LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

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_V\METHOD\SOM2VLM040219S.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 | 1.309 | 57 | 68 | 79 | rBV2 | 150554 | 223685 | 1.27% | 0.224% |
| 2 | 1.528 | 114 | 136 | 142 | rBV | 297957 | 352951 | 2.00% | 0.354% |
| 3 | 1.563 | 142 | 147 | 160 | rVV | 176673 | 217729 | 1.23% | 0.218% |
| 4 | 1.631 | 160 | 168 | 177 | rVB | 158382 | 199283 | 1.13% | 0.200% |
| 5 | 1.756 | 199 | 207 | 216 | rVV | 226706 | 301482 | 1.71% | 0.302% |
| 6 | 1.807 | 216 | 223 | 239 | rVB | 191746 | 254616 | 1.44% | 0.255% |
| 7 | 2.033 | 285 | 293 | 305 | rVV | 49143 | 70770 | 0.40% | 0.071% |
| 8 | 2.119 | 309 | 320 | 335 | rVV | 302777 | 512850 | 2.91% | 0.514% |
| 9 | 2.544 | 431 | 452 | 461 | rVV3 | 227373 | 577533 | 3.27% | 0.579% |
| 10 | 2.595 | 461 | 468 | 486 | rVV2 | 104488 | 215797 | 1.22% | 0.216% |
| 11 | 2.782 | 512 | 526 | 546 | rVB | 150032 | 310247 | 1.76% | 0.311% |
| 12 | 3.065 | 599 | 614 | 634 | rVB | 181488 | 361244 | 2.05% | 0.362% |
| 13 | 3.303 | 680 | 688 | 701 | rVB3 | 32619 | 66408 | 0.38% | 0.067% |
| 14 | 3.801 | 827 | 843 | 859 | rVV2 | 151755 | 378811 | 2.15% | 0.380% |
| 15 | 4.396 | 1011 | 1028 | 1054 | rBV2 | 183068 | 499450 | 2.83% | 0.501% |
| 16 | 4.714 | 1109 | 1127 | 1143 | rBV4 | 243754 | 617904 | 3.50% | 0.620% |
| 17 | 4.804 | 1143 | 1155 | 1182 | rVB4 | 73969 | 221944 | 1.26% | 0.223% |
| 18 | 4.949 | 1182 | 1200 | 1226 | rBV2 | 189780 | 479375 | 2.72% | 0.481% |
| 19 | 5.090 | 1226 | 1244 | 1257 | rBV2 | 406030 | 1001108 | 5.67% | 1.004% |
| 20 | 5.219 | 1273 | 1284 | 1291 | rBV5 | 64384 | 135791 | 0.77% | 0.136% |
| 21 | 5.280 | 1292 | 1303 | 1317 | rVV5 | 128829 | 343521 | 1.95% | 0.344% |
| 22 | 5.364 | 1317 | 1329 | 1343 | rVB5 | 73364 | 182333 | 1.03% | 0.183% |
| 23 | 5.531 | 1364 | 1381 | 1392 | rBV | 174342 | 348553 | 1.97% | 0.350% |
| 24 | 5.659 | 1408 | 1421 | 1449 | rBV | 356468 | 895604 | 5.07% | 0.898% |
| 25 | 6.116 | 1548 | 1563 | 1571 | rBV | 230656 | 491319 | 2.78% | 0.493% |
| 26 | 6.171 | 1572 | 1580 | 1594 | rVV2 | 273800 | 600633 | 3.40% | 0.602% |
| 27 | 6.238 | 1594 | 1601 | 1610 | rVV5 | 40064 | 74181 | 0.42% | 0.074% |
| 28 | 6.296 | 1610 | 1619 | 1630 | rVV3 | 47325 | 85358 | 0.48% | 0.086% |
| 29 | 6.431 | 1643 | 1661 | 1673 | rBV5 | 92127 | 267195 | 1.51% | 0.268% |
| 30 | 6.499 | 1675 | 1682 | 1698 | rVB6 | 31216 | 66412 | 0.38% | 0.067% |
| 31 | 6.695 | 1727 | 1743 | 1760 | rVB3 | 99354 | 233643 | 1.32% | 0.234% |
| 32 | 6.820 | 1762 | 1782 | 1795 | rBV3 | 125947 | 364965 | 2.07% | 0.366% |
| 33 | 6.958 | 1816 | 1825 | 1832 | rBV2 | 82477 | 134576 | 0.76% | 0.135% |
| 34 | 7.029 | 1842 | 1847 | 1857 | rVB2 | 82197 | 123519 | 0.70% | 0.124% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

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_V\METHOD\SOM2VLM040219S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 35 | 7.119 | 1866 | 1875 | 1884 | rBV | 98116 | 161574 | 0.92% | 0.162% |
| 36 | 7.212 | 1895 | 1904 | 1916 | rVB8 | 39426 | 83509 | 0.47% | 0.084% |
| 37 | 7.306 | 1916 | 1933 | 1939 | rBV5 | 80162 | 178034 | 1.01% | 0.179% |
| 38 | 7.357 | 1939 | 1949 | 1961 | rVB | 458766 | 801157 | 4.54% | 0.803% |
| 39 | 7.431 | 1961 | 1972 | 1982 | rBV | 247259 | 425856 | 2.41% | 0.427% |
| 40 | 7.608 | 2017 | 2027 | 2039 | rBV3 | 86358 | 181038 | 1.03% | 0.182% |
| 41 | 8.132 | 2178 | 2190 | 2202 | rBV2 | 111603 | 212067 | 1.20% | 0.213% |
| 42 | 8.270 | 2219 | 2233 | 2243 | rVB10 | 36059 | 101192 | 0.57% | 0.101% |
| 43 | 8.707 | 2361 | 2369 | 2380 | rVB3 | 62767 | 99309 | 0.56% | 0.100% |
| 44 | 8.830 | 2397 | 2407 | 2416 | rVB2 | 56791 | 90317 | 0.51% | 0.091% |
| 45 | 8.894 | 2416 | 2427 | 2446 | rBV | 442769 | 736759 | 4.17% | 0.739% |
| 46 | 9.055 | 2465 | 2477 | 2491 | rBV | 2206191 | 3426176 | 19.41% | 3.436% |
| 47 | 9.180 | 2503 | 2516 | 2529 | rBV | 3503188 | 5591227 | 31.67% | 5.607% |
| 48 | 9.244 | 2531 | 2536 | 2561 | rVB5 | 78939 | 173121 | 0.98% | 0.174% |
| 49 | 9.585 | 2630 | 2642 | 2668 | rVB | 1445811 | 2351234 | 13.32% | 2.358% |
| 50 | 9.974 | 2749 | 2763 | 2780 | rBV | 469124 | 755531 | 4.28% | 0.758% |
| 51 | 10.260 | 2836 | 2852 | 2870 | rVB | 177560 | 305690 | 1.73% | 0.307% |
| 52 | 10.396 | 2883 | 2894 | 2912 | rBV | 1401510 | 2131424 | 12.07% | 2.137% |
| 53 | 10.492 | 2912 | 2924 | 2942 | rVV | 4052024 | 9008153 | 51.03% | 9.034% |
| 54 | 10.585 | 2942 | 2953 | 2984 | rVB | 2909239 | 4488110 | 25.42% | 4.501% |
| 55 | 10.781 | 3003 | 3014 | 3036 | rVB | 2032444 | 3106210 | 17.60% | 3.115% |
| 56 | 10.961 | 3052 | 3070 | 3097 | rVB | 11920673 | 17653303 | 100.00% | 17.703% |
| 57 | 11.100 | 3099 | 3113 | 3118 | rBV | 128496 | 208832 | 1.18% | 0.209% |
| 58 | 11.132 | 3118 | 3123 | 3136 | rVB | 160876 | 239803 | 1.36% | 0.240% |
| 59 | 11.238 | 3148 | 3156 | 3164 | rVV | 261308 | 386378 | 2.19% | 0.387% |
| 60 | 11.293 | 3164 | 3173 | 3189 | rVV3 | 374962 | 601328 | 3.41% | 0.603% |
| 61 | 11.383 | 3189 | 3201 | 3216 | rVV | 2810120 | 4232684 | 23.98% | 4.245% |
| 62 | 11.579 | 3248 | 3262 | 3269 | rBV3 | 1169509 | 2398168 | 13.58% | 2.405% |
| 63 | 11.621 | 3270 | 3275 | 3283 | rVV | 1274721 | 1799692 | 10.19% | 1.805% |
| 64 | 11.685 | 3283 | 3295 | 3312 | rVB3 | 2070676 | 4221981 | 23.92% | 4.234% |
| 65 | 11.791 | 3319 | 3328 | 3337 | rBV2 | 124802 | 192699 | 1.09% | 0.193% |
| 66 | 11.865 | 3337 | 3351 | 3367 | rVB | 555569 | 877356 | 4.97% | 0.880% |
| 67 | 11.958 | 3367 | 3380 | 3384 | rBV | 1156258 | 1710790 | 9.69% | 1.716% |
| 68 | 11.987 | 3385 | 3389 | 3400 | rVB | 1073610 | 1422899 | 8.06% | 1.427% |
| 69 | 12.061 | 3400 | 3412 | 3433 | rVB | 1963513 | 3155029 | 17.87% | 3.164% |
| 70 | 12.164 | 3433 | 3444 | 3474 | rBV3 | 482737 | 1189958 | 6.74% | 1.193% |
| 71 | 12.302 | 3475 | 3487 | 3495 | rBV3 | 49617 | 96236 | 0.55% | 0.097% |

LSC Area Percent Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

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_V\METHOD\SOM2VLM040219S.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 72 | 12.363 | 3495 | 3506 | 3517 | rVB | 443496 | 683672 | 3.87% | 0.686% |
| 73 | 12.460 | 3517 | 3536 | 3544 | rBV | 1239819 | 1893893 | 10.73% | 1.899% |
| 74 | 12.514 | 3544 | 3553 | 3569 | rVB | 1808314 | 2659474 | 15.07% | 2.667% |
| 75 | 12.598 | 3569 | 3579 | 3584 | rBV2 | 164655 | 241545 | 1.37% | 0.242% |
| 76 | 12.633 | 3584 | 3590 | 3594 | rBV2 | 99106 | 115537 | 0.65% | 0.116% |
| 77 | 12.662 | 3595 | 3599 | 3608 | rVB | 141192 | 165268 | 0.94% | 0.166% |
| 78 | 12.730 | 3610 | 3620 | 3624 | rBV3 | 35691 | 69448 | 0.39% | 0.070% |
| 79 | 12.772 | 3624 | 3633 | 3647 | rVB | 652634 | 981099 | 5.56% | 0.984% |
| 80 | 12.842 | 3647 | 3655 | 3663 | rBV3 | 104444 | 137751 | 0.78% | 0.138% |
| 81 | 12.929 | 3663 | 3682 | 3700 | rBV2 | 1306458 | 2560943 | 14.51% | 2.568% |
| 82 | 13.048 | 3711 | 3719 | 3726 | rBV | 151972 | 213893 | 1.21% | 0.214% |
| 83 | 13.096 | 3727 | 3734 | 3744 | rVB3 | 89001 | 149678 | 0.85% | 0.150% |
| 84 | 13.215 | 3761 | 3771 | 3778 | rBV | 129678 | 204859 | 1.16% | 0.205% |
| 85 | 13.264 | 3778 | 3786 | 3794 | rVB | 164048 | 234427 | 1.33% | 0.235% |
| 86 | 13.318 | 3794 | 3803 | 3809 | rBV2 | 347756 | 535819 | 3.04% | 0.537% |
| 87 | 13.418 | 3828 | 3834 | 3839 | rVV | 102811 | 123453 | 0.70% | 0.124% |
| 88 | 13.450 | 3839 | 3844 | 3855 | rVB | 129013 | 179262 | 1.02% | 0.180% |
| 89 | 13.550 | 3866 | 3875 | 3885 | rVB | 397758 | 587796 | 3.33% | 0.589% |
| 90 | 13.595 | 3885 | 3889 | 3899 | rVB2 | 45828 | 65210 | 0.37% | 0.065% |
| 91 | 13.659 | 3900 | 3909 | 3917 | rBV5 | 59836 | 102867 | 0.58% | 0.103% |
| 92 | 13.756 | 3929 | 3939 | 3951 | rBV7 | 116468 | 266433 | 1.51% | 0.267% |
| 93 | 13.817 | 3954 | 3958 | 3967 | rVB2 | 72425 | 97361 | 0.55% | 0.098% |
| 94 | 13.958 | 3992 | 4002 | 4016 | rVB2 | 143870 | 237609 | 1.35% | 0.238% |
| 95 | 14.148 | 4049 | 4061 | 4073 | rBV5 | 131214 | 312436 | 1.77% | 0.313% |
| 96 | 14.283 | 4095 | 4103 | 4113 | rBV2 | 73287 | 115105 | 0.65% | 0.115% |
| 97 | 14.347 | 4114 | 4123 | 4135 | rVB3 | 73425 | 144753 | 0.82% | 0.145% |
| 98 | 14.482 | 4155 | 4165 | 4181 | rBV5 | 47081 | 101638 | 0.58% | 0.102% |
| 99 | 14.682 | 4214 | 4227 | 4238 | rBV | 188651 | 354049 | 2.01% | 0.355% |
| 100 | 14.868 | 4275 | 4285 | 4298 | rVV2 | 100072 | 176334 | 1.00% | 0.177% |

Sum of corrected areas: 99717226

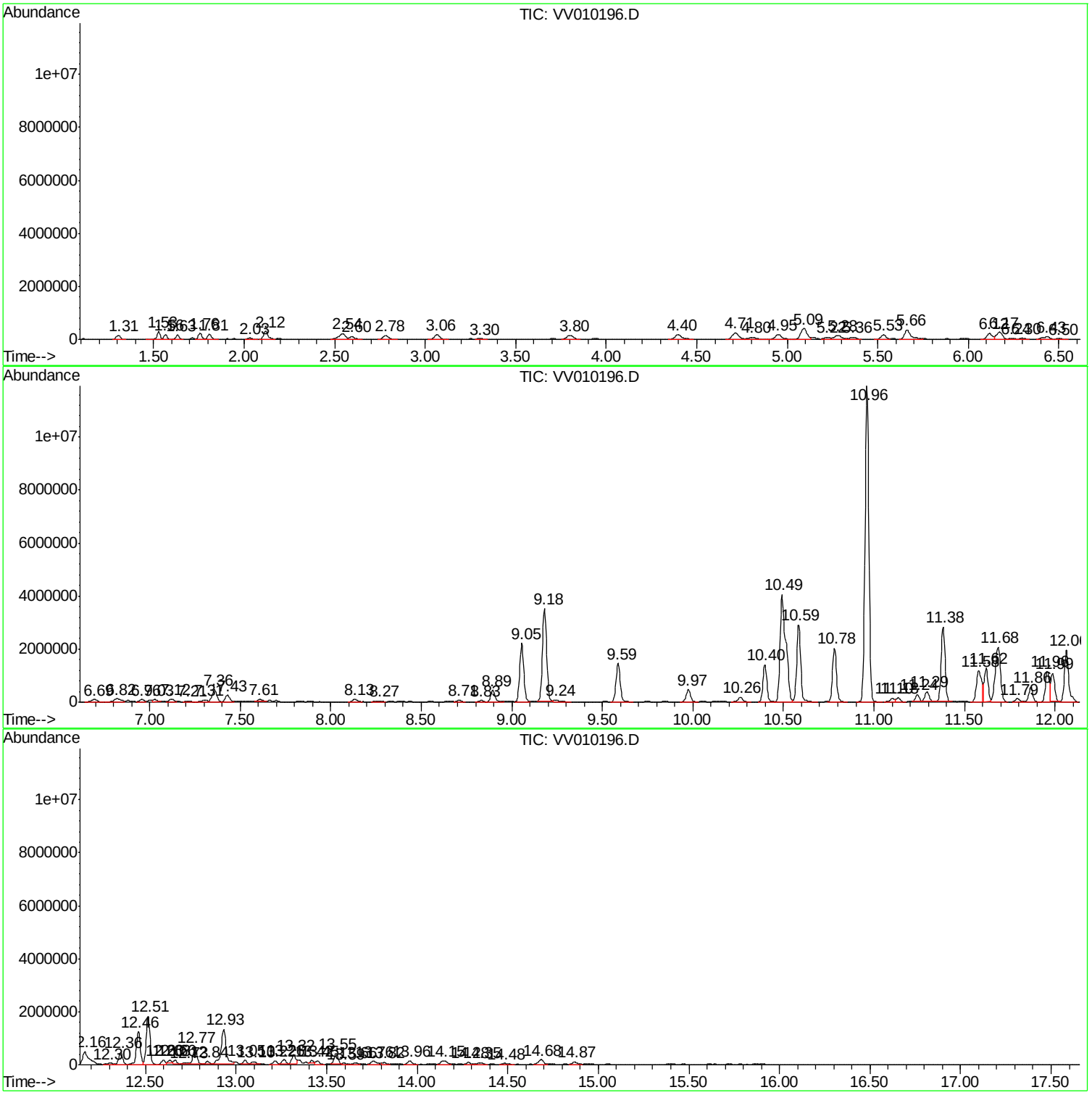
LSC Report - Integrated Chromatogram

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

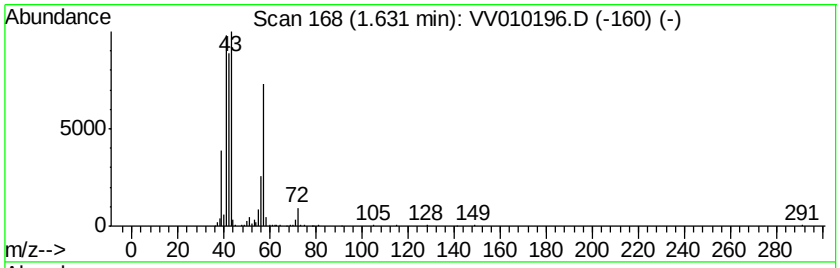
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

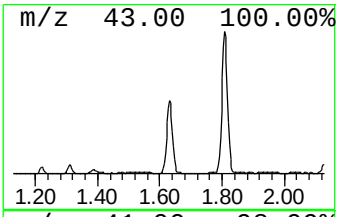
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

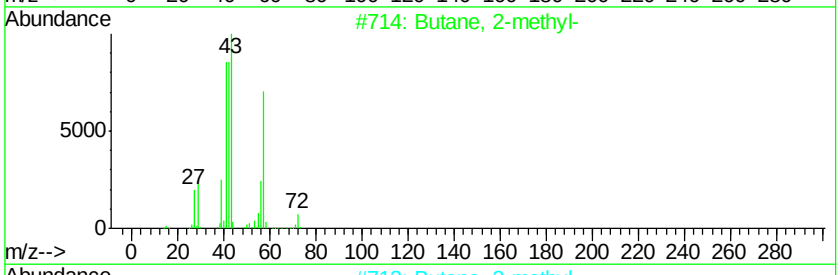
**********
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 53

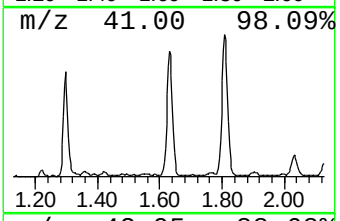
| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.63 | 5.56 ug/L | 199283 | 1,4-Difluorobenzene | 5.66 |

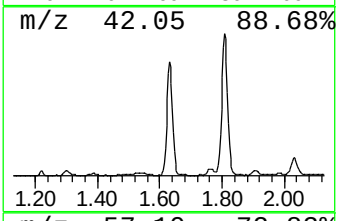
| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 81 |
| 2 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 64 |
| 3 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 58 |
| 4 | 3-Buten-1-ol | 72 | C4H8O | 000627-27-0 | 38 |
| 5 | Oxirane, trimethyl- | 86 | C5H10O | 005076-19-7 | 37 |

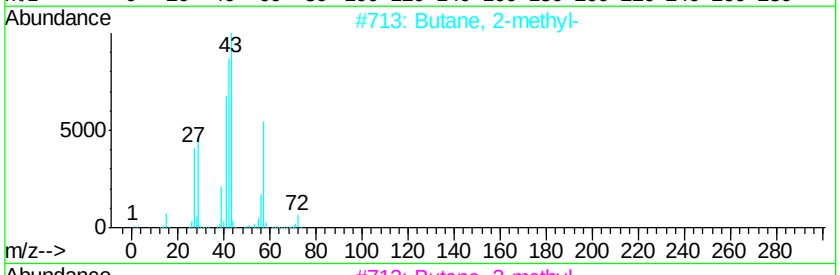


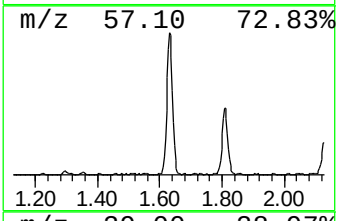



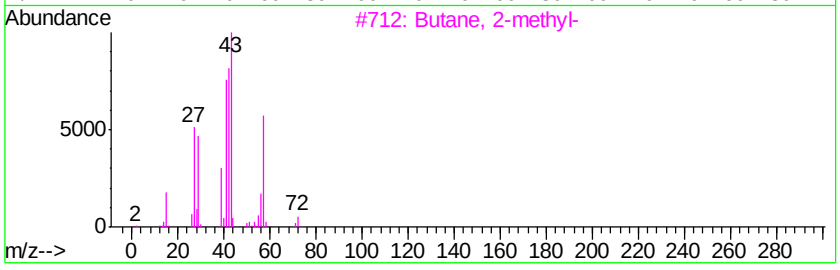



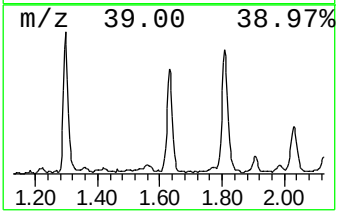



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Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

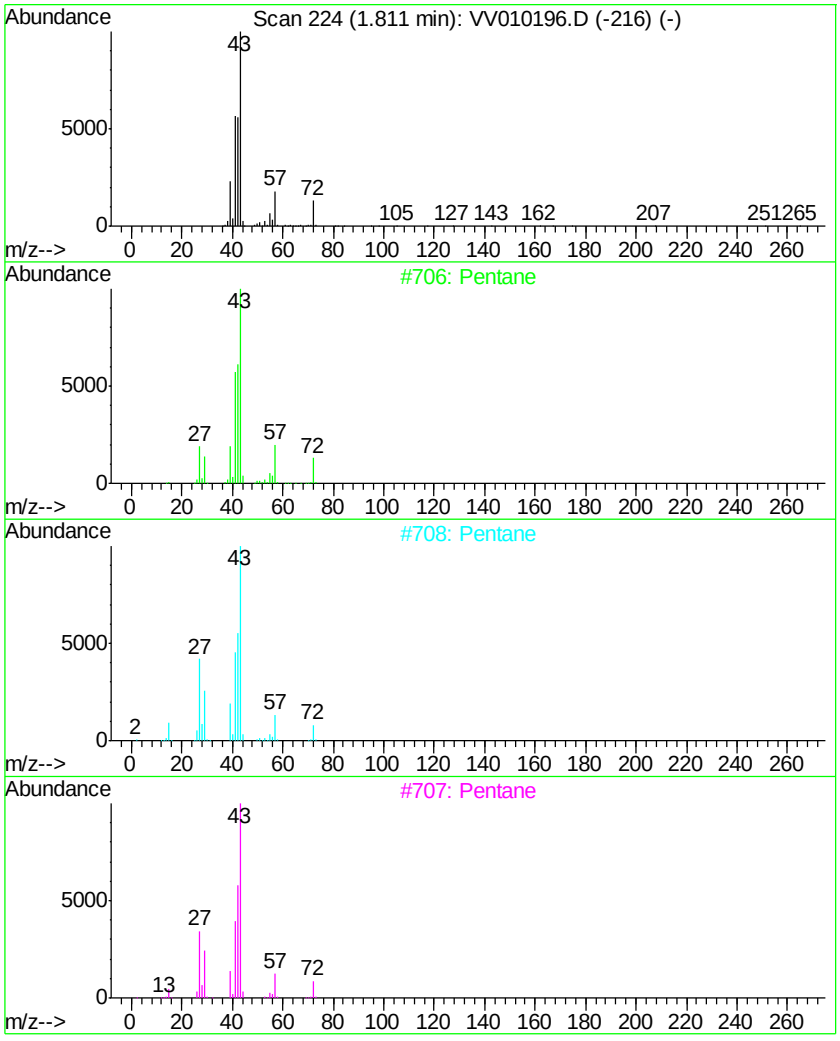
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

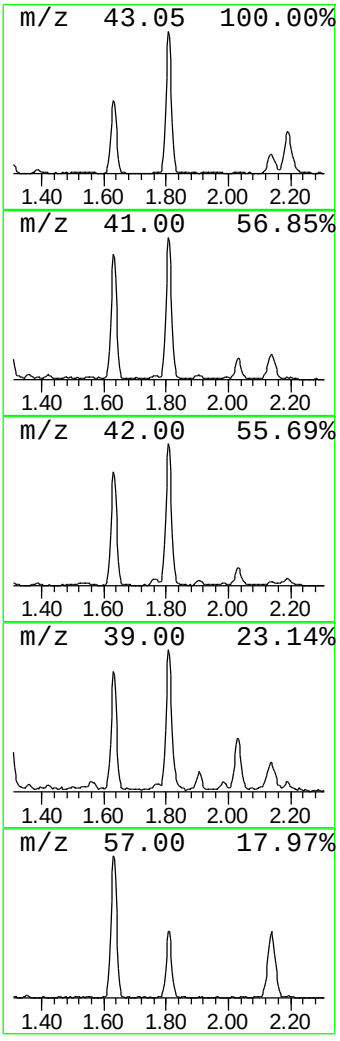
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 43

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.81 | 7.11 ug/L | 254616 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane | 72 | C5H12 | 000109-66-0 | 90 |
| 2 | Pentane | 72 | C5H12 | 000109-66-0 | 86 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 80 |
| 4 | Pentane | 72 | C5H12 | 000109-66-0 | 59 |
| 5 | Oxirane, ethyl- | 72 | C4H8O | 000106-88-7 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

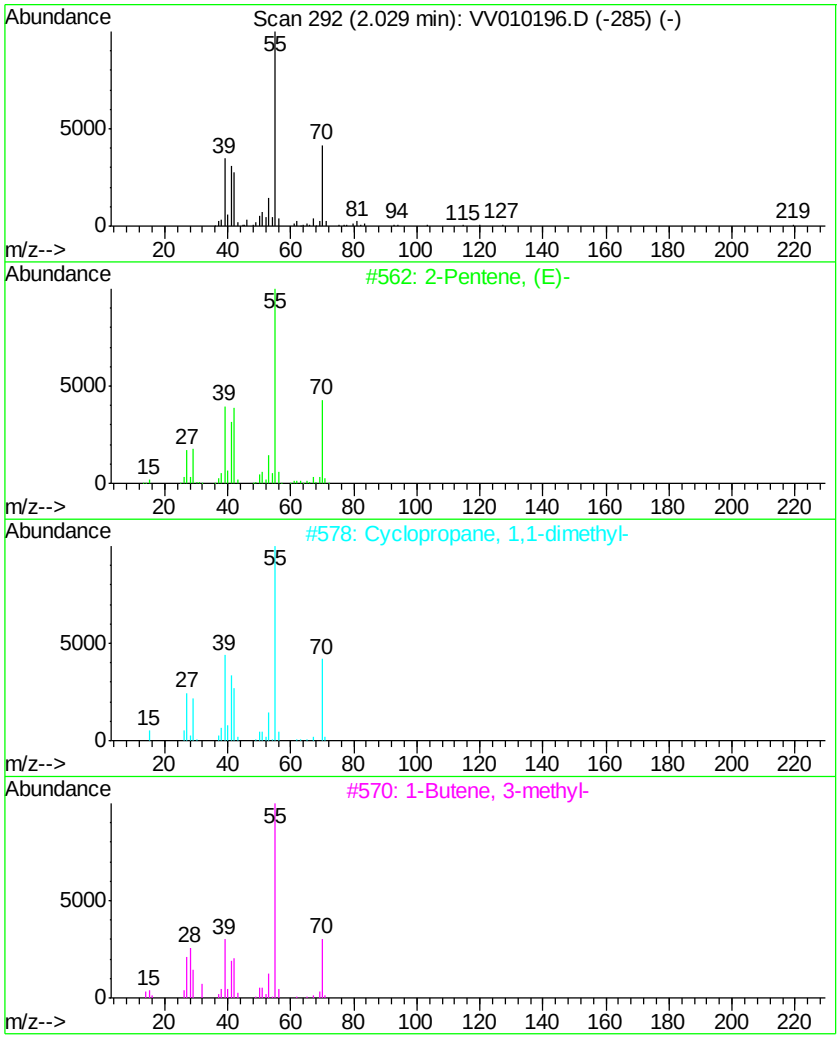
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

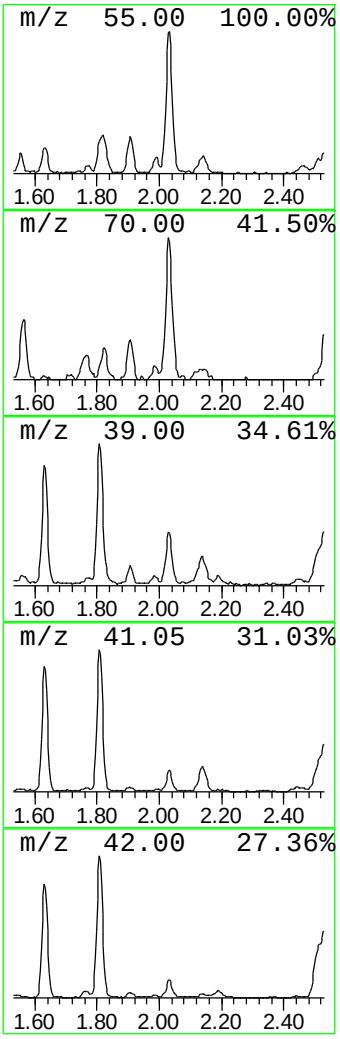
**********

Peak Number 3 (DEL) Alkane: Cyclic2.03 Concentration Rank 74

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.03 | 1.98 ug/L | 70770 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentene, (E)- | 70 | C5H10 | 000646-04-8 | 81 |
| 2 | Cyclopropane, 1,1-dimethyl- | 70 | C5H10 | 001630-94-0 | 80 |
| 3 | 1-Butene, 3-methyl- | 70 | C5H10 | 000563-45-1 | 80 |
| 4 | Cyclopropane, 1,1-dimethyl- | 70 | C5H10 | 001630-94-0 | 80 |
| 5 | 2-Butene, 2-methyl- | 70 | C5H10 | 000513-35-9 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

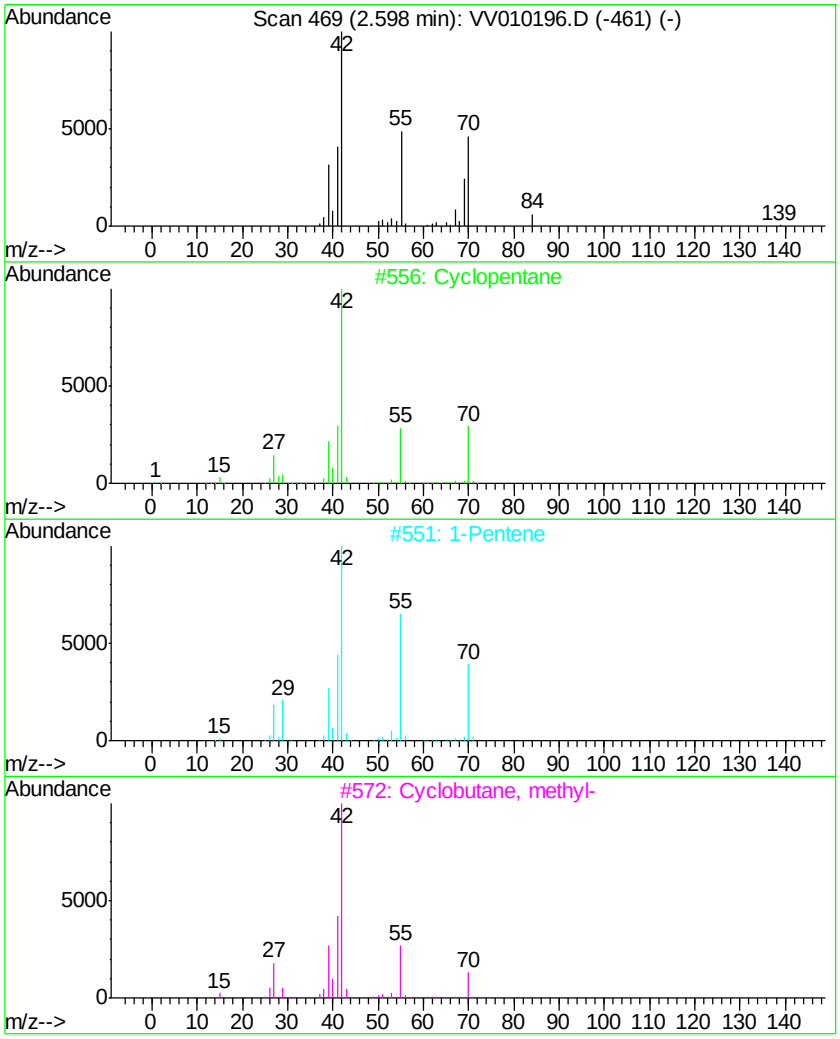
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

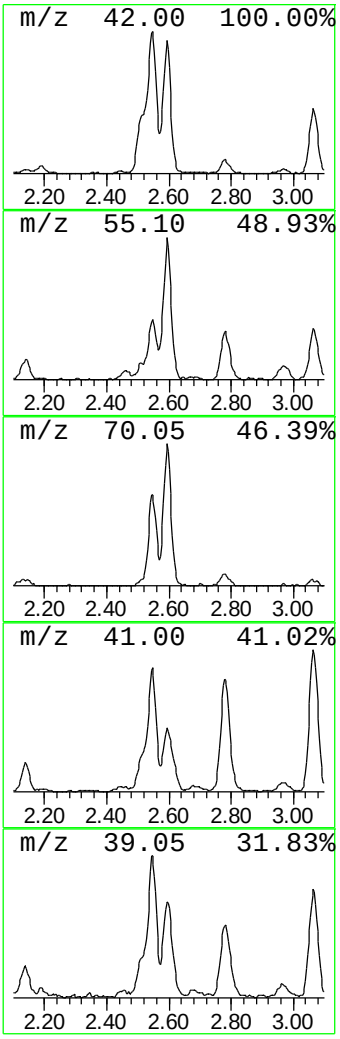
**********

Peak Number 4 (DEL) Alkane: Cyclic2.60 Concentration Rank 49

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.60 | 6.02 ug/L | 215797 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane | 70 | C5H10 | 000287-92-3 | 86 |
| 2 | 1-Pentene | 70 | C5H10 | 000109-67-1 | 78 |
| 3 | Cyclobutane, methyl- | 70 | C5H10 | 000598-61-8 | 78 |
| 4 | 1-Pentene | 70 | C5H10 | 000109-67-1 | 64 |
| 5 | Cyclopropane, ethyl- | 70 | C5H10 | 001191-96-4 | 9 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

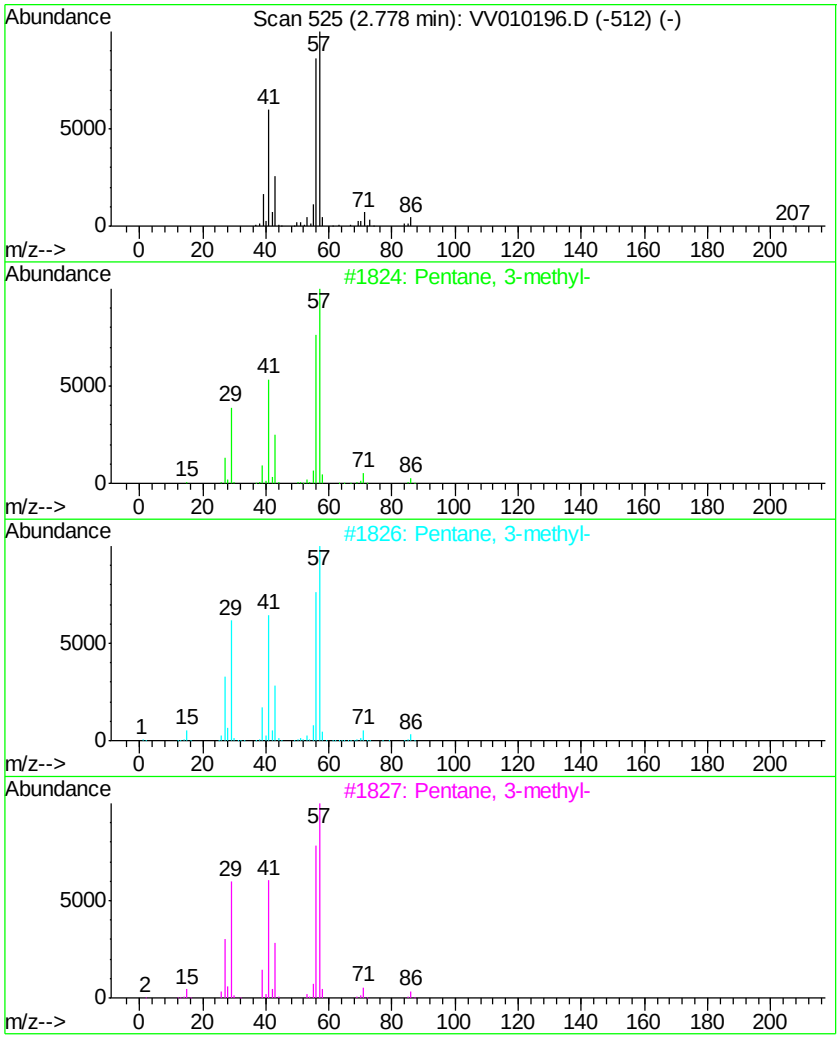
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

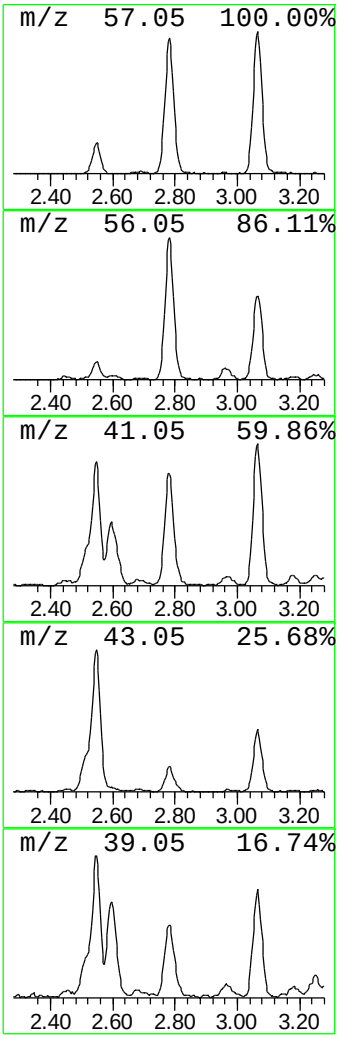
**********

Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 37

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.78 | 8.66 ug/L | 310247 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 87 |
| 2 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 86 |
| 3 | Pentane, 3-methyl- | 86 | C6H14 | 000096-14-0 | 86 |
| 4 | Butane, 2,2,3-trimethyl- | 100 | C7H16 | 000464-06-2 | 78 |
| 5 | Decane, 2,2,3-trimethyl- | 184 | C13H28 | 062338-09-4 | 56 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

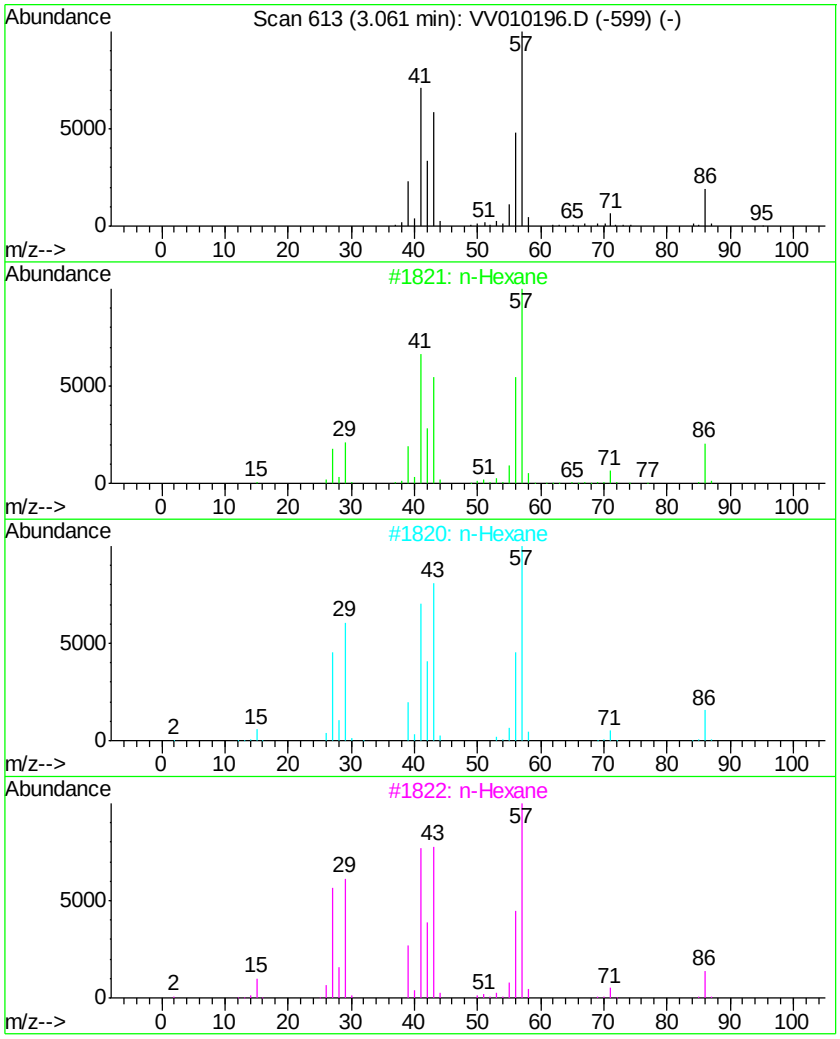
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

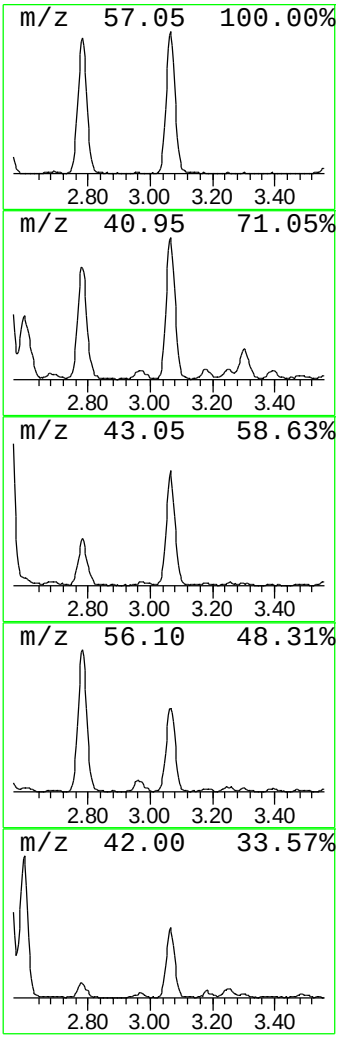
**********

Peak Number 6 (DEL) Alkane: Straight-Chai... Concentration Rank 28

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.06 | 10.08 ug/L | 361244 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | n-Hexane | 86 | C6H14 | 000110-54-3 | 91 |
| 2 | n-Hexane | 86 | C6H14 | 000110-54-3 | 72 |
| 3 | n-Hexane | 86 | C6H14 | 000110-54-3 | 72 |
| 4 | Pentane, 2,2,3,4-tetramethyl- | 128 | C9H20 | 001186-53-4 | 47 |
| 5 | Hexane, 2,2,5,5-tetramethyl- | 142 | C10H22 | 001071-81-4 | 38 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

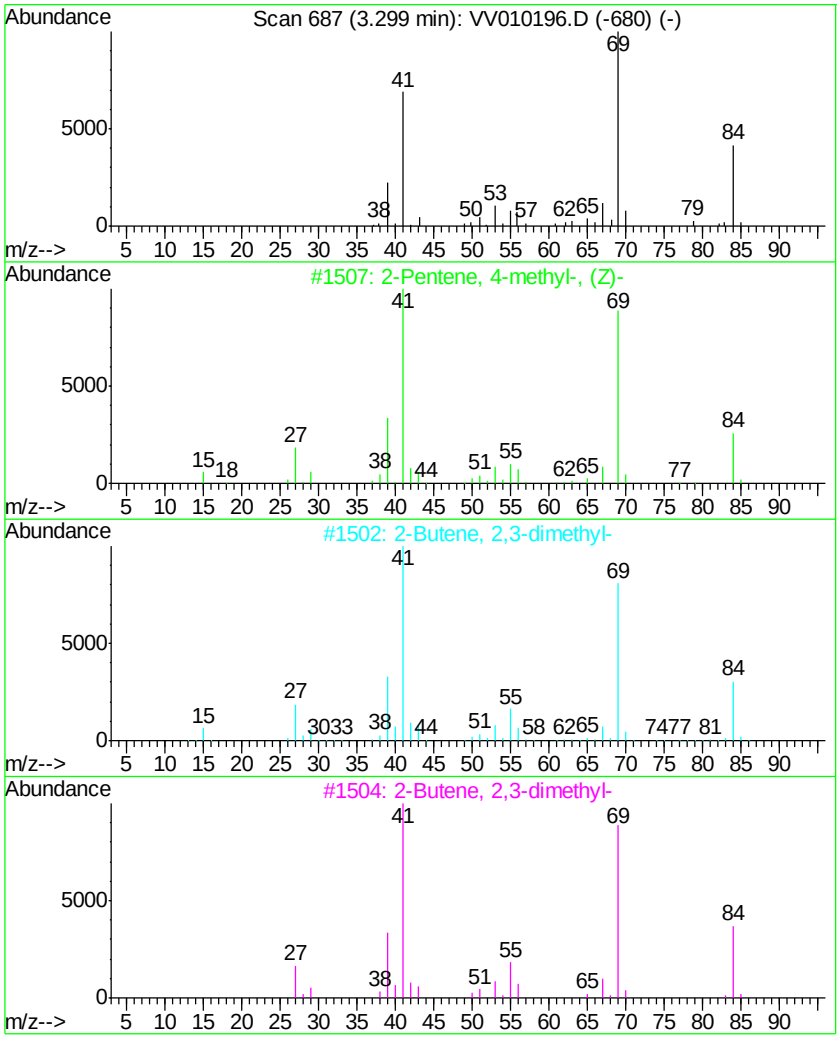
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

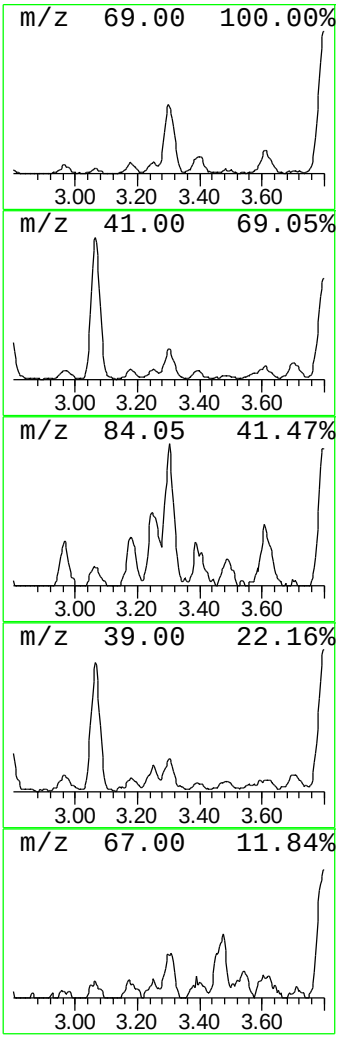
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 (DEL) Alkane: Cyclic3.30 Concentration Rank 76

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.30 | 1.85 ug/L | 66408 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Pentene, 4-methyl-, (Z)- | 84 | C6H12 | 000691-38-3 | 86 |
| 2 | 2-Butene, 2,3-dimethyl- | 84 | C6H12 | 000563-79-1 | 83 |
| 3 | 2-Butene, 2,3-dimethyl- | 84 | C6H12 | 000563-79-1 | 80 |
| 4 | 2-Pentene, 3-methyl-, (Z)- | 84 | C6H12 | 000922-62-3 | 78 |
| 5 | 2-Pentene, 2-methyl- | 84 | C6H12 | 000625-27-4 | 78 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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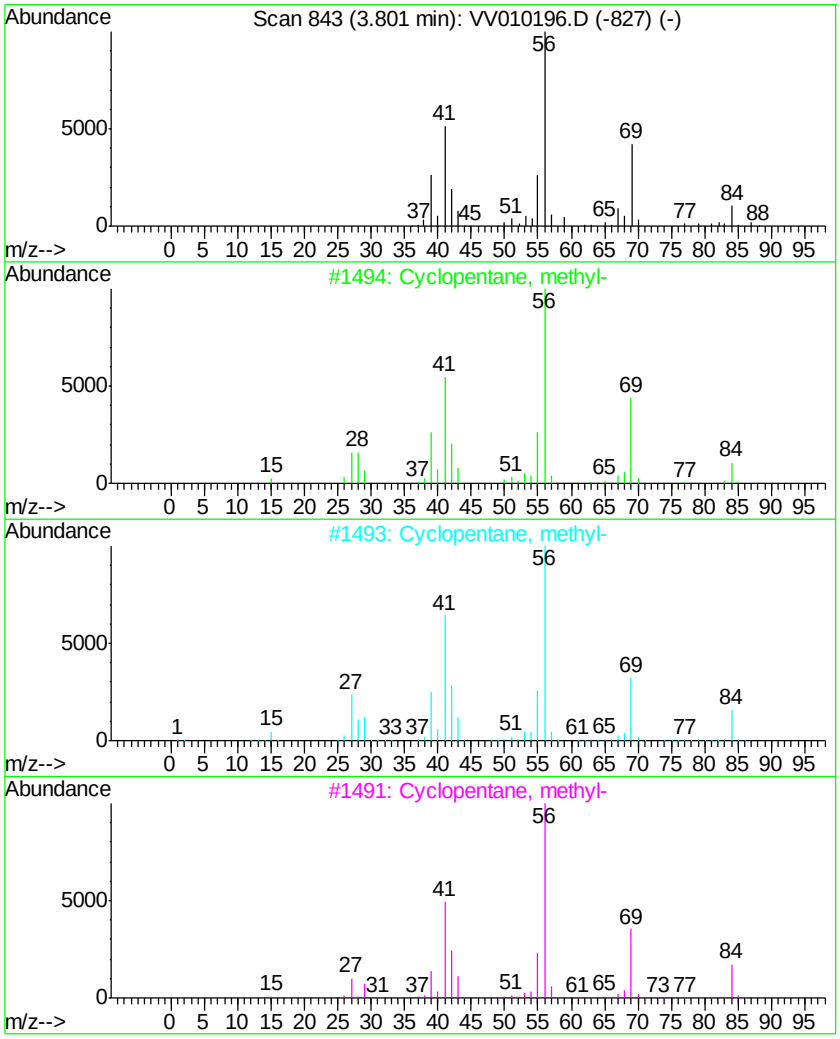
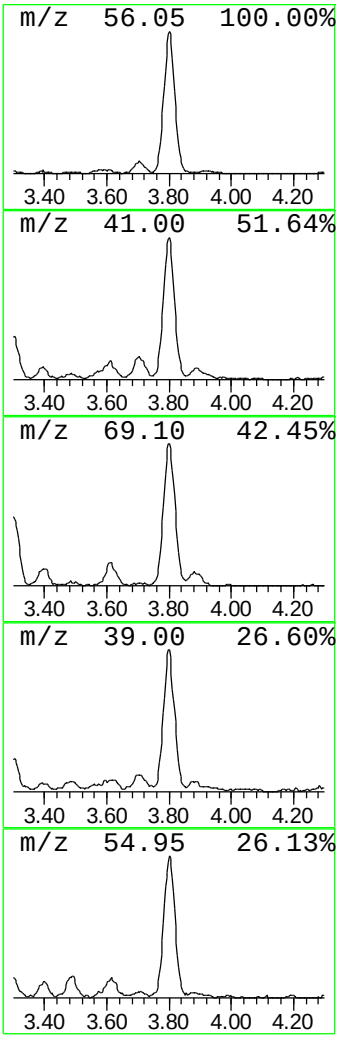
Peak Number 8 (DEL) Alkane: Cyclic3.80 Concentration Rank 26

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.80 | 10.57 ug/L | 378811 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 91 |
| 2 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 87 |
| 3 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 78 |
| 4 | Formic acid, hexyl ester | 130 | C7H14O2 | 000629-33-4 | 72 |
| 5 | Cyclohexane | 84 | C6H12 | 000110-82-7 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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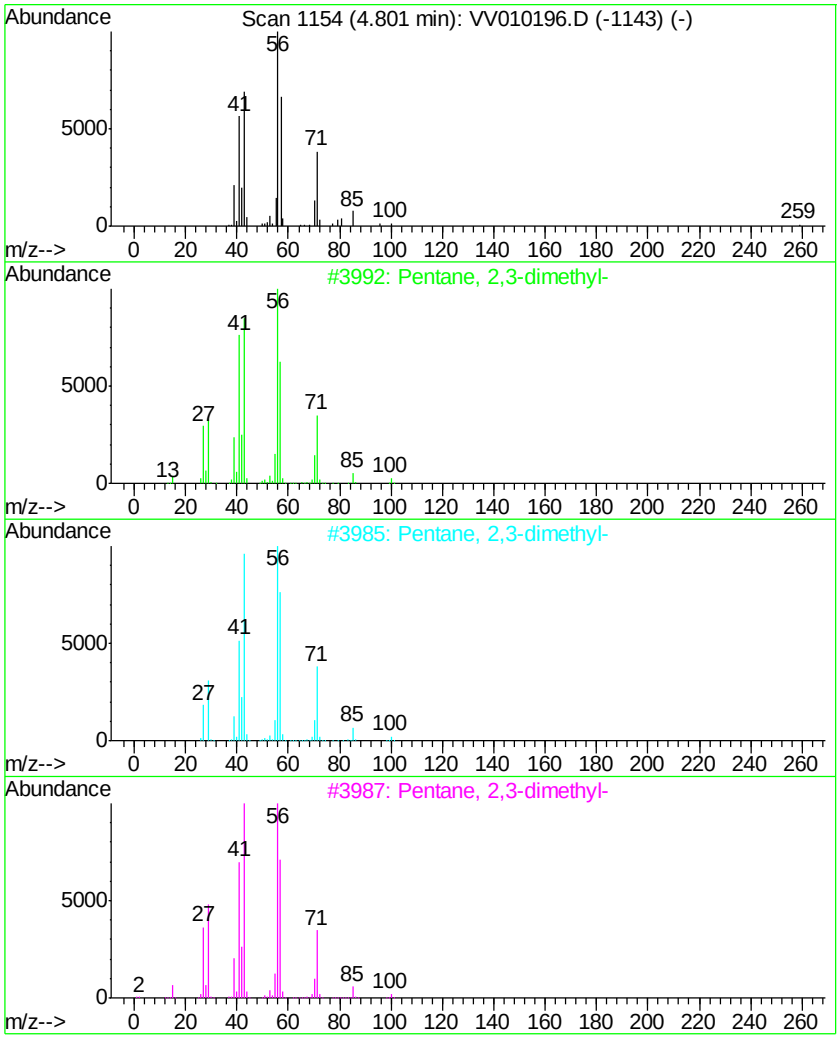
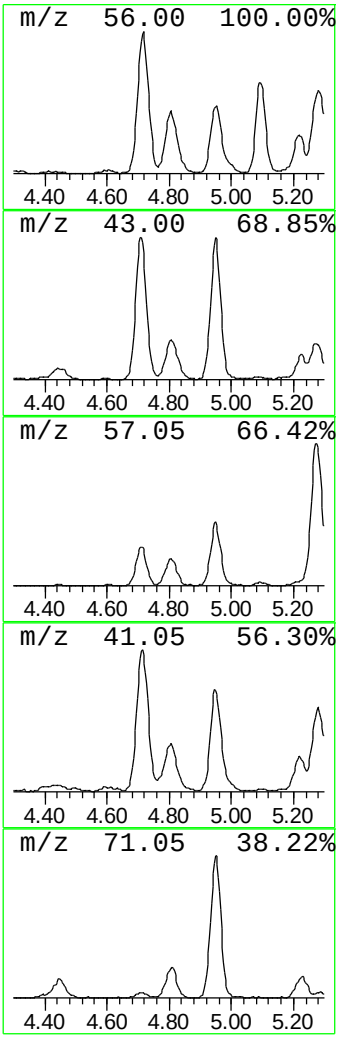
Peak Number 9 (DEL) Alkane: Straight-Chai... Concentration Rank 47

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.80 | 6.20 ug/L | 221944 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3-dimethyl- | 100 | C7H16 | 000565-59-3 | 94 |
| 2 | Pentane, 2,3-dimethyl- | 100 | C7H16 | 000565-59-3 | 91 |
| 3 | Pentane, 2,3-dimethyl- | 100 | C7H16 | 000565-59-3 | 90 |
| 4 | Pentane, 2,3-dimethyl- | 100 | C7H16 | 000565-59-3 | 83 |
| 5 | Hexane, 2,2,4-trimethyl- | 128 | C9H20 | 016747-26-5 | 45 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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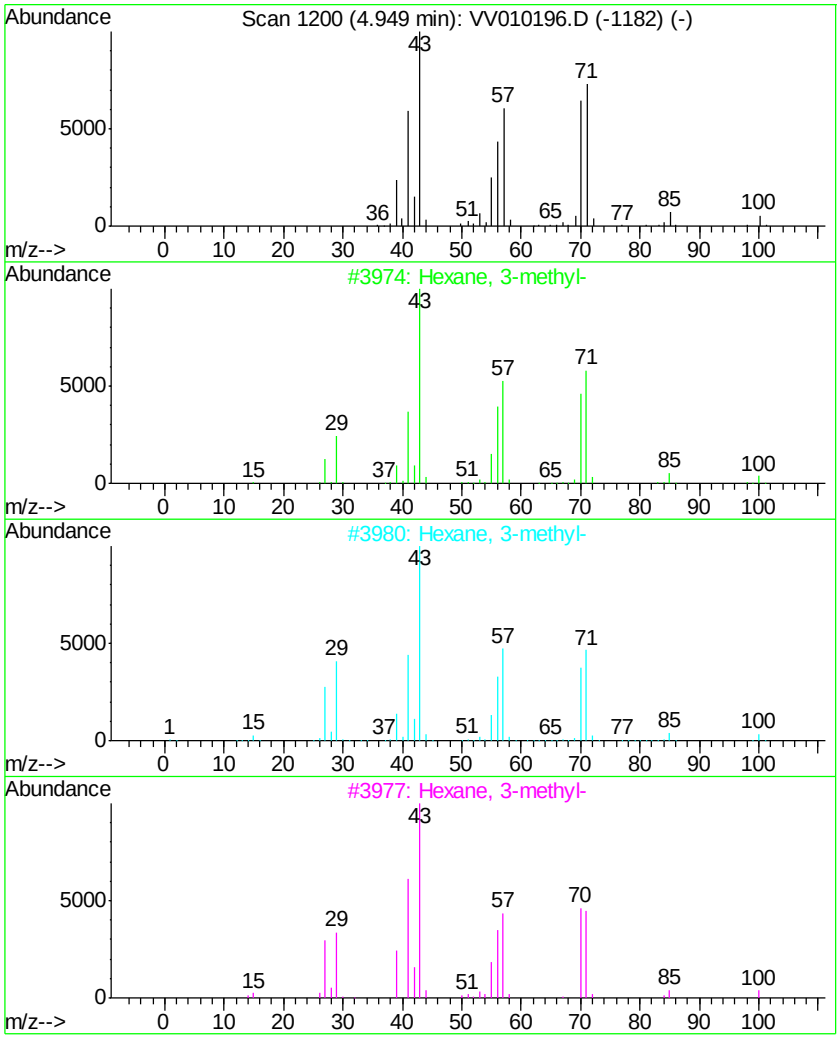
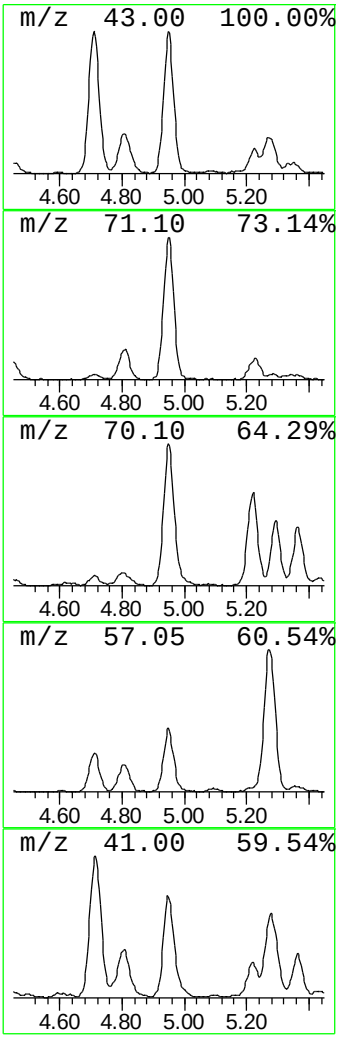
Peak Number 10 (DEL) Alkane: Straight-Chai... Concentration Rank 23

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.95 | 13.38 ug/L | 479375 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 91 |
| 2 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 90 |
| 3 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 83 |
| 4 | Heptane | 100 | C7H16 | 000142-82-5 | 72 |
| 5 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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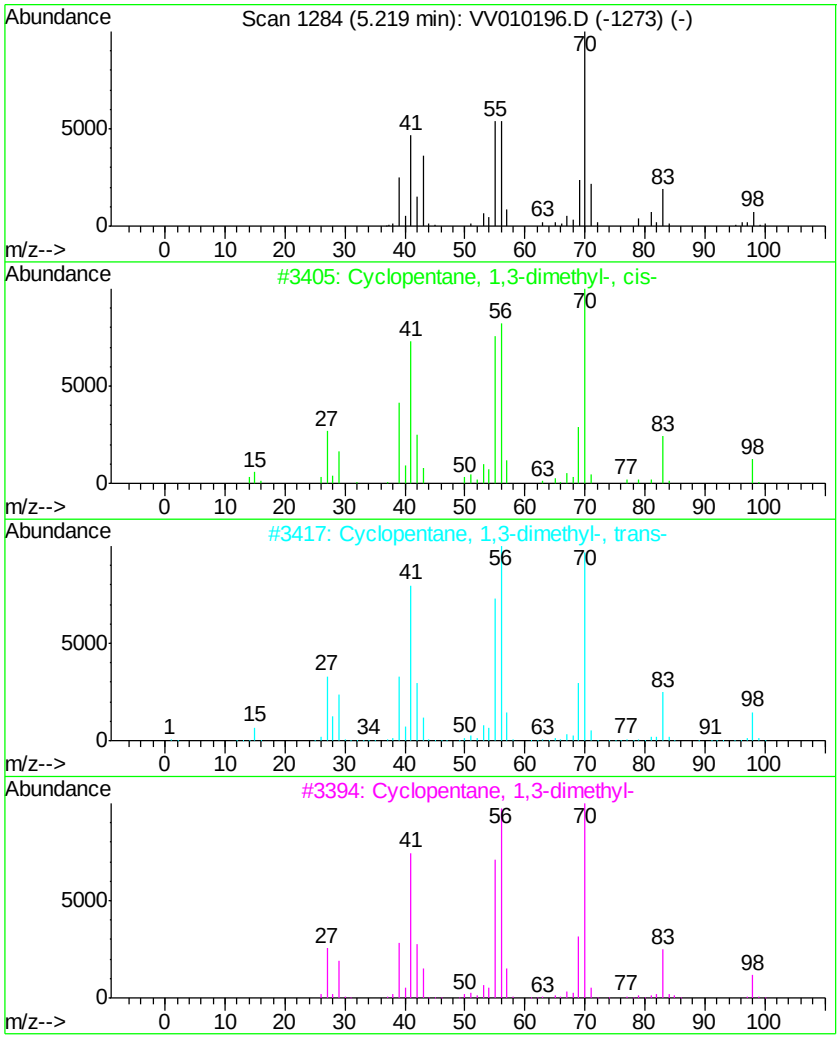
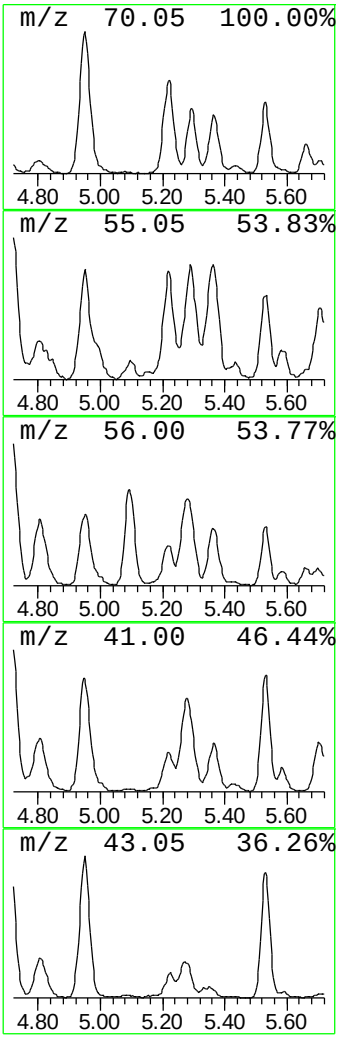
Peak Number 11 (DEL) Alkane: Cyclic5.22 Concentration Rank 63

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.22 | 3.79 ug/L | 135791 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,3-dimethyl-, cis- | 98 | C7H14 | 002532-58-3 | 91 |
| 2 | Cyclopentane, 1,3-dimethyl-, trans- | 98 | C7H14 | 001759-58-6 | 64 |
| 3 | Cyclopentane, 1,3-dimethyl- | 98 | C7H14 | 002453-00-1 | 64 |
| 4 | 1-Heptene, 5-methyl- | 112 | C8H16 | 013151-04-7 | 53 |
| 5 | Cyclopentane, 1,2-dimethyl-, cis- | 98 | C7H14 | 001192-18-3 | 53 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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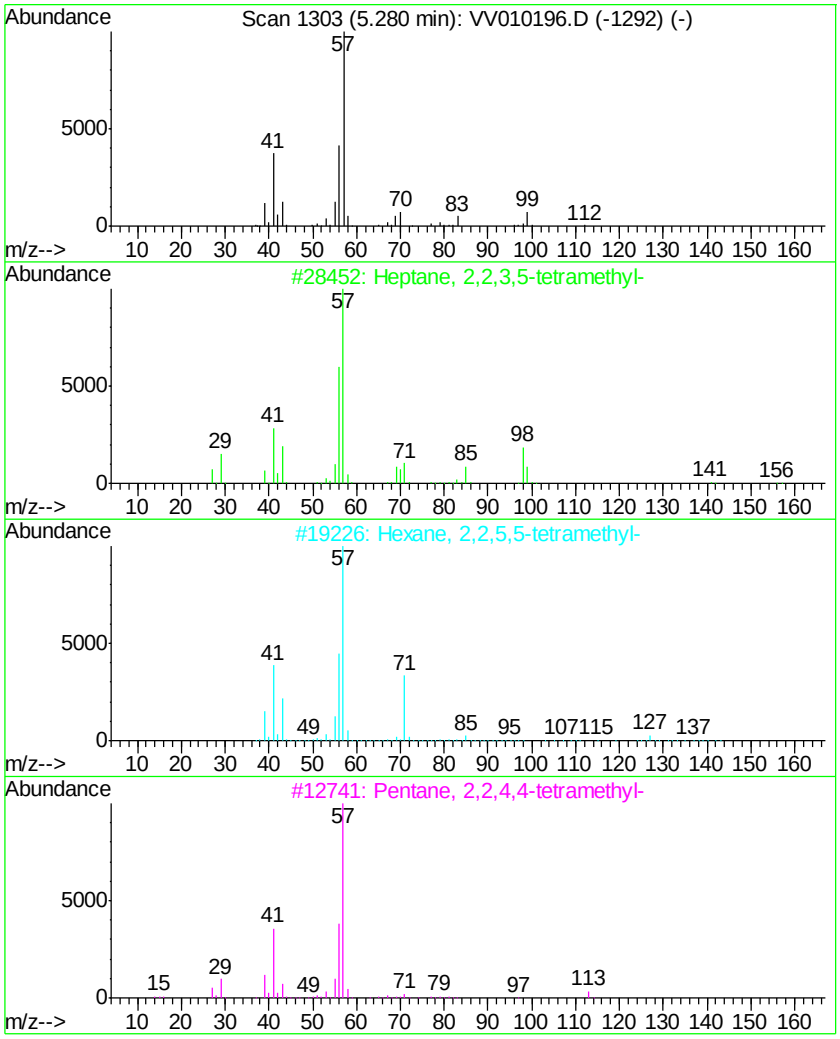
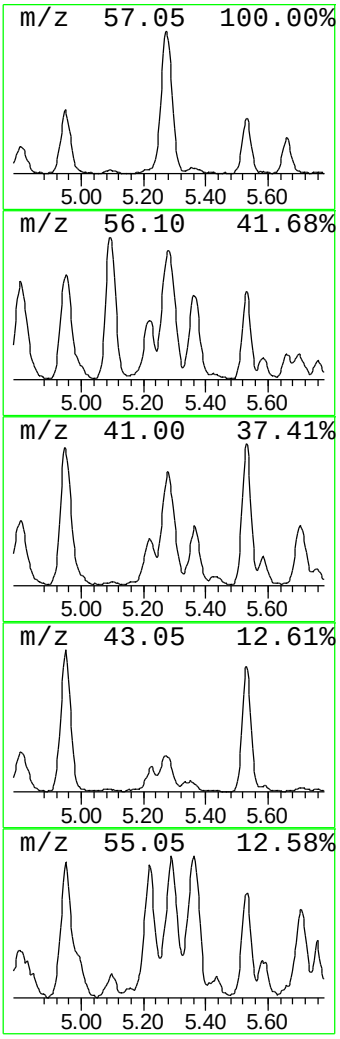
Peak Number 12 (DEL) Alkane: Straight-Chai... Concentration Rank 34

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.28 | 9.59 ug/L | 343521 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,2,3,5-tetramethyl- | 156 | C11H24 | 061868-42-6 | 64 |
| 2 | Hexane, 2,2,5,5-tetramethyl- | 142 | C10H22 | 001071-81-4 | 59 |
| 3 | Pentane, 2,2,4,4-tetramethyl- | 128 | C9H20 | 001070-87-7 | 59 |
| 4 | Hexane, 2,2-dimethyl- | 114 | C8H18 | 000590-73-8 | 59 |
| 5 | Butane, 2,2,3,3-tetramethyl- | 114 | C8H18 | 000594-82-1 | 56 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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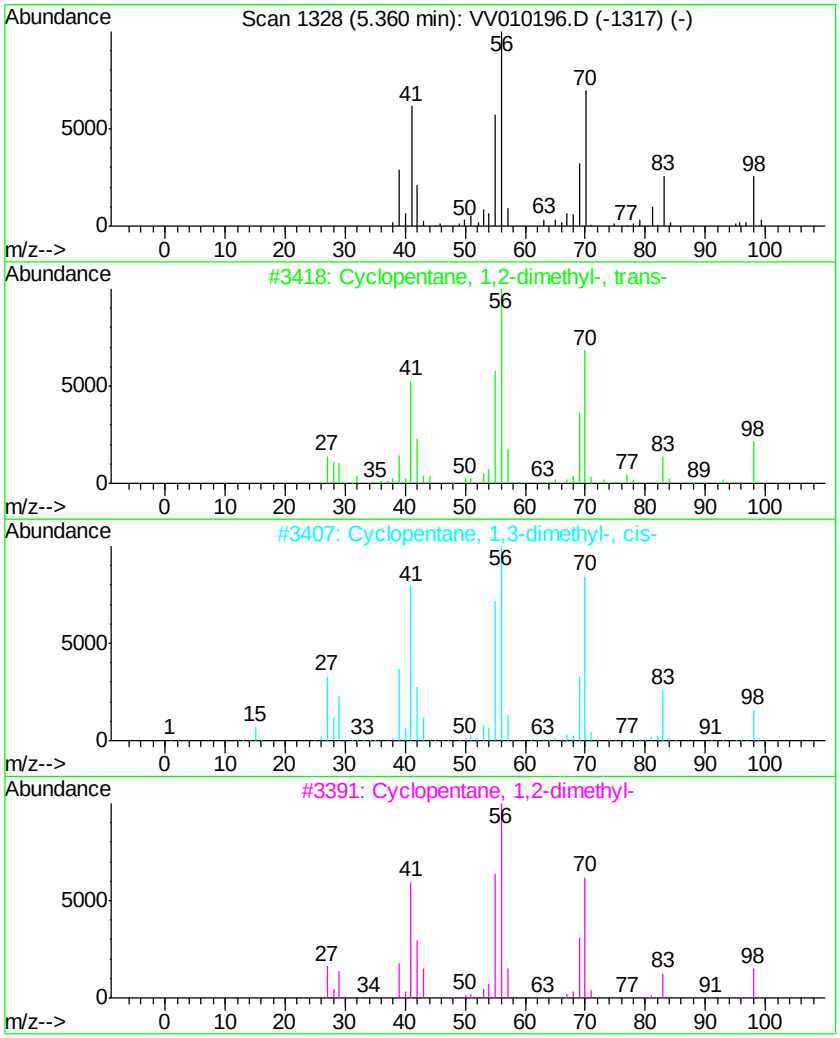
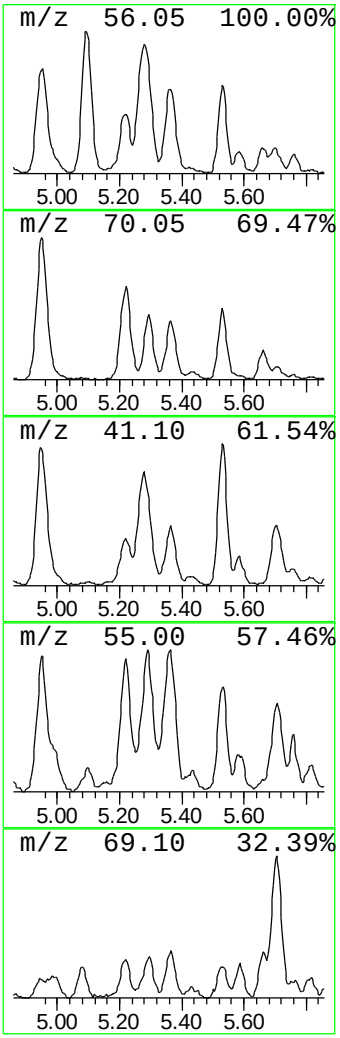
Peak Number 13 (DEL) Alkane: Cyclic5.36 Concentration Rank 55

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.36 | 5.09 ug/L | 182333 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,2-dimethyl-, trans- | 98 | C7H14 | 000822-50-4 | 87 |
| 2 | Cyclopentane, 1,3-dimethyl-, cis- | 98 | C7H14 | 002532-58-3 | 86 |
| 3 | Cyclopentane, 1,2-dimethyl- | 98 | C7H14 | 002452-99-5 | 80 |
| 4 | Cyclopentane, 1,2-dimethyl-, trans- | 98 | C7H14 | 000822-50-4 | 74 |
| 5 | Isopropylcyclobutane | 98 | C7H14 | 000872-56-0 | 74 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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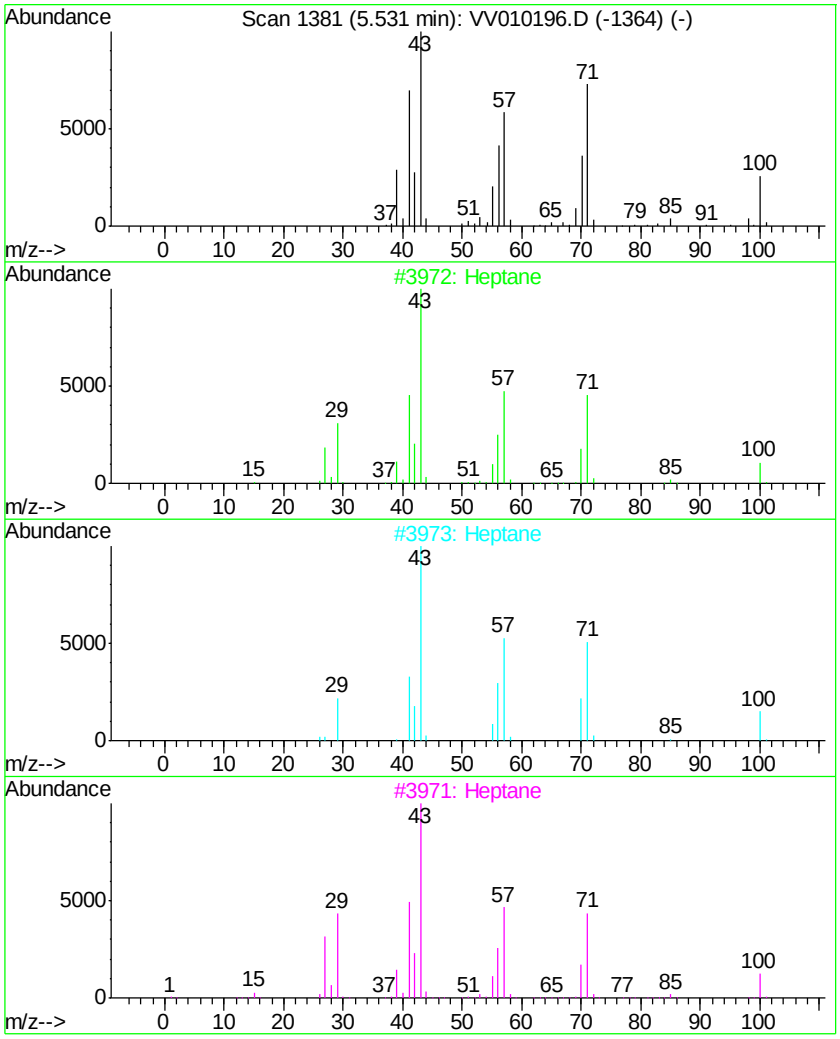
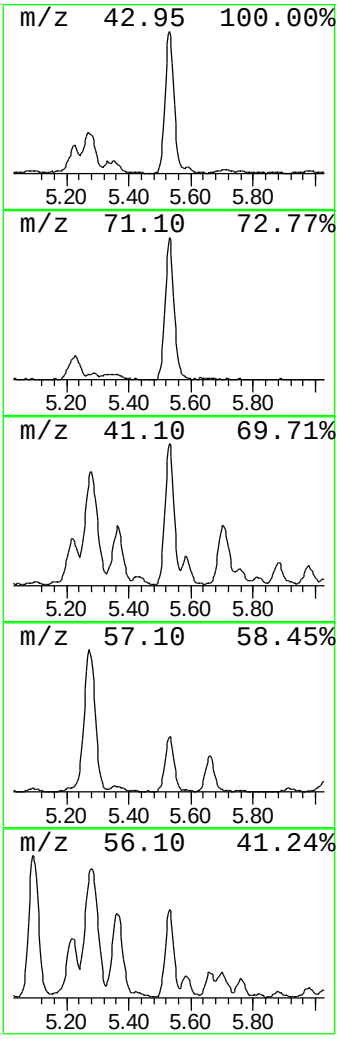
Peak Number 14 (DEL) Alkane: Straight-Chai... Concentration Rank 33

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.53 | 9.73 ug/L | 348553 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane | 100 | C7H16 | 000142-82-5 | 64 |
| 2 | Heptane | 100 | C7H16 | 000142-82-5 | 58 |
| 3 | Heptane | 100 | C7H16 | 000142-82-5 | 58 |
| 4 | Hexane, 3-methyl- | 100 | C7H16 | 000589-34-4 | 50 |
| 5 | Butane, 2,2-dimethyl- | 86 | C6H14 | 000075-83-2 | 38 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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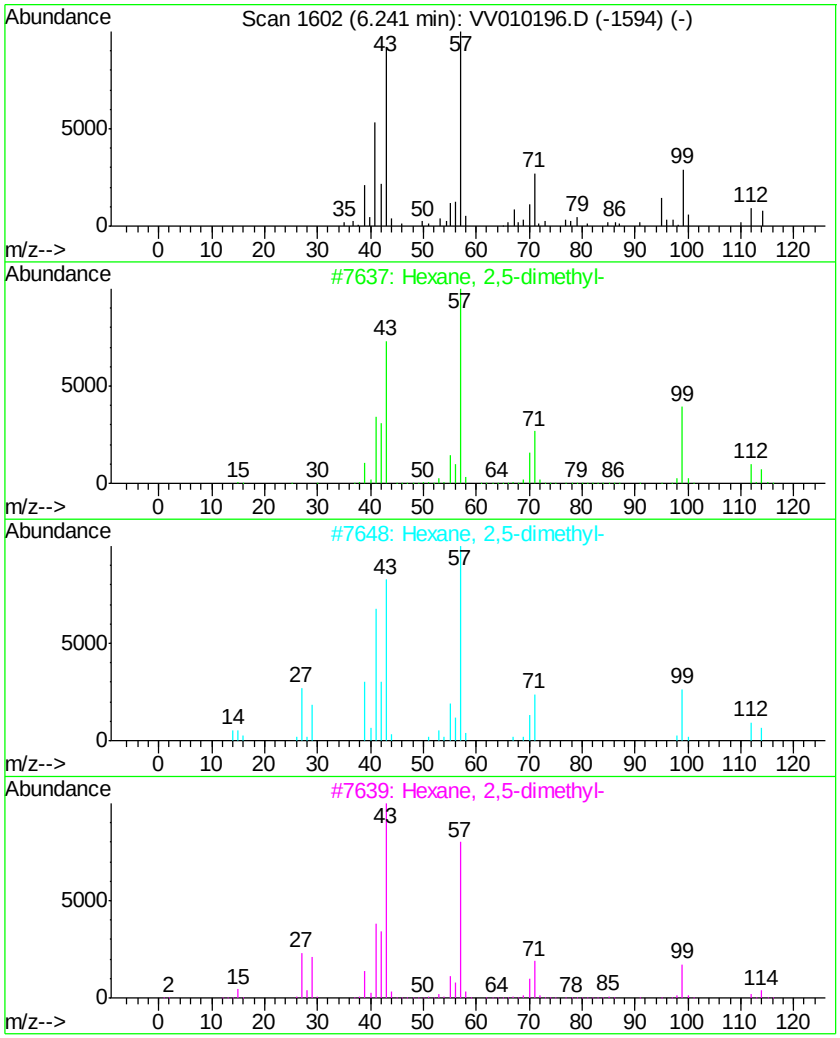
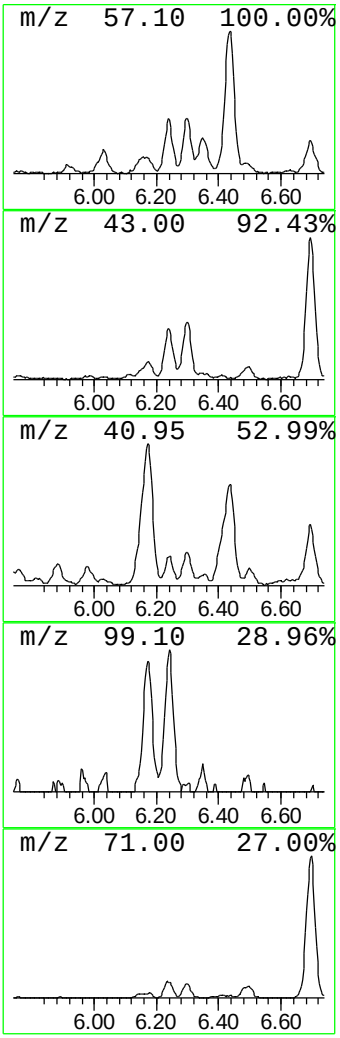
Peak Number 15 (DEL) Alkane: Straight-Chai... Concentration Rank 73

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.24 | 2.07 ug/L | 74181 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 64 |
| 2 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 52 |
| 3 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 52 |
| 4 | 1-Pyrrolidinecarboxaldehyde | 99 | C5H9NO | 003760-54-1 | 47 |
| 5 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 43 |



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Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

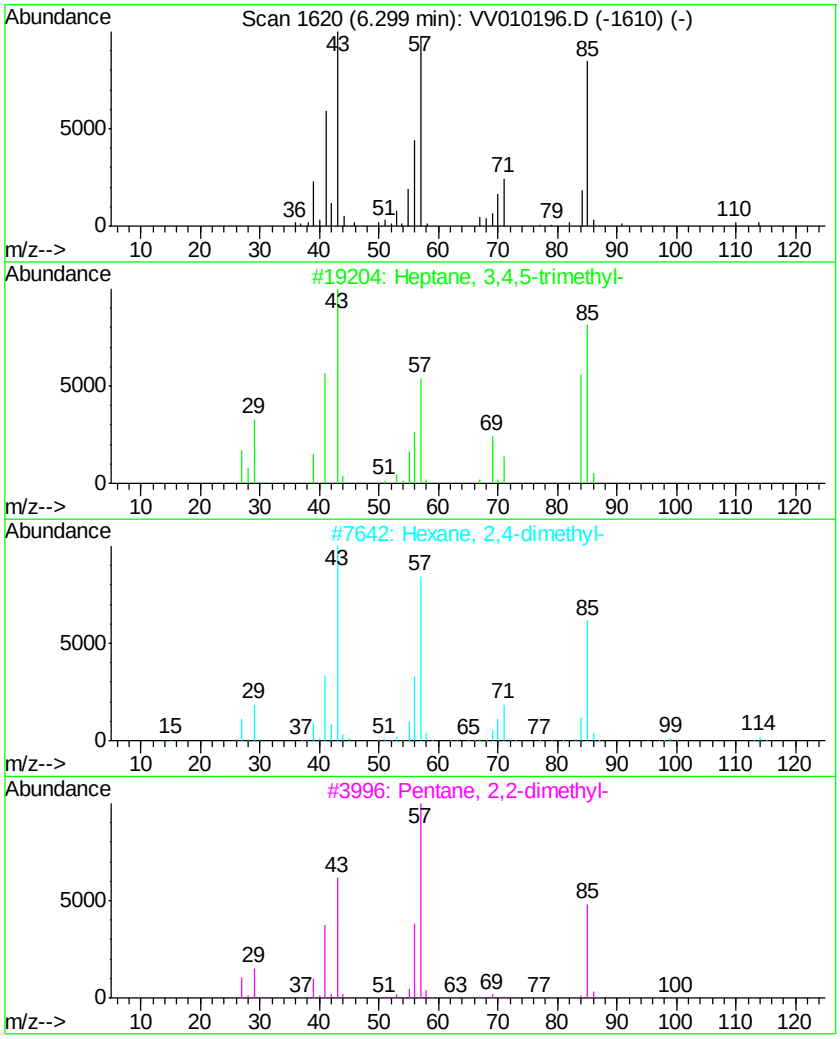
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

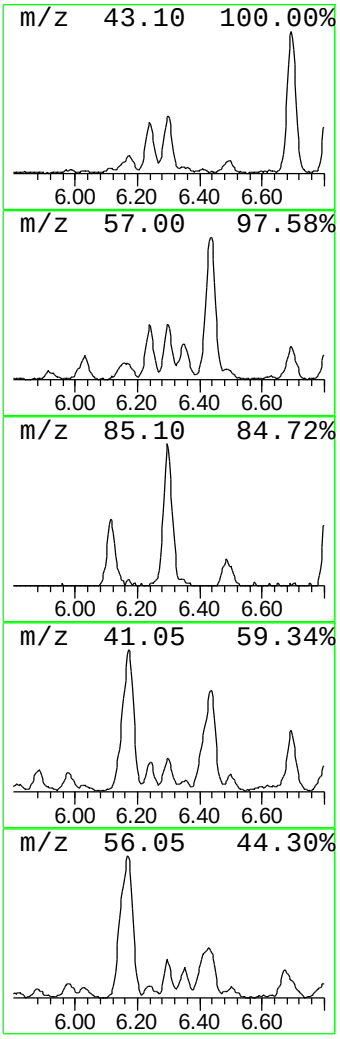
**********

Peak Number 16 (DEL) Alkane: Straight-Chai... Concentration Rank 71

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.30 | 2.38 ug/L | 85358 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3,4,5-trimethyl- | 142 | C10H22 | 020278-89-1 | 78 |
| 2 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 72 |
| 3 | Pentane, 2,2-dimethyl- | 100 | C7H16 | 000590-35-2 | 59 |
| 4 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 53 |
| 5 | Pentane, 2,2-dimethyl- | 100 | C7H16 | 000590-35-2 | 53 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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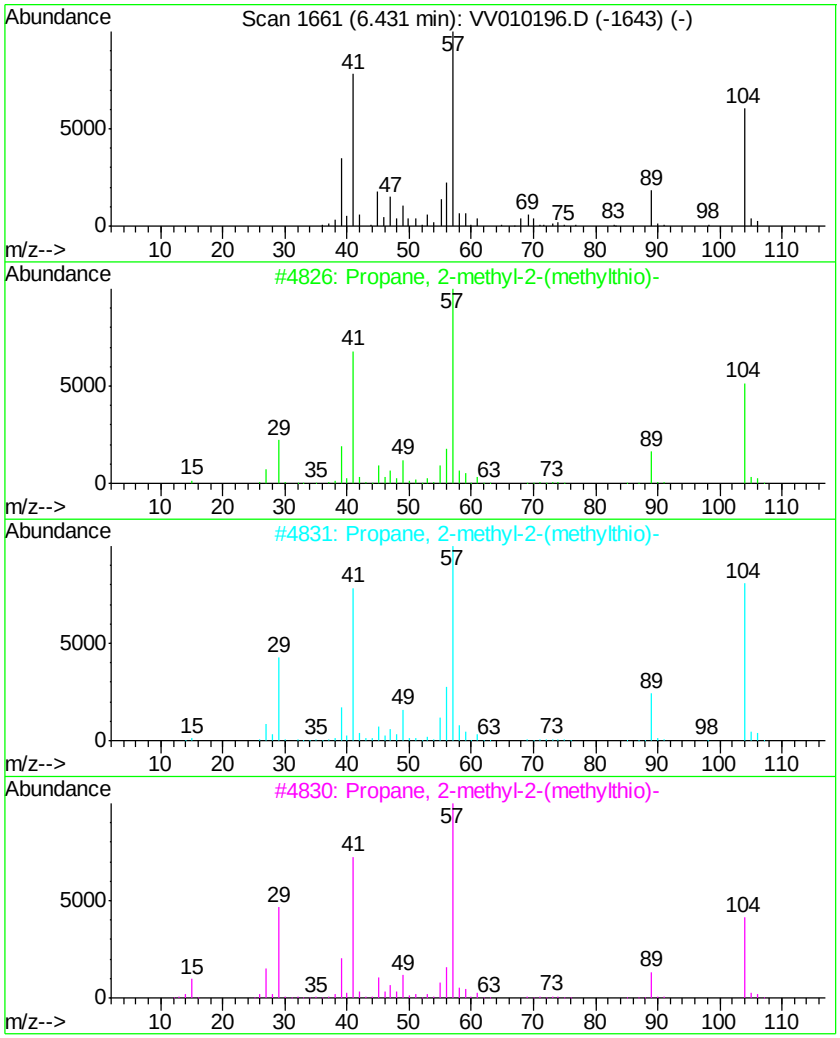
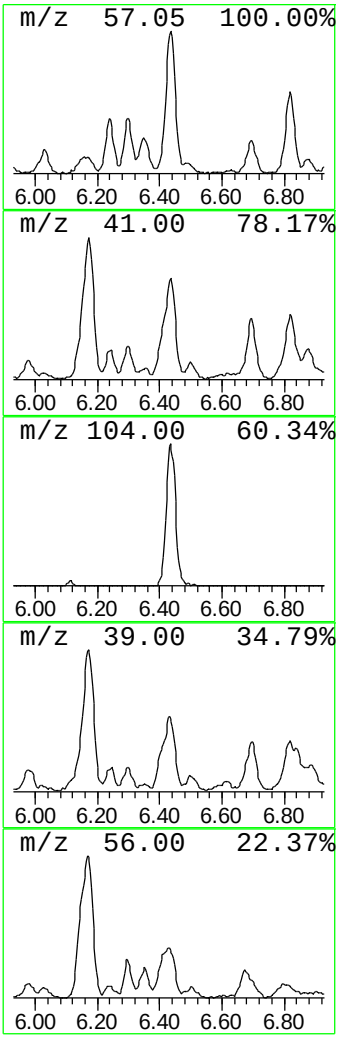
Peak Number 17 Propane, 2-methyl-2-(methyl... Concentration Rank 40

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.43 | 7.46 ug/L | 267195 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Propane, 2-methyl-2-(methylthio)- | 104 | C5H12S | 006163-64-0 | 95 |
| 2 | Propane, 2-methyl-2-(methylthio)- | 104 | C5H12S | 006163-64-0 | 93 |
| 3 | Propane, 2-methyl-2-(methylthio)- | 104 | C5H12S | 006163-64-0 | 91 |
| 4 | Propane, 2-methyl-2-(methylthio)- | 104 | C5H12S | 006163-64-0 | 46 |
| 5 | 1-Propanethiol, 2,2-dimethyl- | 104 | C5H12S | 001679-08-9 | 37 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

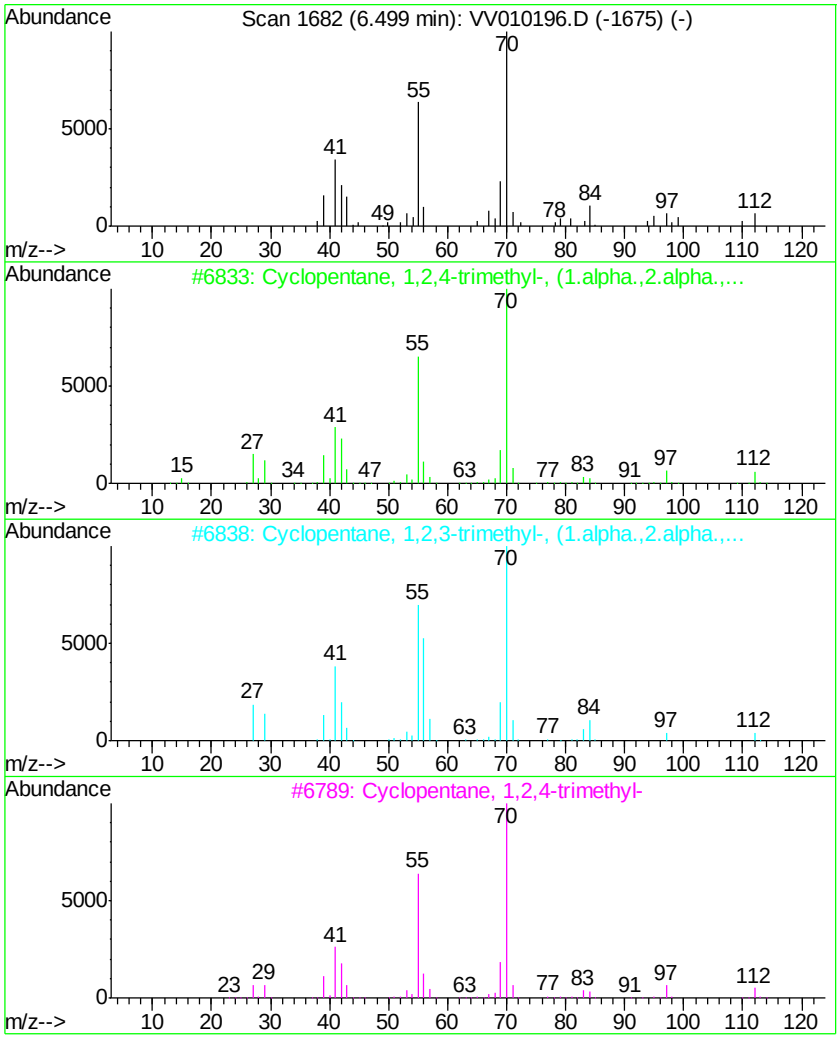
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

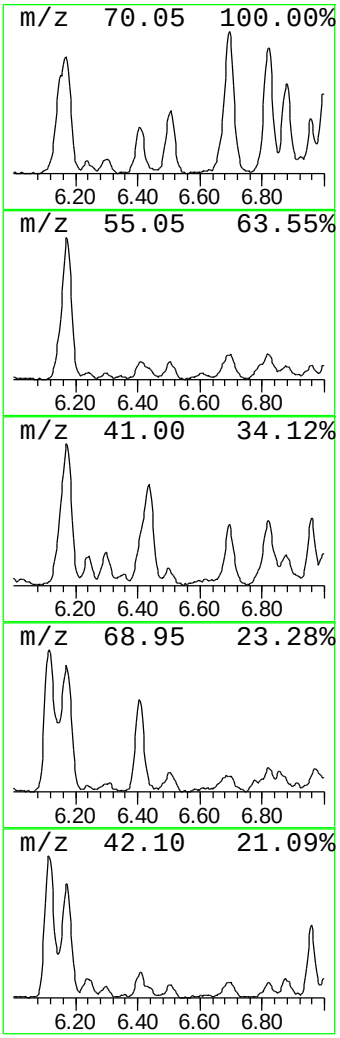
**********

Peak Number 18 (DEL) Alkane: Cyclic6.50 Concentration Rank 75

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.50 | 1.85 ug/L | 66412 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentane, 1,2,4-trimethyl-, ... | 112 | C8H16 | 004850-28-6 | 83 |
| 2 | Cyclopentane, 1,2,3-trimethyl-, ... | 112 | C8H16 | 002613-69-6 | 83 |
| 3 | Cyclopentane, 1,2,4-trimethyl- | 112 | C8H16 | 002815-58-9 | 72 |
| 4 | Nonane, 3-methylene- | 140 | C10H20 | 051655-64-2 | 64 |
| 5 | 3-(Cyclopropylamino)propionitrile | 110 | C6H10N2 | 058196-47-7 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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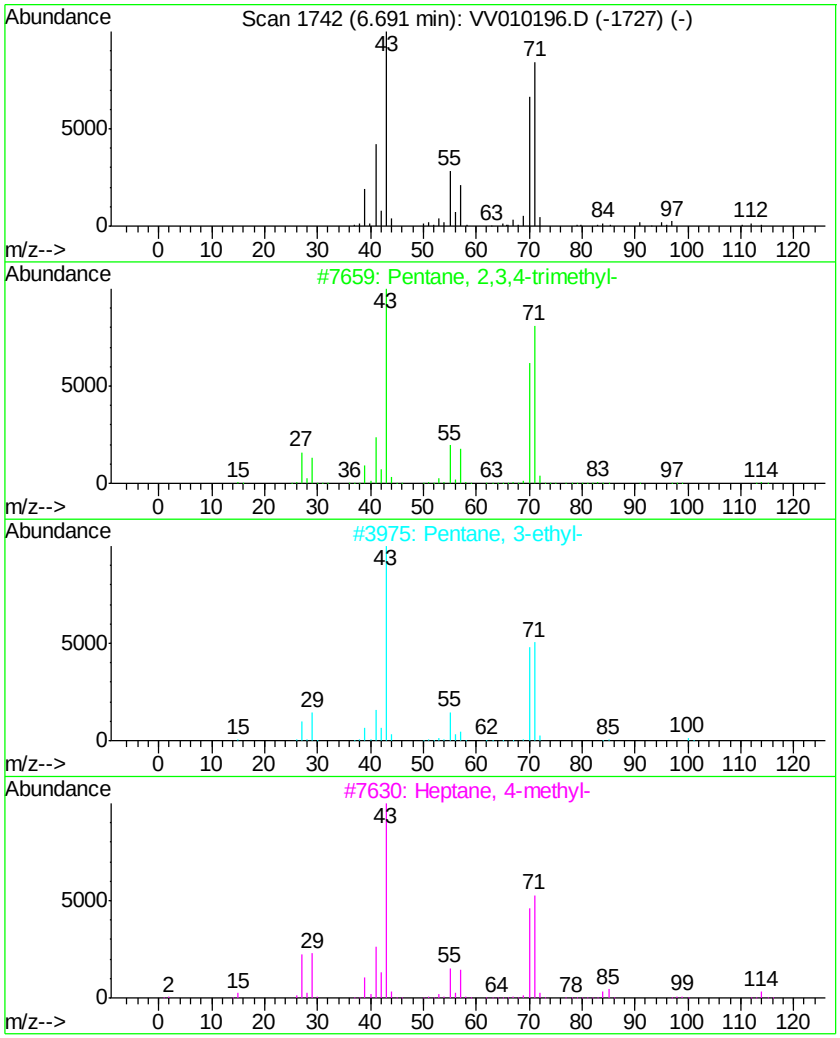
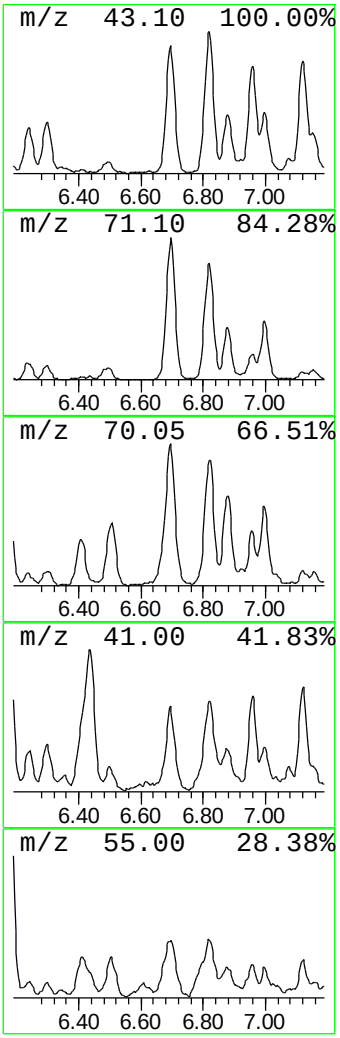
Peak Number 19 (DEL) Alkane: Straight-Chai... Concentration Rank 45

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.69 | 6.52 ug/L | 233643 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,4-trimethyl- | 114 | C8H18 | 000565-75-3 | 90 |
| 2 | Pentane, 3-ethyl- | 100 | C7H16 | 000617-78-7 | 78 |
| 3 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 78 |
| 4 | Pentane, 3-ethyl- | 100 | C7H16 | 000617-78-7 | 78 |
| 5 | Hexane, 3,3,4-trimethyl- | 128 | C9H20 | 016747-31-2 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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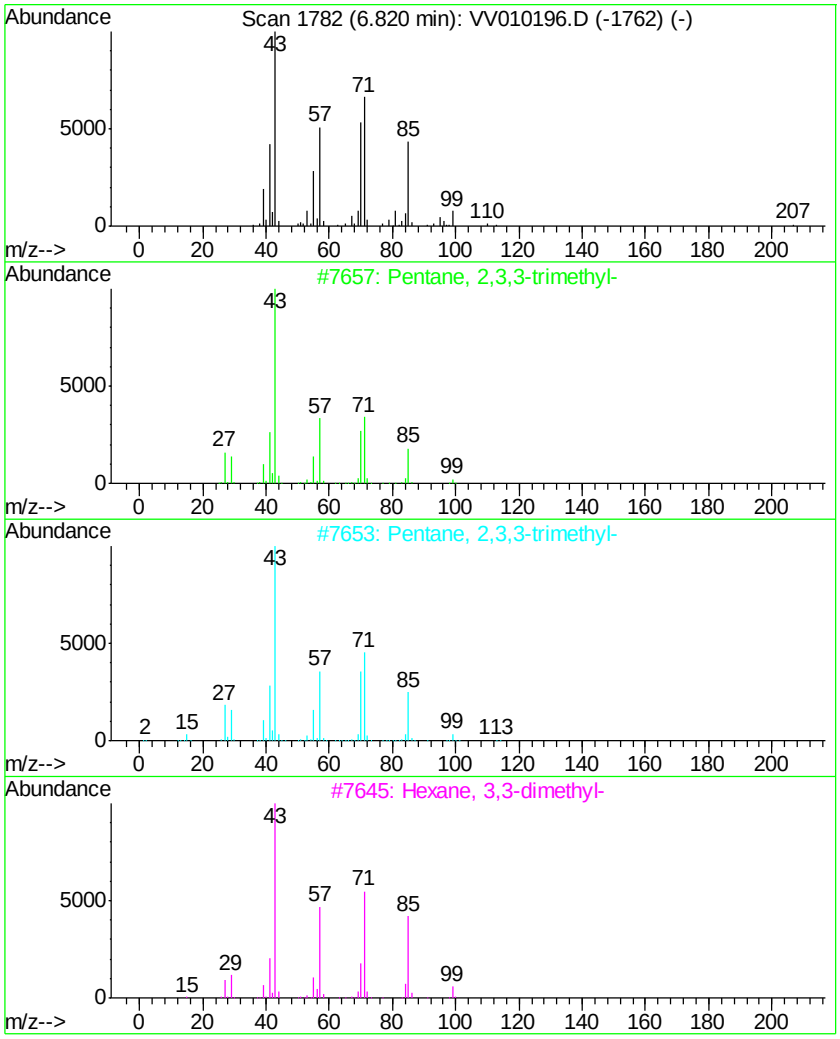
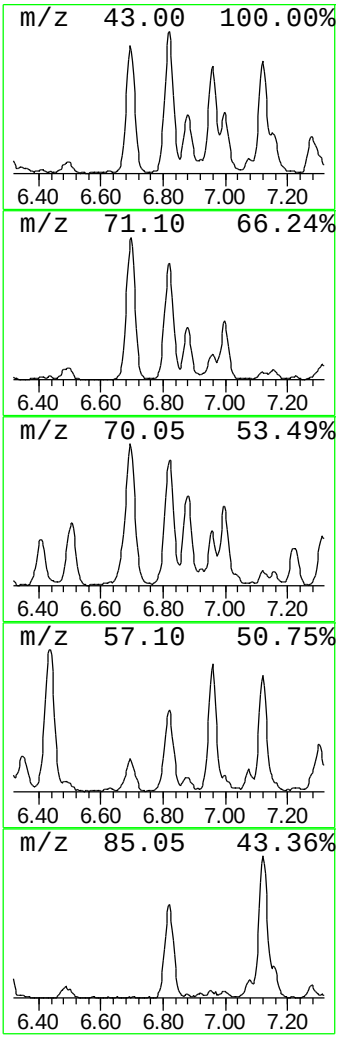
Peak Number 20 (DEL) Alkane: Straight-Chai... Concentration Rank 27

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.82 | 10.19 ug/L | 364965 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Pentane, 2,3,3-trimethyl- | 114 | C8H18 | 000560-21-4 | 83 |
| 2 | Pentane, 2,3,3-trimethyl- | 114 | C8H18 | 000560-21-4 | 83 |
| 3 | Hexane, 3,3-dimethyl- | 114 | C8H18 | 000563-16-6 | 59 |
| 4 | Undecane, 4,8-dimethyl- | 184 | C13H28 | 017301-33-6 | 59 |
| 5 | Heptane, 4-methyl- | 114 | C8H18 | 000589-53-7 | 53 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :**
MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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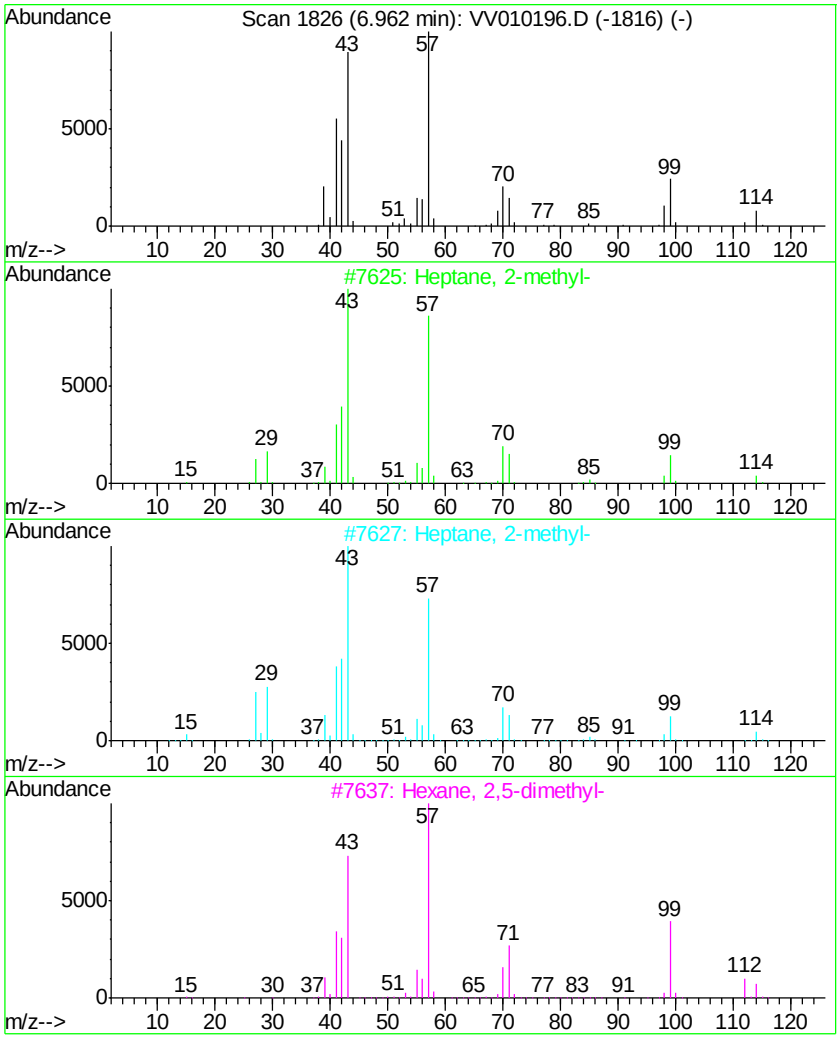
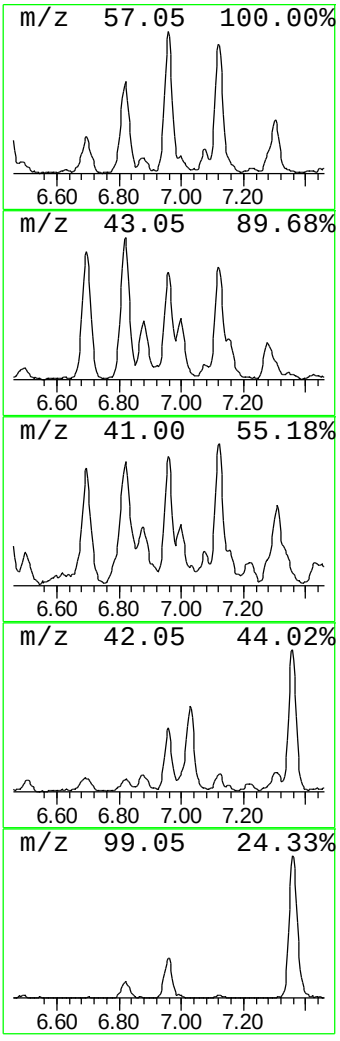
Peak Number 21 (DEL) Alkane: Straight-Chai... Concentration Rank 64

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 6.96 | 3.76 ug/L | 134576 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 87 |
| 2 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 83 |
| 3 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 74 |
| 4 | Heptane, 2-methyl- | 114 | C8H18 | 000592-27-8 | 72 |
| 5 | Hexane, 2,5-dimethyl- | 114 | C8H18 | 000592-13-2 | 62 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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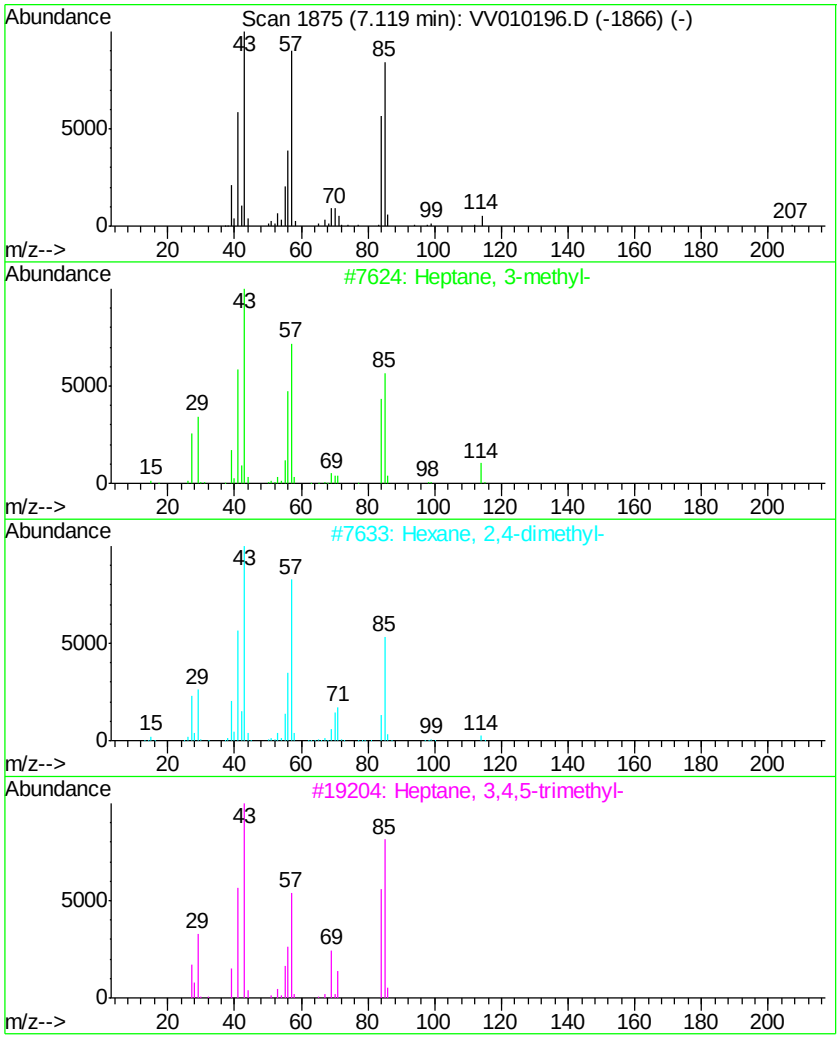
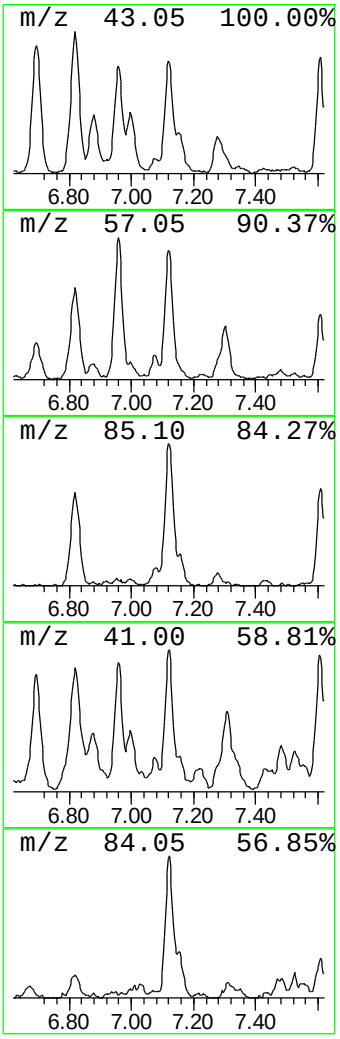
Peak Number 23 (DEL) Alkane: Straight-Chai... Concentration Rank 58

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.12 | 4.51 ug/L | 161574 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 3-methyl- | 114 | C8H18 | 000589-81-1 | 81 |
| 2 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 72 |
| 3 | Heptane, 3,4,5-trimethyl- | 142 | C10H22 | 020278-89-1 | 72 |
| 4 | Heptane, 3-methyl- | 114 | C8H18 | 000589-81-1 | 64 |
| 5 | Hexane, 2,4-dimethyl- | 114 | C8H18 | 000589-43-5 | 64 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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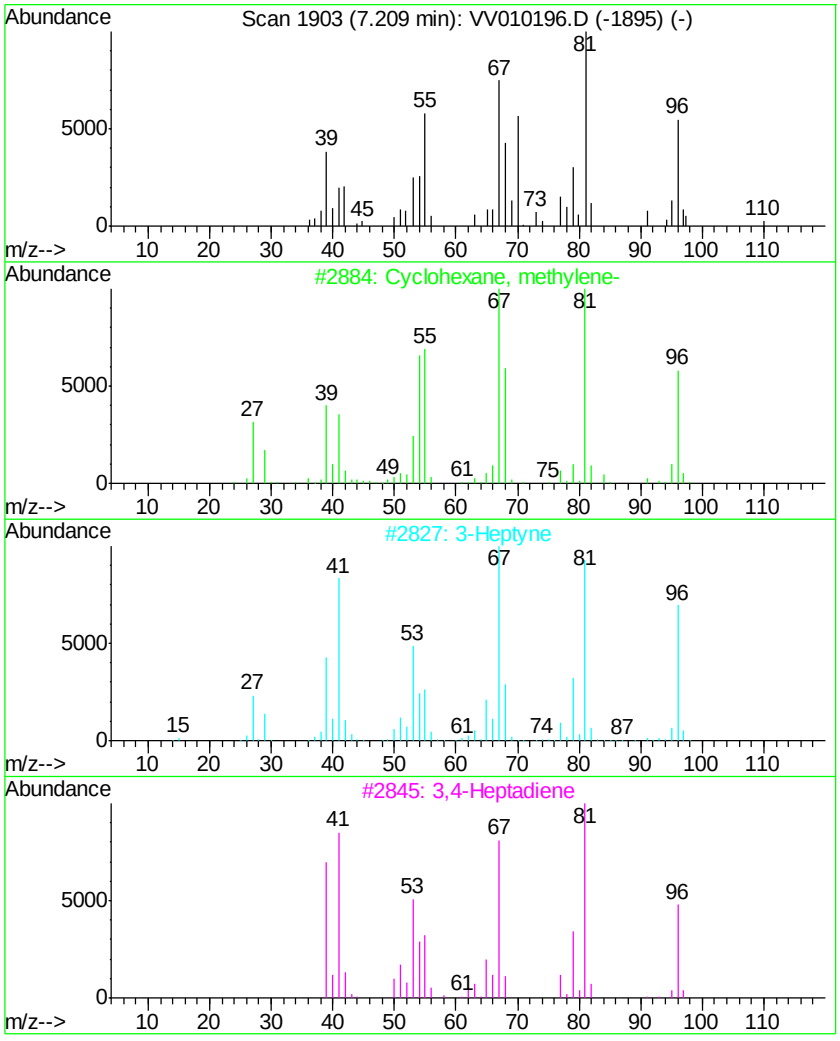
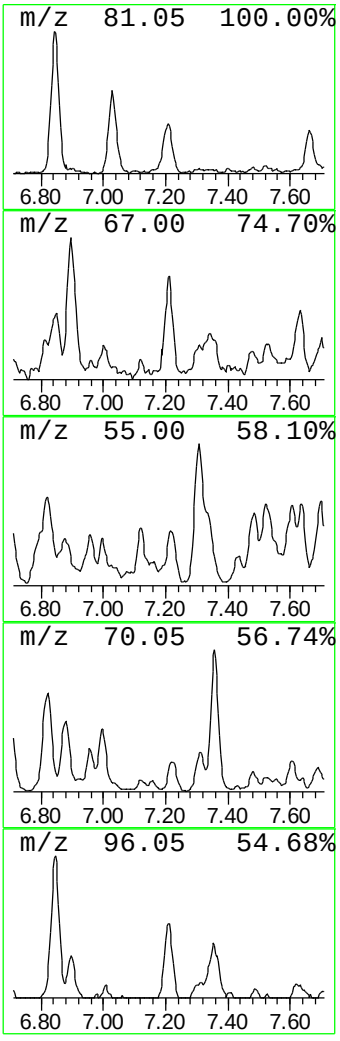
Peak Number 24 Cyclohexane, methylene- Concentration Rank 72

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.21 | 2.33 ug/L | 83509 | 1,4-Difluorobenzene | 5.66 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclohexane, methylene- | 96 | C7H12 | 001192-37-6 | 62 |
| 2 | 3-Heptyne | 96 | C7H12 | 002586-89-2 | 58 |
| 3 | 3,4-Heptadiene | 96 | C7H12 | 002454-31-1 | 53 |
| 4 | Cyclohexane, methylene- | 96 | C7H12 | 001192-37-6 | 52 |
| 5 | Cyclohexane, methylene- | 96 | C7H12 | 001192-37-6 | 49 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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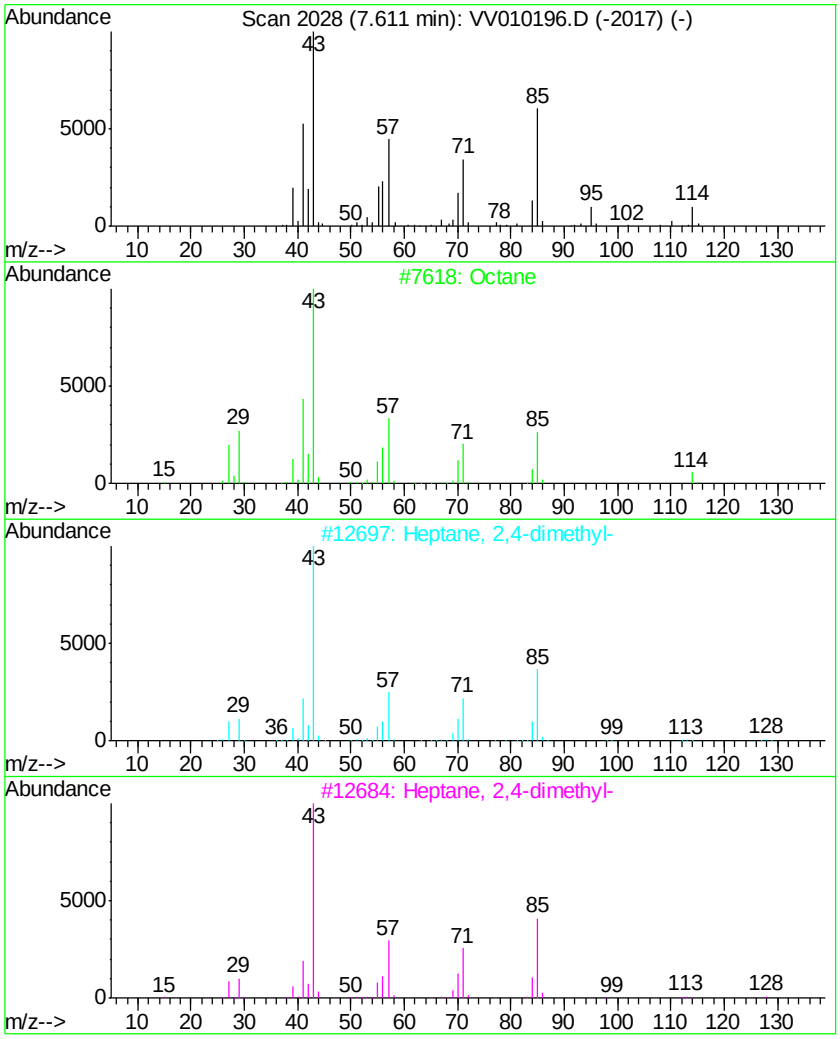
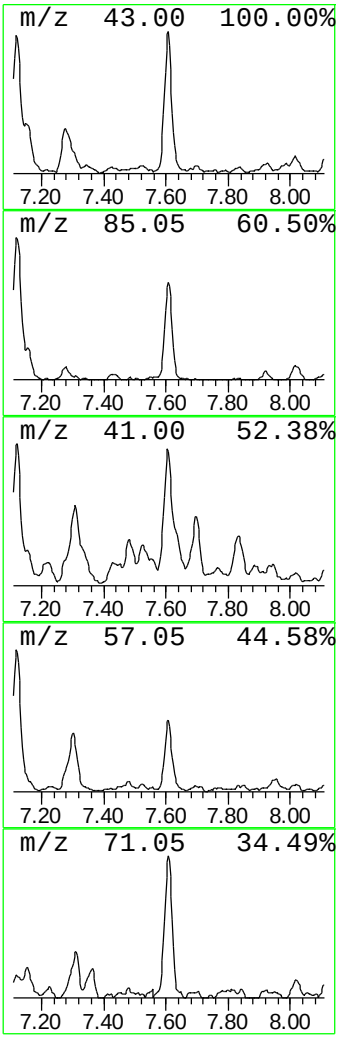
Peak Number 25 (DEL) Alkane: Straight-Chai... Concentration Rank 48

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 7.61 | 6.14 ug/L | 181038 | Chlorobenzene-d5 | 8.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Octane | 114 | C8H18 | 000111-65-9 | 91 |
| 2 | Heptane, 2,4-dimethyl- | 128 | C9H20 | 002213-23-2 | 64 |
| 3 | Heptane, 2,4-dimethyl- | 128 | C9H20 | 002213-23-2 | 64 |
| 4 | Oxalic acid, isohexyl pentyl ester | 244 | C13H24O4 | 1000309-32-8 | 64 |
| 5 | Heptane, 2,3-dimethyl- | 128 | C9H20 | 003074-71-3 | 64 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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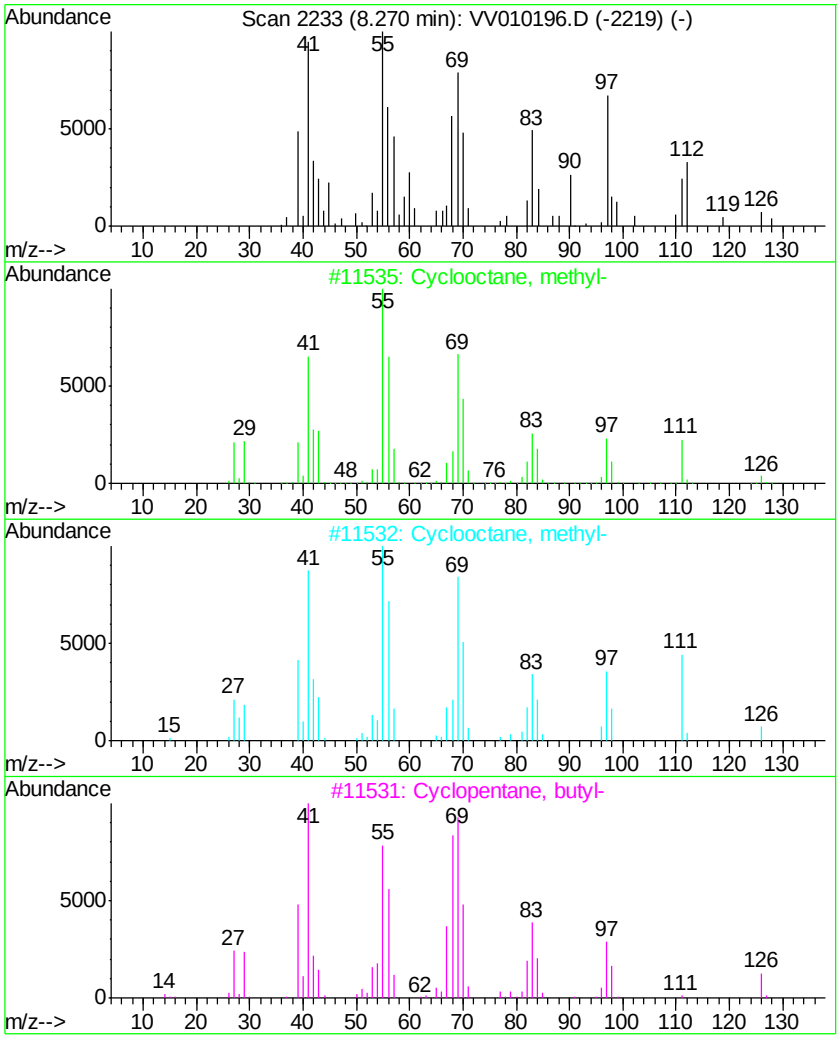
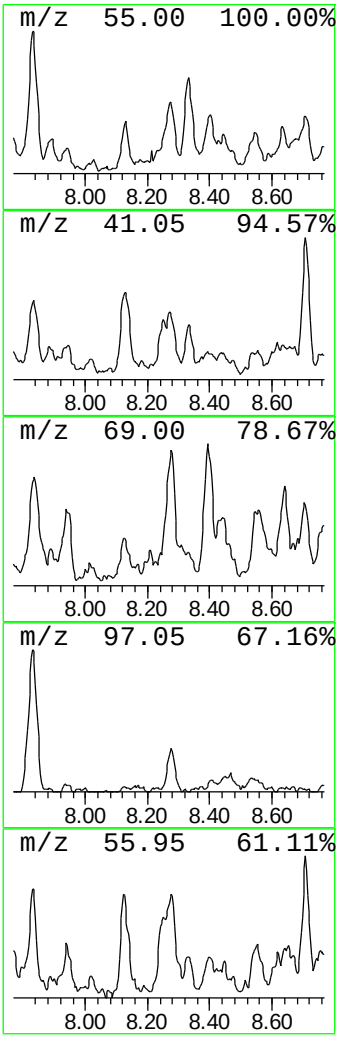
Peak Number 26 (DEL) Alkane: Cyclic8.27 Concentration Rank 66

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.27 | 3.43 ug/L | 101192 | Chlorobenzene-d5 | 8.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclooctane, methyl- | 126 | C9H18 | 001502-38-1 | 91 |
| 2 | Cyclooctane, methyl- | 126 | C9H18 | 001502-38-1 | 55 |
| 3 | Cyclopentane, butyl- | 126 | C9H18 | 002040-95-1 | 45 |
| 4 | Cyclohexane, 1,2-dimethyl-, cis- | 112 | C8H16 | 002207-01-4 | 41 |
| 5 | Cyclohexane, 1,2-dimethyl-, cis- | 112 | C8H16 | 002207-01-4 | 41 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

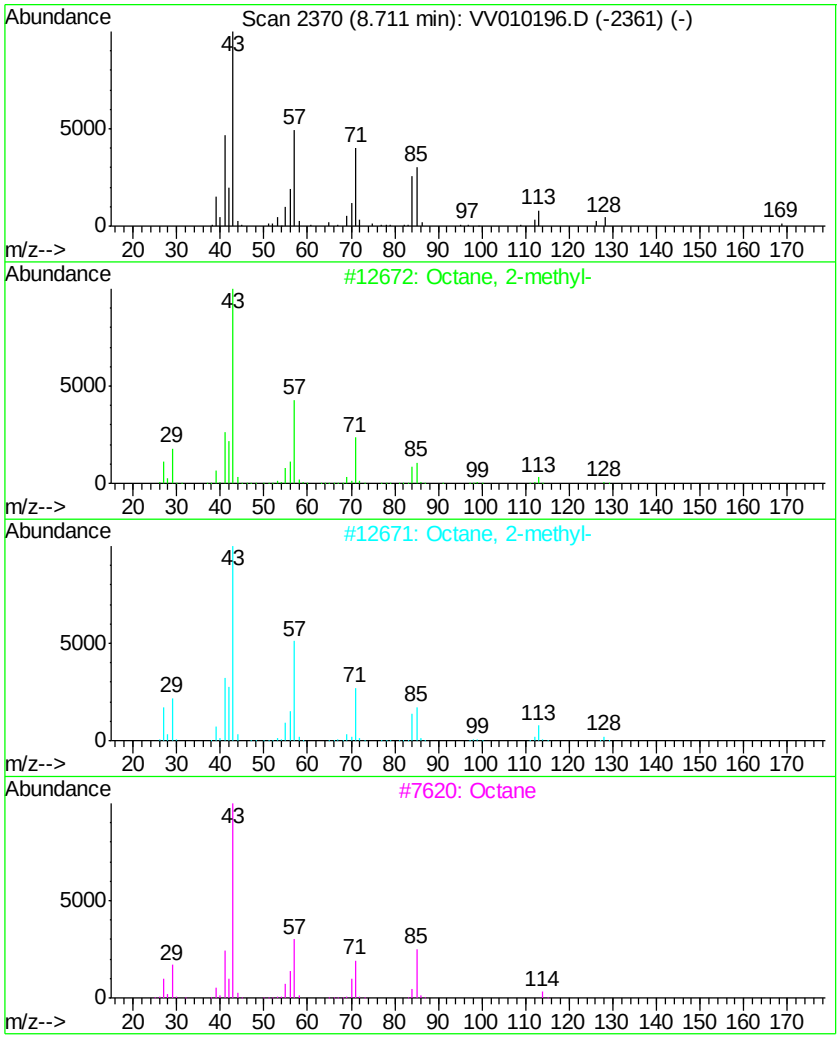
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

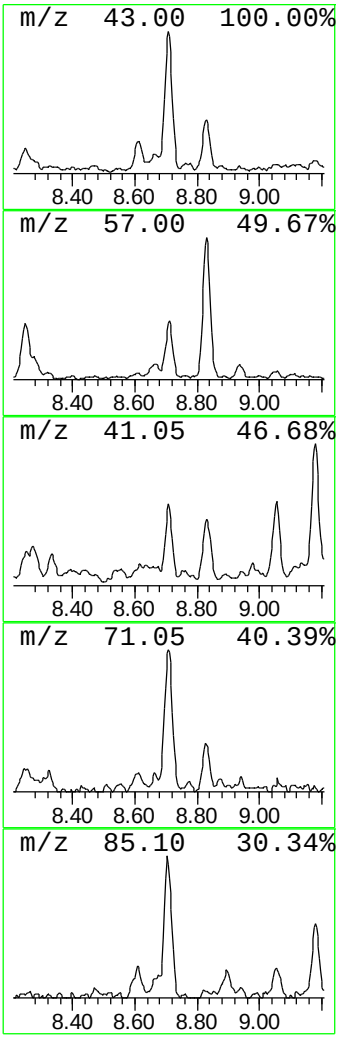
**********

Peak Number 27 (DEL) Alkane: Straight-Chai... Concentration Rank 67

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.71 | 3.37 ug/L | 99309 | Chlorobenzene-d5 | 8.89 |

| 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 | 58 |
| 3 | Octane | 114 | C8H18 | 000111-65-9 | 53 |
| 4 | Octane, 2-methyl- | 128 | C9H20 | 003221-61-2 | 53 |
| 5 | Hexane, 2,3,5-trimethyl- | 128 | C9H20 | 001069-53-0 | 50 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

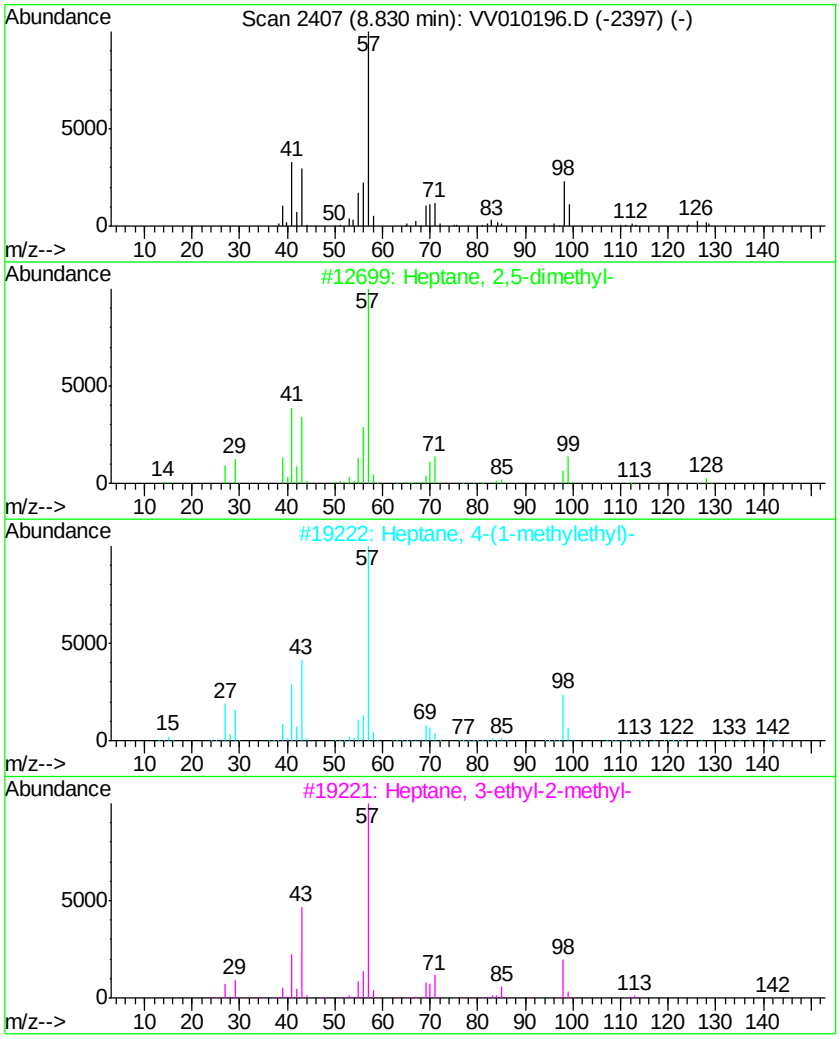
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

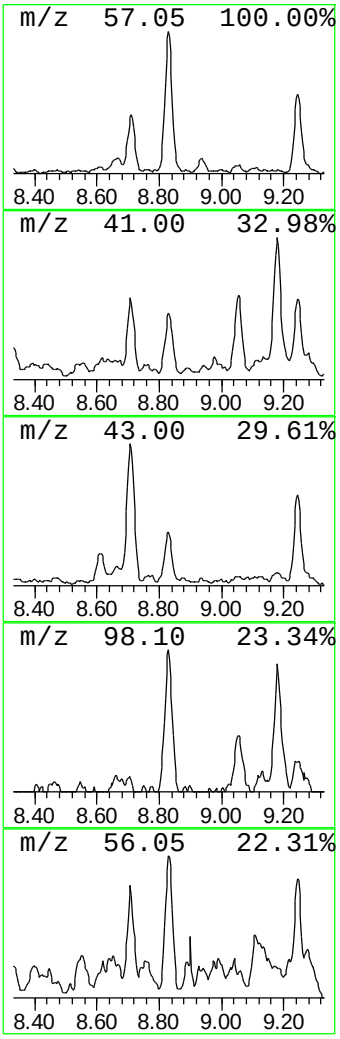
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 28 (DEL) Alkane: Straight-Chai... Concentration Rank 68

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 8.83 | 3.06 ug/L | 90317 | Chlorobenzene-d5 | 8.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 76 |
| 2 | Heptane, 4-(1-methylethyl)- | 142 | C10H22 | 052896-87-4 | 64 |
| 3 | Heptane, 3-ethyl-2-methyl- | 142 | C10H22 | 014676-29-0 | 64 |
| 4 | Heptane, 3-ethyl-2-methyl- | 142 | C10H22 | 014676-29-0 | 64 |
| 5 | Heptane, 2,5-dimethyl- | 128 | C9H20 | 002216-30-0 | 59 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

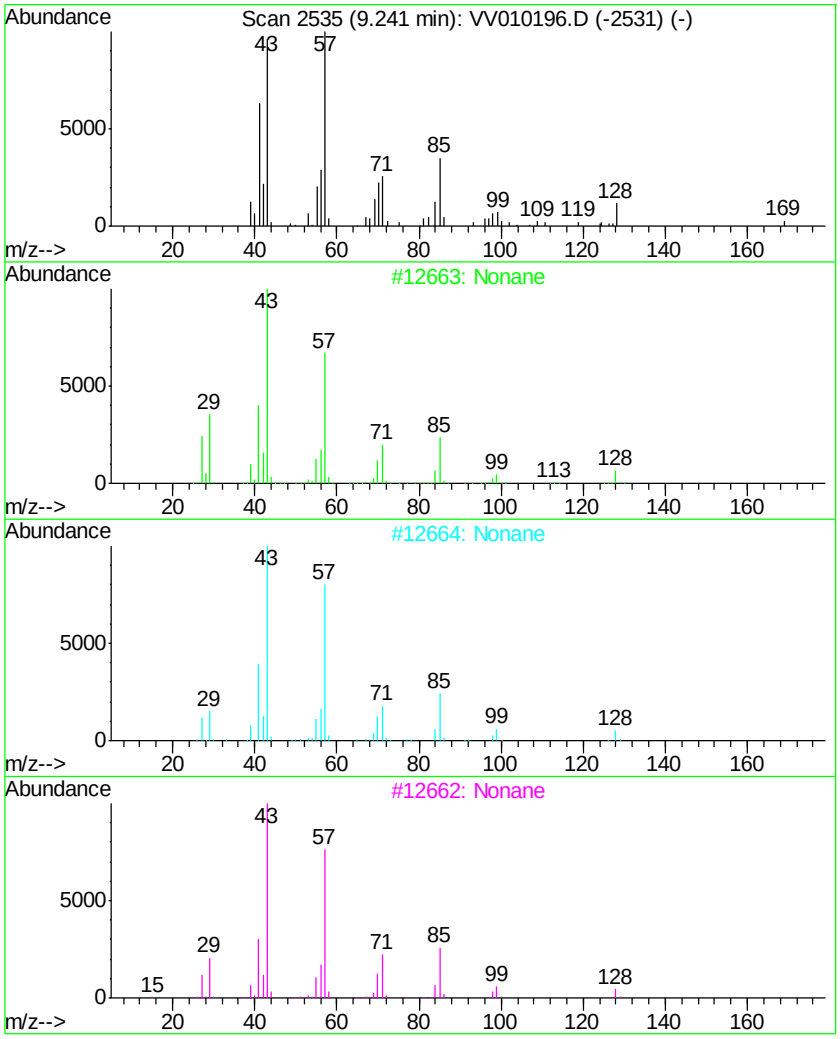
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

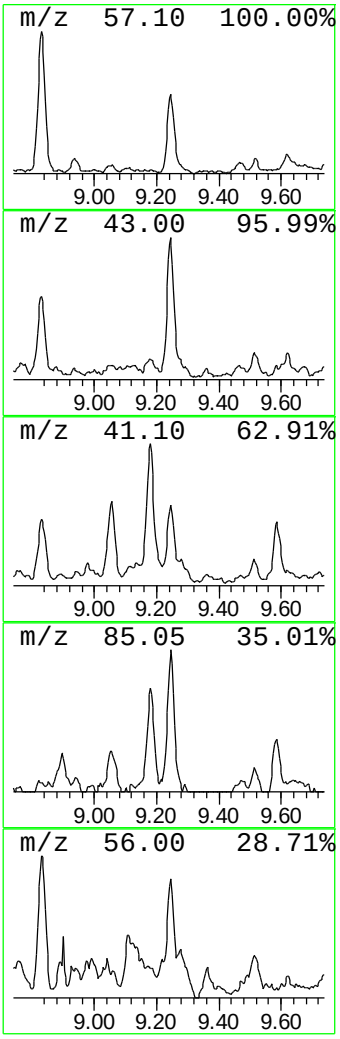
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 29 (DEL) Alkane: Straight-Chai... Concentration Rank 51

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 9.24 | 5.87 ug/L | 173121 | Chlorobenzene-d5 | 8.89 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Nonane | 128 | C9H20 | 000111-84-2 | 91 |
| 2 | Nonane | 128 | C9H20 | 000111-84-2 | 91 |
| 3 | Nonane | 128 | C9H20 | 000111-84-2 | 91 |
| 4 | Octane | 114 | C8H18 | 000111-65-9 | 64 |
| 5 | Undecane | 156 | C11H24 | 001120-21-4 | 59 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

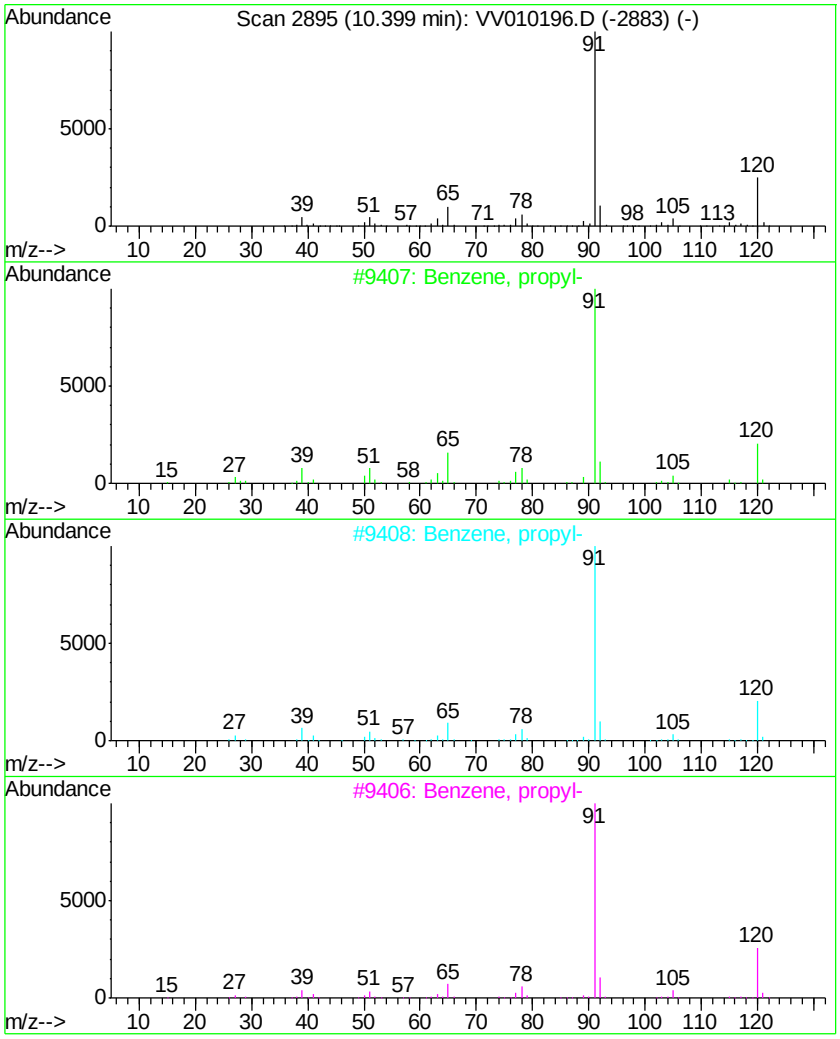
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

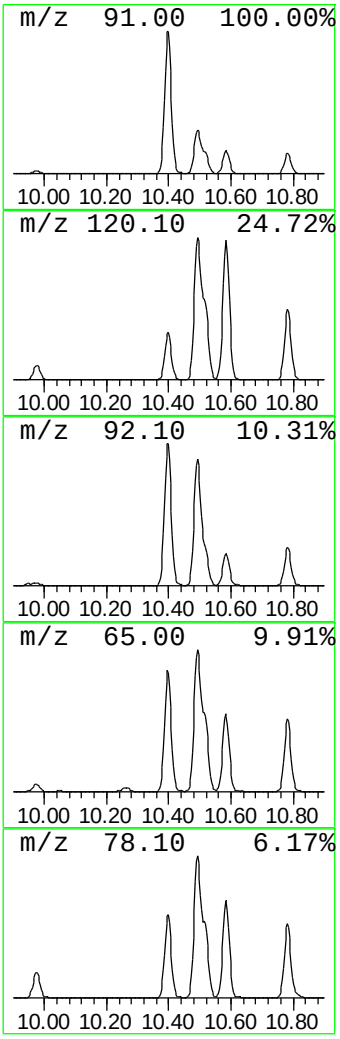
**********

Peak Number 30 Benzene, propyl- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.40 | 88.61 ug/L | 2131420 | 1,4-Dichlorobenzene-d4 | 11.30 |

| 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 | 90 |
| 3 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 90 |
| 4 | Phenethylamine, N-benzyl-p-chloro- | 245 | C15H16ClN | 013622-43-0 | 78 |
| 5 | Ethanol, 2-[(phenylmethyl)amino]- | 151 | C9H13NO | 000104-63-2 | 72 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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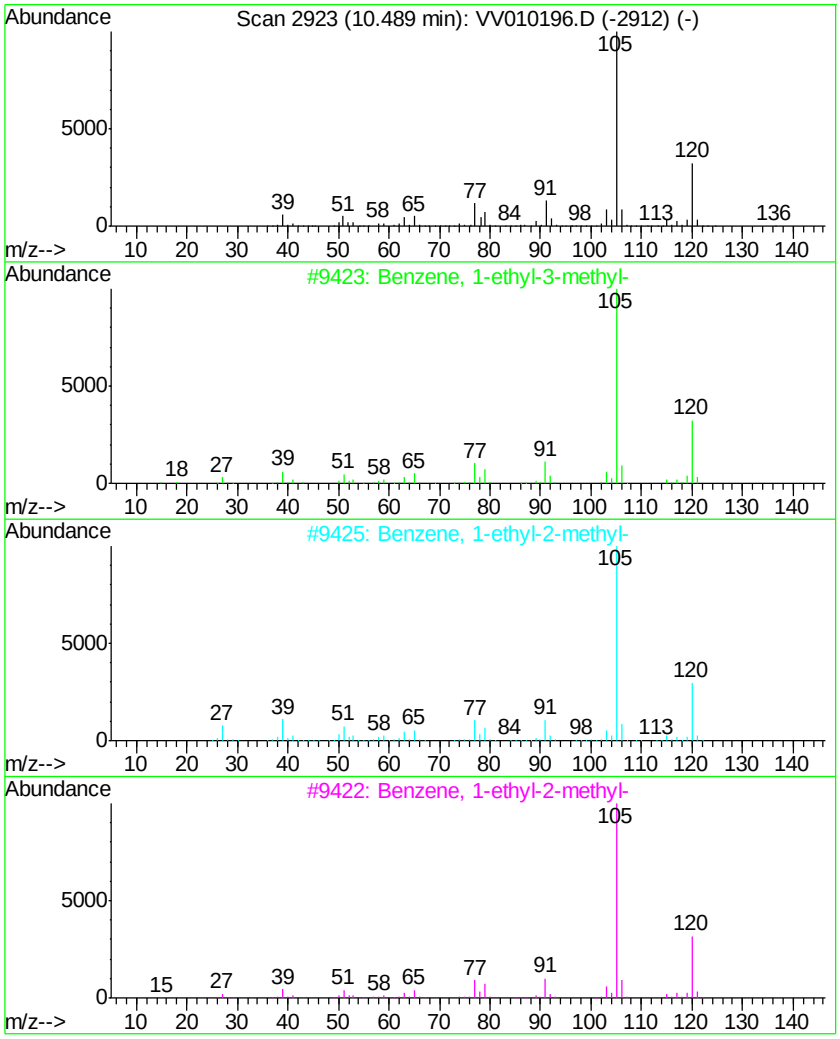
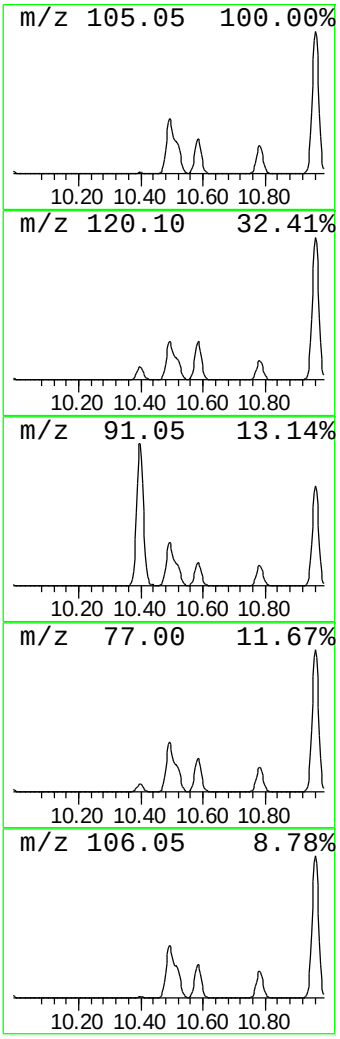
Peak Number 31 Benzene, 1-ethyl-3-methyl- Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.49 | 374.51 ug/L | 9008150 | 1,4-Dichlorobenzene-d4 | 11.30 |

| 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 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

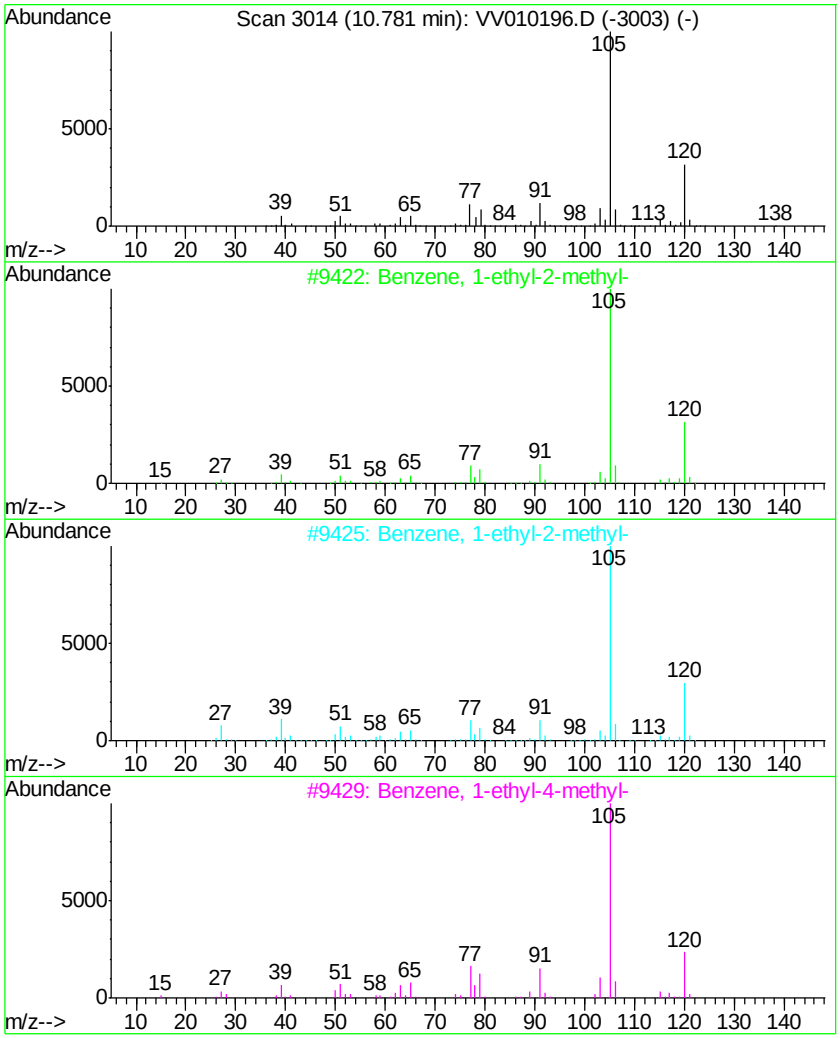
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

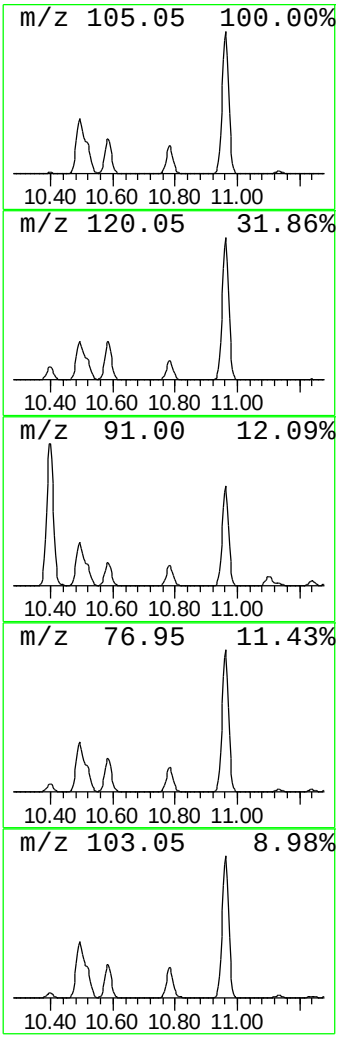
**********

Peak Number 33 Benzene, 1-ethyl-2-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.78 | 129.14 ug/L | 3106210 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 2 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 94 |
| 3 | Benzene, 1-ethyl-4-methyl- | 120 | C9H12 | 000622-96-8 | 93 |
| 4 | Benzene, 1-ethyl-2-methyl- | 120 | C9H12 | 000611-14-3 | 93 |
| 5 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

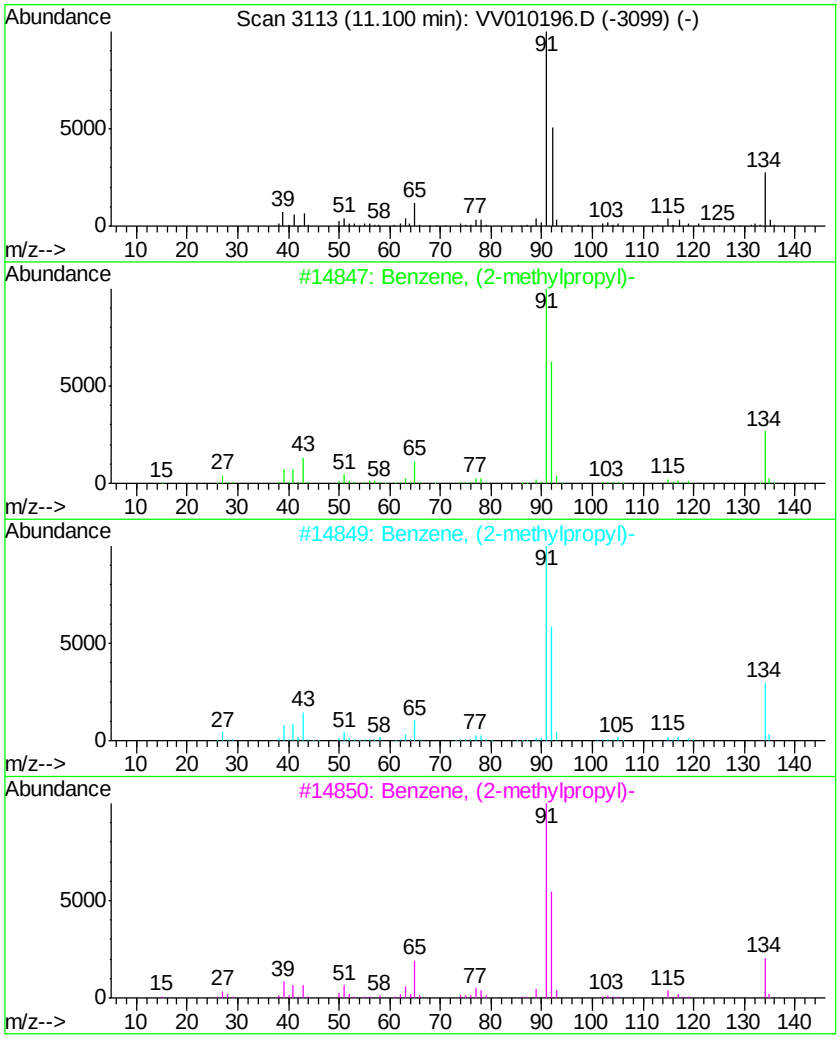
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

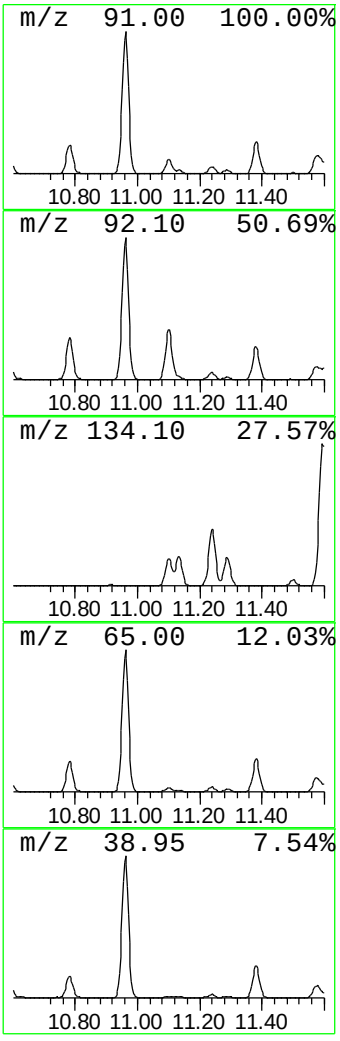
**********

Peak Number 35 Benzene, (2-methylpropyl)- Concentration Rank 36

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.10 | 8.68 ug/L | 208832 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (2-methylpropyl)- | 134 | C10H14 | 000538-93-2 | 91 |
| 2 | Benzene, (2-methylpropyl)- | 134 | C10H14 | 000538-93-2 | 90 |
| 3 | Benzene, (2-methylpropyl)- | 134 | C10H14 | 000538-93-2 | 90 |
| 4 | Benzene, butyl- | 134 | C10H14 | 000104-51-8 | 86 |
| 5 | Benzene, butyl- | 134 | C10H14 | 000104-51-8 | 80 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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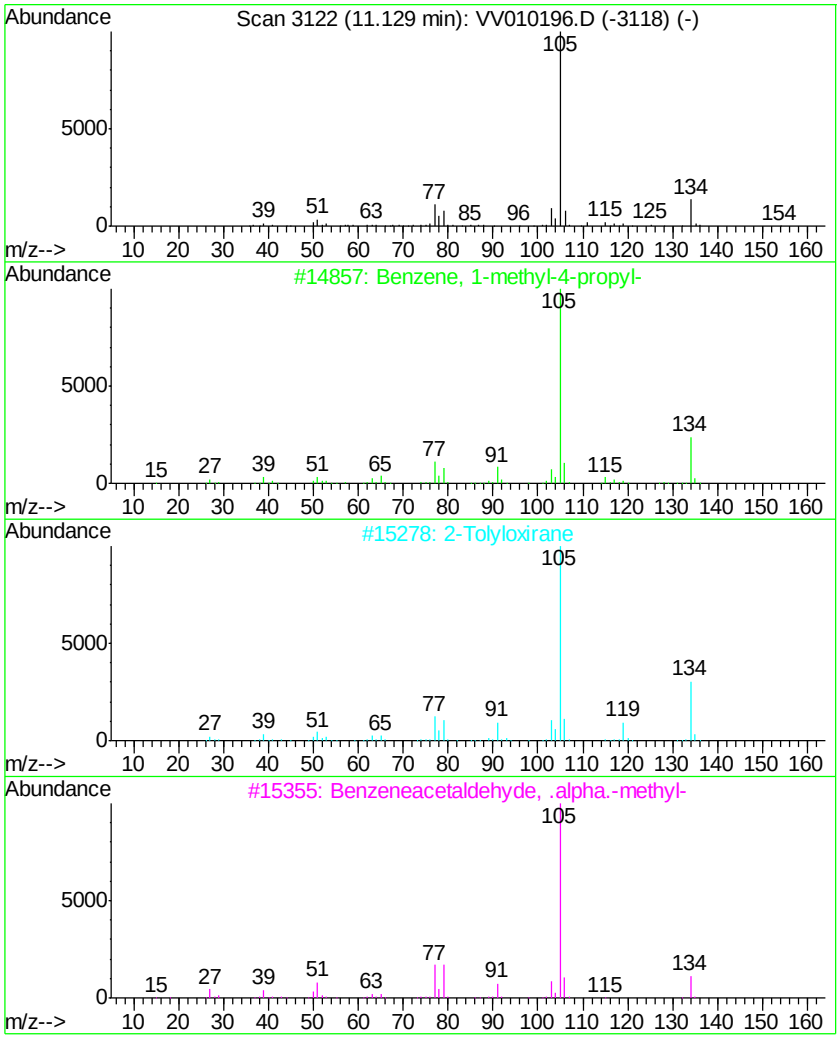
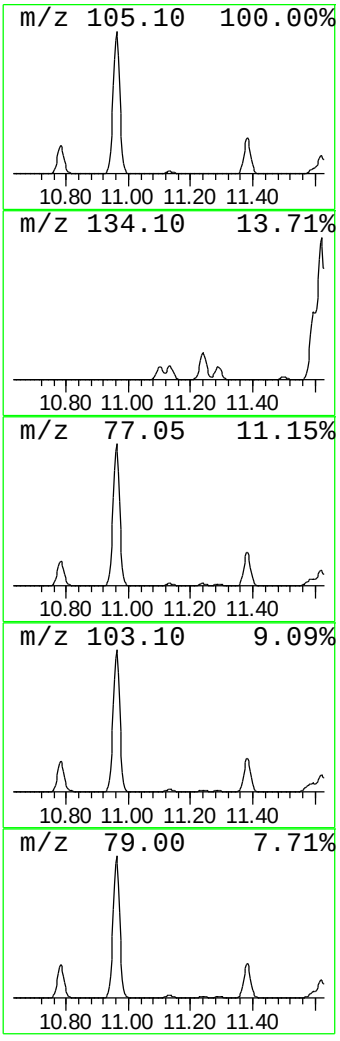
Peak Number 36 Benzene, 1-methyl-4-propyl- Concentration Rank 30

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.13 | 9.97 ug/L | 239803 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |
| 2 | 2-Tolyloxirane | 134 | C9H10O | 002783-26-8 | 78 |
| 3 | Benzeneacetaldehyde, .alpha.-met... | 134 | C9H10O | 000093-53-8 | 72 |
| 4 | Oxirane, 2-methyl-2-phenyl- | 134 | C9H10O | 002085-88-3 | 72 |
| 5 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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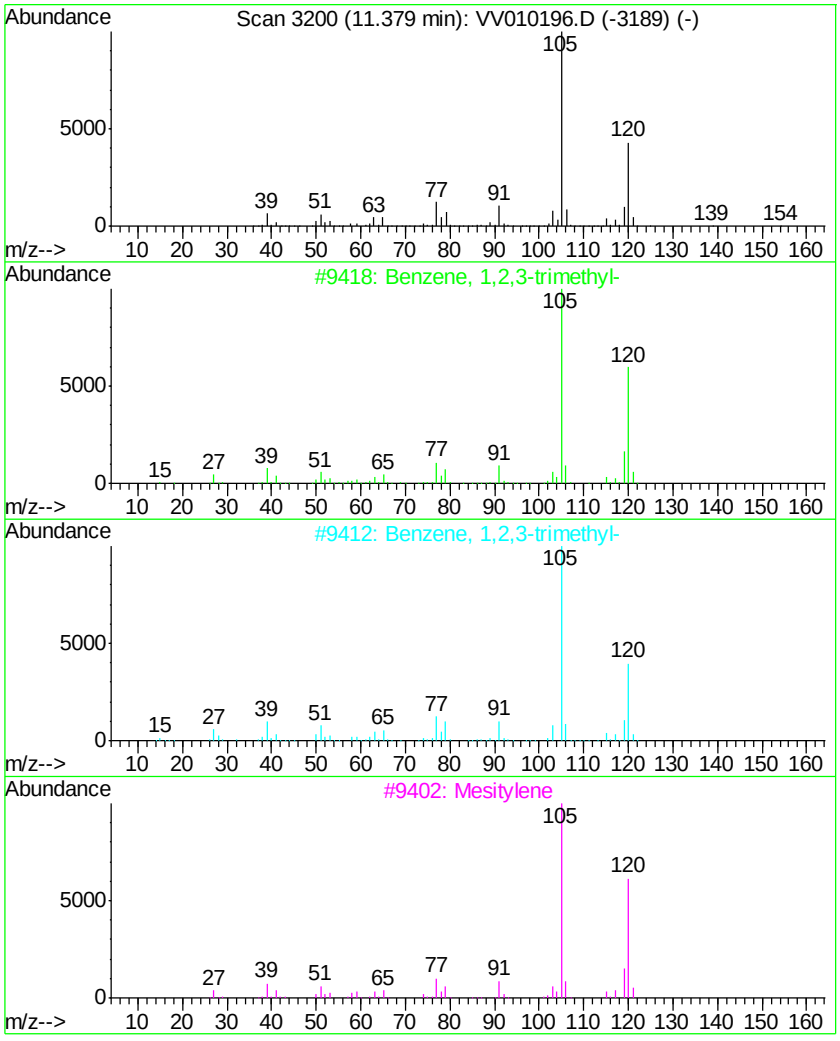
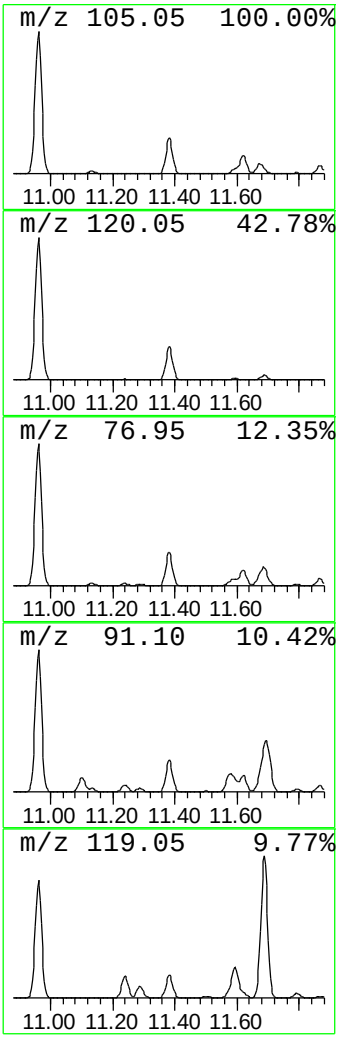
Peak Number 38 Benzene, 1,2,3-trimethyl- Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.38 | 175.97 ug/L | 4232680 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 95 |
| 2 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 94 |
| 3 | Mesitylene | 120 | C9H12 | 000108-67-8 | 93 |
| 4 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 5 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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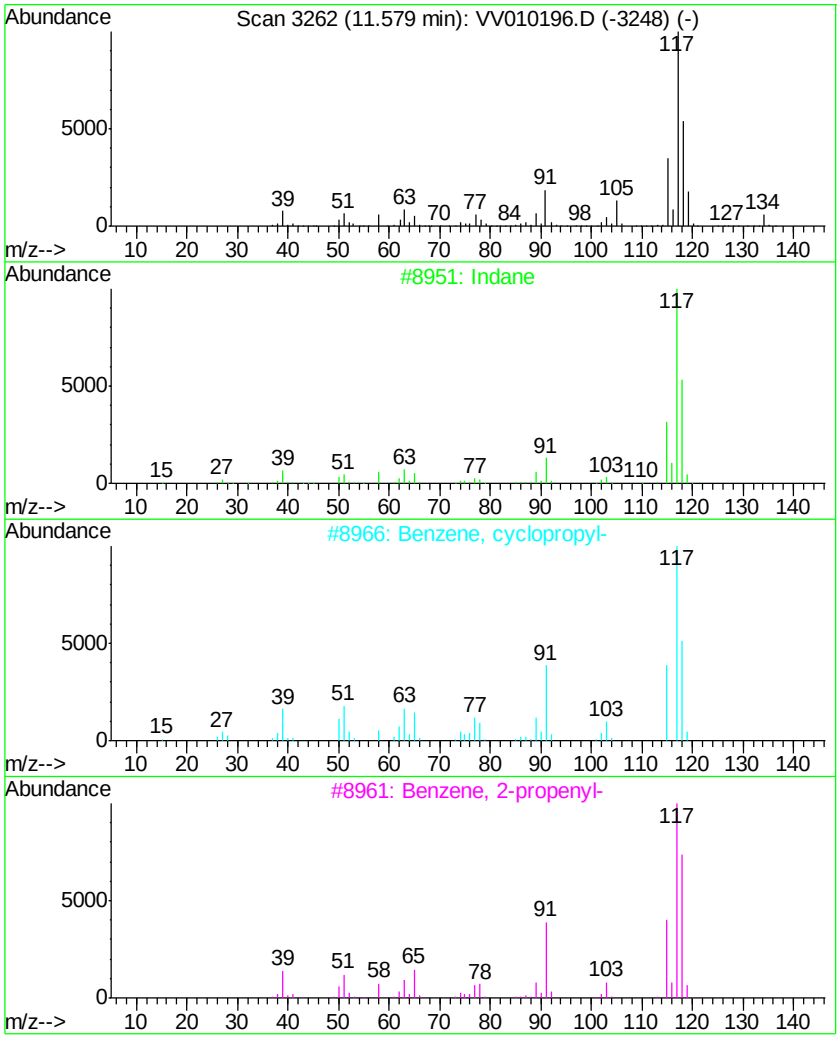
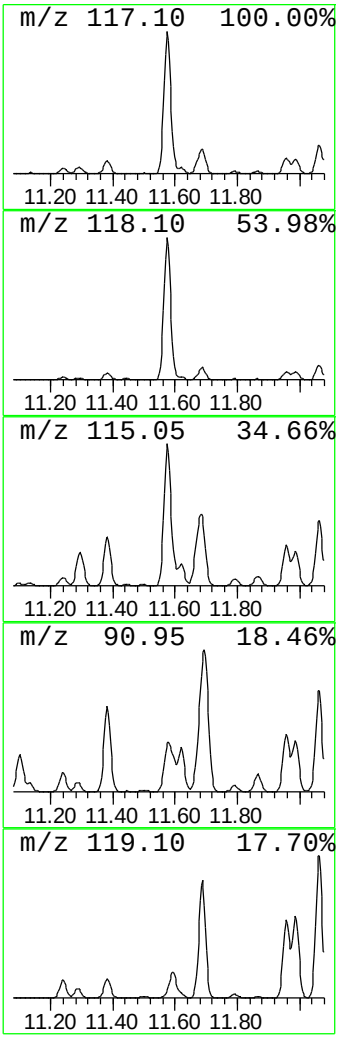
Peak Number 39 Indane Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.58 | 99.70 ug/L | 2398170 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 93 |
| 2 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 76 |
| 3 | Benzene, 2-propenyl- | 118 | C9H10 | 000300-57-2 | 76 |
| 4 | Indane | 118 | C9H10 | 000496-11-7 | 76 |
| 5 | Indane | 118 | C9H10 | 000496-11-7 | 76 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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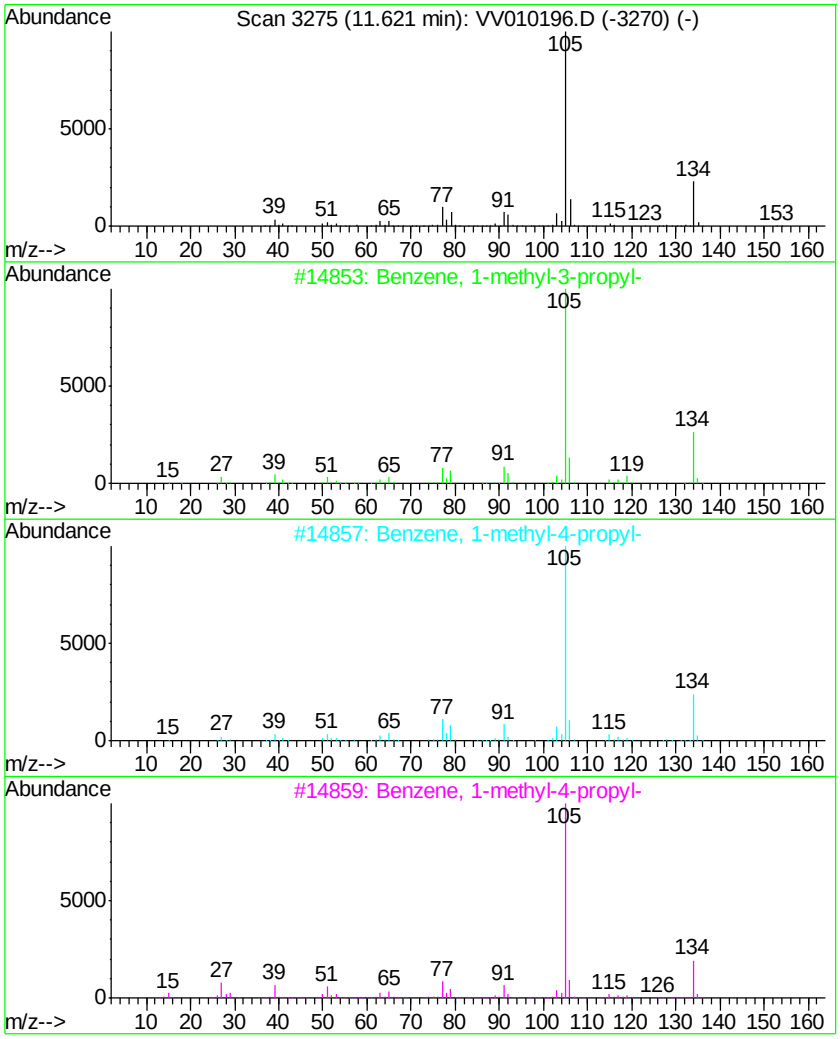
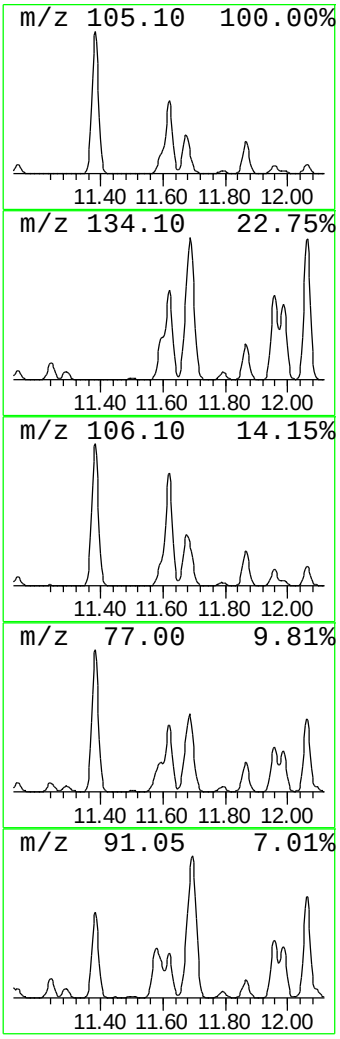
Peak Number 40 Benzene, 1-methyl-3-propyl- Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.62 | 74.82 ug/L | 1799690 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 91 |
| 2 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |
| 3 | Benzene, 1-methyl-4-propyl- | 134 | C10H14 | 001074-55-1 | 91 |
| 4 | Benzene, 1-methyl-3-propyl- | 134 | C10H14 | 001074-43-7 | 91 |
| 5 | Benzene, 1-methyl-2-propyl- | 134 | C10H14 | 001074-17-5 | 90 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

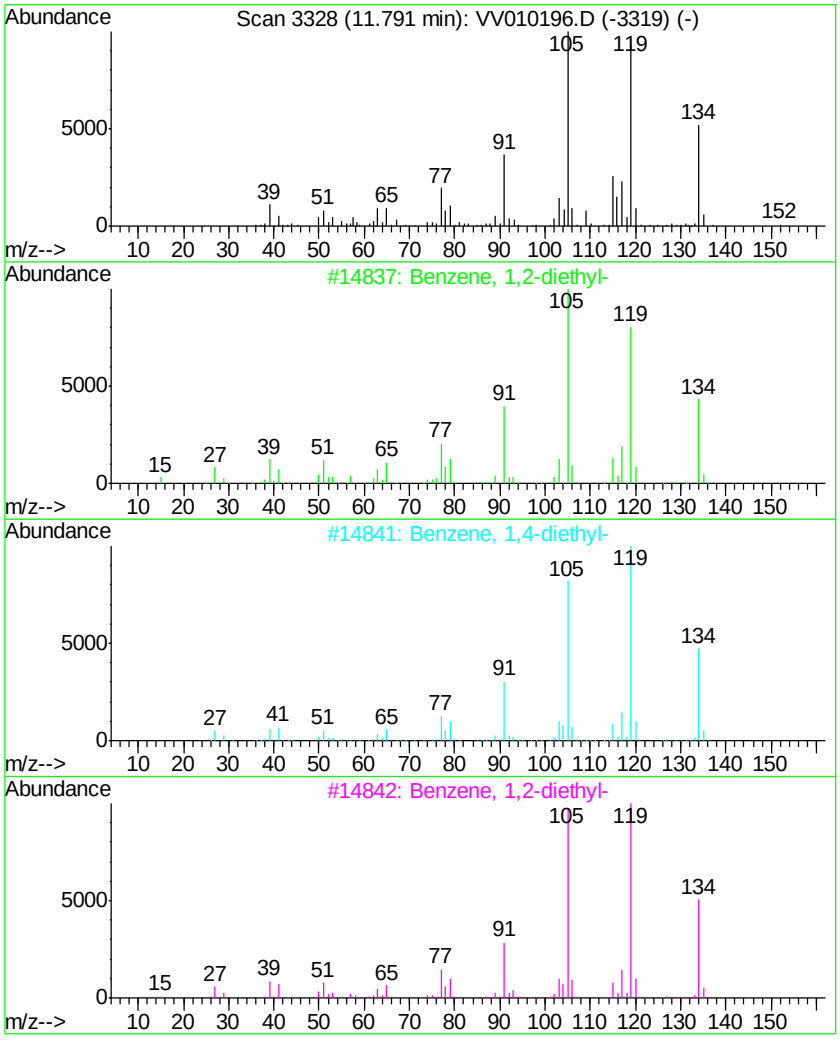
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

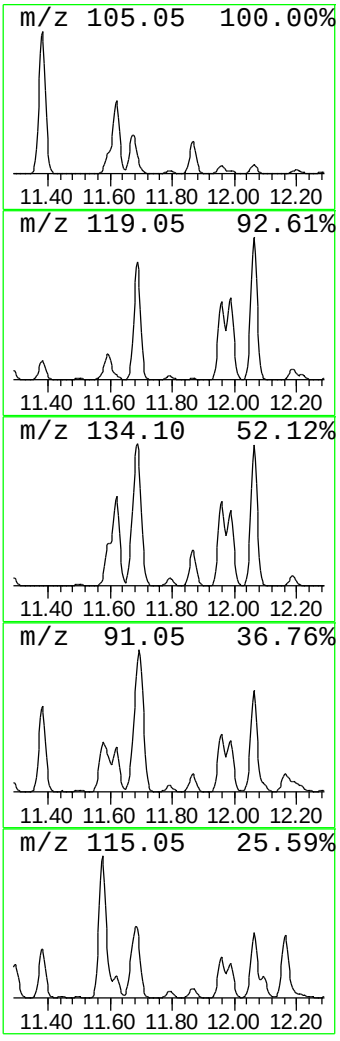
**********

Peak Number 41 Benzene, 1,2-diethyl- Concentration Rank 39

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.79 | 8.01 ug/L | 192699 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 96 |
| 2 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 87 |
| 3 | Benzene, 1,2-diethyl- | 134 | C10H14 | 000135-01-3 | 87 |
| 4 | Benzene, 1,3-diethyl- | 134 | C10H14 | 000141-93-5 | 81 |
| 5 | Benzene, 1,4-diethyl- | 134 | C10H14 | 000105-05-5 | 81 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

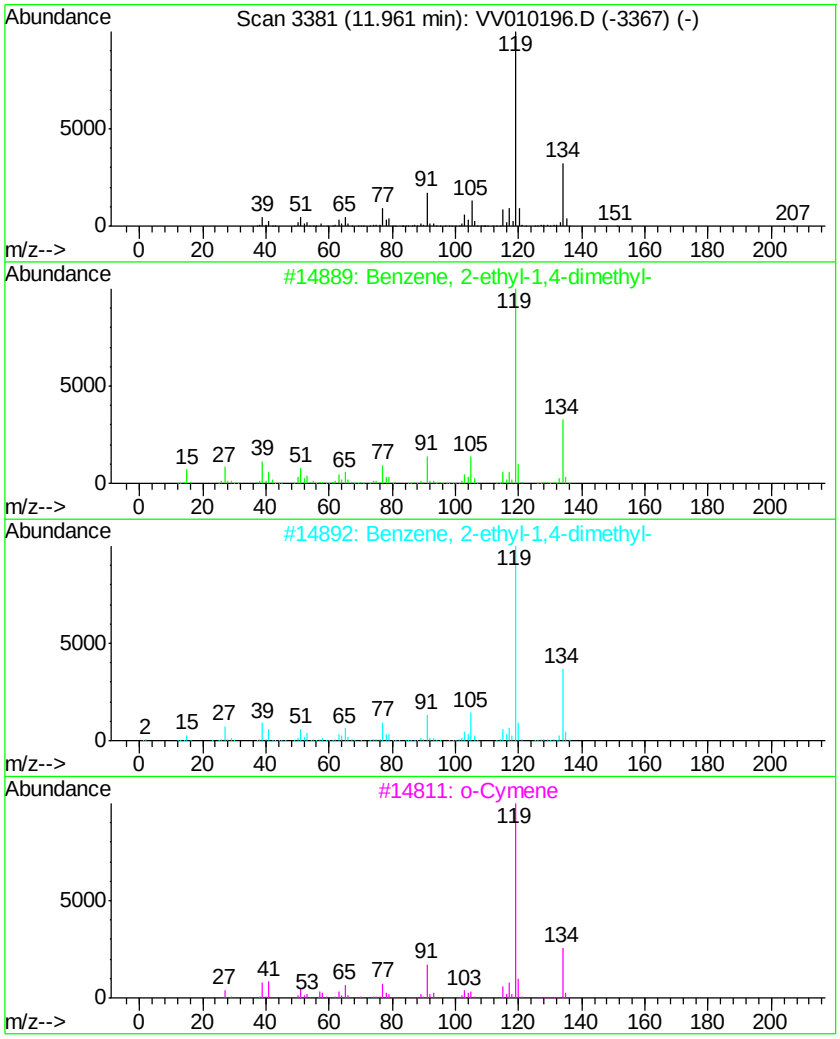
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

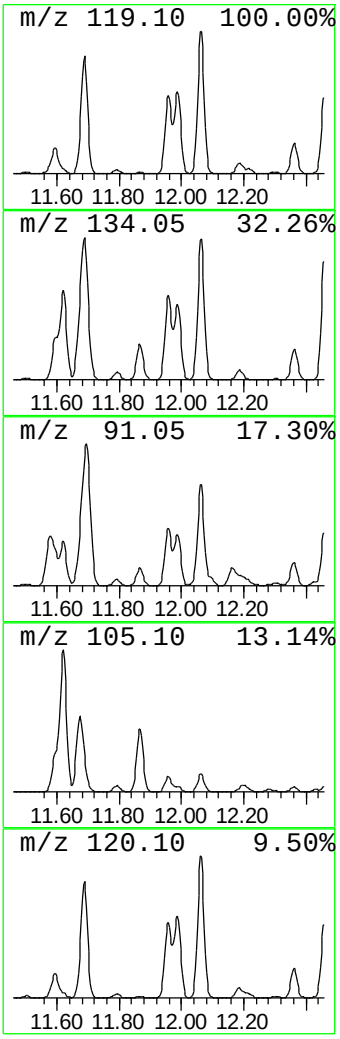
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 43 Benzene, 2-ethyl-1,4-dimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.96 | 71.13 ug/L | 1710790 | 1,4-Dichlorobenzene-d4 | 11.30 |

| 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 | 95 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 5 | Benzene, 1-ethyl-2,3-dimethyl- | 134 | C10H14 | 000933-98-2 | 95 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

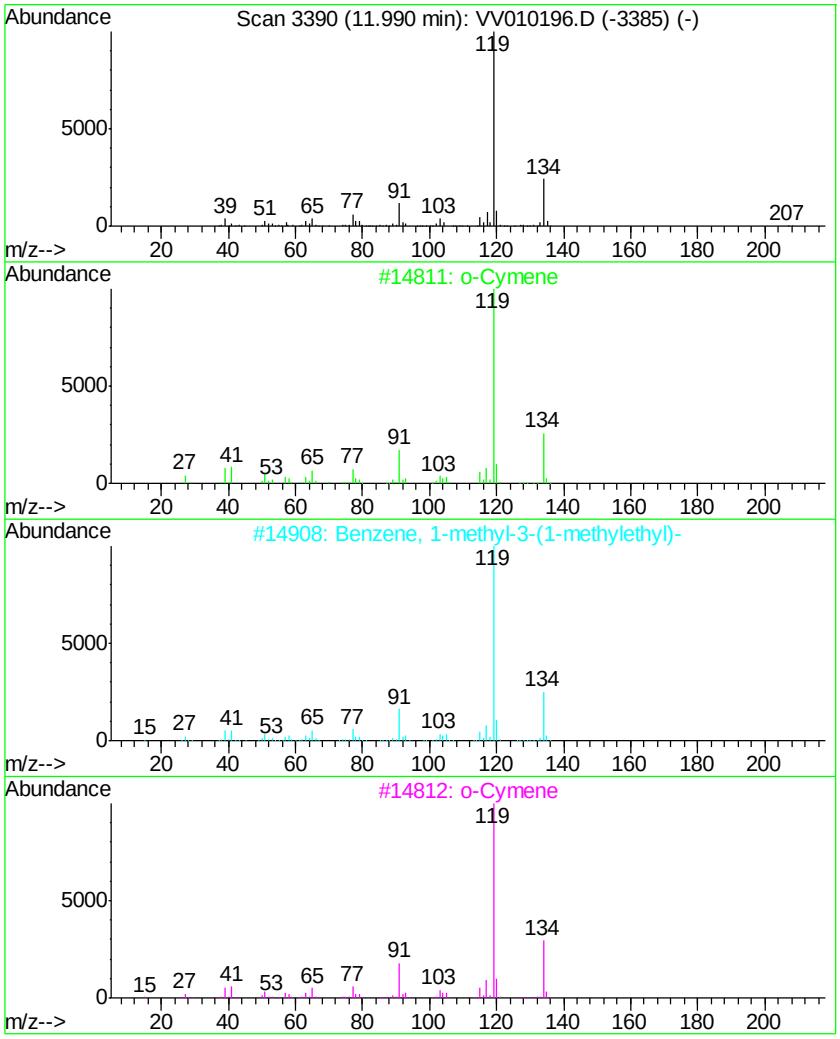
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

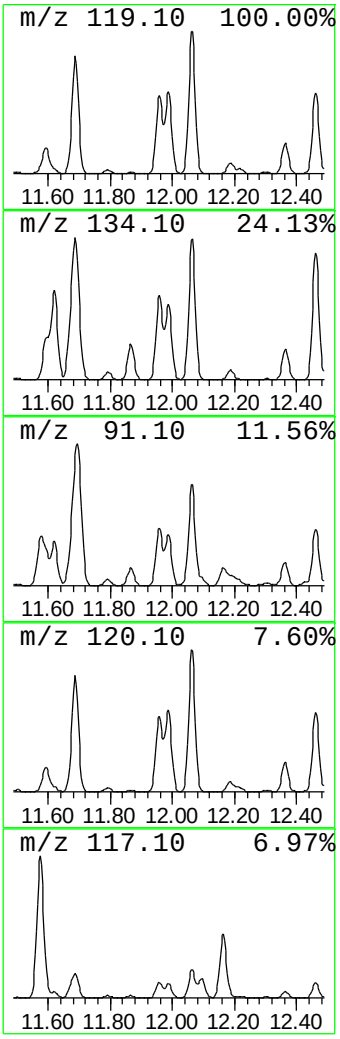
**********

Peak Number 44 o-Cymene Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.99 | 59.16 ug/L | 1422900 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | o-Cymene | 134 | C10H14 | 000527-84-4 | 97 |
| 2 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 97 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 4 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 95 |
| 5 | Benzene, 1-methyl-3-(1-methyleth... | 134 | C10H14 | 000535-77-3 | 95 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

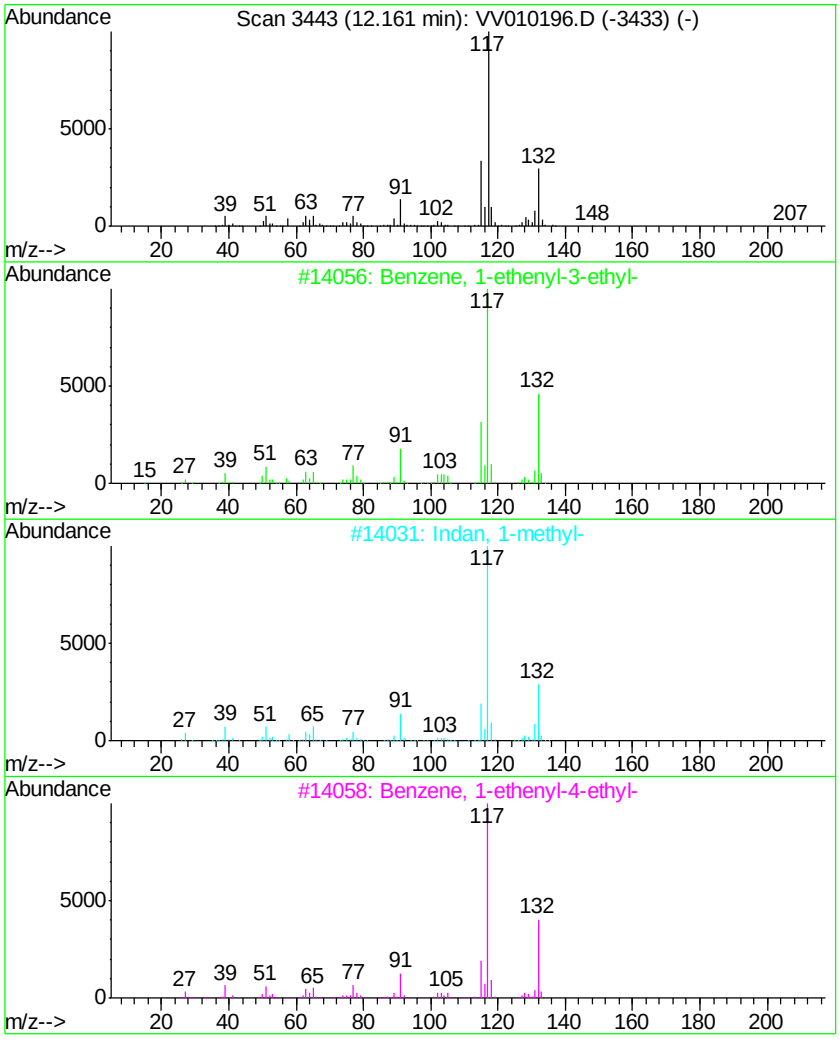
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

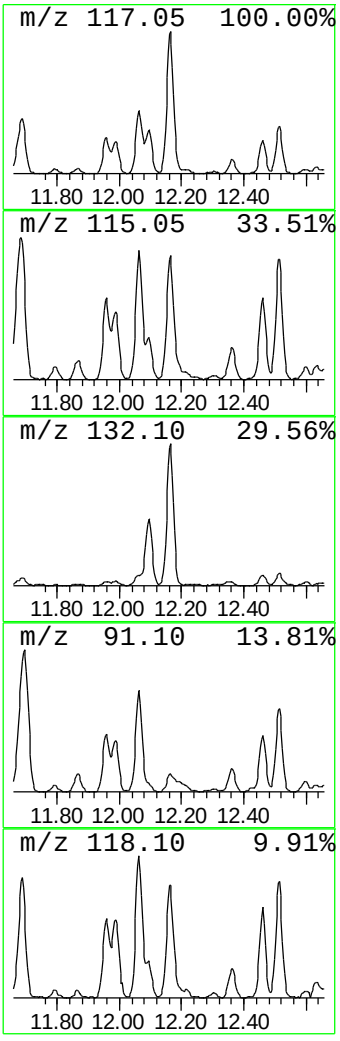
**********

Peak Number 46 Benzene, 1-ethenyl-3-ethyl- Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.16 | 49.47 ug/L | 1189960 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-3-ethyl- | 132 | C10H12 | 007525-62-4 | 91 |
| 2 | Indan, 1-methyl- | 132 | C10H12 | 000767-58-8 | 90 |
| 3 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 87 |
| 4 | 1-Phenyl-1-butene | 132 | C10H12 | 000824-90-8 | 87 |
| 5 | Benzene, (2-methyl-1-propenyl)- | 132 | C10H12 | 000768-49-0 | 86 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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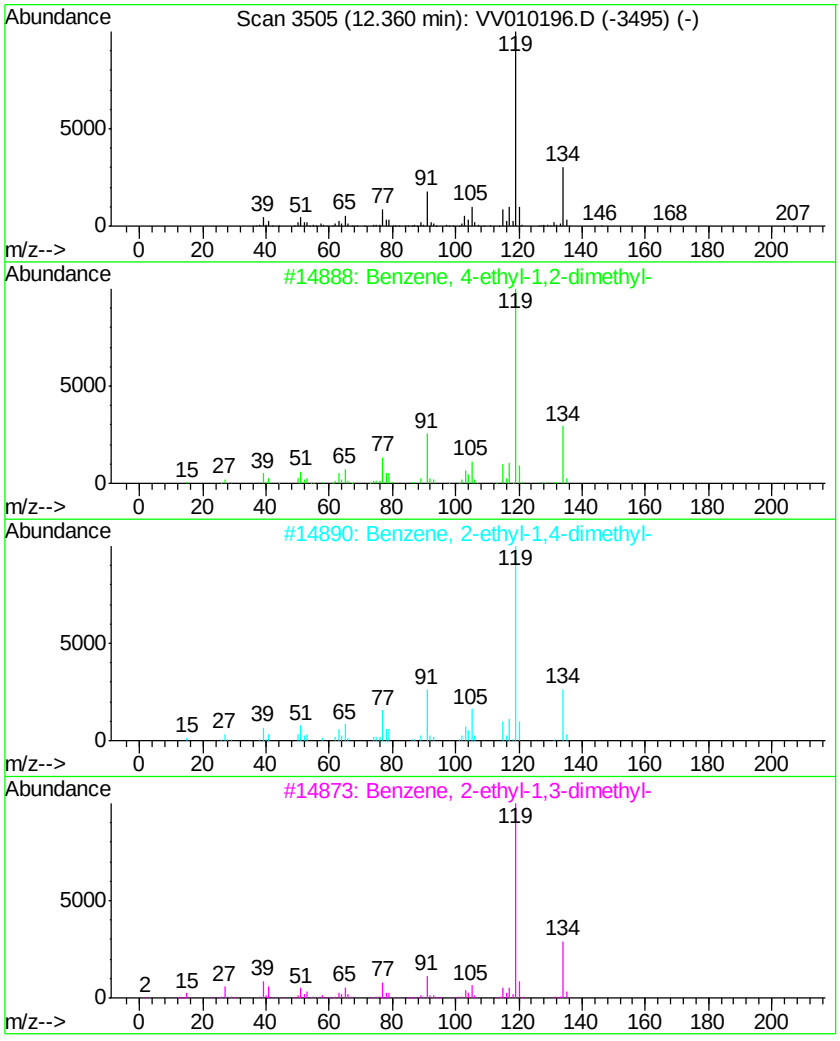
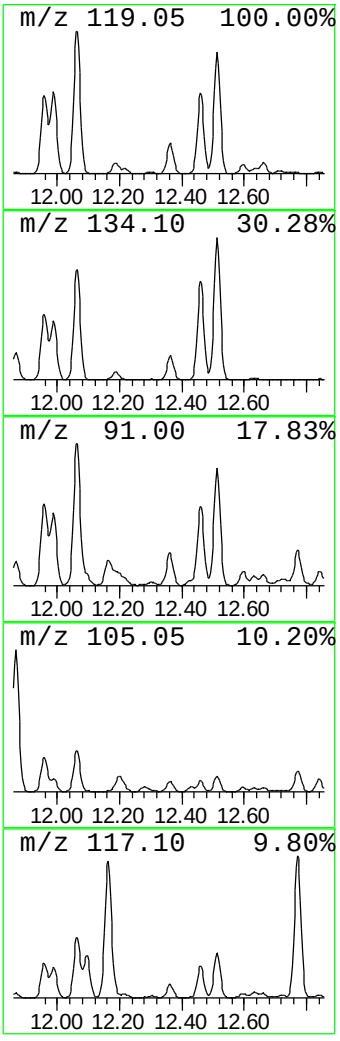
Peak Number 48 Benzene, 4-ethyl-1,2-dimethyl- Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.36 | 28.42 ug/L | 683672 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 4-ethyl-1,2-dimethyl- | 134 | C10H14 | 000934-80-5 | 96 |
| 2 | Benzene, 2-ethyl-1,4-dimethyl- | 134 | C10H14 | 001758-88-9 | 96 |
| 3 | Benzene, 2-ethyl-1,3-dimethyl- | 134 | C10H14 | 002870-04-4 | 95 |
| 4 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |
| 5 | o-Cymene | 134 | C10H14 | 000527-84-4 | 95 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

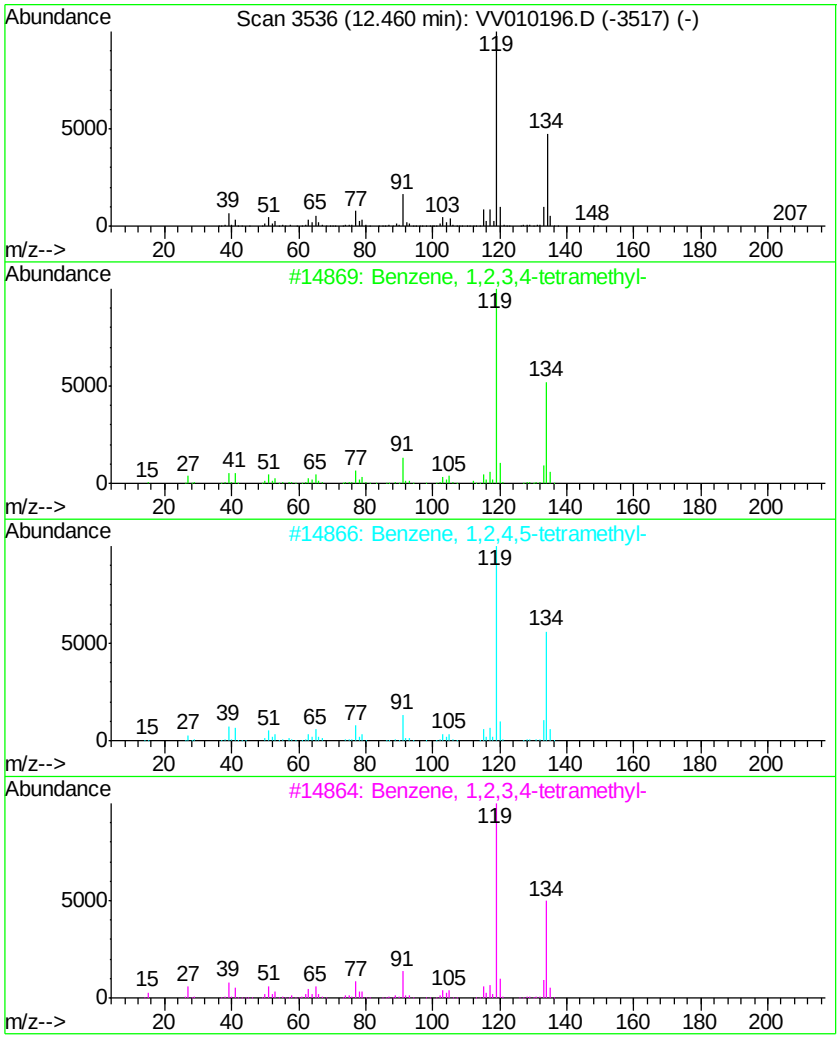
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

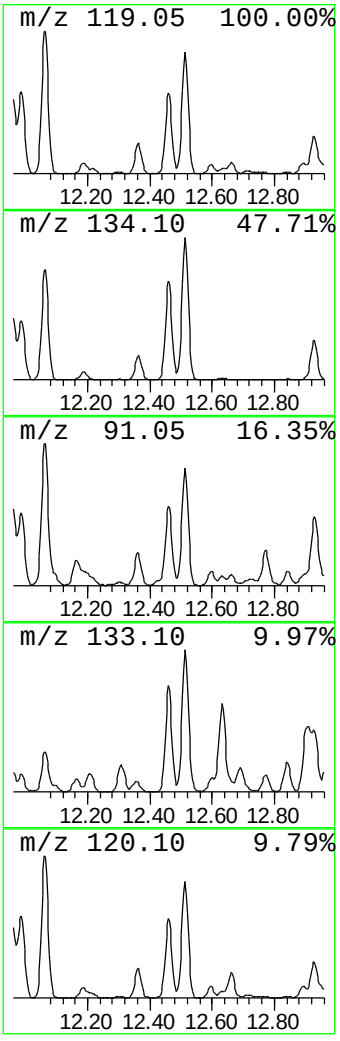
**********

Peak Number 49 Benzene, 1,2,3,4-tetramethyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.46 | 78.74 ug/L | 1893890 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 97 |
| 2 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 97 |
| 3 | Benzene, 1,2,3,4-tetramethyl- | 134 | C10H14 | 000488-23-3 | 97 |
| 4 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 96 |
| 5 | Benzene, 1,2,4,5-tetramethyl- | 134 | C10H14 | 000095-93-2 | 95 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

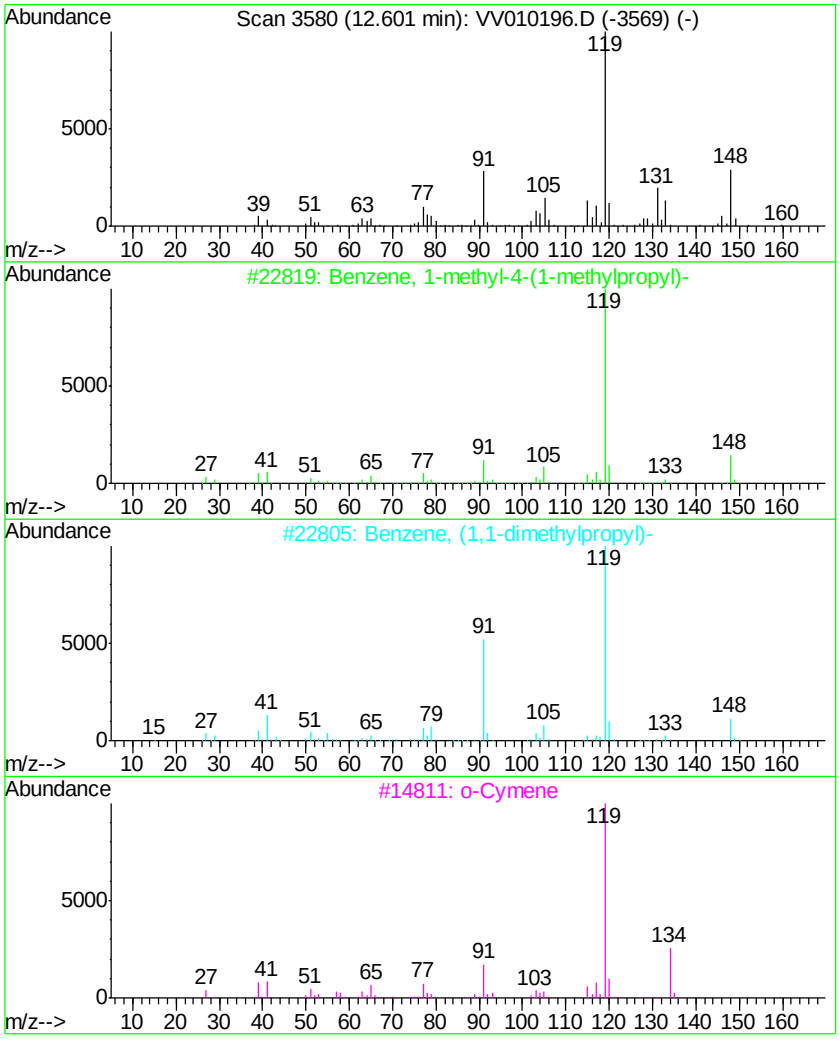
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

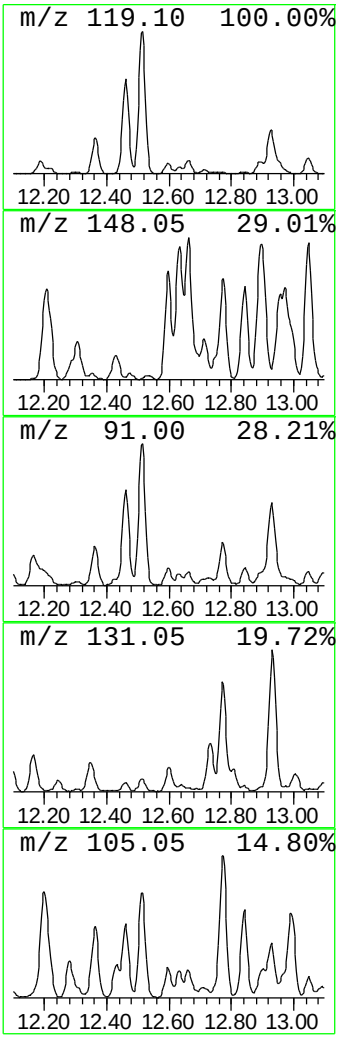
**********

Peak Number 51 Benzene, 1-methyl-4-(1-meth... Concentration Rank 29

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.60 | 10.04 ug/L | 241545 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-methyl-4-(1-methylpro... | 148 | C11H16 | 001595-16-0 | 81 |
| 2 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 64 |
| 3 | o-Cymene | 134 | C10H14 | 000527-84-4 | 64 |
| 4 | 2-Ethyl-2-methyl-1,3-dithiolane | 148 | C6H12S2 | 006008-81-7 | 64 |
| 5 | Benzene, (1,1-dimethylpropyl)- | 148 | C11H16 | 002049-95-8 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

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

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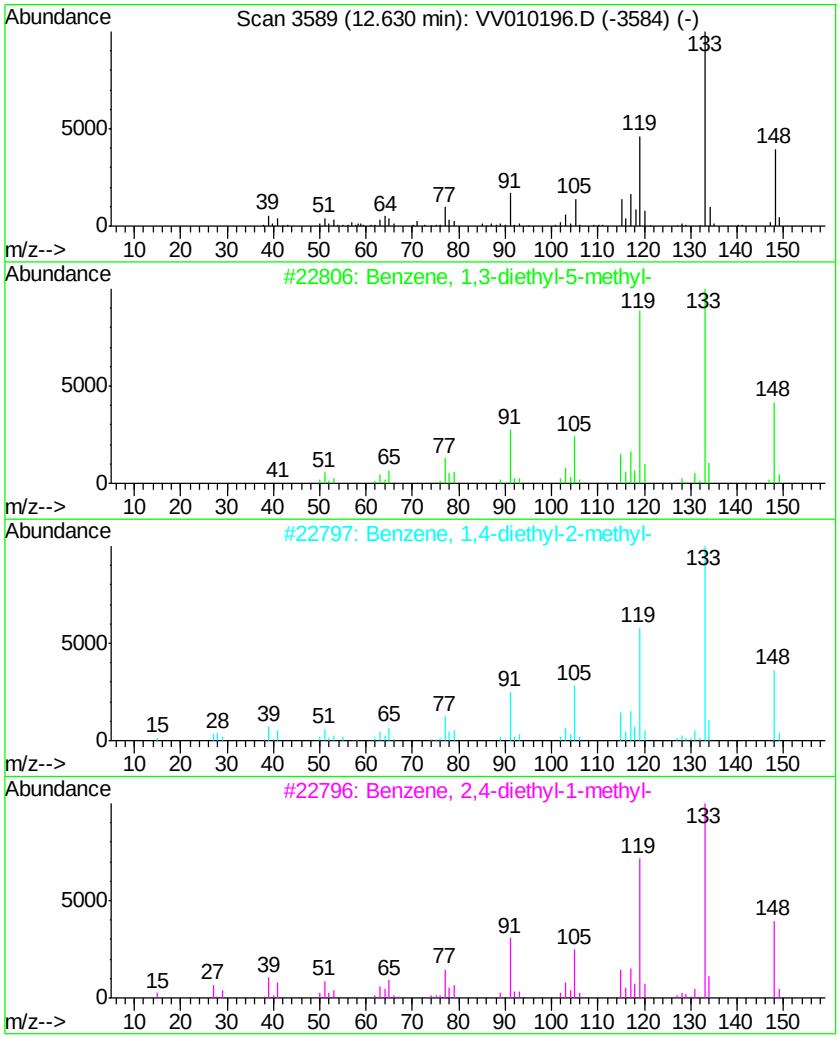
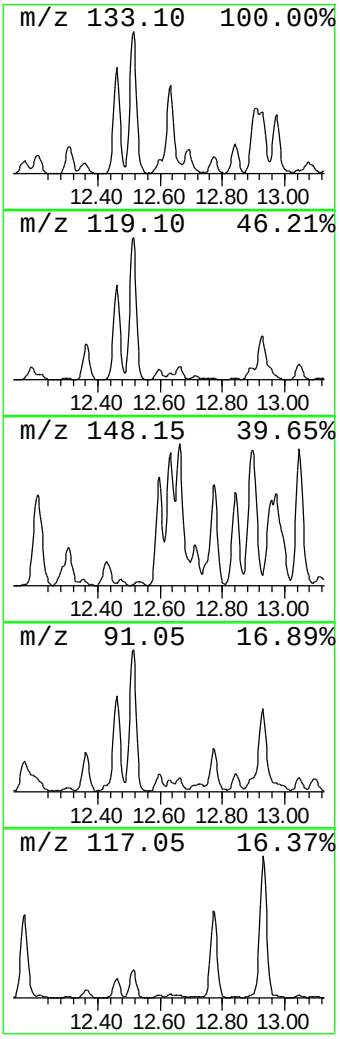
Peak Number 52 Benzene, 1,3-diethyl-5-methyl- Concentration Rank 56

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.63 | 4.80 ug/L | 115537 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16 | 002050-24-0 | 94 |
| 2 | Benzene, 1,4-diethyl-2-methyl- | 148 | C11H16 | 013632-94-5 | 94 |
| 3 | Benzene, 2,4-diethyl-1-methyl- | 148 | C11H16 | 001758-85-6 | 91 |
| 4 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 80 |
| 5 | Benzene, 1,3-diethyl-5-methyl- | 148 | C11H16 | 002050-24-0 | 76 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

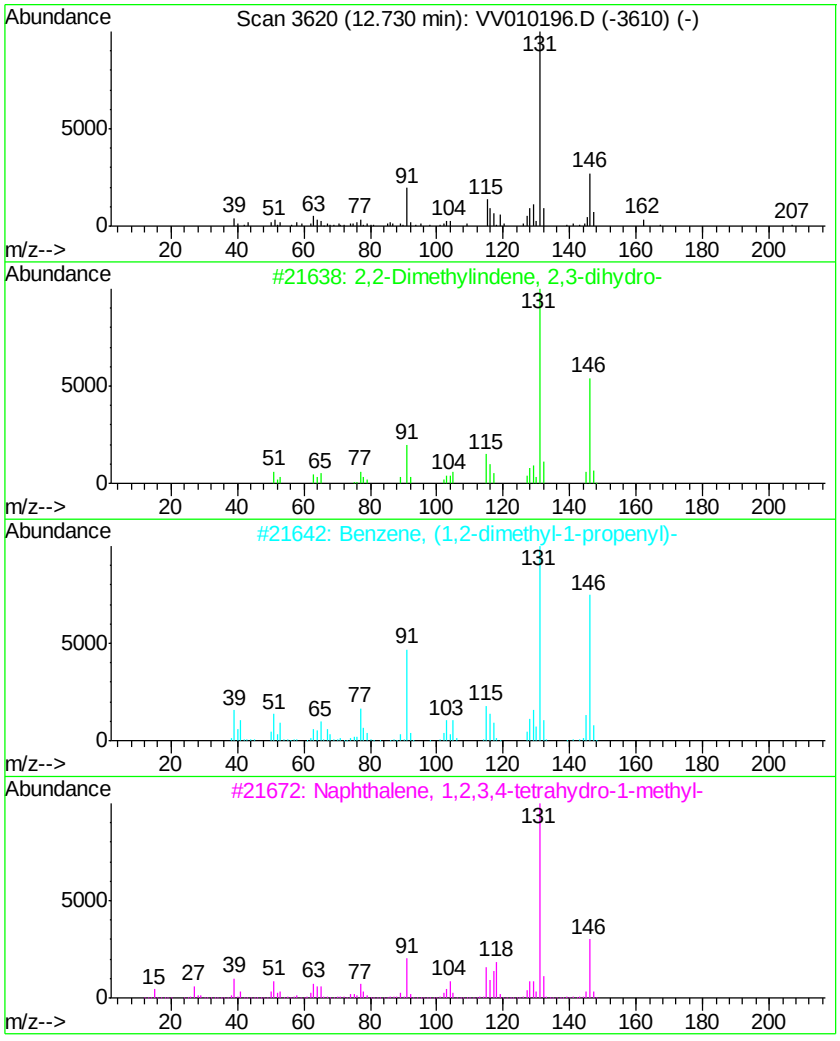
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

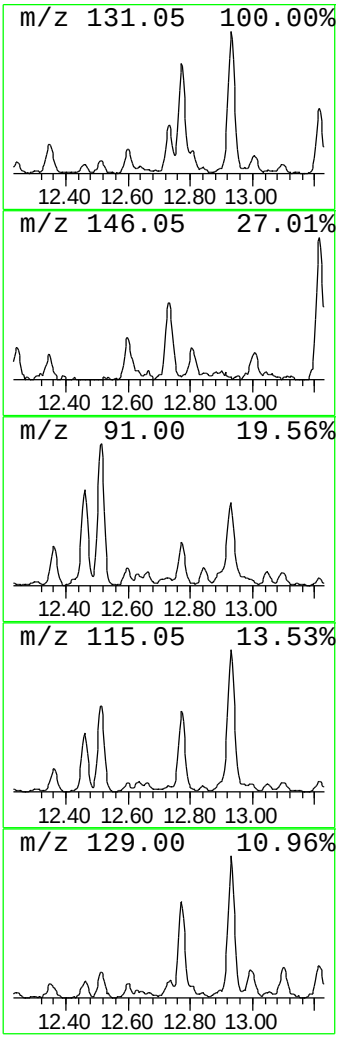
**********

Peak Number 54 2,2-Dimethylindene, 2,3-dih... Concentration Rank 69

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.73 | 2.89 ug/L | 69448 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2,2-Dimethylindene, 2,3-dihydro- | 146 | C11H14 | 020836-11-7 | 94 |
| 2 | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14 | 000769-57-3 | 91 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001559-81-5 | 91 |
| 4 | Benzene, 1-methyl-2-(1-methyl-2-... | 146 | C11H14 | 097664-19-2 | 90 |
| 5 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 90 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

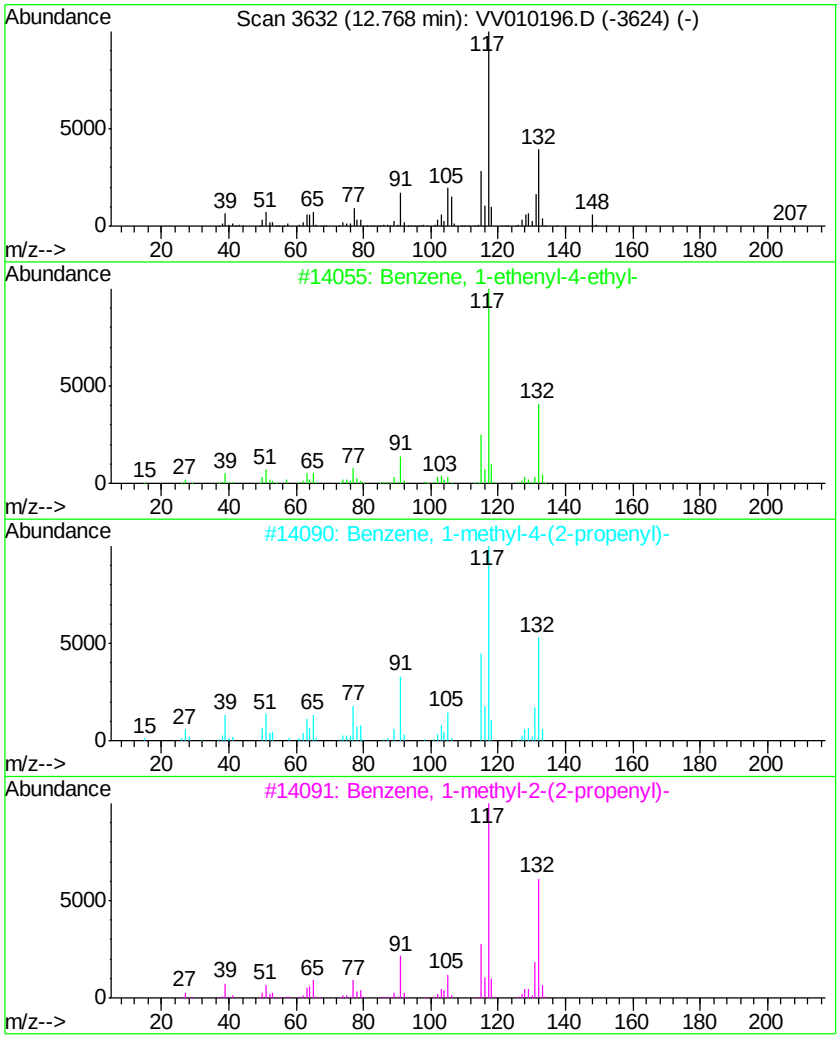
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

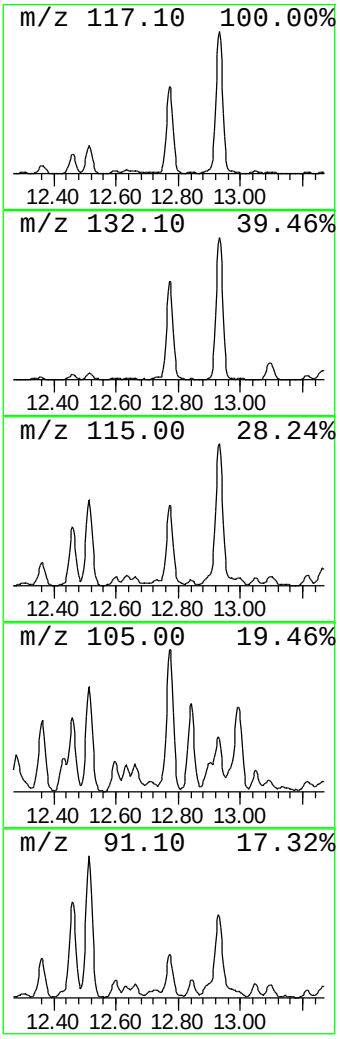
**********

Peak Number 55 Benzene, 1-ethenyl-4-ethyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.77 | 40.79 ug/L | 981099 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1-ethenyl-4-ethyl- | 132 | C10H12 | 003454-07-7 | 93 |
| 2 | Benzene, 1-methyl-4-(2-propenyl)- | 132 | C10H12 | 003333-13-9 | 92 |
| 3 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 91 |
| 4 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 91 |
| 5 | Benzene, 2-butenyl- | 132 | C10H12 | 001560-06-1 | 83 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

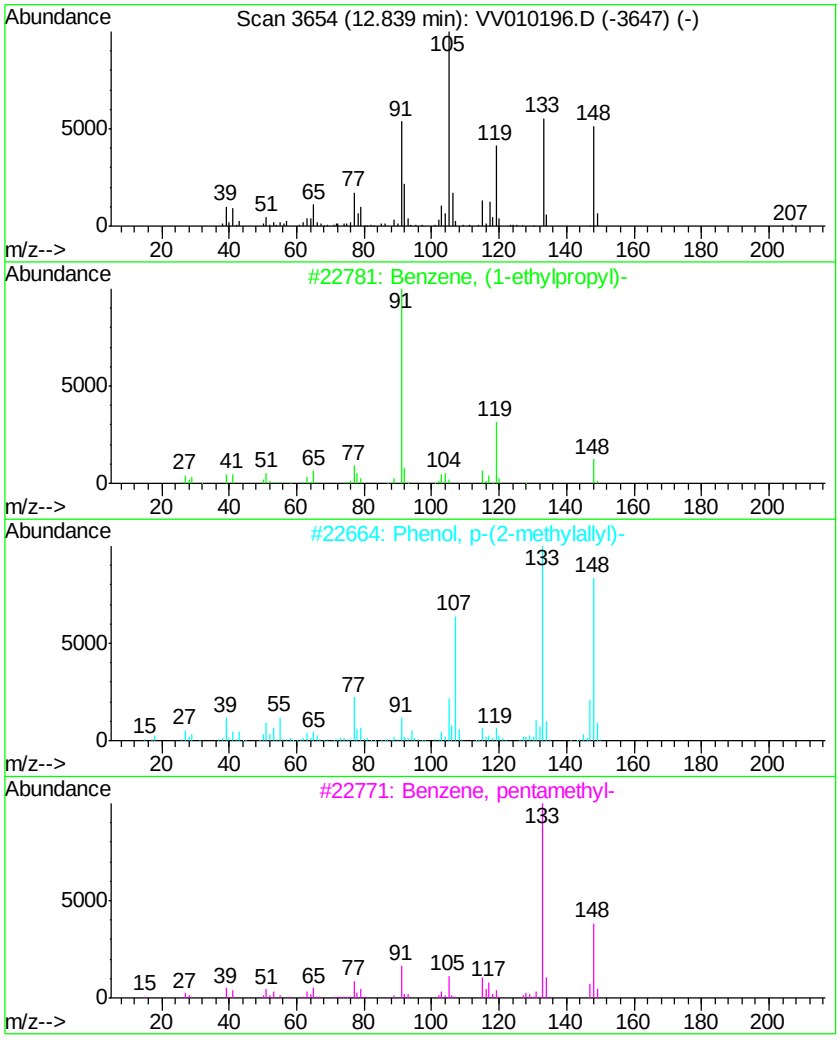
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

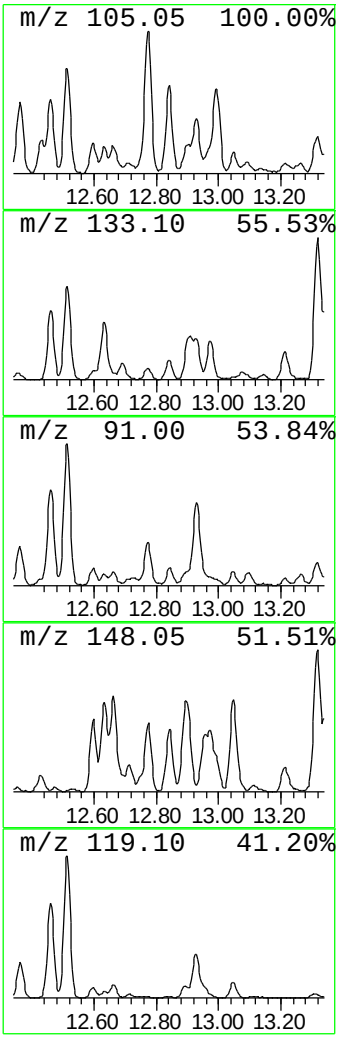
**********

Peak Number 56 Benzene, (1-ethylpropyl)- Concentration Rank 52

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.84 | 5.73 ug/L | 137751 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1-ethylpropyl)- | 148 | C11H16 | 001196-58-3 | 50 |
| 2 | Phenol, p-(2-methylallyl)- | 148 | C10H12O | 033641-78-0 | 46 |
| 3 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 46 |
| 4 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 46 |
| 5 | Benzene, 1-ethyl-3-(1-methylethyl)- | 148 | C11H16 | 004920-99-4 | 46 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

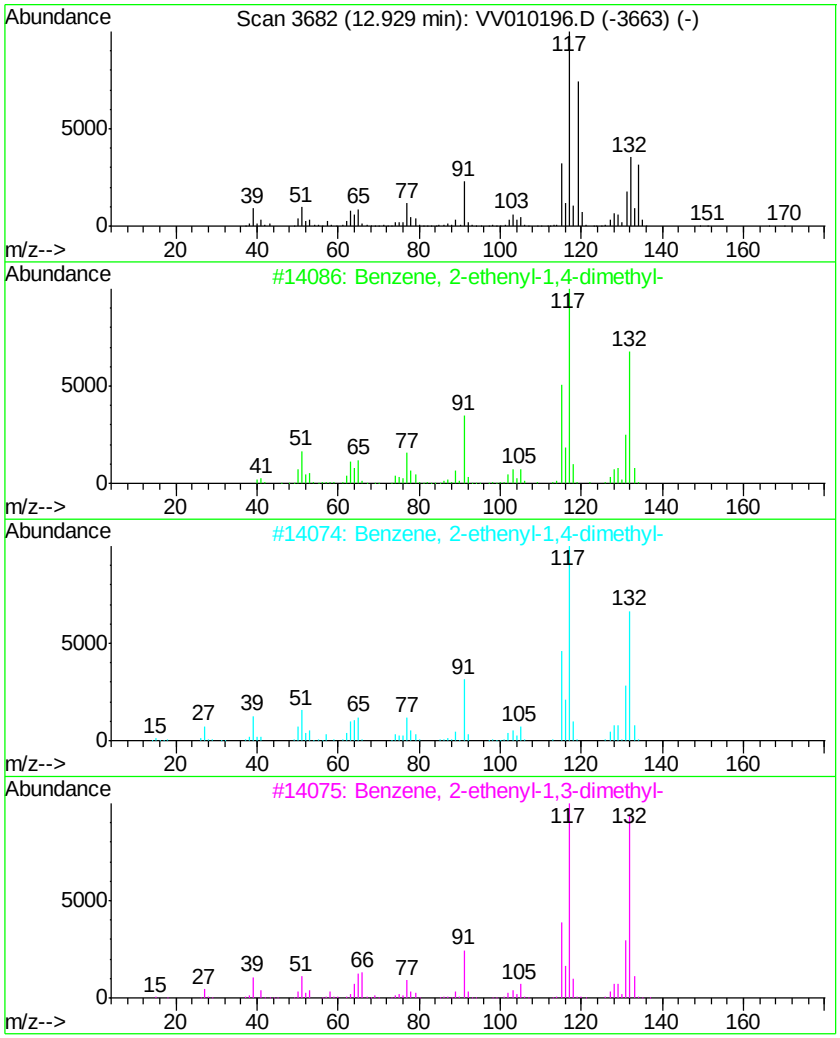
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

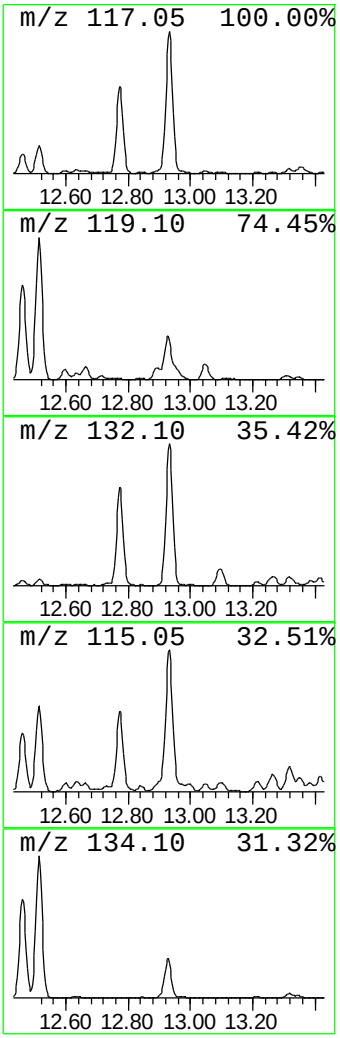
**********

Peak Number 57 Benzene, 2-ethenyl-1,4-dime... Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.93 | 106.47 ug/L | 2560940 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 89 |
| 2 | Benzene, 2-ethenyl-1,4-dimethyl- | 132 | C10H12 | 002039-89-6 | 89 |
| 3 | Benzene, 2-ethenyl-1,3-dimethyl- | 132 | C10H12 | 002039-90-9 | 78 |
| 4 | Benzene, 1-methyl-2-(2-propenyl)- | 132 | C10H12 | 001587-04-8 | 60 |
| 5 | Benzene, (1-methyl-1-propenyl)-,... | 132 | C10H12 | 000768-00-3 | 60 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

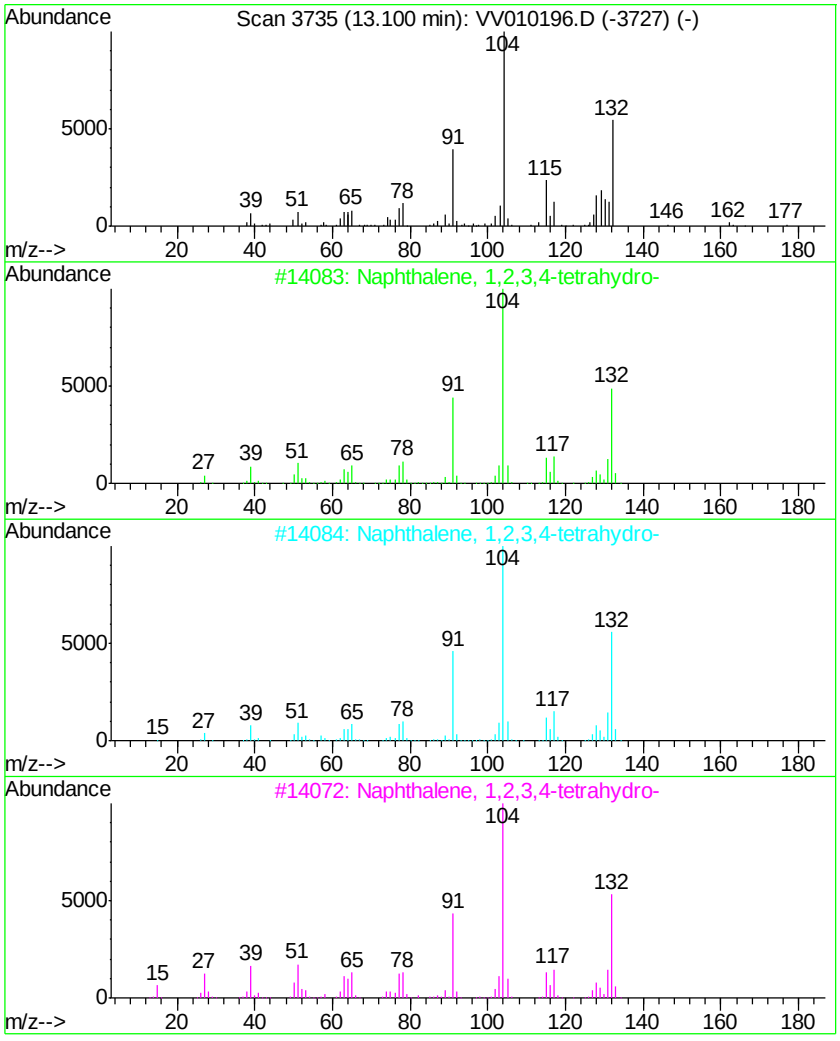
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

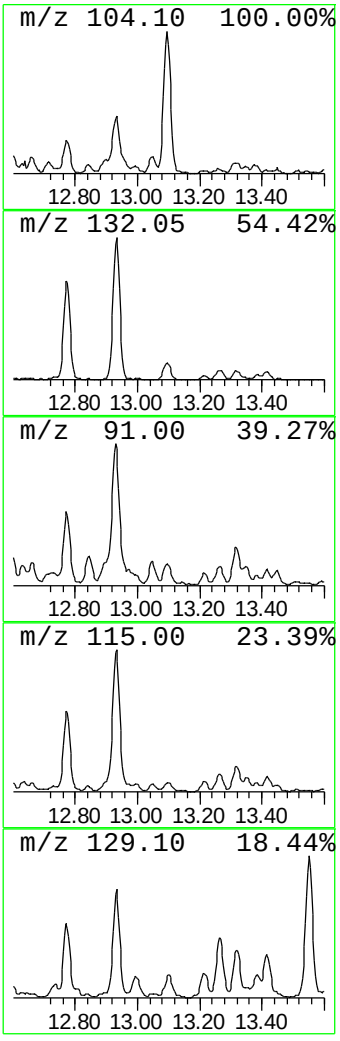
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 59 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 46

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.10 | 6.22 ug/L | 149678 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 90 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 81 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 81 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro- | 132 | C10H12 | 000119-64-2 | 76 |
| 5 | 2H-Inden-2-one, 1,3-dihydro- | 132 | C9H8O | 000615-13-4 | 43 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

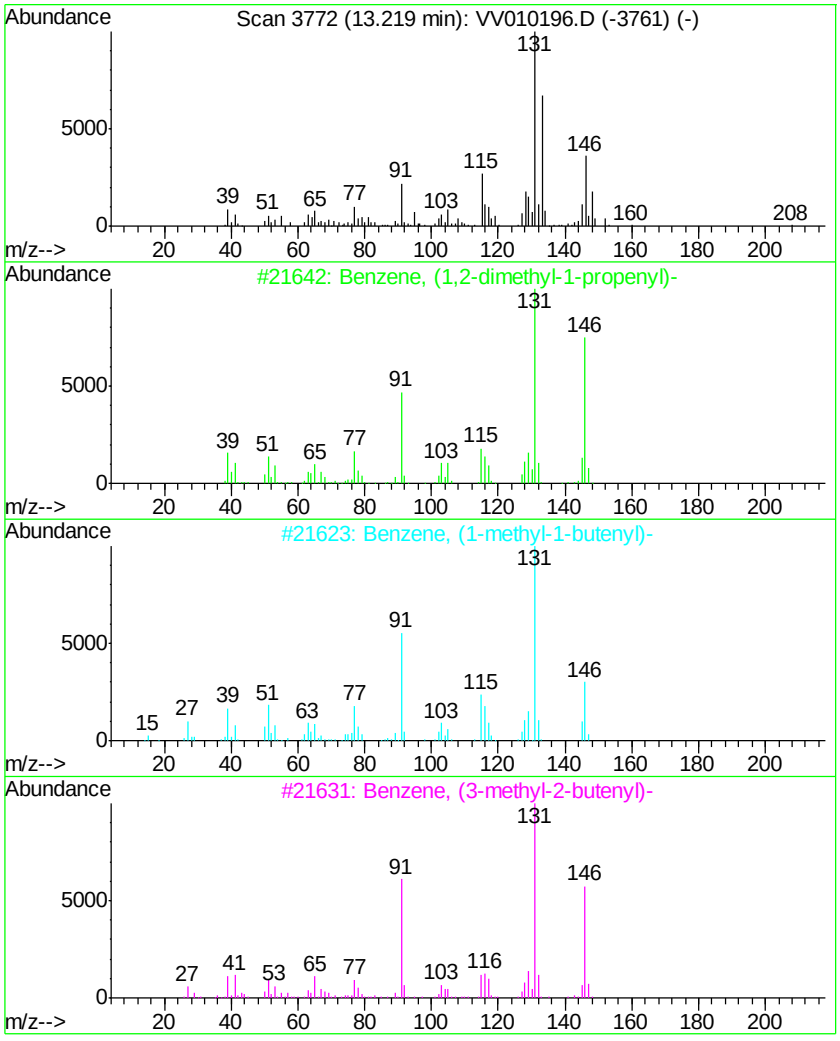
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

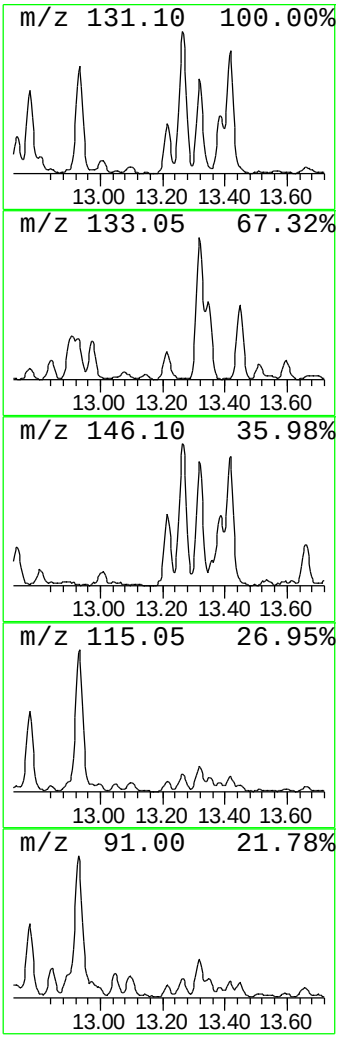
**********

Peak Number 60 Benzene, (1,2-dimethyl-1-pr... Concentration Rank 38

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.22 | 8.52 ug/L | 204859 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (1,2-dimethyl-1-propenyl)- | 146 | C11H14 | 000769-57-3 | 91 |
| 2 | Benzene, (1-methyl-1-butenyl)- | 146 | C11H14 | 053172-84-2 | 90 |
| 3 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 70 |
| 4 | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14 | 004175-53-5 | 60 |
| 5 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 60 |



# Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

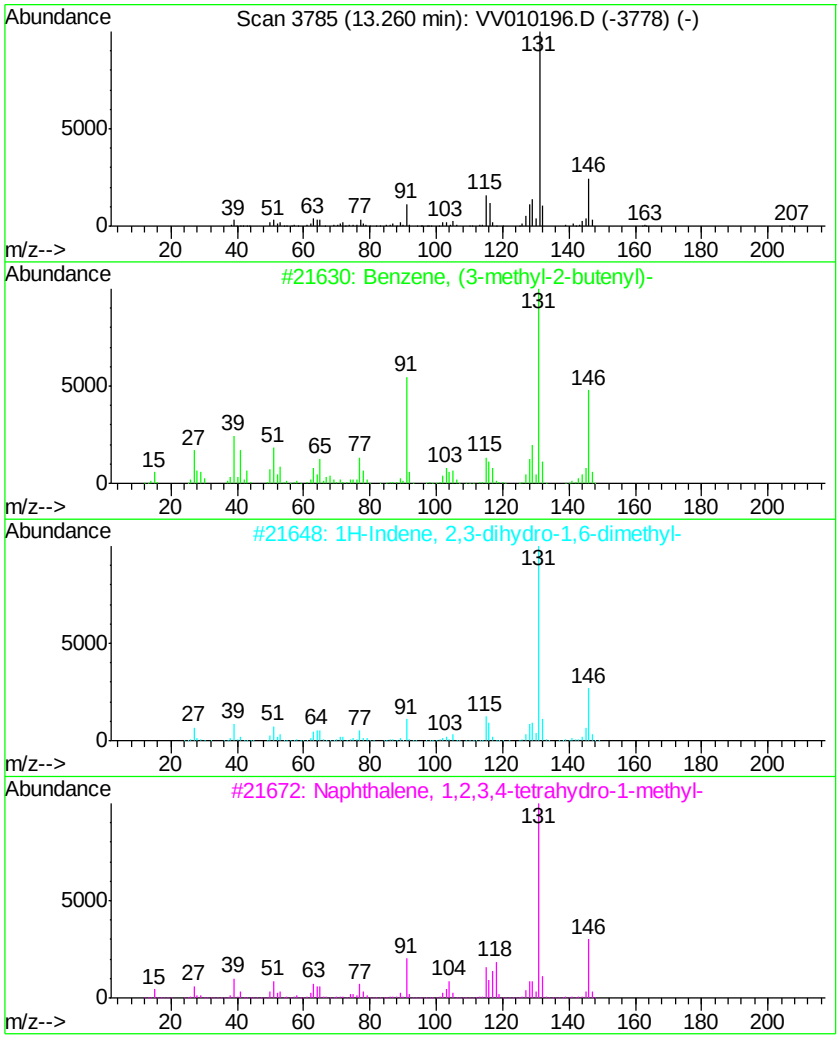
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

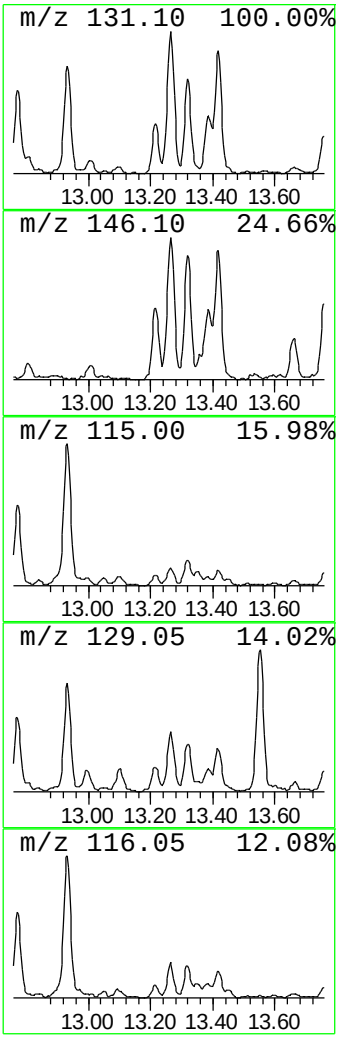
**********

Peak Number 61 Benzene, (3-methyl-2-butenyl)- Concentration Rank 32

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.26 | 9.75 ug/L | 234427 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 94 |
| 2 | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14 | 017059-48-2 | 94 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 001559-81-5 | 91 |
| 4 | Benzene, (3-methyl-2-butenyl)- | 146 | C11H14 | 004489-84-3 | 91 |
| 5 | 1H-Indene, 2,3-dihydro-1,3-dimet... | 146 | C11H14 | 004175-53-5 | 91 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

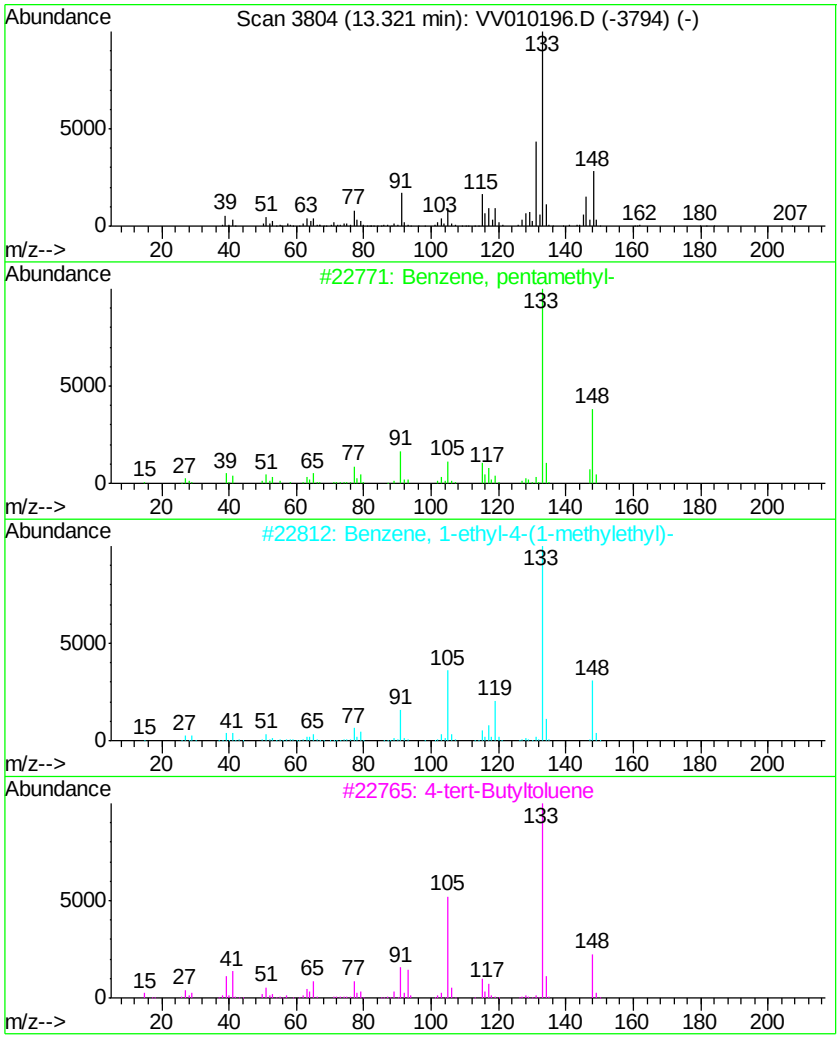
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

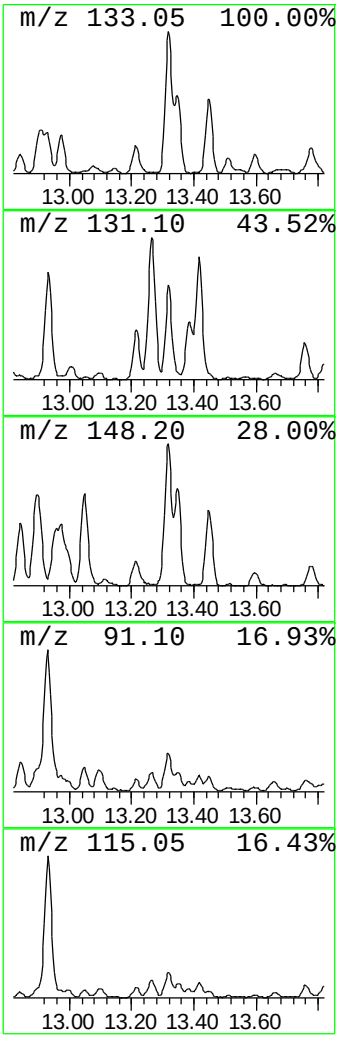
**********

Peak Number 62 Benzene, pentamethyl- Concentration Rank 20

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.32 | 22.28 ug/L | 535819 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 58 |
| 2 | Benzene, 1-ethyl-4-(1-methylethyl)- | 148 | C11H16 | 004218-48-8 | 53 |
| 3 | 4-tert-Butyltoluene | 148 | C11H16 | 000098-51-1 | 53 |
| 4 | 3,4-Dimethylcumene | 148 | C11H16 | 1000370-34-1 | 52 |
| 5 | Benzene, 1,3-dimethyl-5-(1-methy... | 148 | C11H16 | 004706-90-5 | 52 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

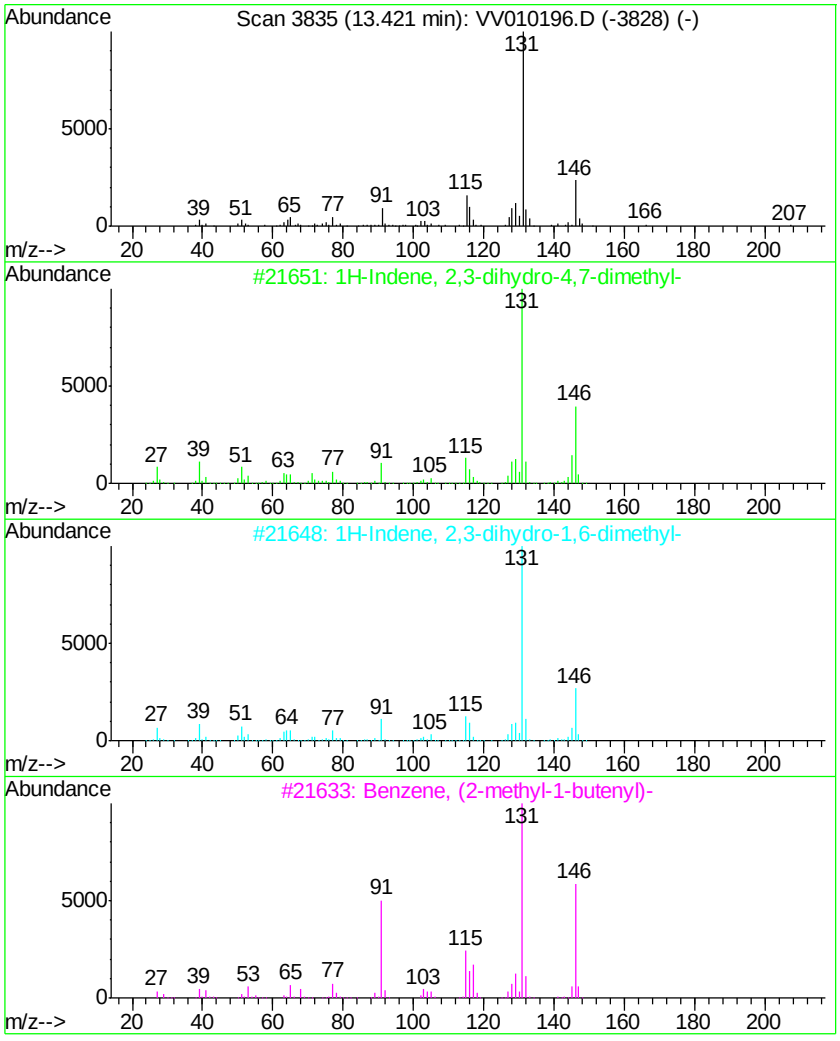
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

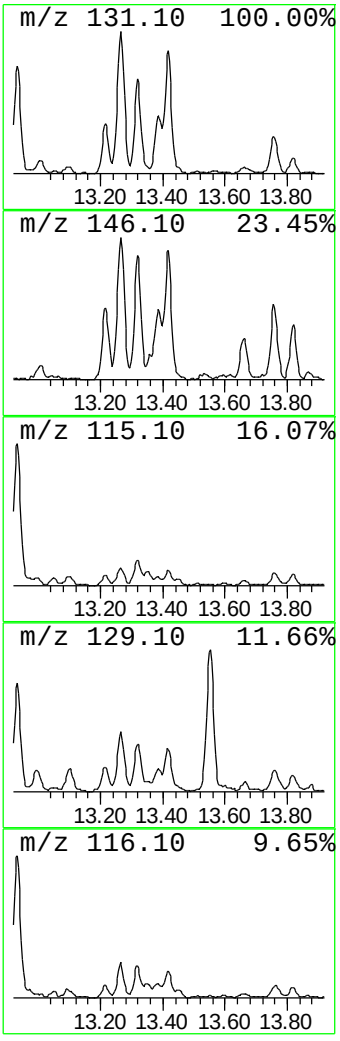
**********

Peak Number 63 1H-Indene, 2,3-dihydro-4,7-... Concentration Rank 54

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.42 | 5.13 ug/L | 123453 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 94 |
| 2 | 1H-Indene, 2,3-dihydro-1,6-dimet... | 146 | C11H14 | 017059-48-2 | 94 |
| 3 | Benzene, (2-methyl-1-butenyl)- | 146 | C11H14 | 056253-64-6 | 91 |
| 4 | 1H-Indene, 2,3-dihydro-4,7-dimet... | 146 | C11H14 | 006682-71-9 | 91 |
| 5 | 1H-Indene, 2,3-dihydro-1,2-dimet... | 146 | C11H14 | 017057-82-8 | 91 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

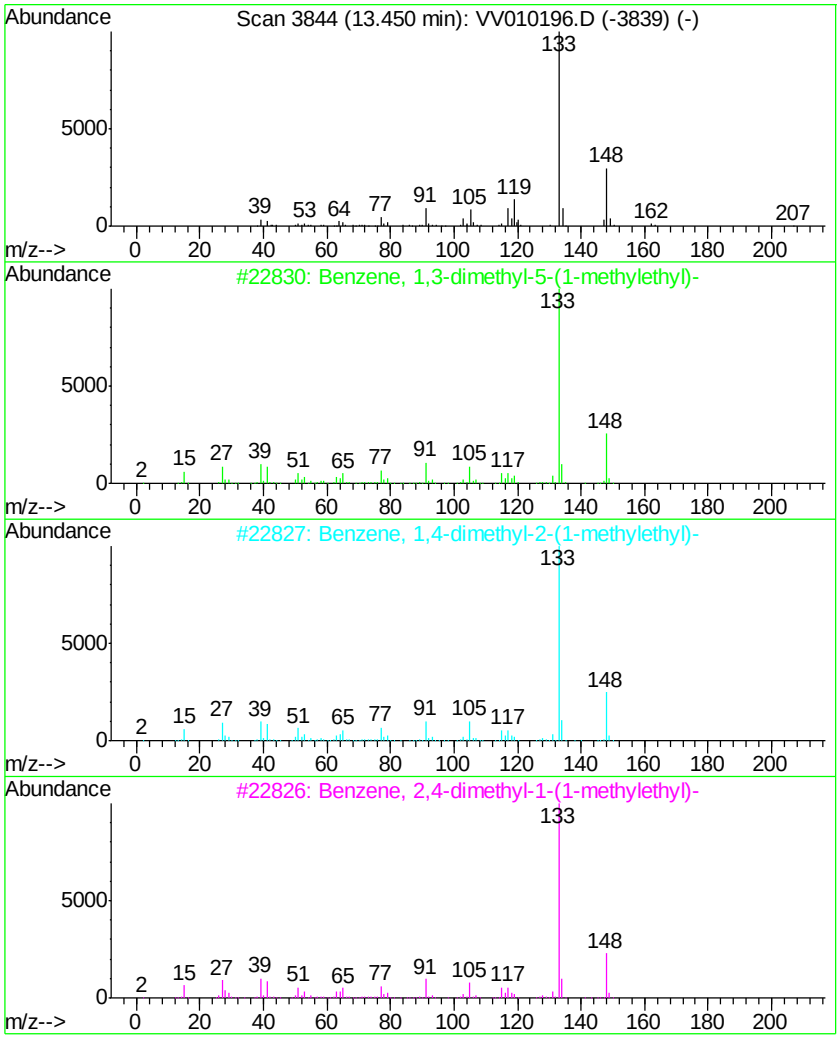
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

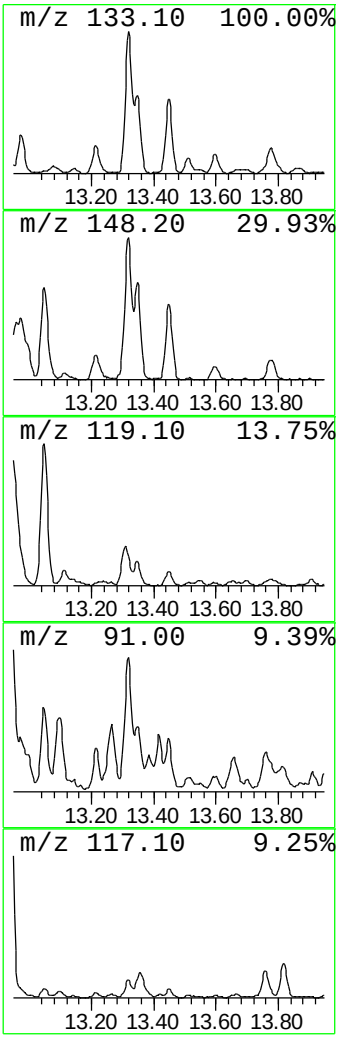
**********

Peak Number 64 Benzene, 1,3-dimethyl-5-(1-... Concentration Rank 41

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.45 | 7.45 ug/L | 179262 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, 1,3-dimethyl-5-(1-methy... | 148 | C11H16 | 004706-90-5 | 87 |
| 2 | Benzene, 1,4-dimethyl-2-(1-methy... | 148 | C11H16 | 004132-72-3 | 86 |
| 3 | Benzene, 2,4-dimethyl-1-(1-methy... | 148 | C11H16 | 004706-89-2 | 80 |
| 4 | 3,4-Dimethylcumene | 148 | C11H16 | 1000370-34-1 | 78 |
| 5 | Benzene, 1-ethyl-3-(1-methylethyl)- | 148 | C11H16 | 004920-99-4 | 72 |



Library Search Compound Report

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

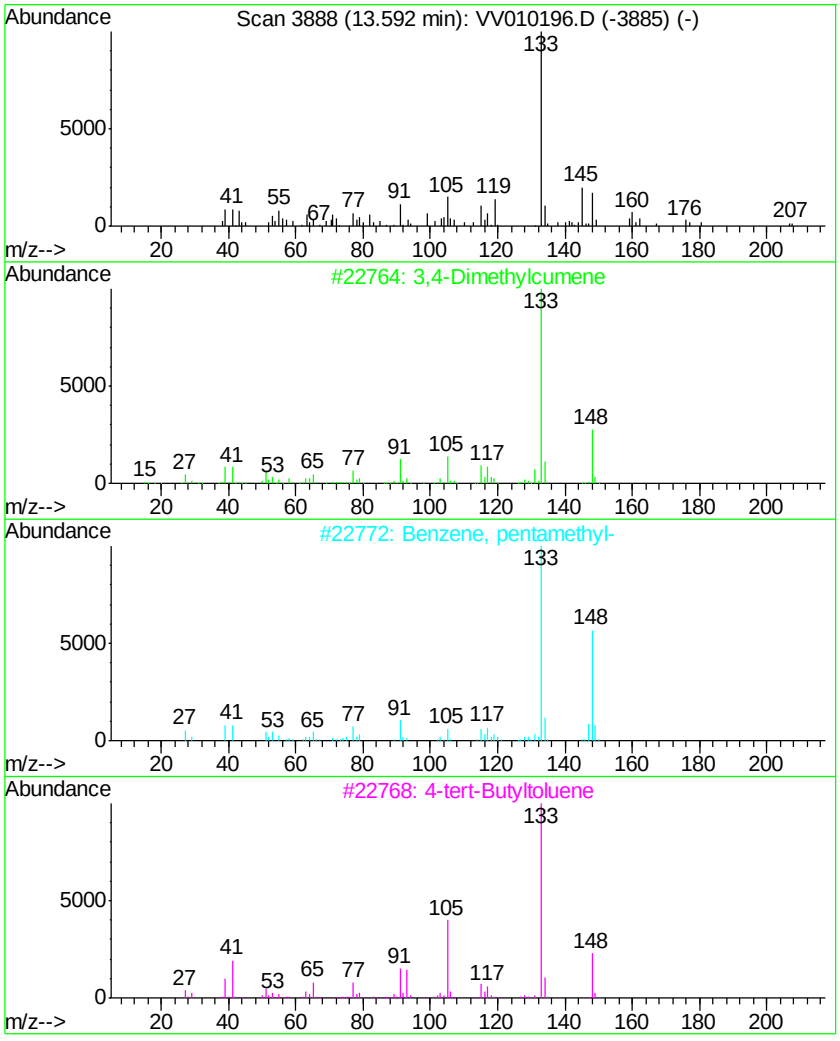
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

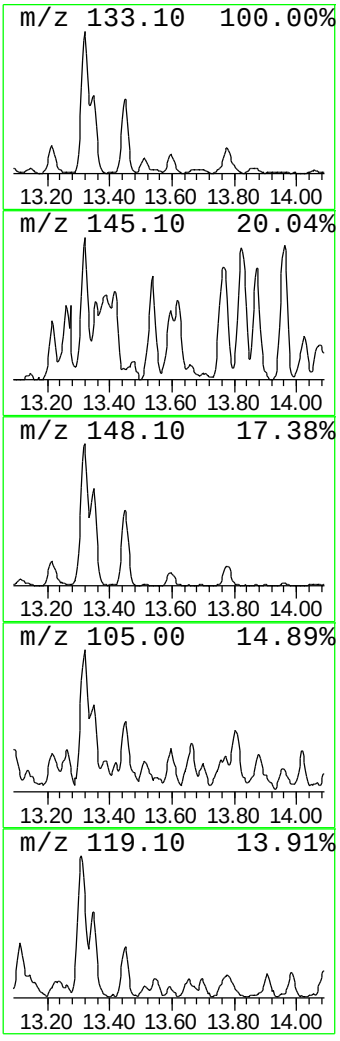
**********

Peak Number 66 3,4-Dimethylcumene Concentration Rank 70

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.59 | 2.71 ug/L | 65210 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 3,4-Dimethylcumene | 148 | C11H16 | 1000370-34-1 | 76 |
| 2 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 76 |
| 3 | 4-tert-Butyltoluene | 148 | C11H16 | 000098-51-1 | 64 |
| 4 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 64 |
| 5 | Benzene, pentamethyl- | 148 | C11H16 | 000700-12-9 | 64 |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.M
Quant Title : VOC Analysis

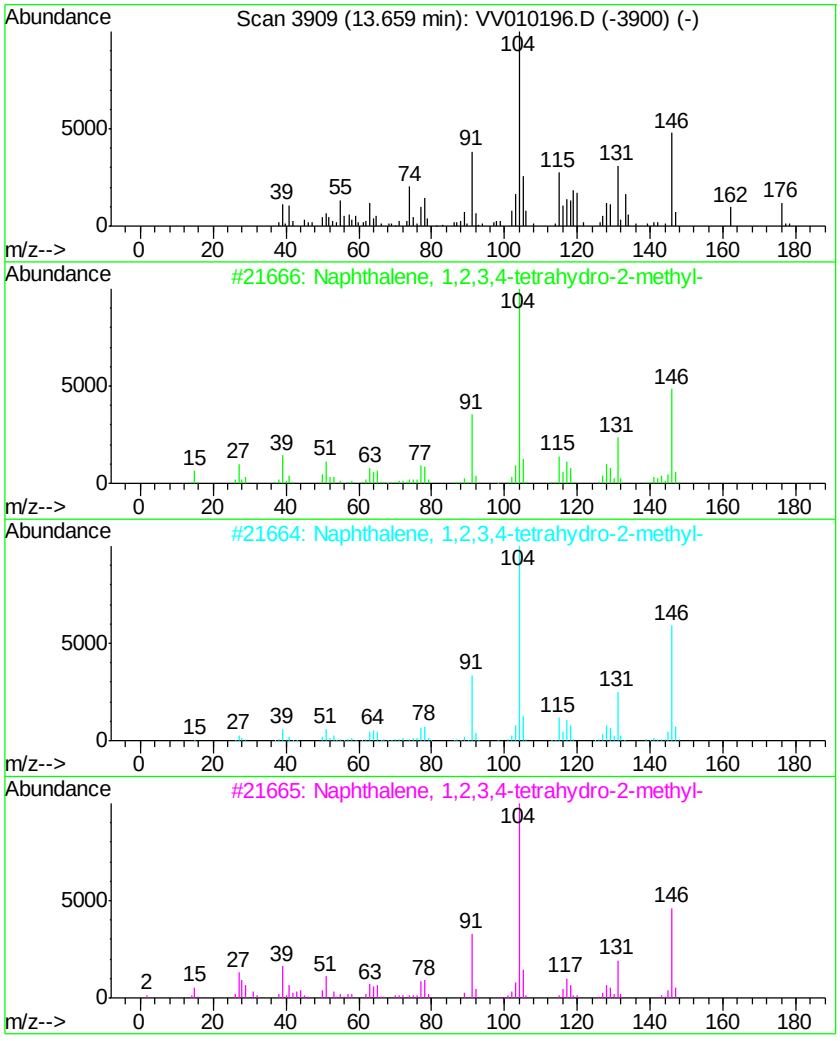
TIC Library : C:\DATABASE\NIST11.L
TIC Integration Parameters: LSCINT.P

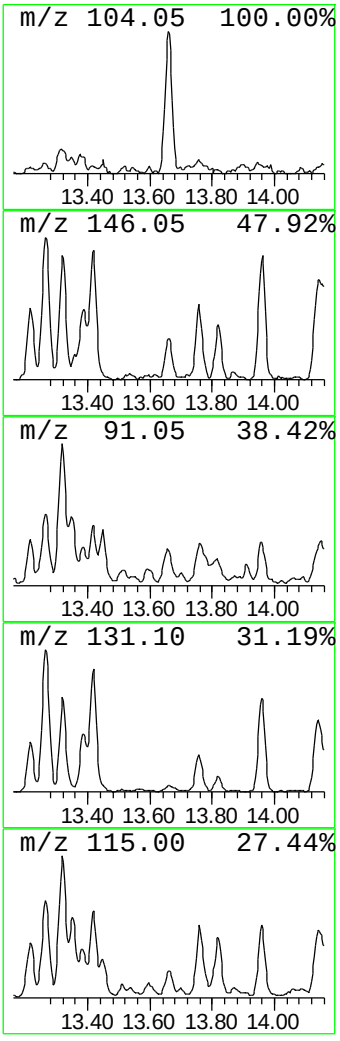
**********

Peak Number 67 Naphthalene, 1,2,3,4-tetrah... Concentration Rank 59

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 13.66 | 4.28 ug/L | 102867 | 1,4-Dichlorobenzene-d4 | 11.30 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 003877-19-8 | 92 |
| 2 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 003877-19-8 | 70 |
| 3 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 003877-19-8 | 58 |
| 4 | Naphthalene, 1,2,3,4-tetrahydro-... | 146 | C11H14 | 003877-19-8 | 58 |
| 5 | 7-Azabicyclo[4.2.2]deca-2,4,9-tr... | 147 | C9H9NO | 017198-06-0 | 50 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_V\DATA\VV040819\
Data File : VV010196.D
Acq On : 09 Apr 2019 01:29
Operator : SY/MD
Sample : K2254-08
Misc : 4.68G/10mL/MSVOA_V/SOIL
ALS Vial : 1 Sample Multiplier: 1

**Instrument :** MSVOA_V
**ClientSampleId :**

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_V\METHOD\SOM2VLM040219S.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... | 1.63 | 5.6 | ug/L | 199283 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 1.81 | 7.1 | ug/L | 254616 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Cyc... | 2.03 | 2.0 | ug/L | 70770 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Cyc... | 2.60 | 6.0 | ug/L | 215797 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 2.78 | 8.7 | ug/L | 310247 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 3.06 | 10.1 | ug/L | 361244 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Cyc... | 3.30 | 1.9 | ug/L | 66408 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Cyc... | 3.80 | 10.6 | ug/L | 378811 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 4.80 | 6.2 | ug/L | 221944 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 4.95 | 13.4 | ug/L | 479375 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Cyc... | 5.22 | 3.8 | ug/L | 135791 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 5.28 | 9.6 | ug/L | 343521 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Cyc... | 5.36 | 5.1 | ug/L | 182333 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 5.53 | 9.7 | ug/L | 348553 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 6.24 | 2.1 | ug/L | 74181 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 6.30 | 2.4 | ug/L | 85358 | 1 | 5.66 | 895604 | 25.0 |
| Propane, 2-methyl... | 6.43 | 7.5 | ug/L | 267195 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Cyc... | 6.50 | 1.9 | ug/L | 66412 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 6.69 | 6.5 | ug/L | 233643 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 6.82 | 10.2 | ug/L | 364965 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 6.96 | 3.8 | ug/L | 134576 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 7.12 | 4.5 | ug/L | 161574 | 1 | 5.66 | 895604 | 25.0 |
| Cyclohexane, meth... | 7.21 | 2.3 | ug/L | 83509 | 1 | 5.66 | 895604 | 25.0 |
| (DEL) Alkane: Str... | 7.61 | 6.1 | ug/L | 181038 | 2 | 8.89 | 736759 | 25.0 |
| (DEL) Alkane: Cyc... | 8.27 | 3.4 | ug/L | 101192 | 2 | 8.89 | 736759 | 25.0 |
| (DEL) Alkane: Str... | 8.71 | 3.4 | ug/L | 99309 | 2 | 8.89 | 736759 | 25.0 |
| (DEL) Alkane: Str... | 8.83 | 3.1 | ug/L | 90317 | 2 | 8.89 | 736759 | 25.0 |
| (DEL) Alkane: Str... | 9.24 | 5.9 | ug/L | 173121 | 2 | 8.89 | 736759 | 25.0 |
| Benzene, propyl- | 10.40 | 88.6 | ug/L | 2131420 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 1-ethyl-... | 10.49 | 374.5 | ug/L | 9008150 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 1-ethyl-... | 10.78 | 129.1 | ug/L | 3106210 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, (2-methy... | 11.10 | 8.7 | ug/L | 208832 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 1-methyl... | 11.13 | 10.0 | ug/L | 239803 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 1,2,3-tr... | 11.38 | 176.0 | ug/L | 4232680 | 3 | 11.30 | 601328 | 25.0 |
| Indane | 11.58 | 99.7 | ug/L | 2398170 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 1-methyl... | 11.62 | 74.8 | ug/L | 1799690 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 1,2-diet... | 11.79 | 8.0 | ug/L | 192699 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 2-ethyl-... | 11.96 | 71.1 | ug/L | 1710790 | 3 | 11.30 | 601328 | 25.0 |
| o-Cymene | 11.99 | 59.2 | ug/L | 1422900 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 1-etheny... | 12.16 | 49.5 | ug/L | 1189960 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 4-ethyl-... | 12.36 | 28.4 | ug/L | 683672 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 1,2,3,4-... | 12.46 | 78.7 | ug/L | 1893890 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 1-methyl... | 12.60 | 10.0 | ug/L | 241545 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 1,3-diet... | 12.63 | 4.8 | ug/L | 115537 | 3 | 11.30 | 601328 | 25.0 |
| 2,2-Dimethylinden... | 12.73 | 2.9 | ug/L | 69448 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 1-etheny... | 12.77 | 40.8 | ug/L | 981099 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, (1-ethyl... | 12.84 | 5.7 | ug/L | 137751 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 2-etheny... | 12.93 | 106.5 | ug/L | 2560940 | 3 | 11.30 | 601328 | 25.0 |
| Naphthalene, 1,2,... | 13.10 | 6.2 | ug/L | 149678 | 3 | 11.30 | 601328 | 25.0 |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Benzene, (1,2-dim... | 13.22 | 8.5 | ug/L | 204859 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, (3-methy... | 13.26 | 9.8 | ug/L | 234427 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, pentamet... | 13.32 | 22.3 | ug/L | 535819 | 3 | 11.30 | 601328 | 25.0 |
| 1H-Indene, 2,3-di... | 13.42 | 5.1 | ug/L | 123453 | 3 | 11.30 | 601328 | 25.0 |
| Benzene, 1,3-dime... | 13.45 | 7.5 | ug/L | 179262 | 3 | 11.30 | 601328 | 25.0 |
| 3,4-Dimethylcumene | 13.59 | 2.7 | ug/L | 65210 | 3 | 11.30 | 601328 | 25.0 |
| Naphthalene, 1,2,... | 13.66 | 4.3 | ug/L | 102867 | 3 | 11.30 | 601328 | 25.0 |

**Instrument :**
MSVOA_V
**ClientSampleId :**