LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

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\SOMULM042719WMA.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 | 1.396 | 88 | 95 | 109 | rBV | 255901 | 366583 | 0.26% | 0.047% |
| 2 | 1.682 | 176 | 184 | 200 | rBV | 178004 | 358273 | 0.25% | 0.046% |
| 3 | 2.241 | 348 | 358 | 383 | rVB | 582739 | 1000366 | 0.70% | 0.127% |
| 4 | 4.219 | 957 | 973 | 1028 | rBV | 176133 | 1087972 | 0.76% | 0.139% |
| 5 | 4.643 | 1088 | 1105 | 1138 | rBV2 | 476147 | 1316849 | 0.92% | 0.168% |
| 6 | 5.331 | 1296 | 1319 | 1323 | rBV2 | 1261171 | 3051049 | 2.12% | 0.389% |
| 7 | 5.379 | 1324 | 1334 | 1368 | rVB | 5528184 | 12631927 | 8.79% | 1.610% |
| 8 | 5.640 | 1397 | 1415 | 1428 | rBV8 | 18792 | 53193 | 0.04% | 0.007% |
| 9 | 5.775 | 1449 | 1457 | 1471 | rVB9 | 9608 | 20139 | 0.01% | 0.003% |
| 10 | 5.881 | 1475 | 1490 | 1527 | rBV | 1090939 | 2580497 | 1.80% | 0.329% |
| 11 | 6.180 | 1569 | 1583 | 1587 | rBV10 | 14855 | 28223 | 0.02% | 0.004% |
| 12 | 6.328 | 1613 | 1629 | 1665 | rVB | 702997 | 1691034 | 1.18% | 0.215% |
| 13 | 6.897 | 1796 | 1806 | 1822 | rBV | 7958 | 19418 | 0.01% | 0.002% |
| 14 | 7.228 | 1897 | 1909 | 1937 | rVB2 | 361070 | 817930 | 0.57% | 0.104% |
| 15 | 7.428 | 1961 | 1971 | 1981 | rVB6 | 22408 | 41011 | 0.03% | 0.005% |
| 16 | 7.563 | 1990 | 2013 | 2026 | rBV | 1335160 | 2687707 | 1.87% | 0.342% |
| 17 | 7.633 | 2026 | 2035 | 2065 | rVB | 1276252 | 2616830 | 1.82% | 0.333% |
| 18 | 7.817 | 2082 | 2092 | 2096 | rBV | 64235 | 96242 | 0.07% | 0.012% |
| 19 | 7.852 | 2096 | 2103 | 2129 | rVB | 205650 | 510661 | 0.36% | 0.065% |
| 20 | 8.347 | 2240 | 2257 | 2288 | rBV | 885151 | 2617989 | 1.82% | 0.334% |
| 21 | 8.540 | 2309 | 2317 | 2326 | rVB4 | 27783 | 42380 | 0.03% | 0.005% |
| 22 | 8.604 | 2326 | 2337 | 2344 | rBV3 | 30500 | 54766 | 0.04% | 0.007% |
| 23 | 8.749 | 2371 | 2382 | 2393 | rBV4 | 39982 | 75530 | 0.05% | 0.010% |
| 24 | 8.817 | 2394 | 2403 | 2406 | rBV4 | 15084 | 25056 | 0.02% | 0.003% |
| 25 | 8.845 | 2407 | 2412 | 2421 | rVV6 | 16555 | 33369 | 0.02% | 0.004% |
| 26 | 8.907 | 2423 | 2431 | 2441 | rVB4 | 48368 | 79836 | 0.06% | 0.010% |
| 27 | 9.029 | 2459 | 2469 | 2476 | rVB3 | 53252 | 82918 | 0.06% | 0.011% |
| 28 | 9.093 | 2477 | 2489 | 2511 | rBV | 1509334 | 3107612 | 2.16% | 0.396% |
| 29 | 9.251 | 2523 | 2538 | 2561 | rBV2 | 20982483 | 38292522 | 26.66% | 4.880% |
| 30 | 9.376 | 2562 | 2577 | 2591 | rVV | 22215459 | 40940146 | 28.50% | 5.217% |
| 31 | 9.440 | 2591 | 2597 | 2619 | rVB | 585720 | 974852 | 0.68% | 0.124% |
| 32 | 9.556 | 2621 | 2633 | 2652 | rVB5 | 80504 | 207803 | 0.14% | 0.026% |
| 33 | 9.653 | 2654 | 2663 | 2669 | rBV9 | 23460 | 40144 | 0.03% | 0.005% |
| 34 | 9.720 | 2670 | 2684 | 2690 | rBV7 | 96667 | 226782 | 0.16% | 0.029% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

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\SOMULM042719WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 9.781 | 2690 | 2703 | 2737 | rVB | 11383563 | 20282824 | 14.12% | 2.585% |
| 36 | 9.948 | 2738 | 2755 | 2766 | rBV2 | 318067 | 609291 | 0.42% | 0.078% |
| 37 | 10.042 | 2776 | 2784 | 2793 | rBV5 | 205447 | 356565 | 0.25% | 0.045% |
| 38 | 10.167 | 2812 | 2823 | 2834 | rBV | 499787 | 956061 | 0.67% | 0.122% |
| 39 | 10.318 | 2858 | 2870 | 2876 | rBV3 | 271070 | 528868 | 0.37% | 0.067% |
| 40 | 10.440 | 2896 | 2908 | 2918 | rBV | 1227926 | 2288304 | 1.59% | 0.292% |
| 41 | 10.588 | 2944 | 2954 | 2963 | rBV | 657283 | 1061548 | 0.74% | 0.135% |
| 42 | 10.685 | 2973 | 2984 | 2988 | rBV | 3424712 | 5754003 | 4.01% | 0.733% |
| 43 | 10.771 | 3000 | 3011 | 3018 | rBV | 4522898 | 7373738 | 5.13% | 0.940% |
| 44 | 10.810 | 3018 | 3023 | 3035 | rVB | 3223965 | 4611824 | 3.21% | 0.588% |
| 45 | 10.997 | 3064 | 3081 | 3093 | rVB2 | 2299393 | 5547877 | 3.86% | 0.707% |
| 46 | 11.064 | 3096 | 3102 | 3109 | rBV4 | 178381 | 242147 | 0.17% | 0.031% |
| 47 | 11.148 | 3109 | 3128 | 3139 | rBV | 14849798 | 24591929 | 17.12% | 3.134% |
| 48 | 11.215 | 3139 | 3149 | 3158 | rVV | 11273668 | 17078093 | 11.89% | 2.176% |
| 49 | 11.267 | 3158 | 3165 | 3176 | rVB | 2828828 | 4210015 | 2.93% | 0.536% |
| 50 | 11.331 | 3178 | 3185 | 3195 | rVB4 | 513871 | 849699 | 0.59% | 0.108% |
| 51 | 11.402 | 3196 | 3207 | 3224 | rBV4 | 2193245 | 4541899 | 3.16% | 0.579% |
| 52 | 11.485 | 3224 | 3233 | 3241 | rBV2 | 1999940 | 3102033 | 2.16% | 0.395% |
| 53 | 11.569 | 3250 | 3259 | 3268 | rBV | 5339252 | 7813233 | 5.44% | 0.996% |
| 54 | 11.627 | 3268 | 3277 | 3293 | rVB | 4297858 | 6994232 | 4.87% | 0.891% |
| 55 | 11.701 | 3294 | 3300 | 3308 | rVB2 | 407910 | 563765 | 0.39% | 0.072% |
| 56 | 11.765 | 3309 | 3320 | 3330 | rBV | 7310186 | 12034831 | 8.38% | 1.534% |
| 57 | 11.865 | 3341 | 3351 | 3368 | rVB6 | 3146872 | 6937697 | 4.83% | 0.884% |
| 58 | 11.987 | 3375 | 3389 | 3398 | rBV2 | 68821512 | 129303215 | 90.02% | 16.477% |
| 59 | 12.148 | 3431 | 3439 | 3441 | rBV2 | 827424 | 1056617 | 0.74% | 0.135% |
| 60 | 12.177 | 3442 | 3448 | 3455 | rVB3 | 1465833 | 1986663 | 1.38% | 0.253% |
| 61 | 12.222 | 3455 | 3462 | 3466 | rBV3 | 1388923 | 2047303 | 1.43% | 0.261% |
| 62 | 12.353 | 3497 | 3503 | 3511 | rBV3 | 1218395 | 1825840 | 1.27% | 0.233% |
| 63 | 12.424 | 3518 | 3525 | 3536 | rVB2 | 2966292 | 4746733 | 3.30% | 0.605% |
| 64 | 12.508 | 3537 | 3551 | 3558 | rBV5 | 1348002 | 3147667 | 2.19% | 0.401% |
| 65 | 12.607 | 3572 | 3582 | 3588 | rBV2 | 2330503 | 3894080 | 2.71% | 0.496% |
| 66 | 12.646 | 3589 | 3594 | 3602 | rVB2 | 1955983 | 2772330 | 1.93% | 0.353% |
| 67 | 12.701 | 3602 | 3611 | 3629 | rBV4 | 4747929 | 11073164 | 7.71% | 1.411% |
| 68 | 12.823 | 3642 | 3649 | 3660 | rVB3 | 1989609 | 3244338 | 2.26% | 0.413% |
| 69 | 12.961 | 3684 | 3692 | 3706 | rVB | 2416514 | 3706601 | 2.58% | 0.472% |
| 70 | 13.032 | 3707 | 3714 | 3723 | rBV4 | 768301 | 1297305 | 0.90% | 0.165% |
| 71 | 13.122 | 3732 | 3742 | 3752 | rBV3 | 11319427 | 19270588 | 13.42% | 2.456% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

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\SOMULM042719WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 13.183 | 3752 | 3761 | 3773 | rVB | 18721103 | 28980408 | 20.18% | 3.693% |
| 73 | 13.289 | 3783 | 3794 | 3815 | rBV | 21624039 | 37851670 | 26.35% | 4.823% |
| 74 | 13.389 | 3816 | 3825 | 3838 | rVB2 | 2927206 | 6010020 | 4.18% | 0.766% |
| 75 | 13.459 | 3839 | 3847 | 3855 | rVB | 1455484 | 2252098 | 1.57% | 0.287% |
| 76 | 13.517 | 3856 | 3865 | 3872 | rBV5 | 1583916 | 2965011 | 2.06% | 0.378% |
| 77 | 13.865 | 3965 | 3973 | 3987 | rVB | 6131743 | 10412807 | 7.25% | 1.327% |
| 78 | 13.951 | 3995 | 4000 | 4009 | rVB8 | 951343 | 1369615 | 0.95% | 0.175% |
| 79 | 14.138 | 4050 | 4058 | 4065 | rBV2 | 3962855 | 6419582 | 4.47% | 0.818% |
| 80 | 14.334 | 4110 | 4119 | 4129 | rBV5 | 4496080 | 8517234 | 5.93% | 1.085% |
| 81 | 14.540 | 4176 | 4183 | 4192 | rVB3 | 1753221 | 3188888 | 2.22% | 0.406% |
| 82 | 14.820 | 4263 | 4270 | 4276 | rBV | 1068121 | 1477188 | 1.03% | 0.188% |
| 83 | 14.881 | 4276 | 4289 | 4302 | rBV3 | 81396699 | 143638575 | 100.00% | 18.304% |
| 84 | 15.061 | 4333 | 4345 | 4360 | rBV2 | 44512186 | 70660066 | 49.19% | 9.004% |
| 85 | 15.601 | 4506 | 4513 | 4523 | rVB | 1337076 | 2103276 | 1.46% | 0.268% |
| 86 | 15.659 | 4526 | 4531 | 4541 | rVB6 | 303140 | 478514 | 0.33% | 0.061% |
| 87 | 15.794 | 4564 | 4573 | 4583 | rBV | 1448906 | 2180334 | 1.52% | 0.278% |
| 88 | 15.910 | 4598 | 4609 | 4624 | rBV | 1634036 | 2917724 | 2.03% | 0.372% |
| 89 | 16.054 | 4644 | 4654 | 4661 | rBV | 1416963 | 2249860 | 1.57% | 0.287% |
| 90 | 16.093 | 4661 | 4666 | 4685 | rVB | 729508 | 1167868 | 0.81% | 0.149% |
| 91 | 16.279 | 4709 | 4724 | 4747 | rVB | 318893 | 856467 | 0.60% | 0.109% |
| 92 | 16.427 | 4763 | 4770 | 4789 | rVB2 | 140447 | 247868 | 0.17% | 0.032% |
| 93 | 16.527 | 4792 | 4801 | 4817 | rVB4 | 230370 | 439447 | 0.31% | 0.056% |
| 94 | 16.733 | 4854 | 4865 | 4882 | rBV | 912736 | 1655257 | 1.15% | 0.211% |
| 95 | 16.813 | 4885 | 4890 | 4900 | rVB2 | 110037 | 154128 | 0.11% | 0.020% |
| 96 | 16.967 | 4933 | 4938 | 4944 | rVV2 | 61473 | 80615 | 0.06% | 0.010% |
| 97 | 17.019 | 4947 | 4954 | 4978 | rVB4 | 146252 | 418081 | 0.29% | 0.053% |
| 98 | 17.163 | 4992 | 4999 | 5008 | rBV3 | 103838 | 166660 | 0.12% | 0.021% |
| 99 | 17.225 | 5010 | 5018 | 5028 | rVB5 | 148089 | 250901 | 0.17% | 0.032% |
| 100 | 17.527 | 5105 | 5112 | 5126 | rVB3 | 86067 | 155957 | 0.11% | 0.020% |

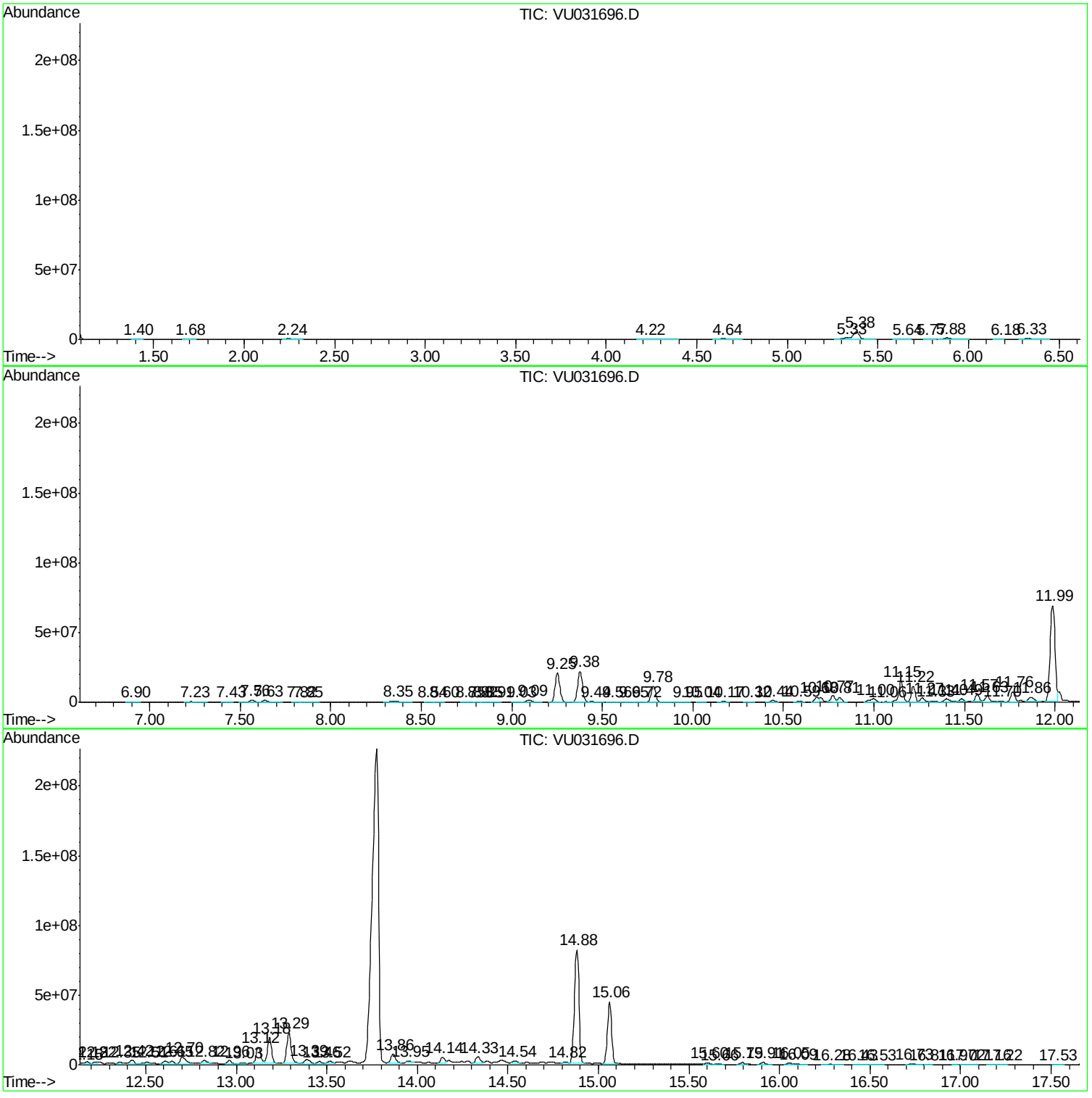
Sum of corrected areas: 784746648

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

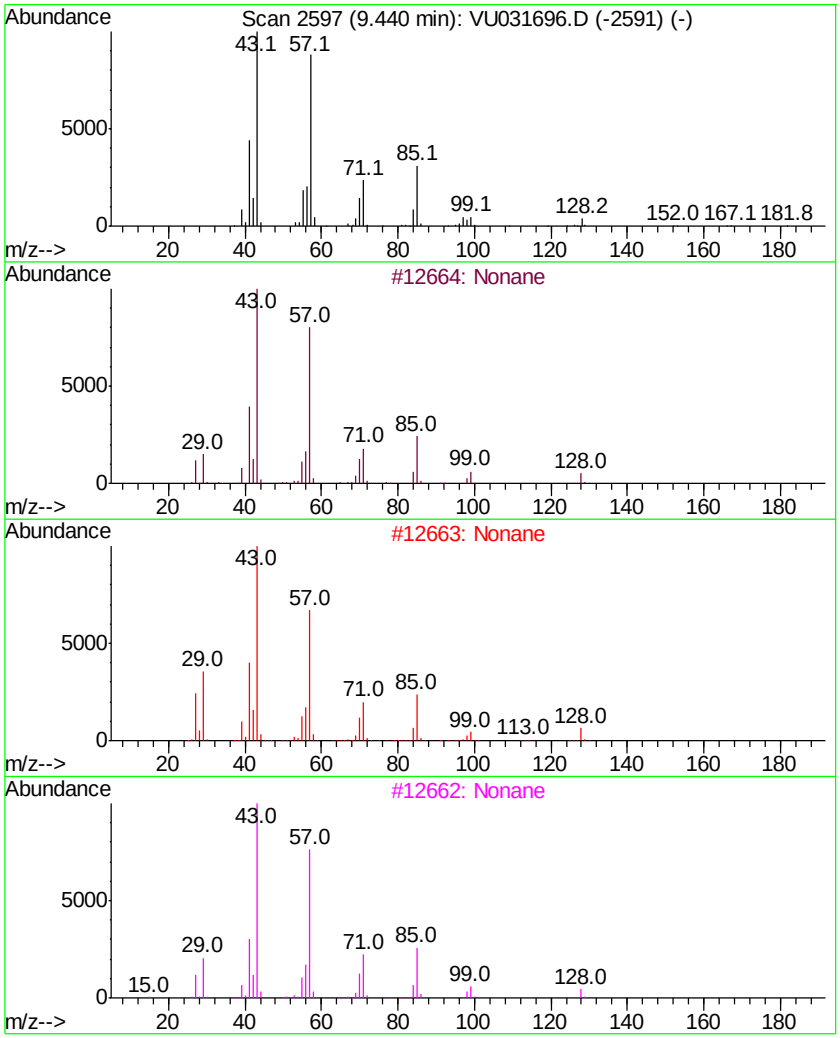
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

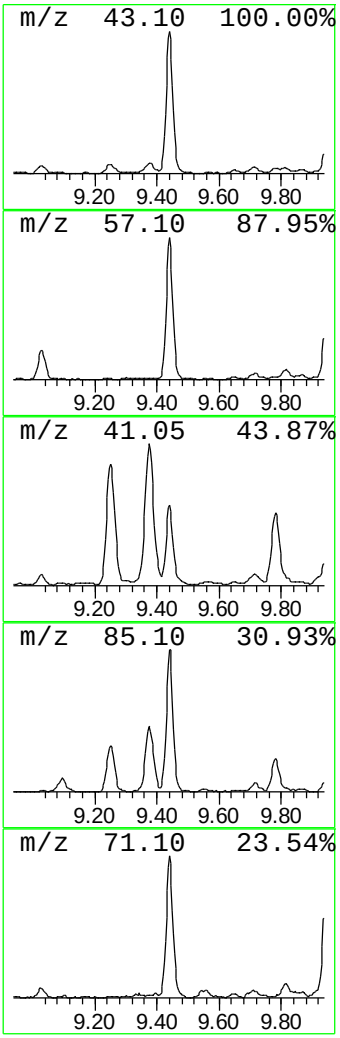
**********

Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 47

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.44 | 15.68 ug/L | 974852 | Chlorobenzene-d5 | 9.09 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane | 128 | C9H20 | 000111-84-2 | 87 |
| 2 | Nonane | 128 | C9H20 | 000111-84-2 | 86 |
| 3 | Nonane | 128 | C9H20 | 000111-84-2 | 72 |
| 4 | Octane | 114 | C8H18 | 000111-65-9 | 59 |
| 5 | Decane | 142 | C10H22 | 000124-18-5 | 59 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

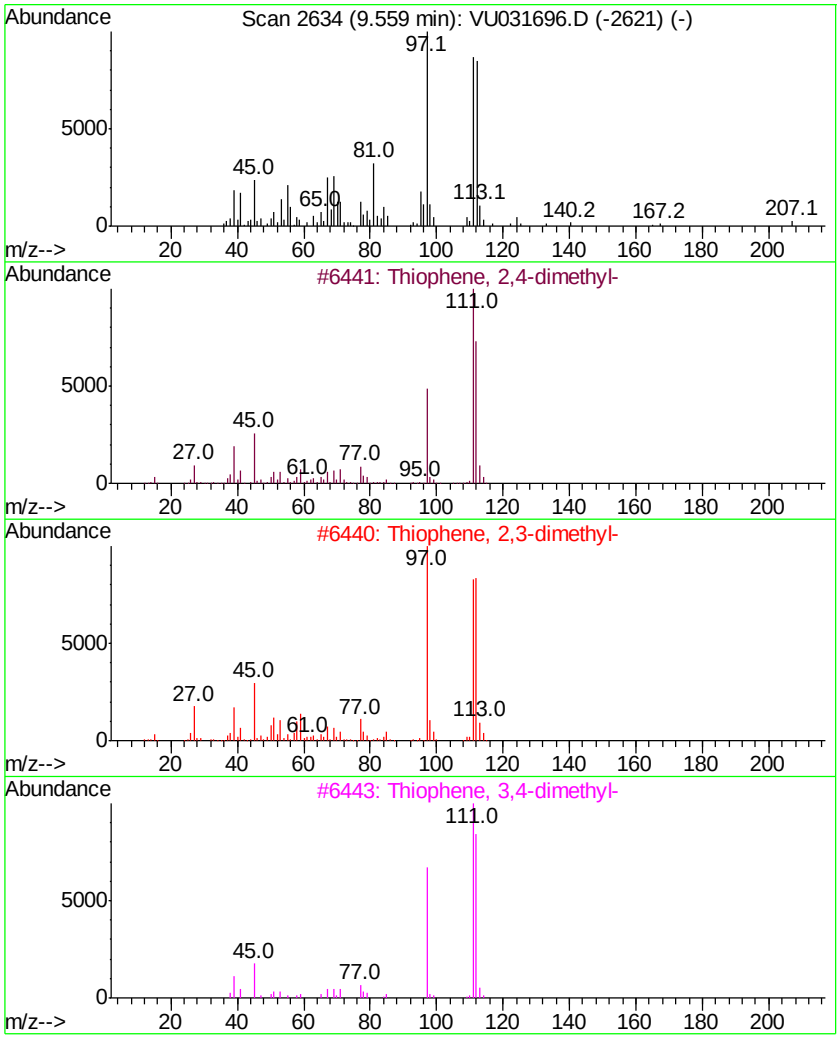
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

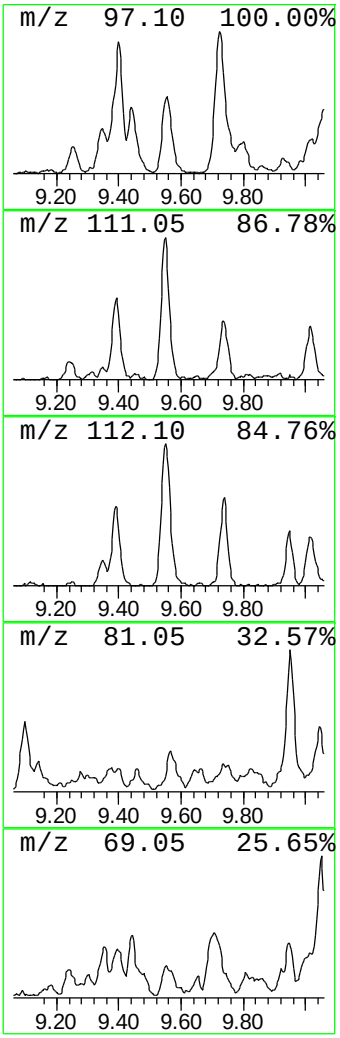
**********

Peak Number 3 Thiophene, 2,4-dimethyl- Concentration Rank 61

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.56 | 3.34 ug/L | 207803 | Chlorobenzene-d5 | 9.09 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Thiophene, 2,4-dimethyl- | 112 | C6H8S | 000638-00-6 | 90 |
| 2 | Thiophene, 2,3-dimethyl- | 112 | C6H8S | 000632-16-6 | 87 |
| 3 | Thiophene, 3,4-dimethyl- | 112 | C6H8S | 000632-15-5 | 86 |
| 4 | Thiophene, 2,5-dimethyl- | 112 | C6H8S | 000638-02-8 | 78 |
| 5 | Thiophene, 2,3-dimethyl- | 112 | C6H8S | 000632-16-6 | 78 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

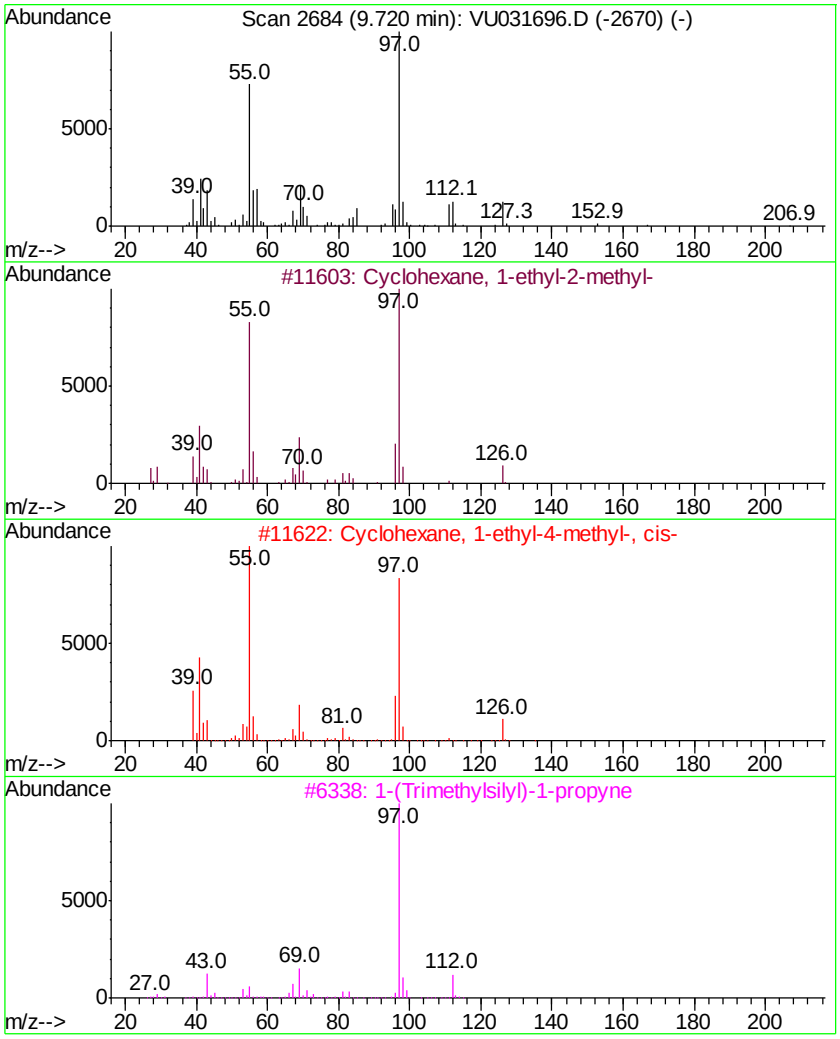
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

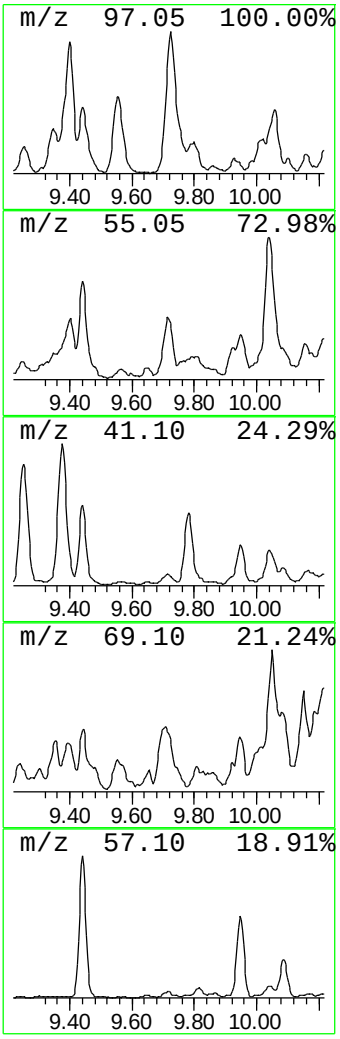
**********

Peak Number 4 (DEL) Alkane: Cyclic9.72 Concentration Rank 60

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.72 | 3.65 ug/L | 226782 | Chlorobenzene-d5 | 9.09 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, 1-ethyl-2-methyl- | 126 | C9H18 | 003728-54-9 | 70 |
| 2 | Cyclohexane, 1-ethyl-4-methyl-, ... | 126 | C9H18 | 004926-78-7 | 52 |
| 3 | 1-(Trimethylsilyl)-1-propyne | 112 | C6H12Si | 006224-91-5 | 52 |
| 4 | Cyclohexane, 1-ethyl-2-methyl-, ... | 126 | C9H18 | 004923-78-8 | 52 |
| 5 | 1-(Trimethylsilyl)-1-propyne | 112 | C6H12Si | 006224-91-5 | 50 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

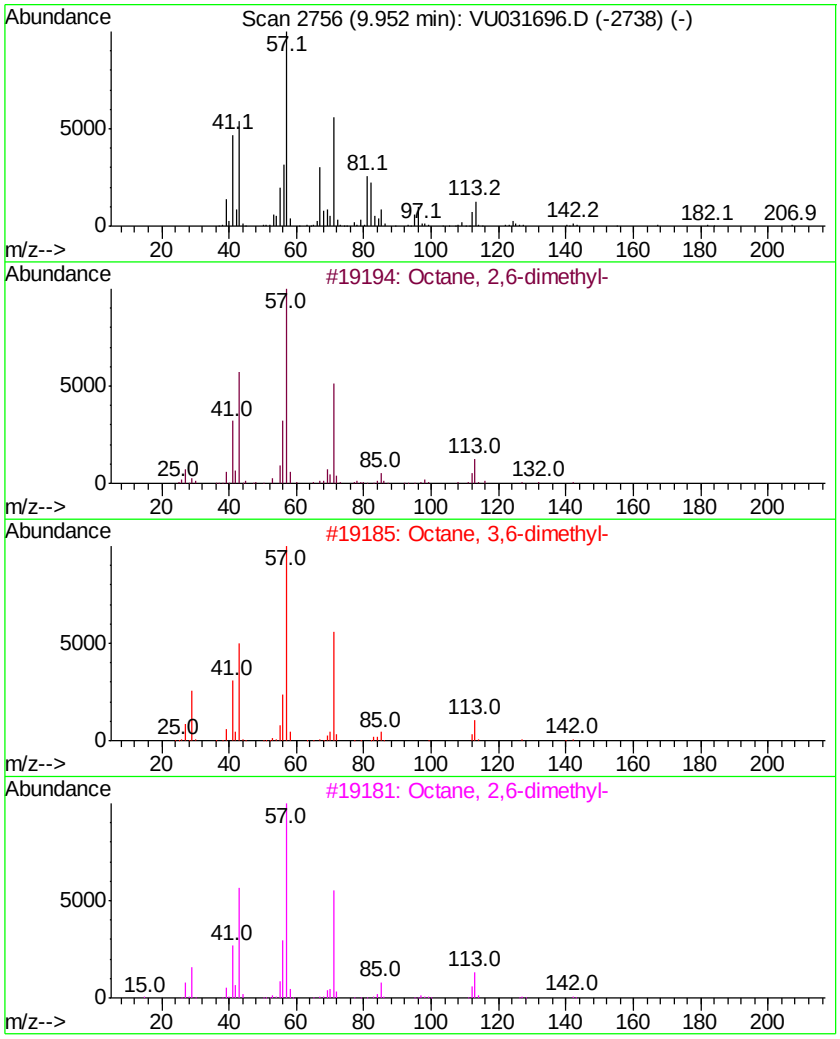
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

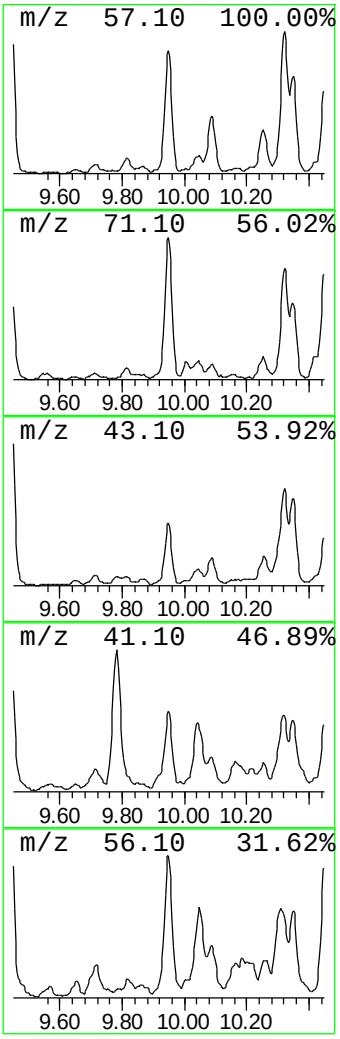
**********

Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 50

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.95 | 9.80 ug/L | 609291 | Chlorobenzene-d5 | 9.09 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 64 |
| 2 | Octane, 3,6-dimethyl- | 142 | C10H22 | 015869-94-0 | 64 |
| 3 | Octane, 2,6-dimethyl- | 142 | C10H22 | 002051-30-1 | 64 |
| 4 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 60 |
| 5 | Nonane, 3-methyl- | 142 | C10H22 | 005911-04-6 | 58 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

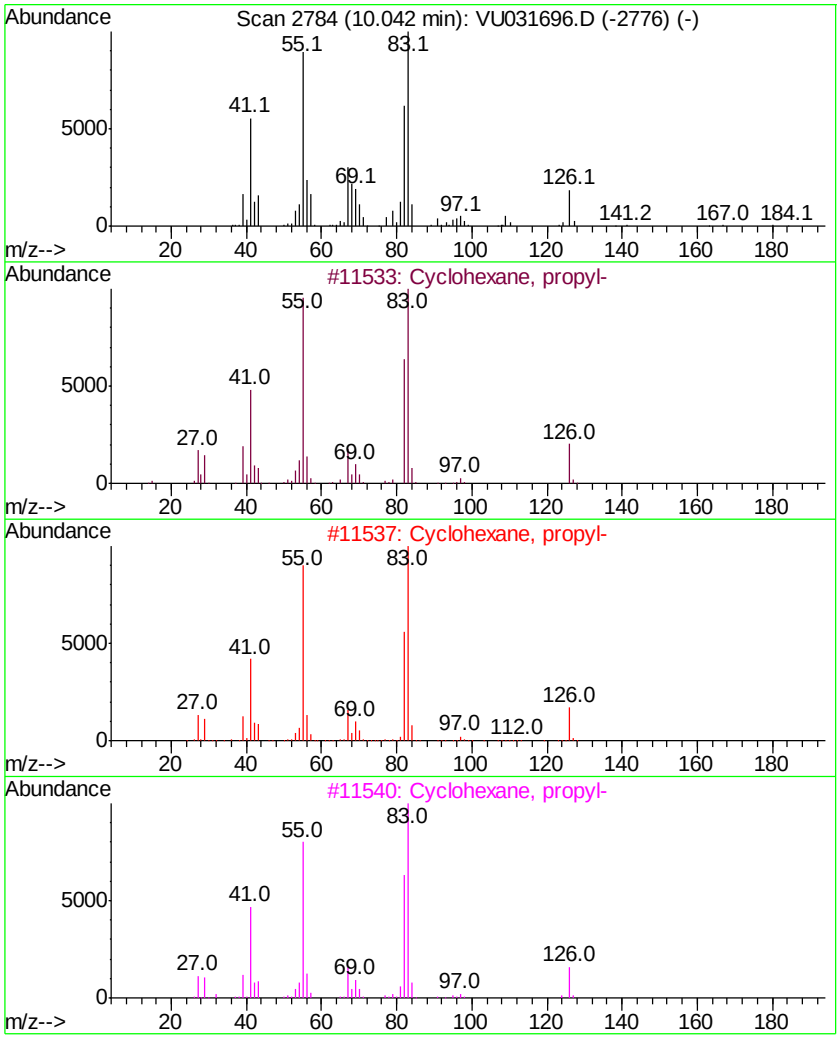
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

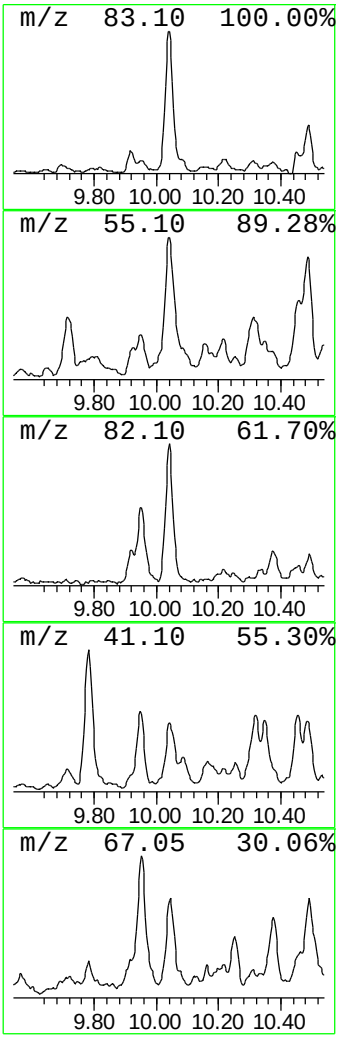
**********

Peak Number 6 (DEL) Alkane: Cyclic10.04 Concentration Rank 56

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.04 | 5.74 ug/L | 356565 | Chlorobenzene-d5 | 9.09 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 74 |
| 2 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 74 |
| 3 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 74 |
| 4 | Cyclohexane, propyl- | 126 | C9H18 | 001678-92-8 | 74 |
| 5 | Cyclohexane, octyl- | 196 | C14H28 | 001795-15-9 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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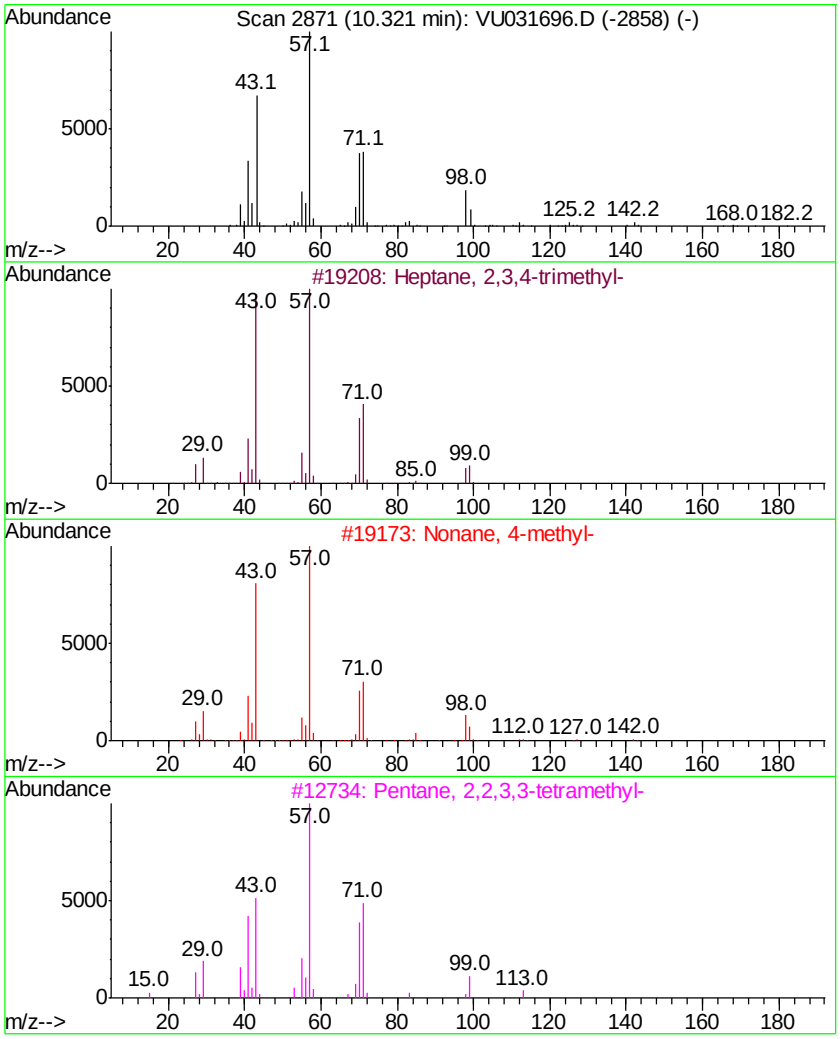
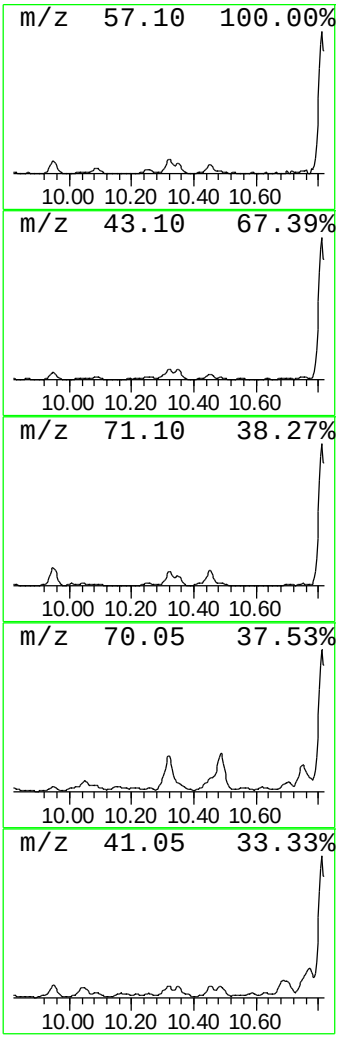
Peak Number 7 (DEL) Alkane: Straight-Chai... Concentration Rank 52

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.32 | 8.52 ug/L | 528868 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,3,4-trimethyl- | 142 | C10H22 | 052896-95-4 | 64 |
| 2 | Nonane, 4-methyl- | 142 | C10H22 | 017301-94-9 | 64 |
| 3 | Pentane, 2,2,3,3-tetramethyl- | 128 | C9H20 | 007154-79-2 | 64 |
| 4 | Nonane, 4-methyl- | 142 | C10H22 | 017301-94-9 | 64 |
| 5 | Octane, 2,3-dimethyl- | 142 | C10H22 | 007146-60-3 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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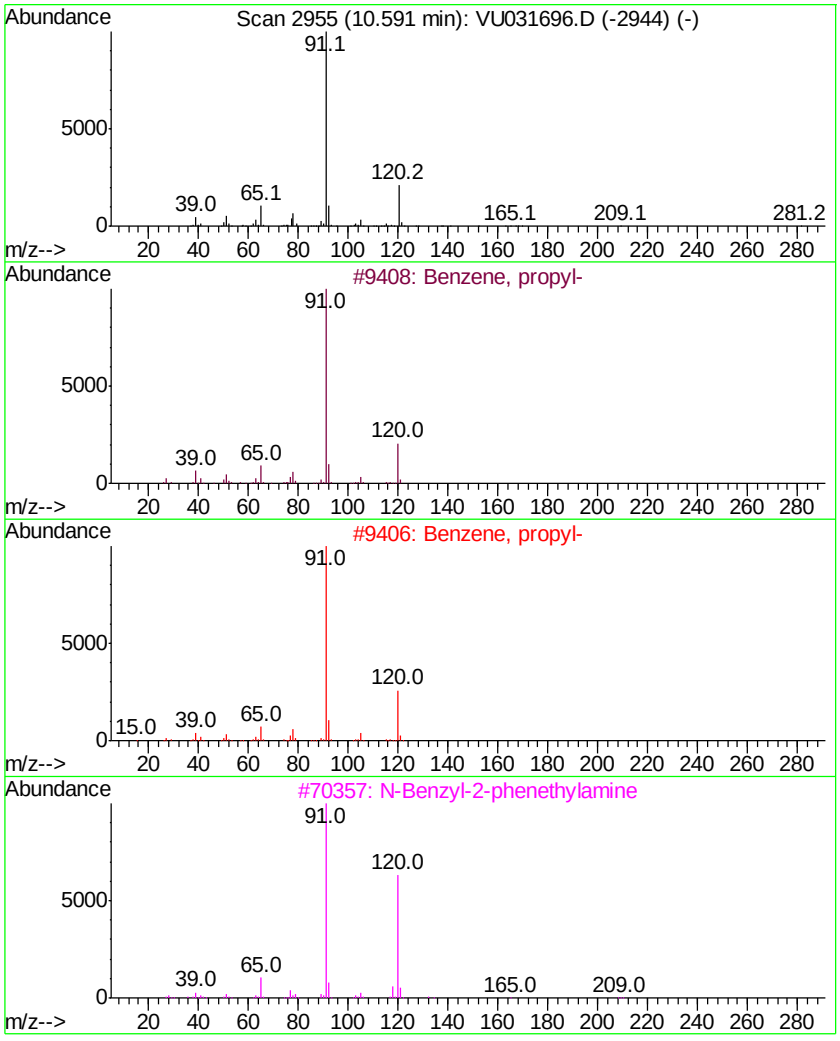
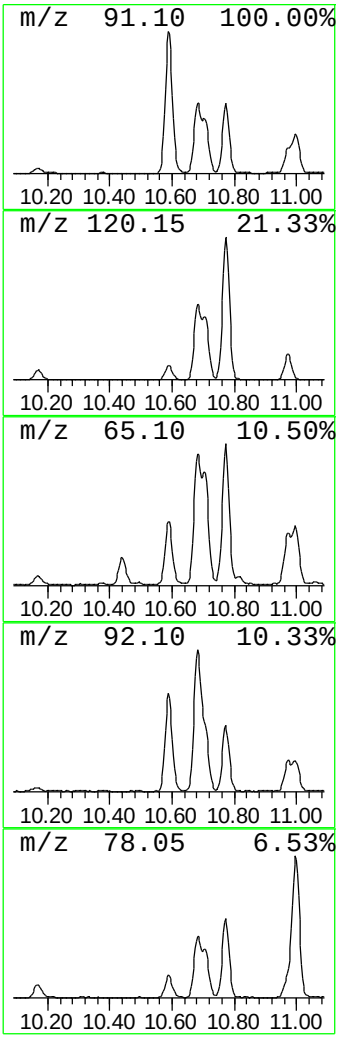
Peak Number 8 Benzene, propyl- Concentration Rank 44

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.59 | 17.11 ug/L | 1061550 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 90 |
| 2 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 86 |
| 3 | N-Benzyl-2-phenethylamine | 211 | C15H17N | 003647-71-0 | 78 |
| 4 | 1,2-Ethanediamine, N,N'-bis(phen... | 240 | C16H20N2 | 000140-28-3 | 72 |
| 5 | Propanenitrile, 3-[(phenylmethyl... | 160 | C10H12N2 | 000706-03-6 | 64 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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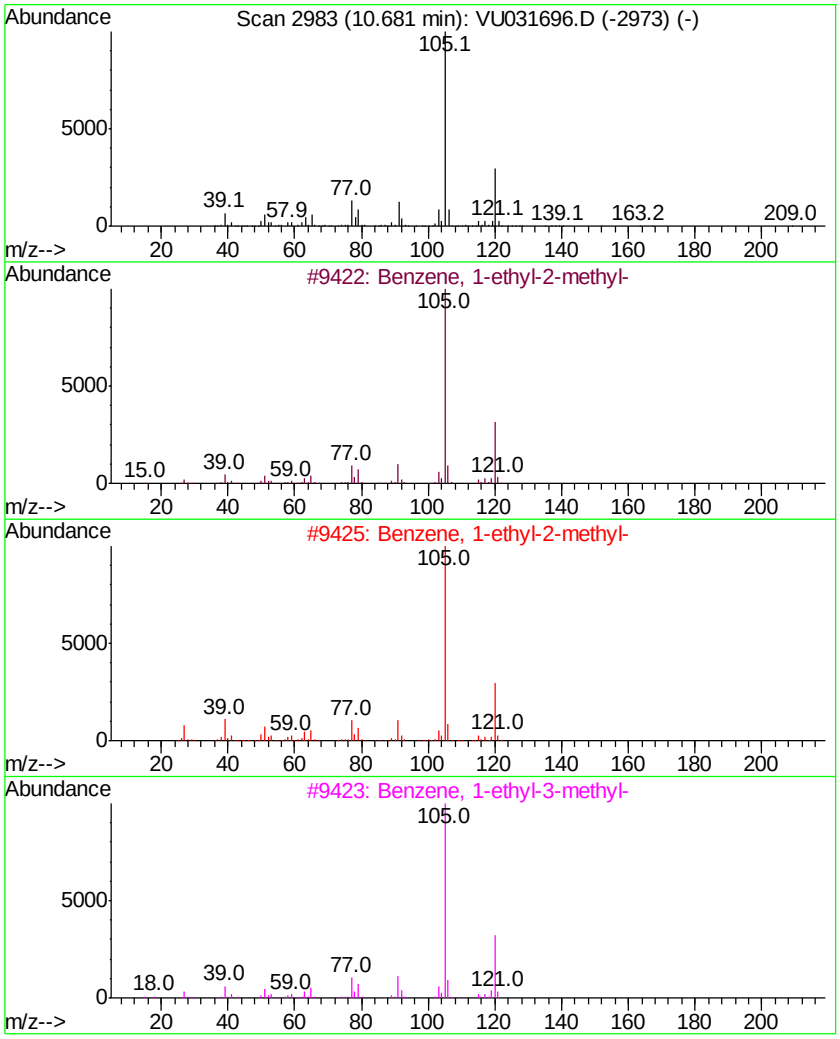
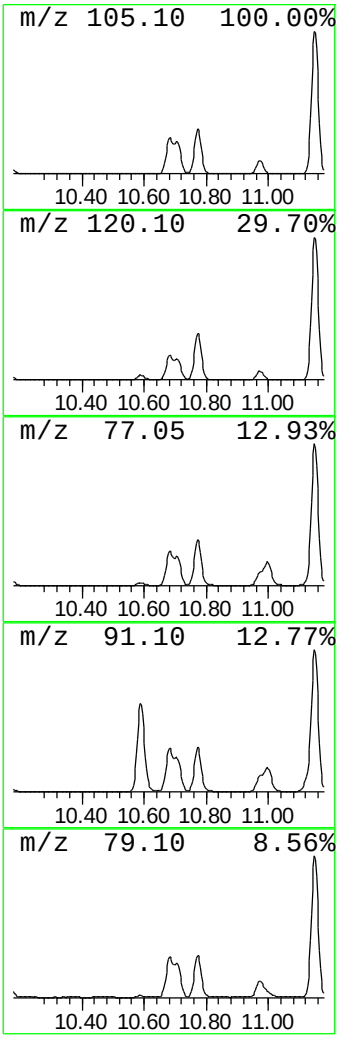
Peak Number 9 Benzene, 1-ethyl-2-methyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.68 | 92.75 ug/L | 5754000 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 95 |
| 3 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 95 |
| 4 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 94 |
| 5 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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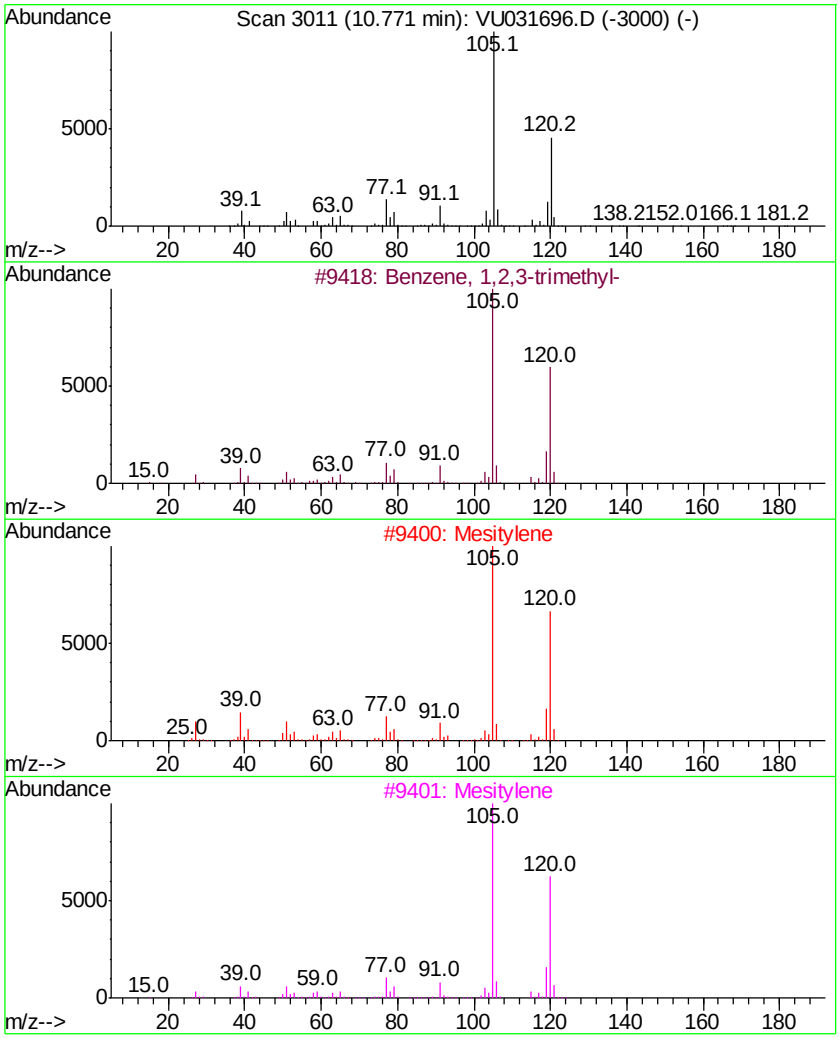
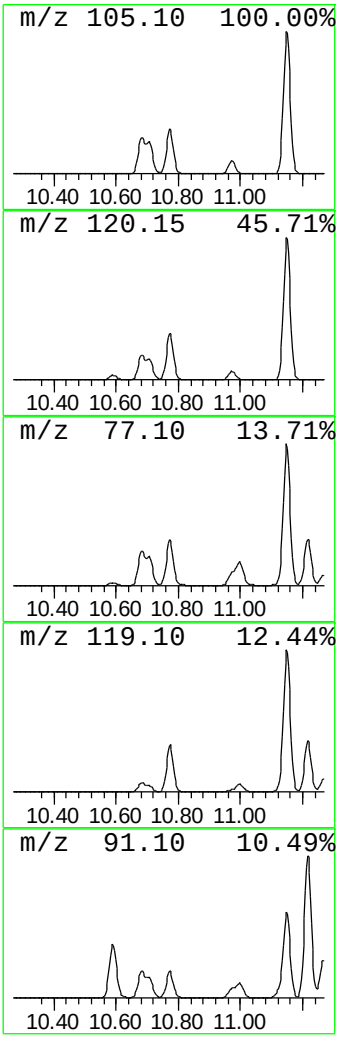
Peak Number 10 Benzene, 1,2,3-trimethyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.77 | 118.85 ug/L | 7373740 | 1,4-Dichlorobenzene-d4 | 11.49 |

| 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 | 95 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 95 |
| 4 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |
| 5 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

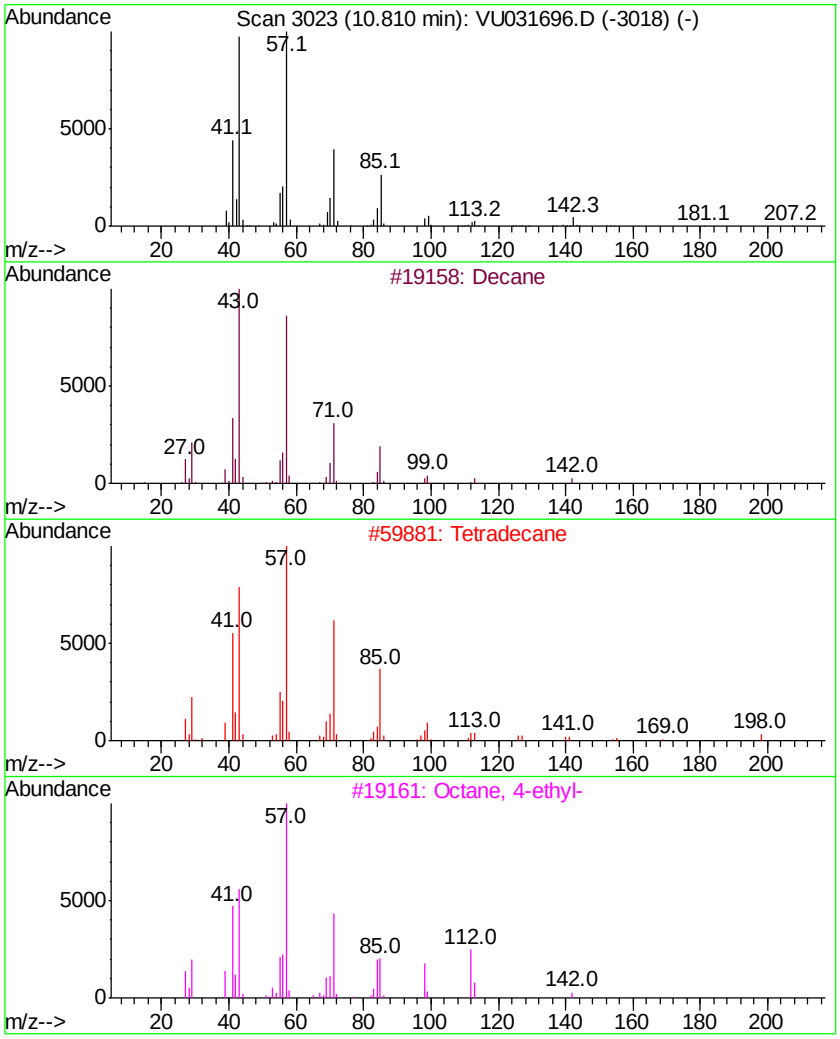
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

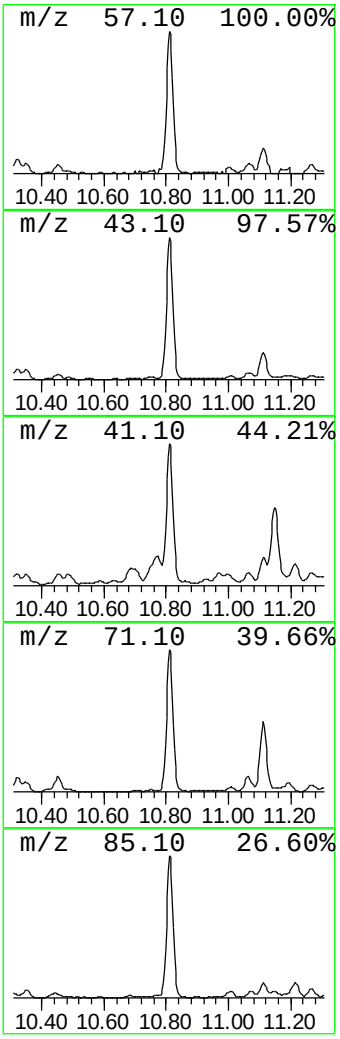
**********

Peak Number 11 (DEL) Alkane: Straight-Chai... Concentration Rank 21

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.81 | 74.34 ug/L | 4611820 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane | 142 | C10H22 | 000124-18-5 | 94 |
| 2 | Tetradecane | 198 | C14H30 | 000629-59-4 | 83 |
| 3 | Octane, 4-ethyl- | 142 | C10H22 | 015869-86-0 | 74 |
| 4 | Decane, 6-ethyl-2-methyl- | 184 | C13H28 | 062108-21-8 | 72 |
| 5 | Hexadecane | 226 | C16H34 | 000544-76-3 | 72 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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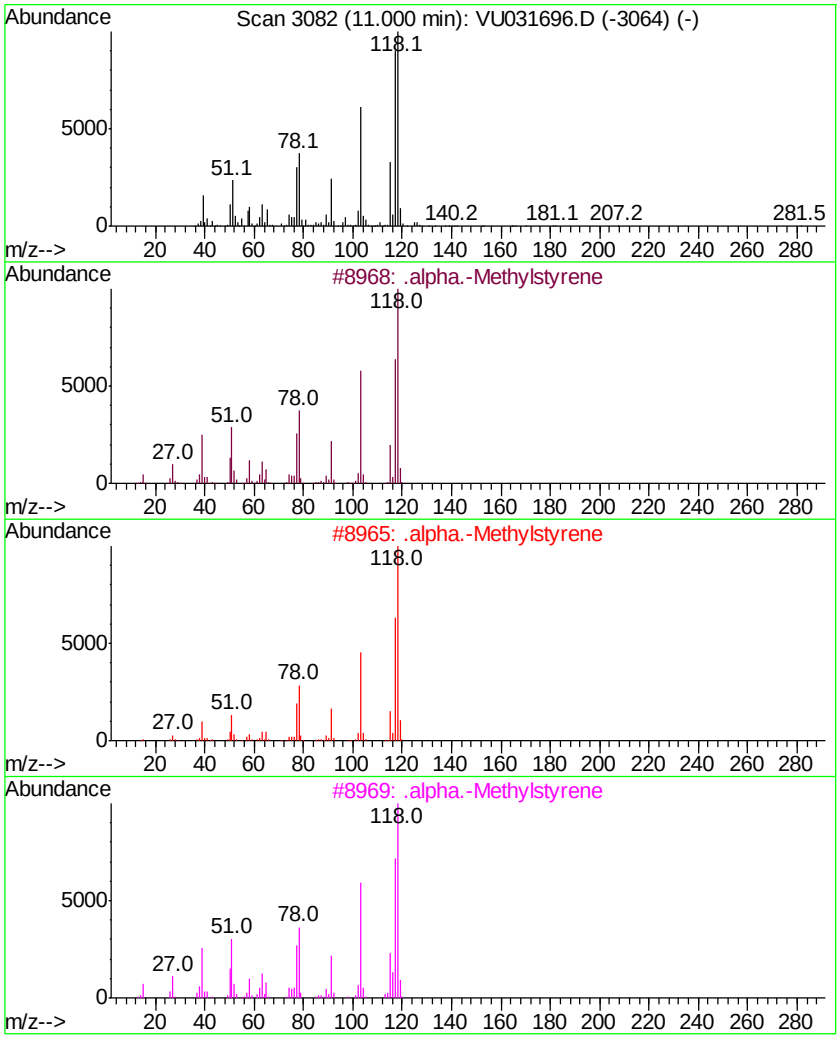
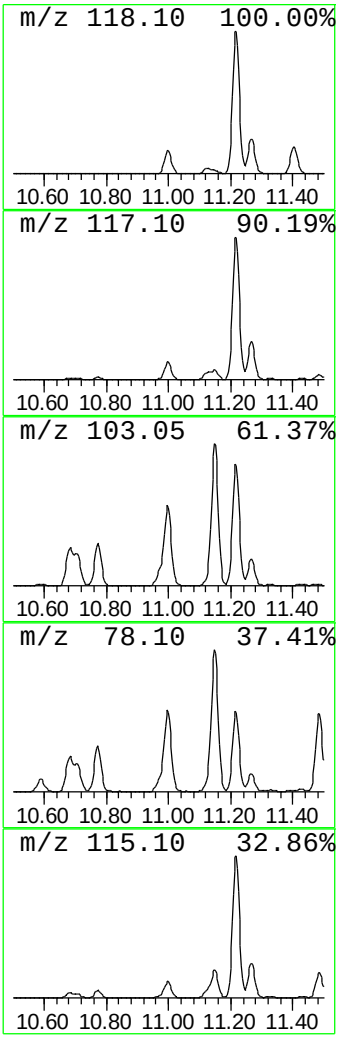
Peak Number 12 .alpha.-Methylstyrene Concentration Rank 19

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.00 | 89.42 ug/L | 5547880 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | .alpha.-Methylstyrene | 118 | C9H10 | 000098-83-9 | 95 |
| 2 | .alpha.-Methylstyrene | 118 | C9H10 | 000098-83-9 | 94 |
| 3 | .alpha.-Methylstyrene | 118 | C9H10 | 000098-83-9 | 91 |
| 4 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 64 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 118 | C9H10 | 022250-74-4 | 62 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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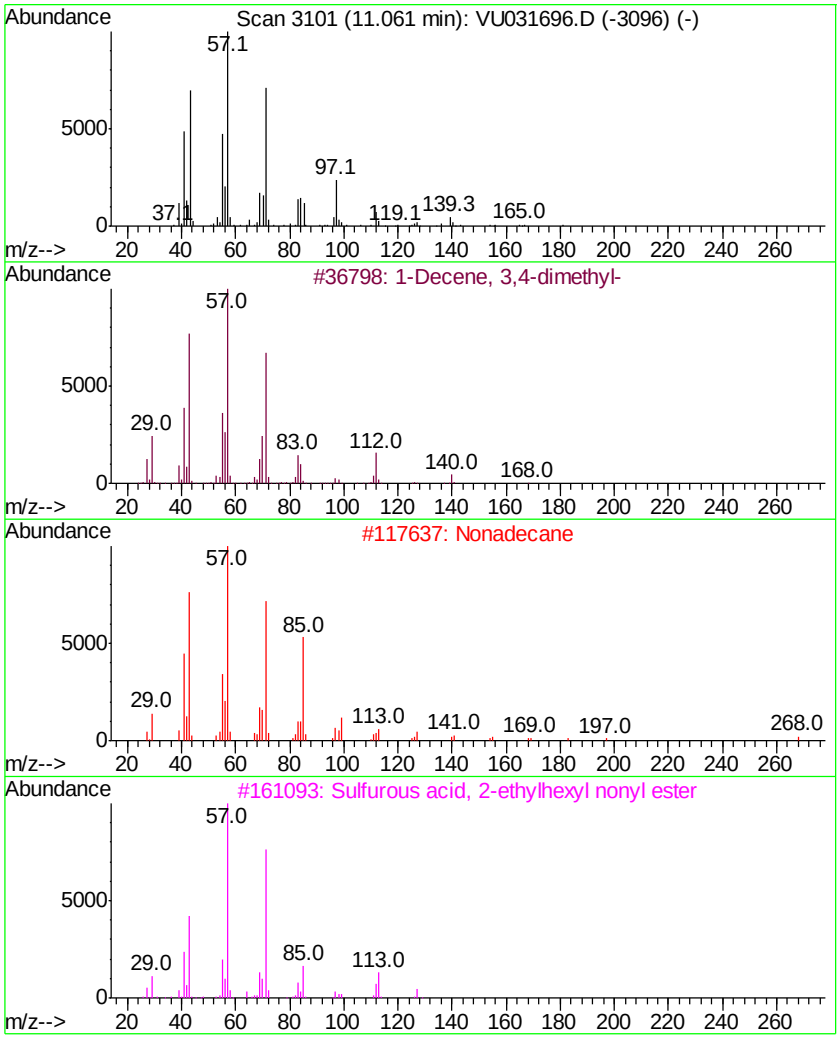
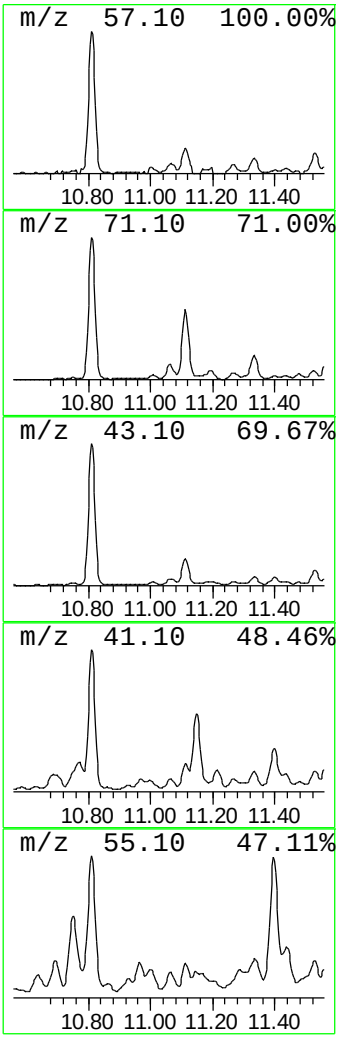
Peak Number 13 (DEL) Alkane: Cyclic11.06 Concentration Rank 59

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.06 | 3.90 ug/L | 242147 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Decene, 3,4-dimethyl- | 168 | C12H24 | 050871-03-9 | 53 |
| 2 | Nonadecane | 268 | C19H40 | 000629-92-5 | 50 |
| 3 | Sulfurous acid, 2-ethylhexyl non... | 320 | C17H36O3S | 1000309-19-2 | 50 |
| 4 | Oxalic acid, 2-ethylhexyl nonyl ... | 328 | C19H36O4 | 1000309-39-2 | 47 |
| 5 | Ether, hexyl pentyl | 172 | C11H24O | 032357-83-8 | 43 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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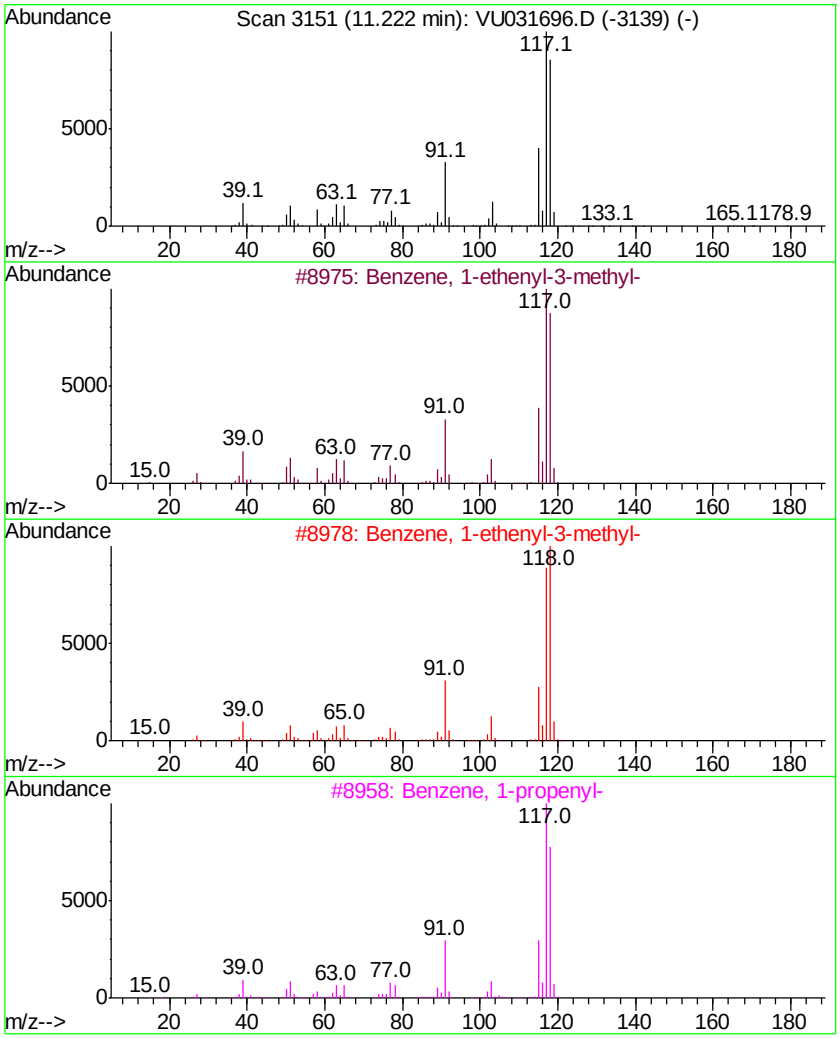
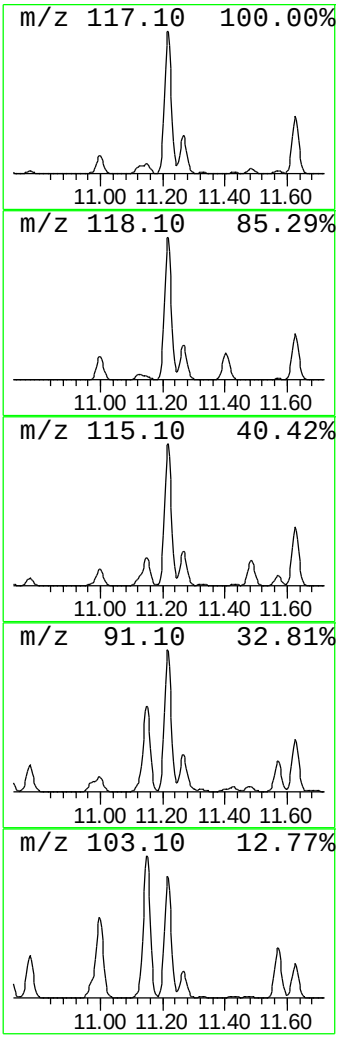
Peak Number 15 Benzene, 1-ethenyl-3-methyl- Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.22 | 275.27 ug/L | 17078100 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10 | 000100-80-1 | 96 |
| 2 | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10 | 000100-80-1 | 96 |
| 3 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 95 |
| 4 | Benzene, 1-ethenyl-3-methyl- | 118 | C9H10 | 000100-80-1 | 94 |
| 5 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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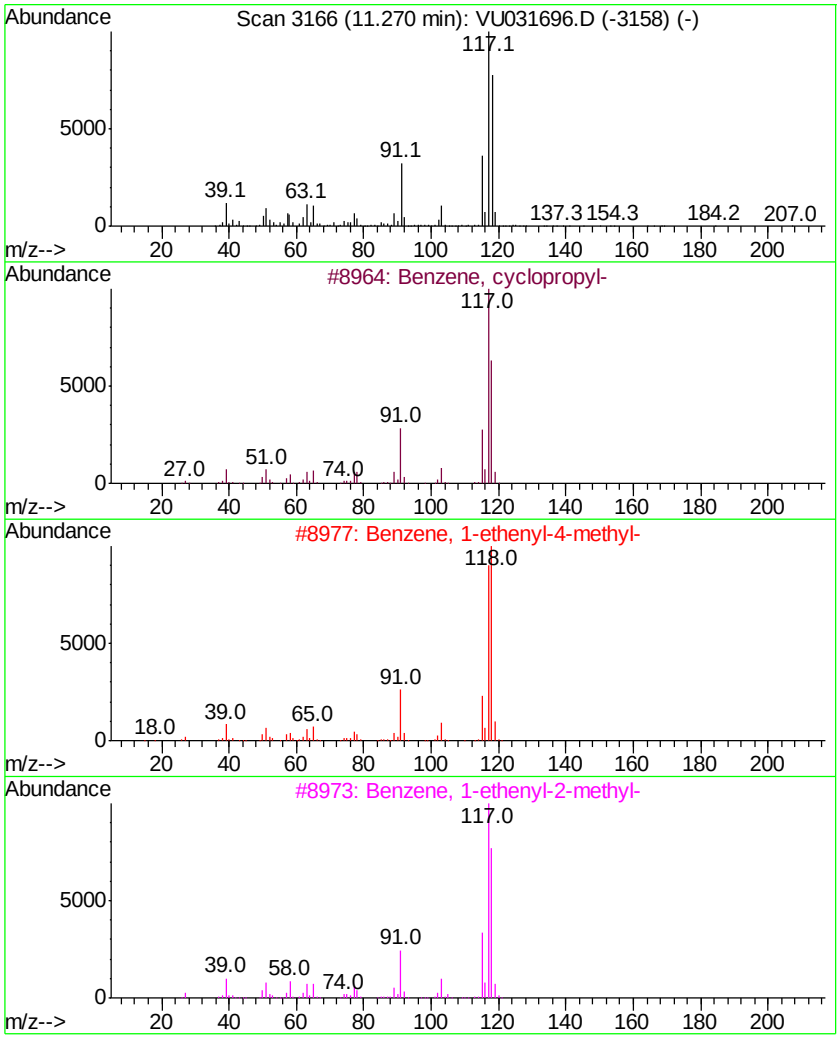
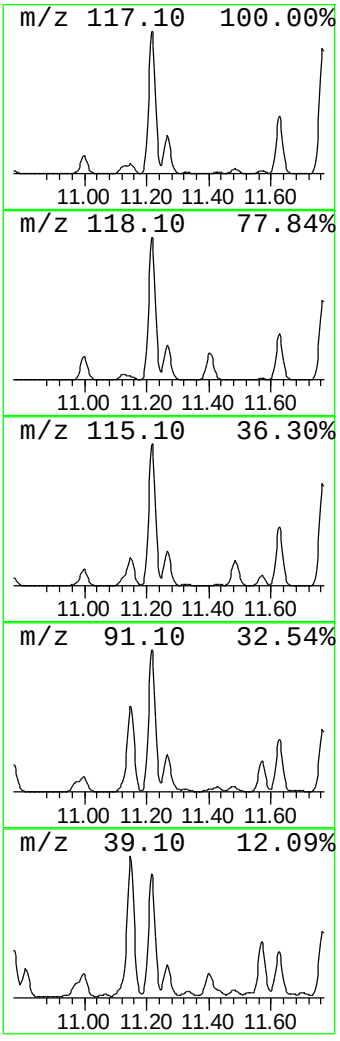
Peak Number 16 Benzene, cyclopropyl- Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.27 | 67.86 ug/L | 4210020 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 94 |
| 2 | Benzene, 1-ethenyl-4-methyl- | 118 | C9H10 | 000622-97-9 | 93 |
| 3 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 93 |
| 4 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 93 |
| 5 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 93 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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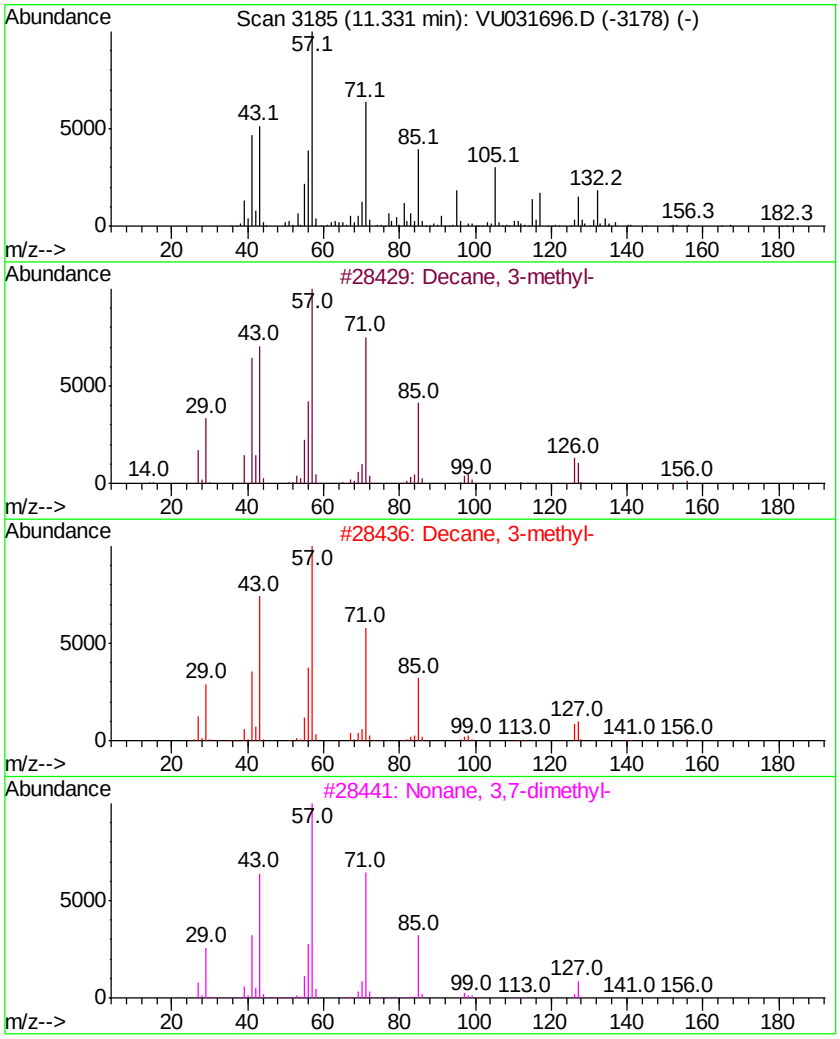
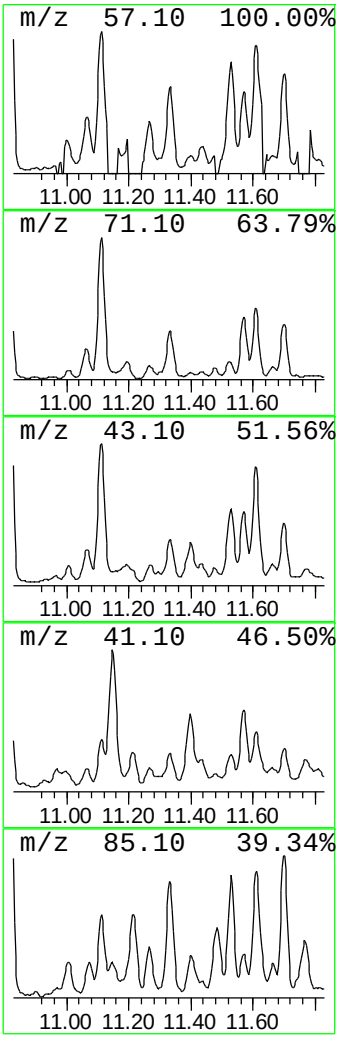
Peak Number 17 (DEL) Alkane: Straight-Chai... Concentration Rank 49

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.33 | 13.70 ug/L | 849699 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 62 |
| 2 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 58 |
| 3 | Nonane, 3,7-dimethyl- | 156 | C11H24 | 017302-32-8 | 47 |
| 4 | Dodecane, 3-methyl- | 184 | C13H28 | 017312-57-1 | 47 |
| 5 | Undecane, 5,7-dimethyl- | 184 | C13H28 | 017312-83-3 | 43 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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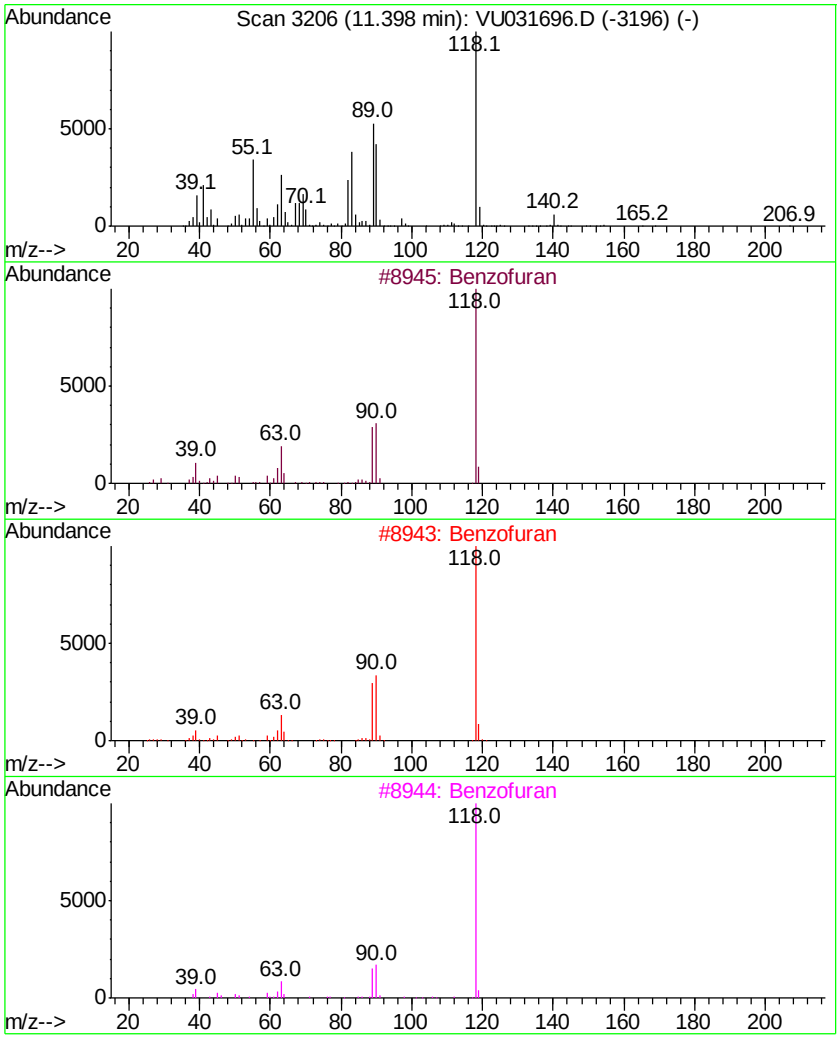
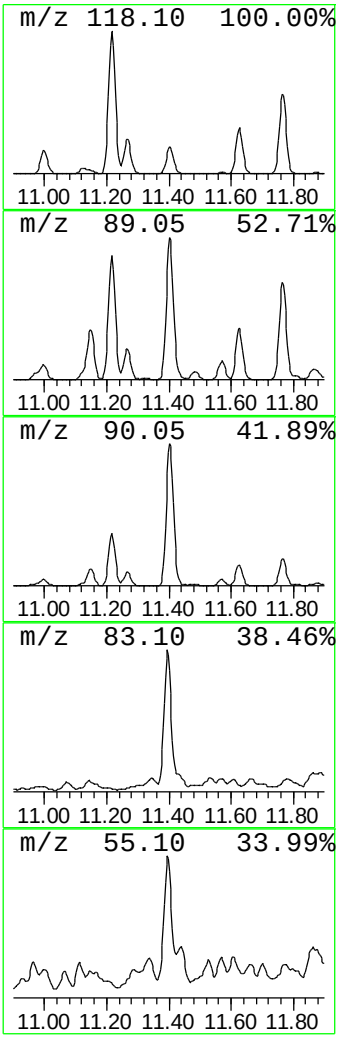
Peak Number 18 Benzofuran Concentration Rank 22

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.40 | 73.21 ug/L | 4541900 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzofuran | 118 | C8H6O | 000271-89-6 | 94 |
| 2 | Benzofuran | 118 | C8H6O | 000271-89-6 | 93 |
| 3 | Benzofuran | 118 | C8H6O | 000271-89-6 | 74 |
| 4 | Coumarin | 146 | C9H6O2 | 000091-64-5 | 72 |
| 5 | 3-Hydroxyphenylacetylene | 118 | C8H6O | 010401-11-3 | 64 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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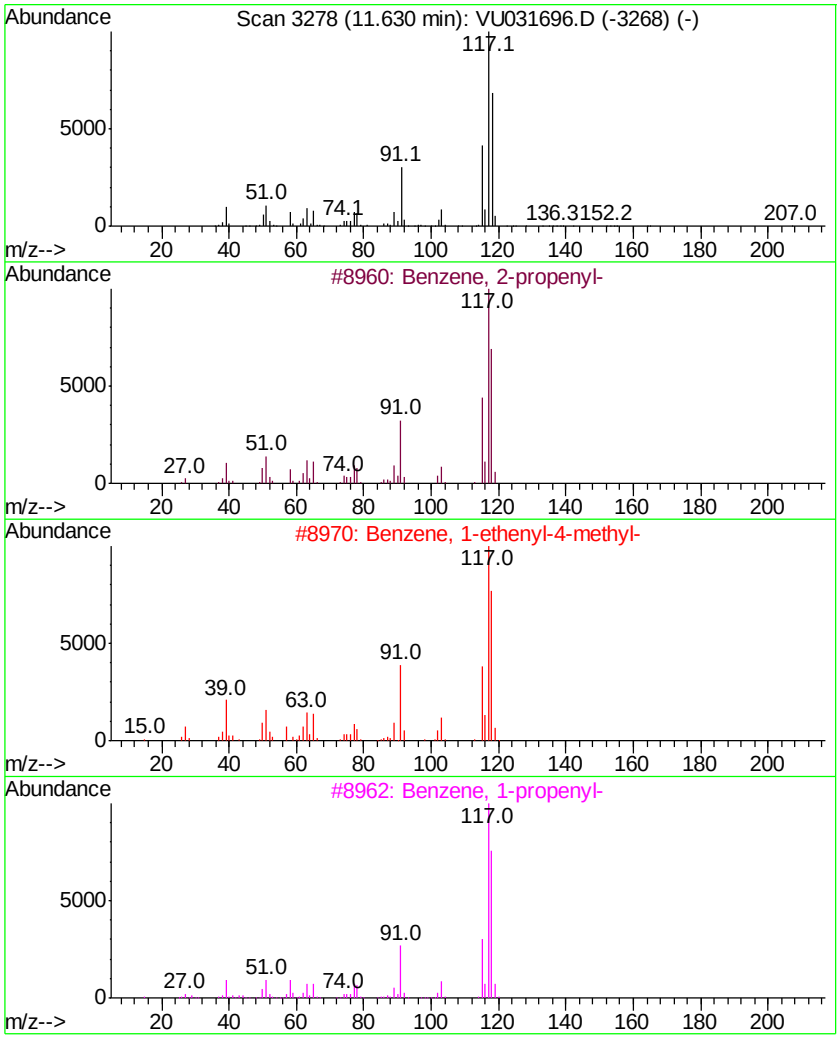
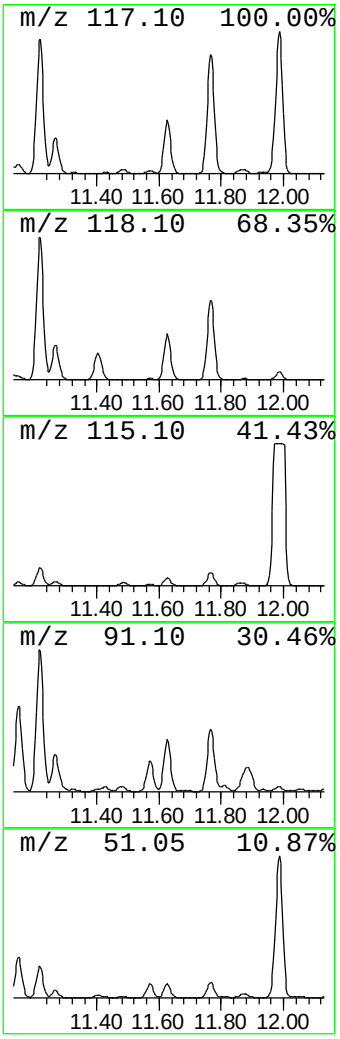
Peak Number 20 Benzene, 2-propenyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.63 | 112.74 ug/L | 6994230 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 95 |
| 2 | Benzene, 1-ethenyl-4-methyl- | 118 | C9H10 | 000622-97-9 | 95 |
| 3 | Benzene, 1-propenyl- | 118 | C9H10 | 000637-50-3 | 95 |
| 4 | (Z)-1-Phenylpropene | 118 | C9H10 | 000766-90-5 | 93 |
| 5 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 93 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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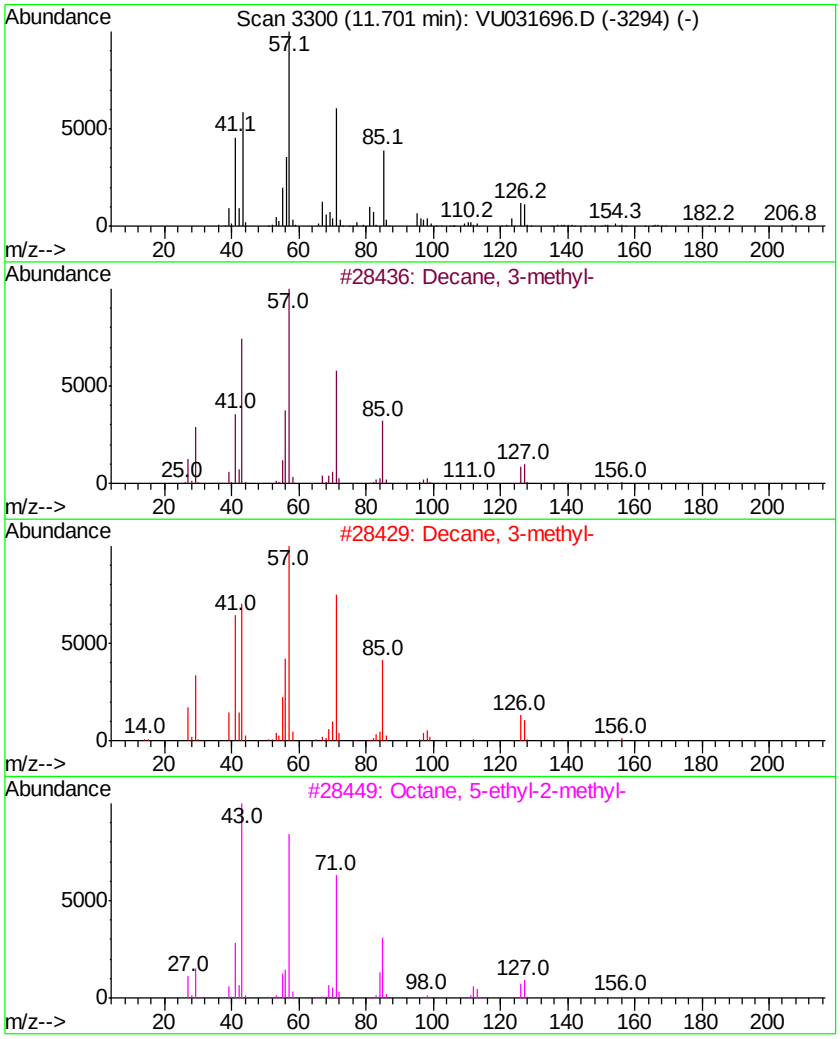
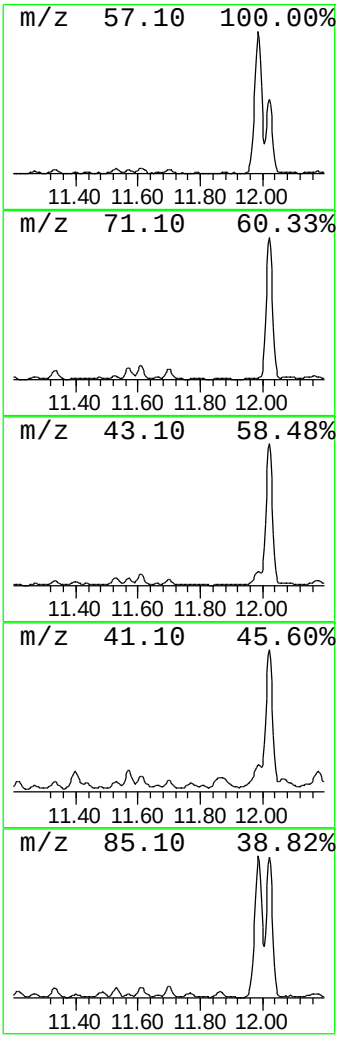
Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 51

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.70 | 9.09 ug/L | 563765 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 90 |
| 2 | Decane, 3-methyl- | 156 | C11H24 | 013151-34-3 | 87 |
| 3 | Octane, 5-ethyl-2-methyl- | 156 | C11H24 | 062016-18-6 | 72 |
| 4 | Nonane, 3,7-dimethyl- | 156 | C11H24 | 017302-32-8 | 64 |
| 5 | Decane, 3,8-dimethyl- | 170 | C12H26 | 017312-55-9 | 59 |



# Library Search Compound Report

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Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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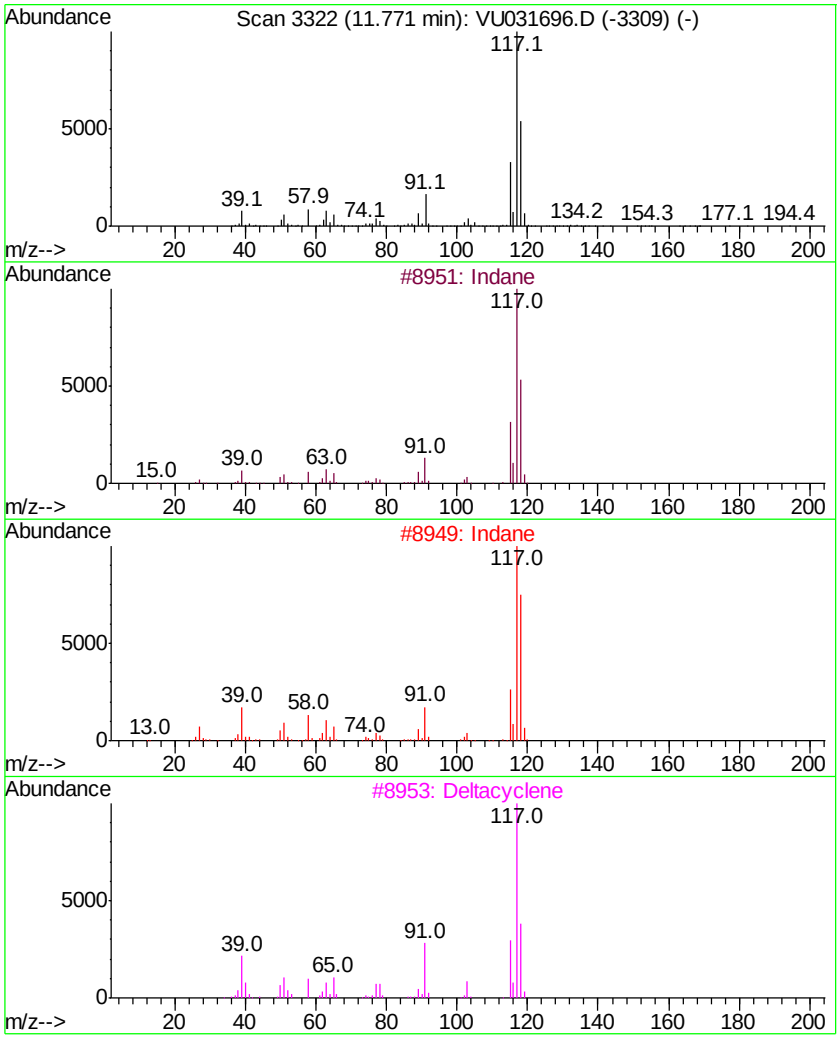
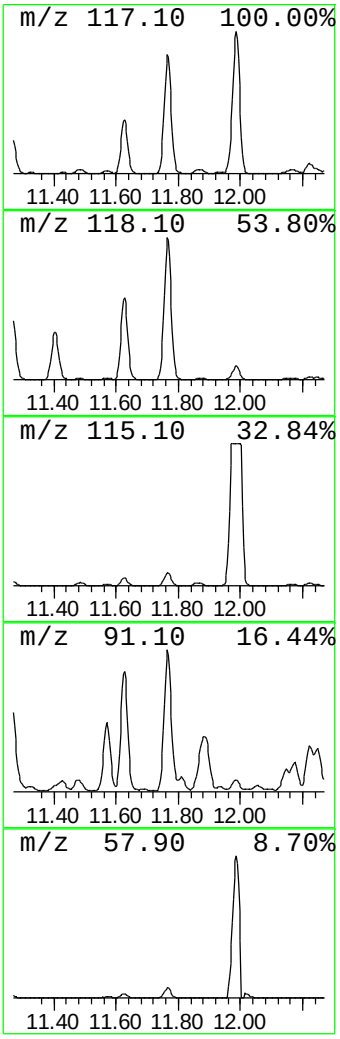
Peak Number 22 Indane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.77 | 193.98 ug/L | 12034800 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 93 |
| 2 | Indane | 118 | C9H10 | 000496-11-7 | 91 |
| 3 | Deltacyclene | 118 | C9H10 | 007785-10-6 | 74 |
| 4 | Benzene, 1-ethenyl-2-methyl- | 118 | C9H10 | 000611-15-4 | 74 |
| 5 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 74 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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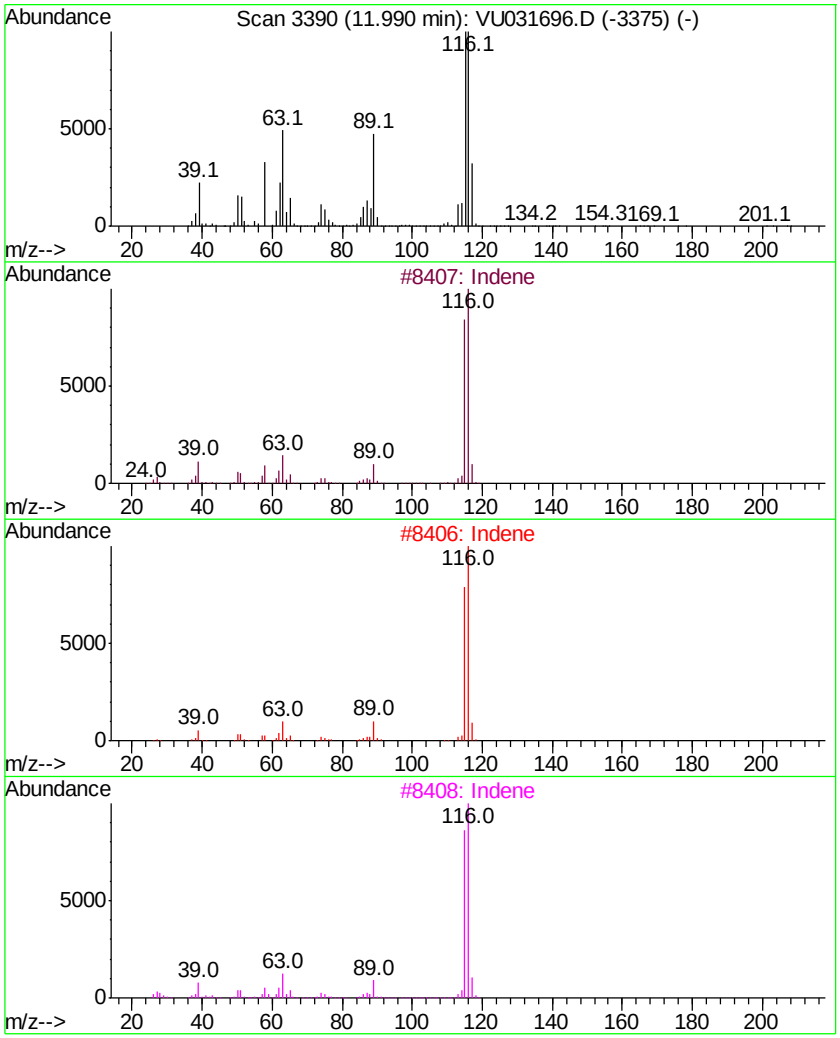
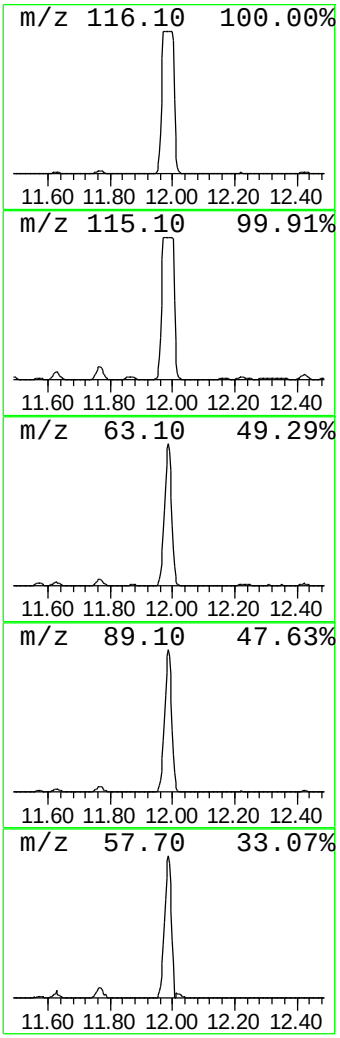
Peak Number 23 Indene Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.99 | 2084.17 ug/L | 129303000 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indene | 116 | C9H8 | 000095-13-6 | 97 |
| 2 | Indene | 116 | C9H8 | 000095-13-6 | 96 |
| 3 | Indene | 116 | C9H8 | 000095-13-6 | 96 |
| 4 | 3-Methylphenylacetylene | 116 | C9H8 | 000766-82-5 | 87 |
| 5 | Benzene, 1,2-propadienyl- | 116 | C9H8 | 002327-99-3 | 81 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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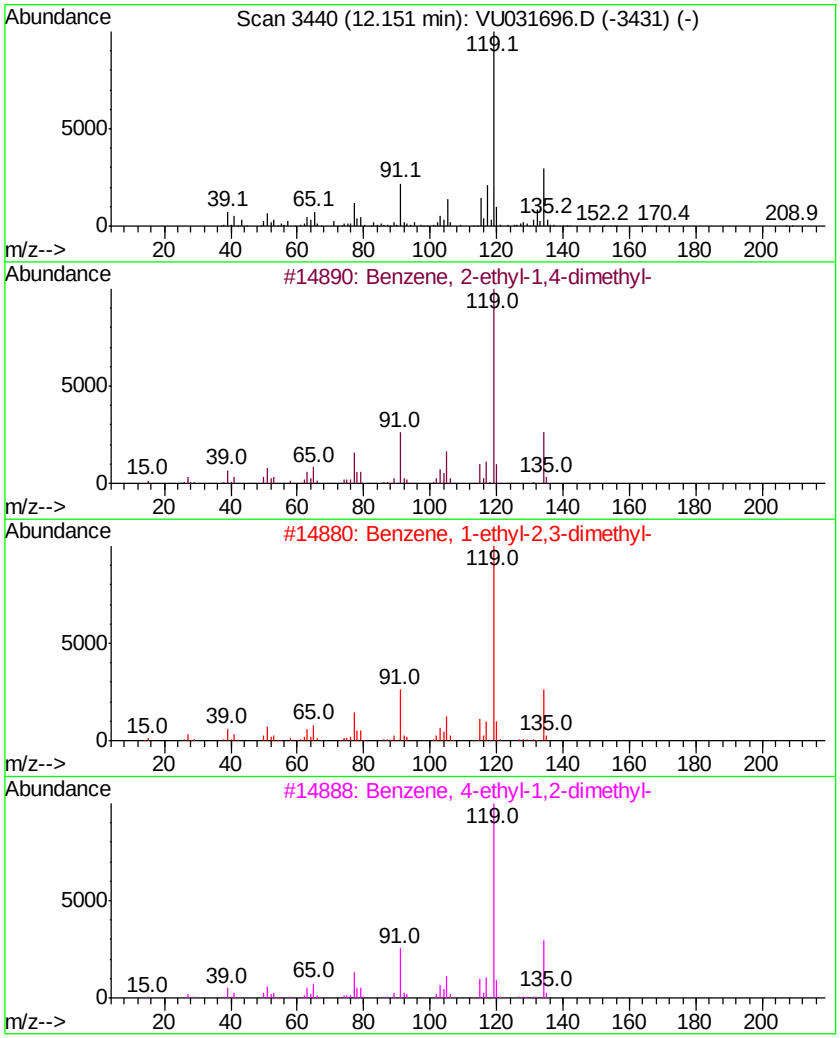
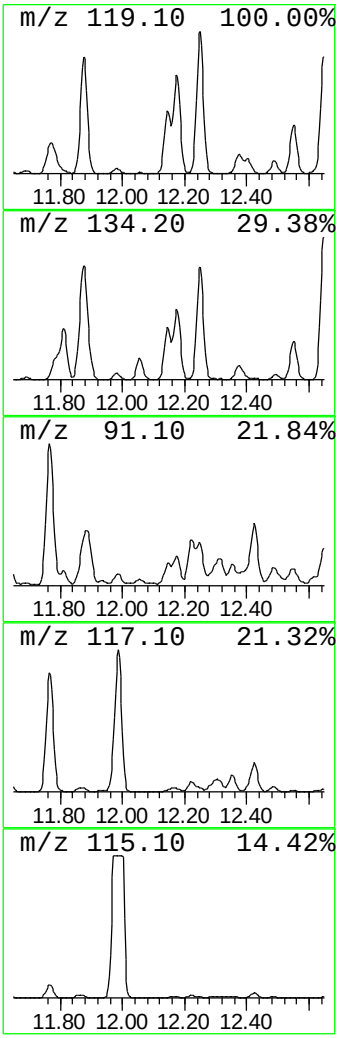
Peak Number 24 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.15 | 17.03 ug/L | 1056620 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 96 |
| 2 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 96 |
| 3 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 96 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 93 |
| 5 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 93 |



# Library Search Compound Report

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Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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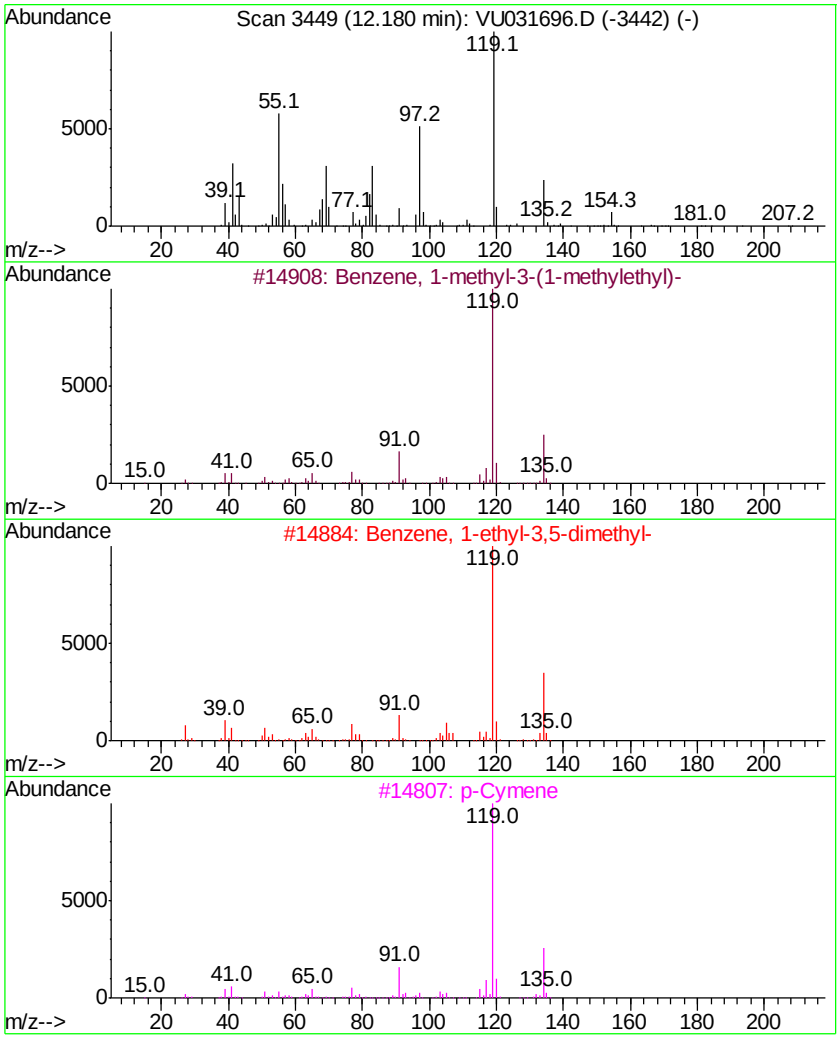
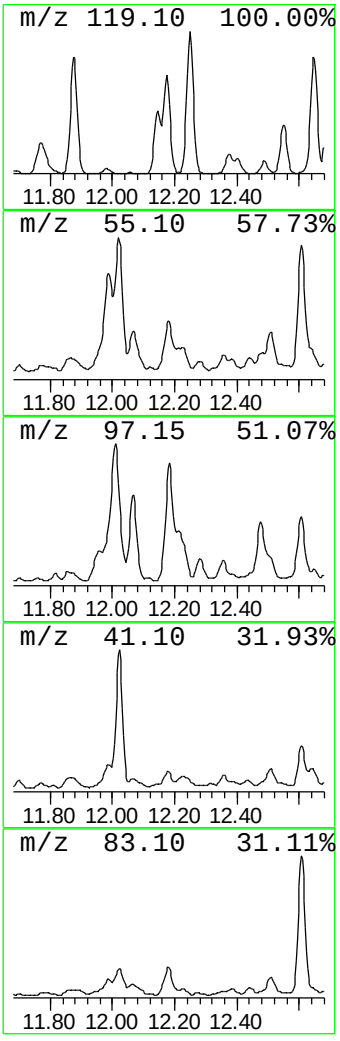
Peak Number 25 Benzene, 1-methyl-3-(1-meth... Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.18 | 32.02 ug/L | 1986660 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 62 |
| 2 | Benzene, 1-ethyl-3,5-dimethyl- | 134 | C10H14 | 000934-74-7 | 58 |
| 3 | p-Cymene | 134 | C10H14 | 000099-87-6 | 58 |
| 4 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 58 |
| 5 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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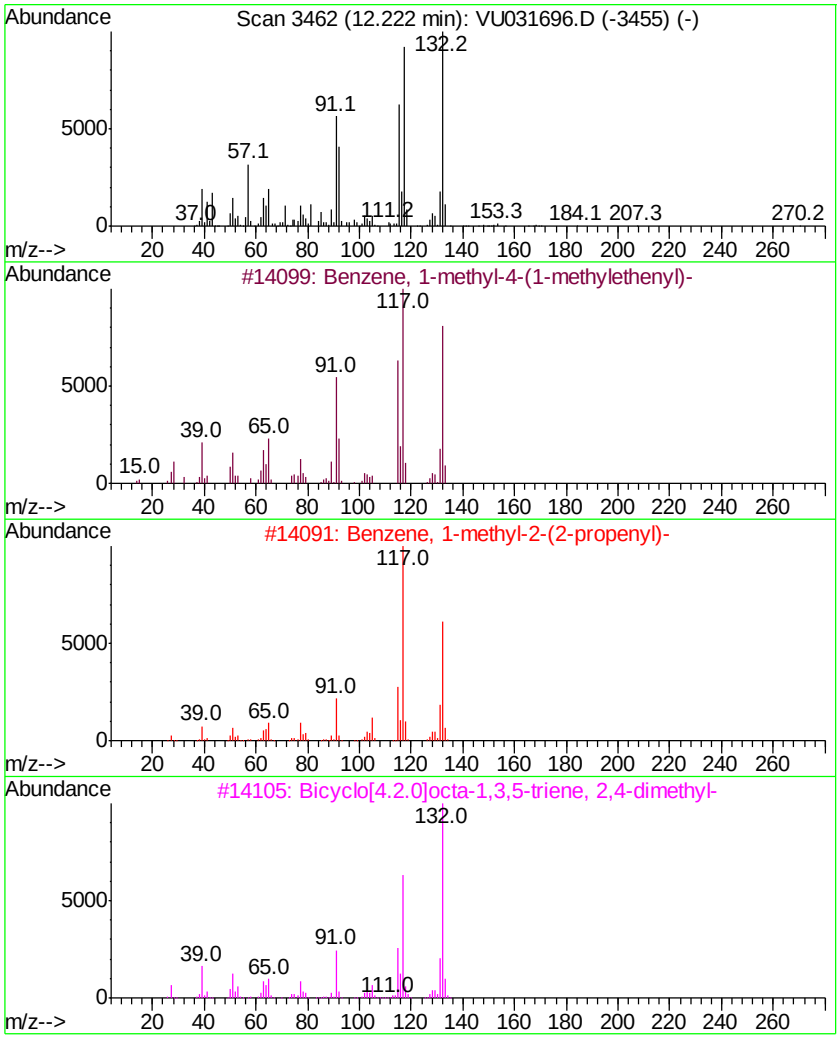
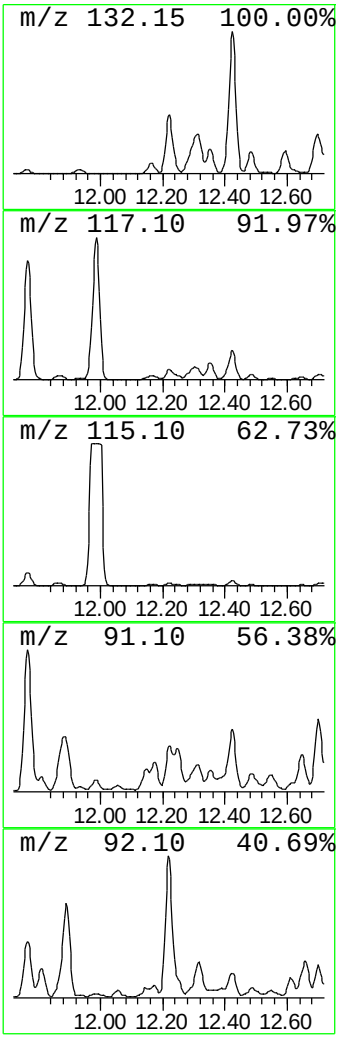
Peak Number 26 Benzene, 1-methyl-4-(1-meth... Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.22 | 33.00 ug/L | 2047300 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-(1-methyleth... | 132 | C10H12 | 001195-32-0 | 95 |
| 2 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 89 |
| 3 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 81 |
| 4 | Benzene, 1-methyl-4-(1-methyleth... | 132 | C10H12 | 001195-32-0 | 81 |
| 5 | Benzene, 1-methyl-4-(1-methyleth... | 132 | C10H12 | 001195-32-0 | 74 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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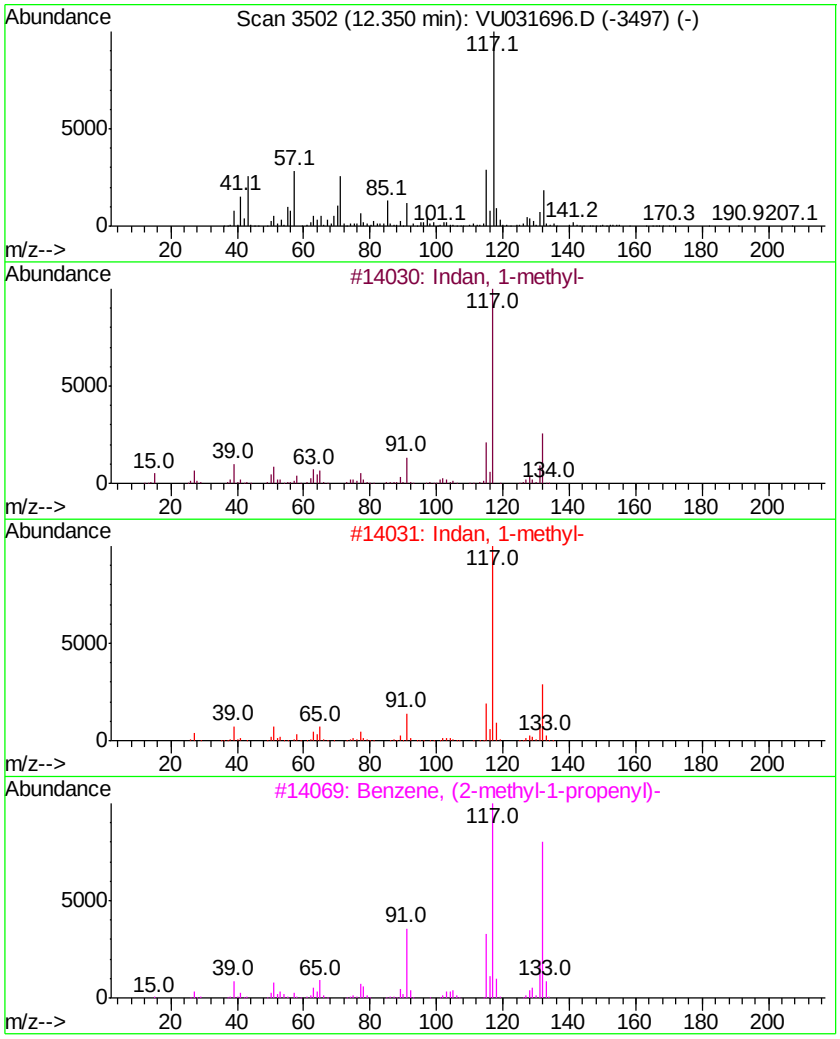
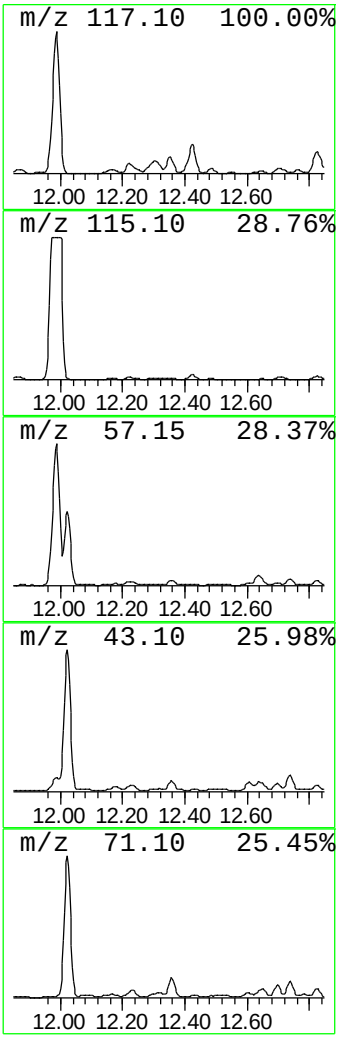
Peak Number 27 Indan, 1-methyl- Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.35 | 29.43 ug/L | 1825840 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 90 |
| 2 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 70 |
| 3 | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12 | 000768-49-0 | 64 |
| 4 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 62 |
| 5 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 62 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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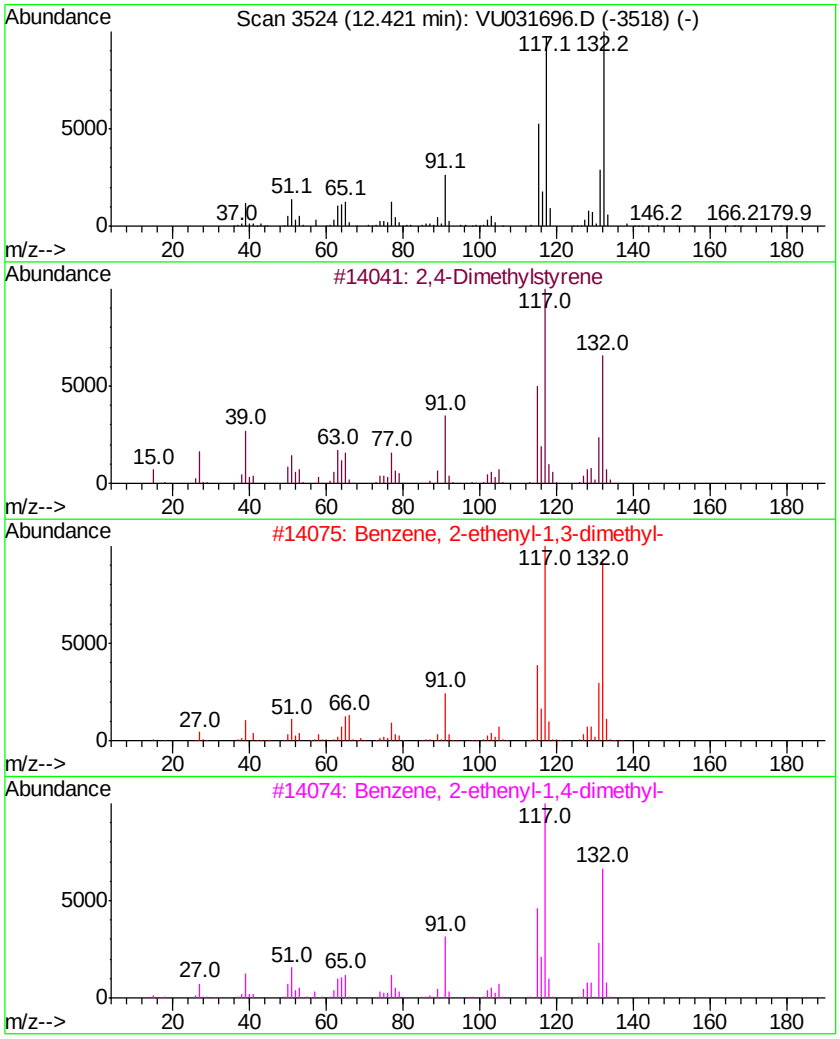
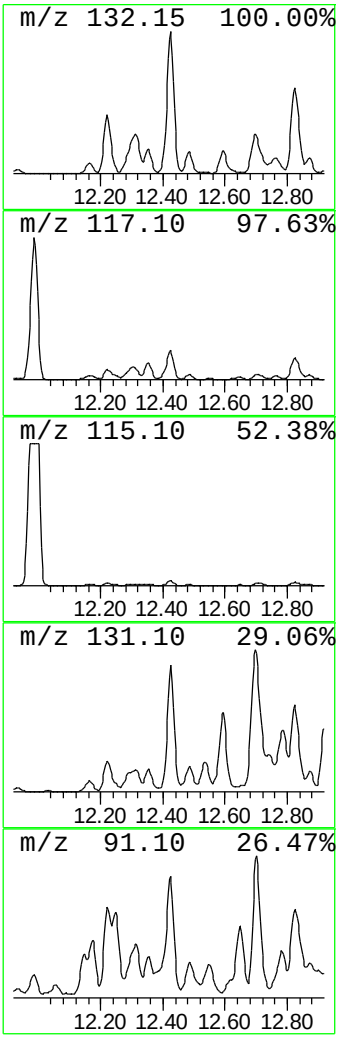
Peak Number 28 2,4-Dimethylstyrene Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.42 | 76.51 ug/L | 4746730 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,4-Dimethylstyrene | 132 | C10H12 | 002234-20-0 | 94 |
| 2 | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12 | 002039-90-9 | 94 |
| 3 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 94 |
| 4 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 93 |
| 5 | Benzene, 4-ethenyl-1,2-dimethyl- | 132 | C10H12 | 027831-13-6 | 93 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

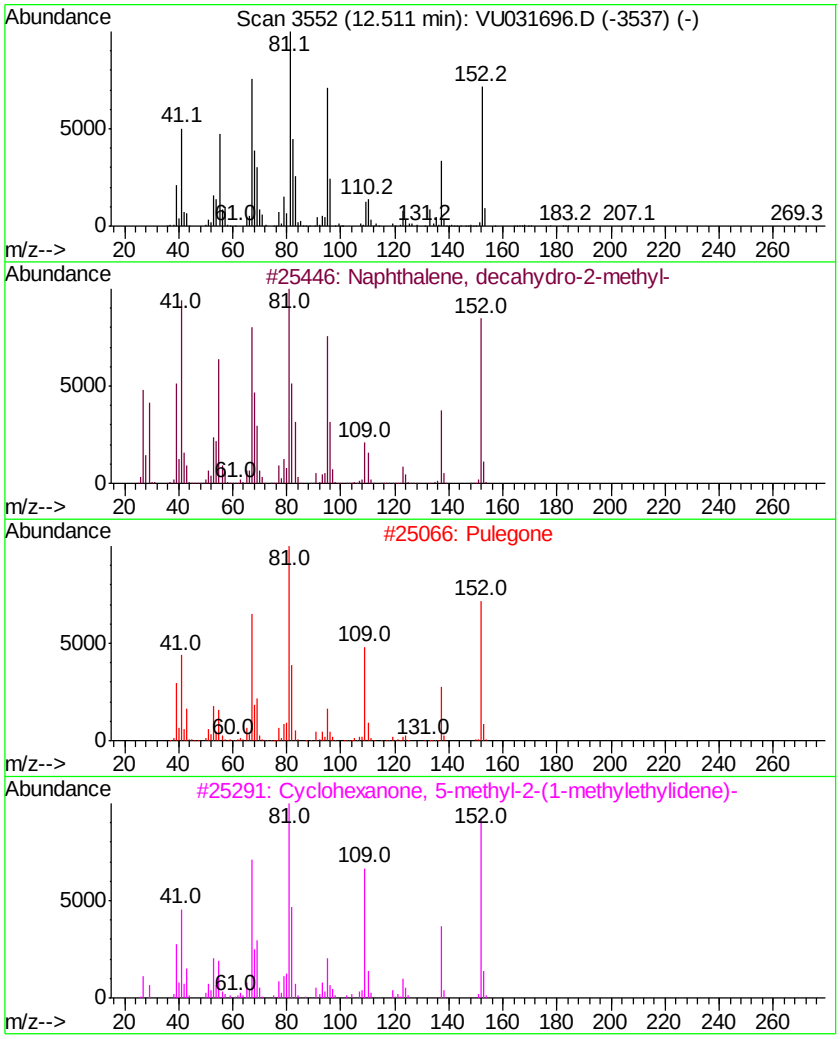
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

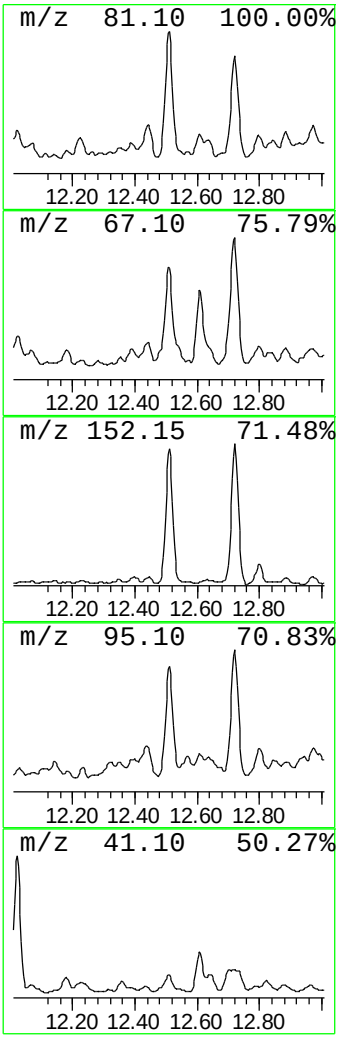
**********

Peak Number 29 Naphthalene, decahydro-2-me... Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.51 | 50.74 ug/L | 3147670 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, decahydro-2-methyl- | 152 | C11H20 | 002958-76-1 | 91 |
| 2 | Pulegone | 152 | C10H16O | 000089-82-7 | 76 |
| 3 | Cyclohexanone, 5-methyl-2-(1-met... | 152 | C10H16O | 015932-80-6 | 68 |
| 4 | Bicyclo[4.1.0]heptan-3-one, 4,7,... | 152 | C10H16O | 004176-04-9 | 68 |
| 5 | Cyclohexanone, 5-methyl-2-(1-met... | 152 | C10H16O | 015932-80-6 | 68 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

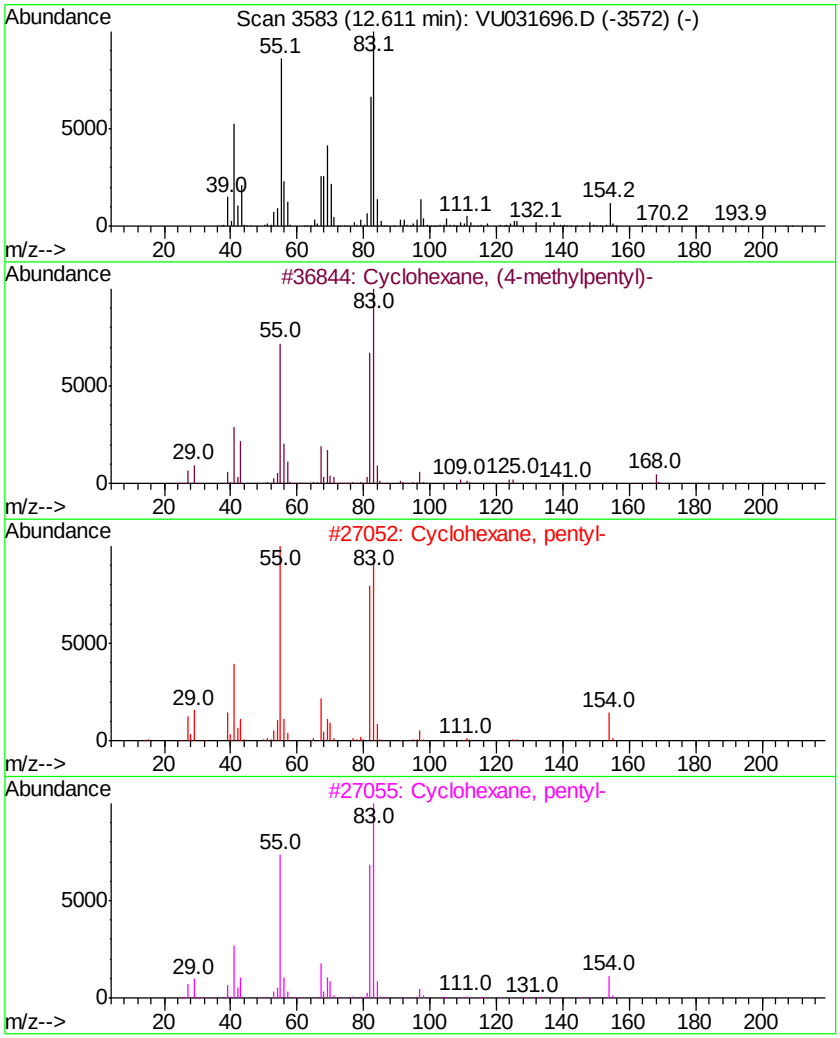
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

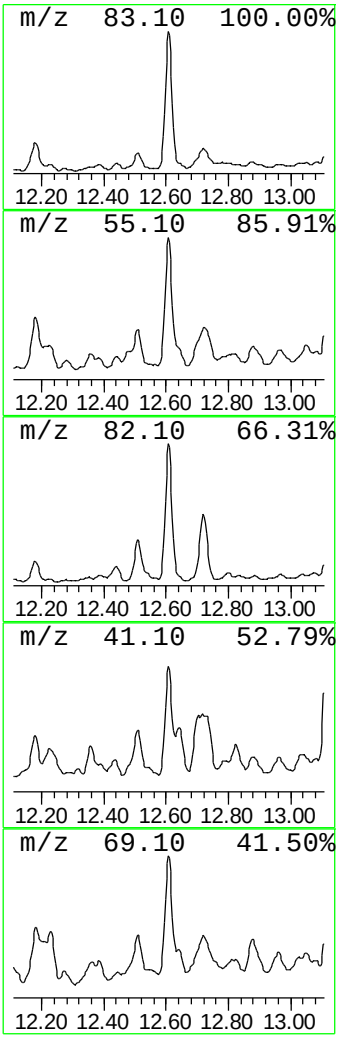
**********

Peak Number 30 (DEL) Alkane: Cyclic12.61 Concentration Rank 24

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.61 | 62.77 ug/L | 3894080 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, (4-methylpentyl)- | 168 | C12H24 | 061142-20-9 | 76 |
| 2 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 74 |
| 3 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 64 |
| 4 | Cyclohexane, pentyl- | 154 | C11H22 | 004292-92-6 | 58 |
| 5 | Cyclohexane, (1-methylbutyl)- | 154 | C11H22 | 061208-94-4 | 49 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

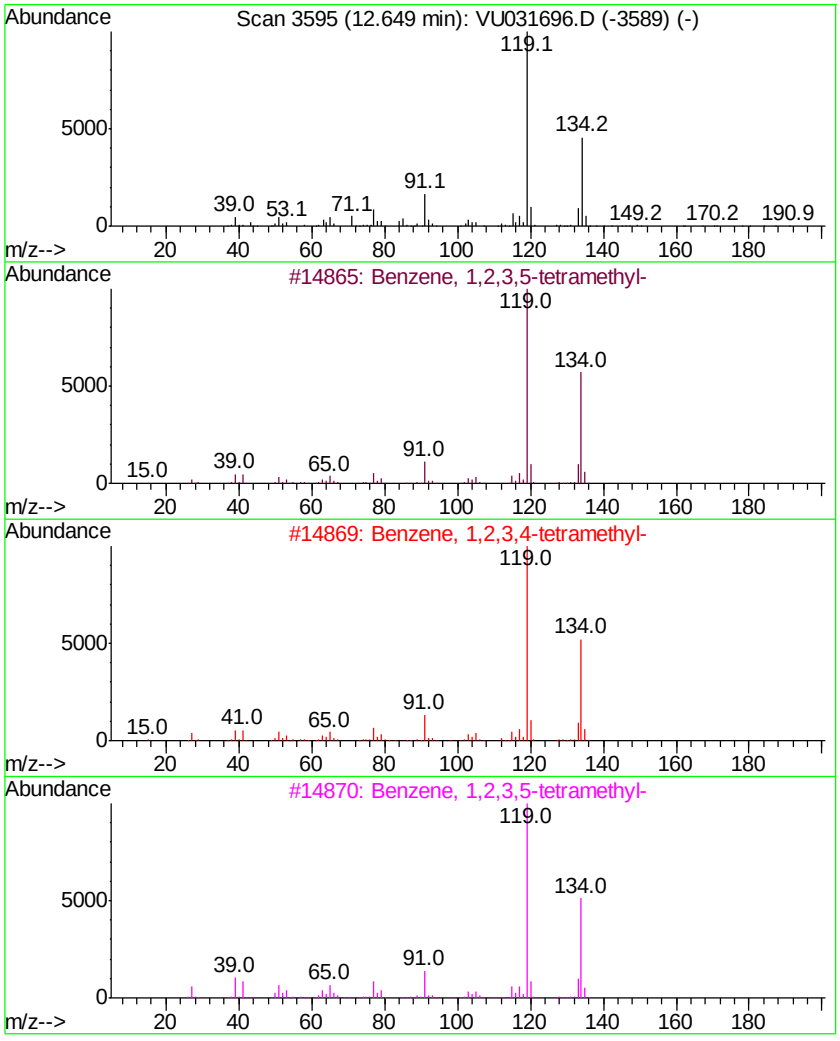
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

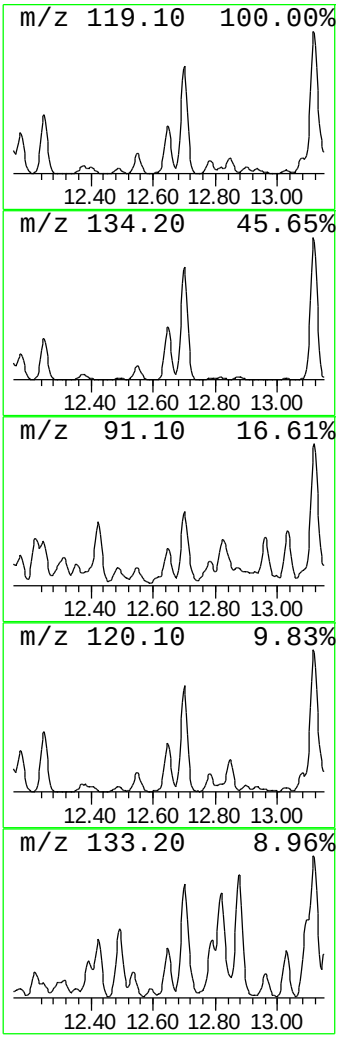
**********

Peak Number 31 Benzene, 1,2,3,5-tetramethyl- Concentration Rank 31

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.65 | 44.69 ug/L | 2772330 | 1,4-Dichlorobenzene-d4 | 11.49 |

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

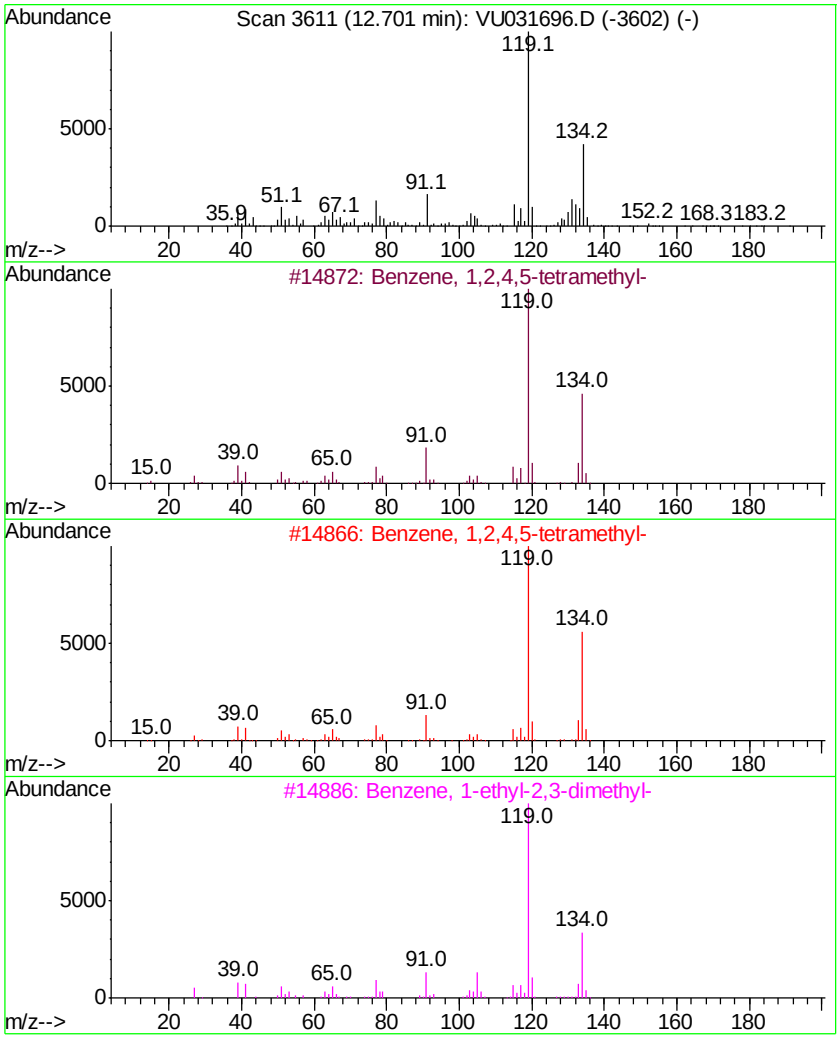
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

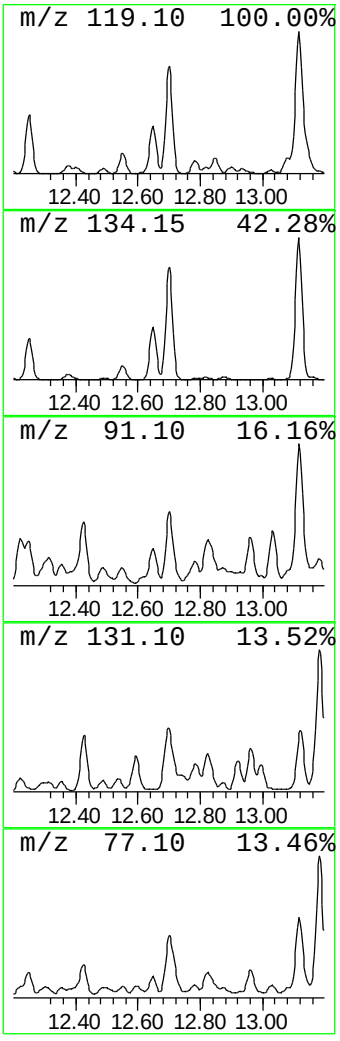
**********

Peak Number 32 Benzene, 1,2,4,5-tetramethyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.70 | 178.48 ug/L | 11073200 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 93 |
| 2 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 93 |
| 3 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 90 |
| 4 | Benzene, 1-ethyl-2,4-dimethyl- | 134 | C10H14 | 000874-41-9 | 89 |
| 5 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 81 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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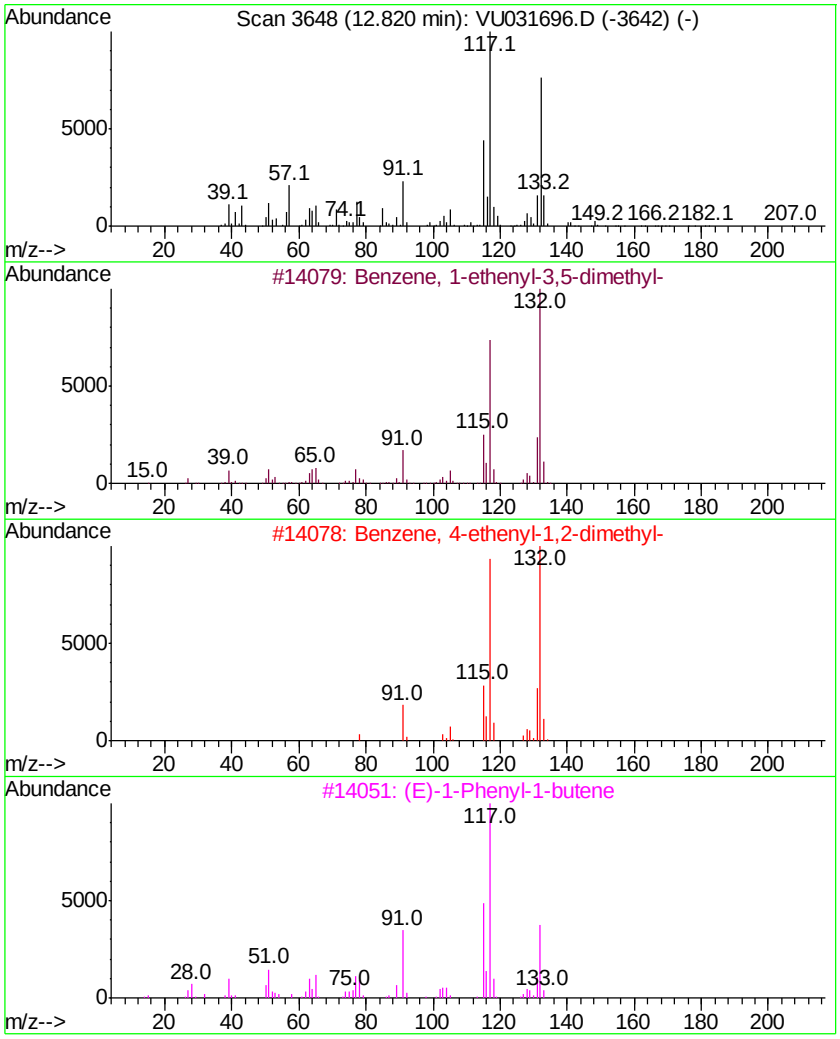
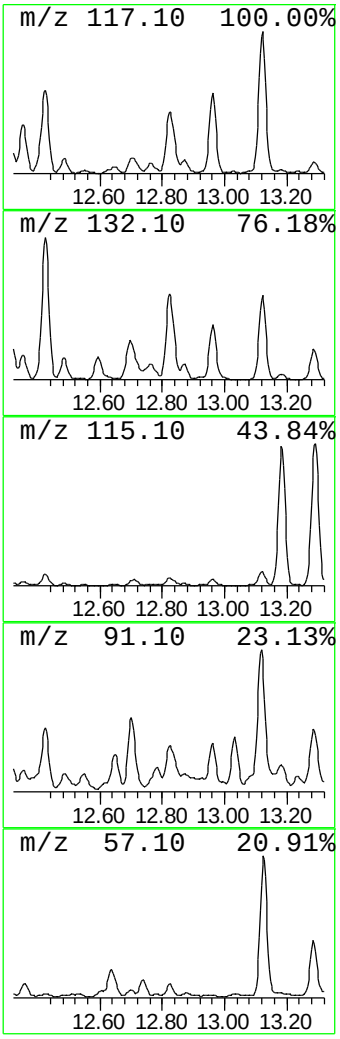
Peak Number 33 Benzene, 1-ethenyl-3,5-dime... Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.82 | 52.29 ug/L | 3244340 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-3,5-dimethyl- | 132 | C10H12 | 005379-20-4 | 95 |
| 2 | Benzene, 4-ethenyl-1,2-dimethyl- | 132 | C10H12 | 027831-13-6 | 95 |
| 3 | (E)-1-Phenyl-1-butene | 132 | C10H12 | 001005-64-7 | 93 |
| 4 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 91 |
| 5 | Bicyclo[4.2.0]octa-1,3,5-triene,... | 132 | C10H12 | 028749-81-7 | 91 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

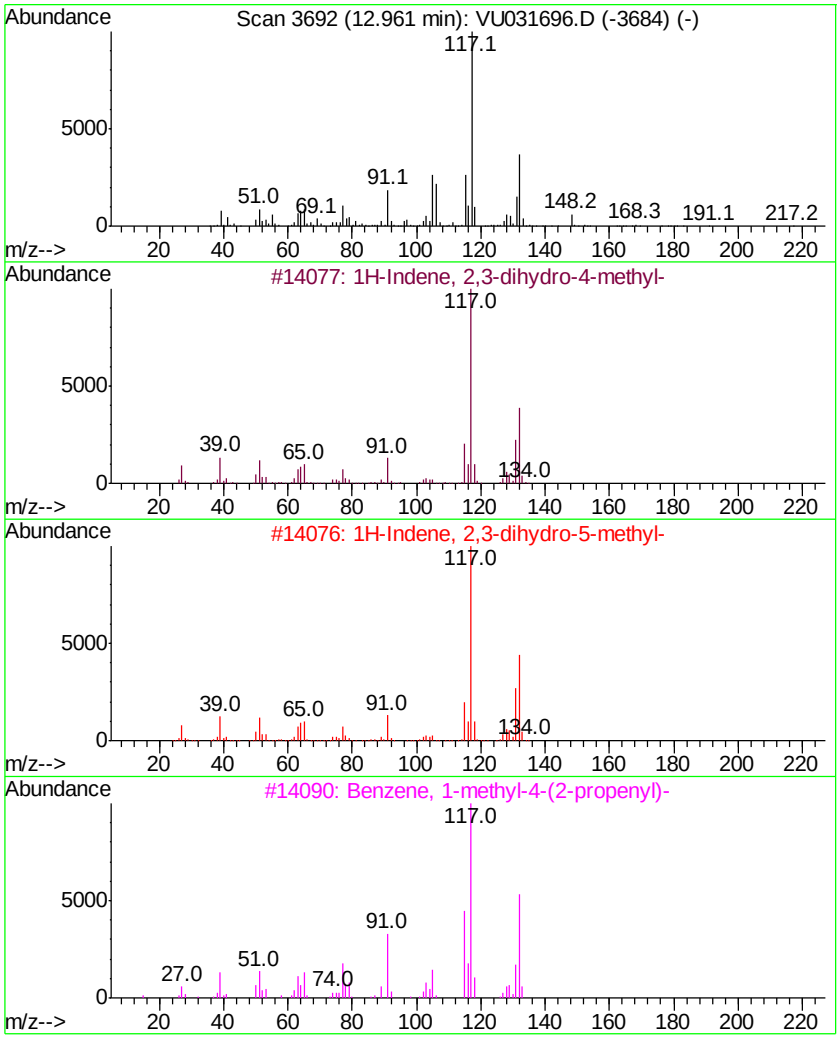
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

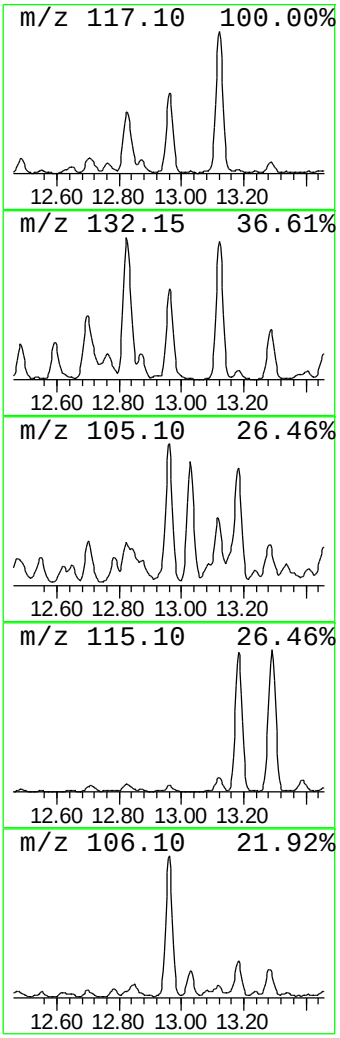
**********

Peak Number 34 1H-Indene, 2,3-dihydro-4-me... Concentration Rank 25

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.96 | 59.74 ug/L | 3706600 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-4-methyl- | 132 | C10H12 | 000824-22-6 | 92 |
| 2 | 1H-Indene, 2,3-dihydro-5-methyl- | 132 | C10H12 | 000874-35-1 | 92 |
| 3 | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12 | 003333-13-9 | 91 |
| 4 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 89 |
| 5 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 87 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

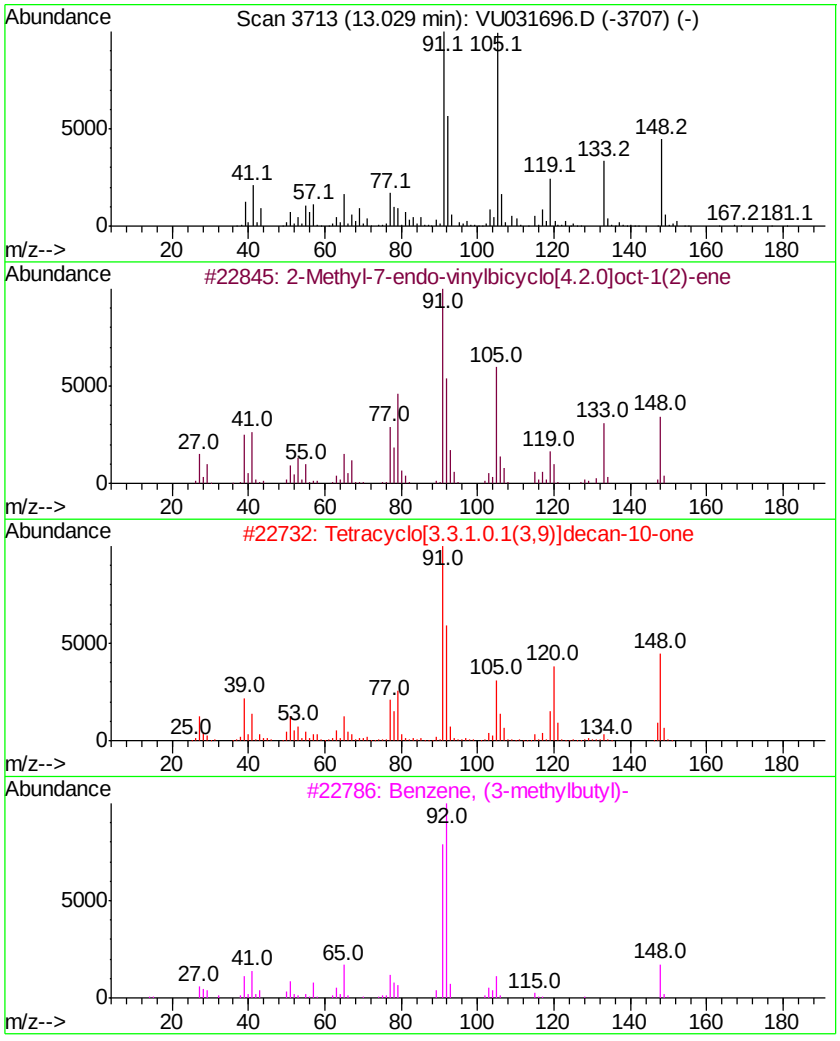
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

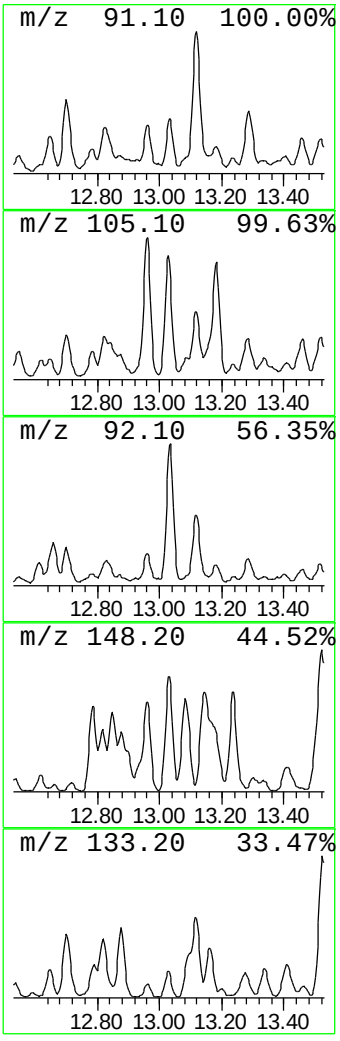
**********

Peak Number 35 2-Methyl-7-endo-vinylbicycl... Concentration Rank 42

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.03 | 20.91 ug/L | 1297310 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Methyl-7-endo-vinylbicyclo[4.2... | 148 | C11H16 | 1000200-99-1 | 90 |
| 2 | Tetracyclo[3.3.1.0.1(3,9)]decan-... | 148 | C10H12O | 016492-06-1 | 80 |
| 3 | Benzene, (3-methylbutyl)- | 148 | C11H16 | 002049-94-7 | 55 |
| 4 | 7-Methyl-1,2,3,5,8,8a-hexahydron... | 148 | C11H16 | 107914-88-5 | 50 |
| 5 | 7-Methyl-1,2,3,5,8,8a-hexahydron... | 148 | C11H16 | 107914-88-5 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

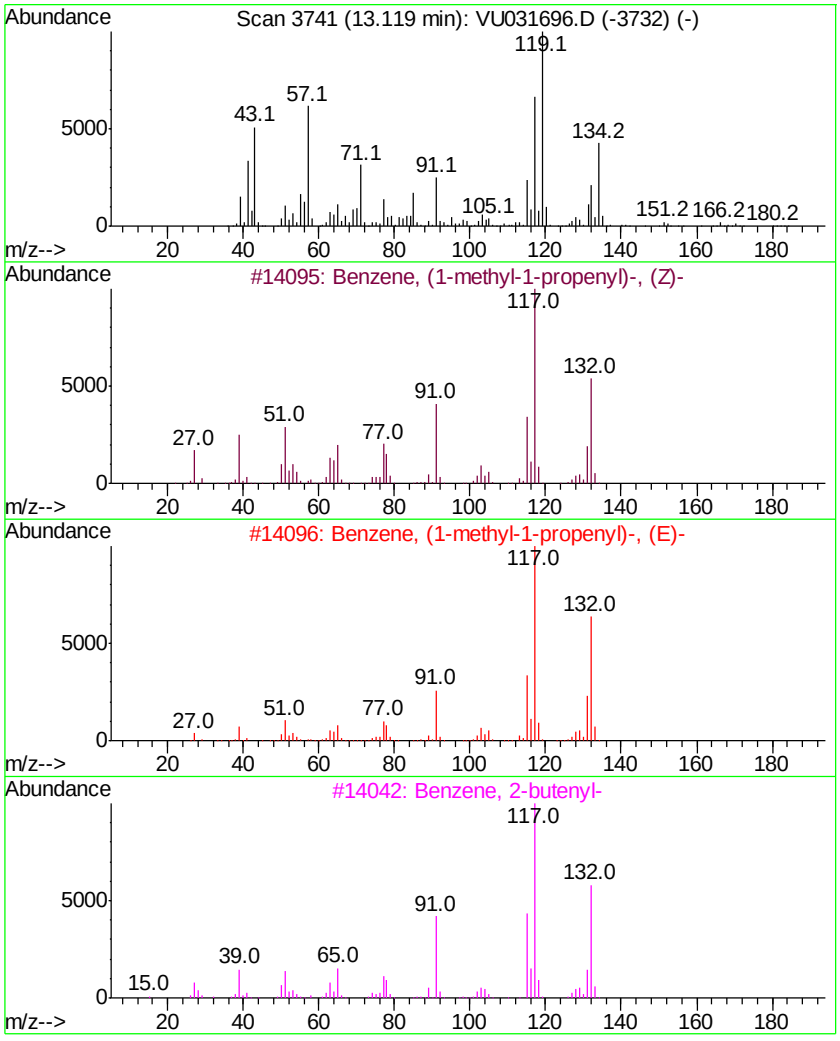
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

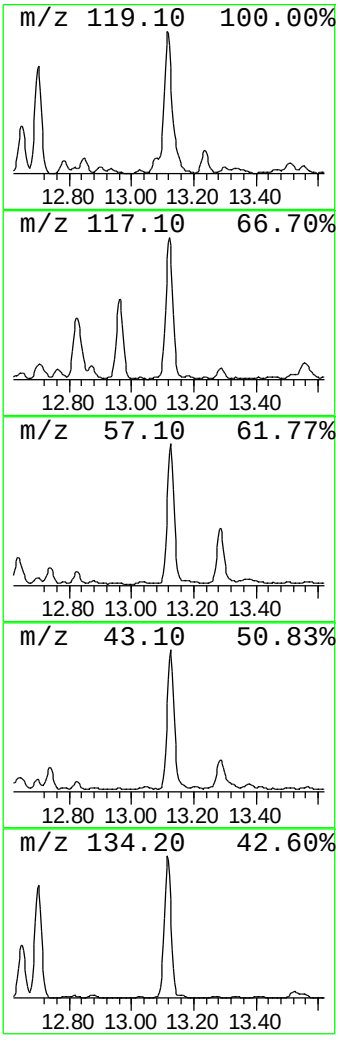
**********

Peak Number 36 Benzene, (1-methyl-1-propen... Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.12 | 310.61 ug/L | 19270600 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000767-99-7 | 84 |
| 2 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 81 |
| 3 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 81 |
| 4 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 55 |
| 5 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 55 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

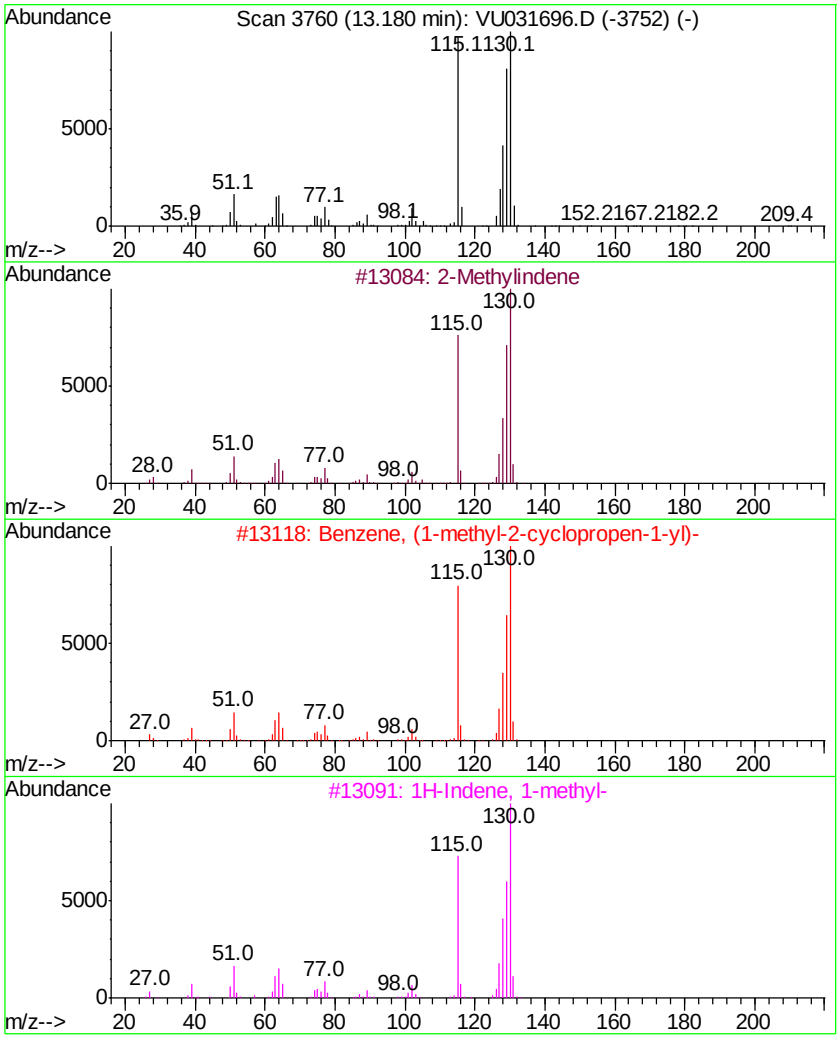
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

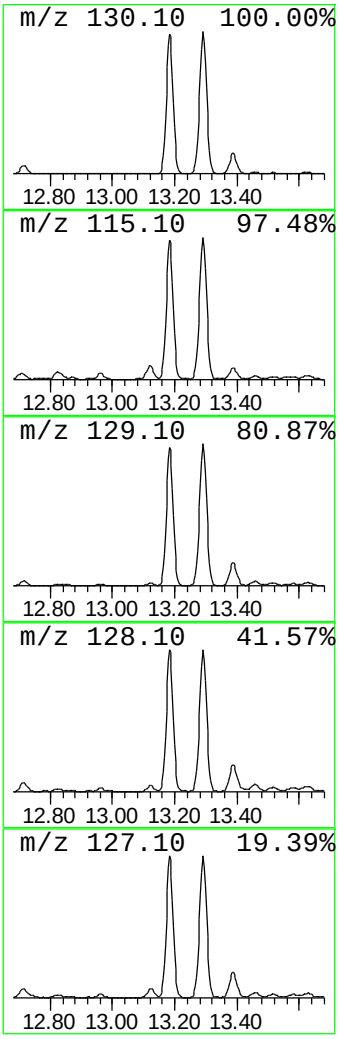
**********

Peak Number 37 2-Methylindene Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.18 | 467.12 ug/L | 28980400 | 1,4-Dichlorobenzene-d4 | 11.49 |

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



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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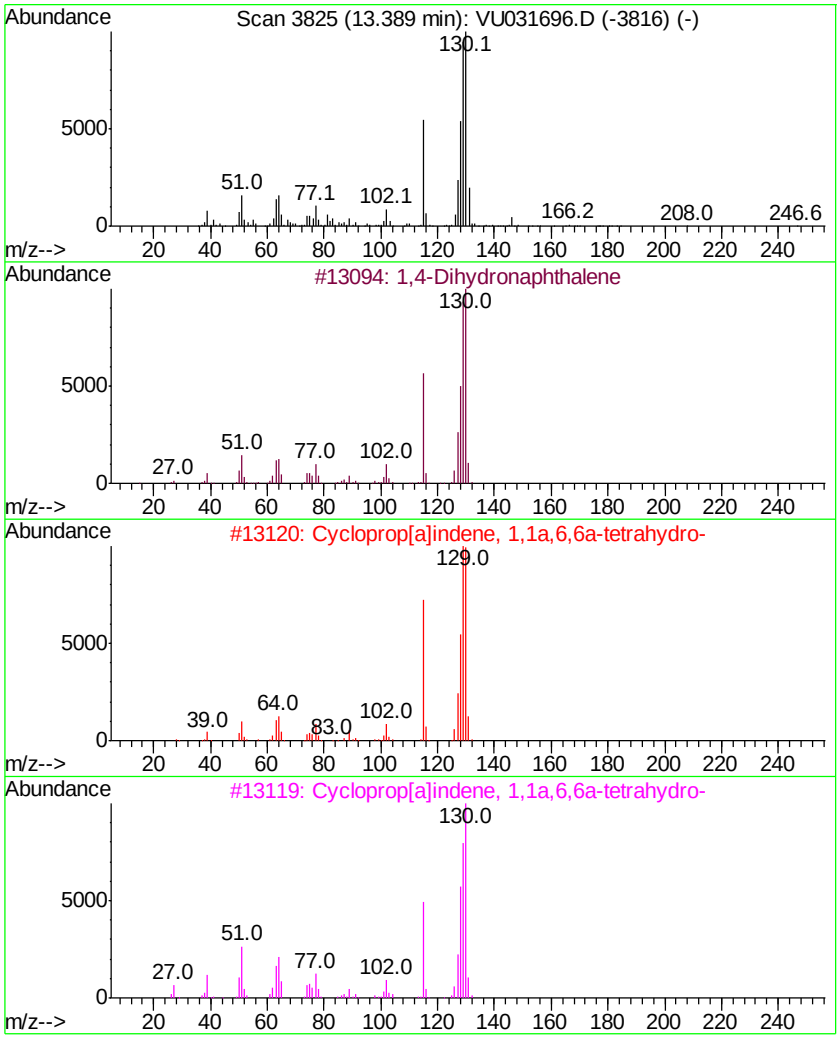
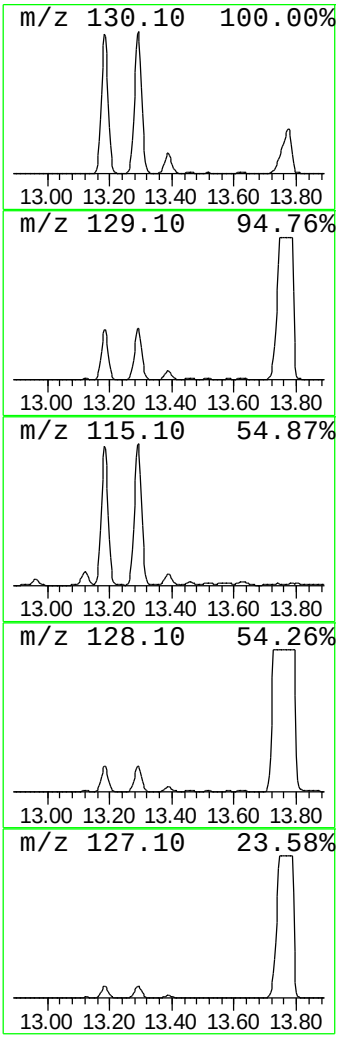
Peak Number 39 1,4-Dihydronaphthalene Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.39 | 96.87 ug/L | 6010020 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,4-Dihydronaphthalene | 130 | C10H10 | 000612-17-9 | 96 |
| 2 | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10 | 015677-15-3 | 95 |
| 3 | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10 | 015677-15-3 | 93 |
| 4 | Cycloprop[a]indene, 1,1a,6,6a-te... | 130 | C10H10 | 015677-15-3 | 93 |
| 5 | Naphthalene, 1,2-dihydro- | 130 | C10H10 | 000447-53-0 | 93 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

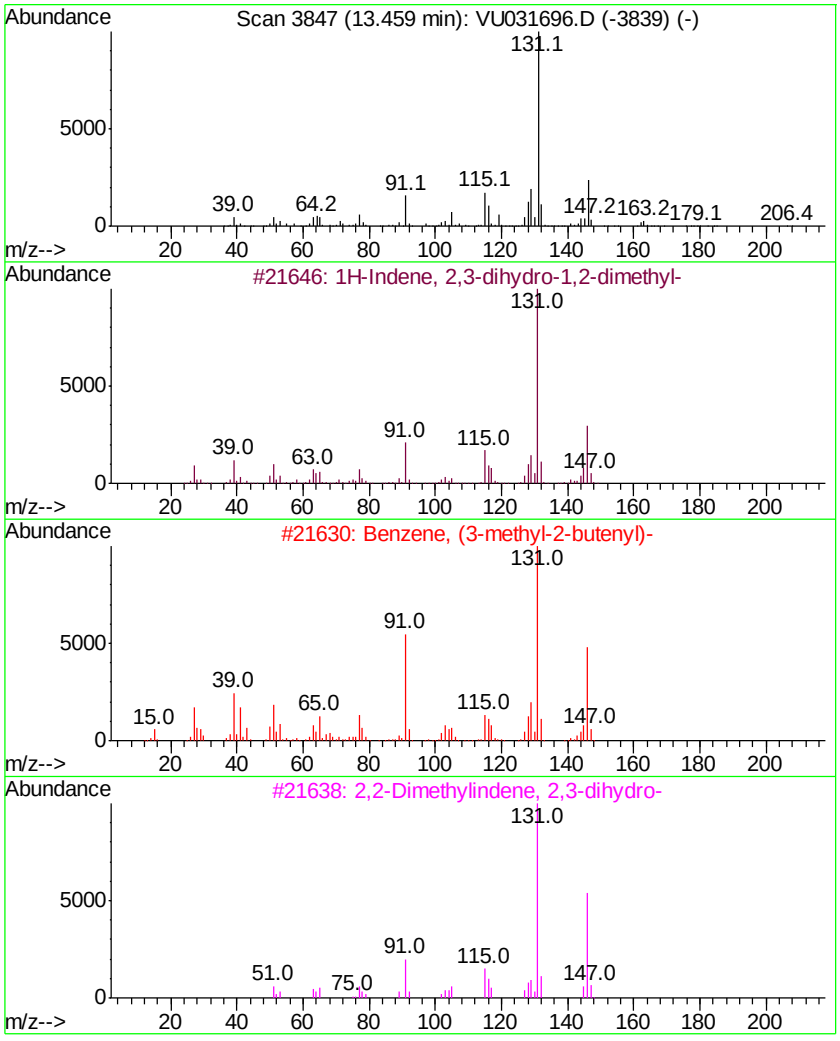
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

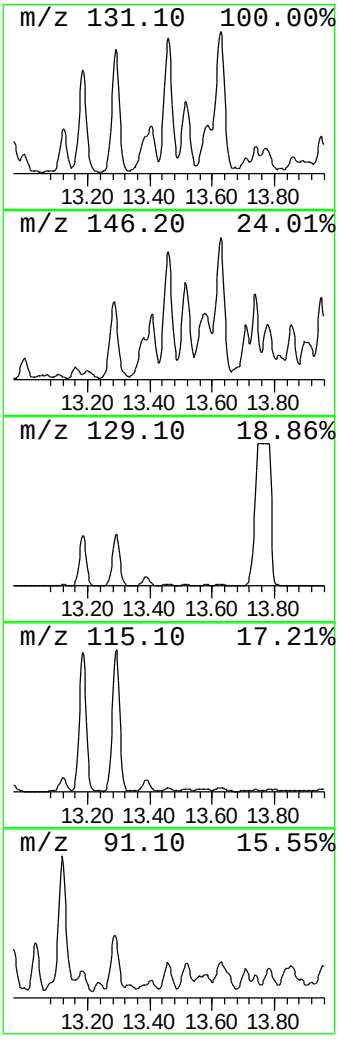
**********

Peak Number 40 1H-Indene, 2,3-dihydro-1,2-... Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.46 | 36.30 ug/L | 2252100 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 94 |
| 2 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 91 |
| 3 | 2,2-Dimethylindene, 2,3-dihydro- | 146 | C11H14 | 020836-11-7 | 91 |
| 4 | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14 | 004175-53-5 | 91 |
| 5 | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14 | 017059-48-2 | 90 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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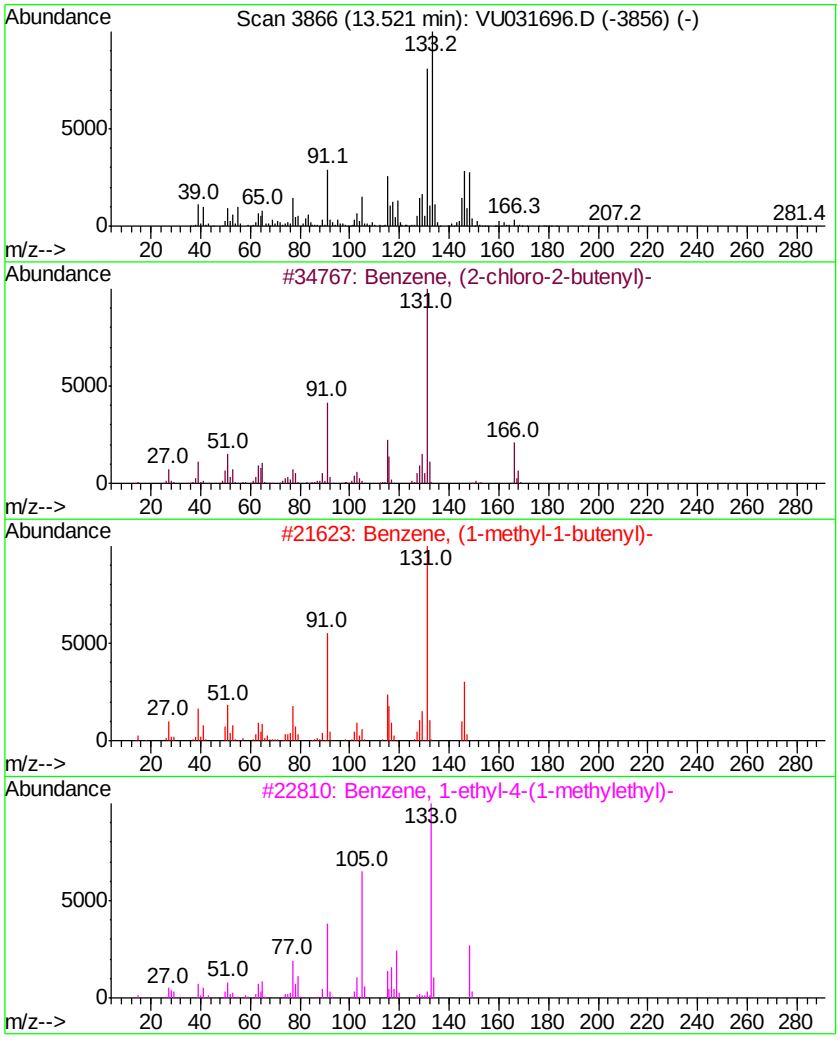
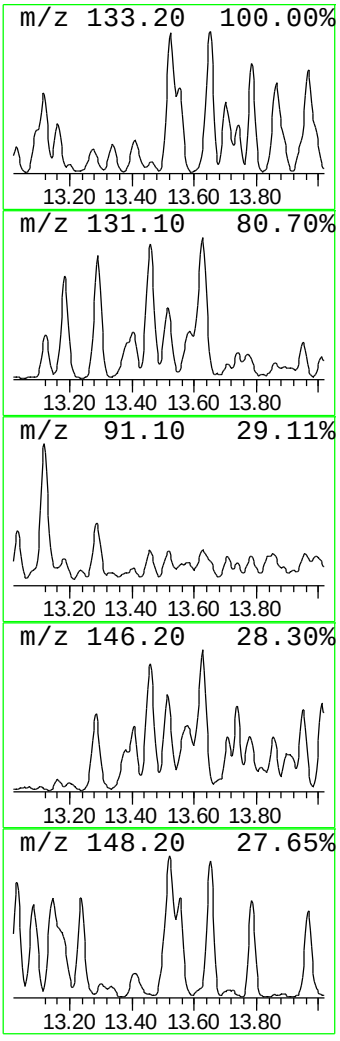
Peak Number 41 Benzene, (2-chloro-2-butenyl)- Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.52 | 47.79 ug/L | 2965010 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (2-chloro-2-butenyl)- | 166 | C10H11Cl | 054411-12-0 | 74 |
| 2 | Benzene, (1-methyl-1-butenyl)- | 146 | C11H14 | 053172-84-2 | 64 |
| 3 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 60 |
| 4 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 50 |
| 5 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 46 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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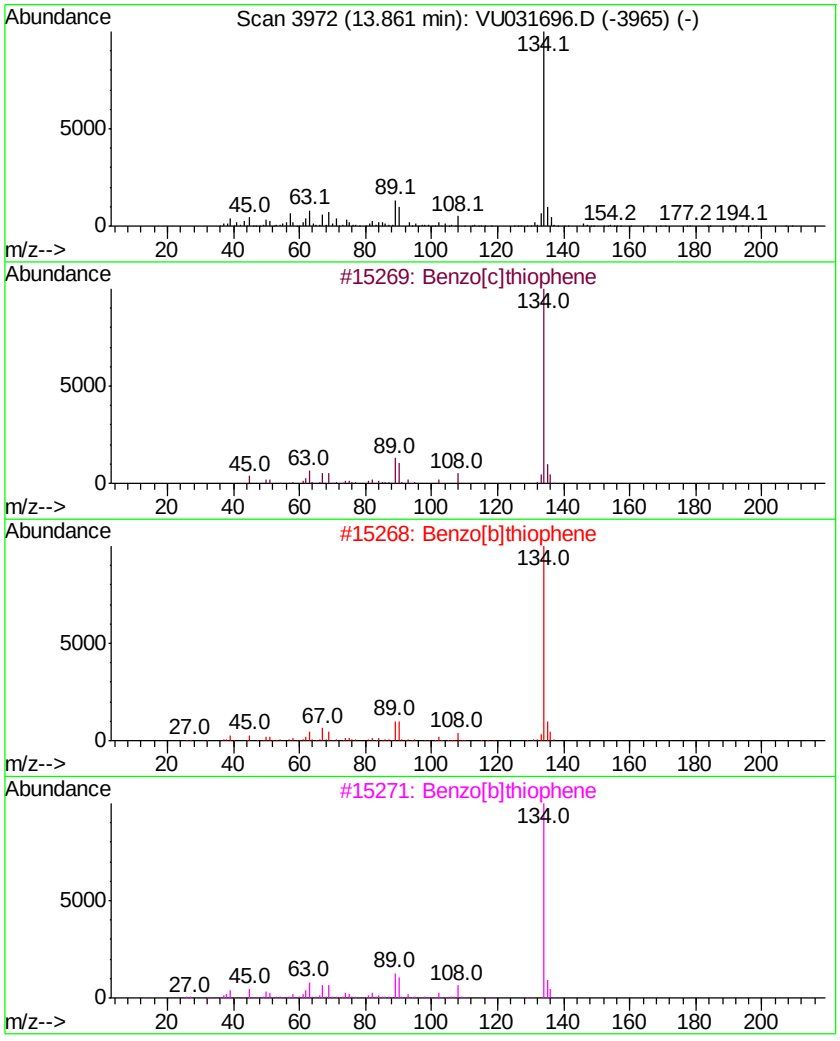
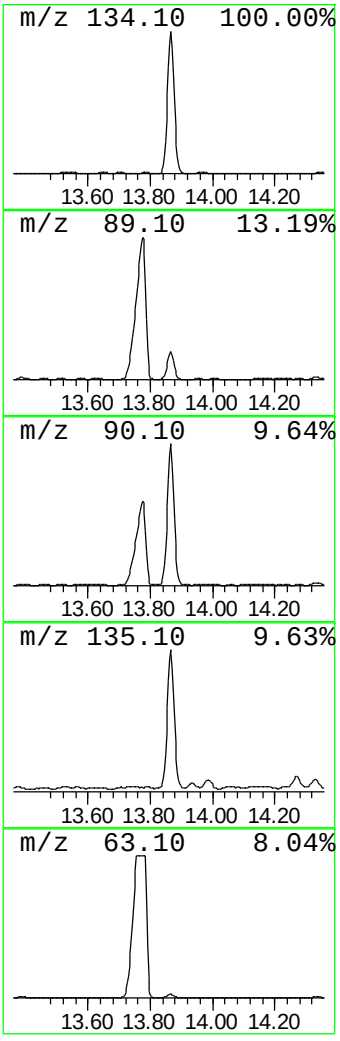
Peak Number 42 Benzo[c]thiophene Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.86 | 167.84 ug/L | 10412800 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzo[c]thiophene | 134 | C8H6S | 000270-82-6 | 97 |
| 2 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 97 |
| 3 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 95 |
| 4 | Benzo[b]thiophene | 134 | C8H6S | 000095-15-8 | 94 |
| 5 | Cyclopenta[c]thiapyran | 134 | C8H6S | 000270-63-3 | 94 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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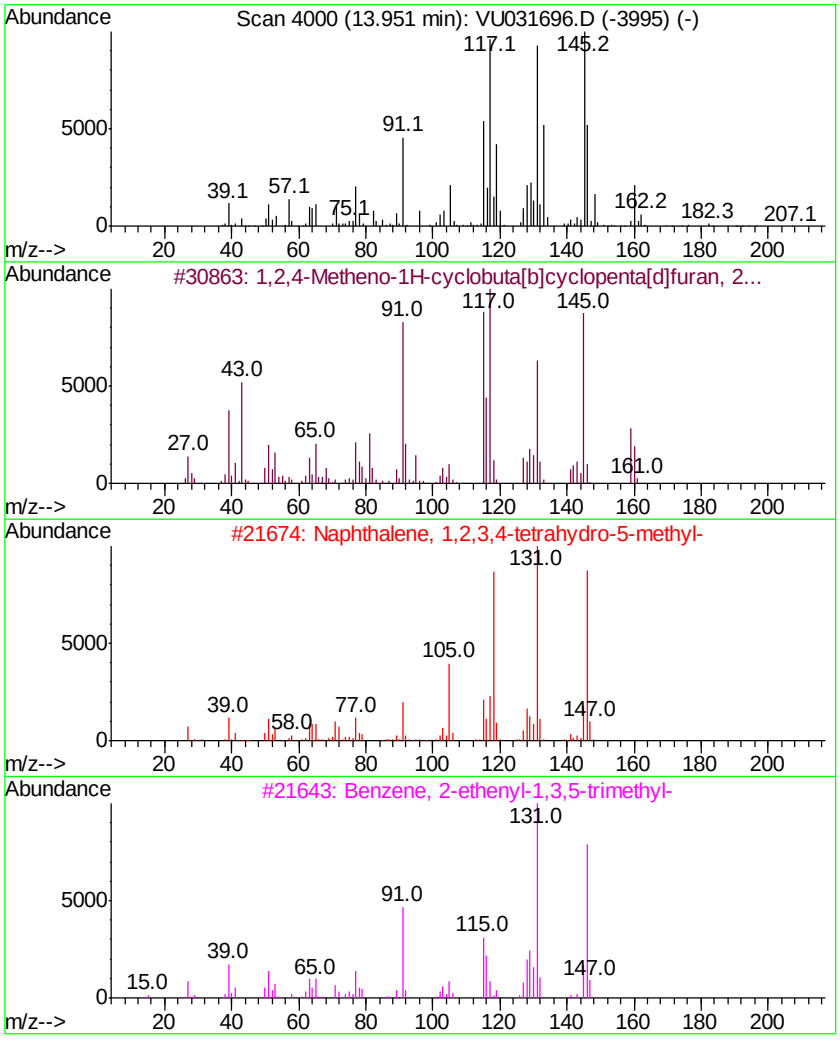
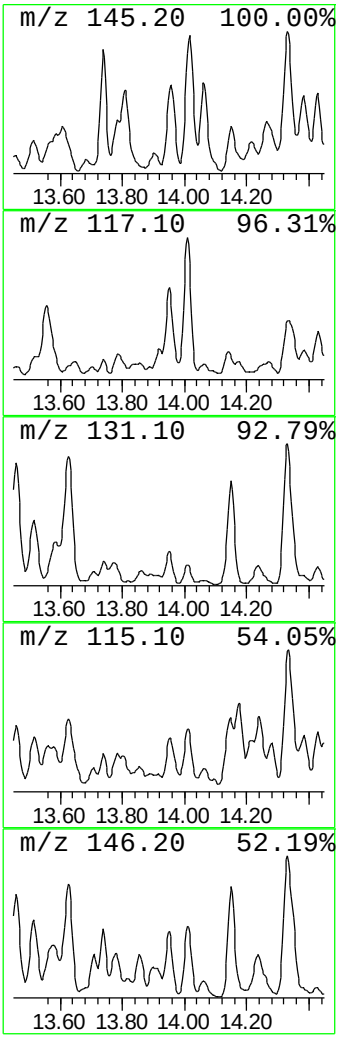
Peak Number 43 unknown-01 Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.95 | 22.08 ug/L | 1369620 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1,2,4-Metheno-1H-cyclobuta[b]cyc... | 160 | C11H12O | 078323-74-7 | 46 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 002809-64-5 | 43 |
| 3 | Benzene, 2-ethenyl-1,3,5-trimethyl- | 146 | C11H14 | 000769-25-5 | 42 |
| 4 | Benzene, (1-ethyl-1-propenyl)- | 146 | C11H14 | 004701-36-4 | 38 |
| 5 | 1H-Pyrrolo[2,3-b]pyridine, 2-ethyl- | 146 | C9H10N2 | 023612-49-9 | 38 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

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

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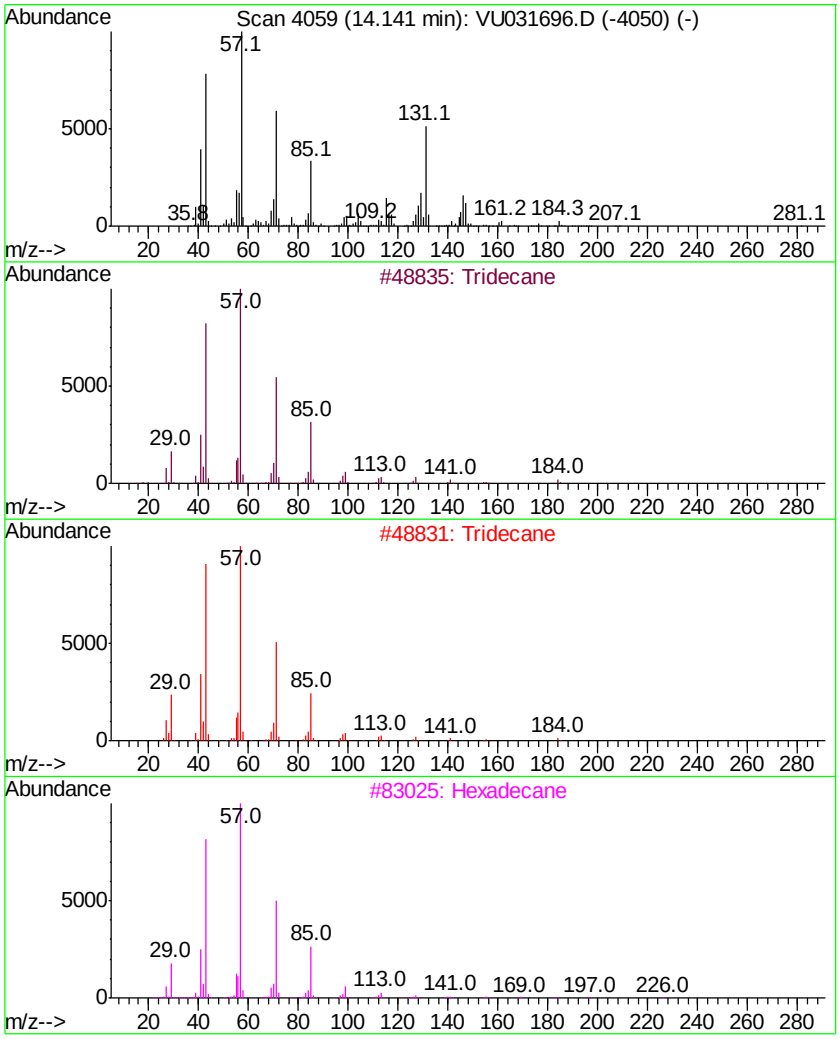
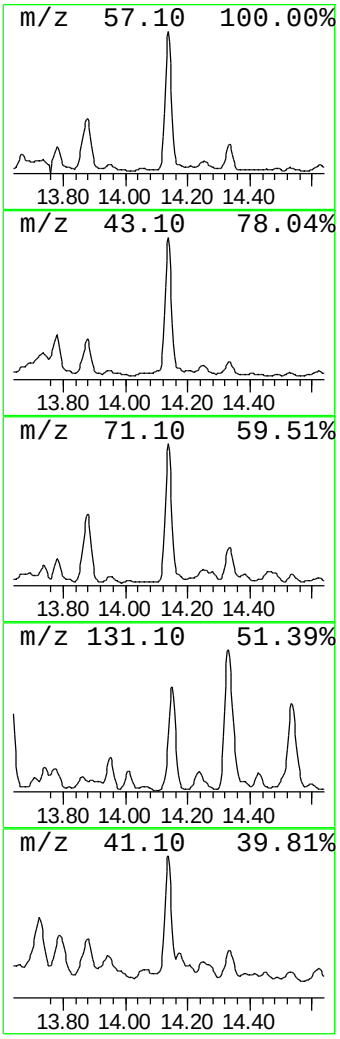
Peak Number 44 (DEL) Alkane: Straight-Chai... Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.14 | 103.47 ug/L | 6419580 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Tridecane | 184 | C13H28 | 000629-50-5 | 92 |
| 2 | Tridecane | 184 | C13H28 | 000629-50-5 | 90 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 46 |
| 4 | Hexadecane | 226 | C16H34 | 000544-76-3 | 46 |
| 5 | Pentadecane | 212 | C15H32 | 000629-62-9 | 43 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

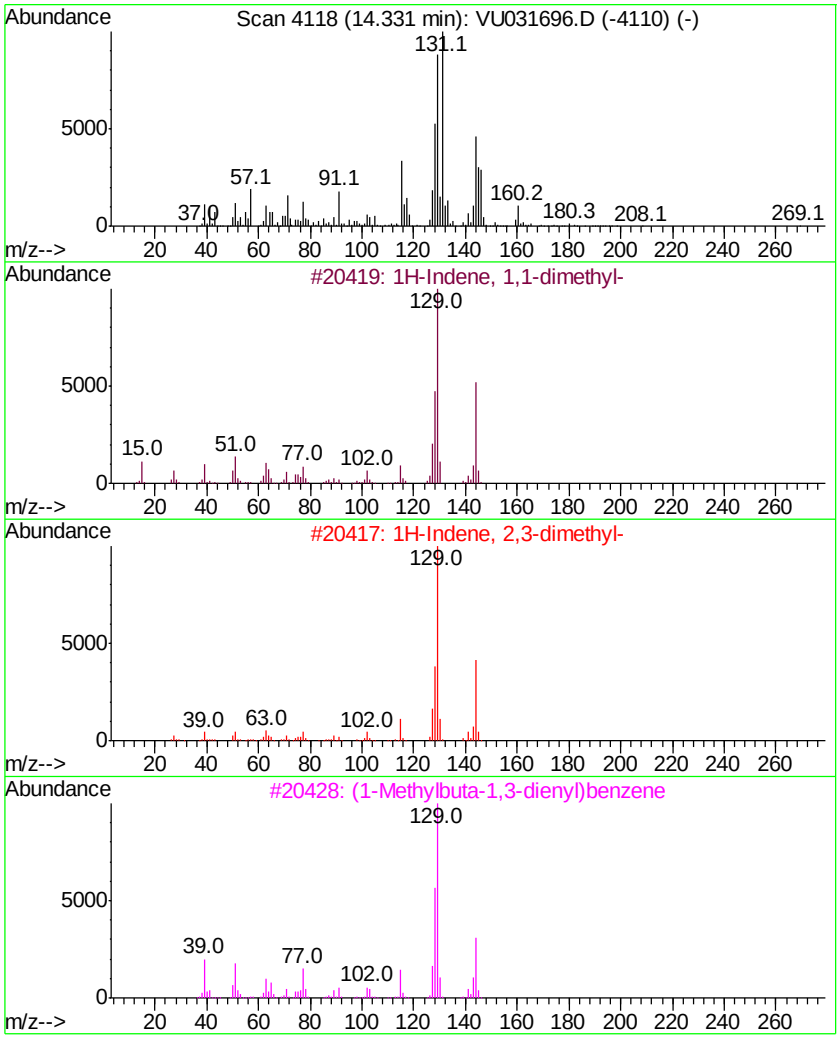
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

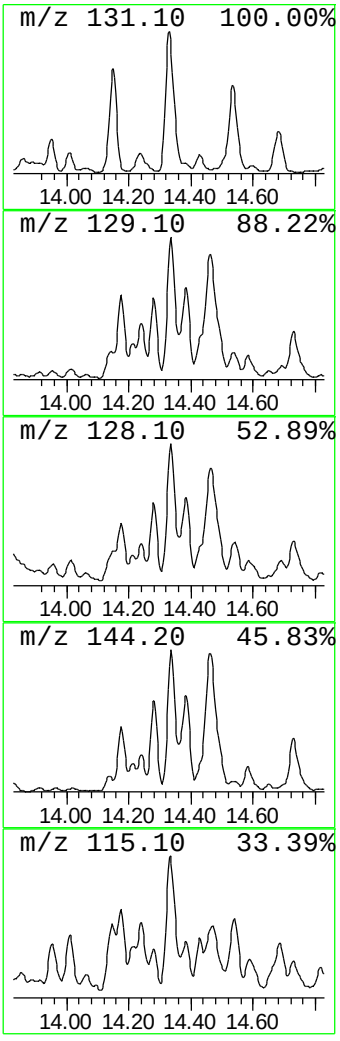
**********

Peak Number 45 1H-Indene, 1,1-dimethyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.33 | 137.29 ug/L | 8517230 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 1,1-dimethyl- | 144 | C11H12 | 018636-55-0 | 87 |
| 2 | 1H-Indene, 2,3-dimethyl- | 144 | C11H12 | 004773-82-4 | 55 |
| 3 | (1-Methylbuta-1,3-dienyl)benzene | 144 | C11H12 | 054758-36-0 | 55 |
| 4 | 1H-Indene, 4,7-dimethyl- | 144 | C11H12 | 006974-97-6 | 55 |
| 5 | 1H-Indene, 1,3-dimethyl- | 144 | C11H12 | 002177-48-2 | 55 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.M
Quant Title : VOC Analysis

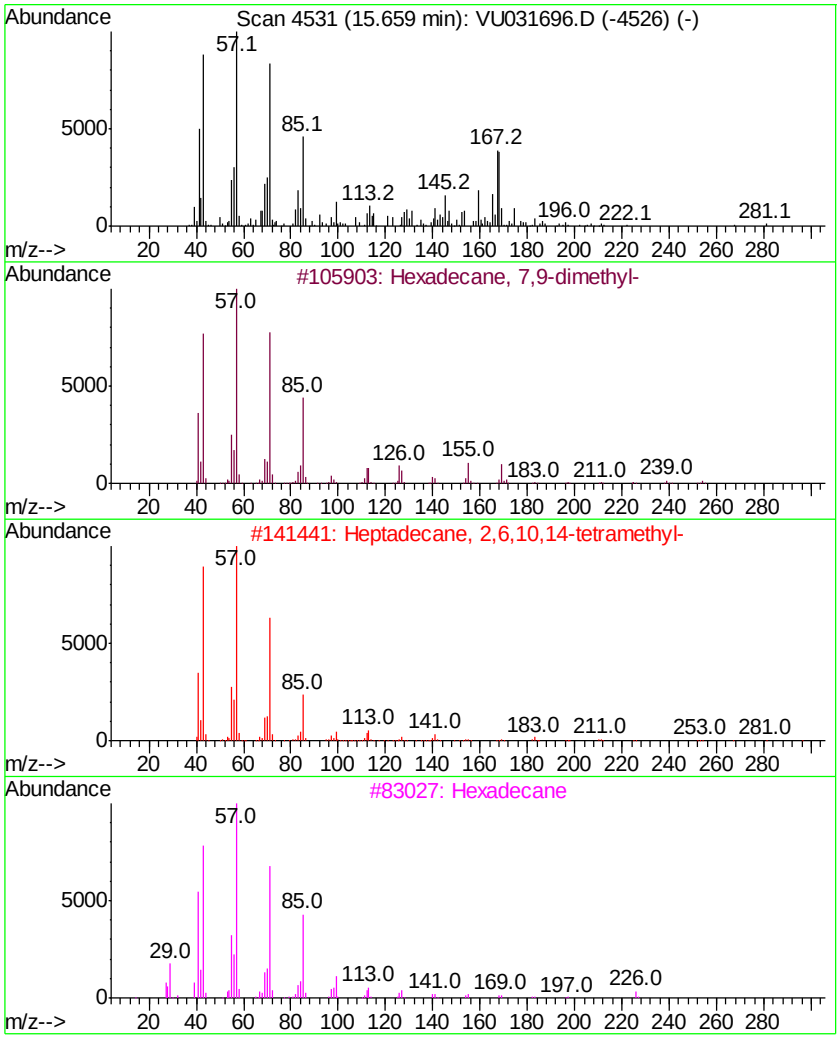
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

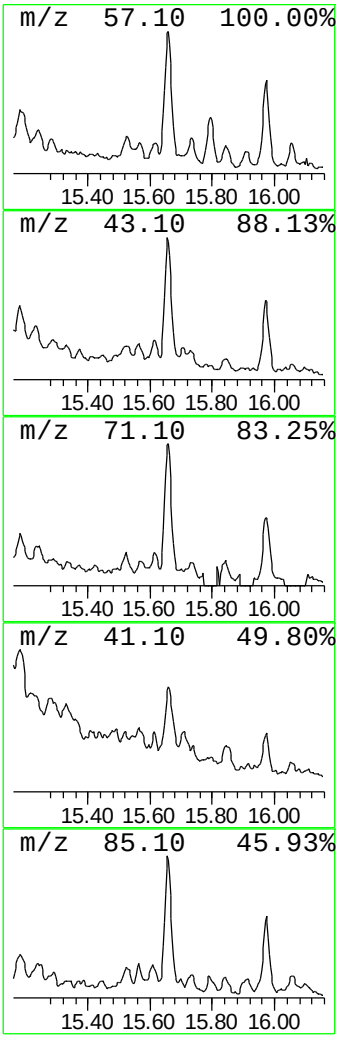
**********

Peak Number 51 (DEL) Alkane: Straight-Chai... Concentration Rank 53

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 15.66 | 7.71 ug/L | 478514 | 1,4-Dichlorobenzene-d4 | 11.49 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexadecane, 7,9-dimethyl- | 254 | C18H38 | 021164-95-4 | 46 |
| 2 | Heptadecane, 2,6,10,14-tetramethyl- | 296 | C21H44 | 018344-37-1 | 46 |
| 3 | Hexadecane | 226 | C16H34 | 000544-76-3 | 43 |
| 4 | Undecane, 3-methyl- | 170 | C12H26 | 001002-43-3 | 43 |
| 5 | Undecane, 5-methyl- | 170 | C12H26 | 001632-70-8 | 43 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_U\DATA\VU050119\
Data File : VU031696.D
Acq On : 01 May 2019 19:45
Operator : JC/SP
Sample : K2603-10
Misc : 5.02g/5mL/100uL/5.0mL/MSVOA_U/MEOH
ALS Vial : 28 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** GAJ62

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_U\METHOD\SOMULM042719WMA.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... | 9.44 | 15.7 | ug/L | 974852 | 2 | 9.09 | 3107610 | 50.0 |
| Thiophene, 2,4-di... | 9.56 | 3.3 | ug/L | 207803 | 2 | 9.09 | 3107610 | 50.0 |
| (DEL) Alkane: Cyc... | 9.72 | 3.6 | ug/L | 226782 | 2 | 9.09 | 3107610 | 50.0 |
| (DEL) Alkane: Str... | 9.95 | 9.8 | ug/L | 609291 | 2 | 9.09 | 3107610 | 50.0 |
| (DEL) Alkane: Cyc... | 10.04 | 5.7 | ug/L | 356565 | 2 | 9.09 | 3107610 | 50.0 |
| (DEL) Alkane: Str... | 10.32 | 8.5 | ug/L | 528868 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, propyl- | 10.59 | 17.1 | ug/L | 1061550 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, 1-ethyl-... | 10.68 | 92.8 | ug/L | 5754000 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, 1,2,3-tr... | 10.77 | 118.8 | ug/L | 7373740 | 3 | 11.49 | 3102030 | 50.0 |
| (DEL) Alkane: Str... | 10.81 | 74.3 | ug/L | 4611820 | 3 | 11.49 | 3102030 | 50.0 |
| .alpha.-Methylsty... | 11.00 | 89.4 | ug/L | 5547880 | 3 | 11.49 | 3102030 | 50.0 |
| (DEL) Alkane: Cyc... | 11.06 | 3.9 | ug/L | 242147 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, 1-etheny... | 11.22 | 275.3 | ug/L | 17078100 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, cyclopro... | 11.27 | 67.9 | ug/L | 4210020 | 3 | 11.49 | 3102030 | 50.0 |
| (DEL) Alkane: Str... | 11.33 | 13.7 | ug/L | 849699 | 3 | 11.49 | 3102030 | 50.0 |
| Benzofuran | 11.40 | 73.2 | ug/L | 4541900 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, 2-propenyl- | 11.63 | 112.7 | ug/L | 6994230 | 3 | 11.49 | 3102030 | 50.0 |
| (DEL) Alkane: Str... | 11.70 | 9.1 | ug/L | 563765 | 3 | 11.49 | 3102030 | 50.0 |
| Indane | 11.77 | 194.0 | ug/L | 12034800 | 3 | 11.49 | 3102030 | 50.0 |
| Indene | 11.99 | 2084.2 | ug/L | 129303000 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, 2-ethyl-... | 12.15 | 17.0 | ug/L | 1056620 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, 1-methyl... | 12.18 | 32.0 | ug/L | 1986660 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, 1-methyl... | 12.22 | 33.0 | ug/L | 2047300 | 3 | 11.49 | 3102030 | 50.0 |
| Indan, 1-methyl- | 12.35 | 29.4 | ug/L | 1825840 | 3 | 11.49 | 3102030 | 50.0 |
| 2,4-Dimethylstyrene | 12.42 | 76.5 | ug/L | 4746730 | 3 | 11.49 | 3102030 | 50.0 |
| Naphthalene, deca... | 12.51 | 50.7 | ug/L | 3147670 | 3 | 11.49 | 3102030 | 50.0 |
| (DEL) Alkane: Cyc... | 12.61 | 62.8 | ug/L | 3894080 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, 1,2,3,5-... | 12.65 | 44.7 | ug/L | 2772330 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, 1,2,4,5-... | 12.70 | 178.5 | ug/L | 11073200 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, 1-etheny... | 12.82 | 52.3 | ug/L | 3244340 | 3 | 11.49 | 3102030 | 50.0 |
| 1H-Indene, 2,3-di... | 12.96 | 59.7 | ug/L | 3706600 | 3 | 11.49 | 3102030 | 50.0 |
| 2-Methyl-7-endo-v... | 13.03 | 20.9 | ug/L | 1297310 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, (1-methy... | 13.12 | 310.6 | ug/L | 19270600 | 3 | 11.49 | 3102030 | 50.0 |
| 2-Methylindene | 13.18 | 467.1 | ug/L | 28980400 | 3 | 11.49 | 3102030 | 50.0 |
| 1,4-Dihydronaphth... | 13.39 | 96.9 | ug/L | 6010020 | 3 | 11.49 | 3102030 | 50.0 |
| 1H-Indene, 2,3-di... | 13.46 | 36.3 | ug/L | 2252100 | 3 | 11.49 | 3102030 | 50.0 |
| Benzene, (2-chlor... | 13.52 | 47.8 | ug/L | 2965010 | 3 | 11.49 | 3102030 | 50.0 |
| Benzo[c]thiophene | 13.86 | 167.8 | ug/L | 10412800 | 3 | 11.49 | 3102030 | 50.0 |
| unknown-01 | 13.95 | 22.1 | ug/L | 1369620 | 3 | 11.49 | 3102030 | 50.0 |
| (DEL) Alkane: Str... | 14.14 | 103.5 | ug/L | 6419580 | 3 | 11.49 | 3102030 | 50.0 |
| 1H-Indene, 1,1-di... | 14.33 | 137.3 | ug/L | 8517230 | 3 | 11.49 | 3102030 | 50.0 |
| (DEL) Alkane: Str... | 15.66 | 7.7 | ug/L | 478514 | 3 | 11.49 | 3102030 | 50.0 |