

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU050720\  
 Data File : VU038041.D  
 Acq On : 07 May 2020 16:11  
 Operator : JC/MD  
 Sample : L2526-14  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 BFSH1

Integration Parameters: rteint.p

Integrator: RTE

Smoothing : ON

Sampling : 1

Start Thrs: 0.1

Stop Thrs : 0

Filtering: 5

Min Area: 3 % of largest Peak

Max Peaks: 100

Peak Location: TOP

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

Peak separation: 5

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M

Title : TRACE VOA SOM01.0

Signal : TIC

| 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         | 1.369       | 3             | 9           | 21           | rBV      | 415249         | 406039        | 30.38%          | 3.001%        |
| 2         | 1.504       | 44            | 51          | 59           | rBV      | 130252         | 132348        | 9.90%           | 0.978%        |
| 3         | 1.613       | 73            | 85          | 96           | rBV2     | 569432         | 725608        | 54.30%          | 5.362%        |
| 4         | 1.671       | 97            | 103         | 116          | rVB      | 42433          | 46820         | 3.50%           | 0.346%        |
| 5         | 1.745       | 119           | 126         | 133          | rBV      | 39373          | 43541         | 3.26%           | 0.322%        |
| 6         | 1.928       | 173           | 183         | 196          | rVB2     | 143191         | 201873        | 15.11%          | 1.492%        |
| 7         | 2.012       | 200           | 209         | 221          | rVB      | 154755         | 215097        | 16.10%          | 1.590%        |
| 8         | 2.173       | 251           | 259         | 265          | rBV2     | 34821          | 48174         | 3.60%           | 0.356%        |
| 9         | 2.221       | 265           | 274         | 292          | rVB      | 204682         | 312135        | 23.36%          | 2.307%        |
| 10        | 2.337       | 303           | 310         | 319          | rVB2     | 27299          | 39489         | 2.96%           | 0.292%        |
| 11        | 2.436       | 332           | 341         | 349          | rVB3     | 25733          | 42507         | 3.18%           | 0.314%        |
| 12        | 2.485       | 349           | 356         | 369          | rVB2     | 17909          | 29348         | 2.20%           | 0.217%        |
| 13        | 2.591       | 376           | 389         | 402          | rBV      | 211364         | 347356        | 25.99%          | 2.567%        |
| 14        | 2.784       | 437           | 449         | 470          | rBV2     | 24354          | 56635         | 4.24%           | 0.419%        |
| 15        | 2.883       | 470           | 480         | 492          | rVB3     | 11852          | 21303         | 1.59%           | 0.157%        |
| 16        | 3.009       | 498           | 519         | 525          | rBV4     | 13053          | 35655         | 2.67%           | 0.263%        |
| 17        | 3.073       | 526           | 539         | 545          | rVV5     | 28693          | 79554         | 5.95%           | 0.588%        |
| 18        | 3.112       | 545           | 551         | 560          | rVV      | 35019          | 66502         | 4.98%           | 0.491%        |
| 19        | 3.166       | 561           | 568         | 577          | rVV4     | 17736          | 38548         | 2.88%           | 0.285%        |
| 20        | 3.215       | 578           | 583         | 597          | rVB2     | 11091          | 21082         | 1.58%           | 0.156%        |
| 21        | 3.398       | 622           | 640         | 664          | rBV3     | 140818         | 330259        | 24.71%          | 2.441%        |
| 22        | 3.610       | 692           | 706         | 707          | rBV5     | 10814          | 13441         | 1.01%           | 0.099%        |
| 23        | 3.735       | 728           | 745         | 761          | rBV2     | 42894          | 98158         | 7.35%           | 0.725%        |
| 24        | 4.565       | 990           | 1003        | 1017         | rVB5     | 10554          | 23669         | 1.77%           | 0.175%        |
| 25        | 4.665       | 1017          | 1034        | 1073         | rBV3     | 210203         | 586680        | 43.90%          | 4.335%        |
| 26        | 5.108       | 1152          | 1172        | 1194         | rBV4     | 225041         | 715328        | 53.53%          | 5.286%        |
| 27        | 5.218       | 1197          | 1206        | 1220         | rVB7     | 8517           | 21463         | 1.61%           | 0.159%        |
| 28        | 5.404       | 1252          | 1264        | 1274         | rBV5     | 10515          | 22834         | 1.71%           | 0.169%        |
| 29        | 5.491       | 1281          | 1291        | 1308         | rVB8     | 9180           | 26240         | 1.96%           | 0.194%        |
| 30        | 5.623       | 1318          | 1332        | 1348         | rBV4     | 16097          | 36781         | 2.75%           | 0.272%        |
| 31        | 5.758       | 1353          | 1374        | 1401         | rVV2     | 428718         | 1126212       | 84.28%          | 8.322%        |
| 32        | 5.973       | 1426          | 1441        | 1458         | rBV      | 18853          | 45556         | 3.41%           | 0.337%        |
| 33        | 6.163       | 1486          | 1500        | 1511         | rBV5     | 16680          | 34228         | 2.56%           | 0.253%        |
| 34        | 6.279       | 1521          | 1536        | 1560         | rBV      | 402185         | 783238        | 58.61%          | 5.788%        |

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 BFSH1

Integration Parameters: rteint.p  
 Integrator: RTE  
 Smoothing : ON  
 Sampling : 1  
 Start Thrs: 0.1  
 Stop Thrs : 0  
 Filtering: 5  
 Min Area: 3 % of largest Peak  
 Max Peaks: 100  
 Peak Location: TOP

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

Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
 Title : TRACE VOA SOM01.0

|    |        |      |      |      |      |        |         |         |        |
|----|--------|------|------|------|------|--------|---------|---------|--------|
| 35 | 6.571  | 1606 | 1627 | 1645 | rVB  | 114098 | 227039  | 16.99%  | 1.678% |
| 36 | 6.719  | 1658 | 1673 | 1690 | rBV  | 272368 | 535056  | 40.04%  | 3.954% |
| 37 | 7.591  | 1929 | 1944 | 1956 | rBV  | 132002 | 228128  | 17.07%  | 1.686% |
| 38 | 7.922  | 2032 | 2047 | 2061 | rBV  | 519279 | 916158  | 68.56%  | 6.770% |
| 39 | 7.992  | 2061 | 2069 | 2086 | rVB  | 47232  | 87716   | 6.56%   | 0.648% |
| 40 | 8.201  | 2123 | 2134 | 2154 | rVB2 | 80865  | 140423  | 10.51%  | 1.038% |
| 41 | 8.574  | 2233 | 2250 | 2262 | rBV2 | 102975 | 177506  | 13.28%  | 1.312% |
| 42 | 8.655  | 2262 | 2275 | 2320 | rVB  | 694723 | 1336336 | 100.00% | 9.875% |
| 43 | 9.436  | 2505 | 2518 | 2538 | rBV  | 563696 | 975098  | 72.97%  | 7.206% |
| 44 | 9.587  | 2555 | 2565 | 2575 | rBV2 | 10799  | 18809   | 1.41%   | 0.139% |
| 45 | 9.706  | 2592 | 2602 | 2613 | rVB3 | 10999  | 19479   | 1.46%   | 0.144% |
| 46 | 10.121 | 2720 | 2731 | 2742 | rVB6 | 10986  | 19401   | 1.45%   | 0.143% |
| 47 | 10.771 | 2920 | 2933 | 2951 | rBV  | 195031 | 319136  | 23.88%  | 2.358% |
| 48 | 11.825 | 3248 | 3261 | 3276 | rBV  | 574183 | 922805  | 69.05%  | 6.819% |
| 49 | 12.105 | 3332 | 3348 | 3365 | rVB  | 6245   | 16295   | 1.22%   | 0.120% |
| 50 | 12.205 | 3366 | 3379 | 3393 | rBV  | 499755 | 804121  | 60.17%  | 5.942% |
| 51 | 15.831 | 4495 | 4507 | 4516 | rBV5 | 8235   | 15106   | 1.13%   | 0.112% |

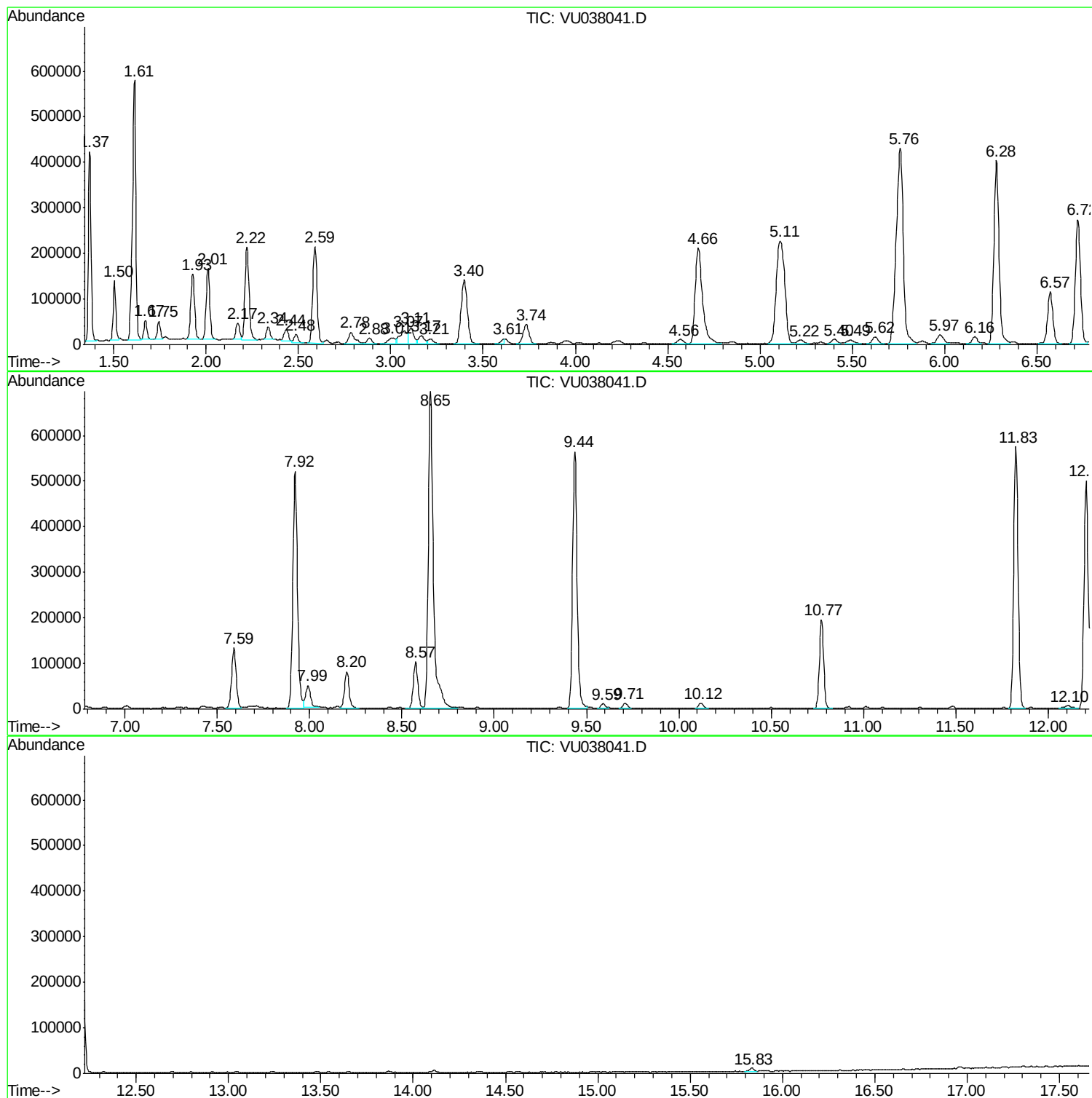
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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampled :  
BFSH1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0

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



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Sample : L2526-14  
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ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFSH1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0

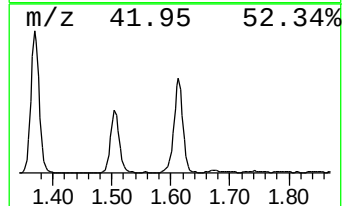
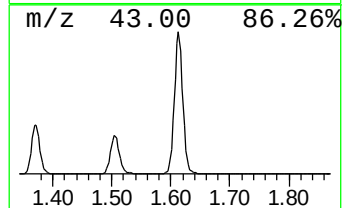
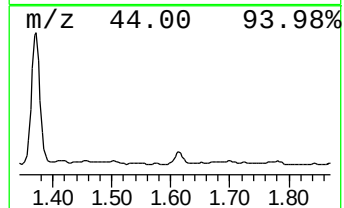
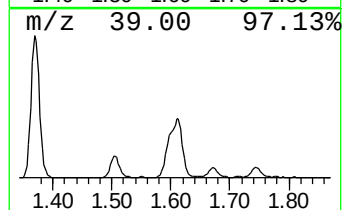
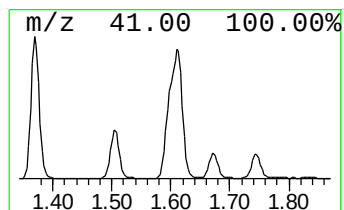
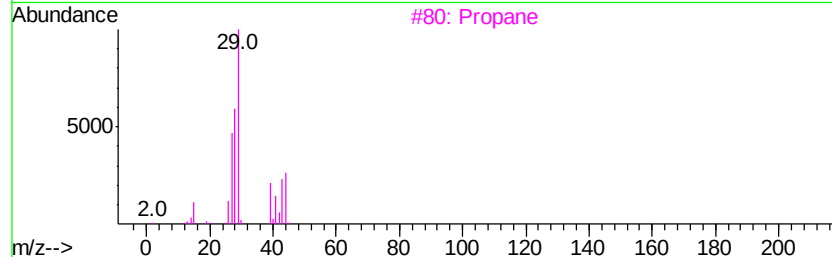
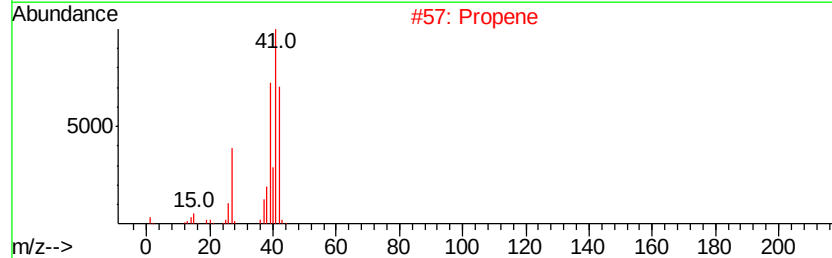
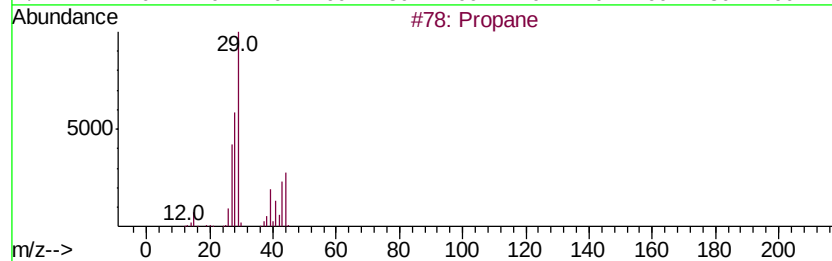
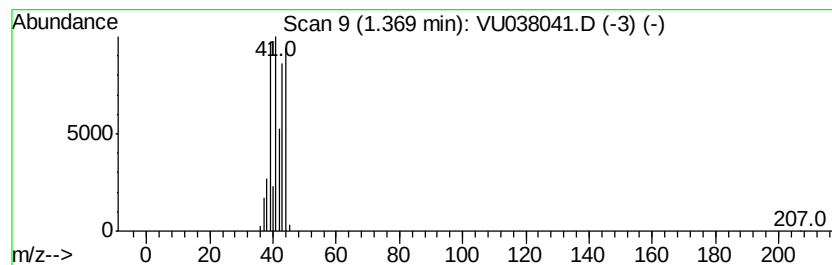
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 1.37 | 2.59 ug/L | 406039 | 1,4-Difluorobenzene | 6.28 |

| Hit# | of | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|----|--------------|----|---------|-------------|------|
| 1    | 5  | Propane      | 44 | C3H8    | 000074-98-6 | 9    |
| 2    |    | Propene      | 42 | C3H6    | 000115-07-1 | 7    |
| 3    |    | Propane      | 44 | C3H8    | 000074-98-6 | 4    |
| 4    |    | Propane      | 44 | C3H8    | 000074-98-6 | 4    |
| 5    |    | Cyclopropene | 40 | C3H4    | 002781-85-3 | 4    |



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MSVOA\_U  
ClientSampleId :  
BFSH1

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0

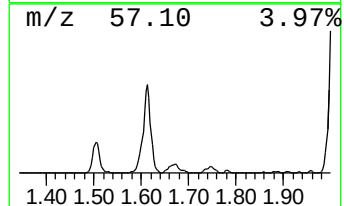
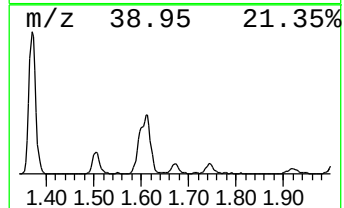
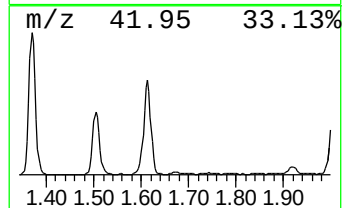
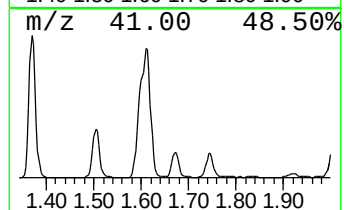
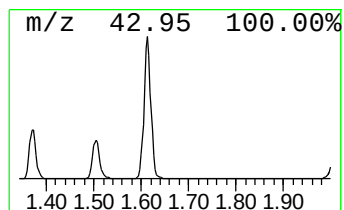
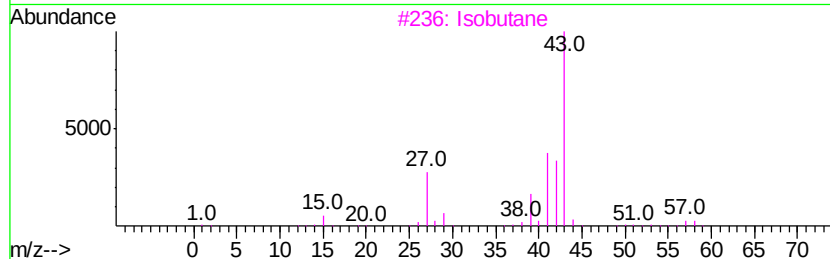
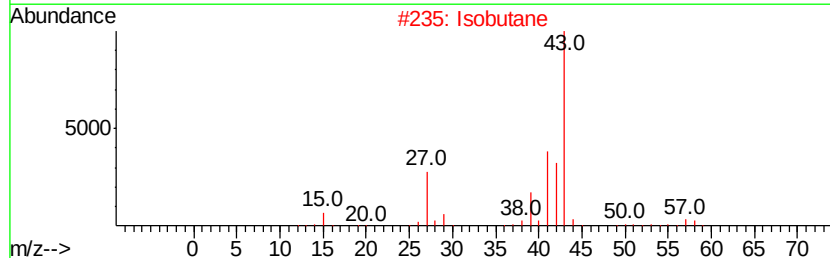
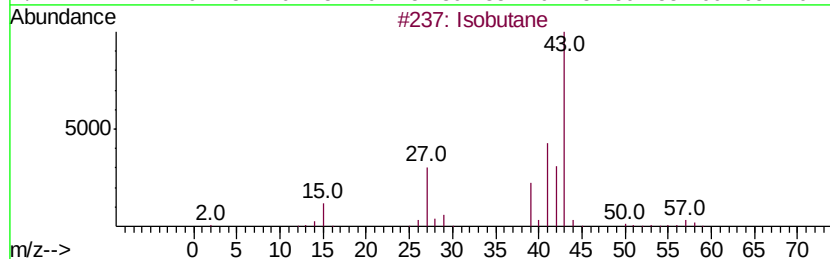
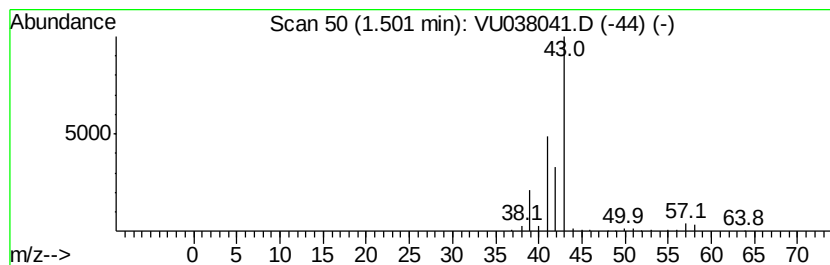
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 1.50 | 0.84 ug/L | 132348 | 1,4-Difluorobenzene | 6.28 |

| Hit# | of | Tentative ID                | MW | MolForm | CAS#        | Qual |
|------|----|-----------------------------|----|---------|-------------|------|
| 1    | 5  | Isobutane                   | 58 | C4H10   | 000075-28-5 | 64   |
| 2    |    | Isobutane                   | 58 | C4H10   | 000075-28-5 | 64   |
| 3    |    | Isobutane                   | 58 | C4H10   | 000075-28-5 | 64   |
| 4    |    | Isobutane                   | 58 | C4H10   | 000075-28-5 | 59   |
| 5    |    | Propane, 1-chloro-2-methyl- | 92 | C4H9Cl  | 000513-36-0 | 4    |



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MSVOA\_U  
ClientSampleId :  
BFSH1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0

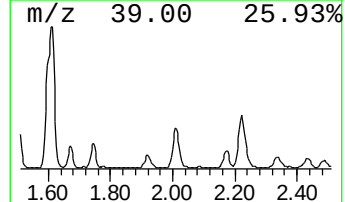
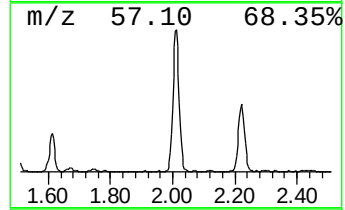
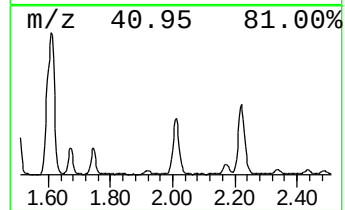
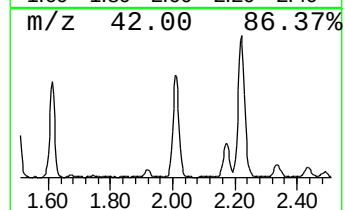
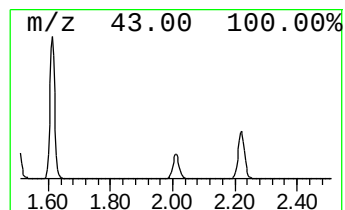
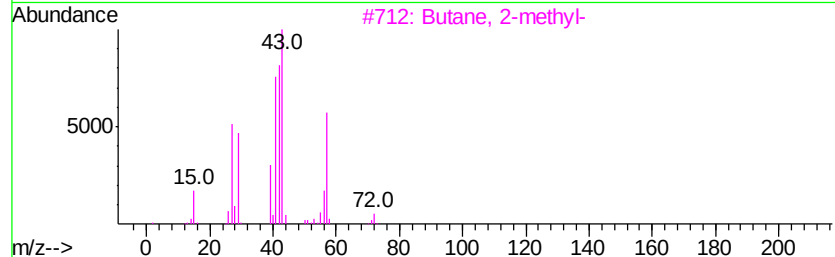
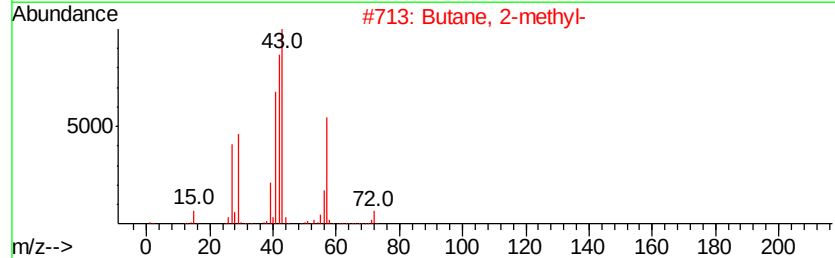
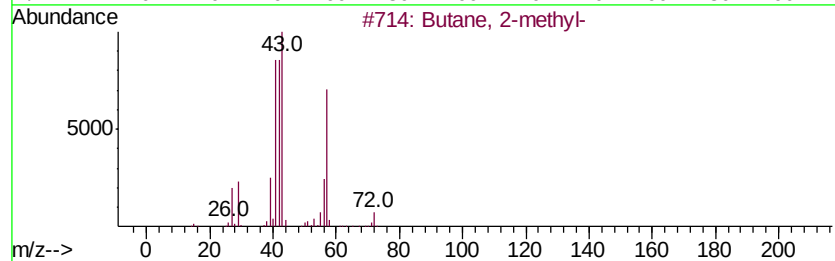
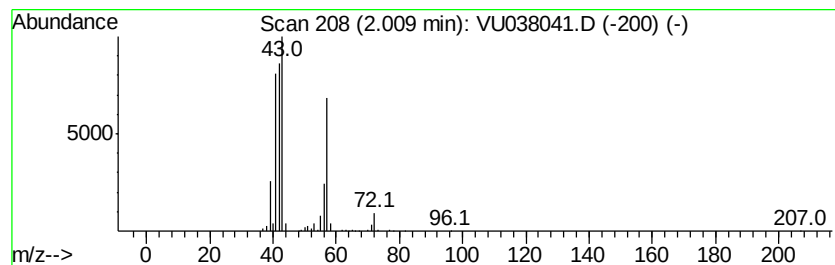
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 2.01 | 1.37 ug/L | 215097 | 1,4-Difluorobenzene | 6.28 |

| Hit# | of | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|-------------------|----|---------|-------------|------|
| 1    | 5  | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 94   |
| 2    |    | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 91   |
| 3    |    | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 86   |
| 4    |    | Pentane           | 72 | C5H12   | 000109-66-0 | 50   |
| 5    |    | 3-Buten-1-ol      | 72 | C4H8O   | 000627-27-0 | 47   |



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ALS Vial : 1 Sample Multiplier: 1

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ClientSampleId :  
BFSH1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0

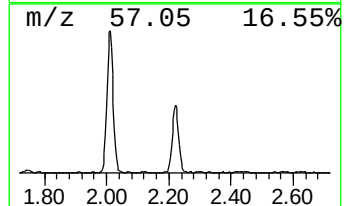
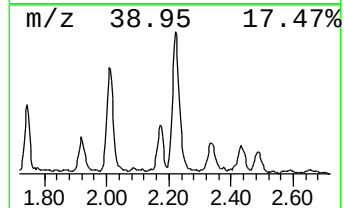
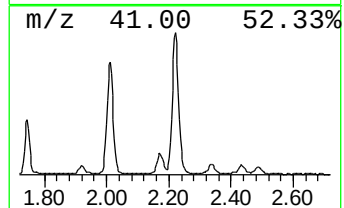
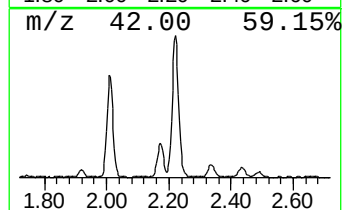
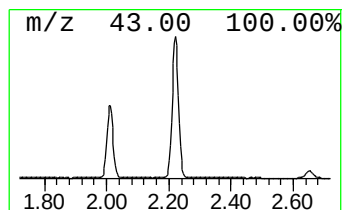
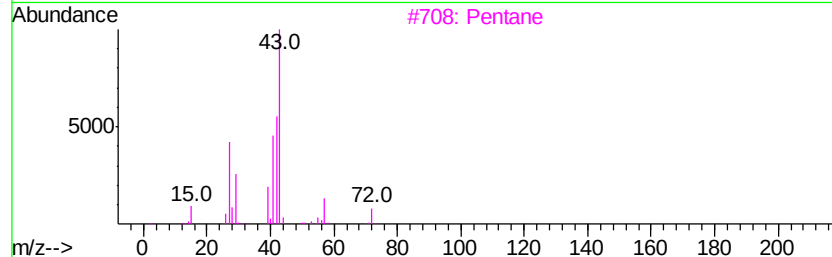
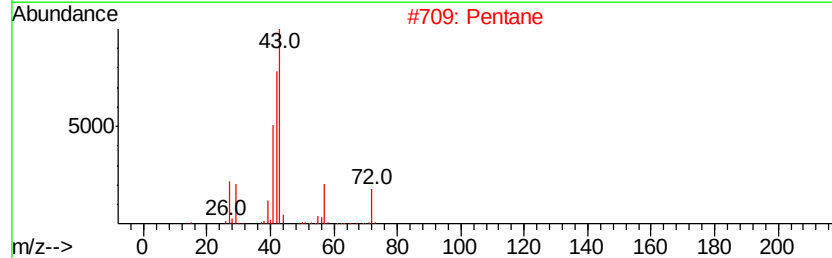
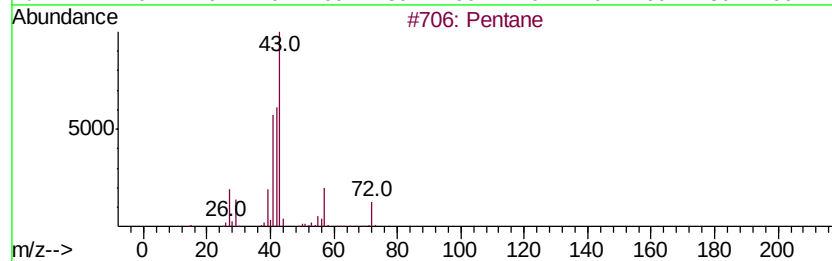
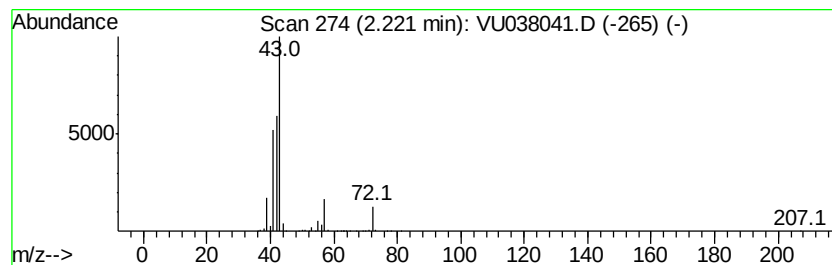
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 2

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 2.22 | 1.99 ug/L | 312135 | 1,4-Difluorobenzene | 6.28 |

| Hit# of | 5                 | Tentative ID | MW | MolForm | CAS#        | Qual |
|---------|-------------------|--------------|----|---------|-------------|------|
| 1       | Pentane           |              | 72 | C5H12   | 000109-66-0 | 91   |
| 2       | Pentane           |              | 72 | C5H12   | 000109-66-0 | 90   |
| 3       | Pentane           |              | 72 | C5H12   | 000109-66-0 | 90   |
| 4       | Pentane           |              | 72 | C5H12   | 000109-66-0 | 90   |
| 5       | Butane, 2-methyl- |              | 72 | C5H12   | 000078-78-4 | 53   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU050720\  
Data File : VU038041.D  
Acq On : 07 May 2020 16:11  
Operator : JC/MD  
Sample : L2526-14  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFSH1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0

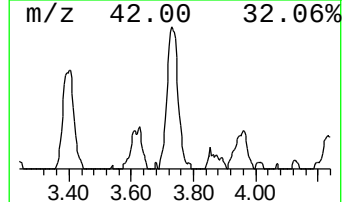
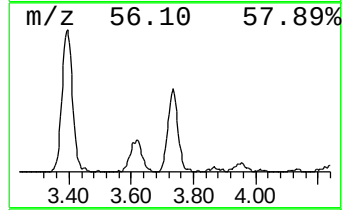
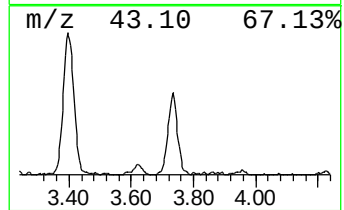
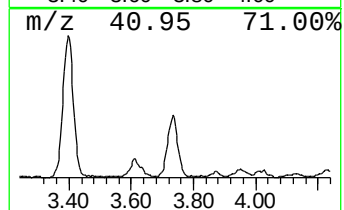
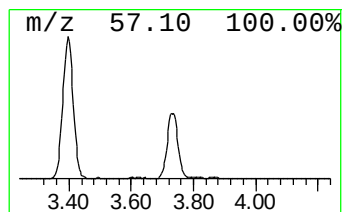
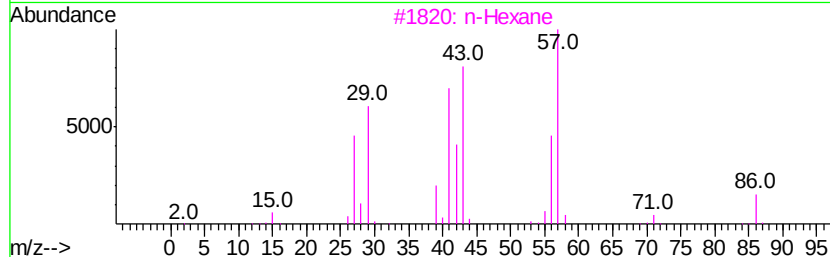
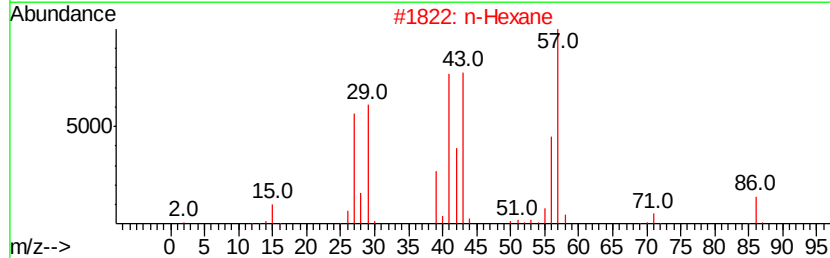
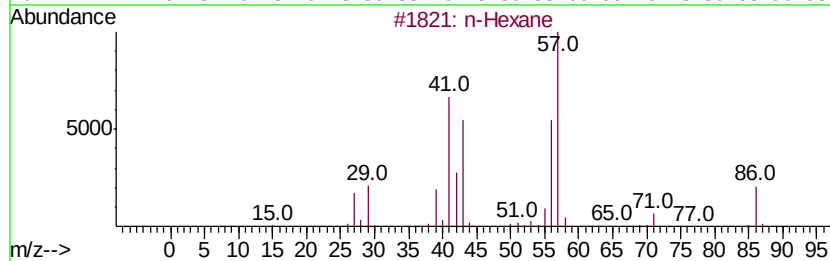
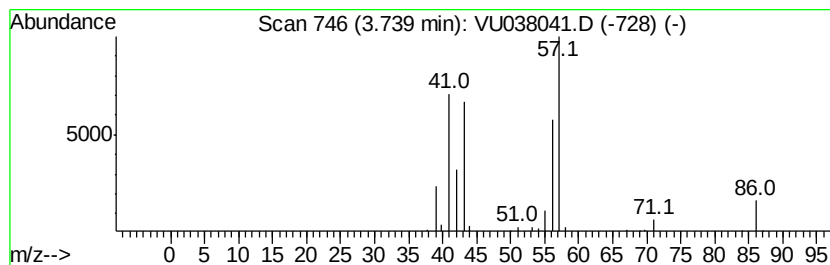
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

\*\*\*\*\*  
Peak Number 5 (DEL) Alkane: Straight-Chai... Concentration Rank 6

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 3.74 | 0.63 ug/L | 98158 | 1,4-Difluorobenzene | 6.28 |

| Hit# | of | Tentative ID                | MW | MolForm | CAS#        | Qual |
|------|----|-----------------------------|----|---------|-------------|------|
| 1    | 5  | n-Hexane                    | 86 | C6H14   | 000110-54-3 | 91   |
| 2    |    | n-Hexane                    | 86 | C6H14   | 000110-54-3 | 78   |
| 3    |    | n-Hexane                    | 86 | C6H14   | 000110-54-3 | 72   |
| 4    |    | Furan, tetrahydro-3-methyl- | 86 | C5H10O  | 013423-15-9 | 58   |
| 5    |    | Pentane, 3-methyl-          | 86 | C6H14   | 000096-14-0 | 53   |





Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_U\DATA\VU050720\  
Data File : VU038041.D  
Acq On : 07 May 2020 16:11  
Operator : JC/MD  
Sample : L2526-14  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
BFSH1

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR050720WMA.M  
Quant Title : TRACE VOA SOM01.0

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

|                      |      |         |       |          |   | --Internal Standard-- |        |      |  |
|----------------------|------|---------|-------|----------|---|-----------------------|--------|------|--|
| TIC Top Hit name     | RT   | EstConc | Units | Response | # | RT                    | Resp   | Conc |  |
| (DEL) Alkane: Str... | 1.37 | 2.6     | ug/L  | 406039   | 1 | 6.28                  | 783238 | 5.0  |  |
| (DEL) Alkane: Str... | 1.50 | 0.8     | ug/L  | 132348   | 1 | 6.28                  | 783238 | 5.0  |  |
| (DEL) Alkane: Str... | 2.01 | 1.4     | ug/L  | 215097   | 1 | 6.28                  | 783238 | 5.0  |  |
| (DEL) Alkane: Str... | 2.22 | 2.0     | ug/L  | 312135   | 1 | 6.28                  | 783238 | 5.0  |  |
| (DEL) Alkane: Str... | 3.74 | 0.6     | ug/L  | 98158    | 1 | 6.28                  | 783238 | 5.0  |  |