LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100418\
Data File : VU027404.D
Acq On : 04 Oct 2018 13:32
Operator : MD/SY
Sample : J5084-03 10X
Misc : 5.82g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** B-9(11.5-12)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Title : SW846 8260

Signal : TIC

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.402 | 64 | 71 | 80 | rBV | 28345 | 27248 | 3.54% | 0.265% |
| 2 | 1.585 | 111 | 128 | 137 | rBV5 | 8129 | 18098 | 2.35% | 0.176% |
| 3 | 1.746 | 168 | 178 | 203 | rVB | 163376 | 222310 | 28.91% | 2.160% |
| 4 | 1.942 | 230 | 239 | 261 | rVB | 83663 | 123856 | 16.11% | 1.203% |
| 5 | 2.045 | 262 | 271 | 281 | rVB | 11181 | 15570 | 2.03% | 0.151% |
| 6 | 2.183 | 306 | 314 | 327 | rVB | 14538 | 23027 | 2.99% | 0.224% |
| 7 | 2.707 | 464 | 477 | 478 | rBV2 | 34139 | 46080 | 5.99% | 0.448% |
| 8 | 2.743 | 480 | 488 | 499 | rVB | 98364 | 184911 | 24.05% | 1.797% |
| 9 | 2.997 | 551 | 567 | 589 | rVB | 65054 | 137650 | 17.90% | 1.337% |
| 10 | 3.186 | 613 | 626 | 640 | rBV2 | 6524 | 13703 | 1.78% | 0.133% |
| 11 | 3.302 | 648 | 662 | 682 | rBV2 | 49377 | 106637 | 13.87% | 1.036% |
| 12 | 3.553 | 731 | 740 | 757 | rVB4 | 10722 | 24804 | 3.23% | 0.241% |
| 13 | 3.662 | 762 | 774 | 785 | rBV6 | 5647 | 12527 | 1.63% | 0.122% |
| 14 | 3.890 | 825 | 845 | 859 | rVB8 | 8466 | 24335 | 3.17% | 0.236% |
| 15 | 3.993 | 861 | 877 | 893 | rVV3 | 29058 | 80404 | 10.46% | 0.781% |
| 16 | 4.096 | 893 | 909 | 927 | rVV2 | 40101 | 107494 | 13.98% | 1.044% |
| 17 | 4.196 | 927 | 940 | 961 | rVB6 | 5728 | 19118 | 2.49% | 0.186% |
| 18 | 4.781 | 1113 | 1122 | 1138 | rVB3 | 9074 | 19631 | 2.55% | 0.191% |
| 19 | 4.884 | 1138 | 1154 | 1170 | rBV | 103947 | 235857 | 30.68% | 2.292% |
| 20 | 4.987 | 1170 | 1186 | 1201 | rVV3 | 207138 | 472116 | 61.41% | 4.587% |
| 21 | 5.080 | 1202 | 1215 | 1240 | rVB | 76210 | 200396 | 26.06% | 1.947% |
| 22 | 5.222 | 1240 | 1259 | 1273 | rBV | 67459 | 153828 | 20.01% | 1.495% |
| 23 | 5.312 | 1274 | 1287 | 1309 | rVB | 130717 | 275645 | 35.85% | 2.678% |
| 24 | 5.485 | 1322 | 1341 | 1344 | rBV5 | 22264 | 41319 | 5.37% | 0.401% |
| 25 | 5.537 | 1345 | 1357 | 1374 | rVV | 151858 | 389887 | 50.71% | 3.788% |
| 26 | 5.620 | 1374 | 1383 | 1397 | rVV5 | 17521 | 42128 | 5.48% | 0.409% |
| 27 | 5.784 | 1421 | 1434 | 1446 | rBV2 | 46437 | 94078 | 12.24% | 0.914% |
| 28 | 5.887 | 1454 | 1466 | 1478 | rBV | 221720 | 428578 | 55.74% | 4.164% |
| 29 | 5.948 | 1479 | 1485 | 1510 | rVB5 | 24743 | 67303 | 8.75% | 0.654% |
| 30 | 6.221 | 1555 | 1570 | 1581 | rBV5 | 8205 | 18893 | 2.46% | 0.184% |
| 31 | 6.414 | 1611 | 1630 | 1640 | rBV4 | 40333 | 105616 | 13.74% | 1.026% |
| 32 | 6.476 | 1641 | 1649 | 1658 | rVV2 | 25035 | 47701 | 6.20% | 0.463% |
| 33 | 6.533 | 1658 | 1667 | 1678 | rVV2 | 29659 | 59977 | 7.80% | 0.583% |
| 34 | 6.643 | 1692 | 1701 | 1712 | rVB5 | 12120 | 23052 | 3.00% | 0.224% |

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Sample : J5084-03 10X
Misc : 5.82g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** B-9(11.5-12)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 6.739 | 1715 | 1731 | 1744 | rVB5 | 9811 | 21538 | 2.80% | 0.209% |
| 36 | 6.929 | 1774 | 1790 | 1806 | rVB2 | 70648 | 148664 | 19.34% | 1.444% |
| 37 | 7.051 | 1808 | 1828 | 1839 | rBV3 | 62407 | 149339 | 19.42% | 1.451% |
| 38 | 7.106 | 1839 | 1845 | 1858 | rVB2 | 26624 | 45489 | 5.92% | 0.442% |
| 39 | 7.180 | 1859 | 1868 | 1876 | rBV2 | 38006 | 63503 | 8.26% | 0.617% |
| 40 | 7.344 | 1910 | 1919 | 1937 | rVB | 43245 | 86144 | 11.20% | 0.837% |
| 41 | 7.437 | 1939 | 1948 | 1962 | rVB9 | 9500 | 21045 | 2.74% | 0.204% |
| 42 | 7.527 | 1962 | 1976 | 1978 | rBV4 | 37609 | 56412 | 7.34% | 0.548% |
| 43 | 7.566 | 1978 | 1988 | 2003 | rVV | 440071 | 768852 | 100.00% | 7.470% |
| 44 | 7.639 | 2004 | 2011 | 2022 | rVB | 15942 | 27643 | 3.60% | 0.269% |
| 45 | 7.701 | 2022 | 2030 | 2037 | rBV5 | 8414 | 14491 | 1.88% | 0.141% |
| 46 | 7.823 | 2058 | 2068 | 2083 | rVB3 | 35934 | 70696 | 9.20% | 0.687% |
| 47 | 7.916 | 2085 | 2097 | 2116 | rVB6 | 11504 | 25888 | 3.37% | 0.252% |
| 48 | 8.048 | 2129 | 2138 | 2146 | rVB2 | 10479 | 16110 | 2.10% | 0.157% |
| 49 | 8.331 | 2220 | 2226 | 2239 | rVB4 | 9056 | 16223 | 2.11% | 0.158% |
| 50 | 8.456 | 2251 | 2265 | 2270 | rBV | 11666 | 21976 | 2.86% | 0.214% |
| 51 | 8.758 | 2344 | 2359 | 2368 | rBV9 | 6383 | 12843 | 1.67% | 0.125% |
| 52 | 8.819 | 2368 | 2378 | 2383 | rBV2 | 6705 | 11998 | 1.56% | 0.117% |
| 53 | 8.913 | 2398 | 2407 | 2418 | rVB3 | 30590 | 50562 | 6.58% | 0.491% |
| 54 | 9.032 | 2434 | 2444 | 2452 | rBV | 26251 | 42909 | 5.58% | 0.417% |
| 55 | 9.090 | 2452 | 2462 | 2475 | rVV | 339415 | 545692 | 70.97% | 5.302% |
| 56 | 9.250 | 2501 | 2512 | 2525 | rVV | 104480 | 167177 | 21.74% | 1.624% |
| 57 | 9.376 | 2539 | 2551 | 2565 | rVV | 175255 | 307167 | 39.95% | 2.984% |
| 58 | 9.443 | 2565 | 2572 | 2598 | rVB2 | 32958 | 69868 | 9.09% | 0.679% |
| 59 | 9.717 | 2648 | 2657 | 2666 | rBV5 | 11105 | 19528 | 2.54% | 0.190% |
| 60 | 9.781 | 2666 | 2677 | 2685 | rBV | 32930 | 52432 | 6.82% | 0.509% |
| 61 | 9.951 | 2712 | 2730 | 2740 | rBV6 | 11132 | 23394 | 3.04% | 0.227% |
| 62 | 10.048 | 2751 | 2760 | 2769 | rVV6 | 7749 | 13975 | 1.82% | 0.136% |
| 63 | 10.167 | 2785 | 2797 | 2808 | rBV | 18165 | 29799 | 3.88% | 0.290% |
| 64 | 10.308 | 2830 | 2841 | 2852 | rBV | 325257 | 514294 | 66.89% | 4.997% |
| 65 | 10.456 | 2879 | 2887 | 2894 | rBV | 12078 | 16195 | 2.11% | 0.157% |
| 66 | 10.588 | 2907 | 2928 | 2947 | rBV | 71280 | 127444 | 16.58% | 1.238% |
| 67 | 10.684 | 2947 | 2958 | 2960 | rBV2 | 78026 | 106147 | 13.81% | 1.031% |
| 68 | 10.774 | 2975 | 2986 | 2993 | rBV | 74730 | 115905 | 15.08% | 1.126% |
| 69 | 10.816 | 2993 | 2999 | 3015 | rVB2 | 24249 | 39653 | 5.16% | 0.385% |
| 70 | 10.970 | 3033 | 3047 | 3066 | rBV | 74339 | 121395 | 15.79% | 1.179% |
| 71 | 11.151 | 3085 | 3103 | 3115 | rBV | 307169 | 467027 | 60.74% | 4.538% |

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Sample : J5084-03 10X
Misc : 5.82g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** B-9(11.5-12)

Integration Parameters: RTEINT.P
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 3 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.289 | 3133 | 3146 | 3152 | rBV5 | 9117 | 19649 | 2.56% | 0.191% |
| 73 | 11.327 | 3152 | 3158 | 3167 | rVB | 9614 | 15143 | 1.97% | 0.147% |
| 74 | 11.485 | 3196 | 3207 | 3219 | rBV | 420057 | 653540 | 85.00% | 6.350% |
| 75 | 11.572 | 3225 | 3234 | 3243 | rBV | 80777 | 115180 | 14.98% | 1.119% |
| 76 | 11.771 | 3284 | 3296 | 3304 | rBV3 | 57593 | 123763 | 16.10% | 1.202% |
| 77 | 11.810 | 3304 | 3308 | 3316 | rVV | 36623 | 47162 | 6.13% | 0.458% |
| 78 | 11.874 | 3316 | 3328 | 3345 | rVB4 | 74229 | 165212 | 21.49% | 1.605% |
| 79 | 11.980 | 3348 | 3361 | 3367 | rBV8 | 8119 | 13615 | 1.77% | 0.132% |
| 80 | 12.025 | 3367 | 3375 | 3379 | rBV3 | 13113 | 17978 | 2.34% | 0.175% |
| 81 | 12.060 | 3379 | 3386 | 3403 | rVB3 | 36510 | 62113 | 8.08% | 0.603% |
| 82 | 12.147 | 3403 | 3413 | 3418 | rBV | 36840 | 58124 | 7.56% | 0.565% |
| 83 | 12.176 | 3418 | 3422 | 3432 | rVB2 | 31712 | 42092 | 5.47% | 0.409% |
| 84 | 12.250 | 3432 | 3445 | 3454 | rBV | 68798 | 109188 | 14.20% | 1.061% |
| 85 | 12.356 | 3468 | 3478 | 3508 | rVB3 | 23470 | 66073 | 8.59% | 0.642% |
| 86 | 12.552 | 3528 | 3539 | 3549 | rVB | 13315 | 21579 | 2.81% | 0.210% |
| 87 | 12.652 | 3549 | 3570 | 3578 | rBV | 32104 | 56912 | 7.40% | 0.553% |
| 88 | 12.704 | 3578 | 3586 | 3596 | rBV | 42149 | 59740 | 7.77% | 0.580% |
| 89 | 12.787 | 3605 | 3612 | 3617 | rBV2 | 9764 | 14411 | 1.87% | 0.140% |
| 90 | 12.964 | 3659 | 3667 | 3681 | rVB2 | 35921 | 55567 | 7.23% | 0.540% |
| 91 | 13.032 | 3681 | 3688 | 3697 | rBV4 | 8125 | 12374 | 1.61% | 0.120% |
| 92 | 13.125 | 3708 | 3717 | 3732 | rVV2 | 59088 | 107256 | 13.95% | 1.042% |
| 93 | 13.289 | 3760 | 3768 | 3780 | rVB6 | 8397 | 13860 | 1.80% | 0.135% |
| 94 | 13.456 | 3812 | 3820 | 3828 | rBV3 | 8667 | 13170 | 1.71% | 0.128% |
| 95 | 13.507 | 3828 | 3836 | 3844 | rBV4 | 14646 | 23757 | 3.09% | 0.231% |
| 96 | 13.742 | 3899 | 3909 | 3922 | rBV | 32663 | 52645 | 6.85% | 0.512% |
| 97 | 14.150 | 4023 | 4036 | 4049 | rVB4 | 8248 | 15571 | 2.03% | 0.151% |
| 98 | 14.343 | 4085 | 4096 | 4105 | rBV6 | 5838 | 12408 | 1.61% | 0.121% |
| 99 | 14.880 | 4252 | 4263 | 4280 | rBV | 18074 | 33493 | 4.36% | 0.325% |
| 100 | 15.064 | 4310 | 4320 | 4336 | rBV2 | 9840 | 17498 | 2.28% | 0.170% |

Sum of corrected areas: 10292267

LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU100418\
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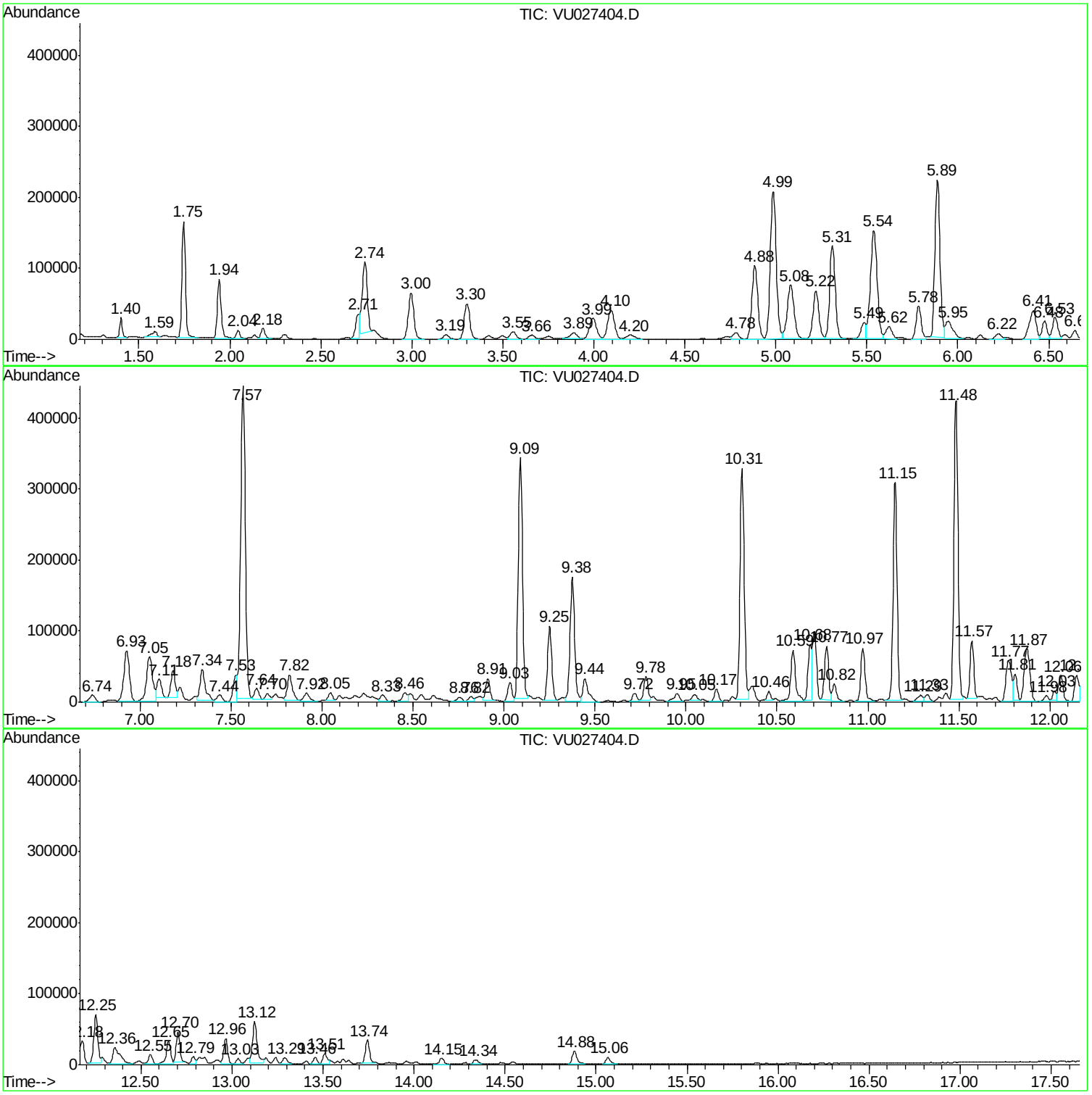
Sample : J5084-03 10X
Misc : 5.82g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 14 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
B-9(11.5-12)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260

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



Library Search Compound Report

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Data File : VU027404.D
Acq On : 04 Oct 2018 13:32
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Sample : J5084-03 10X
Misc : 5.82g/5mL/100uL/5.0mL/MSVOA_U/MEOH
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**Instrument :** MSVOA_U
**ClientSampleId :** B-9(11.5-12)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260

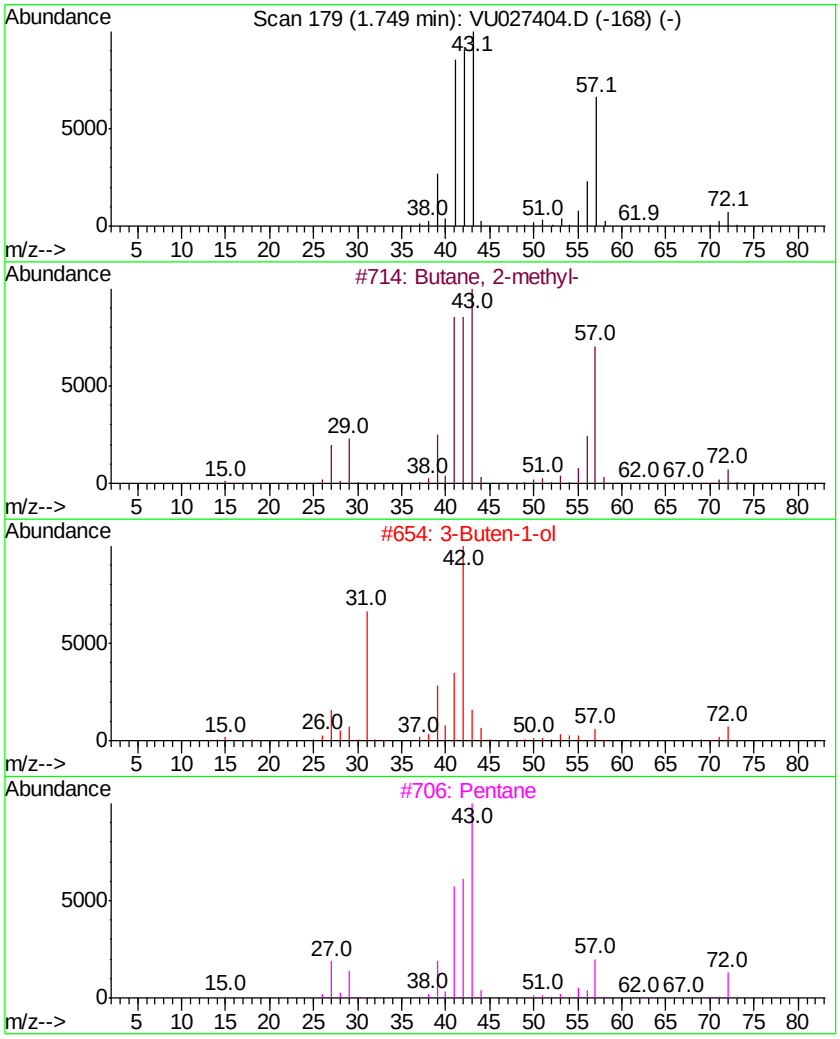
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

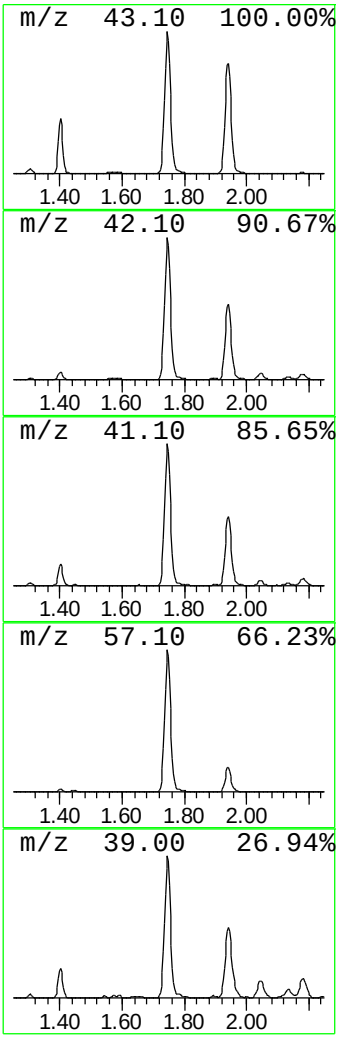
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.75 | 23.54 ug/l | 222310 | Pentafluorobenzene | 4.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 94 |
| 2 | 3-Buten-1-ol | 72 | C4H8O | 000627-27-0 | 47 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 36 |
| 4 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 9 |
| 5 | 1-Butene | 56 | C4H8 | 000106-98-9 | 9 |



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**ClientSampleId :** B-9(11.5-12)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260

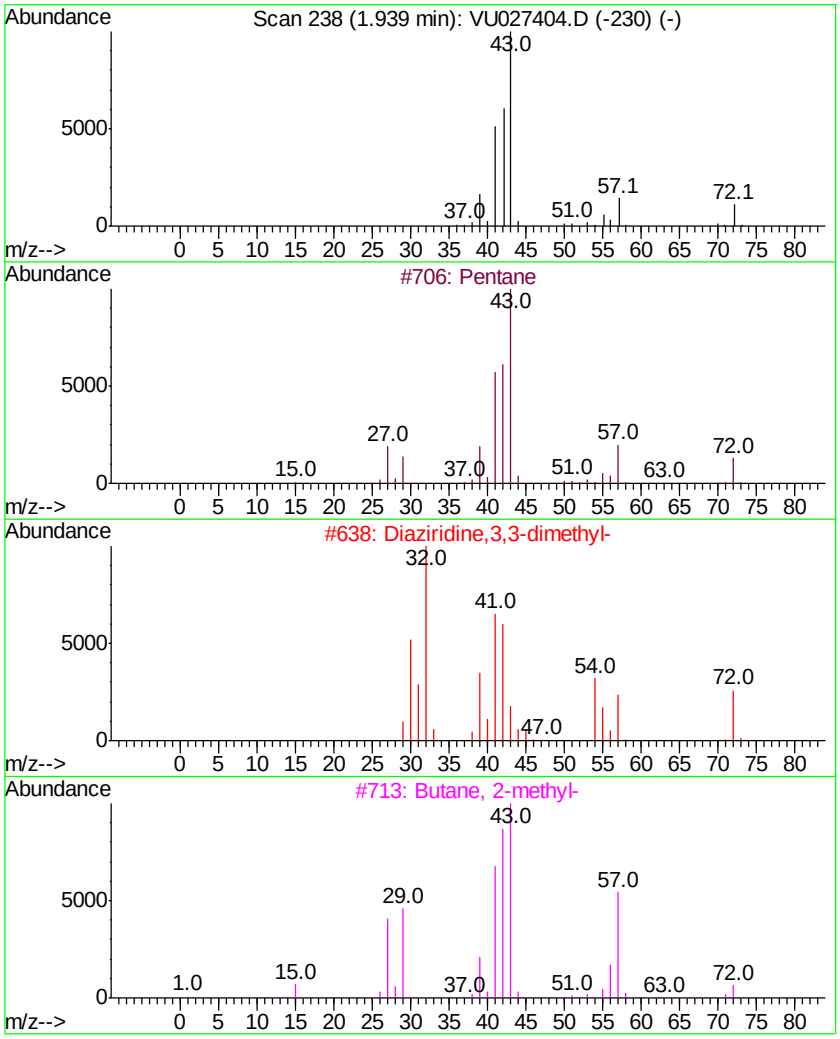
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

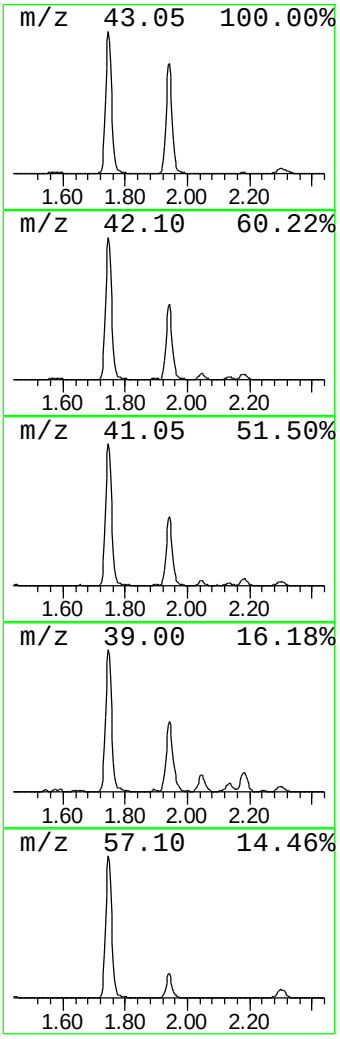
**********

Peak Number 2 Pentane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.94 | 13.12 ug/l | 123856 | Pentafluorobenzene | 4.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 91 |
| 2 | Diaziridine,3,3-dimethyl- | 72 | C3H8N2 | 004901-76-2 | 38 |
| 3 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 38 |
| 4 | Oxirane, ethyl- | 72 | C4H8O | 000106-88-7 | 33 |
| 5 | 1-Pentanol | 88 | C5H12O | 000071-41-0 | 9 |



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ALS Vial : 14 Sample Multiplier: 1

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**ClientSampleId :** B-9(11.5-12)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260

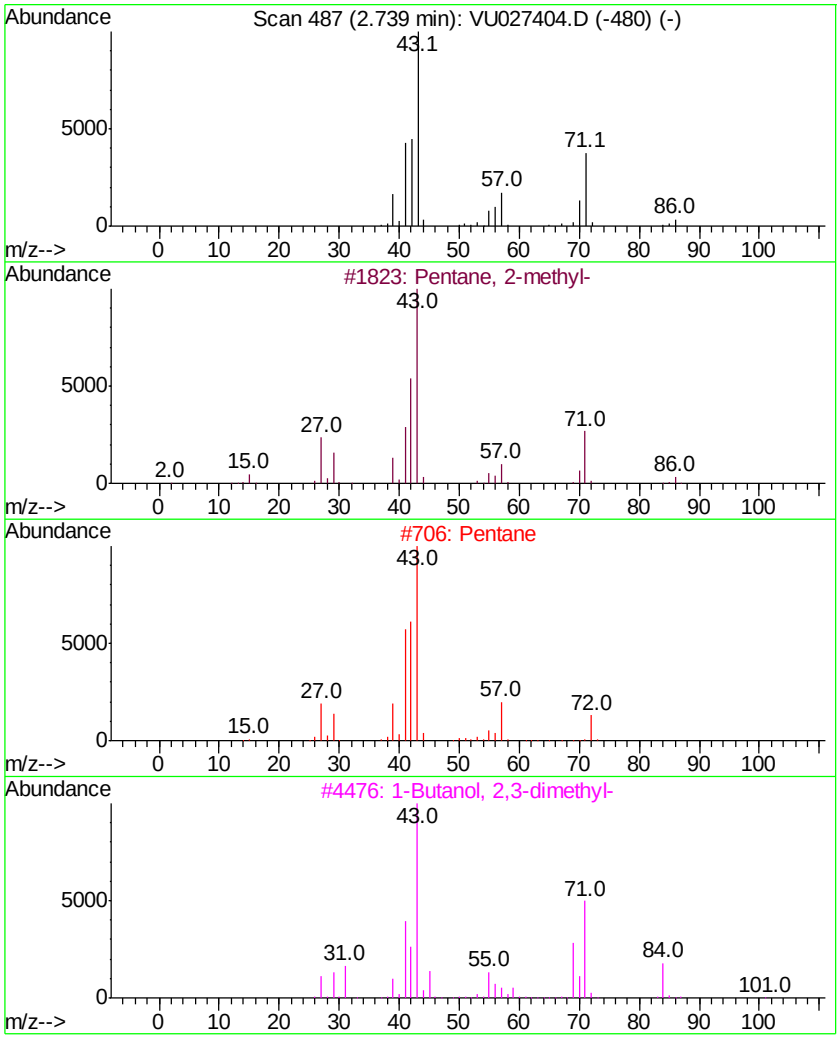
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

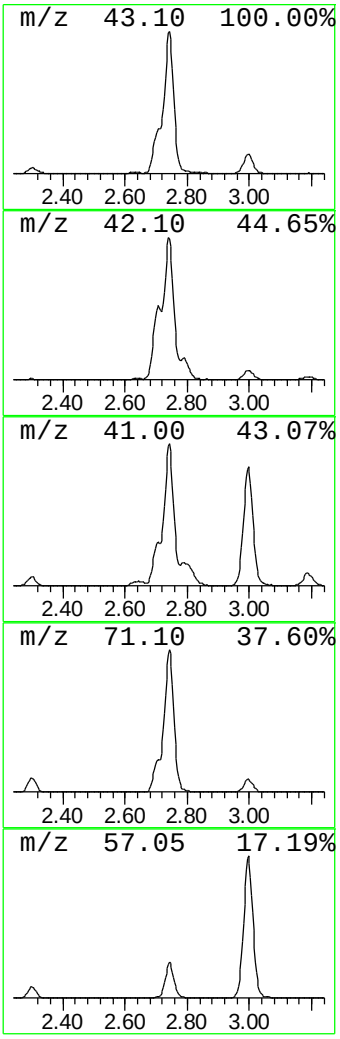
**********

Peak Number 3 Pentane, 2-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.74 | 19.58 ug/l | 184911 | Pentafluorobenzene | 4.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 91 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 46 |
| 3 | 1-Butanol, 2,3-dimethyl- | 102 | C6H14O | 019550-30-2 | 40 |
| 4 | Butane, 2,3-dimethyl- | 86 | C6H14 | 000079-29-8 | 38 |
| 5 | Hexane, 2,3-dimethyl- | 114 | C8H18 | 000584-94-1 | 38 |



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ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** B-9(11.5-12)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260

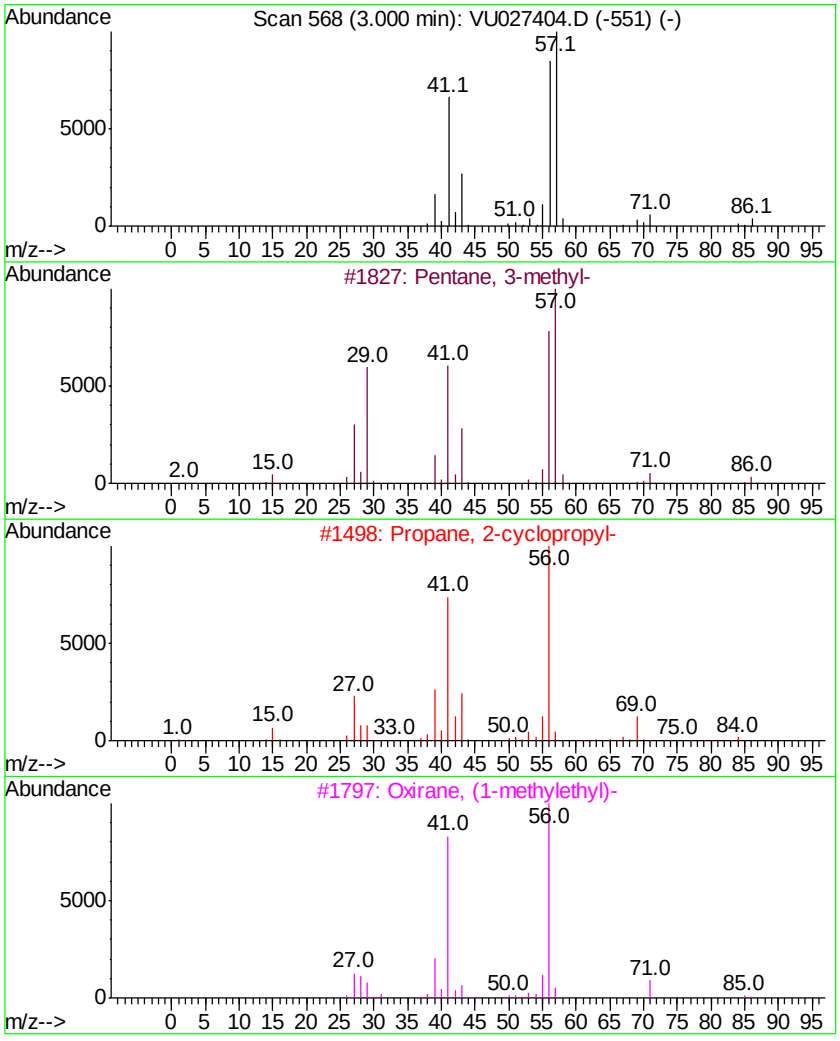
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

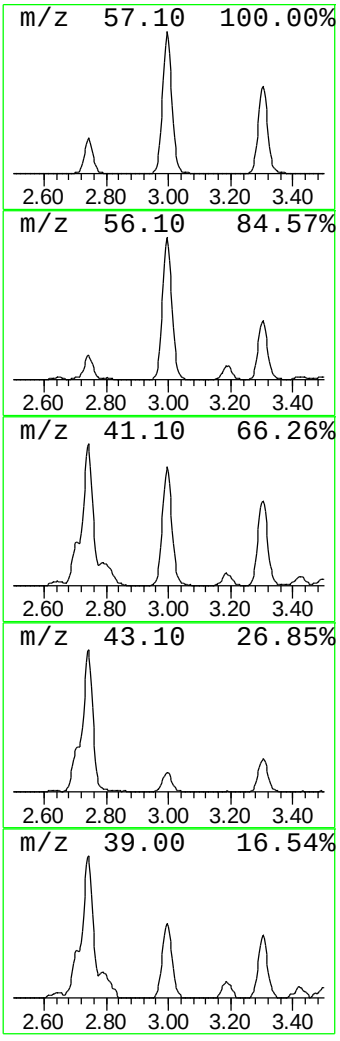
**********

Peak Number 4 Pentane, 3-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.00 | 14.58 ug/l | 137650 | Pentafluorobenzene | 4.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 91 |
| 2 | Propane, 2-cyclopropyl- | 84 | C6H12 | 003638-35-5 | 53 |
| 3 | Oxirane, (1-methylethyl)- | 86 | C5H10O | 001438-14-8 | 45 |
| 4 | 3,4-Dimethyldihydrofuran-2,5-dione | 128 | C6H8O3 | 007475-92-5 | 42 |
| 5 | Sulphuric acid dibutyl ester | 210 | C8H18O4S | 000625-22-9 | 40 |



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Data File : VU027404.D
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Operator : MD/SY
Sample : J5084-03 10X
Misc : 5.82g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** B-9(11.5-12)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260

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

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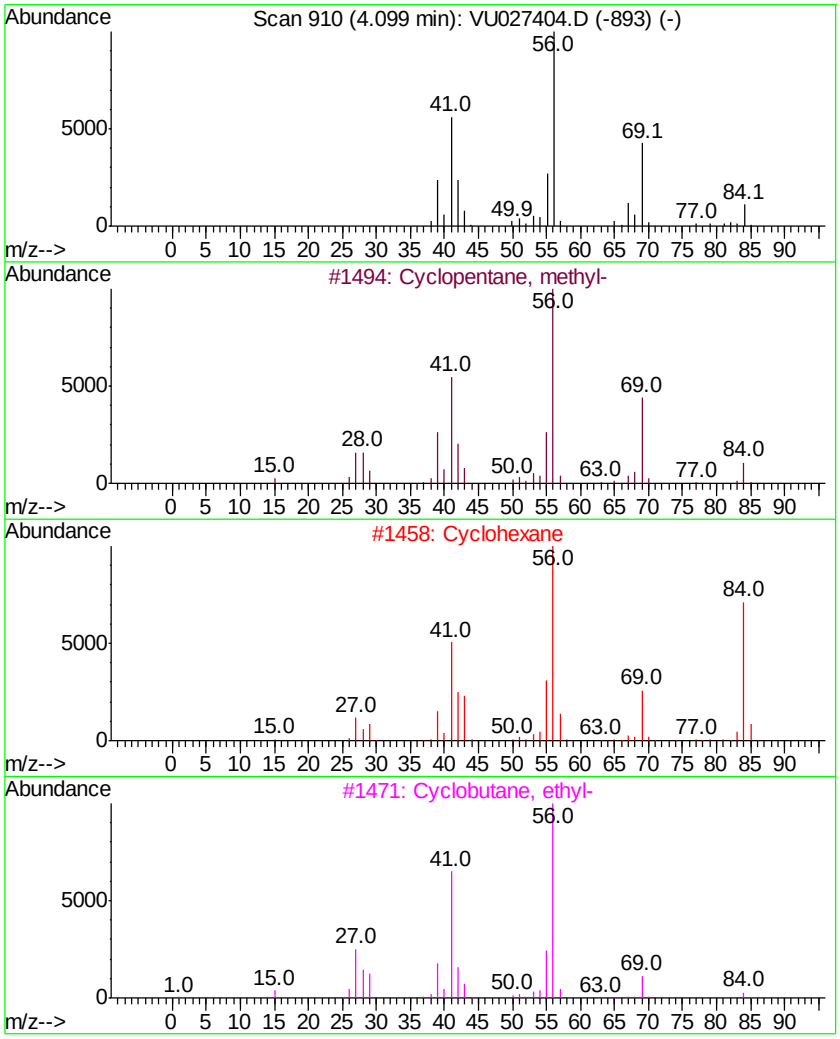
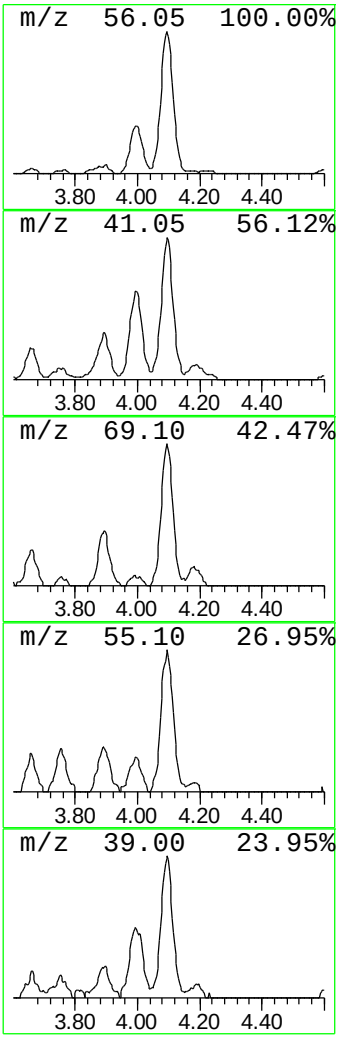
Peak Number 5 Cyclopentane, methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.10 | 11.38 ug/l | 107494 | Pentafluorobenzene | 4.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 90 |
| 2 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 78 |
| 3 | Cyclobutane, ethyl- | 84 | C6H12 | 004806-61-5 | 64 |
| 4 | Cyclopropane, propyl- | 84 | C6H12 | 002415-72-7 | 64 |
| 5 | 1-Pentene, 2-methyl- | 84 | C6H12 | 000763-29-1 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100418\
Data File : VU027404.D
Acq On : 04 Oct 2018 13:32
Operator : MD/SY
Sample : J5084-03 10X
Misc : 5.82g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** B-9(11.5-12)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260

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

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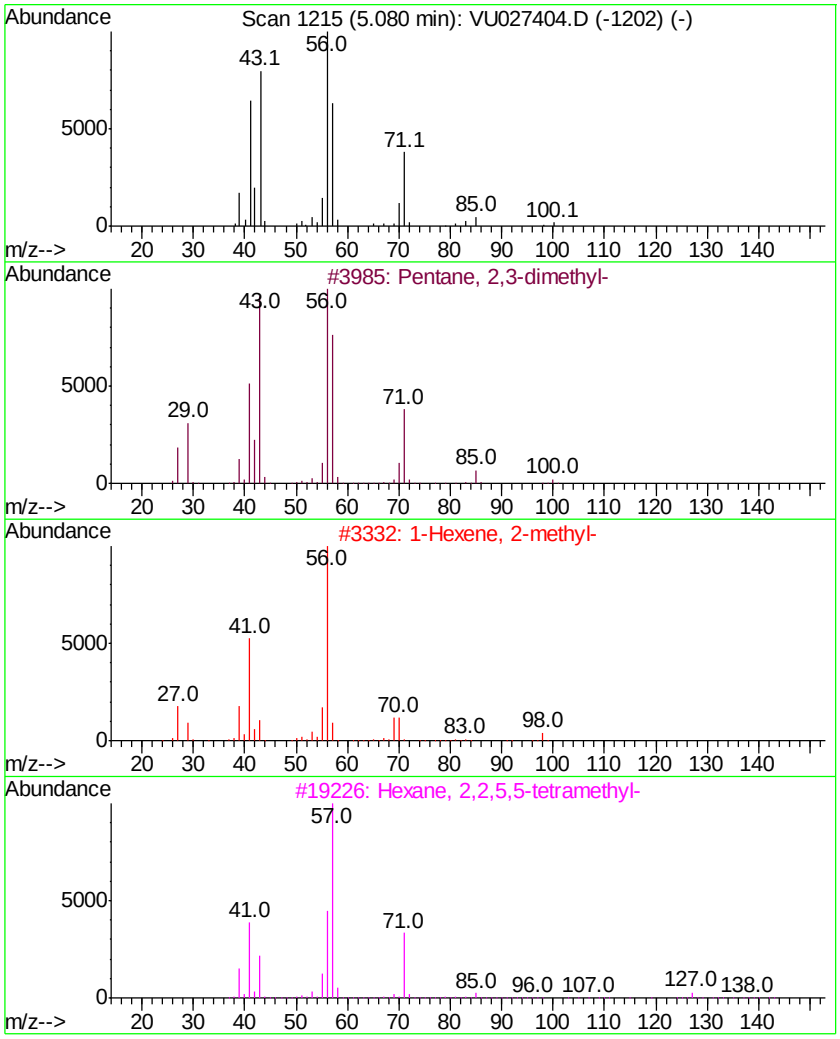
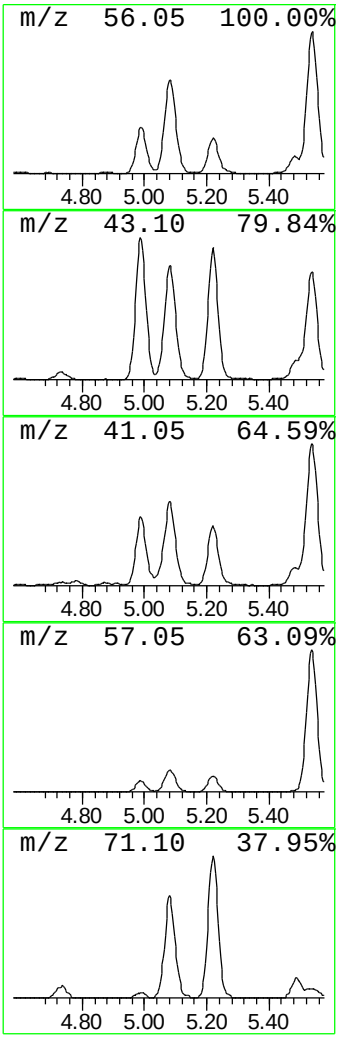
Peak Number 6 Pentane, 2,3-dimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.08 | 21.22 ug/l | 200396 | Pentafluorobenzene | 4.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3-dimethyl- | 100 | C7H16 | 000565-59-3 | 91 |
| 2 | 1-Hexene, 2-methyl- | 98 | C7H14 | 006094-02-6 | 47 |
| 3 | Hexane, 2,2,5,5-tetramethyl- | 142 | C10H22 | 001071-81-4 | 45 |
| 4 | Hexane, 2,2,4-trimethyl- | 128 | C9H20 | 016747-26-5 | 42 |
| 5 | Aziridine, 2-methyl- | 57 | C3H7N | 000075-55-8 | 38 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100418\
Data File : VU027404.D
Acq On : 04 Oct 2018 13:32
Operator : MD/SY
Sample : J5084-03 10X
Misc : 5.82g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** B-9(11.5-12)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260

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

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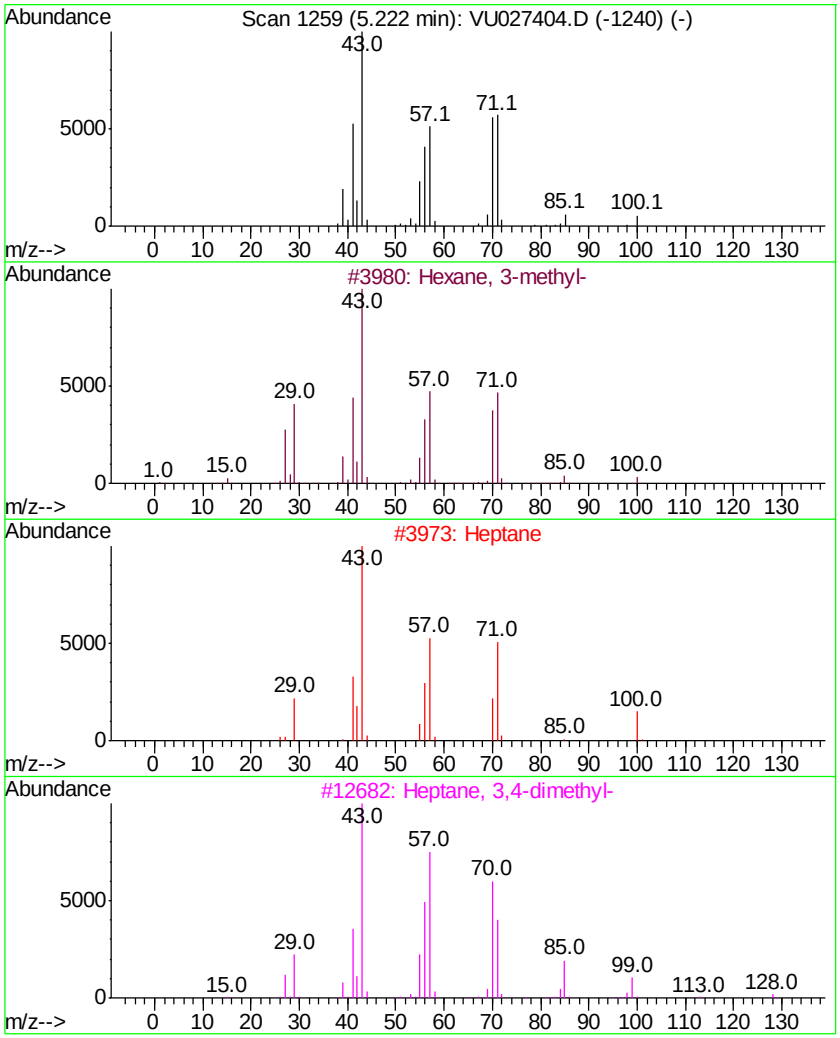
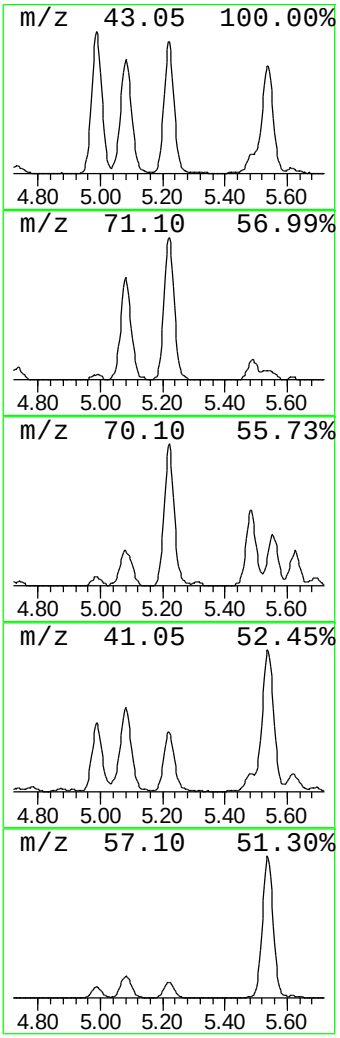
Peak Number 7 Hexane, 3-methyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.22 | 16.29 ug/l | 153828 | Pentafluorobenzene | 4.98 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 91 |
| 2 | Heptane | 100 | C7H16 | 000142-82-5 | 80 |
| 3 | Heptane, 3,4-dimethyl- | 128 | C9H20 | 000922-28-1 | 64 |
| 4 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 53 |
| 5 | Heptane, 3,3,4-trimethyl- | 142 | C10H22 | 020278-87-9 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100418\
Data File : VU027404.D
Acq On : 04 Oct 2018 13:32
Operator : MD/SY
Sample : J5084-03 10X
Misc : 5.82g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** B-9(11.5-12)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260

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

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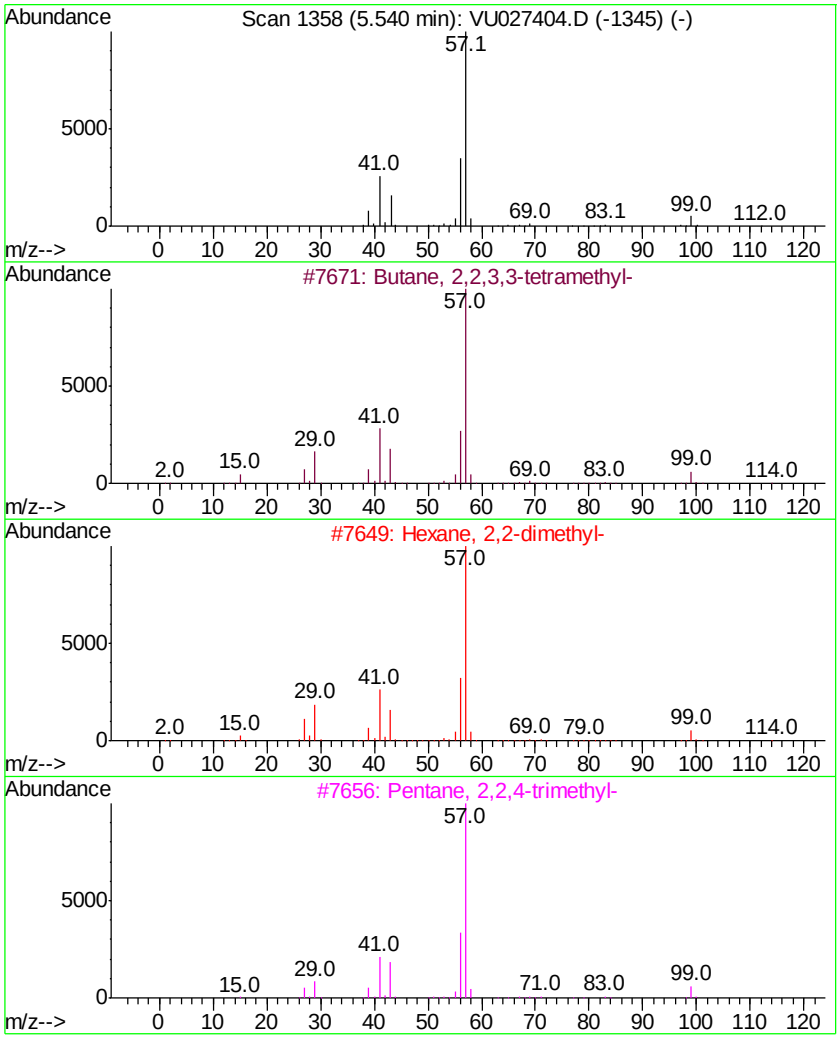
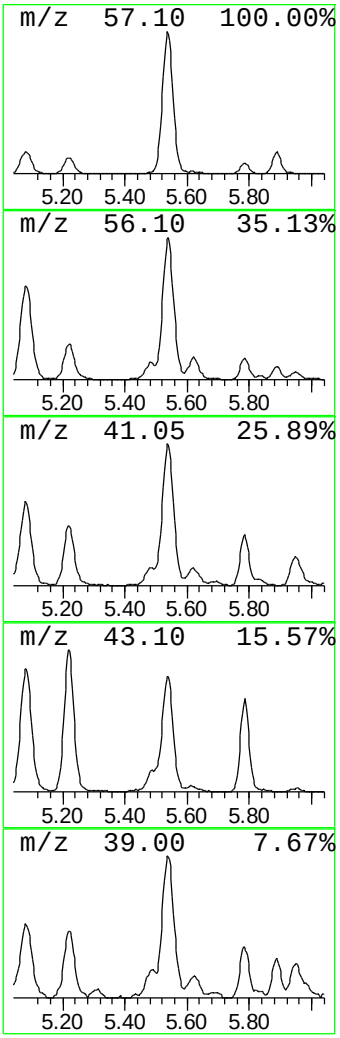
Peak Number 8 Butane, 2,2,3,3-tetramethyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.54 | 45.49 ug/l | 389887 | 1,4-Difluorobenzene | 5.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18 | 000594-82-1 | 83 |
| 2 | Hexane, 2,2-dimethyl- | 114 | C8H18 | 000590-73-8 | 83 |
| 3 | Pentane, 2,2,4-trimethyl- | 114 | C8H18 | 000540-84-1 | 78 |
| 4 | Pentane, 2,2,4,4-tetramethyl- | 128 | C9H20 | 001070-87-7 | 72 |
| 5 | Hexane, 2,2,5-trimethyl- | 128 | C9H20 | 003522-94-9 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100418\
Data File : VU027404.D
Acq On : 04 Oct 2018 13:32
Operator : MD/SY
Sample : J5084-03 10X
Misc : 5.82g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** B-9(11.5-12)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260

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

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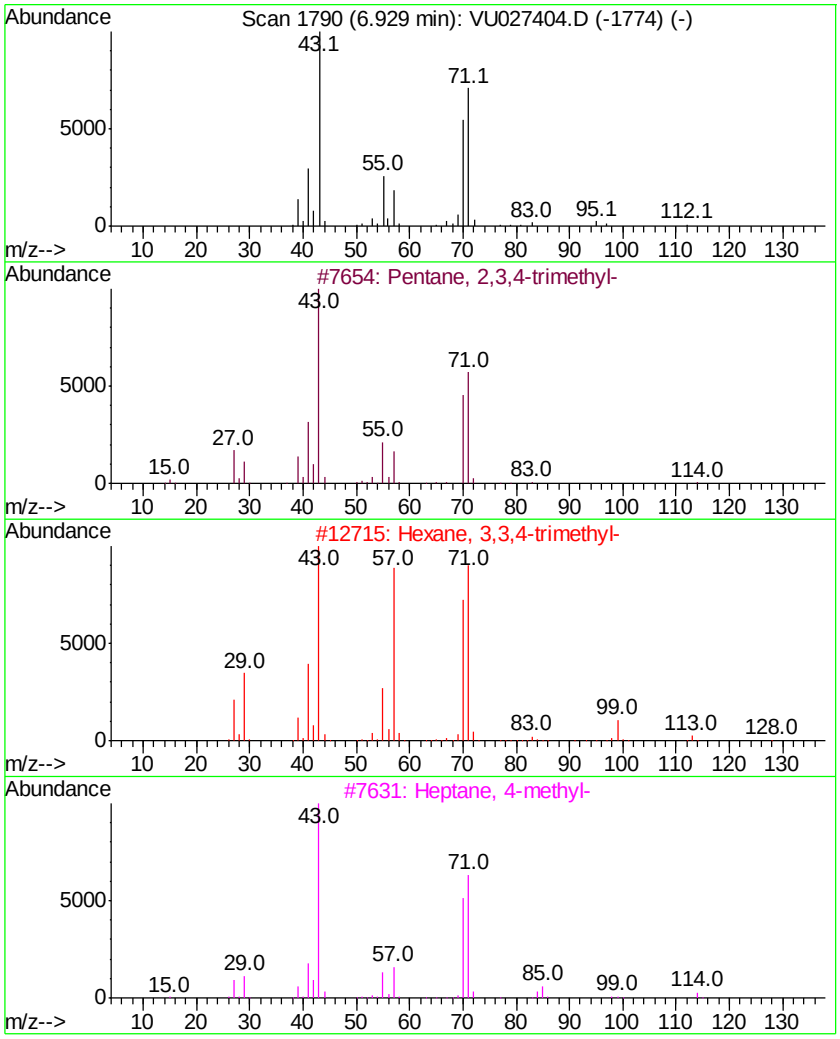
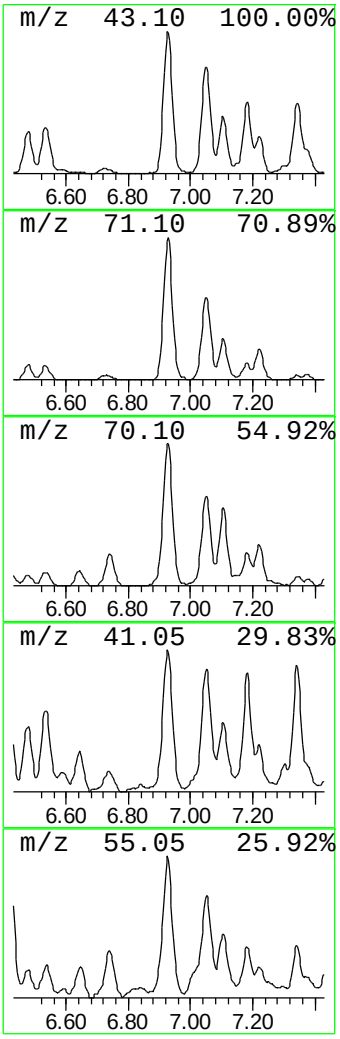
Peak Number 9 Pentane, 2,3,4-trimethyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.93 | 17.34 ug/l | 148664 | 1,4-Difluorobenzene | 5.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 78 |
| 2 | Hexane, 3,3,4-trimethyl- | 128 | C9H20 | 016747-31-2 | 72 |
| 3 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 64 |
| 4 | Hexane, 2,3-dimethyl- | 114 | C8H18 | 000584-94-1 | 64 |
| 5 | Ethanedioic acid, bis(3-methylbu... | 230 | C12H22O4 | 002051-00-5 | 59 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100418\
Data File : VU027404.D
Acq On : 04 Oct 2018 13:32
Operator : MD/SY
Sample : J5084-03 10X
Misc : 5.82g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** B-9(11.5-12)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260

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

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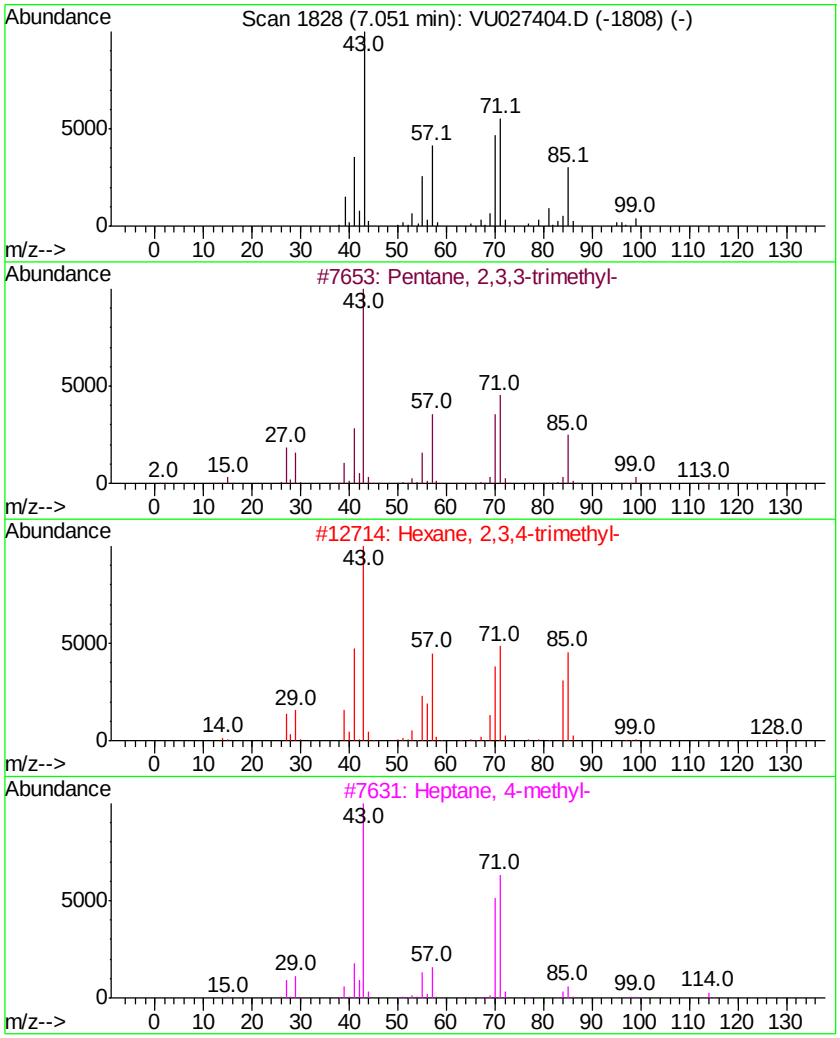
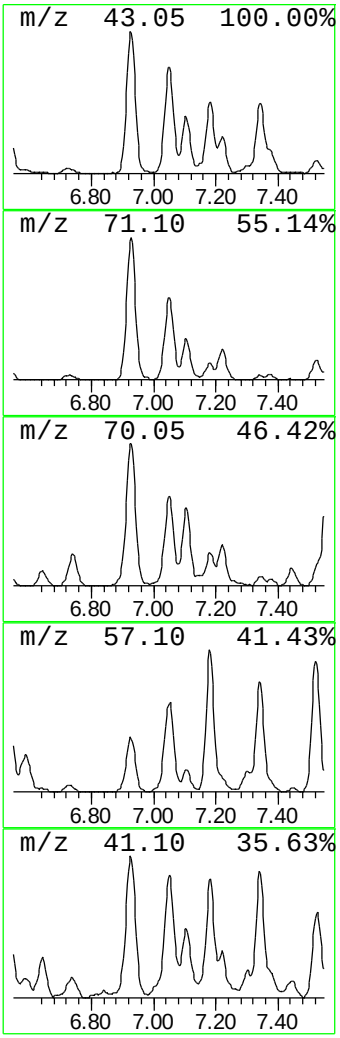
Peak Number 10 Pentane, 2,3,3-trimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.05 | 17.42 ug/l | 149339 | 1,4-Difluorobenzene | 5.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,3-trimethyl- | 114 | C8H18 | 000560-21-4 | 83 |
| 2 | Hexane, 2,3,4-trimethyl- | 128 | C9H20 | 000921-47-1 | 64 |
| 3 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 64 |
| 4 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 59 |
| 5 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 59 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU100418\
Data File : VU027404.D
Acq On : 04 Oct 2018 13:32
Operator : MD/SY
Sample : J5084-03 10X
Misc : 5.82g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 14 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** B-9(11.5-12)

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U100118W.M
Quant Title : SW846 8260

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

| | | | | | Internal Standard | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| Butane, 2-methyl- | 1.75 | 23.5 | ug/l | 222310 | 1 | 4.98 | 472116 | 50.0 |
| Pentane | 1.94 | 13.1 | ug/l | 123856 | 1 | 4.98 | 472116 | 50.0 |
| Pentane, 2-methyl- | 2.74 | 19.6 | ug/l | 184911 | 1 | 4.98 | 472116 | 50.0 |
| Pentane, 3-methyl- | 3.00 | 14.6 | ug/l | 137650 | 1 | 4.98 | 472116 | 50.0 |
| Cyclopentane, met... | 4.10 | 11.4 | ug/l | 107494 | 1 | 4.98 | 472116 | 50.0 |
| Pentane, 2,3-dime... | 5.08 | 21.2 | ug/l | 200396 | 1 | 4.98 | 472116 | 50.0 |
| Hexane, 3-methyl- | 5.22 | 16.3 | ug/l | 153828 | 1 | 4.98 | 472116 | 50.0 |
| Butane, 2,2,3,3-t... | 5.54 | 45.5 | ug/l | 389887 | 2 | 5.89 | 428578 | 50.0 |
| Pentane, 2,3,4-tr... | 6.93 | 17.3 | ug/l | 148664 | 2 | 5.89 | 428578 | 50.0 |
| Pentane, 2,3,3-tr... | 7.05 | 17.4 | ug/l | 149339 | 2 | 5.89 | 428578 | 50.0 |