

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU021919\  
 Data File : VU029557.D  
 Acq On : 19 Feb 2019 16:04  
 Operator : JC/SP  
 Sample : K1488-20DL 5X  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 ESXF7DL

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\SOMUTR021219WMA.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         | 1.183       | 22            | 29          | 45           | rBB      | 469544         | 436092        | 53.31%          | 5.634%        |
| 2         | 1.283       | 54            | 60          | 62           | rBV      | 73795          | 62502         | 7.64%           | 0.807%        |
| 3         | 1.299       | 62            | 65          | 78           | rVB      | 121999         | 117453        | 14.36%          | 1.517%        |
| 4         | 1.399       | 88            | 96          | 107          | rBV2     | 209425         | 223895        | 27.37%          | 2.893%        |
| 5         | 1.678       | 176           | 183         | 198          | rVB      | 76710          | 97829         | 11.96%          | 1.264%        |
| 6         | 1.756       | 199           | 207         | 216          | rVB      | 34402          | 46577         | 5.69%           | 0.602%        |
| 7         | 1.942       | 262           | 265         | 275          | rVB4     | 8079           | 10135         | 1.24%           | 0.131%        |
| 8         | 2.270       | 357           | 367         | 383          | rBV      | 166852         | 254581        | 31.12%          | 3.289%        |
| 9         | 2.450       | 416           | 423         | 438          | rVB2     | 10099          | 18221         | 2.23%           | 0.235%        |
| 10        | 2.695       | 492           | 499         | 510          | rBV5     | 6355           | 12280         | 1.50%           | 0.159%        |
| 11        | 2.981       | 579           | 588         | 599          | rVB2     | 28237          | 50245         | 6.14%           | 0.649%        |
| 12        | 4.080       | 916           | 930         | 945          | rVB7     | 3594           | 9090          | 1.11%           | 0.117%        |
| 13        | 4.219       | 949           | 973         | 996          | rBV3     | 256921         | 818033        | 100.00%         | 10.568%       |
| 14        | 4.646       | 1089          | 1106        | 1129         | rBV      | 103605         | 255264        | 31.20%          | 3.298%        |
| 15        | 4.990       | 1199          | 1213        | 1226         | rVB6     | 7301           | 17158         | 2.10%           | 0.222%        |
| 16        | 5.334       | 1298          | 1320        | 1346         | rBV2     | 217368         | 600913        | 73.46%          | 7.763%        |
| 17        | 5.884       | 1478          | 1491        | 1515         | rBV      | 231837         | 461761        | 56.45%          | 5.966%        |
| 18        | 6.183       | 1572          | 1584        | 1600         | rBV2     | 70333          | 133332        | 16.30%          | 1.723%        |
| 19        | 6.328       | 1616          | 1629        | 1645         | rBV2     | 142808         | 285472        | 34.90%          | 3.688%        |
| 20        | 7.225       | 1896          | 1908        | 1935         | rBV      | 75054          | 137083        | 16.76%          | 1.771%        |
| 21        | 7.563       | 1998          | 2013        | 2030         | rBV      | 303225         | 534272        | 65.31%          | 6.902%        |
| 22        | 7.849       | 2090          | 2102        | 2121         | rBV2     | 46090          | 81173         | 9.92%           | 1.049%        |
| 23        | 8.177       | 2194          | 2204        | 2207         | rBV3     | 5671           | 8554          | 1.05%           | 0.111%        |
| 24        | 8.222       | 2207          | 2218        | 2235         | rVV      | 189249         | 323278        | 39.52%          | 4.176%        |
| 25        | 8.312       | 2235          | 2246        | 2280         | rVV      | 418966         | 733936        | 89.72%          | 9.482%        |
| 26        | 9.087       | 2474          | 2487        | 2512         | rBV      | 347158         | 579141        | 70.80%          | 7.482%        |
| 27        | 10.431      | 2888          | 2905        | 2921         | rBV      | 127469         | 205718        | 25.15%          | 2.658%        |
| 28        | 10.604      | 2948          | 2959        | 2978         | rBV      | 14459          | 24263         | 2.97%           | 0.313%        |
| 29        | 11.482      | 3220          | 3232        | 3260         | rBV      | 369275         | 614419        | 75.11%          | 7.938%        |
| 30        | 11.858      | 3335          | 3349        | 3369         | rBV      | 322248         | 545129        | 66.64%          | 7.043%        |
| 31        | 12.479      | 3532          | 3542        | 3550         | rBV      | 7122           | 11389         | 1.39%           | 0.147%        |
| 32        | 14.276      | 4089          | 4101        | 4111         | rBV      | 12958          | 20753         | 2.54%           | 0.268%        |
| 33        | 15.877      | 4591          | 4599        | 4608         | rBV3     | 6444           | 10558         | 1.29%           | 0.136%        |

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ClientSampleId :  
ESXF7DL

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\_U\METHOD\SOMUTR021219WMA.M  
Title : TRACE VOA SOM01.0

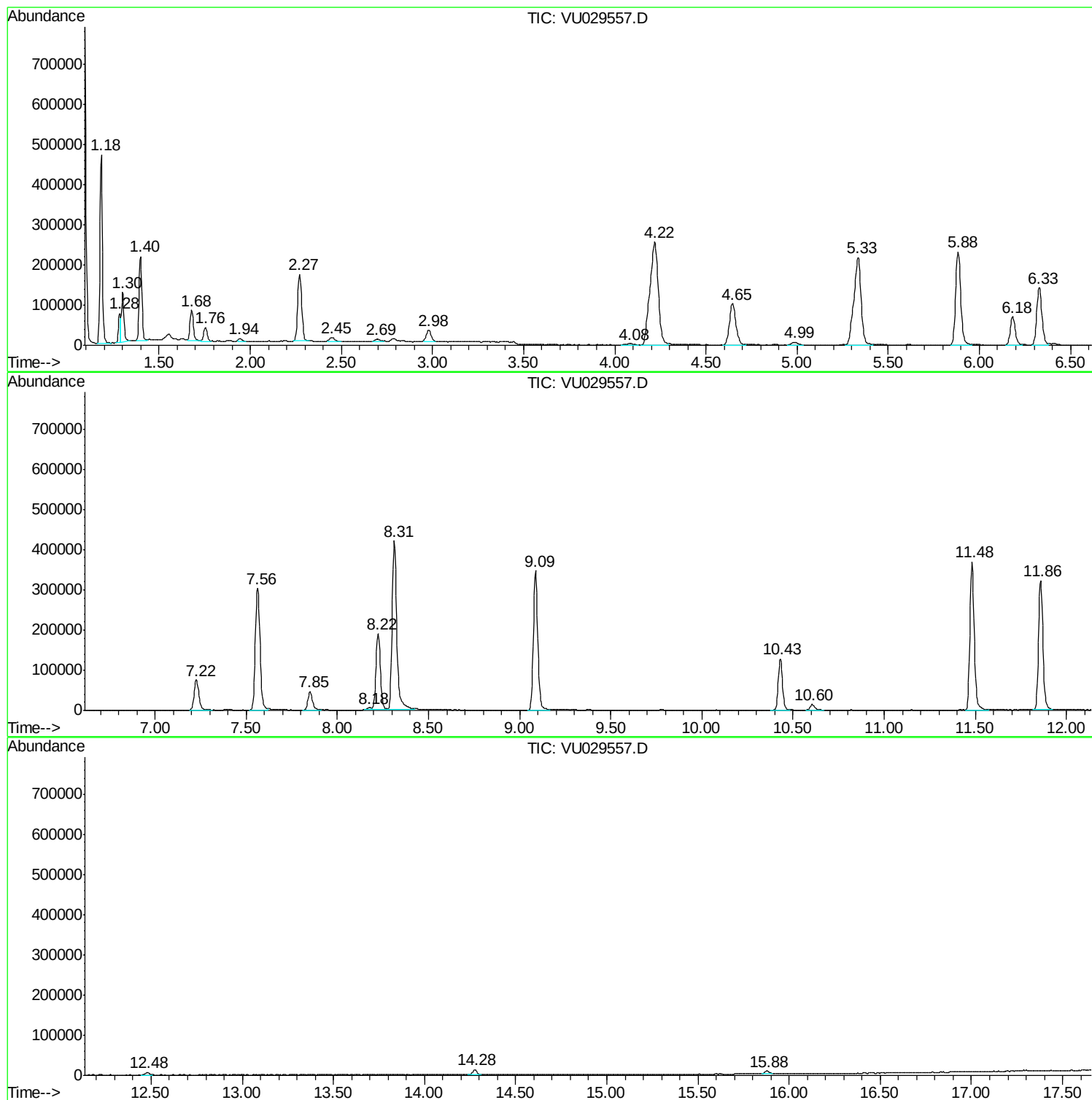
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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021219WMA.M  
Quant Title : TRACE VOA SOM01.0

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



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Sample : K1488-20DL 5X  
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Instrument :  
MSVOA\_U  
ClientSampleId :  
ESXF7DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021219WMA.M  
Quant Title : TRACE VOA SOM01.0

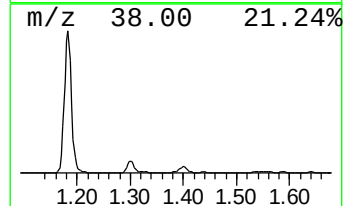
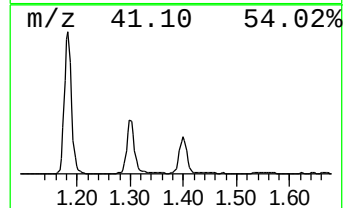
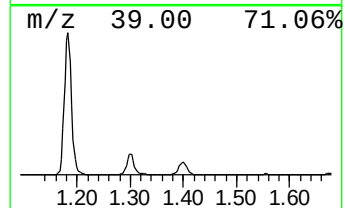
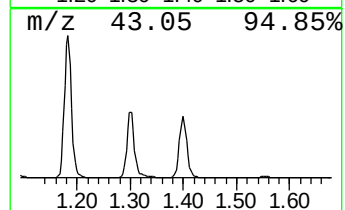
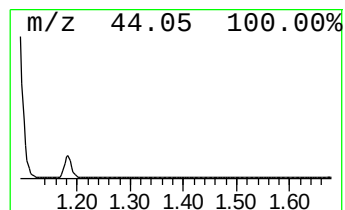
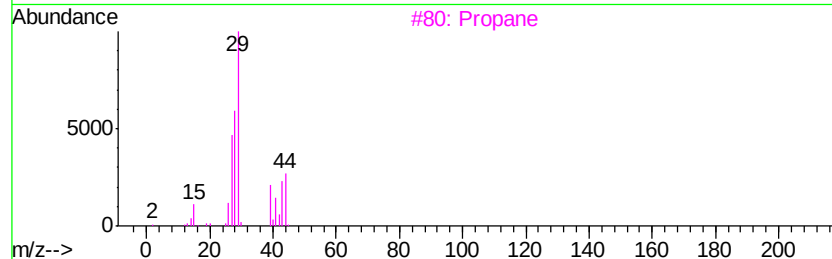
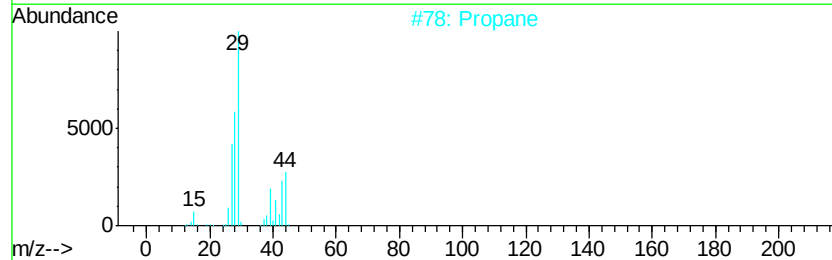
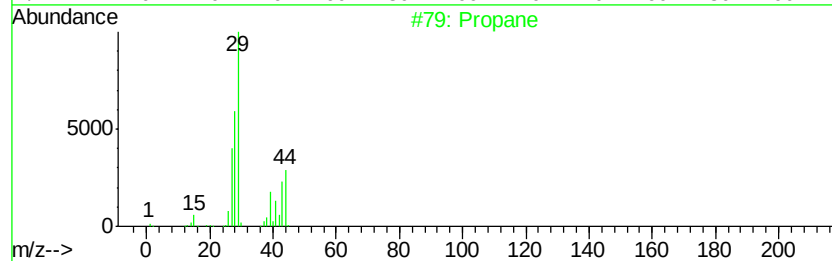
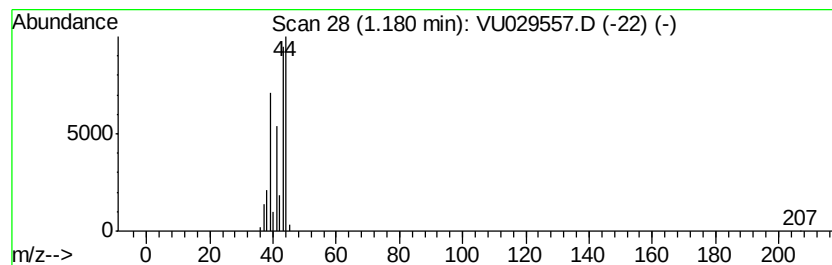
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 1.18 | 4.72 ug/L | 436092 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|----|--------------|----|---------|-------------|------|
| 1    | 5  | Propane      | 44 | C3H8    | 000074-98-6 | 83   |
| 2    |    | Propane      | 44 | C3H8    | 000074-98-6 | 83   |
| 3    |    | Propane      | 44 | C3H8    | 000074-98-6 | 9    |
| 4    |    | Propene      | 42 | C3H6    | 000115-07-1 | 9    |
| 5    |    | Acetaldehyde | 44 | C2H4O   | 000075-07-0 | 5    |



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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
ESXF7DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021219WMA.M  
Quant Title : TRACE VOA SOM01.0

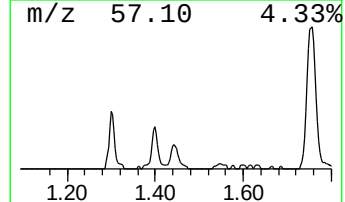
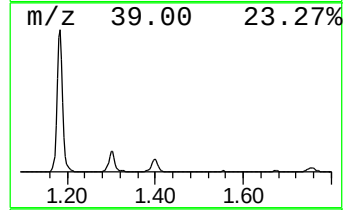
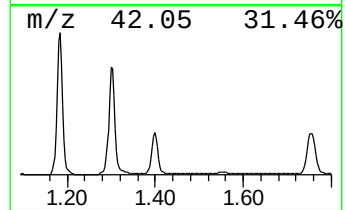
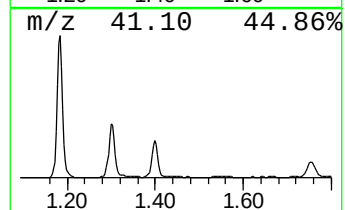
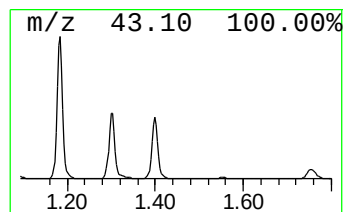
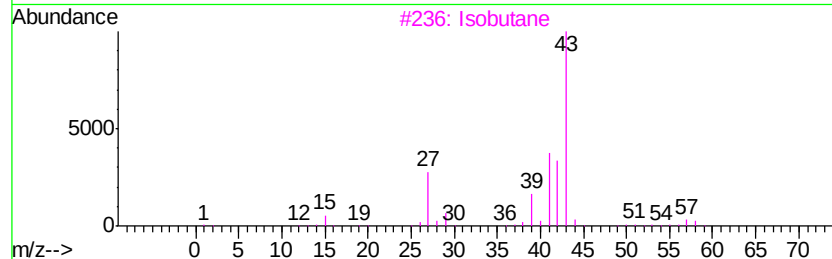
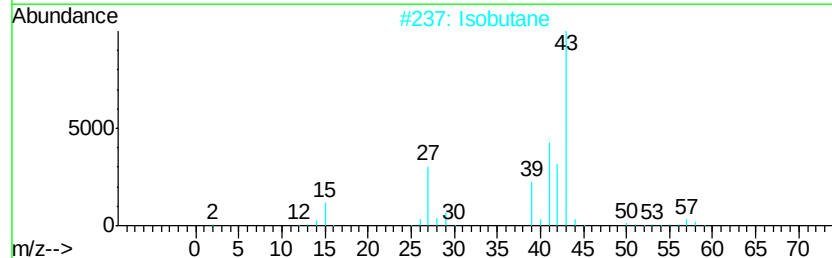
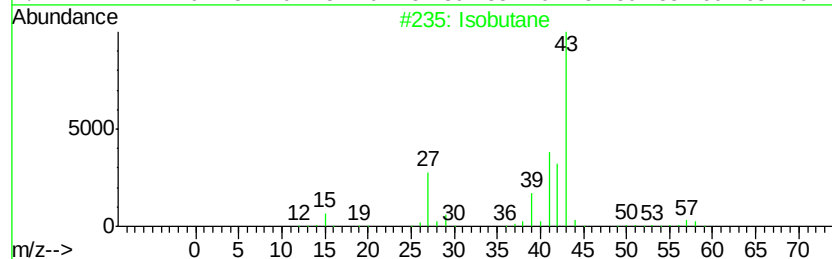
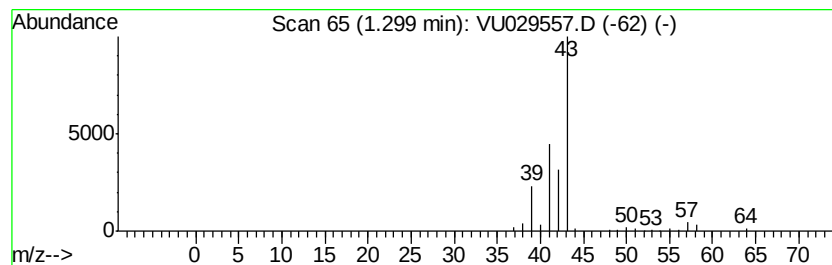
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 1.30 | 1.27 ug/L | 117453 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | 5 | Tentative ID                | MW | MolForm | CAS#        | Qual |
|------|----|---|-----------------------------|----|---------|-------------|------|
| 1    |    |   | Isobutane                   | 58 | C4H10   | 000075-28-5 | 64   |
| 2    |    |   | Isobutane                   | 58 | C4H10   | 000075-28-5 | 50   |
| 3    |    |   | Isobutane                   | 58 | C4H10   | 000075-28-5 | 50   |
| 4    |    |   | Isobutane                   | 58 | C4H10   | 000075-28-5 | 42   |
| 5    |    |   | Propane, 1-chloro-2-methyl- | 92 | C4H9Cl  | 000513-36-0 | 9    |



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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
ESXF7DL

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021219WMA.M  
Quant Title : TRACE VOA SOM01.0

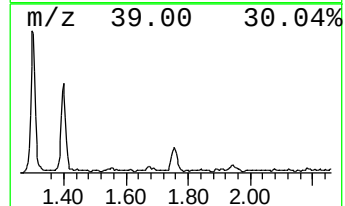
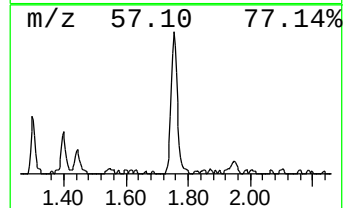
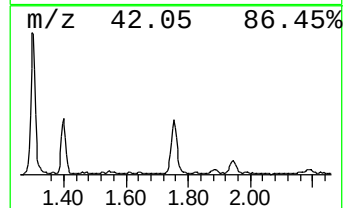
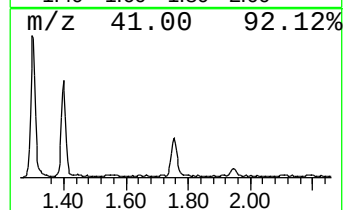
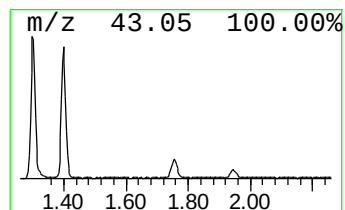
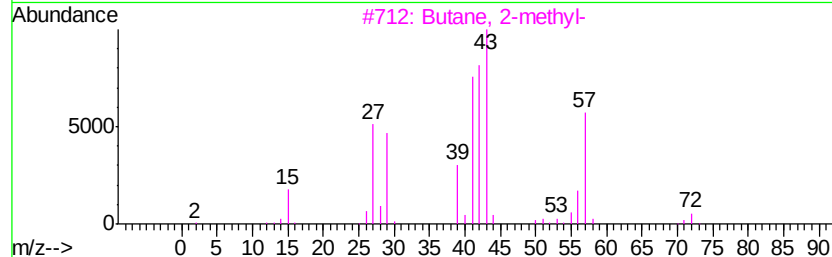
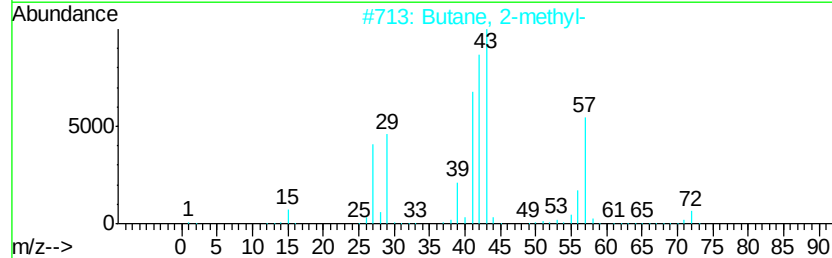
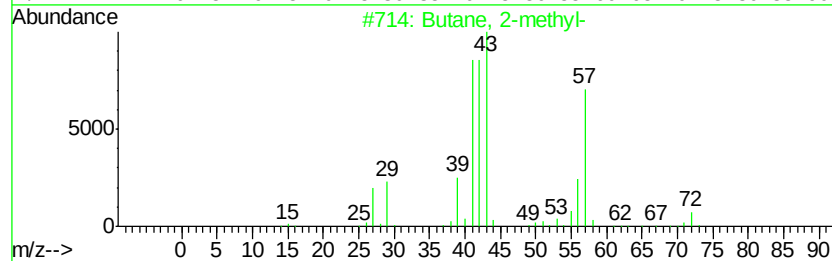
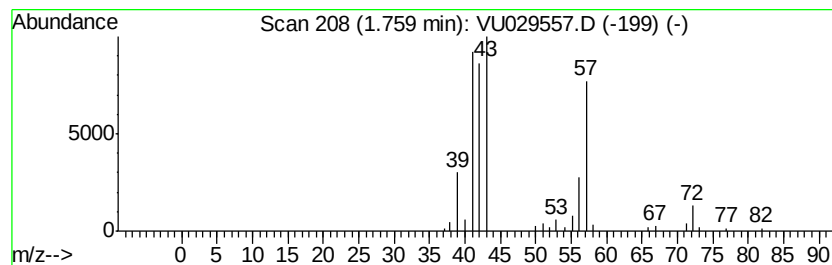
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 1.76 | 0.50 ug/L | 46577 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID      | MW | MolForm | CAS#        | Qual |
|------|----|-------------------|----|---------|-------------|------|
| 1    | 5  | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 91   |
| 2    |    | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 86   |
| 3    |    | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 83   |
| 4    |    | Pentane           | 72 | C5H12   | 000109-66-0 | 53   |
| 5    |    | Pentane           | 72 | C5H12   | 000109-66-0 | 33   |



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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
ESXF7DL

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR021219WMA.M  
Quant Title : TRACE VOA SOM01.0

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

| TIC Top Hit name     | RT   | EstConc | Units | Response | --Internal Standard-- |      |        |      |
|----------------------|------|---------|-------|----------|-----------------------|------|--------|------|
|                      |      |         |       |          | #                     | RT   | Resp   | Conc |
| (DEL) Alkane: Str... | 1.18 | 4.7     | ug/L  | 436092   | 1                     | 5.88 | 461761 | 5.0  |
| (DEL) Alkane: Str... | 1.30 | 1.3     | ug/L  | 117453   | 1                     | 5.88 | 461761 | 5.0  |
| (DEL) Alkane: Str... | 1.76 | 0.5     | ug/L  | 46577    | 1                     | 5.88 | 461761 | 5.0  |