LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

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\SOMULM091919WMA.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 | 1.392 | 86 | 94 | 109 | rBV | 382738 | 407808 | 10.07% | 1.176% |
| 2 | 1.466 | 111 | 117 | 126 | rVV | 34760 | 40029 | 0.99% | 0.115% |
| 3 | 1.540 | 132 | 140 | 153 | rVB3 | 36929 | 58153 | 1.44% | 0.168% |
| 4 | 1.672 | 173 | 181 | 194 | rBV | 317446 | 404993 | 10.00% | 1.168% |
| 5 | 2.257 | 350 | 363 | 372 | rBV | 558318 | 862504 | 21.30% | 2.488% |
| 6 | 2.306 | 372 | 378 | 391 | rVB | 182527 | 279949 | 6.91% | 0.808% |
| 7 | 2.428 | 406 | 416 | 431 | rBV2 | 60435 | 110346 | 2.72% | 0.318% |
| 8 | 2.685 | 480 | 496 | 522 | rBV | 2250930 | 4050172 | 100.00% | 11.683% |
| 9 | 2.817 | 527 | 537 | 550 | rVV3 | 24138 | 59667 | 1.47% | 0.172% |
| 10 | 2.974 | 574 | 586 | 591 | rBV7 | 8148 | 14135 | 0.35% | 0.041% |
| 11 | 3.608 | 774 | 783 | 786 | rBV5 | 9117 | 14691 | 0.36% | 0.042% |
| 12 | 4.219 | 947 | 973 | 1007 | rBV6 | 251111 | 997133 | 24.62% | 2.876% |
| 13 | 4.649 | 1089 | 1107 | 1129 | rVV | 435727 | 1027459 | 25.37% | 2.964% |
| 14 | 5.315 | 1288 | 1314 | 1346 | rBV2 | 933020 | 2814913 | 69.50% | 8.120% |
| 15 | 5.775 | 1447 | 1457 | 1466 | rBV3 | 9204 | 17355 | 0.43% | 0.050% |
| 16 | 5.862 | 1470 | 1484 | 1513 | rBV | 772264 | 1527242 | 37.71% | 4.406% |
| 17 | 6.164 | 1563 | 1578 | 1599 | rBV | 692921 | 1360996 | 33.60% | 3.926% |
| 18 | 6.309 | 1608 | 1623 | 1642 | rBV2 | 632897 | 1282201 | 31.66% | 3.699% |
| 19 | 6.402 | 1646 | 1652 | 1671 | rVB2 | 30797 | 71498 | 1.77% | 0.206% |
| 20 | 6.563 | 1694 | 1702 | 1718 | rVB2 | 21475 | 44355 | 1.10% | 0.128% |
| 21 | 7.161 | 1875 | 1888 | 1892 | rBV6 | 10267 | 17834 | 0.44% | 0.051% |
| 22 | 7.206 | 1892 | 1902 | 1920 | rVV2 | 351209 | 618530 | 15.27% | 1.784% |
| 23 | 7.440 | 1960 | 1975 | 1991 | rBV | 185026 | 342183 | 8.45% | 0.987% |
| 24 | 7.543 | 1991 | 2007 | 2021 | rVV | 1282902 | 2242137 | 55.36% | 6.468% |
| 25 | 7.617 | 2021 | 2030 | 2043 | rVV | 126446 | 242416 | 5.99% | 0.699% |
| 26 | 7.688 | 2045 | 2052 | 2058 | rVB5 | 11373 | 18581 | 0.46% | 0.054% |
| 27 | 7.829 | 2078 | 2096 | 2108 | rBV | 242045 | 444869 | 10.98% | 1.283% |
| 28 | 7.894 | 2108 | 2116 | 2132 | rVB2 | 72371 | 148685 | 3.67% | 0.429% |
| 29 | 8.212 | 2206 | 2215 | 2229 | rBV3 | 40648 | 74967 | 1.85% | 0.216% |
| 30 | 8.331 | 2229 | 2252 | 2277 | rBV7 | 752545 | 2061519 | 50.90% | 5.947% |
| 31 | 8.521 | 2307 | 2311 | 2323 | rVB4 | 15979 | 23538 | 0.58% | 0.068% |
| 32 | 8.582 | 2323 | 2330 | 2338 | rBV6 | 14849 | 23993 | 0.59% | 0.069% |
| 33 | 8.887 | 2417 | 2425 | 2434 | rVB3 | 25001 | 37487 | 0.93% | 0.108% |
| 34 | 9.013 | 2454 | 2464 | 2469 | rBV2 | 27559 | 52468 | 1.30% | 0.151% |

LSC Area Percent Report

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Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

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\SOMULM091919WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.067 | 2470 | 2481 | 2502 | rVB | 1101827 | 1828749 | 45.15% | 5.275% |
| 36 | 9.231 | 2522 | 2532 | 2541 | rBV | 44897 | 79922 | 1.97% | 0.231% |
| 37 | 9.350 | 2559 | 2569 | 2583 | rBV | 134948 | 249596 | 6.16% | 0.720% |
| 38 | 9.424 | 2583 | 2592 | 2617 | rVB2 | 71085 | 147357 | 3.64% | 0.425% |
| 39 | 9.588 | 2634 | 2643 | 2651 | rBV3 | 26936 | 45195 | 1.12% | 0.130% |
| 40 | 9.694 | 2665 | 2676 | 2684 | rBV5 | 16151 | 32076 | 0.79% | 0.093% |
| 41 | 9.759 | 2684 | 2696 | 2705 | rBV2 | 107363 | 181409 | 4.48% | 0.523% |
| 42 | 9.906 | 2733 | 2742 | 2744 | rBV4 | 38570 | 47557 | 1.17% | 0.137% |
| 43 | 10.019 | 2767 | 2777 | 2787 | rVV6 | 37682 | 72246 | 1.78% | 0.208% |
| 44 | 10.064 | 2788 | 2791 | 2805 | rVB5 | 14117 | 20451 | 0.50% | 0.059% |
| 45 | 10.141 | 2805 | 2815 | 2825 | rVB8 | 13280 | 27311 | 0.67% | 0.079% |
| 46 | 10.305 | 2851 | 2866 | 2870 | rBV7 | 16636 | 32538 | 0.80% | 0.094% |
| 47 | 10.434 | 2896 | 2906 | 2911 | rVV10 | 17373 | 33333 | 0.82% | 0.096% |
| 48 | 10.466 | 2912 | 2916 | 2925 | rVB8 | 16115 | 24626 | 0.61% | 0.071% |
| 49 | 10.569 | 2938 | 2948 | 2956 | rBV2 | 21462 | 38399 | 0.95% | 0.111% |
| 50 | 10.659 | 2968 | 2976 | 2991 | rBV | 78287 | 162653 | 4.02% | 0.469% |
| 51 | 10.749 | 2991 | 3004 | 3010 | rVV2 | 64807 | 126658 | 3.13% | 0.365% |
| 52 | 10.791 | 3011 | 3017 | 3028 | rVB4 | 64478 | 99960 | 2.47% | 0.288% |
| 53 | 10.900 | 3043 | 3051 | 3056 | rBV7 | 11359 | 18776 | 0.46% | 0.054% |
| 54 | 10.948 | 3058 | 3066 | 3085 | rVB2 | 57717 | 114471 | 2.83% | 0.330% |
| 55 | 11.125 | 3105 | 3121 | 3146 | rVB | 210054 | 380641 | 9.40% | 1.098% |
| 56 | 11.244 | 3150 | 3158 | 3168 | rBV2 | 30460 | 58693 | 1.45% | 0.169% |
| 57 | 11.376 | 3194 | 3199 | 3206 | rVB5 | 13008 | 15163 | 0.37% | 0.044% |
| 58 | 11.459 | 3214 | 3225 | 3243 | rBV | 1025108 | 1643701 | 40.58% | 4.742% |
| 59 | 11.550 | 3245 | 3253 | 3262 | rVB | 89473 | 131051 | 3.24% | 0.378% |
| 60 | 11.746 | 3304 | 3314 | 3321 | rBV5 | 95363 | 186936 | 4.62% | 0.539% |
| 61 | 11.836 | 3332 | 3342 | 3365 | rVB | 1182864 | 2021600 | 49.91% | 5.832% |
| 62 | 12.003 | 3388 | 3394 | 3400 | rBV4 | 29089 | 41499 | 1.02% | 0.120% |
| 63 | 12.125 | 3425 | 3432 | 3436 | rBV | 27353 | 42248 | 1.04% | 0.122% |
| 64 | 12.228 | 3460 | 3464 | 3472 | rVB | 37132 | 47561 | 1.17% | 0.137% |
| 65 | 12.337 | 3490 | 3498 | 3503 | rBV4 | 29867 | 50529 | 1.25% | 0.146% |
| 66 | 12.476 | 3531 | 3541 | 3551 | rBV10 | 32054 | 80463 | 1.99% | 0.232% |
| 67 | 12.591 | 3567 | 3577 | 3582 | rBV6 | 38738 | 66301 | 1.64% | 0.191% |
| 68 | 12.685 | 3598 | 3606 | 3616 | rBV | 53648 | 98597 | 2.43% | 0.284% |
| 69 | 12.768 | 3625 | 3632 | 3638 | rBV2 | 30349 | 47569 | 1.17% | 0.137% |
| 70 | 12.942 | 3681 | 3686 | 3699 | rVB3 | 57370 | 87886 | 2.17% | 0.254% |
| 71 | 13.012 | 3700 | 3708 | 3715 | rBV5 | 31831 | 53318 | 1.32% | 0.154% |

LSC Area Percent Report

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Sample : K4932-17RE
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

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\SOMULM091919WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 13.061 | 3718 | 3723 | 3728 | rBV2 | 25273 | 33059 | 0.82% | 0.095% |
| 73 | 13.102 | 3729 | 3736 | 3750 | rVV3 | 113013 | 195031 | 4.82% | 0.563% |
| 74 | 13.215 | 3766 | 3771 | 3777 | rBV | 20258 | 26447 | 0.65% | 0.076% |
| 75 | 13.260 | 3779 | 3785 | 3793 | rVV6 | 39954 | 66405 | 1.64% | 0.192% |
| 76 | 13.437 | 3833 | 3840 | 3847 | rVB4 | 41229 | 60983 | 1.51% | 0.176% |
| 77 | 13.488 | 3847 | 3856 | 3862 | rBV3 | 64429 | 106855 | 2.64% | 0.308% |
| 78 | 13.723 | 3920 | 3929 | 3937 | rVB | 177001 | 263686 | 6.51% | 0.761% |
| 79 | 13.839 | 3955 | 3965 | 3970 | rBV5 | 70353 | 125290 | 3.09% | 0.361% |
| 80 | 13.935 | 3986 | 3995 | 4003 | rBV7 | 58448 | 108191 | 2.67% | 0.312% |
| 81 | 14.125 | 4047 | 4054 | 4070 | rBV5 | 70003 | 145574 | 3.59% | 0.420% |
| 82 | 14.328 | 4105 | 4117 | 4138 | rVB4 | 126992 | 295907 | 7.31% | 0.854% |
| 83 | 14.585 | 4191 | 4197 | 4210 | rBV9 | 23470 | 43948 | 1.09% | 0.127% |
| 84 | 14.659 | 4213 | 4220 | 4234 | rVV6 | 50081 | 101147 | 2.50% | 0.292% |
| 85 | 14.845 | 4269 | 4278 | 4292 | rBV4 | 181391 | 445900 | 11.01% | 1.286% |
| 86 | 14.990 | 4317 | 4323 | 4331 | rBV5 | 38965 | 61438 | 1.52% | 0.177% |
| 87 | 15.045 | 4333 | 4340 | 4344 | rBV | 54031 | 84649 | 2.09% | 0.244% |
| 88 | 15.398 | 4441 | 4450 | 4459 | rBV6 | 37479 | 81120 | 2.00% | 0.234% |
| 89 | 15.565 | 4497 | 4502 | 4519 | rVB4 | 98488 | 223630 | 5.52% | 0.645% |
| 90 | 15.646 | 4521 | 4527 | 4535 | rBV7 | 47960 | 80810 | 2.00% | 0.233% |
| 91 | 15.787 | 4562 | 4571 | 4578 | rBV5 | 77965 | 146488 | 3.62% | 0.423% |
| 92 | 15.897 | 4595 | 4605 | 4616 | rBV2 | 202788 | 377452 | 9.32% | 1.089% |
| 93 | 16.041 | 4642 | 4650 | 4656 | rBV | 231966 | 365822 | 9.03% | 1.055% |
| 94 | 16.077 | 4657 | 4661 | 4680 | rVB2 | 155733 | 257929 | 6.37% | 0.744% |
| 95 | 16.517 | 4790 | 4798 | 4811 | rBV2 | 87688 | 157520 | 3.89% | 0.454% |
| 96 | 16.749 | 4864 | 4870 | 4881 | rVB | 63557 | 96777 | 2.39% | 0.279% |
| 97 | 16.951 | 4928 | 4933 | 4940 | rVB2 | 84585 | 110662 | 2.73% | 0.319% |
| 98 | 16.996 | 4941 | 4947 | 4958 | rVB3 | 87157 | 135614 | 3.35% | 0.391% |
| 99 | 17.147 | 4988 | 4994 | 5005 | rVB | 93967 | 134907 | 3.33% | 0.389% |
| 100 | 17.208 | 5006 | 5013 | 5021 | rBV3 | 64603 | 100958 | 2.49% | 0.291% |

Sum of corrected areas: 34666044

LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
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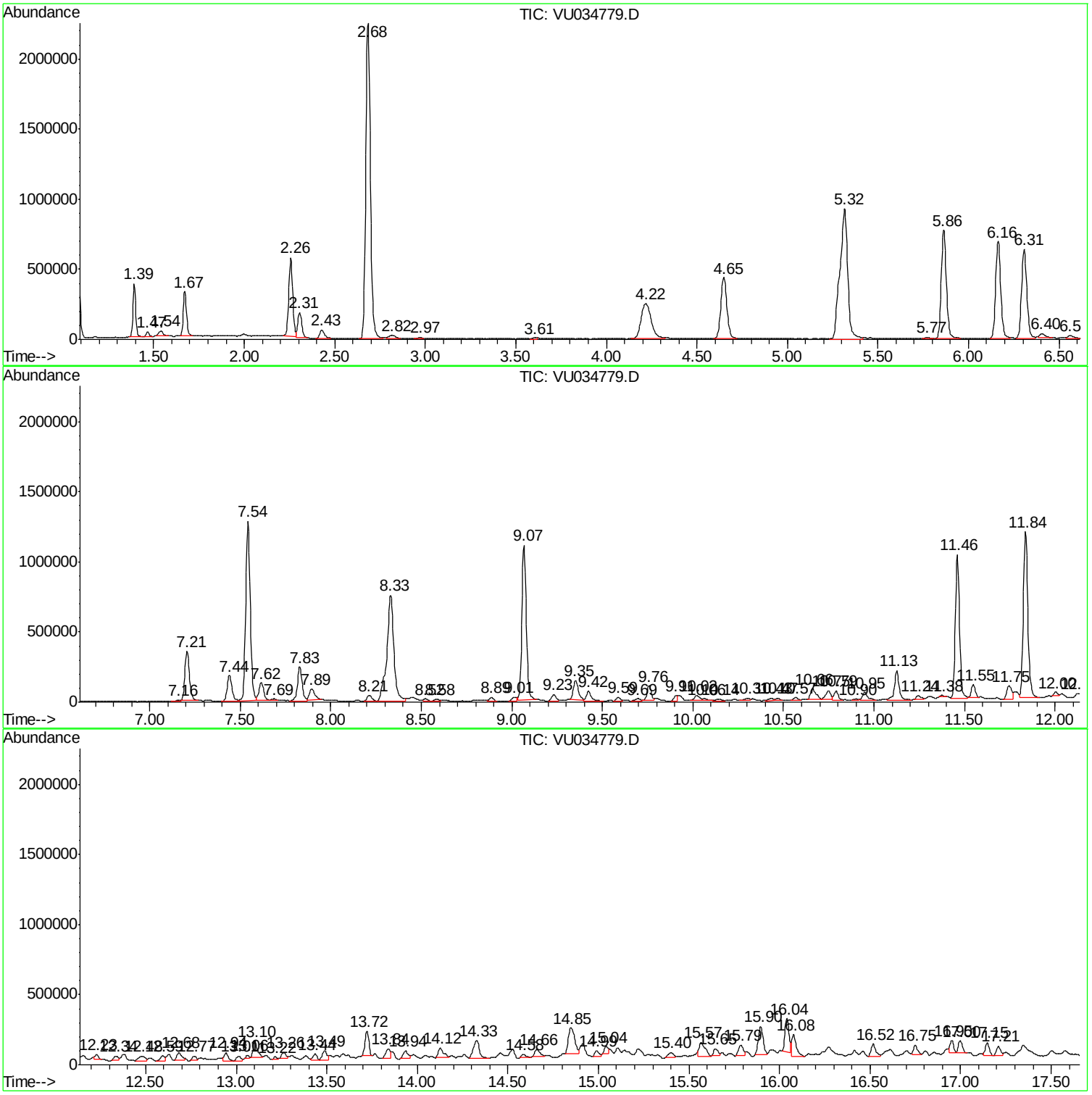
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

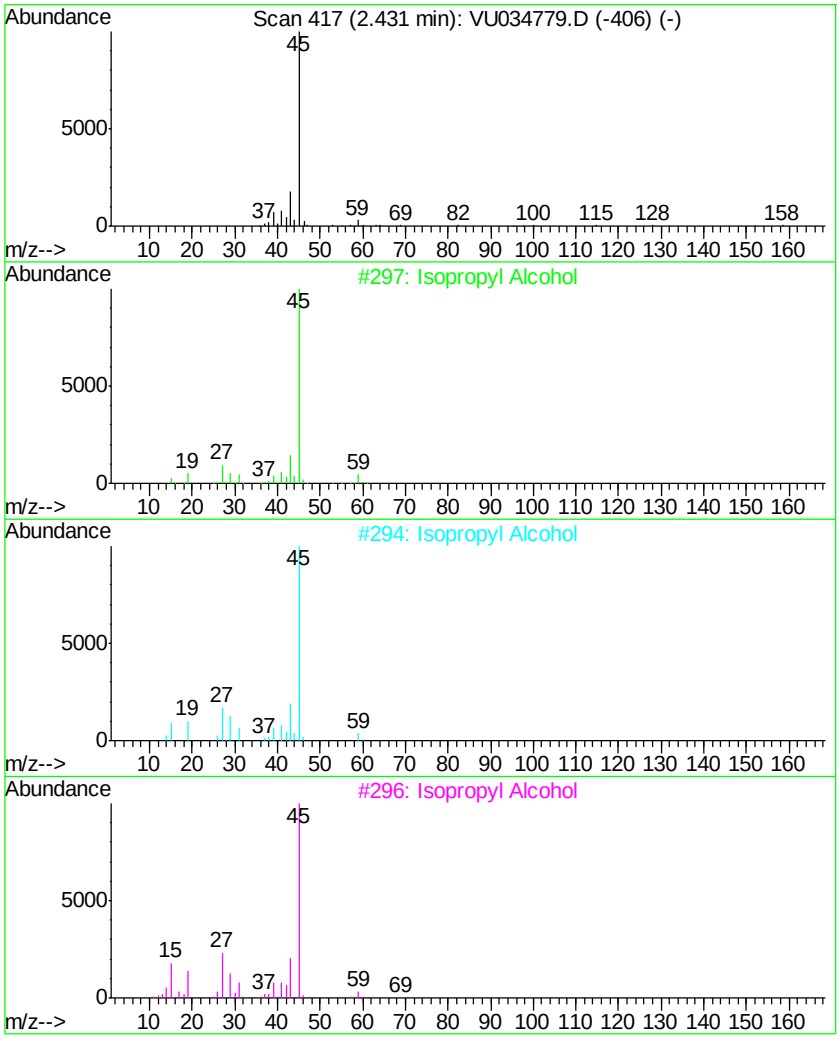
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

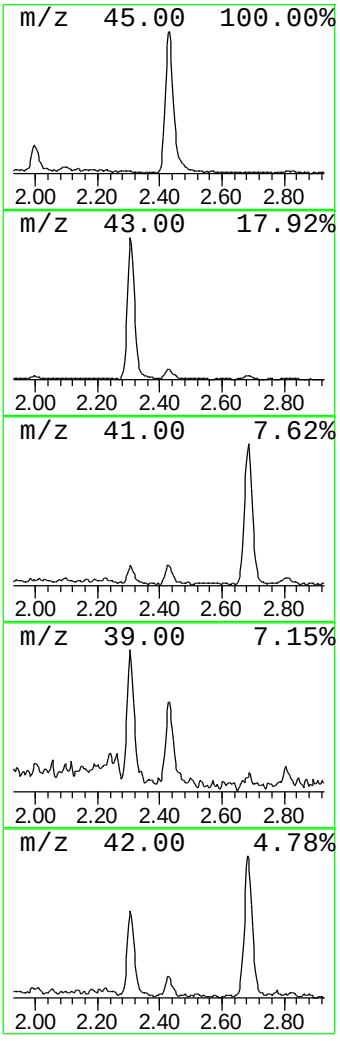
**********

Peak Number 1 Isopropyl Alcohol Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.43 | 3.61 ug/L | 110346 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 80 |
| 2 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 72 |
| 3 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 50 |
| 4 | Butane, 1-methoxy-2-methyl- | 102 | C6H14O | 062016-48-2 | 9 |
| 5 | Isopropyl Alcohol | 60 | C3H8O | 000067-63-0 | 9 |



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Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

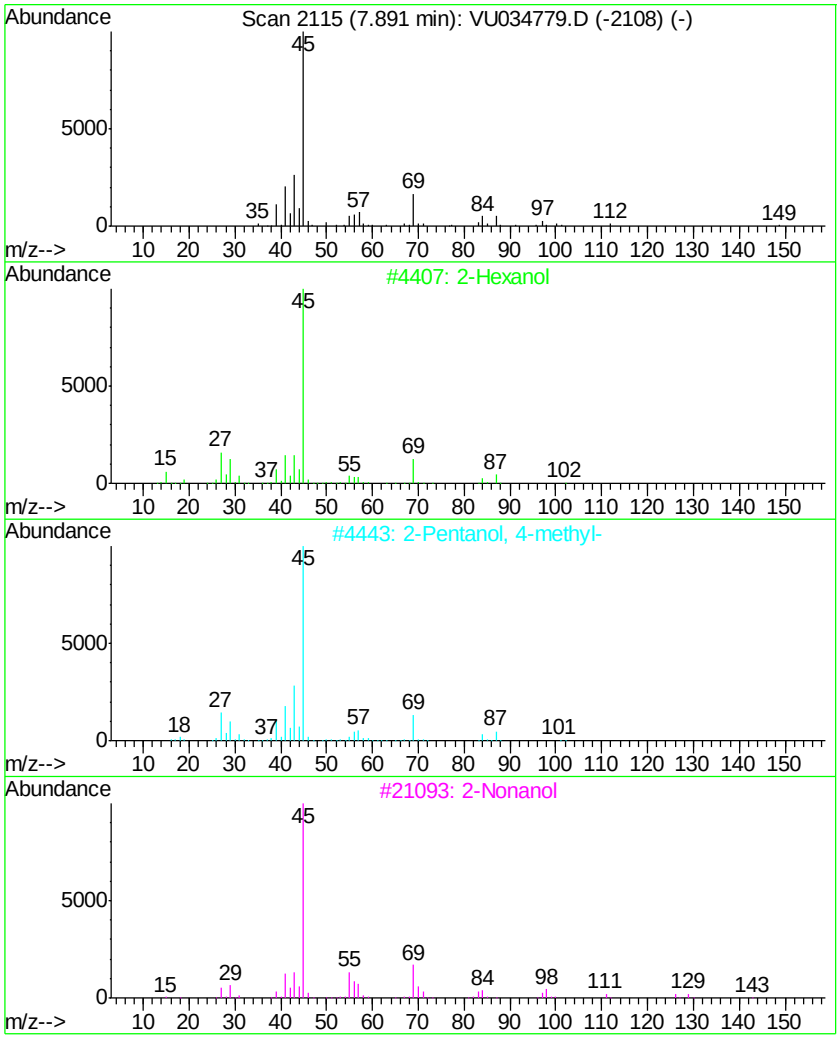
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

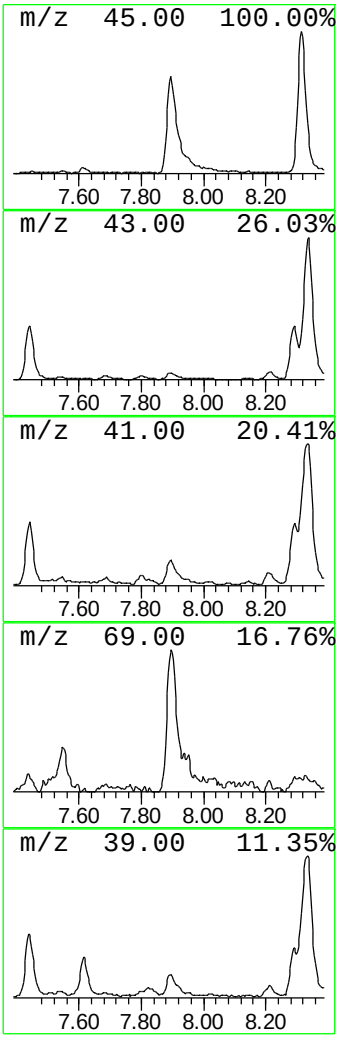
**********

Peak Number 3 2-Hexanol Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.89 | 4.07 ug/L | 148685 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Hexanol | 102 | C6H14O | 000626-93-7 | 78 |
| 2 | 2-Pentanol, 4-methyl- | 102 | C6H14O | 000108-11-2 | 78 |
| 3 | 2-Nonanol | 144 | C9H20O | 000628-99-9 | 78 |
| 4 | 2-Hexanol | 102 | C6H14O | 000626-93-7 | 78 |
| 5 | 2-Hexanol | 102 | C6H14O | 000626-93-7 | 78 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

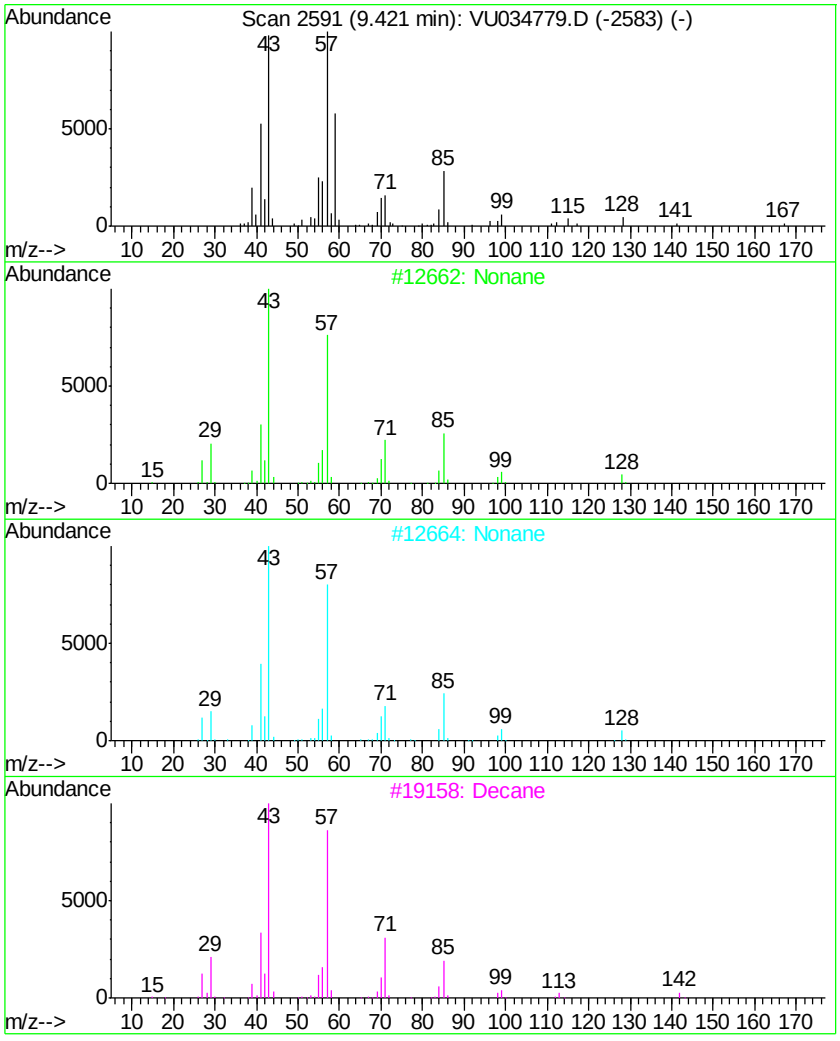
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

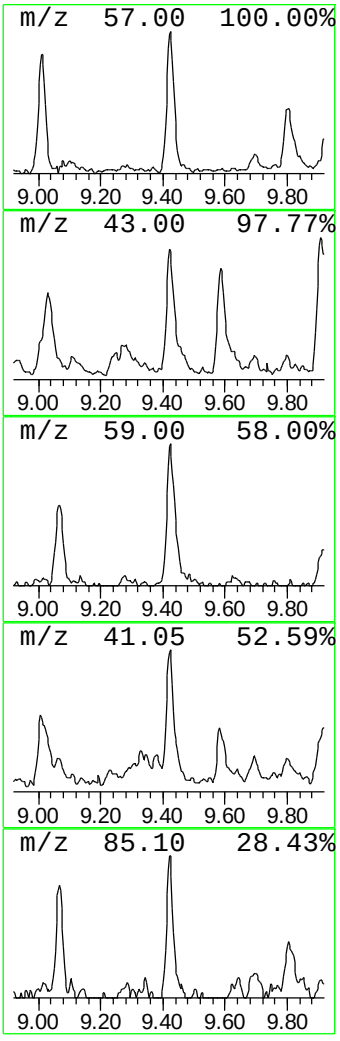
**********

Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.42 | 4.03 ug/L | 147357 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane | 128 | C9H20 | 000111-84-2 | 64 |
| 2 | Nonane | 128 | C9H20 | 000111-84-2 | 64 |
| 3 | Decane | 142 | C10H22 | 000124-18-5 | 47 |
| 4 | Undecane | 156 | C11H24 | 001120-21-4 | 47 |
| 5 | Undecane | 156 | C11H24 | 001120-21-4 | 47 |



Library Search Compound Report

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Data File : VU034779.D
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Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

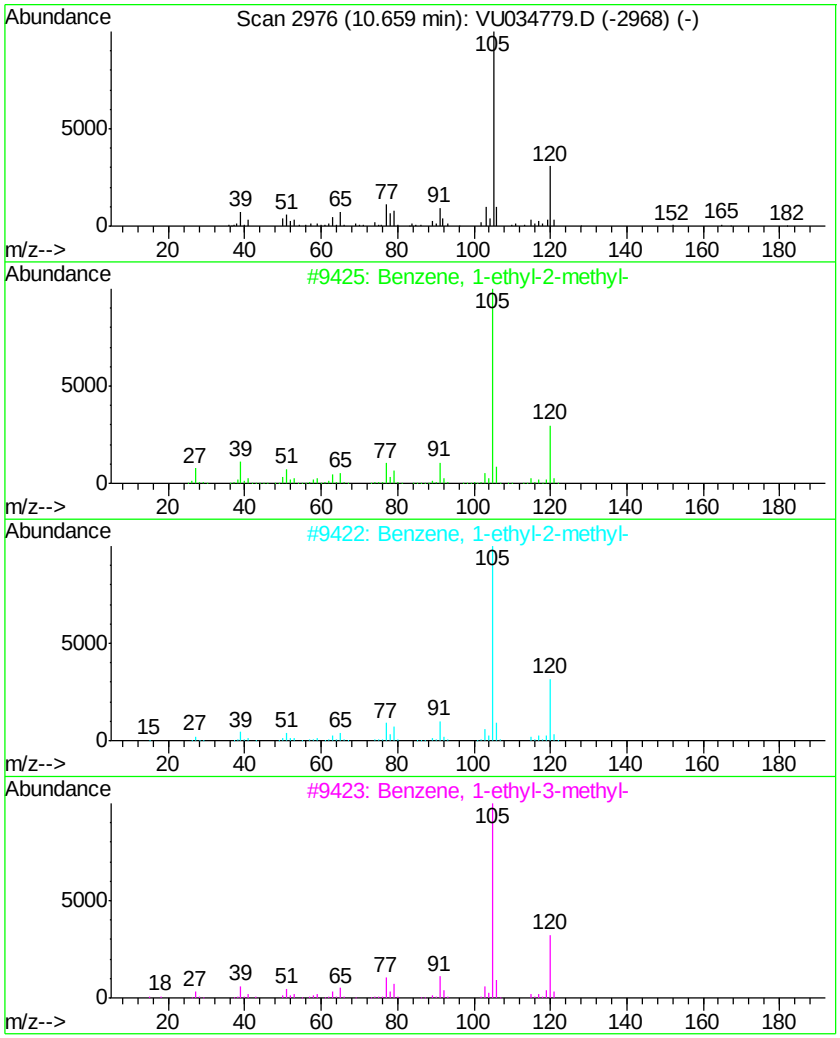
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

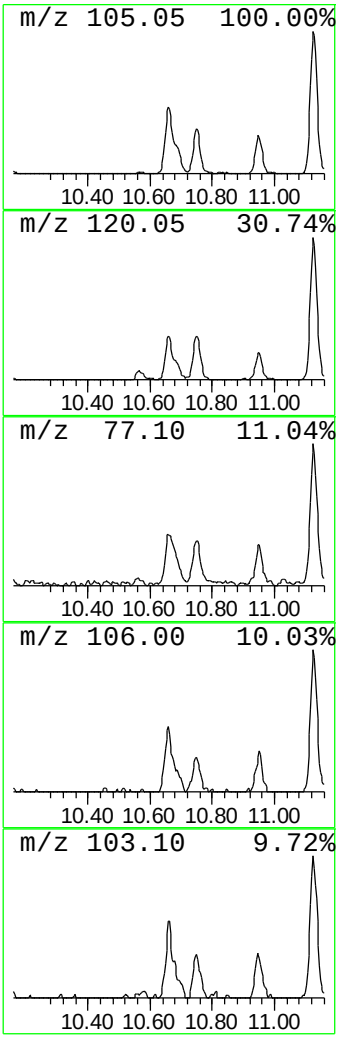
**********

Peak Number 5 Benzene, 1-ethyl-2-methyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.66 | 4.95 ug/L | 162653 | 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-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |
| 4 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |
| 5 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

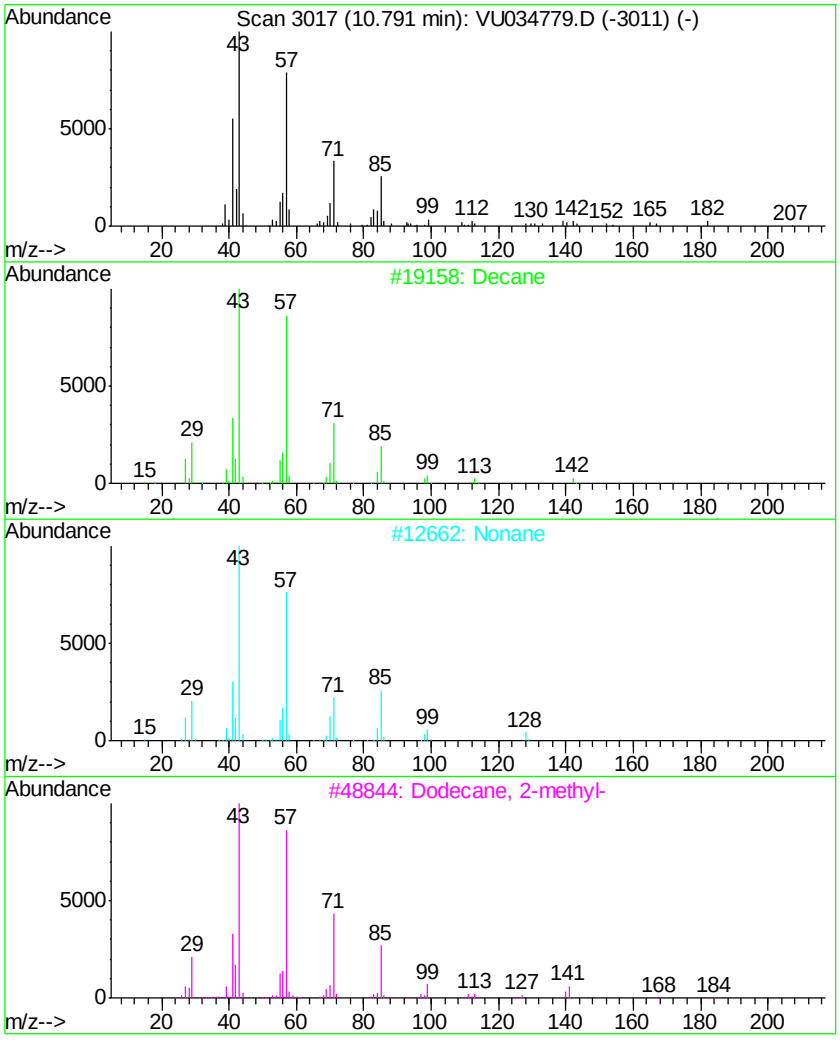
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

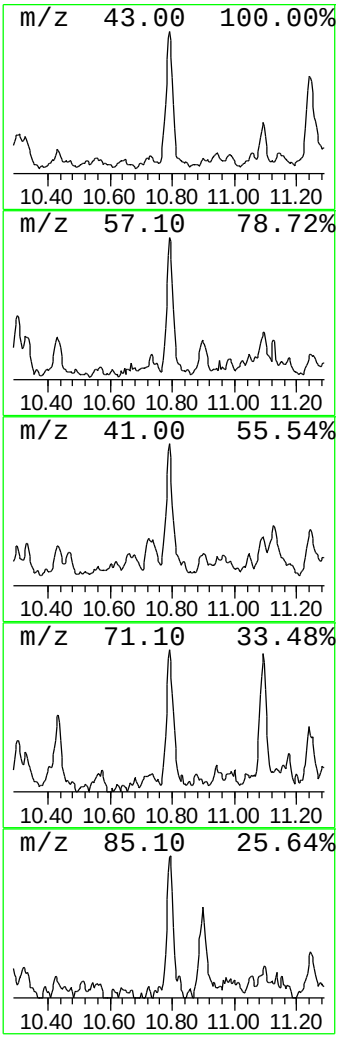
**********

Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.79 | 3.04 ug/L | 99960 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane | 142 | C10H22 | 000124-18-5 | 83 |
| 2 | Nonane | 128 | C9H20 | 000111-84-2 | 72 |
| 3 | Dodecane, 2-methyl- | 184 | C13H28 | 001560-97-0 | 72 |
| 4 | Decane, 2,9-dimethyl- | 170 | C12H26 | 001002-17-1 | 72 |
| 5 | Oxalic acid, isohexyl pentyl ester | 244 | C13H24O4 | 1000309-32-8 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

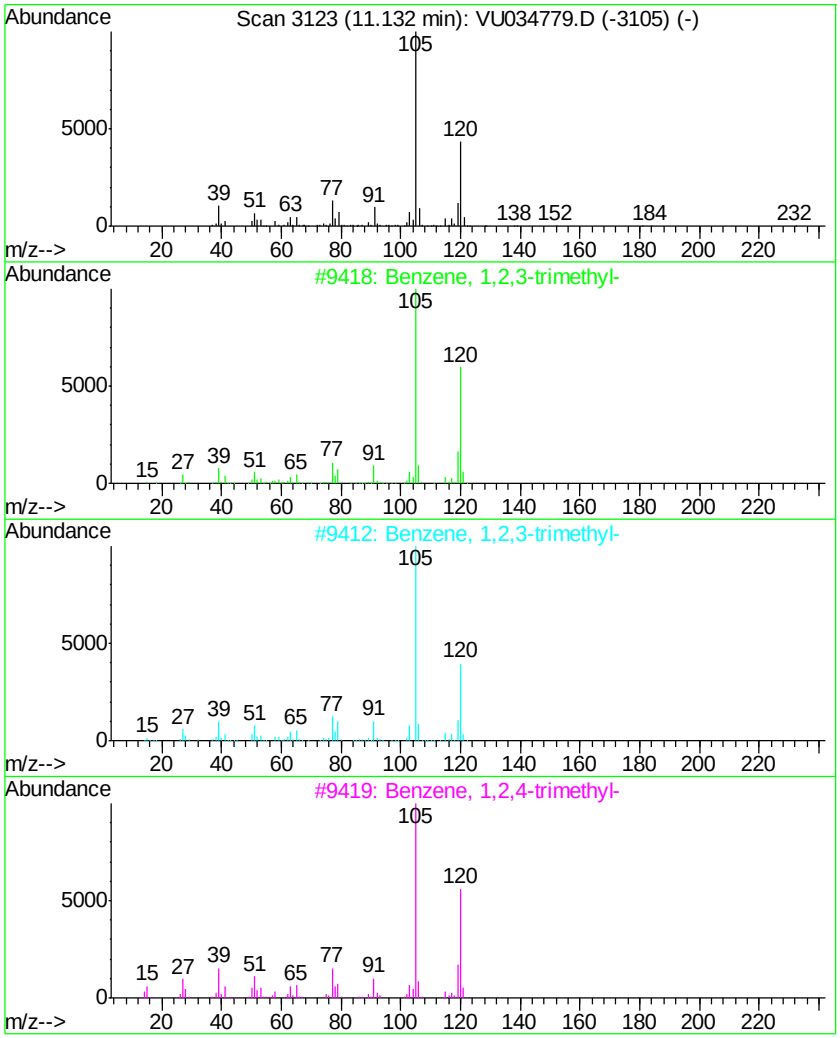
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

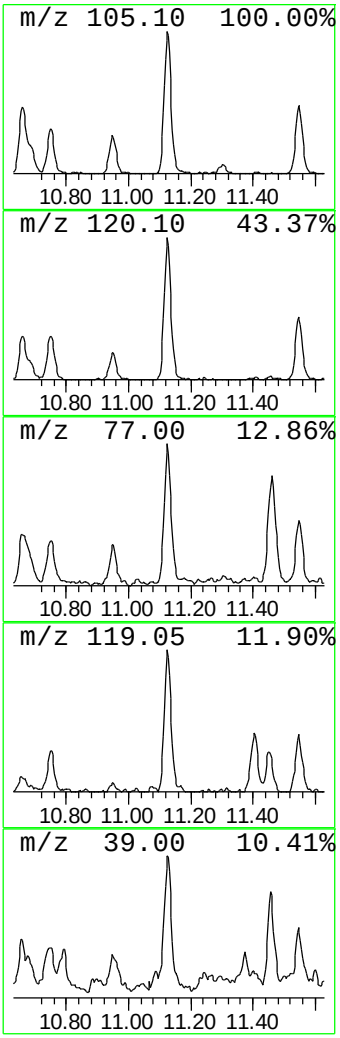
**********

Peak Number 9 Benzene, 1,2,3-trimethyl- Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.13 | 11.58 ug/L | 380641 | 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 | 97 |
| 2 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 97 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 95 |
| 4 | Mesitylene | 120 | C9H12 | 000108-67-8 | 95 |
| 5 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 95 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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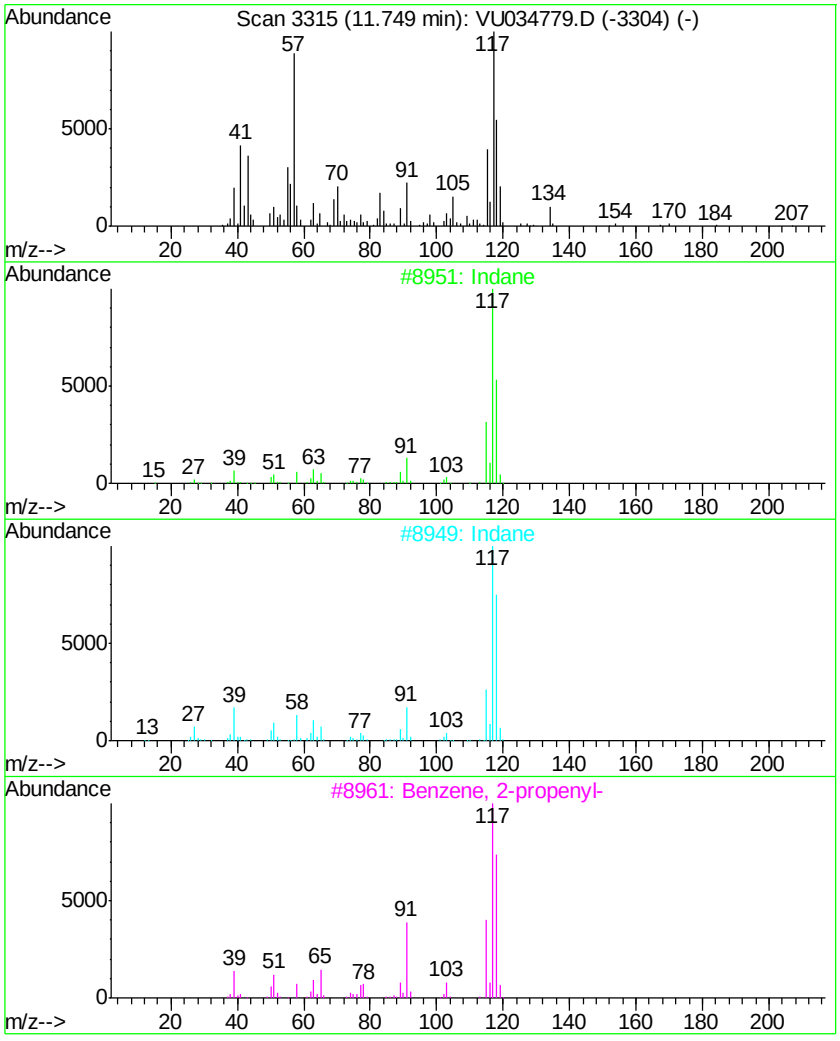
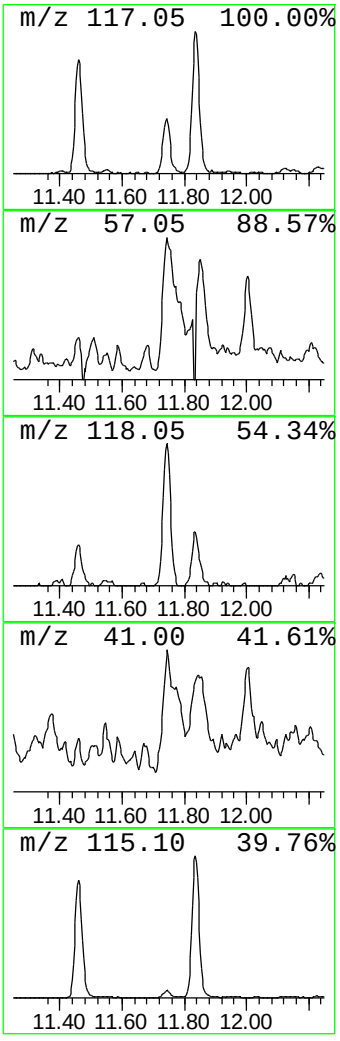
Peak Number 11 Indane Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.75 | 5.69 ug/L | 186936 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 60 |
| 2 | Indane | 118 | C9H10 | 000496-11-7 | 55 |
| 3 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 53 |
| 4 | Indane | 118 | C9H10 | 000496-11-7 | 53 |
| 5 | Indane | 118 | C9H10 | 000496-11-7 | 49 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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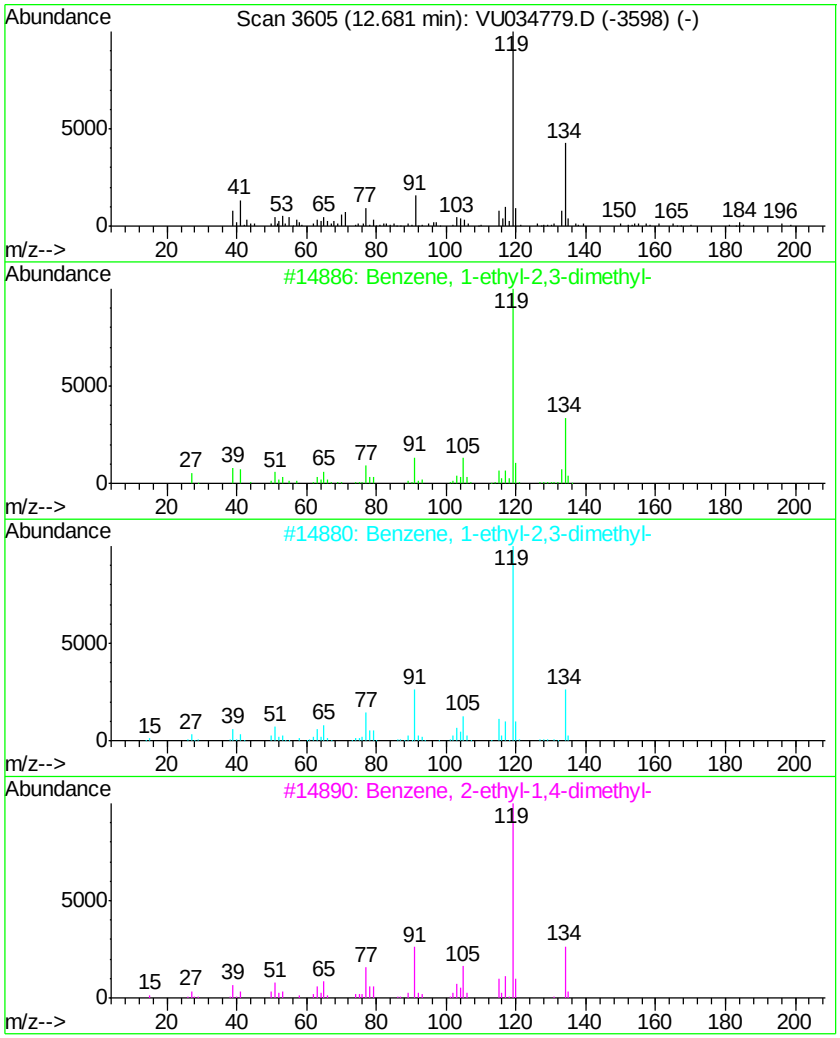
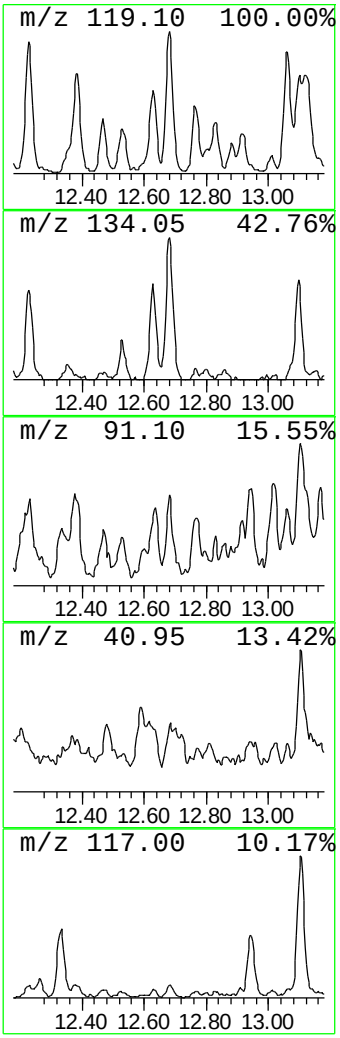
Peak Number 12 Benzene, 1-ethyl-2,3-dimethyl- Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.68 | 3.00 ug/L | 98597 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 94 |
| 2 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 94 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 94 |
| 4 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 91 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 91 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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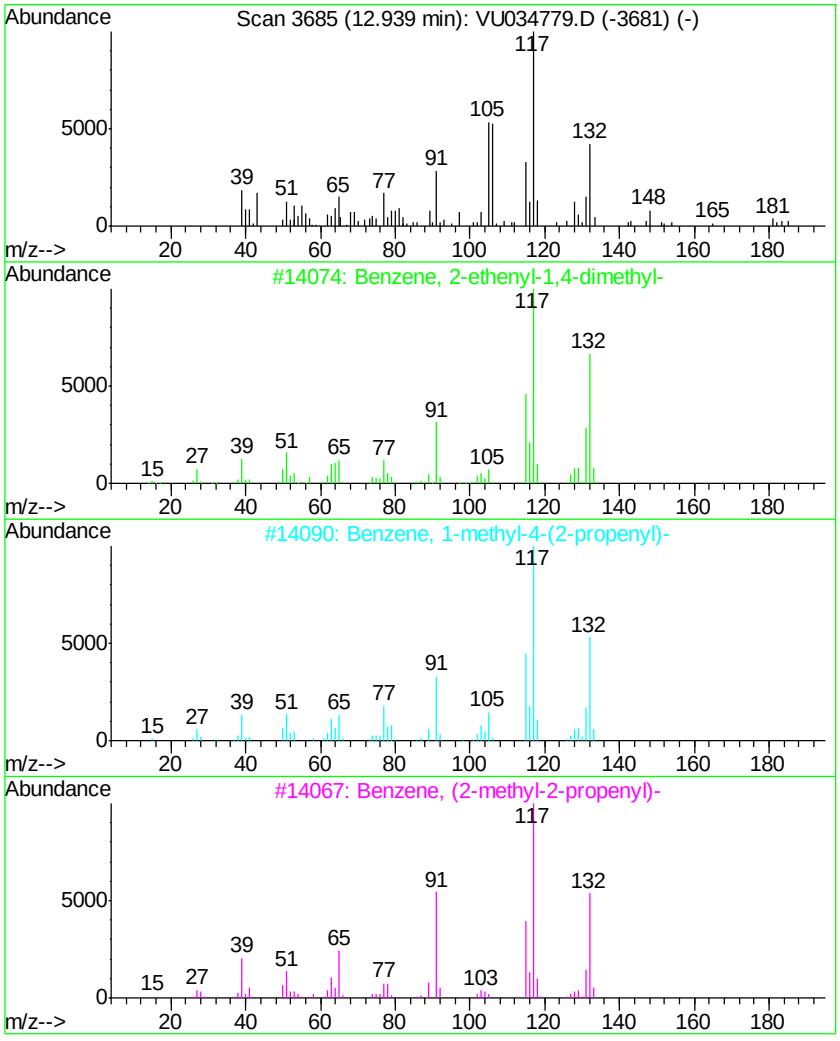
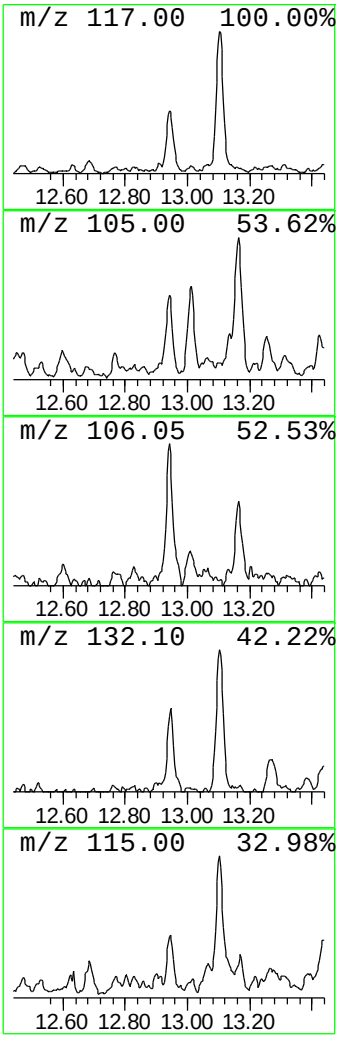
Peak Number 13 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.94 | 2.67 ug/L | 87886 | 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 | 89 |
| 2 | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12 | 003333-13-9 | 86 |
| 3 | Benzene, (2-methyl-2-propenyl)- | 132 | C10H12 | 003290-53-7 | 76 |
| 4 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000767-99-7 | 76 |
| 5 | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12 | 002039-90-9 | 76 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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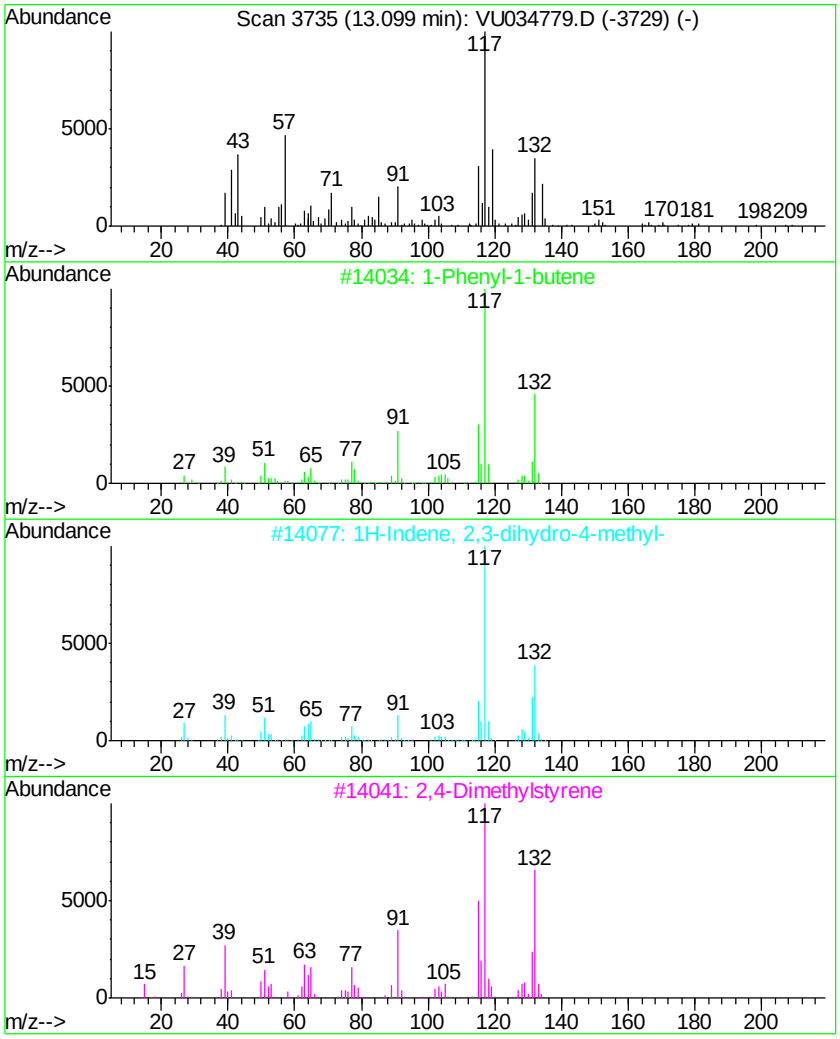
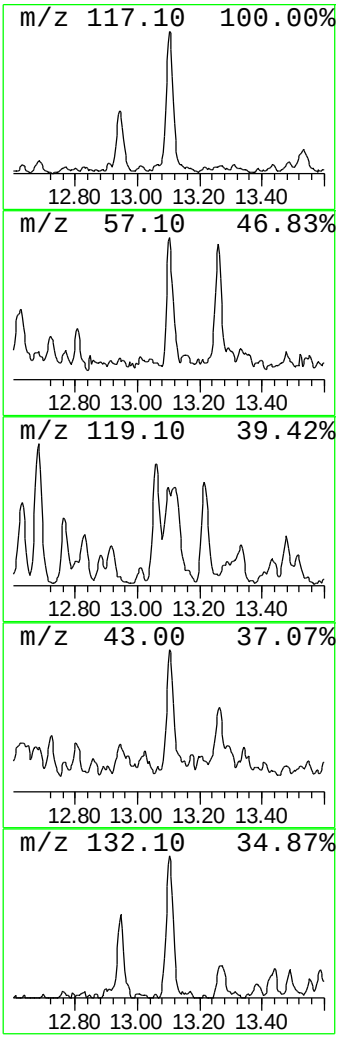
Peak Number 14 1-Phenyl-1-butene Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.10 | 5.93 ug/L | 195031 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 76 |
| 2 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 70 |
| 3 | 2,4-Dimethylstyrene | 132 | C10H12 | 002234-20-0 | 70 |
| 4 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000767-99-7 | 68 |
| 5 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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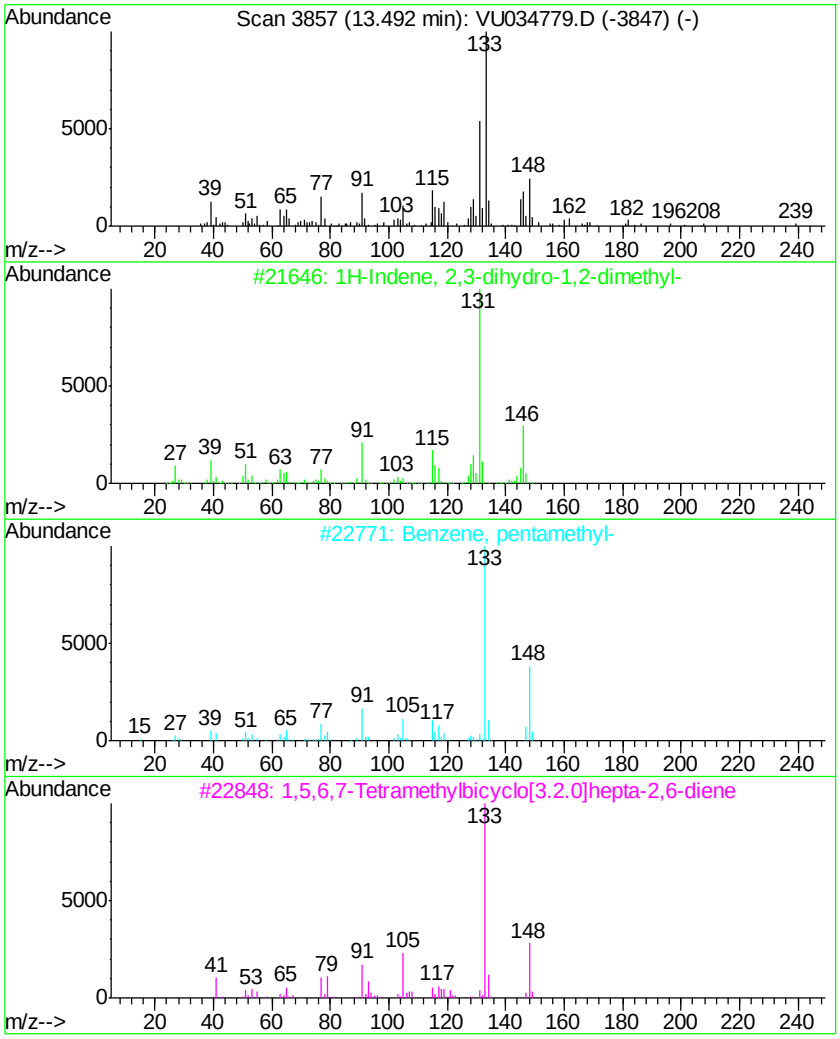
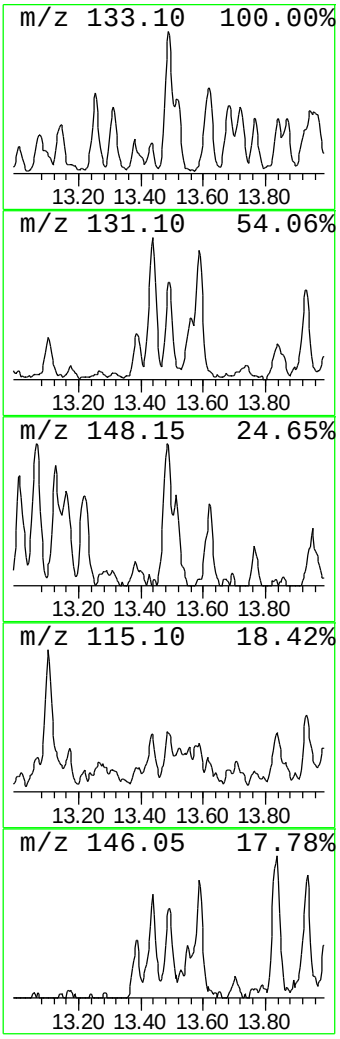
Peak Number 15 1H-Indene, 2,3-dihydro-1,2-... Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.49 | 3.25 ug/L | 106855 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 70 |
| 2 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 53 |
| 3 | 1,5,6,7-Tetramethylbicyclo[3.2.0... | 148 | C11H16 | 134329-46-7 | 53 |
| 4 | Benzene, 1-ethyl-2,4,5-trimethyl- | 148 | C11H16 | 017851-27-3 | 52 |
| 5 | Benzene, 1,4-dimethyl-2-(1-methy... | 148 | C11H16 | 004132-72-3 | 49 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

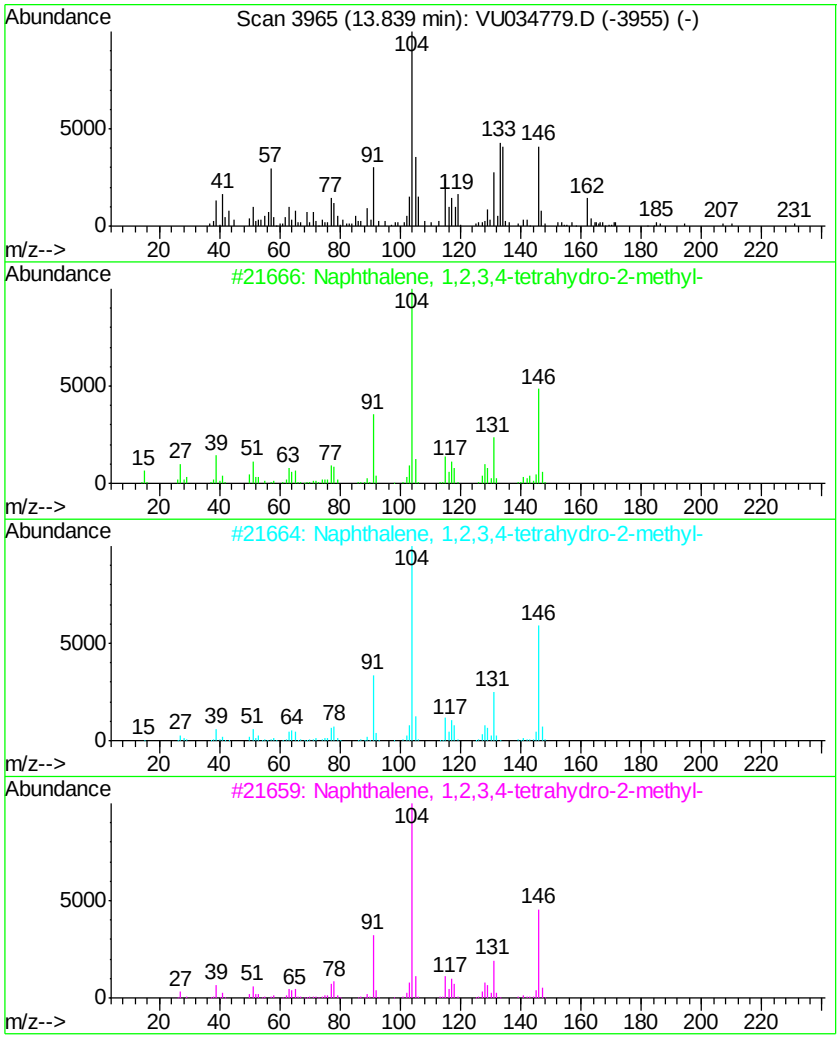
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

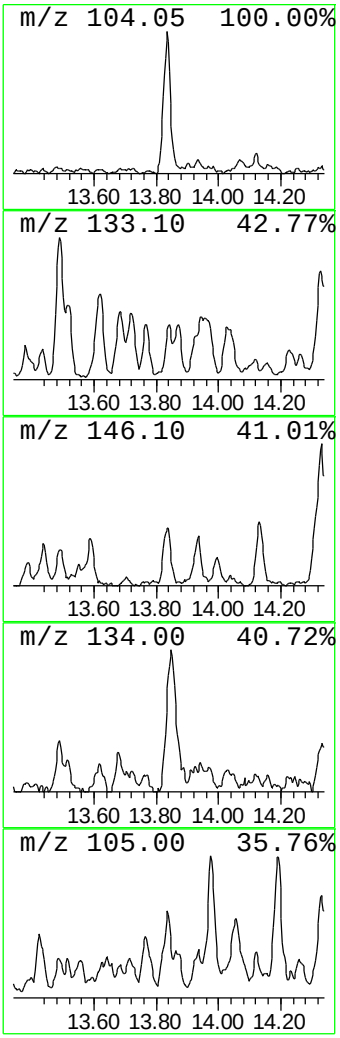
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 17 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.84 | 3.81 ug/L | 125290 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 003877-19-8 | 60 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 003877-19-8 | 49 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 003877-19-8 | 46 |
| 4 | Naphth[1,2-b]oxirene, 1a,2,3,7b-... | 146 | C10H10O | 002461-34-9 | 43 |
| 5 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 003877-19-8 | 43 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

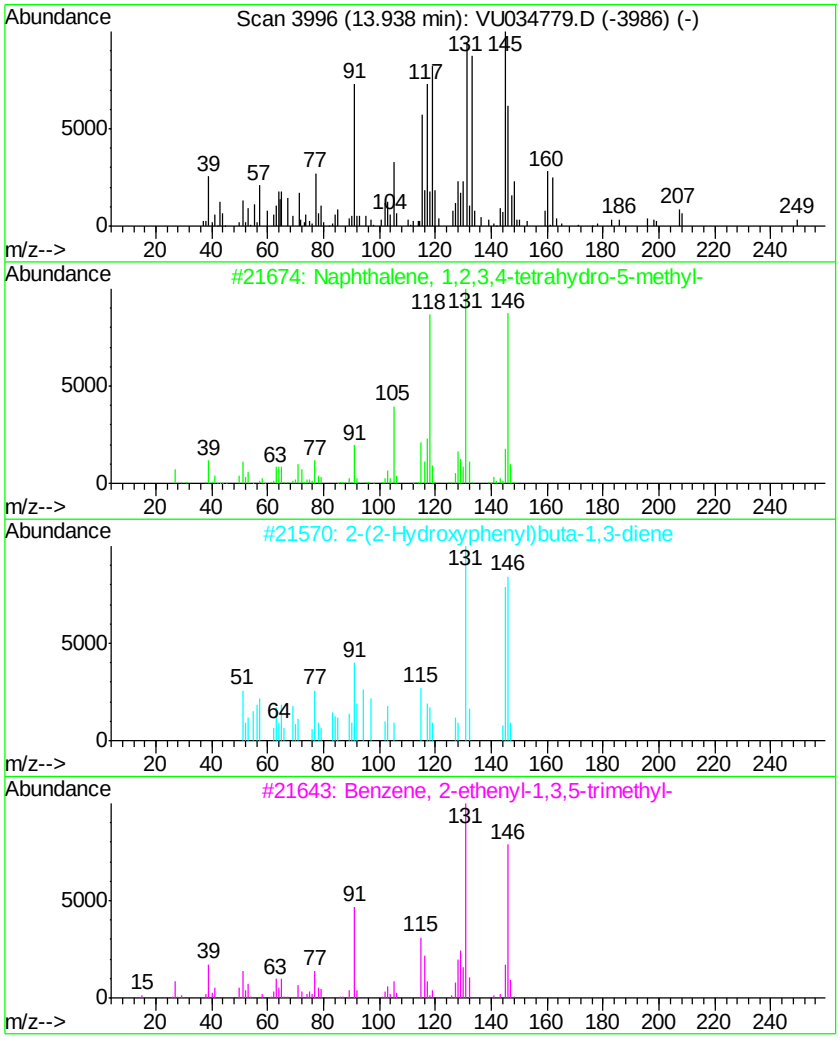
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

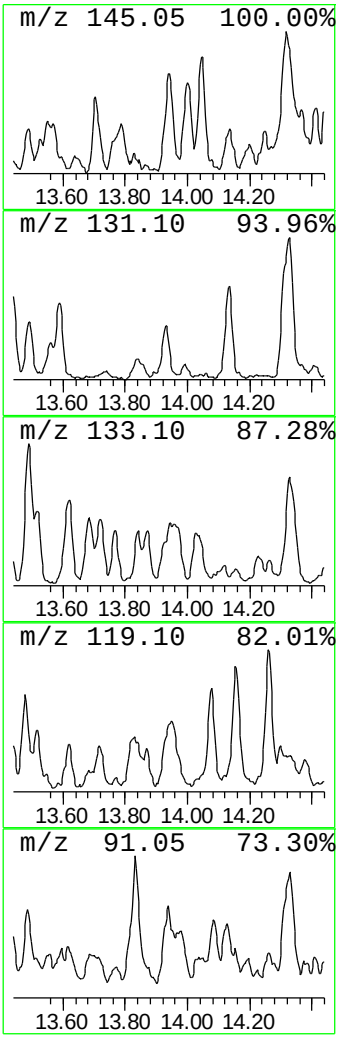
**********

Peak Number 18 unknown-01 Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.94 | 3.29 ug/L | 108191 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 002809-64-5 | 43 |
| 2 | 2-(2-Hydroxyphenyl)buta-1,3-diene | 146 | C10H10O | 038865-47-3 | 43 |
| 3 | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14 | 000769-25-5 | 42 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001680-51-9 | 41 |
| 5 | 2-Propenal, 2-methyl-3-phenyl- | 146 | C10H10O | 000101-39-3 | 41 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

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

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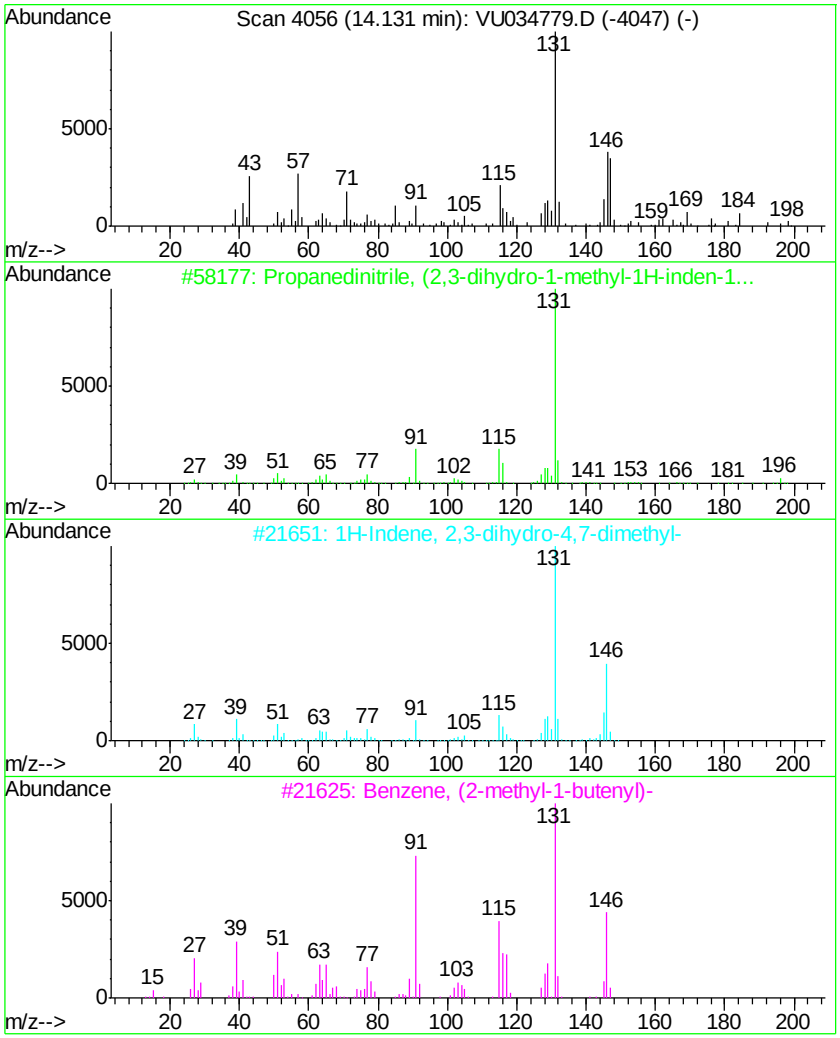
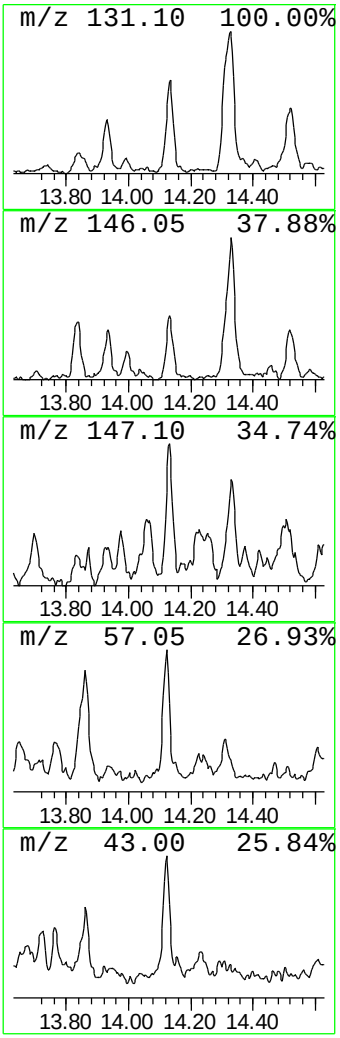
Peak Number 19 Propanedinitrile, (2,3-dihy... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.13 | 4.43 ug/L | 145574 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propanedinitrile, (2,3-dihydro-1... | 196 | C13H12N2 | 069564-96-1 | 92 |
| 2 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 87 |
| 3 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 55 |
| 4 | Benzene, (1-methyl-1-butenyl)- | 146 | C11H14 | 053172-84-2 | 55 |
| 5 | 2,2-Dimethylindene, 2,3-dihydro- | 146 | C11H14 | 020836-11-7 | 55 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

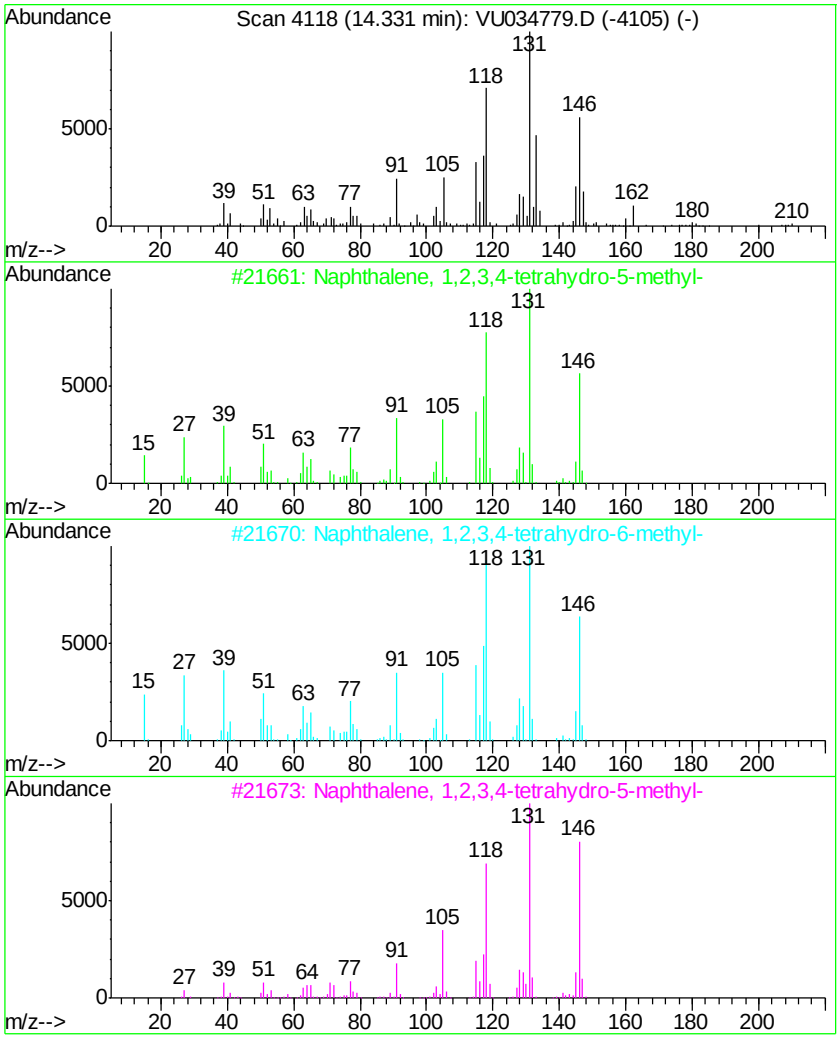
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

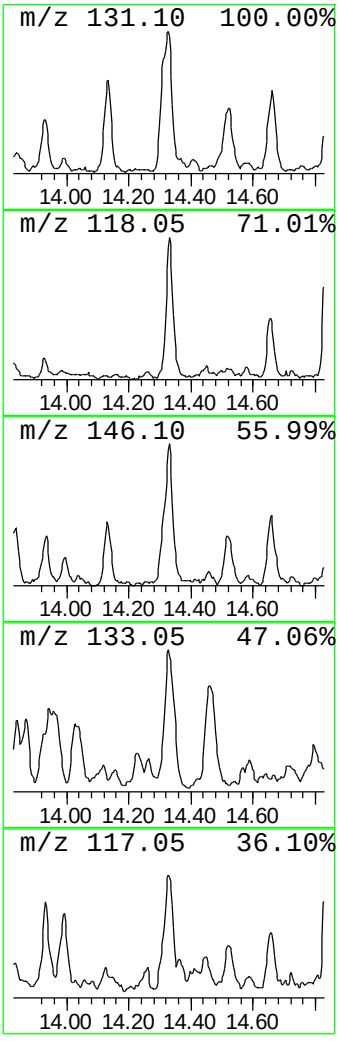
**********

Peak Number 20 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.33 | 9.00 ug/L | 295907 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 002809-64-5 | 93 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001680-51-9 | 89 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 002809-64-5 | 76 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 002809-64-5 | 70 |
| 5 | 1H-1,3,2-Benzodiazaborole, 2-eth... | 146 | C8H11BN2 | 074663-81-3 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

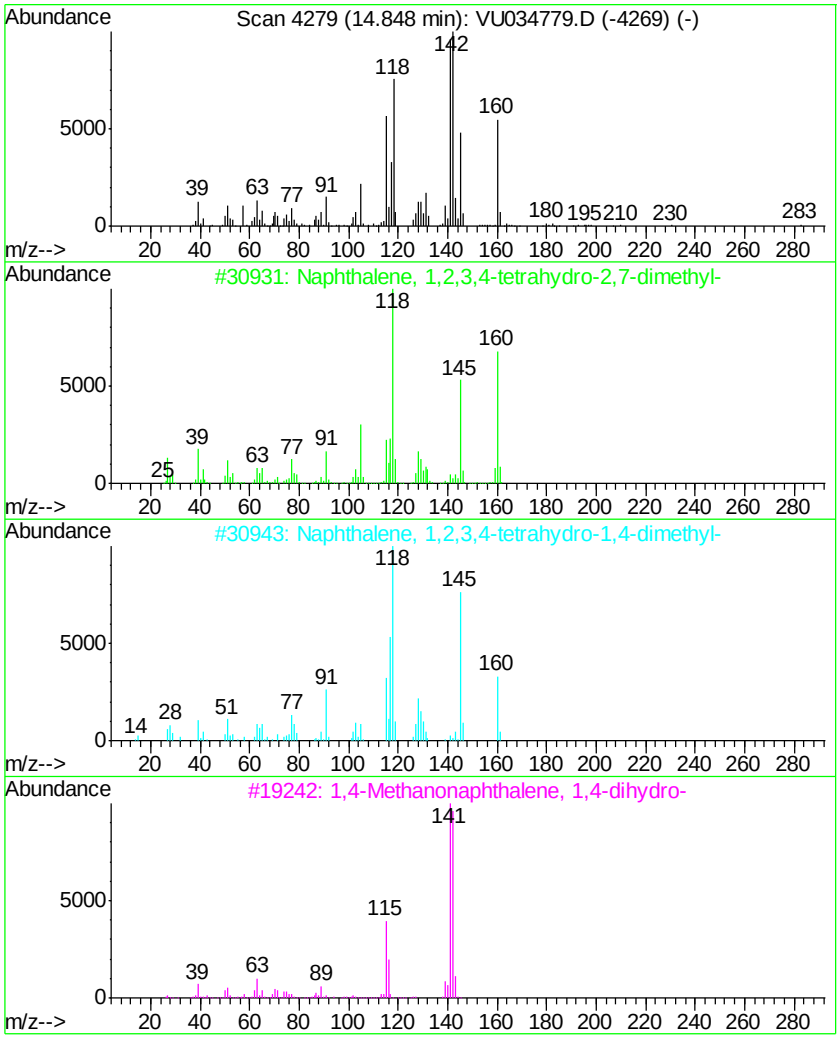
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

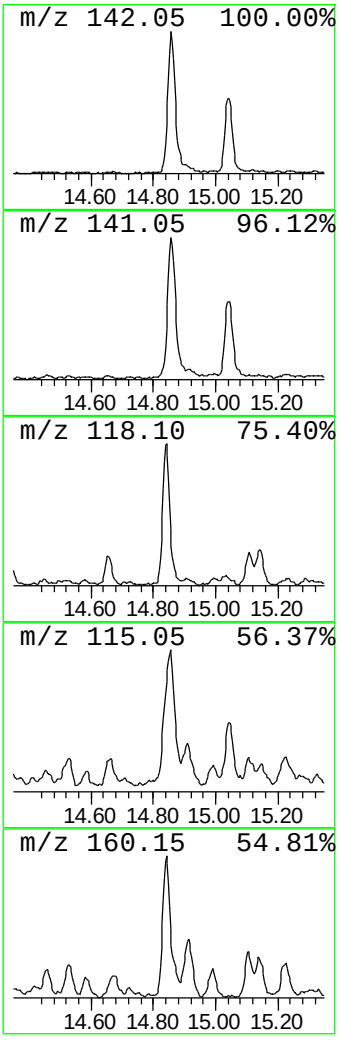
**********

Peak Number 22 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.85 | 13.56 ug/L | 445900 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 013065-07-1 | 50 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 004175-54-6 | 46 |
| 3 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 42 |
| 4 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 42 |
| 5 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 41 |



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Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

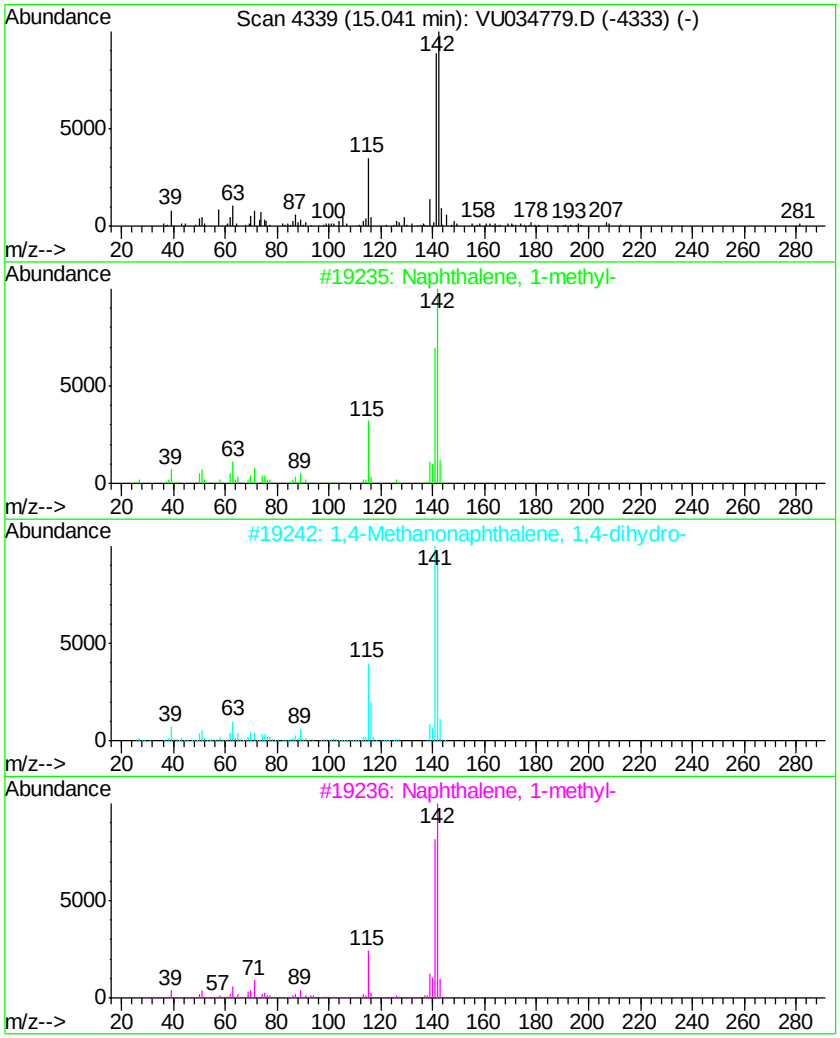
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

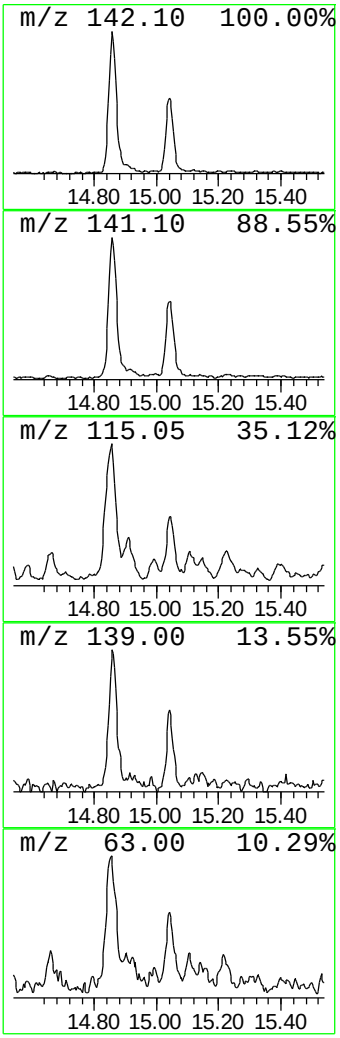
**********

Peak Number 23 Naphthalene, 1-methyl- Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.04 | 2.57 ug/L | 84649 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 90 |
| 2 | 1,4-Methanonaphthalene, 1,4-dihy... | 142 | C11H10 | 004453-90-1 | 90 |
| 3 | Naphthalene, 1-methyl- | 142 | C11H10 | 000090-12-0 | 90 |
| 4 | Naphthalene, 2-methyl- | 142 | C11H10 | 000091-57-6 | 90 |
| 5 | Benzocycloheptatriene | 142 | C11H10 | 000264-09-5 | 90 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

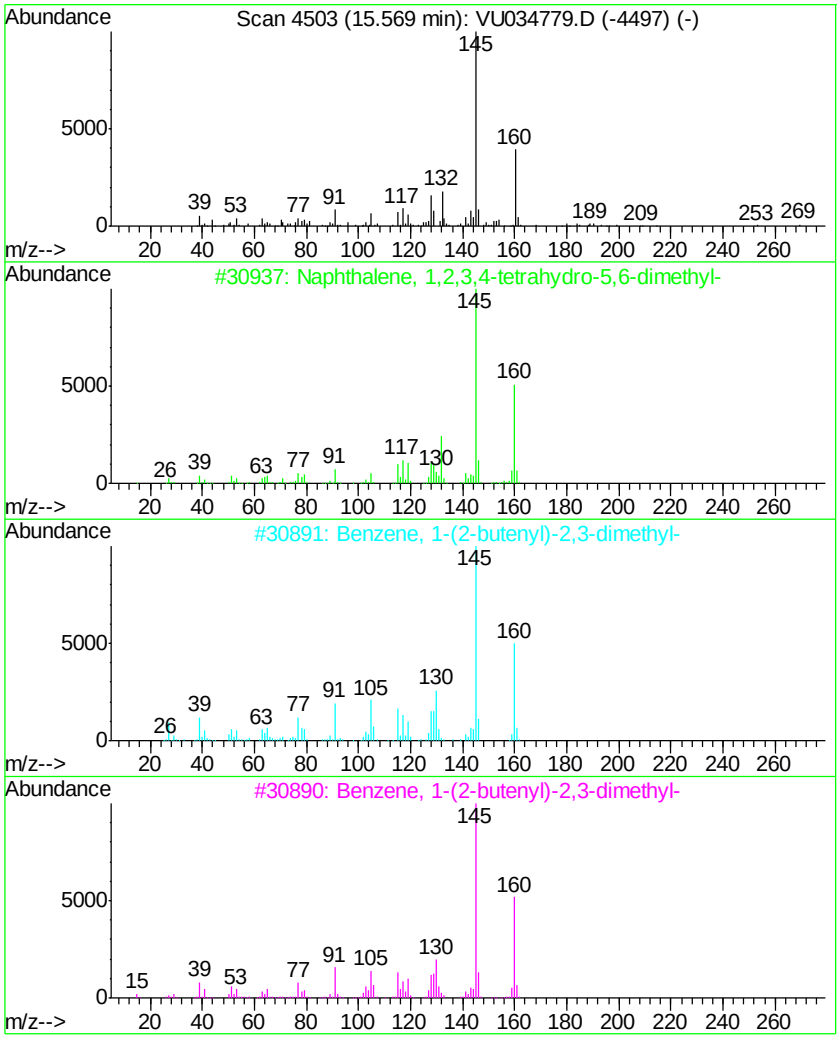
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

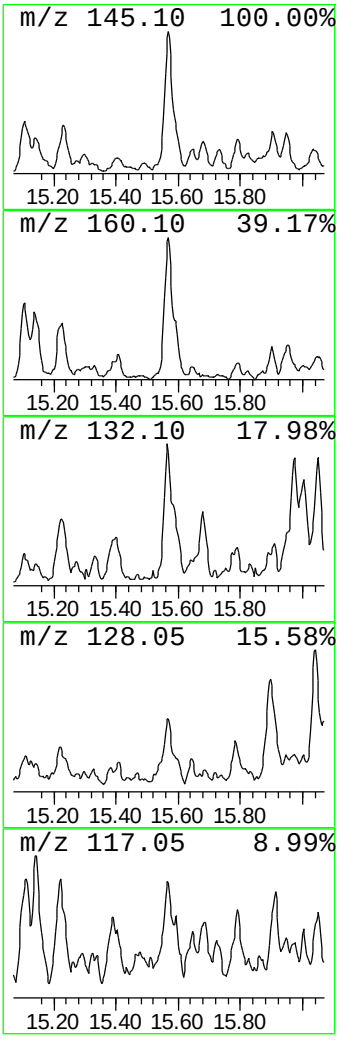
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 24 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.57 | 6.80 ug/L | 223630 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 020027-77-4 | 90 |
| 2 | Benzene, 1-(2-butenyl)-2,3-dimet... | 160 | C12H16 | 054340-85-1 | 83 |
| 3 | Benzene, 1-(2-butenyl)-2,3-dimet... | 160 | C12H16 | 054340-85-1 | 83 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 021564-91-0 | 80 |
| 5 | Benzene, 4-(2-butenyl)-1,2-dimet... | 160 | C12H16 | 054340-86-2 | 80 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

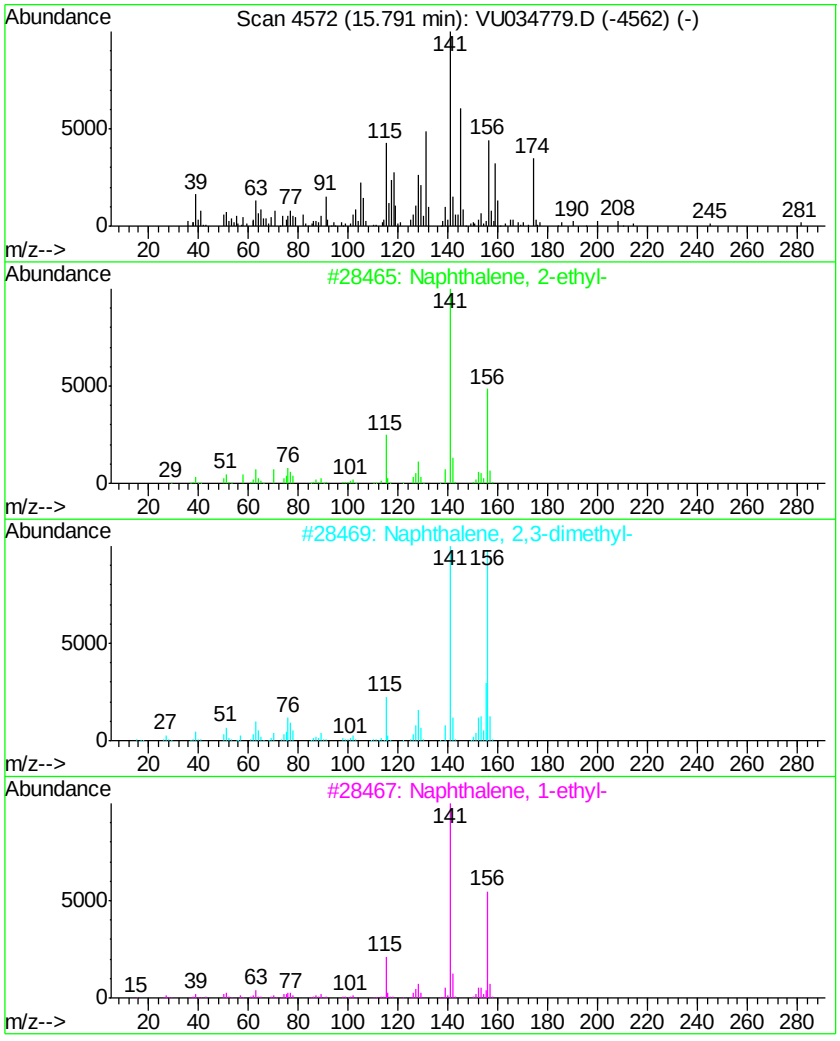
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

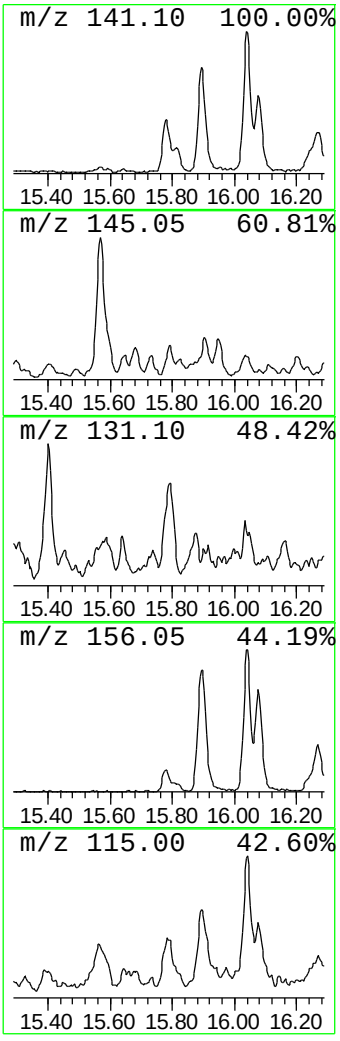
**********

Peak Number 25 Naphthalene, 2-ethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.79 | 4.46 ug/L | 146488 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-ethyl- | 156 | C12H12 | 000939-27-5 | 50 |
| 2 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 50 |
| 3 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 50 |
| 4 | Naphthalene, 1-ethyl- | 156 | C12H12 | 001127-76-0 | 46 |
| 5 | Naphthalene, 1,3-dimethyl- | 156 | C12H12 | 000575-41-7 | 43 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

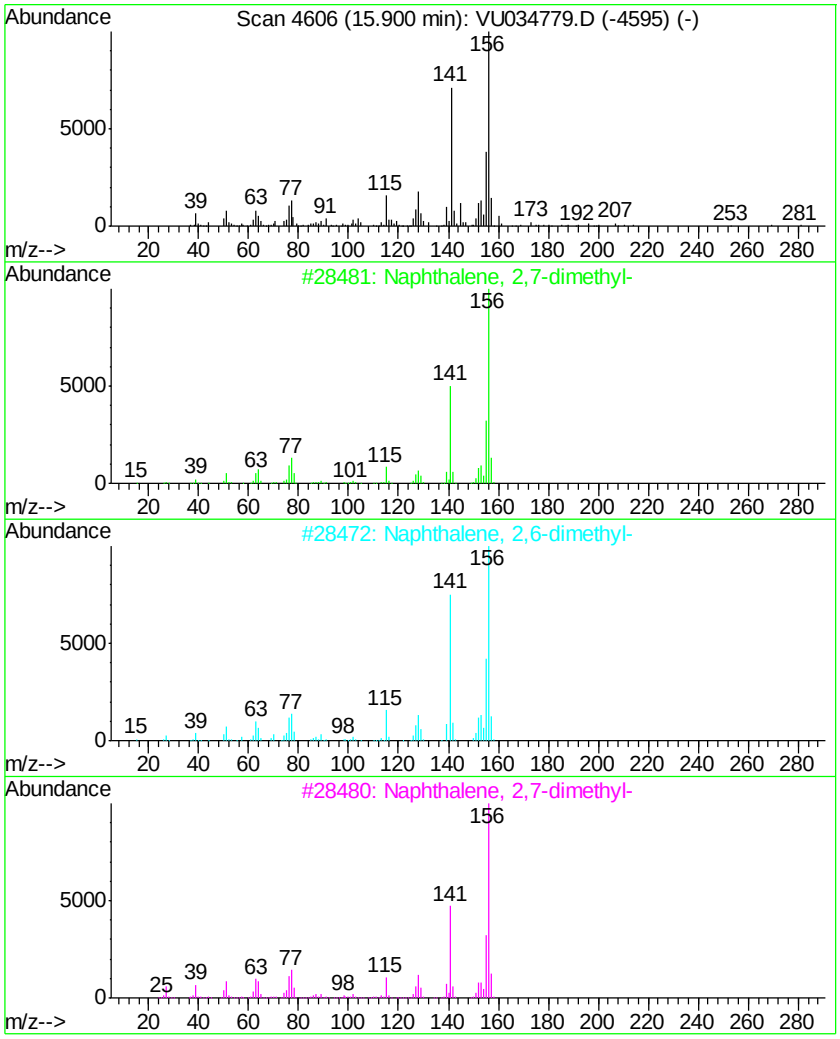
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

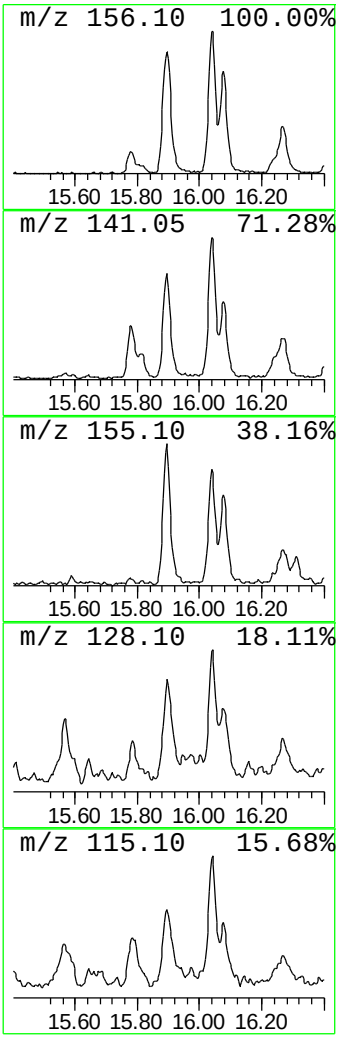
**********

Peak Number 26 Naphthalene, 2,7-dimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.90 | 11.48 ug/L | 377452 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 2 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 97 |
| 3 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 97 |
| 4 | Naphthalene, 1,5-dimethyl- | 156 | C12H12 | 000571-61-9 | 96 |
| 5 | Naphthalene, 1,6-dimethyl- | 156 | C12H12 | 000575-43-9 | 96 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

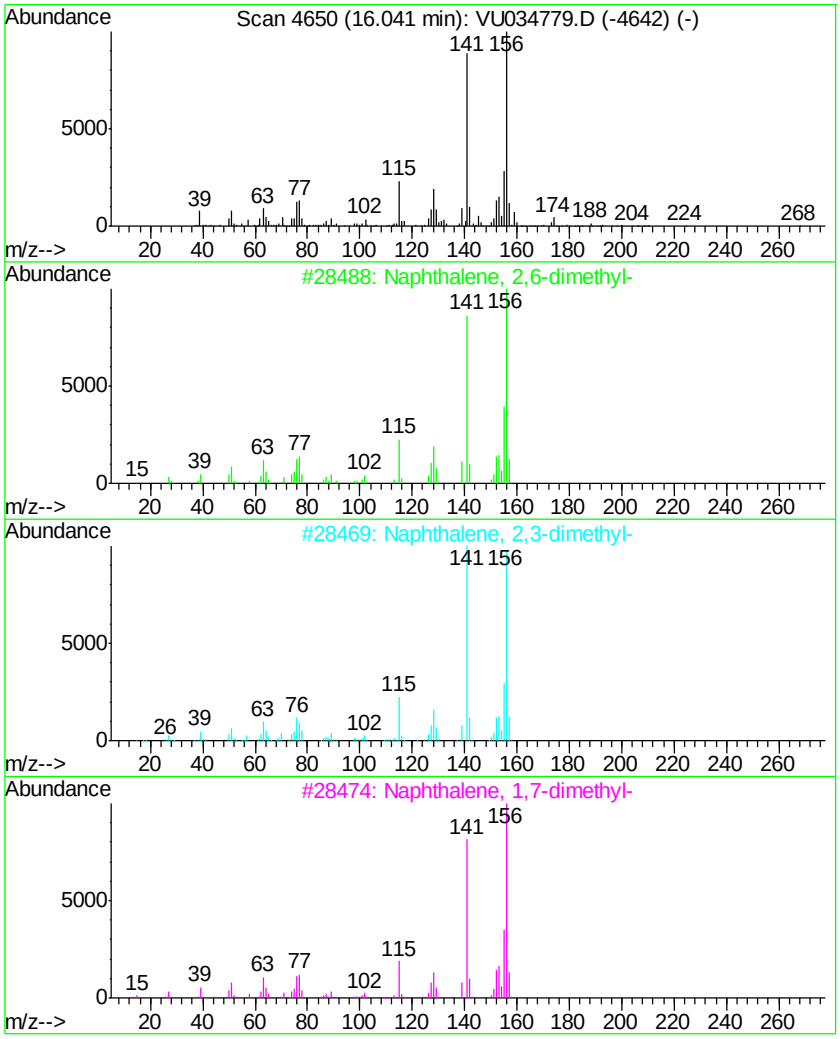
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

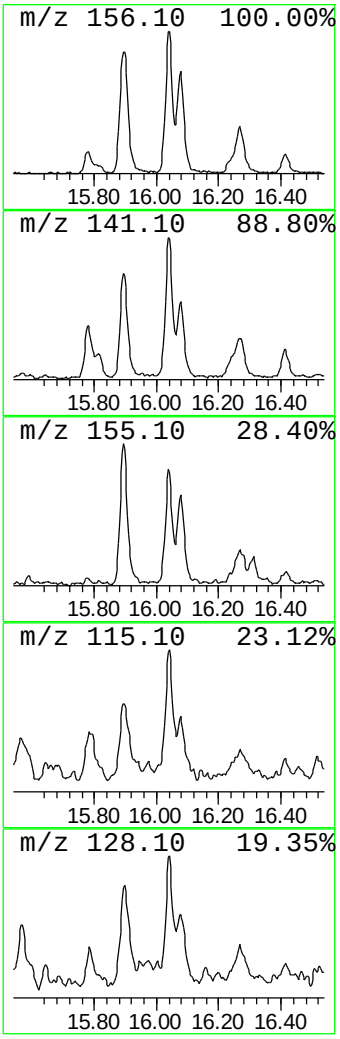
**********

Peak Number 27 Naphthalene, 2,6-dimethyl- Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.04 | 11.13 ug/L | 365822 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,6-dimethyl- | 156 | C12H12 | 000581-42-0 | 98 |
| 2 | Naphthalene, 2,3-dimethyl- | 156 | C12H12 | 000581-40-8 | 98 |
| 3 | Naphthalene, 1,7-dimethyl- | 156 | C12H12 | 000575-37-1 | 96 |
| 4 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |
| 5 | Naphthalene, 2,7-dimethyl- | 156 | C12H12 | 000582-16-1 | 96 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

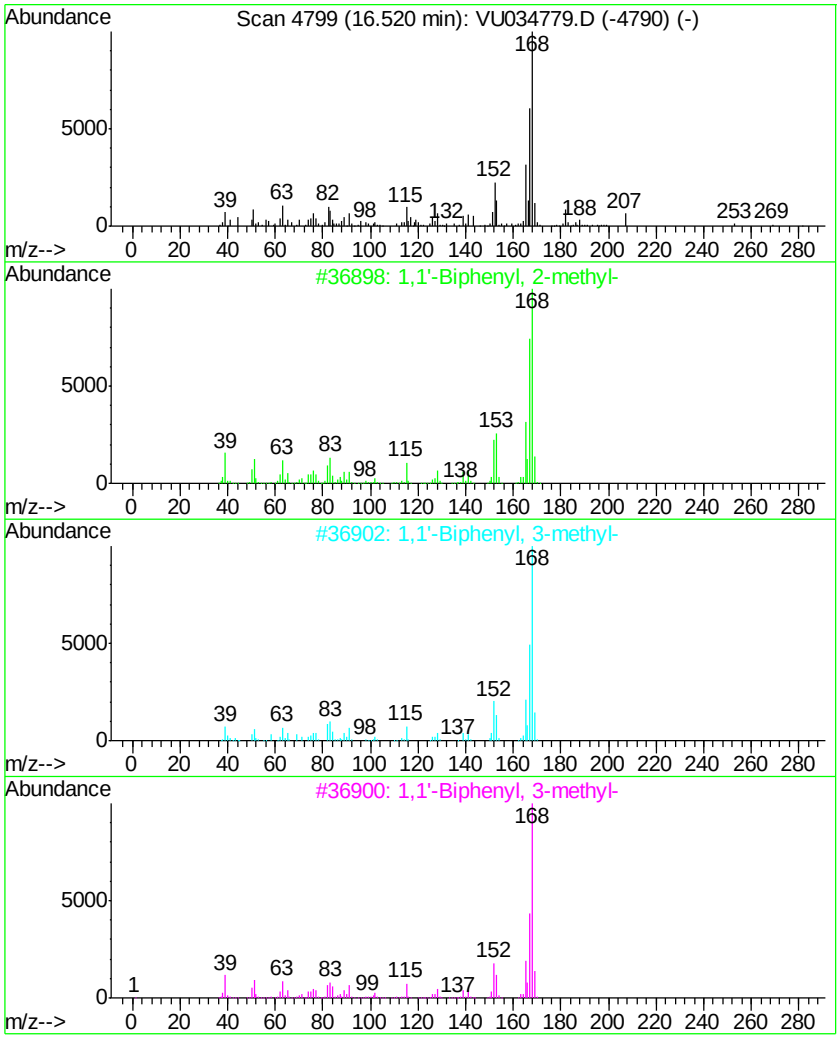
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

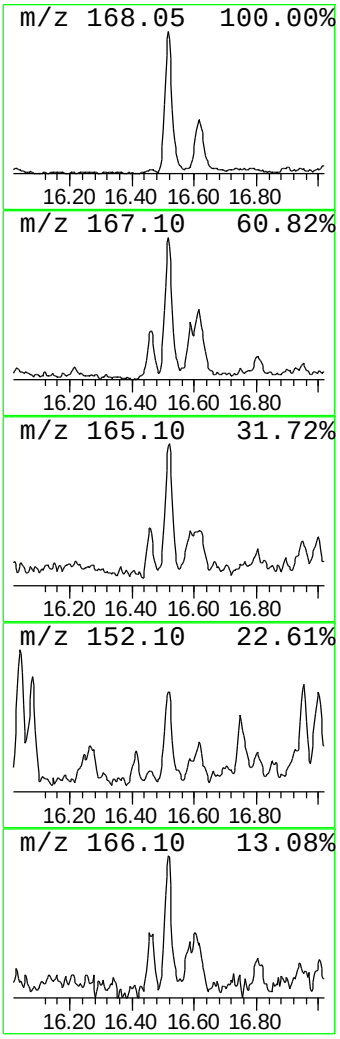
**********

Peak Number 29 1,1'-Biphenyl, 2-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.52 | 4.79 ug/L | 157520 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,1'-Biphenyl, 2-methyl- | 168 | C13H12 | 000643-58-3 | 90 |
| 2 | 1,1'-Biphenyl, 3-methyl- | 168 | C13H12 | 000643-93-6 | 90 |
| 3 | 1,1'-Biphenyl, 3-methyl- | 168 | C13H12 | 000643-93-6 | 89 |
| 4 | 1,1'-Biphenyl, 4-methyl- | 168 | C13H12 | 000644-08-6 | 87 |
| 5 | 1,1'-Biphenyl, 4-methyl- | 168 | C13H12 | 000644-08-6 | 83 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

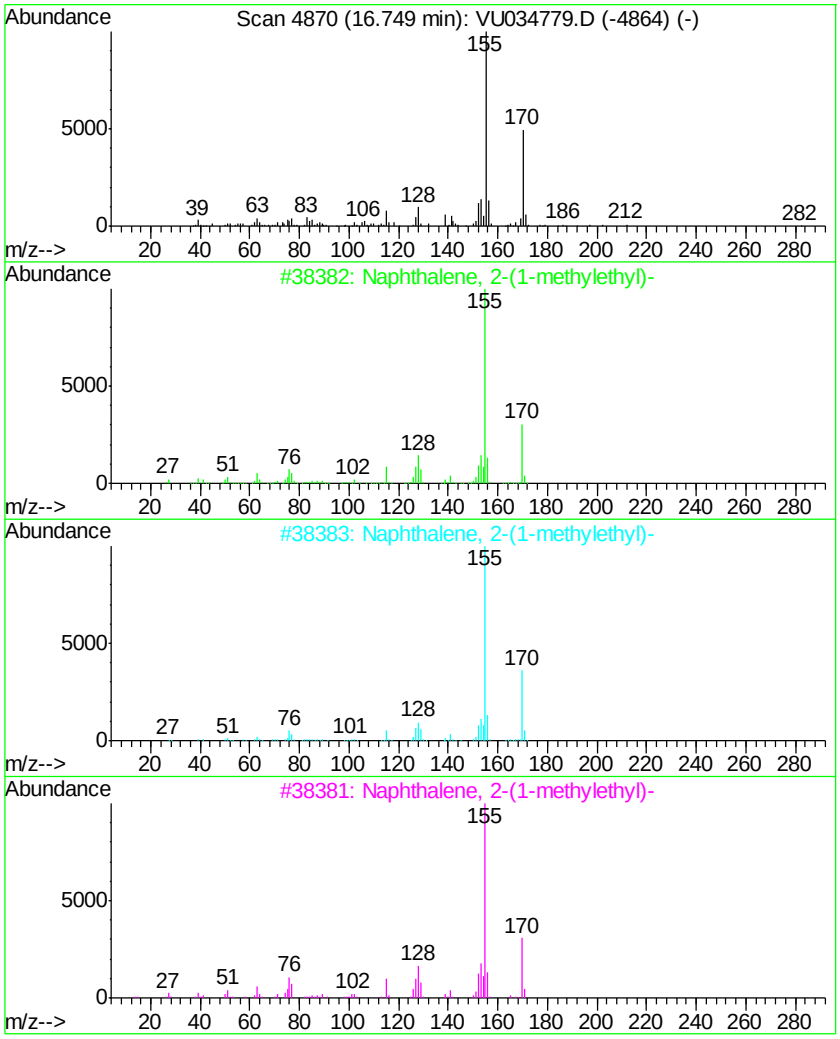
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

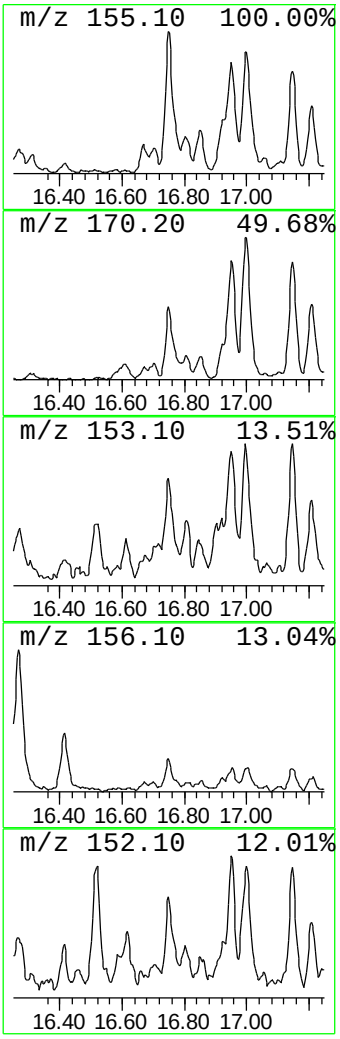
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 30 Naphthalene, 2-(1-methyleth... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.75 | 2.94 ug/L | 96777 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 91 |
| 2 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 91 |
| 3 | Naphthalene, 2-(1-methylethyl)- | 170 | C13H14 | 002027-17-0 | 78 |
| 4 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 70 |
| 5 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 68 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

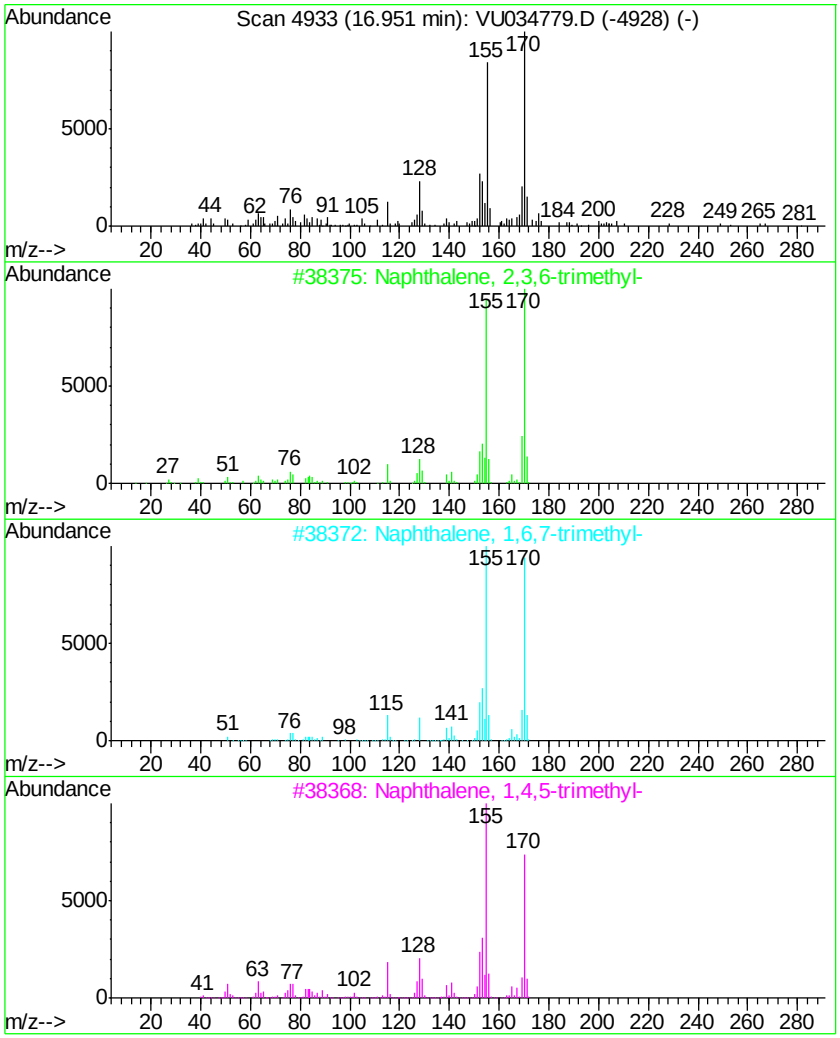
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

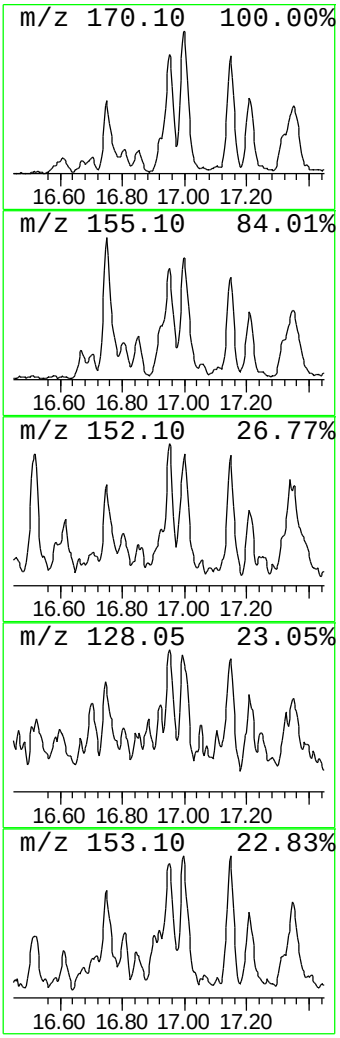
**********

Peak Number 31 Naphthalene, 2,3,6-trimethyl- Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 16.95 | 3.37 ug/L | 110662 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 96 |
| 2 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 93 |
| 3 | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14 | 002131-41-1 | 93 |
| 4 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 93 |
| 5 | Naphthalene, 2,3,6-trimethyl- | 170 | C13H14 | 000829-26-5 | 93 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

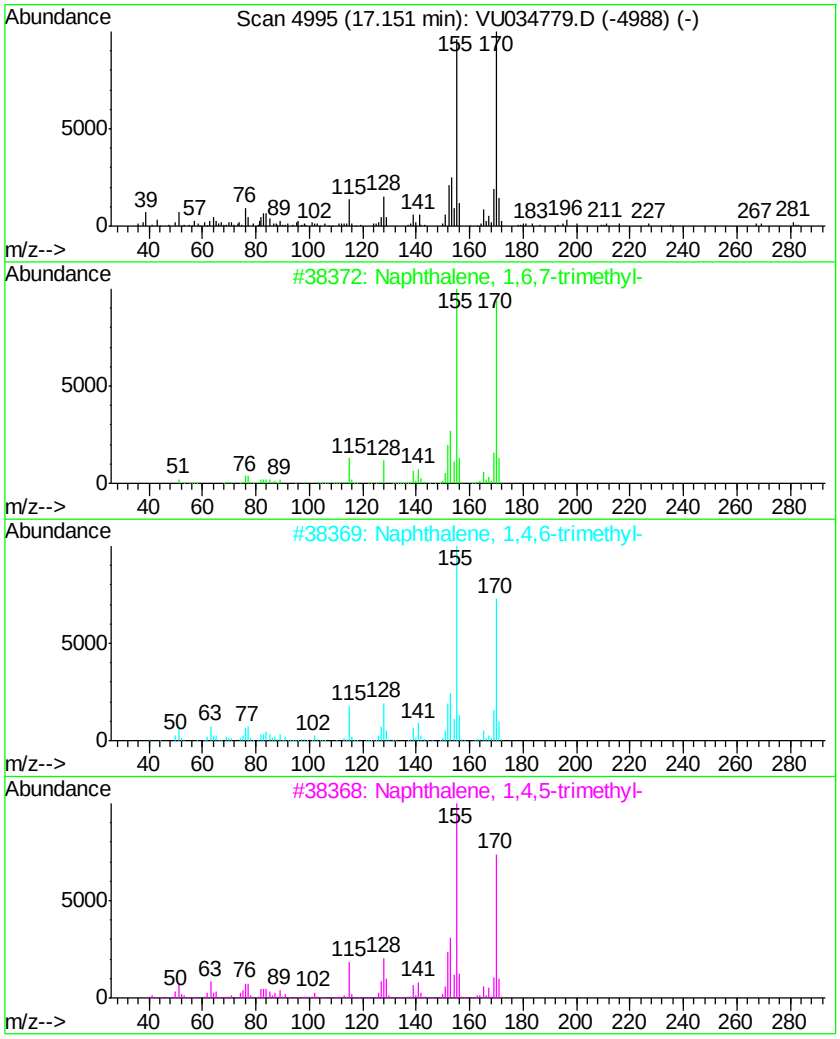
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

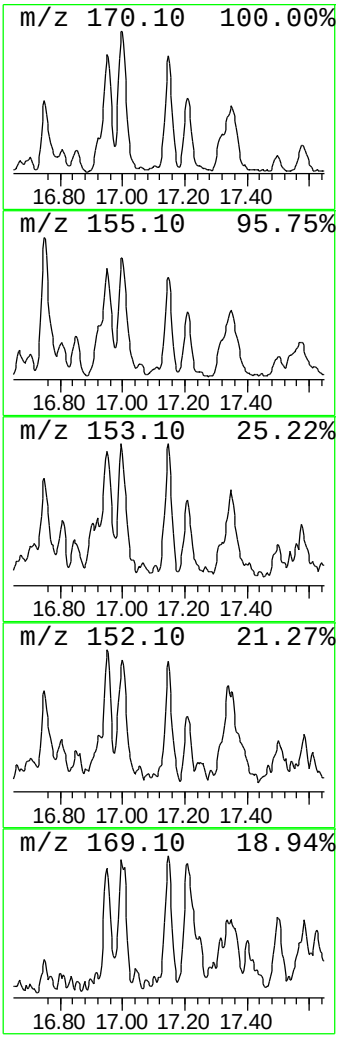
**********

Peak Number 33 Naphthalene, 1,6,7-trimethyl- Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 17.15 | 4.10 ug/L | 134907 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 96 |
| 2 | Naphthalene, 1,4,6-trimethyl- | 170 | C13H14 | 002131-42-2 | 96 |
| 3 | Naphthalene, 1,4,5-trimethyl- | 170 | C13H14 | 002131-41-1 | 96 |
| 4 | Naphthalene, 1,6,7-trimethyl- | 170 | C13H14 | 002245-38-7 | 93 |
| 5 | 4,6,8-Trimethylazulene | 170 | C13H14 | 000941-81-1 | 93 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034779.D
Acq On : 24 Sep 2019 18:22
Operator : JC/SP
Sample : K4932-17RE
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 17 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BFDE8RE

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.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 |
| Isopropyl Alcohol | 2.43 | 3.6 | ug/L | 110346 | 1 | 5.86 | 1527240 | 50.0 |
| 2-Hexanol | 7.89 | 4.1 | ug/L | 148685 | 2 | 9.07 | 1828750 | 50.0 |
| (DEL) Alkane: Str... | 9.42 | 4.0 | ug/L | 147357 | 2 | 9.07 | 1828750 | 50.0 |
| Benzene, 1-ethyl-... | 10.66 | 5.0 | ug/L | 162653 | 3 | 11.46 | 1643700 | 50.0 |
| (DEL) Alkane: Str... | 10.79 | 3.0 | ug/L | 99960 | 3 | 11.46 | 1643700 | 50.0 |
| Benzene, 1,2,3-tr... | 11.13 | 11.6 | ug/L | 380641 | 3 | 11.46 | 1643700 | 50.0 |
| Indane | 11.75 | 5.7 | ug/L | 186936 | 3 | 11.46 | 1643700 | 50.0 |
| Benzene, 1-ethyl-... | 12.68 | 3.0 | ug/L | 98597 | 3 | 11.46 | 1643700 | 50.0 |
| Benzene, 2-etheny... | 12.94 | 2.7 | ug/L | 87886 | 3 | 11.46 | 1643700 | 50.0 |
| 1-Phenyl-1-butene | 13.10 | 5.9 | ug/L | 195031 | 3 | 11.46 | 1643700 | 50.0 |
| 1H-Indene, 2,3-di... | 13.49 | 3.3 | ug/L | 106855 | 3 | 11.46 | 1643700 | 50.0 |
| Naphthalene, 1,2,... | 13.84 | 3.8 | ug/L | 125290 | 3 | 11.46 | 1643700 | 50.0 |
| unknown-01 | 13.94 | 3.3 | ug/L | 108191 | 3 | 11.46 | 1643700 | 50.0 |
| Propanedinitrile,... | 14.13 | 4.4 | ug/L | 145574 | 3 | 11.46 | 1643700 | 50.0 |
| Naphthalene, 1,2,... | 14.33 | 9.0 | ug/L | 295907 | 3 | 11.46 | 1643700 | 50.0 |
| Naphthalene, 1,2,... | 14.85 | 13.6 | ug/L | 445900 | 3 | 11.46 | 1643700 | 50.0 |
| Naphthalene, 1-me... | 15.04 | 2.6 | ug/L | 84649 | 3 | 11.46 | 1643700 | 50.0 |
| Naphthalene, 1,2,... | 15.57 | 6.8 | ug/L | 223630 | 3 | 11.46 | 1643700 | 50.0 |
| Naphthalene, 2-et... | 15.79 | 4.5 | ug/L | 146488 | 3 | 11.46 | 1643700 | 50.0 |
| Naphthalene, 2,7-... | 15.90 | 11.5 | ug/L | 377452 | 3 | 11.46 | 1643700 | 50.0 |
| Naphthalene, 2,6-... | 16.04 | 11.1 | ug/L | 365822 | 3 | 11.46 | 1643700 | 50.0 |
| 1,1'-Biphenyl, 2-... | 16.52 | 4.8 | ug/L | 157520 | 3 | 11.46 | 1643700 | 50.0 |
| Naphthalene, 2-(1... | 16.75 | 2.9 | ug/L | 96777 | 3 | 11.46 | 1643700 | 50.0 |
| Naphthalene, 2,3,... | 16.95 | 3.4 | ug/L | 110662 | 3 | 11.46 | 1643700 | 50.0 |
| Naphthalene, 1,6,... | 17.15 | 4.1 | ug/L | 134907 | 3 | 11.46 | 1643700 | 50.0 |