LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

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_U\METHOD\SOMULM071219WMA.M
Title : VOC Analysis

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.688 | 179 | 186 | 196 | rVB | 600961 | 641262 | 3.97% | 0.412% |
| 2 | 2.225 | 342 | 353 | 378 | rVB | 386396 | 602031 | 3.73% | 0.387% |
| 3 | 2.698 | 492 | 500 | 512 | rVB | 430460 | 804225 | 4.98% | 0.517% |
| 4 | 2.952 | 562 | 579 | 608 | rVB | 350157 | 731691 | 4.53% | 0.470% |
| 5 | 3.257 | 658 | 674 | 694 | rBV2 | 261460 | 548856 | 3.40% | 0.353% |
| 6 | 3.948 | 872 | 889 | 904 | rVV | 278491 | 780649 | 4.83% | 0.502% |
| 7 | 4.045 | 904 | 919 | 937 | rVV | 518758 | 1391934 | 8.62% | 0.894% |
| 8 | 4.157 | 938 | 954 | 1005 | rVB2 | 109040 | 444843 | 2.75% | 0.286% |
| 9 | 4.617 | 1085 | 1097 | 1110 | rBV | 188728 | 429747 | 2.66% | 0.276% |
| 10 | 4.952 | 1186 | 1201 | 1214 | rVV3 | 743812 | 1769560 | 10.96% | 1.137% |
| 11 | 5.045 | 1215 | 1230 | 1256 | rVB | 1161924 | 3033557 | 18.78% | 1.949% |
| 12 | 5.183 | 1256 | 1273 | 1294 | rBV | 725632 | 1798322 | 11.14% | 1.155% |
| 13 | 5.308 | 1294 | 1312 | 1327 | rVB2 | 459099 | 1249327 | 7.74% | 0.803% |
| 14 | 5.450 | 1343 | 1356 | 1361 | rVV2 | 333563 | 681003 | 4.22% | 0.438% |
| 15 | 5.505 | 1362 | 1373 | 1388 | rVV | 1838389 | 4586099 | 28.40% | 2.947% |
| 16 | 5.588 | 1388 | 1399 | 1413 | rVB3 | 445797 | 1057281 | 6.55% | 0.679% |
| 17 | 5.752 | 1435 | 1450 | 1471 | rBV2 | 557426 | 1109310 | 6.87% | 0.713% |
| 18 | 5.861 | 1471 | 1484 | 1492 | rBV | 421008 | 837058 | 5.18% | 0.538% |
| 19 | 5.919 | 1492 | 1502 | 1524 | rVB4 | 482632 | 1338449 | 8.29% | 0.860% |
| 20 | 6.189 | 1573 | 1586 | 1610 | rVB4 | 324655 | 781322 | 4.84% | 0.502% |
| 21 | 6.308 | 1610 | 1623 | 1631 | rBV | 284411 | 569791 | 3.53% | 0.366% |
| 22 | 6.386 | 1631 | 1647 | 1659 | rVV3 | 1348329 | 3034276 | 18.79% | 1.950% |
| 23 | 6.508 | 1676 | 1685 | 1696 | rVB | 319284 | 566705 | 3.51% | 0.364% |
| 24 | 6.617 | 1708 | 1719 | 1735 | rBV | 262595 | 509116 | 3.15% | 0.327% |
| 25 | 6.710 | 1736 | 1748 | 1761 | rVB4 | 212363 | 479909 | 2.97% | 0.308% |
| 26 | 6.810 | 1761 | 1779 | 1790 | rBV5 | 156520 | 450026 | 2.79% | 0.289% |
| 27 | 6.900 | 1791 | 1807 | 1823 | rVB | 1144747 | 2566988 | 15.90% | 1.649% |
| 28 | 7.029 | 1824 | 1847 | 1858 | rBV4 | 834282 | 2320084 | 14.37% | 1.491% |
| 29 | 7.083 | 1858 | 1864 | 1876 | rVV4 | 353186 | 652356 | 4.04% | 0.419% |
| 30 | 7.157 | 1877 | 1887 | 1894 | rVV2 | 766370 | 1379197 | 8.54% | 0.886% |
| 31 | 7.199 | 1895 | 1900 | 1918 | rVB4 | 553998 | 1052922 | 6.52% | 0.677% |
| 32 | 7.318 | 1928 | 1937 | 1954 | rVB | 629864 | 1063738 | 6.59% | 0.683% |
| 33 | 7.508 | 1982 | 1996 | 2001 | rBV3 | 769877 | 1503868 | 9.31% | 0.966% |
| 34 | 7.543 | 2002 | 2007 | 2022 | rVB | 961873 | 1641011 | 10.16% | 1.054% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

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_U\METHOD\SOMULM071219WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.681 | 2041 | 2050 | 2057 | rBV4 | 265746 | 491755 | 3.05% | 0.316% |
| 36 | 7.800 | 2079 | 2087 | 2093 | rBV | 351108 | 601147 | 3.72% | 0.386% |
| 37 | 7.894 | 2107 | 2116 | 2136 | rVB5 | 487045 | 1211401 | 7.50% | 0.778% |
| 38 | 8.025 | 2148 | 2157 | 2165 | rVV | 341843 | 575918 | 3.57% | 0.370% |
| 39 | 8.074 | 2165 | 2172 | 2187 | rVB2 | 355720 | 658939 | 4.08% | 0.423% |
| 40 | 8.308 | 2235 | 2245 | 2257 | rBV3 | 726208 | 1271524 | 7.87% | 0.817% |
| 41 | 8.437 | 2270 | 2285 | 2289 | rBV2 | 262595 | 522555 | 3.24% | 0.336% |
| 42 | 8.527 | 2303 | 2313 | 2321 | rBV | 515016 | 869292 | 5.38% | 0.559% |
| 43 | 8.588 | 2324 | 2332 | 2341 | rVB | 431390 | 717279 | 4.44% | 0.461% |
| 44 | 8.736 | 2365 | 2378 | 2389 | rBV4 | 310734 | 678362 | 4.20% | 0.436% |
| 45 | 8.893 | 2419 | 2427 | 2437 | rVB2 | 635340 | 1033979 | 6.40% | 0.664% |
| 46 | 9.012 | 2454 | 2464 | 2474 | rVB | 704721 | 1127394 | 6.98% | 0.724% |
| 47 | 9.074 | 2474 | 2483 | 2493 | rBV | 686119 | 1090180 | 6.75% | 0.700% |
| 48 | 9.234 | 2523 | 2533 | 2545 | rVB2 | 754744 | 1237683 | 7.66% | 0.795% |
| 49 | 9.360 | 2563 | 2572 | 2586 | rVB2 | 1163258 | 2205927 | 13.66% | 1.417% |
| 50 | 9.427 | 2586 | 2593 | 2618 | rVB2 | 717385 | 1513084 | 9.37% | 0.972% |
| 51 | 9.701 | 2668 | 2678 | 2688 | rBV2 | 338987 | 612680 | 3.79% | 0.394% |
| 52 | 9.935 | 2733 | 2751 | 2760 | rBV3 | 585857 | 1235286 | 7.65% | 0.794% |
| 53 | 10.028 | 2771 | 2780 | 2790 | rBV5 | 376806 | 653409 | 4.05% | 0.420% |
| 54 | 10.151 | 2808 | 2818 | 2827 | rBV | 430608 | 730559 | 4.52% | 0.469% |
| 55 | 10.344 | 2871 | 2878 | 2891 | rVB5 | 336820 | 725649 | 4.49% | 0.466% |
| 56 | 10.421 | 2892 | 2902 | 2914 | rBV2 | 544880 | 1228121 | 7.60% | 0.789% |
| 57 | 10.572 | 2938 | 2949 | 2959 | rBV | 1767001 | 2676621 | 16.57% | 1.720% |
| 58 | 10.668 | 2968 | 2979 | 2982 | rBV | 2142213 | 3125224 | 19.35% | 2.008% |
| 59 | 10.758 | 2996 | 3007 | 3014 | rBV | 1453043 | 2265951 | 14.03% | 1.456% |
| 60 | 10.800 | 3015 | 3020 | 3042 | rVB2 | 472526 | 746762 | 4.62% | 0.480% |
| 61 | 10.958 | 3059 | 3069 | 3091 | rVB | 1505462 | 2464117 | 15.26% | 1.583% |
| 62 | 11.135 | 3106 | 3124 | 3153 | rVB | 10410961 | 16149367 | 100.00% | 10.376% |
| 63 | 11.276 | 3155 | 3168 | 3173 | rBV2 | 288249 | 550334 | 3.41% | 0.354% |
| 64 | 11.311 | 3174 | 3179 | 3191 | rVB2 | 318277 | 514213 | 3.18% | 0.330% |
| 65 | 11.414 | 3205 | 3211 | 3219 | rVB | 358801 | 512143 | 3.17% | 0.329% |
| 66 | 11.469 | 3219 | 3228 | 3238 | rBV2 | 985696 | 1497754 | 9.27% | 0.962% |
| 67 | 11.556 | 3246 | 3255 | 3265 | rBV | 2128998 | 3066882 | 18.99% | 1.970% |
| 68 | 11.758 | 3305 | 3318 | 3324 | rBV4 | 1795907 | 3555251 | 22.01% | 2.284% |
| 69 | 11.794 | 3325 | 3329 | 3337 | rVV | 1729352 | 2289829 | 14.18% | 1.471% |
| 70 | 11.855 | 3337 | 3348 | 3366 | rVB5 | 3387454 | 7536946 | 46.67% | 4.842% |
| 71 | 12.041 | 3391 | 3406 | 3424 | rVB | 712882 | 1300724 | 8.05% | 0.836% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

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_U\METHOD\SOMULM071219WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.131 | 3424 | 3434 | 3439 | rBV | 1636462 | 2506638 | 15.52% | 1.611% |
| 73 | 12.163 | 3439 | 3444 | 3454 | rVB | 1564284 | 2178941 | 13.49% | 1.400% |
| 74 | 12.237 | 3454 | 3467 | 3475 | rBV | 3394699 | 5158650 | 31.94% | 3.314% |
| 75 | 12.340 | 3489 | 3499 | 3507 | rBV | 1402863 | 2413552 | 14.95% | 1.551% |
| 76 | 12.536 | 3551 | 3560 | 3571 | rVB2 | 657444 | 1115618 | 6.91% | 0.717% |
| 77 | 12.636 | 3583 | 3591 | 3599 | rVV | 1886979 | 2841919 | 17.60% | 1.826% |
| 78 | 12.691 | 3599 | 3608 | 3624 | rVB | 2442110 | 3728880 | 23.09% | 2.396% |
| 79 | 12.774 | 3625 | 3634 | 3639 | rBV2 | 728267 | 1086898 | 6.73% | 0.698% |
| 80 | 12.807 | 3640 | 3644 | 3649 | rVV | 436364 | 576806 | 3.57% | 0.371% |
| 81 | 12.835 | 3649 | 3653 | 3661 | rVB | 397048 | 502532 | 3.11% | 0.323% |
| 82 | 12.951 | 3681 | 3689 | 3703 | rVB | 1865025 | 2731781 | 16.92% | 1.755% |
| 83 | 13.019 | 3703 | 3710 | 3718 | rVB2 | 513164 | 685655 | 4.25% | 0.441% |
| 84 | 13.073 | 3718 | 3727 | 3730 | rBV3 | 604260 | 910710 | 5.64% | 0.585% |
| 85 | 13.109 | 3731 | 3738 | 3754 | rVB3 | 2202675 | 3578399 | 22.16% | 2.299% |
| 86 | 13.225 | 3766 | 3774 | 3782 | rBV | 664026 | 898540 | 5.56% | 0.577% |
| 87 | 13.279 | 3783 | 3791 | 3799 | rBV4 | 275295 | 435279 | 2.70% | 0.280% |
| 88 | 13.395 | 3817 | 3827 | 3834 | rBV2 | 476084 | 761117 | 4.71% | 0.489% |
| 89 | 13.443 | 3834 | 3842 | 3850 | rBV | 856730 | 1258647 | 7.79% | 0.809% |
| 90 | 13.498 | 3850 | 3859 | 3866 | rBV3 | 1278599 | 2068250 | 12.81% | 1.329% |
| 91 | 13.597 | 3884 | 3890 | 3895 | rBV | 464889 | 542722 | 3.36% | 0.349% |
| 92 | 13.729 | 3924 | 3931 | 3939 | rVB | 433104 | 668215 | 4.14% | 0.429% |
| 93 | 13.942 | 3988 | 3997 | 4007 | rBV4 | 395162 | 818844 | 5.07% | 0.526% |
| 94 | 13.999 | 4010 | 4015 | 4024 | rVB2 | 270924 | 399210 | 2.47% | 0.256% |
| 95 | 14.141 | 4049 | 4059 | 4072 | rVB | 602600 | 946445 | 5.86% | 0.608% |
| 96 | 14.324 | 4106 | 4116 | 4128 | rBV3 | 570972 | 1212378 | 7.51% | 0.779% |
| 97 | 14.466 | 4152 | 4160 | 4171 | rVV4 | 289795 | 571139 | 3.54% | 0.367% |
| 98 | 14.530 | 4172 | 4180 | 4192 | rVB3 | 345263 | 649878 | 4.02% | 0.418% |
| 99 | 14.864 | 4273 | 4284 | 4301 | rVV | 544153 | 972088 | 6.02% | 0.625% |
| 100 | 15.051 | 4331 | 4342 | 4355 | rVV | 1054327 | 1772062 | 10.97% | 1.139% |

Sum of corrected areas: 155642547

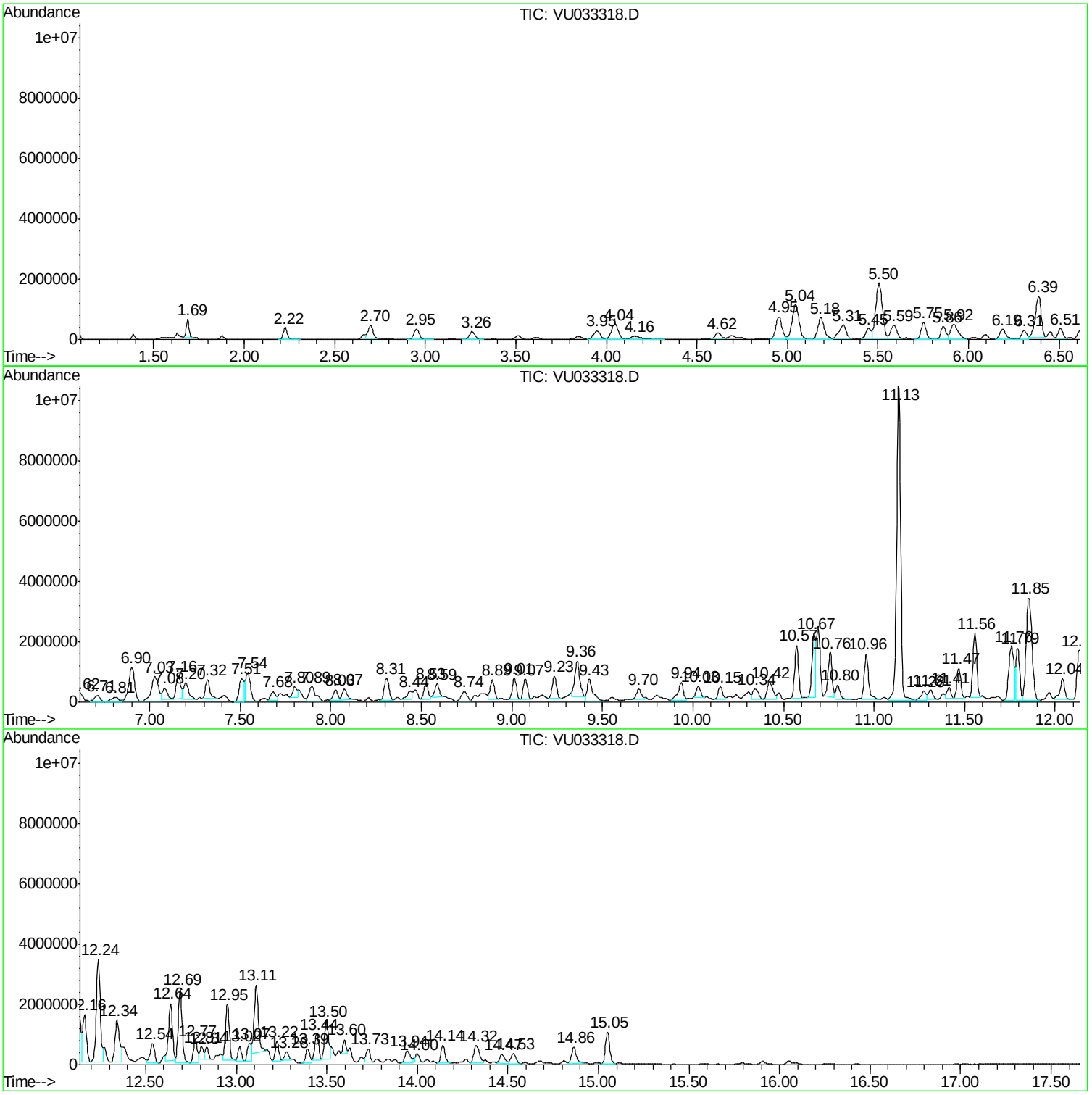
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

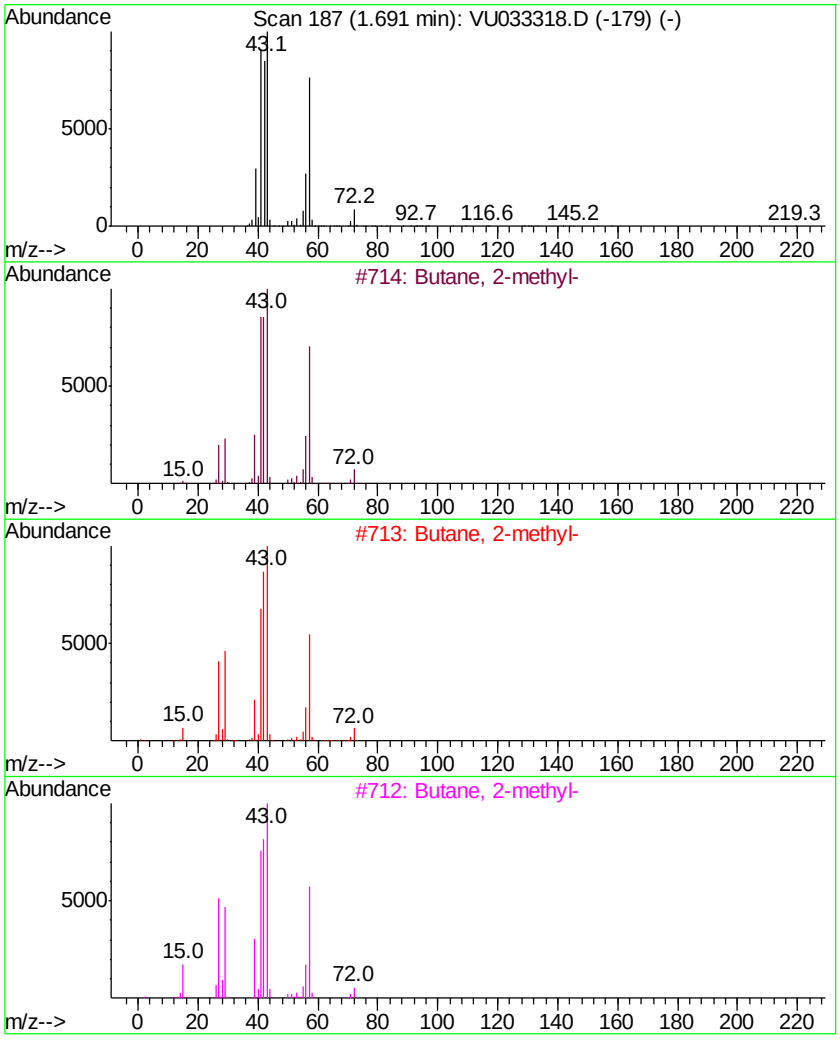
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

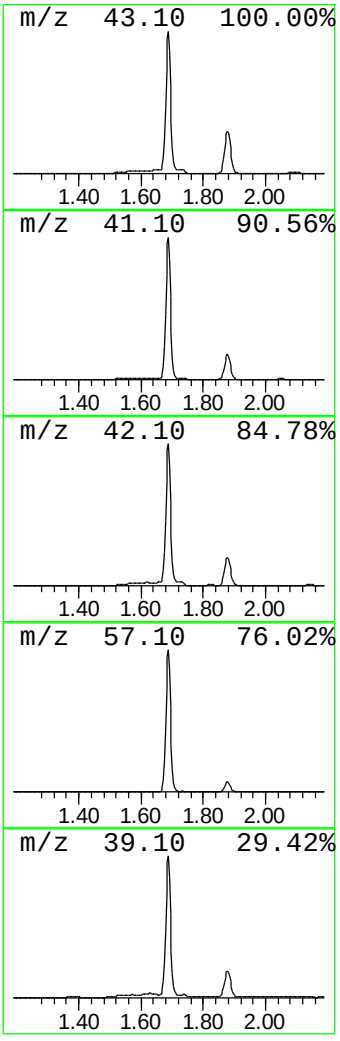
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 46

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.69 | 38.30 ug/L | 641262 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 91 |
| 2 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 87 |
| 3 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 86 |
| 4 | Pentane | 72 | C5H12 | 000109-66-0 | 33 |
| 5 | Oxirane, trimethyl- | 86 | C5H10O | 005076-19-7 | 33 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

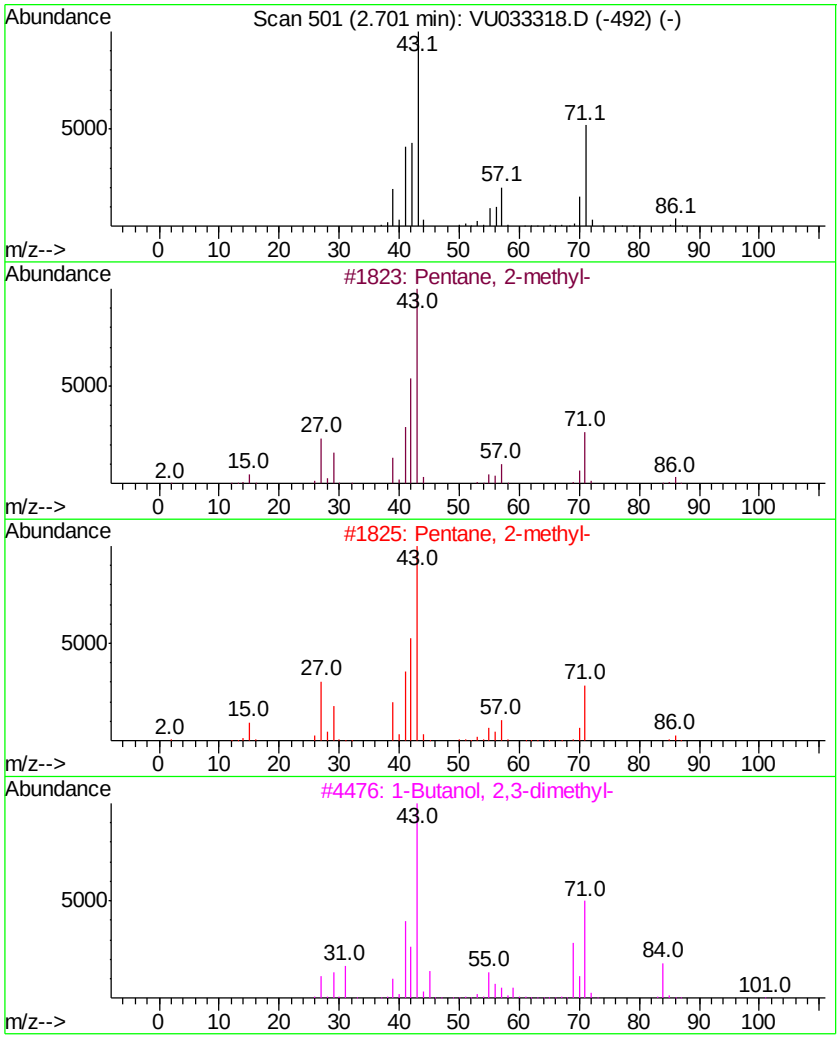
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

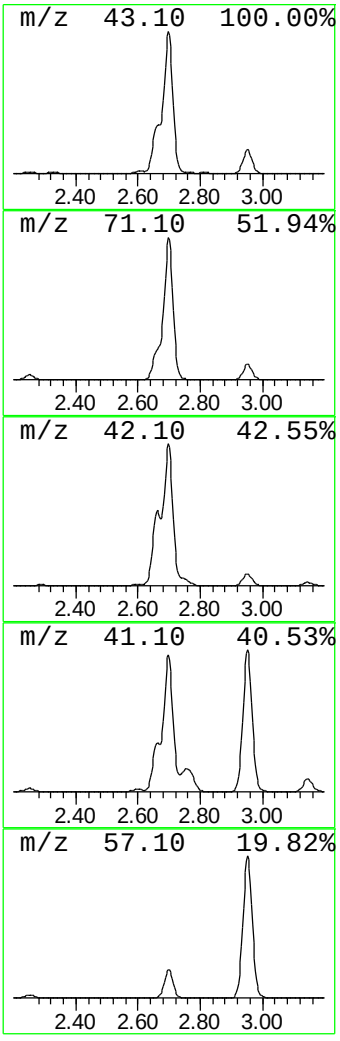
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 35

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.70 | 48.04 ug/L | 804225 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 74 |
| 2 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 59 |
| 3 | 1-Butanol, 2,3-dimethyl- | 102 | C6H14O | 019550-30-2 | 45 |
| 4 | Pentane | 72 | C5H12 | 000109-66-0 | 43 |
| 5 | Butane, 2,3-dimethyl- | 86 | C6H14 | 000079-29-8 | 43 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

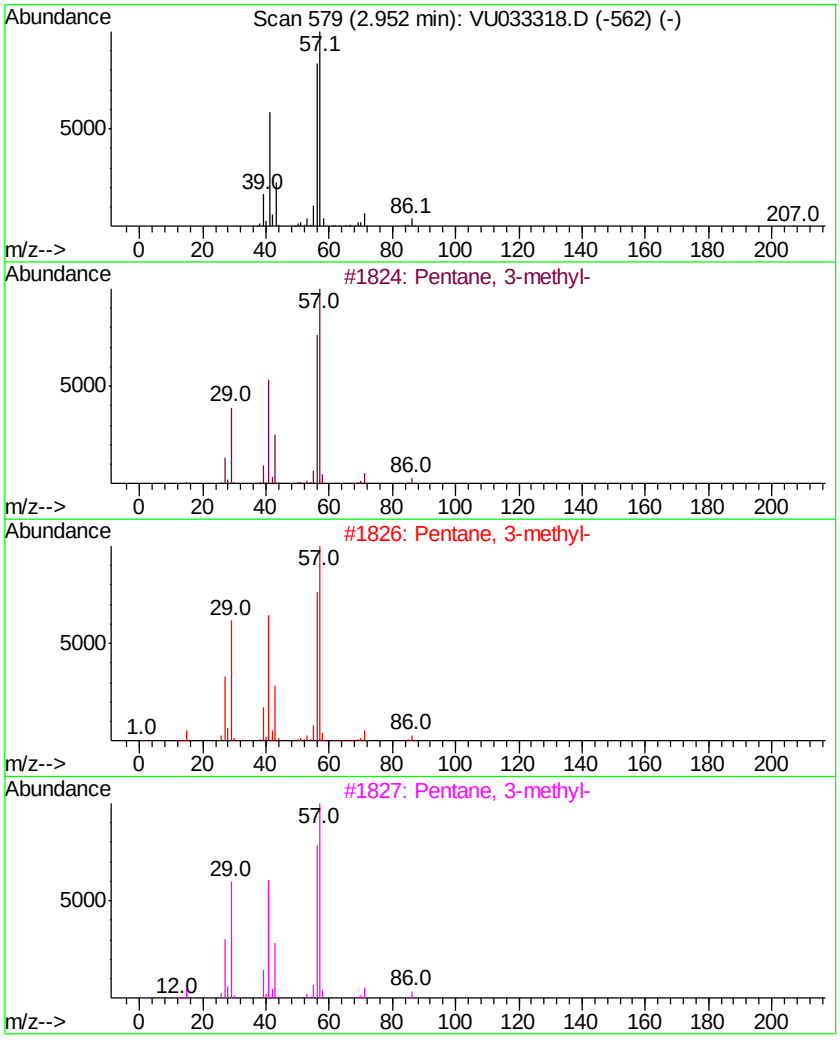
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

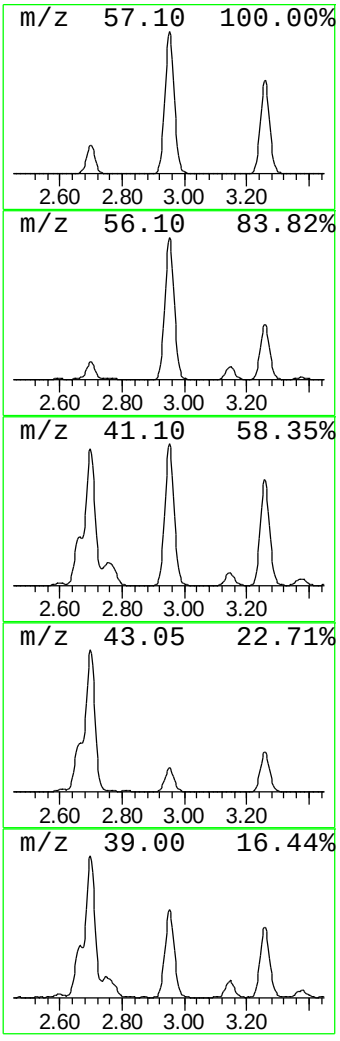
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.95 | 43.71 ug/L | 731691 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 91 |
| 2 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 91 |
| 3 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 90 |
| 4 | Hexane, 2,2,3-trimethyl- | 128 | C9H20 | 016747-25-4 | 78 |
| 5 | Hexane, 2,2,3-trimethyl- | 128 | C9H20 | 016747-25-4 | 78 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

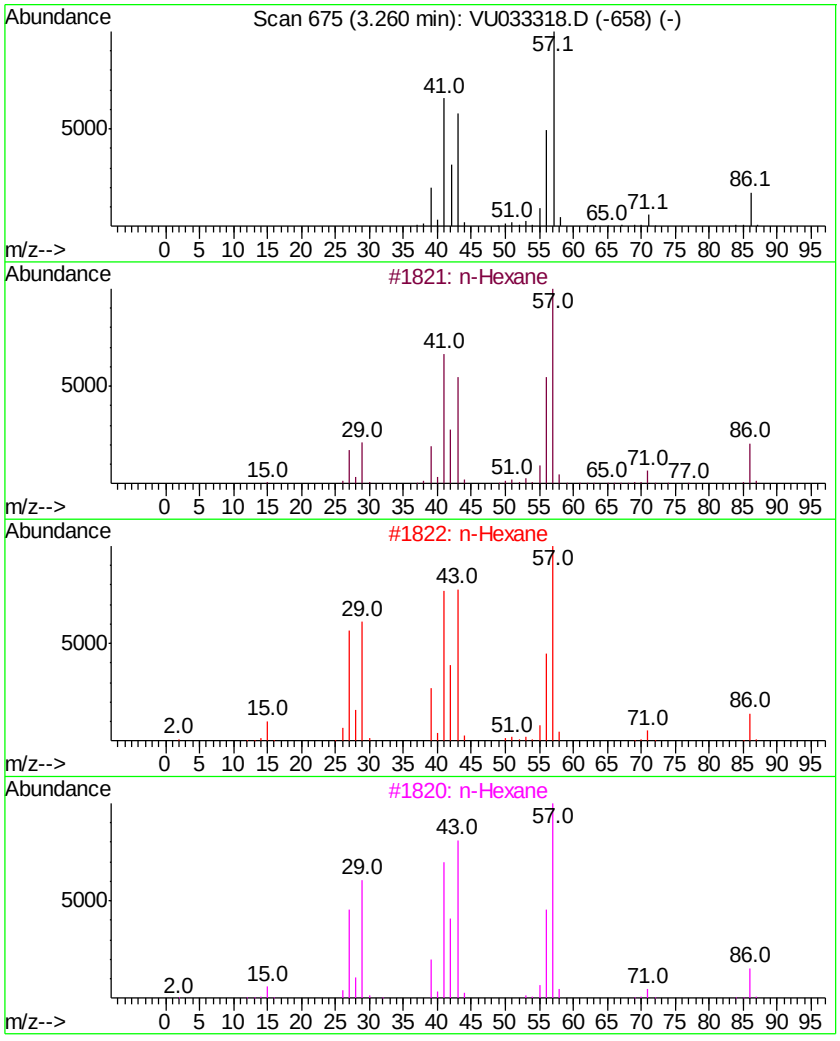
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

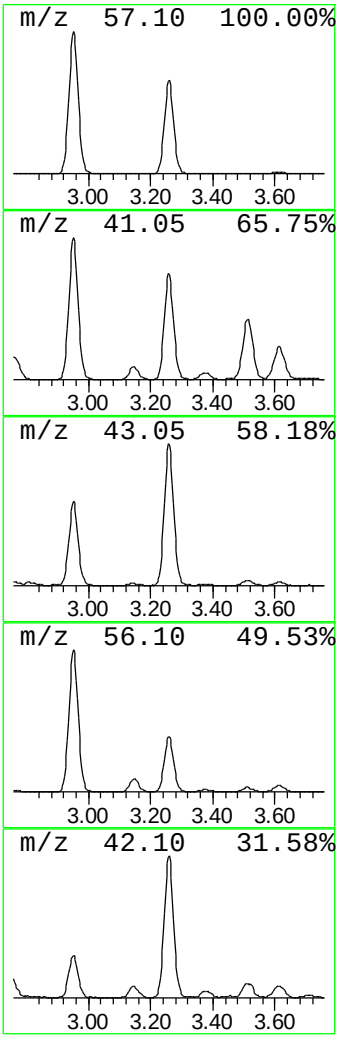
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 51

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.26 | 32.78 ug/L | 548856 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexane | 86 | C6H14 | 000110-54-3 | 91 |
| 2 | n-Hexane | 86 | C6H14 | 000110-54-3 | 90 |
| 3 | n-Hexane | 86 | C6H14 | 000110-54-3 | 90 |
| 4 | Pentane, 2,2,3,4-tetramethyl- | 128 | C9H20 | 001186-53-4 | 50 |
| 5 | Hydroperoxide, hexyl | 118 | C6H14O2 | 004312-76-9 | 33 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

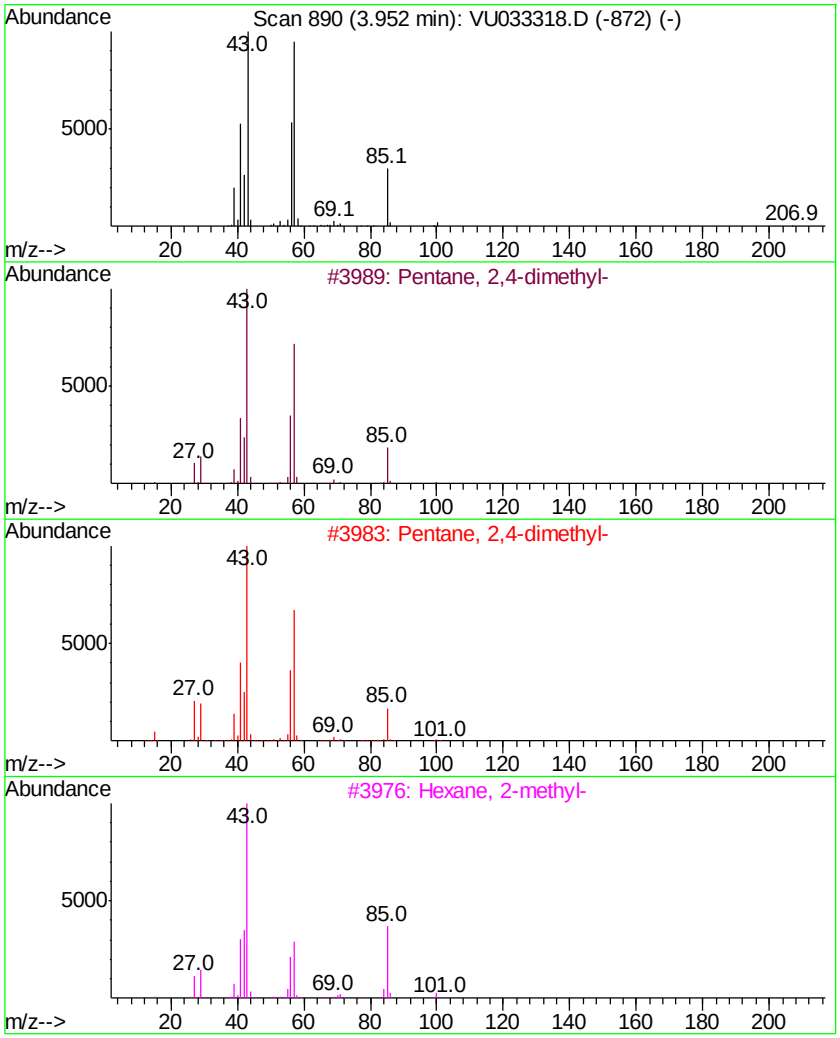
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

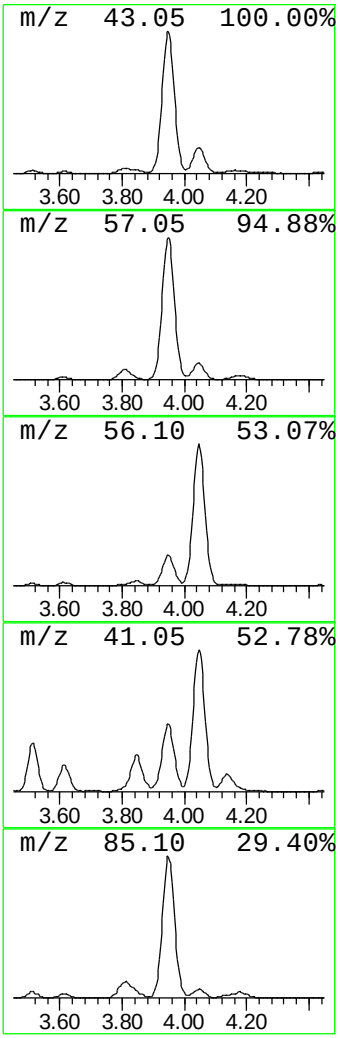
**********

Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.95 | 46.63 ug/L | 780649 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,4-dimethyl- | 100 | C7H16 | 000108-08-7 | 90 |
| 2 | Pentane, 2,4-dimethyl- | 100 | C7H16 | 000108-08-7 | 90 |
| 3 | Hexane, 2-methyl- | 100 | C7H16 | 000591-76-4 | 72 |
| 4 | Pentane, 2,2-dimethyl- | 100 | C7H16 | 000590-35-2 | 64 |
| 5 | Butane, 2,2,3-trimethyl- | 100 | C7H16 | 000464-06-2 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

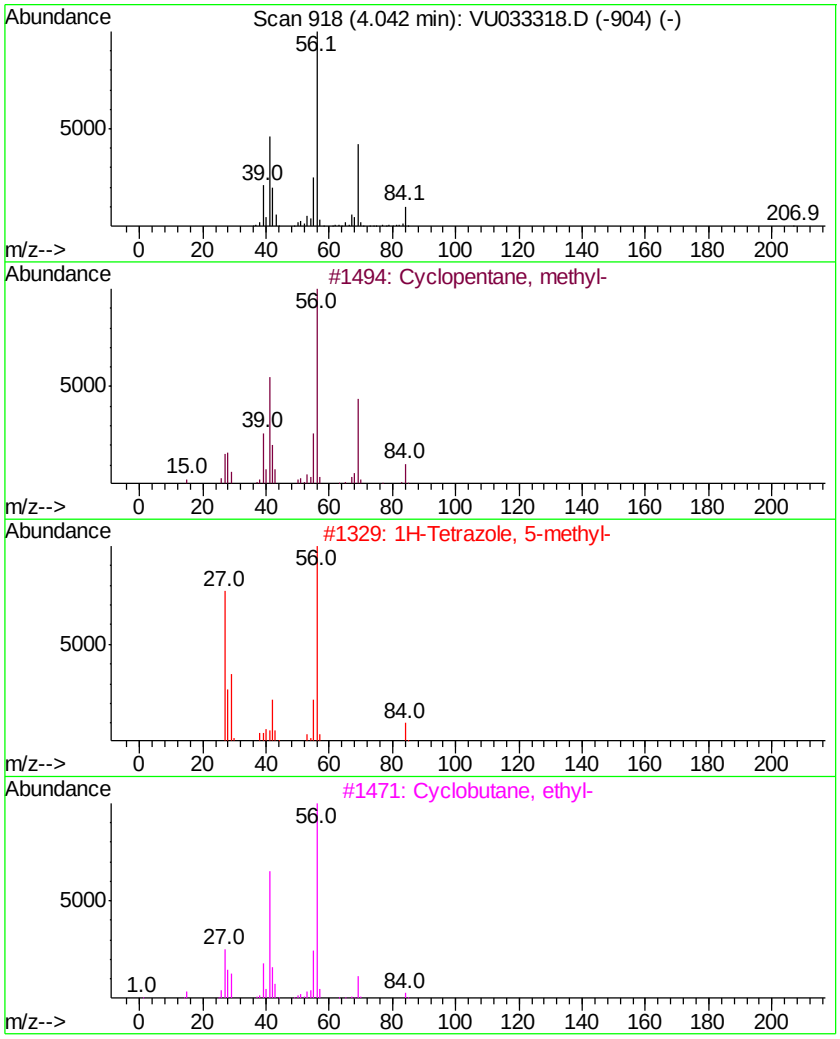
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

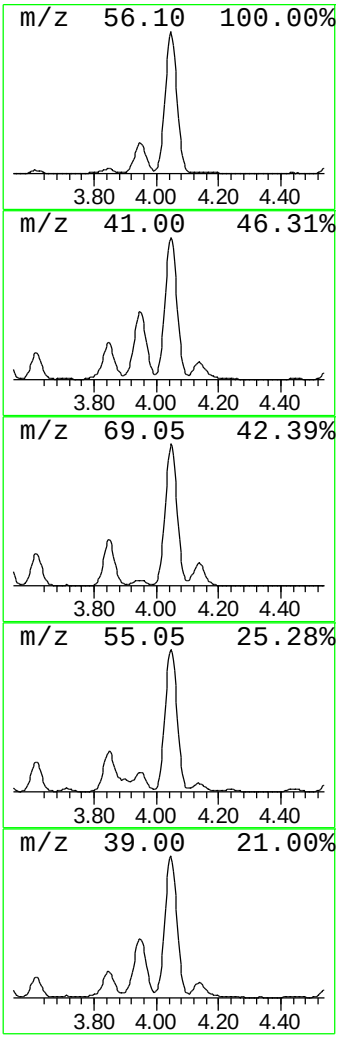
**********

Peak Number 6 (DEL) Alkane: Cyclic4.04 Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.04 | 83.14 ug/L | 1391930 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 94 |
| 2 | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4 | 004076-36-2 | 64 |
| 3 | Cyclobutane, ethyl- | 84 | C6H12 | 004806-61-5 | 64 |
| 4 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 52 |
| 5 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

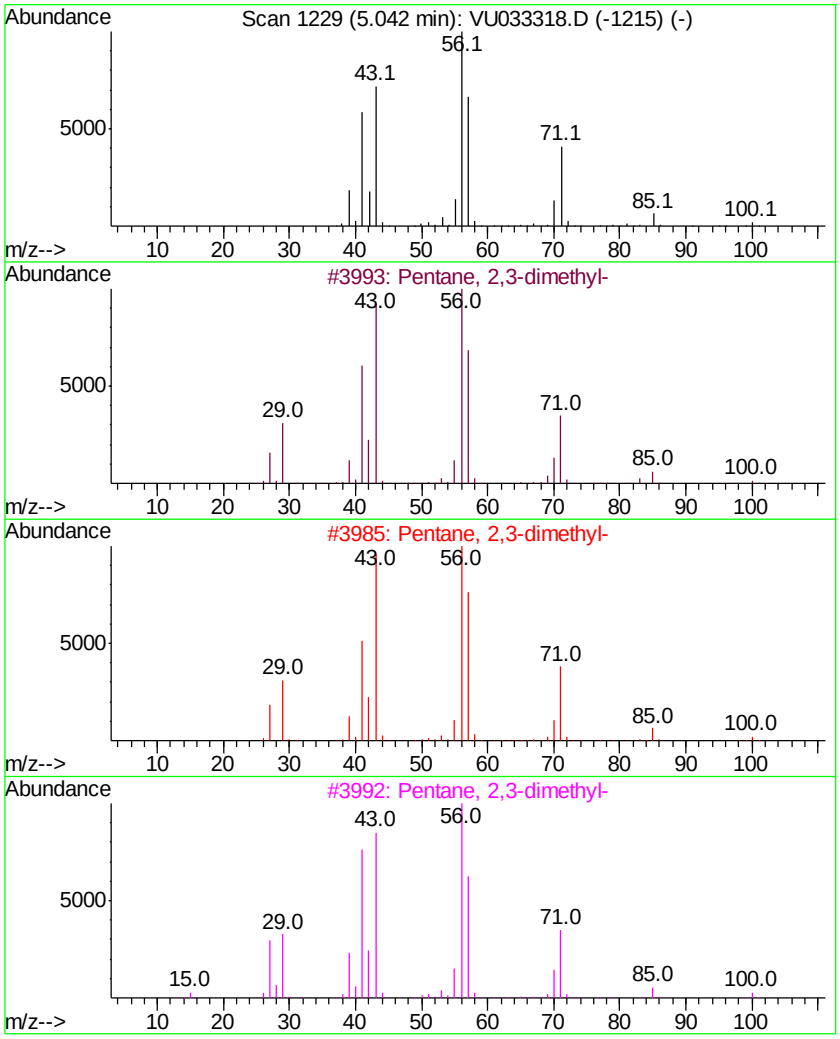
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

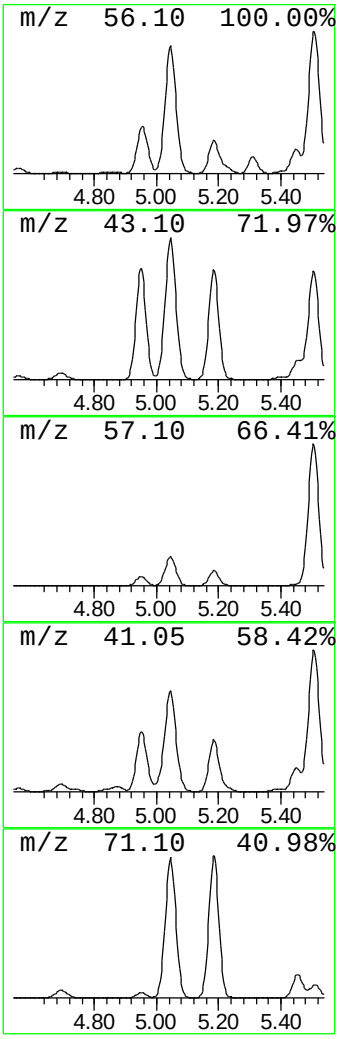
**********

Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.04 | 181.20 ug/L | 3033560 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3-dimethyl- | 100 | C7H16 | 000565-59-3 | 91 |
| 2 | Pentane, 2,3-dimethyl- | 100 | C7H16 | 000565-59-3 | 91 |
| 3 | Pentane, 2,3-dimethyl- | 100 | C7H16 | 000565-59-3 | 87 |
| 4 | Pentane, 2,3-dimethyl- | 100 | C7H16 | 000565-59-3 | 83 |
| 5 | Oxirane, (1-methylethyl)- | 86 | C5H10O | 001438-14-8 | 47 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

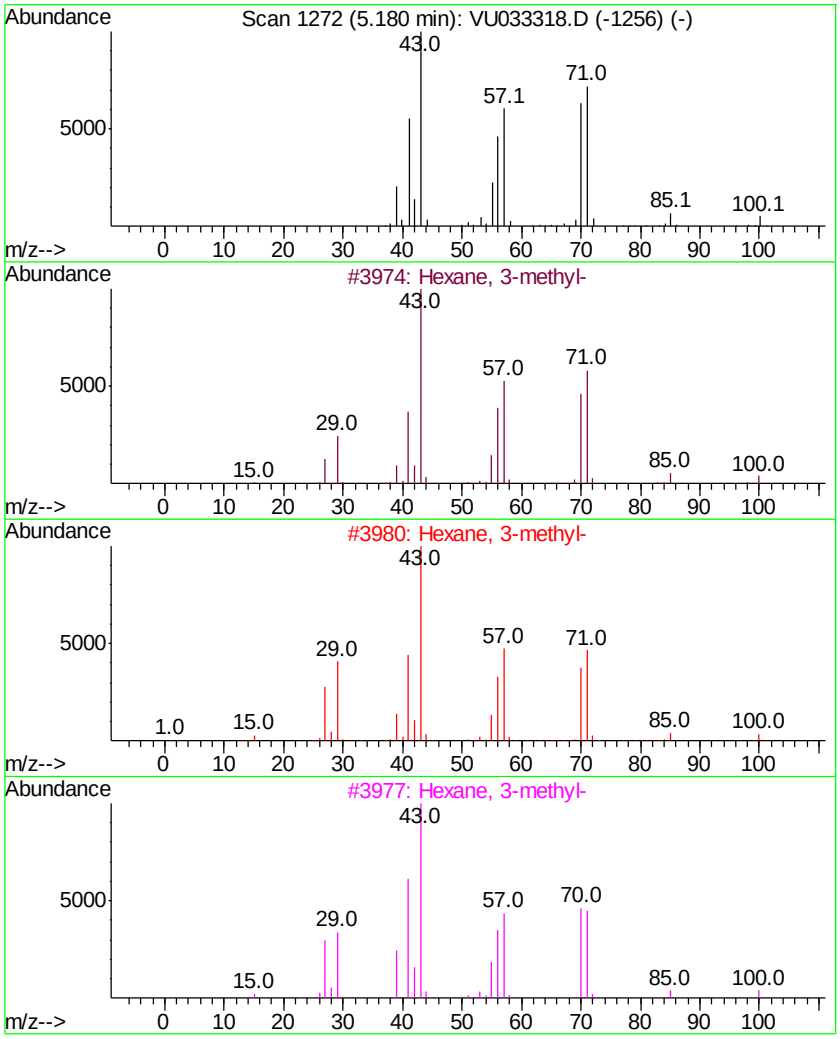
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

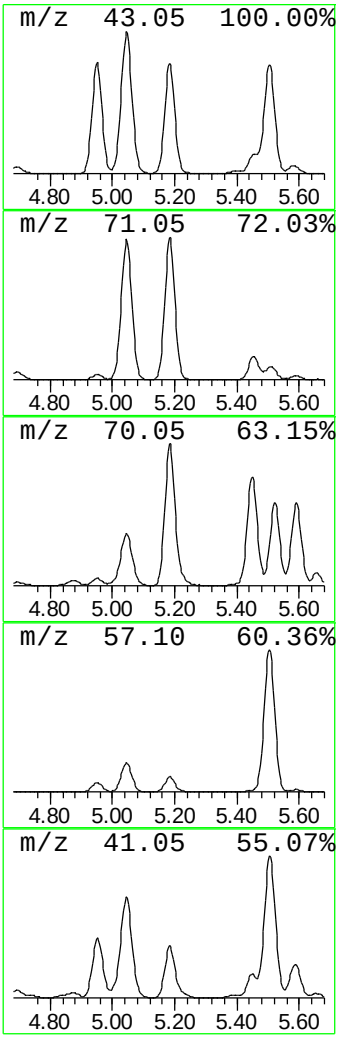
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 8 (DEL) Alkane: Straight-Chai... Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.18 | 107.42 ug/L | 1798320 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 91 |
| 2 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 90 |
| 3 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 74 |
| 4 | Heptane | 100 | C7H16 | 000142-82-5 | 72 |
| 5 | Hexane, 3,3,4-trimethyl- | 128 | C9H20 | 016747-31-2 | 59 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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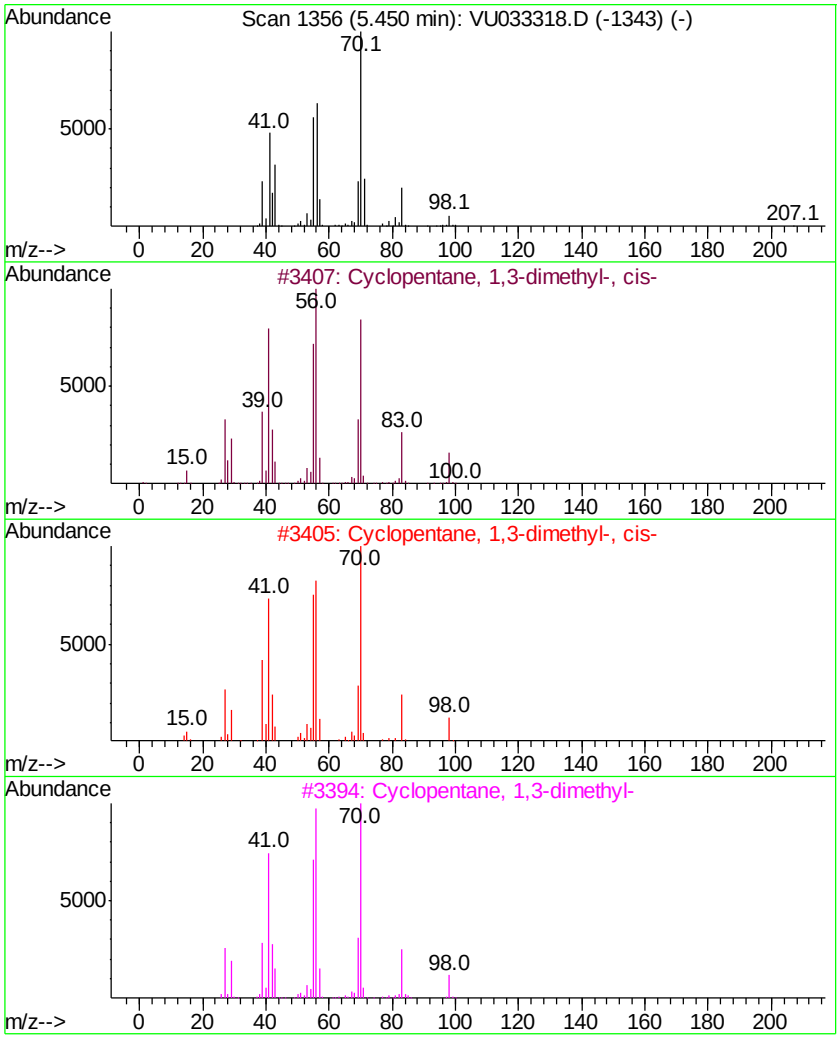
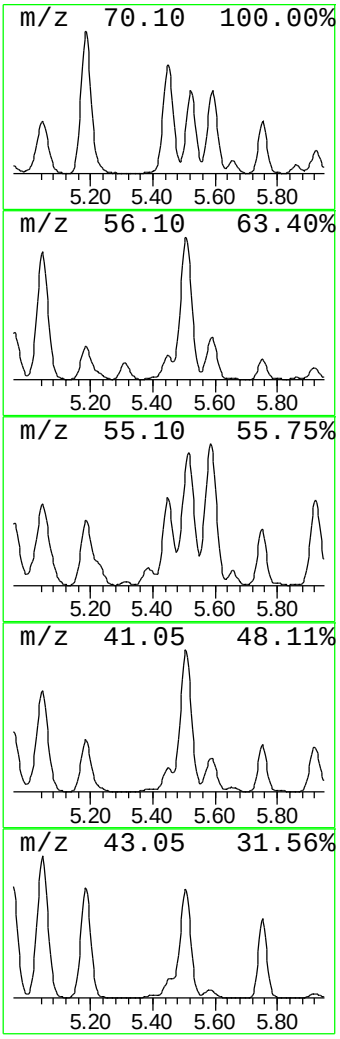
Peak Number 9 (DEL) Alkane: Cyclic5.45 Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.45 | 40.68 ug/L | 681003 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,3-dimethyl-, cis- | 98 | C7H14 | 002532-58-3 | 50 |
| 2 | Cyclopentane, 1,3-dimethyl-, cis- | 98 | C7H14 | 002532-58-3 | 47 |
| 3 | Cyclopentane, 1,3-dimethyl- | 98 | C7H14 | 002453-00-1 | 47 |
| 4 | Hexanal, 3-methyl- | 114 | C7H14O | 019269-28-4 | 40 |
| 5 | Cyclopentane, 1,3-dimethyl-, trans- | 98 | C7H14 | 001759-58-6 | 40 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

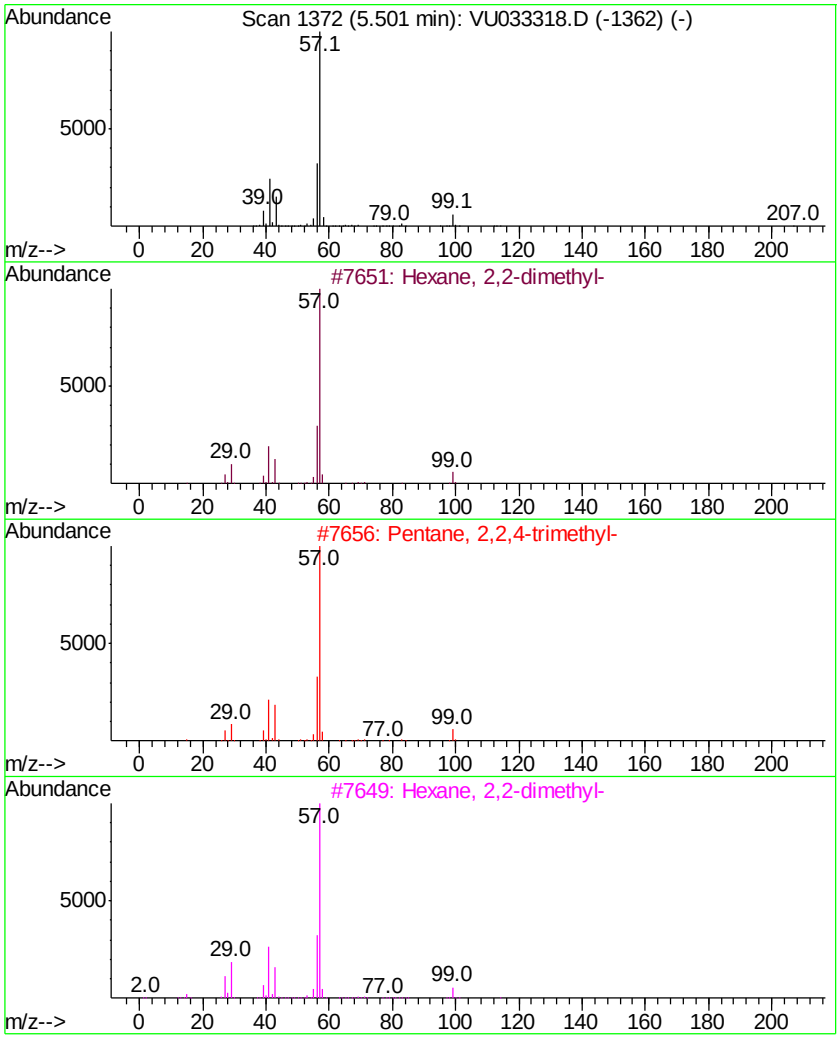
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

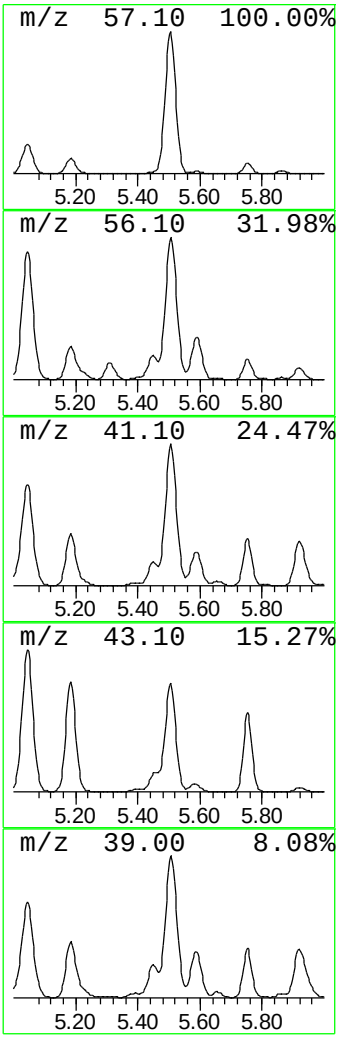
**********

Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.50 | 273.94 ug/L | 4586100 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 2,2-dimethyl- | 114 | C8H18 | 000590-73-8 | 78 |
| 2 | Pentane, 2,2,4-trimethyl- | 114 | C8H18 | 000540-84-1 | 72 |
| 3 | Hexane, 2,2-dimethyl- | 114 | C8H18 | 000590-73-8 | 72 |
| 4 | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18 | 000594-82-1 | 72 |
| 5 | Pentane, 2,2,4-trimethyl- | 114 | C8H18 | 000540-84-1 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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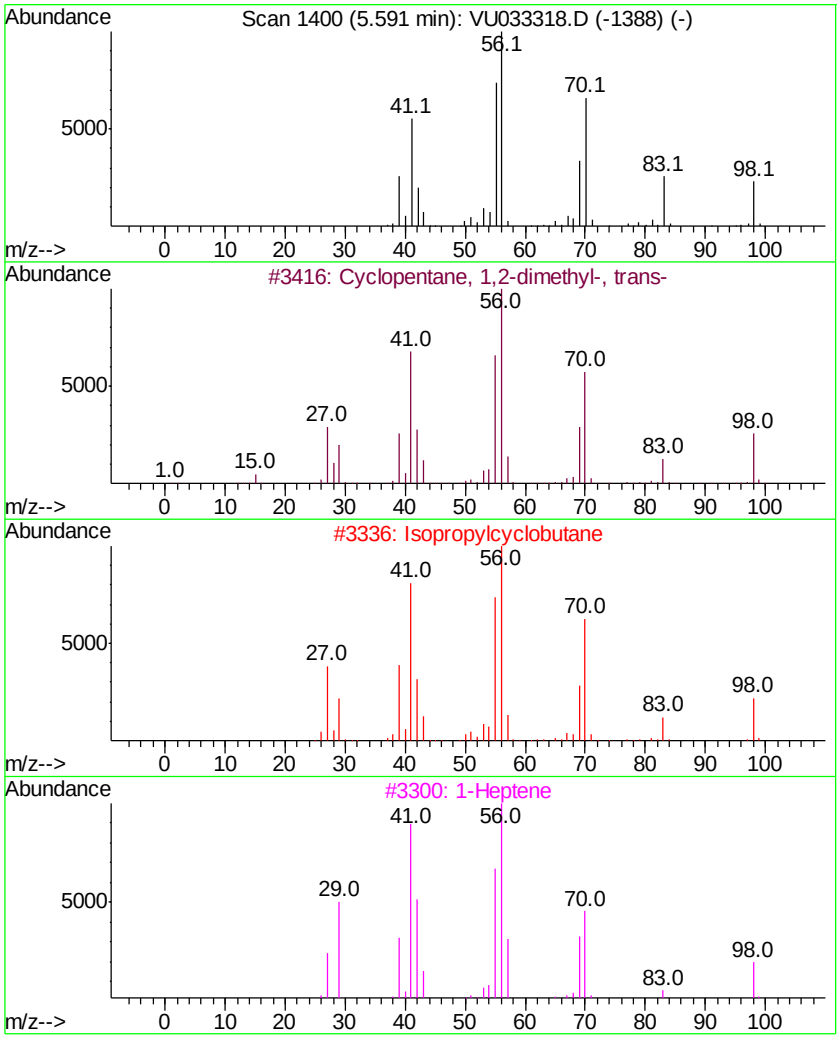
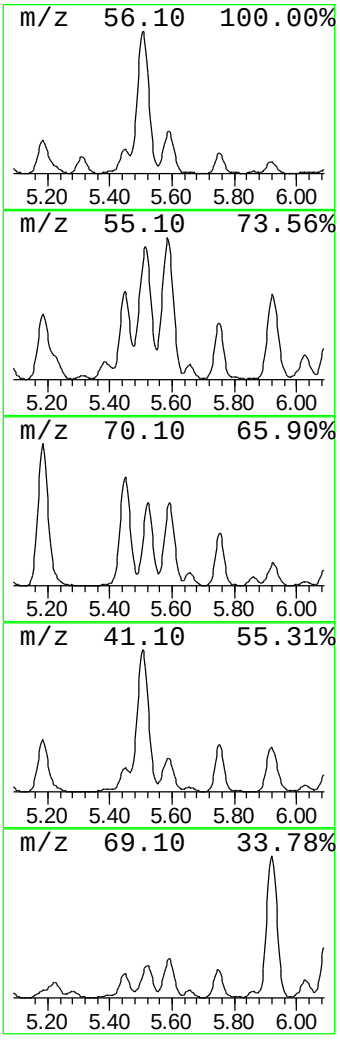
Peak Number 11 (DEL) Alkane: Cyclic5.59 Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.59 | 63.15 ug/L | 1057280 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,2-dimethyl-, trans- | 98 | C7H14 | 000822-50-4 | 87 |
| 2 | Isopropylcyclobutane | 98 | C7H14 | 000872-56-0 | 87 |
| 3 | 1-Heptene | 98 | C7H14 | 000592-76-7 | 72 |
| 4 | Cyclopentane, 1,2-dimethyl-, trans- | 98 | C7H14 | 000822-50-4 | 72 |
| 5 | 3-Heptene | 98 | C7H14 | 000592-78-9 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

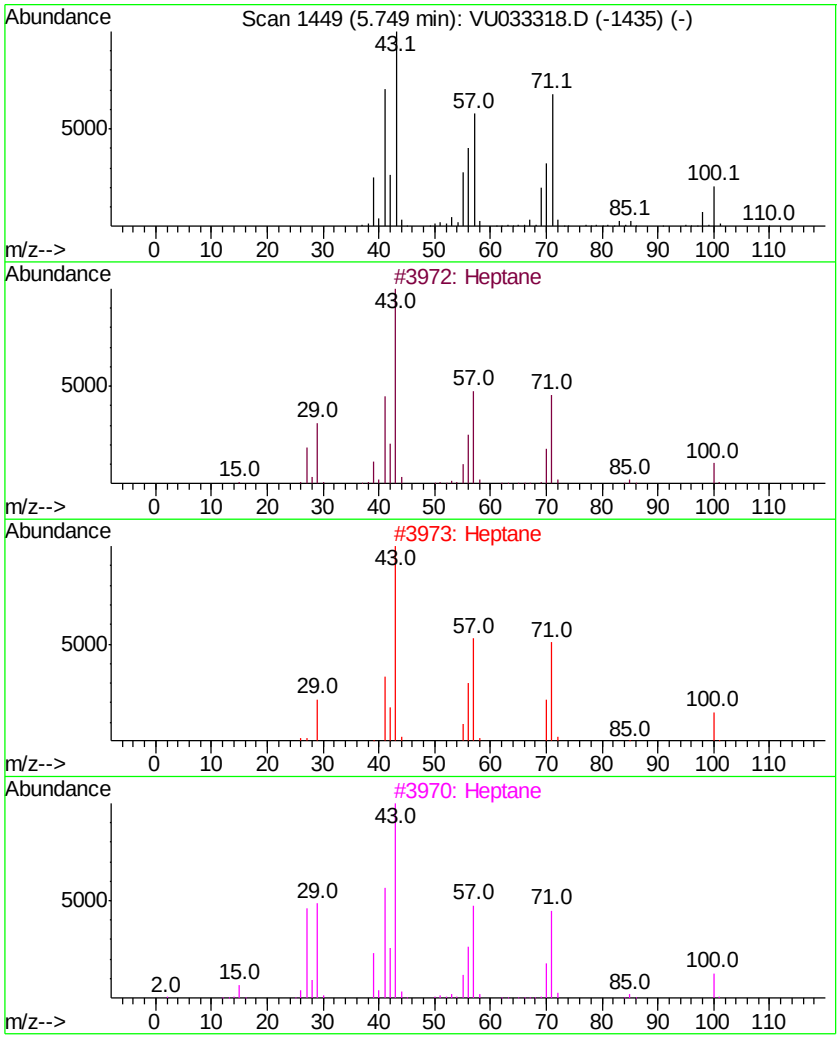
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

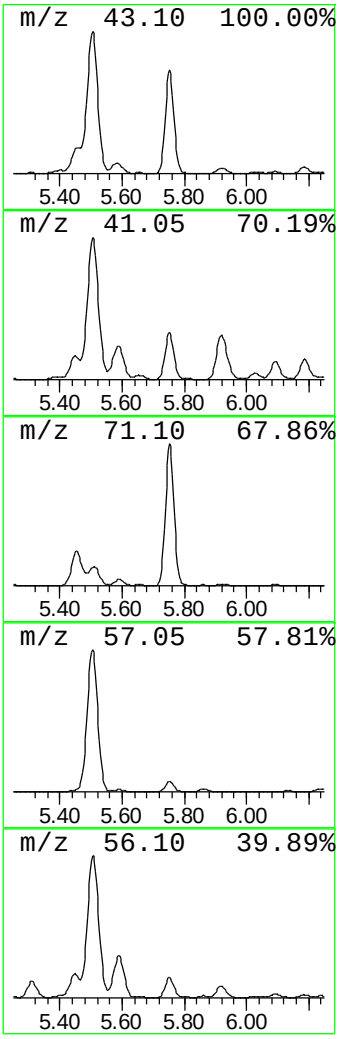
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.75 | 66.26 ug/L | 1109310 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane | 100 | C7H16 | 000142-82-5 | 87 |
| 2 | Heptane | 100 | C7H16 | 000142-82-5 | 86 |
| 3 | Heptane | 100 | C7H16 | 000142-82-5 | 72 |
| 4 | Heptane | 100 | C7H16 | 000142-82-5 | 52 |
| 5 | 2,4,4-Trimethyl-1-hexene | 126 | C9H18 | 051174-12-0 | 43 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

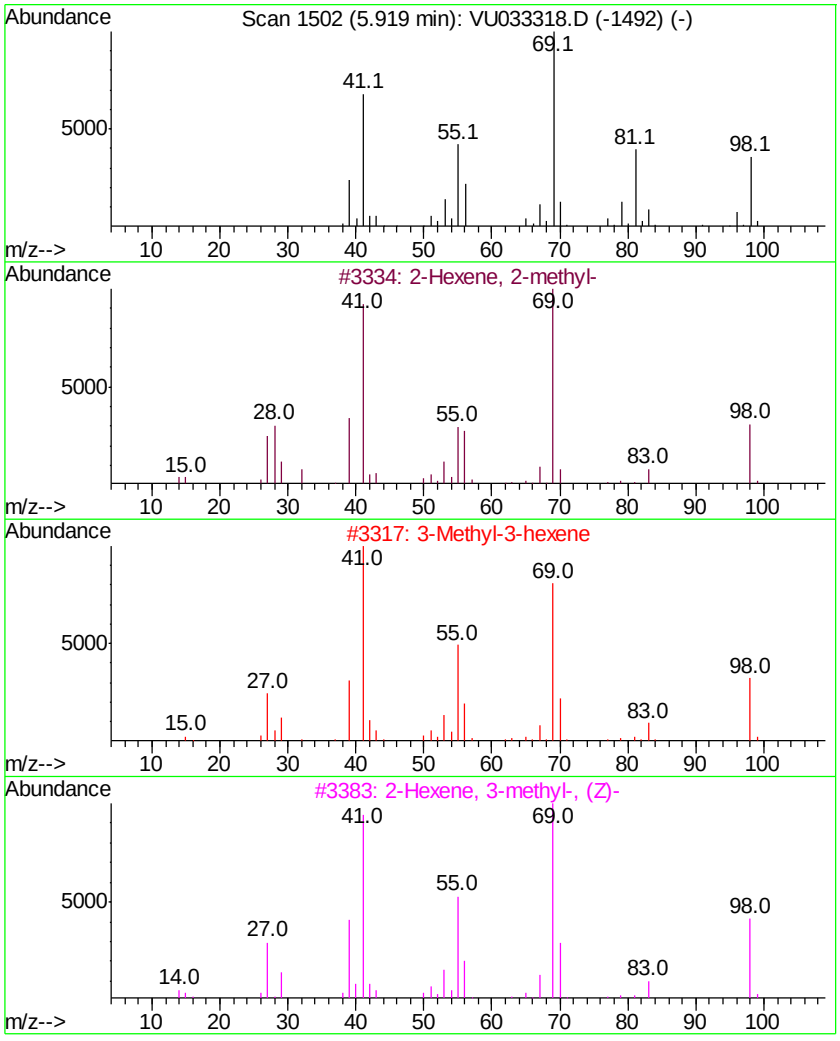
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

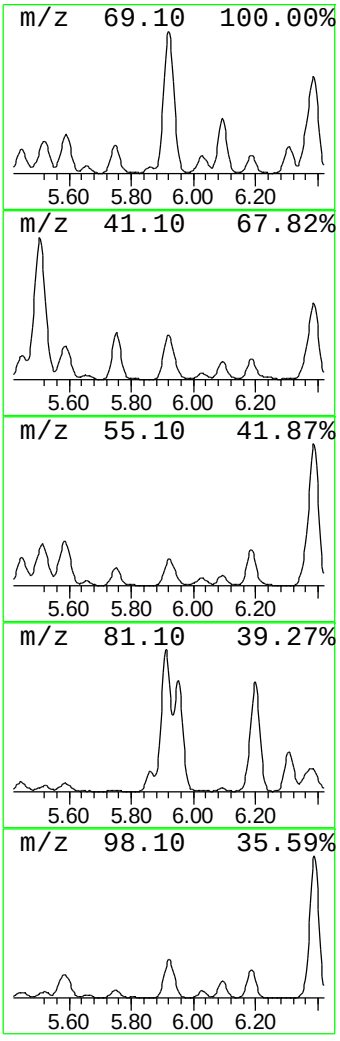
**********

Peak Number 13 (DEL) Alkane: Cyclic5.92 Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.92 | 79.95 ug/L | 1338450 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Hexene, 2-methyl- | 98 | C7H14 | 002738-19-4 | 81 |
| 2 | 3-Methyl-3-hexene | 98 | C7H14 | 003404-65-7 | 81 |
| 3 | 2-Hexene, 3-methyl-, (Z)- | 98 | C7H14 | 010574-36-4 | 76 |
| 4 | 3-Hexene, 3-methyl-, (E)- | 98 | C7H14 | 003899-36-3 | 74 |
| 5 | 2-Hexene, 3-methyl-, (Z)- | 98 | C7H14 | 010574-36-4 | 74 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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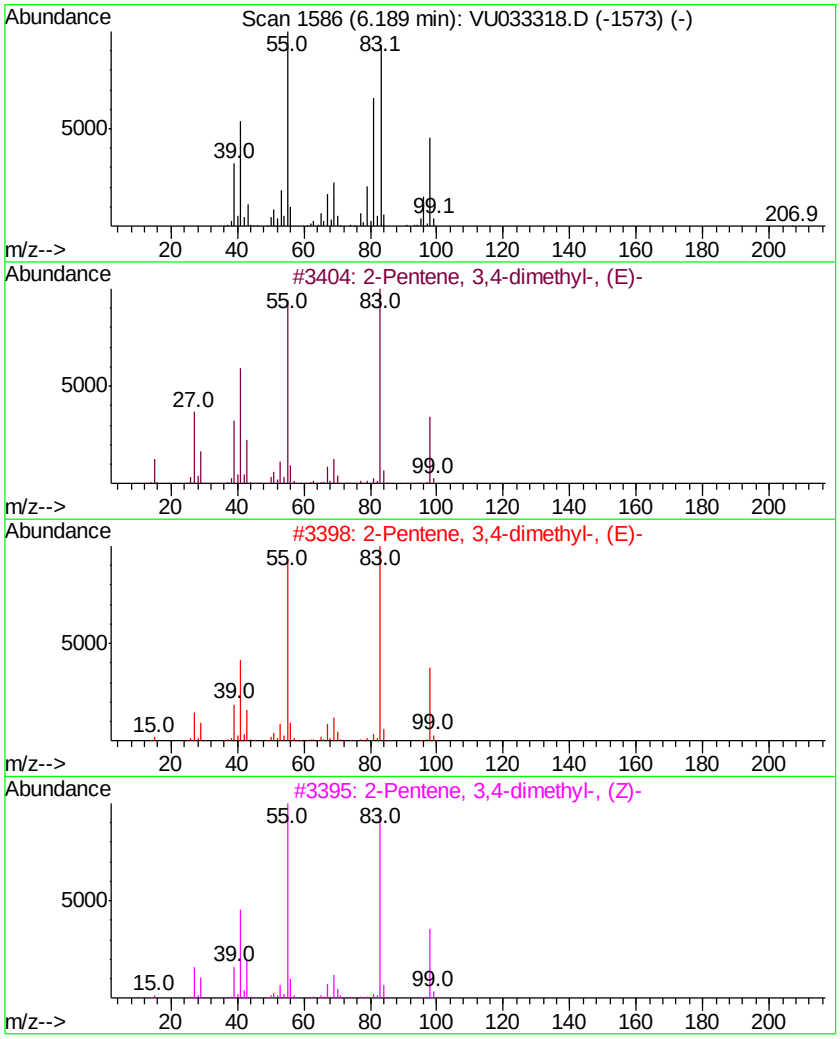
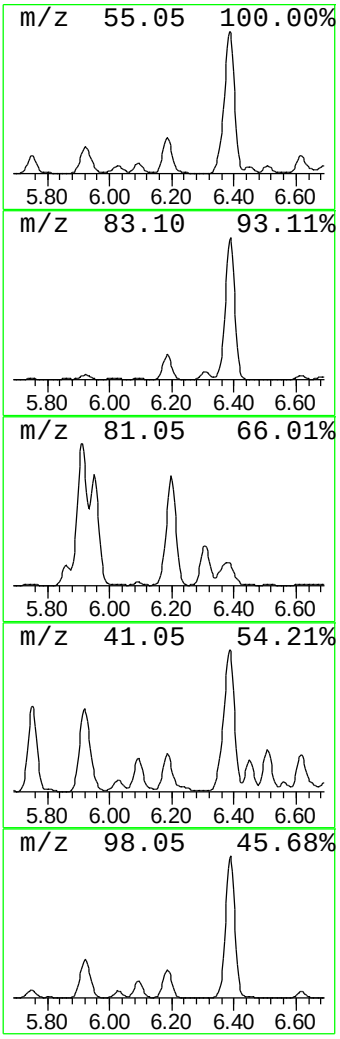
Peak Number 14 (DEL) Alkane: Cyclic6.19 Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.19 | 46.67 ug/L | 781322 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14 | 004914-92-5 | 76 |
| 2 | 2-Pentene, 3,4-dimethyl-, (E)- | 98 | C7H14 | 004914-92-5 | 68 |
| 3 | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14 | 004914-91-4 | 68 |
| 4 | 2-Pentene, 3,4-dimethyl-, (Z)- | 98 | C7H14 | 004914-91-4 | 68 |
| 5 | Cyclohexane, methyl- | 98 | C7H14 | 000108-87-2 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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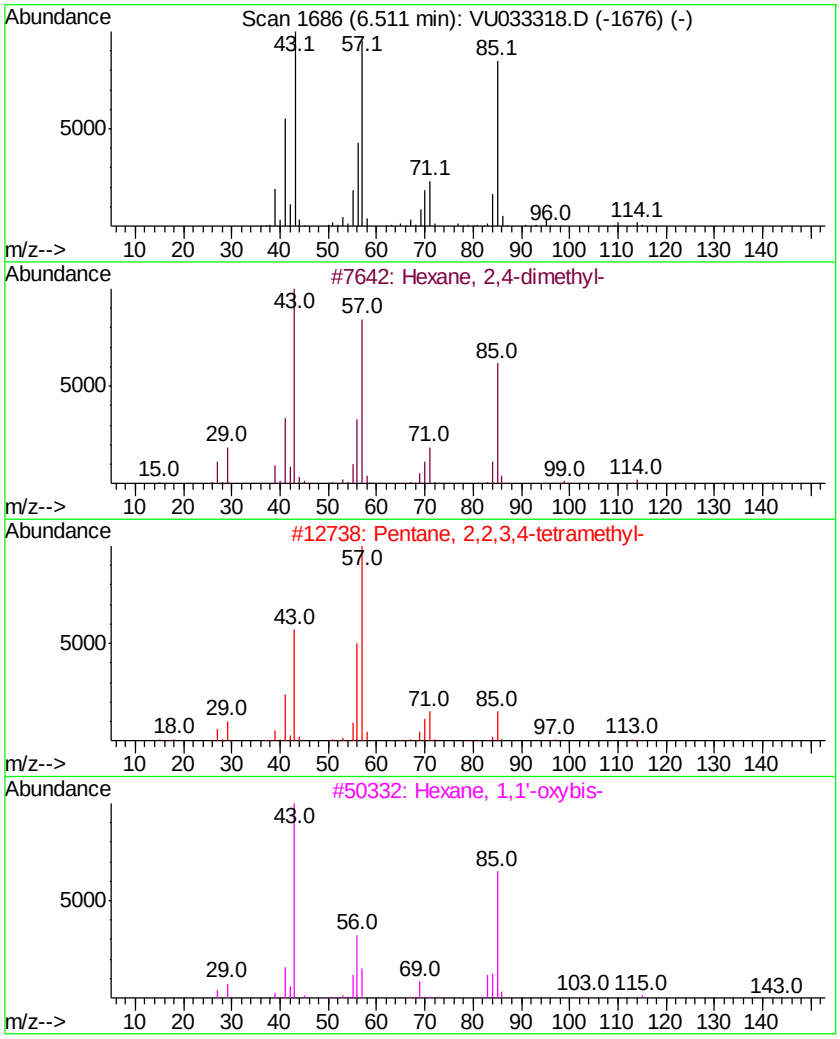
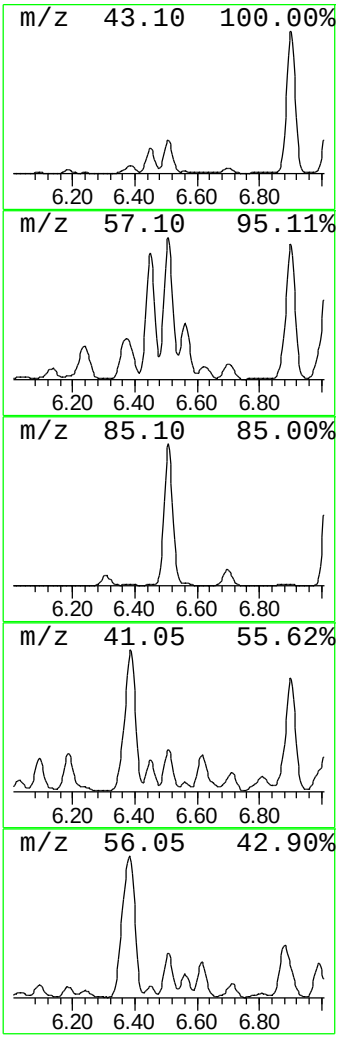
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 49

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.51 | 33.85 ug/L | 566705 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 91 |
| 2 | Pentane, 2,2,3,4-tetramethyl- | 128 | C9H20 | 001186-53-4 | 83 |
| 3 | Hexane, 1,1'-oxybis- | 186 | C12H26O | 000112-58-3 | 59 |
| 4 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 58 |
| 5 | Pentane, 2,2-dimethyl- | 100 | C7H16 | 000590-35-2 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

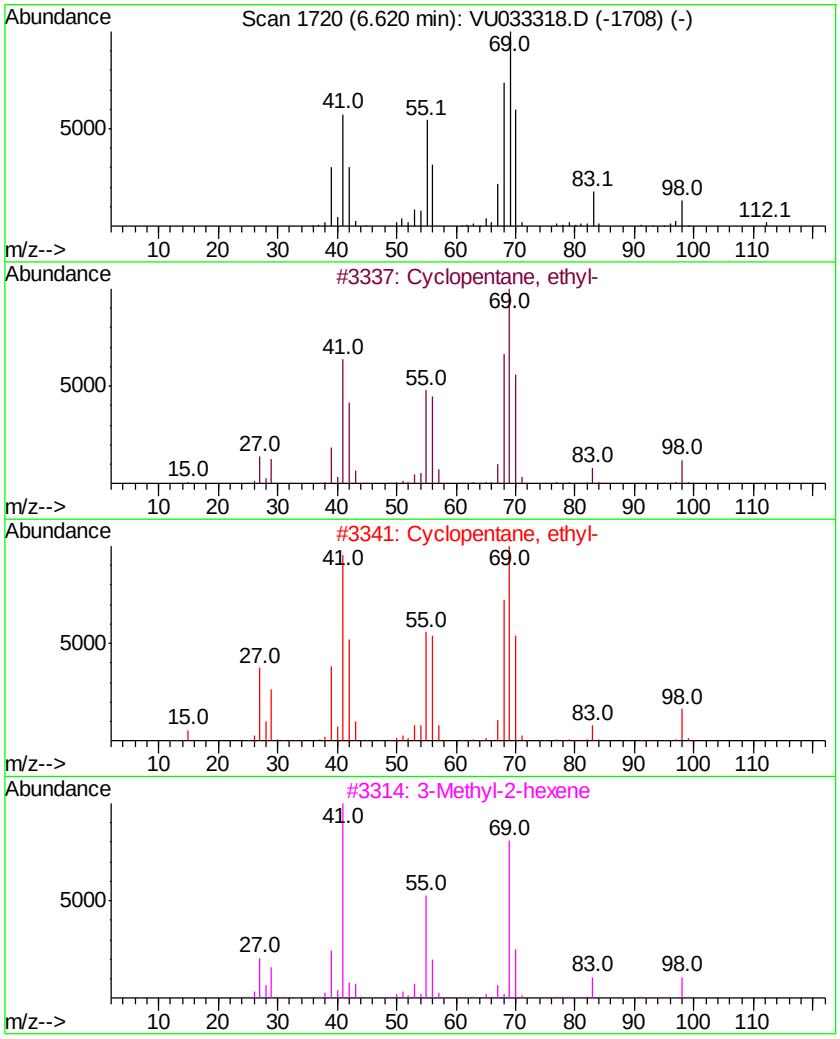
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

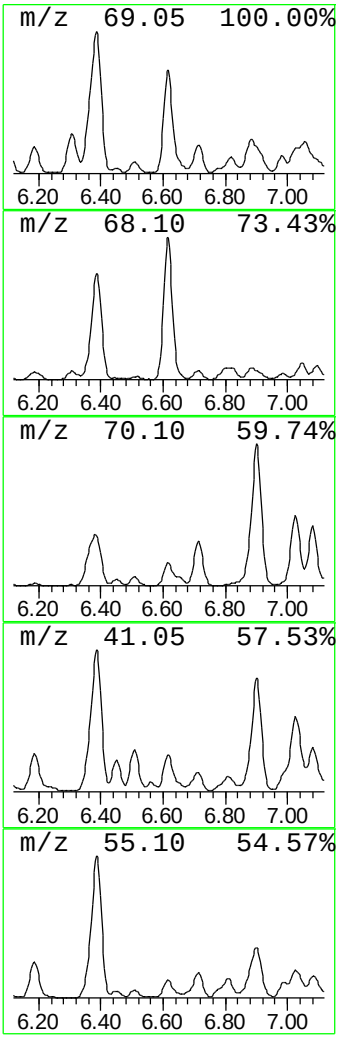
**********

Peak Number 16 (DEL) Alkane: Cyclic6.62 Concentration Rank 55

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.62 | 30.41 ug/L | 509116 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, ethyl- | 98 | C7H14 | 001640-89-7 | 83 |
| 2 | Cyclopentane, ethyl- | 98 | C7H14 | 001640-89-7 | 80 |
| 3 | 3-Methyl-2-hexene | 98 | C7H14 | 017618-77-8 | 43 |
| 4 | 3-Hexene, 2-methyl-, (E)- | 98 | C7H14 | 000692-24-0 | 35 |
| 5 | 1-Pentene, 3,3-dimethyl- | 98 | C7H14 | 003404-73-7 | 35 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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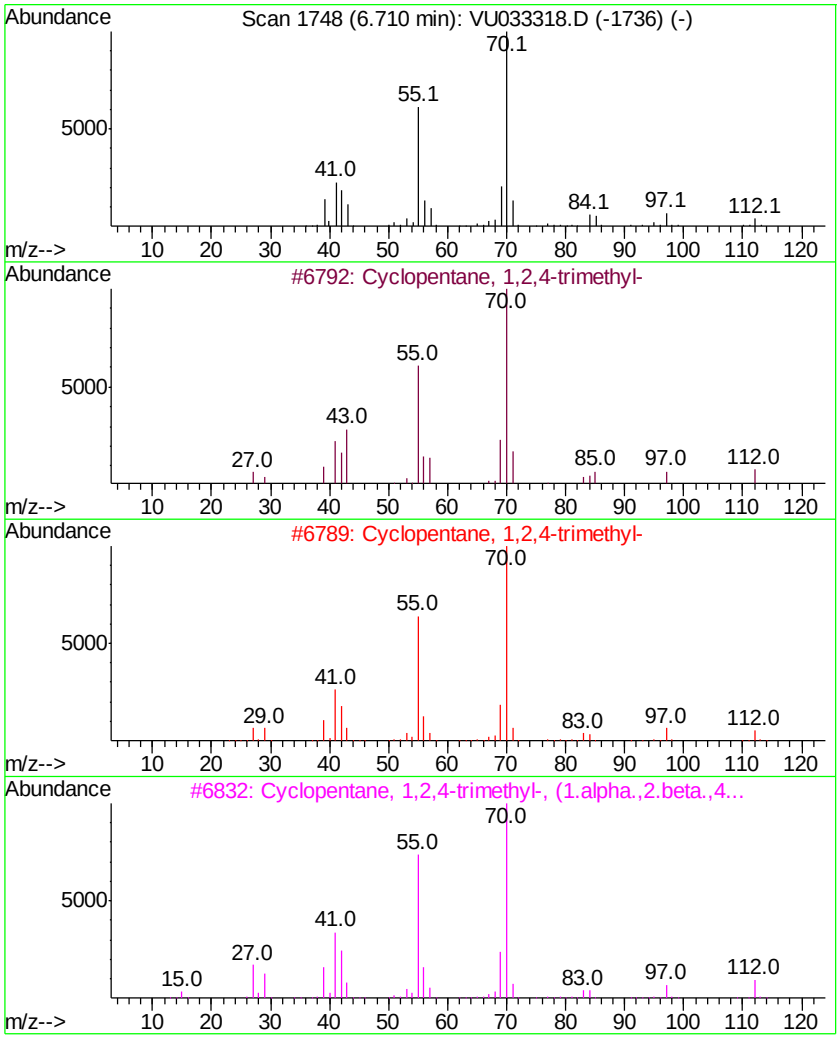
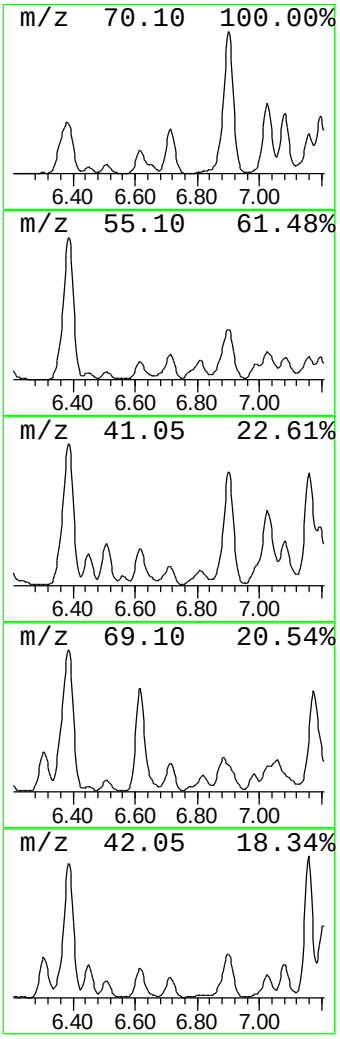
Peak Number 17 (DEL) Alkane: Cyclic6.71 Concentration Rank 60

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.71 | 28.67 ug/L | 479909 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,2,4-trimethyl- | 112 | C8H16 | 002815-58-9 | 91 |
| 2 | Cyclopentane, 1,2,4-trimethyl- | 112 | C8H16 | 002815-58-9 | 87 |
| 3 | Cyclopentane, 1,2,4-trimethyl-, ... | 112 | C8H16 | 016883-48-0 | 87 |
| 4 | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16 | 002613-69-6 | 80 |
| 5 | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16 | 002613-69-6 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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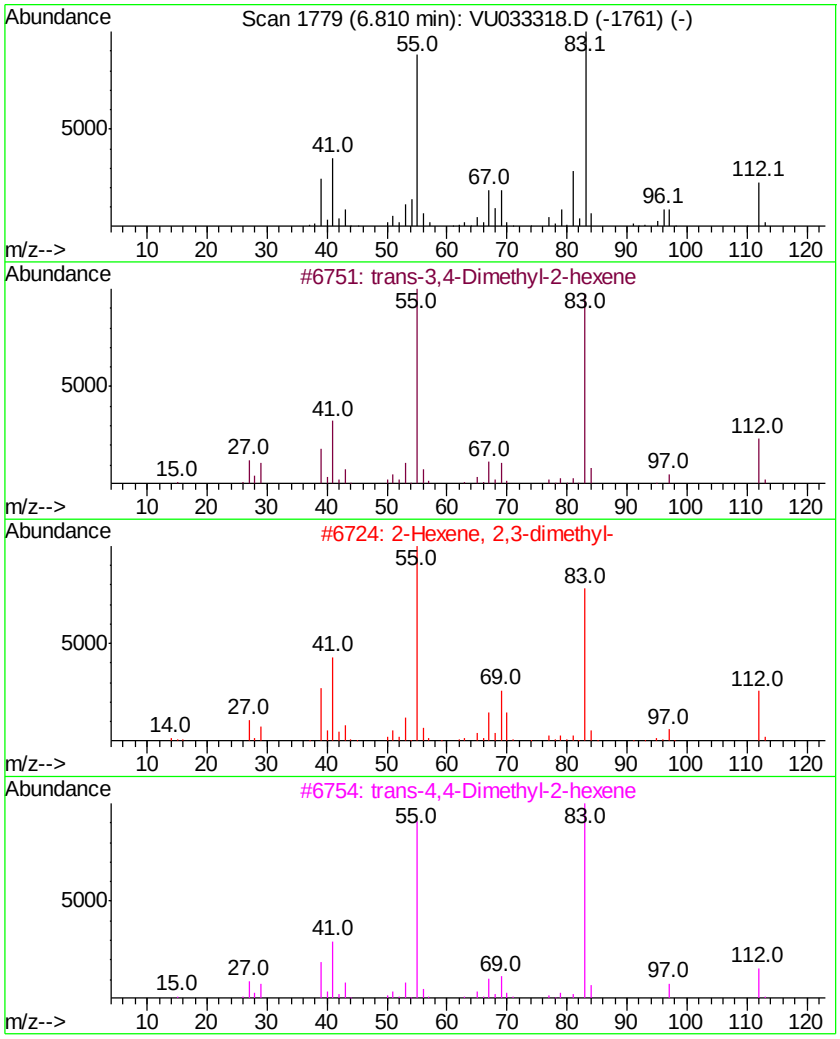
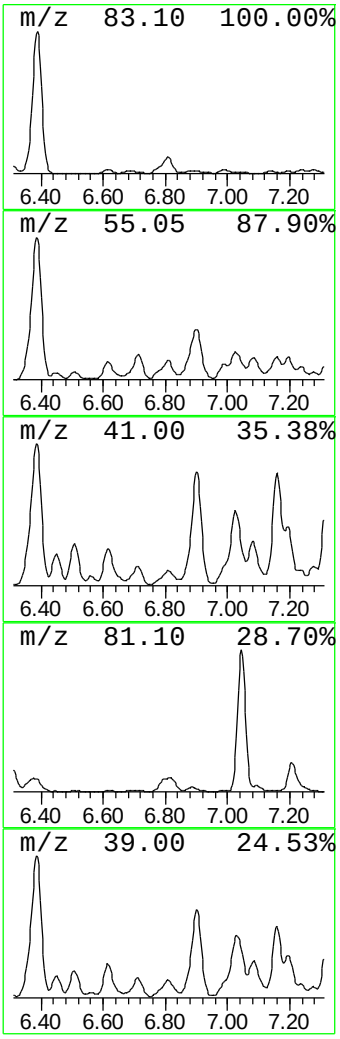
Peak Number 18 (DEL) Alkane: Cyclic6.81 Concentration Rank 63

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.81 | 26.88 ug/L | 450026 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | trans-3,4-Dimethyl-2-hexene | 112 | C8H16 | 019550-82-4 | 81 |
| 2 | 2-Hexene, 2,3-dimethyl- | 112 | C8H16 | 007145-20-2 | 81 |
| 3 | trans-4,4-Dimethyl-2-hexene | 112 | C8H16 | 019550-83-5 | 81 |
| 4 | 2-Hexene, 2,3-dimethyl- | 112 | C8H16 | 007145-20-2 | 81 |
| 5 | 2-Hexene, 2,4-dimethyl- | 112 | C8H16 | 014255-23-3 | 74 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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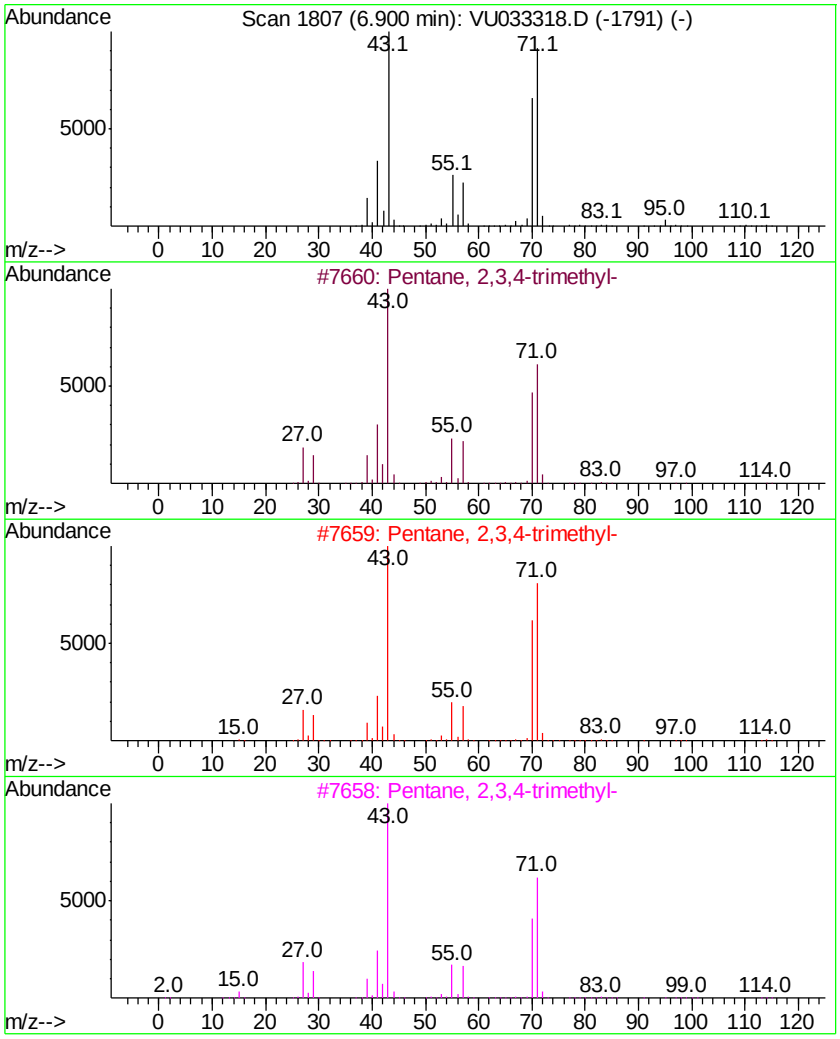
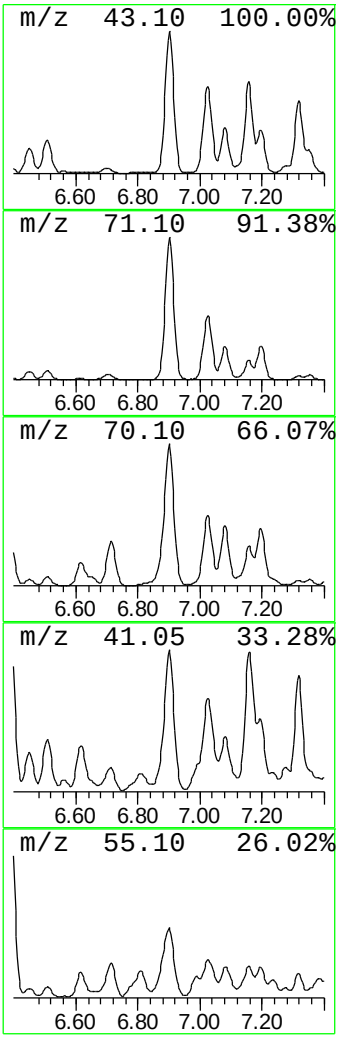
Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.90 | 153.33 ug/L | 2566990 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 91 |
| 2 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 90 |
| 3 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 86 |
| 4 | Heptane, 3,3,4-trimethyl- | 142 | C10H22 | 020278-87-9 | 83 |
| 5 | Pentane, 3-ethyl- | 100 | C7H16 | 000617-78-7 | 83 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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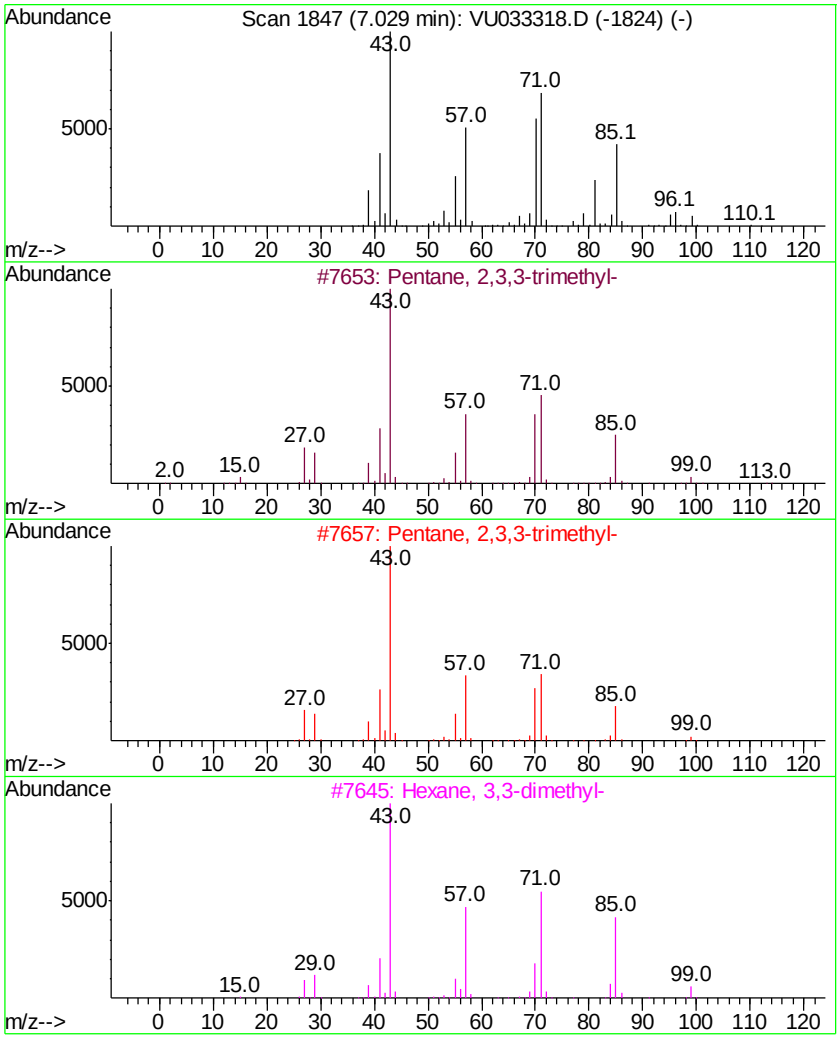
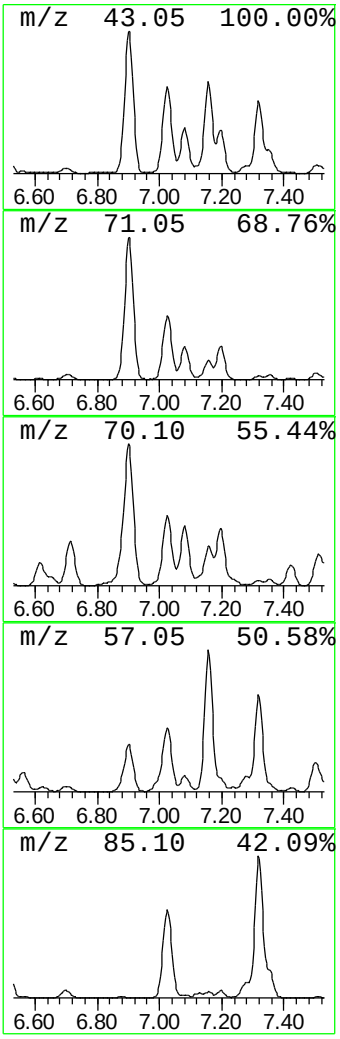
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.03 | 138.59 ug/L | 2320080 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,3-trimethyl- | 114 | C8H18 | 000560-21-4 | 90 |
| 2 | Pentane, 2,3,3-trimethyl- | 114 | C8H18 | 000560-21-4 | 78 |
| 3 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 59 |
| 4 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 59 |
| 5 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

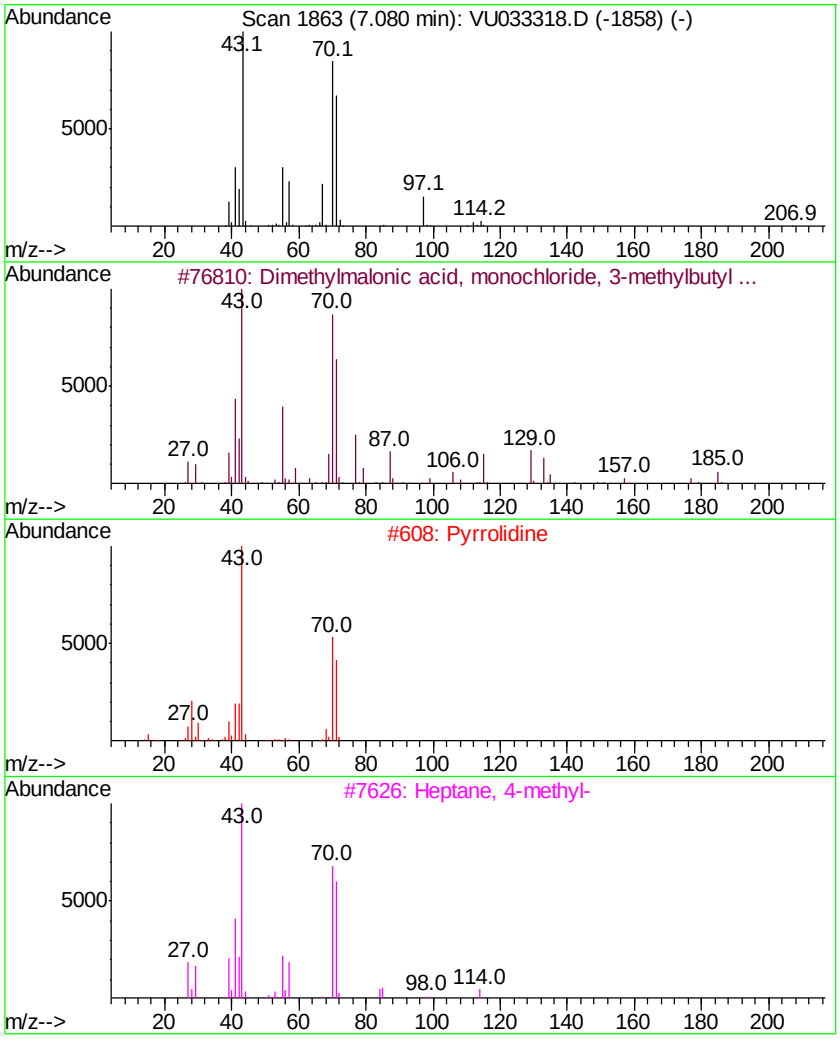
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

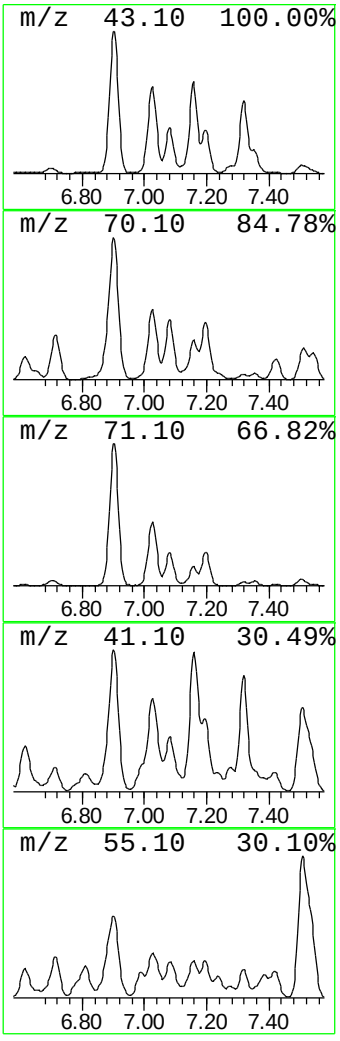
**********

Peak Number 21 Dimethylmalonic acid, monoc... Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.08 | 38.97 ug/L | 652356 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dimethylmalonic acid, monochlori... | 220 | C10H17ClO3 | 1000361-60-7 | 59 |
| 2 | Pyrrolidine | 71 | C4H9N | 000123-75-1 | 59 |
| 3 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 59 |
| 4 | Hexane, 2,3-dimethyl- | 114 | C8H18 | 000584-94-1 | 59 |
| 5 | Hexane, 2,3-dimethyl- | 114 | C8H18 | 000584-94-1 | 58 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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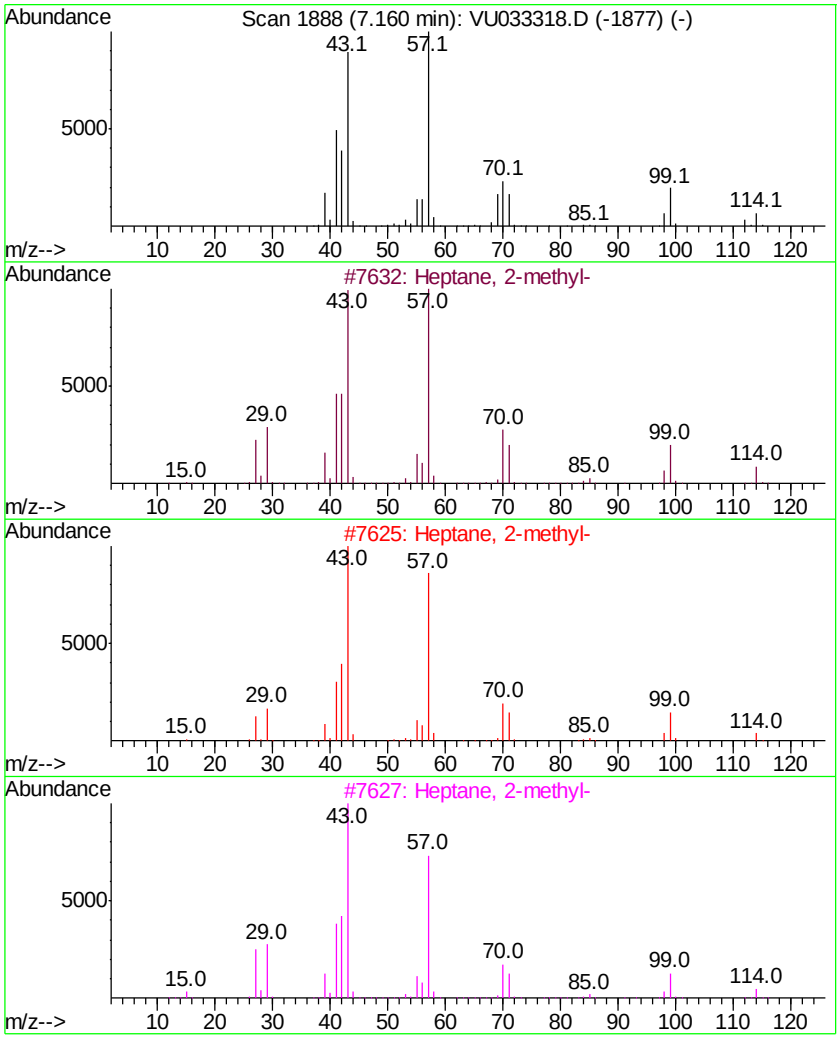
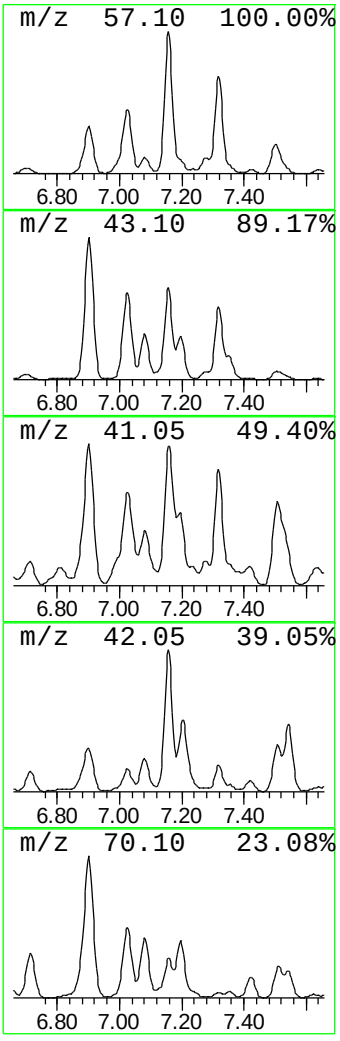
Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.16 | 82.38 ug/L | 1379200 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 93 |
| 2 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 91 |
| 3 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 91 |
| 4 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 81 |
| 5 | Heptane, 1,1'-oxybis- | 214 | C14H30O | 000629-64-1 | 53 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

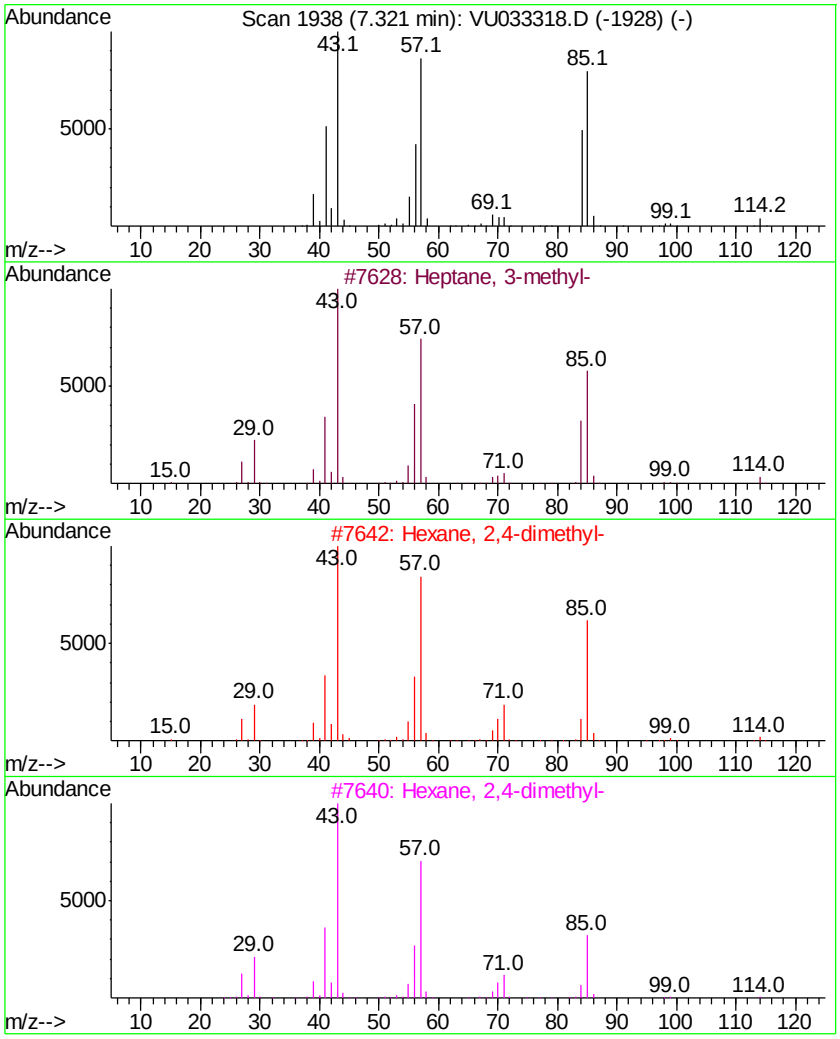
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

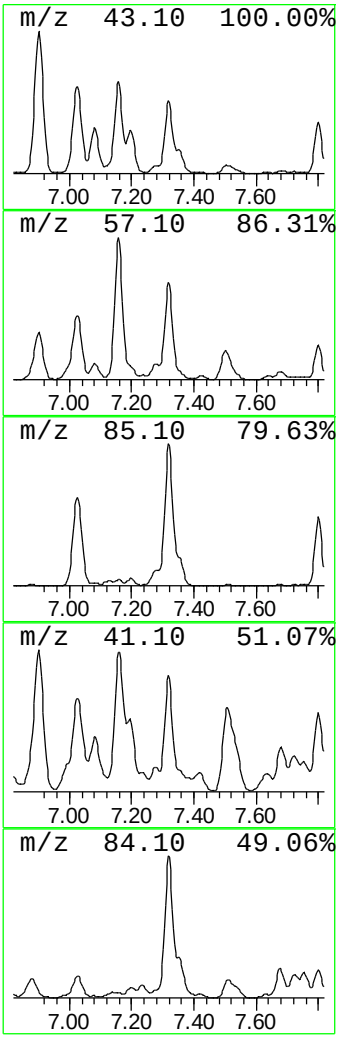
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 24 (DEL) Alkane: Straight-Chai... Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.32 | 63.54 ug/L | 1063740 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-methyl- | 114 | C8H18 | 000589-81-1 | 91 |
| 2 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 83 |
| 3 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 72 |
| 4 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 72 |
| 5 | Heptane, 3-methyl- | 114 | C8H18 | 000589-81-1 | 68 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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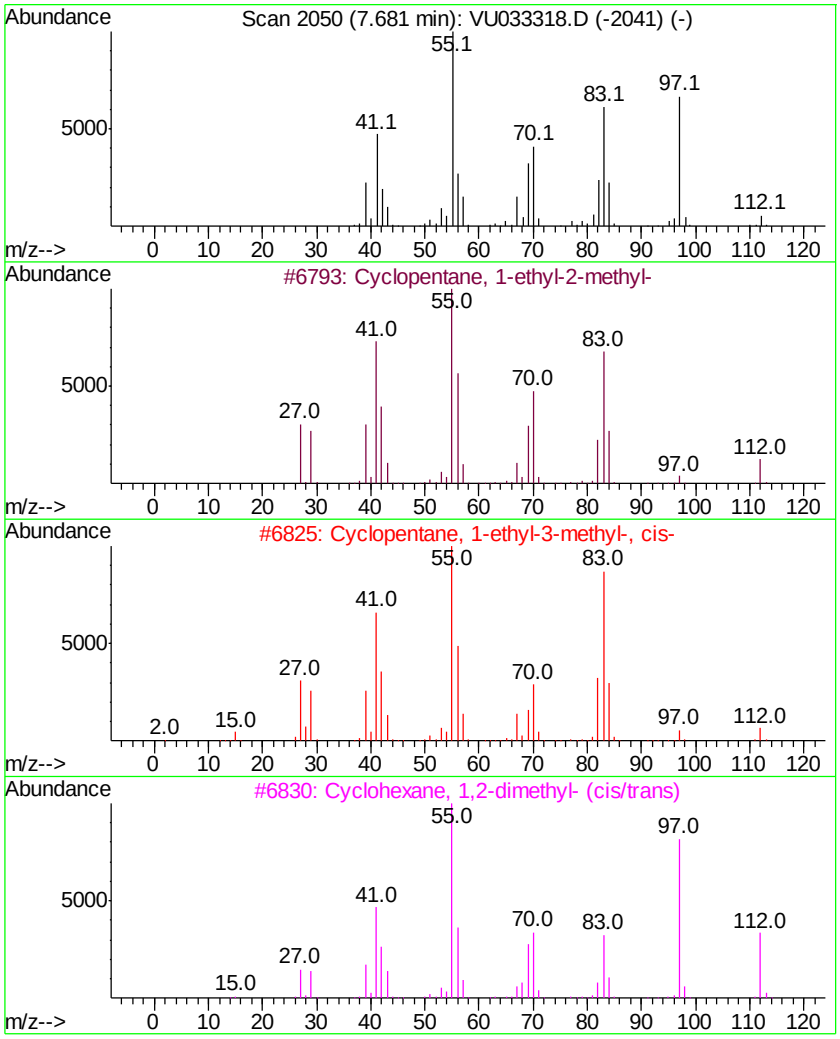
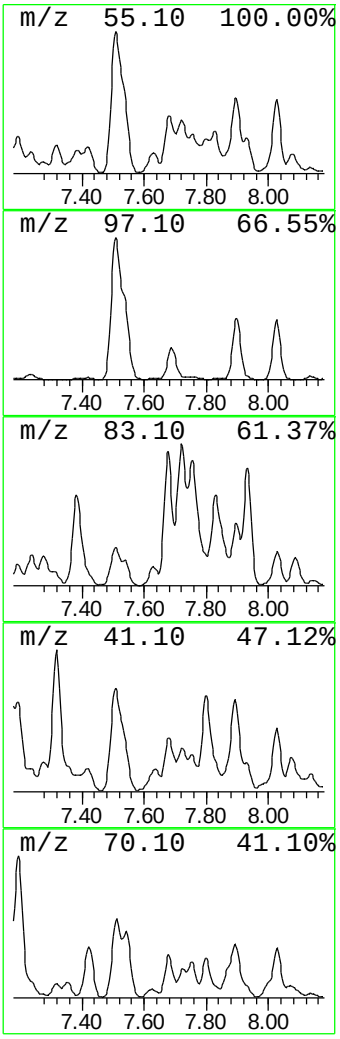
Peak Number 25 (DEL) Alkane: Cyclic7.68 Concentration Rank 70

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.68 | 22.55 ug/L | 491755 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1-ethyl-2-methyl- | 112 | C8H16 | 003726-46-3 | 70 |
| 2 | Cyclopentane, 1-ethyl-3-methyl-,... | 112 | C8H16 | 002613-66-3 | 64 |
| 3 | Cyclohexane, 1,2-dimethyl- (cis/... | 112 | C8H16 | 000583-57-3 | 64 |
| 4 | Cyclopentane, 1-ethyl-3-methyl- | 112 | C8H16 | 003726-47-4 | 64 |
| 5 | Cyclopentane, 1-ethyl-3-methyl-,... | 112 | C8H16 | 002613-65-2 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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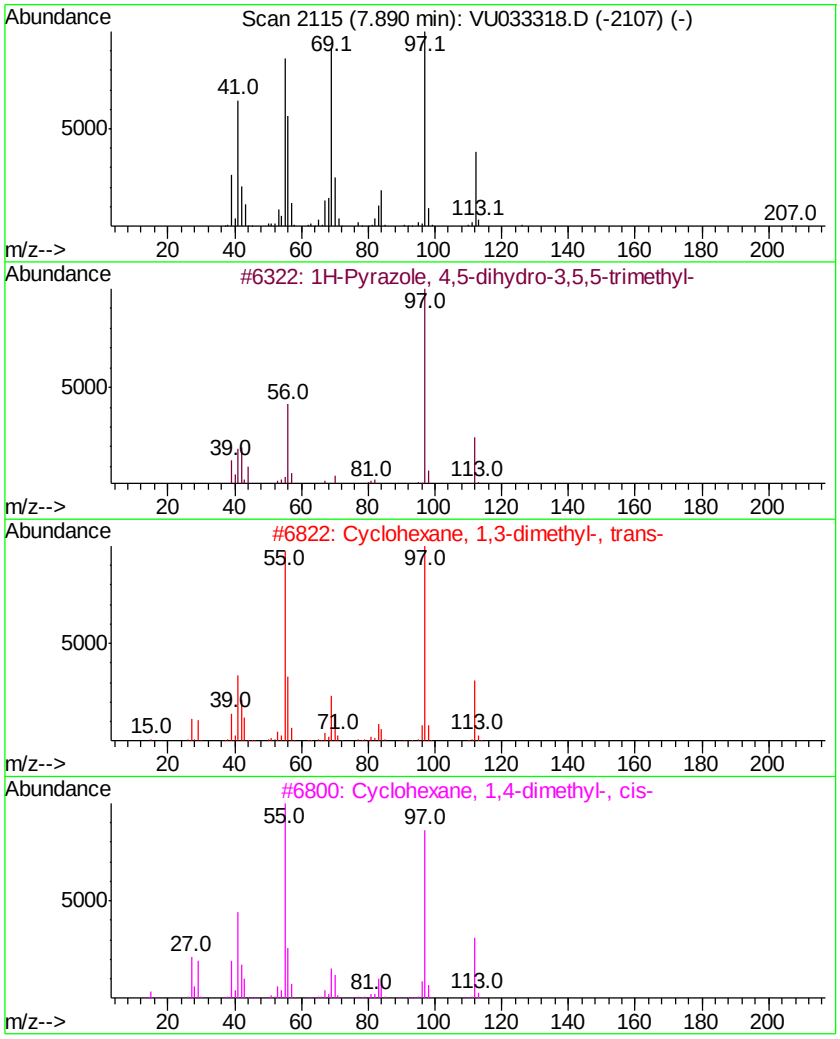
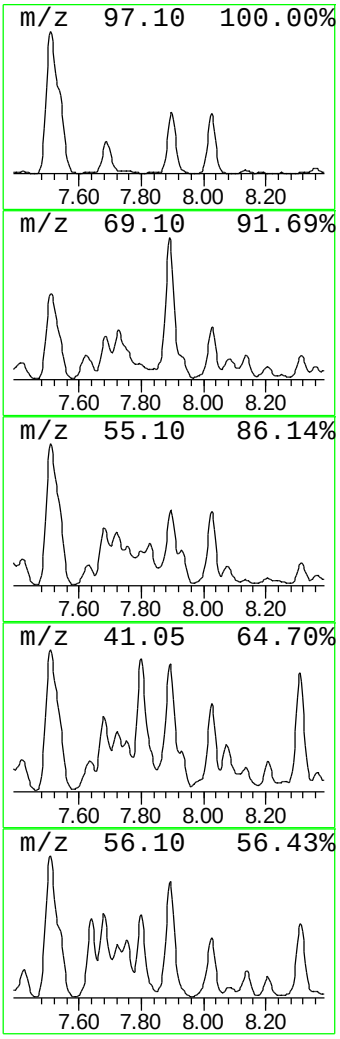
Peak Number 26 1H-Pyrazole, 4,5-dihydro-3,... Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.89 | 55.56 ug/L | 1211400 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Pyrazole, 4,5-dihydro-3,5,5-t... | 112 | C6H12N2 | 003975-85-7 | 55 |
| 2 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 52 |
| 3 | Cyclohexane, 1,4-dimethyl-, cis- | 112 | C8H16 | 000624-29-3 | 52 |
| 4 | Cyclohexane, 1,4-dimethyl-, trans- | 112 | C8H16 | 002207-04-7 | 52 |
| 5 | Cyclohexane, 1,4-dimethyl-, trans- | 112 | C8H16 | 002207-04-7 | 52 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

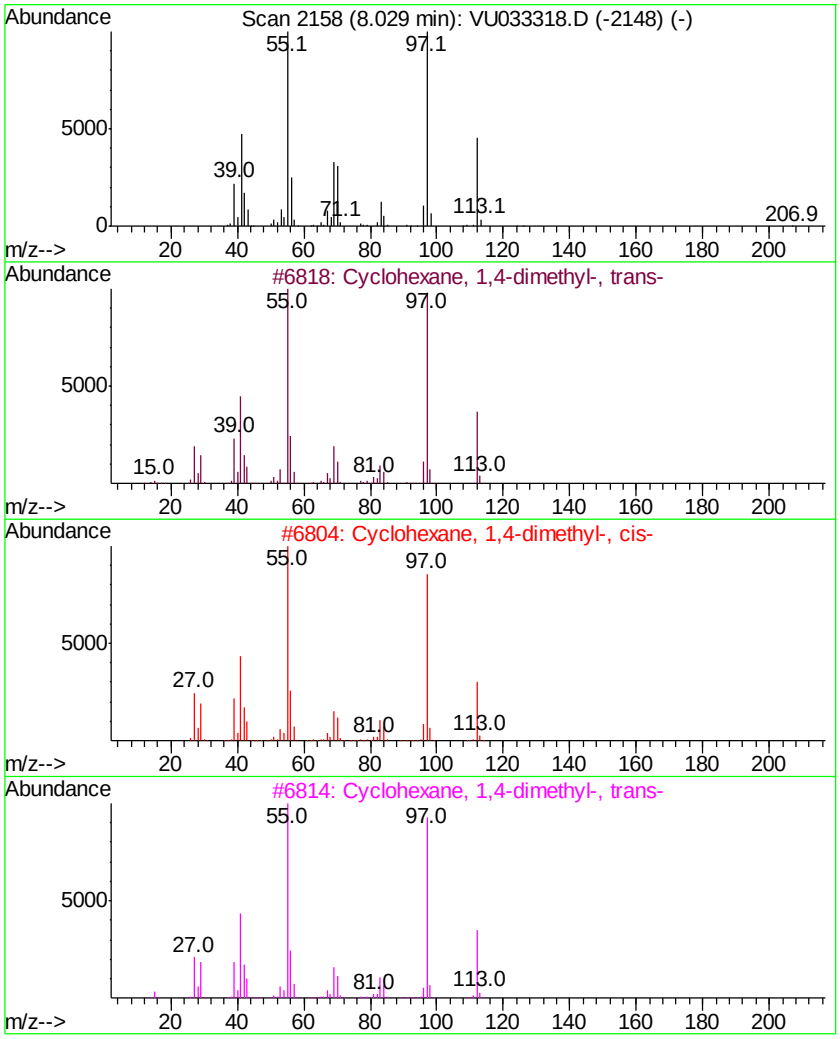
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

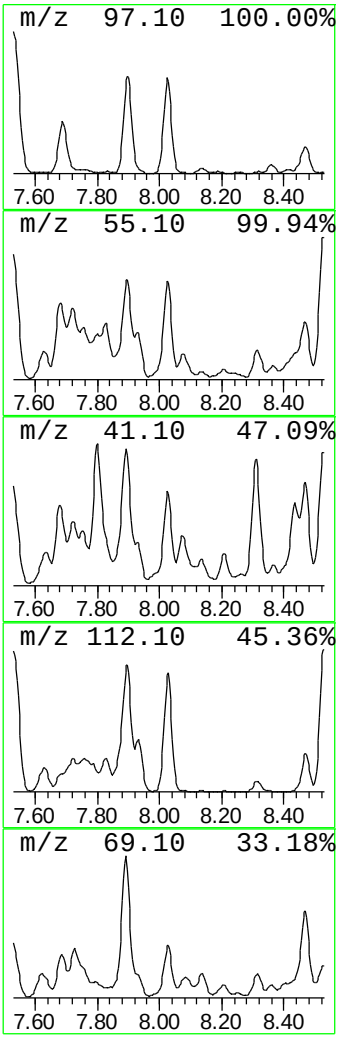
**********

Peak Number 27 (DEL) Alkane: Cyclic8.03 Concentration Rank 64

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.03 | 26.41 ug/L | 575918 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,4-dimethyl-, trans- | 112 | C8H16 | 002207-04-7 | 91 |
| 2 | Cyclohexane, 1,4-dimethyl-, cis- | 112 | C8H16 | 000624-29-3 | 90 |
| 3 | Cyclohexane, 1,4-dimethyl-, trans- | 112 | C8H16 | 002207-04-7 | 90 |
| 4 | Cyclohexane, 1,4-dimethyl- | 112 | C8H16 | 000589-90-2 | 90 |
| 5 | Cyclohexane, 1,4-dimethyl-, cis- | 112 | C8H16 | 000624-29-3 | 90 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

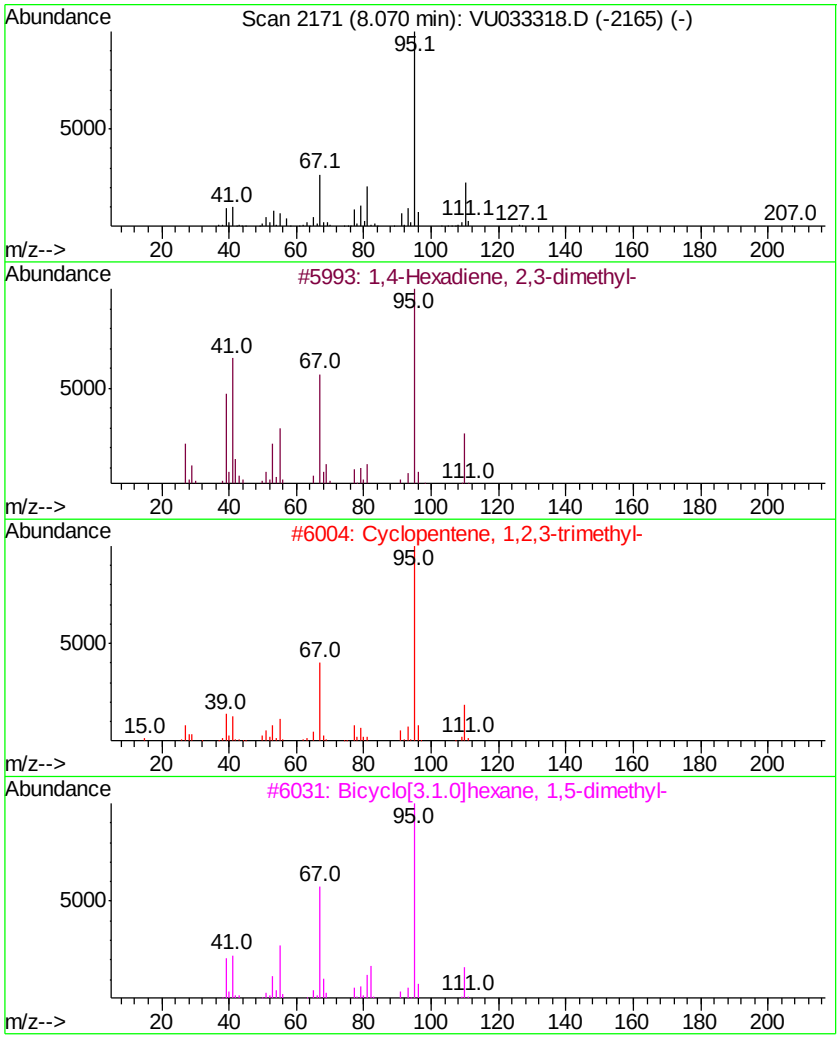
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

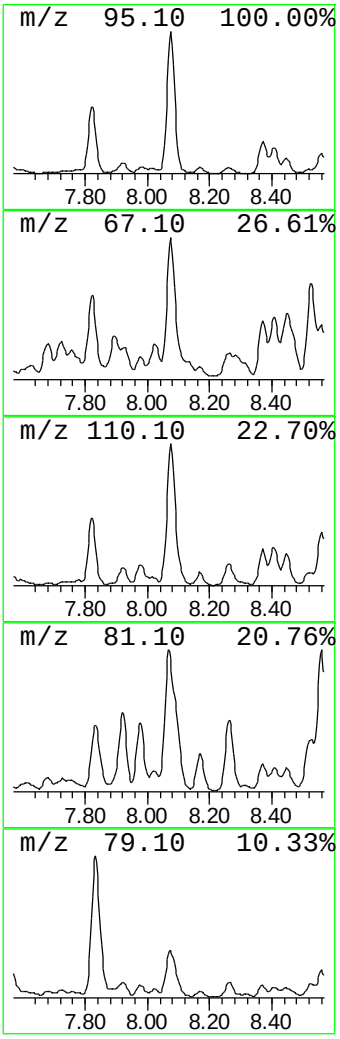
**********

Peak Number 28 1,4-Hexadiene, 2,3-dimethyl- Concentration Rank 57

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.07 | 30.22 ug/L | 658939 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Hexadiene, 2,3-dimethyl- | 110 | C8H14 | 018669-52-8 | 83 |
| 2 | Cyclopentene, 1,2,3-trimethyl- | 110 | C8H14 | 000473-91-6 | 81 |
| 3 | Bicyclo[3.1.0]hexane, 1,5-dimethyl- | 110 | C8H14 | 1000142-17-5 | 74 |
| 4 | Cyclohexene, 3,5-dimethyl- | 110 | C8H14 | 000823-17-6 | 72 |
| 5 | 1,4-Pentadiene, 2,3,3-trimethyl- | 110 | C8H14 | 000756-02-5 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

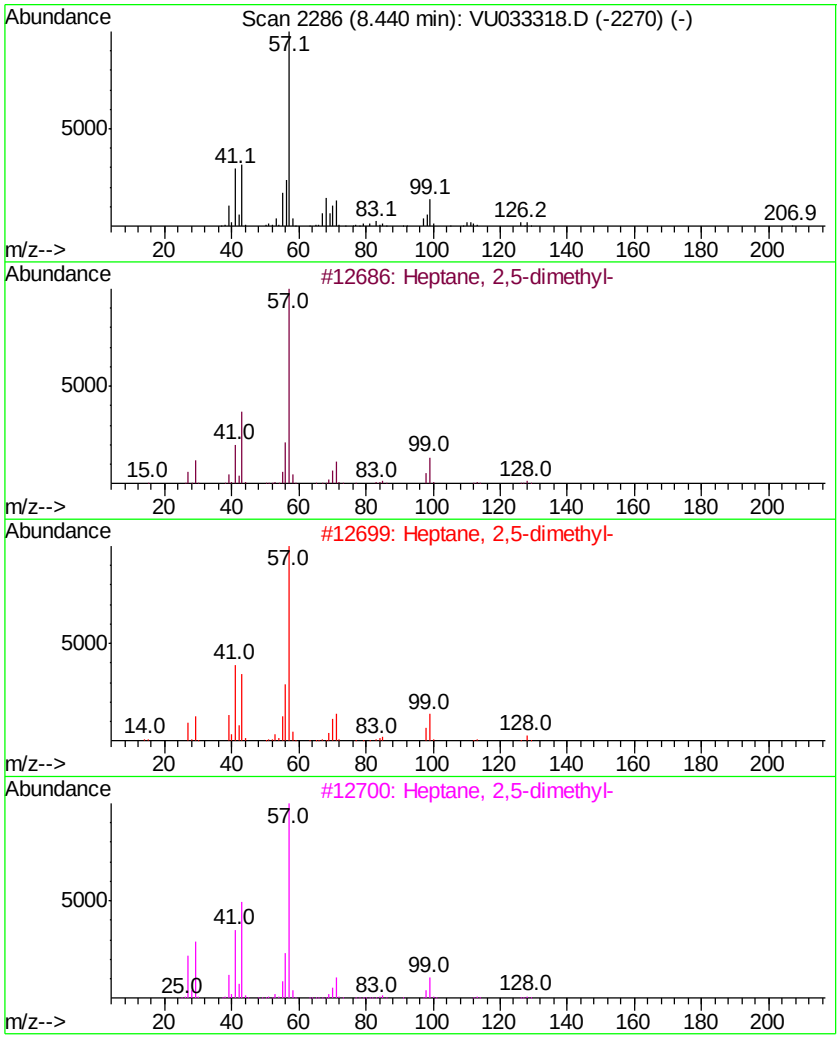
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

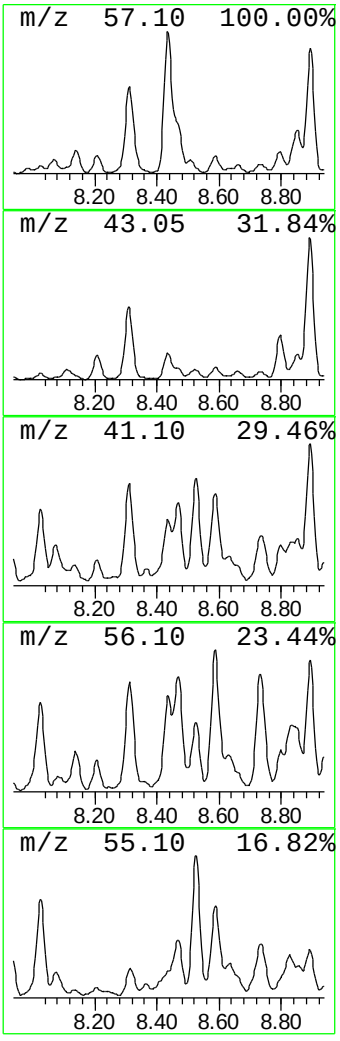
**********

Peak Number 29 (DEL) Alkane: Straight-Chai... Concentration Rank 68

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.44 | 23.97 ug/L | 522555 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 81 |
| 2 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 81 |
| 3 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 74 |
| 4 | Heptane, 3,5-dimethyl- | 128 | C9H20 | 000926-82-9 | 70 |
| 5 | Heptane, 3,5-dimethyl- | 128 | C9H20 | 000926-82-9 | 62 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

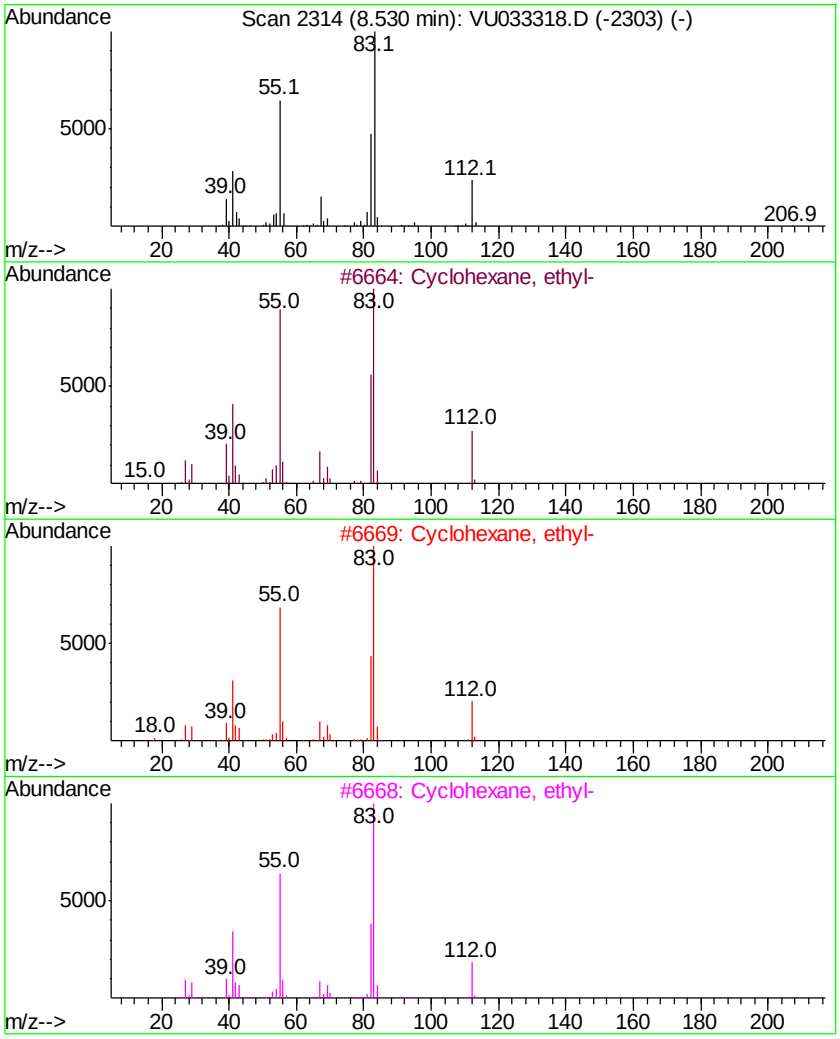
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

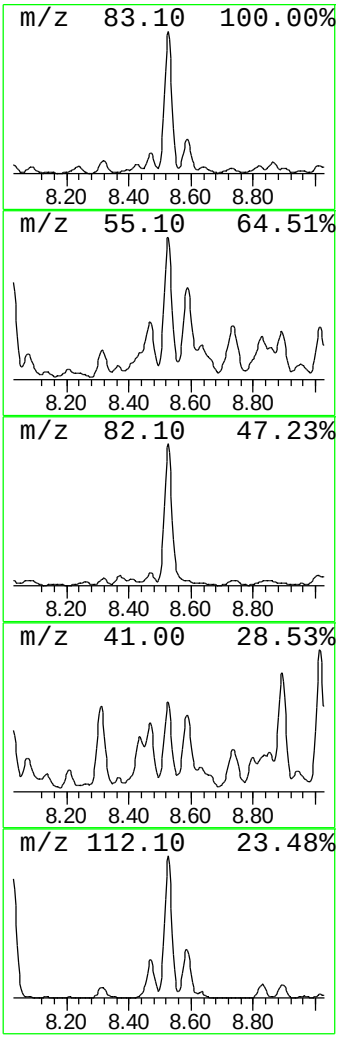
**********

Peak Number 30 (DEL) Alkane: Cyclic8.53 Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.53 | 39.87 ug/L | 869292 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 87 |
| 2 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 86 |
| 3 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 78 |
| 4 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 72 |
| 5 | 3,4-Dimethyl-2-hexene | 112 | C8H16 | 002213-37-8 | 53 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

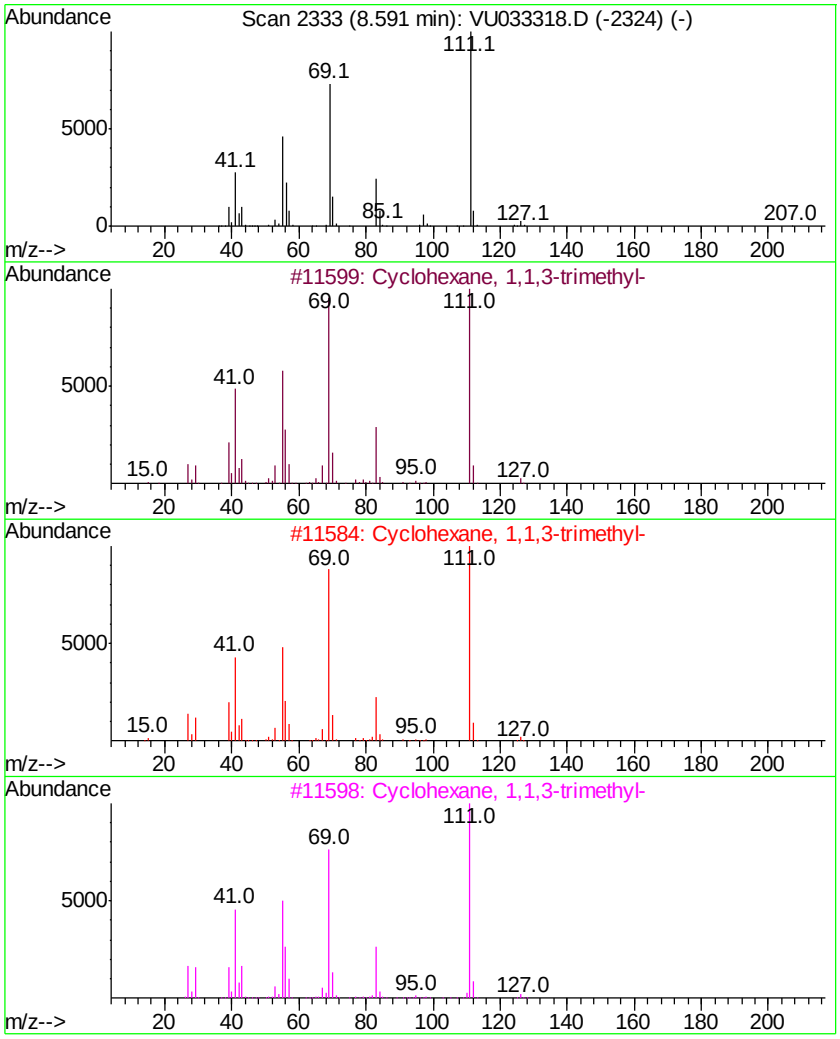
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

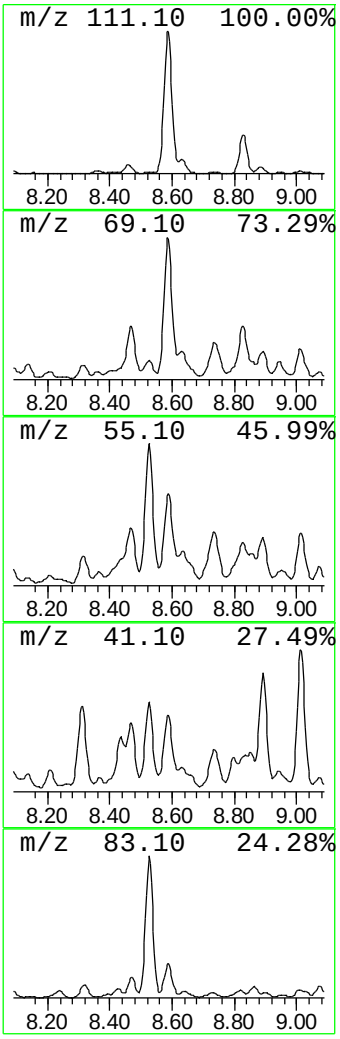
**********

Peak Number 31 (DEL) Alkane: Cyclic8.59 Concentration Rank 50

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.59 | 32.90 ug/L | 717279 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 91 |
| 2 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 91 |
| 3 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 91 |
| 4 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 91 |
| 5 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

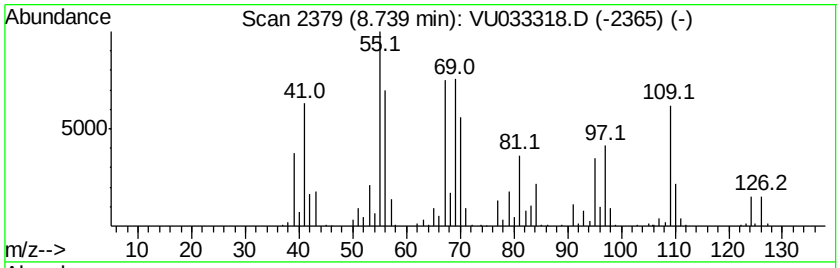
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

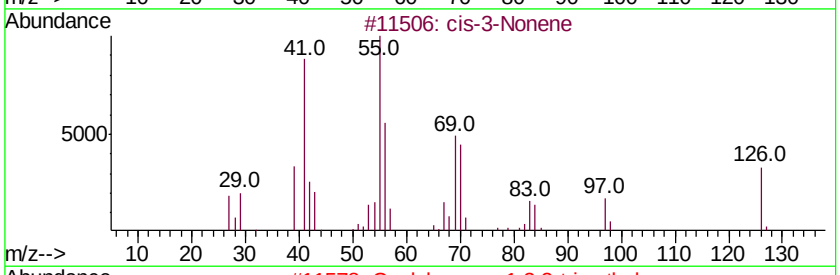
**********

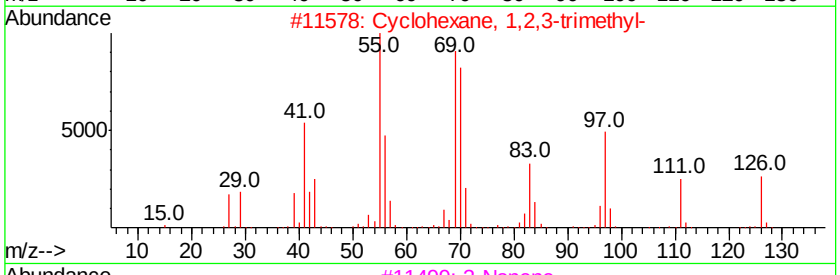
Peak Number 32 (DEL) Alkane: Cyclic8.74 Concentration Rank 54

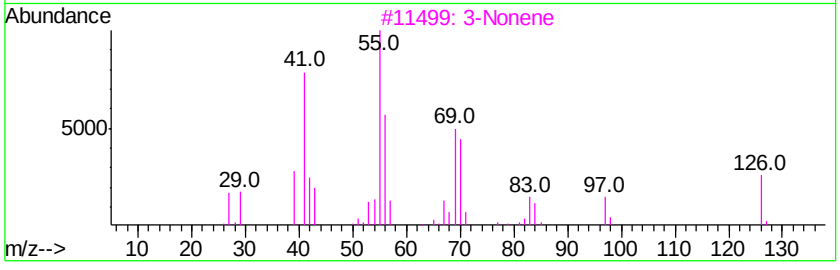
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.74 | 31.11 ug/L | 678362 | Chlorobenzene-d5 | 9.07 |

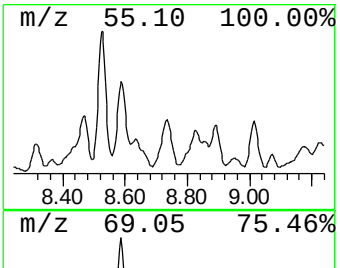
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | cis-3-Nonene | 126 | C9H18 | 020237-46-1 | 49 |
| 2 | Cyclohexane, 1,2,3-trimethyl- | 126 | C9H18 | 001678-97-3 | 45 |
| 3 | 3-Nonene | 126 | C9H18 | 020063-77-8 | 45 |
| 4 | 3-Nonene, (E)- | 126 | C9H18 | 020063-92-7 | 43 |
| 5 | cis-3-Nonene | 126 | C9H18 | 020237-46-1 | 43 |

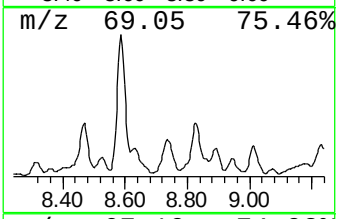


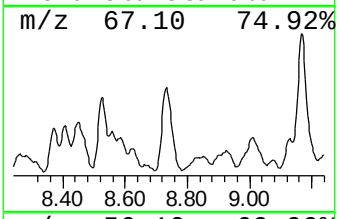



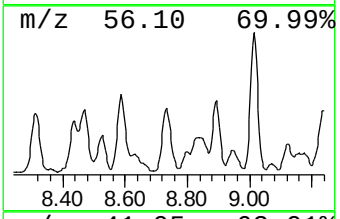



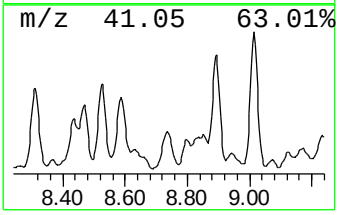



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

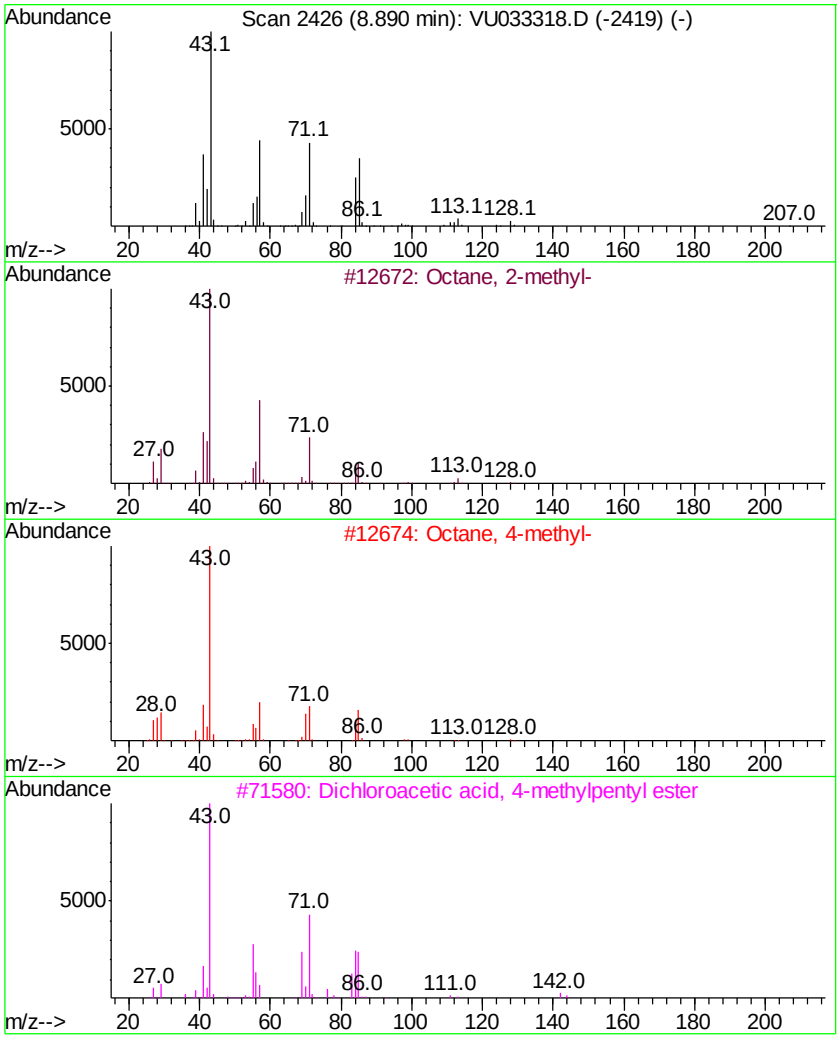
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

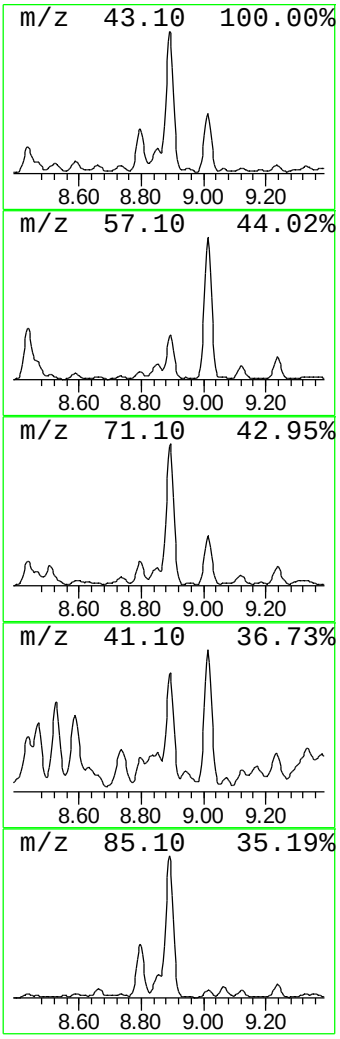
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 33 (DEL) Alkane: Straight-Chai... Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.89 | 47.42 ug/L | 1033980 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2-methyl- | 128 | C9H20 | 003221-61-2 | 72 |
| 2 | Octane, 4-methyl- | 128 | C9H20 | 002216-34-4 | 64 |
| 3 | Dichloroacetic acid, 4-methylpen... | 212 | C8H14Cl2O2 | 1000282-43-7 | 59 |
| 4 | Hexane, 2,3,4-trimethyl- | 128 | C9H20 | 000921-47-1 | 59 |
| 5 | Hexane, 2,3,5-trimethyl- | 128 | C9H20 | 001069-53-0 | 53 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

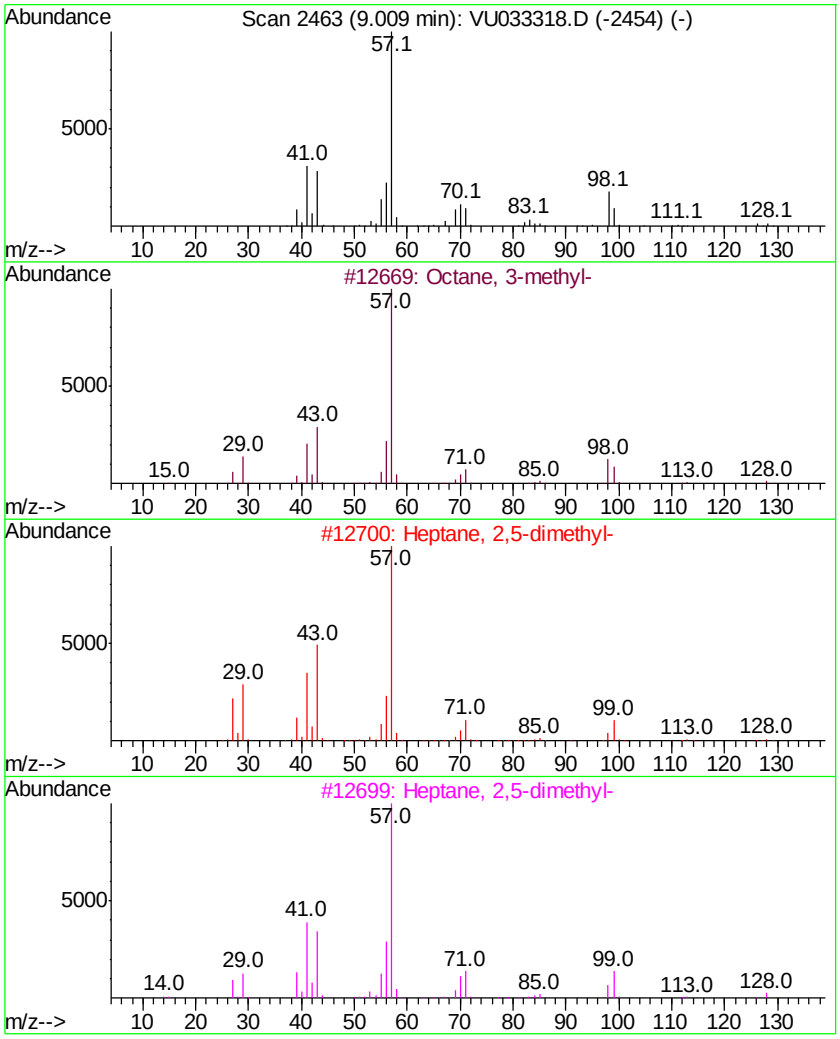
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

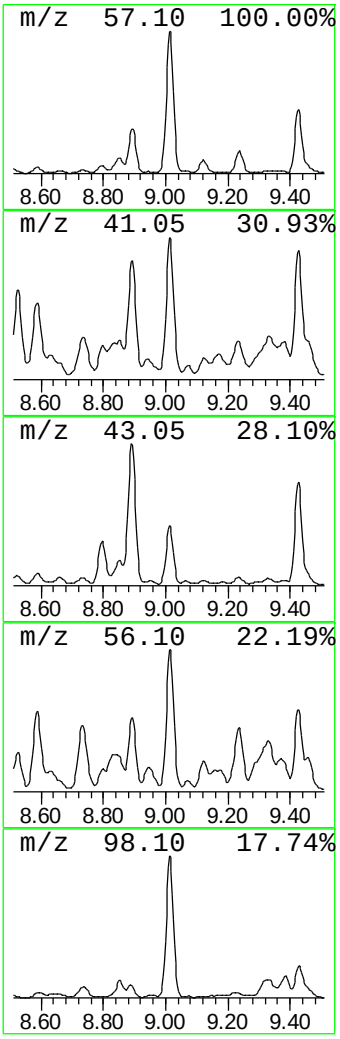
**********

Peak Number 34 (DEL) Alkane: Straight-Chai... Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.01 | 51.71 ug/L | 1127390 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 3-methyl- | 128 | C9H20 | 002216-33-3 | 80 |
| 2 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 72 |
| 3 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 72 |
| 4 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 72 |
| 5 | Octane, 3-methyl- | 128 | C9H20 | 002216-33-3 | 64 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

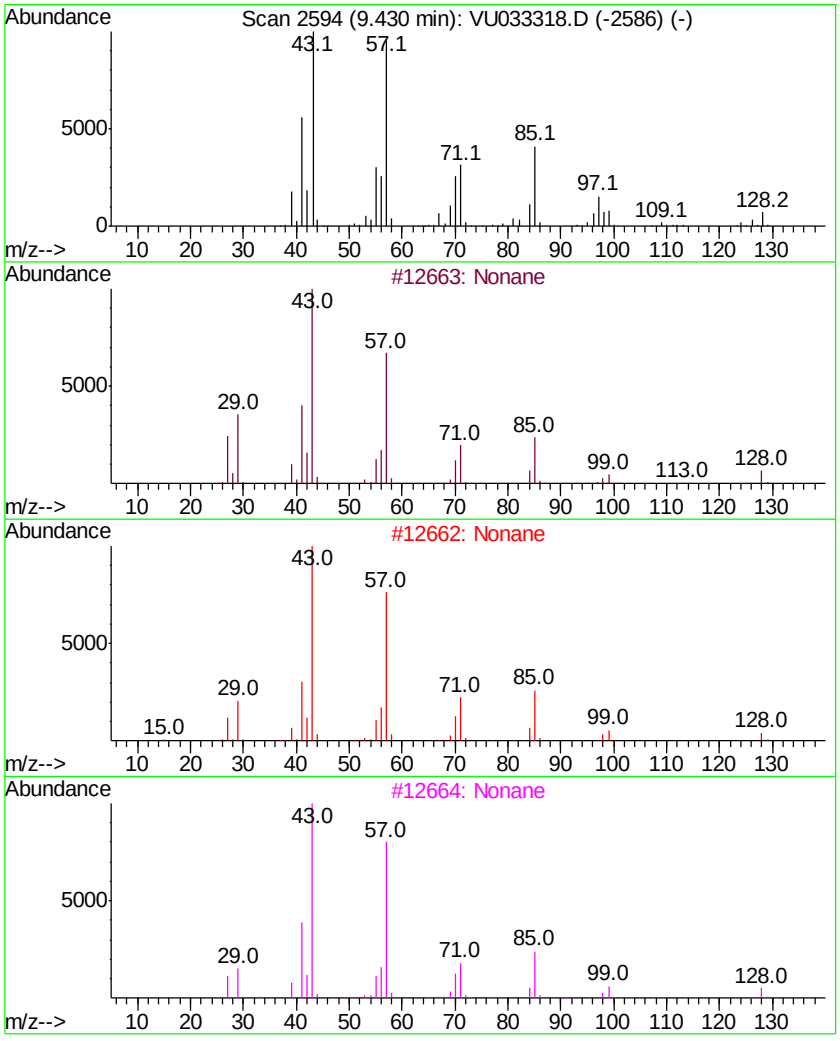
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

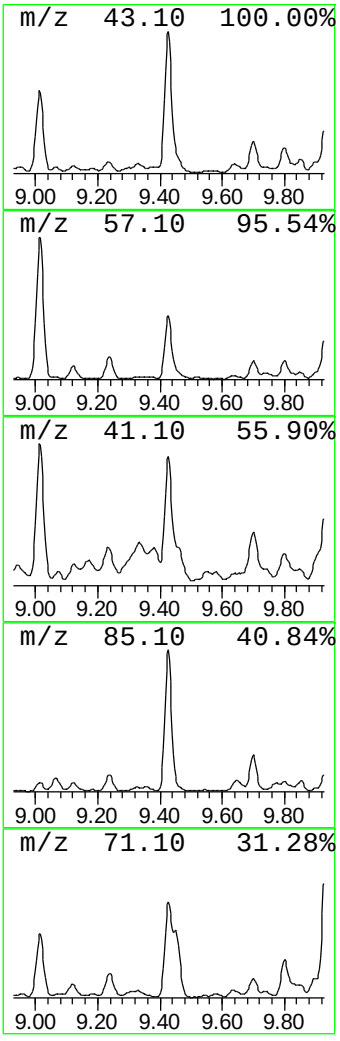
**********

Peak Number 35 (DEL) Alkane: Straight-Chai... Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.43 | 69.40 ug/L | 1513080 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane | 128 | C9H20 | 000111-84-2 | 93 |
| 2 | Nonane | 128 | C9H20 | 000111-84-2 | 87 |
| 3 | Nonane | 128 | C9H20 | 000111-84-2 | 87 |
| 4 | Octane | 114 | C8H18 | 000111-65-9 | 53 |
| 5 | Hexane, 1-(hexyloxy)-4-methyl- | 200 | C13H28O | 074421-20-8 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

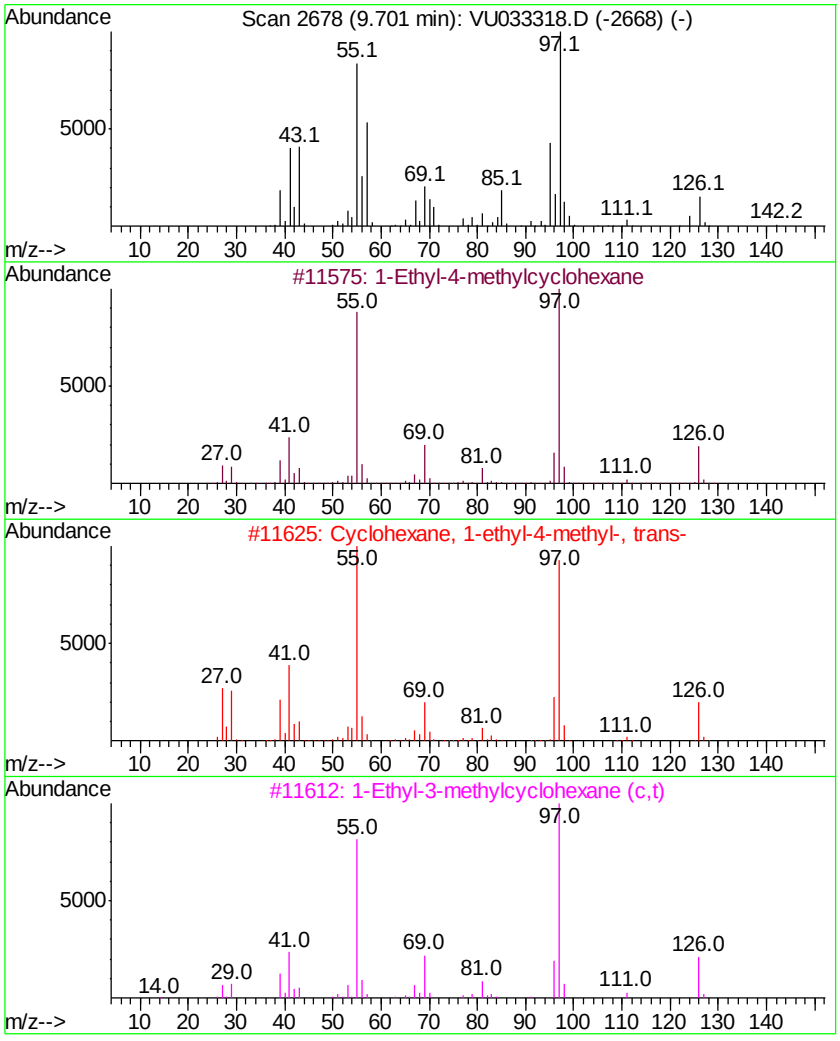
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

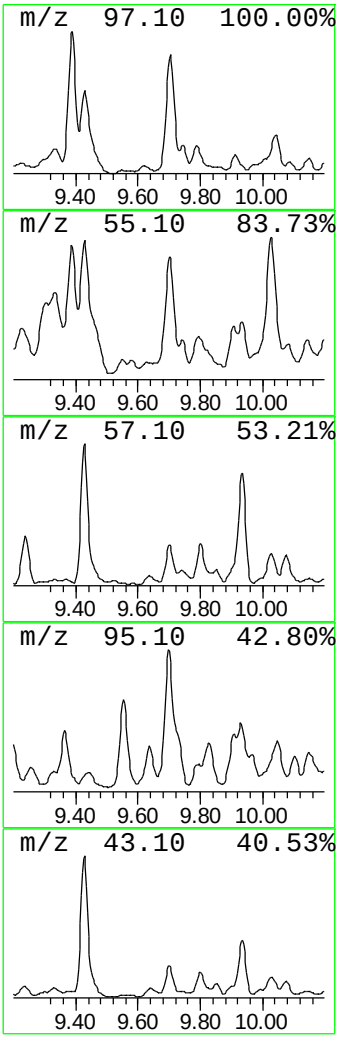
**********

Peak Number 36 (DEL) Alkane: Cyclic9.70 Concentration Rank 61

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.70 | 28.10 ug/L | 612680 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Ethyl-4-methylcyclohexane | 126 | C9H18 | 003728-56-1 | 64 |
| 2 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 006236-88-0 | 64 |
| 3 | 1-Ethyl-3-methylcyclohexane (c,t) | 126 | C9H18 | 003728-55-0 | 60 |
| 4 | cis-1-Ethyl-3-methyl-cyclohexane | 126 | C9H18 | 019489-10-2 | 60 |
| 5 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-78-8 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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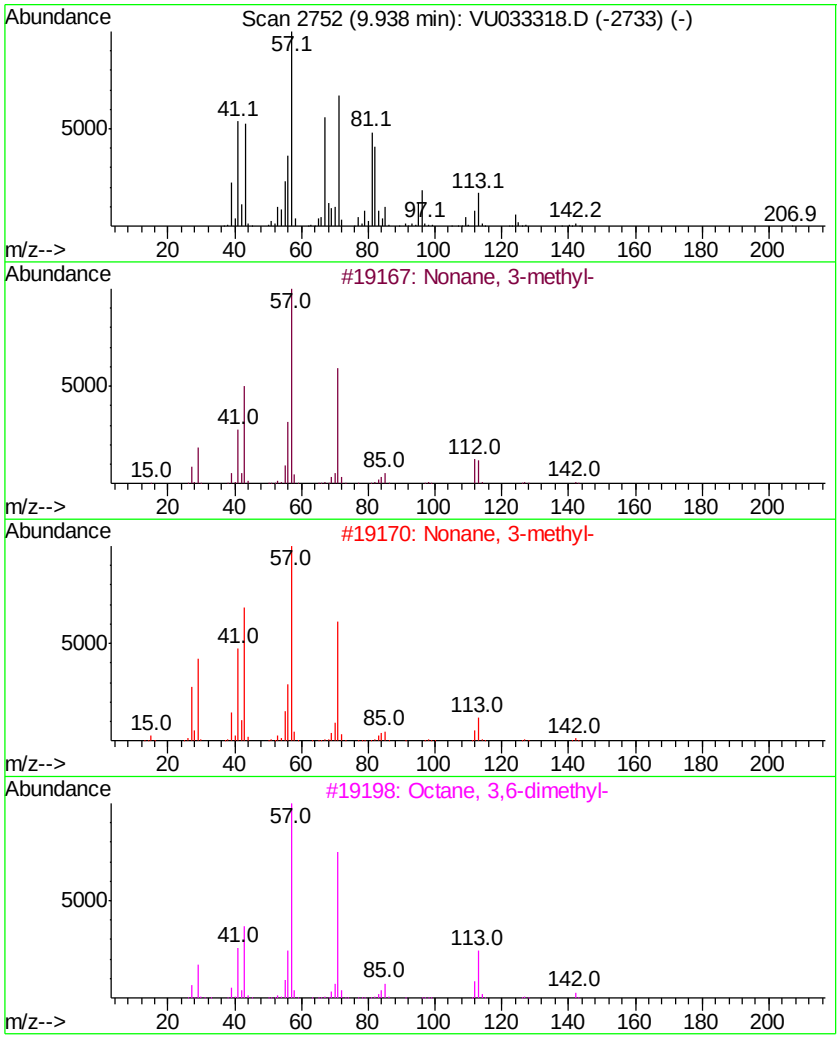
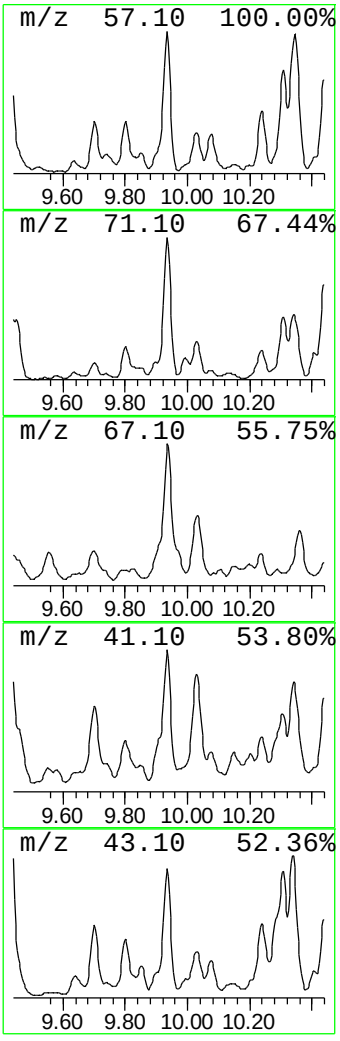
Peak Number 37 (DEL) Alkane: Straight-Chai... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.94 | 56.66 ug/L | 1235290 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 55 |
| 2 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 50 |
| 3 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 49 |
| 4 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 49 |
| 5 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 49 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

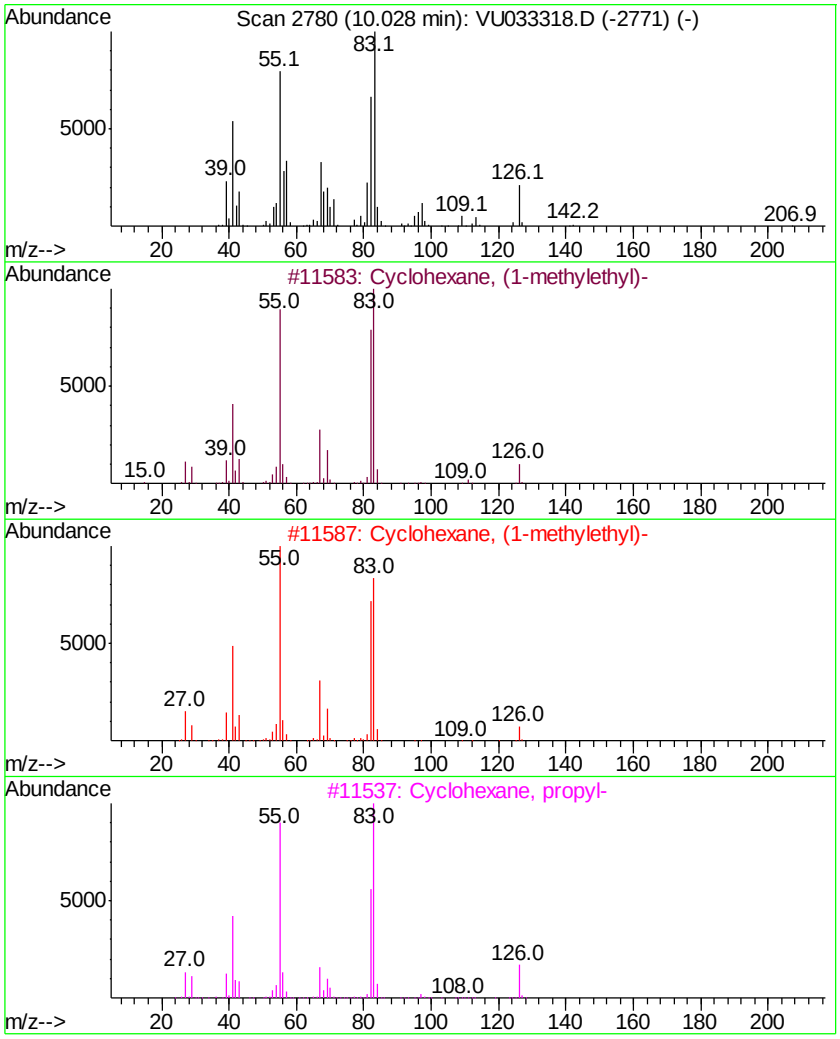
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

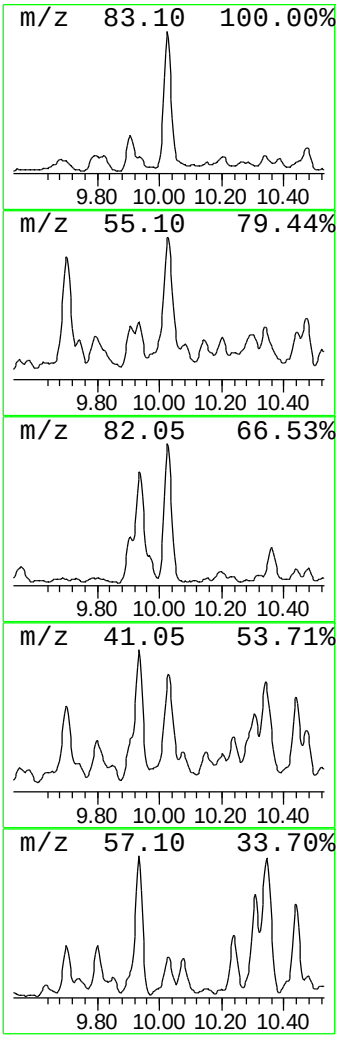
**********

Peak Number 38 (DEL) Alkane: Cyclic10.03 Concentration Rank 59

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.03 | 29.97 ug/L | 653409 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 87 |
| 2 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 83 |
| 3 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 72 |
| 4 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 72 |
| 5 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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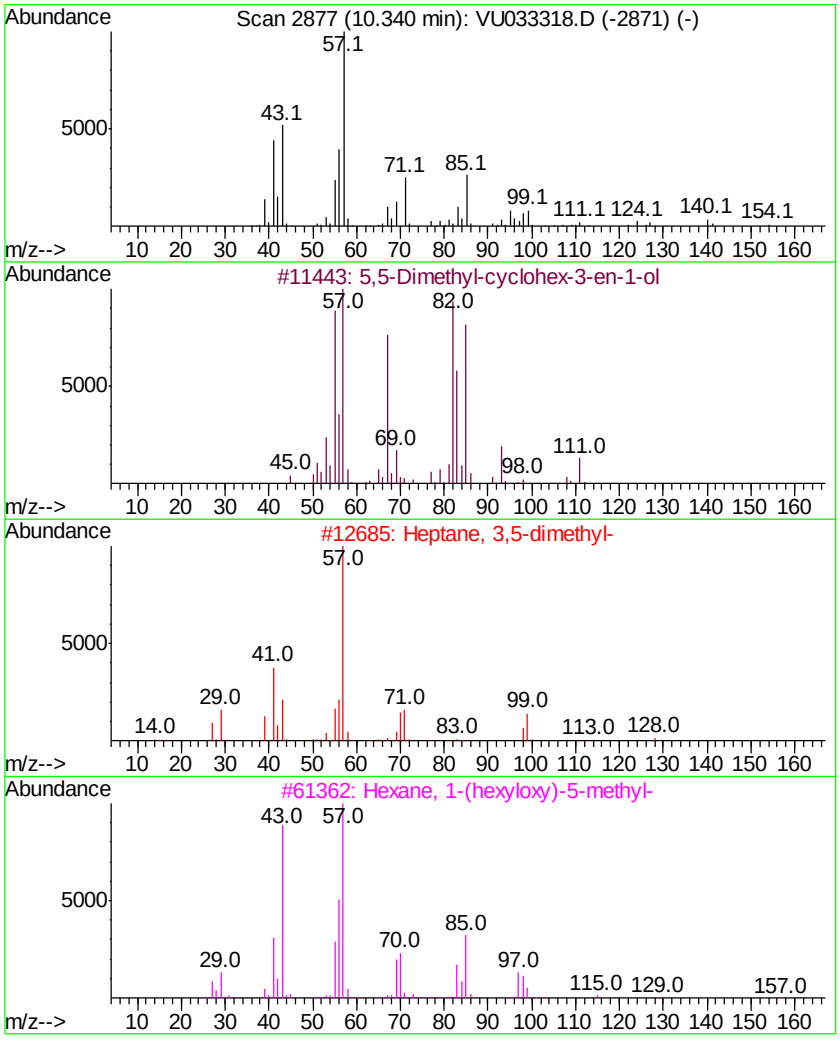
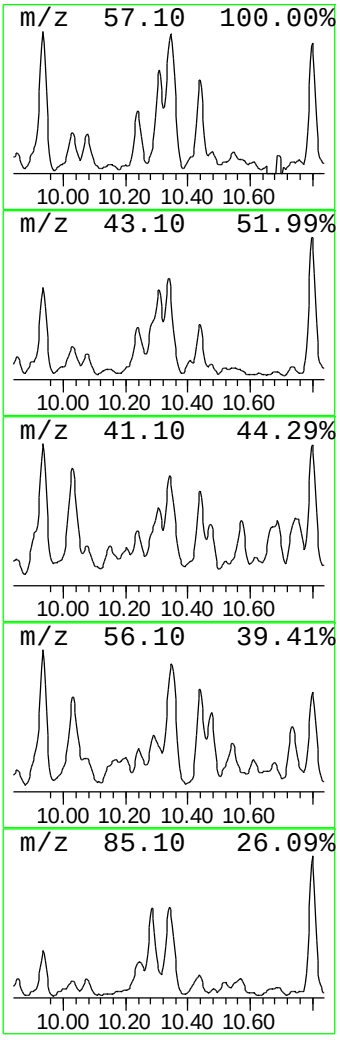
Peak Number 39 5,5-Dimethyl-cyclohex-3-en-... Concentration Rank 67

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.34 | 24.22 ug/L | 725649 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 5,5-Dimethyl-cyclohex-3-en-1-ol | 126 | C8H14O | 082299-68-1 | 50 |
| 2 | Heptane, 3,5-dimethyl- | 128 | C9H20 | 000926-82-9 | 43 |
| 3 | Hexane, 1-(hexyloxy)-5-methyl- | 200 | C13H28O | 074421-19-5 | 40 |
| 4 | Decane, 2,5,6-trimethyl- | 184 | C13H28 | 062108-23-0 | 40 |
| 5 | Sulfurous acid, butyl decyl ester | 278 | C14H30O3S | 1000309-17-7 | 37 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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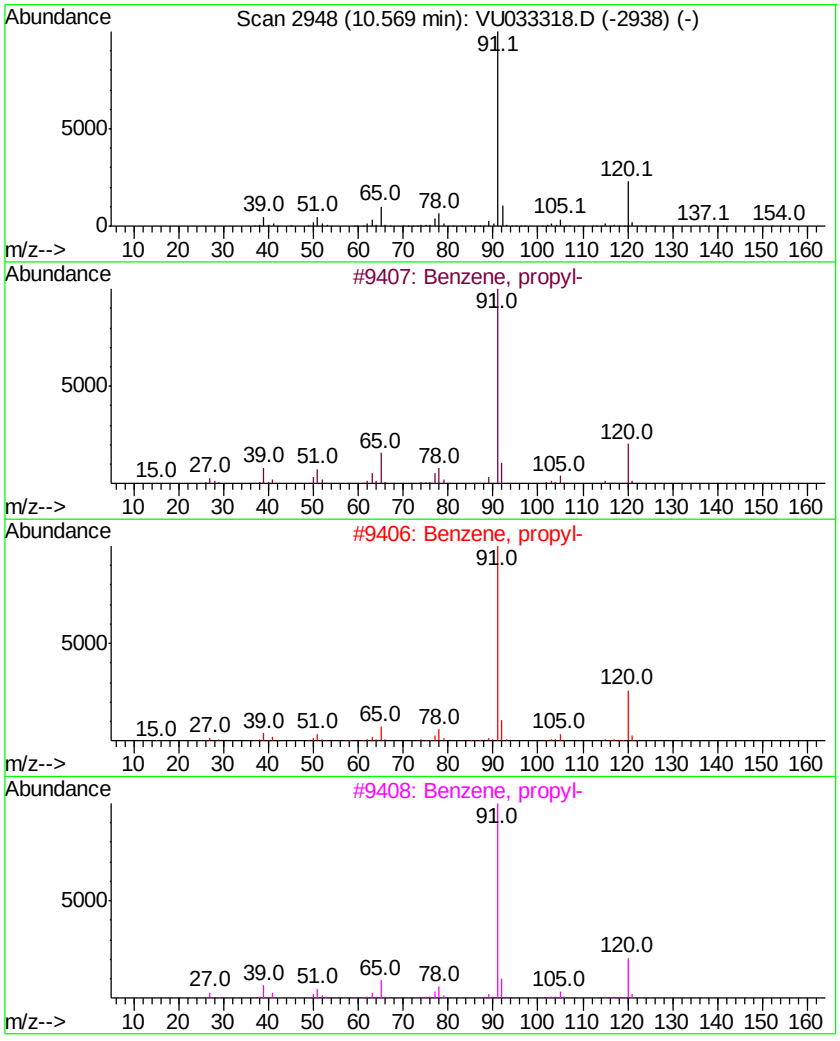
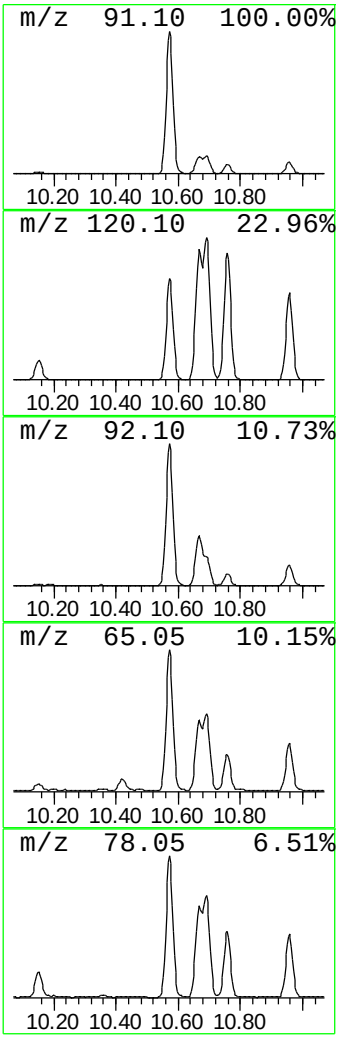
Peak Number 40 Benzene, propyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.57 | 89.35 ug/L | 2676620 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 91 |
| 2 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 90 |
| 3 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 90 |
| 4 | 1,2-Ethanediamine, N,N'-bis(phen... | 240 | C16H20N2 | 000140-28-3 | 64 |
| 5 | Ethanol, 2-[(phenylmethyl)amino]- | 151 | C9H13NO | 000104-63-2 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

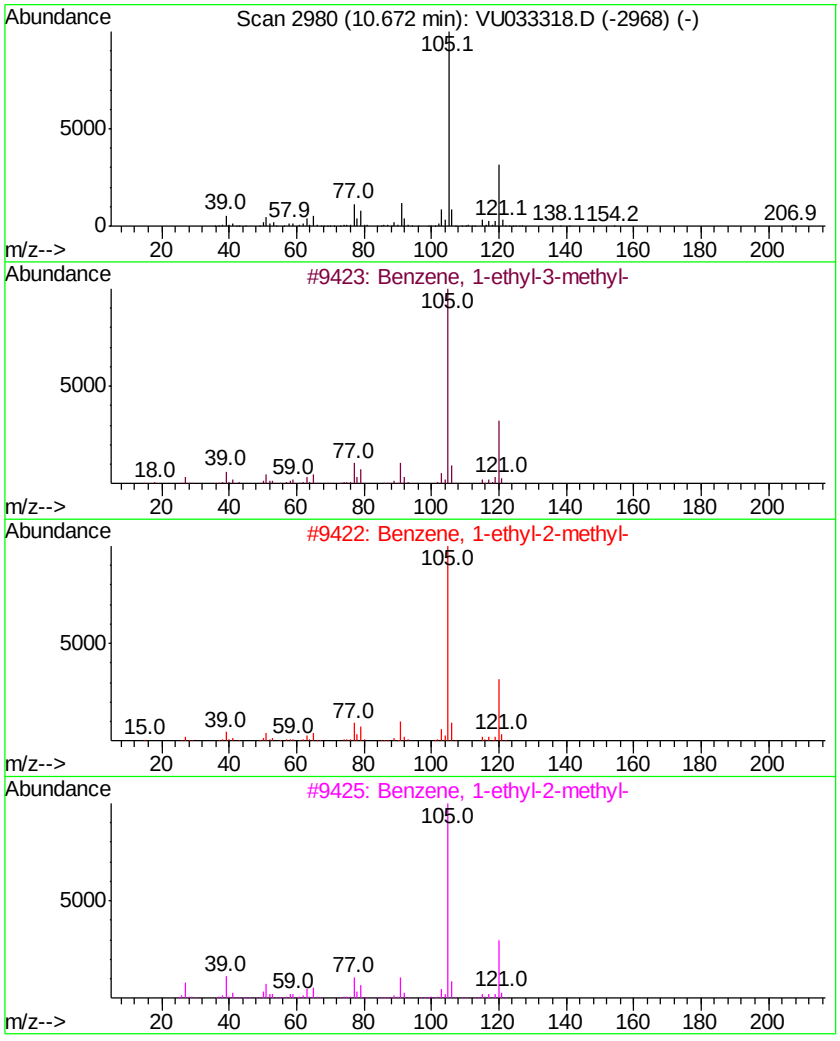
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

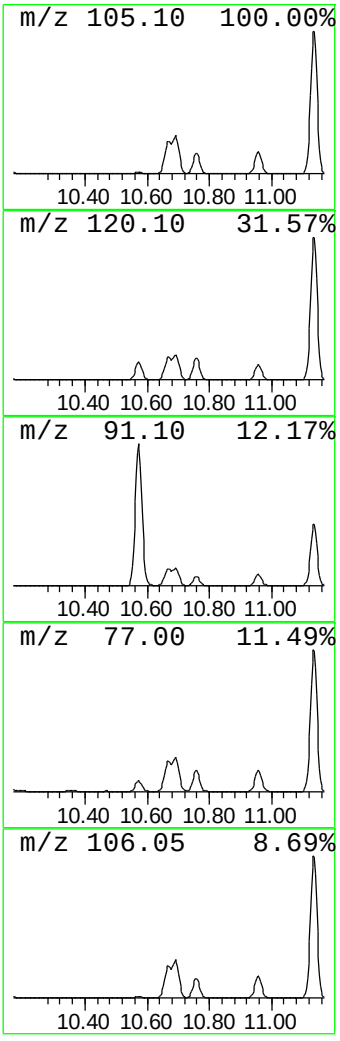
**********

Peak Number 41 Benzene, 1-ethyl-3-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.67 | 104.33 ug/L | 3125220 | 1,4-Dichlorobenzene-d4 | 11.47 |

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

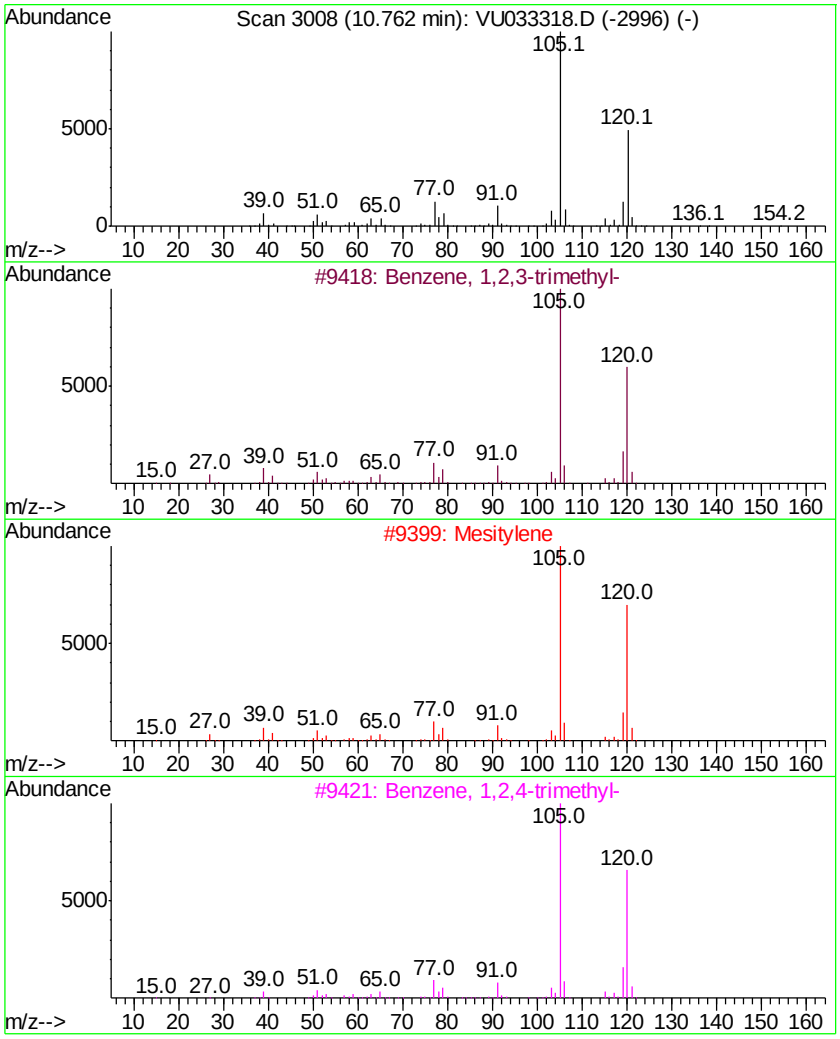
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

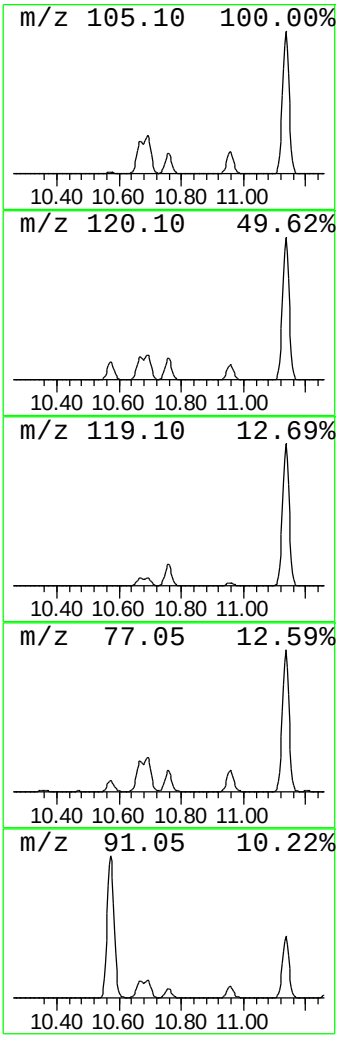
**********

Peak Number 42 Benzene, 1,2,3-trimethyl- Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.76 | 75.65 ug/L | 2265950 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 97 |
| 2 | Mesitylene | 120 | C9H12 | 000108-67-8 | 94 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |
| 4 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |
| 5 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

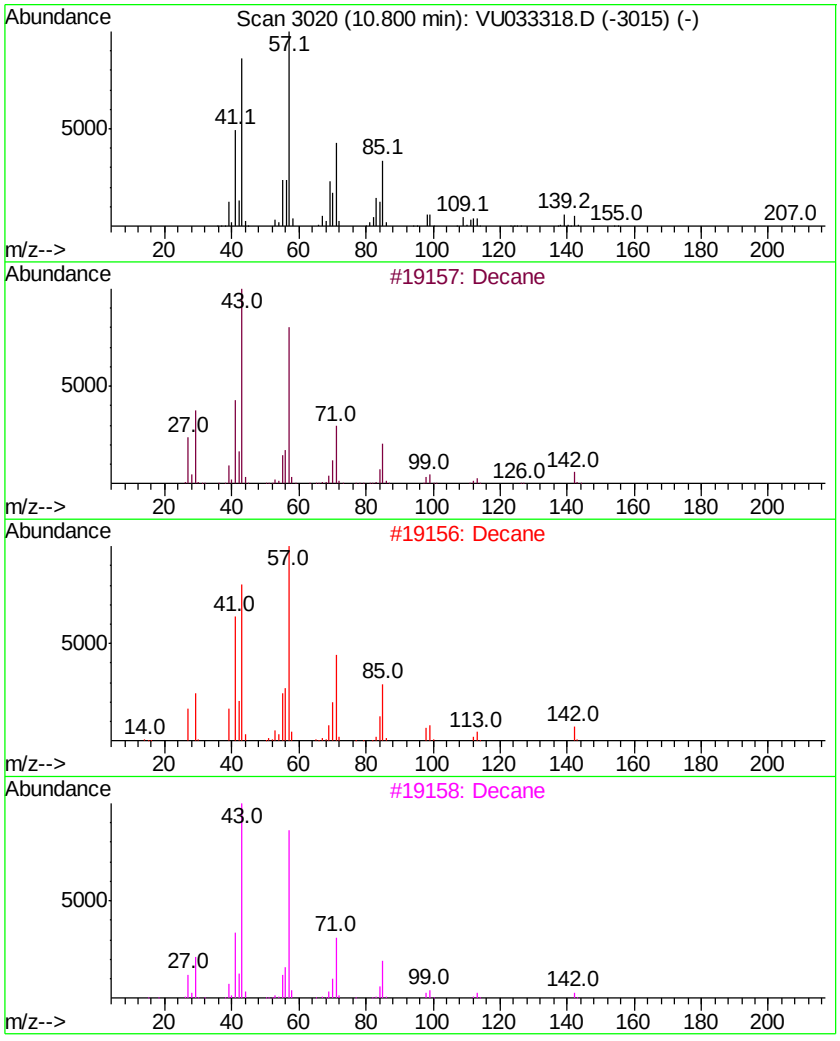
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

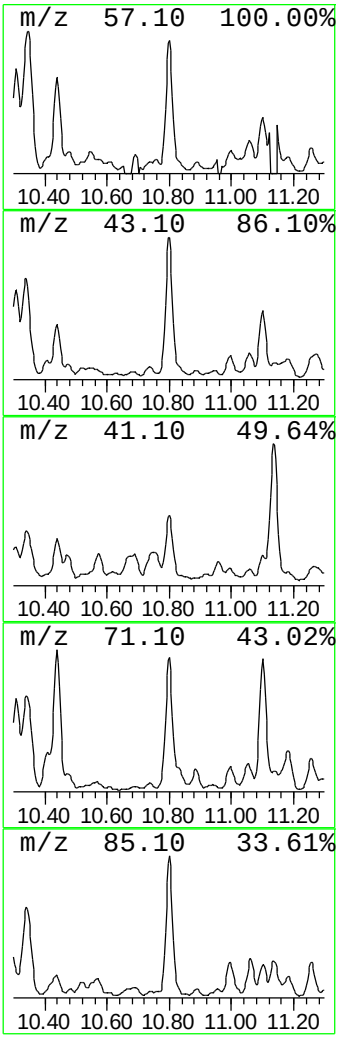
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 43 (DEL) Alkane: Straight-Chai... Concentration Rank 66

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.80 | 24.93 ug/L | 746762 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane | 142 | C10H22 | 000124-18-5 | 93 |
| 2 | Decane | 142 | C10H22 | 000124-18-5 | 90 |
| 3 | Decane | 142 | C10H22 | 000124-18-5 | 81 |
| 4 | Octane | 114 | C8H18 | 000111-65-9 | 64 |
| 5 | Decane, 3,8-dimethyl- | 170 | C12H26 | 017312-55-9 | 59 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

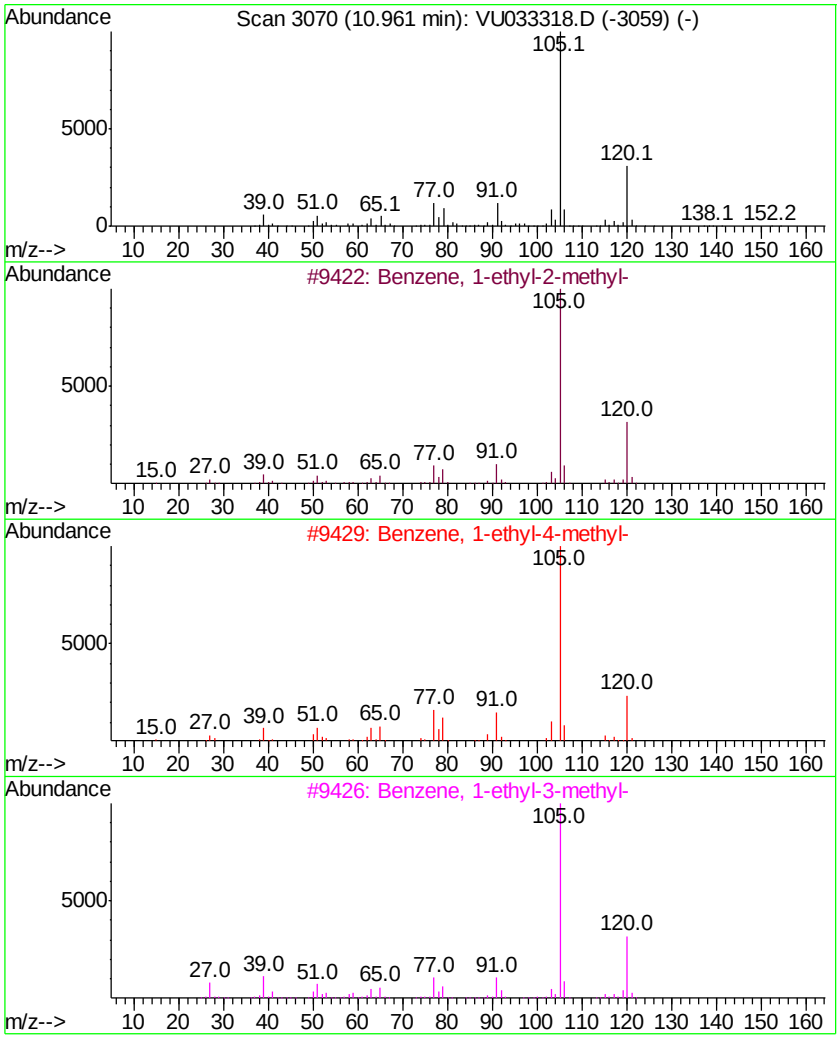
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

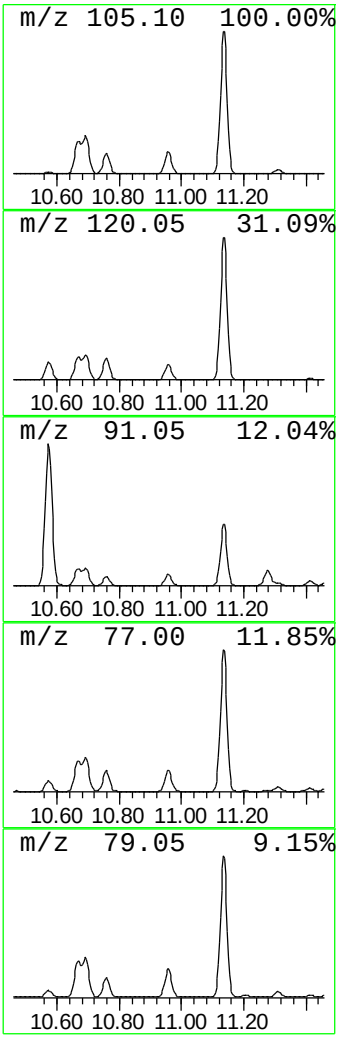
**********

Peak Number 44 Benzene, 1-ethyl-2-methyl- Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.96 | 82.26 ug/L | 2464120 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 2 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 94 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 5 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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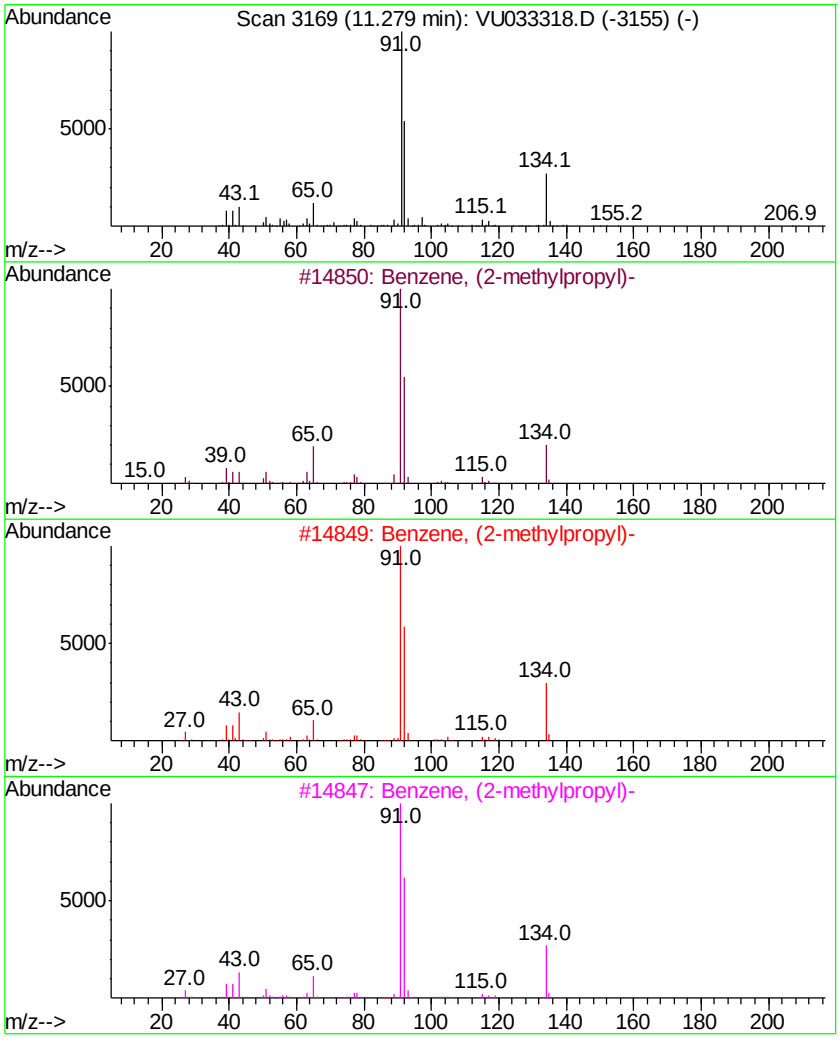
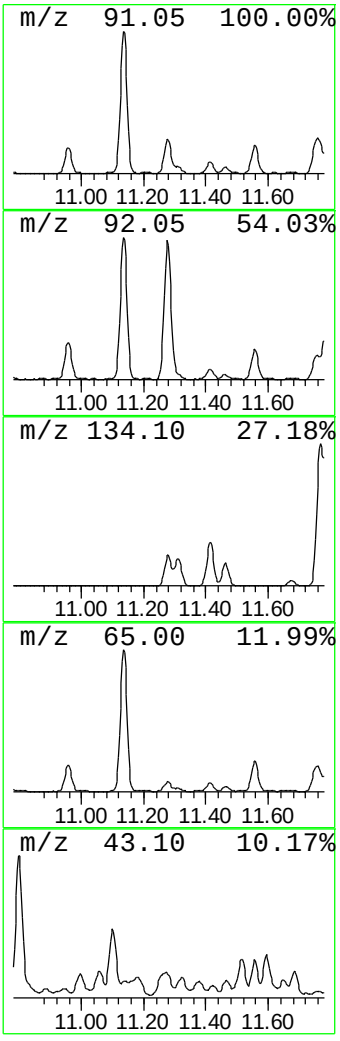
Peak Number 46 Benzene, (2-methylpropyl)- Concentration Rank 75

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.28 | 18.37 ug/L | 550334 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (2-methylpropyl)- | 134 | C10H14 | 000538-93-2 | 90 |
| 2 | Benzene, (2-methylpropyl)- | 134 | C10H14 | 000538-93-2 | 87 |
| 3 | Benzene, (2-methylpropyl)- | 134 | C10H14 | 000538-93-2 | 87 |
| 4 | Benzene, butyl- | 134 | C10H14 | 000104-51-8 | 80 |
| 5 | Benzene, butyl- | 134 | C10H14 | 000104-51-8 | 80 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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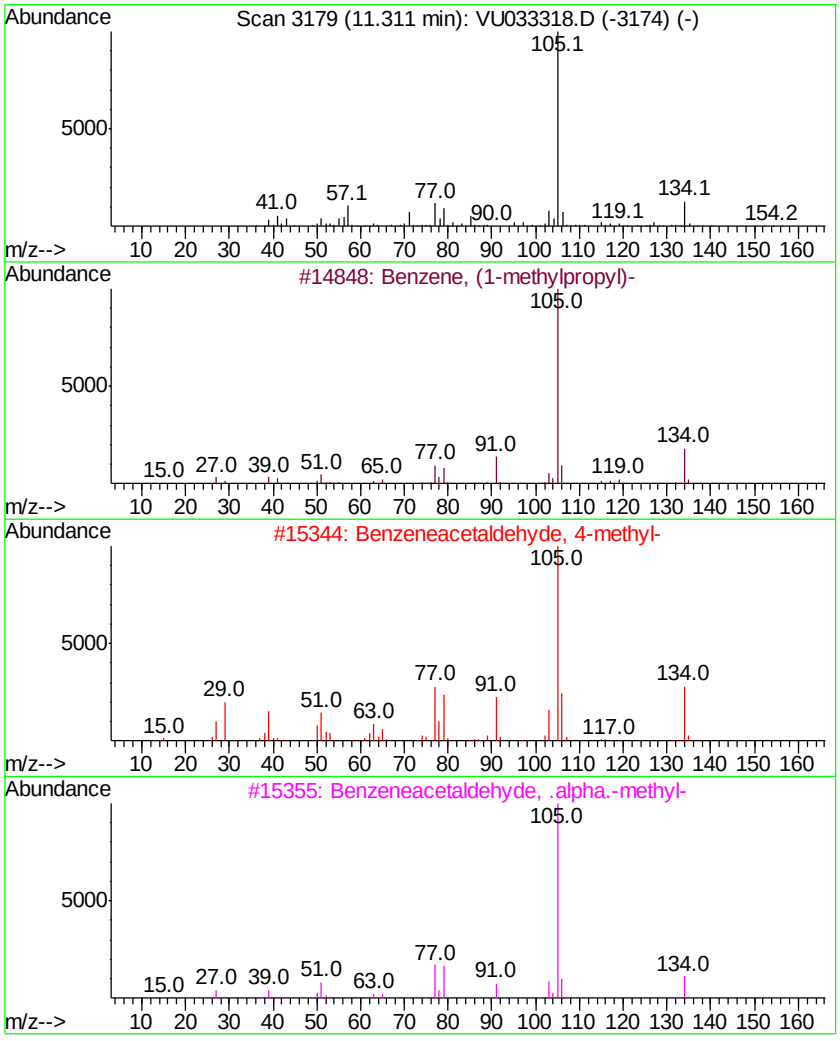
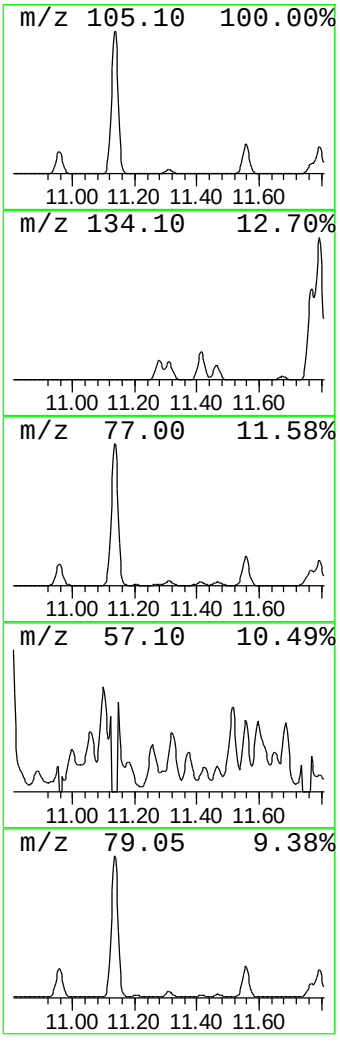
Peak Number 47 Benzene, (1-methylpropyl)- Concentration Rank 77

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.31 | 17.17 ug/L | 514213 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methylpropyl)- | 134 | C10H14 | 000135-98-8 | 72 |
| 2 | Benzeneacetaldehyde, 4-methyl- | 134 | C9H10O | 000104-09-6 | 64 |
| 3 | Benzeneacetaldehyde, .alpha.-met... | 134 | C9H10O | 000093-53-8 | 59 |
| 4 | Oxirane, 2-methyl-2-phenyl- | 134 | C9H10O | 002085-88-3 | 58 |
| 5 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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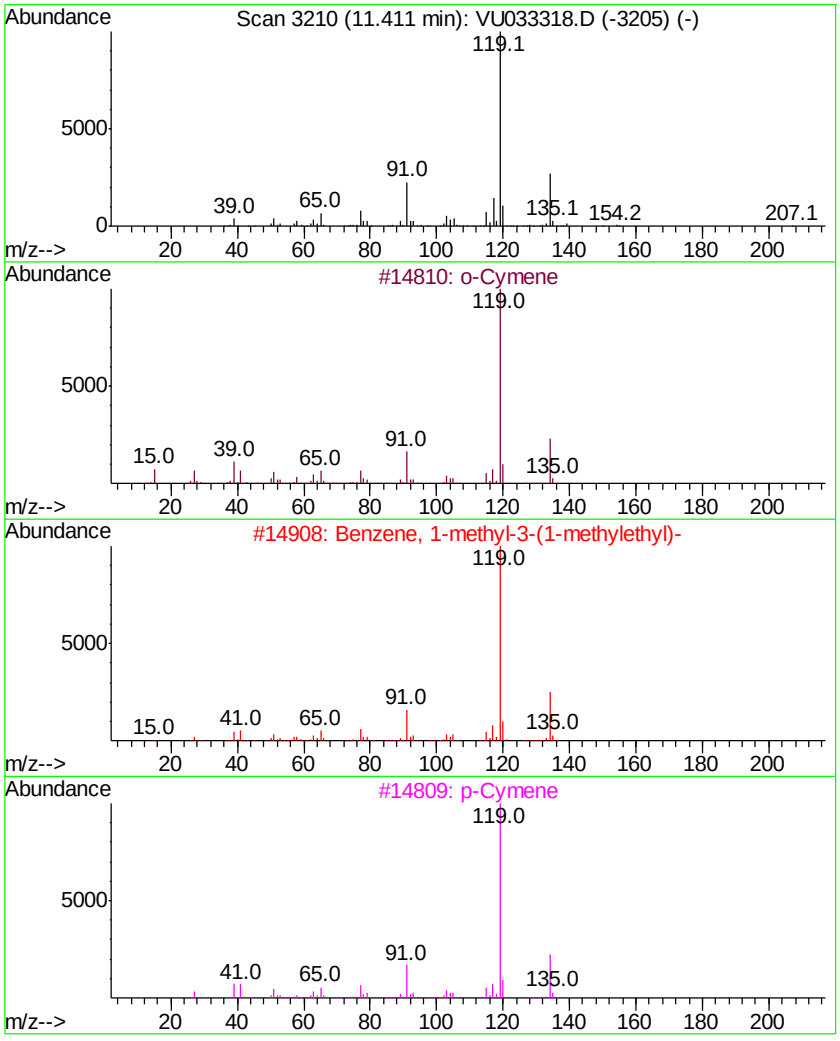
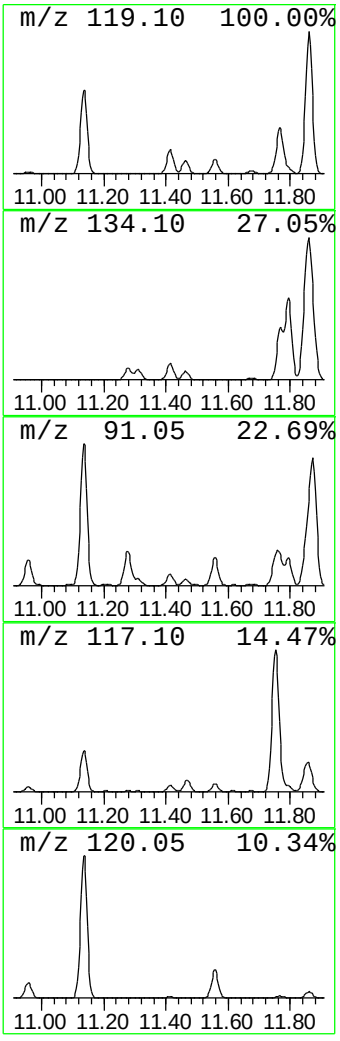
Peak Number 48 o-Cymene Concentration Rank 78

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.41 | 17.10 ug/L | 512143 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | o-Cymene | 134 | C10H14 | 000527-84-4 | 97 |
| 2 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 97 |
| 3 | p-Cymene | 134 | C10H14 | 000099-87-6 | 97 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 97 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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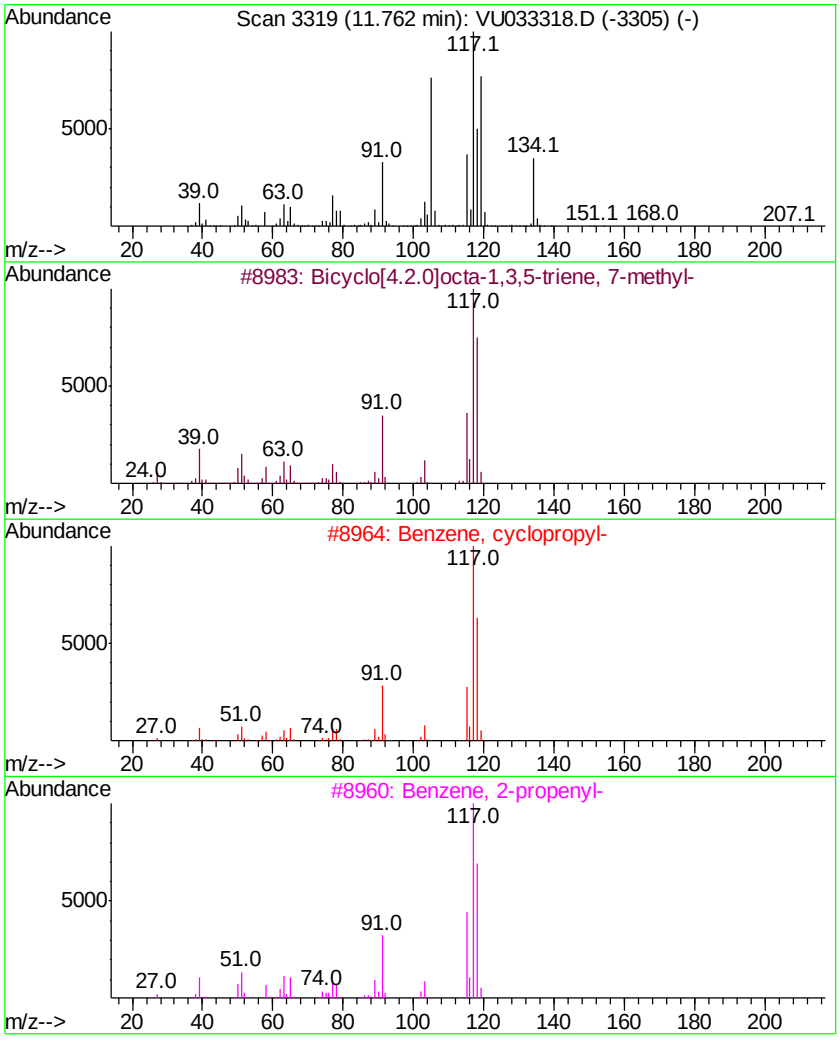
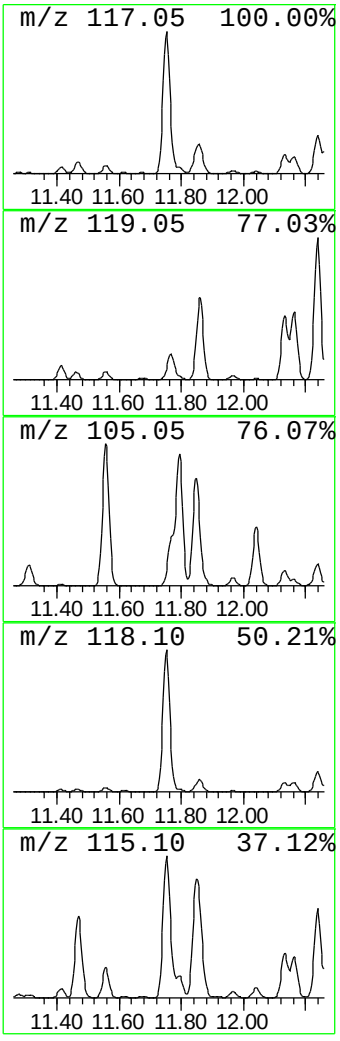
Peak Number 50 Bicyclo[4.2.0]octa-1,3,5-tr... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.76 | 118.69 ug/L | 3555250 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 118 | C9H10 | 055337-80-9 | 78 |
| 2 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 60 |
| 3 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 60 |
| 4 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 60 |
| 5 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 60 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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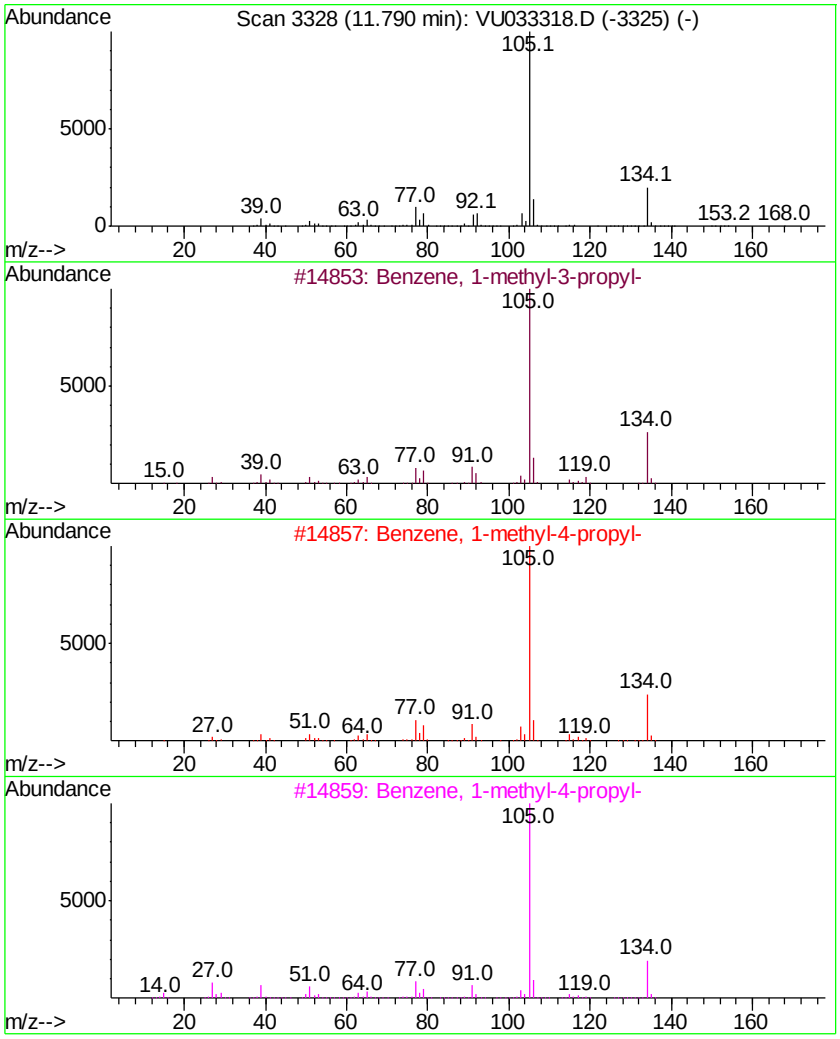
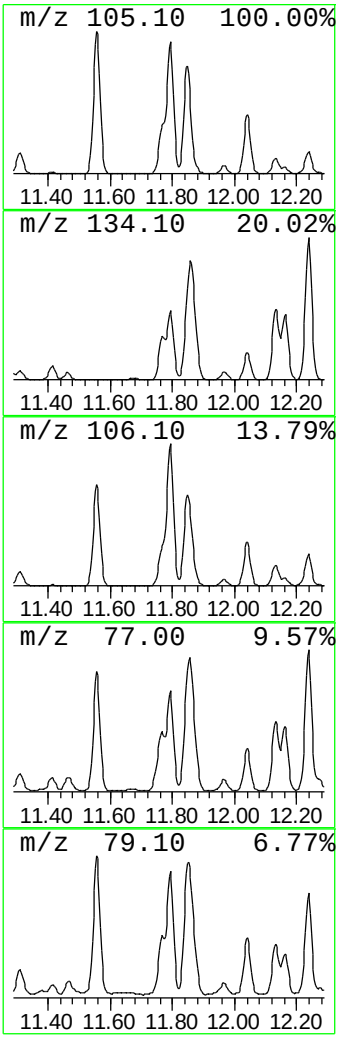
Peak Number 51 Benzene, 1-methyl-3-propyl- Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.79 | 76.44 ug/L | 2289830 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 91 |
| 2 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |
| 3 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |
| 4 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 91 |
| 5 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 87 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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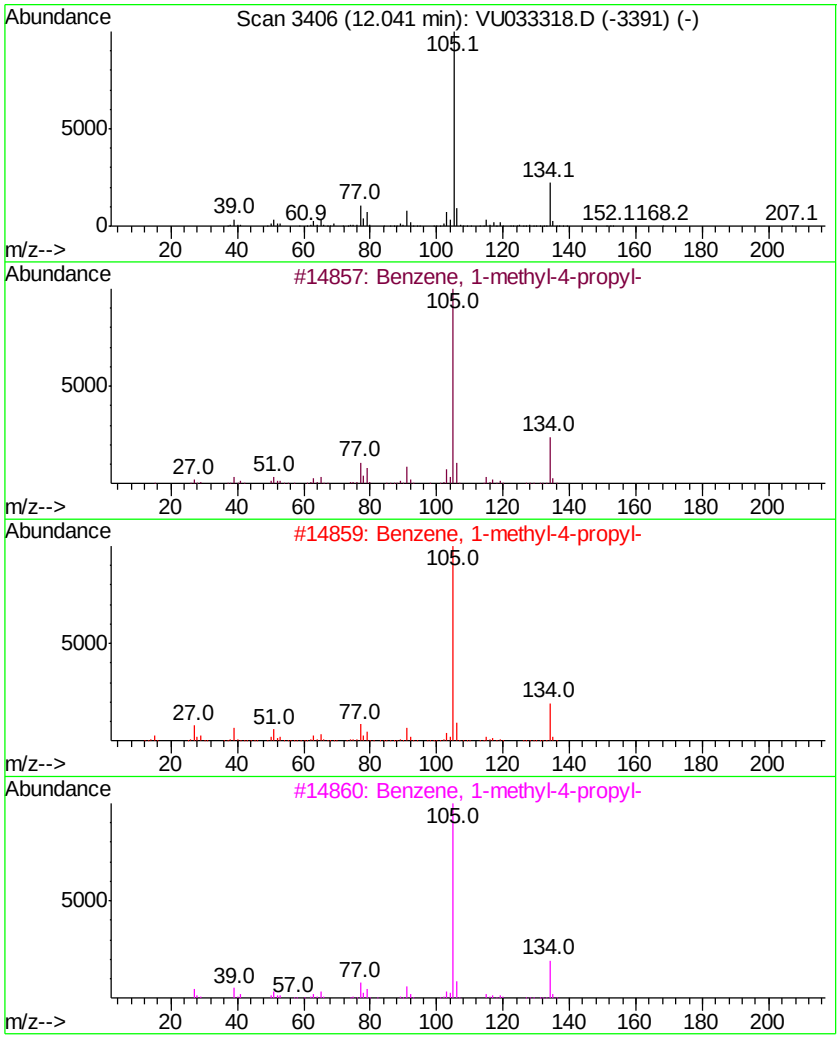
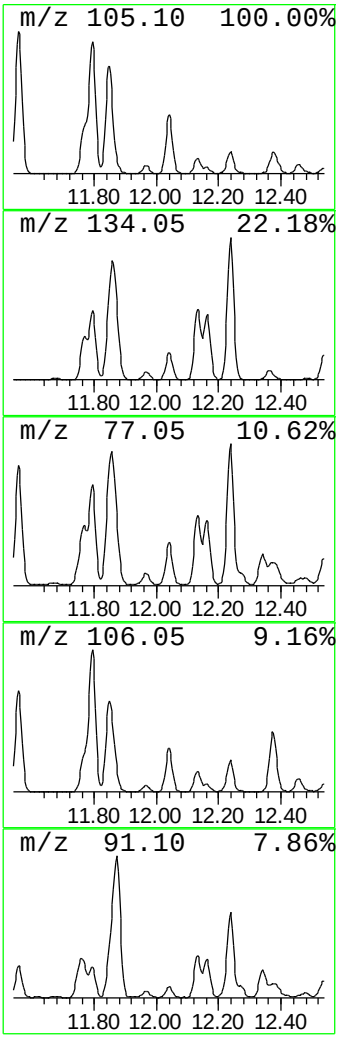
Peak Number 52 Benzene, 1-methyl-4-propyl- Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.04 | 43.42 ug/L | 1300720 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 95 |
| 2 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 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_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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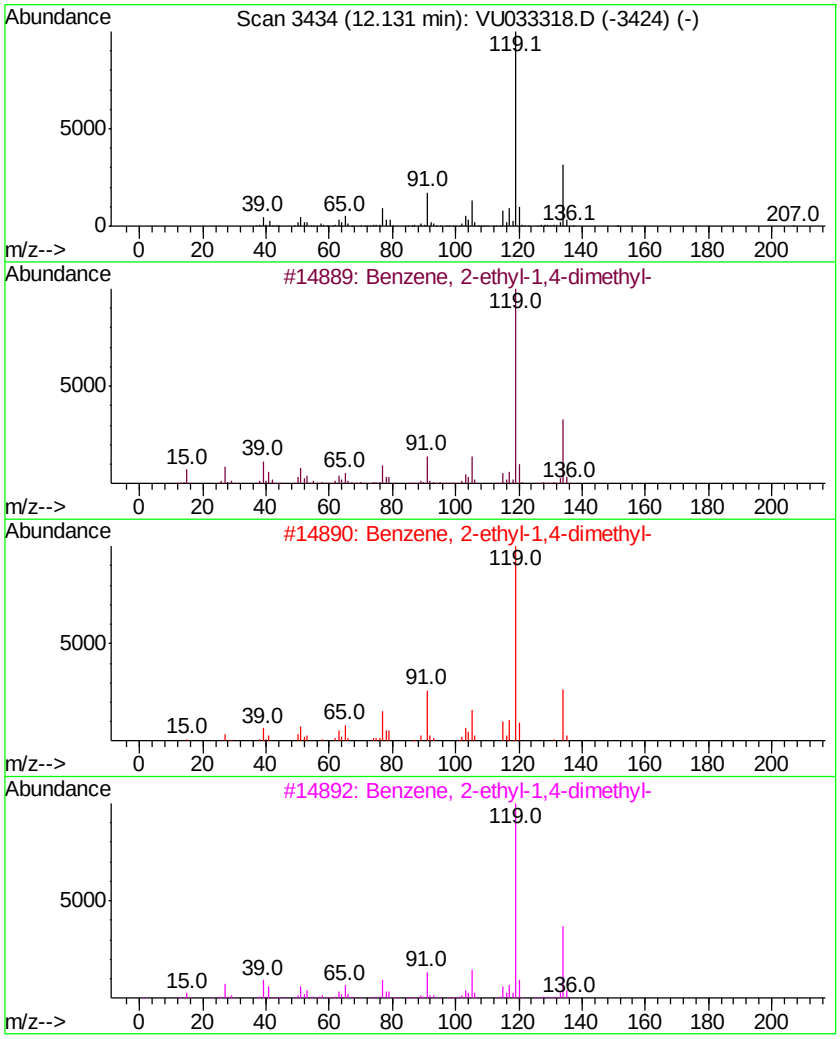
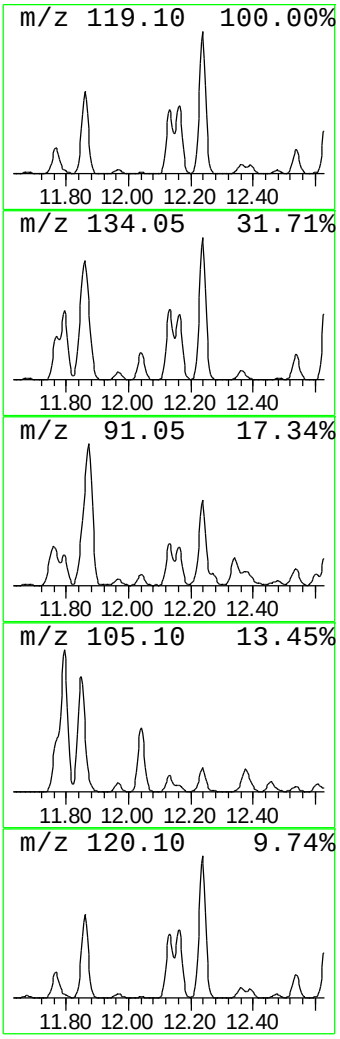
Peak Number 53 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.13 | 83.68 ug/L | 2506640 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 97 |
| 2 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 96 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 95 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

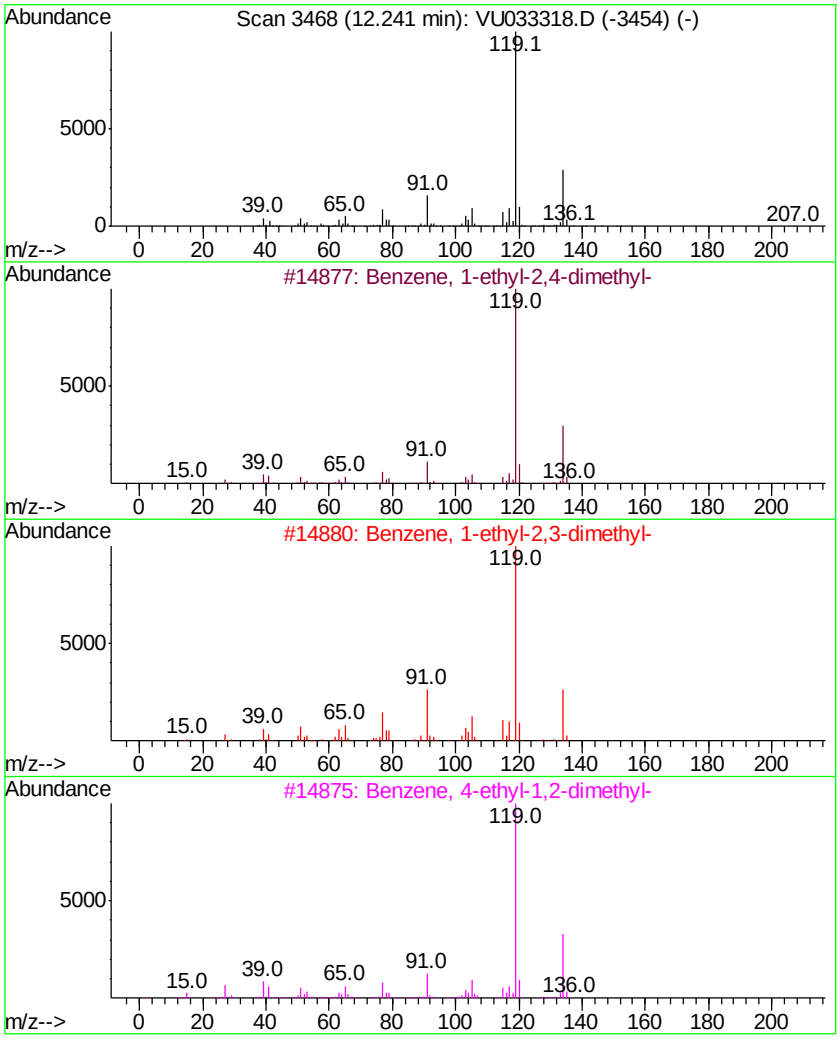
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

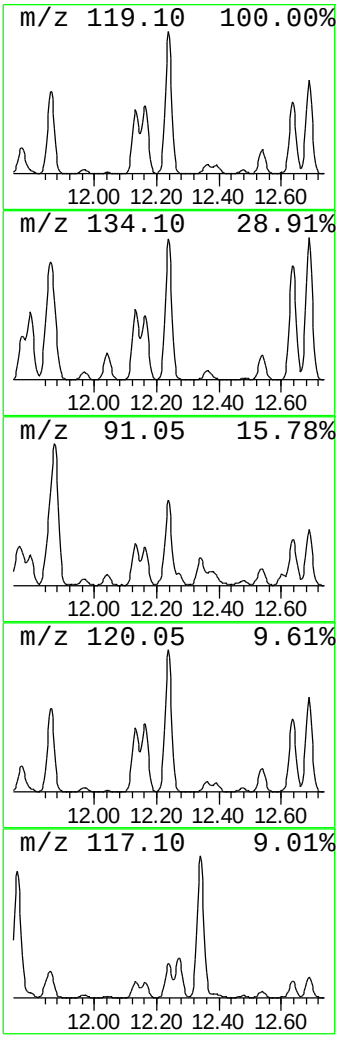
**********

Peak Number 55 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.24 | 172.21 ug/L | 5158650 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 97 |
| 2 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 96 |
| 3 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 95 |
| 4 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 95 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

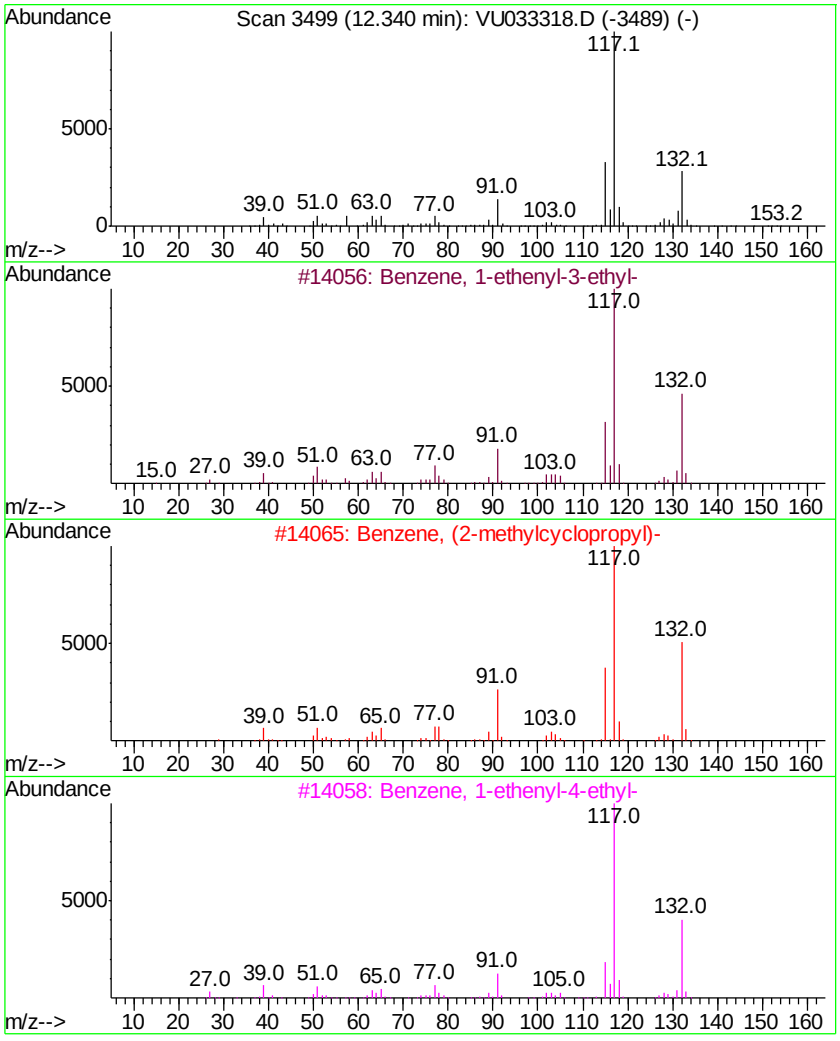
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

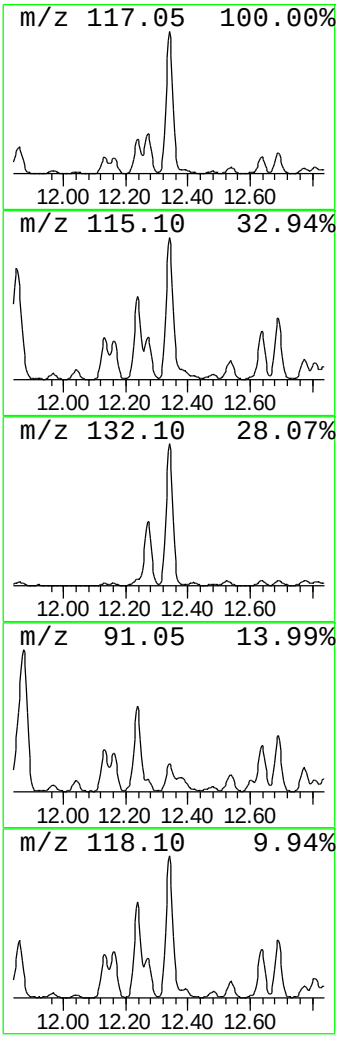
**********

Peak Number 56 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.34 | 80.57 ug/L | 2413550 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 91 |
| 2 | Benzene, (2-methylcyclopropyl)- | 132 | C10H12 | 1000327-39-0 | 90 |
| 3 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 90 |
| 4 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 90 |
| 5 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 90 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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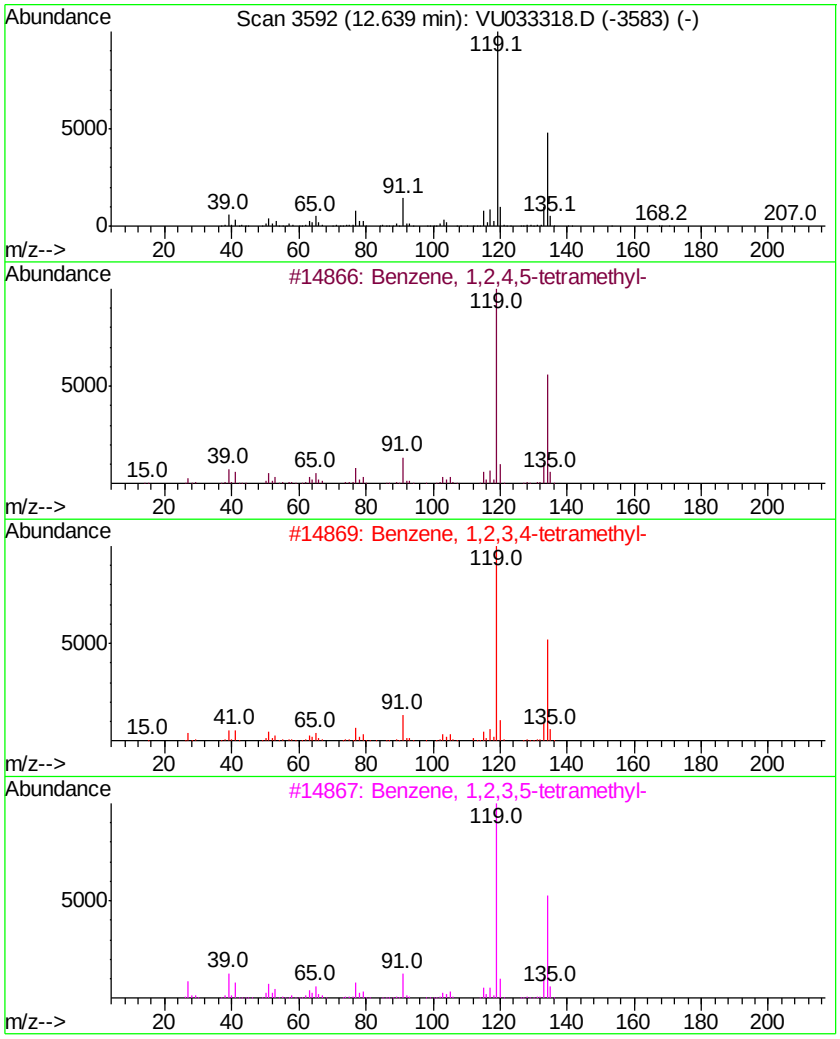
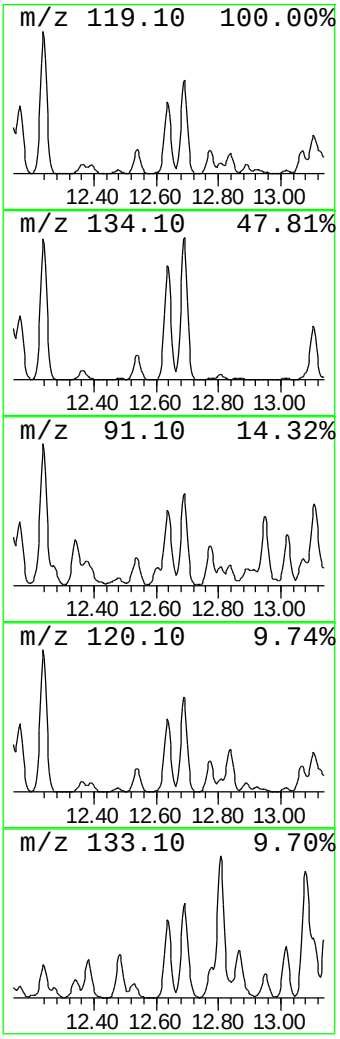
Peak Number 58 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.64 | 94.87 ug/L | 2841920 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 95 |
| 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, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 94 |
| 5 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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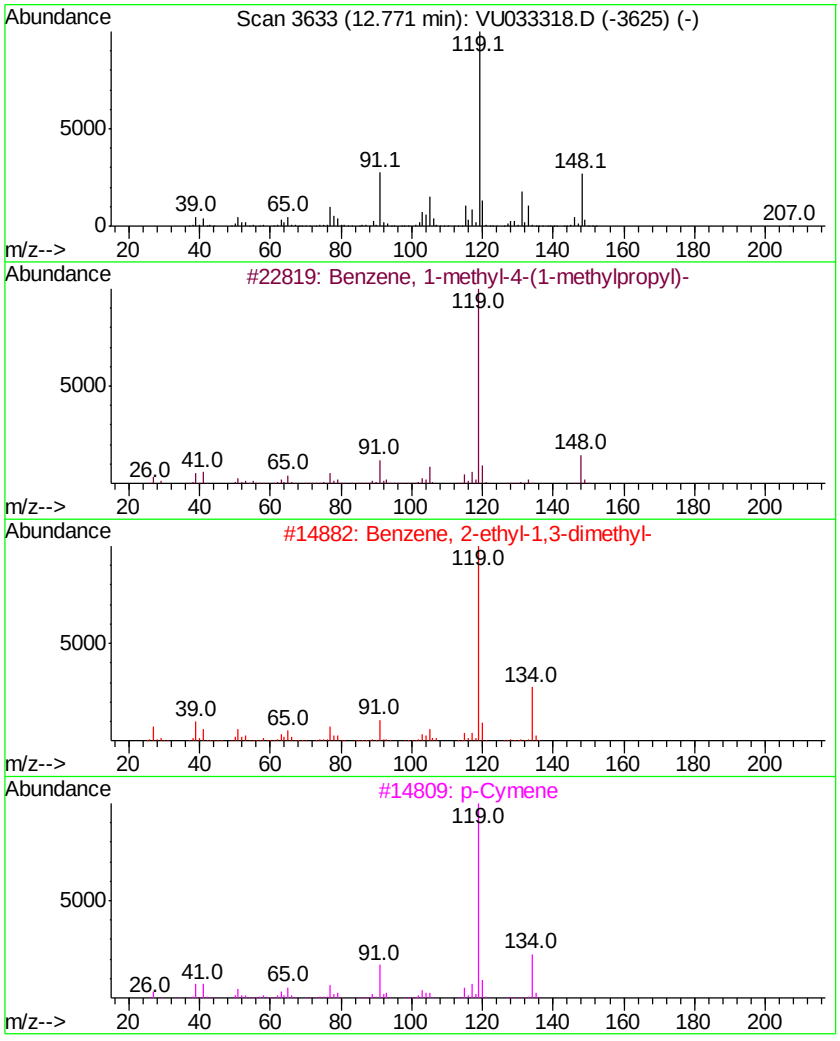
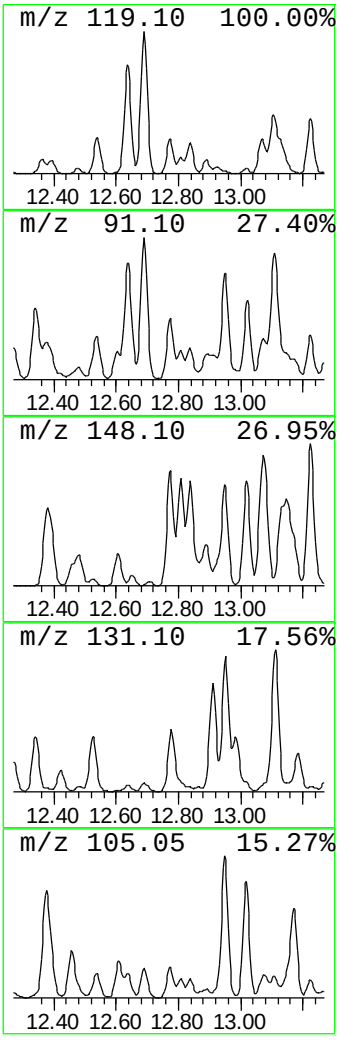
Peak Number 60 Benzene, 1-methyl-4-(1-meth... Concentration Rank 48

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.77 | 36.28 ug/L | 1086900 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16 | 001595-16-0 | 70 |
| 2 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 64 |
| 3 | p-Cymene | 134 | C10H14 | 000099-87-6 | 60 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 60 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 60 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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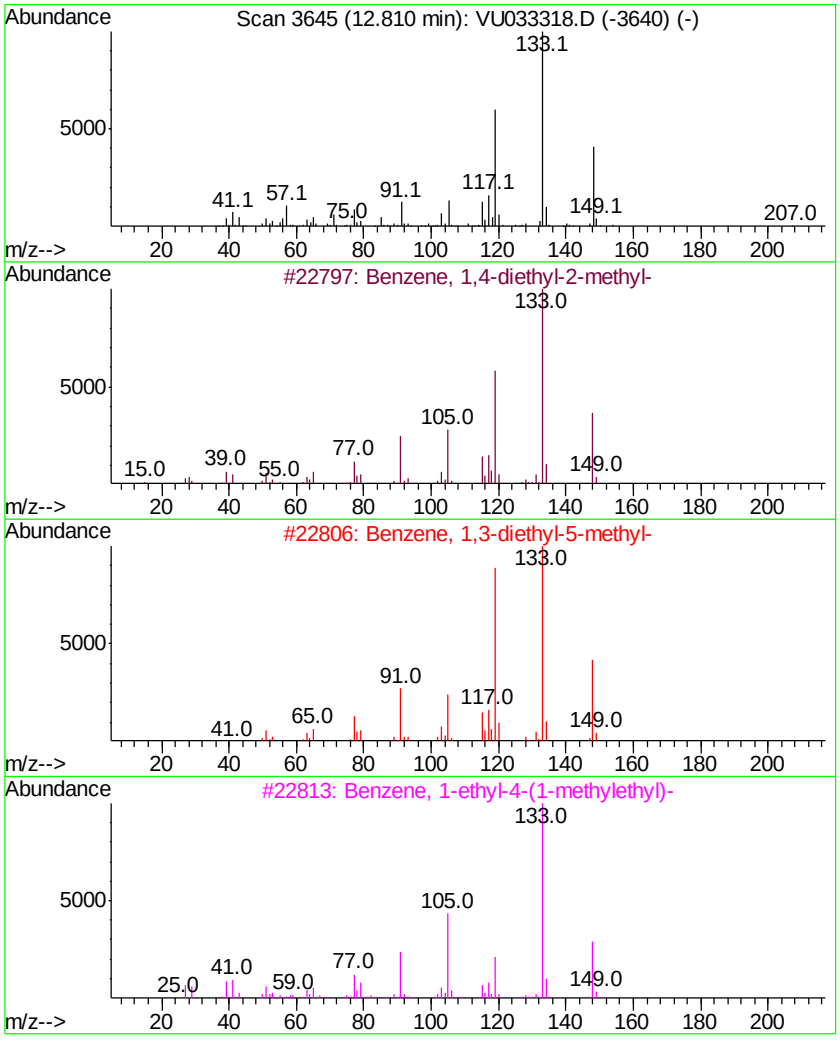
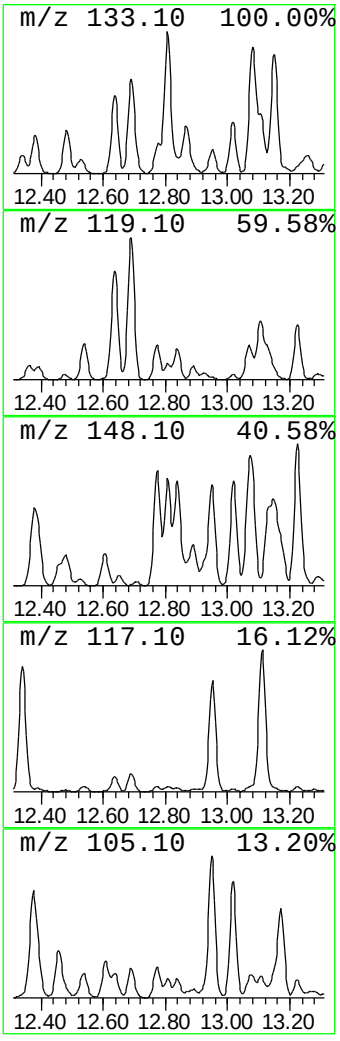
Peak Number 61 Benzene, 1,4-diethyl-2-methyl- Concentration Rank 73

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.81 | 19.26 ug/L | 576806 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,4-diethyl-2-methyl- | 148 | C11H16 | 013632-94-5 | 94 |
| 2 | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16 | 002050-24-0 | 81 |
| 3 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 80 |
| 4 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 76 |
| 5 | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16 | 002050-24-0 | 76 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

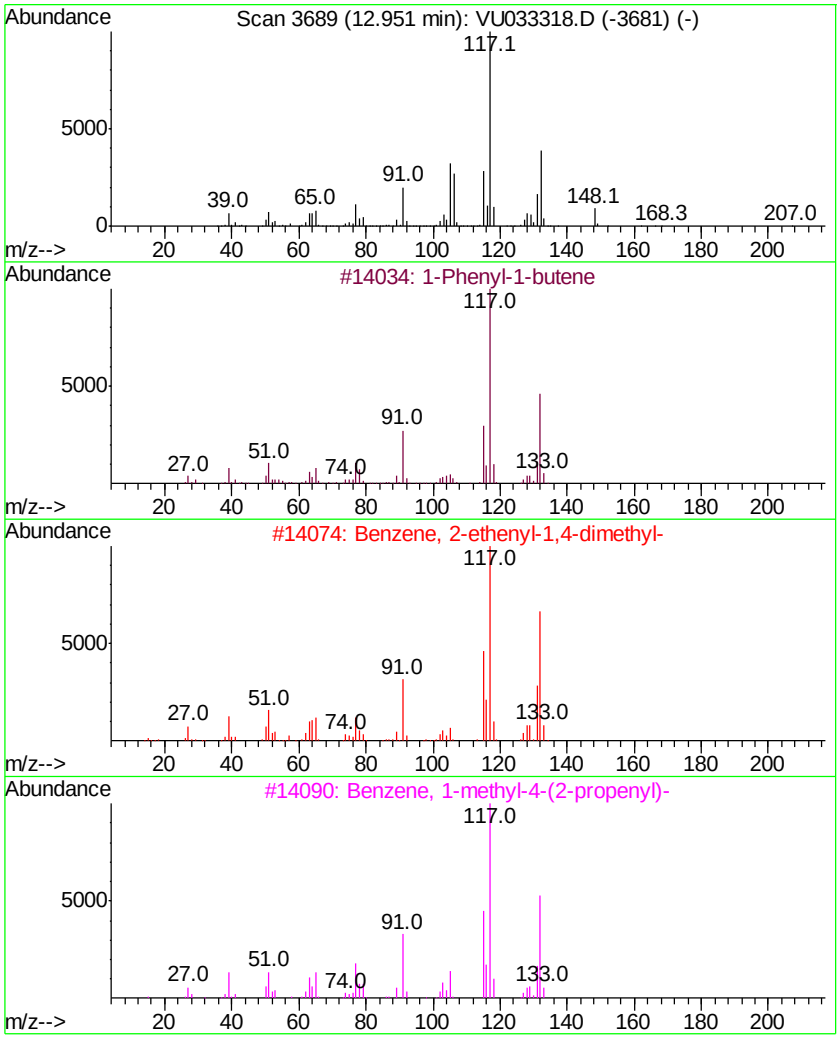
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

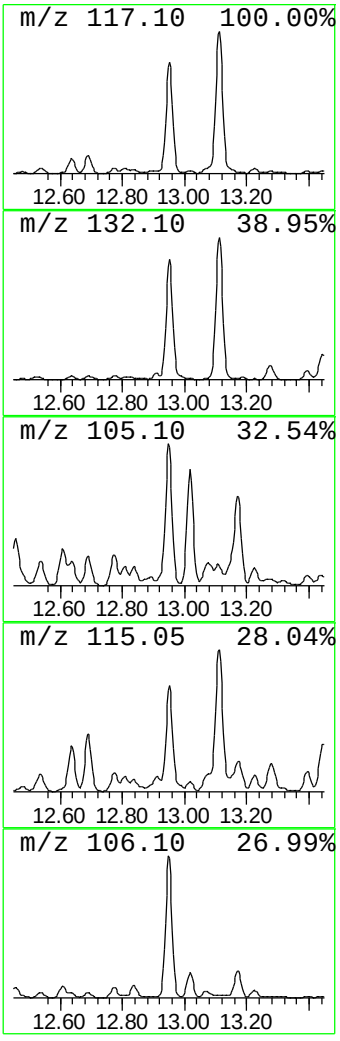
**********

Peak Number 63 1-Phenyl-1-butene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.95 | 91.20 ug/L | 2731780 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 95 |
| 2 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 92 |
| 3 | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12 | 003333-13-9 | 91 |
| 4 | Benzene, (1-methyl-1-propenyl)-, ... | 132 | C10H12 | 000768-00-3 | 90 |
| 5 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 81 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

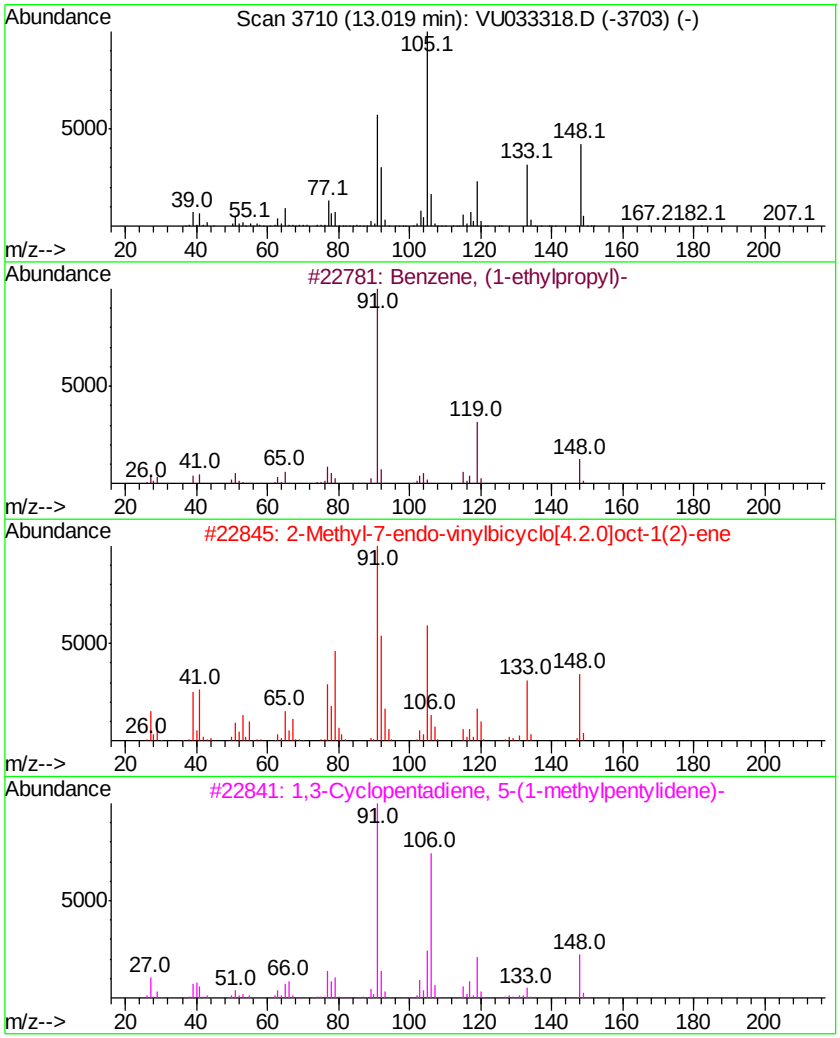
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

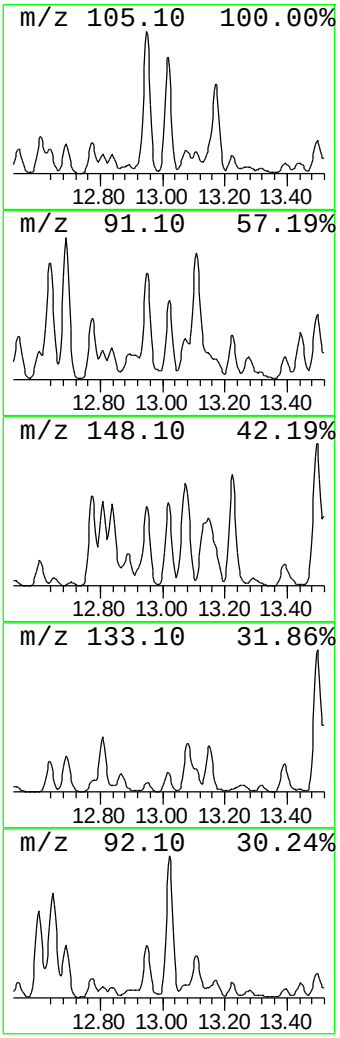
**********

Peak Number 64 Benzene, (1-ethylpropyl)- Concentration Rank 69

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.02 | 22.89 ug/L | 685655 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-ethylpropyl)- | 148 | C11H16 | 001196-58-3 | 50 |
| 2 | 2-Methyl-7-endo-vinylbicyclo[4.2... | 148 | C11H16 | 1000200-99-1 | 50 |
| 3 | 1,3-Cyclopentadiene, 5-(1-methyl... | 148 | C11H16 | 061039-45-0 | 47 |
| 4 | 2-Butanone, 4-phenyl- | 148 | C10H12O | 002550-26-7 | 43 |
| 5 | 3-Buten-2-ol, 4-phenyl-, (E)- | 148 | C10H12O | 1000163-70-9 | 43 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

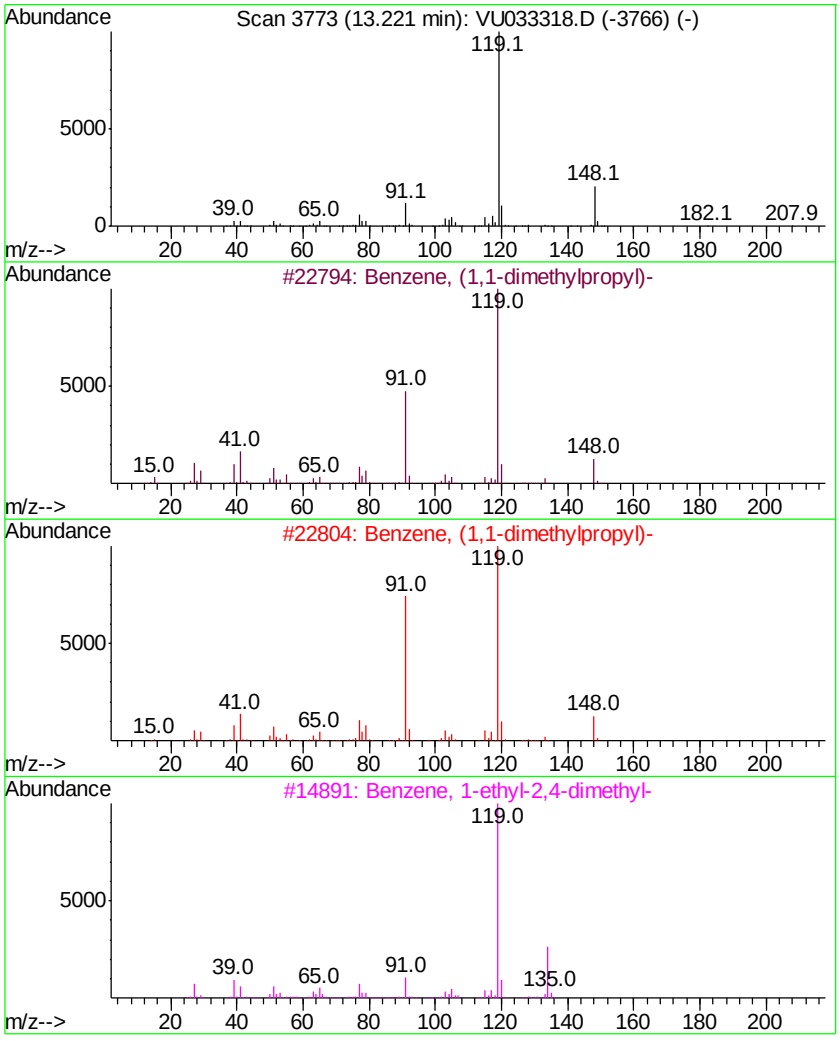
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

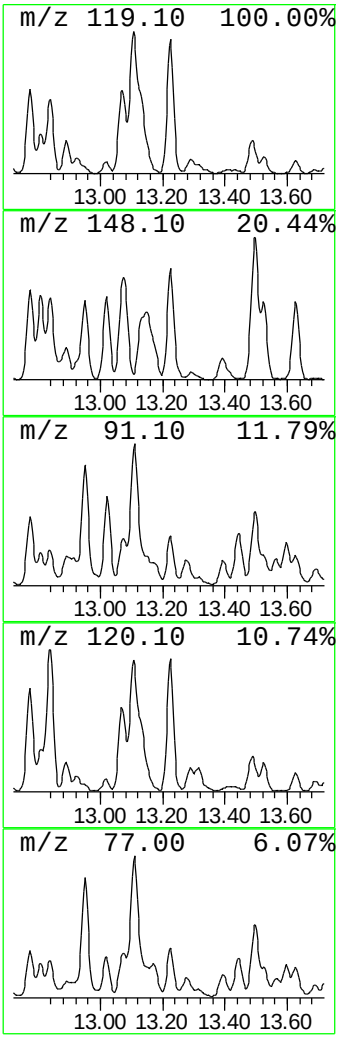
**********

Peak Number 67 Benzene, (1,1-dimethylpropyl)- Concentration Rank 58

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.22 | 30.00 ug/L | 898540 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 83 |
| 2 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 83 |
| 3 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 80 |
| 4 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 72 |
| 5 | Benzene, 1,1'-(1,1,2,2-tetrameth... | 238 | C18H22 | 001889-67-4 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

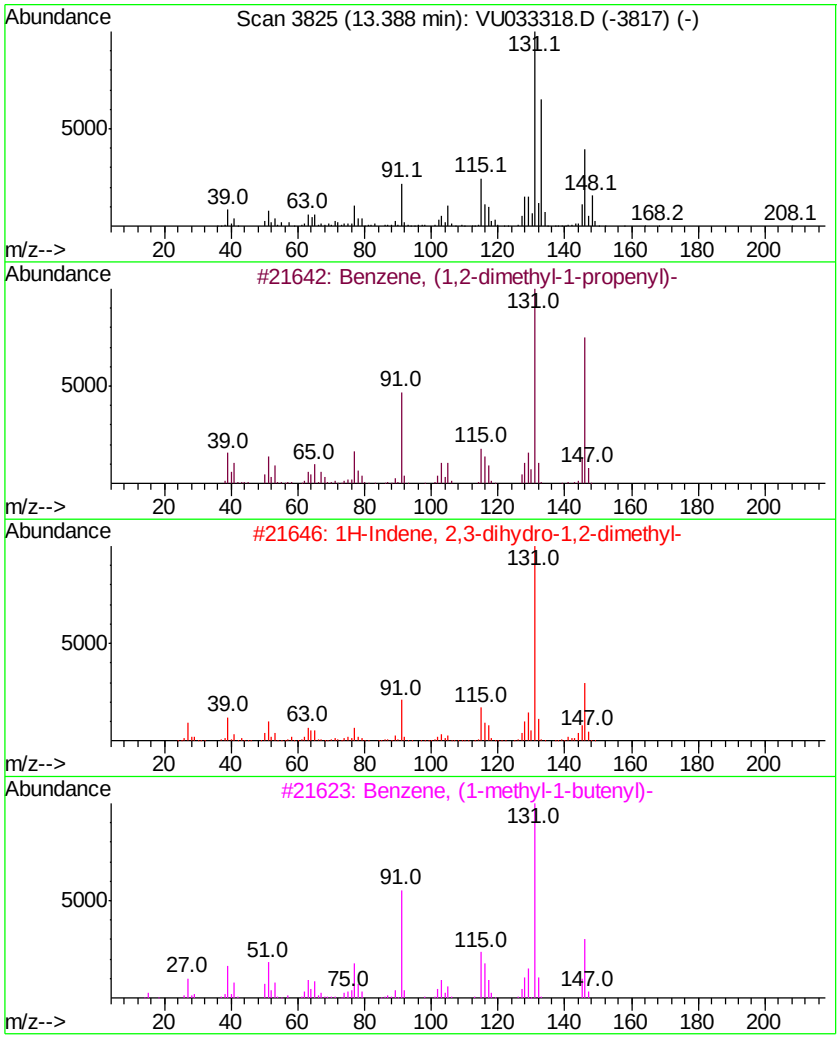
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

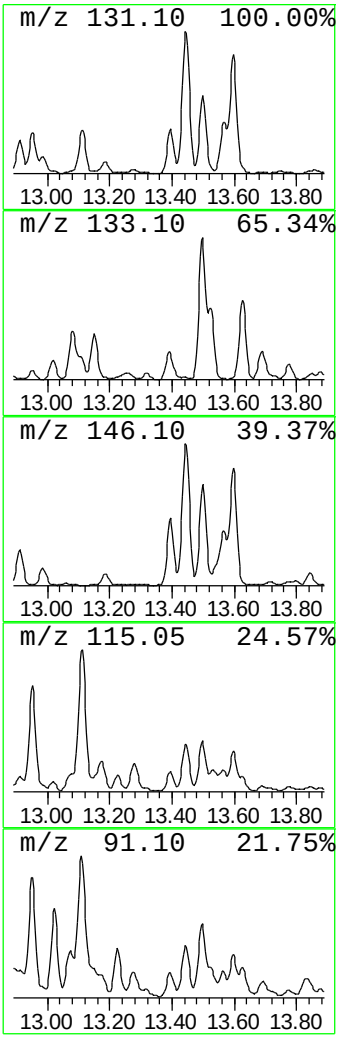
**********

Peak Number 69 Benzene, (1,2-dimethyl-1-pr... Concentration Rank 65

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.39 | 25.41 ug/L | 761117 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14 | 000769-57-3 | 95 |
| 2 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 90 |
| 3 | Benzene, (1-methyl-1-butenyl)- | 146 | C11H14 | 053172-84-2 | 76 |
| 4 | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14 | 004175-53-5 | 76 |
| 5 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001559-81-5 | 76 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

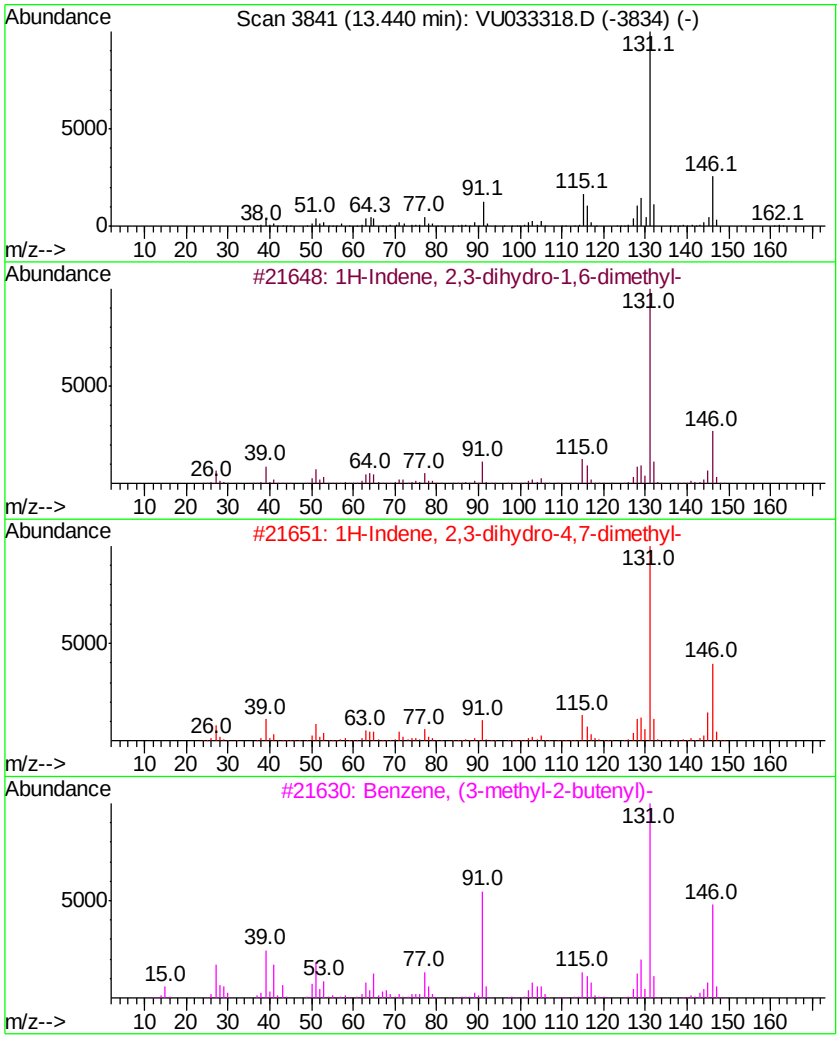
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

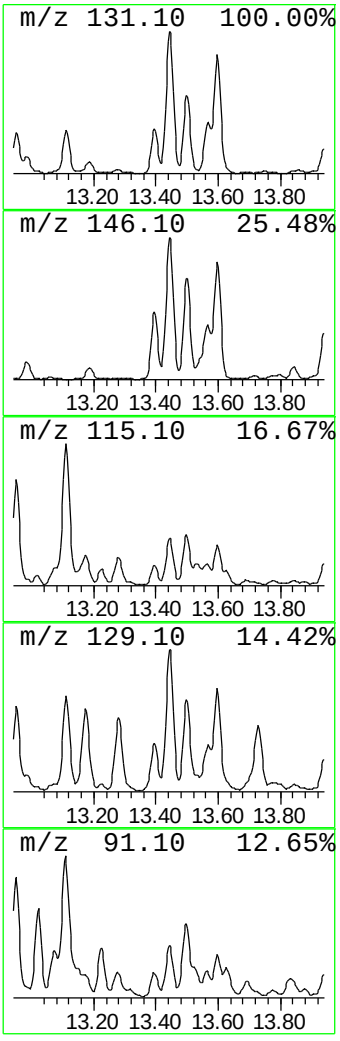
**********

Peak Number 70 1H-Indene, 2,3-dihydro-1,6-... Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.44 | 42.02 ug/L | 1258650 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14 | 017059-48-2 | 94 |
| 2 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 94 |
| 3 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 94 |
| 4 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 91 |
| 5 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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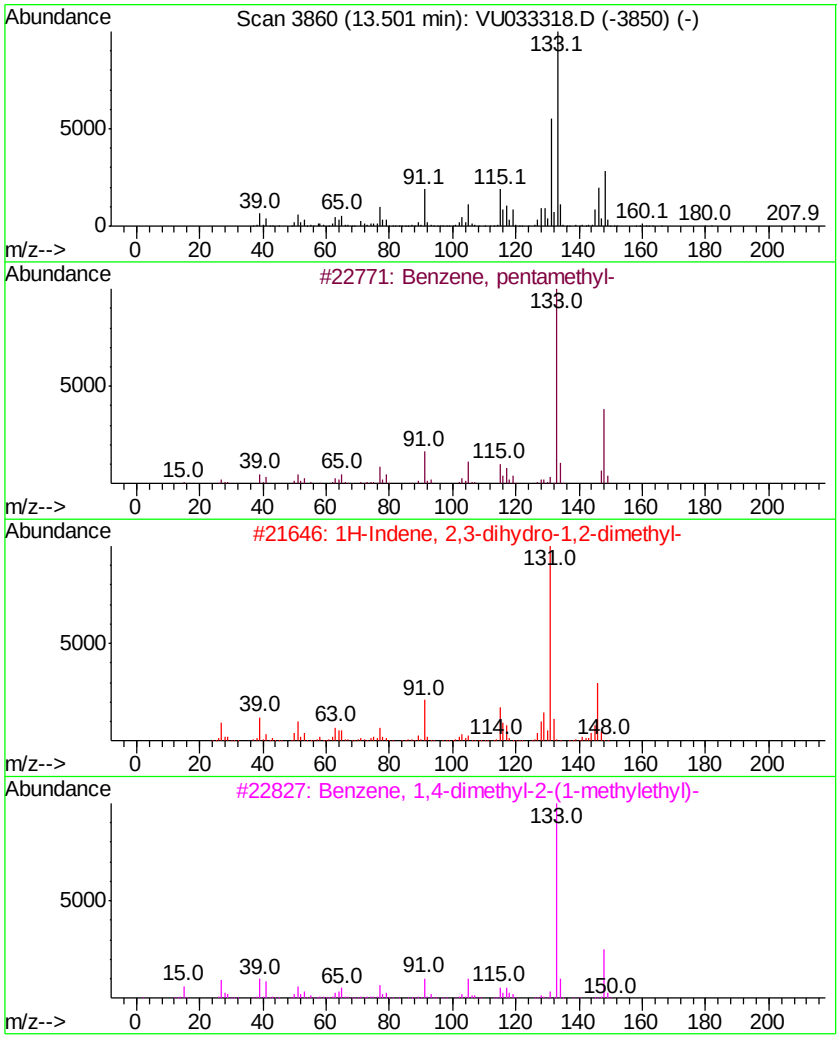
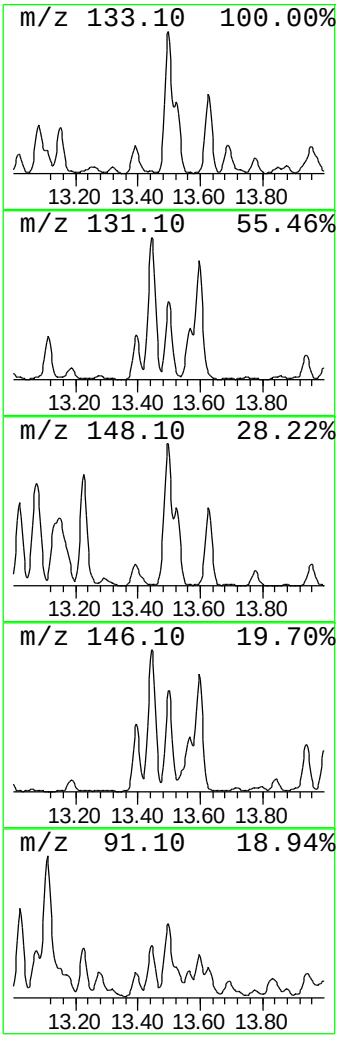
Peak Number 71 Benzene, pentamethyl- Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.50 | 69.05 ug/L | 2068250 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 64 |
| 2 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 52 |
| 3 | Benzene, 1,4-dimethyl-2-(1-methy... | 148 | C11H16 | 004132-72-3 | 52 |
| 4 | 1,5,6,7-Tetramethylbicyclo[3.2.0... | 148 | C11H16 | 134329-46-7 | 52 |
| 5 | 4-tert-Butyltoluene | 148 | C11H16 | 000098-51-1 | 49 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

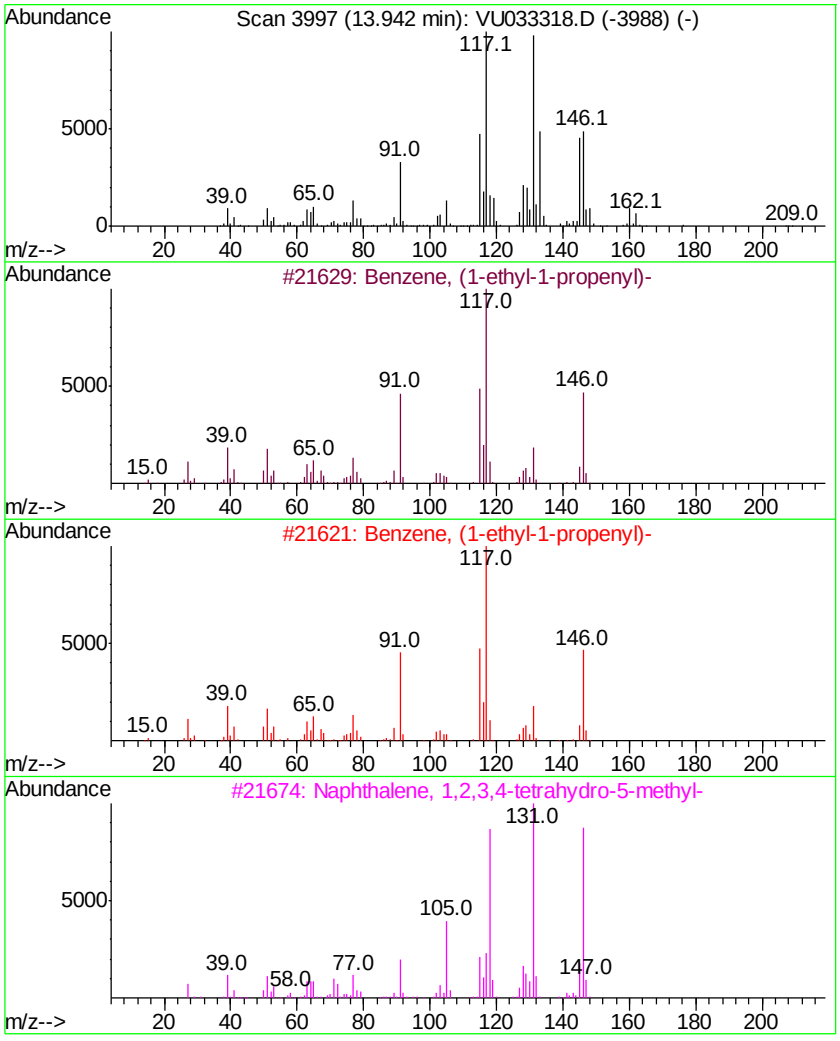
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

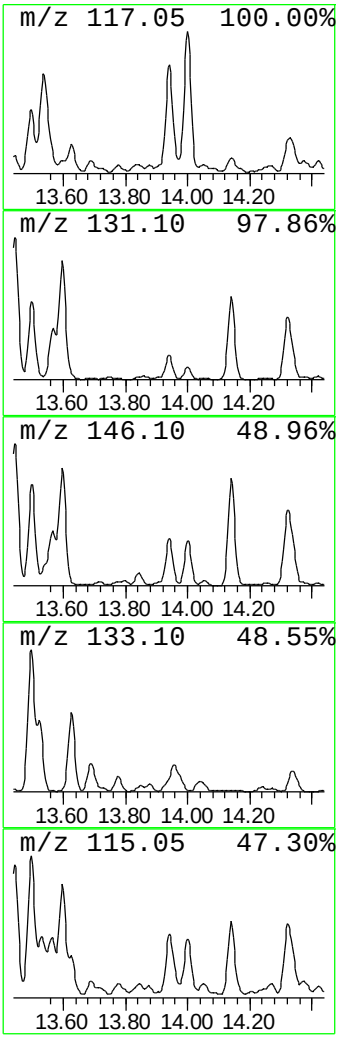
**********

Peak Number 74 unknown-01 Concentration Rank 62

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.94 | 27.34 ug/L | 818844 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-ethyl-1-propenyl)- | 146 | C11H14 | 004701-36-4 | 46 |
| 2 | Benzene, (1-ethyl-1-propenyl)- | 146 | C11H14 | 004701-36-4 | 46 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 002809-64-5 | 43 |
| 4 | Benzene, (1-methyl-1-butenyl)- | 146 | C11H14 | 053172-84-2 | 43 |
| 5 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 41 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

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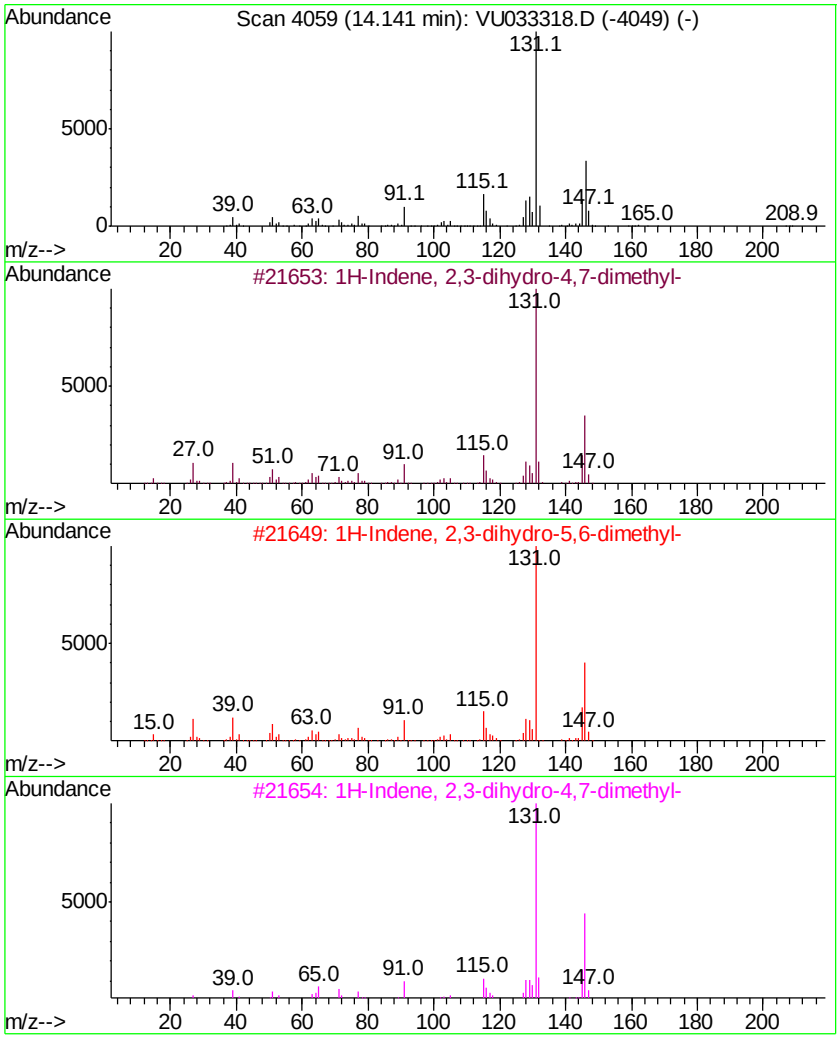
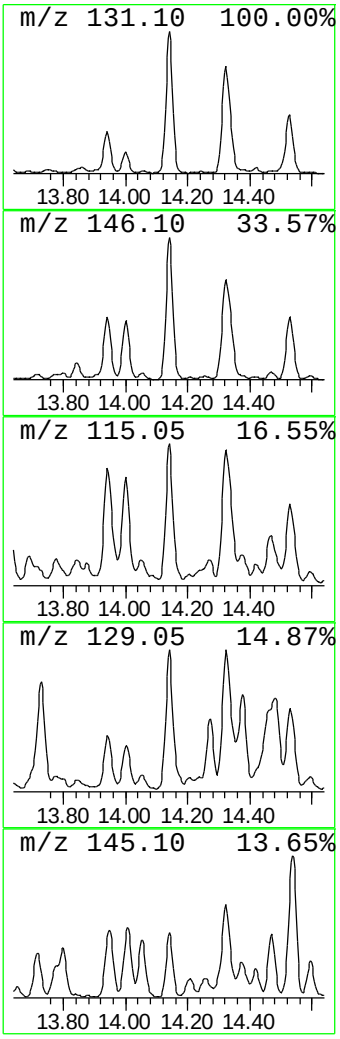
Peak Number 75 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 53

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.14 | 31.60 ug/L | 946445 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 97 |
| 2 | 1H-Indene, 2,3-dihydro-5,6-dimet... | 146 | C11H14 | 001075-22-5 | 95 |
| 3 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 94 |
| 4 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 94 |
| 5 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 94 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

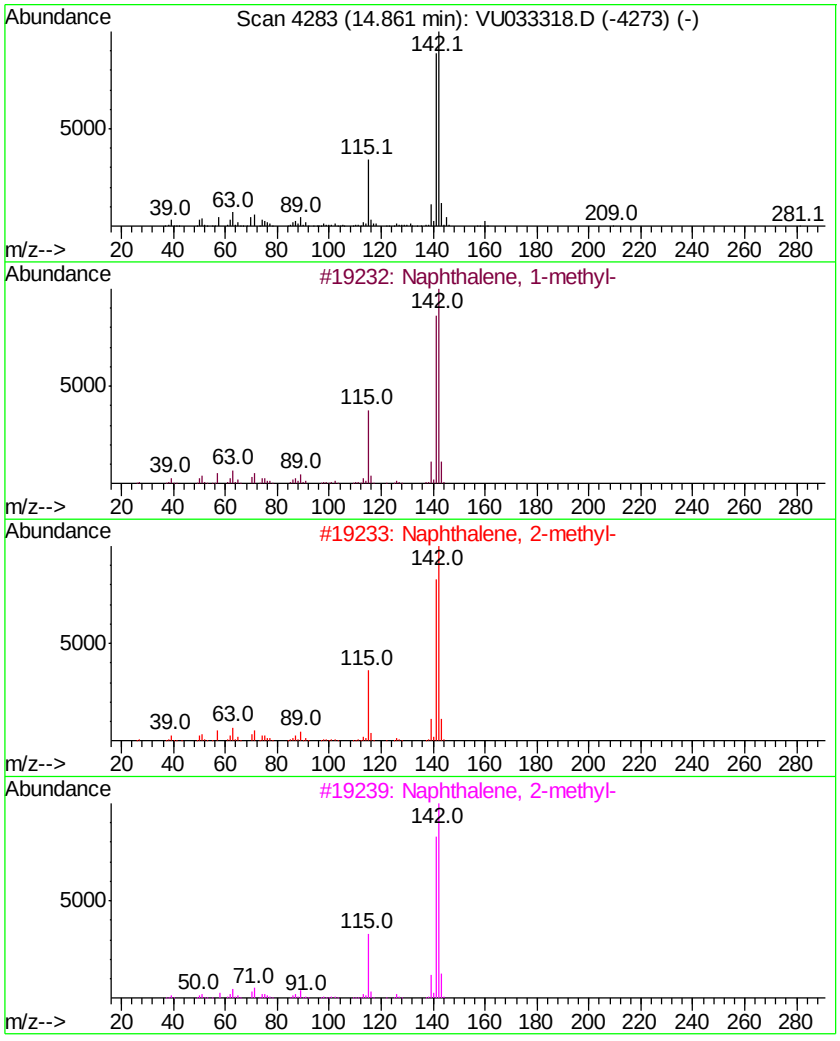
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

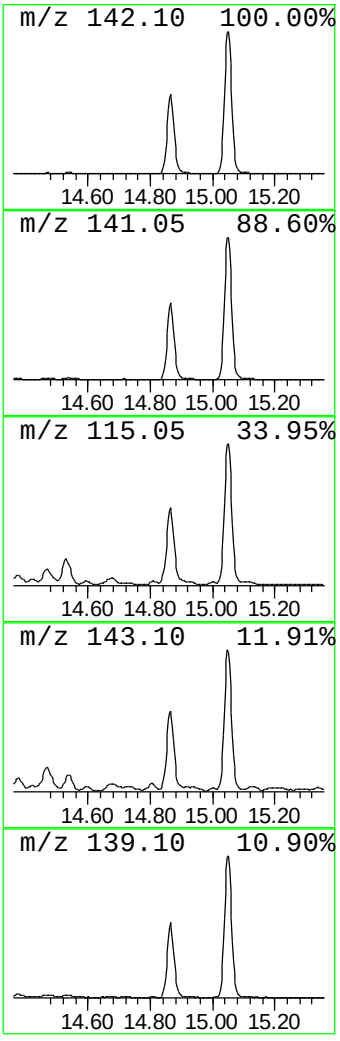
**********

Peak Number 79 Naphthalene, 1-methyl- Concentration Rank 52

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.86 | 32.45 ug/L | 972088 | 1,4-Dichlorobenzene-d4 | 11.47 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 3 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 4 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 94 |
| 5 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 94 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU071819\
Data File : VU033318.D
Acq On : 18 Jul 2019 14:46
Operator : JC/SP
Sample : K3831-01
Misc : 16.92g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAMR0

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM071219WMA.M
Quant Title : VOC Analysis

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| (DEL) Alkane: Str... | 1.69 | 38.3 | ug/L | 641262 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Str... | 2.70 | 48.0 | ug/L | 804225 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Str... | 2.95 | 43.7 | ug/L | 731691 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Str... | 3.26 | 32.8 | ug/L | 548856 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Str... | 3.95 | 46.6 | ug/L | 780649 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Cyc... | 4.04 | 83.1 | ug/L | 1391930 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Str... | 5.04 | 181.2 | ug/L | 3033560 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Str... | 5.18 | 107.4 | ug/L | 1798320 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Cyc... | 5.45 | 40.7 | ug/L | 681003 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Str... | 5.50 | 273.9 | ug/L | 4586100 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Cyc... | 5.59 | 63.1 | ug/L | 1057280 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Str... | 5.75 | 66.3 | ug/L | 1109310 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Cyc... | 5.92 | 80.0 | ug/L | 1338450 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Cyc... | 6.19 | 46.7 | ug/L | 781322 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Str... | 6.51 | 33.9 | ug/L | 566705 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Cyc... | 6.62 | 30.4 | ug/L | 509116 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Cyc... | 6.71 | 28.7 | ug/L | 479909 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Cyc... | 6.81 | 26.9 | ug/L | 450026 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Str... | 6.90 | 153.3 | ug/L | 2566990 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Str... | 7.03 | 138.6 | ug/L | 2320080 | 1 | 5.86 | 837058 | 50.0 |
| Dimethylmalonic a... | 7.08 | 39.0 | ug/L | 652356 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Str... | 7.16 | 82.4 | ug/L | 1379200 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Str... | 7.32 | 63.5 | ug/L | 1063740 | 1 | 5.86 | 837058 | 50.0 |
| (DEL) Alkane: Cyc... | 7.68 | 22.6 | ug/L | 491755 | 2 | 9.07 | 1090180 | 50.0 |
| 1H-Pyrazole, 4,5-... | 7.89 | 55.6 | ug/L | 1211400 | 2 | 9.07 | 1090180 | 50.0 |
| (DEL) Alkane: Cyc... | 8.03 | 26.4 | ug/L | 575918 | 2 | 9.07 | 1090180 | 50.0 |
| 1,4-Hexadiene, 2,... | 8.07 | 30.2 | ug/L | 658939 | 2 | 9.07 | 1090180 | 50.0 |
| (DEL) Alkane: Str... | 8.44 | 24.0 | ug/L | 522555 | 2 | 9.07 | 1090180 | 50.0 |
| (DEL) Alkane: Cyc... | 8.53 | 39.9 | ug/L | 869292 | 2 | 9.07 | 1090180 | 50.0 |
| (DEL) Alkane: Cyc... | 8.59 | 32.9 | ug/L | 717279 | 2 | 9.07 | 1090180 | 50.0 |
| (DEL) Alkane: Cyc... | 8.74 | 31.1 | ug/L | 678362 | 2 | 9.07 | 1090180 | 50.0 |
| (DEL) Alkane: Str... | 8.89 | 47.4 | ug/L | 1033980 | 2 | 9.07 | 1090180 | 50.0 |
| (DEL) Alkane: Str... | 9.01 | 51.7 | ug/L | 1127390 | 2 | 9.07 | 1090180 | 50.0 |
| (DEL) Alkane: Str... | 9.43 | 69.4 | ug/L | 1513080 | 2 | 9.07 | 1090180 | 50.0 |
| (DEL) Alkane: Cyc... | 9.70 | 28.1 | ug/L | 612680 | 2 | 9.07 | 1090180 | 50.0 |
| (DEL) Alkane: Str... | 9.94 | 56.7 | ug/L | 1235290 | 2 | 9.07 | 1090180 | 50.0 |
| (DEL) Alkane: Cyc... | 10.03 | 30.0 | ug/L | 653409 | 2 | 9.07 | 1090180 | 50.0 |
| 5,5-Dimethyl-cycl... | 10.34 | 24.2 | ug/L | 725649 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, propyl- | 10.57 | 89.3 | ug/L | 2676620 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, 1-ethyl-... | 10.67 | 104.3 | ug/L | 3125220 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, 1,2,3-tr... | 10.76 | 75.7 | ug/L | 2265950 | 3 | 11.47 | 1497750 | 50.0 |
| (DEL) Alkane: Str... | 10.80 | 24.9 | ug/L | 746762 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, 1-ethyl-... | 10.96 | 82.3 | ug/L | 2464120 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, (2-methy... | 11.28 | 18.4 | ug/L | 550334 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, (1-methy... | 11.31 | 17.2 | ug/L | 514213 | 3 | 11.47 | 1497750 | 50.0 |
| o-Cymene | 11.41 | 17.1 | ug/L | 512143 | 3 | 11.47 | 1497750 | 50.0 |
| Bicyclo[4.2.0]oct... | 11.76 | 118.7 | ug/L | 3555250 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, 1-methyl... | 11.79 | 76.4 | ug/L | 2289830 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, 1-methyl... | 12.04 | 43.4 | ug/L | 1300720 | 3 | 11.47 | 1497750 | 50.0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Benzene, 2-ethyl-... | 12.13 | 83.7 | ug/L | 2506640 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, 1-ethyl-... | 12.24 | 172.2 | ug/L | 5158650 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, 1-etheny... | 12.34 | 80.6 | ug/L | 2413550 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, 1,2,4,5-... | 12.64 | 94.9 | ug/L | 2841920 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, 1-methyl... | 12.77 | 36.3 | ug/L | 1086900 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, 1,4-diet... | 12.81 | 19.3 | ug/L | 576806 | 3 | 11.47 | 1497750 | 50.0 |
| 1-Phenyl-1-butene | 12.95 | 91.2 | ug/L | 2731780 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, (1-ethyl... | 13.02 | 22.9 | ug/L | 685655 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, (1,1-dim... | 13.22 | 30.0 | ug/L | 898540 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, (1,2-dim... | 13.39 | 25.4 | ug/L | 761117 | 3 | 11.47 | 1497750 | 50.0 |
| 1H-Indene, 2,3-di... | 13.44 | 42.0 | ug/L | 1258650 | 3 | 11.47 | 1497750 | 50.0 |
| Benzene, pentamet... | 13.50 | 69.0 | ug/L | 2068250 | 3 | 11.47 | 1497750 | 50.0 |
| unknown-01 | 13.94 | 27.3 | ug/L | 818844 | 3 | 11.47 | 1497750 | 50.0 |
| 1H-Indene, 2,3-di... | 14.14 | 31.6 | ug/L | 946445 | 3 | 11.47 | 1497750 | 50.0 |
| Naphthalene, 1-me... | 14.86 | 32.5 | ug/L | 972088 | 3 | 11.47 | 1497750 | 50.0 |

**Instrument :**
MSVOA_U
**ClientSampleId :**
GAMR0