LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

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\SOMULM011420WMA.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 | 1.613 | 77 | 85 | 96 | rBV | 242711 | 259098 | 1.58% | 0.425% |
| 2 | 1.925 | 174 | 182 | 192 | rBV | 206403 | 271227 | 1.65% | 0.445% |
| 3 | 2.591 | 375 | 389 | 404 | rBV | 426359 | 708191 | 4.31% | 1.162% |
| 4 | 2.781 | 445 | 448 | 453 | rVB5 | 1022 | 795 | 0.00% | 0.001% |
| 5 | 3.022 | 519 | 523 | 528 | rBV7 | 1038 | 1372 | 0.01% | 0.002% |
| 6 | 3.080 | 533 | 541 | 546 | rBV6 | 3275 | 4621 | 0.03% | 0.008% |
| 7 | 3.170 | 564 | 569 | 573 | rBV5 | 1107 | 1179 | 0.01% | 0.002% |
| 8 | 3.228 | 573 | 587 | 601 | rVB2 | 10140 | 21630 | 0.13% | 0.035% |
| 9 | 3.520 | 675 | 678 | 682 | rBV2 | 1003 | 687 | 0.00% | 0.001% |
| 10 | 3.620 | 704 | 709 | 712 | rVB4 | 1021 | 822 | 0.01% | 0.001% |
| 11 | 3.874 | 784 | 788 | 791 | rVB4 | 736 | 670 | 0.00% | 0.001% |
| 12 | 4.398 | 945 | 951 | 954 | rBV2 | 649 | 669 | 0.00% | 0.001% |
| 13 | 4.552 | 995 | 999 | 1004 | rBV2 | 659 | 733 | 0.00% | 0.001% |
| 14 | 4.678 | 1022 | 1038 | 1063 | rBV | 218050 | 521247 | 3.17% | 0.855% |
| 15 | 5.109 | 1155 | 1172 | 1193 | rBV | 414176 | 901415 | 5.49% | 1.479% |
| 16 | 5.337 | 1241 | 1243 | 1253 | rVB7 | 1843 | 2149 | 0.01% | 0.004% |
| 17 | 5.562 | 1308 | 1313 | 1319 | rBV4 | 895 | 910 | 0.01% | 0.001% |
| 18 | 5.764 | 1353 | 1376 | 1387 | rBV2 | 827678 | 2220238 | 13.52% | 3.643% |
| 19 | 6.063 | 1458 | 1469 | 1479 | rVB2 | 4763 | 9522 | 0.06% | 0.016% |
| 20 | 6.163 | 1493 | 1500 | 1508 | rVB7 | 2879 | 5073 | 0.03% | 0.008% |
| 21 | 6.199 | 1508 | 1511 | 1514 | rVB3 | 1215 | 822 | 0.01% | 0.001% |
| 22 | 6.285 | 1522 | 1538 | 1555 | rBV | 813745 | 1526862 | 9.30% | 2.505% |
| 23 | 6.565 | 1616 | 1625 | 1634 | rBV8 | 6780 | 10791 | 0.07% | 0.018% |
| 24 | 6.729 | 1660 | 1676 | 1693 | rBV | 525519 | 1016730 | 6.19% | 1.668% |
| 25 | 6.928 | 1735 | 1738 | 1743 | rVB3 | 891 | 774 | 0.00% | 0.001% |
| 26 | 7.083 | 1782 | 1786 | 1790 | rBV | 905 | 1000 | 0.01% | 0.002% |
| 27 | 7.182 | 1808 | 1817 | 1818 | rBV5 | 1275 | 1173 | 0.01% | 0.002% |
| 28 | 7.221 | 1820 | 1829 | 1836 | rVV6 | 4934 | 7704 | 0.05% | 0.013% |
| 29 | 7.523 | 1917 | 1923 | 1926 | rBV4 | 2390 | 2583 | 0.02% | 0.004% |
| 30 | 7.597 | 1933 | 1946 | 1964 | rBV | 325214 | 564423 | 3.44% | 0.926% |
| 31 | 7.678 | 1968 | 1971 | 1974 | rVV4 | 1930 | 1688 | 0.01% | 0.003% |
| 32 | 7.716 | 1977 | 1983 | 1991 | rVB8 | 2478 | 3604 | 0.02% | 0.006% |
| 33 | 7.790 | 1999 | 2006 | 2011 | rVB8 | 2173 | 2547 | 0.02% | 0.004% |
| 34 | 7.822 | 2011 | 2016 | 2017 | rBV3 | 1032 | 937 | 0.01% | 0.002% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

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\SOMULM011420WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.874 | 2030 | 2032 | 2036 | rBV5 | 877 | 837 | 0.01% | 0.001% |
| 36 | 7.928 | 2036 | 2049 | 2061 | rVV | 1074770 | 1837971 | 11.19% | 3.016% |
| 37 | 7.999 | 2061 | 2071 | 2089 | rVB | 878147 | 1515720 | 9.23% | 2.487% |
| 38 | 8.131 | 2104 | 2112 | 2115 | rBV3 | 12261 | 16750 | 0.10% | 0.027% |
| 39 | 8.211 | 2126 | 2137 | 2151 | rVB | 229340 | 374096 | 2.28% | 0.614% |
| 40 | 8.305 | 2159 | 2166 | 2176 | rVB3 | 11262 | 19644 | 0.12% | 0.032% |
| 41 | 8.668 | 2266 | 2279 | 2307 | rBV | 700299 | 1242251 | 7.57% | 2.038% |
| 42 | 9.079 | 2400 | 2407 | 2411 | rBV5 | 2656 | 3768 | 0.02% | 0.006% |
| 43 | 9.150 | 2422 | 2429 | 2436 | rBV7 | 1514 | 2328 | 0.01% | 0.004% |
| 44 | 9.189 | 2438 | 2441 | 2444 | rBV | 1314 | 816 | 0.00% | 0.001% |
| 45 | 9.234 | 2451 | 2455 | 2465 | rVB7 | 4263 | 6027 | 0.04% | 0.010% |
| 46 | 9.356 | 2487 | 2493 | 2501 | rVB6 | 6076 | 7755 | 0.05% | 0.013% |
| 47 | 9.446 | 2507 | 2521 | 2539 | rBV | 1152521 | 1925932 | 11.73% | 3.160% |
| 48 | 9.597 | 2556 | 2568 | 2584 | rVB | 117987 | 190959 | 1.16% | 0.313% |
| 49 | 9.719 | 2586 | 2606 | 2617 | rBV | 1227692 | 2076990 | 12.65% | 3.408% |
| 50 | 9.886 | 2646 | 2658 | 2669 | rBV3 | 24335 | 40668 | 0.25% | 0.067% |
| 51 | 10.038 | 2697 | 2705 | 2706 | rBV4 | 2958 | 3110 | 0.02% | 0.005% |
| 52 | 10.083 | 2712 | 2719 | 2722 | rBV6 | 10732 | 14118 | 0.09% | 0.023% |
| 53 | 10.124 | 2722 | 2732 | 2754 | rVB | 511976 | 877994 | 5.35% | 1.441% |
| 54 | 10.272 | 2768 | 2778 | 2788 | rBV6 | 9735 | 17907 | 0.11% | 0.029% |
| 55 | 10.366 | 2796 | 2807 | 2809 | rBV6 | 8613 | 12929 | 0.08% | 0.021% |
| 56 | 10.507 | 2837 | 2851 | 2861 | rBV3 | 11275 | 20829 | 0.13% | 0.034% |
| 57 | 10.558 | 2864 | 2867 | 2870 | rBV3 | 2235 | 1643 | 0.01% | 0.003% |
| 58 | 10.716 | 2913 | 2916 | 2923 | rVB6 | 2191 | 1979 | 0.01% | 0.003% |
| 59 | 10.780 | 2924 | 2936 | 2952 | rBV | 759665 | 1232200 | 7.50% | 2.022% |
| 60 | 10.928 | 2974 | 2982 | 2991 | rVB | 17340 | 26550 | 0.16% | 0.044% |
| 61 | 11.021 | 2997 | 3011 | 3026 | rBV | 196503 | 452906 | 2.76% | 0.743% |
| 62 | 11.111 | 3030 | 3039 | 3058 | rVB2 | 314434 | 615245 | 3.75% | 1.010% |
| 63 | 11.227 | 3070 | 3075 | 3083 | rVB6 | 6941 | 10494 | 0.06% | 0.017% |
| 64 | 11.337 | 3093 | 3109 | 3121 | rBV5 | 82971 | 211654 | 1.29% | 0.347% |
| 65 | 11.436 | 3133 | 3140 | 3145 | rBV6 | 11705 | 14810 | 0.09% | 0.024% |
| 66 | 11.488 | 3145 | 3156 | 3169 | rVV | 784221 | 1211104 | 7.38% | 1.987% |
| 67 | 11.558 | 3170 | 3178 | 3185 | rVV2 | 41486 | 60806 | 0.37% | 0.100% |
| 68 | 11.610 | 3188 | 3194 | 3204 | rVB6 | 13094 | 20255 | 0.12% | 0.033% |
| 69 | 11.751 | 3225 | 3238 | 3251 | rBV | 539791 | 888181 | 5.41% | 1.457% |
| 70 | 11.832 | 3251 | 3263 | 3277 | rVV | 1272462 | 2073868 | 12.63% | 3.403% |
| 71 | 11.915 | 3279 | 3289 | 3298 | rVV | 245333 | 390659 | 2.38% | 0.641% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

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\SOMULM011420WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 11.967 | 3299 | 3305 | 3315 | rVB2 | 48022 | 74044 | 0.45% | 0.122% |
| 73 | 12.021 | 3316 | 3322 | 3328 | rBV9 | 7953 | 11633 | 0.07% | 0.019% |
| 74 | 12.115 | 3342 | 3351 | 3369 | rVB3 | 136781 | 258117 | 1.57% | 0.424% |
| 75 | 12.214 | 3369 | 3382 | 3397 | rVB | 1235464 | 2027371 | 12.35% | 3.327% |
| 76 | 12.333 | 3401 | 3419 | 3433 | rBV | 1891134 | 3065501 | 18.67% | 5.030% |
| 77 | 12.484 | 3459 | 3466 | 3470 | rBV3 | 38451 | 54125 | 0.33% | 0.089% |
| 78 | 12.562 | 3484 | 3490 | 3492 | rBV5 | 23390 | 27600 | 0.17% | 0.045% |
| 79 | 12.591 | 3494 | 3499 | 3507 | rVB | 77103 | 104062 | 0.63% | 0.171% |
| 80 | 12.944 | 3600 | 3609 | 3617 | rBV | 187715 | 289269 | 1.76% | 0.475% |
| 81 | 12.989 | 3618 | 3623 | 3630 | rVB | 69058 | 87825 | 0.53% | 0.144% |
| 82 | 13.047 | 3630 | 3641 | 3652 | rBV | 540107 | 979572 | 5.97% | 1.607% |
| 83 | 13.311 | 3715 | 3723 | 3734 | rVB2 | 57881 | 89294 | 0.54% | 0.147% |
| 84 | 13.449 | 3758 | 3766 | 3783 | rVV6 | 168469 | 451928 | 2.75% | 0.742% |
| 85 | 13.536 | 3785 | 3793 | 3804 | rVB | 346745 | 525019 | 3.20% | 0.862% |
| 86 | 13.645 | 3818 | 3827 | 3838 | rVB | 372712 | 612137 | 3.73% | 1.004% |
| 87 | 13.851 | 3885 | 3891 | 3906 | rBV4 | 27883 | 49909 | 0.30% | 0.082% |
| 88 | 14.105 | 3954 | 3970 | 3987 | rVB | 10104514 | 16420731 | 100.00% | 26.945% |
| 89 | 14.224 | 3999 | 4007 | 4025 | rVB | 437725 | 806946 | 4.91% | 1.324% |
| 90 | 14.301 | 4026 | 4031 | 4042 | rVB3 | 53247 | 77737 | 0.47% | 0.128% |
| 91 | 14.462 | 4075 | 4081 | 4089 | rBV | 70873 | 88758 | 0.54% | 0.146% |
| 92 | 15.240 | 4311 | 4323 | 4349 | rVB | 2703177 | 4383334 | 26.69% | 7.193% |
| 93 | 15.356 | 4350 | 4359 | 4367 | rBV | 62205 | 105444 | 0.64% | 0.173% |
| 94 | 15.426 | 4369 | 4381 | 4400 | rVB | 1530636 | 2477484 | 15.09% | 4.065% |
| 95 | 15.967 | 4539 | 4549 | 4559 | rVB | 207671 | 322790 | 1.97% | 0.530% |
| 96 | 16.275 | 4634 | 4645 | 4669 | rVB | 358797 | 680946 | 4.15% | 1.117% |
| 97 | 16.423 | 4681 | 4691 | 4697 | rBV | 440524 | 691335 | 4.21% | 1.134% |
| 98 | 16.651 | 4747 | 4762 | 4774 | rVB3 | 131894 | 314958 | 1.92% | 0.517% |
| 99 | 16.799 | 4800 | 4808 | 4819 | rVB2 | 79240 | 123528 | 0.75% | 0.203% |
| 100 | 16.896 | 4829 | 4838 | 4851 | rVB2 | 148805 | 244213 | 1.49% | 0.401% |

Sum of corrected areas: 60941249

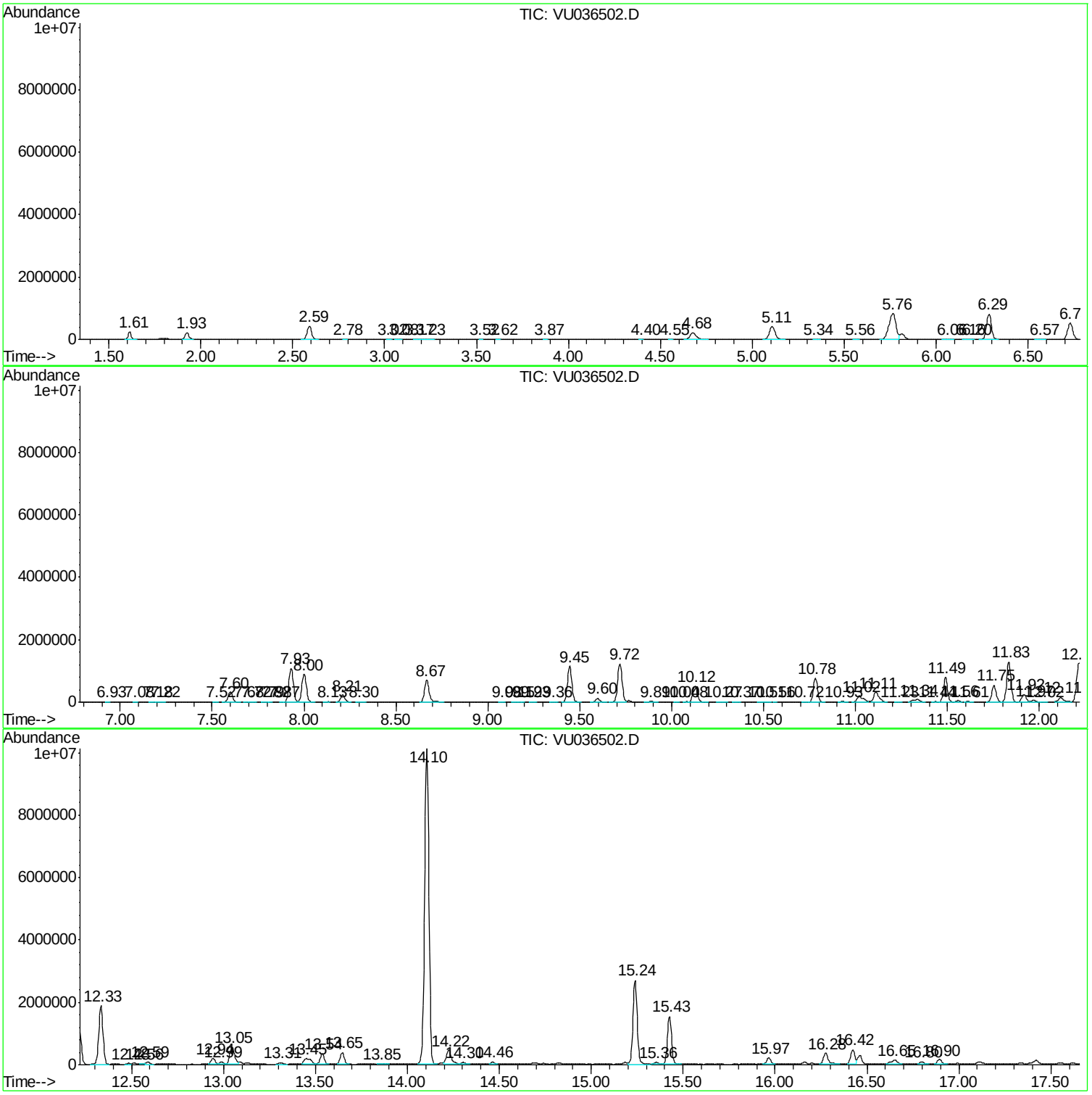
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

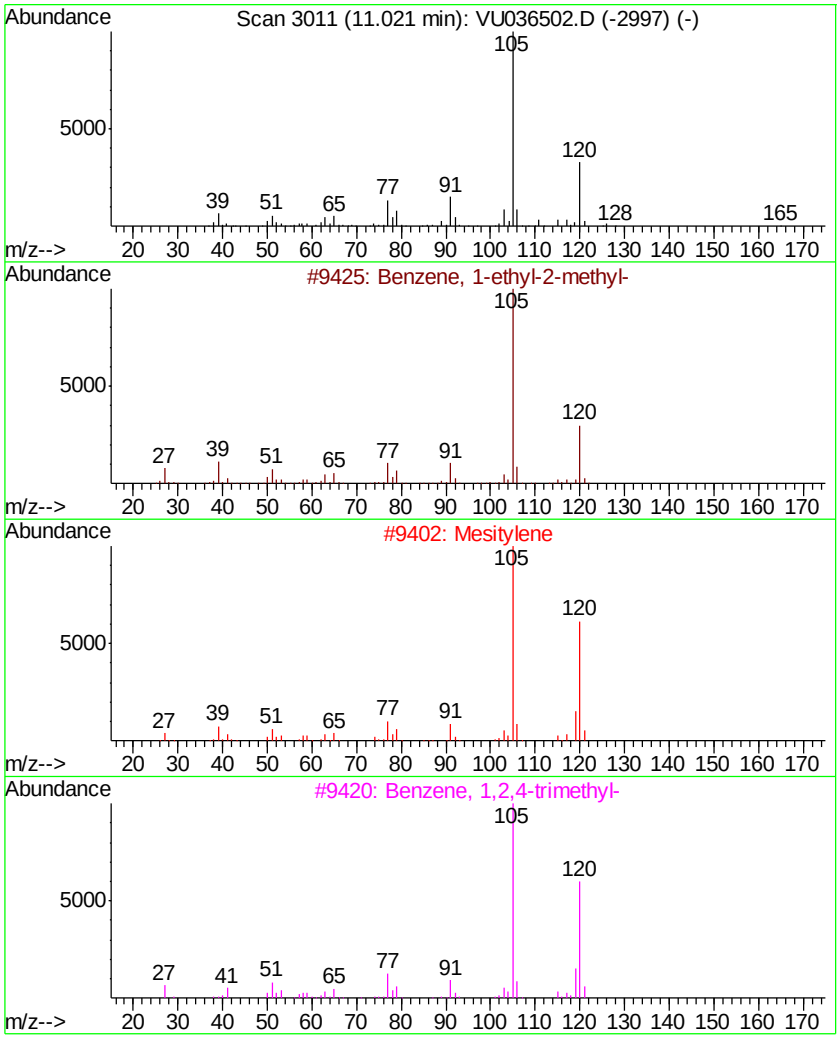
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

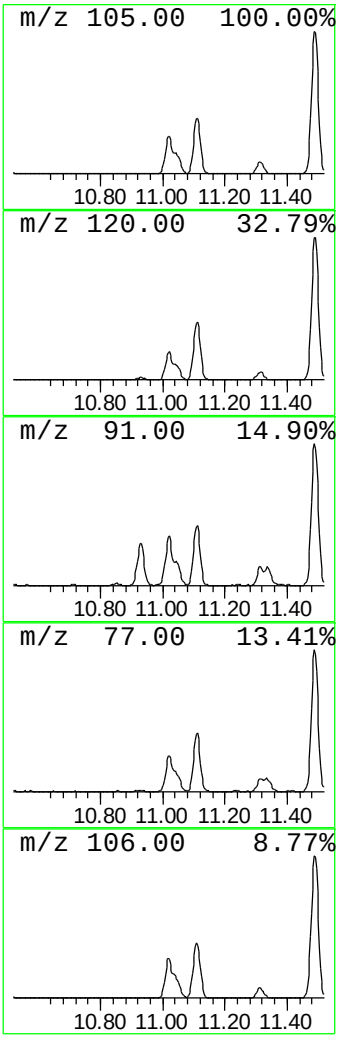
**********

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

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.02 | 10.92 ug/L | 452906 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 93 |
| 2 | Mesitylene | 120 | C9H12 | 000108-67-8 | 90 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 90 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 87 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 87 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

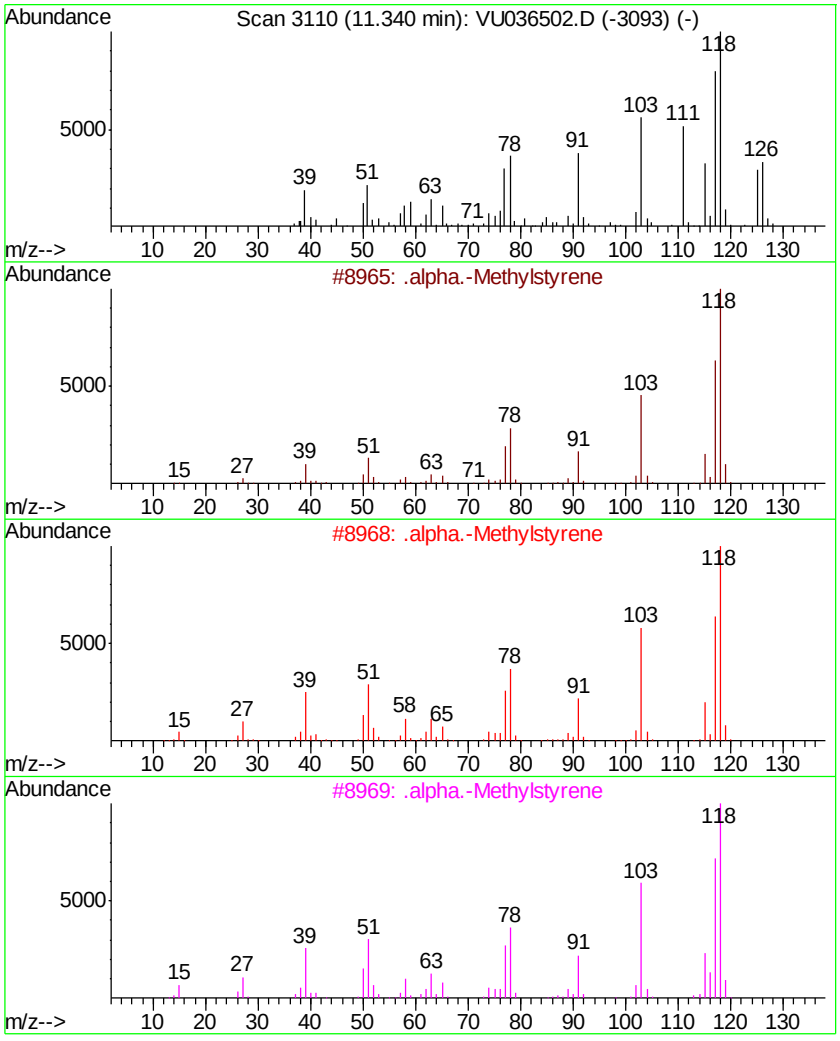
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

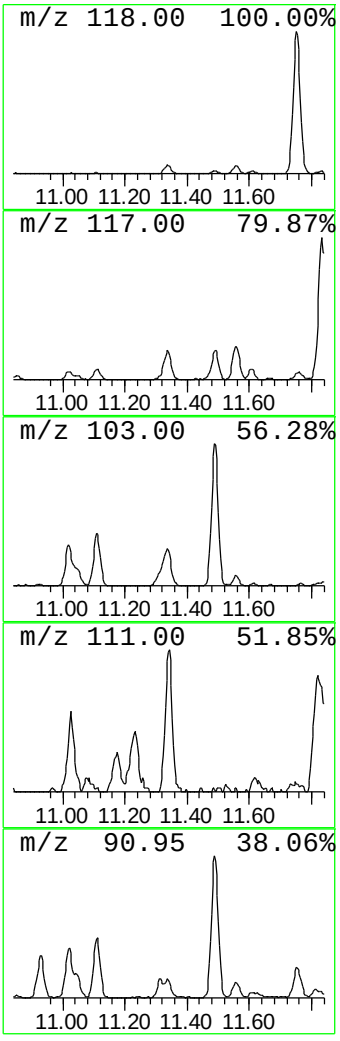
**********

Peak Number 4 .alpha.-Methylstyrene Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.34 | 5.10 ug/L | 211654 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.-Methylstyrene | 118 | C9H10 | 000098-83-9 | 94 |
| 2 | .alpha.-Methylstyrene | 118 | C9H10 | 000098-83-9 | 93 |
| 3 | .alpha.-Methylstyrene | 118 | C9H10 | 000098-83-9 | 86 |
| 4 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 118 | C9H10 | 022250-74-4 | 64 |
| 5 | Azetidine, 3-methyl-3-phenyl- | 147 | C10H13N | 005961-33-1 | 52 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

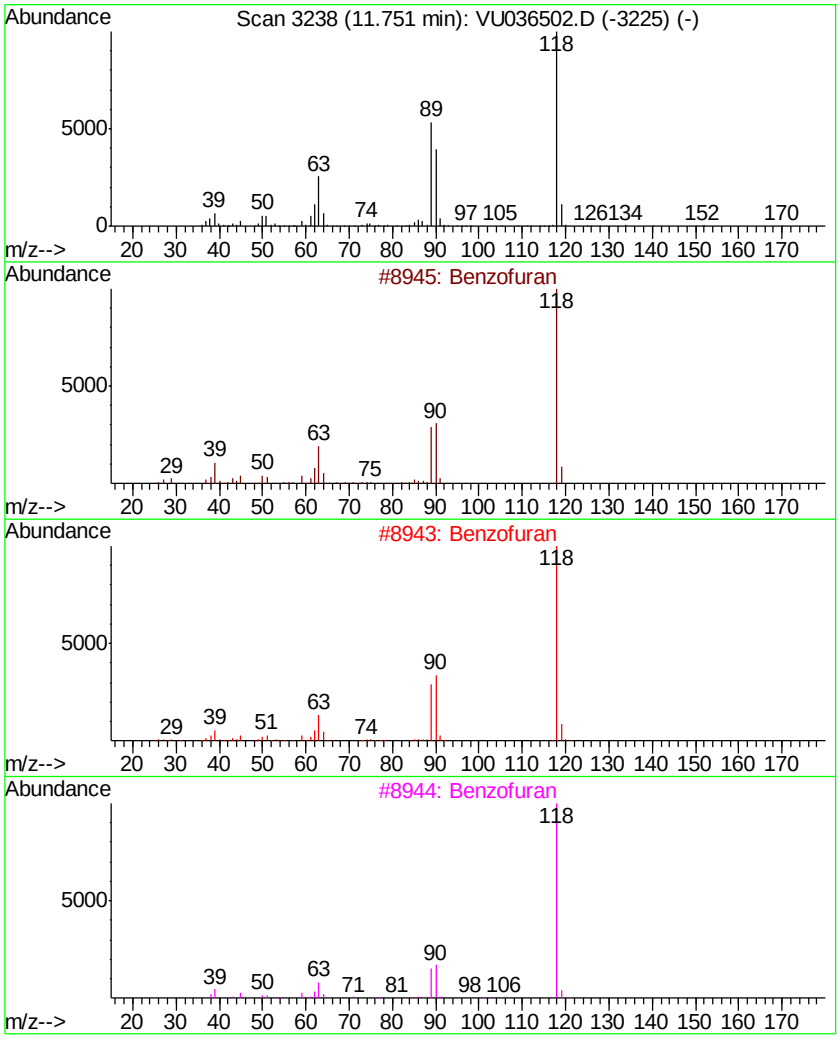
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

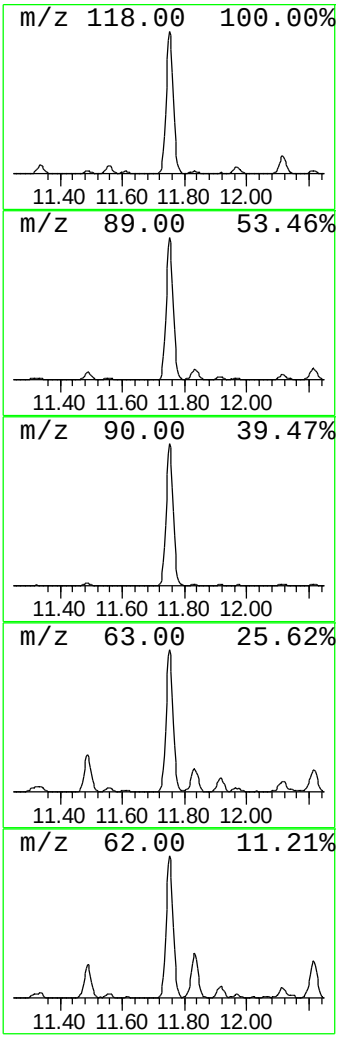
**********

Peak Number 6 Benzofuran Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.75 | 21.41 ug/L | 888181 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzofuran | 118 | C8H6O | 000271-89-6 | 91 |
| 2 | Benzofuran | 118 | C8H6O | 000271-89-6 | 90 |
| 3 | Benzofuran | 118 | C8H6O | 000271-89-6 | 64 |
| 4 | 1H-Pyrrolo[2,3-b]pyridine | 118 | C7H6N2 | 000271-63-6 | 40 |
| 5 | 2-Pyridinecarbonitrile, 3-methyl- | 118 | C7H6N2 | 1000318-76-9 | 33 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

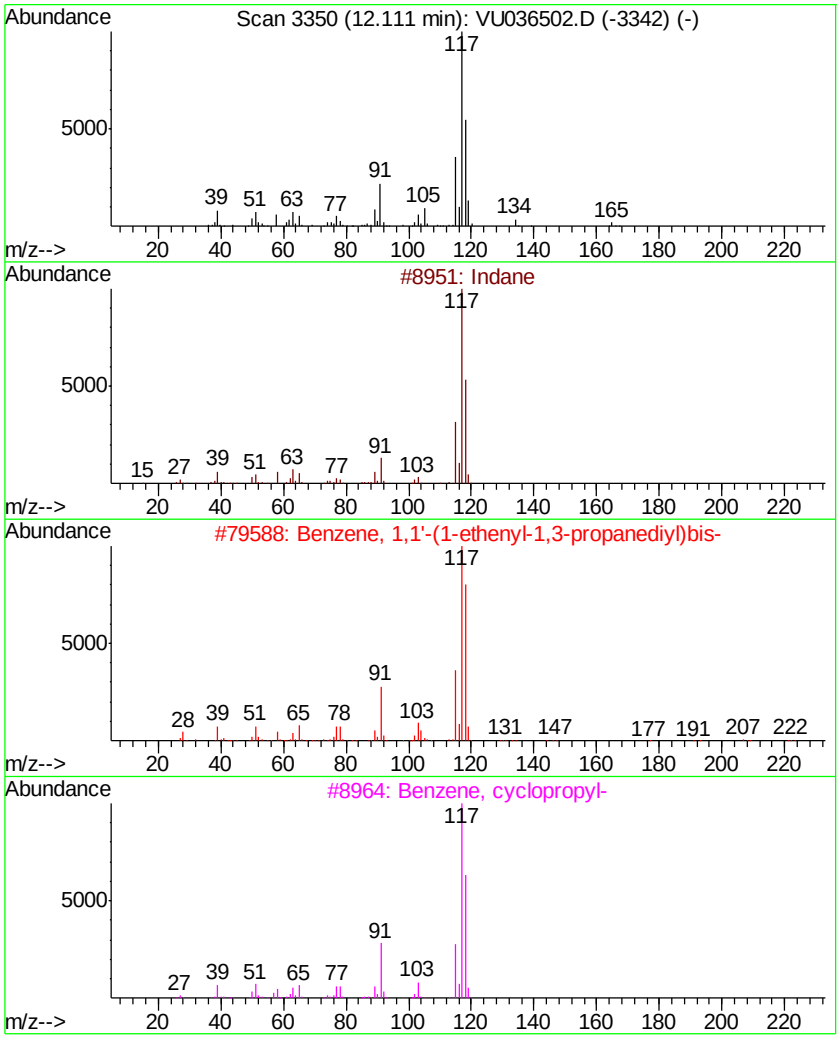
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

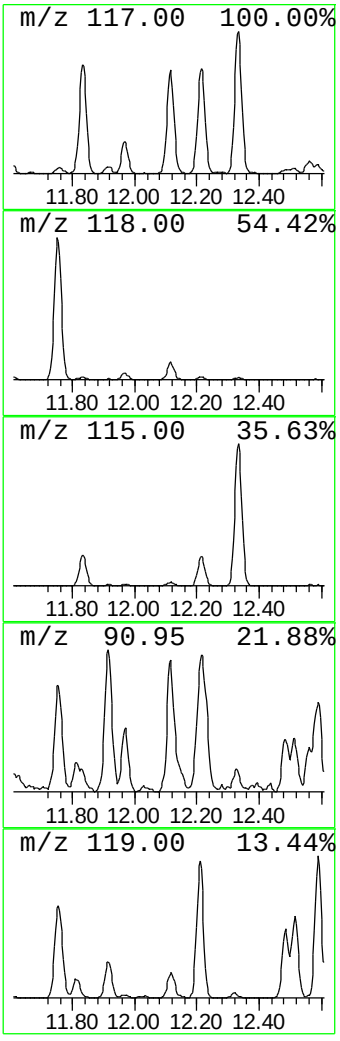
**********

Peak Number 8 Indane Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.11 | 6.22 ug/L | 258117 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 93 |
| 2 | Benzene, 1,1'-(1-ethenyl-1,3-pro... | 222 | C17H18 | 061141-97-7 | 80 |
| 3 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 76 |
| 4 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 76 |
| 5 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 76 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

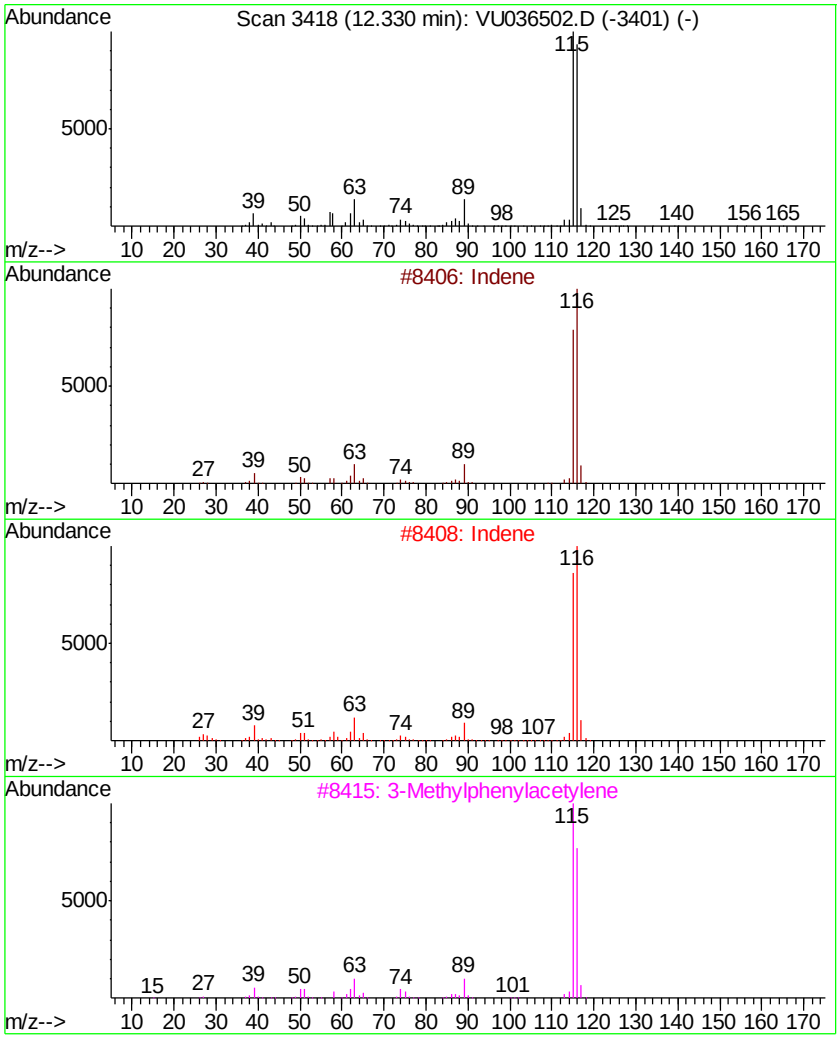
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

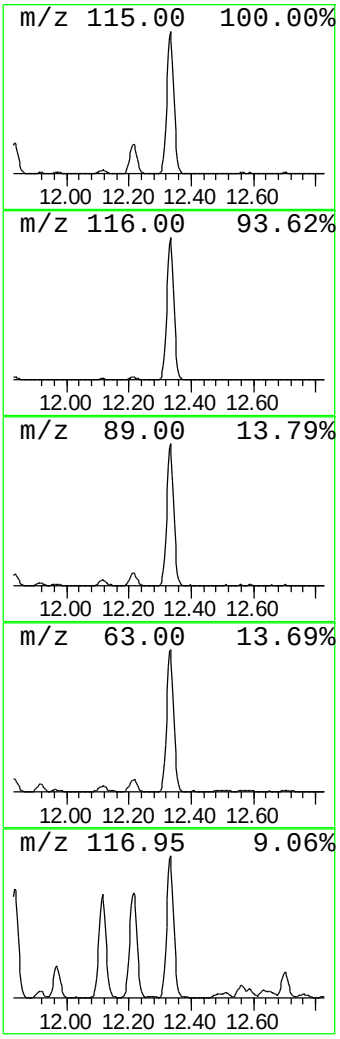
**********

Peak Number 9 Indene Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.33 | 73.91 ug/L | 3065500 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indene | 116 | C9H8 | 000095-13-6 | 97 |
| 2 | Indene | 116 | C9H8 | 000095-13-6 | 96 |
| 3 | 3-Methylphenylacetylene | 116 | C9H8 | 000766-82-5 | 91 |
| 4 | Benzene, 1-propynyl- | 116 | C9H8 | 000673-32-5 | 91 |
| 5 | Benzene, 1,2-propadienyl- | 116 | C9H8 | 002327-99-3 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

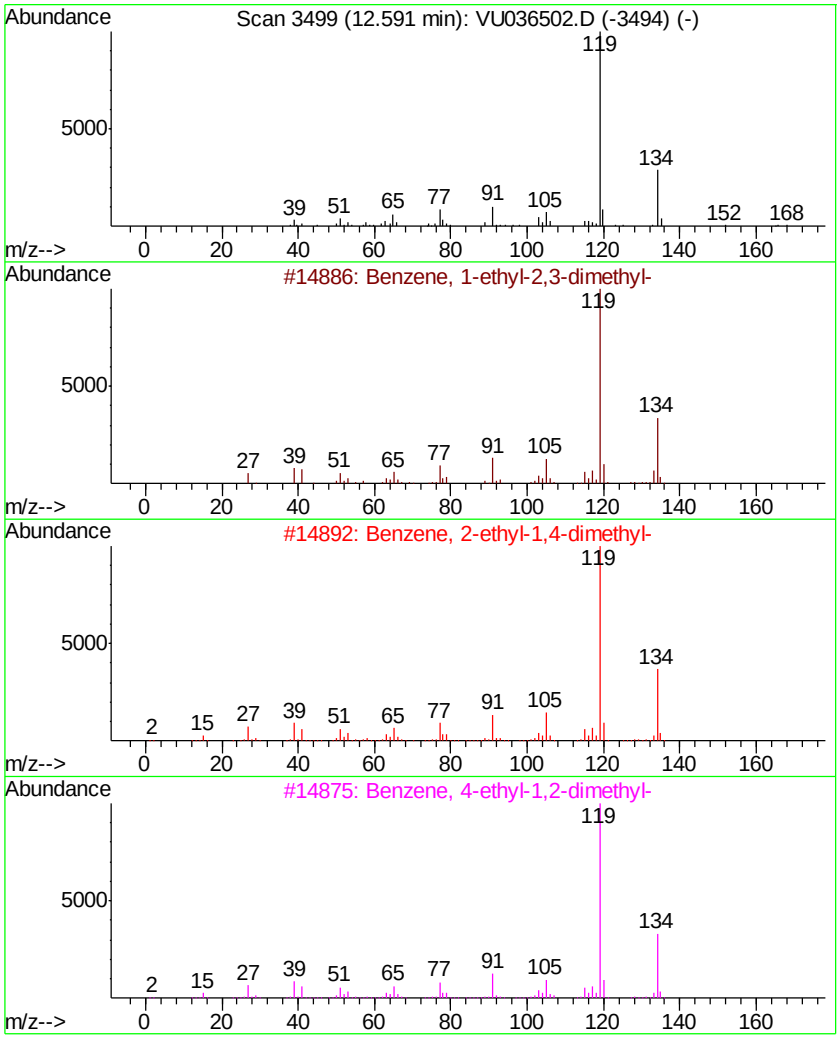
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

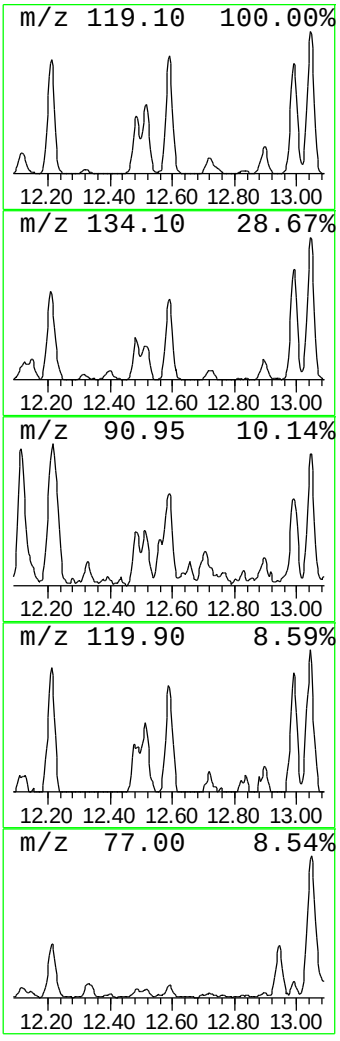
**********

Peak Number 10 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.59 | 2.51 ug/L | 104062 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |
| 2 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 91 |
| 3 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 91 |
| 4 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

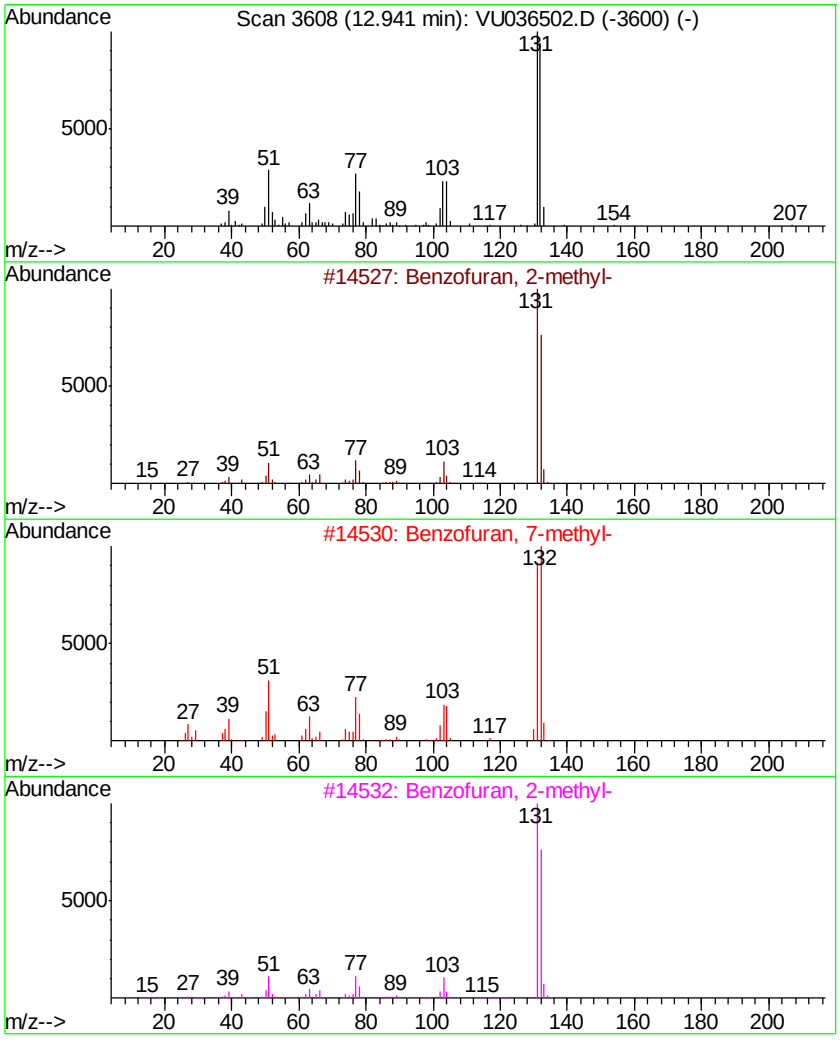
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

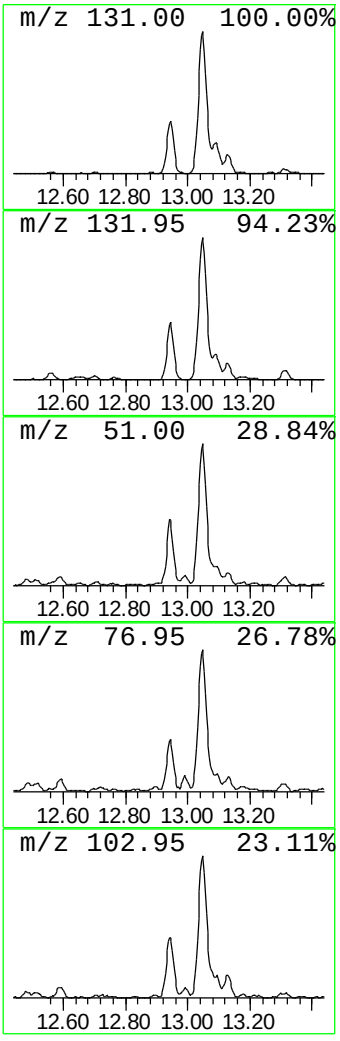
**********

Peak Number 11 Benzofuran, 2-methyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.94 | 6.97 ug/L | 289269 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 95 |
| 2 | Benzofuran, 7-methyl- | 132 | C9H8O | 017059-52-8 | 94 |
| 3 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 91 |
| 4 | 3-Phenyl-2-propyn-1-ol | 132 | C9H8O | 001504-58-1 | 91 |
| 5 | Benzofuran, 2-methyl- | 132 | C9H8O | 004265-25-2 | 83 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

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

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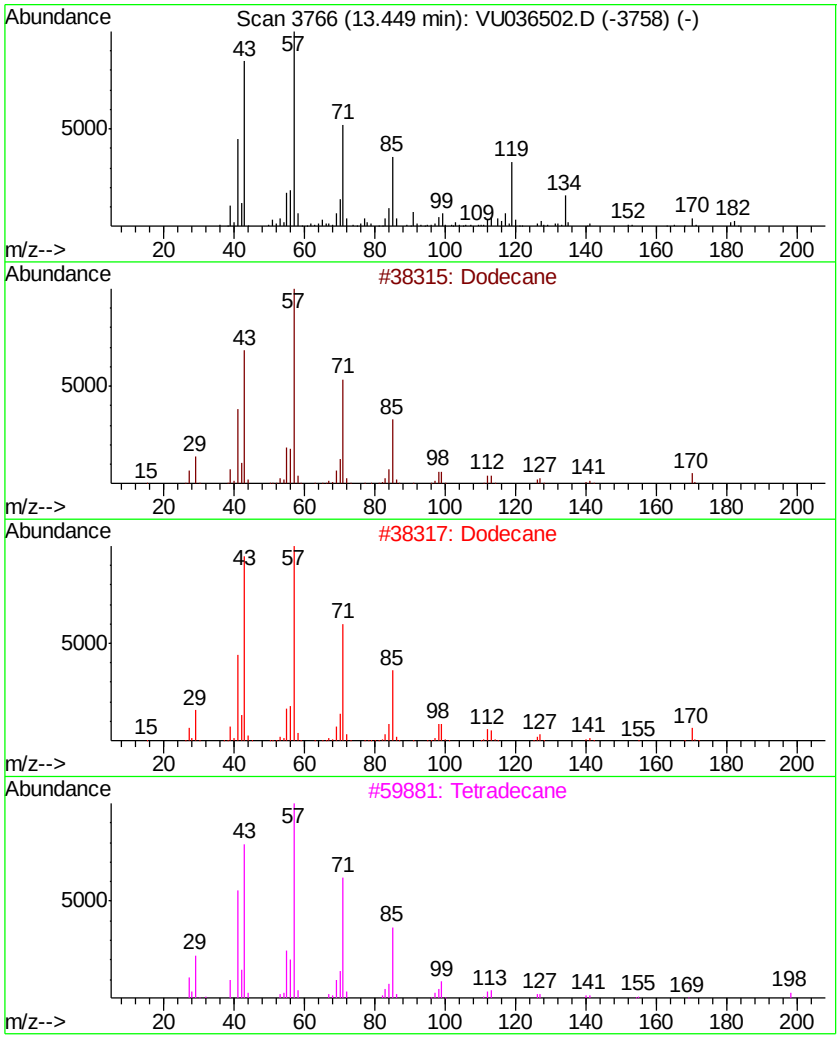
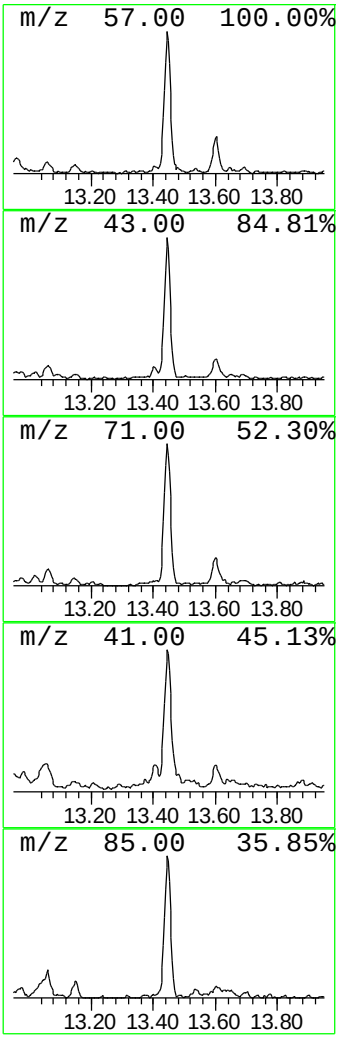
Peak Number 13 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.45 | 10.90 ug/L | 451928 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Dodecane | 170 | C12H26 | 000112-40-3 | 93 |
| 2 | Dodecane | 170 | C12H26 | 000112-40-3 | 70 |
| 3 | Tetradecane | 198 | C14H30 | 000629-59-4 | 58 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 58 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 58 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

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

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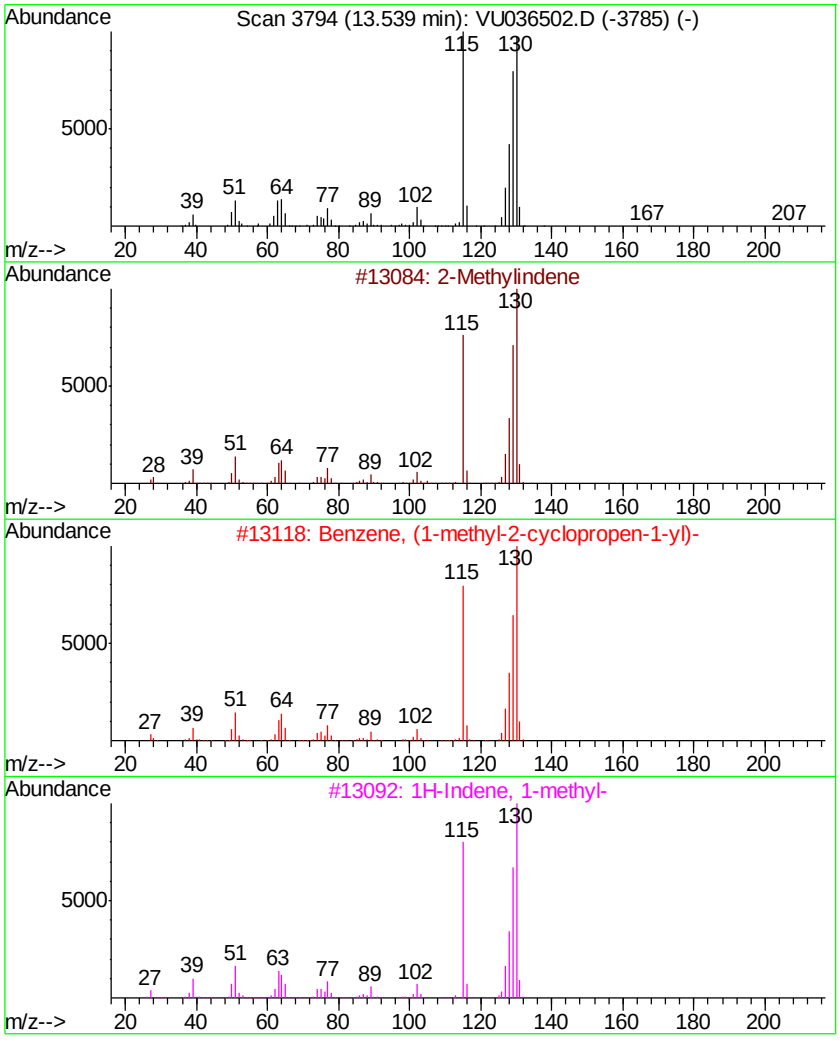
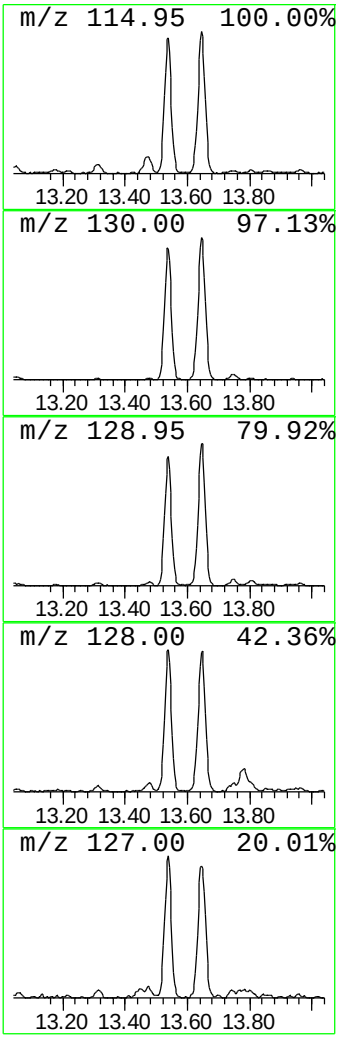
Peak Number 14 2-Methylindene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.54 | 12.66 ug/L | 525019 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Methylindene | 130 | C10H10 | 002177-47-1 | 97 |
| 2 | Benzene, (1-methyl-2-cyclopropen... | 130 | C10H10 | 065051-83-4 | 97 |
| 3 | 1H-Indene, 1-methyl- | 130 | C10H10 | 000767-59-9 | 96 |
| 4 | Benzene,1-methyl-1,2-propadienyl- | 130 | C10H10 | 022433-39-2 | 96 |
| 5 | 1H-Indene, 3-methyl- | 130 | C10H10 | 000767-60-2 | 95 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

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

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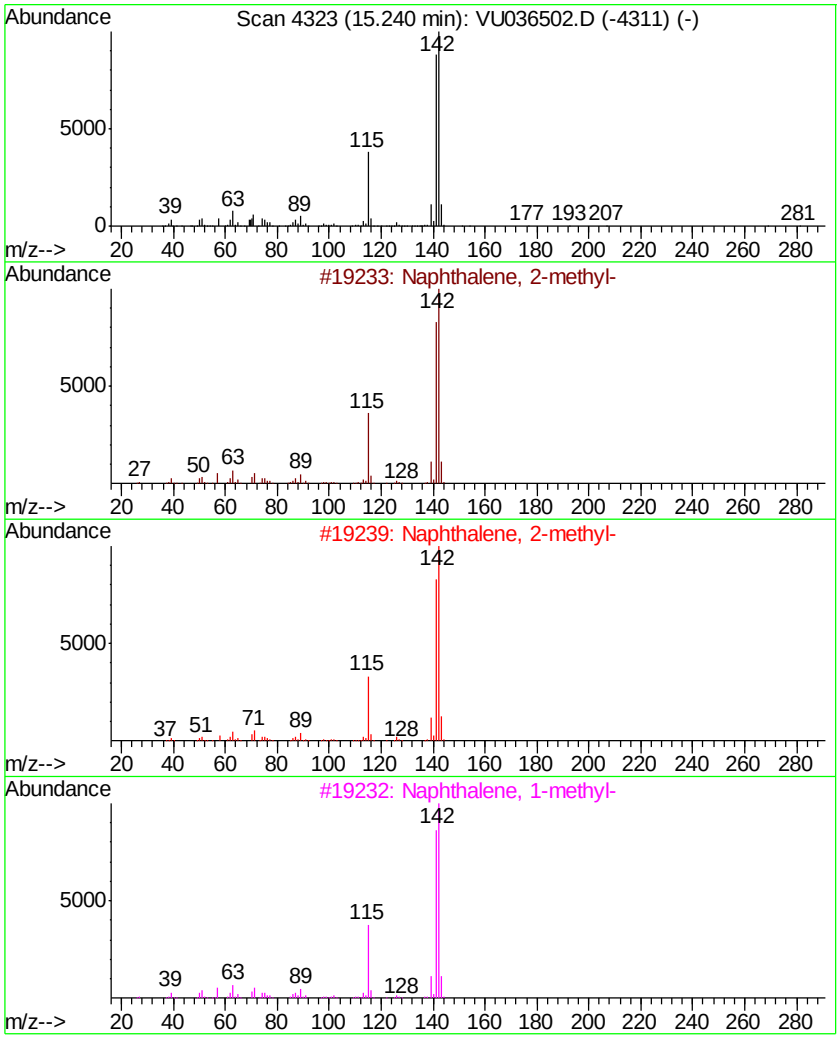
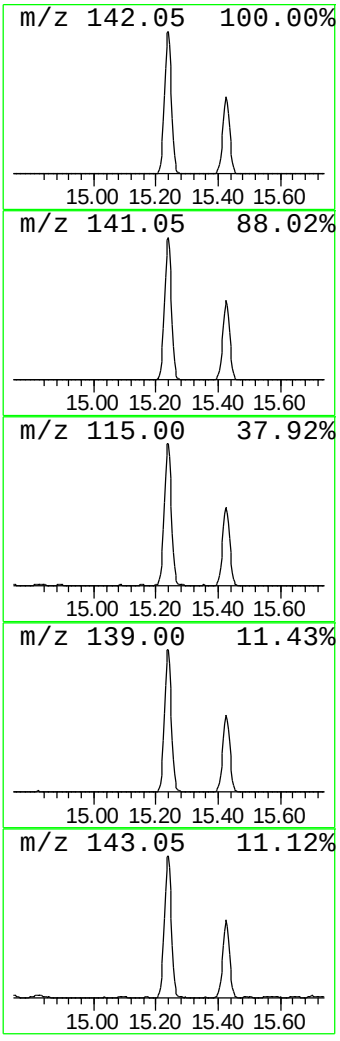
Peak Number 18 Naphthalene, 1-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.24 | 105.68 ug/L | 4383330 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 2 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 96 |
| 3 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 96 |
| 4 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 94 |
| 5 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

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

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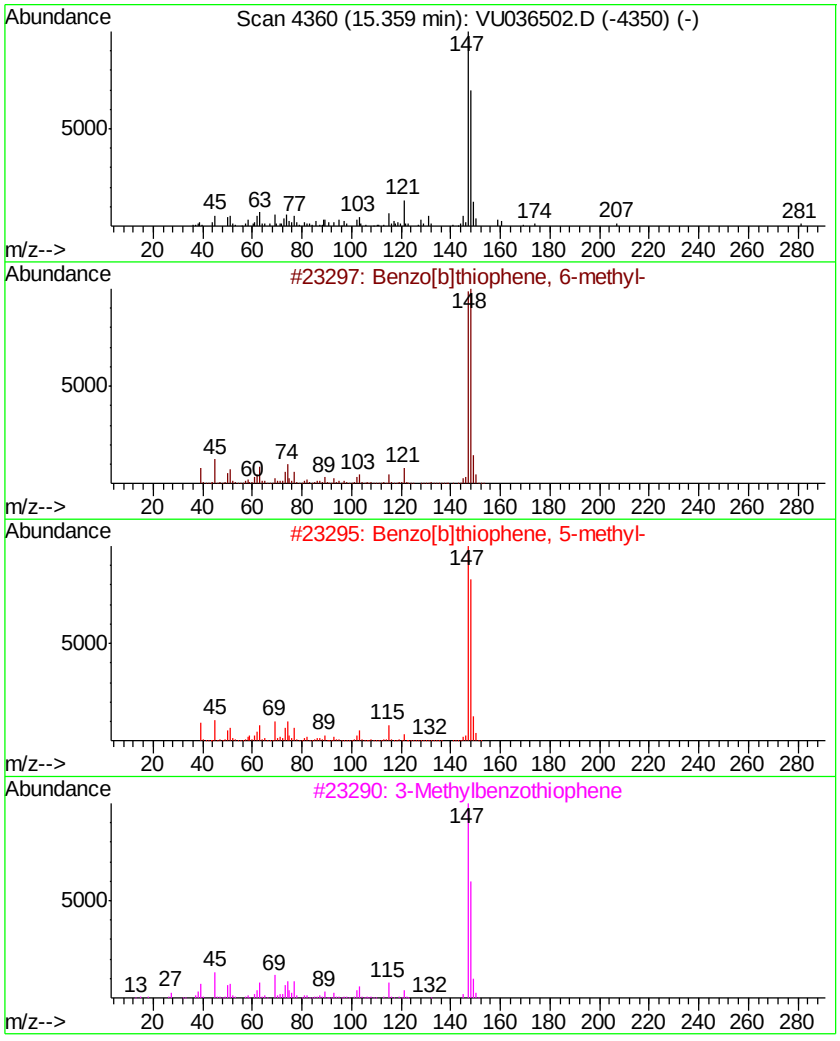
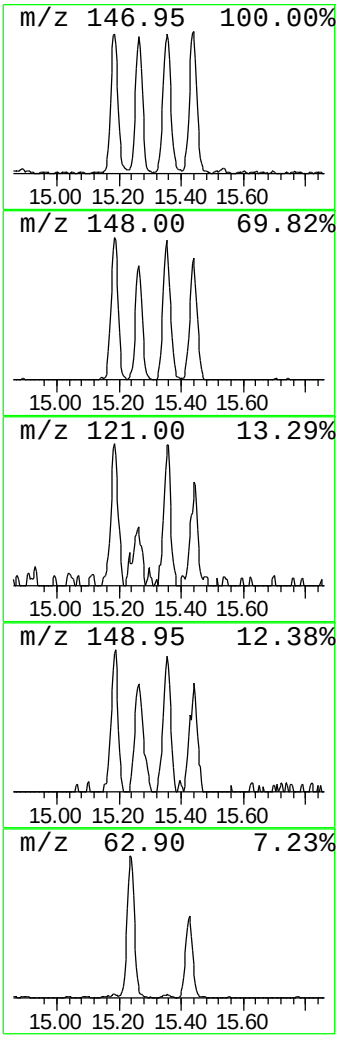
Peak Number 19 Benzo[b]thiophene, 6-methyl- Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.36 | 2.54 ug/L | 105444 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[b]thiophene, 6-methyl- | 148 | C9H8S | 016587-47-6 | 91 |
| 2 | Benzo[b]thiophene, 5-methyl- | 148 | C9H8S | 014315-14-1 | 90 |
| 3 | 3-Methylbenzothiophene | 148 | C9H8S | 001455-18-1 | 87 |
| 4 | 3-Methylbenzothiophene | 148 | C9H8S | 001455-18-1 | 87 |
| 5 | Benzo[b]thiophene, 4-methyl- | 148 | C9H8S | 014315-11-8 | 87 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

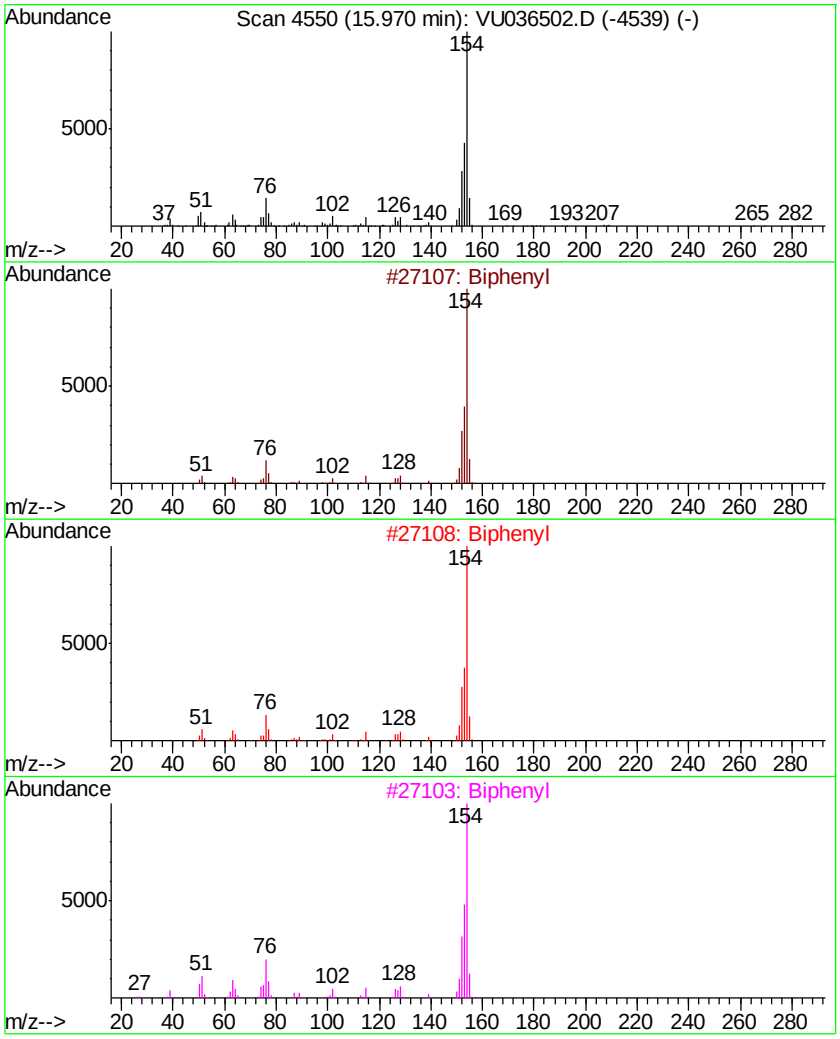
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

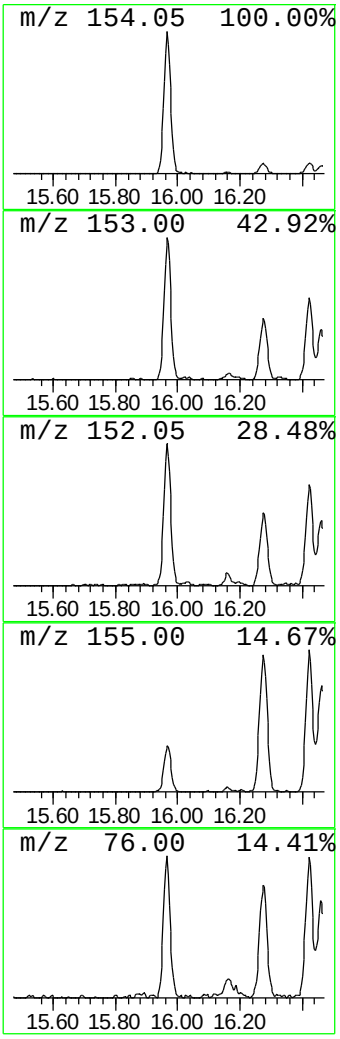
**********

Peak Number 21 Biphenyl Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.97 | 7.78 ug/L | 322790 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Biphenyl | 154 | C12H10 | 000092-52-4 | 95 |
| 2 | Biphenyl | 154 | C12H10 | 000092-52-4 | 95 |
| 3 | Biphenyl | 154 | C12H10 | 000092-52-4 | 93 |
| 4 | Naphthalene, 2-ethenyl- | 154 | C12H10 | 000827-54-3 | 81 |
| 5 | Biphenyl | 154 | C12H10 | 000092-52-4 | 76 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

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

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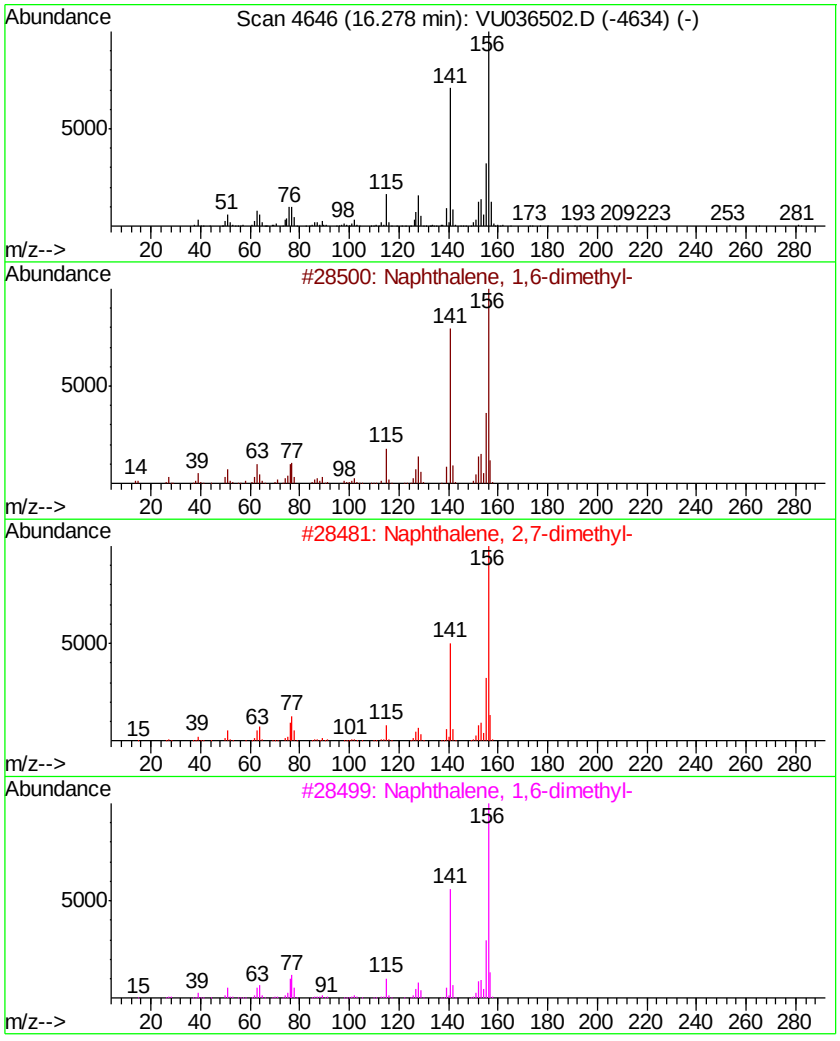
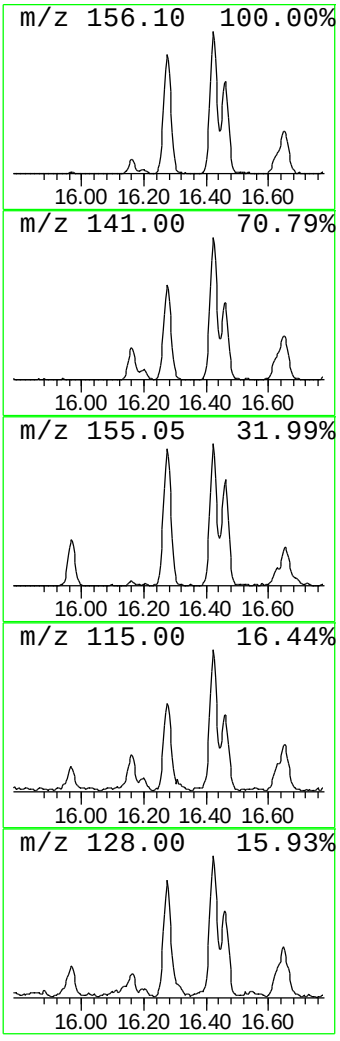
Peak Number 22 Naphthalene, 1,6-dimethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.28 | 16.42 ug/L | 680946 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 98 |
| 2 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 5 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

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

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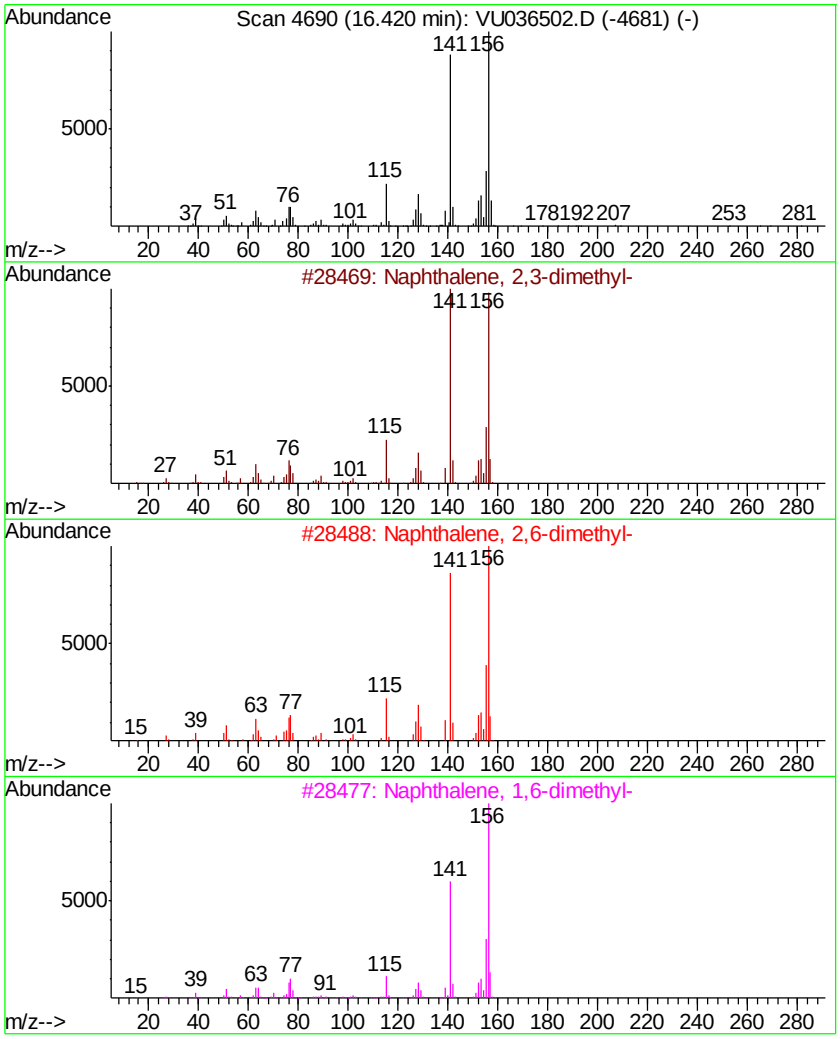
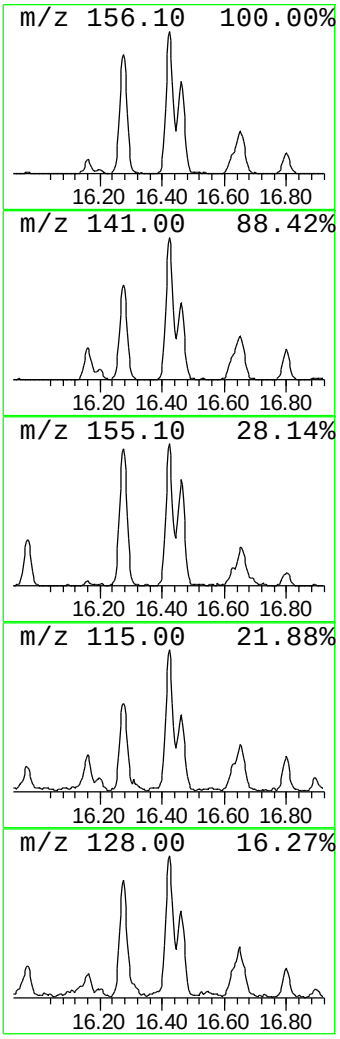
Peak Number 23 Naphthalene, 2,3-dimethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.42 | 16.67 ug/L | 691335 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 98 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 3 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 97 |
| 4 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 97 |
| 5 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 97 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

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

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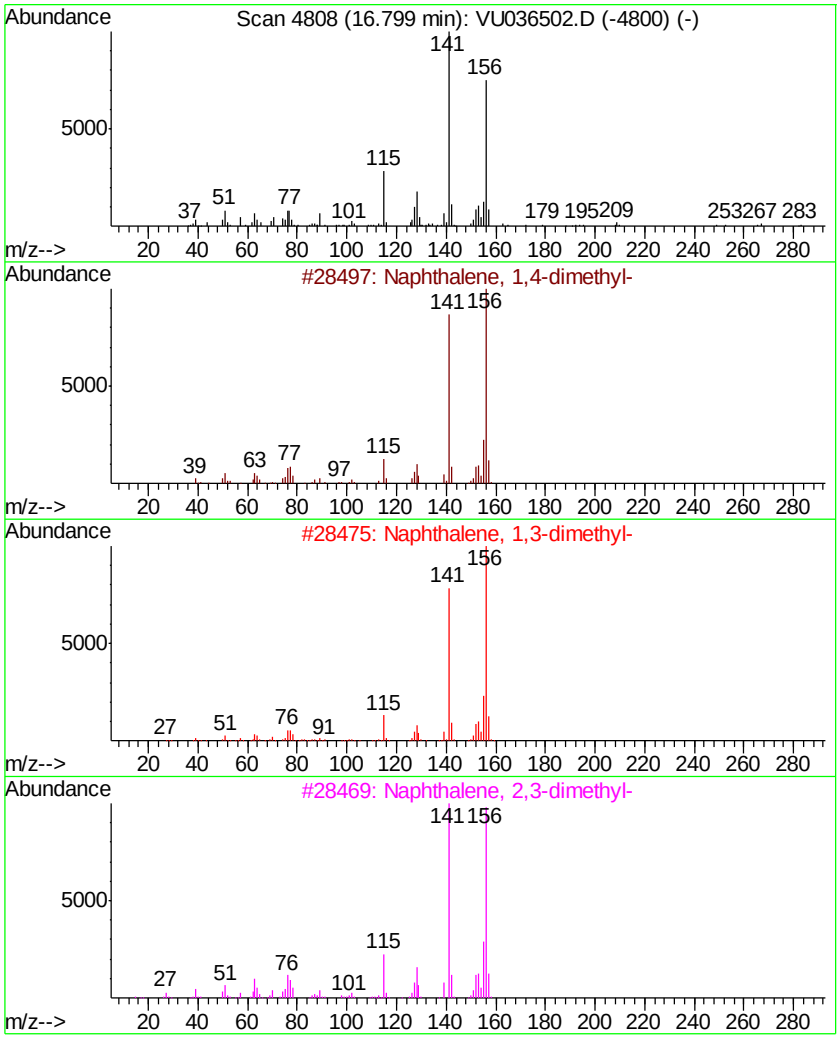
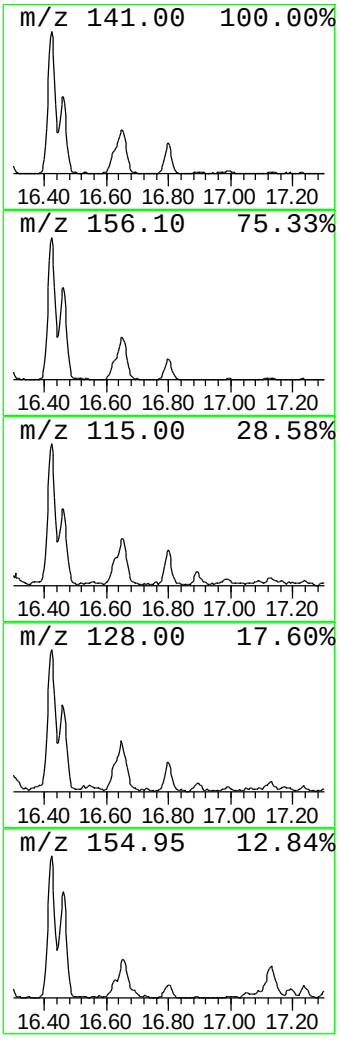
Peak Number 25 Naphthalene, 1,4-dimethyl- Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.80 | 2.98 ug/L | 123528 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,4-dimethyl- | 156 | C12H12 | 000571-58-4 | 94 |
| 2 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 94 |
| 3 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 93 |
| 4 | Naphthalene, 1,2-dimethyl- | 156 | C12H12 | 000573-98-8 | 91 |
| 5 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.M
Quant Title : VOC Analysis

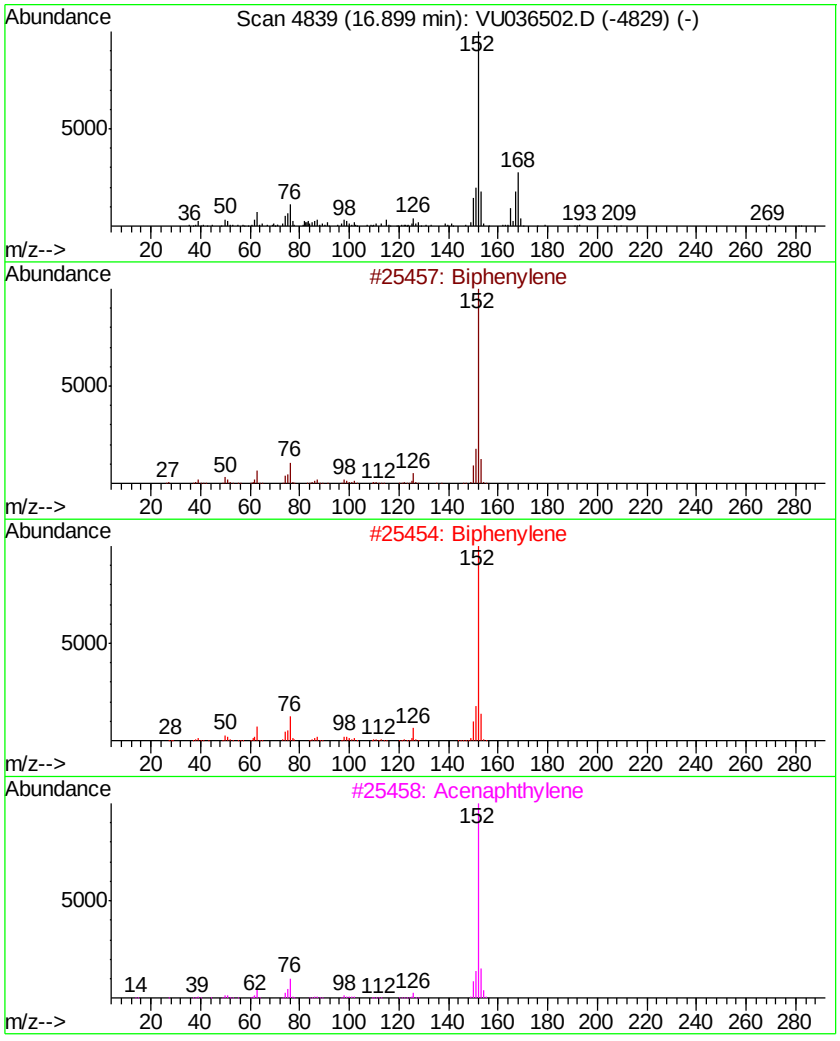
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

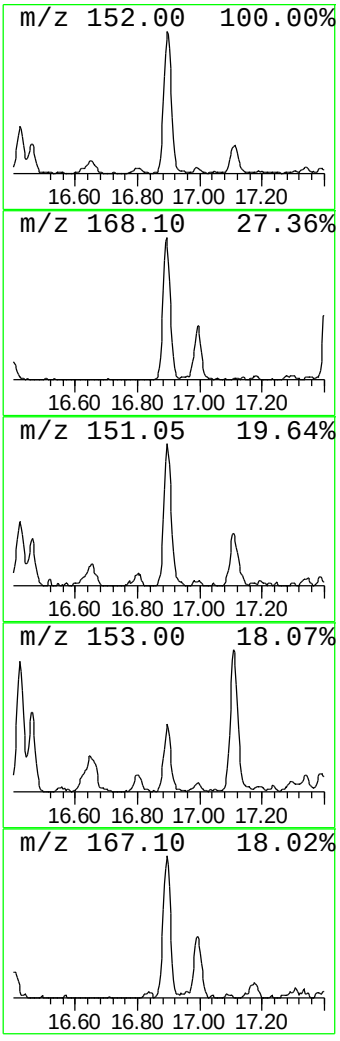
**********

Peak Number 26 Biphenylene Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.90 | 5.89 ug/L | 244213 | 1,4-Dichlorobenzene-d4 | 11.83 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Biphenylene | 152 | C12H8 | 000259-79-0 | 70 |
| 2 | Biphenylene | 152 | C12H8 | 000259-79-0 | 64 |
| 3 | Acenaphthylene | 152 | C12H8 | 000208-96-8 | 62 |
| 4 | 1-acenaphthenol, trifluoroacetat... | 266 | C14H9F3O2 | 1000376-45-2 | 58 |
| 5 | (6Balpha,7beta,11alpha,11aalpha)... | 334 | C25H18O | 1000241-69-8 | 53 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU011620\
Data File : VU036502.D
Acq On : 16 Jan 2020 15:27
Operator : JC/MD
Sample : L1109-11ME 20X
Misc : 5.09G/5.0mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GASH0ME

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM011420WMA.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 |
| Benzene, 1-ethyl-... | 11.02 | 10.9 | ug/L | 452906 | 3 | 11.83 | 2073870 | 50.0 |
| .alpha.-Methylsty... | 11.34 | 5.1 | ug/L | 211654 | 3 | 11.83 | 2073870 | 50.0 |
| Benzofuran | 11.75 | 21.4 | ug/L | 888181 | 3 | 11.83 | 2073870 | 50.0 |
| Indane | 12.11 | 6.2 | ug/L | 258117 | 3 | 11.83 | 2073870 | 50.0 |
| Indene | 12.33 | 73.9 | ug/L | 3065500 | 3 | 11.83 | 2073870 | 50.0 |
| Benzene, 1-ethyl-... | 12.59 | 2.5 | ug/L | 104062 | 3 | 11.83 | 2073870 | 50.0 |
| Benzofuran, 2-met... | 12.94 | 7.0 | ug/L | 289269 | 3 | 11.83 | 2073870 | 50.0 |
| (DEL) Alkane: Str... | 13.45 | 10.9 | ug/L | 451928 | 3 | 11.83 | 2073870 | 50.0 |
| 2-Methylindene | 13.54 | 12.7 | ug/L | 525019 | 3 | 11.83 | 2073870 | 50.0 |
| Naphthalene, 1-me... | 15.24 | 105.7 | ug/L | 4383330 | 3 | 11.83 | 2073870 | 50.0 |
| Benzo[b]thiophene... | 15.36 | 2.5 | ug/L | 105444 | 3 | 11.83 | 2073870 | 50.0 |
| Biphenyl | 15.97 | 7.8 | ug/L | 322790 | 3 | 11.83 | 2073870 | 50.0 |
| Naphthalene, 1,6-... | 16.28 | 16.4 | ug/L | 680946 | 3 | 11.83 | 2073870 | 50.0 |
| Naphthalene, 2,3-... | 16.42 | 16.7 | ug/L | 691335 | 3 | 11.83 | 2073870 | 50.0 |
| Naphthalene, 1,4-... | 16.80 | 3.0 | ug/L | 123528 | 3 | 11.83 | 2073870 | 50.0 |
| Biphenylene | 16.90 | 5.9 | ug/L | 244213 | 3 | 11.83 | 2073870 | 50.0 |