LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Title : VOC Analysis

Signal : TIC: VU045158.D\data.ms

| peak # | R.T. min | first scan | max scan | last scan | PK TY | peak height | corr. area | corr. % max. | % of total |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 1.491 | 41 | 47 | 66 | rVB2 | 30517 | 45417 | 1.34% | 0.210% |
| 2 | 1.604 | 72 | 82 | 93 | rBV2 | 305878 | 349398 | 10.34% | 1.618% |
| 3 | 1.662 | 94 | 100 | 115 | rVB | 58219 | 63705 | 1.89% | 0.295% |
| 4 | 1.735 | 116 | 123 | 131 | rBV | 35251 | 40112 | 1.19% | 0.186% |
| 5 | 1.906 | 167 | 176 | 191 | rVB | 138052 | 196792 | 5.83% | 0.911% |
| 6 | 1.989 | 193 | 202 | 218 | rVB | 201656 | 282441 | 8.36% | 1.308% |
| 7 | 2.218 | 260 | 273 | 288 | rVB3 | 74043 | 143321 | 4.24% | 0.664% |
| 8 | 2.317 | 295 | 304 | 321 | rVB | 61778 | 92025 | 2.72% | 0.426% |
| 9 | 2.417 | 327 | 335 | 341 | rBV | 18782 | 25962 | 0.77% | 0.120% |
| 10 | 2.469 | 341 | 351 | 369 | rVB | 188595 | 296841 | 8.79% | 1.374% |
| 11 | 2.568 | 369 | 382 | 403 | rBV | 279906 | 469191 | 13.89% | 2.172% |
| 12 | 3.022 | 496 | 523 | 537 | rBV3 | 36399 | 98688 | 2.92% | 0.457% |
| 13 | 3.141 | 551 | 560 | 581 | rVB2 | 31266 | 70156 | 2.08% | 0.325% |
| 14 | 3.366 | 617 | 630 | 643 | rVB2 | 13772 | 29495 | 0.87% | 0.137% |
| 15 | 3.575 | 685 | 695 | 713 | rVB4 | 5155 | 11138 | 0.33% | 0.052% |
| 16 | 3.697 | 723 | 733 | 734 | rBV2 | 2953 | 2950 | 0.09% | 0.014% |
| 17 | 3.835 | 765 | 776 | 790 | rVV4 | 3298 | 7644 | 0.23% | 0.035% |
| 18 | 3.922 | 790 | 803 | 810 | rVV5 | 2858 | 7121 | 0.21% | 0.033% |
| 19 | 3.983 | 811 | 822 | 837 | rVB2 | 14086 | 32412 | 0.96% | 0.150% |
| 20 | 4.092 | 843 | 856 | 871 | rBV3 | 9555 | 23958 | 0.71% | 0.111% |
| 21 | 4.176 | 872 | 882 | 898 | rVV4 | 6413 | 16567 | 0.49% | 0.077% |
| 22 | 4.253 | 898 | 906 | 918 | rVV5 | 2655 | 5684 | 0.17% | 0.026% |
| 23 | 4.340 | 918 | 933 | 949 | rVB2 | 13901 | 32604 | 0.97% | 0.151% |
| 24 | 4.440 | 949 | 964 | 972 | rBV5 | 1570 | 3372 | 0.10% | 0.016% |
| 25 | 4.536 | 977 | 994 | 1008 | rBV2 | 36612 | 88176 | 2.61% | 0.408% |
| 26 | 4.626 | 1008 | 1022 | 1055 | rVV | 156974 | 381397 | 11.29% | 1.766% |
| 27 | 5.070 | 1143 | 1160 | 1182 | rBV | 241077 | 530358 | 15.70% | 2.456% |
| 28 | 5.182 | 1184 | 1195 | 1210 | rVB2 | 22128 | 46512 | 1.38% | 0.215% |
| 29 | 5.388 | 1243 | 1259 | 1274 | rBV2 | 22463 | 53124 | 1.57% | 0.246% |
| 30 | 5.465 | 1275 | 1283 | 1297 | rVB6 | 4944 | 11895 | 0.35% | 0.055% |
| 31 | 5.600 | 1314 | 1325 | 1333 | rBV3 | 3275 | 6899 | 0.20% | 0.032% |
| 32 | 5.729 | 1344 | 1365 | 1371 | rBV2 | 505124 | 1314545 | 38.91% | 6.086% |
| 33 | 5.777 | 1372 | 1380 | 1396 | rVB | 1709302 | 3378120 | 100.00% | 15.641% |
| 34 | 5.993 | 1438 | 1447 | 1450 | rBV9 | 2163 | 4109 | 0.12% | 0.019% |
| 35 | 6.131 | 1482 | 1490 | 1501 | rBV9 | 2603 | 4809 | 0.14% | 0.022% |
| 36 | 6.253 | 1512 | 1528 | 1564 | rBV | 399598 | 768912 | 22.76% | 3.560% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 37 | 6.465 | 1587 | 1594 | 1602 | rBV6 | 1110 | 1688 | 0.05% | 0.008% |
| 38 | 6.693 | 1651 | 1665 | 1680 | rBV | 321752 | 623547 | 18.46% | 2.887% |
| 39 | 6.928 | 1729 | 1738 | 1748 | rBV3 | 1469 | 2585 | 0.08% | 0.012% |
| 40 | 6.983 | 1748 | 1755 | 1763 | rVB4 | 2106 | 2956 | 0.09% | 0.014% |
| 41 | 7.185 | 1804 | 1818 | 1829 | rBV7 | 3790 | 8146 | 0.24% | 0.038% |
| 42 | 7.259 | 1829 | 1841 | 1850 | rBV4 | 3214 | 5939 | 0.18% | 0.027% |
| 43 | 7.394 | 1870 | 1883 | 1894 | rBV7 | 7806 | 17479 | 0.52% | 0.081% |
| 44 | 7.568 | 1923 | 1937 | 1951 | rBV | 173310 | 304911 | 9.03% | 1.412% |
| 45 | 7.693 | 1969 | 1976 | 1988 | rVB5 | 6979 | 13437 | 0.40% | 0.062% |
| 46 | 7.767 | 1988 | 1999 | 2005 | rVB7 | 3127 | 5489 | 0.16% | 0.025% |
| 47 | 7.854 | 2015 | 2026 | 2027 | rBV4 | 1148 | 1653 | 0.05% | 0.008% |
| 48 | 7.902 | 2027 | 2041 | 2051 | rBV | 625711 | 1058479 | 31.33% | 4.901% |
| 49 | 7.973 | 2051 | 2063 | 2078 | rVB | 1455200 | 2435702 | 72.10% | 11.278% |
| 50 | 8.182 | 2117 | 2128 | 2147 | rVB | 124285 | 204022 | 6.04% | 0.945% |
| 51 | 8.275 | 2151 | 2157 | 2158 | rBV4 | 1716 | 1706 | 0.05% | 0.008% |
| 52 | 8.417 | 2194 | 2201 | 2210 | rBV4 | 879 | 1105 | 0.03% | 0.005% |
| 53 | 8.636 | 2252 | 2269 | 2316 | rBV | 460901 | 810129 | 23.98% | 3.751% |
| 54 | 8.835 | 2323 | 2331 | 2338 | rBV5 | 3239 | 5242 | 0.16% | 0.024% |
| 55 | 9.340 | 2481 | 2488 | 2498 | rBV4 | 1607 | 2747 | 0.08% | 0.013% |
| 56 | 9.420 | 2500 | 2513 | 2528 | rBV | 552413 | 913360 | 27.04% | 4.229% |
| 57 | 9.574 | 2548 | 2561 | 2584 | rBV | 555374 | 878338 | 26.00% | 4.067% |
| 58 | 9.697 | 2586 | 2599 | 2629 | rVV | 461866 | 762173 | 22.56% | 3.529% |
| 59 | 9.825 | 2632 | 2639 | 2647 | rVV6 | 1249 | 1904 | 0.06% | 0.009% |
| 60 | 9.870 | 2649 | 2653 | 2663 | rVB3 | 821 | 1128 | 0.03% | 0.005% |
| 61 | 10.102 | 2713 | 2725 | 2750 | rVV | 432900 | 686214 | 20.31% | 3.177% |
| 62 | 10.488 | 2836 | 2845 | 2857 | rBV | 16408 | 24561 | 0.73% | 0.114% |
| 63 | 10.674 | 2892 | 2903 | 2912 | rBV3 | 4422 | 6815 | 0.20% | 0.032% |
| 64 | 10.761 | 2917 | 2930 | 2951 | rVV | 442547 | 710859 | 21.04% | 3.291% |
| 65 | 10.864 | 2955 | 2962 | 2965 | rBV3 | 831 | 1069 | 0.03% | 0.005% |
| 66 | 10.909 | 2965 | 2976 | 2987 | rVB | 49548 | 75474 | 2.23% | 0.349% |
| 67 | 11.002 | 2993 | 3005 | 3009 | rBV | 76745 | 122006 | 3.61% | 0.565% |
| 68 | 11.089 | 3023 | 3032 | 3048 | rVB2 | 49549 | 76099 | 2.25% | 0.352% |
| 69 | 11.295 | 3083 | 3096 | 3108 | rVV | 59273 | 91290 | 2.70% | 0.423% |
| 70 | 11.471 | 3138 | 3151 | 3165 | rVV | 241525 | 370836 | 10.98% | 1.717% |
| 71 | 11.610 | 3191 | 3194 | 3200 | rVV2 | 1245 | 1552 | 0.05% | 0.007% |
| 72 | 11.645 | 3201 | 3205 | 3213 | rVB4 | 1865 | 2066 | 0.06% | 0.010% |
| 73 | 11.700 | 3213 | 3222 | 3229 | rVB2 | 1866 | 2485 | 0.07% | 0.012% |
| 74 | 11.748 | 3231 | 3237 | 3243 | rVB5 | 1840 | 2407 | 0.07% | 0.011% |
| 75 | 11.815 | 3243 | 3258 | 3272 | rBV | 562619 | 887960 | 26.29% | 4.111% |
| 76 | 11.896 | 3273 | 3283 | 3294 | rVB | 50479 | 76914 | 2.28% | 0.356% |

LSC Area Percent Report

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

Integration Parameters: LSCINT.P
Integrator: RTE
Smoothing : OFF Filtering: 5
Sampling : 1 Min Area: 0 % of largest Peak
Start Thrs: 0.2 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 5

Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Title : VOC Analysis

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 77 | 11.976 | 3303 | 3308 | 3317 | rVB4 | 2786 | 3607 | 0.11% | 0.017% |
| 78 | 12.098 | 3334 | 3346 | 3363 | rBV2 | 90172 | 154541 | 4.57% | 0.716% |
| 79 | 12.195 | 3363 | 3376 | 3395 | rVB | 617498 | 992027 | 29.37% | 4.593% |
| 80 | 12.311 | 3405 | 3412 | 3425 | rVB7 | 4594 | 8299 | 0.25% | 0.038% |
| 81 | 12.381 | 3425 | 3434 | 3443 | rBV | 3376 | 4835 | 0.14% | 0.022% |
| 82 | 12.468 | 3451 | 3461 | 3466 | rBV | 10158 | 14749 | 0.44% | 0.068% |
| 83 | 12.574 | 3484 | 3494 | 3502 | rBV | 18891 | 27929 | 0.83% | 0.129% |
| 84 | 12.613 | 3502 | 3506 | 3513 | rVB3 | 3519 | 4226 | 0.13% | 0.020% |
| 85 | 12.684 | 3519 | 3528 | 3544 | rVV | 14728 | 22204 | 0.66% | 0.103% |
| 86 | 12.877 | 3582 | 3588 | 3597 | rVV4 | 2338 | 2952 | 0.09% | 0.014% |
| 87 | 12.976 | 3609 | 3619 | 3627 | rVV | 10390 | 14968 | 0.44% | 0.069% |
| 88 | 13.028 | 3627 | 3635 | 3646 | rVB | 11020 | 16155 | 0.48% | 0.075% |
| 89 | 13.298 | 3708 | 3719 | 3729 | rBV2 | 10903 | 15845 | 0.47% | 0.073% |
| 90 | 13.458 | 3758 | 3769 | 3783 | rVV2 | 26787 | 43410 | 1.29% | 0.201% |
| 91 | 13.526 | 3783 | 3790 | 3795 | rVV5 | 1316 | 1907 | 0.06% | 0.009% |
| 92 | 13.632 | 3815 | 3823 | 3835 | rVB3 | 3850 | 5365 | 0.16% | 0.025% |
| 93 | 13.786 | 3863 | 3871 | 3879 | rVB4 | 950 | 1350 | 0.04% | 0.006% |
| 94 | 13.835 | 3879 | 3886 | 3895 | rBV6 | 1371 | 2190 | 0.06% | 0.010% |
| 95 | 14.089 | 3953 | 3965 | 3984 | rBV | 60224 | 96934 | 2.87% | 0.449% |
| 96 | 14.211 | 3994 | 4003 | 4014 | rVB | 6065 | 8815 | 0.26% | 0.041% |
| 97 | 14.671 | 4135 | 4146 | 4151 | rVV3 | 969 | 1362 | 0.04% | 0.006% |
| 98 | 15.175 | 4296 | 4303 | 4311 | rBV3 | 750 | 1244 | 0.04% | 0.006% |
| 99 | 15.227 | 4311 | 4319 | 4329 | rBV3 | 3820 | 6156 | 0.18% | 0.029% |
| 100 | 15.413 | 4369 | 4377 | 4388 | rVB5 | 4831 | 8412 | 0.25% | 0.039% |

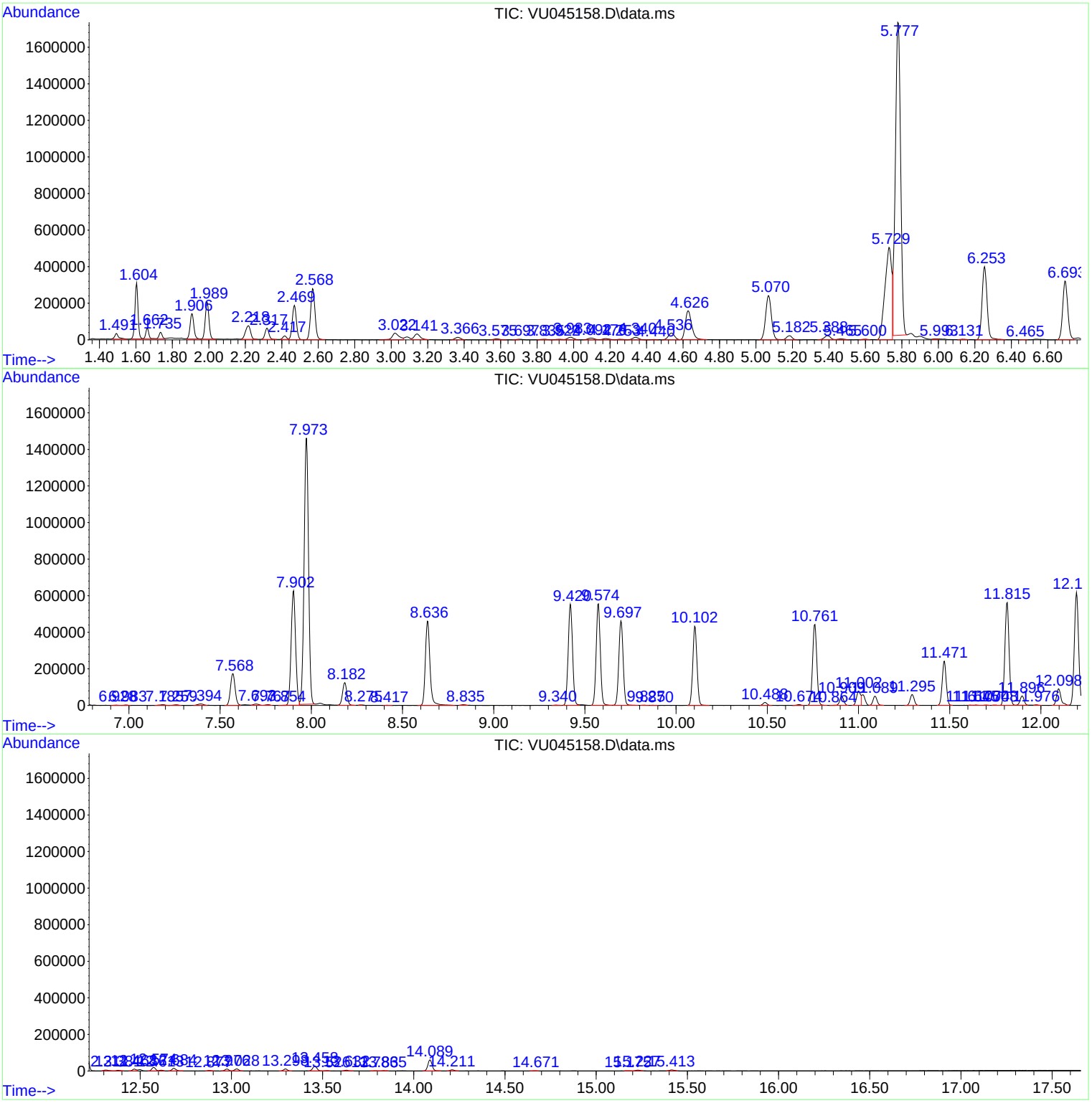
Sum of corrected areas: 21597804

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :**
MSVOA_U
**ClientSampleId :**
F4A14DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

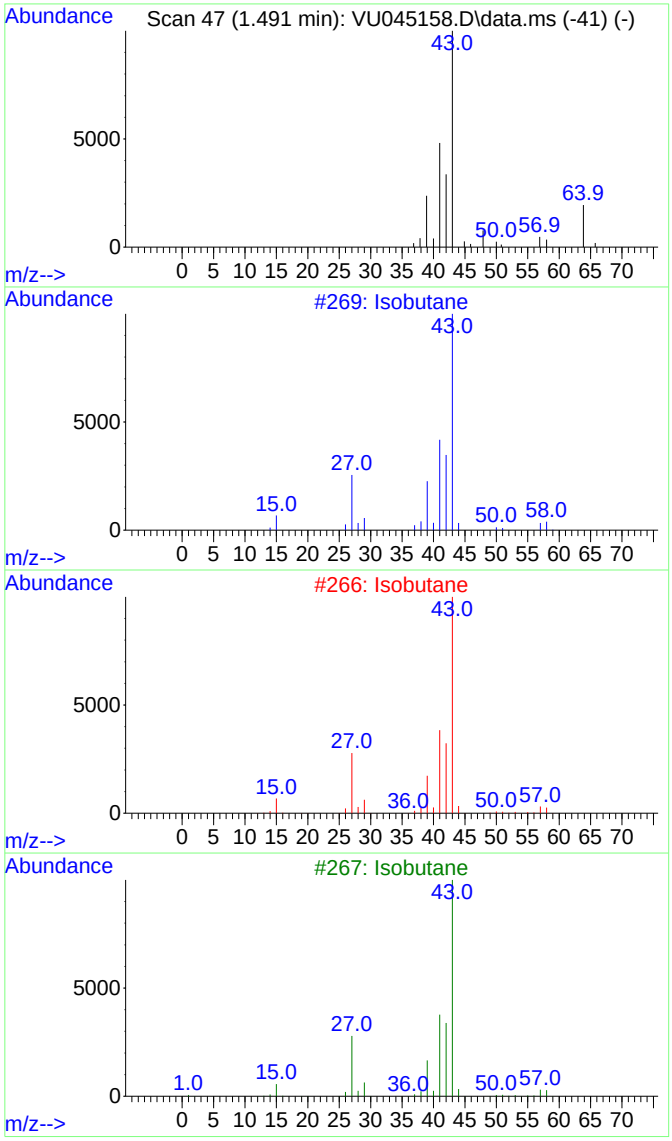
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

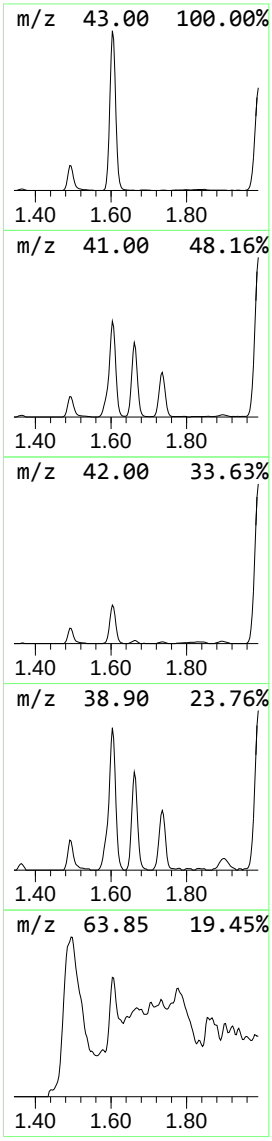
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 1 (DEL) Alkane: Straight-Chai... Concentration Rank 17

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.491 | 2.95 ug/L | 45417 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Isobutane | 58 | C4H10 | 000075-28-5 | 47 |
| 2 | Isobutane | 58 | C4H10 | 000075-28-5 | 47 |
| 3 | Isobutane | 58 | C4H10 | 000075-28-5 | 47 |
| 4 | Isobutane | 58 | C4H10 | 000075-28-5 | 38 |
| 5 | 1-Propanesulfonyl chloride | 142 | C3H7ClO2S | 010147-36-1 | 9 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

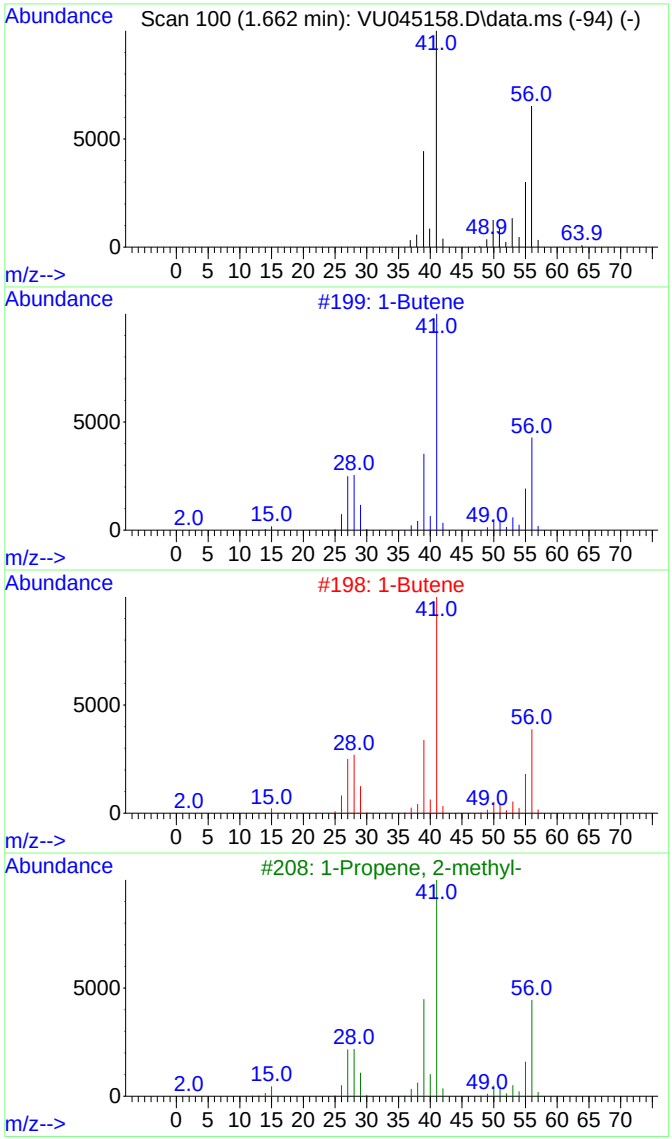
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

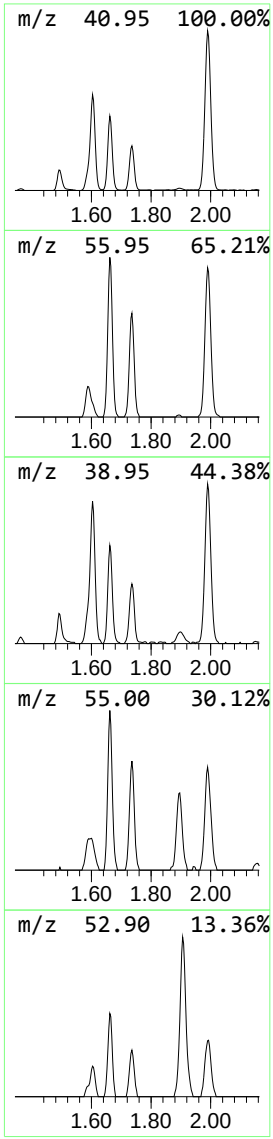
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 15

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.662 | 4.14 ug/L | 63705 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Butene | 56 | C4H8 | 000106-98-9 | 87 |
| 2 | 1-Butene | 56 | C4H8 | 000106-98-9 | 87 |
| 3 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 83 |
| 4 | 1-Butene | 56 | C4H8 | 000106-98-9 | 80 |
| 5 | 2-Butene, (Z)- | 56 | C4H8 | 000590-18-1 | 80 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

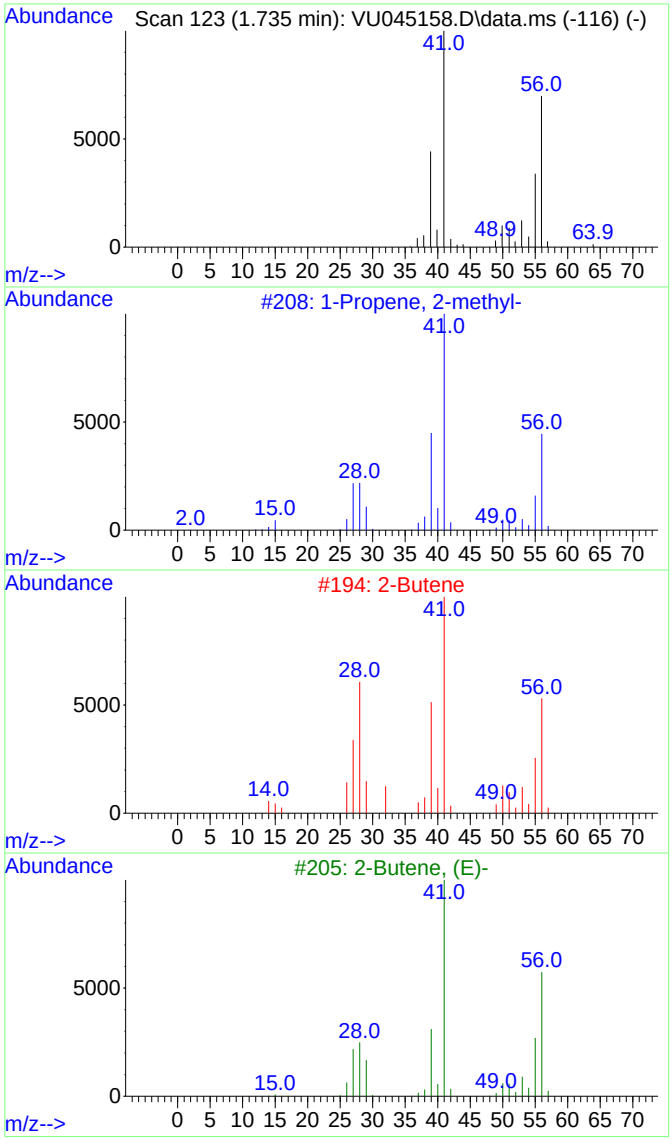
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

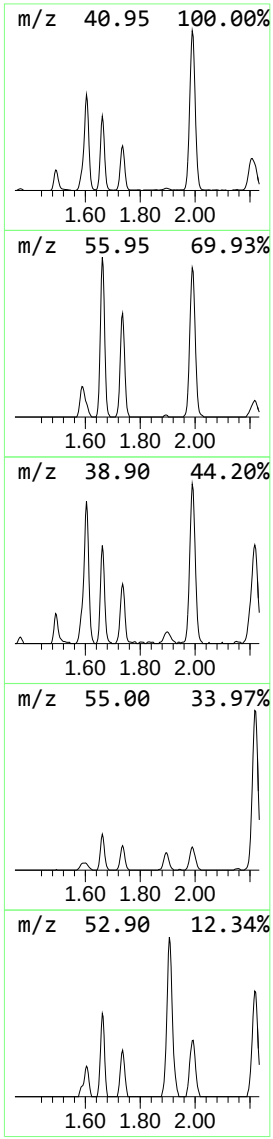
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 3 (DEL) Alkane: Straight-Chai... Concentration Rank 18

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.735 | 2.61 ug/L | 40112 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 1-Propene, 2-methyl- | 56 | C4H8 | 000115-11-7 | 87 |
| 2 | 2-Butene | 56 | C4H8 | 000107-01-7 | 74 |
| 3 | 2-Butene, (E)- | 56 | C4H8 | 000624-64-6 | 72 |
| 4 | 2-Butene, (Z)- | 56 | C4H8 | 000590-18-1 | 72 |
| 5 | 2-Butene | 56 | C4H8 | 000107-01-7 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

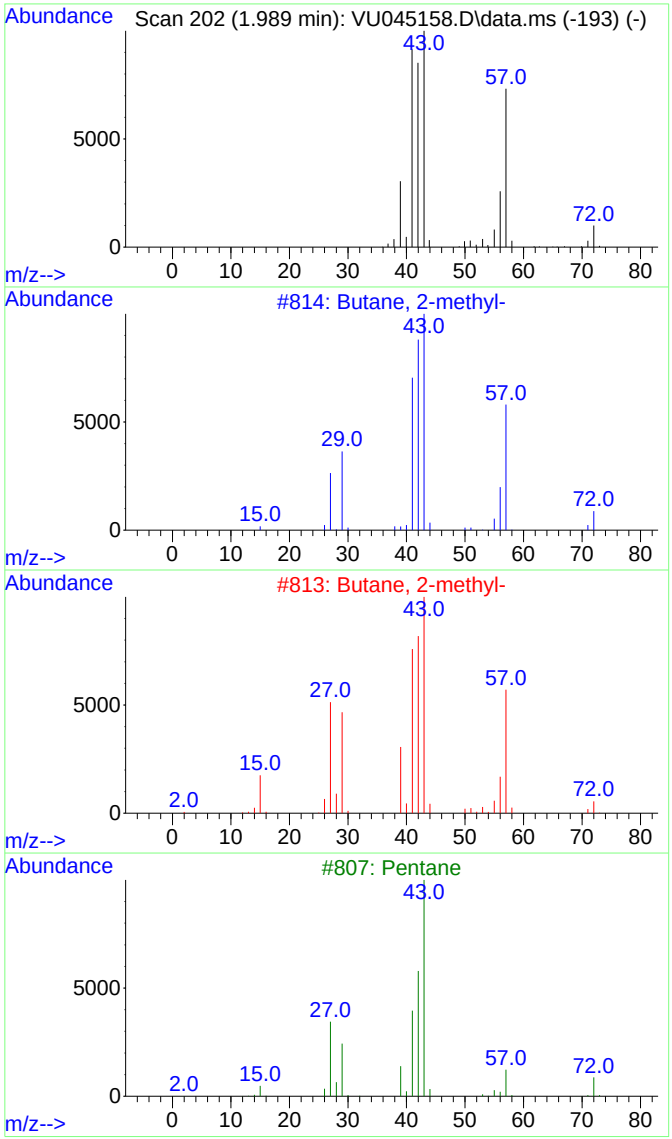
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

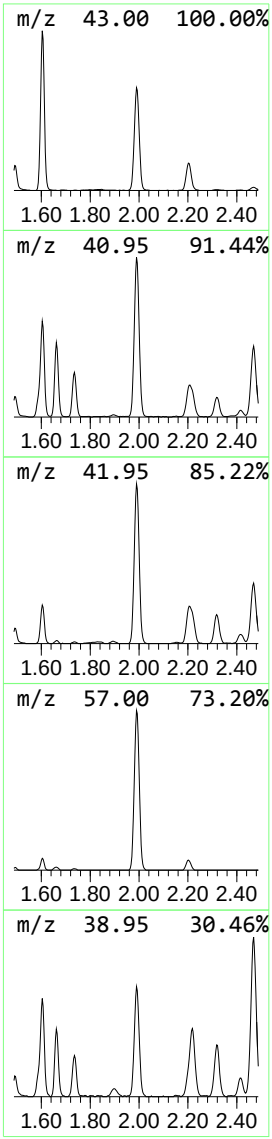
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 3

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 1.989 | 18.37 ug/L | 282441 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 90 |
| 2 | Butane, 2-methyl- | 72 | C5H12 | 000078-78-4 | 80 |
| 3 | Pentane | 72 | C5H12 | 000109-66-0 | 42 |
| 4 | Isobutylene epoxide | 72 | C4H8O | 000558-30-5 | 40 |
| 5 | 3-Buten-1-ol | 72 | C4H8O | 000627-27-0 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

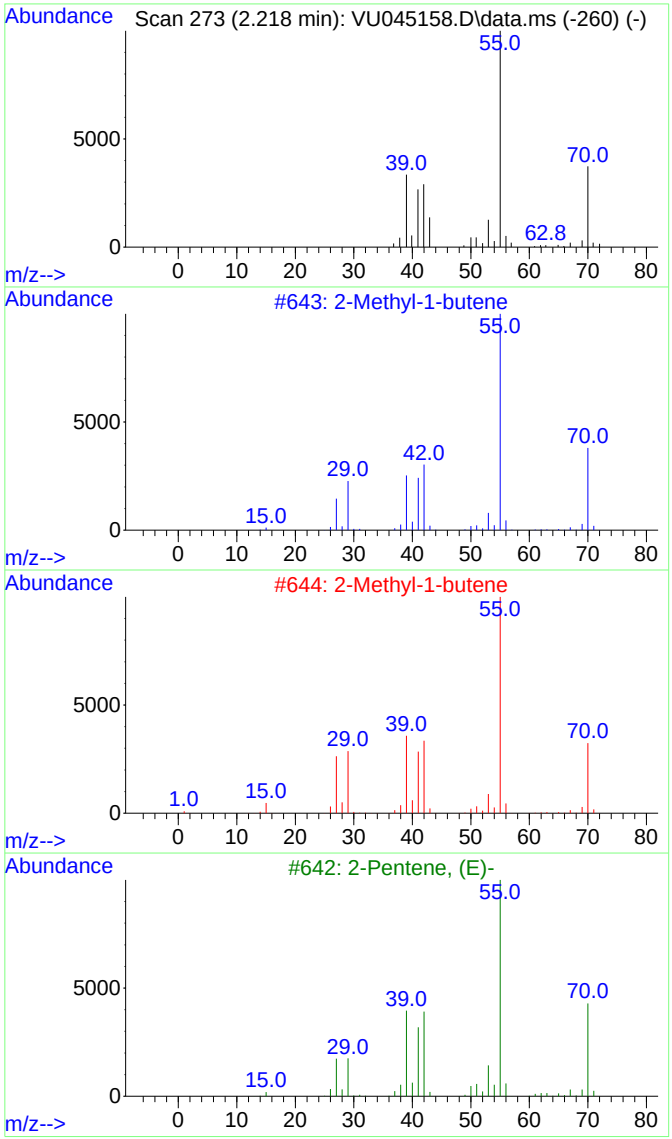
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

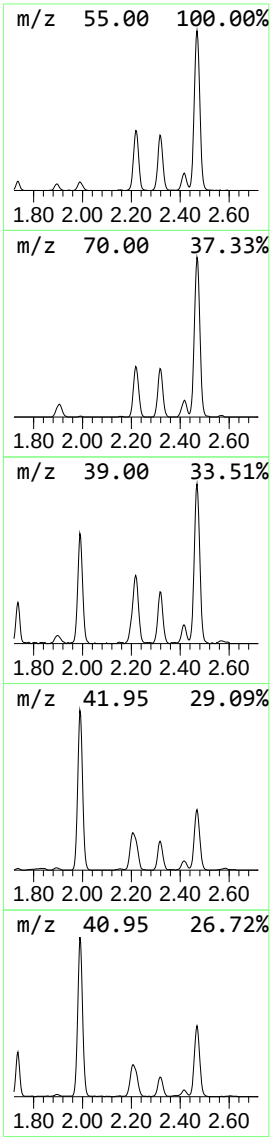
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 4

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.218 | 9.32 ug/L | 143321 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | 2-Methyl-1-butene | 70 | C5H10 | 000563-46-2 | 90 |
| 2 | 2-Methyl-1-butene | 70 | C5H10 | 000563-46-2 | 90 |
| 3 | 2-Pentene, (E)- | 70 | C5H10 | 000646-04-8 | 90 |
| 4 | 2-Butene, 2-methyl- | 70 | C5H10 | 000513-35-9 | 87 |
| 5 | 2-Pentene, (E)- | 70 | C5H10 | 000646-04-8 | 83 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

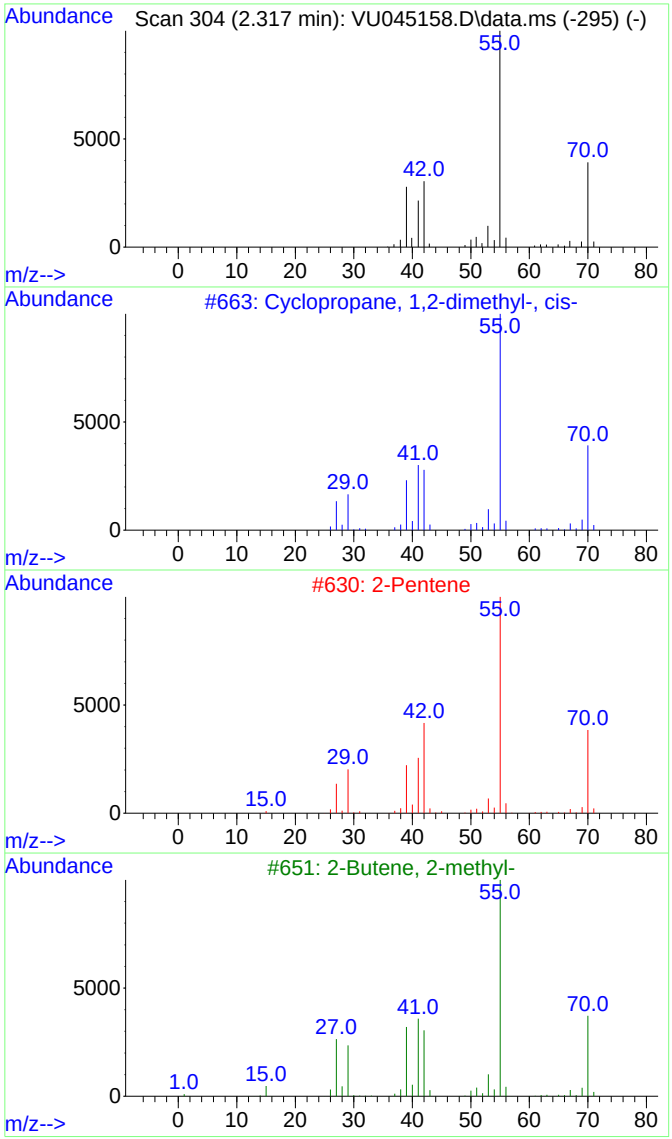
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

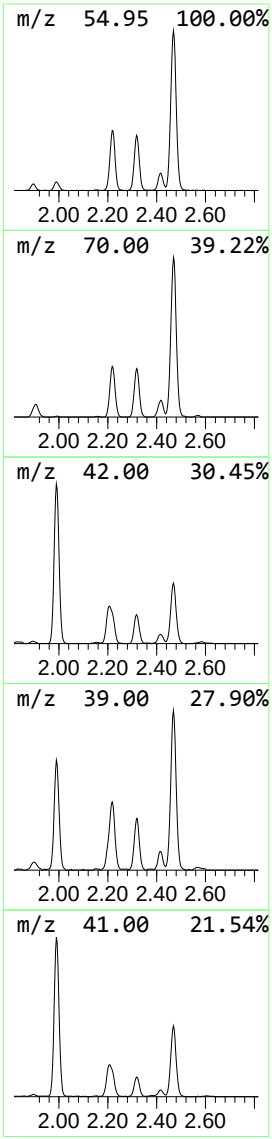
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 6 (DEL) Alkane: Cyclic2.317 Concentration Rank 8

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.317 | 5.98 ug/L | 92025 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopropane, 1,2-dimethyl-, cis- | 70 | C5H10 | 000930-18-7 | 90 |
| 2 | 2-Pentene | 70 | C5H10 | 000109-68-2 | 87 |
| 3 | 2-Butene, 2-methyl- | 70 | C5H10 | 000513-35-9 | 87 |
| 4 | 2-Methyl-1-butene | 70 | C5H10 | 000563-46-2 | 87 |
| 5 | Cyclopropane, 1,2-dimethyl-, trans- | 70 | C5H10 | 002402-06-4 | 87 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

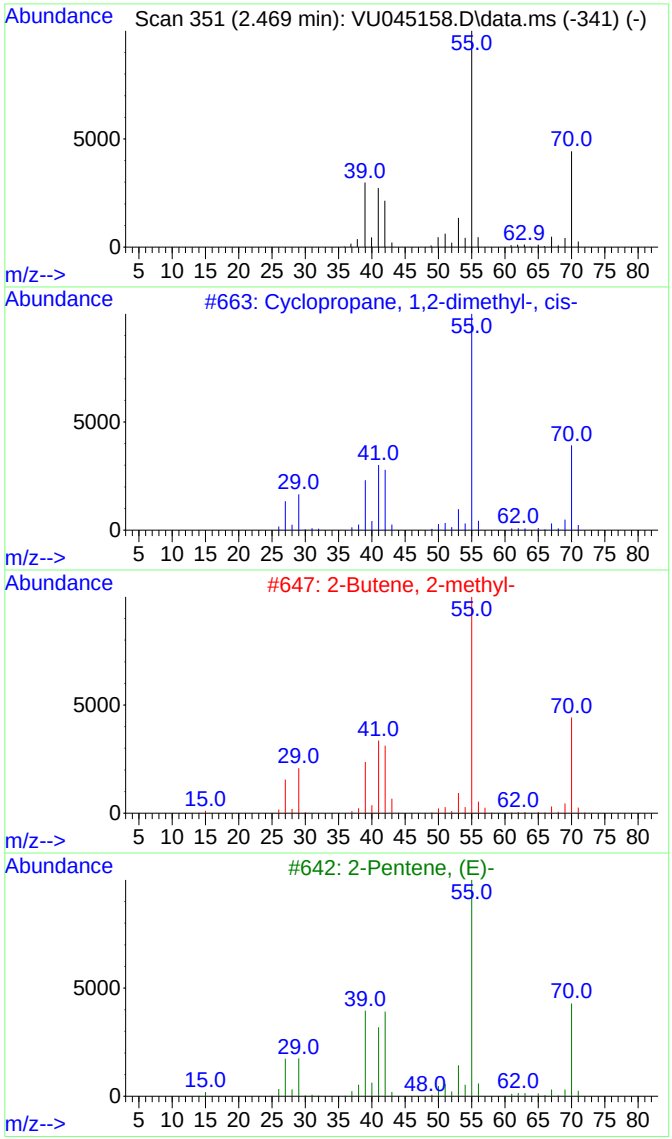
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

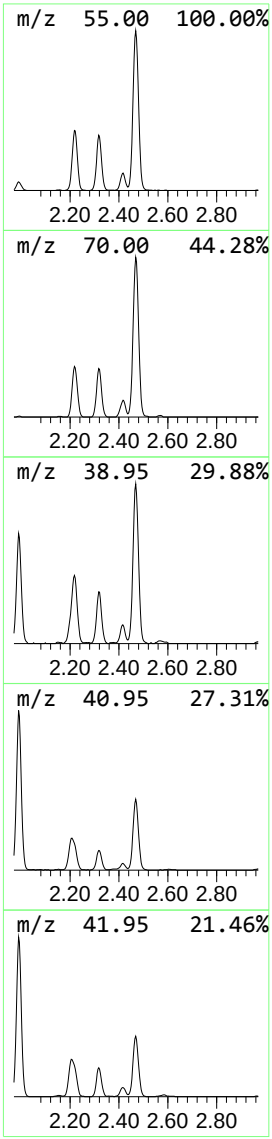
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 7 (DEL) Alkane: Cyclic2.469 Concentration Rank 2

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 2.469 | 19.30 ug/L | 296841 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopropane, 1,2-dimethyl-, cis- | 70 | C5H10 | 000930-18-7 | 91 |
| 2 | 2-Butene, 2-methyl- | 70 | C5H10 | 000513-35-9 | 90 |
| 3 | 2-Pentene, (E)- | 70 | C5H10 | 000646-04-8 | 87 |
| 4 | Cyclopropane, 1,2-dimethyl-, trans- | 70 | C5H10 | 002402-06-4 | 86 |
| 5 | Cyclopropane, 1,2-dimethyl-, trans- | 70 | C5H10 | 002402-06-4 | 83 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

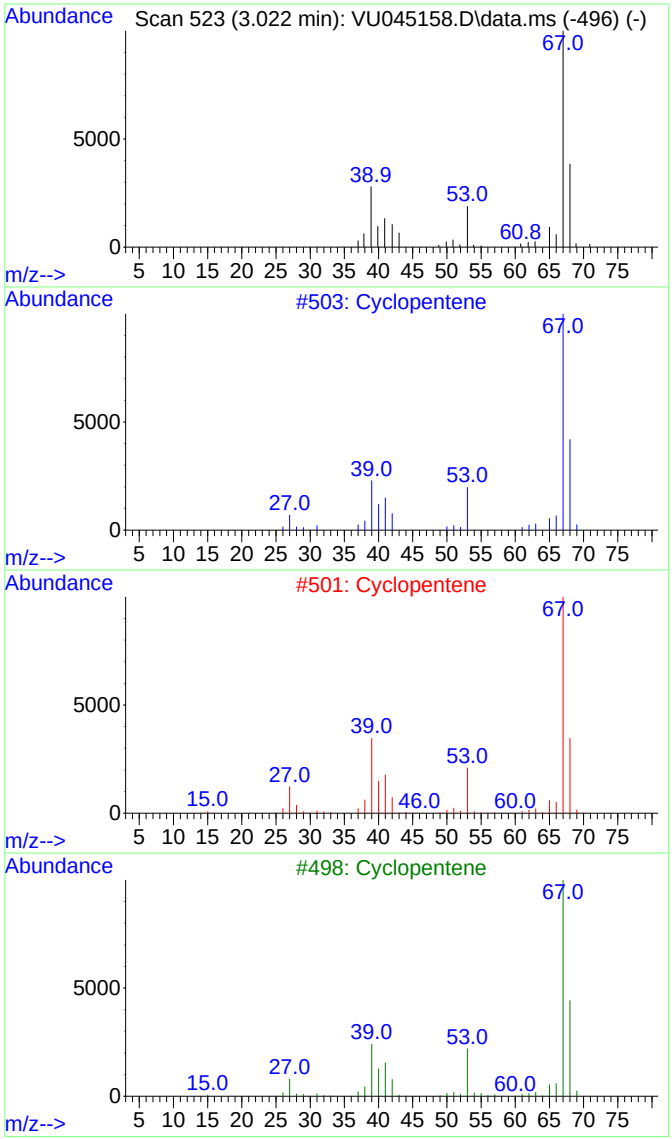
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

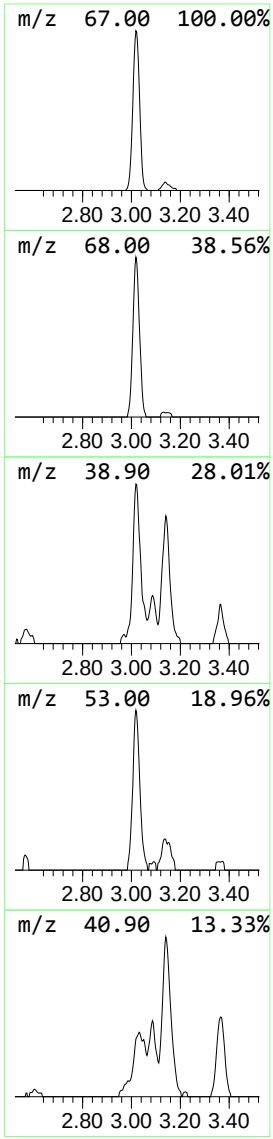
**********

Peak Number 8 Cyclopentene Concentration Rank 7

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.022 | 6.42 ug/L | 98688 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentene | 68 | C5H8 | 000142-29-0 | 91 |
| 2 | Cyclopentene | 68 | C5H8 | 000142-29-0 | 91 |
| 3 | Cyclopentene | 68 | C5H8 | 000142-29-0 | 91 |
| 4 | Cyclopentene | 68 | C5H8 | 000142-29-0 | 91 |
| 5 | Cyclopentene | 68 | C5H8 | 000142-29-0 | 58 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

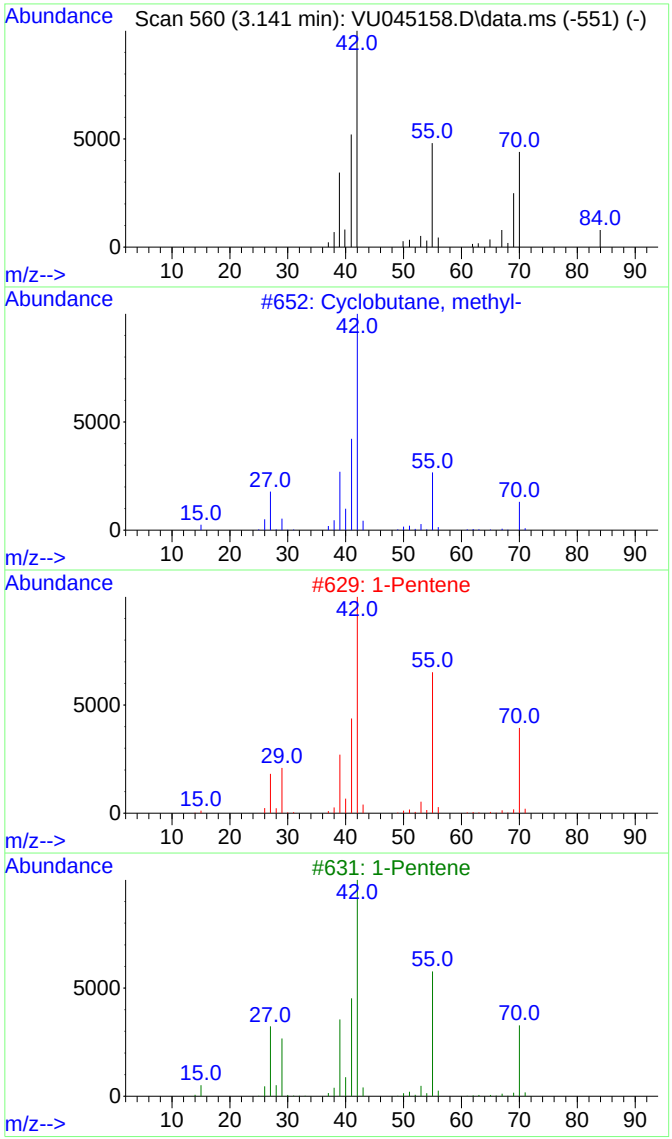
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

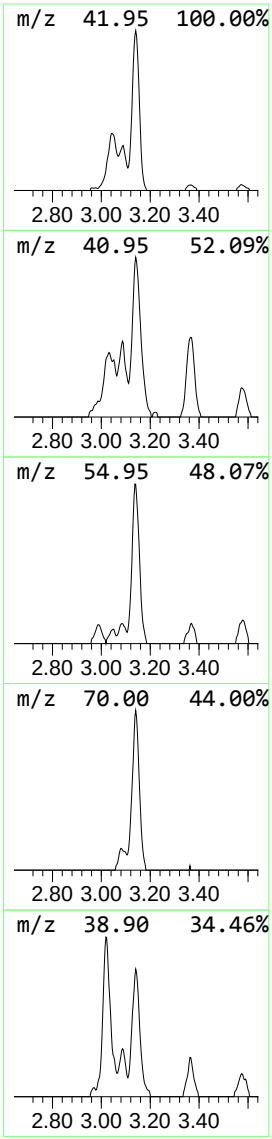
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 9 (DEL) Alkane: Cyclic3.141 Concentration Rank 12

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 3.141 | 4.56 ug/L | 70156 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclobutane, methyl- | 70 | C5H10 | 000598-61-8 | 80 |
| 2 | 1-Pentene | 70 | C5H10 | 000109-67-1 | 64 |
| 3 | 1-Pentene | 70 | C5H10 | 000109-67-1 | 64 |
| 4 | 1-Pentene | 70 | C5H10 | 000109-67-1 | 50 |
| 5 | Cyclopropane, ethyl- | 70 | C5H10 | 001191-96-4 | 38 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

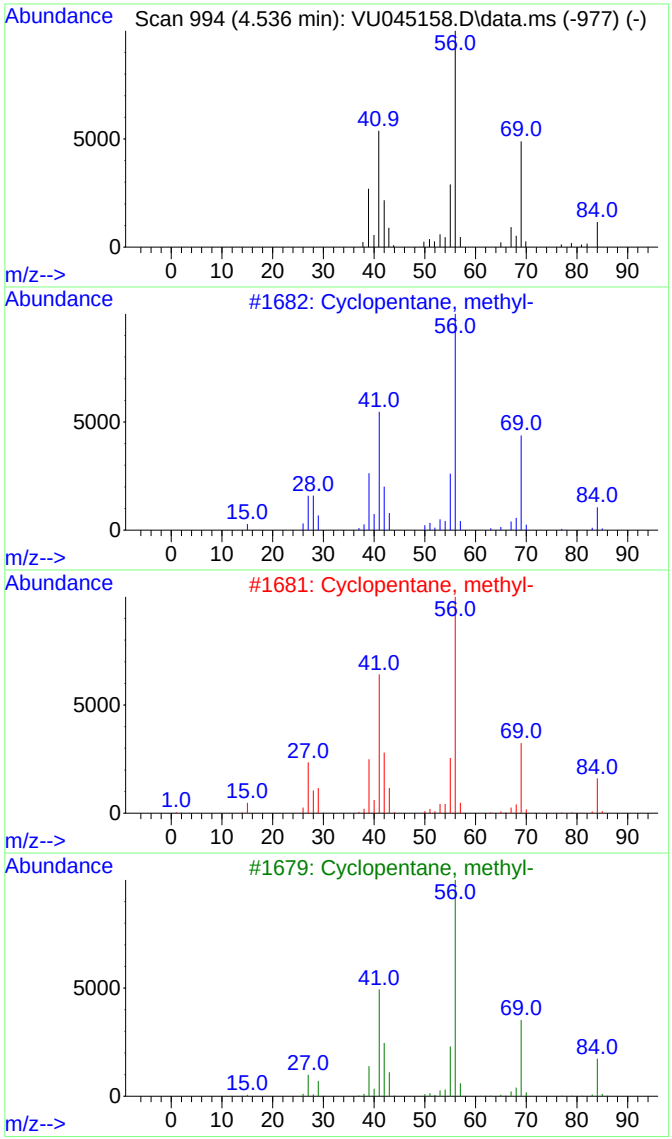
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

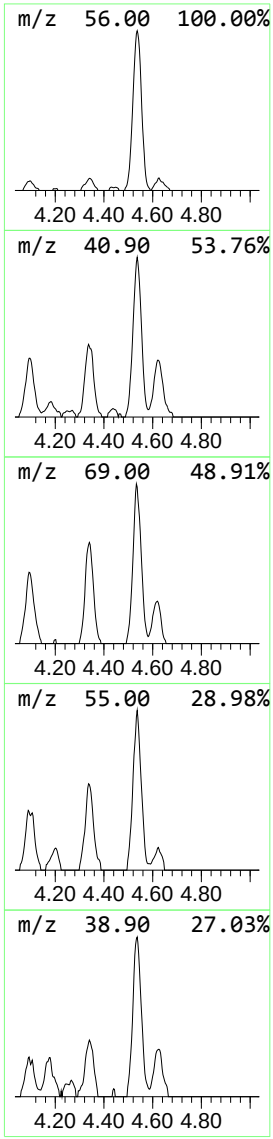
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 10 (DEL) Alkane: Cyclic4.536 Concentration Rank 9

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 4.536 | 5.73 ug/L | 88176 | 1,4-Difluorobenzene | 6.253 |

| 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 | 86 |
| 3 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 72 |
| 4 | 1H-Tetrazole, 5-methyl- | 84 | C2H4N4 | 004076-36-2 | 72 |
| 5 | Cyclopentane, methyl- | 84 | C6H12 | 000096-37-7 | 72 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

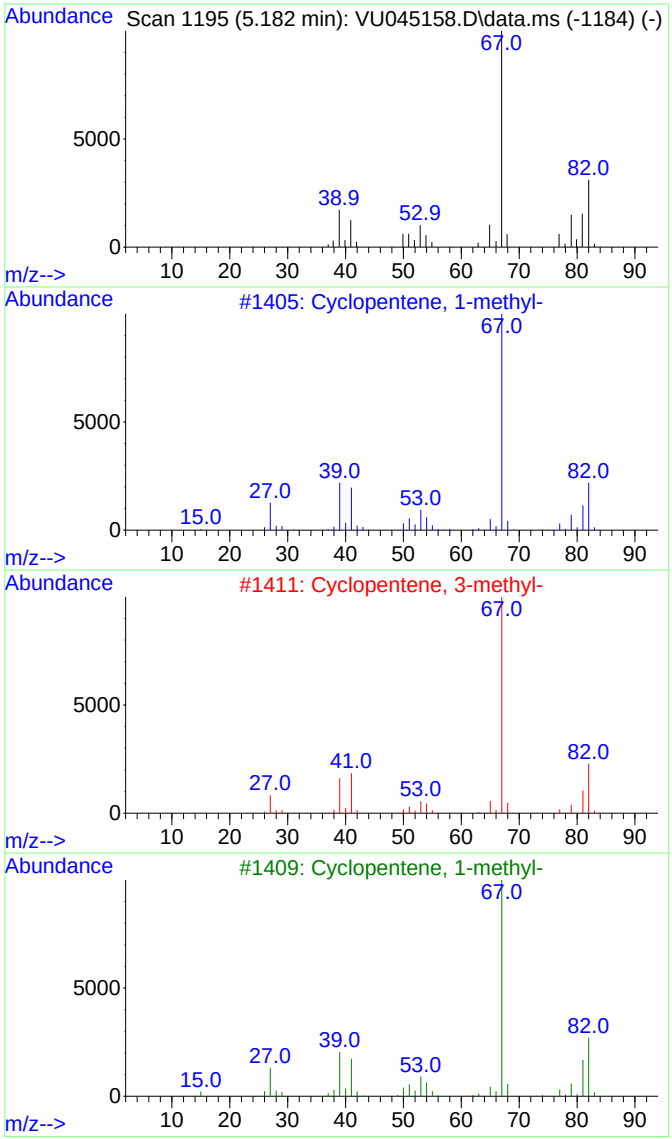
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

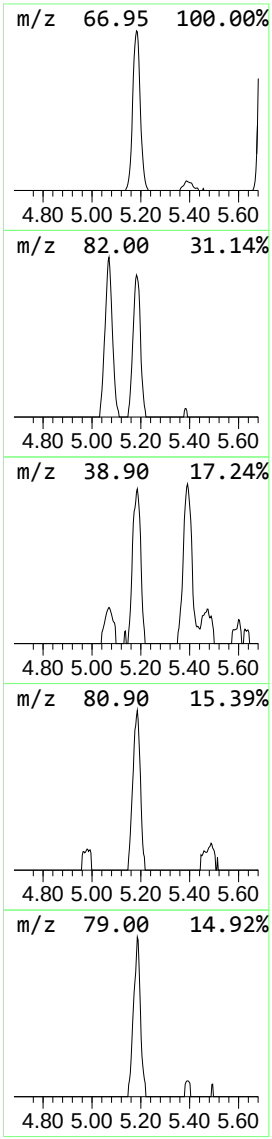
**********

Peak Number 11 Cyclopentene, 1-methyl- Concentration Rank 16

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 5.182 | 3.02 ug/L | 46512 | 1,4-Difluorobenzene | 6.253 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Cyclopentene, 1-methyl- | 82 | C6H10 | 000693-89-0 | 87 |
| 2 | Cyclopentene, 3-methyl- | 82 | C6H10 | 001120-62-3 | 87 |
| 3 | Cyclopentene, 1-methyl- | 82 | C6H10 | 000693-89-0 | 87 |
| 4 | Cyclopentene, 1-methyl- | 82 | C6H10 | 000693-89-0 | 87 |
| 5 | 1,4-Pentadiene, 2-methyl- | 82 | C6H10 | 000763-30-4 | 86 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

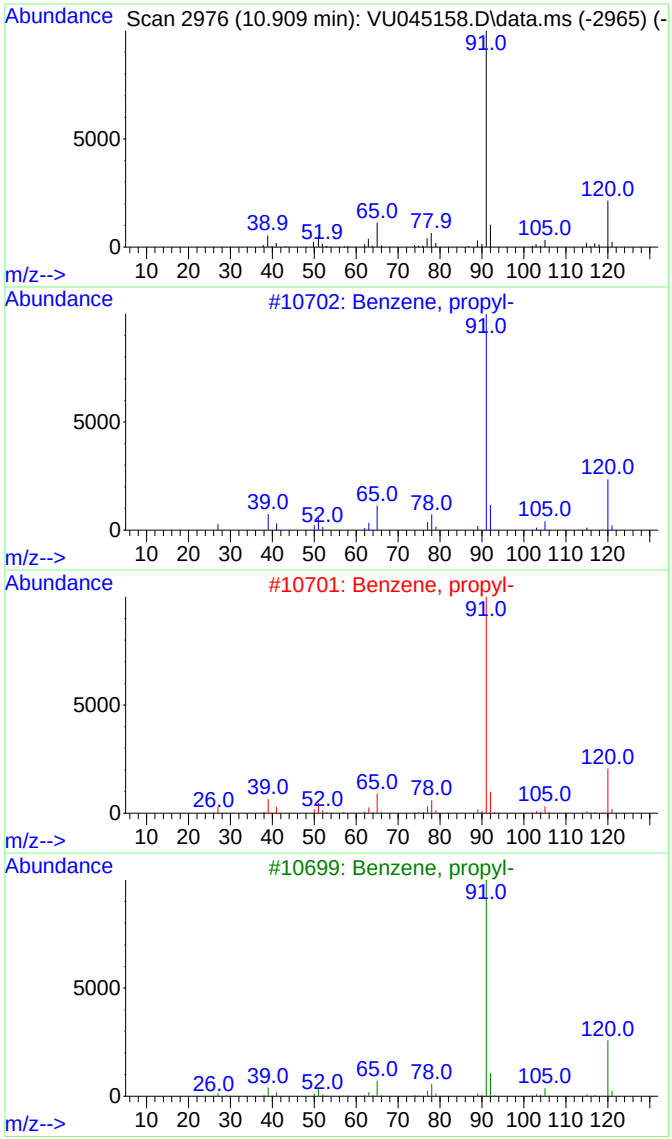
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

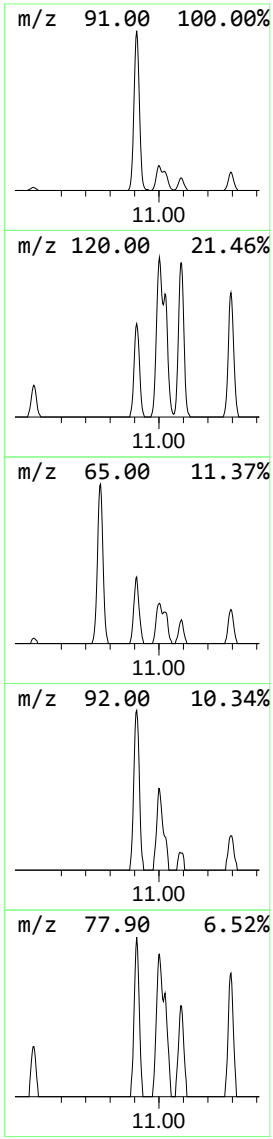
**********

Peak Number 13 Benzene, propyl- Concentration Rank 14

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 10.909 | 4.25 ug/L | 75474 | 1,4-Dichlorobenzene-d4 | 11.816 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 93 |
| 2 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 87 |
| 3 | Benzene, propyl- | 120 | C9H12 | 000103-65-1 | 80 |
| 4 | Benzyl(2-chloroethyl)amine | 169 | C9H12ClN | 042074-16-8 | 78 |
| 5 | N-(Cyclohexylmethyl)(phenyl)meth... | 203 | C14H21N | 004352-47-0 | 78 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

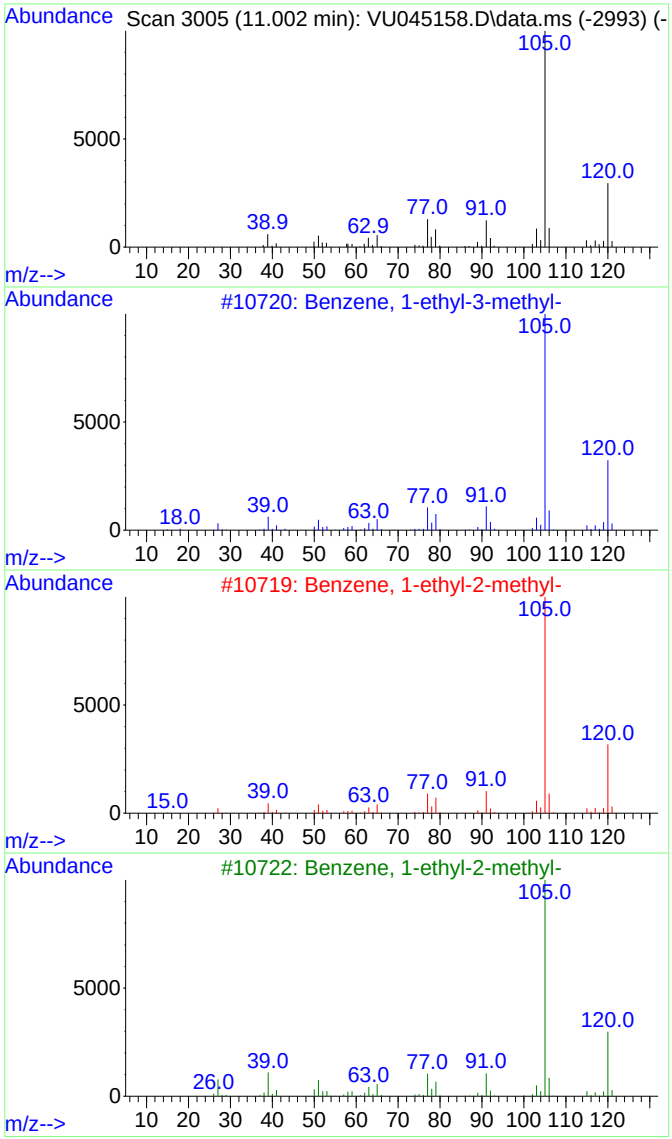
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

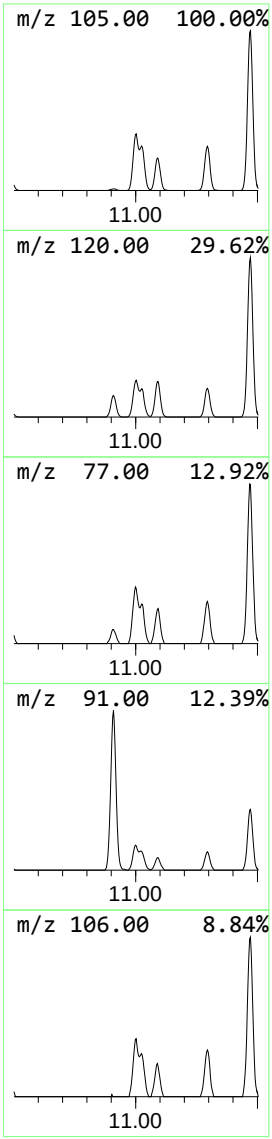
**********

Peak Number 14 Benzene, 1-ethyl-3-methyl- Concentration Rank 6

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.002 | 6.87 ug/L | 122006 | 1,4-Dichlorobenzene-d4 | 11.816 |

| 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, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

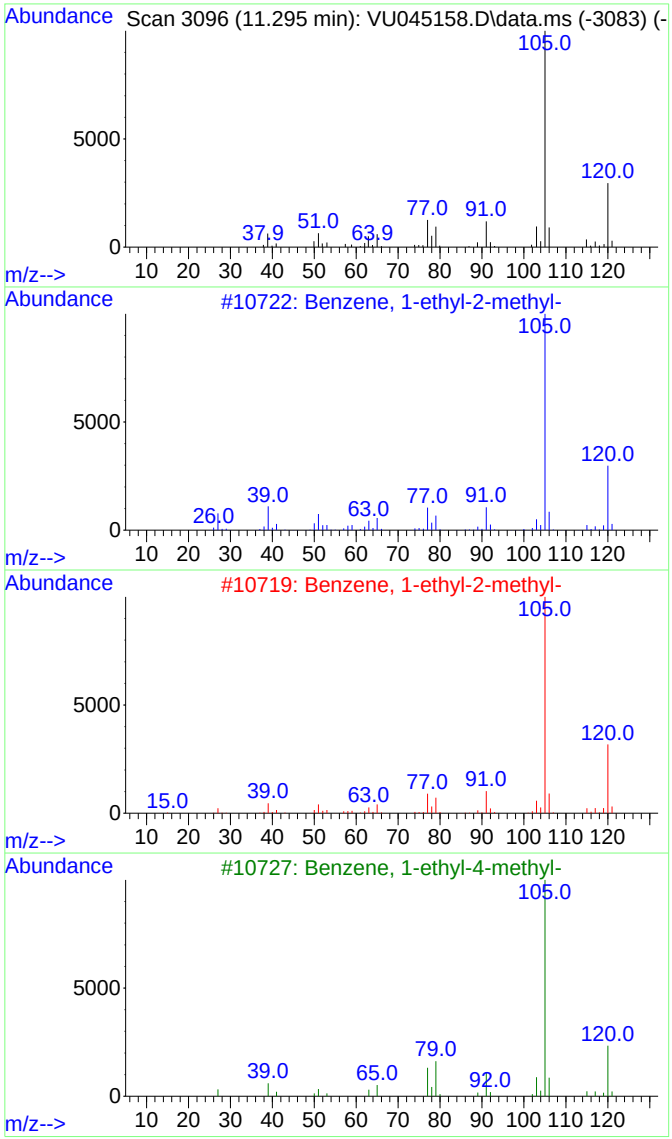
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

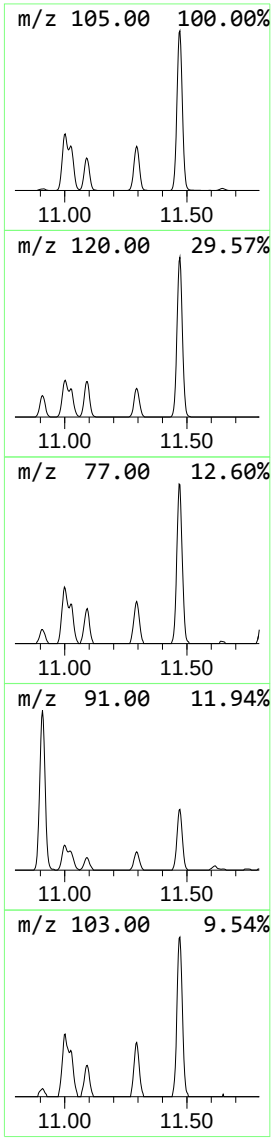
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 15 Benzene, 1-ethyl-2-methyl- Concentration Rank 11

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.295 | 5.14 ug/L | 91290 | 1,4-Dichlorobenzene-d4 | 11.816 |

| 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 | Mesitylene | 120 | C9H12 | 000108-67-8 | 91 |
| 5 | Benzene, 1-ethyl-3-methyl- | 120 | C9H12 | 000620-14-4 | 91 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

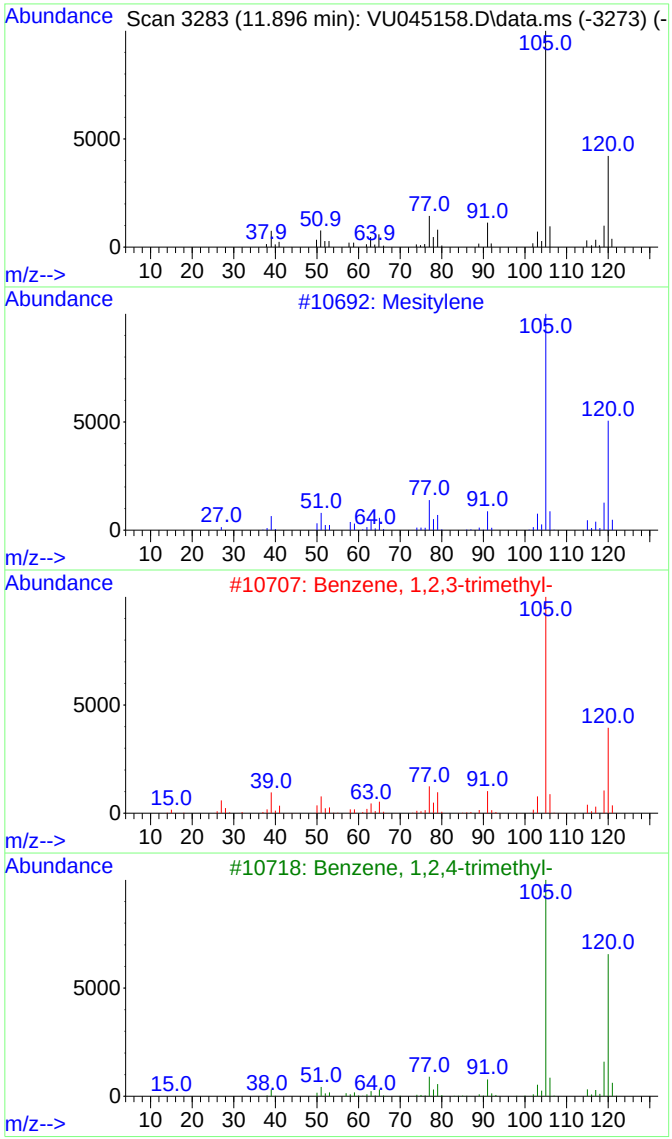
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

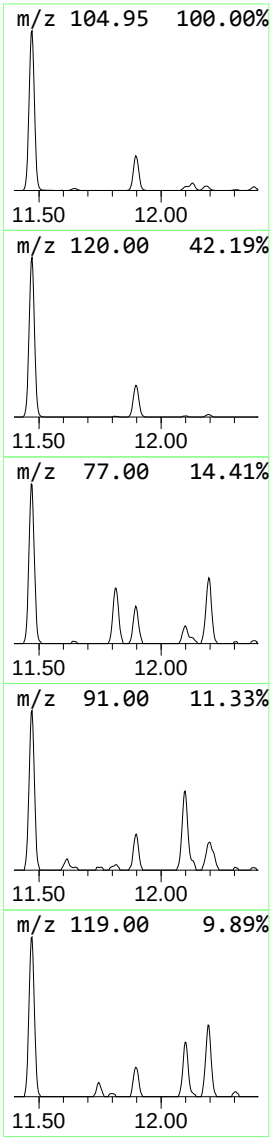
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

**********
Peak Number 16 Benzene, 1,2,3-trimethyl- Concentration Rank 13

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 11.896 | 4.33 ug/L | 76914 | 1,4-Dichlorobenzene-d4 | 11.816 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Mesitylene | 120 | C9H12 | 000108-67-8 | 97 |
| 2 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 97 |
| 3 | Benzene, 1,2,4-trimethyl- | 120 | C9H12 | 000095-63-6 | 94 |
| 4 | Mesitylene | 120 | C9H12 | 000108-67-8 | 94 |
| 5 | Benzene, 1,2,3-trimethyl- | 120 | C9H12 | 000526-73-8 | 94 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

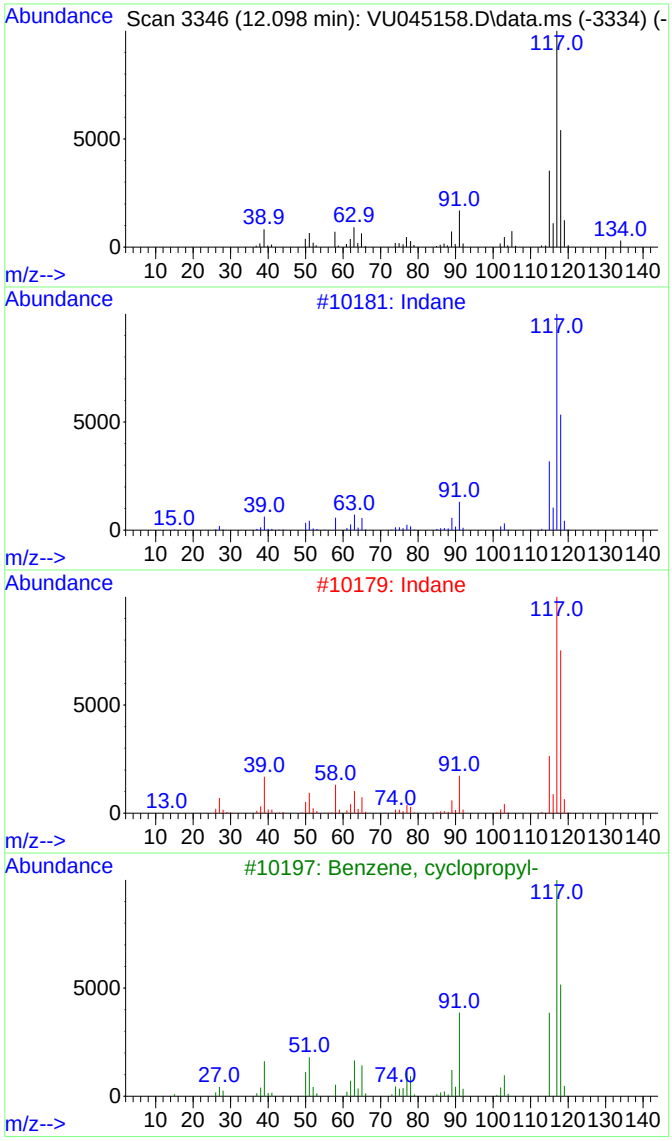
TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

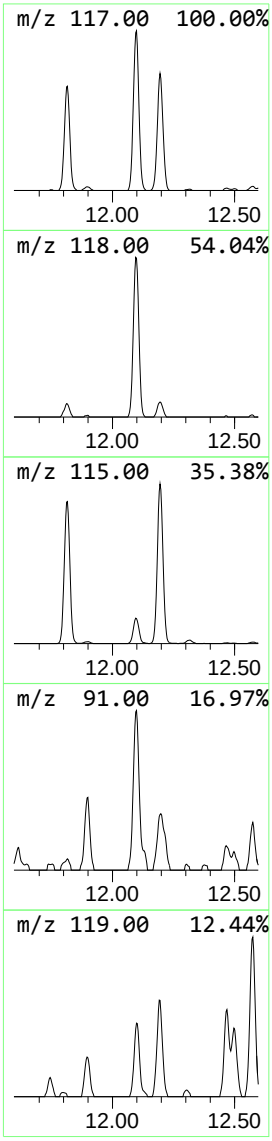
**********

Peak Number 17 Indane Concentration Rank 5

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 12.098 | 8.70 ug/L | 154541 | 1,4-Dichlorobenzene-d4 | 11.816 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Indane | 118 | C9H10 | 000496-11-7 | 94 |
| 2 | Indane | 118 | C9H10 | 000496-11-7 | 87 |
| 3 | Benzene, cyclopropyl- | 118 | C9H10 | 000873-49-4 | 81 |
| 4 | Indane | 118 | C9H10 | 000496-11-7 | 74 |
| 5 | Indane | 118 | C9H10 | 000496-11-7 | 74 |



Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

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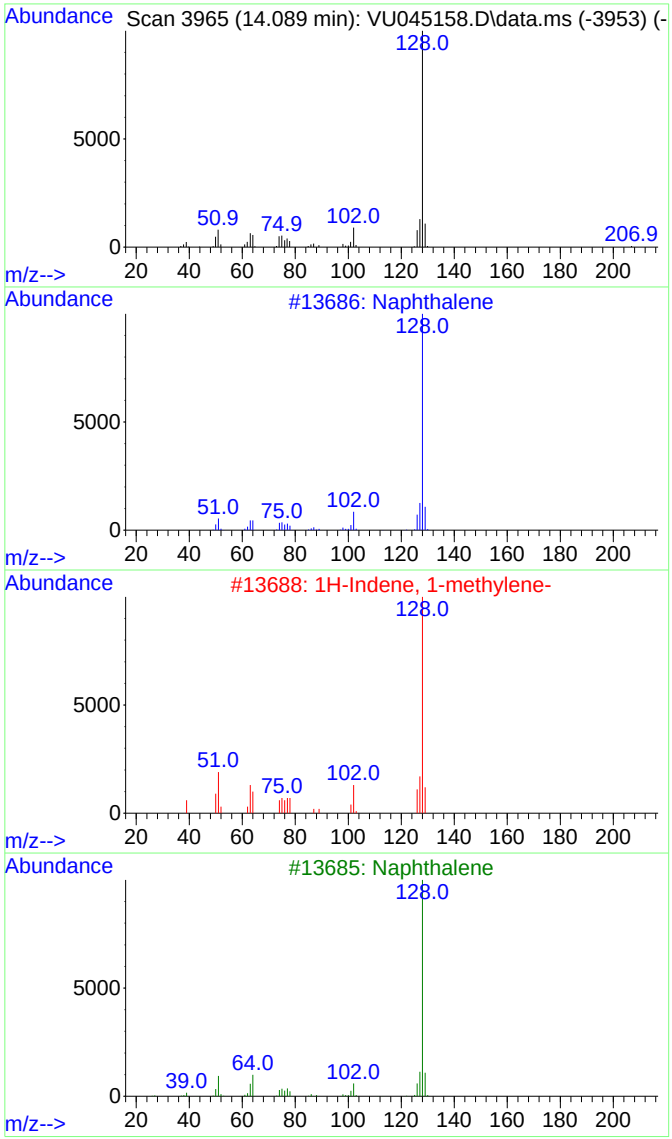
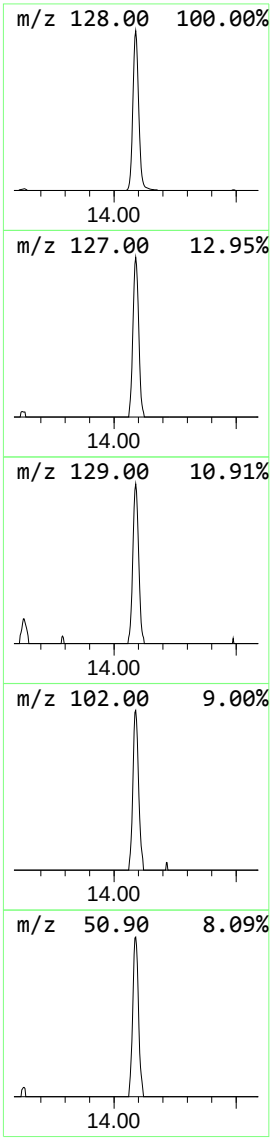
Peak Number 18 1H-Indene, 1-methylene- Concentration Rank 10

| R.T. | EstConc | Area | Relative to ISTD | R.T. |
|---|---|---|---|---|
| 14.089 | 5.46 ug/L | 96934 | 1,4-Dichlorobenzene-d4 | 11.816 |

| Hit# of 5 | Tentative ID | MW | MolForm | CAS# | Qual |
|---|---|---|---|---|---|
| 1 | Naphthalene | 128 | C10H8 | 000091-20-3 | 95 |
| 2 | 1H-Indene, 1-methylene- | 128 | C10H8 | 002471-84-3 | 95 |
| 3 | Naphthalene | 128 | C10H8 | 000091-20-3 | 93 |
| 4 | Azulene | 128 | C10H8 | 000275-51-4 | 91 |
| 5 | Azulene | 128 | C10H8 | 000275-51-4 | 91 |



Tentatively Identified Compound (LSC) summary

Data Path : Z:\voasrv\HPCHEM1\MSVOA_U\Data\VU100521\
Data File : VU045158.D
Acq On : 05 Oct 2021 20:27
Operator : SY/MD
Sample : M3996-03DL 100X
Misc : 5.0mL/MSVOA_U/WATER
ALS Vial : 26 Sample Multiplier: 1

**Instrument :** MSVOA_U
**ClientSampleId :** F4A14DL

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_U\Method\SFAMULM092321WMA.M
Quant Title : VOC Analysis

TIC Library : C:\Database\NIST20.L
TIC Integration Parameters: LSCINT.P

| | | | | | --Internal Standard--- | | | |
|---|---|---|---|---|---|---|---|---|
| TIC Top Hit name | RT | EstConc | Units | Response | # | RT | Resp | Conc |
| (DEL) Alkane: S... | 1.491 | 3.0 | ug/L | 45417 | 1 | 6.253 | 768912 | 50.0 |
| (DEL) Alkane: S... | 1.662 | 4.1 | ug/L | 63705 | 1 | 6.253 | 768912 | 50.0 |
| (DEL) Alkane: S... | 1.735 | 2.6 | ug/L | 40112 | 1 | 6.253 | 768912 | 50.0 |
| (DEL) Alkane: S... | 1.989 | 18.4 | ug/L | 282441 | 1 | 6.253 | 768912 | 50.0 |
| (DEL) Alkane: S... | 2.218 | 9.3 | ug/L | 143321 | 1 | 6.253 | 768912 | 50.0 |
| (DEL) Alkane: C... | 2.317 | 6.0 | ug/L | 92025 | 1 | 6.253 | 768912 | 50.0 |
| (DEL) Alkane: C... | 2.469 | 19.3 | ug/L | 296841 | 1 | 6.253 | 768912 | 50.0 |
| Cyclopentene | 3.022 | 6.4 | ug/L | 98688 | 1 | 6.253 | 768912 | 50.0 |
| (DEL) Alkane: C... | 3.141 | 4.6 | ug/L | 70156 | 1 | 6.253 | 768912 | 50.0 |
| (DEL) Alkane: C... | 4.536 | 5.7 | ug/L | 88176 | 1 | 6.253 | 768912 | 50.0 |
| Cyclopentene, 1... | 5.182 | 3.0 | ug/L | 46512 | 1 | 6.253 | 768912 | 50.0 |
| Benzene, propyl- | 10.909 | 4.3 | ug/L | 75474 | 3 | 11.816 | 887960 | 50.0 |
| Benzene, 1-ethy... | 11.002 | 6.9 | ug/L | 122006 | 3 | 11.816 | 887960 | 50.0 |
| Benzene, 1-ethy... | 11.295 | 5.1 | ug/L | 91290 | 3 | 11.816 | 887960 | 50.0 |
| Benzene, 1,2,3-... | 11.896 | 4.3 | ug/L | 76914 | 3 | 11.816 | 887960 | 50.0 |
| Indane | 12.098 | 8.7 | ug/L | 154541 | 3 | 11.816 | 887960 | 50.0 |
| 1H-Indene, 1-me... | 14.089 | 5.5 | ug/L | 96934 | 3 | 11.816 | 887960 | 50.0 |