

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
 Data File : VL042371.D  
 Acq On : 17 Apr 2025 22:52  
 Operator : SY/MD  
 Sample : Q1726-06  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B2-3-03312025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

Signal : TIC: VL042371.D\data.ms

| peak<br># | R.T.<br>min | first<br>scan | max<br>scan | last<br>scan | PK<br>TY | peak<br>height | corr.<br>area | corr.<br>% max. | % of<br>total |
|-----------|-------------|---------------|-------------|--------------|----------|----------------|---------------|-----------------|---------------|
| 1         | 1.431       | 410           | 415         | 421          | rBV      | 4134196        | 4610486       | 66.29%          | 11.124%       |
| 2         | 1.466       | 423           | 426         | 429          | rBV      | 274948         | 129904        | 1.87%           | 0.313%        |
| 3         | 1.489       | 429           | 433         | 435          | rBV      | 355726         | 147060        | 2.11%           | 0.355%        |
| 4         | 1.528       | 441           | 445         | 451          | rBV      | 674218         | 364646        | 5.24%           | 0.880%        |
| 5         | 1.560       | 451           | 455         | 459          | rBV      | 1047250        | 532995        | 7.66%           | 1.286%        |
| 6         | 1.622       | 470           | 474         | 478          | rVB      | 767173         | 390922        | 5.62%           | 0.943%        |
| 7         | 1.722       | 500           | 505         | 511          | rVB      | 1252293        | 741224        | 10.66%          | 1.788%        |
| 8         | 1.835       | 535           | 540         | 550          | rBV      | 7915808        | 6955429       | 100.00%         | 16.781%       |
| 9         | 1.887       | 550           | 556         | 561          | rBV      | 870553         | 566212        | 8.14%           | 1.366%        |
| 10        | 2.062       | 600           | 610         | 614          | rBV3     | 181276         | 177074        | 2.55%           | 0.427%        |
| 11        | 2.276       | 670           | 676         | 686          | rVB      | 275266         | 243781        | 3.50%           | 0.588%        |
| 12        | 2.473       | 733           | 737         | 744          | rVB2     | 162448         | 165794        | 2.38%           | 0.400%        |
| 13        | 2.560       | 759           | 764         | 773          | rVB      | 87512          | 85343         | 1.23%           | 0.206%        |
| 14        | 2.625       | 775           | 784         | 793          | rVB      | 121844         | 125733        | 1.81%           | 0.303%        |
| 15        | 2.790       | 827           | 835         | 841          | rBV      | 415801         | 434667        | 6.25%           | 1.049%        |
| 16        | 2.826       | 841           | 846         | 859          | rVB2     | 263442         | 328484        | 4.72%           | 0.793%        |
| 17        | 3.230       | 960           | 971         | 980          | rVB2     | 130286         | 187052        | 2.69%           | 0.451%        |
| 18        | 3.285       | 980           | 988         | 1000         | rVB3     | 78984          | 118337        | 1.70%           | 0.286%        |
| 19        | 3.661       | 1087          | 1104        | 1108         | rBV4     | 64509          | 143641        | 2.07%           | 0.347%        |
| 20        | 3.690       | 1108          | 1113        | 1127         | rVB      | 106251         | 159278        | 2.29%           | 0.384%        |
| 21        | 3.855       | 1154          | 1164        | 1177         | rBV4     | 61079          | 110321        | 1.59%           | 0.266%        |
| 22        | 3.959       | 1185          | 1196        | 1208         | rBV      | 540912         | 871230        | 12.53%          | 2.102%        |
| 23        | 4.052       | 1210          | 1225        | 1233         | rVV2     | 202421         | 385722        | 5.55%           | 0.931%        |
| 24        | 4.098       | 1233          | 1239        | 1251         | rVB3     | 97998          | 166572        | 2.39%           | 0.402%        |
| 25        | 4.273       | 1280          | 1293        | 1306         | rVB4     | 218048         | 431196        | 6.20%           | 1.040%        |
| 26        | 4.444       | 1334          | 1346        | 1356         | rBV4     | 47588          | 91431         | 1.31%           | 0.221%        |
| 27        | 4.642       | 1385          | 1407        | 1426         | rVB2     | 606265         | 1411579       | 20.29%          | 3.406%        |
| 28        | 4.981       | 1500          | 1512        | 1526         | rVB3     | 178573         | 342672        | 4.93%           | 0.827%        |
| 29        | 5.308       | 1597          | 1613        | 1631         | rBV3     | 35342          | 103444        | 1.49%           | 0.250%        |
| 30        | 5.668       | 1703          | 1724        | 1744         | rVB6     | 123206         | 362805        | 5.22%           | 0.875%        |
| 31        | 6.208       | 1877          | 1891        | 1901         | rBV6     | 75037          | 199008        | 2.86%           | 0.480%        |
| 32        | 6.279       | 1912          | 1913        | 1930         | rVB      | 88163          | 90902         | 1.31%           | 0.219%        |
| 33        | 6.830       | 2065          | 2083        | 2099         | rVB3     | 275051         | 681902        | 9.80%           | 1.645%        |
| 34        | 6.936       | 2099          | 2116        | 2136         | rVV2     | 1294318        | 2973049       | 42.74%          | 7.173%        |
| 35        | 7.189       | 2177          | 2194        | 2206         | rBV2     | 98521          | 212387        | 3.05%           | 0.512%        |
| 36        | 7.377       | 2235          | 2252        | 2261         | rBV5     | 135680         | 278892        | 4.01%           | 0.673%        |

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 Sample : Q1726-06  
 Misc : 400mL/MSVOA\_L  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_L  
 ClientSampleId :  
 IA-B2-3-03312025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

|    |        |      |      |      |      |         |         |        |        |
|----|--------|------|------|------|------|---------|---------|--------|--------|
| 37 | 7.597  | 2310 | 2320 | 2338 | rBV8 | 139506  | 421885  | 6.07%  | 1.018% |
| 38 | 7.687  | 2338 | 2348 | 2364 | rVB5 | 94112   | 196046  | 2.82%  | 0.473% |
| 39 | 7.894  | 2400 | 2412 | 2432 | rBV3 | 140056  | 328771  | 4.73%  | 0.793% |
| 40 | 8.137  | 2476 | 2487 | 2499 | rBV8 | 54415   | 108820  | 1.56%  | 0.263% |
| 41 | 8.305  | 2523 | 2539 | 2556 | rVB6 | 231569  | 517768  | 7.44%  | 1.249% |
| 42 | 8.882  | 2703 | 2717 | 2728 | rBV  | 716468  | 1097655 | 15.78% | 2.648% |
| 43 | 8.940  | 2728 | 2735 | 2741 | rVV2 | 77015   | 125155  | 1.80%  | 0.302% |
| 44 | 8.985  | 2741 | 2749 | 2764 | rVB8 | 86665   | 200207  | 2.88%  | 0.483% |
| 45 | 9.147  | 2791 | 2799 | 2813 | rBV2 | 64480   | 106616  | 1.53%  | 0.257% |
| 46 | 9.357  | 2853 | 2864 | 2877 | rBV  | 411535  | 626638  | 9.01%  | 1.512% |
| 47 | 9.532  | 2908 | 2918 | 2937 | rVB  | 1073215 | 1994276 | 28.67% | 4.812% |
| 48 | 9.733  | 2966 | 2980 | 2992 | rVB7 | 118512  | 263965  | 3.80%  | 0.637% |
| 49 | 9.859  | 3007 | 3019 | 3027 | rBV4 | 123443  | 200257  | 2.88%  | 0.483% |
| 50 | 9.966  | 3037 | 3052 | 3062 | rBV  | 586615  | 821124  | 11.81% | 1.981% |
| 51 | 10.377 | 3161 | 3179 | 3189 | rBV2 | 903472  | 1364287 | 19.61% | 3.292% |
| 52 | 10.539 | 3221 | 3229 | 3236 | rBV  | 60340   | 81053   | 1.17%  | 0.196% |
| 53 | 10.804 | 3306 | 3311 | 3320 | rBV5 | 68906   | 87517   | 1.26%  | 0.211% |
| 54 | 10.859 | 3320 | 3328 | 3334 | rVV  | 195322  | 238389  | 3.43%  | 0.575% |
| 55 | 10.901 | 3334 | 3341 | 3353 | rVB2 | 174323  | 220603  | 3.17%  | 0.532% |
| 56 | 10.992 | 3353 | 3369 | 3383 | rBV2 | 208628  | 309403  | 4.45%  | 0.746% |
| 57 | 11.095 | 3391 | 3401 | 3407 | rBV  | 730884  | 824374  | 11.85% | 1.989% |
| 58 | 11.125 | 3407 | 3410 | 3420 | rVB  | 300079  | 310102  | 4.46%  | 0.748% |
| 59 | 11.205 | 3420 | 3435 | 3443 | rBV  | 372870  | 447940  | 6.44%  | 1.081% |
| 60 | 11.312 | 3463 | 3468 | 3471 | rBV4 | 89548   | 97382   | 1.40%  | 0.235% |
| 61 | 11.338 | 3471 | 3476 | 3483 | rVB  | 248075  | 270524  | 3.89%  | 0.653% |
| 62 | 11.536 | 3529 | 3537 | 3550 | rBV  | 1105993 | 1235893 | 17.77% | 2.982% |
| 63 | 11.756 | 3598 | 3605 | 3607 | rBV2 | 157102  | 163930  | 2.36%  | 0.396% |
| 64 | 11.775 | 3607 | 3611 | 3623 | rVB  | 320403  | 386785  | 5.56%  | 0.933% |
| 65 | 11.882 | 3637 | 3644 | 3652 | rVB2 | 283642  | 306988  | 4.41%  | 0.741% |
| 66 | 11.927 | 3652 | 3658 | 3669 | rBV  | 61702   | 81152   | 1.17%  | 0.196% |
| 67 | 12.021 | 3678 | 3687 | 3690 | rBV2 | 169022  | 185430  | 2.67%  | 0.447% |
| 68 | 12.044 | 3690 | 3694 | 3701 | rVV3 | 182889  | 195998  | 2.82%  | 0.473% |
| 69 | 12.089 | 3701 | 3708 | 3717 | rVB3 | 68367   | 92995   | 1.34%  | 0.224% |
| 70 | 12.225 | 3745 | 3750 | 3757 | rVB2 | 232420  | 240539  | 3.46%  | 0.580% |
| 71 | 12.270 | 3757 | 3764 | 3768 | rBV3 | 89236   | 112656  | 1.62%  | 0.272% |
| 72 | 12.296 | 3768 | 3772 | 3778 | rVB2 | 151298  | 151476  | 2.18%  | 0.365% |
| 73 | 12.406 | 3799 | 3806 | 3811 | rBV2 | 77262   | 82288   | 1.18%  | 0.199% |
| 74 | 12.442 | 3811 | 3817 | 3823 | rVV  | 83883   | 81868   | 1.18%  | 0.198% |
| 75 | 12.507 | 3832 | 3837 | 3842 | rBV3 | 135170  | 180313  | 2.59%  | 0.435% |
| 76 | 12.545 | 3846 | 3849 | 3855 | rVB3 | 85648   | 84565   | 1.22%  | 0.204% |

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Operator : SY/MD  
Sample : Q1726-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-3-03312025

Integration Parameters: RTEINT.P

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 3

Min Area: 3 % of largest Peak

Start Thrs: 0.001

Max Peaks: 100

Stop Thrs : 0

Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >

Peak separation: 0

Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M

Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

|    |        |      |      |      |      |        |        |       |        |
|----|--------|------|------|------|------|--------|--------|-------|--------|
| 77 | 12.587 | 3855 | 3862 | 3875 | rBV2 | 200079 | 276320 | 3.97% | 0.667% |
| 78 | 12.655 | 3875 | 3883 | 3894 | rBV7 | 61171  | 112749 | 1.62% | 0.272% |
| 79 | 12.830 | 3932 | 3937 | 3942 | rVB2 | 152238 | 143379 | 2.06% | 0.346% |
| 80 | 12.921 | 3956 | 3965 | 3970 | rBV  | 95568  | 108439 | 1.56% | 0.262% |
| 81 | 12.953 | 3970 | 3975 | 3983 | rVB2 | 126894 | 133643 | 1.92% | 0.322% |
| 82 | 13.128 | 4025 | 4029 | 4036 | rVB2 | 80477  | 79714  | 1.15% | 0.192% |
| 83 | 13.228 | 4054 | 4060 | 4066 | rBV2 | 102664 | 125661 | 1.81% | 0.303% |
| 84 | 13.335 | 4087 | 4093 | 4102 | rBV9 | 51672  | 82252  | 1.18% | 0.198% |
| 85 | 13.387 | 4102 | 4109 | 4116 | rVB3 | 120153 | 138551 | 1.99% | 0.334% |
| 86 | 13.662 | 4189 | 4194 | 4206 | rVB6 | 50970  | 81716  | 1.17% | 0.197% |

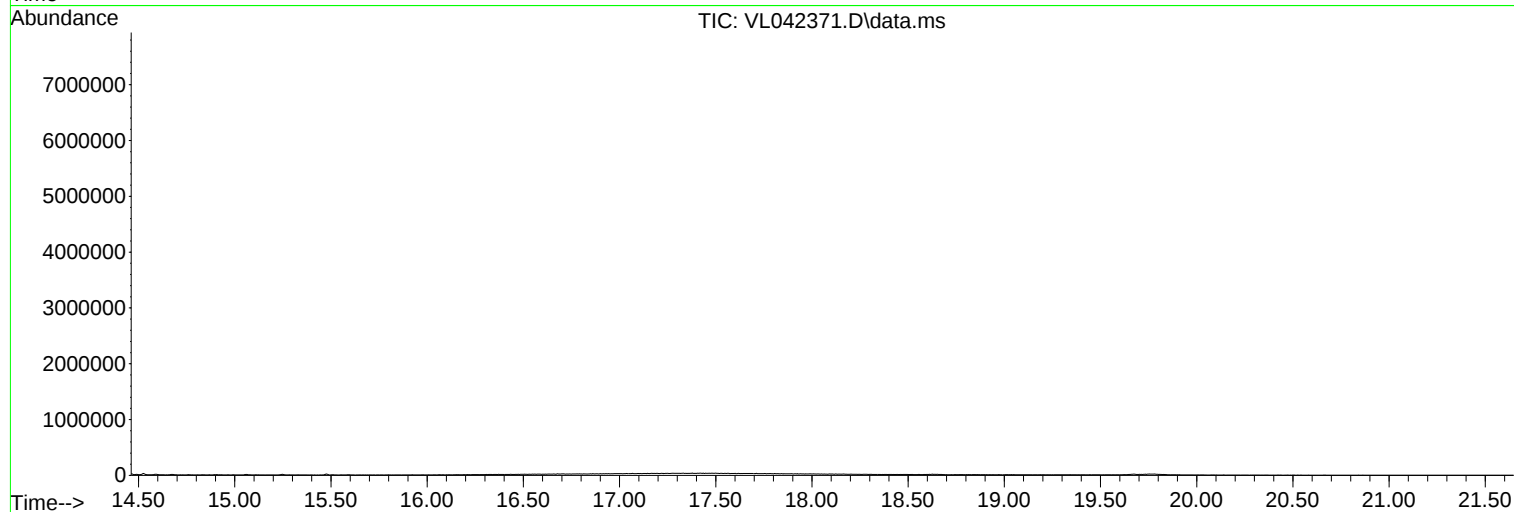
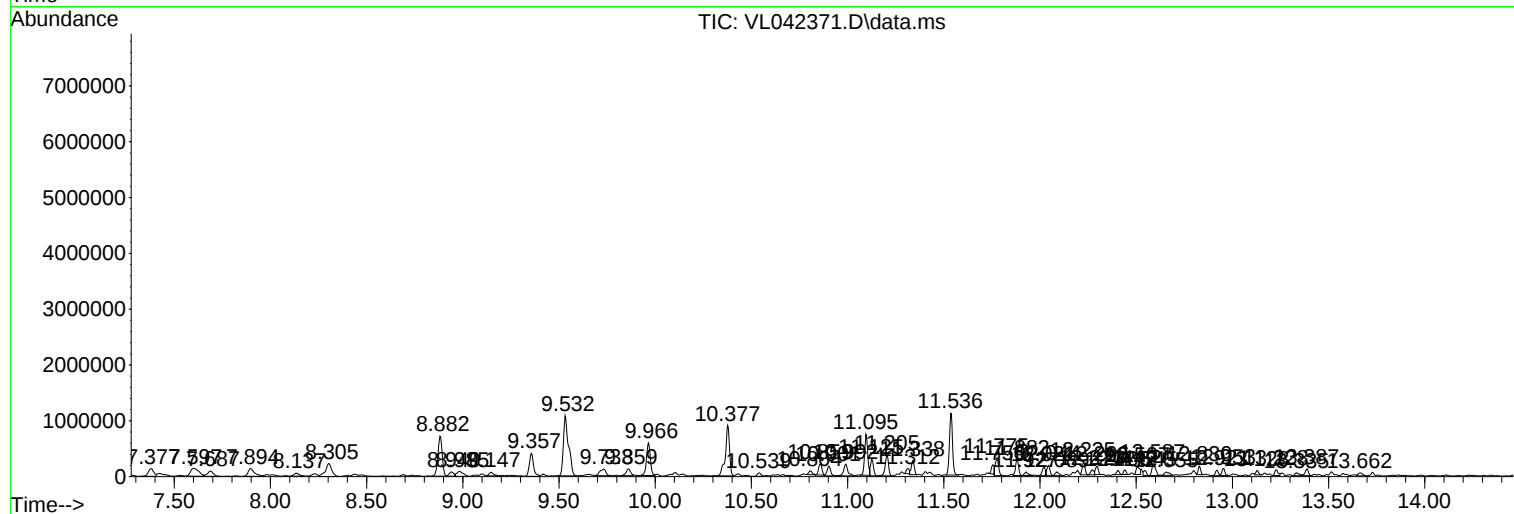
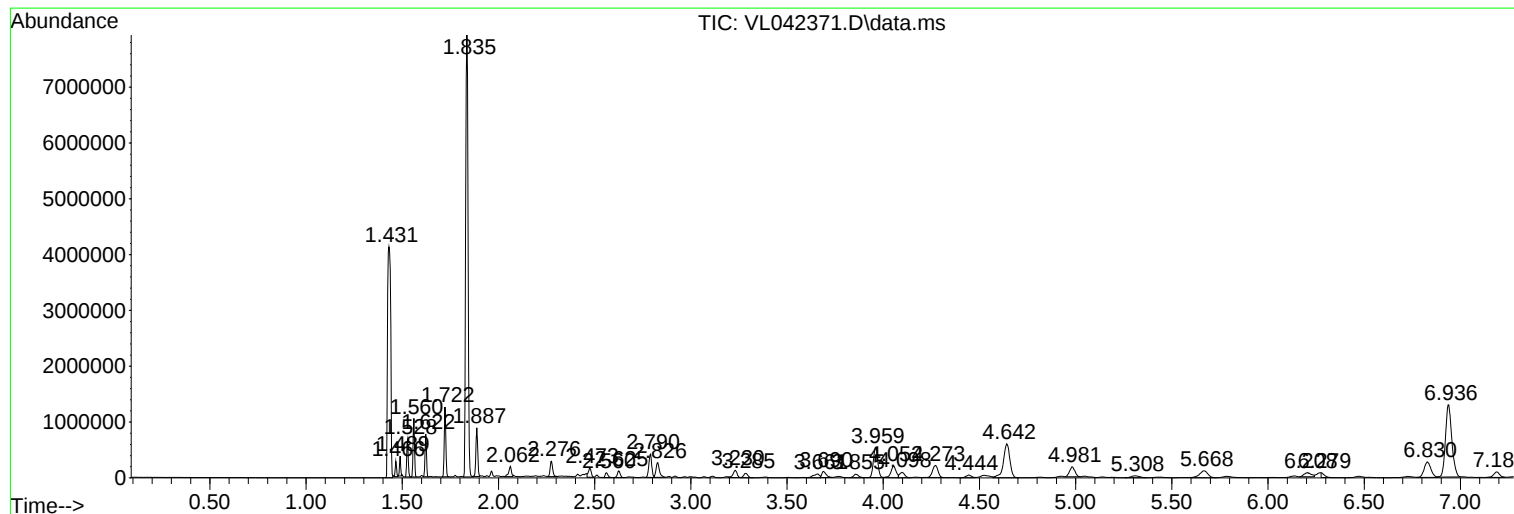
Sum of corrected areas: 41447231

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042371.D  
Acq On : 17 Apr 2025 22:52  
Operator : SY/MD  
Sample : Q1726-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-3-03312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

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



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042371.D  
Acq On : 17 Apr 2025 22:52  
Operator : SY/MD  
Sample : Q1726-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-3-03312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

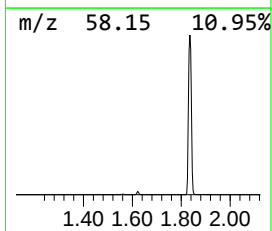
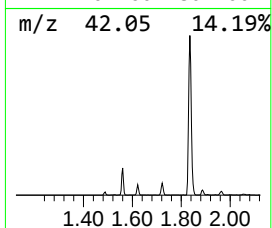
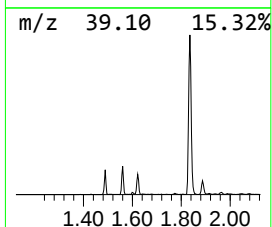
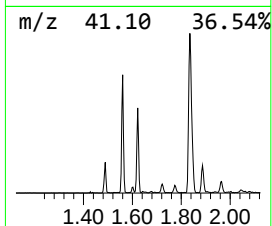
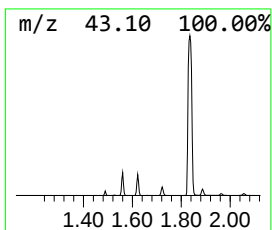
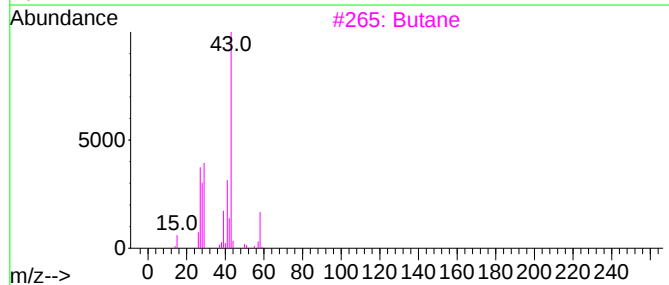
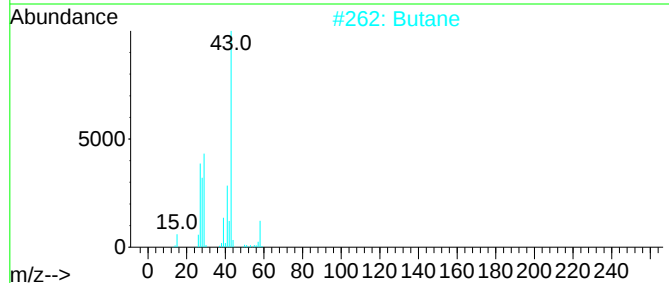
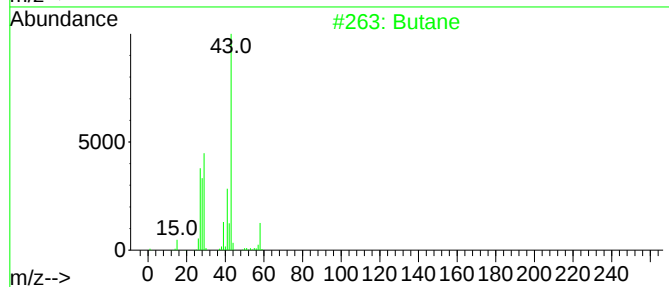
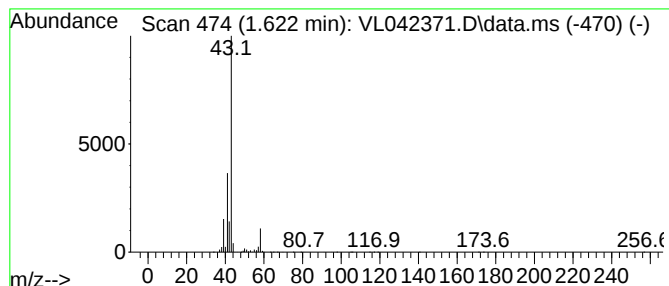
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 1 Butane Concentration Rank 1

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 1.622 | 8.99 ppbv | 390922 | Bromochloromethane | 2.787 |

| Hit# | of        | 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|-----------|---|--------------|----|---------|-------------|------|
| 1    | Butane    |   |              | 58 | C4H10   | 000106-97-8 | 80   |
| 2    | Butane    |   |              | 58 | C4H10   | 000106-97-8 | 80   |
| 3    | Butane    |   |              | 58 | C4H10   | 000106-97-8 | 72   |
| 4    | Butane    |   |              | 58 | C4H10   | 000106-97-8 | 72   |
| 5    | Isobutane |   |              | 58 | C4H10   | 000075-28-5 | 50   |



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MSVOA\_L  
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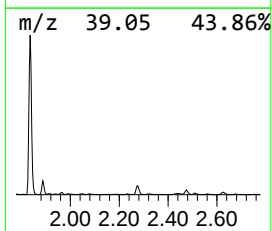
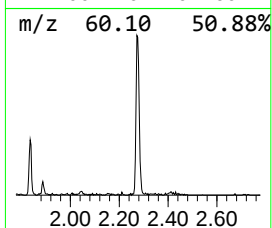
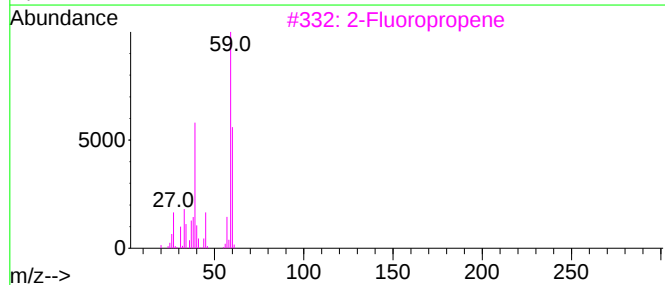
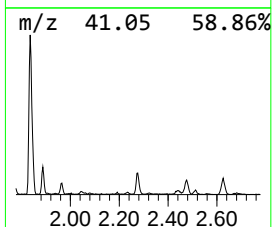
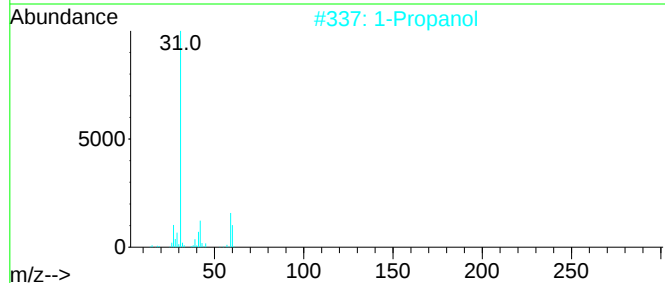
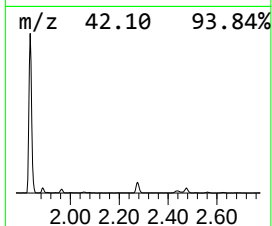
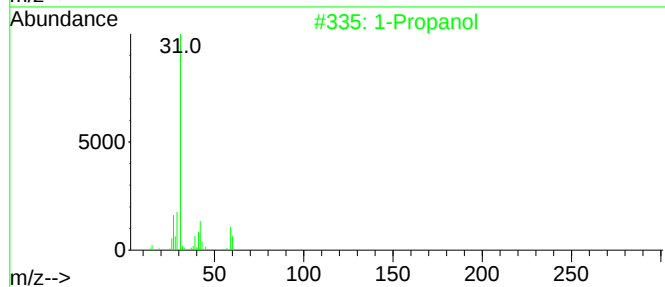
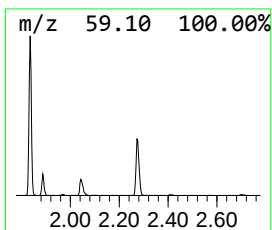
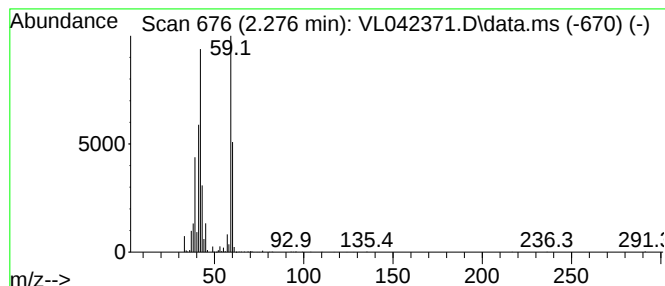
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

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

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Peak Number 2 1-Propanol Concentration Rank 3

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.276 | 5.61 ppbv | 243781 | Bromochloromethane | 2.787 |

| Hit# | of              | 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|-----------------|---|--------------|----|---------|-------------|------|
| 1    | 1-Propanol      |   |              | 60 | C3H8O   | 000071-23-8 | 58   |
| 2    | 1-Propanol      |   |              | 60 | C3H8O   | 000071-23-8 | 53   |
| 3    | 2-Fluoropropene |   |              | 60 | C3H5F   | 001184-60-7 | 53   |
| 4    | 2-Fluoropropene |   |              | 60 | C3H5F   | 001184-60-7 | 43   |
| 5    | 1-Propanol      |   |              | 60 | C3H8O   | 000071-23-8 | 40   |



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Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-3-03312025

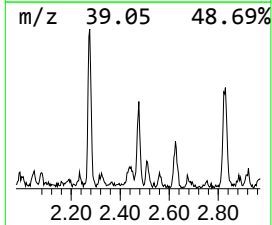
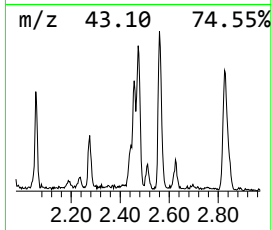
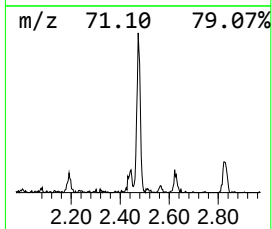
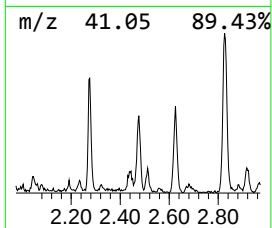
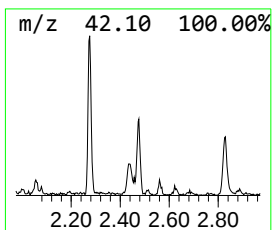
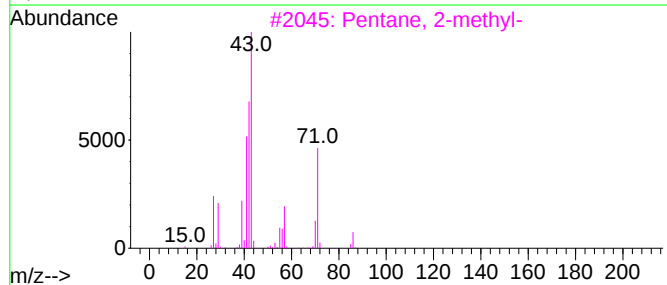
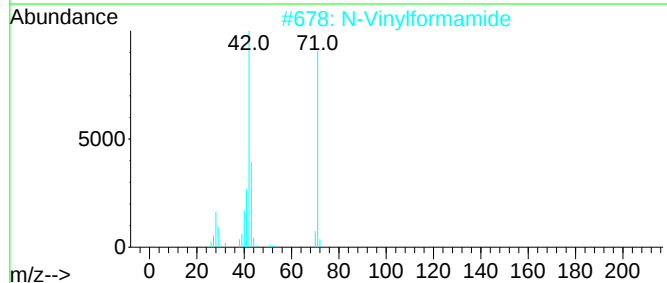
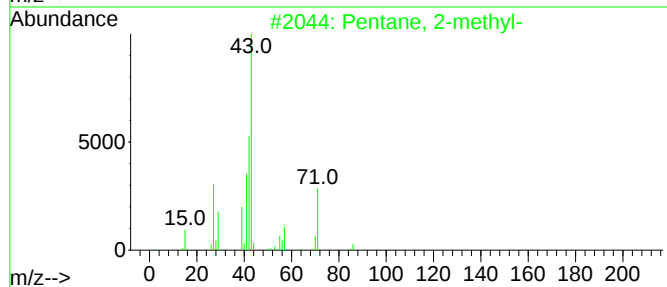
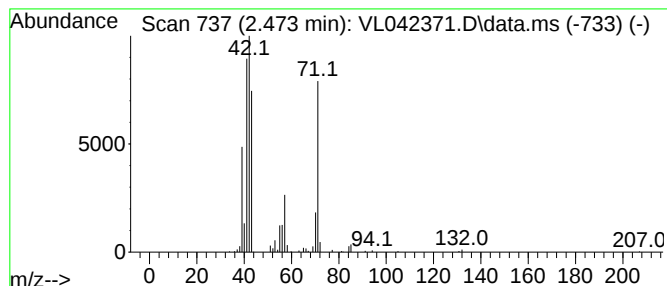
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

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

\*\*\*\*\*  
Peak Number 3 Pentane, 2-methyl- Concentration Rank 10

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 2.473 | 3.81 ppbv | 165794 | Bromochloromethane | 2.787 |

| Hit# | of | 5 | Tentative ID       | MW | MolForm | CAS#        | Qual |
|------|----|---|--------------------|----|---------|-------------|------|
| 1    |    |   | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 56   |
| 2    |    |   | N-Vinylformamide   | 71 | C3H5NO  | 013162-05-5 | 50   |
| 3    |    |   | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 45   |
| 4    |    |   | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 42   |
| 5    |    |   | Pentane, 2-methyl- | 86 | C6H14   | 000107-83-5 | 42   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042371.D  
Acq On : 17 Apr 2025 22:52  
Operator : SY/MD  
Sample : Q1726-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-3-03312025

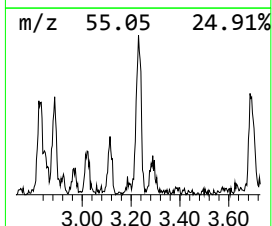
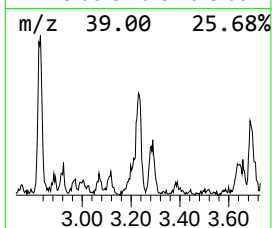
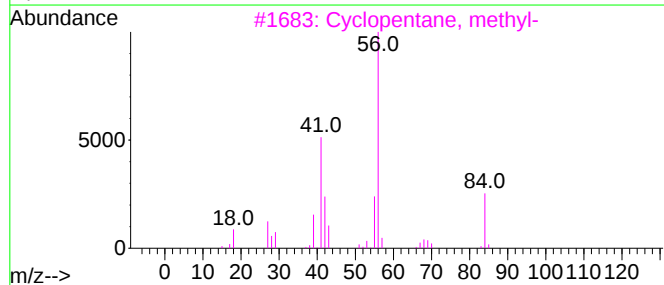
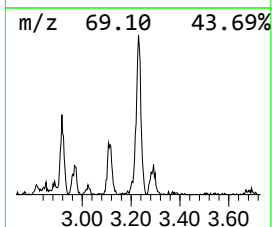
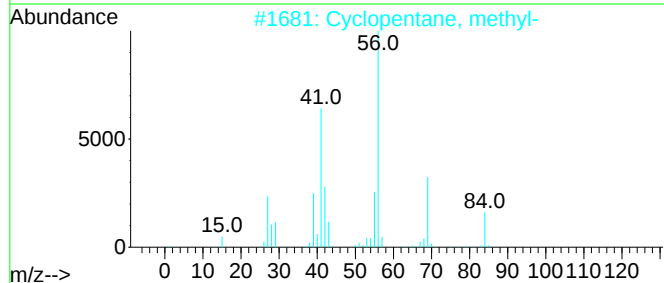
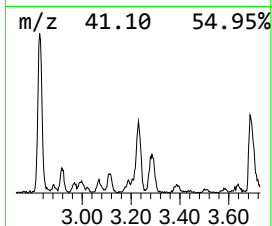
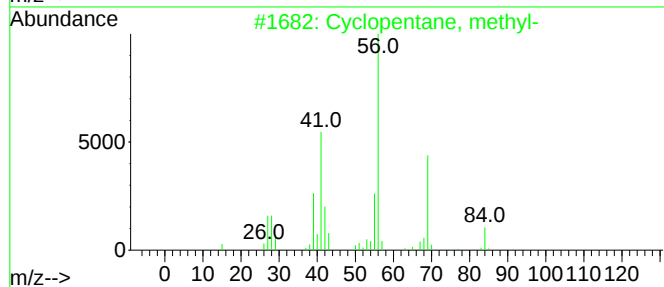
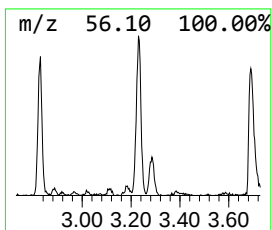
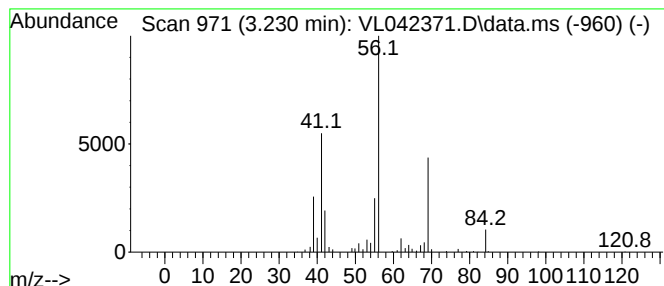
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

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

\*\*\*\*\*  
Peak Number 4 Cyclopentane, methyl- Concentration Rank 7

| R.T.  | EstConc   | Area   | Relative to ISTD   | R.T.  |
|-------|-----------|--------|--------------------|-------|
| 3.230 | 4.30 ppbv | 187052 | Bromochloromethane | 2.787 |

| Hit# | of | 5 | Tentative ID                | MW | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|----|---------|-------------|------|
| 1    |    |   | Cyclopentane, methyl-       | 84 | C6H12   | 000096-37-7 | 87   |
| 2    |    |   | Cyclopentane, methyl-       | 84 | C6H12   | 000096-37-7 | 86   |
| 3    |    |   | Cyclopentane, methyl-       | 84 | C6H12   | 000096-37-7 | 72   |
| 4    |    |   | Cyclobutane, ethyl-         | 84 | C6H12   | 004806-61-5 | 64   |
| 5    |    |   | Cyclopentane, 1,1-dimethyl- | 98 | C7H14   | 001638-26-2 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042371.D  
Acq On : 17 Apr 2025 22:52  
Operator : SY/MD  
Sample : Q1726-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-3-03312025

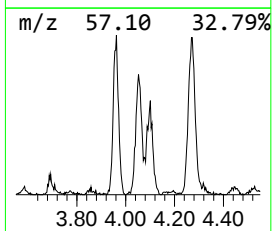
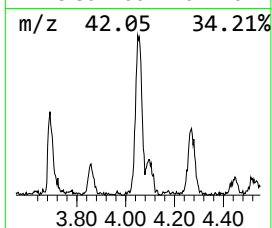
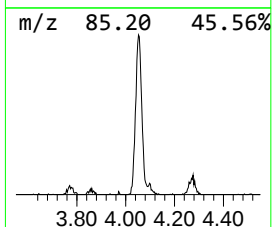
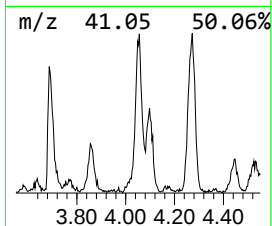
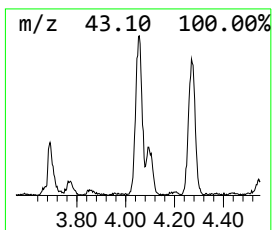
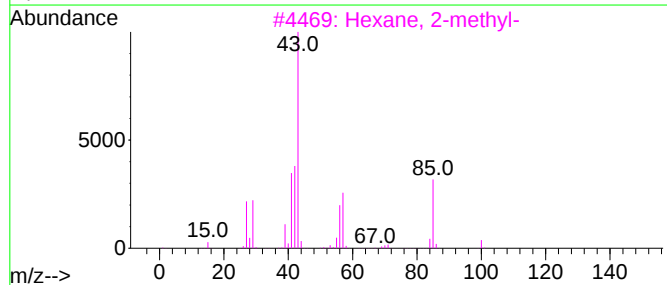
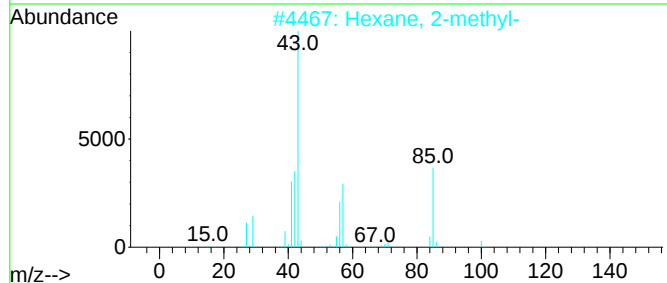
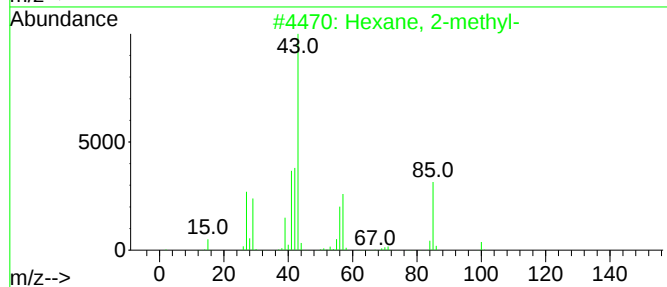
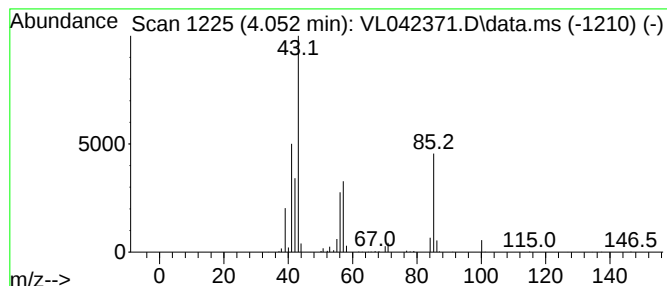
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

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

\*\*\*\*\*  
Peak Number 5 Hexane, 2-methyl- Concentration Rank 6

| R.T.  | EstConc   | Area   | Relative to ISTD    | R.T.  |
|-------|-----------|--------|---------------------|-------|
| 4.052 | 4.43 ppbv | 385722 | 1,4-Difluorobenzene | 3.959 |

| Hit# | of | 5 | Tentative ID           | MW  | MolForm | CAS#        | Qual |
|------|----|---|------------------------|-----|---------|-------------|------|
| 1    |    |   | Hexane, 2-methyl-      | 100 | C7H16   | 000591-76-4 | 91   |
| 2    |    |   | Hexane, 2-methyl-      | 100 | C7H16   | 000591-76-4 | 91   |
| 3    |    |   | Hexane, 2-methyl-      | 100 | C7H16   | 000591-76-4 | 91   |
| 4    |    |   | Heptane, 3-methyl-     | 114 | C8H18   | 000589-81-1 | 59   |
| 5    |    |   | Pentane, 2,4-dimethyl- | 100 | C7H16   | 000108-08-7 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042371.D  
Acq On : 17 Apr 2025 22:52  
Operator : SY/MD  
Sample : Q1726-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-3-03312025

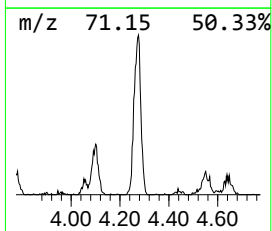
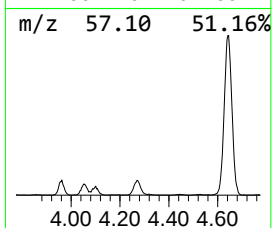
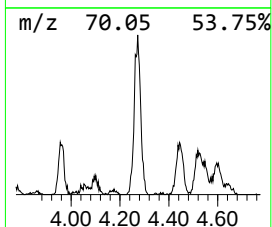
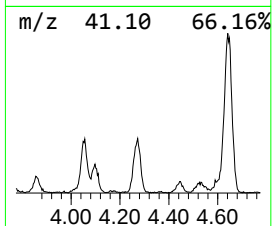
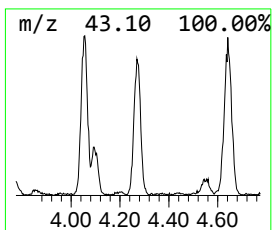
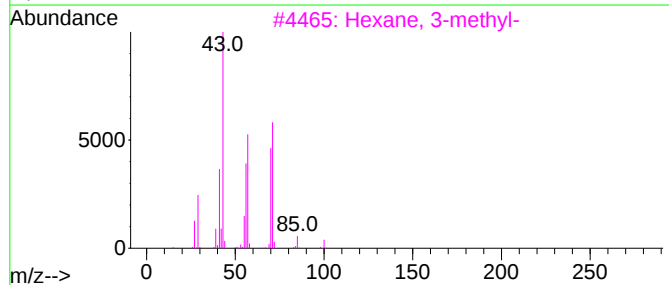
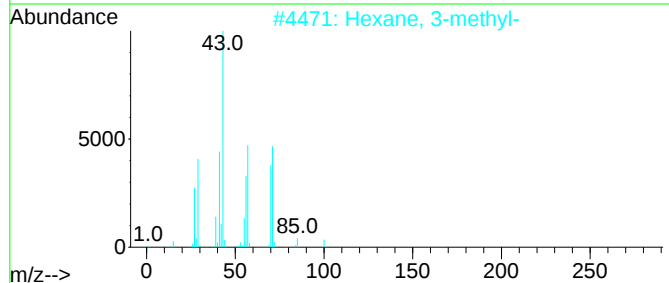
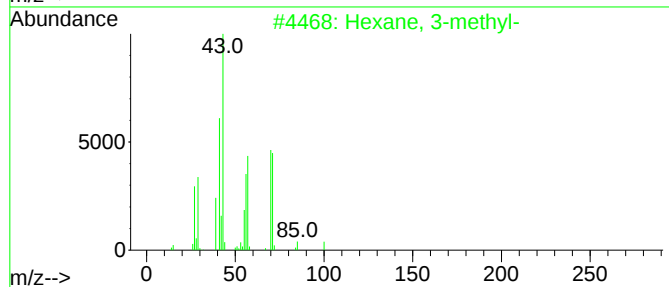
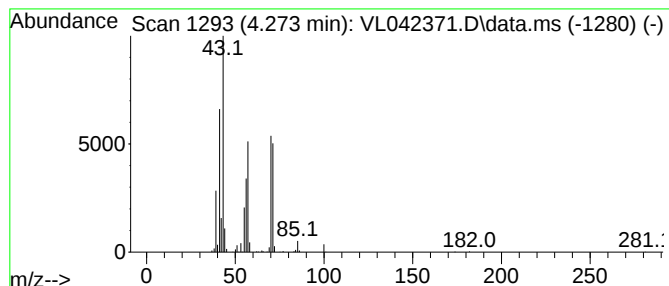
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

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

\*\*\*\*\*  
Peak Number 6 Hexane, 3-methyl- Concentration Rank 4

| R.T.  | EstConc   | Area   | Relative to ISTD    | R.T.  |
|-------|-----------|--------|---------------------|-------|
| 4.273 | 4.95 ppbv | 431196 | 1,4-Difluorobenzene | 3.959 |

| 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 | 90   |
| 4    |    |   | Pentane, 3-ethyl-  | 100 | C7H16   | 000617-78-7 | 64   |
| 5    |    |   | Heptane, 4-methyl- | 114 | C8H18   | 000589-53-7 | 64   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042371.D  
Acq On : 17 Apr 2025 22:52  
Operator : SY/MD  
Sample : Q1726-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-3-03312025

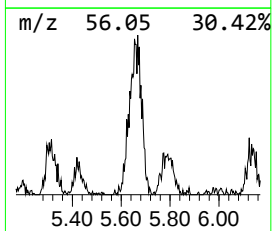
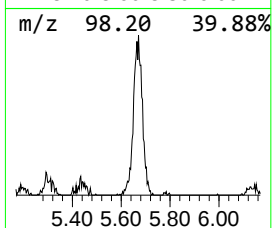
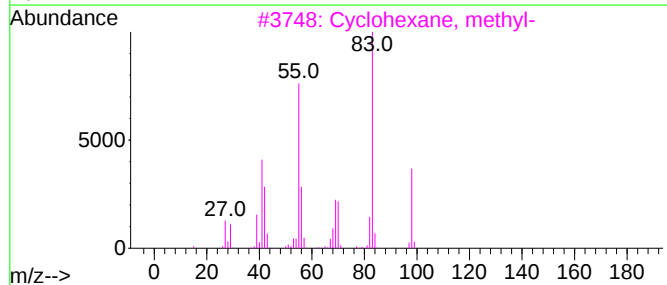
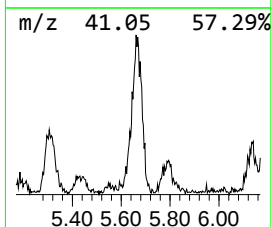
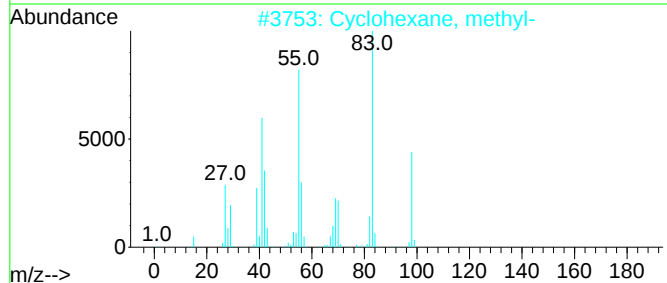
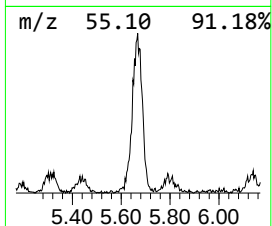
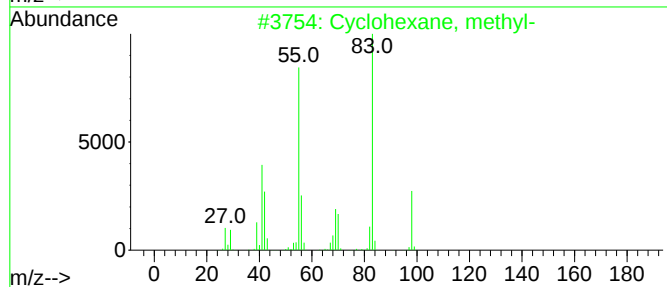
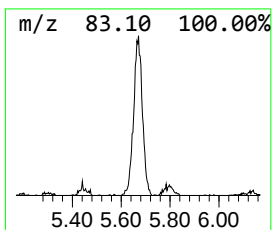
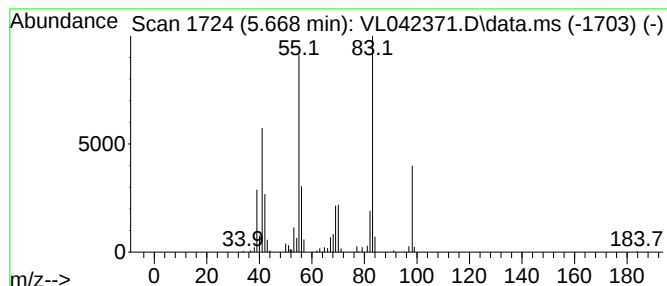
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Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

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

\*\*\*\*\*  
Peak Number 7 Cyclohexane, methyl- Concentration Rank 8

| R.T.  | EstConc   | Area   | Relative to ISTD    | R.T.  |
|-------|-----------|--------|---------------------|-------|
| 5.668 | 4.16 ppbv | 362805 | 1,4-Difluorobenzene | 3.959 |

| Hit# | of | 5 | Tentative ID         | MW | MolForm | CAS#        | Qual |
|------|----|---|----------------------|----|---------|-------------|------|
| 1    |    |   | Cyclohexane, methyl- | 98 | C7H14   | 000108-87-2 | 94   |
| 2    |    |   | Cyclohexane, methyl- | 98 | C7H14   | 000108-87-2 | 94   |
| 3    |    |   | Cyclohexane, methyl- | 98 | C7H14   | 000108-87-2 | 94   |
| 4    |    |   | Cyclohexane, methyl- | 98 | C7H14   | 000108-87-2 | 93   |
| 5    |    |   | Cyclohexane, methyl- | 98 | C7H14   | 000108-87-2 | 90   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042371.D  
Acq On : 17 Apr 2025 22:52  
Operator : SY/MD  
Sample : Q1726-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-3-03312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

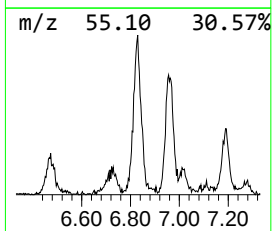
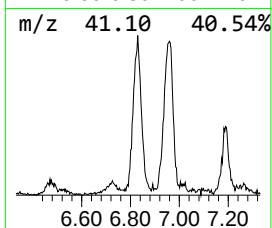
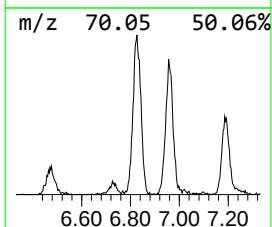
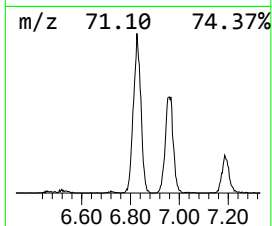
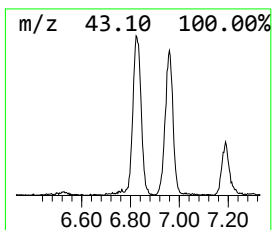
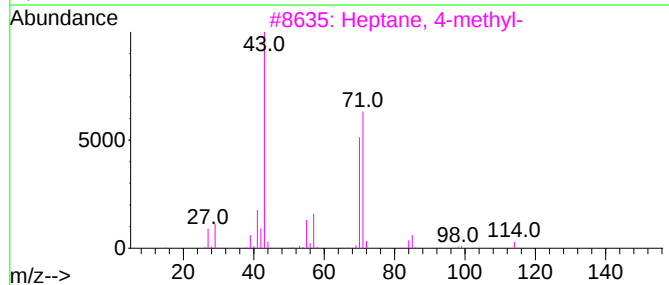
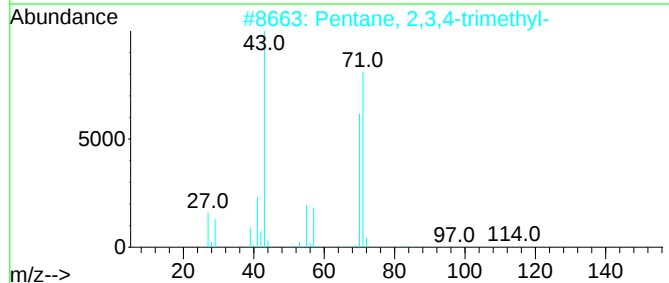
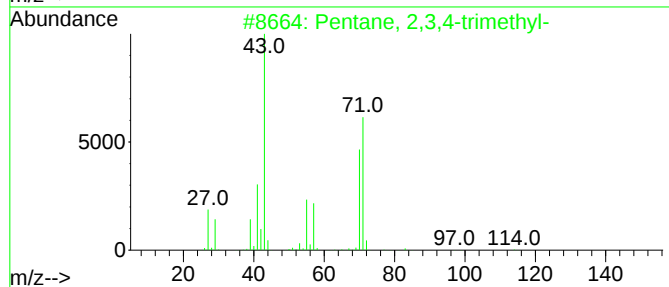
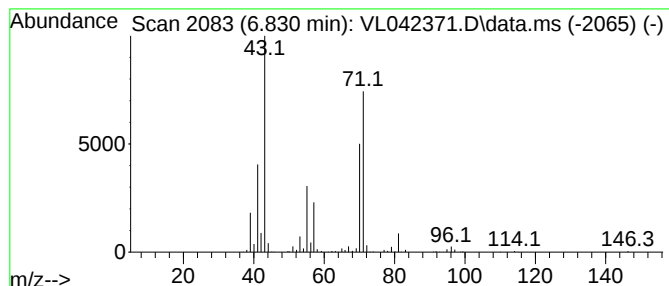
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Pentane, 2,3,4-trimethyl- Concentration Rank 2

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 6.830 | 6.21 ppbv | 681902 | Chlorobenzene-d5 | 8.882 |

| Hit# | of | 5 | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---|---------------------------|-----|---------|-------------|------|
| 1    |    |   | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 90   |
| 2    |    |   | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 90   |
| 3    |    |   | Heptane, 4-methyl-        | 114 | C8H18   | 000589-53-7 | 78   |
| 4    |    |   | Pentane, 2,3,4-trimethyl- | 114 | C8H18   | 000565-75-3 | 74   |
| 5    |    |   | Decane, 3,3,4-trimethyl-  | 184 | C13H28  | 049622-18-6 | 72   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042371.D  
Acq On : 17 Apr 2025 22:52  
Operator : SY/MD  
Sample : Q1726-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-3-03312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

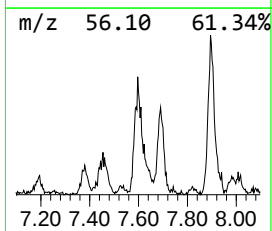
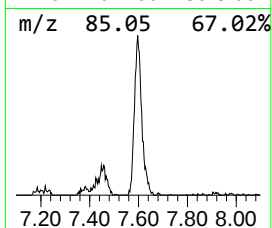
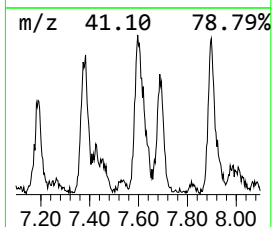
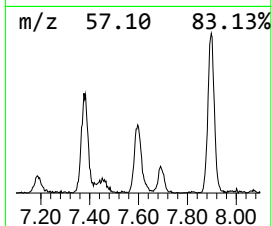
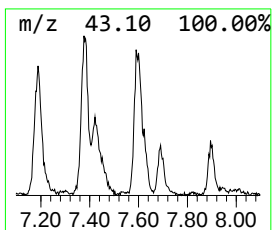
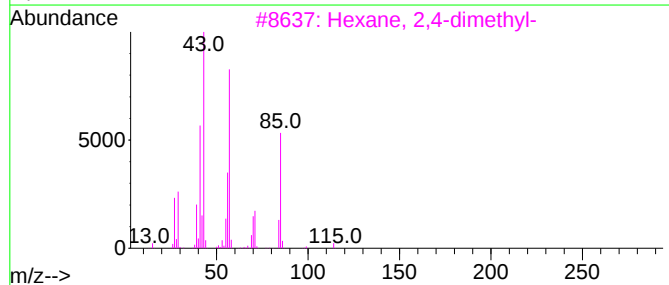
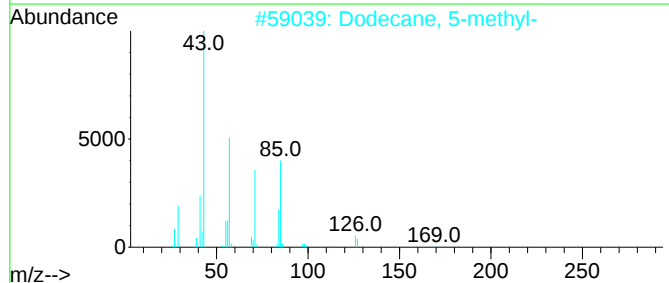
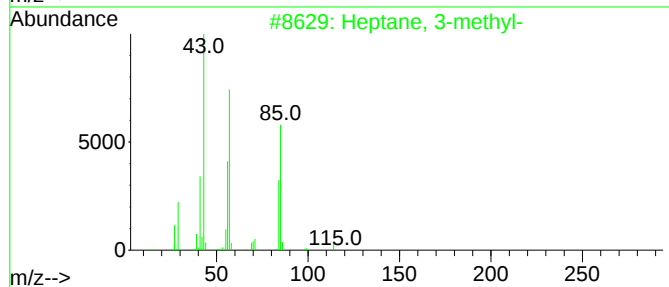
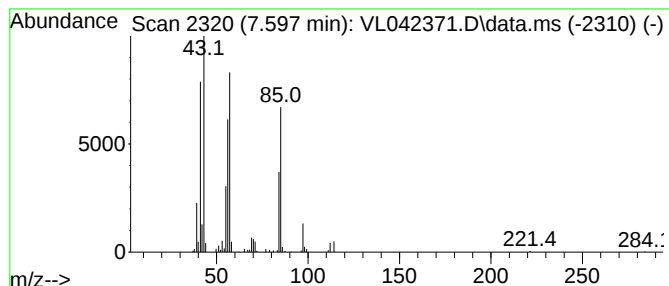
TIC Library : C:\Database\NIST20.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 9 Heptane, 3-methyl- Concentration Rank 9

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 7.597 | 3.84 ppbv | 421885 | Chlorobenzene-d5 | 8.882 |

| Hit# | of 5 | Tentative ID                        | MW  | MolForm | CAS#        | Qual |
|------|------|-------------------------------------|-----|---------|-------------|------|
| 1    |      | Heptane, 3-methyl-                  | 114 | C8H18   | 000589-81-1 | 62   |
| 2    |      | Dodecane, 5-methyl-                 | 184 | C13H28  | 017453-93-9 | 50   |
| 3    |      | Hexane, 2,4-dimethyl-               | 114 | C8H18   | 000589-43-5 | 49   |
| 4    |      | 2H-Pyran, 2-(1,1-dimethylethoxy)... | 158 | C9H18O2 | 001927-69-1 | 47   |
| 5    |      | Hexane, 3,4-dimethyl-               | 114 | C8H18   | 000583-48-2 | 47   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042371.D  
Acq On : 17 Apr 2025 22:52  
Operator : SY/MD  
Sample : Q1726-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-3-03312025

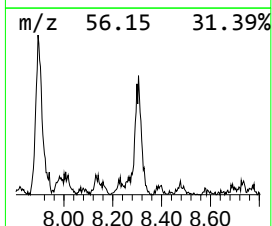
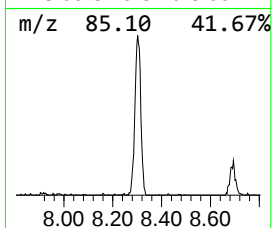
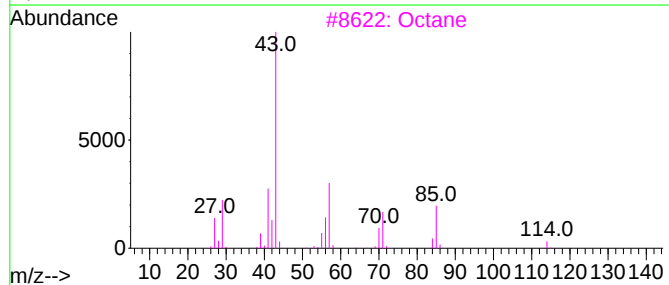
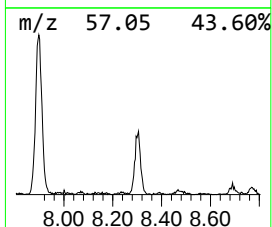
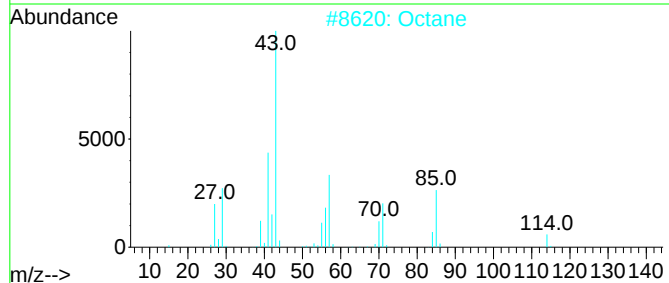
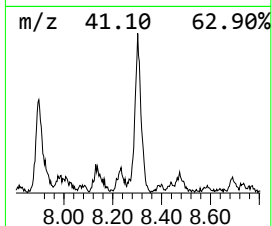
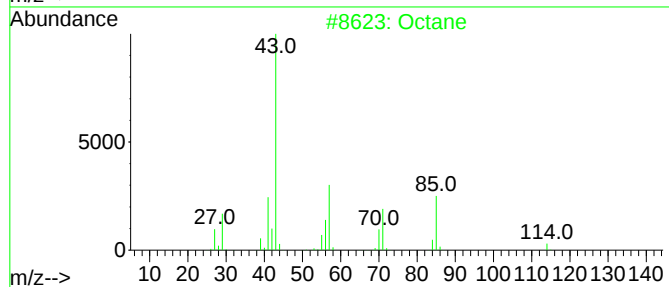
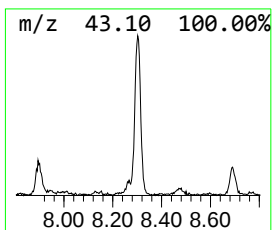
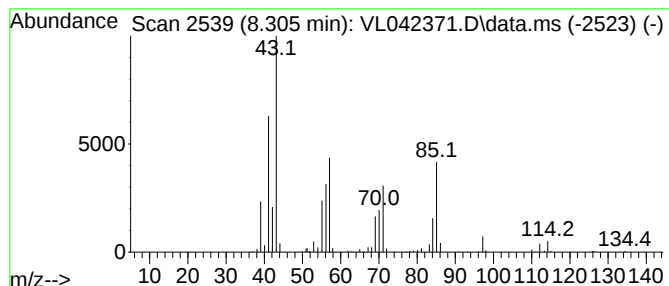
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

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

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Peak Number 10 Octane Concentration Rank 5

| R.T.  | EstConc   | Area   | Relative to ISTD | R.T.  |
|-------|-----------|--------|------------------|-------|
| 8.305 | 4.72 ppbv | 517768 | Chlorobenzene-d5 | 8.882 |

| Hit# | of 5                   | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|------------------------|--------------|-----|---------|-------------|------|
| 1    | Octane                 |              | 114 | C8H18   | 000111-65-9 | 86   |
| 2    | Octane                 |              | 114 | C8H18   | 000111-65-9 | 86   |
| 3    | Octane                 |              | 114 | C8H18   | 000111-65-9 | 86   |
| 4    | Octane                 |              | 114 | C8H18   | 000111-65-9 | 80   |
| 5    | Heptane, 2,4-dimethyl- |              | 128 | C9H20   | 002213-23-2 | 53   |



Data Path : Z:\voasrv\HPCHEM1\MSVOA\_L\Data\VL041725\  
Data File : VL042371.D  
Acq On : 17 Apr 2025 22:52  
Operator : SY/MD  
Sample : Q1726-06  
Misc : 400mL/MSVOA\_L  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_L  
ClientSampleId :  
IA-B2-3-03312025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_L\methods\VL041725AIR.M  
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA\_L Fri Aug 26 06:05:16 2022

TIC Library : C:\Database\NIST0.L  
TIC Integration Parameters: LSCINT.P

| TIC Top Hit name   | RT    | EstConc | Units | Response | --Internal Standard-- |       |         |      |
|--------------------|-------|---------|-------|----------|-----------------------|-------|---------|------|
|                    |       |         |       |          | #                     | RT    | Resp    | Conc |
| Butane             | 1.622 | 9.0     | ppbv  | 390922   | 1                     | 2.787 | 434667  | 10.0 |
| 1-Propanol         | 2.276 | 5.6     | ppbv  | 243781   | 1                     | 2.787 | 434667  | 10.0 |
| Pentane, 2-methyl- | 2.473 | 3.8     | ppbv  | 165794   | 1                     | 2.787 | 434667  | 10.0 |
| Cyclopentane, m... | 3.230 | 4.3     | ppbv  | 187052   | 1                     | 2.787 | 434667  | 10.0 |
| Hexane, 2-methyl-  | 4.052 | 4.4     | ppbv  | 385722   | 2                     | 3.959 | 871230  | 10.0 |
| Hexane, 3-methyl-  | 4.273 | 5.0     | ppbv  | 431196   | 2                     | 3.959 | 871230  | 10.0 |
| Cyclohexane, me... | 5.668 | 4.2     | ppbv  | 362805   | 2                     | 3.959 | 871230  | 10.0 |
| Pentane, 2,3,4-... | 6.830 | 6.2     | ppbv  | 681902   | 3                     | 8.882 | 1097660 | 10.0 |
| Heptane, 3-methyl- | 7.597 | 3.8     | ppbv  | 421885   | 3                     | 8.882 | 1097660 | 10.0 |
| Octane             | 8.305 | 4.7     | ppbv  | 517768   | 3                     | 8.882 | 1097660 | 10.0 |