LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

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\82U082919W.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 | 1.752 | 197 | 206 | 218 | rVB | 88652 | 116466 | 2.22% | 0.241% |
| 2 | 2.296 | 363 | 375 | 391 | rVB4 | 41117 | 94149 | 1.79% | 0.195% |
| 3 | 2.431 | 406 | 417 | 437 | rBV | 67235 | 129838 | 2.47% | 0.269% |
| 4 | 2.694 | 482 | 499 | 516 | rBV | 154466 | 368942 | 7.03% | 0.765% |
| 5 | 2.807 | 516 | 534 | 567 | rVB | 570550 | 1365795 | 26.02% | 2.832% |
| 6 | 2.984 | 574 | 589 | 614 | rVB | 409563 | 881148 | 16.79% | 1.827% |
| 7 | 3.553 | 751 | 766 | 783 | rBV3 | 32203 | 82293 | 1.57% | 0.171% |
| 8 | 3.974 | 883 | 897 | 909 | rBV2 | 21507 | 54152 | 1.03% | 0.112% |
| 9 | 4.074 | 911 | 928 | 946 | rVB4 | 93250 | 259996 | 4.95% | 0.539% |
| 10 | 4.862 | 1156 | 1173 | 1190 | rBV | 325406 | 755794 | 14.40% | 1.567% |
| 11 | 4.964 | 1190 | 1205 | 1223 | rVV | 604605 | 1419230 | 27.04% | 2.943% |
| 12 | 5.058 | 1224 | 1234 | 1257 | rVB3 | 60315 | 166474 | 3.17% | 0.345% |
| 13 | 5.289 | 1294 | 1306 | 1319 | rBV | 339334 | 704558 | 13.42% | 1.461% |
| 14 | 5.370 | 1319 | 1331 | 1342 | rVV | 546730 | 1176430 | 22.41% | 2.439% |
| 15 | 5.434 | 1342 | 1351 | 1365 | rVV | 282186 | 689493 | 13.13% | 1.430% |
| 16 | 5.514 | 1366 | 1376 | 1393 | rVV | 177330 | 469801 | 8.95% | 0.974% |
| 17 | 5.601 | 1395 | 1403 | 1421 | rVB3 | 36856 | 84684 | 1.61% | 0.176% |
| 18 | 5.865 | 1471 | 1485 | 1501 | rBV | 798685 | 1625561 | 30.97% | 3.371% |
| 19 | 6.392 | 1629 | 1649 | 1662 | rBV4 | 80641 | 224702 | 4.28% | 0.466% |
| 20 | 6.816 | 1762 | 1781 | 1796 | rBV8 | 26024 | 85086 | 1.62% | 0.176% |
| 21 | 6.906 | 1796 | 1809 | 1827 | rVB | 144701 | 290677 | 5.54% | 0.603% |
| 22 | 7.029 | 1831 | 1847 | 1863 | rBV3 | 226849 | 524049 | 9.98% | 1.087% |
| 23 | 7.279 | 1916 | 1925 | 1936 | rVB2 | 65532 | 112894 | 2.15% | 0.234% |
| 24 | 7.347 | 1936 | 1946 | 1963 | rBV | 171880 | 335560 | 6.39% | 0.696% |
| 25 | 7.546 | 1986 | 2008 | 2022 | rBV | 1310674 | 2386135 | 45.46% | 4.948% |
| 26 | 7.620 | 2023 | 2031 | 2044 | rVV | 125965 | 245313 | 4.67% | 0.509% |
| 27 | 7.697 | 2044 | 2055 | 2079 | rVB | 208217 | 407891 | 7.77% | 0.846% |
| 28 | 8.353 | 2238 | 2259 | 2272 | rBV3 | 33109 | 87566 | 1.67% | 0.182% |
| 29 | 8.482 | 2292 | 2299 | 2310 | rVB5 | 29623 | 53364 | 1.02% | 0.111% |
| 30 | 9.006 | 2447 | 2462 | 2471 | rBV2 | 101246 | 202659 | 3.86% | 0.420% |
| 31 | 9.070 | 2471 | 2482 | 2500 | rVV | 1201759 | 2122673 | 40.44% | 4.401% |
| 32 | 9.151 | 2500 | 2507 | 2520 | rVV | 172890 | 321476 | 6.12% | 0.667% |
| 33 | 9.231 | 2520 | 2532 | 2558 | rVV | 2554919 | 4193151 | 79.88% | 8.694% |
| 34 | 9.357 | 2558 | 2571 | 2602 | rVB | 3160766 | 5249429 | 100.00% | 10.885% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

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\82U082919W.M
Title : SW846 8260

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.758 | 2684 | 2696 | 2727 | rVB | 1111181 | 1797631 | 34.24% | 3.727% |
| 36 | 9.932 | 2736 | 2750 | 2764 | rBV4 | 41170 | 112987 | 2.15% | 0.234% |
| 37 | 10.148 | 2807 | 2817 | 2828 | rBV | 312668 | 482256 | 9.19% | 1.000% |
| 38 | 10.289 | 2849 | 2861 | 2882 | rBV | 1011749 | 1680191 | 32.01% | 3.484% |
| 39 | 10.527 | 2924 | 2935 | 2938 | rBV3 | 43185 | 65228 | 1.24% | 0.135% |
| 40 | 10.569 | 2938 | 2948 | 2965 | rVB | 622588 | 984202 | 18.75% | 2.041% |
| 41 | 10.662 | 2965 | 2977 | 2981 | rBV | 1046446 | 1645768 | 31.35% | 3.412% |
| 42 | 10.752 | 2995 | 3005 | 3029 | rVB | 436986 | 699536 | 13.33% | 1.450% |
| 43 | 10.951 | 3052 | 3067 | 3088 | rBV | 947365 | 1479266 | 28.18% | 3.067% |
| 44 | 11.128 | 3110 | 3122 | 3140 | rBV | 2778974 | 4177263 | 79.58% | 8.662% |
| 45 | 11.270 | 3156 | 3166 | 3172 | rBV | 112831 | 177924 | 3.39% | 0.369% |
| 46 | 11.408 | 3199 | 3209 | 3215 | rBV2 | 67470 | 102978 | 1.96% | 0.214% |
| 47 | 11.463 | 3215 | 3226 | 3242 | rVV | 1416889 | 2221136 | 42.31% | 4.606% |
| 48 | 11.549 | 3242 | 3253 | 3279 | rVB | 660738 | 1044150 | 19.89% | 2.165% |
| 49 | 11.746 | 3301 | 3314 | 3323 | rBV2 | 777540 | 1398521 | 26.64% | 2.900% |
| 50 | 11.848 | 3336 | 3346 | 3370 | rVB6 | 184441 | 403952 | 7.70% | 0.838% |
| 51 | 11.961 | 3371 | 3381 | 3394 | rVV2 | 47668 | 73724 | 1.40% | 0.153% |
| 52 | 12.035 | 3394 | 3404 | 3417 | rVB | 96363 | 152333 | 2.90% | 0.316% |
| 53 | 12.125 | 3422 | 3432 | 3437 | rBV | 137765 | 215538 | 4.11% | 0.447% |
| 54 | 12.157 | 3438 | 3442 | 3452 | rVB | 105747 | 138830 | 2.64% | 0.288% |
| 55 | 12.231 | 3453 | 3465 | 3473 | rBV | 208371 | 339471 | 6.47% | 0.704% |
| 56 | 12.334 | 3486 | 3497 | 3518 | rBV2 | 113660 | 244088 | 4.65% | 0.506% |
| 57 | 12.533 | 3547 | 3559 | 3571 | rVB2 | 60065 | 105413 | 2.01% | 0.219% |
| 58 | 12.630 | 3571 | 3589 | 3597 | rBV | 102641 | 186670 | 3.56% | 0.387% |
| 59 | 12.684 | 3597 | 3606 | 3619 | rVB | 162224 | 259924 | 4.95% | 0.539% |
| 60 | 12.945 | 3679 | 3687 | 3704 | rVB | 83132 | 137497 | 2.62% | 0.285% |
| 61 | 13.102 | 3714 | 3736 | 3754 | rBV2 | 207198 | 373359 | 7.11% | 0.774% |
| 62 | 13.726 | 3918 | 3930 | 3956 | rBV | 116030 | 240548 | 4.58% | 0.499% |

Sum of corrected areas: 48227813

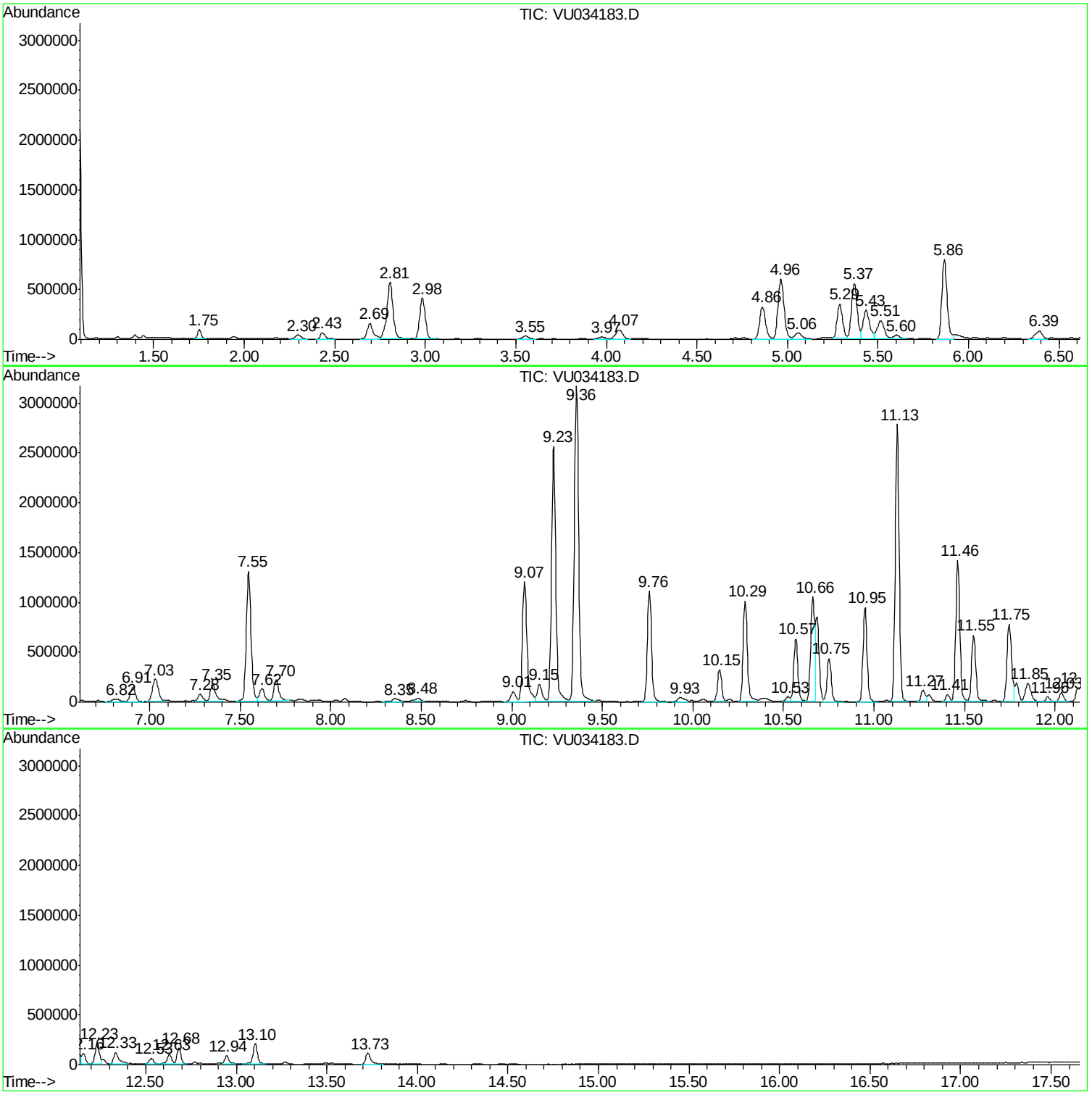
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

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



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

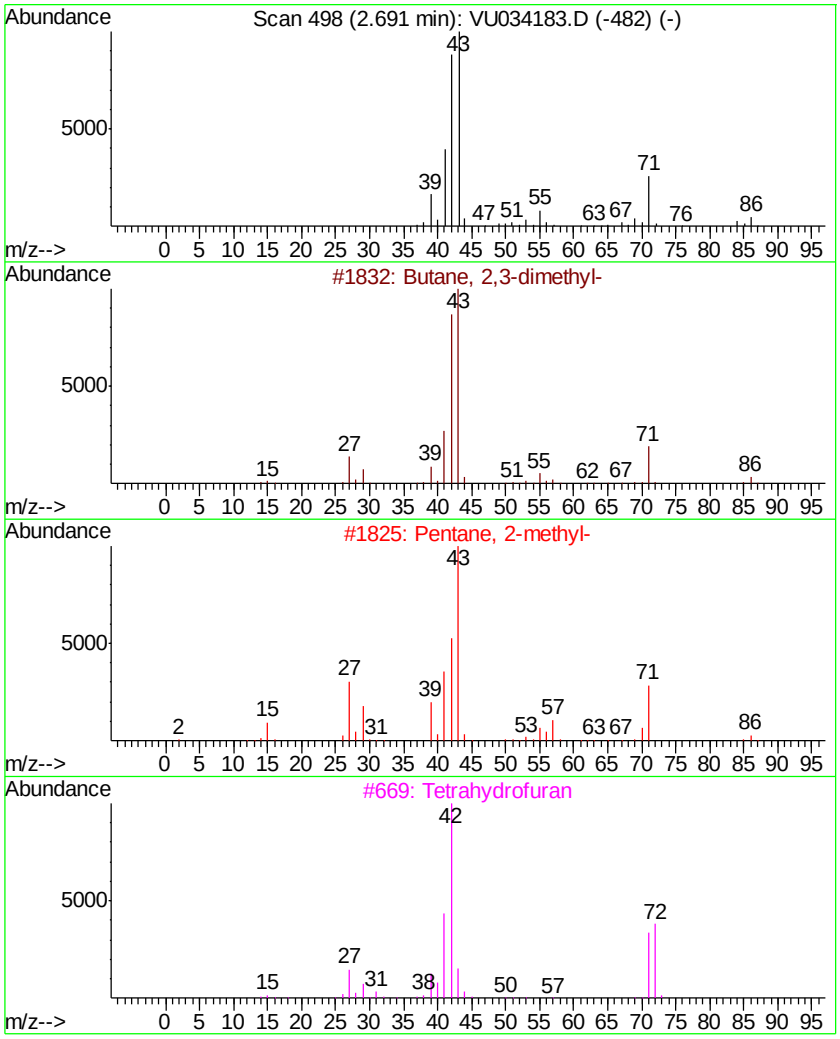
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

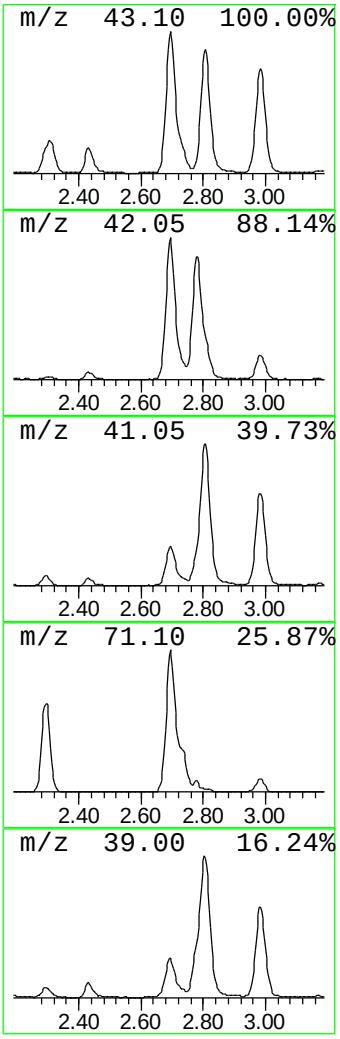
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.69 | 13.00 ug/l | 368942 | Pentafluorobenzene | 4.96 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2,3-dimethyl- | 86 | C6H14 | 000079-29-8 | 86 |
| 2 | Pentane, 2-methyl- | 86 | C6H14 | 000107-83-5 | 47 |
| 3 | Tetrahydrofuran | 72 | C4H8O | 000109-99-9 | 36 |
| 4 | Furan, tetrahydro-2-methyl- | 86 | C5H10O | 000096-47-9 | 9 |
| 5 | Pentane | 72 | C5H12 | 000109-66-0 | 9 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

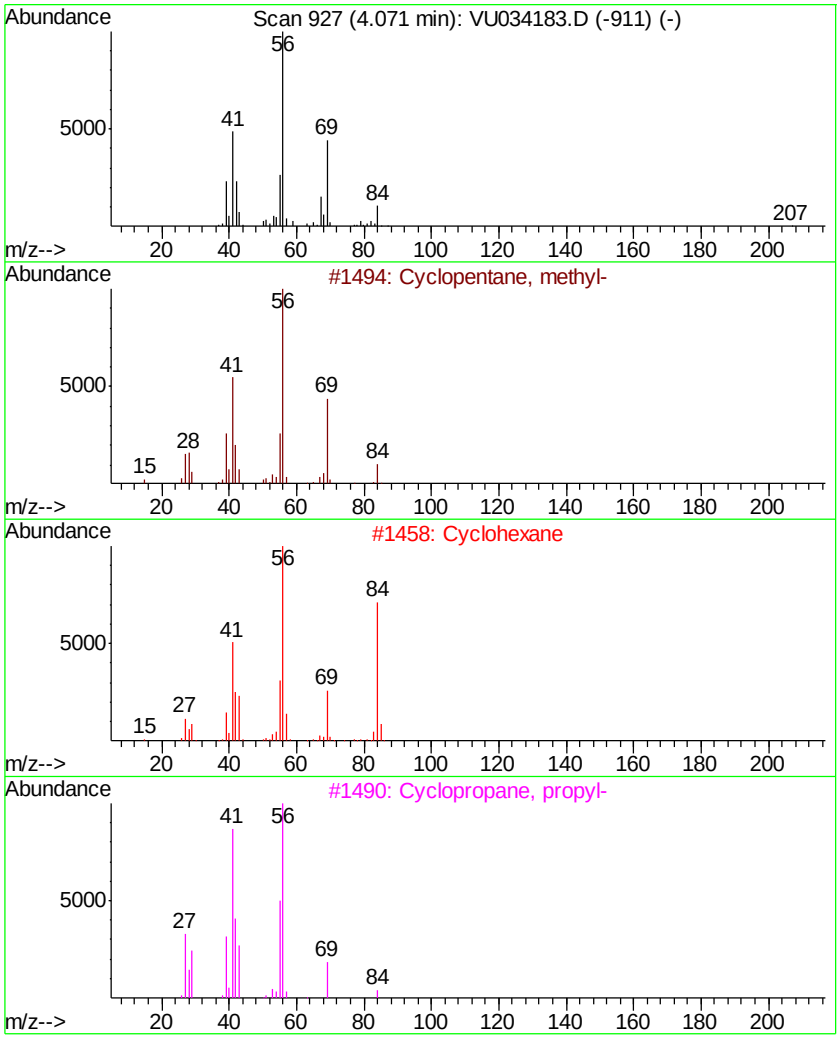
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

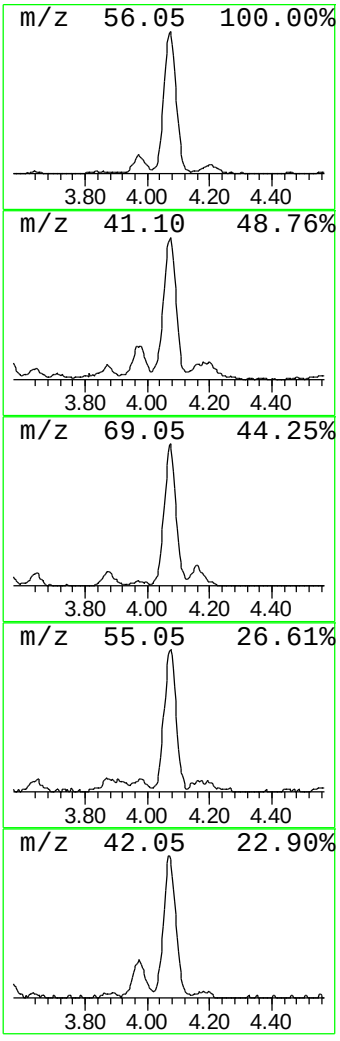
**********

Peak Number 2 Cyclopentane, methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.07 | 9.16 ug/l | 259996 | Pentafluorobenzene | 4.96 |

| 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 | 72 |
| 3 | Cyclopropane, propyl- | 84 | C6H12 | 002415-72-7 | 72 |
| 4 | Cyclobutane, ethyl- | 84 | C6H12 | 004806-61-5 | 64 |
| 5 | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4 | 004076-36-2 | 64 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

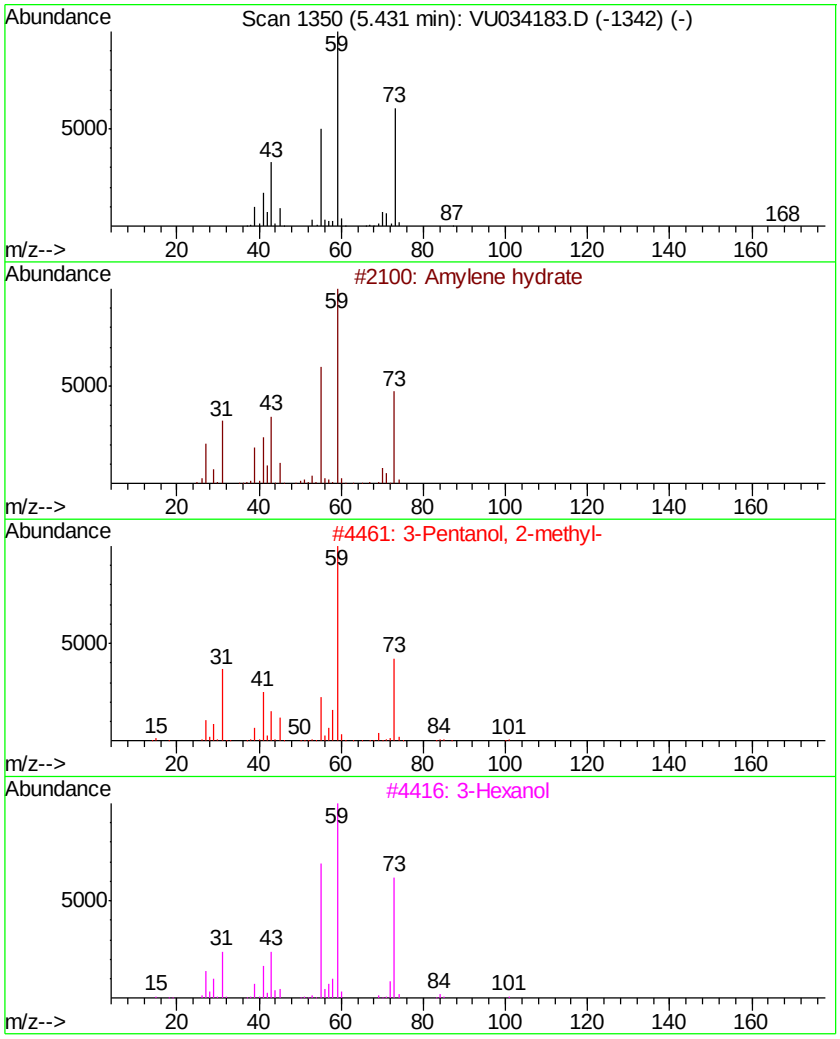
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

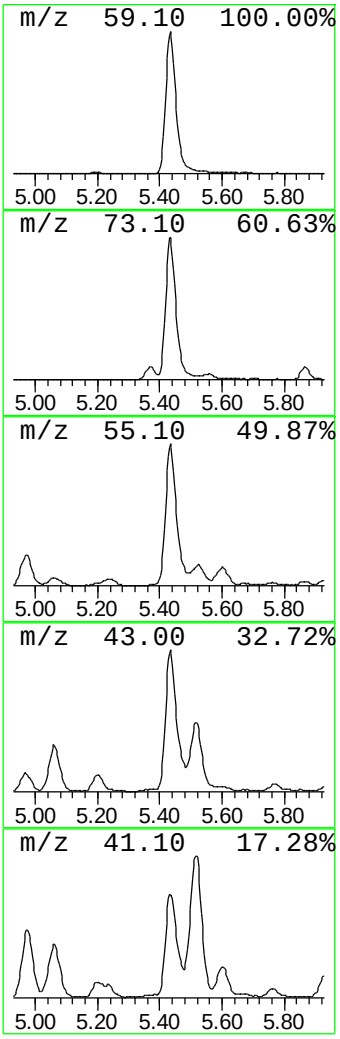
**********

Peak Number 3 Amylene hydrate Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.43 | 21.21 ug/l | 689493 | 1,4-Difluorobenzene | 5.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Amylene hydrate | 88 | C5H12O | 000075-85-4 | 83 |
| 2 | 3-Pentanol, 2-methyl- | 102 | C6H14O | 000565-67-3 | 40 |
| 3 | 3-Hexanol | 102 | C6H14O | 000623-37-0 | 39 |
| 4 | Propanoic acid, 2-hydroxy-2-methyl- | 104 | C4H8O3 | 000594-61-6 | 33 |
| 5 | Silane, trimethyl- | 74 | C3H10Si | 000993-07-7 | 28 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

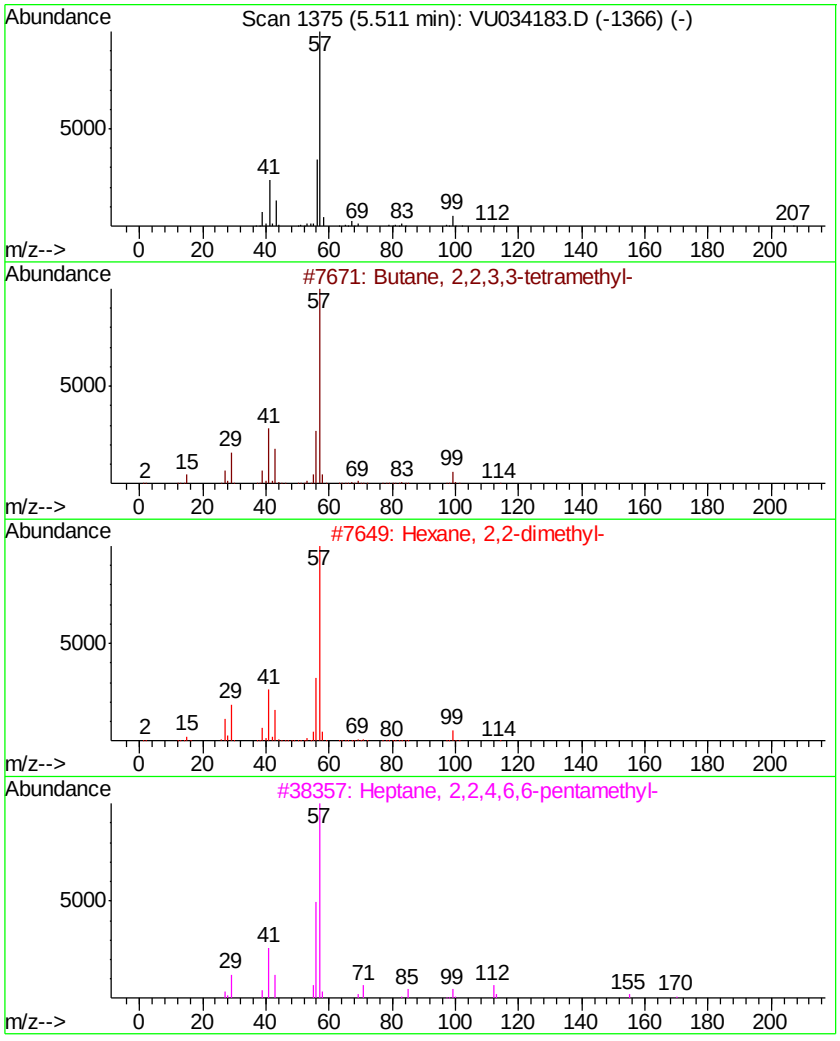
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

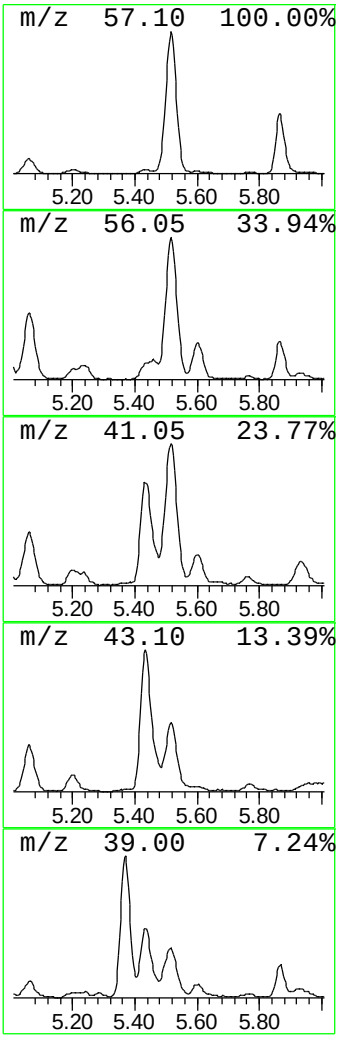
**********

Peak Number 4 Butane, 2,2,3,3-tetramethyl- Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.51 | 14.45 ug/l | 469801 | 1,4-Difluorobenzene | 5.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18 | 000594-82-1 | 72 |
| 2 | Hexane, 2,2-dimethyl- | 114 | C8H18 | 000590-73-8 | 64 |
| 3 | Heptane, 2,2,4,6,6-pentamethyl- | 170 | C12H26 | 013475-82-6 | 56 |
| 4 | Pentane, 2,2,4-trimethyl- | 114 | C8H18 | 000540-84-1 | 56 |
| 5 | Pentane, 2,2,4,4-tetramethyl- | 128 | C9H20 | 001070-87-7 | 42 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

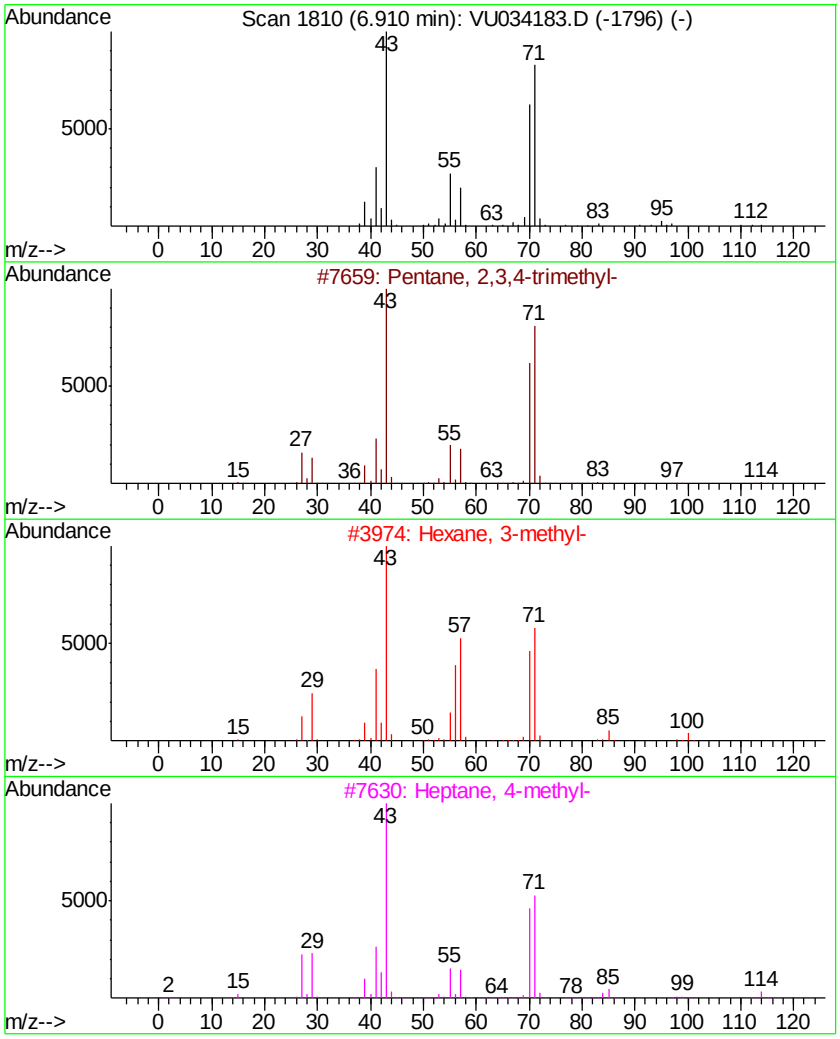
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

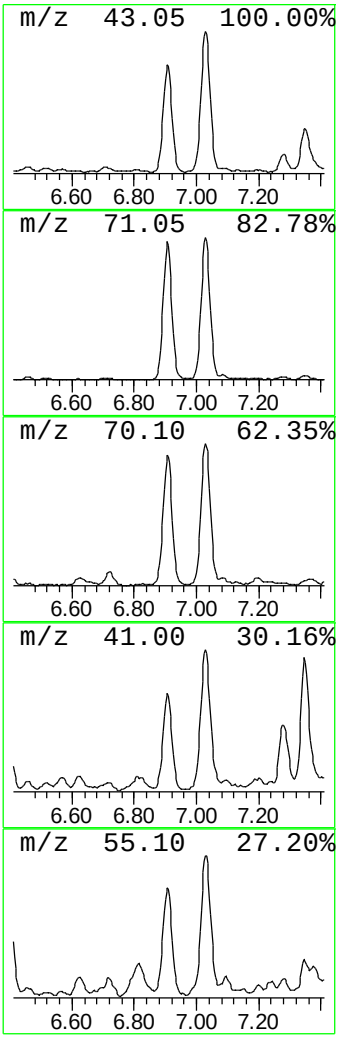
**********

Peak Number 5 Pentane, 2,3,4-trimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.91 | 8.94 ug/l | 290677 | 1,4-Difluorobenzene | 5.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 91 |
| 2 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 83 |
| 3 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 78 |
| 4 | Pentane, 3-ethyl- | 100 | C7H16 | 000617-78-7 | 78 |
| 5 | Hexane, 3,3,4-trimethyl- | 128 | C9H20 | 016747-31-2 | 74 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

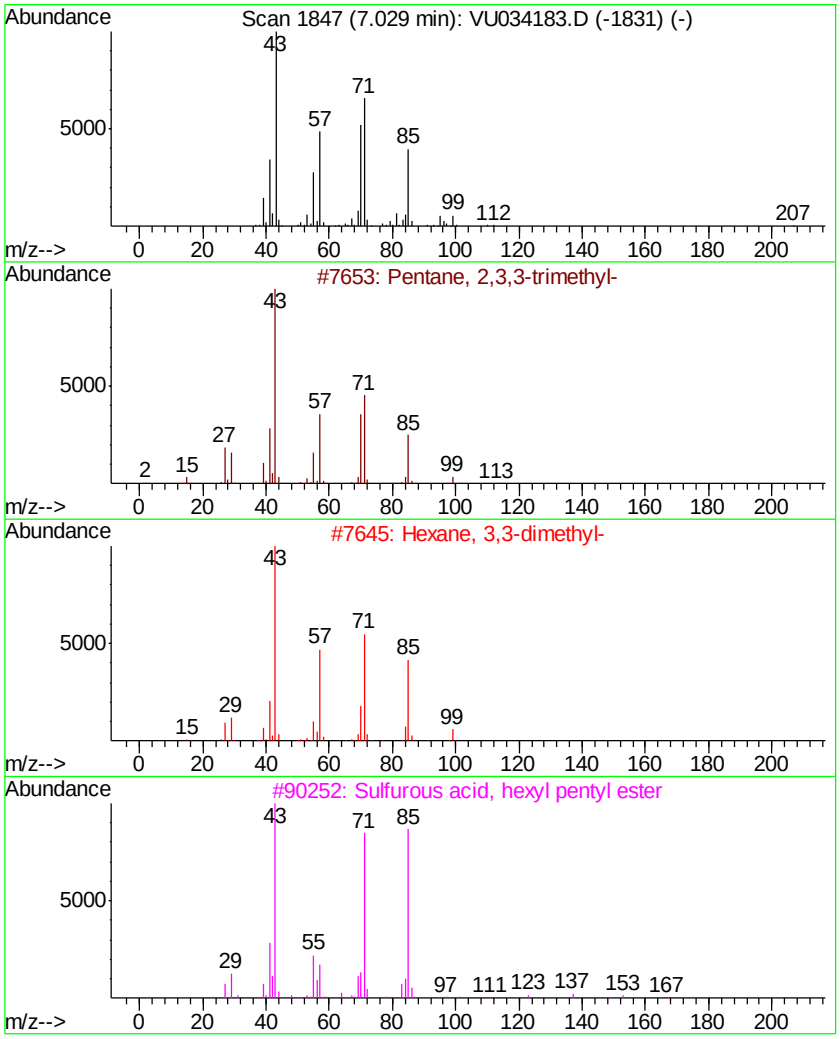
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

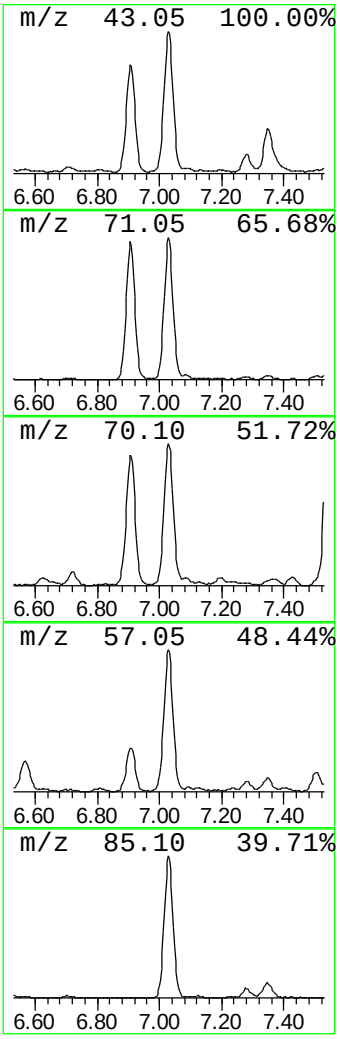
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.03 | 16.12 ug/l | 524049 | 1,4-Difluorobenzene | 5.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,3-trimethyl- | 114 | C8H18 | 000560-21-4 | 90 |
| 2 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 59 |
| 3 | Sulfurous acid, hexyl pentyl ester | 236 | C11H24O3S | 1000309-14-1 | 53 |
| 4 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 50 |
| 5 | 1-Iodo-2-methylnonane | 268 | C10H21I | 1000101-47-9 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

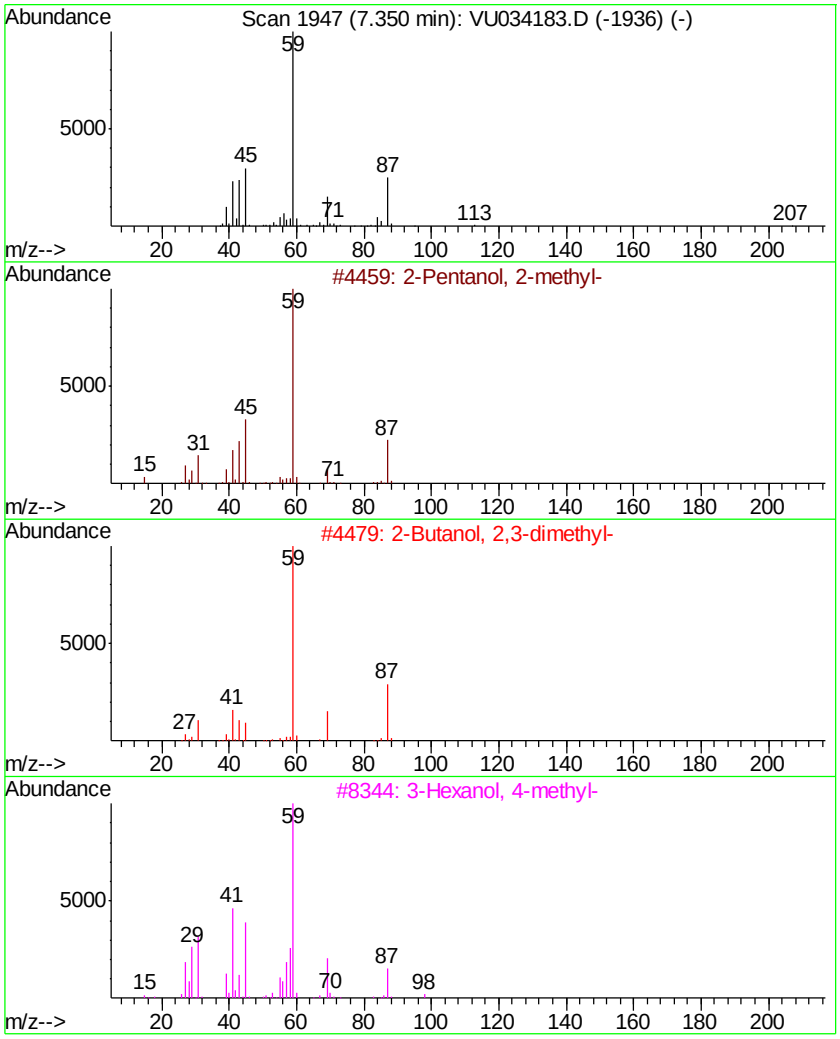
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

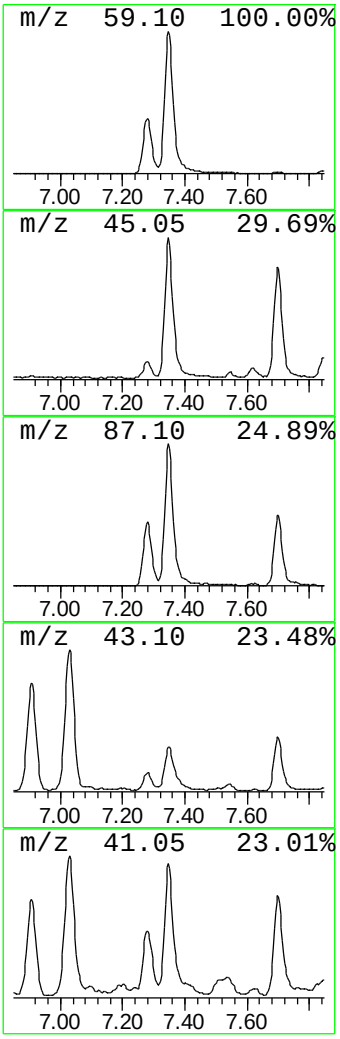
**********

Peak Number 7 2-Pentanol, 2-methyl- Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.35 | 10.32 ug/l | 335560 | 1,4-Difluorobenzene | 5.87 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentanol, 2-methyl- | 102 | C6H14O | 000590-36-3 | 78 |
| 2 | 2-Butanol, 2,3-dimethyl- | 102 | C6H14O | 000594-60-5 | 64 |
| 3 | 3-Hexanol, 4-methyl- | 116 | C7H16O | 000615-29-2 | 64 |
| 4 | Propane, 2-ethoxy-2-methyl- | 102 | C6H14O | 000637-92-3 | 59 |
| 5 | 3-Hexanol, 5-methyl- | 116 | C7H16O | 000623-55-2 | 40 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

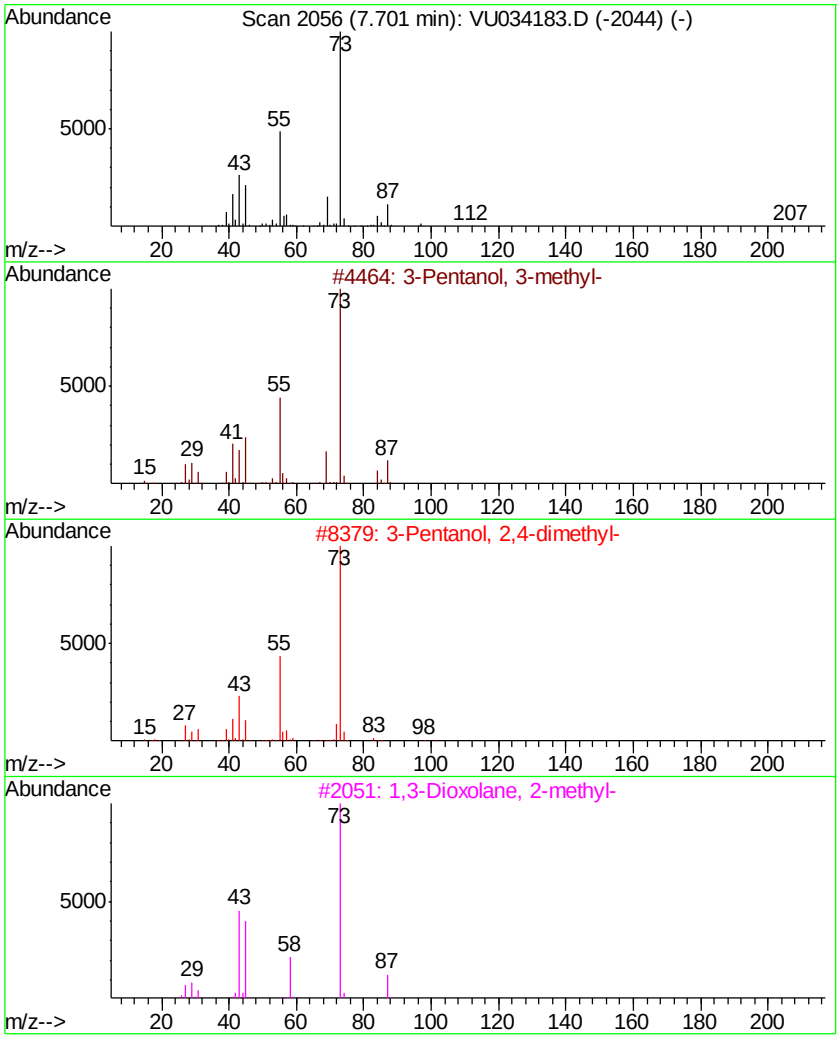
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

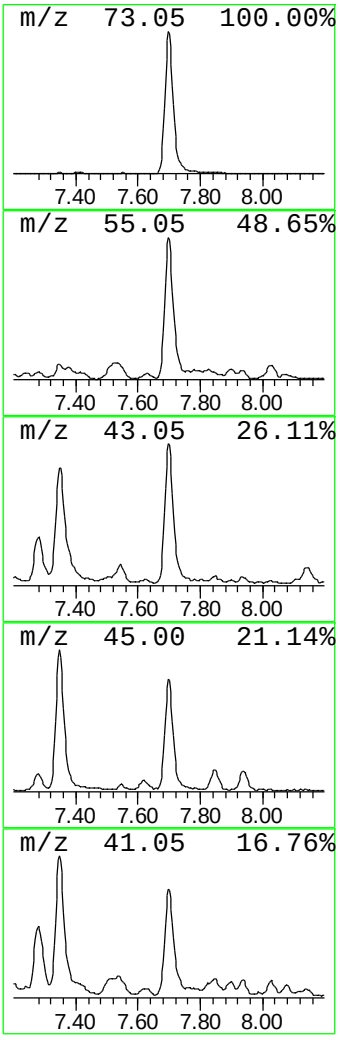
**********

Peak Number 8 3-Pentanol, 3-methyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.70 | 9.61 ug/l | 407891 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3-Pentanol, 3-methyl- | 102 | C6H14O | 000077-74-7 | 90 |
| 2 | 3-Pentanol, 2,4-dimethyl- | 116 | C7H16O | 000600-36-2 | 38 |
| 3 | 1,3-Dioxolane, 2-methyl- | 88 | C4H8O2 | 000497-26-7 | 35 |
| 4 | 4-[1,3]Dioxolan-2-yl-3,4-dimethy... | 196 | C11H16O3 | 054710-16-6 | 25 |
| 5 | Octanal, 7-methoxy-3,7-dimethyl- | 186 | C11H22O2 | 003613-30-7 | 17 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

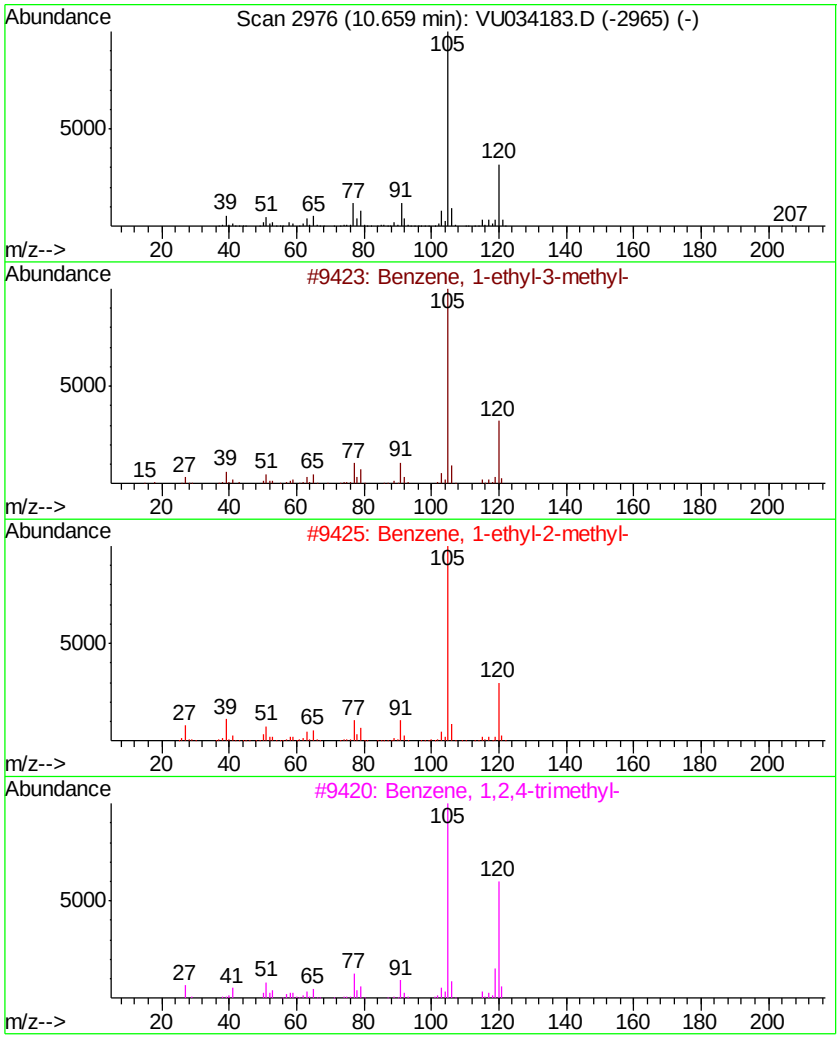
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

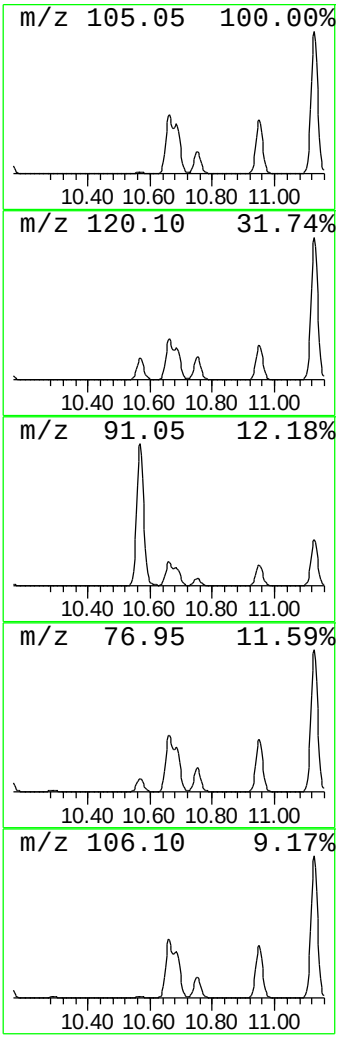
**********

Peak Number 9 Benzene, 1-ethyl-3-methyl- Concentration Rank 1

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.66 | 37.05 ug/l | 1645770 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 97 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 4 | Mesitylene | 120 | C9H12 | 000108-67-8 | 90 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 90 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

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

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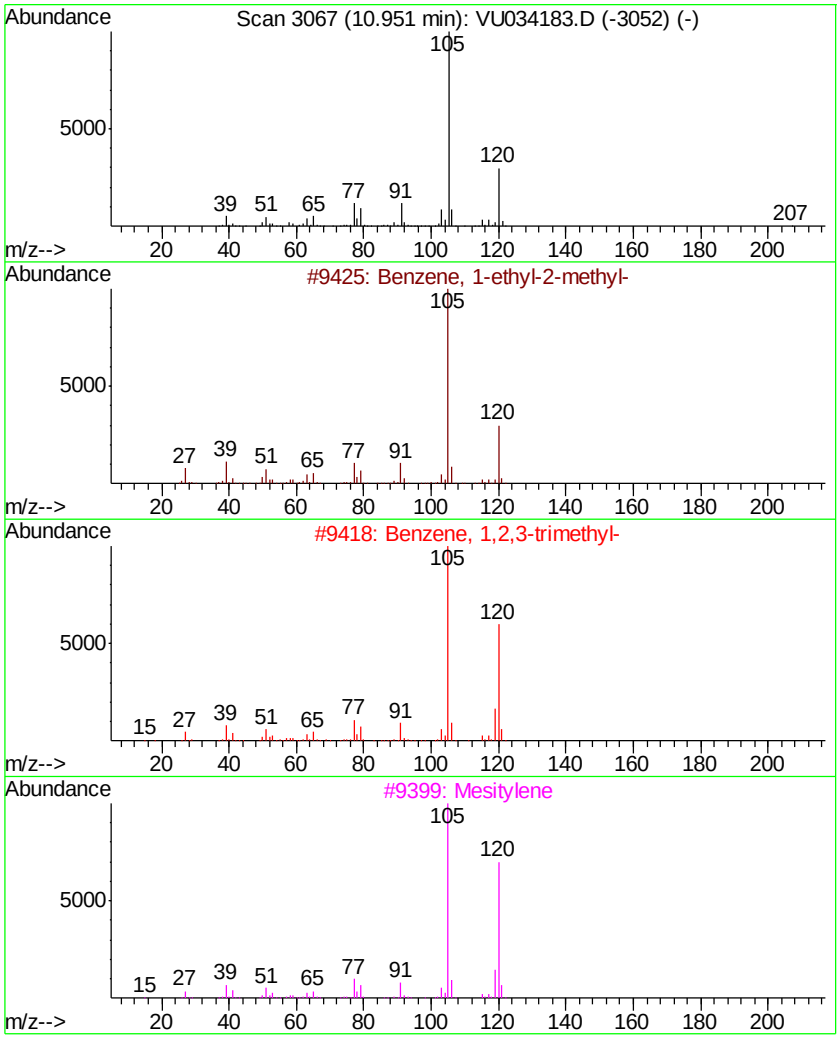
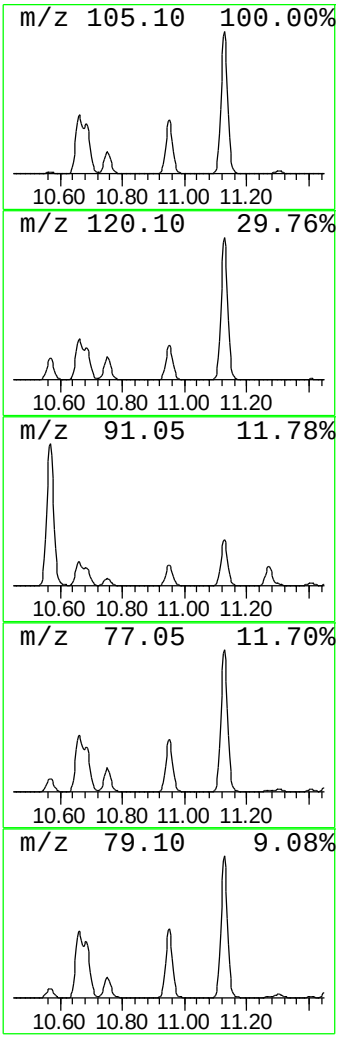
Peak Number 10 Benzene, 1-ethyl-2-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.95 | 33.30 ug/l | 1479270 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 2 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 91 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

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

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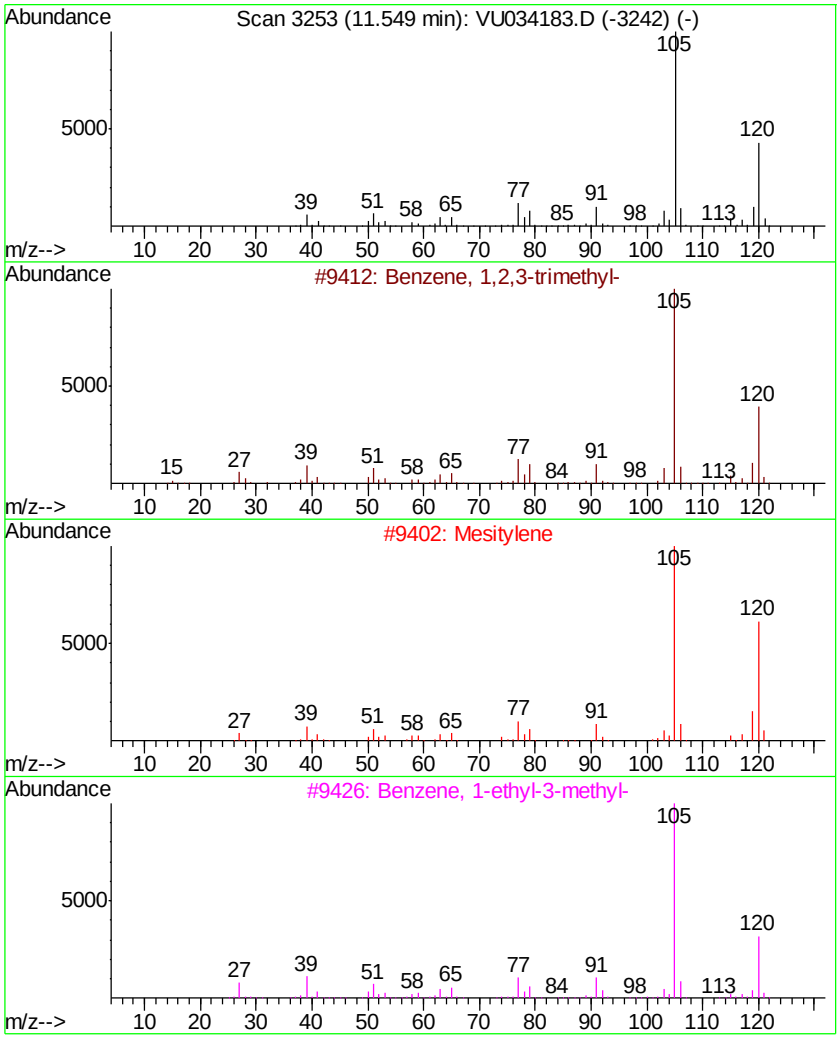
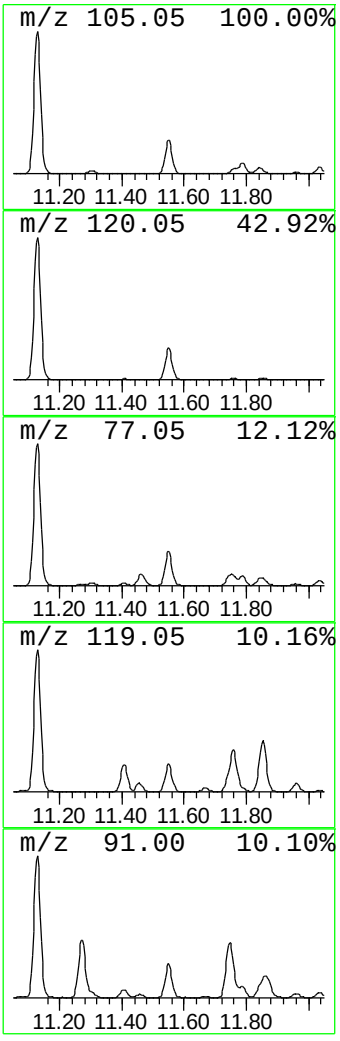
Peak Number 11 Benzene, 1,2,3-trimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.55 | 23.50 ug/l | 1044150 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 95 |
| 2 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 4 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 87 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

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

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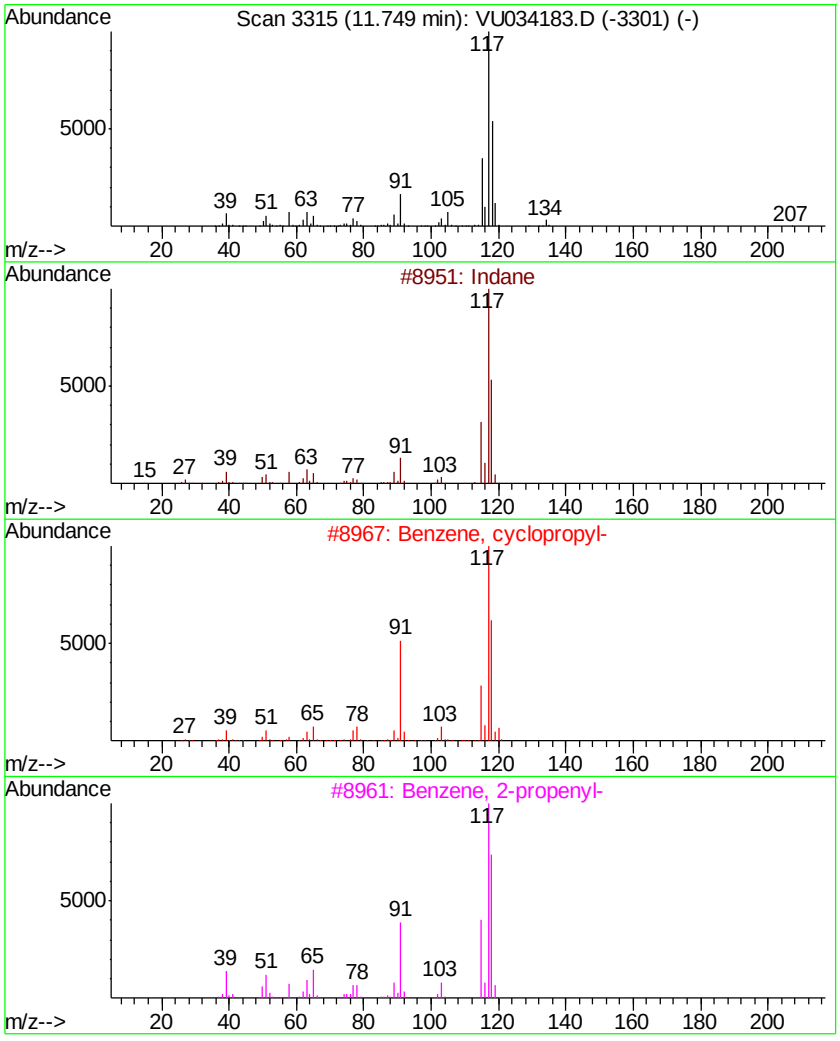
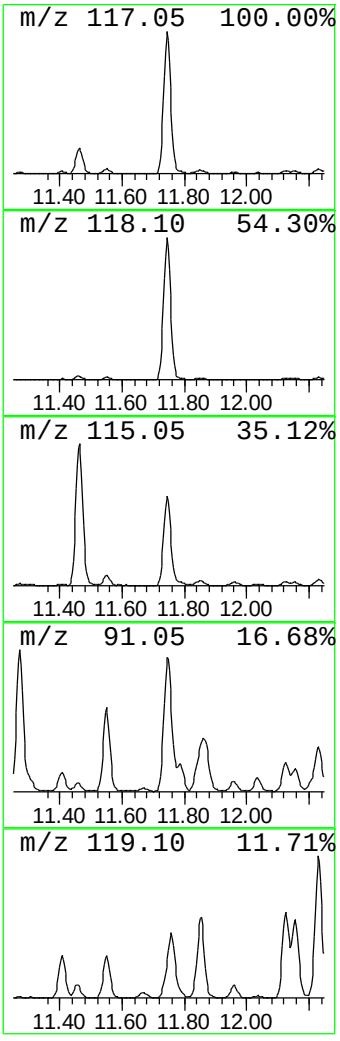
Peak Number 12 Indane Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.75 | 31.48 ug/l | 1398520 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 94 |
| 2 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 83 |
| 3 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 83 |
| 4 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 72 |
| 5 | Benzene, 1,1'-(1,5-hexadiene-1,6... | 234 | C18H18 | 004439-45-6 | 59 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

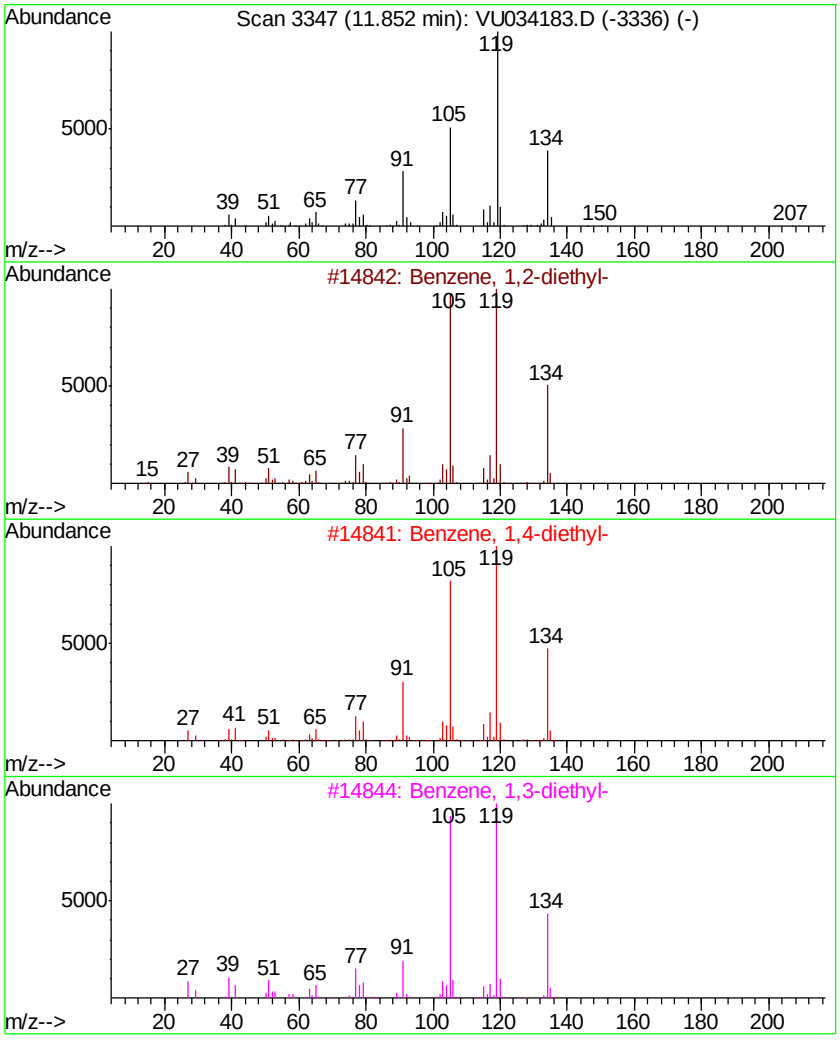
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

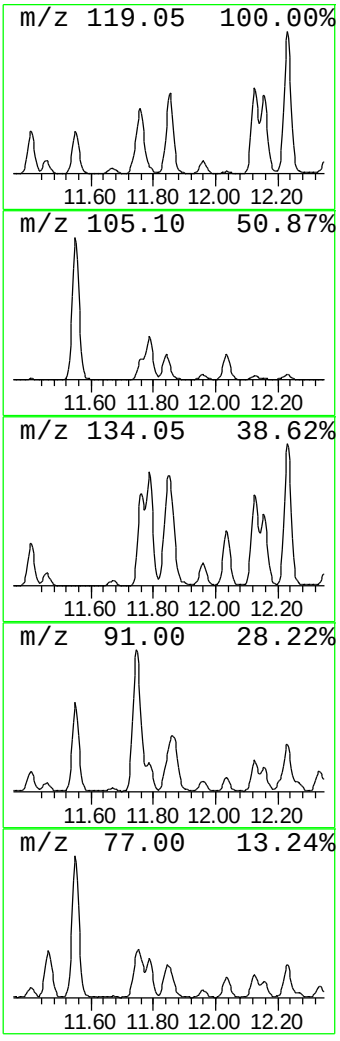
**********

Peak Number 13 Benzene, 1,2-diethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.85 | 9.09 ug/l | 403952 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 96 |
| 2 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 95 |
| 3 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 95 |
| 4 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 94 |
| 5 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

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

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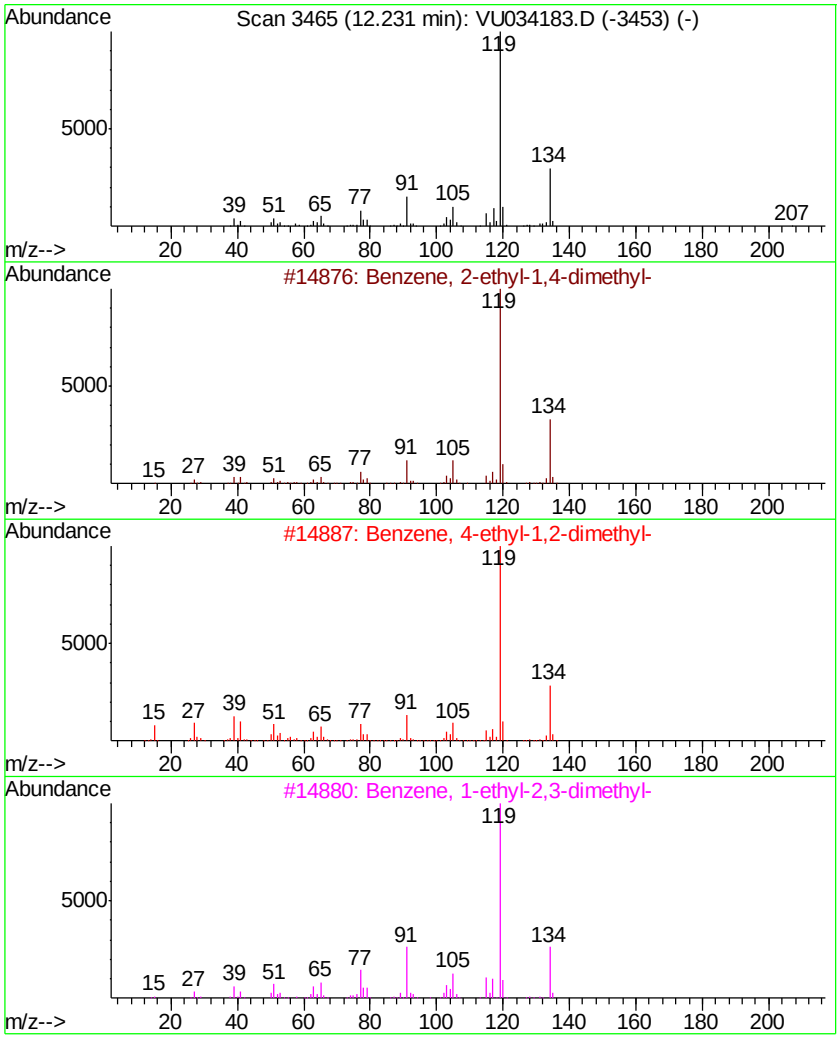
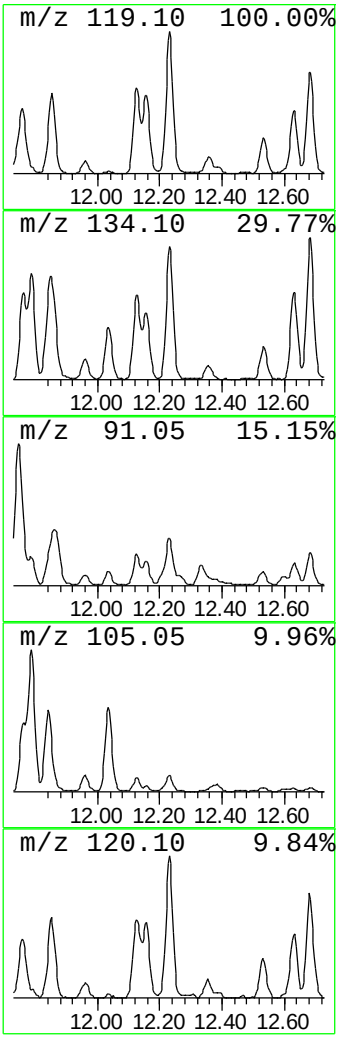
Peak Number 14 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.23 | 7.64 ug/l | 339471 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 95 |
| 2 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 95 |
| 3 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 95 |
| 4 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 94 |
| 5 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.M
Quant Title : SW846 8260

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

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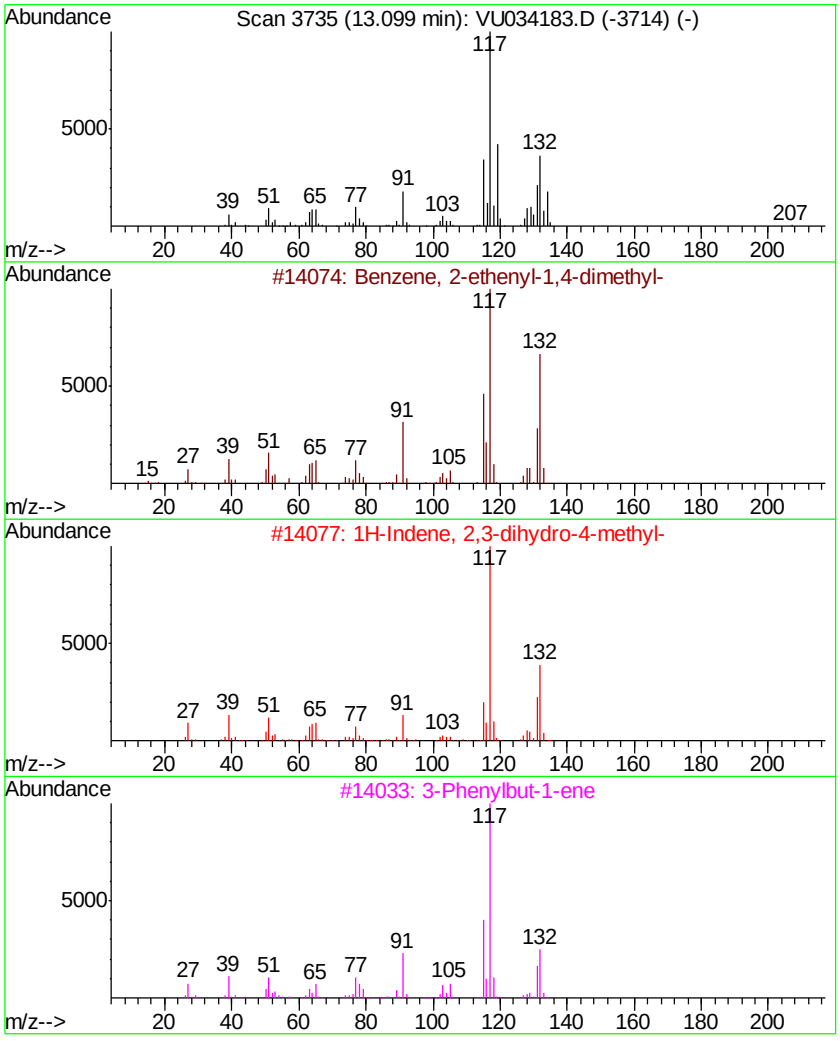
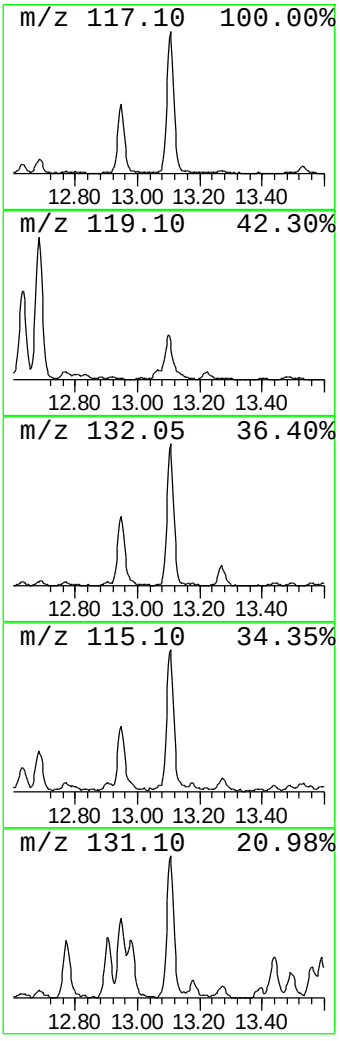
Peak Number 15 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.10 | 8.40 ug/l | 373359 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 92 |
| 2 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 87 |
| 3 | 3-Phenylbut-1-ene | 132 | C10H12 | 000934-10-1 | 81 |
| 4 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 76 |
| 5 | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12 | 002039-90-9 | 76 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU090219\
Data File : VU034183.D
Acq On : 01 Sep 2019 20:45
Operator : JC/SP
Sample : K4648-07
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** MW-8

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\82U082919W.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, 2,3-dimet... | 2.69 | 13.0 | ug/l | 368942 | 1 | 4.96 | 1419230 | 50.0 |
| Cyclopentane, met... | 4.07 | 9.2 | ug/l | 259996 | 1 | 4.96 | 1419230 | 50.0 |
| Amylene hydrate | 5.43 | 21.2 | ug/l | 689493 | 2 | 5.87 | 1625560 | 50.0 |
| Butane, 2,2,3,3-t... | 5.51 | 14.4 | ug/l | 469801 | 2 | 5.87 | 1625560 | 50.0 |
| Pentane, 2,3,4-tr... | 6.91 | 8.9 | ug/l | 290677 | 2 | 5.87 | 1625560 | 50.0 |
| Pentane, 2,3,3-tr... | 7.03 | 16.1 | ug/l | 524049 | 2 | 5.87 | 1625560 | 50.0 |
| 2-Pentanol, 2-met... | 7.35 | 10.3 | ug/l | 335560 | 2 | 5.87 | 1625560 | 50.0 |
| 3-Pentanol, 3-met... | 7.70 | 9.6 | ug/l | 407891 | 3 | 9.07 | 2122670 | 50.0 |
| Benzene, 1-ethyl-... | 10.66 | 37.0 | ug/l | 1645770 | 4 | 11.46 | 2221140 | 50.0 |
| Benzene, 1-ethyl-... | 10.95 | 33.3 | ug/l | 1479270 | 4 | 11.46 | 2221140 | 50.0 |
| Benzene, 1,2,3-tr... | 11.55 | 23.5 | ug/l | 1044150 | 4 | 11.46 | 2221140 | 50.0 |
| Indane | 11.75 | 31.5 | ug/l | 1398520 | 4 | 11.46 | 2221140 | 50.0 |
| Benzene, 1,2-diet... | 11.85 | 9.1 | ug/l | 403952 | 4 | 11.46 | 2221140 | 50.0 |
| Benzene, 2-ethyl-... | 12.23 | 7.6 | ug/l | 339471 | 4 | 11.46 | 2221140 | 50.0 |
| Benzene, 2-etheny... | 13.10 | 8.4 | ug/l | 373359 | 4 | 11.46 | 2221140 | 50.0 |