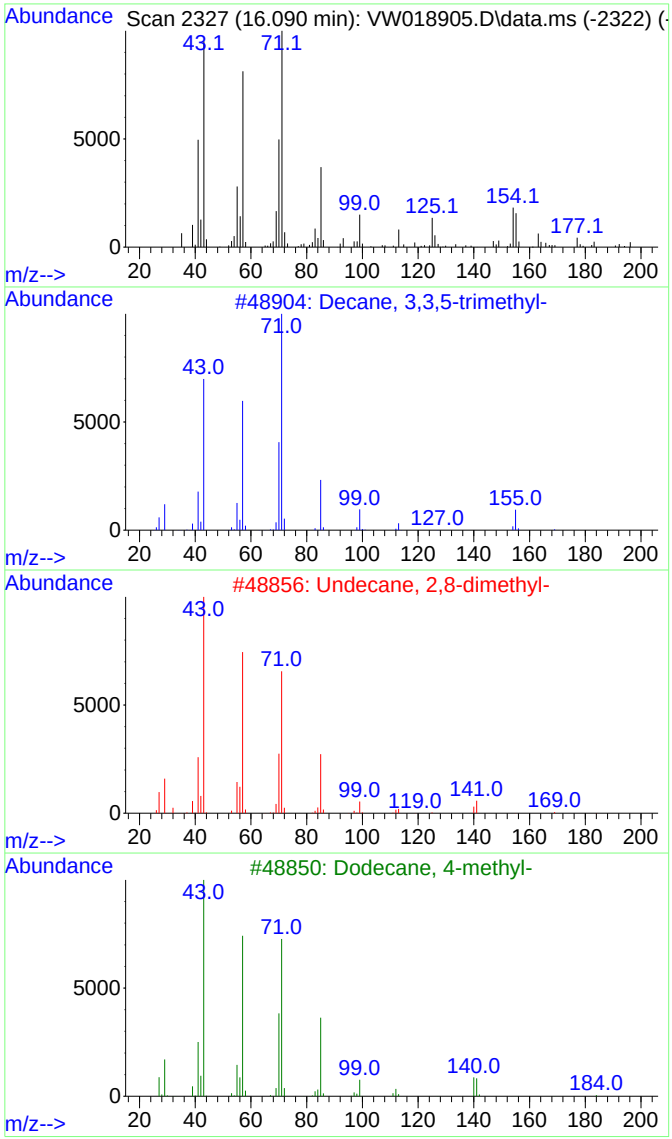
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

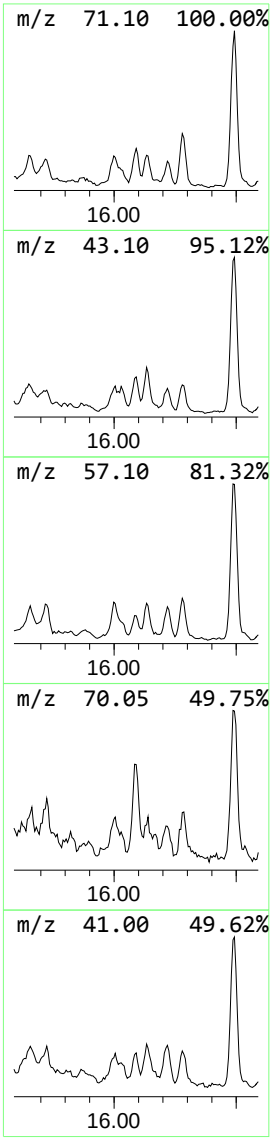
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 51 (DEL) Alkane: Straight-Chai... Concentration Rank 49

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.090 | 2.13 ug/L | 106780 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3,3,5-trimethyl- | 184 | C13H28 | 062338-13-0 | 72 |
| 2 | Undecane, 2,8-dimethyl- | 184 | C13H28 | 017301-25-6 | 64 |
| 3 | Dodecane, 4-methyl- | 184 | C13H28 | 006117-97-1 | 64 |
| 4 | Decane, 2,8,8-trimethyl- | 184 | C13H28 | 1000060-81-2 | 59 |
| 5 | Undecane, 3,3-dimethyl- | 184 | C13H28 | 017312-65-1 | 59 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BG7F3

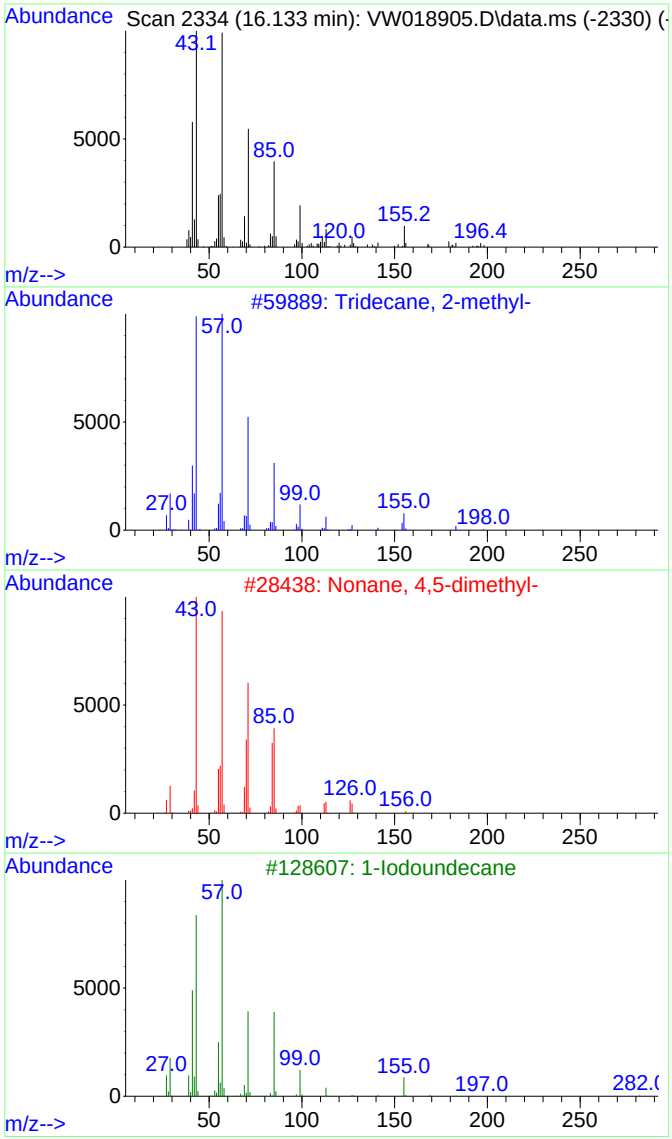
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

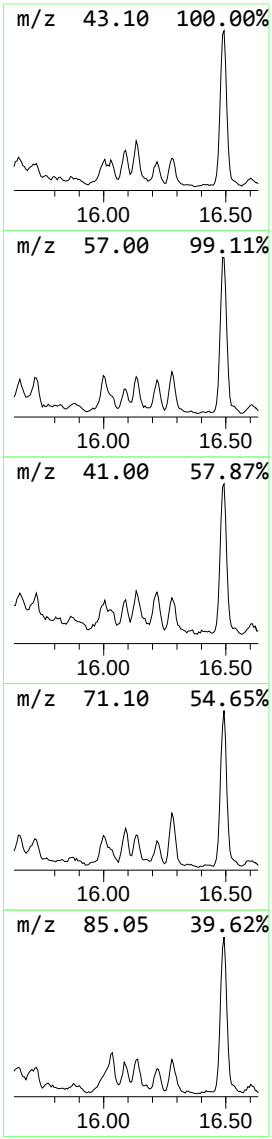
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 52 (DEL) Alkane: Straight-Chai... Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.133 | 3.28 ug/L | 164124 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane, 2-methyl- | 198 | C14H30 | 001560-96-9 | 93 |
| 2 | Nonane, 4,5-dimethyl- | 156 | C11H24 | 017302-23-7 | 81 |
| 3 | 1-Iodoundecane | 282 | C11H23I | 004282-44-4 | 64 |
| 4 | 3,5-Dimethyldodecane | 198 | C14H30 | 107770-99-0 | 64 |
| 5 | Sulfurous acid, butyl tetradecyl... | 334 | C18H38O3S | 1000309-18-1 | 64 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :**
MSVOA_W
**ClientSampleId :**
BG7F3

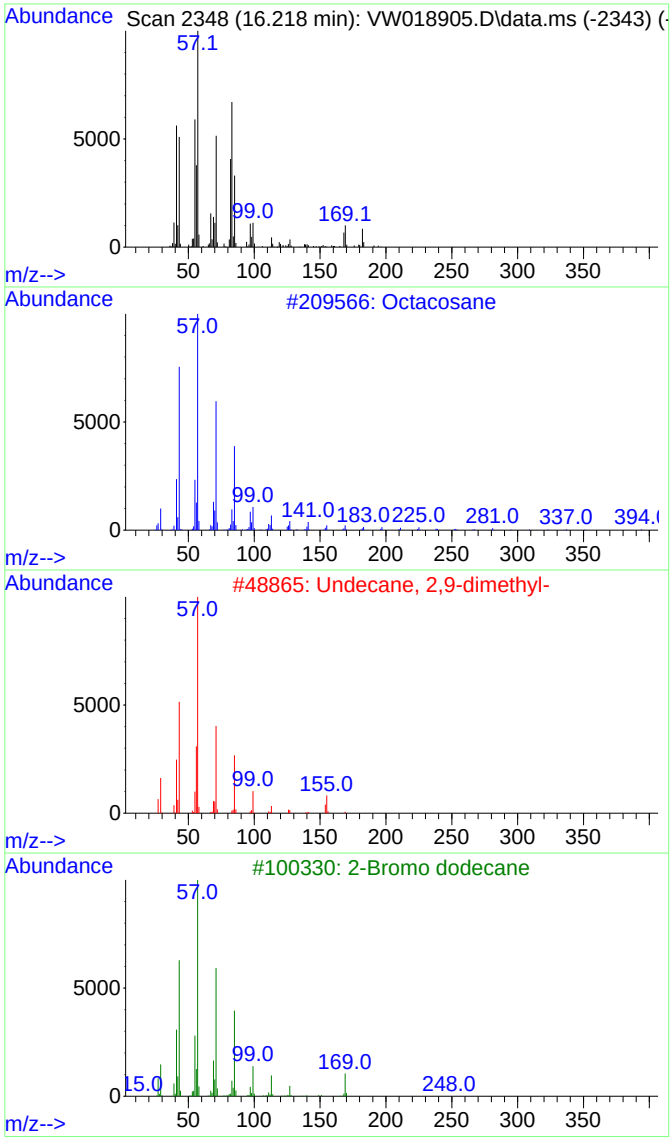
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

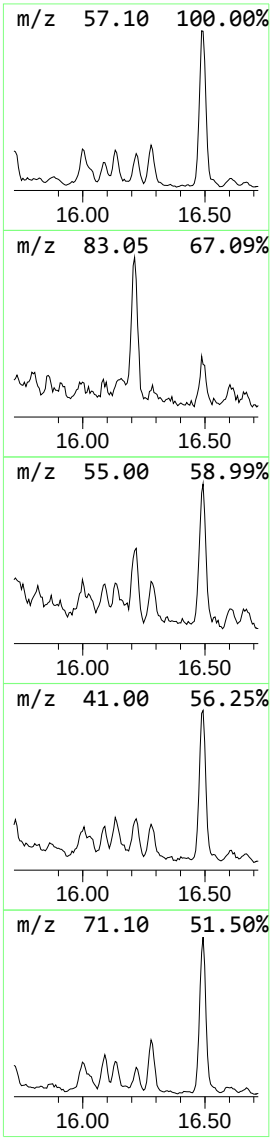
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 53 (DEL) Alkane: Straight-Chai... Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.218 | 3.28 ug/L | 164100 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octacosane | 394 | C28H58 | 000630-02-4 | 38 |
| 2 | Undecane, 2,9-dimethyl- | 184 | C13H28 | 017301-26-7 | 38 |
| 3 | 2-Bromo dodecane | 248 | C12H25Br | 013187-99-0 | 38 |
| 4 | Tetratetracontane | 619 | C44H90 | 007098-22-8 | 38 |
| 5 | 10-Methylnonadecane | 282 | C20H42 | 056862-62-5 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

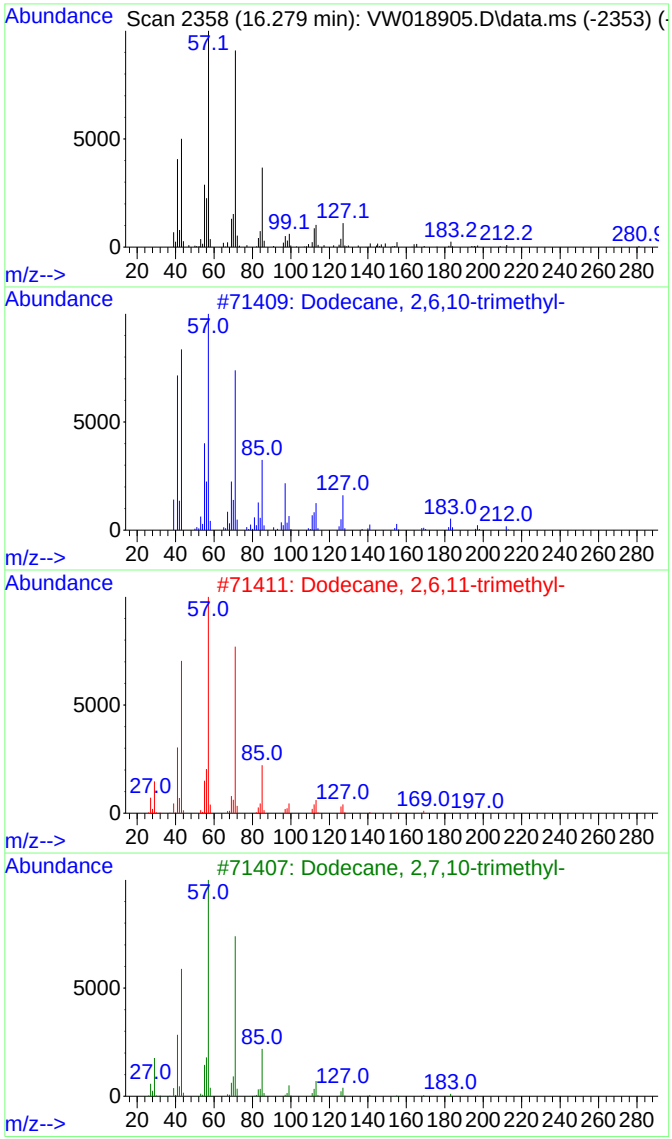
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

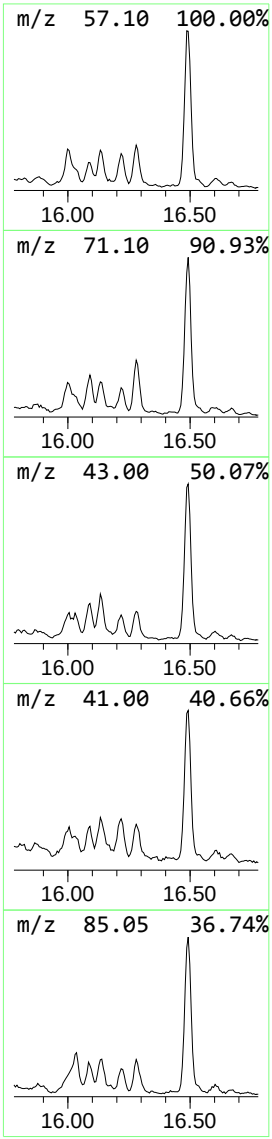
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 54 (DEL) Alkane: Straight-Chai... Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.279 | 3.42 ug/L | 171253 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane, 2,6,10-trimethyl- | 212 | C15H32 | 003891-98-3 | 91 |
| 2 | Dodecane, 2,6,11-trimethyl- | 212 | C15H32 | 031295-56-4 | 83 |
| 3 | Dodecane, 2,7,10-trimethyl- | 212 | C15H32 | 074645-98-0 | 80 |
| 4 | Dodecane, 2,6,10-trimethyl- | 212 | C15H32 | 003891-98-3 | 80 |
| 5 | Decane, 5-propyl- | 184 | C13H28 | 017312-62-8 | 76 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

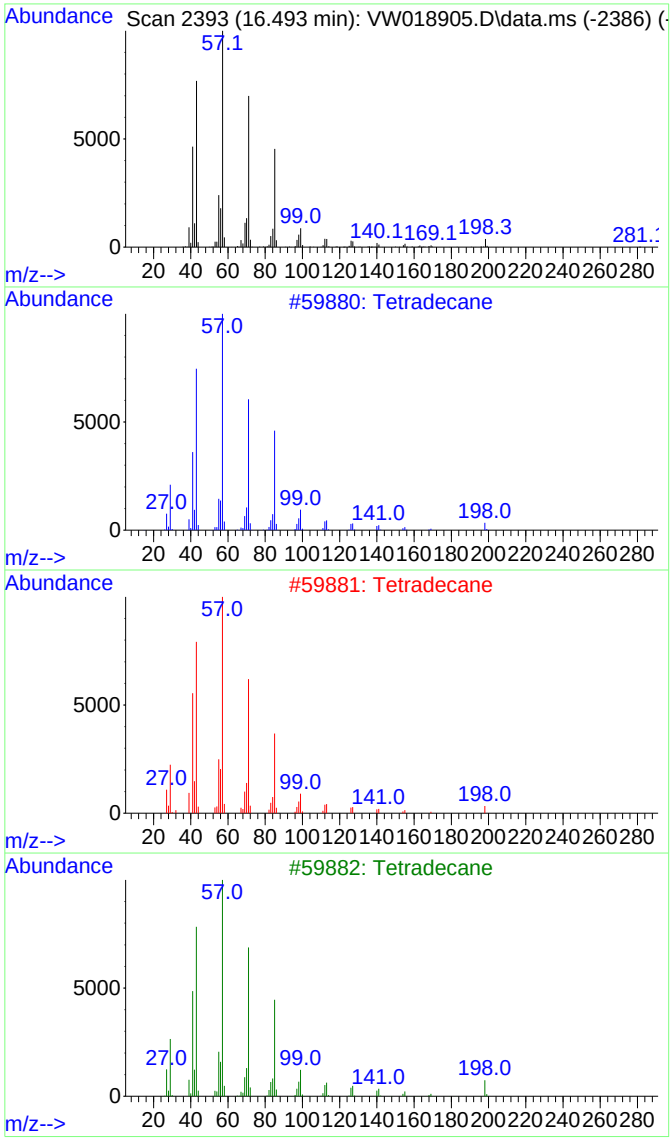
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

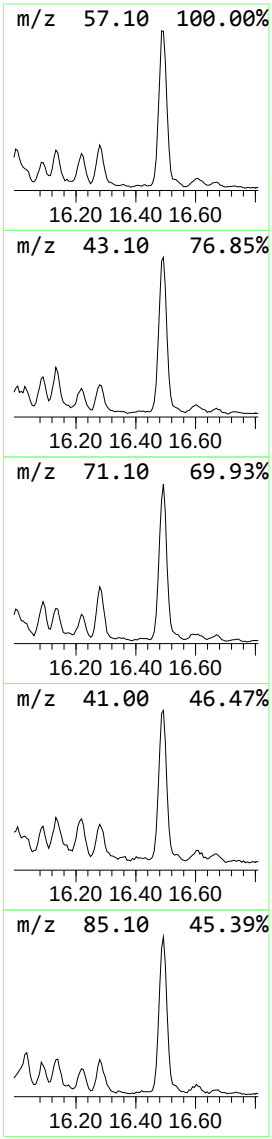
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 55 (DEL) Alkane: Straight-Chai... Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.493 | 13.14 ug/L | 657485 | 1,4-Dichlorobenzene-d4 | 13.560 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tetradecane | 198 | C14H30 | 000629-59-4 | 96 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 95 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 94 |
| 4 | Nonadecane | 268 | C19H40 | 000629-92-5 | 90 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 90 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW050321\
Data File : VW018905.D
Acq On : 03 May 2021 17:45
Operator : SY/VA
Sample : M2209-18
Misc : 6.14G/10ML/MSVOA_W/SOIL
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_W
**ClientSampleId :** BG7F3

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\SFAMWLM042921SMA.M
Quant Title : SFAM01.0

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

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| unknown-01 | 2.227 | 2.9 | ug/L | 141007 | 1 | 8.854 | 1222170 | 25.0 |
| (DEL) Alkane: S... | 11.439 | 4.3 | ug/L | 178212 | 2 | 11.658 | 1024260 | 25.0 |
| (DEL) Alkane: S... | 11.536 | 2.1 | ug/L | 88252 | 2 | 11.658 | 1024260 | 25.0 |
| (DEL) Alkane: C... | 11.932 | 2.0 | ug/L | 79889 | 2 | 11.658 | 1024260 | 25.0 |
| (DEL) Alkane: S... | 12.067 | 1.8 | ug/L | 73767 | 2 | 11.658 | 1024260 | 25.0 |
| (DEL) Alkane: S... | 12.262 | 5.0 | ug/L | 203684 | 2 | 11.658 | 1024260 | 25.0 |
| Bicyclo[3.3.1]n... | 12.353 | 8.6 | ug/L | 350245 | 2 | 11.658 | 1024260 | 25.0 |
| (DEL) Alkane: C... | 12.396 | 3.0 | ug/L | 122271 | 2 | 11.658 | 1024260 | 25.0 |
| (DEL) Alkane: S... | 12.548 | 1.4 | ug/L | 56925 | 2 | 11.658 | 1024260 | 25.0 |
| (DEL) Alkane: S... | 12.573 | 1.7 | ug/L | 68880 | 2 | 11.658 | 1024260 | 25.0 |
| Benzene, propyl- | 12.798 | 10.1 | ug/L | 504128 | 3 | 13.560 | 1251000 | 25.0 |
| Benzene, 1-ethy... | 12.871 | 15.4 | ug/L | 768543 | 3 | 13.560 | 1251000 | 25.0 |
| Benzene, 1-ethy... | 13.109 | 10.4 | ug/L | 520170 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 13.170 | 7.6 | ug/L | 381918 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 13.194 | 6.1 | ug/L | 306830 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 13.347 | 1.4 | ug/L | 71149 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 13.414 | 9.8 | ug/L | 492178 | 3 | 13.560 | 1251000 | 25.0 |
| o-Cymene | 13.450 | 9.8 | ug/L | 489795 | 3 | 13.560 | 1251000 | 25.0 |
| Benzene, 1,3-di... | 13.719 | 6.4 | ug/L | 321954 | 3 | 13.560 | 1251000 | 25.0 |
| Benzene, (1-met... | 13.755 | 16.5 | ug/L | 823972 | 3 | 13.560 | 1251000 | 25.0 |
| Benzene, 2-ethy... | 13.792 | 15.7 | ug/L | 786097 | 3 | 13.560 | 1251000 | 25.0 |
| Benzene, 1-meth... | 13.950 | 5.3 | ug/L | 263428 | 3 | 13.560 | 1251000 | 25.0 |
| Benzene, 4-ethy... | 14.011 | 8.6 | ug/L | 432425 | 3 | 13.560 | 1251000 | 25.0 |
| Benzene, 1-meth... | 14.042 | 10.8 | ug/L | 541430 | 3 | 13.560 | 1251000 | 25.0 |
| unknown-02 | 14.097 | 15.2 | ug/L | 762166 | 3 | 13.560 | 1251000 | 25.0 |
| unknown-03 | 14.206 | 10.7 | ug/L | 535654 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 14.261 | 4.6 | ug/L | 230037 | 3 | 13.560 | 1251000 | 25.0 |
| unknown-04 | 14.347 | 12.7 | ug/L | 635512 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: C... | 14.389 | 15.0 | ug/L | 751499 | 3 | 13.560 | 1251000 | 25.0 |
| Benzene, 1,2,4,... | 14.426 | 16.9 | ug/L | 848418 | 3 | 13.560 | 1251000 | 25.0 |
| Benzene, 1,2,3,... | 14.456 | 12.1 | ug/L | 605675 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 14.499 | 9.6 | ug/L | 479569 | 3 | 13.560 | 1251000 | 25.0 |
| unknown-05 | 14.542 | 4.1 | ug/L | 204227 | 3 | 13.560 | 1251000 | 25.0 |
| unknown-06 | 14.639 | 1.5 | ug/L | 74139 | 3 | 13.560 | 1251000 | 25.0 |
| 3-Phenylbut-1-ene | 14.688 | 3.4 | ug/L | 168019 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 14.719 | 41.9 | ug/L | 2097020 | 3 | 13.560 | 1251000 | 25.0 |
| 1,3-Cyclopentad... | 14.792 | 18.4 | ug/L | 919416 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 14.840 | 9.6 | ug/L | 480649 | 3 | 13.560 | 1251000 | 25.0 |
| Benzene, pentam... | 15.060 | 3.1 | ug/L | 156368 | 3 | 13.560 | 1251000 | 25.0 |
| unknown-07 | 15.164 | 6.8 | ug/L | 341333 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 15.206 | 3.9 | ug/L | 193662 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 15.249 | 8.3 | ug/L | 417412 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 15.322 | 10.1 | ug/L | 506479 | 3 | 13.560 | 1251000 | 25.0 |
| Azulene | 15.365 | 4.7 | ug/L | 232706 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 15.548 | 30.1 | ug/L | 1505170 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: C... | 15.663 | 4.8 | ug/L | 238340 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 16.005 | 2.3 | ug/L | 115316 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 16.090 | 2.1 | ug/L | 106780 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 16.133 | 3.3 | ug/L | 164124 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 16.218 | 3.3 | ug/L | 164100 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 16.279 | 3.4 | ug/L | 171253 | 3 | 13.560 | 1251000 | 25.0 |
| (DEL) Alkane: S... | 16.493 | 13.1 | ug/L | 657485 | 3 | 13.560 | 1251000 | 25.0 |

**Instrument :**
MSVOA_W
**ClientSampleId :**
BG7F3