

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV102423\  
 Data File : VV032590.D  
 Acq On : 24 Oct 2023 15:16  
 Operator : SY/MD  
 Sample : 04993-14  
 Misc : 25.0mL/MSVOA\_V/WATER  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 C0AY2

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Filtering: 5

Sampling : 1

Min Area: 3 % of largest Peak

Start Thrs: 0.1

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\SFAMVTR092923WMA.M  
 Title : TRACE VOA SFAM1.0

Signal : TIC: VV032590.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         | 1.085       | 8             | 14          | 22           | rBV      | 247467         | 234237        | 50.62%          | 6.279%        |
| 2         | 1.192       | 41            | 47          | 58           | rBV      | 29938          | 36963         | 7.99%           | 0.991%        |
| 3         | 1.275       | 64            | 73          | 84           | rBV2     | 159643         | 227944        | 49.26%          | 6.110%        |
| 4         | 1.327       | 85            | 89          | 97           | rVB      | 13512          | 13880         | 3.00%           | 0.372%        |
| 5         | 1.388       | 101           | 108         | 123          | rBV3     | 29594          | 47632         | 10.29%          | 1.277%        |
| 6         | 1.532       | 137           | 153         | 166          | rBV2     | 48162          | 72125         | 15.59%          | 1.933%        |
| 7         | 1.600       | 166           | 174         | 181          | rVV      | 21468          | 28460         | 6.15%           | 0.763%        |
| 8         | 1.728       | 206           | 214         | 220          | rBV      | 46700          | 59497         | 12.86%          | 1.595%        |
| 9         | 1.764       | 220           | 225         | 240          | rVB      | 25365          | 33119         | 7.16%           | 0.888%        |
| 10        | 1.857       | 246           | 254         | 262          | rBV2     | 14508          | 20524         | 4.44%           | 0.550%        |
| 11        | 1.937       | 272           | 279         | 285          | rVB      | 6031           | 8216          | 1.78%           | 0.220%        |
| 12        | 2.060       | 309           | 317         | 334          | rVB      | 56159          | 88106         | 19.04%          | 2.362%        |
| 13        | 2.188       | 343           | 357         | 365          | rVB4     | 8465           | 19803         | 4.28%           | 0.531%        |
| 14        | 2.243       | 365           | 374         | 383          | rBV      | 12889          | 19086         | 4.12%           | 0.512%        |
| 15        | 2.384       | 410           | 418         | 432          | rBV6     | 8982           | 19778         | 4.27%           | 0.530%        |
| 16        | 2.629       | 481           | 494         | 496          | rBV9     | 3104           | 5642          | 1.22%           | 0.151%        |
| 17        | 2.883       | 564           | 573         | 587          | rBV7     | 4682           | 9018          | 1.95%           | 0.242%        |
| 18        | 2.966       | 592           | 599         | 611          | rVB7     | 3084           | 5963          | 1.29%           | 0.160%        |
| 19        | 3.812       | 848           | 862         | 899          | rBV2     | 47255          | 199838        | 43.19%          | 5.357%        |
| 20        | 3.998       | 913           | 920         | 934          | rVB6     | 5758           | 12911         | 2.79%           | 0.346%        |
| 21        | 4.252       | 984           | 999         | 1020         | rBV      | 47622          | 125838        | 27.20%          | 3.373%        |
| 22        | 4.368       | 1023          | 1035        | 1056         | rVB3     | 10185          | 29591         | 6.40%           | 0.793%        |
| 23        | 4.960       | 1204          | 1219        | 1237         | rBV2     | 104909         | 275169        | 59.47%          | 7.376%        |
| 24        | 5.539       | 1387          | 1399        | 1415         | rBV      | 105851         | 221397        | 47.85%          | 5.935%        |
| 25        | 5.992       | 1527          | 1540        | 1553         | rBV2     | 69383          | 147099        | 31.79%          | 3.943%        |
| 26        | 6.918       | 1819          | 1828        | 1841         | rBV2     | 25877          | 51214         | 11.07%          | 1.373%        |
| 27        | 7.249       | 1920          | 1931        | 1949         | rBV      | 103997         | 207632        | 44.87%          | 5.566%        |
| 28        | 7.561       | 2020          | 2028        | 2052         | rBV      | 16508          | 35961         | 7.77%           | 0.964%        |
| 29        | 7.911       | 2126          | 2137        | 2151         | rVB2     | 16977          | 32100         | 6.94%           | 0.860%        |
| 30        | 8.030       | 2164          | 2174        | 2204         | rBV      | 216513         | 462704        | 100.00%         | 12.403%       |
| 31        | 8.789       | 2397          | 2410        | 2430         | rBV      | 179004         | 323946        | 70.01%          | 8.683%        |
| 32        | 10.156      | 2824          | 2835        | 2852         | rBV      | 69696          | 114641        | 24.78%          | 3.073%        |
| 33        | 10.992      | 3084          | 3095        | 3107         | rBV2     | 7518           | 13927         | 3.01%           | 0.373%        |
| 34        | 11.188      | 3145          | 3156        | 3173         | rVB      | 179590         | 281521        | 60.84%          | 7.546%        |
| 35        | 11.500      | 3242          | 3253        | 3260         | rBV9     | 5443           | 10587         | 2.29%           | 0.284%        |
| 36        | 11.564      | 3262          | 3273        | 3291         | rVB      | 135550         | 218313        | 47.18%          | 5.852%        |

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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AY2

Integration Parameters: rteint.p  
Integrator: RTE  
Smoothing : ON Filtering: 5  
Sampling : 1 Min Area: 3 % of largest Peak  
Start Thrs: 0.1 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\SFAMVTR092923WMA.M  
Title : TRACE VOA SFAM1.0

|    |        |      |      |      |      |      |      |       |        |
|----|--------|------|------|------|------|------|------|-------|--------|
| 37 | 12.085 | 3426 | 3435 | 3441 | rBV7 | 3255 | 4783 | 1.03% | 0.128% |
| 38 | 12.191 | 3461 | 3468 | 3477 | rBV8 | 3092 | 5377 | 1.16% | 0.144% |
| 39 | 12.291 | 3492 | 3499 | 3506 | rBV7 | 3863 | 6114 | 1.32% | 0.164% |

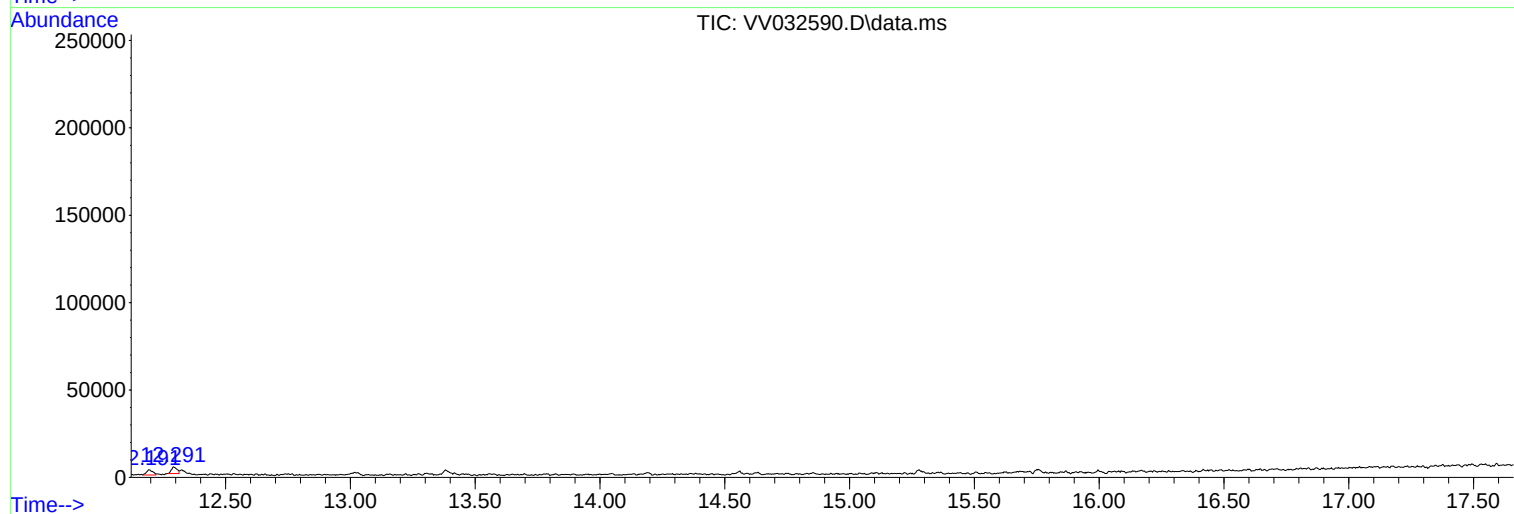
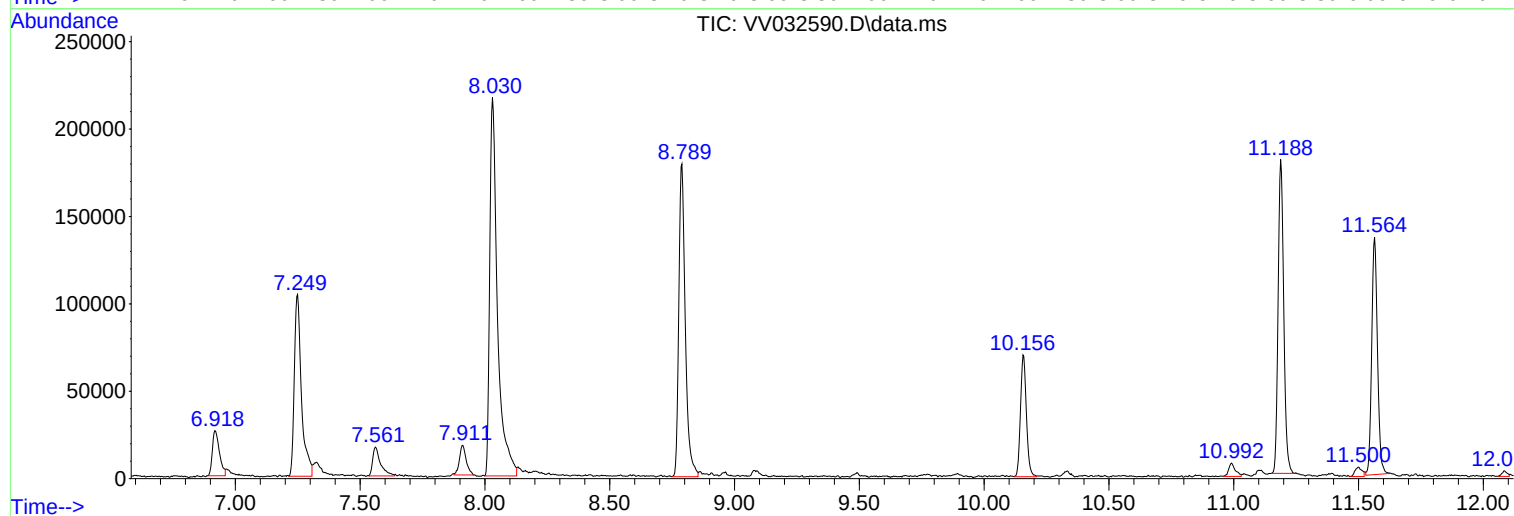
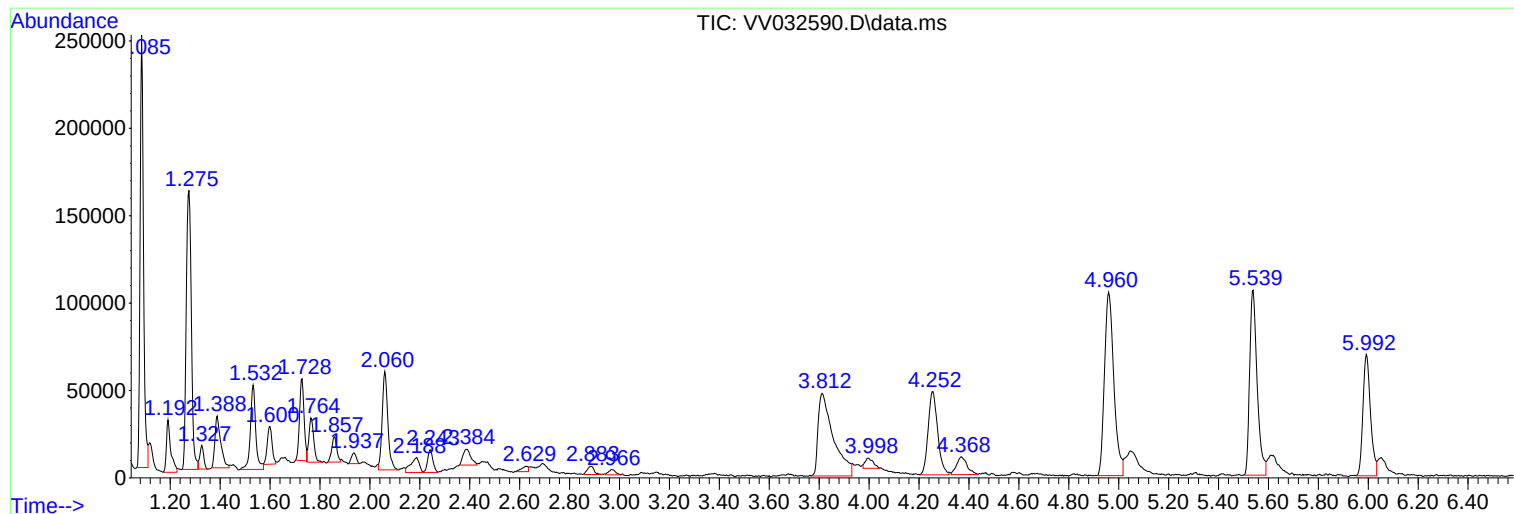
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C0AY2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR092923WMA.M  
Quant Title : TRACE VOA SFAM1.0

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



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Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AY2

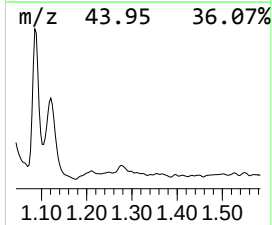
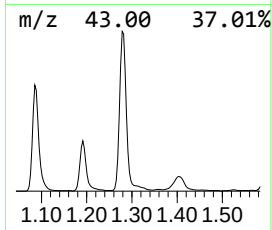
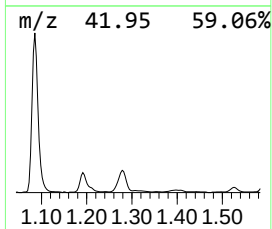
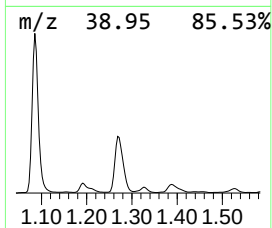
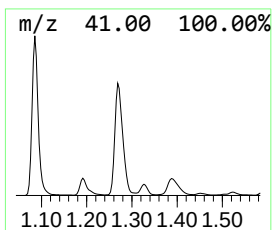
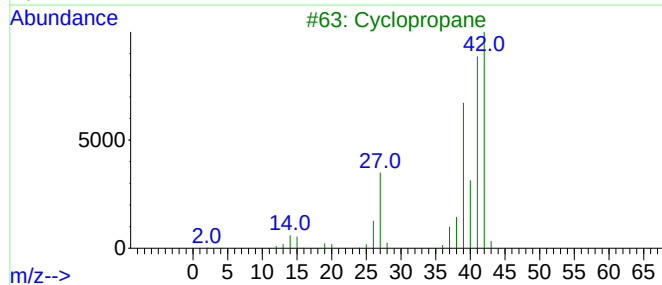
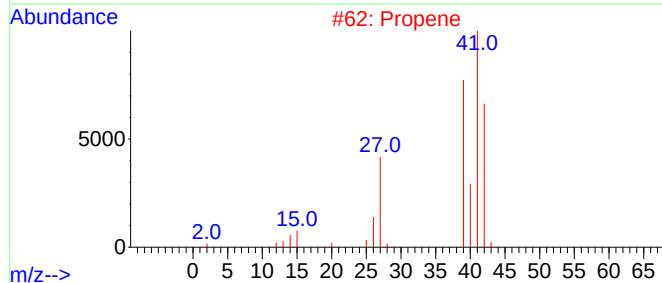
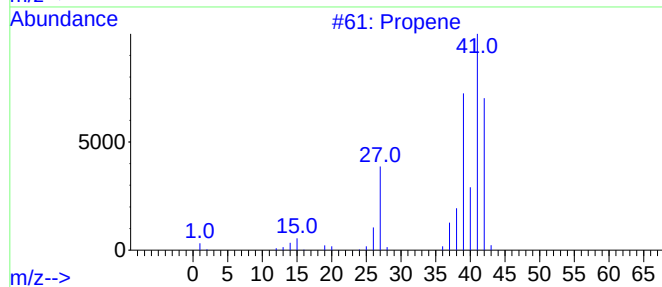
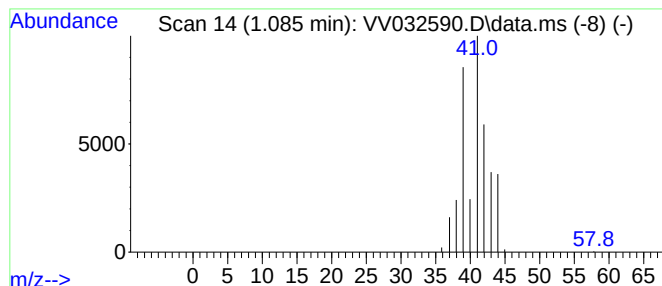
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Quant Title : TRACE VOA SFAM1.0

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

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

| R.T.  | EstConc   | Area   | Relative to ISTD    | R.T.  |
|-------|-----------|--------|---------------------|-------|
| 1.085 | 5.29 ug/L | 234237 | 1,4-Difluorobenzene | 5.539 |

| Hit# | of | 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|----|---|--------------|----|---------|-------------|------|
| 1    |    |   | Propene      | 42 | C3H6    | 000115-07-1 | 90   |
| 2    |    |   | Propene      | 42 | C3H6    | 000115-07-1 | 42   |
| 3    |    |   | Cyclopropane | 42 | C3H6    | 000075-19-4 | 7    |
| 4    |    |   | Cyclopropane | 42 | C3H6    | 000075-19-4 | 5    |
| 5    |    |   | Cyclopropene | 40 | C3H4    | 002781-85-3 | 5    |



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MSVOA\_V  
ClientSampleId :  
C0AY2

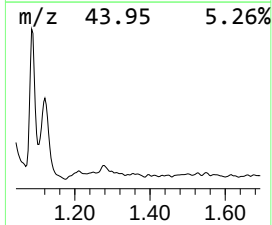
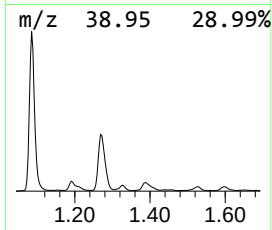
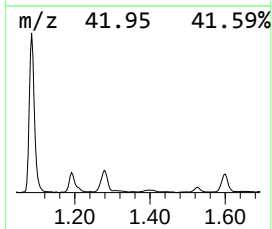
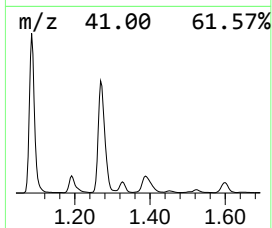
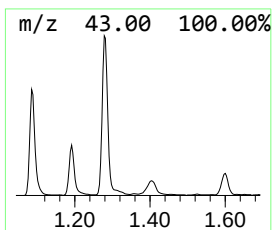
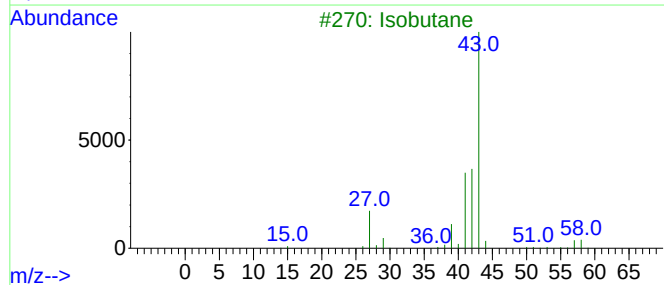
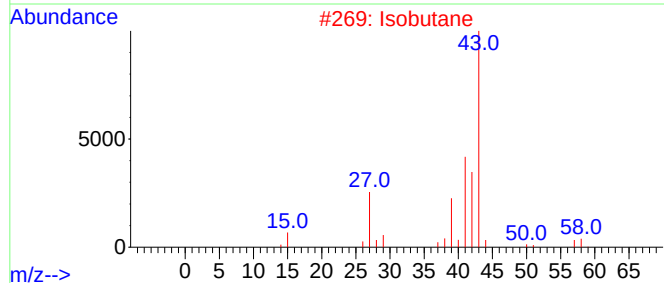
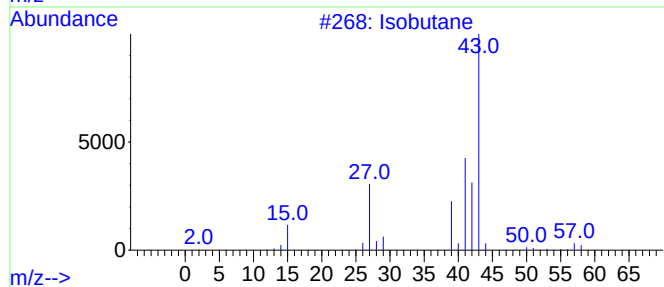
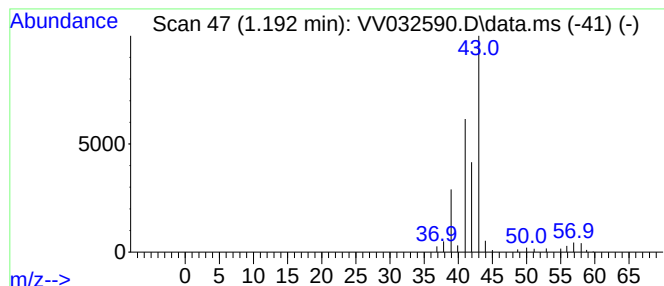
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR092923WMA.M  
Quant Title : TRACE VOA SFAM1.0

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

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Peak Number 2 (DEL) Alkane: Straight-Chai... Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 1.192 | 0.83 ug/L | 36963 | 1,4-Difluorobenzene | 5.539 |

| Hit# | of 5 | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|------|--------------|----|---------|-------------|------|
| 1    |      | Isobutane    | 58 | C4H10   | 000075-28-5 | 72   |
| 2    |      | Isobutane    | 58 | C4H10   | 000075-28-5 | 56   |
| 3    |      | Isobutane    | 58 | C4H10   | 000075-28-5 | 50   |
| 4    |      | Isobutane    | 58 | C4H10   | 000075-28-5 | 36   |
| 5    |      | Isobutane    | 58 | C4H10   | 000075-28-5 | 33   |



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Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AY2

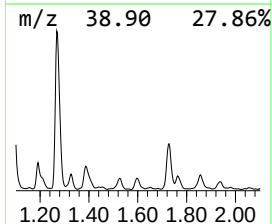
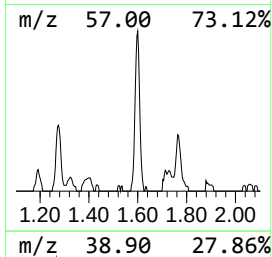
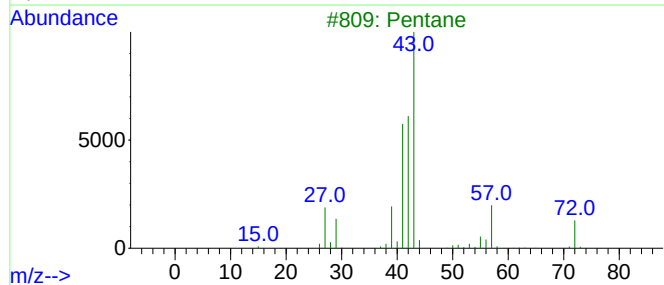
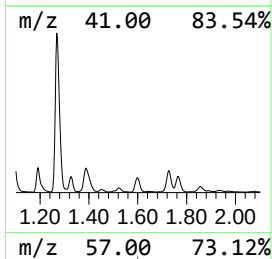
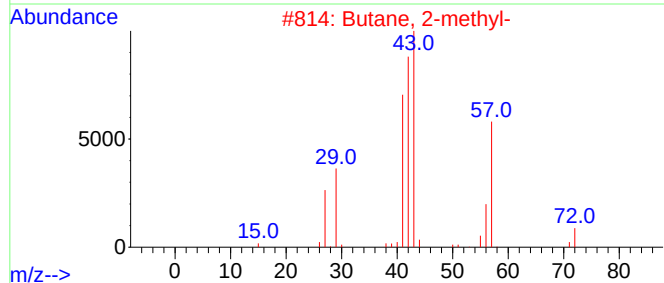
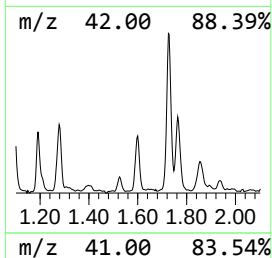
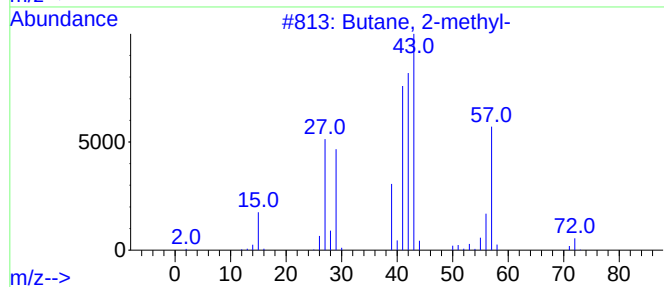
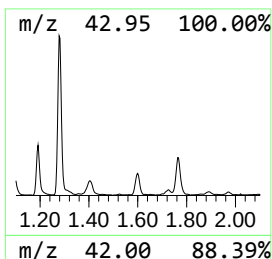
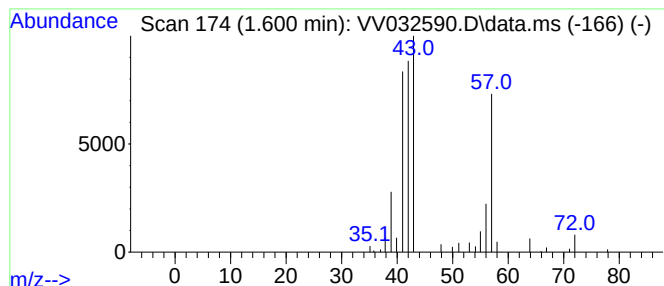
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR092923WMA.M  
Quant Title : TRACE VOA SFAM1.0

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

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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 8

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 1.600 | 0.64 ug/L | 28460 | 1,4-Difluorobenzene | 5.539 |

| Hit# | of | 5 | Tentative ID                      | MW  | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------------|-----|---------|-------------|------|
| 1    |    |   | Butane, 2-methyl-                 | 72  | C5H12   | 000078-78-4 | 86   |
| 2    |    |   | Butane, 2-methyl-                 | 72  | C5H12   | 000078-78-4 | 86   |
| 3    |    |   | Pentane                           | 72  | C5H12   | 000109-66-0 | 36   |
| 4    |    |   | 2(3H)-Furanone, dihydro-4-methyl- | 100 | C5H8O2  | 001679-49-8 | 25   |
| 5    |    |   | 3-Buten-1-ol                      | 72  | C4H8O   | 000627-27-0 | 23   |



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ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AY2

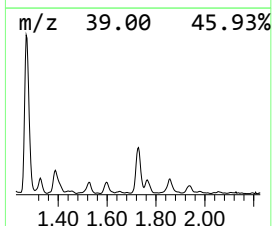
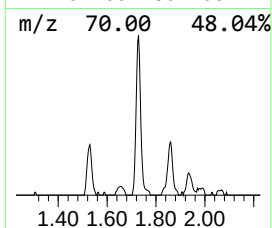
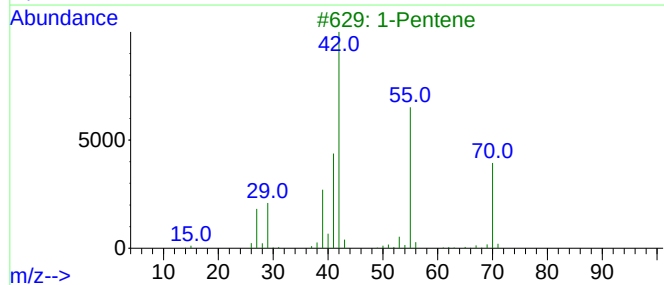
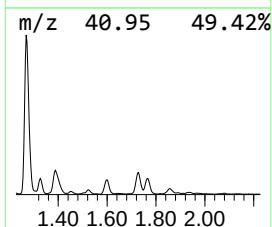
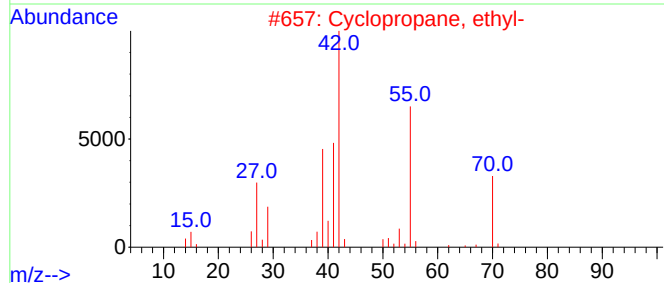
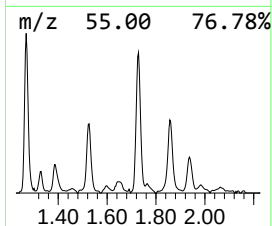
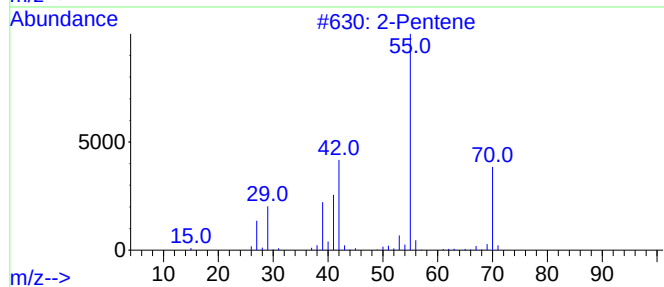
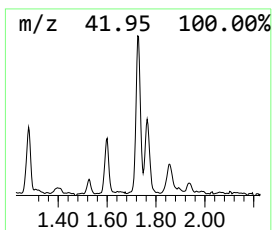
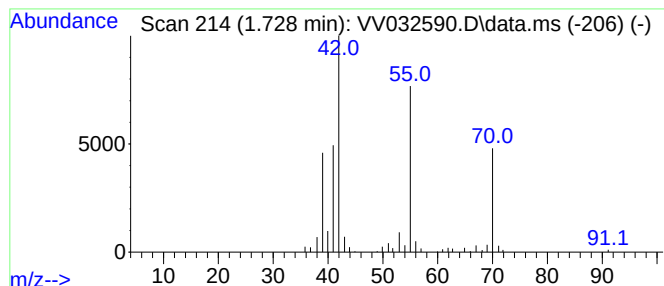
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Quant Title : TRACE VOA SFAM1.0

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

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Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 1.728 | 1.34 ug/L | 59497 | 1,4-Difluorobenzene | 5.539 |

| Hit# | of | 5 | Tentative ID         | MW | MolForm | CAS#        | Qual |
|------|----|---|----------------------|----|---------|-------------|------|
| 1    |    |   | 2-Pentene            | 70 | C5H10   | 000109-68-2 | 87   |
| 2    |    |   | Cyclopropane, ethyl- | 70 | C5H10   | 001191-96-4 | 87   |
| 3    |    |   | 1-Pentene            | 70 | C5H10   | 000109-67-1 | 74   |
| 4    |    |   | Cyclobutane, methyl- | 70 | C5H10   | 000598-61-8 | 72   |
| 5    |    |   | 1-Pentene            | 70 | C5H10   | 000109-67-1 | 68   |



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Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AY2

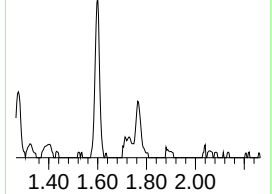
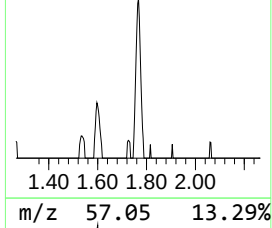
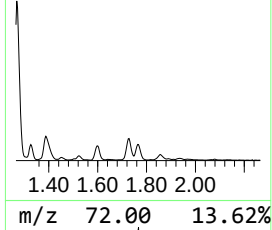
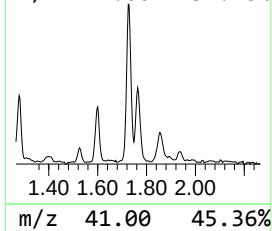
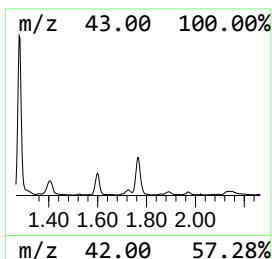
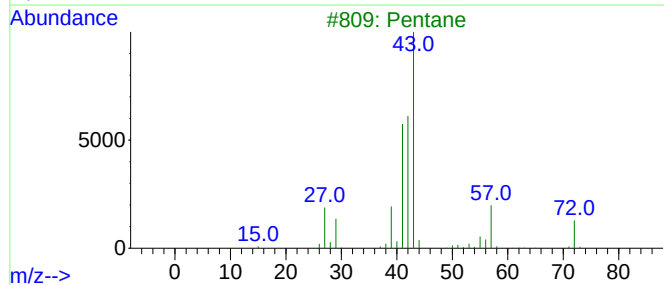
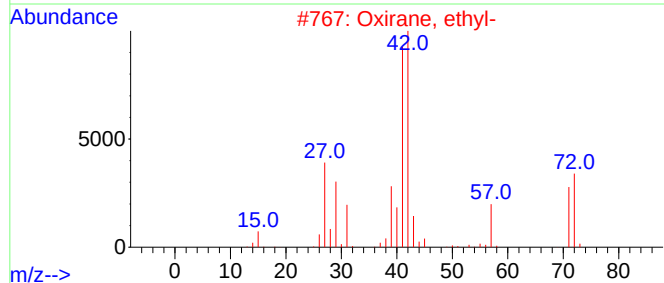
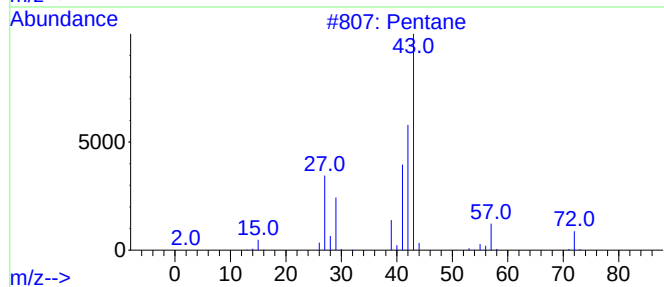
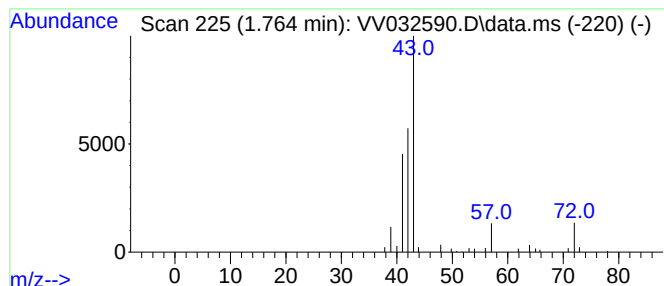
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR092923WMA.M  
Quant Title : TRACE VOA SFAM1.0

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

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

| R.T.  | EstConc   | Area  | Relative to ISTD    | R.T.  |
|-------|-----------|-------|---------------------|-------|
| 1.764 | 0.75 ug/L | 33119 | 1,4-Difluorobenzene | 5.539 |

| Hit# | of | 5 | Tentative ID    | MW | MolForm | CAS#        | Qual |
|------|----|---|-----------------|----|---------|-------------|------|
| 1    |    |   | Pentane         | 72 | C5H12   | 000109-66-0 | 72   |
| 2    |    |   | Oxirane, ethyl- | 72 | C4H8O   | 000106-88-7 | 50   |
| 3    |    |   | Pentane         | 72 | C5H12   | 000109-66-0 | 45   |
| 4    |    |   | Pentane         | 72 | C5H12   | 000109-66-0 | 42   |
| 5    |    |   | Oxirane, ethyl- | 72 | C4H8O   | 000106-88-7 | 40   |





Data Path : Z:\voasrv\HPCHEM1\MSVOA\_V\Data\VV102423\  
Data File : VV032590.D  
Acq On : 24 Oct 2023 15:16  
Operator : SY/MD  
Sample : 04993-14  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
C0AY2

Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_V\Method\SFAMVTR092923WMA.M  
Quant Title : TRACE VOA SFAM1.0

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... | 1.085 | 5.3     | ug/L  | 234237   | 1                     | 5.539 | 221397 | 5.0  |
| (DEL) Alkane: S... | 1.192 | 0.8     | ug/L  | 36963    | 1                     | 5.539 | 221397 | 5.0  |
| (DEL) Alkane: S... | 1.600 | 0.6     | ug/L  | 28460    | 1                     | 5.539 | 221397 | 5.0  |
| (DEL) Alkane: S... | 1.728 | 1.3     | ug/L  | 59497    | 1                     | 5.539 | 221397 | 5.0  |
| (DEL) Alkane: S... | 1.764 | 0.8     | ug/L  | 33119    | 1                     | 5.539 | 221397 | 5.0  |