LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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 | 1.630 | 126 | 168 | 181 | rBV | 413026 | 1659739 | 6.65% | 0.333% |
| 2 | 4.617 | 1080 | 1097 | 1130 | rVV | 385434 | 999947 | 4.01% | 0.201% |
| 3 | 5.305 | 1290 | 1311 | 1340 | rVV2 | 916296 | 2637265 | 10.56% | 0.529% |
| 4 | 5.858 | 1469 | 1483 | 1515 | rBV | 688578 | 1452326 | 5.82% | 0.291% |
| 5 | 6.305 | 1609 | 1622 | 1632 | rVV | 572872 | 1202997 | 4.82% | 0.241% |
| 6 | 6.382 | 1633 | 1646 | 1659 | rVV | 1081773 | 2425788 | 9.72% | 0.487% |
| 7 | 7.154 | 1871 | 1886 | 1893 | rVV | 698843 | 1329483 | 5.33% | 0.267% |
| 8 | 7.199 | 1893 | 1900 | 1917 | rVV3 | 572676 | 1299217 | 5.20% | 0.261% |
| 9 | 7.315 | 1927 | 1936 | 1956 | rVV | 650272 | 1356174 | 5.43% | 0.272% |
| 10 | 7.501 | 1980 | 1994 | 2000 | rBV2 | 1065775 | 2000876 | 8.02% | 0.401% |
| 11 | 7.540 | 2000 | 2006 | 2023 | rVB2 | 1550657 | 2807067 | 11.24% | 0.563% |
| 12 | 7.794 | 2077 | 2085 | 2105 | rVV | 2030399 | 3732459 | 14.95% | 0.749% |
| 13 | 7.890 | 2105 | 2115 | 2131 | rVB | 722483 | 1330914 | 5.33% | 0.267% |
| 14 | 8.022 | 2136 | 2156 | 2167 | rBV | 582821 | 1123028 | 4.50% | 0.225% |
| 15 | 8.305 | 2224 | 2244 | 2257 | rBV | 1709040 | 3189823 | 12.78% | 0.640% |
| 16 | 8.463 | 2287 | 2293 | 2301 | rVV2 | 756338 | 1232144 | 4.94% | 0.247% |
| 17 | 8.521 | 2302 | 2311 | 2321 | rVB | 1449647 | 2370319 | 9.50% | 0.475% |
| 18 | 8.582 | 2321 | 2330 | 2339 | rBV | 962621 | 1693500 | 6.78% | 0.340% |
| 19 | 8.826 | 2401 | 2406 | 2416 | rVV3 | 545466 | 1162552 | 4.66% | 0.233% |
| 20 | 8.887 | 2416 | 2425 | 2437 | rVB2 | 1828641 | 3136634 | 12.57% | 0.629% |
| 21 | 9.009 | 2452 | 2463 | 2473 | rBV | 1583617 | 2616046 | 10.48% | 0.525% |
| 22 | 9.074 | 2473 | 2483 | 2494 | rVB | 963161 | 1636792 | 6.56% | 0.328% |
| 23 | 9.231 | 2519 | 2532 | 2544 | rBV | 2229348 | 3938350 | 15.78% | 0.790% |
| 24 | 9.357 | 2545 | 2571 | 2583 | rBV2 | 4431956 | 10609820 | 42.50% | 2.128% |
| 25 | 9.421 | 2583 | 2591 | 2619 | rVB | 5286862 | 8621347 | 34.54% | 1.729% |
| 26 | 9.697 | 2662 | 2677 | 2686 | rBV3 | 1133862 | 2371877 | 9.50% | 0.476% |
| 27 | 9.929 | 2731 | 2749 | 2759 | rBV3 | 1679560 | 3327429 | 13.33% | 0.667% |
| 28 | 10.022 | 2760 | 2778 | 2787 | rBV5 | 1907609 | 3955206 | 15.84% | 0.793% |
| 29 | 10.067 | 2788 | 2792 | 2804 | rVB | 692777 | 1032778 | 4.14% | 0.207% |
| 30 | 10.147 | 2805 | 2817 | 2826 | rBV | 2285223 | 3776311 | 15.13% | 0.757% |
| 31 | 10.302 | 2852 | 2865 | 2870 | rBV3 | 893697 | 1677276 | 6.72% | 0.336% |
| 32 | 10.331 | 2870 | 2874 | 2889 | rVB2 | 959922 | 1638725 | 6.56% | 0.329% |
| 33 | 10.427 | 2889 | 2904 | 2911 | rBV2 | 1377355 | 3333487 | 13.35% | 0.669% |
| 34 | 10.569 | 2937 | 2948 | 2957 | rBV | 3379383 | 5263698 | 21.09% | 1.056% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU092419\
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Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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 | 10.662 | 2967 | 2977 | 2992 | rBV | 7665926 | 17443641 | 69.88% | 3.499% |
| 36 | 10.752 | 2992 | 3005 | 3011 | rVV2 | 3388223 | 6688905 | 26.80% | 1.342% |
| 37 | 10.794 | 3011 | 3018 | 3028 | rVB | 5121503 | 7540565 | 30.21% | 1.513% |
| 38 | 10.951 | 3057 | 3067 | 3087 | rVB | 5289971 | 9077573 | 36.36% | 1.821% |
| 39 | 11.093 | 3103 | 3111 | 3114 | rBV | 997738 | 1305773 | 5.23% | 0.262% |
| 40 | 11.128 | 3114 | 3122 | 3135 | rVB | 6091942 | 9327530 | 37.37% | 1.871% |
| 41 | 11.302 | 3152 | 3176 | 3189 | rBV | 3350315 | 7001244 | 28.05% | 1.404% |
| 42 | 11.376 | 3190 | 3199 | 3202 | rVV2 | 1561874 | 2196396 | 8.80% | 0.441% |
| 43 | 11.405 | 3203 | 3208 | 3217 | rVV | 3638386 | 5557885 | 22.26% | 1.115% |
| 44 | 11.456 | 3217 | 3224 | 3234 | rVV4 | 2610534 | 4206669 | 16.85% | 0.844% |
| 45 | 11.549 | 3246 | 3253 | 3260 | rVV | 1347842 | 1908263 | 7.64% | 0.383% |
| 46 | 11.678 | 3287 | 3293 | 3304 | rVB5 | 906060 | 1509975 | 6.05% | 0.303% |
| 47 | 11.755 | 3305 | 3317 | 3320 | rVV3 | 2880076 | 4944767 | 19.81% | 0.992% |
| 48 | 11.787 | 3321 | 3327 | 3335 | rVV | 5694263 | 8752460 | 35.06% | 1.756% |
| 49 | 11.845 | 3335 | 3345 | 3363 | rVB7 | 7039802 | 16548004 | 66.29% | 3.319% |
| 50 | 11.961 | 3371 | 3381 | 3387 | rBV | 1304955 | 2187065 | 8.76% | 0.439% |
| 51 | 12.006 | 3387 | 3395 | 3398 | rVV | 3247390 | 4534011 | 18.16% | 0.909% |
| 52 | 12.035 | 3399 | 3404 | 3422 | rVB | 4587180 | 7127758 | 28.55% | 1.430% |
| 53 | 12.125 | 3423 | 3432 | 3436 | rBV | 3602117 | 5171104 | 20.72% | 1.037% |
| 54 | 12.157 | 3437 | 3442 | 3451 | rVB | 3909210 | 5469659 | 21.91% | 1.097% |
| 55 | 12.231 | 3452 | 3465 | 3472 | rBV | 3851669 | 6350906 | 25.44% | 1.274% |
| 56 | 12.334 | 3488 | 3497 | 3503 | rBV | 2567845 | 4273222 | 17.12% | 0.857% |
| 57 | 12.382 | 3504 | 3512 | 3529 | rVB3 | 4816425 | 8831844 | 35.38% | 1.772% |
| 58 | 12.472 | 3530 | 3540 | 3551 | rBV3 | 2597512 | 5375988 | 21.54% | 1.078% |
| 59 | 12.530 | 3551 | 3558 | 3568 | rVB2 | 1912879 | 3304430 | 13.24% | 0.663% |
| 60 | 12.594 | 3568 | 3578 | 3582 | rBV4 | 1622632 | 2535208 | 10.16% | 0.509% |
| 61 | 12.630 | 3583 | 3589 | 3597 | rVB3 | 2218848 | 3283345 | 13.15% | 0.659% |
| 62 | 12.681 | 3597 | 3605 | 3623 | rVB | 3811159 | 7253793 | 29.06% | 1.455% |
| 63 | 12.768 | 3623 | 3632 | 3638 | rBV2 | 2208225 | 3581825 | 14.35% | 0.718% |
| 64 | 12.942 | 3680 | 3686 | 3700 | rVB | 4720819 | 7149324 | 28.64% | 1.434% |
| 65 | 13.012 | 3700 | 3708 | 3716 | rBV2 | 2297626 | 3371678 | 13.51% | 0.676% |
| 66 | 13.064 | 3716 | 3724 | 3728 | rBV3 | 2431722 | 3572114 | 14.31% | 0.717% |
| 67 | 13.102 | 3728 | 3736 | 3750 | rVB2 | 8659878 | 14675803 | 58.79% | 2.944% |
| 68 | 13.218 | 3765 | 3772 | 3777 | rBV | 1317243 | 1719851 | 6.89% | 0.345% |
| 69 | 13.266 | 3777 | 3787 | 3795 | rVV3 | 6416533 | 10194840 | 40.84% | 2.045% |
| 70 | 13.308 | 3796 | 3800 | 3816 | rVB4 | 1597040 | 2945815 | 11.80% | 0.591% |
| 71 | 13.385 | 3816 | 3824 | 3831 | rBV | 1611557 | 2444814 | 9.79% | 0.490% |

LSC Area Percent Report

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Acq On : 24 Sep 2019 16:48
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Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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 | 13.437 | 3831 | 3840 | 3847 | rBV2 | 2867293 | 4187204 | 16.77% | 0.840% |
| 73 | 13.488 | 3847 | 3856 | 3863 | rBV3 | 3827817 | 6179015 | 24.75% | 1.239% |
| 74 | 13.591 | 3882 | 3888 | 3894 | rBV | 1764328 | 2125585 | 8.51% | 0.426% |
| 75 | 13.681 | 3910 | 3916 | 3919 | rBV2 | 766062 | 967752 | 3.88% | 0.194% |
| 76 | 13.720 | 3921 | 3928 | 3936 | rVB | 3034438 | 4752178 | 19.04% | 0.953% |
| 77 | 13.768 | 3936 | 3943 | 3952 | rBV3 | 1195635 | 1728224 | 6.92% | 0.347% |
| 78 | 13.835 | 3953 | 3964 | 3972 | rBV | 6582201 | 10847810 | 43.46% | 2.176% |
| 79 | 13.932 | 3984 | 3994 | 4003 | rBV3 | 5425839 | 9733812 | 38.99% | 1.953% |
| 80 | 14.128 | 4046 | 4055 | 4069 | rBV3 | 3633826 | 6770201 | 27.12% | 1.358% |
| 81 | 14.260 | 4091 | 4096 | 4103 | rVB | 1027369 | 1351505 | 5.41% | 0.271% |
| 82 | 14.331 | 4103 | 4118 | 4138 | rBV | 12113004 | 23589347 | 94.50% | 4.732% |
| 83 | 14.456 | 4149 | 4157 | 4166 | rBV4 | 1719452 | 2903386 | 11.63% | 0.582% |
| 84 | 14.524 | 4170 | 4178 | 4188 | rVB4 | 3393577 | 6518959 | 26.11% | 1.308% |
| 85 | 14.585 | 4189 | 4197 | 4209 | rBV7 | 1123459 | 2279384 | 9.13% | 0.457% |
| 86 | 14.659 | 4210 | 4220 | 4231 | rBV2 | 6434462 | 10932006 | 43.79% | 2.193% |
| 87 | 14.848 | 4269 | 4279 | 4291 | rBV4 | 12333451 | 24962835 | 100.00% | 5.007% |
| 88 | 14.913 | 4292 | 4299 | 4310 | rVB4 | 3880884 | 6815957 | 27.30% | 1.367% |
| 89 | 14.990 | 4316 | 4323 | 4330 | rBV3 | 1834955 | 2832610 | 11.35% | 0.568% |
| 90 | 15.041 | 4331 | 4339 | 4351 | rVV | 4483484 | 7837613 | 31.40% | 1.572% |
| 91 | 15.109 | 4352 | 4360 | 4365 | rVV3 | 2671375 | 4394206 | 17.60% | 0.881% |
| 92 | 15.141 | 4366 | 4370 | 4384 | rVB2 | 2049856 | 3650158 | 14.62% | 0.732% |
| 93 | 15.221 | 4386 | 4395 | 4407 | rVV4 | 2262343 | 4777056 | 19.14% | 0.958% |
| 94 | 15.401 | 4438 | 4451 | 4461 | rBV8 | 1453770 | 3489844 | 13.98% | 0.700% |
| 95 | 15.568 | 4494 | 4503 | 4519 | rVB2 | 4326621 | 11124724 | 44.57% | 2.232% |
| 96 | 15.649 | 4519 | 4528 | 4535 | rBV4 | 1928429 | 3268040 | 13.09% | 0.656% |
| 97 | 15.784 | 4561 | 4570 | 4590 | rVB3 | 1986791 | 4775676 | 19.13% | 0.958% |
| 98 | 15.896 | 4593 | 4605 | 4616 | rBV3 | 3562683 | 7448225 | 29.84% | 1.494% |
| 99 | 16.038 | 4642 | 4649 | 4657 | rBV2 | 3808146 | 5771513 | 23.12% | 1.158% |
| 100 | 16.514 | 4790 | 4797 | 4811 | rVB2 | 690631 | 1207953 | 4.84% | 0.242% |

Sum of corrected areas: 498528219

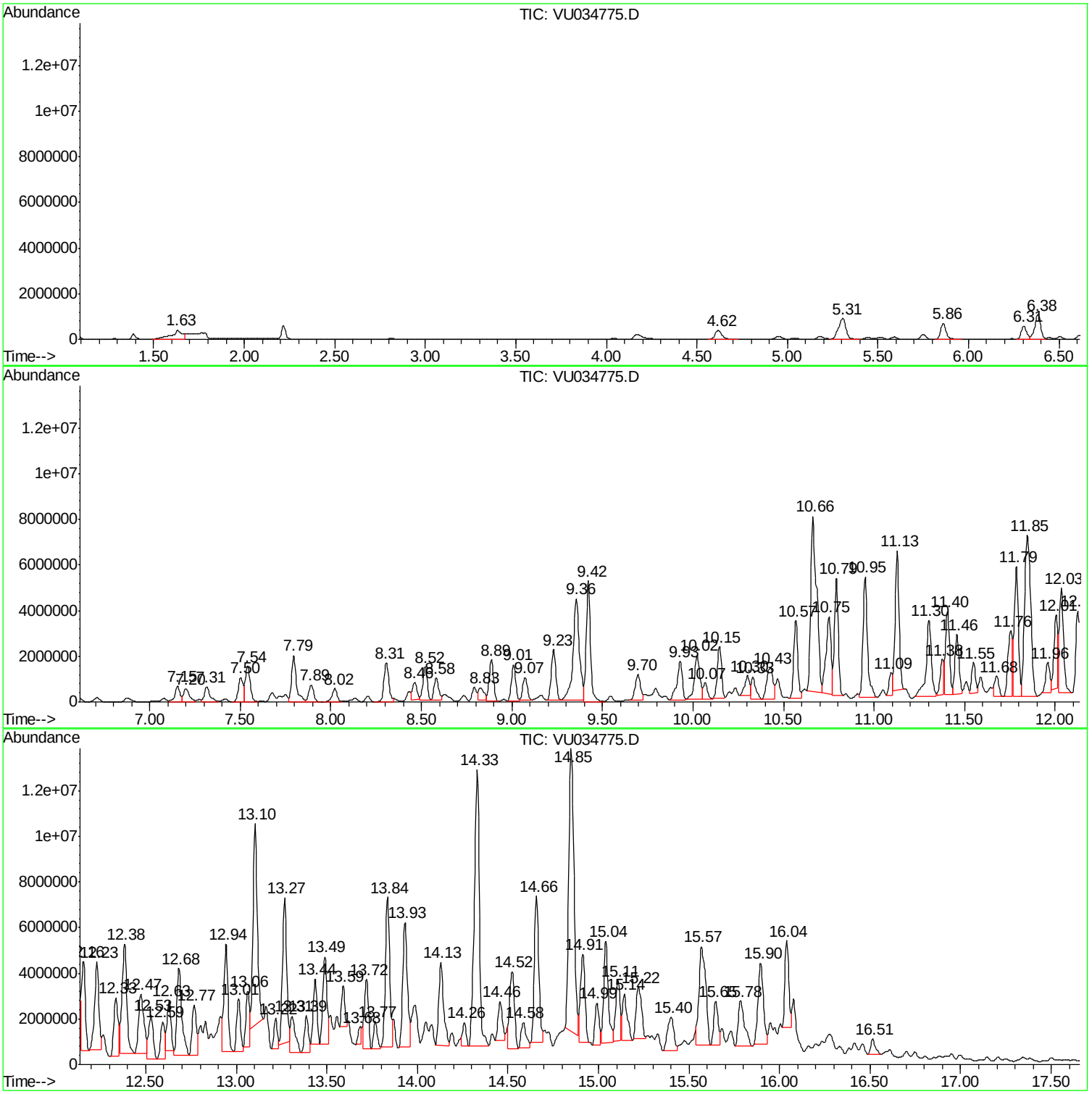
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

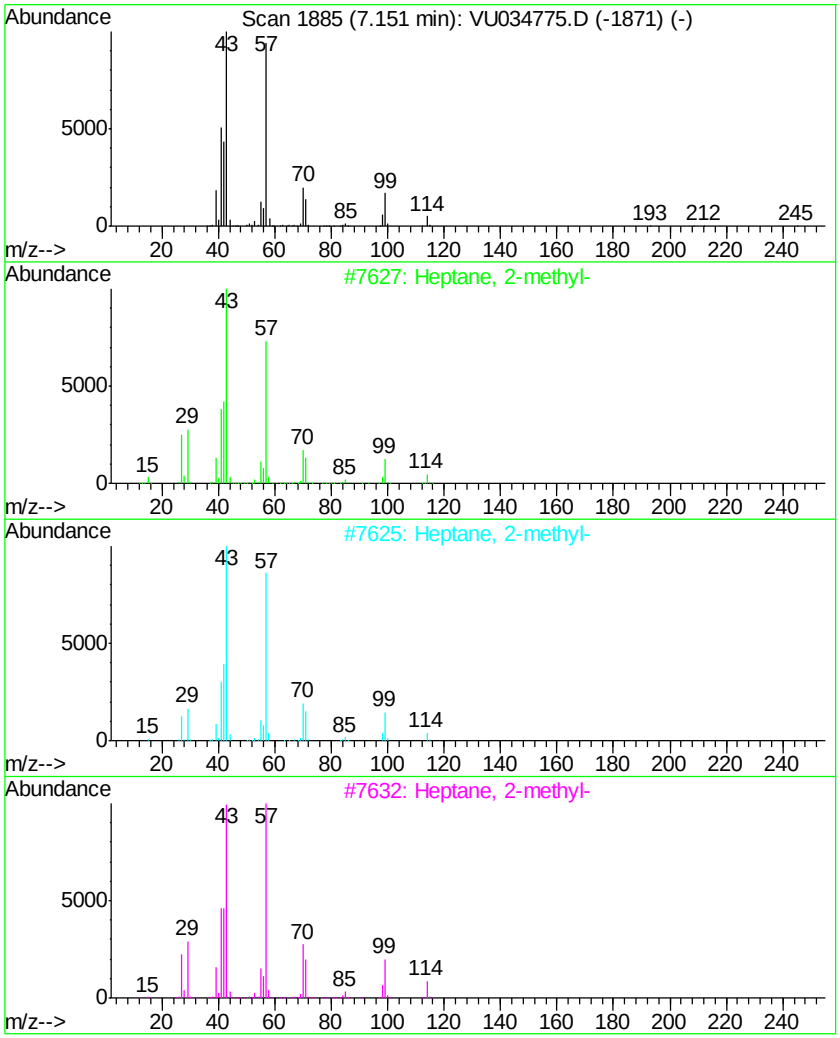
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

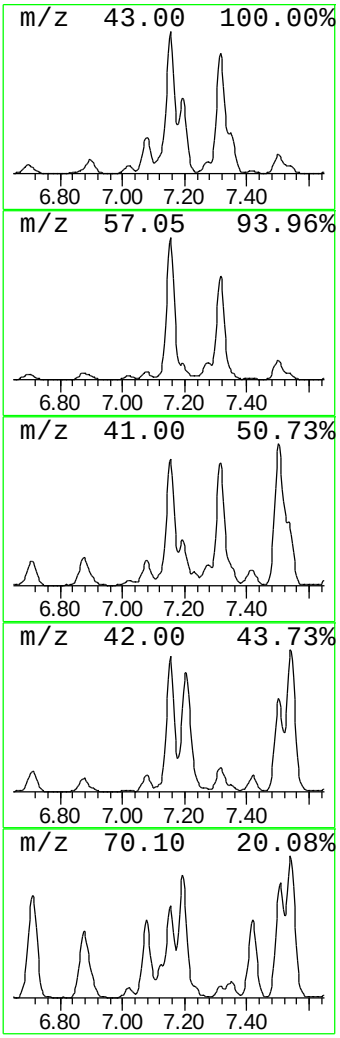
**********

Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 50

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.15 | 45.77 ug/L | 1329480 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 94 |
| 2 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 94 |
| 3 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 90 |
| 4 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 87 |
| 5 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

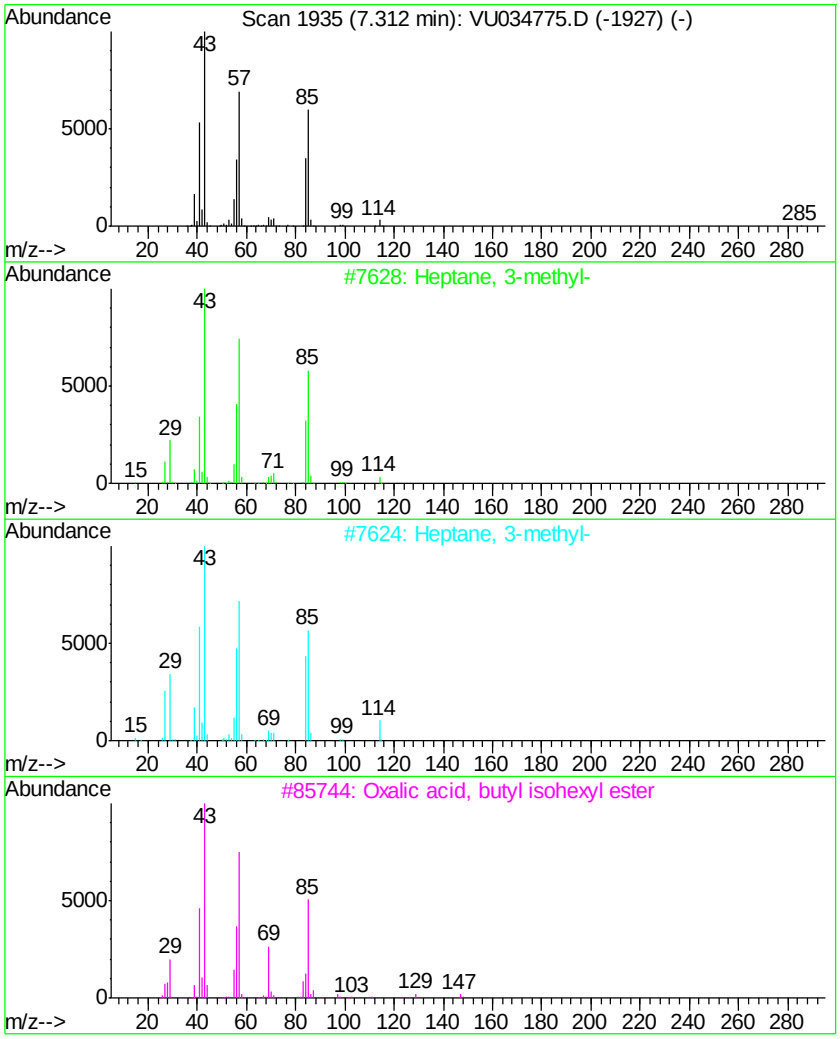
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

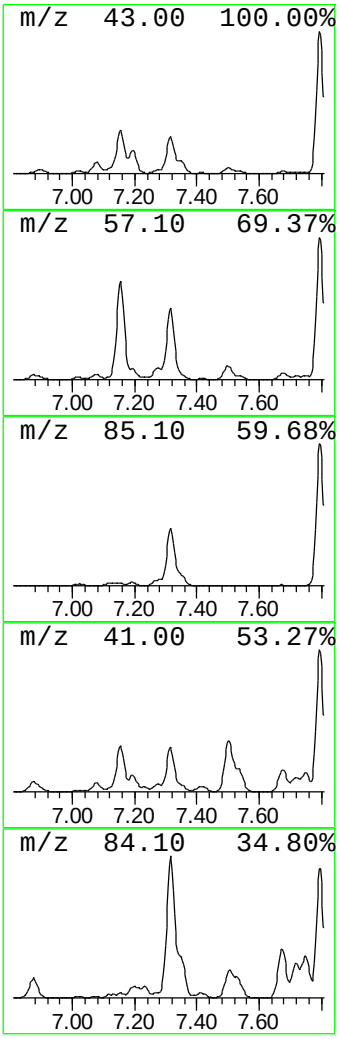
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 49

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.31 | 46.69 ug/L | 1356170 | 1,4-Difluorobenzene | 5.86 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-methyl- | 114 | C8H18 | 000589-81-1 | 91 |
| 2 | Heptane, 3-methyl- | 114 | C8H18 | 000589-81-1 | 90 |
| 3 | Oxalic acid, butyl isohexyl ester | 230 | C12H22O4 | 1000309-32-7 | 72 |
| 4 | Heptane, 3,4,5-trimethyl- | 142 | C10H22 | 020278-89-1 | 72 |
| 5 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 72 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

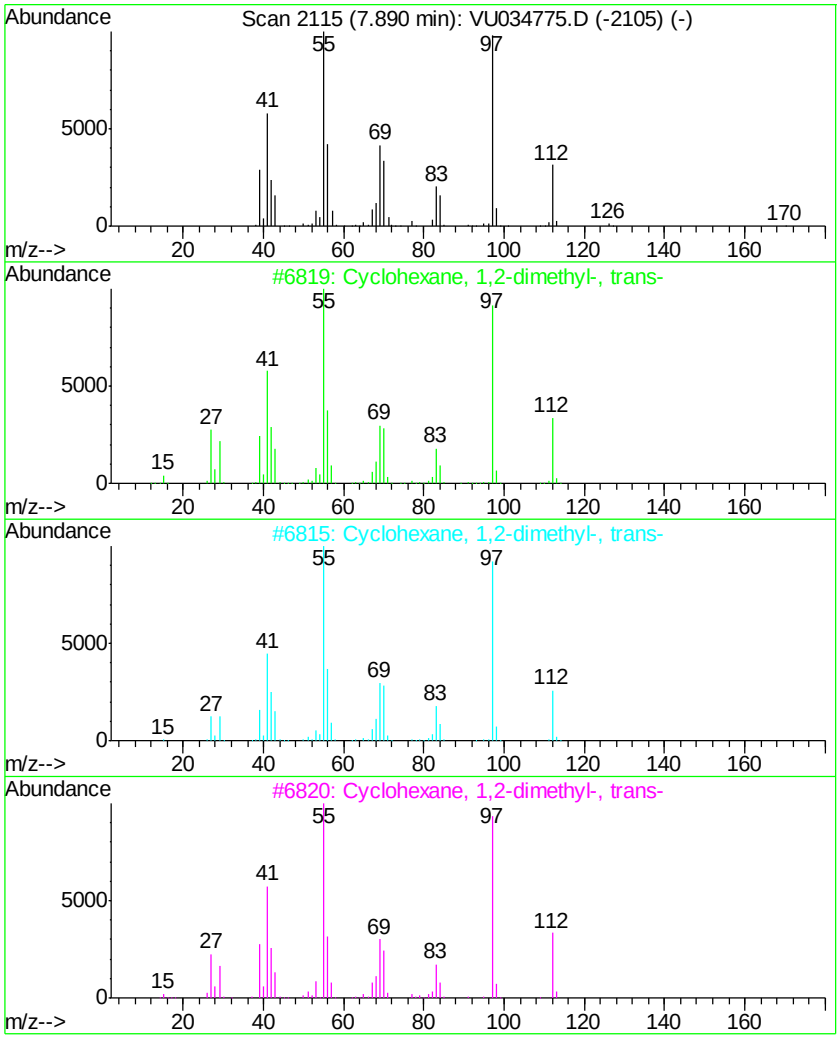
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

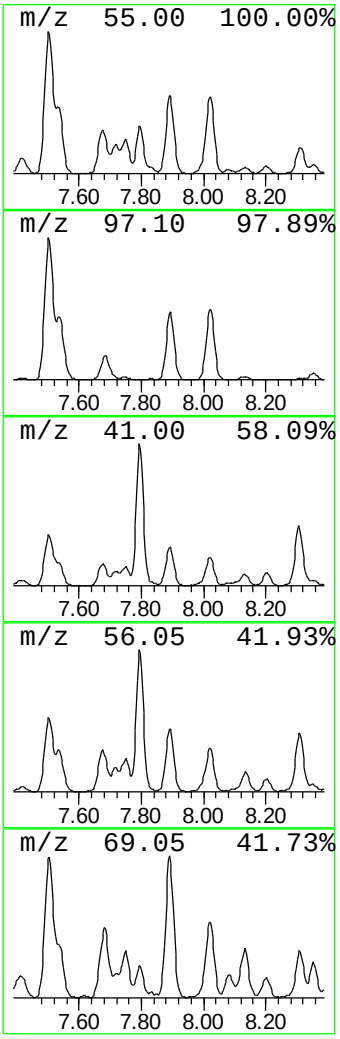
**********

Peak Number 4 (DEL) Alkane: Cyclic7.89 Concentration Rank 56

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.89 | 40.66 ug/L | 1330910 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2-dimethyl-, trans- | 112 | C8H16 | 006876-23-9 | 97 |
| 2 | Cyclohexane, 1,2-dimethyl-, trans- | 112 | C8H16 | 006876-23-9 | 97 |
| 3 | Cyclohexane, 1,2-dimethyl-, trans- | 112 | C8H16 | 006876-23-9 | 95 |
| 4 | Cyclohexane, 1,2-dimethyl- (cis/... | 112 | C8H16 | 000583-57-3 | 94 |
| 5 | Cyclohexane, 1,2-dimethyl- (cis/... | 112 | C8H16 | 000583-57-3 | 87 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

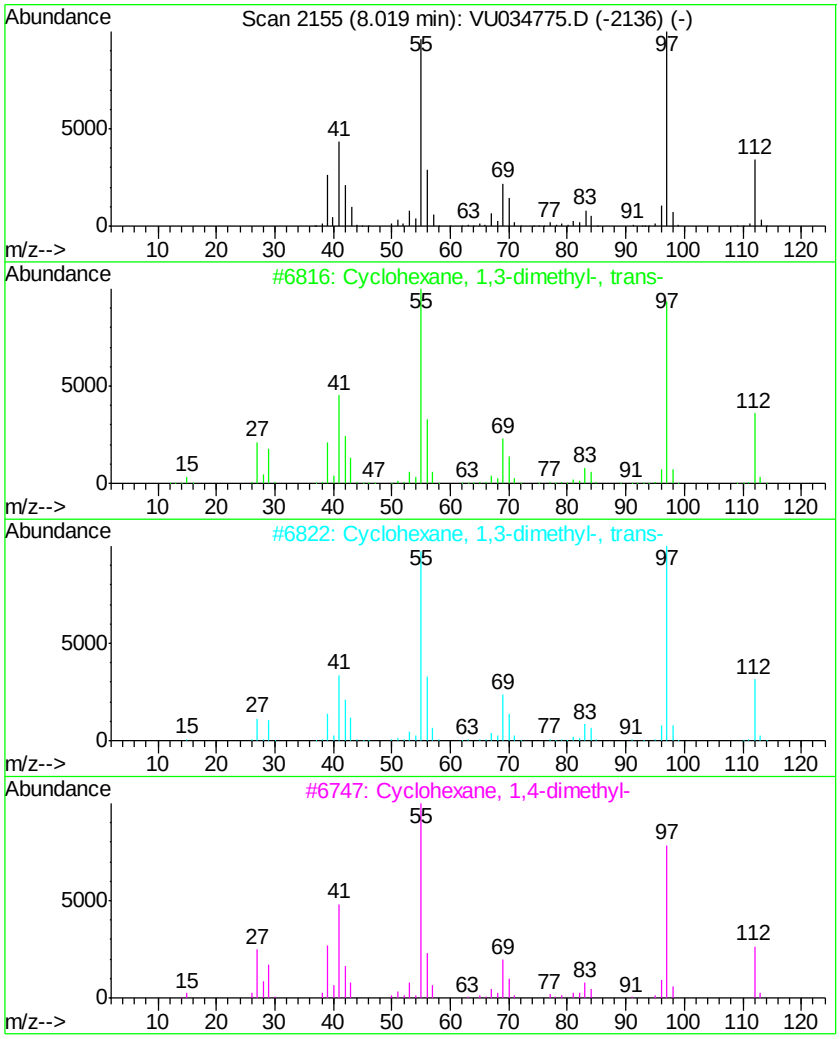
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

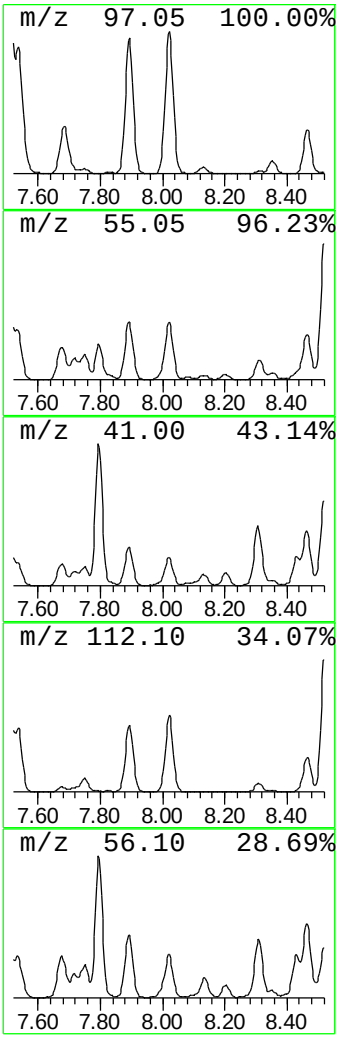
**********

Peak Number 5 (DEL) Alkane: Cyclic8.02 Concentration Rank 65

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.02 | 34.31 ug/L | 1123030 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 97 |
| 2 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 97 |
| 3 | Cyclohexane, 1,4-dimethyl- | 112 | C8H16 | 000589-90-2 | 97 |
| 4 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 97 |
| 5 | Cyclohexane, 1,3-dimethyl-, trans- | 112 | C8H16 | 002207-03-6 | 96 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

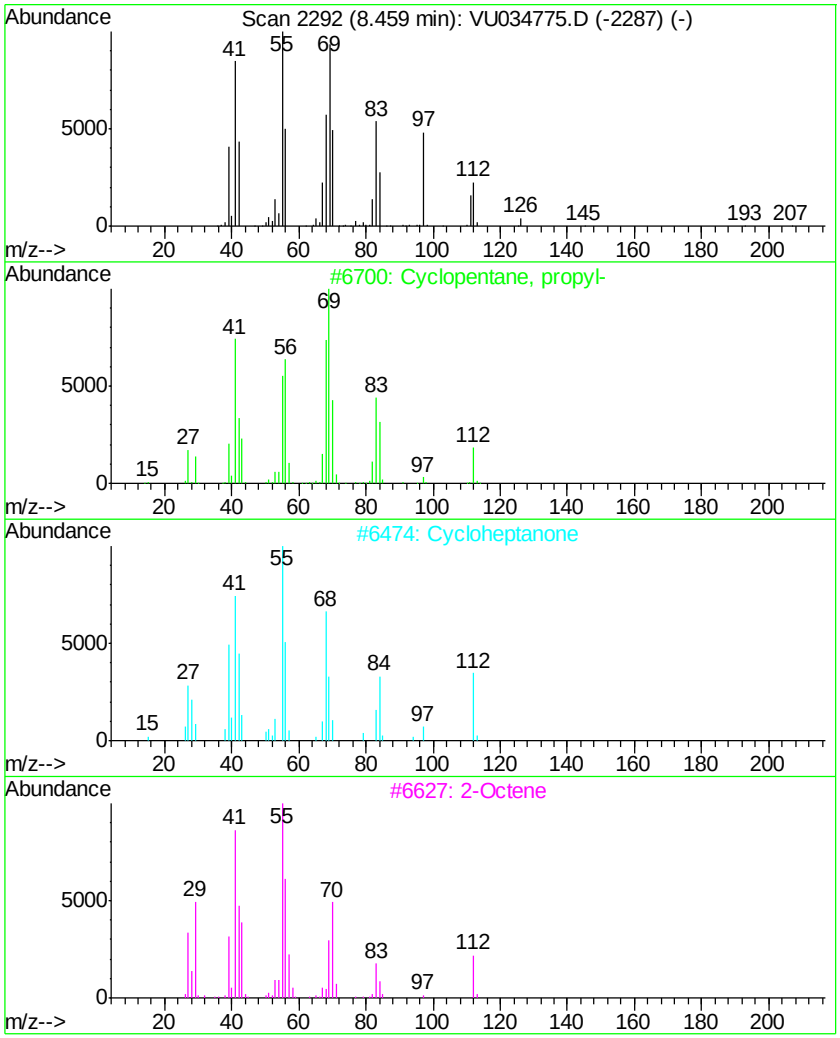
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

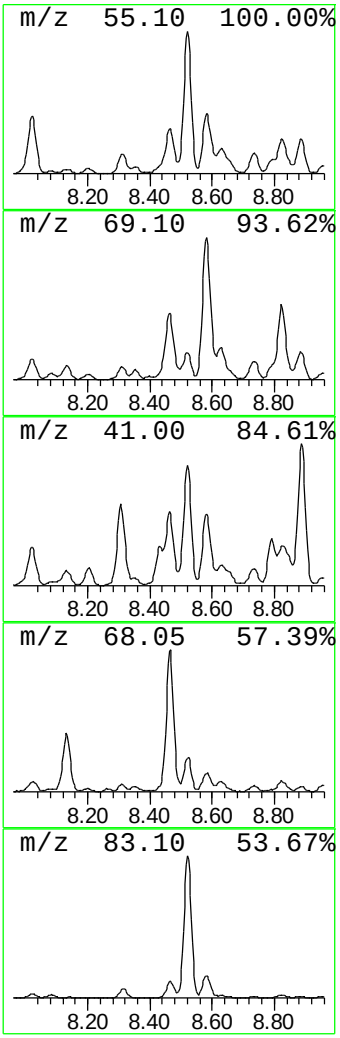
**********

Peak Number 6 (DEL) Alkane: Cyclic8.46 Concentration Rank 61

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.46 | 37.64 ug/L | 1232140 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, propyl- | 112 | C8H16 | 002040-96-2 | 58 |
| 2 | Cycloheptanone | 112 | C7H12O | 000502-42-1 | 50 |
| 3 | 2-Octene | 112 | C8H16 | 000111-67-1 | 42 |
| 4 | 2-Octene | 112 | C8H16 | 000111-67-1 | 42 |
| 5 | 2-Octene, (Z)- | 112 | C8H16 | 007642-04-8 | 42 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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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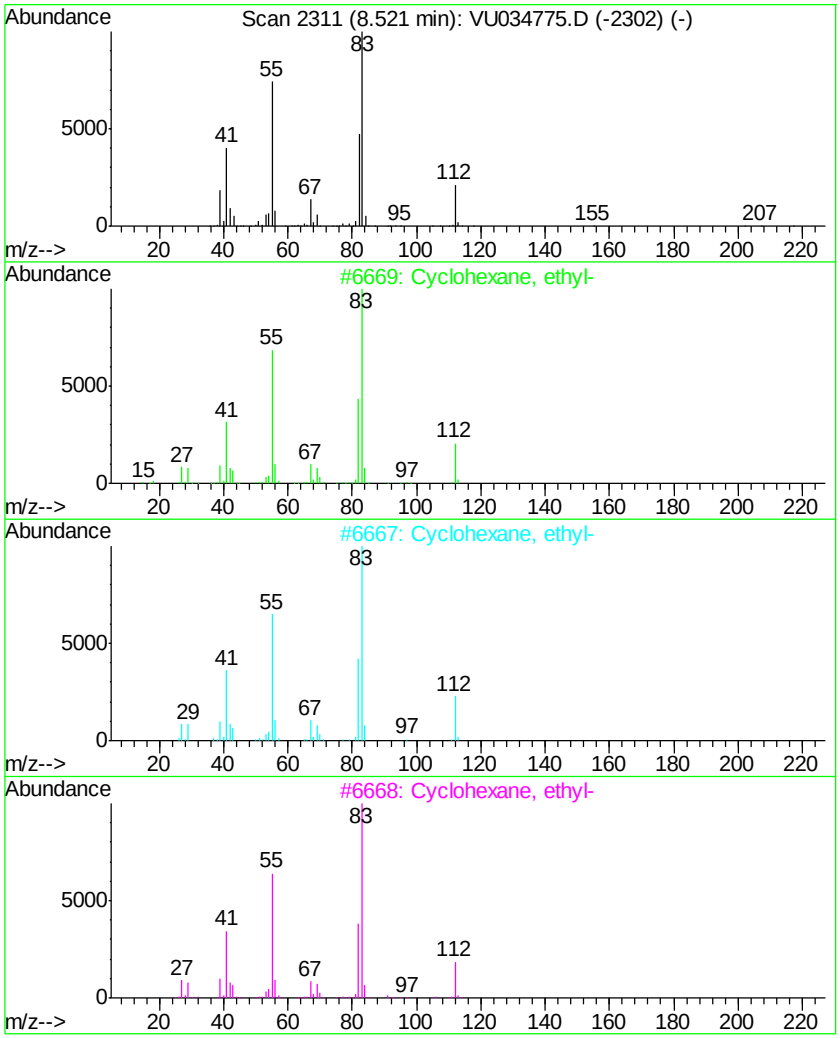
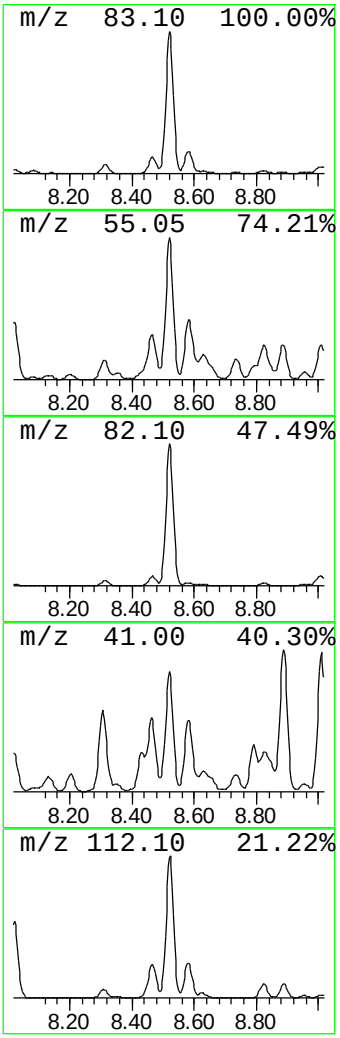
Peak Number 7 (DEL) Alkane: Cyclic8.52 Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.52 | 72.41 ug/L | 2370320 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 87 |
| 2 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 87 |
| 3 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 83 |
| 4 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 81 |
| 5 | Cyclohexane, ethyl- | 112 | C8H16 | 001678-91-7 | 72 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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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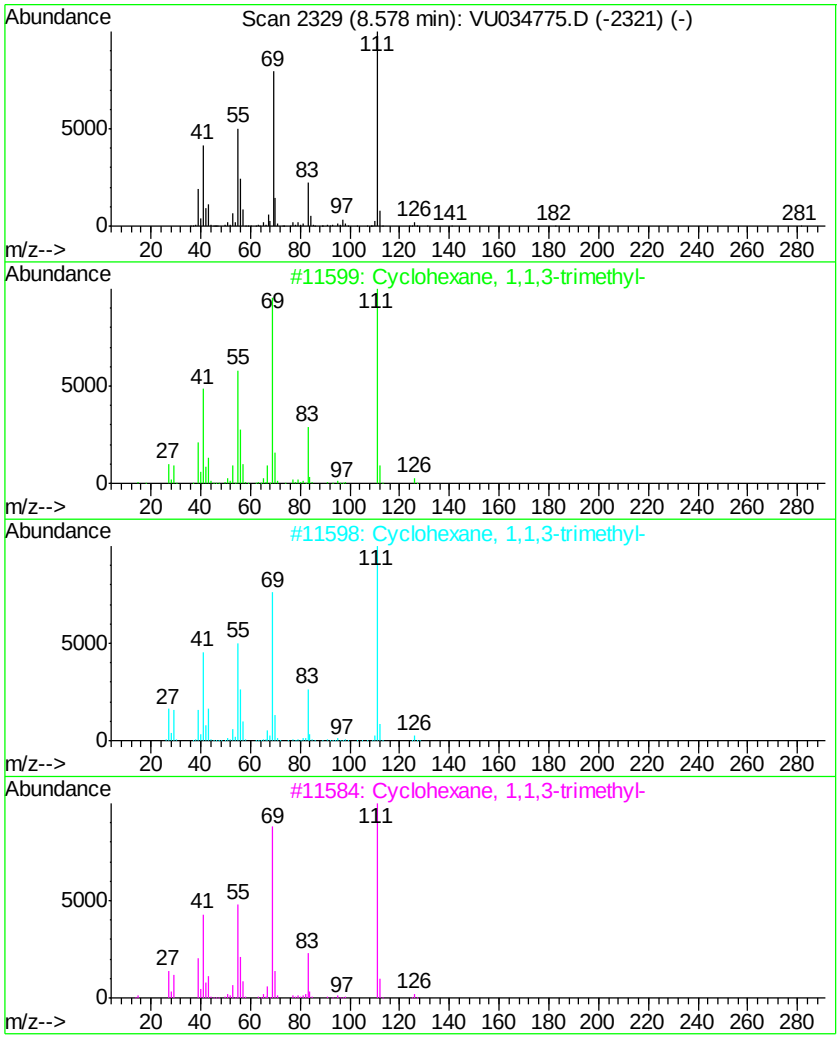
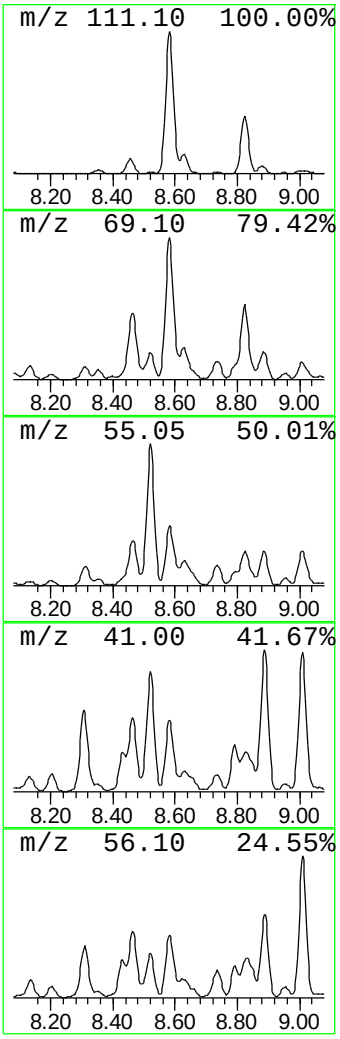
Peak Number 8 (DEL) Alkane: Cyclic8.58 Concentration Rank 46

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.58 | 51.73 ug/L | 1693500 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 95 |
| 2 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 95 |
| 3 | Cyclohexane, 1,1,3-trimethyl- | 126 | C9H18 | 003073-66-3 | 90 |
| 4 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 78 |
| 5 | Cyclohexane, 1,3,5-trimethyl- | 126 | C9H18 | 001839-63-0 | 72 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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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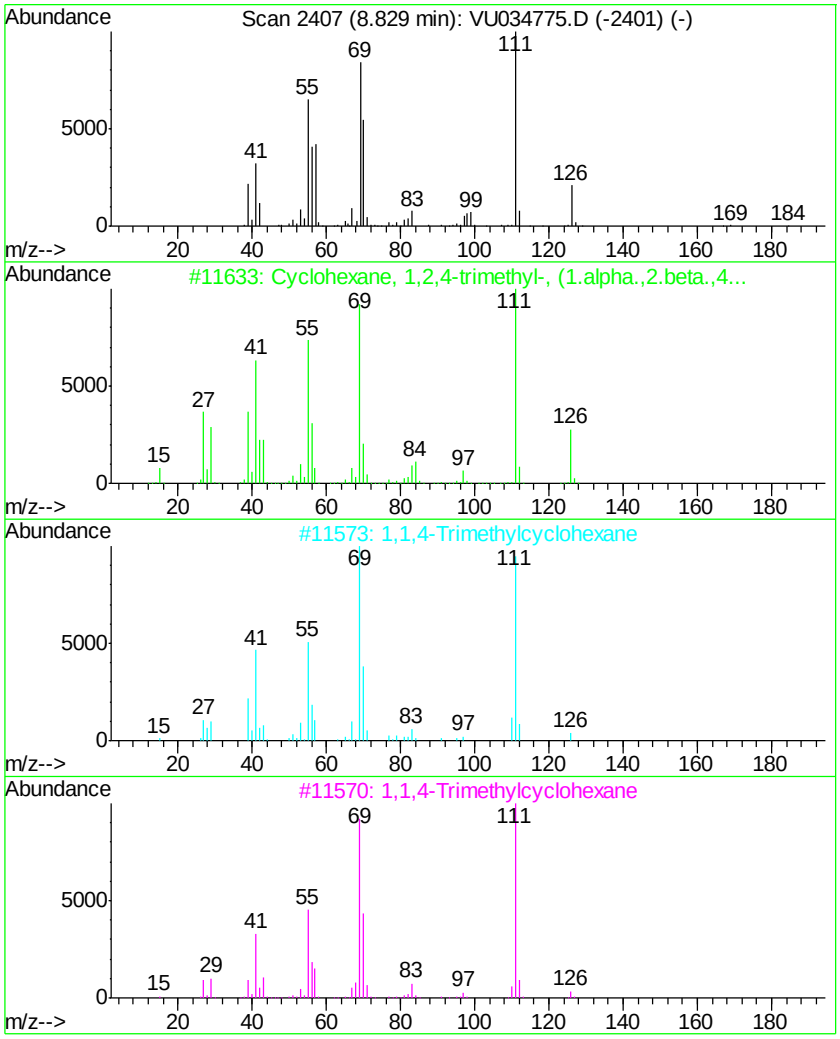
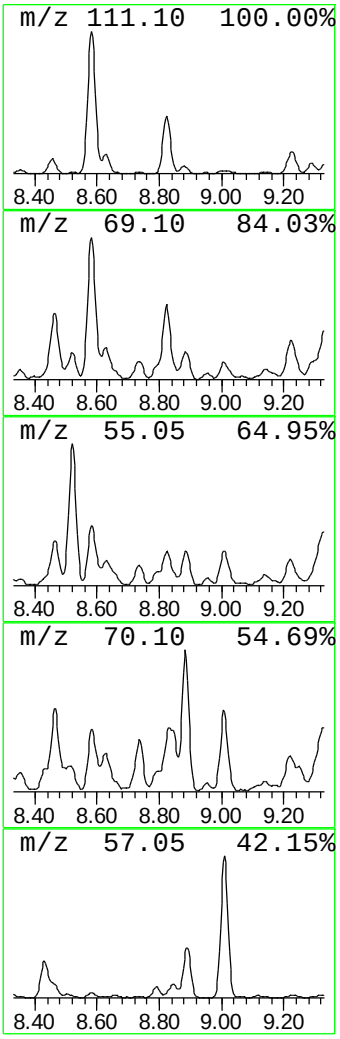
Peak Number 9 (DEL) Alkane: Cyclic8.83 Concentration Rank 62

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.83 | 35.51 ug/L | 1162550 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1,2,4-trimethyl-, (... | 126 | C9H18 | 007667-60-9 | 74 |
| 2 | 1,1,4-Trimethylcyclohexane | 126 | C9H18 | 007094-27-1 | 72 |
| 3 | 1,1,4-Trimethylcyclohexane | 126 | C9H18 | 007094-27-1 | 72 |
| 4 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-27-3 | 64 |
| 5 | Cyclohexane, 1,3,5-trimethyl-, (... | 126 | C9H18 | 001795-26-2 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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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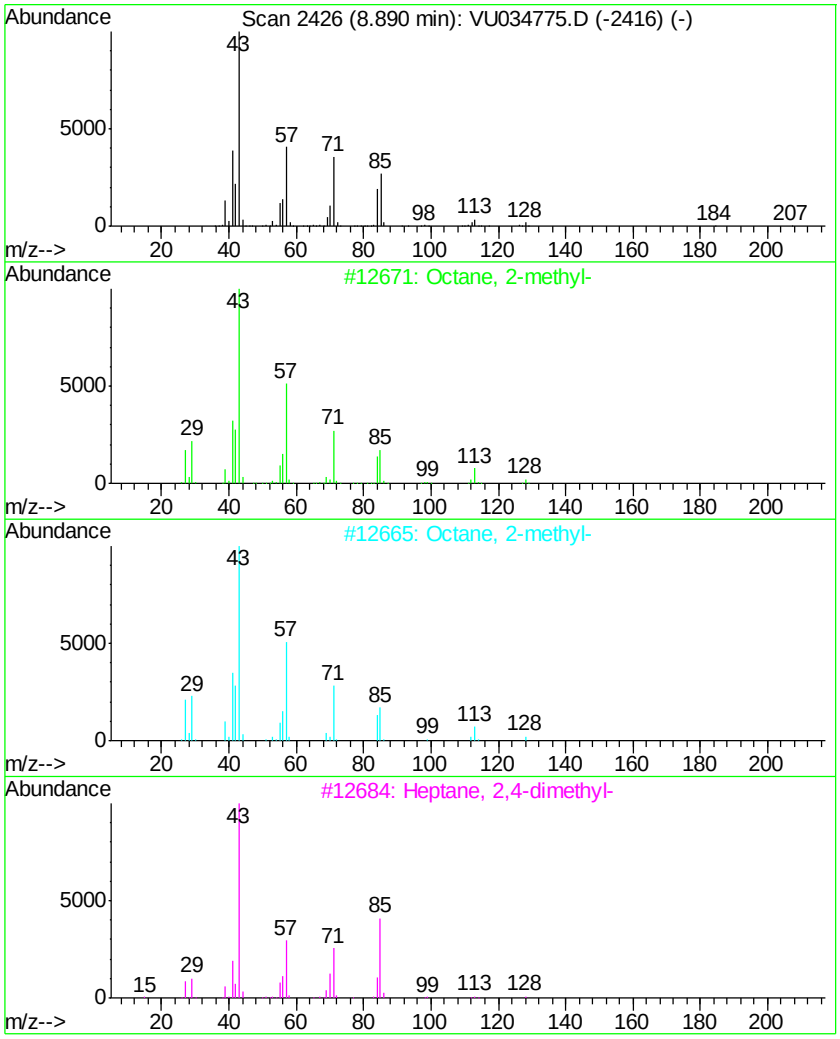
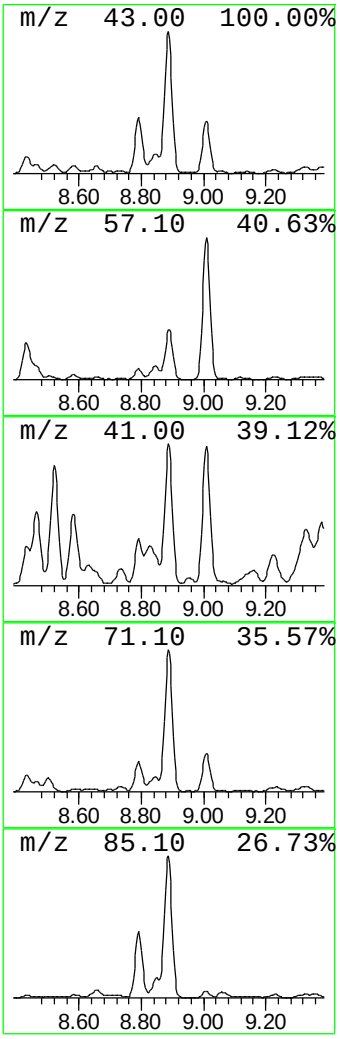
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.89 | 95.82 ug/L | 3136630 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2-methyl- | 128 | C9H20 | 003221-61-2 | 64 |
| 2 | Octane, 2-methyl- | 128 | C9H20 | 003221-61-2 | 59 |
| 3 | Heptane, 2,4-dimethyl- | 128 | C9H20 | 002213-23-2 | 58 |
| 4 | Hexane, 2,3,5-trimethyl- | 128 | C9H20 | 001069-53-0 | 53 |
| 5 | Octane, 4-methyl- | 128 | C9H20 | 002216-34-4 | 52 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

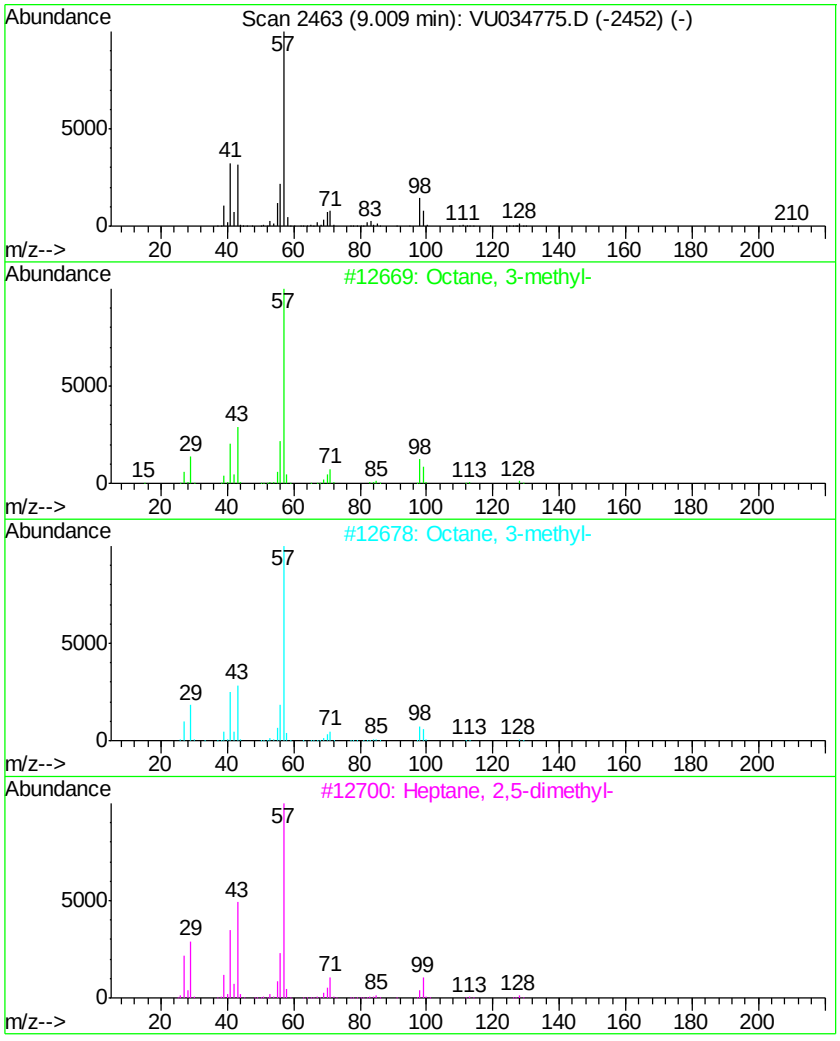
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

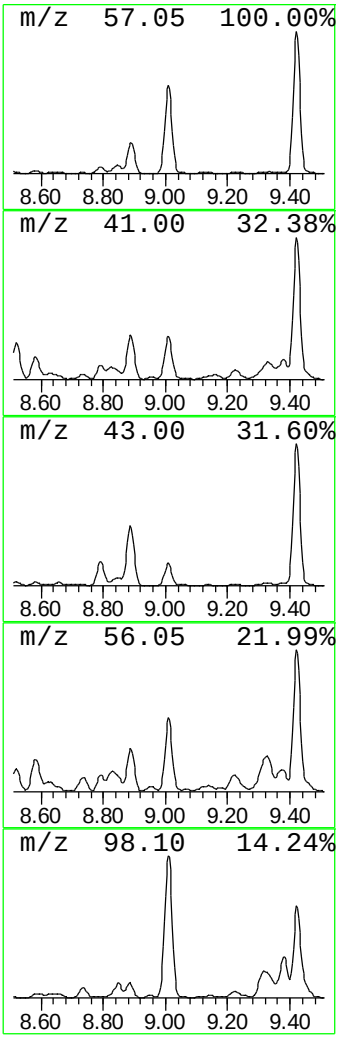
**********

Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.01 | 79.91 ug/L | 2616050 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 3-methyl- | 128 | C9H20 | 002216-33-3 | 91 |
| 2 | Octane, 3-methyl- | 128 | C9H20 | 002216-33-3 | 78 |
| 3 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 68 |
| 4 | Undecane, 6-methyl- | 170 | C12H26 | 017302-33-9 | 59 |
| 5 | Heptane, 3,5-dimethyl- | 128 | C9H20 | 000926-82-9 | 59 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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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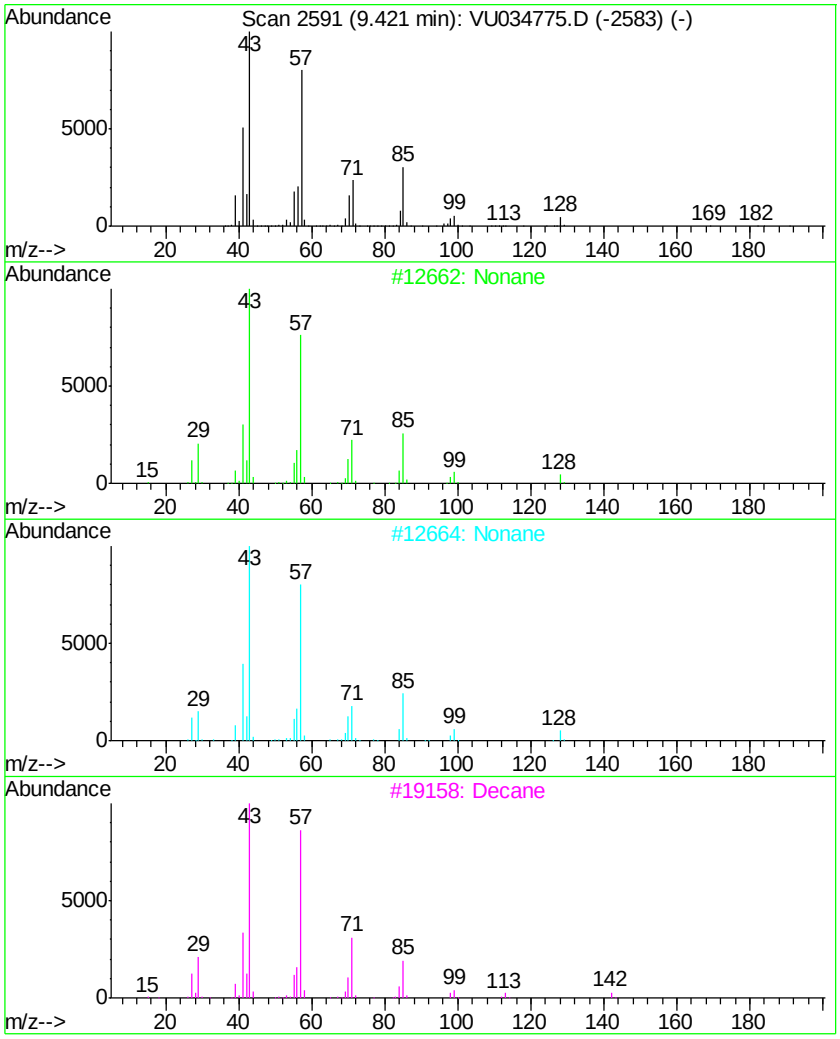
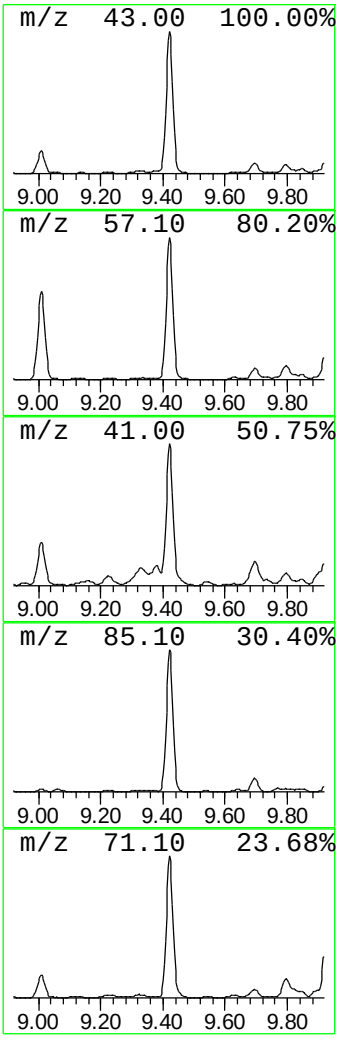
Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.42 | 263.36 ug/L | 8621350 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane | 128 | C9H20 | 000111-84-2 | 94 |
| 2 | Nonane | 128 | C9H20 | 000111-84-2 | 90 |
| 3 | Decane | 142 | C10H22 | 000124-18-5 | 64 |
| 4 | Octane | 114 | C8H18 | 000111-65-9 | 59 |
| 5 | Octane | 114 | C8H18 | 000111-65-9 | 59 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

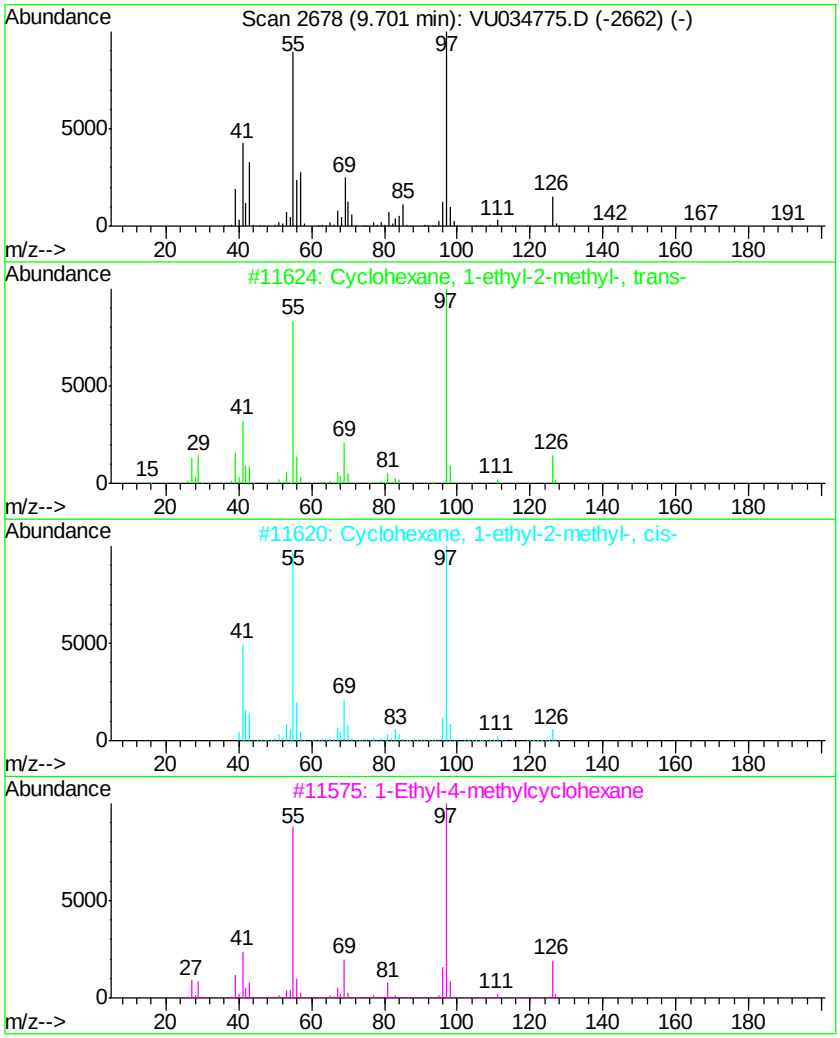
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

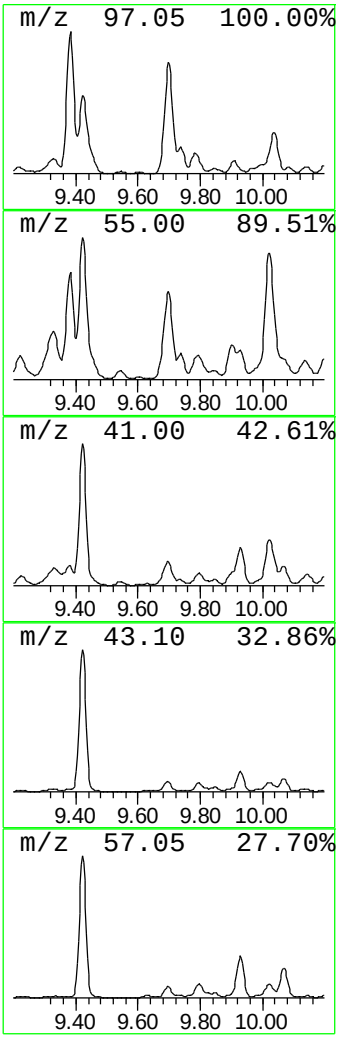
**********

Peak Number 13 (DEL) Alkane: Cyclic9.70 Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.70 | 72.46 ug/L | 2371880 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-78-8 | 81 |
| 2 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-77-7 | 78 |
| 3 | 1-Ethyl-4-methylcyclohexane | 126 | C9H18 | 003728-56-1 | 76 |
| 4 | Cyclohexane, 1-ethyl-2-methyl- | 126 | C9H18 | 003728-54-9 | 68 |
| 5 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 64 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

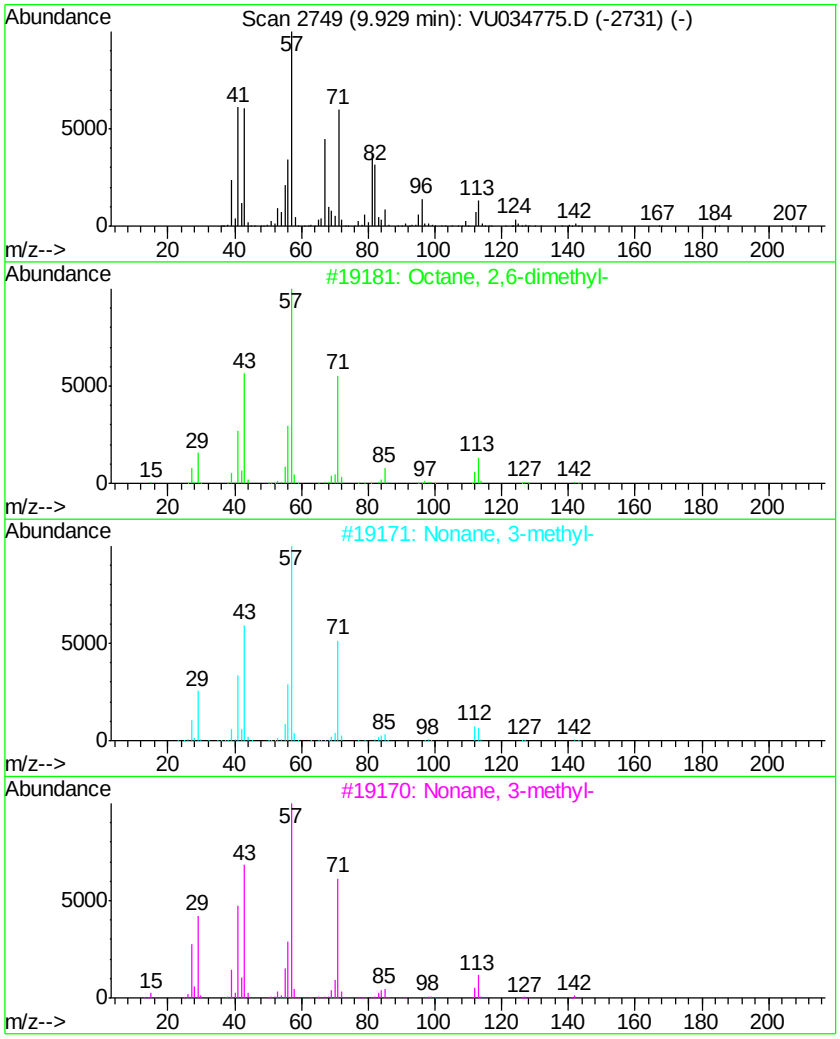
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

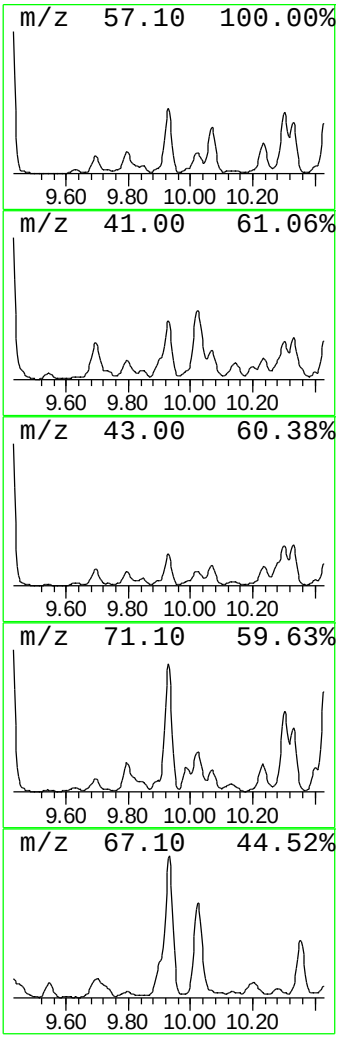
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.93 | 101.65 ug/L | 3327430 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 87 |
| 2 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 55 |
| 3 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 55 |
| 4 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 55 |
| 5 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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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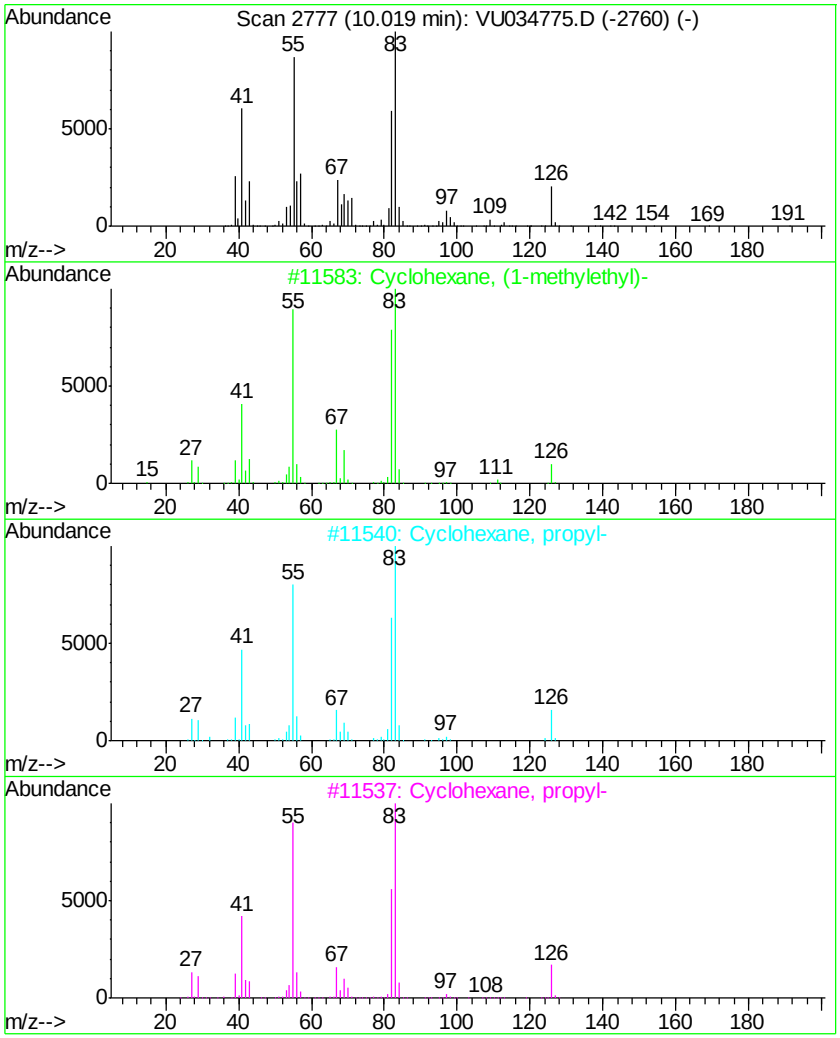
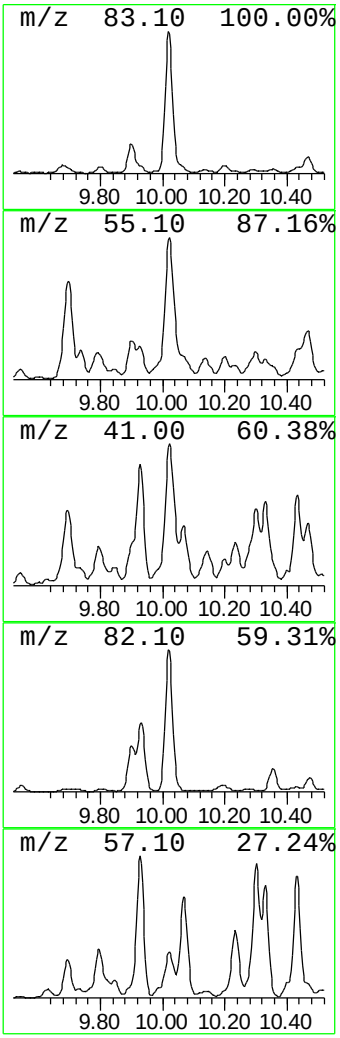
Peak Number 15 (DEL) Alkane: Cyclic10.02 Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.02 | 120.82 ug/L | 3955210 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, (1-methylethyl)- | 126 | C9H18 | 000696-29-7 | 83 |
| 2 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 80 |
| 3 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 72 |
| 4 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 72 |
| 5 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

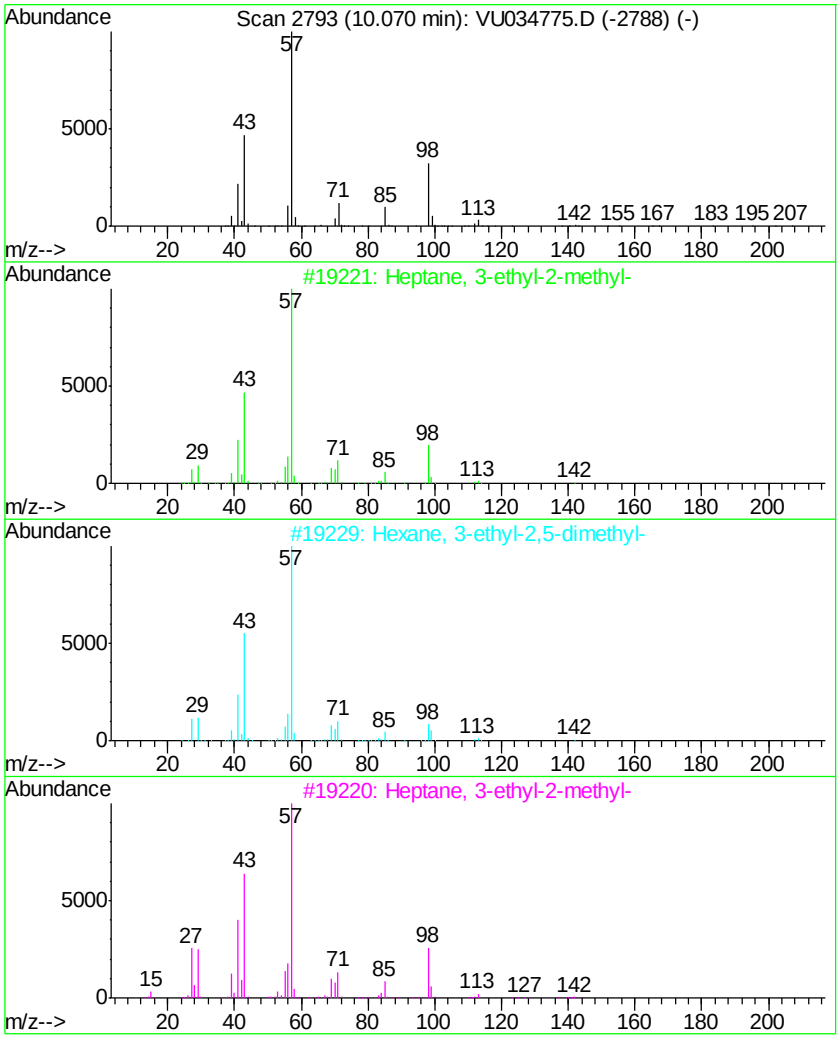
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

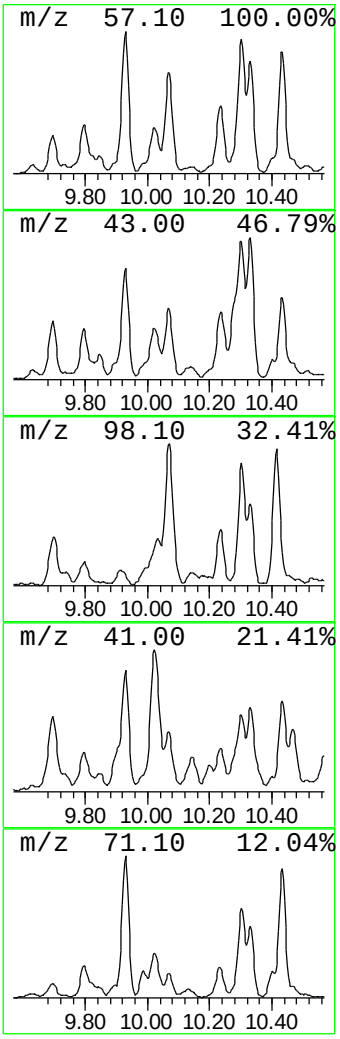
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 67

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.07 | 31.55 ug/L | 1032780 | Chlorobenzene-d5 | 9.07 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-ethyl-2-methyl- | 142 | C10H22 | 014676-29-0 | 83 |
| 2 | Hexane, 3-ethyl-2,5-dimethyl- | 142 | C10H22 | 052897-04-8 | 64 |
| 3 | Heptane, 3-ethyl-2-methyl- | 142 | C10H22 | 014676-29-0 | 59 |
| 4 | 1,3,2-Dioxaborolane, 4,4-dimethy... | 142 | C6H11BO3 | 1000063-89-2 | 50 |
| 5 | Heptane, 3,5-dimethyl- | 128 | C9H20 | 000926-82-9 | 47 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

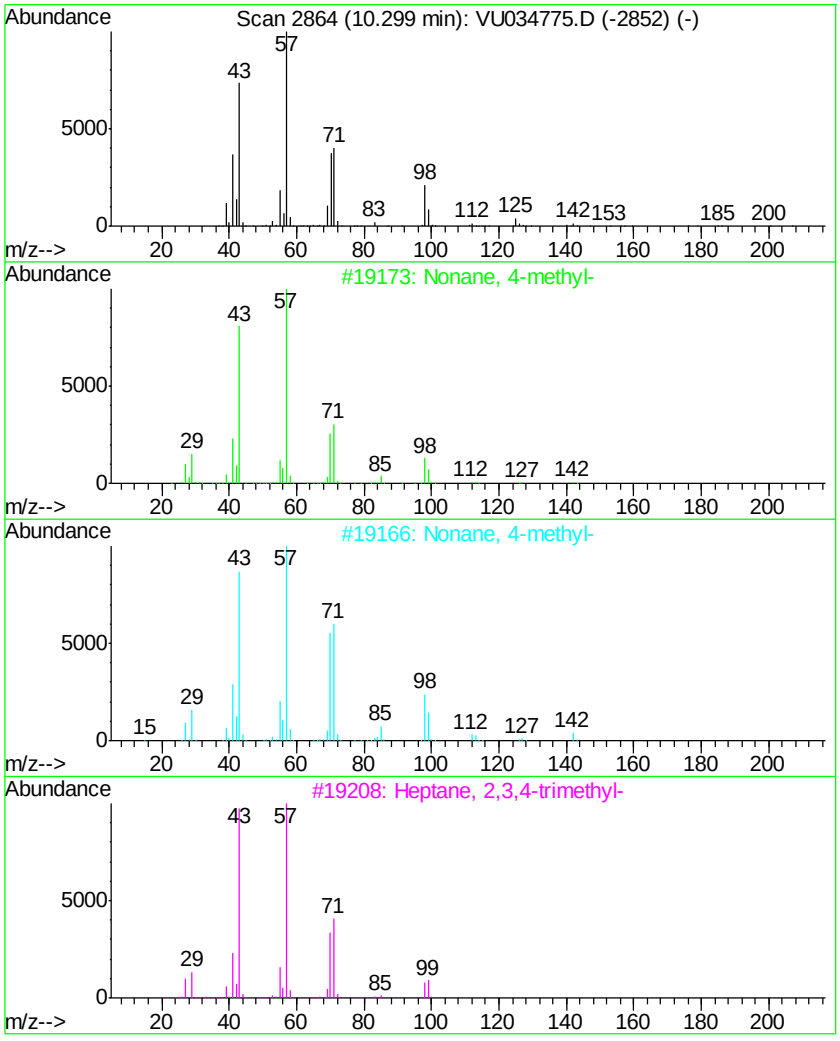
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

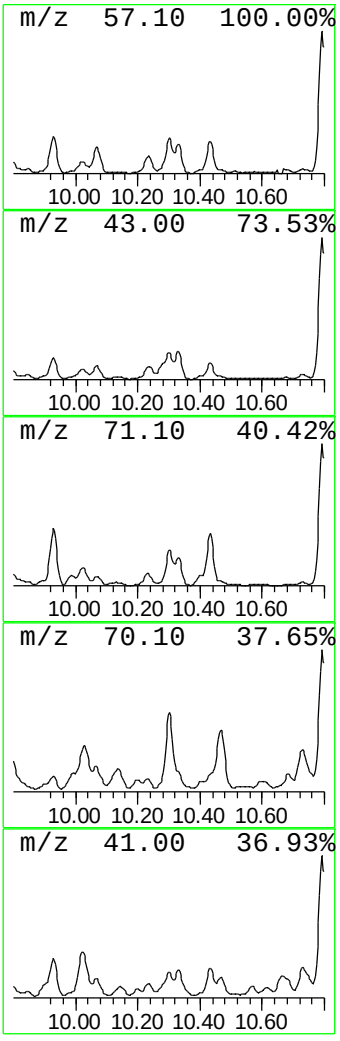
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 77

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.30 | 19.94 ug/L | 1677280 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 4-methyl- | 142 | C10H22 | 017301-94-9 | 80 |
| 2 | Nonane, 4-methyl- | 142 | C10H22 | 017301-94-9 | 59 |
| 3 | Heptane, 2,3,4-trimethyl- | 142 | C10H22 | 052896-95-4 | 59 |
| 4 | Octane, 3,5-dimethyl- | 142 | C10H22 | 015869-93-9 | 58 |
| 5 | Pentane, 2,2,3,3-tetramethyl- | 128 | C9H20 | 007154-79-2 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

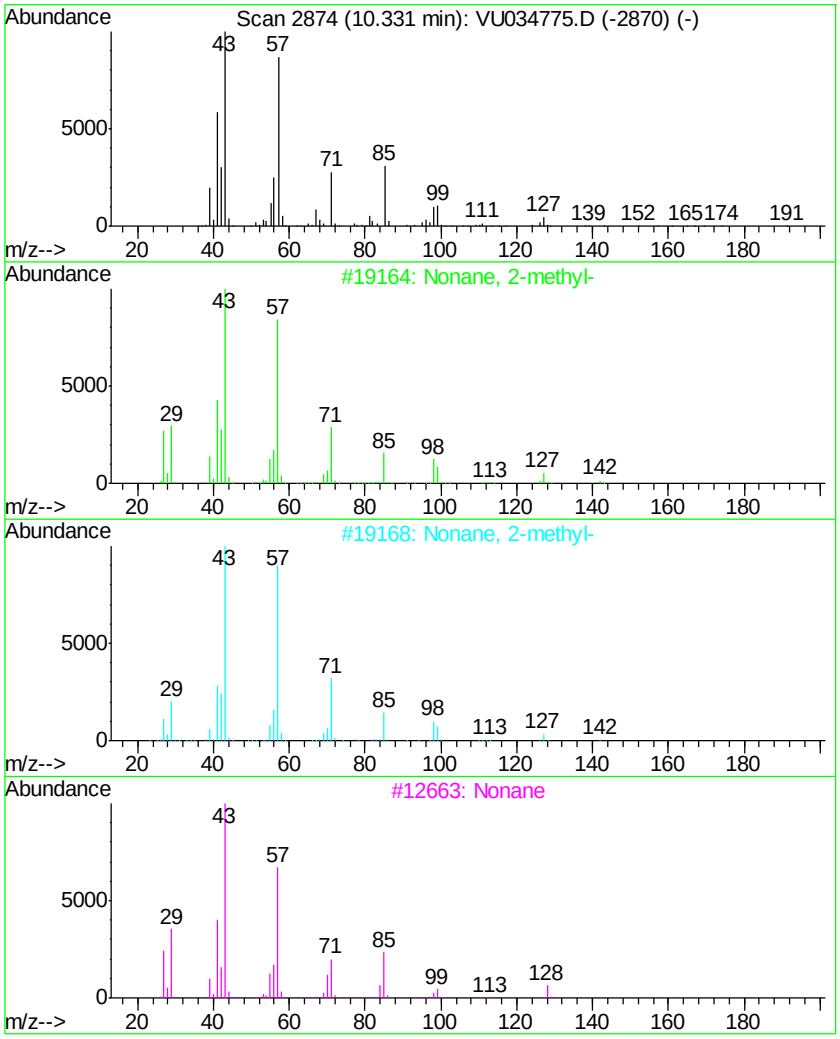
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

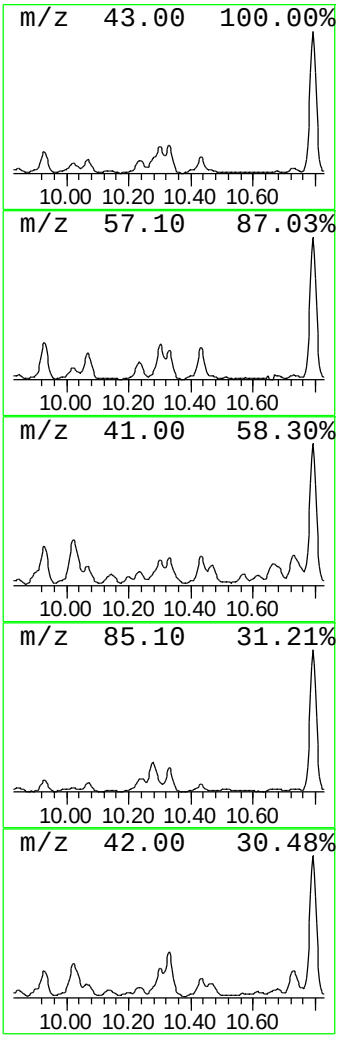
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 18 (DEL) Alkane: Straight-Chai... Concentration Rank 78

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.33 | 19.48 ug/L | 1638730 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane, 2-methyl- | 142 | C10H22 | 000871-83-0 | 64 |
| 2 | Nonane, 2-methyl- | 142 | C10H22 | 000871-83-0 | 64 |
| 3 | Nonane | 128 | C9H20 | 000111-84-2 | 59 |
| 4 | Undecane, 2-methyl- | 170 | C12H26 | 007045-71-8 | 59 |
| 5 | Decane, 2,5,6-trimethyl- | 184 | C13H28 | 062108-23-0 | 53 |



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Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

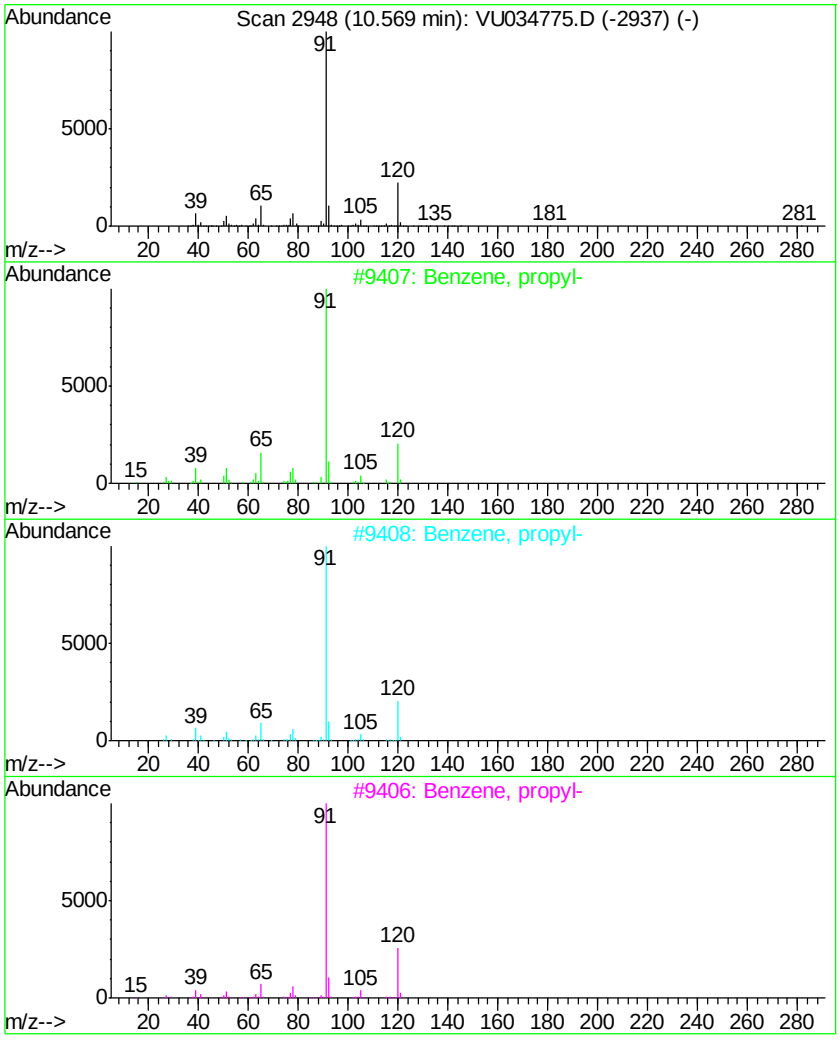
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

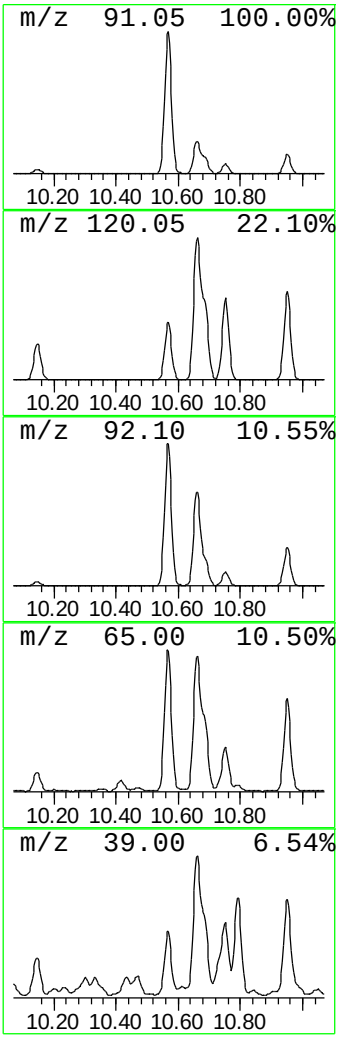
**********

Peak Number 19 Benzene, propyl- Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.57 | 62.56 ug/L | 5263700 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 91 |
| 2 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 90 |
| 3 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 87 |
| 4 | Phenethylamine, N-benzyl-p-chloro- | 245 | C15H16ClN | 013622-43-0 | 72 |
| 5 | Ethanol, 2-[(phenylmethyl)amino]- | 151 | C9H13NO | 000104-63-2 | 72 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

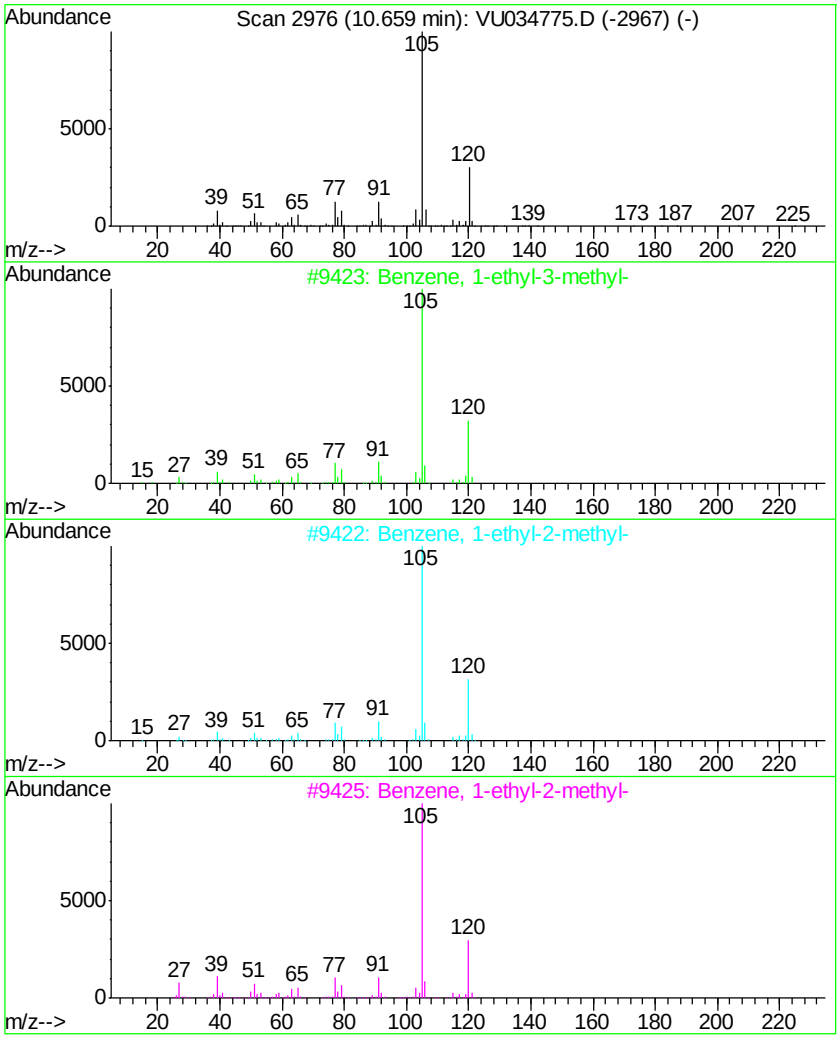
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

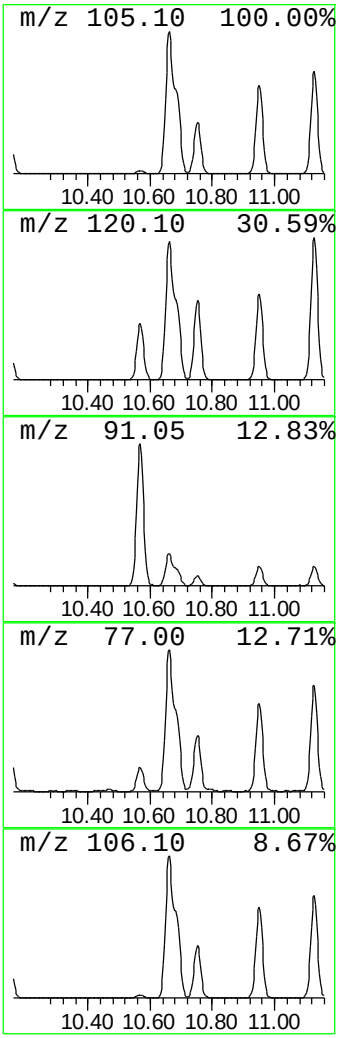
**********

Peak Number 20 Benzene, 1-ethyl-3-methyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.66 | 207.33 ug/L | 17443600 | 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 | 95 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 3 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 94 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 91 |



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Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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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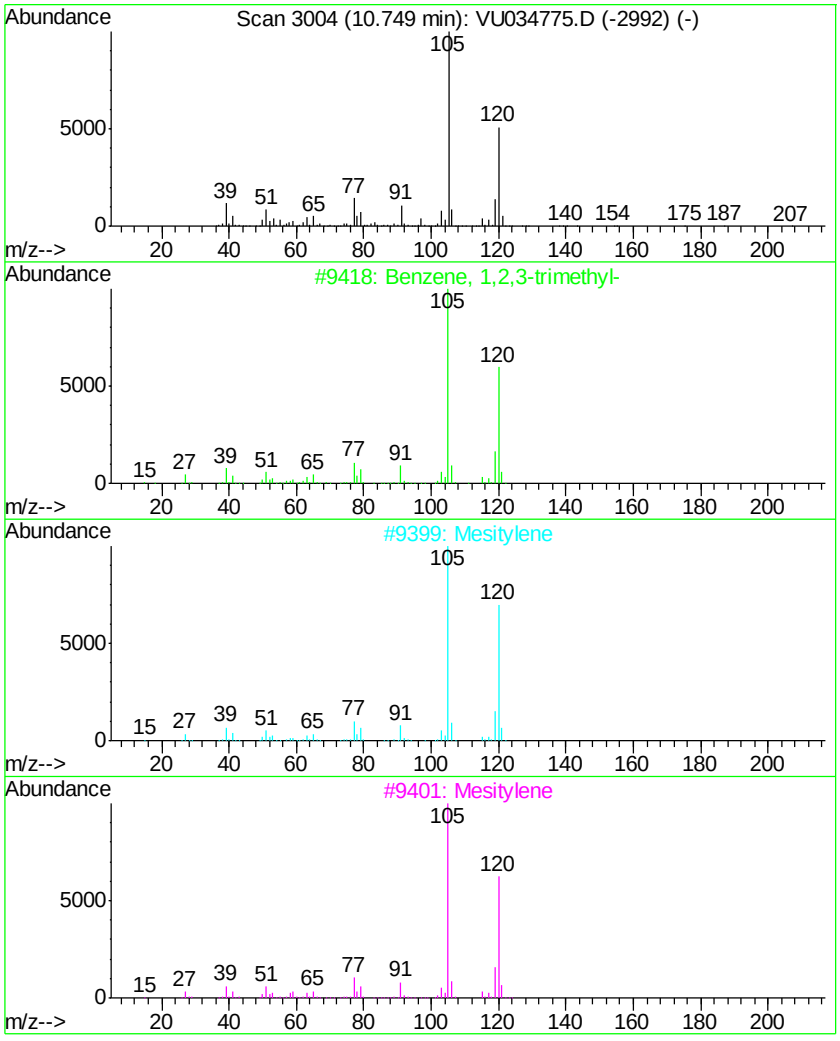
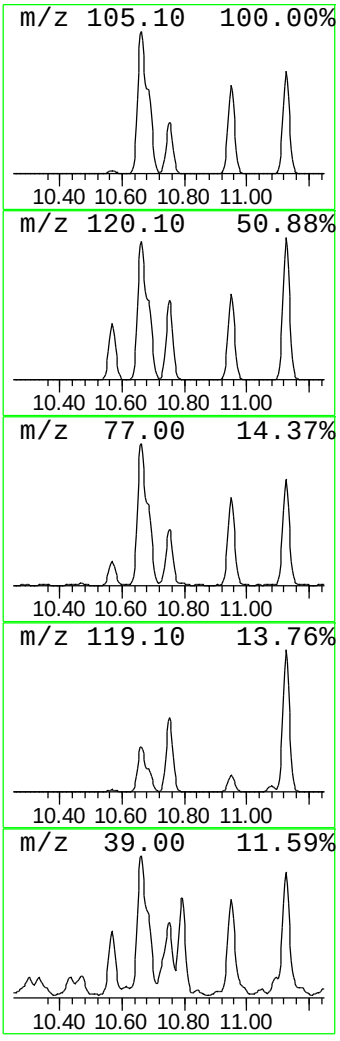
Peak Number 21 Benzene, 1,2,3-trimethyl- Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.75 | 79.50 ug/L | 6688910 | 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 | Mesitylene | 120 | C9H12 | 000108-67-8 | 97 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 95 |
| 4 | Mesitylene | 120 | C9H12 | 000108-67-8 | 95 |
| 5 | Mesitylene | 120 | C9H12 | 000108-67-8 | 95 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

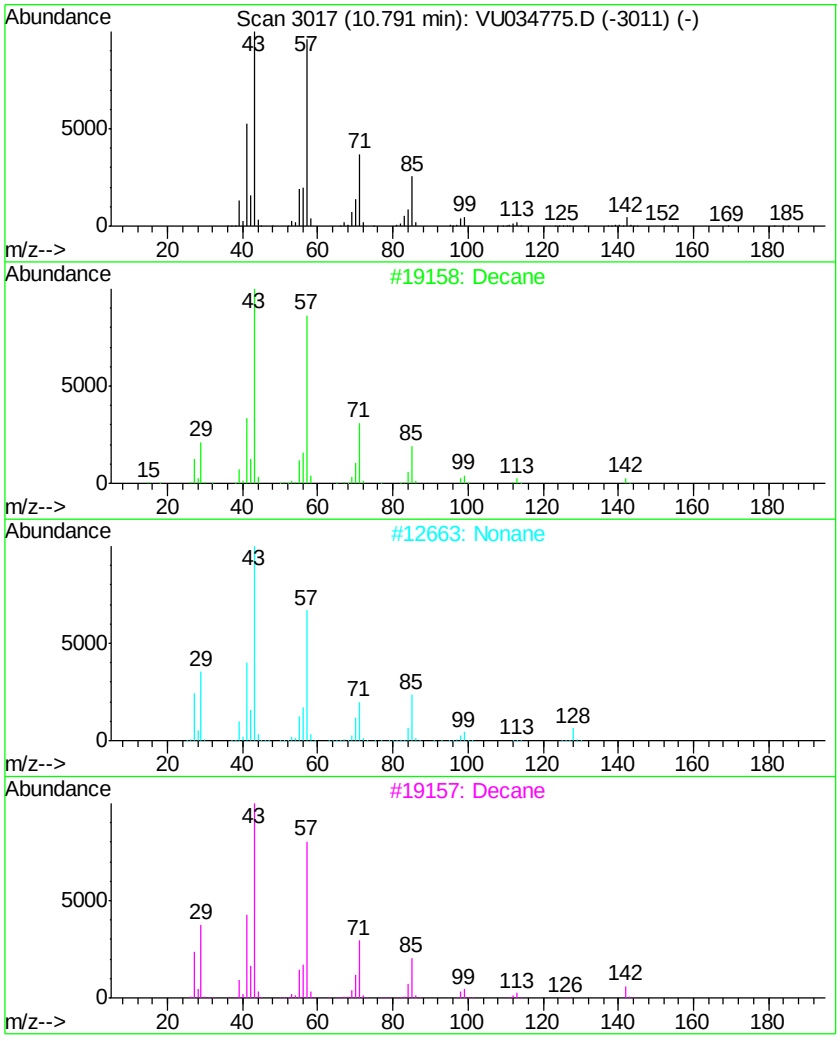
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

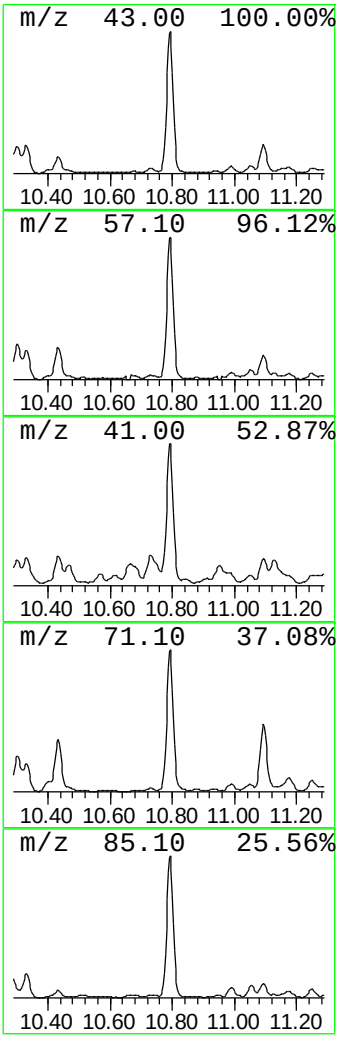
**********

Peak Number 22 (DEL) Alkane: Straight-Chai... Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.79 | 89.63 ug/L | 7540570 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane | 142 | C10H22 | 000124-18-5 | 94 |
| 2 | Nonane | 128 | C9H20 | 000111-84-2 | 90 |
| 3 | Decane | 142 | C10H22 | 000124-18-5 | 80 |
| 4 | Undecane | 156 | C11H24 | 001120-21-4 | 64 |
| 5 | Tridecane | 184 | C13H28 | 000629-50-5 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

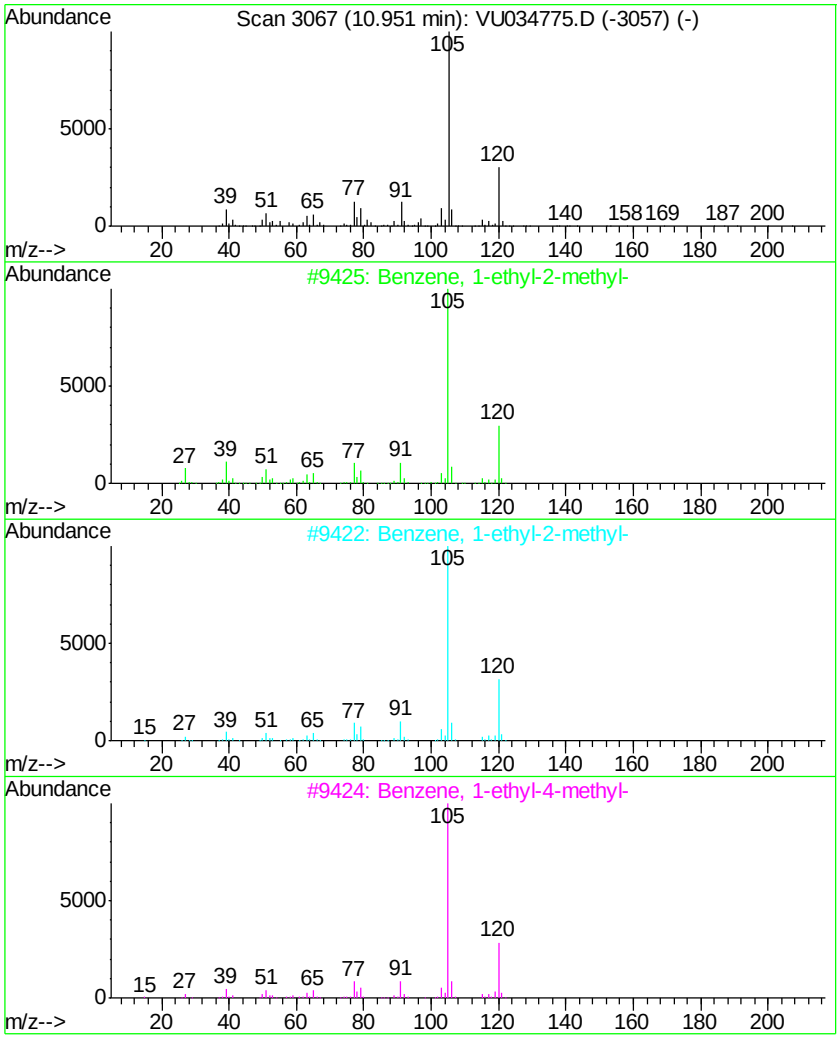
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

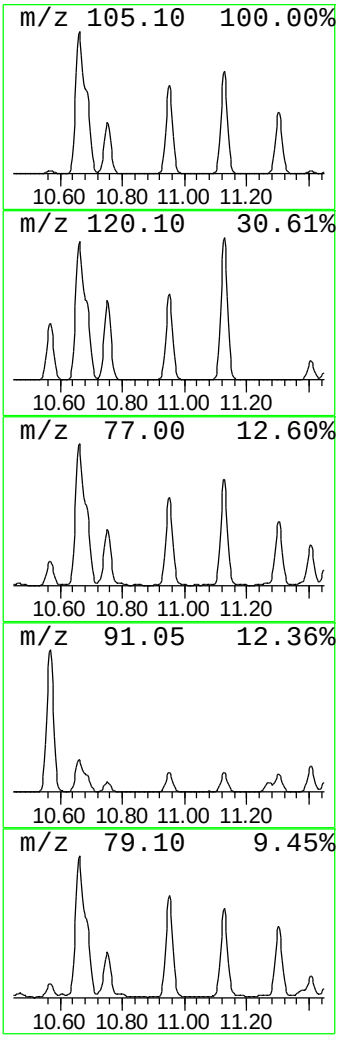
**********

Peak Number 23 Benzene, 1-ethyl-2-methyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.95 | 107.90 ug/L | 9077570 | 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 | 93 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 93 |
| 3 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 90 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 90 |
| 5 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 90 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

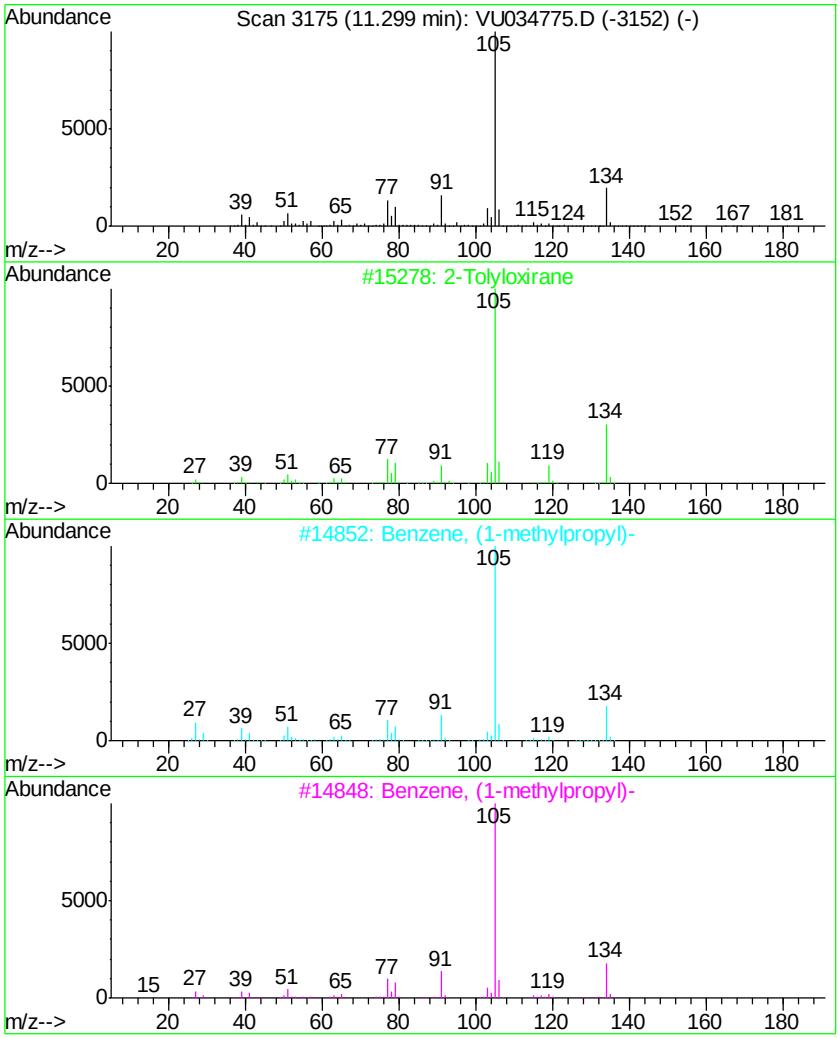
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

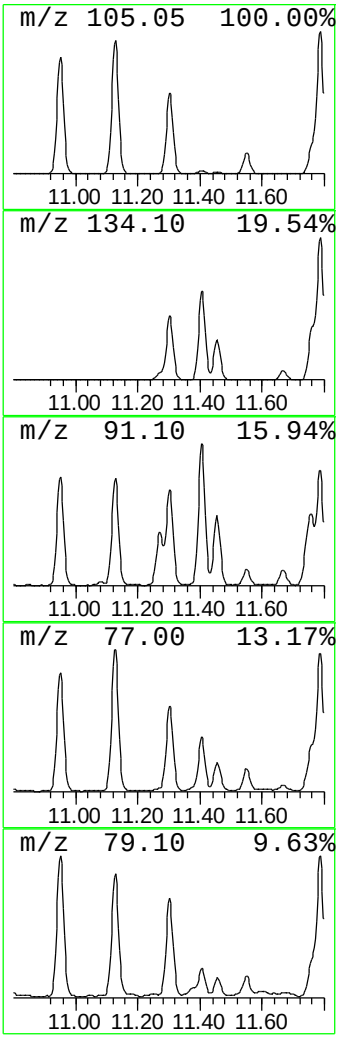
**********

Peak Number 25 2-Tolyloxirane Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.30 | 83.22 ug/L | 7001240 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Tolyloxirane | 134 | C9H10O | 002783-26-8 | 91 |
| 2 | Benzene, (1-methylpropyl)- | 134 | C10H14 | 000135-98-8 | 91 |
| 3 | Benzene, (1-methylpropyl)- | 134 | C10H14 | 000135-98-8 | 91 |
| 4 | Benzeneacetaldehyde, .alpha.-met... | 134 | C9H10O | 000093-53-8 | 90 |
| 5 | Oxirane, 2-methyl-2-phenyl- | 134 | C9H10O | 002085-88-3 | 90 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

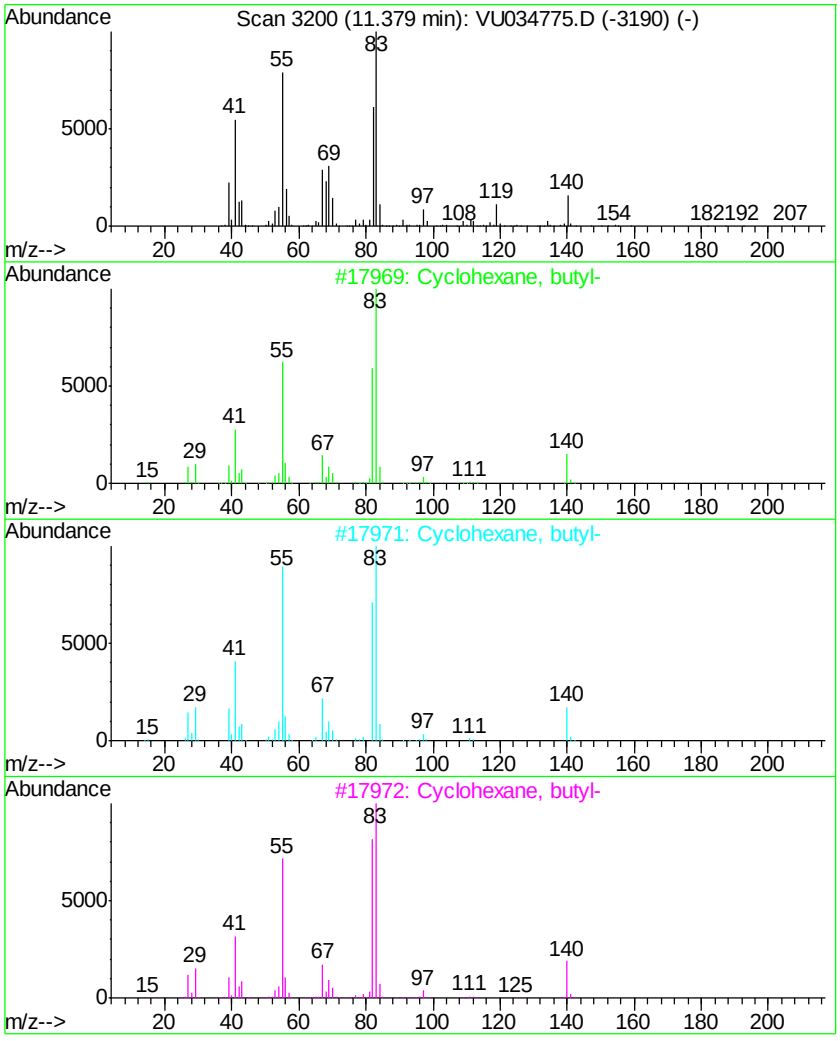
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

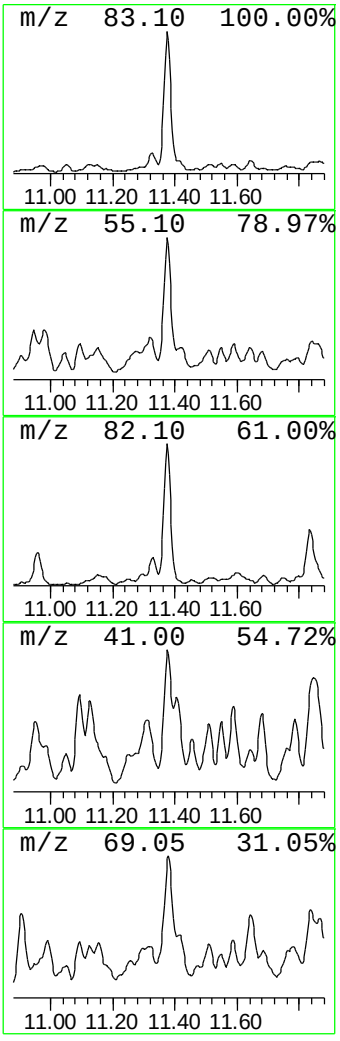
**********

Peak Number 26 (DEL) Alkane: Cyclic11.38 Concentration Rank 71

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.38 | 26.11 ug/L | 2196400 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, butyl- | 140 | C10H20 | 001678-93-9 | 81 |
| 2 | Cyclohexane, butyl- | 140 | C10H20 | 001678-93-9 | 80 |
| 3 | Cyclohexane, butyl- | 140 | C10H20 | 001678-93-9 | 72 |
| 4 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 64 |
| 5 | Cyclohexane, (2-methylpropyl)- | 140 | C10H20 | 001678-98-4 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

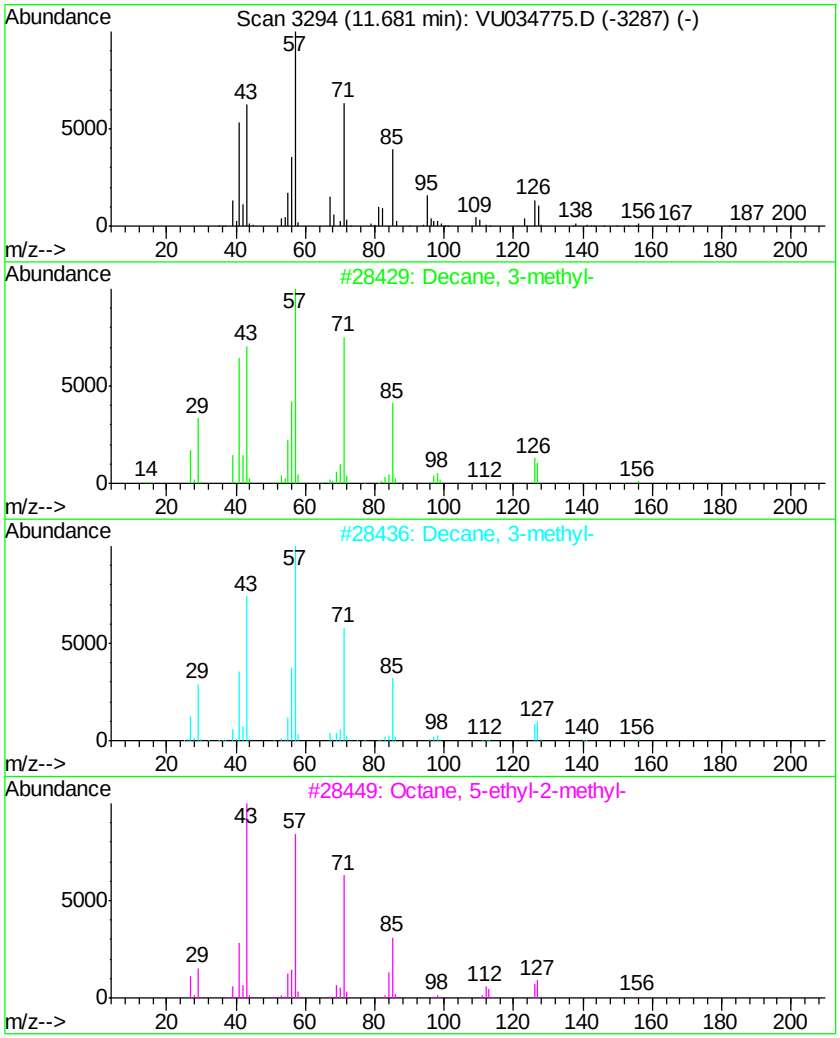
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

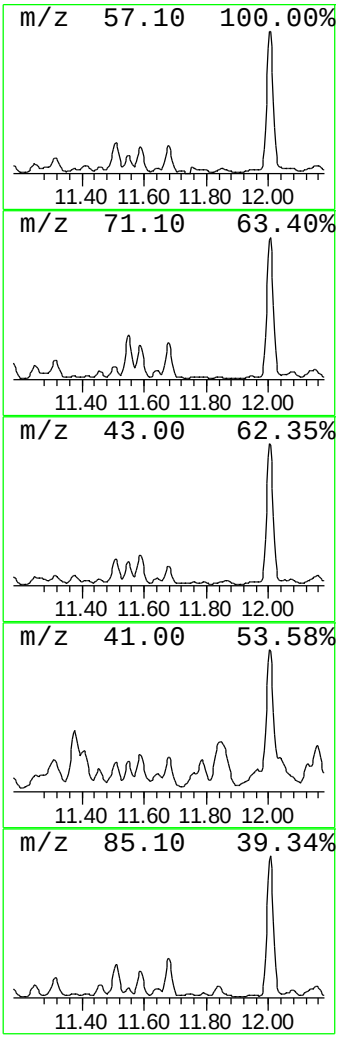
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 29 (DEL) Alkane: Straight-Chai... Concentration Rank 79

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.68 | 17.95 ug/L | 1509980 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 87 |
| 2 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 72 |
| 3 | Octane, 5-ethyl-2-methyl- | 156 | C11H24 | 062016-18-6 | 64 |
| 4 | Octane, 3-ethyl-2,7-dimethyl- | 170 | C12H26 | 062183-55-5 | 64 |
| 5 | Nonane, 5-butyl- | 184 | C13H28 | 017312-63-9 | 62 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

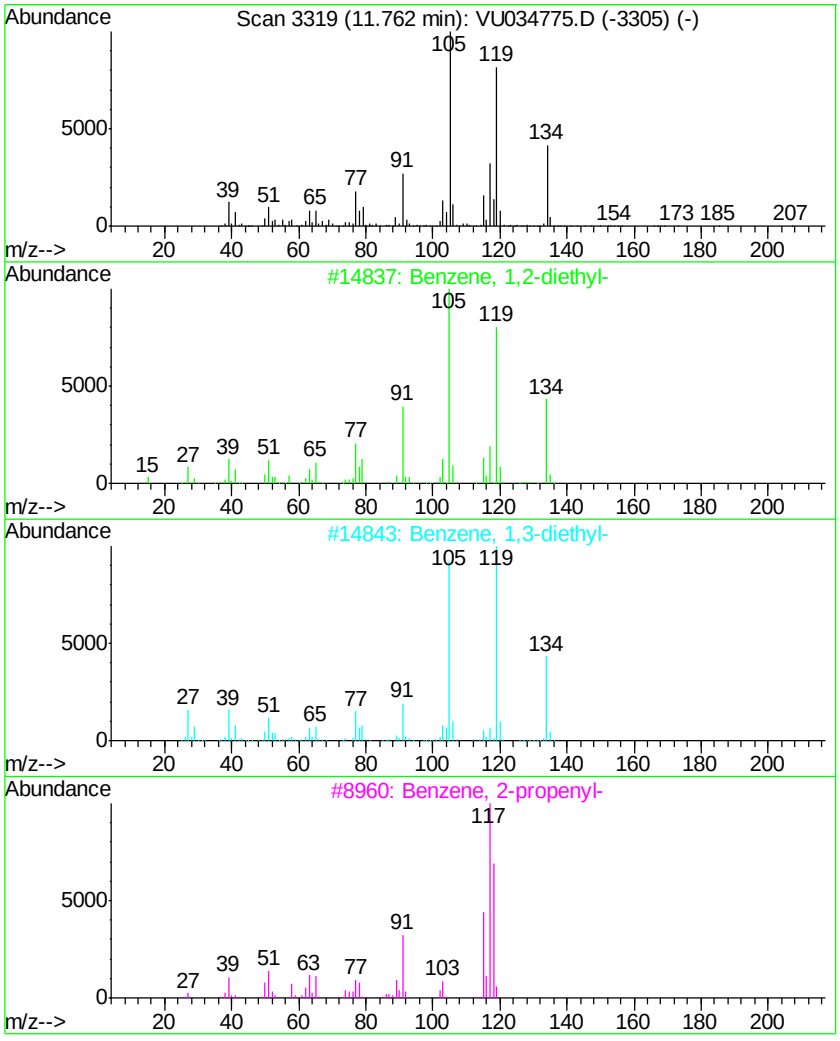
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

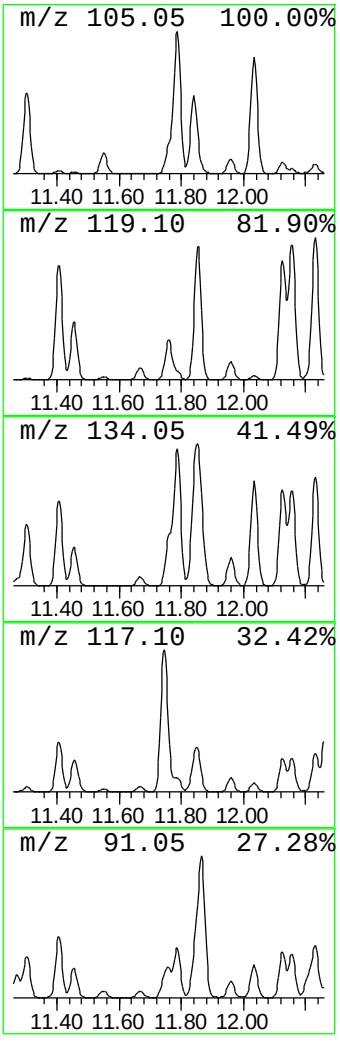
**********

Peak Number 30 Benzene, 1,2-diethyl- Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.76 | 58.77 ug/L | 4944770 | 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 | 90 |
| 2 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 90 |
| 3 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 80 |
| 4 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 60 |
| 5 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 60 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

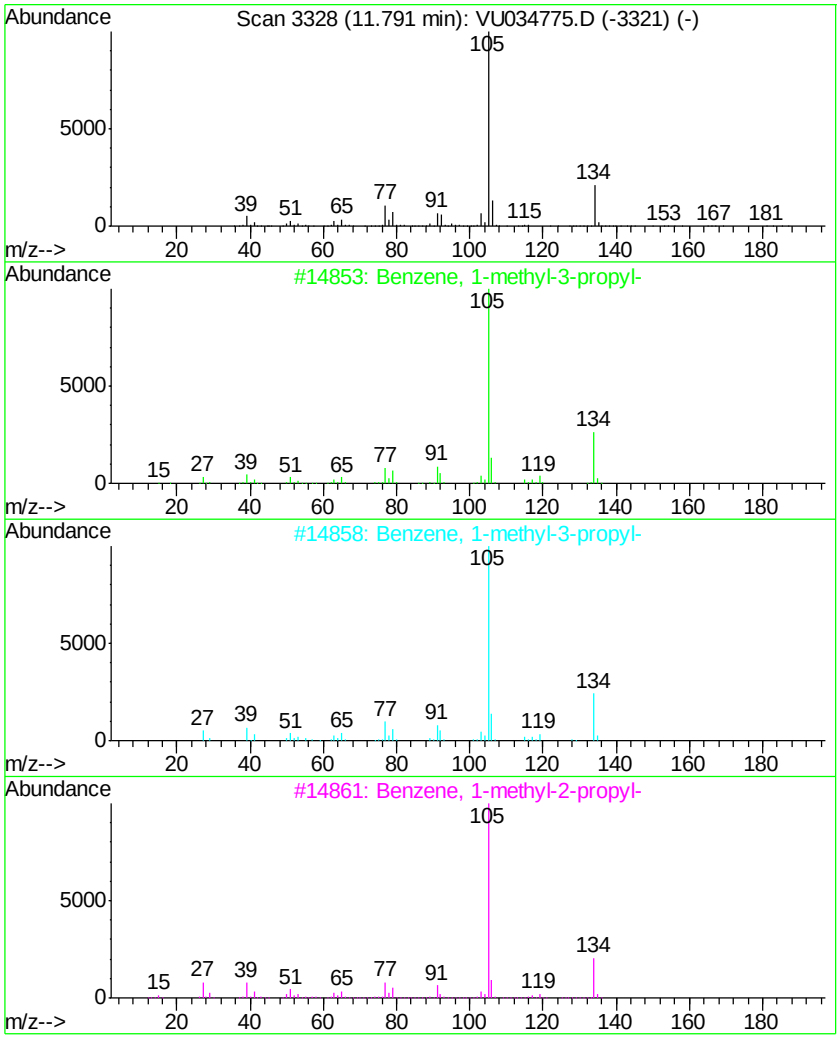
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

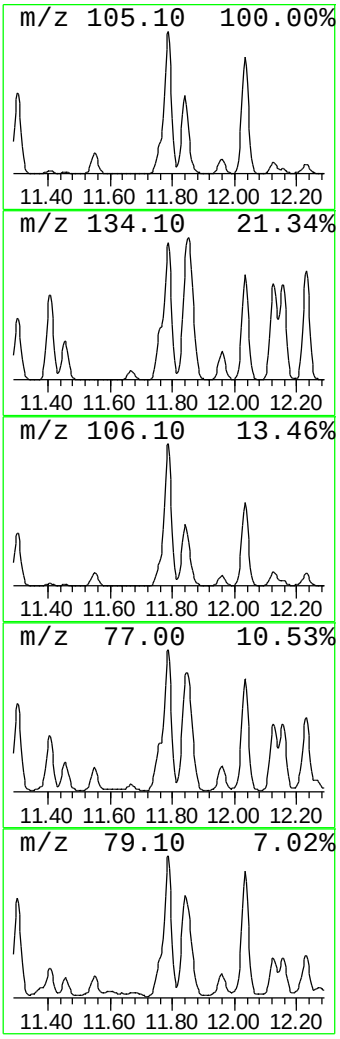
**********

Peak Number 31 Benzene, 1-methyl-3-propyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.79 | 104.03 ug/L | 8752460 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 90 |
| 2 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 90 |
| 3 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 87 |
| 4 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 87 |
| 5 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 87 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

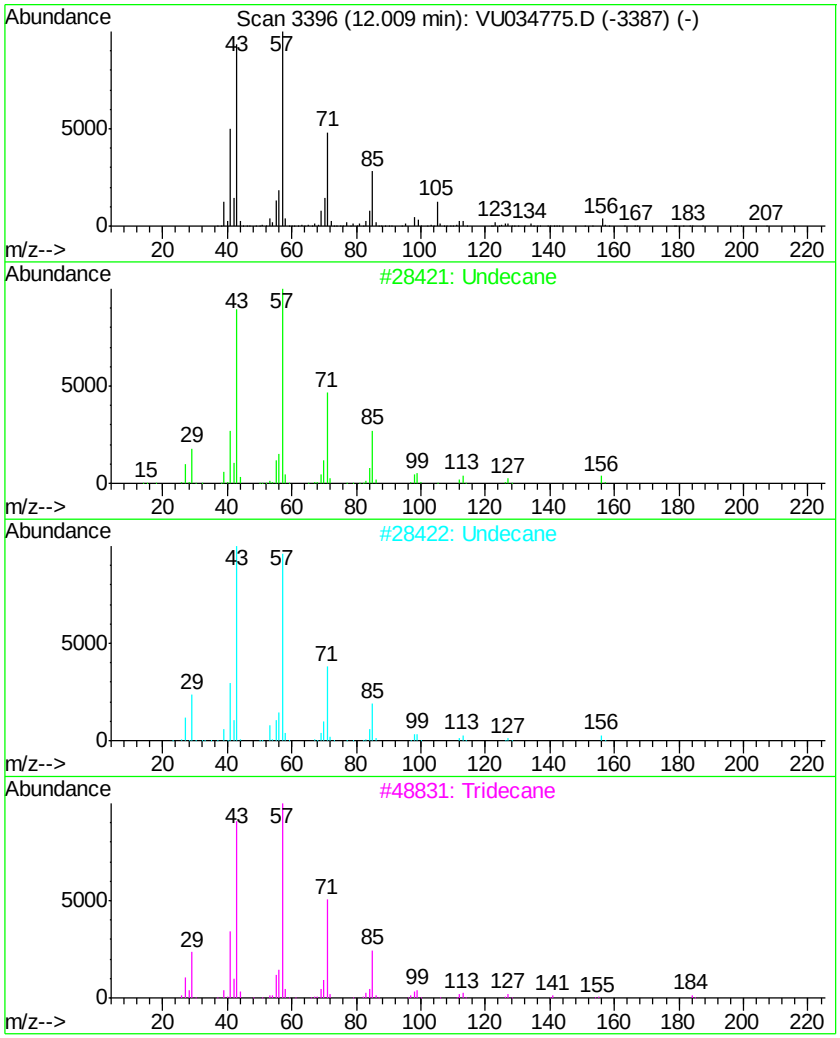
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

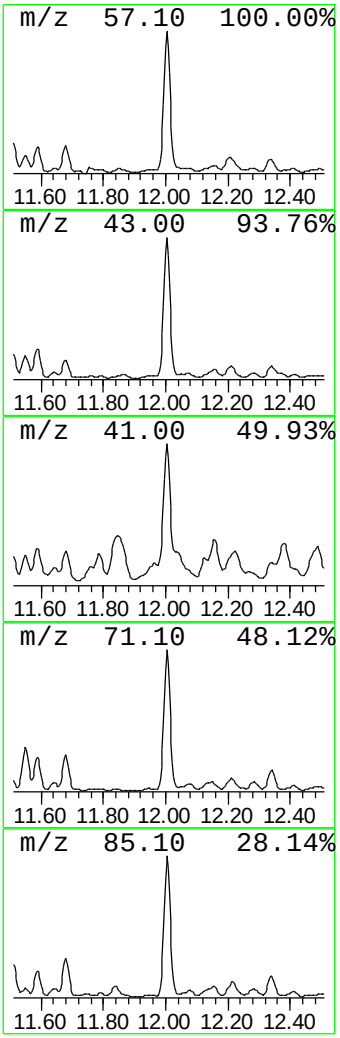
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 33 (DEL) Alkane: Straight-Chai... Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.01 | 53.89 ug/L | 4534010 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Undecane | 156 | C11H24 | 001120-21-4 | 91 |
| 2 | Undecane | 156 | C11H24 | 001120-21-4 | 90 |
| 3 | Tridecane | 184 | C13H28 | 000629-50-5 | 86 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 83 |
| 5 | Decane, 2,4-dimethyl- | 170 | C12H26 | 002801-84-5 | 72 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

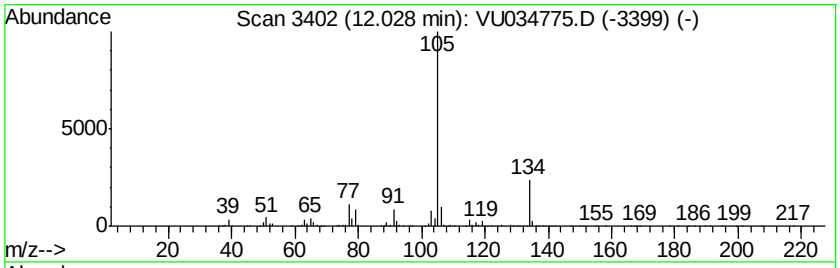
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

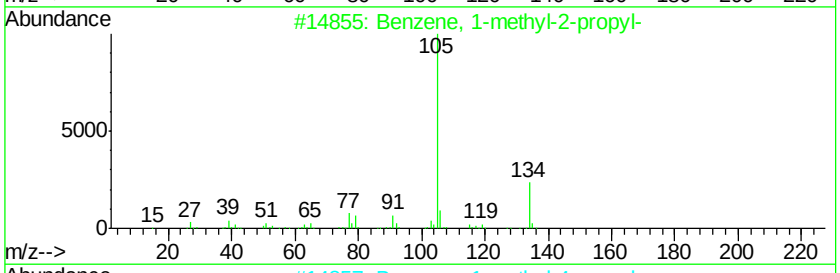
**********

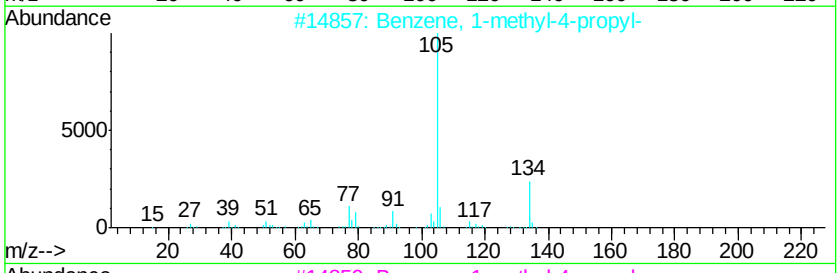
Peak Number 34 Benzene, 1-methyl-2-propyl- Concentration Rank 23

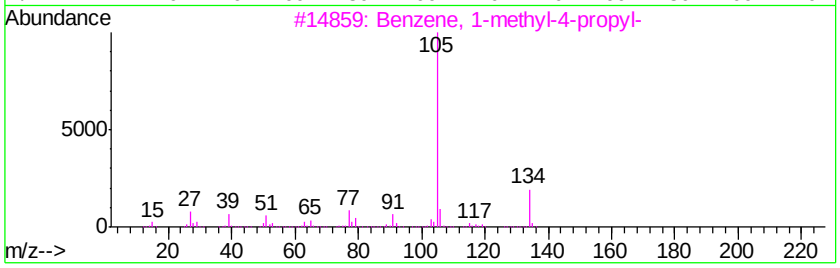
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.03 | 84.72 ug/L | 7127760 | 1,4-Dichlorobenzene-d4 | 11.46 |

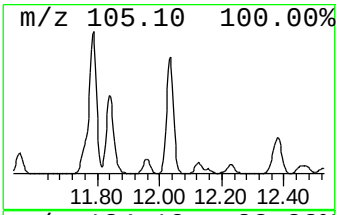
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 94 |
| 2 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 94 |
| 3 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |
| 4 | Benzene, (1-methylpropyl)- | 134 | C10H14 | 000135-98-8 | 91 |
| 5 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |

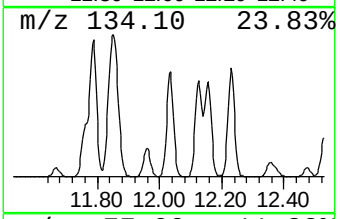


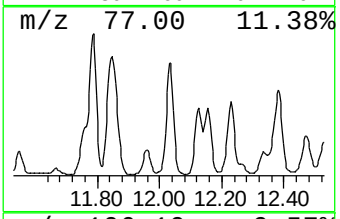



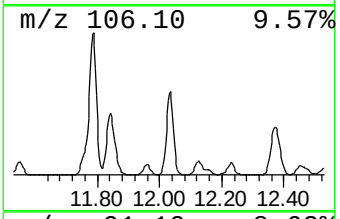



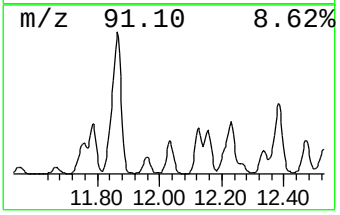



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

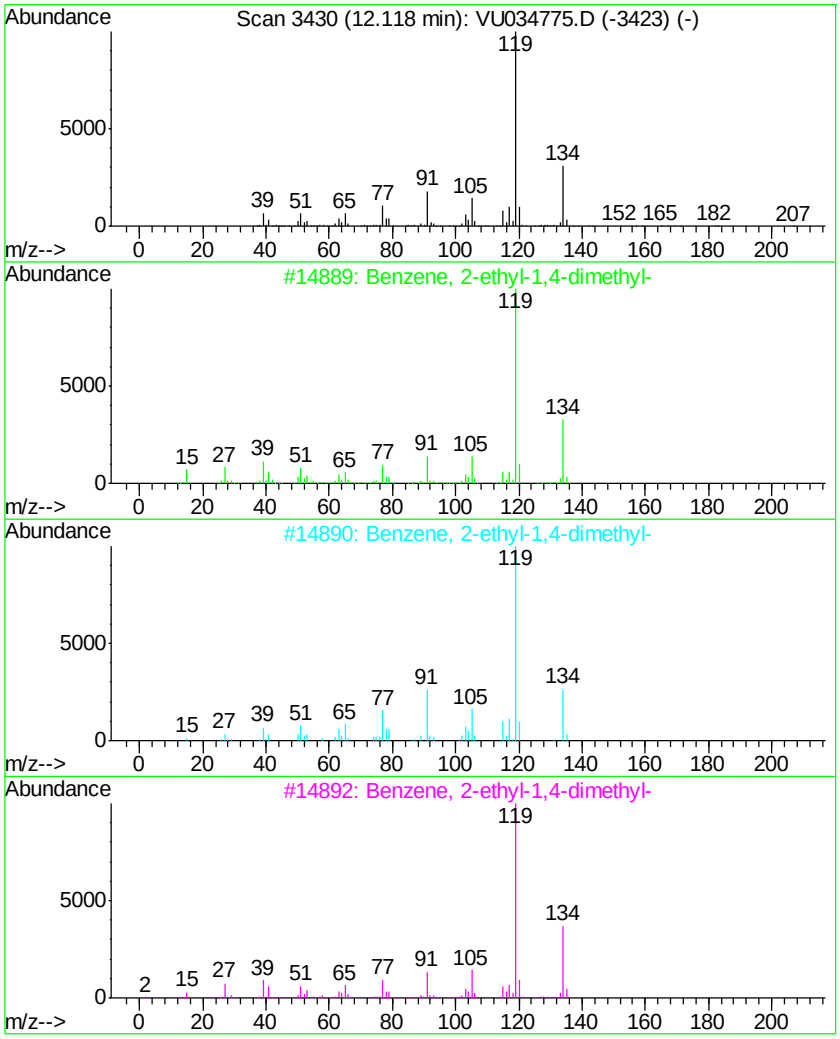
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

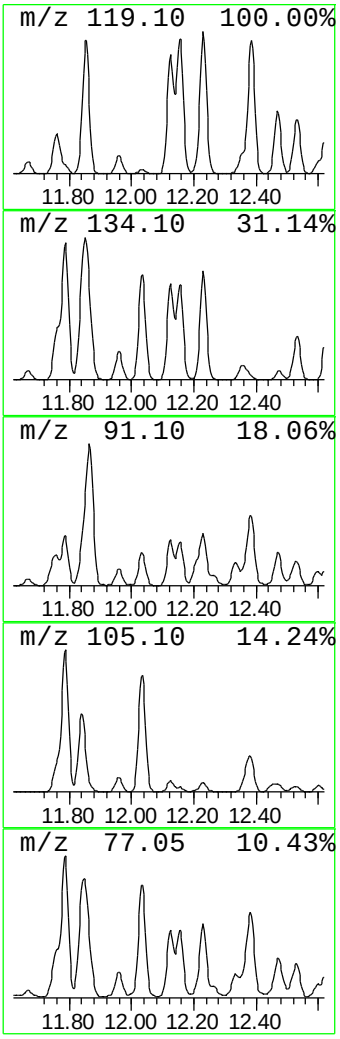
**********

Peak Number 35 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.12 | 61.46 ug/L | 5171100 | 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 | 97 |
| 2 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 96 |
| 3 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 95 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

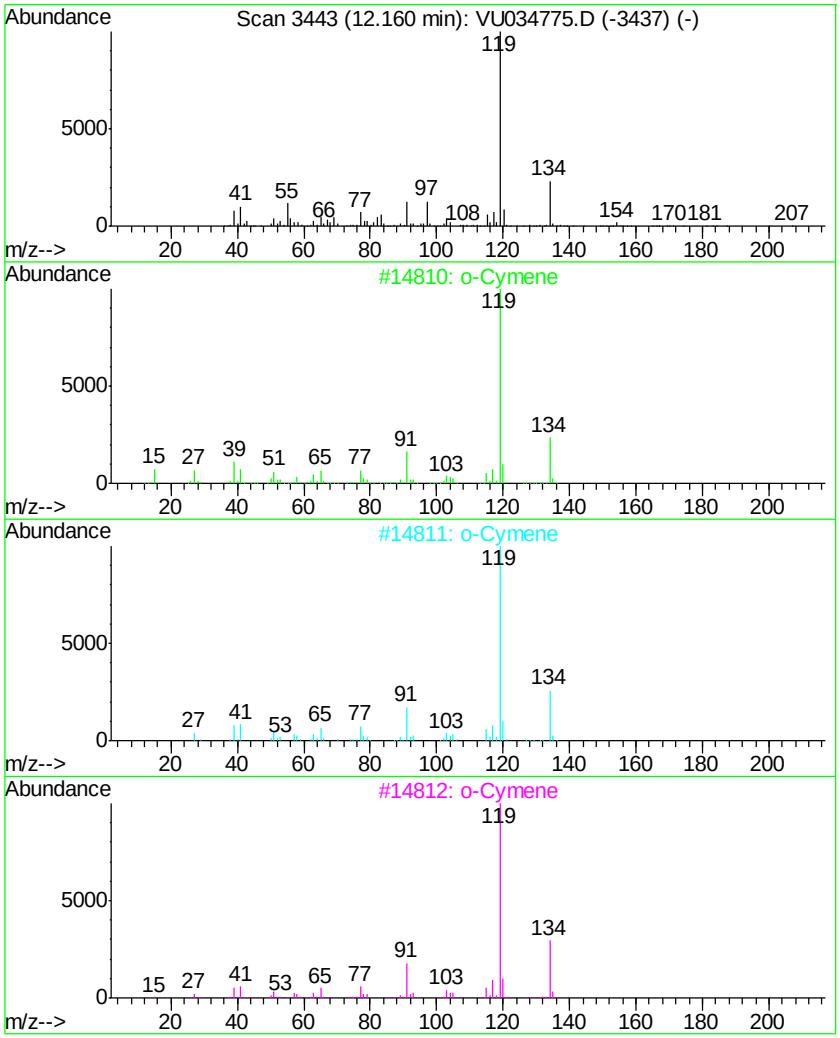
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

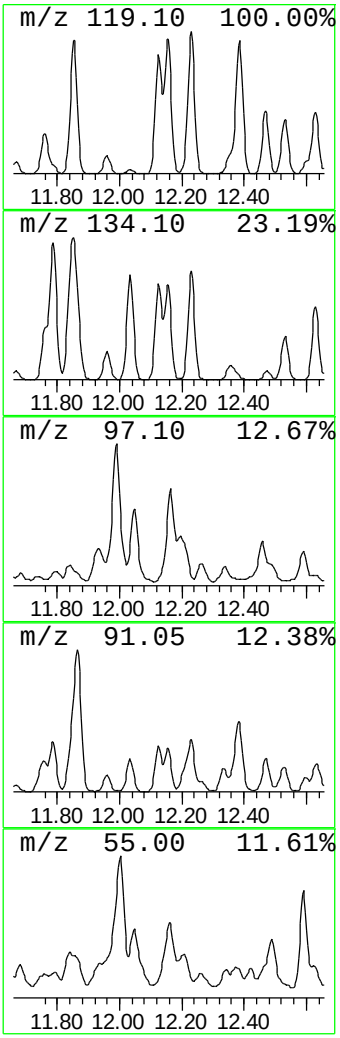
**********

Peak Number 36 o-Cymene Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.16 | 65.01 ug/L | 5469660 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | o-Cymene | 134 | C10H14 | 000527-84-4 | 97 |
| 2 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 91 |
| 4 | p-Cymene | 134 | C10H14 | 000099-87-6 | 91 |
| 5 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

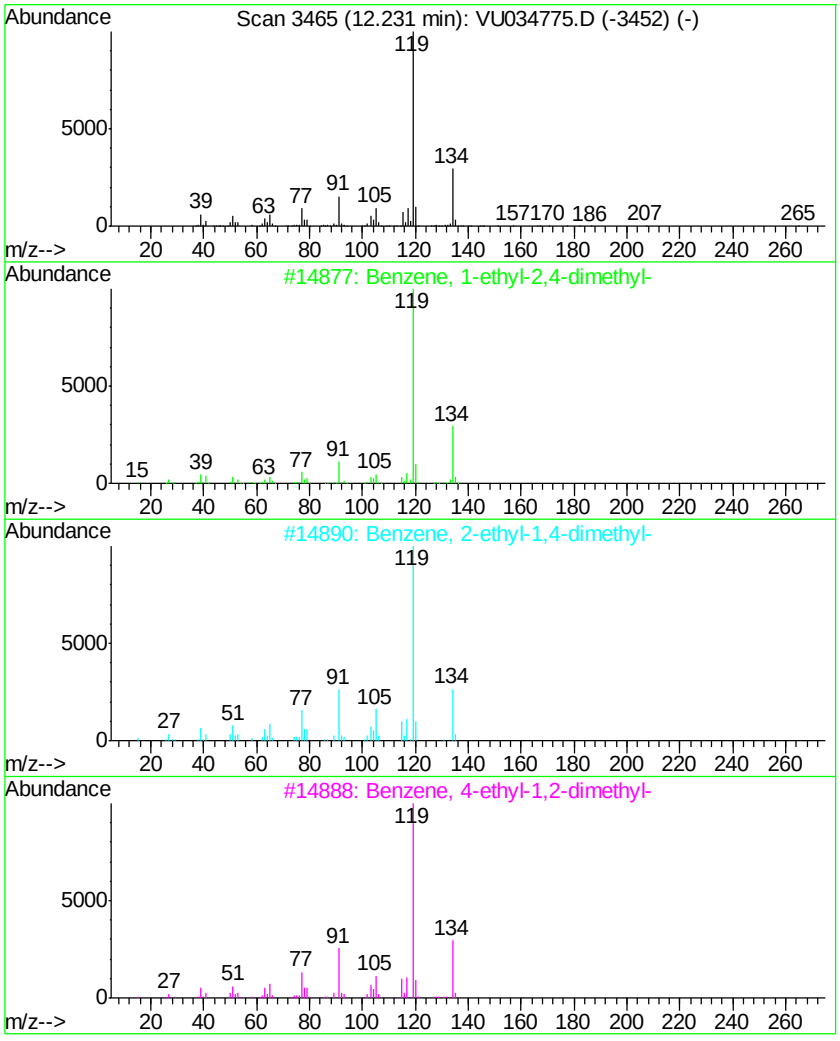
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

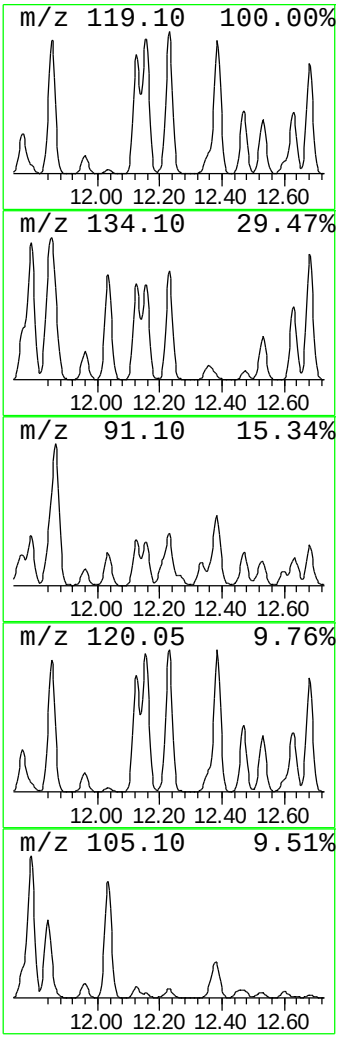
**********

Peak Number 37 Benzene, 1-ethyl-2,4-dimethyl- Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.23 | 75.49 ug/L | 6350910 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 97 |
| 2 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 96 |
| 3 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 95 |
| 4 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 95 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

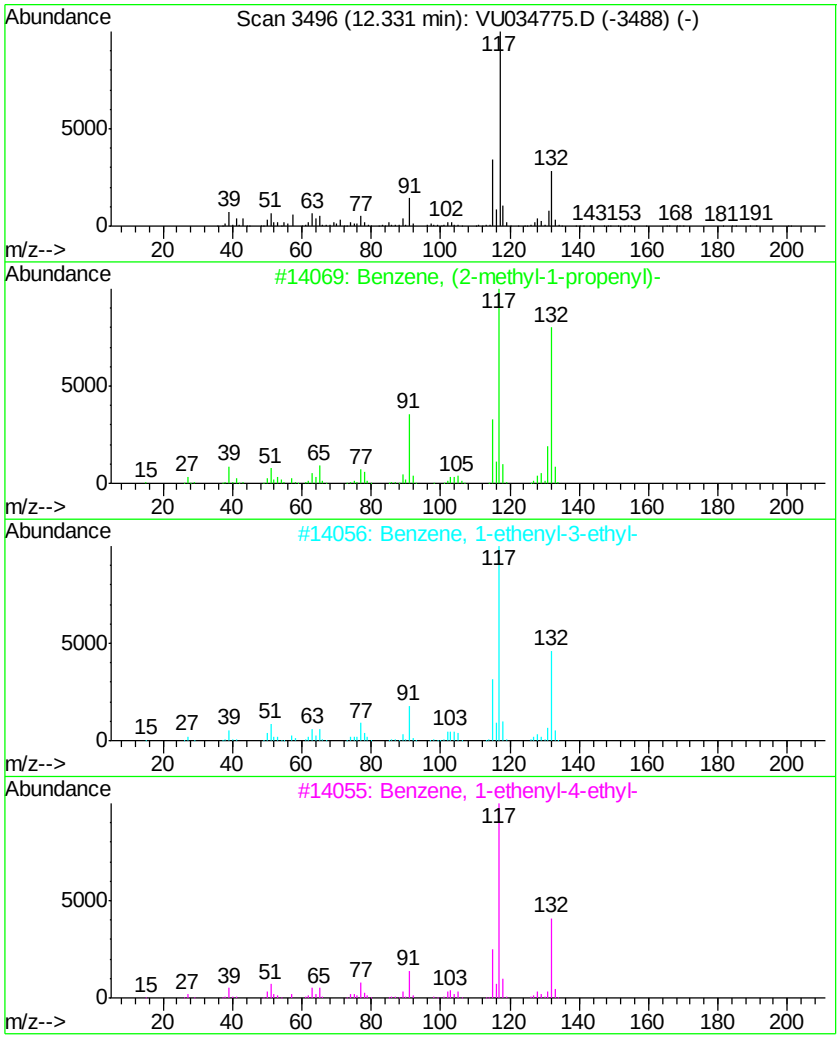
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

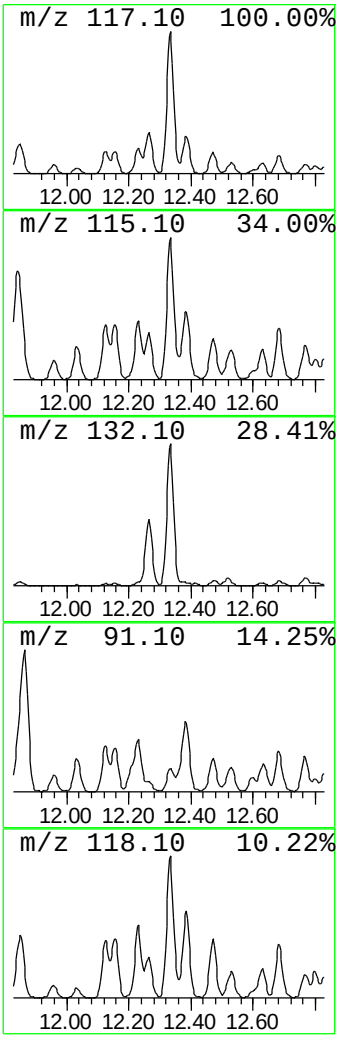
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 38 Benzene, (2-methyl-1-propen... Concentration Rank 47

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.33 | 50.79 ug/L | 4273220 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12 | 000768-49-0 | 90 |
| 2 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 90 |
| 3 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 87 |
| 4 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 87 |
| 5 | Benzene, (2-methylcyclopropyl)- | 132 | C10H12 | 1000327-39-0 | 83 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

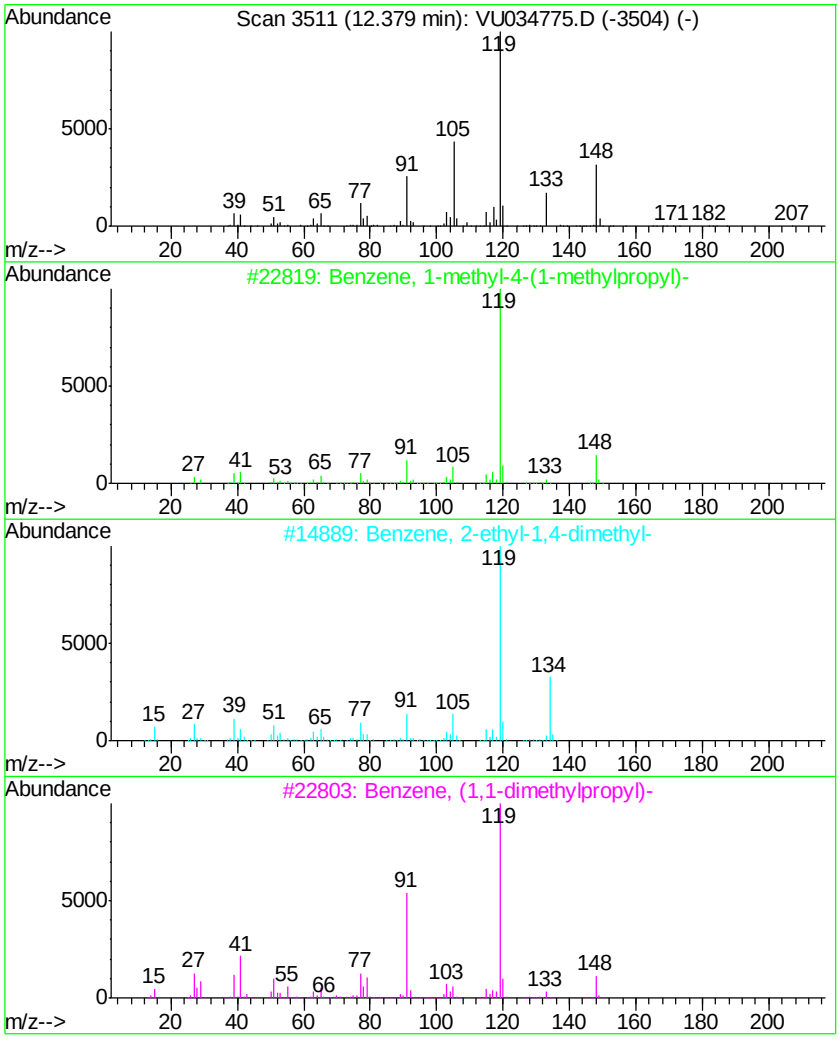
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

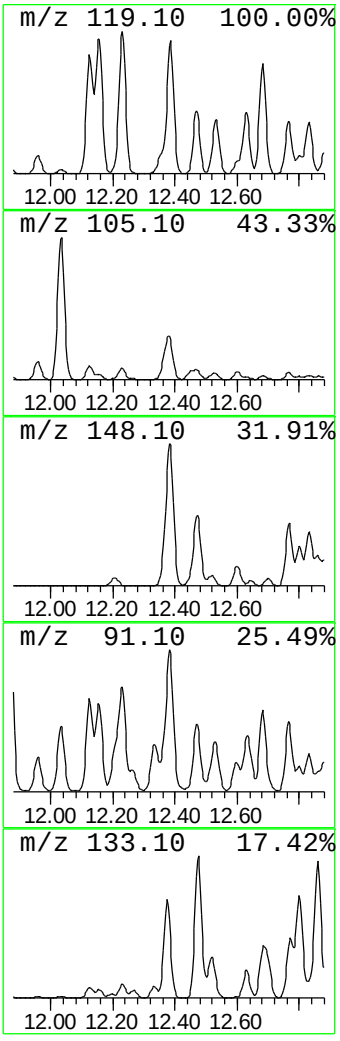
**********

Peak Number 39 Benzene, 1-methyl-4-(1-meth... Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.38 | 104.97 ug/L | 8831840 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16 | 001595-16-0 | 87 |
| 2 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 59 |
| 3 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 59 |
| 4 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 59 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 58 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

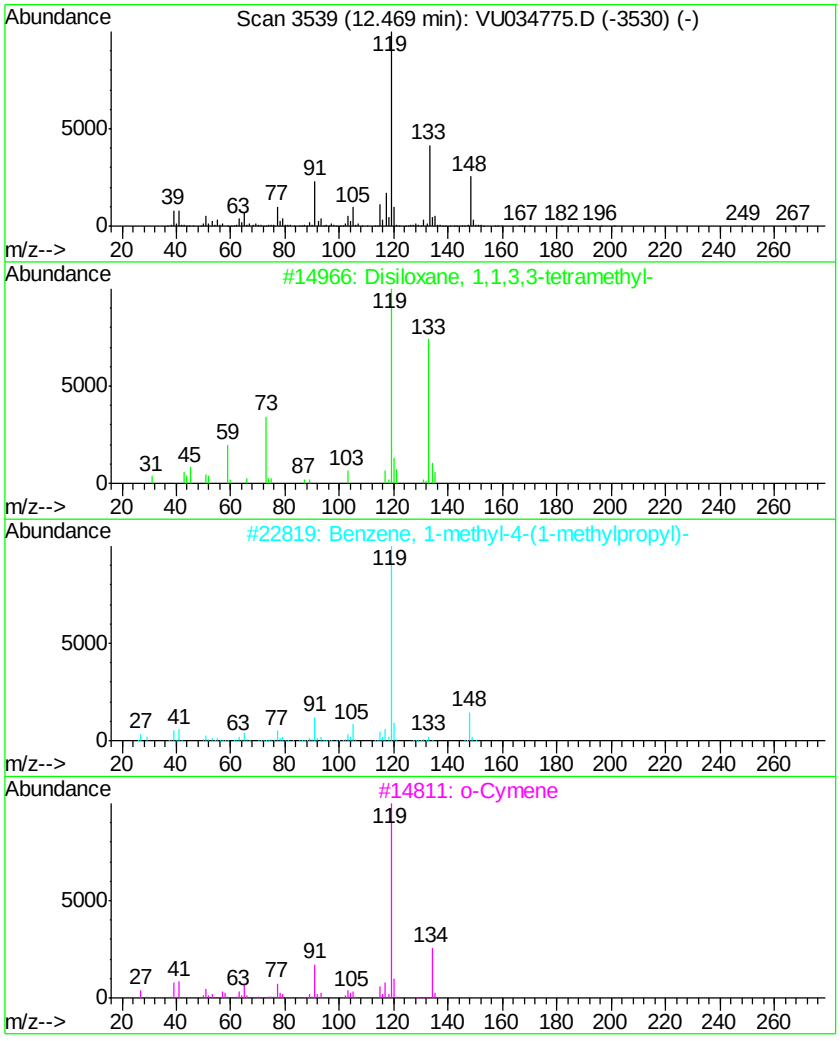
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

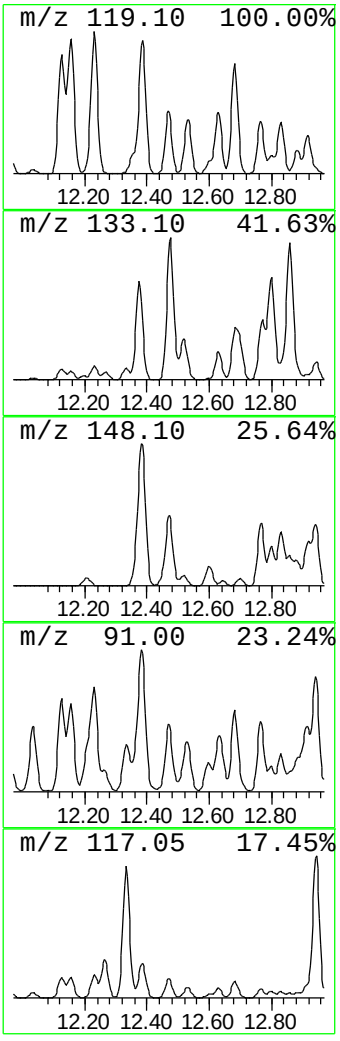
**********

Peak Number 40 Disiloxane, 1,1,3,3-tetrame... Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.47 | 63.90 ug/L | 5375990 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Disiloxane, 1,1,3,3-tetramethyl- | 134 | C4H14OSi2 | 003277-26-7 | 72 |
| 2 | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16 | 001595-16-0 | 64 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 55 |
| 4 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 50 |
| 5 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 49 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

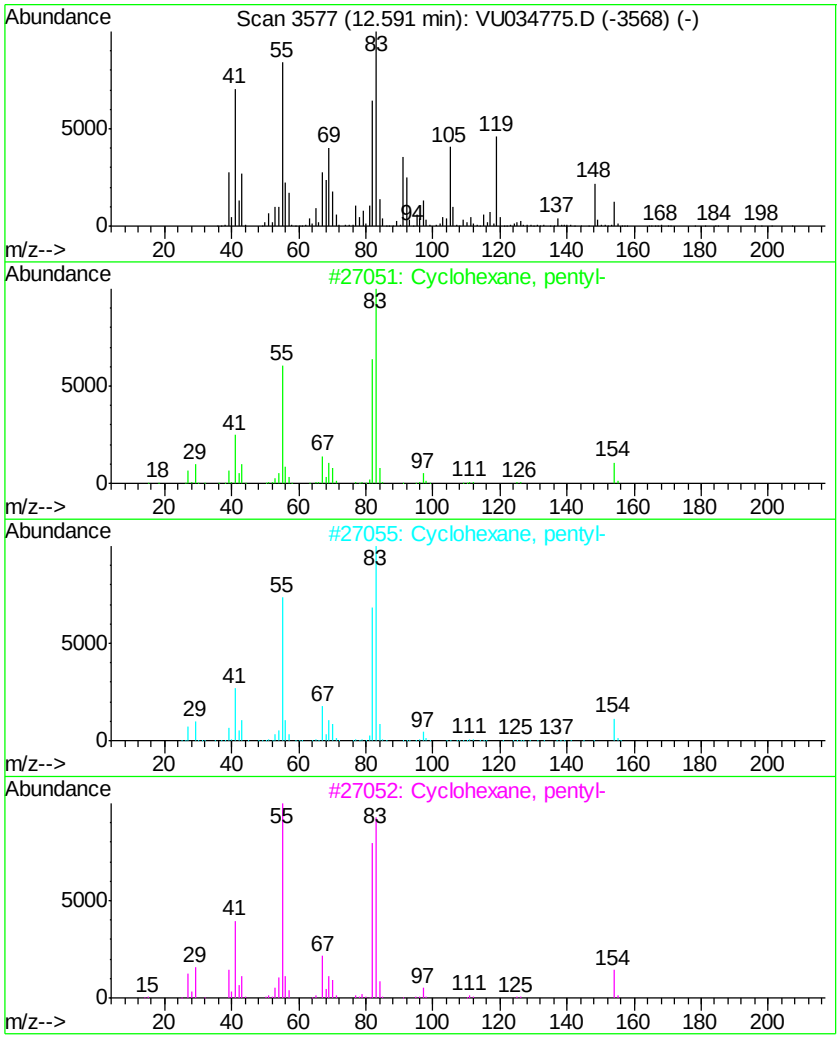
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

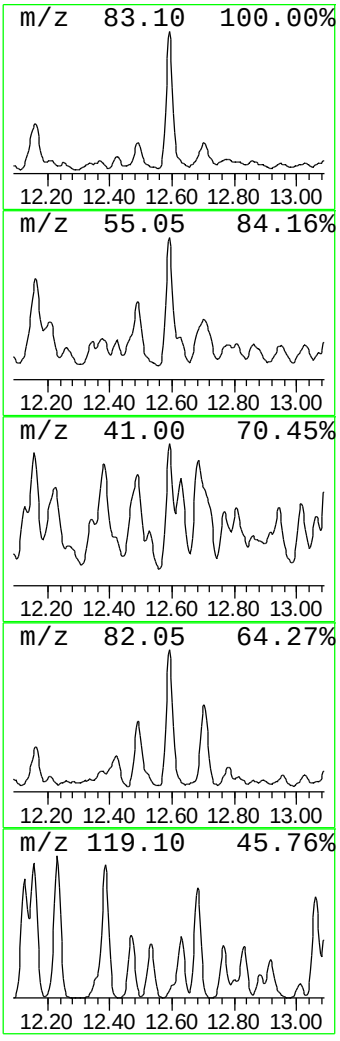
**********

Peak Number 42 (DEL) Alkane: Cyclic12.59 Concentration Rank 68

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.59 | 30.13 ug/L | 2535210 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 46 |
| 2 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 46 |
| 3 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 46 |
| 4 | Cyclohexane, tetradecyl- | 280 | C20H40 | 001795-18-2 | 43 |
| 5 | Cyclohexane, hexyl- | 168 | C12H24 | 004292-75-5 | 38 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

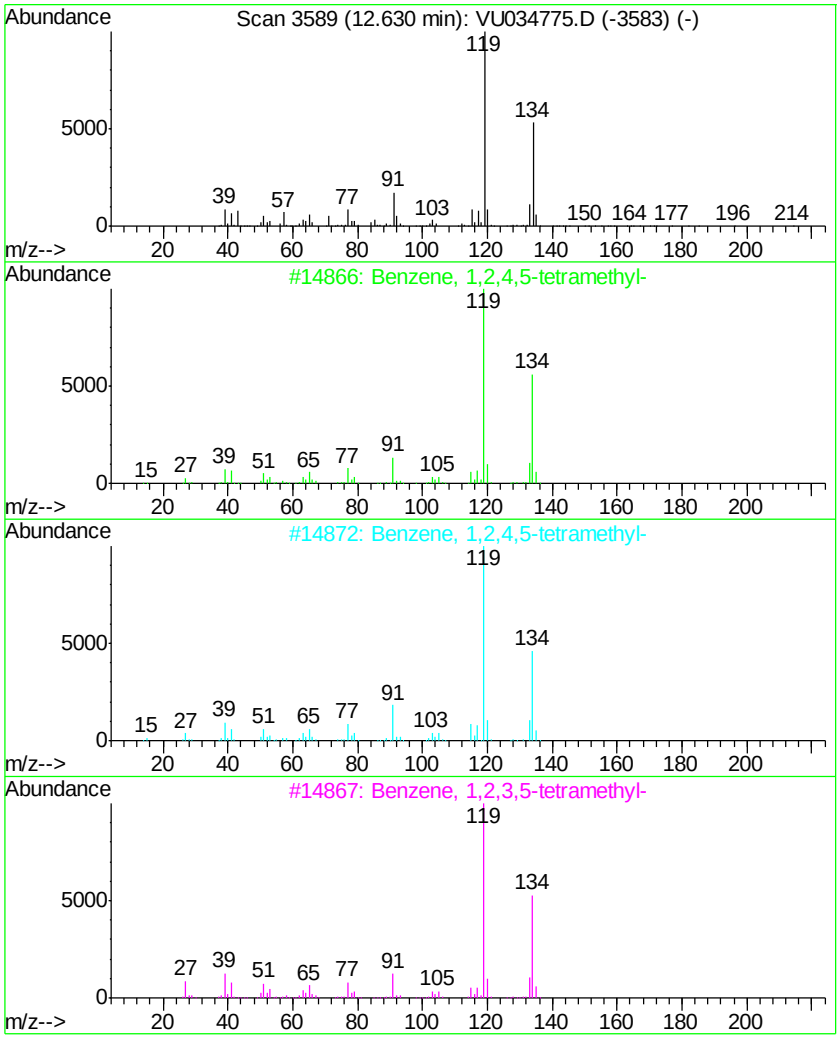
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

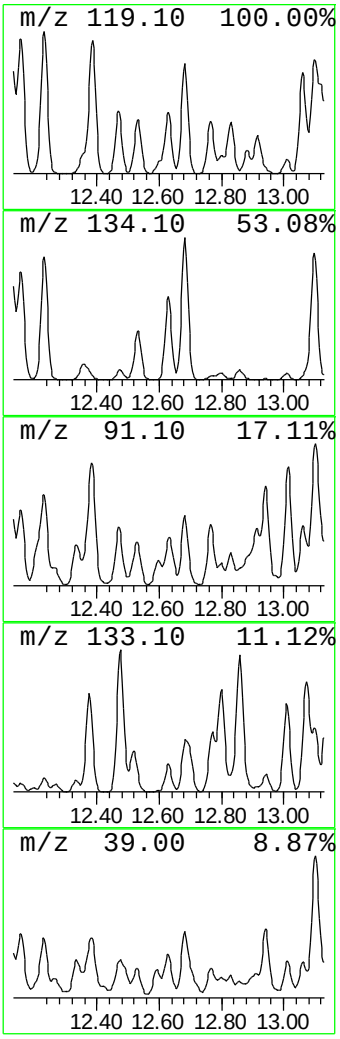
**********

Peak Number 43 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 59

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.63 | 39.03 ug/L | 3283350 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 94 |
| 2 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 91 |
| 3 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 91 |
| 4 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 91 |
| 5 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

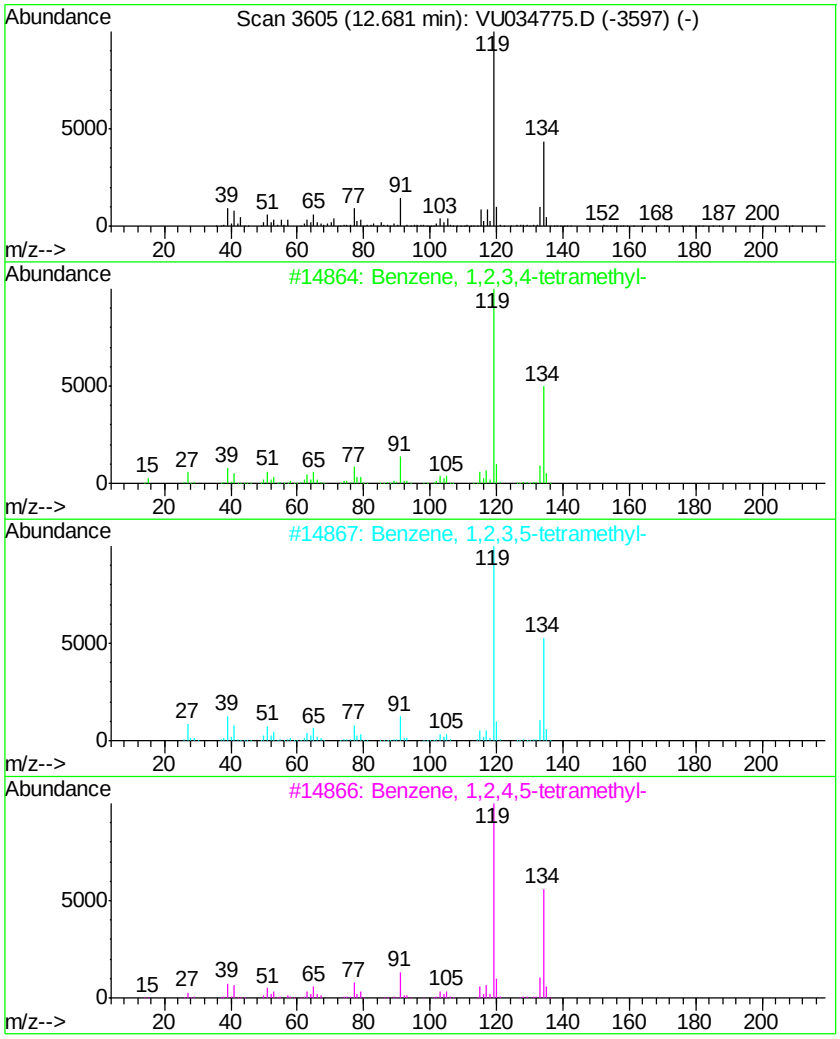
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

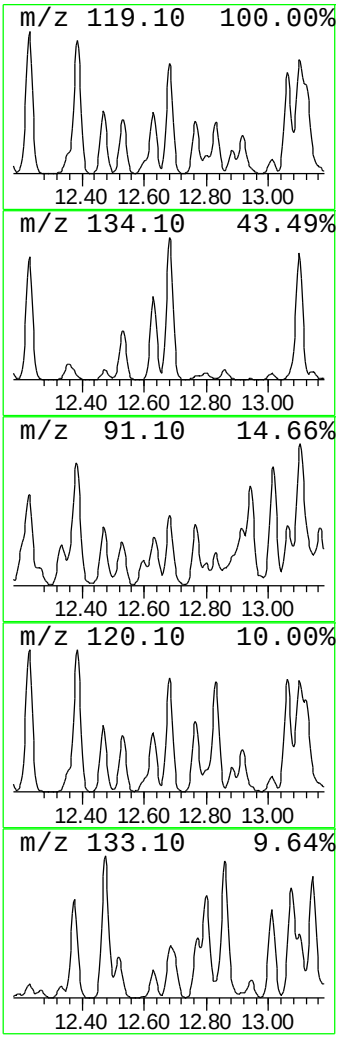
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 44 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.68 | 86.22 ug/L | 7253790 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 95 |
| 2 | Benzene, 1,2,3,5-tetramethyl- | 134 | C10H14 | 000527-53-7 | 95 |
| 3 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 95 |
| 4 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 95 |
| 5 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 94 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

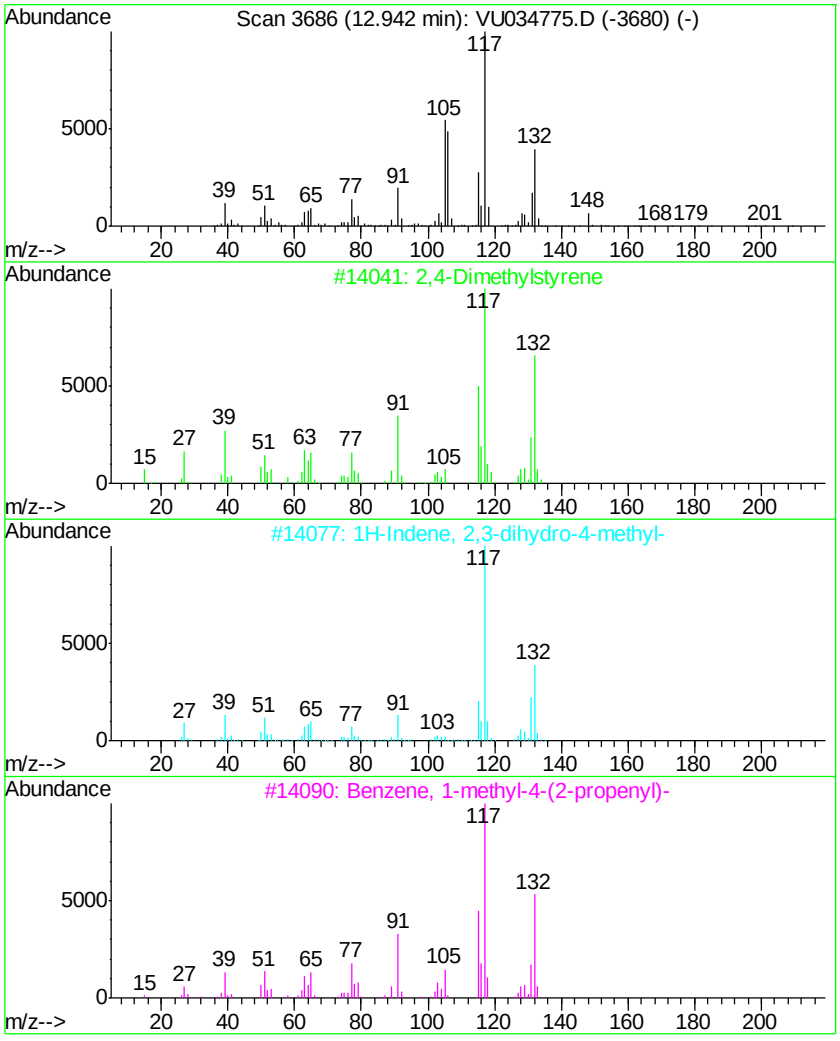
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

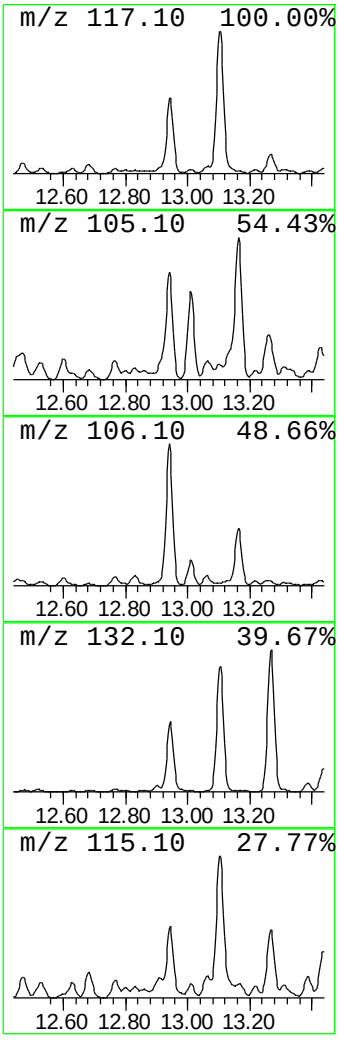
**********

Peak Number 46 2,4-Dimethylstyrene Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.94 | 84.98 ug/L | 7149320 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Dimethylstyrene | 132 | C10H12 | 002234-20-0 | 95 |
| 2 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 93 |
| 3 | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12 | 003333-13-9 | 91 |
| 4 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 90 |
| 5 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 90 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

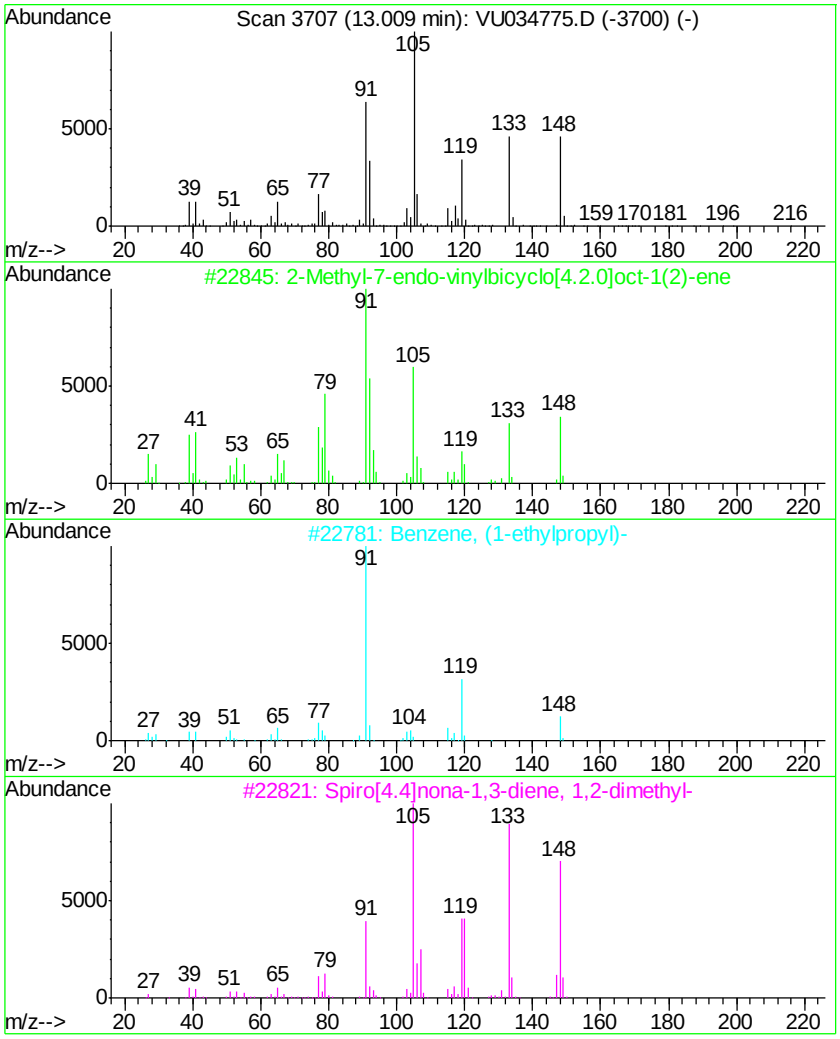
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

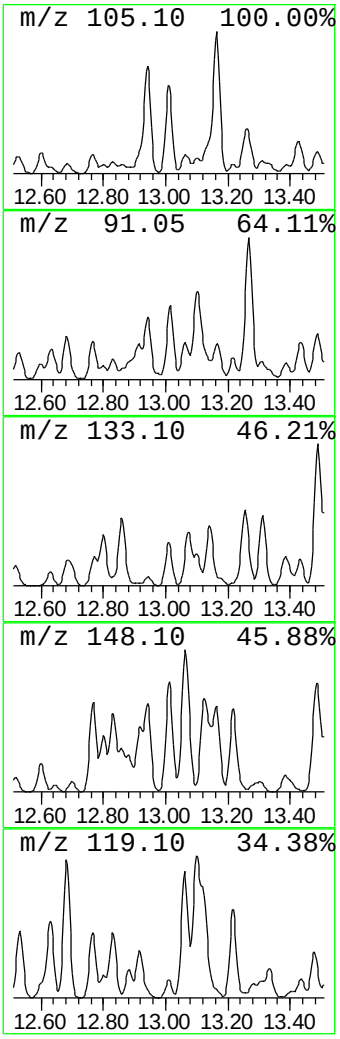
**********

Peak Number 47 2-Methyl-7-endo-vinylbicycl... Concentration Rank 57

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.01 | 40.08 ug/L | 3371680 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Methyl-7-endo-vinylbicyclo[4.2... | 148 | C11H16 | 1000200-99-1 | 90 |
| 2 | Benzene, (1-ethylpropyl)- | 148 | C11H16 | 001196-58-3 | 46 |
| 3 | Spiro[4.4]nona-1,3-diene, 1,2-di... | 148 | C11H16 | 1000163-57-6 | 43 |
| 4 | 2-Nitrophenyl-.beta.-phenylpropi... | 271 | C15H13NO4 | 040123-51-1 | 38 |
| 5 | 3-Phenylpropionic acid, 2,3,4,6-... | 362 | C15H10Cl4O2 | 1000354-74-6 | 35 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

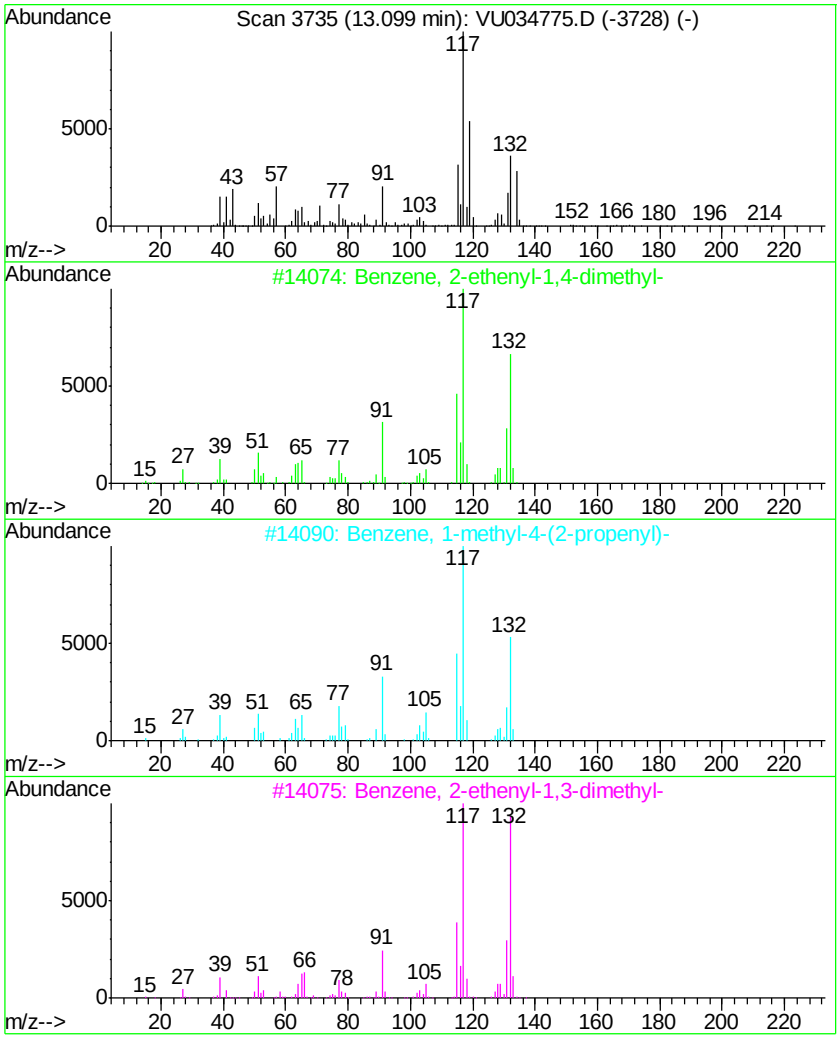
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

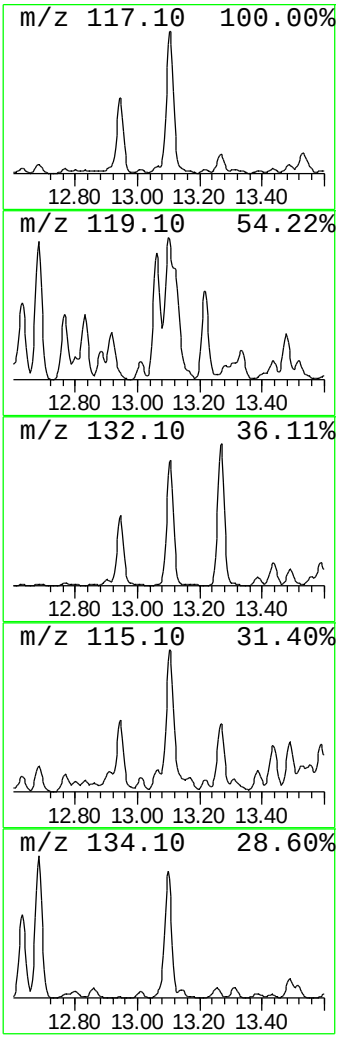
**********

Peak Number 49 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.10 | 174.44 ug/L | 14675800 | 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 | 90 |
| 2 | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12 | 003333-13-9 | 86 |
| 3 | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12 | 002039-90-9 | 86 |
| 4 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 70 |
| 5 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 70 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

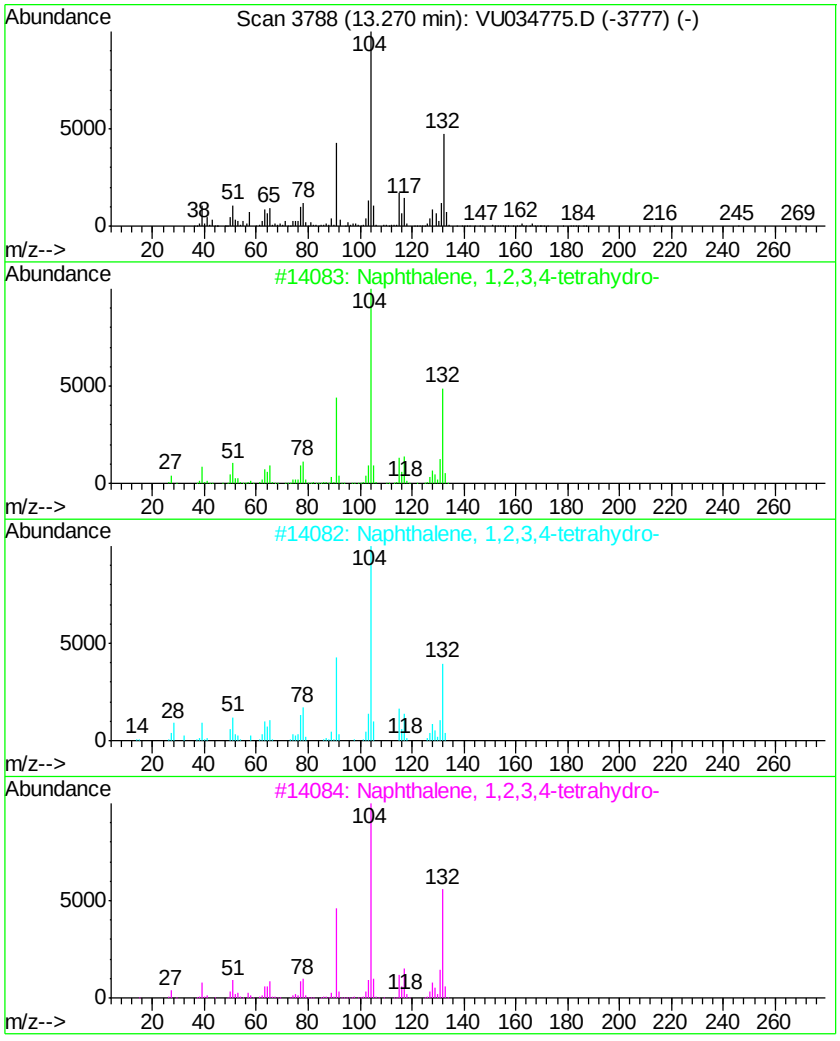
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

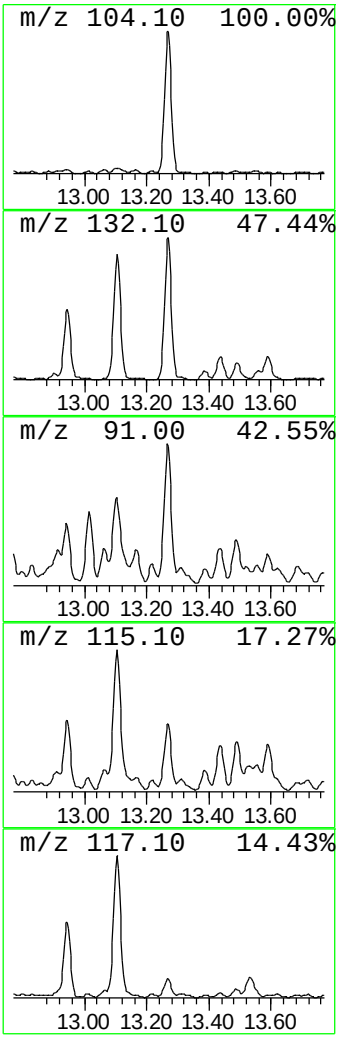
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 51 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.27 | 121.18 ug/L | 10194800 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 97 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 95 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 95 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 91 |
| 5 | Benzene, cyclobutyl- | 132 | C10H12 | 004392-30-7 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

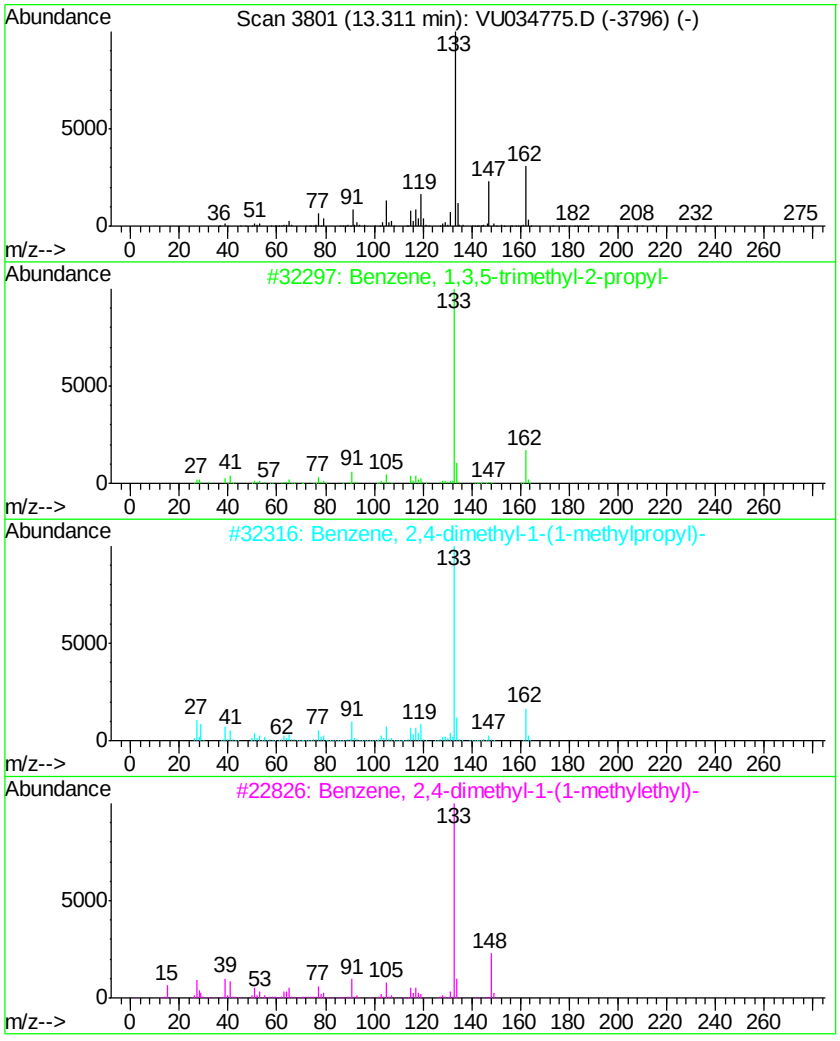
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

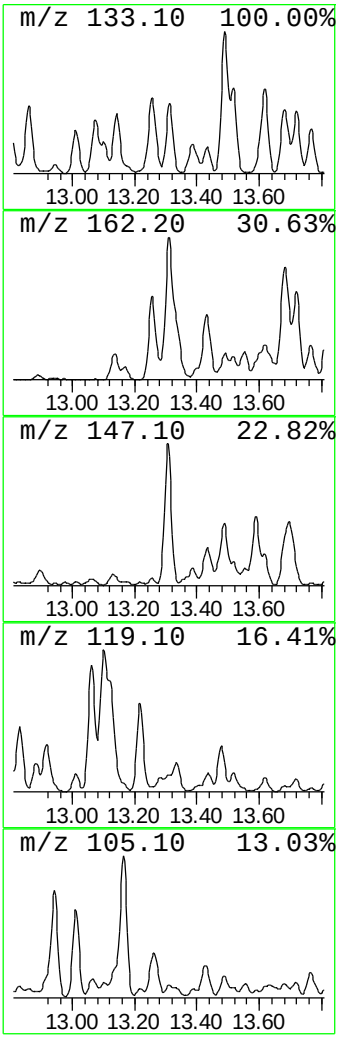
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 52 Benzene, 1,3,5-trimethyl-2-... Concentration Rank 63

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.31 | 35.01 ug/L | 2945820 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3,5-trimethyl-2-propyl- | 162 | C12H18 | 004810-04-2 | 81 |
| 2 | Benzene, 2,4-dimethyl-1-(1-methy... | 162 | C12H18 | 001483-60-9 | 64 |
| 3 | Benzene, 2,4-dimethyl-1-(1-methy... | 148 | C11H16 | 004706-89-2 | 52 |
| 4 | 3,4-Dimethylcumene | 148 | C11H16 | 1000370-34-1 | 50 |
| 5 | Benzene, 1,4-dimethyl-2-(1-methy... | 148 | C11H16 | 004132-72-3 | 50 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

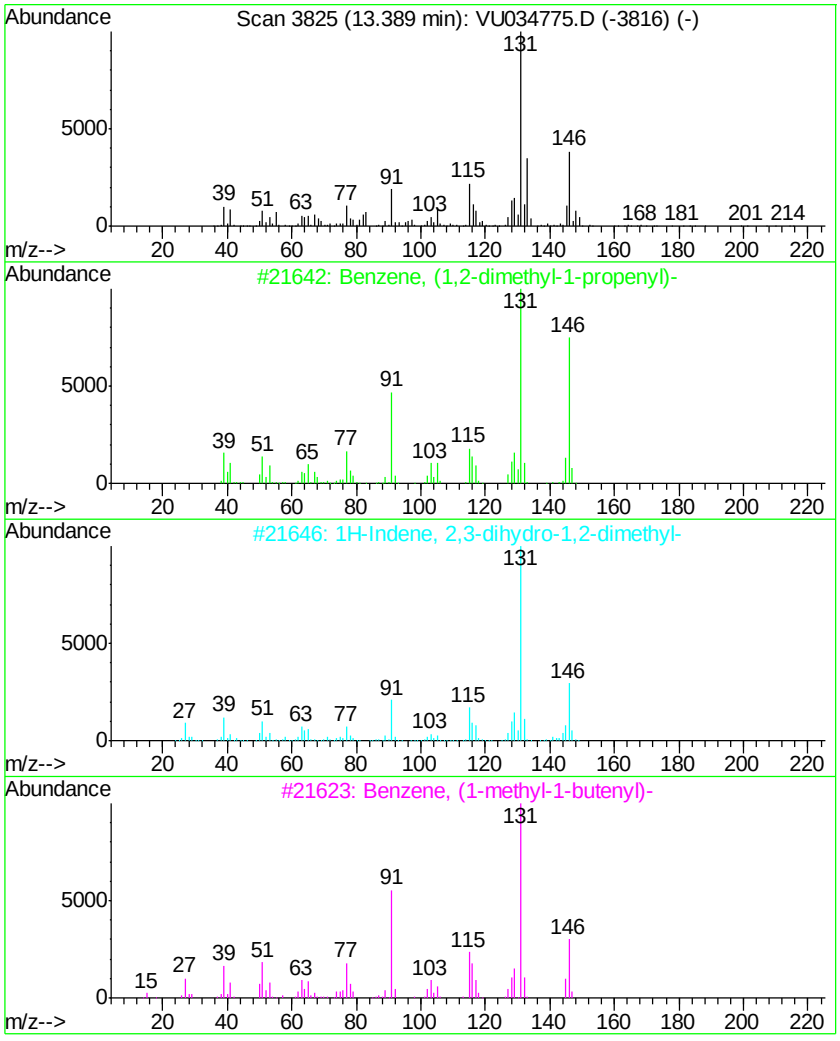
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

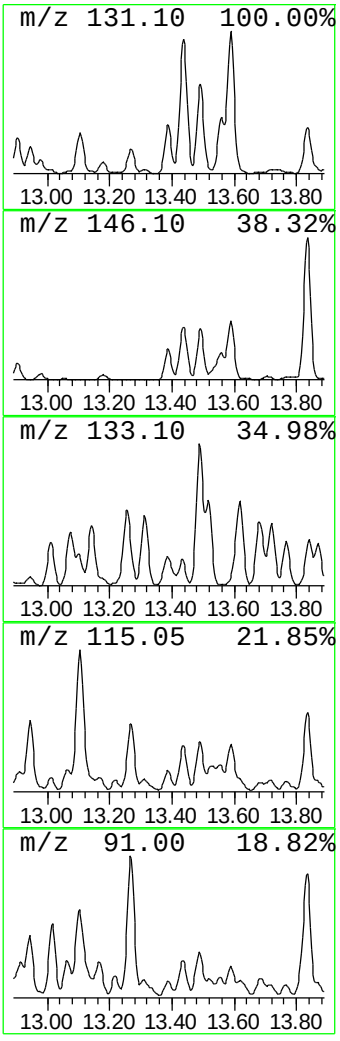
**********

Peak Number 53 Benzene, (1,2-dimethyl-1-pr... Concentration Rank 69

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.39 | 29.06 ug/L | 2444810 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14 | 000769-57-3 | 95 |
| 2 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 91 |
| 3 | Benzene, (1-methyl-1-butenyl)- | 146 | C11H14 | 053172-84-2 | 90 |
| 4 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 83 |
| 5 | 2-Butene, 3-chloro-1-phenyl-, (Z)- | 166 | C10H11Cl | 016608-68-7 | 83 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

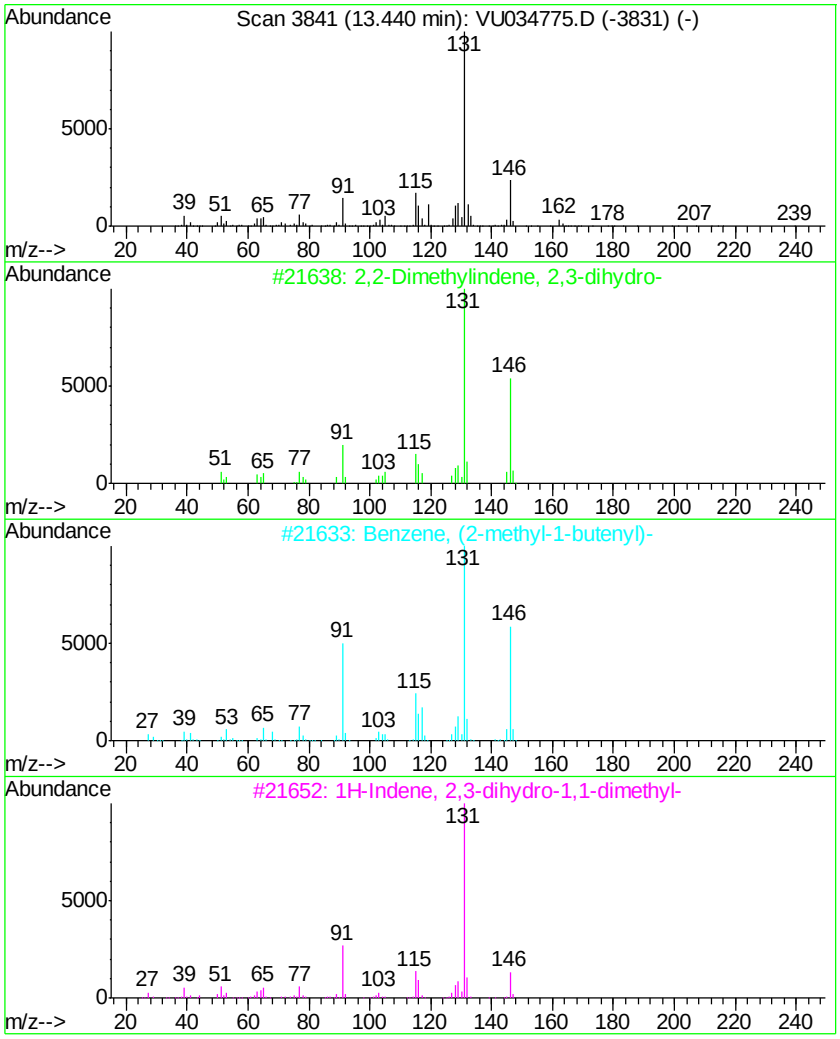
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

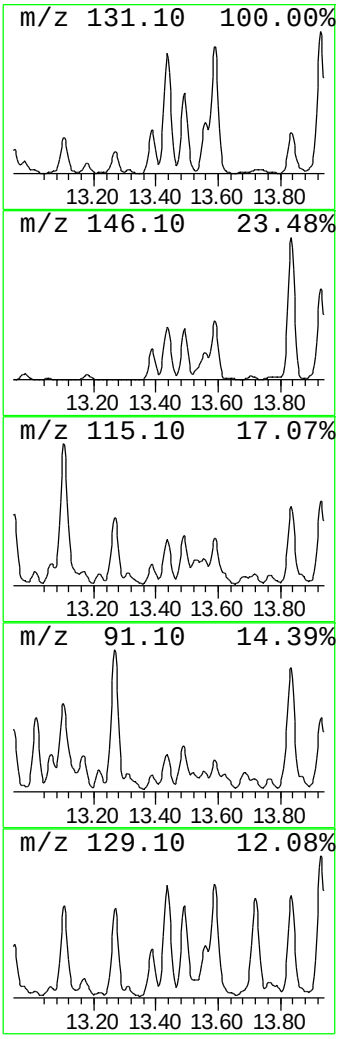
**********

Peak Number 54 2,2-Dimethylindene, 2,3-dih... Concentration Rank 48

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.44 | 49.77 ug/L | 4187200 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,2-Dimethylindene, 2,3-dihydro- | 146 | C11H14 | 020836-11-7 | 91 |
| 2 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 91 |
| 3 | 1H-Indene, 2,3-dihydro-1,1-dimet... | 146 | C11H14 | 004912-92-9 | 87 |
| 4 | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14 | 017059-48-2 | 87 |
| 5 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001559-81-5 | 87 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

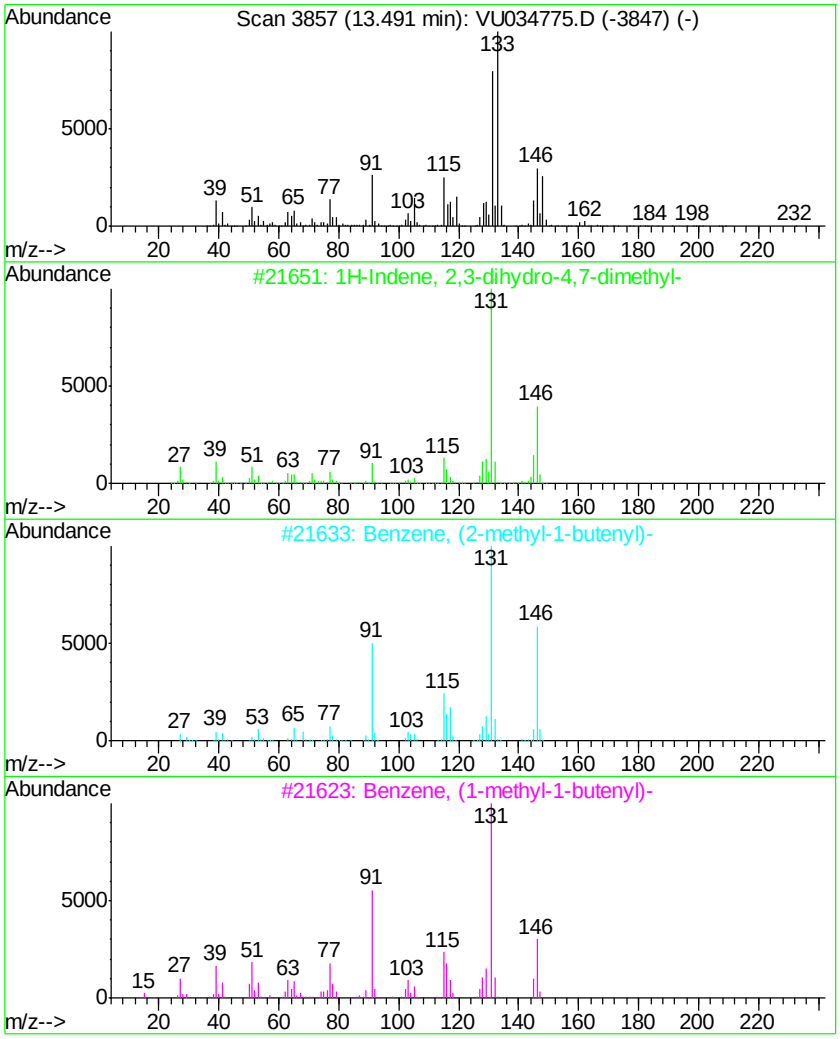
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

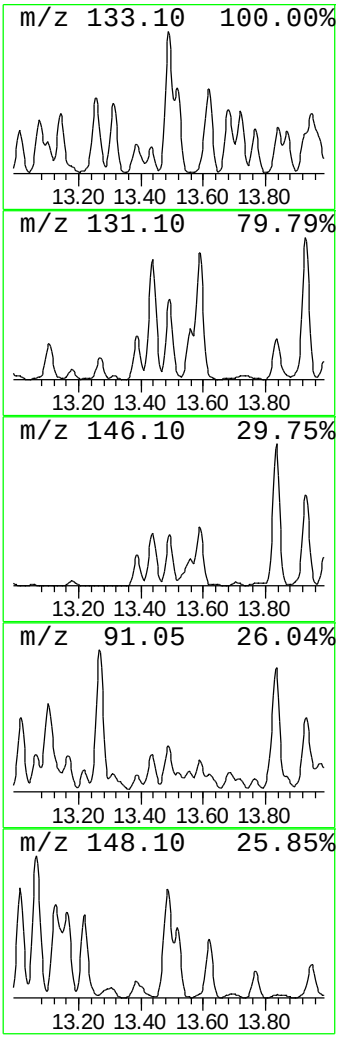
**********

Peak Number 55 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.49 | 73.44 ug/L | 6179020 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 86 |
| 2 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 86 |
| 3 | Benzene, (1-methyl-1-butenyl)- | 146 | C11H14 | 053172-84-2 | 64 |
| 4 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 50 |
| 5 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 50 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

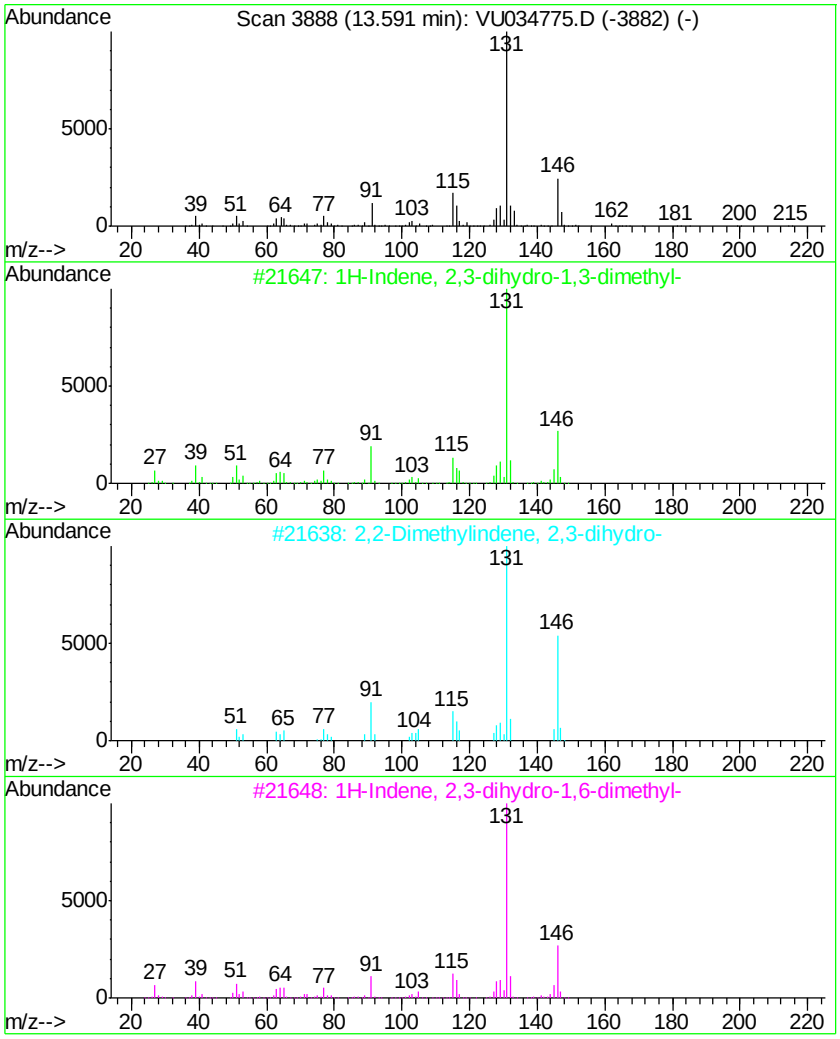
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

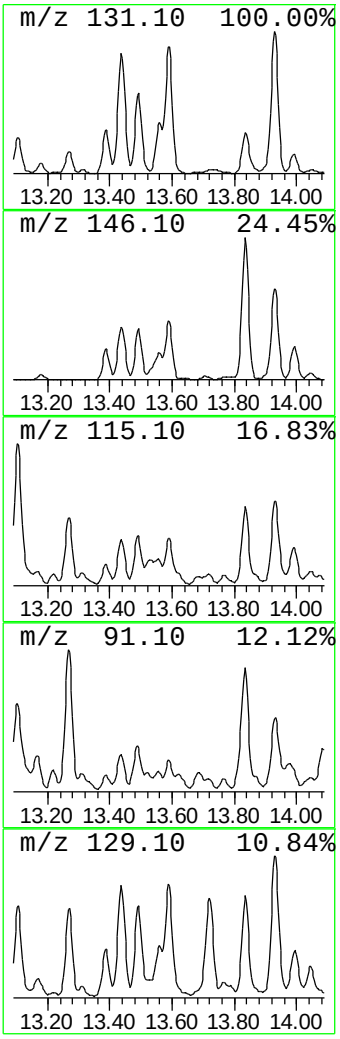
**********

Peak Number 56 1H-Indene, 2,3-dihydro-1,3-... Concentration Rank 73

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.59 | 25.26 ug/L | 2125590 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14 | 004175-53-5 | 91 |
| 2 | 2,2-Dimethylindene, 2,3-dihydro- | 146 | C11H14 | 020836-11-7 | 91 |
| 3 | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14 | 017059-48-2 | 91 |
| 4 | 1H-Indene, 2,3-dihydro-1,1-dimet... | 146 | C11H14 | 004912-92-9 | 91 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 146 | C11H14 | 027087-54-3 | 87 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

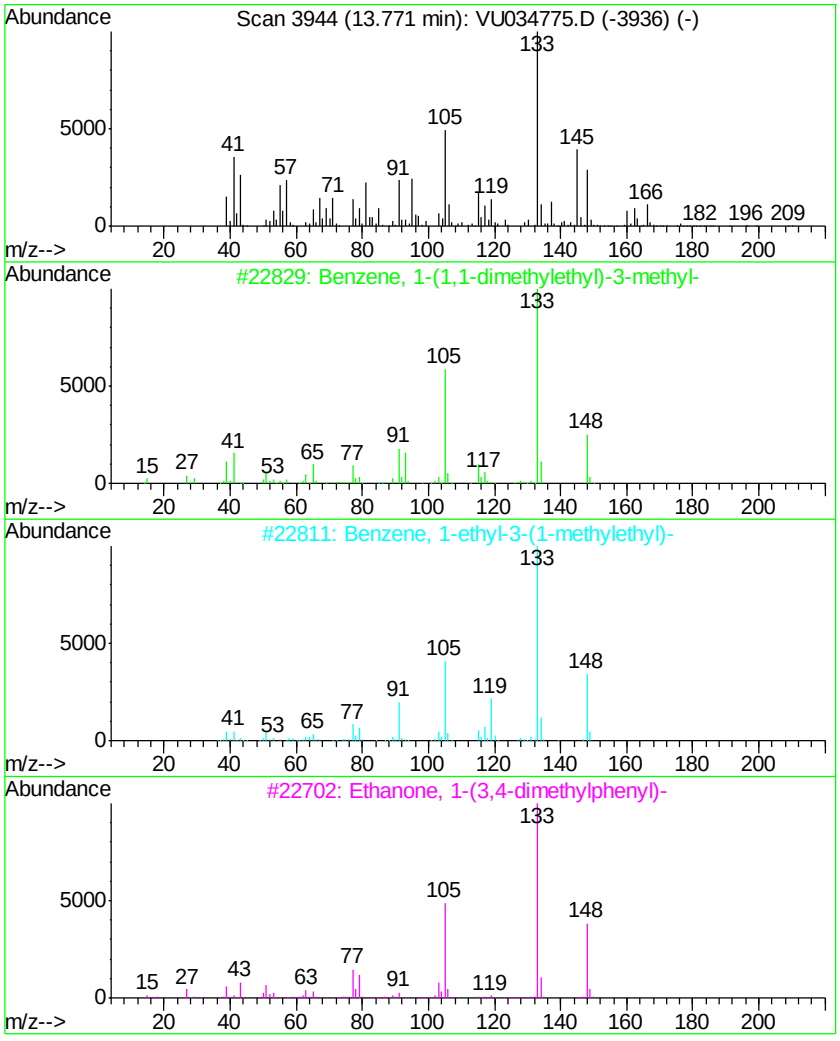
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

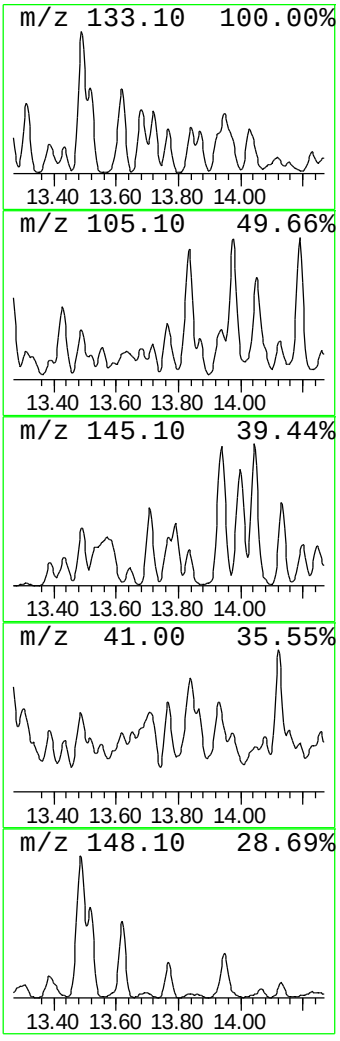
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 58 Benzene, 1-(1,1-dimethyleth... Concentration Rank 75

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.77 | 20.54 ug/L | 1728220 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-(1,1-dimethylethyl)-3... | 148 | C11H16 | 001075-38-3 | 60 |
| 2 | Benzene, 1-ethyl-3-(1-methylethyl)- | 148 | C11H16 | 004920-99-4 | 60 |
| 3 | Ethanone, 1-(3,4-dimethylphenyl)- | 148 | C10H12O | 003637-01-2 | 55 |
| 4 | Benzene, 1,4-diethyl-2-methyl- | 148 | C11H16 | 013632-94-5 | 53 |
| 5 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

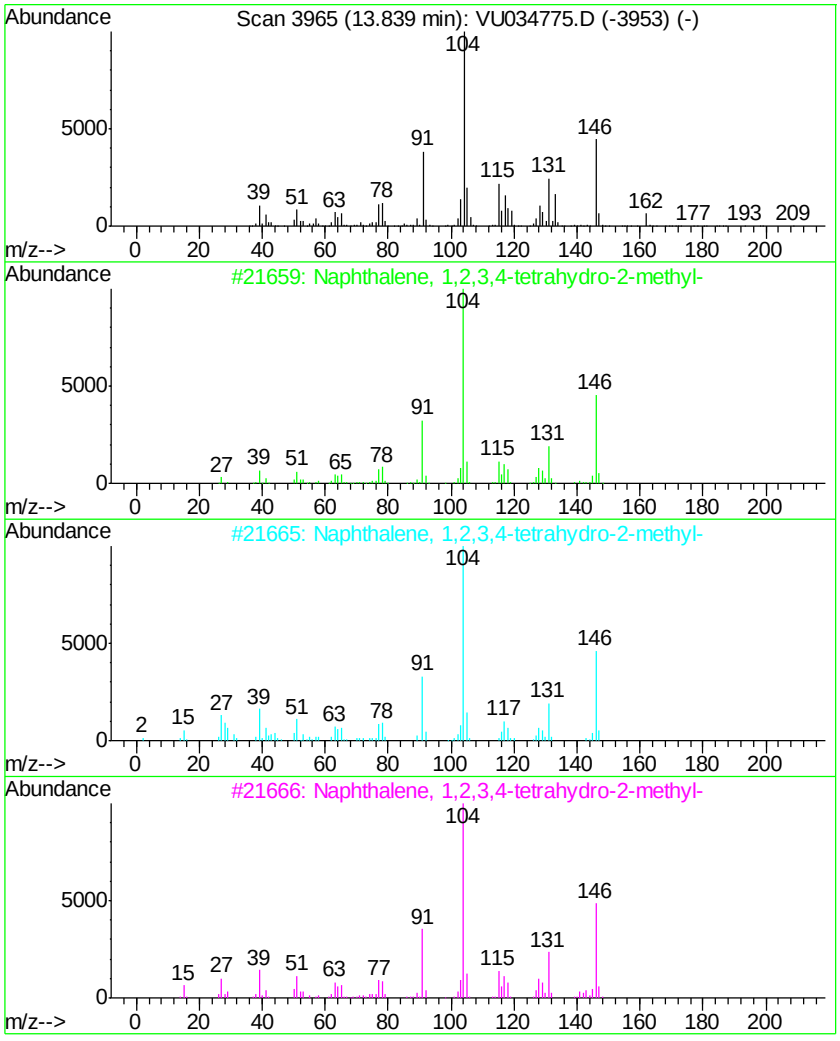
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

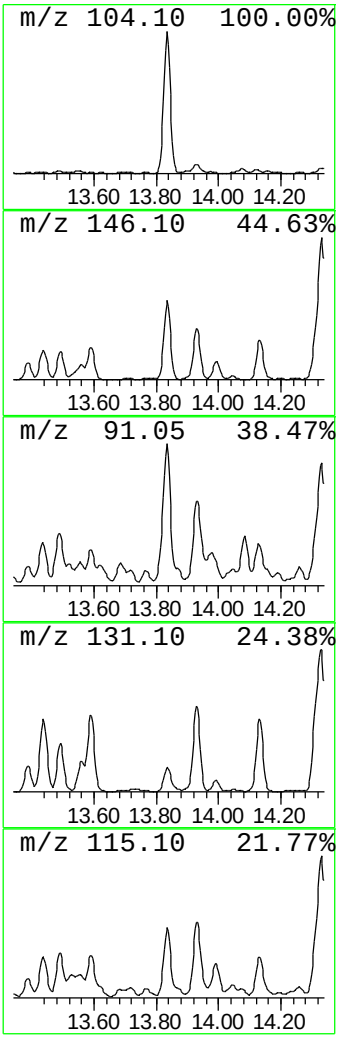
**********

Peak Number 59 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.84 | 128.94 ug/L | 10847800 | 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 | 81 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 003877-19-8 | 81 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 003877-19-8 | 81 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 003877-19-8 | 76 |
| 5 | Naphth[1,2-b]oxirene, 1a,2,3,7b-... | 146 | C10H10O | 002461-34-9 | 58 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

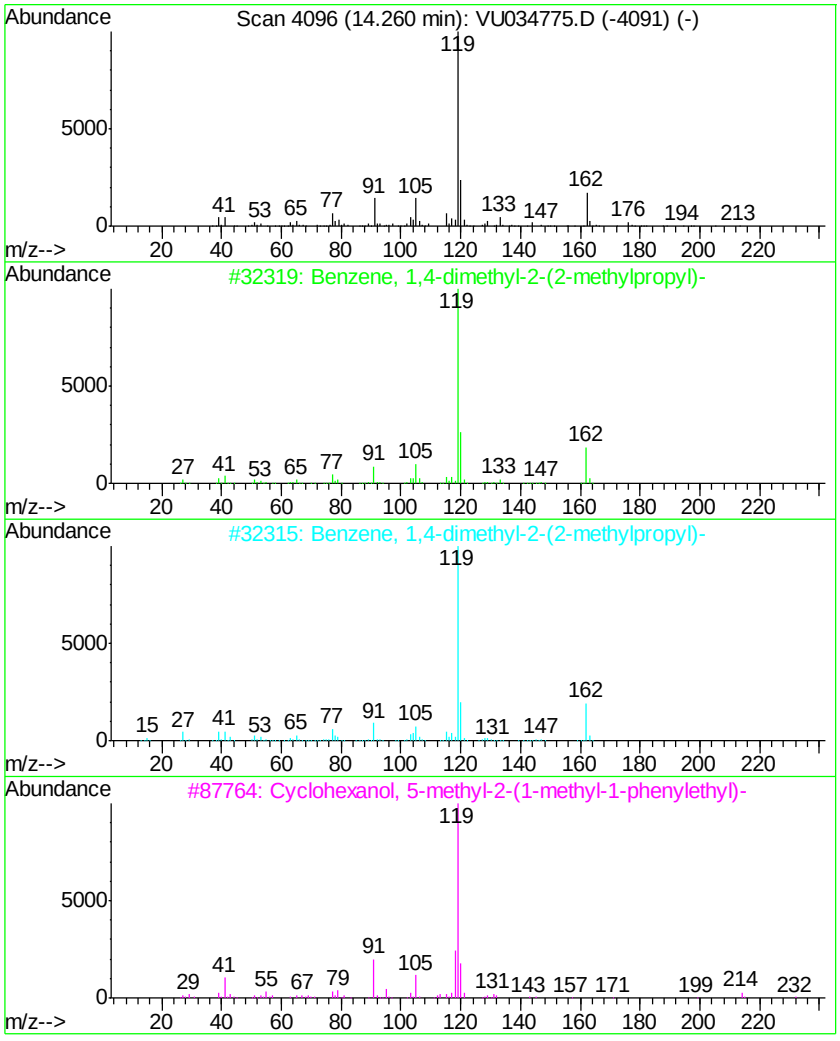
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

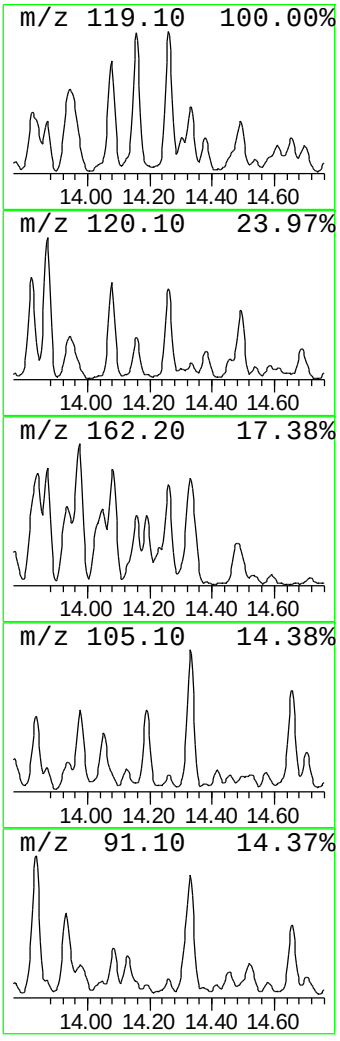
**********

Peak Number 62 Benzene, 1,4-dimethyl-2-(2-... Concentration Rank 80

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.26 | 16.06 ug/L | 1351510 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,4-dimethyl-2-(2-methy... | 162 | C12H18 | 055669-88-0 | 91 |
| 2 | Benzene, 1,4-dimethyl-2-(2-methy... | 162 | C12H18 | 055669-88-0 | 87 |
| 3 | Cyclohexanol, 5-methyl-2-(1-meth... | 232 | C16H24O | 134256-18-1 | 72 |
| 4 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 64 |
| 5 | Benzene, (1,1-dimethylbutyl)- | 162 | C12H18 | 001985-57-5 | 64 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

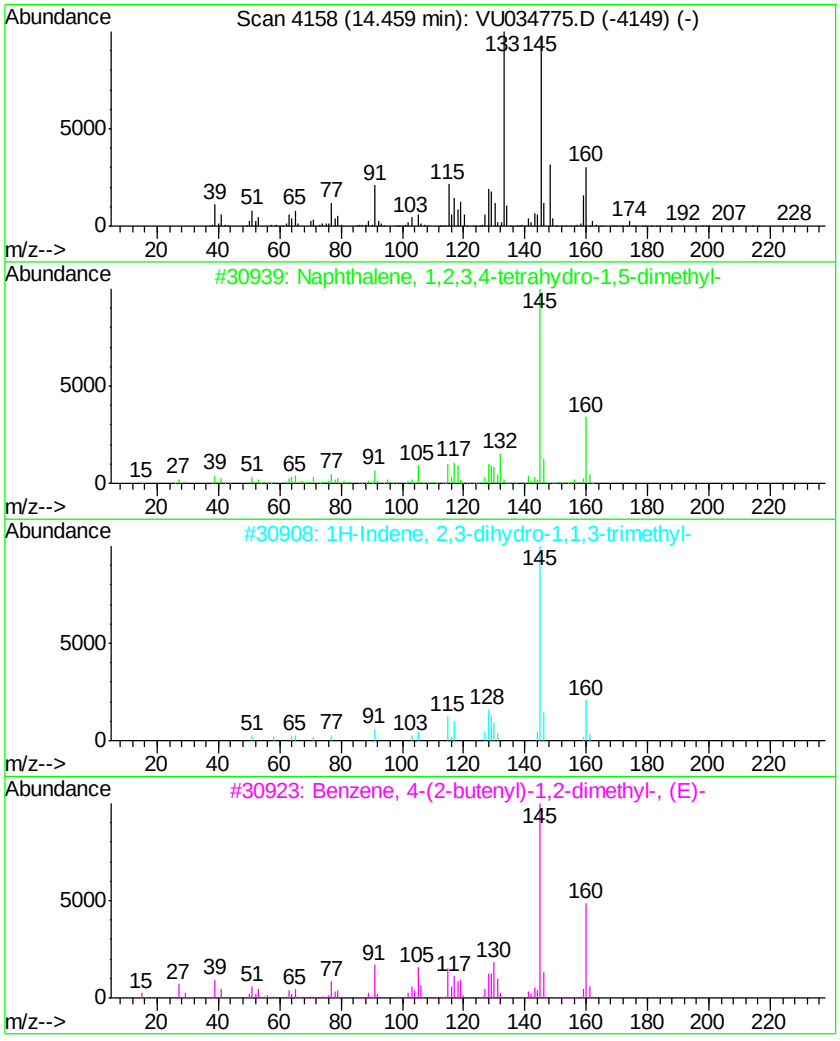
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM091919WMA.M
Quant Title : VOC Analysis

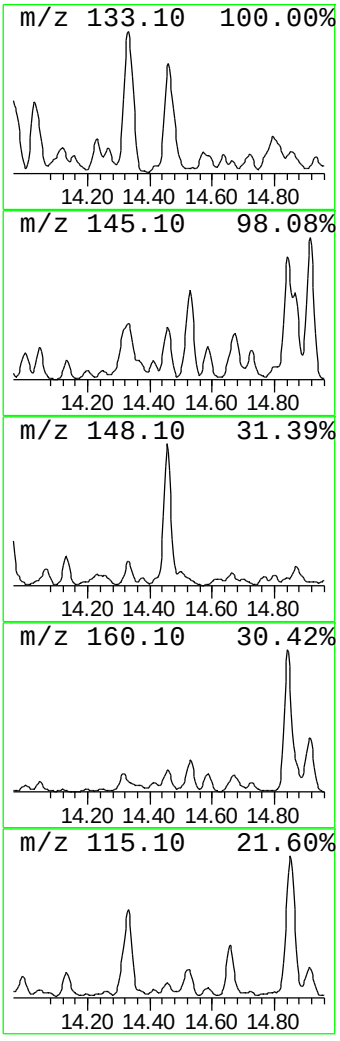
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 64 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 64

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.46 | 34.51 ug/L | 2903390 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 021564-91-0 | 55 |
| 2 | 1H-Indene, 2,3-dihydro-1,1,3-tri... | 160 | C12H16 | 002613-76-5 | 55 |
| 3 | Benzene, 4-(2-butenyl)-1,2-dimet... | 160 | C12H16 | 054340-86-2 | 55 |
| 4 | 1H-Indene, 2,3-dihydro-1,5,7-tri... | 160 | C12H16 | 054340-88-4 | 50 |
| 5 | Naphthalene, 1,2,3,4-tetrahydro-... | 160 | C12H16 | 004175-54-6 | 50 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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

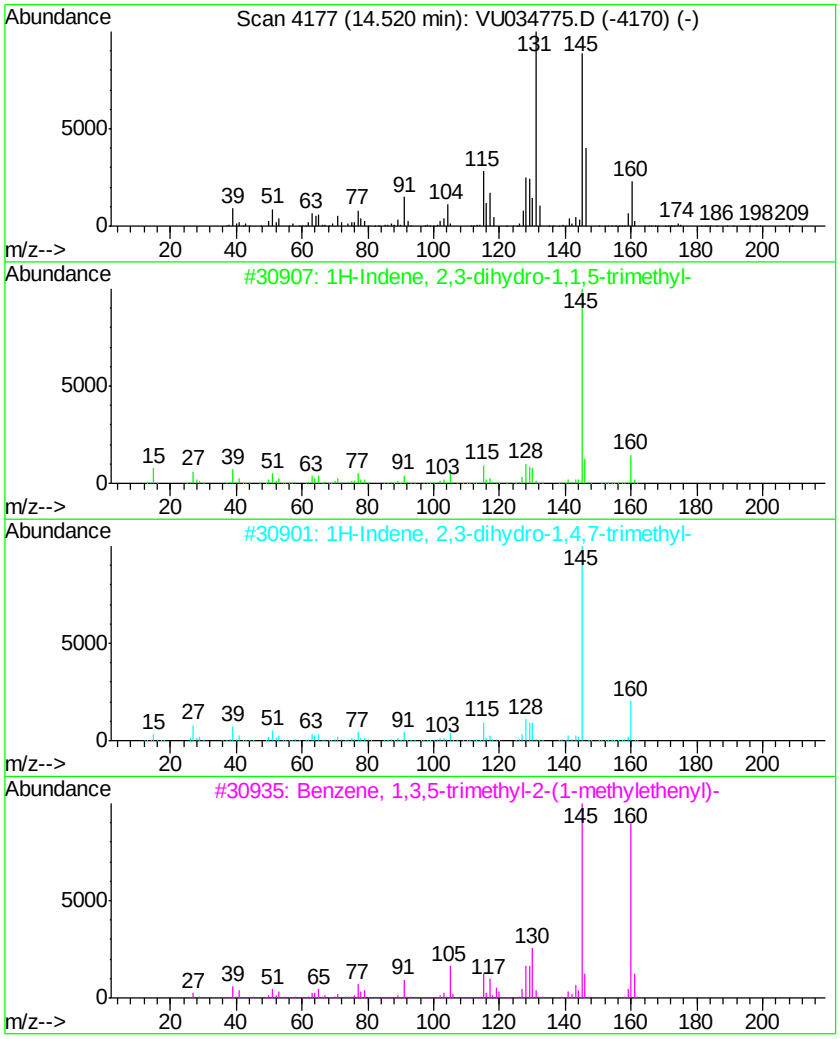
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

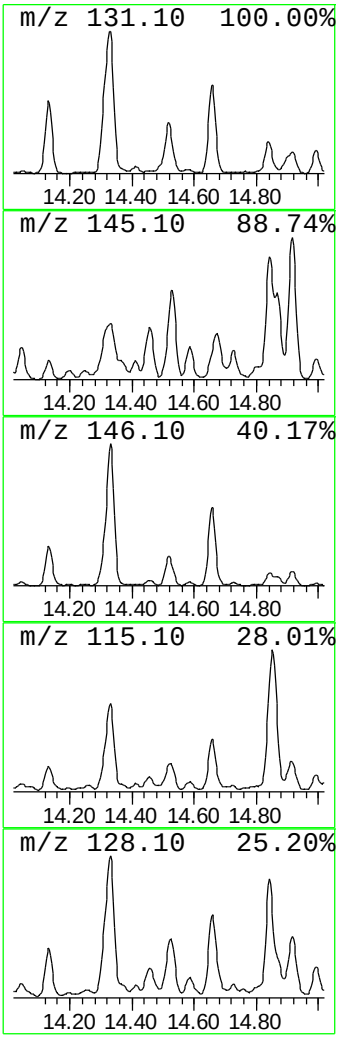
**********

Peak Number 65 1H-Indene, 2,3-dihydro-1,1,... Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.52 | 77.48 ug/L | 6518960 | 1,4-Dichlorobenzene-d4 | 11.46 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-1,1,5-tri... | 160 | C12H16 | 040650-41-7 | 60 |
| 2 | 1H-Indene, 2,3-dihydro-1,4,7-tri... | 160 | C12H16 | 054340-87-3 | 55 |
| 3 | Benzene, 1,3,5-trimethyl-2-(1-me... | 160 | C12H16 | 014679-13-1 | 55 |
| 4 | 1,4-Methanonaphthalen-9-ol, 1,2,... | 160 | C11H12O | 055255-94-2 | 55 |
| 5 | 1H-Indene, 2,3-dihydro-1,5,7-tri... | 160 | C12H16 | 054340-88-4 | 53 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU092419\
Data File : VU034775.D
Acq On : 24 Sep 2019 16:48
Operator : JC/SP
Sample : K4984-11
Misc : 6.04g/5.0ml/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 13 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** BEDM6

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 |
| (DEL) Alkane: Str... | 7.15 | 45.8 | ug/L | 1329480 | 1 | 5.86 | 1452330 | 50.0 |
| (DEL) Alkane: Str... | 7.31 | 46.7 | ug/L | 1356170 | 1 | 5.86 | 1452330 | 50.0 |
| (DEL) Alkane: Cyc... | 7.89 | 40.7 | ug/L | 1330910 | 2 | 9.07 | 1636790 | 50.0 |
| (DEL) Alkane: Cyc... | 8.02 | 34.3 | ug/L | 1123030 | 2 | 9.07 | 1636790 | 50.0 |
| (DEL) Alkane: Cyc... | 8.46 | 37.6 | ug/L | 1232140 | 2 | 9.07 | 1636790 | 50.0 |
| (DEL) Alkane: Cyc... | 8.52 | 72.4 | ug/L | 2370320 | 2 | 9.07 | 1636790 | 50.0 |
| (DEL) Alkane: Cyc... | 8.58 | 51.7 | ug/L | 1693500 | 2 | 9.07 | 1636790 | 50.0 |
| (DEL) Alkane: Cyc... | 8.83 | 35.5 | ug/L | 1162550 | 2 | 9.07 | 1636790 | 50.0 |
| (DEL) Alkane: Str... | 8.89 | 95.8 | ug/L | 3136630 | 2 | 9.07 | 1636790 | 50.0 |
| (DEL) Alkane: Str... | 9.01 | 79.9 | ug/L | 2616050 | 2 | 9.07 | 1636790 | 50.0 |
| (DEL) Alkane: Str... | 9.42 | 263.4 | ug/L | 8621350 | 2 | 9.07 | 1636790 | 50.0 |
| (DEL) Alkane: Cyc... | 9.70 | 72.5 | ug/L | 2371880 | 2 | 9.07 | 1636790 | 50.0 |
| (DEL) Alkane: Str... | 9.93 | 101.7 | ug/L | 3327430 | 2 | 9.07 | 1636790 | 50.0 |
| (DEL) Alkane: Cyc... | 10.02 | 120.8 | ug/L | 3955210 | 2 | 9.07 | 1636790 | 50.0 |
| (DEL) Alkane: Str... | 10.07 | 31.6 | ug/L | 1032780 | 2 | 9.07 | 1636790 | 50.0 |
| (DEL) Alkane: Str... | 10.30 | 19.9 | ug/L | 1677280 | 3 | 11.46 | 4206670 | 50.0 |
| (DEL) Alkane: Str... | 10.33 | 19.5 | ug/L | 1638730 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, propyl- | 10.57 | 62.6 | ug/L | 5263700 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 1-ethyl-... | 10.66 | 207.3 | ug/L | 17443600 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 1,2,3-tr... | 10.75 | 79.5 | ug/L | 6688910 | 3 | 11.46 | 4206670 | 50.0 |
| (DEL) Alkane: Str... | 10.79 | 89.6 | ug/L | 7540570 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 1-ethyl-... | 10.95 | 107.9 | ug/L | 9077570 | 3 | 11.46 | 4206670 | 50.0 |
| 2-Tolyloxirane | 11.30 | 83.2 | ug/L | 7001240 | 3 | 11.46 | 4206670 | 50.0 |
| (DEL) Alkane: Cyc... | 11.38 | 26.1 | ug/L | 2196400 | 3 | 11.46 | 4206670 | 50.0 |
| (DEL) Alkane: Str... | 11.68 | 17.9 | ug/L | 1509980 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 1,2-diet... | 11.76 | 58.8 | ug/L | 4944770 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 1-methyl... | 11.79 | 104.0 | ug/L | 8752460 | 3 | 11.46 | 4206670 | 50.0 |
| (DEL) Alkane: Str... | 12.01 | 53.9 | ug/L | 4534010 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 1-methyl... | 12.03 | 84.7 | ug/L | 7127760 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 2-ethyl-... | 12.12 | 61.5 | ug/L | 5171100 | 3 | 11.46 | 4206670 | 50.0 |
| o-Cymene | 12.16 | 65.0 | ug/L | 5469660 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 1-ethyl-... | 12.23 | 75.5 | ug/L | 6350910 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, (2-methy... | 12.33 | 50.8 | ug/L | 4273220 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 1-methyl... | 12.38 | 105.0 | ug/L | 8831840 | 3 | 11.46 | 4206670 | 50.0 |
| Disiloxane, 1,1,3... | 12.47 | 63.9 | ug/L | 5375990 | 3 | 11.46 | 4206670 | 50.0 |
| (DEL) Alkane: Cyc... | 12.59 | 30.1 | ug/L | 2535210 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 1,2,4,5-... | 12.63 | 39.0 | ug/L | 3283350 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 1,2,3,4-... | 12.68 | 86.2 | ug/L | 7253790 | 3 | 11.46 | 4206670 | 50.0 |
| 2,4-Dimethylstyrene | 12.94 | 85.0 | ug/L | 7149320 | 3 | 11.46 | 4206670 | 50.0 |
| 2-Methyl-7-endo-v... | 13.01 | 40.1 | ug/L | 3371680 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 2-etheny... | 13.10 | 174.4 | ug/L | 14675800 | 3 | 11.46 | 4206670 | 50.0 |
| Naphthalene, 1,2,... | 13.27 | 121.2 | ug/L | 10194800 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 1,3,5-tr... | 13.31 | 35.0 | ug/L | 2945820 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, (1,2-dim... | 13.39 | 29.1 | ug/L | 2444810 | 3 | 11.46 | 4206670 | 50.0 |
| 2,2-Dimethylinden... | 13.44 | 49.8 | ug/L | 4187200 | 3 | 11.46 | 4206670 | 50.0 |
| 1H-Indene, 2,3-di... | 13.49 | 73.4 | ug/L | 6179020 | 3 | 11.46 | 4206670 | 50.0 |
| 1H-Indene, 2,3-di... | 13.59 | 25.3 | ug/L | 2125590 | 3 | 11.46 | 4206670 | 50.0 |
| Benzene, 1-(1,1-d... | 13.77 | 20.5 | ug/L | 1728220 | 3 | 11.46 | 4206670 | 50.0 |
| Naphthalene, 1,2,... | 13.84 | 128.9 | ug/L | 10847800 | 3 | 11.46 | 4206670 | 50.0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Benzene, 1,4-dime... | 14.26 | 16.1 | ug/L | 1351510 | 3 | 11.46 | 4206670 | 50.0 |
| Naphthalene, 1,2,... | 14.46 | 34.5 | ug/L | 2903390 | 3 | 11.46 | 4206670 | 50.0 |
| 1H-Indene, 2,3-di... | 14.52 | 77.5 | ug/L | 6518960 | 3 | 11.46 | 4206670 | 50.0 |

**Instrument :**
MSVOA_U
**ClientSampleId :**
BEDM6