

Data Path : Z:\VOASRV\HPCHEM1\MSVOA V\DATA\VV042520\  
 Data File : VV015704.D  
 Acq On : 25 Apr 2020 19:24  
 Operator : SY/MD  
 Sample : L2413-11  
 Misc : 25.0mL/MSVOA V/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_V  
 ClientSampleId :  
 ETKL9

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\_V\METHOD\SOMVTR042220WMA.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         | 1.113       | 3             | 7           | 31           | rVB      | 2172613        | 1998400       | 100.00%         | 27.988%       |
| 2         | 1.222       | 34            | 41          | 60           | rVB      | 582002         | 517331        | 25.89%          | 7.245%        |
| 3         | 1.316       | 61            | 70          | 76           | rBV2     | 398429         | 427754        | 21.40%          | 5.991%        |
| 4         | 1.576       | 146           | 151         | 160          | rVB      | 45855          | 48060         | 2.40%           | 0.673%        |
| 5         | 1.643       | 165           | 172         | 194          | rVB      | 120263         | 161741        | 8.09%           | 2.265%        |
| 6         | 1.817       | 220           | 226         | 242          | rVB2     | 23111          | 34934         | 1.75%           | 0.489%        |
| 7         | 2.119       | 312           | 320         | 334          | rVB      | 85593          | 132074        | 6.61%           | 1.850%        |
| 8         | 2.357       | 371           | 394         | 396          | rBV2     | 11033          | 29128         | 1.46%           | 0.408%        |
| 9         | 2.592       | 457           | 467         | 481          | rVB      | 26289          | 46473         | 2.33%           | 0.651%        |
| 10        | 2.778       | 512           | 525         | 538          | rBV2     | 25662          | 45996         | 2.30%           | 0.644%        |
| 11        | 3.788       | 823           | 839         | 856          | rBV2     | 15115          | 37425         | 1.87%           | 0.524%        |
| 12        | 3.936       | 866           | 885         | 912          | rBV3     | 147634         | 460329        | 23.03%          | 6.447%        |
| 13        | 4.376       | 1004          | 1022        | 1046         | rBV2     | 69954          | 175004        | 8.76%           | 2.451%        |
| 14        | 4.704       | 1106          | 1124        | 1141         | rBV3     | 21289          | 54727         | 2.74%           | 0.766%        |
| 15        | 5.071       | 1221          | 1238        | 1267         | rBV2     | 155887         | 395872        | 19.81%          | 5.544%        |
| 16        | 5.640       | 1401          | 1415        | 1436         | rBV      | 151882         | 306947        | 15.36%          | 4.299%        |
| 17        | 5.942       | 1497          | 1509        | 1526         | rBV5     | 18480          | 38305         | 1.92%           | 0.536%        |
| 18        | 6.093       | 1542          | 1556        | 1569         | rBV      | 96889          | 199988        | 10.01%          | 2.801%        |
| 19        | 7.010       | 1828          | 1841        | 1860         | rBV2     | 33250          | 61747         | 3.09%           | 0.865%        |
| 20        | 7.338       | 1931          | 1943        | 1963         | rBV      | 182394         | 320739        | 16.05%          | 4.492%        |
| 21        | 7.646       | 2030          | 2039        | 2056         | rBV      | 19883          | 35438         | 1.77%           | 0.496%        |
| 22        | 8.113       | 2172          | 2184        | 2220         | rBV      | 235148         | 451498        | 22.59%          | 6.323%        |
| 23        | 8.875       | 2408          | 2421        | 2442         | rBV      | 233143         | 381396        | 19.09%          | 5.341%        |
| 24        | 10.238      | 2834          | 2845        | 2861         | rBV      | 69828          | 109256        | 5.47%           | 1.530%        |
| 25        | 11.270      | 3155          | 3166        | 3185         | rBV      | 230189         | 360022        | 18.02%          | 5.042%        |
| 26        | 11.646      | 3270          | 3283        | 3304         | rBV      | 197383         | 309737        | 15.50%          | 4.338%        |

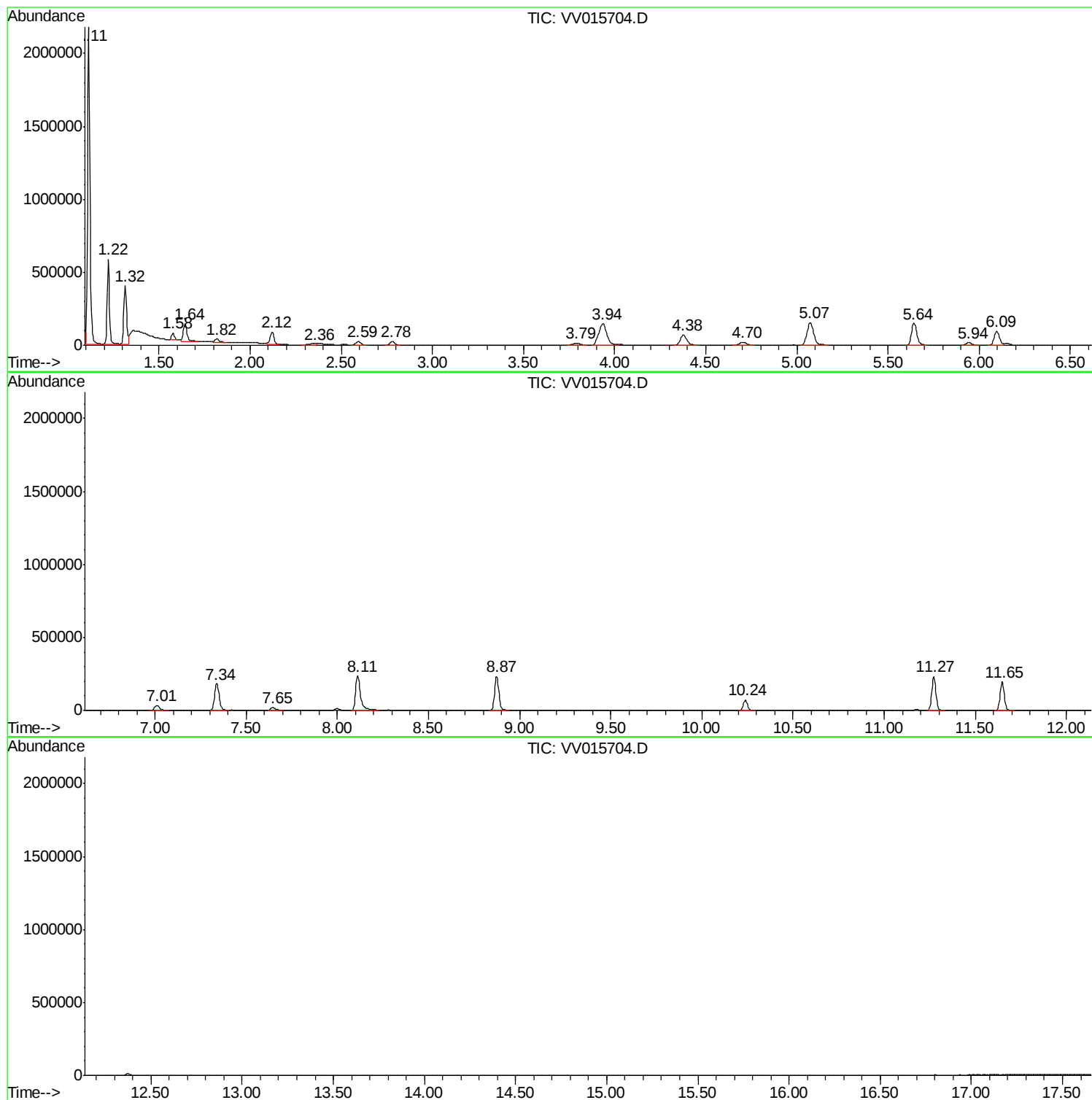
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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
ETKL9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
Quant Title : TRACE VOA SOM01.0

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



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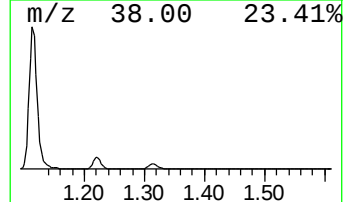
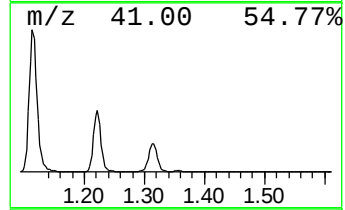
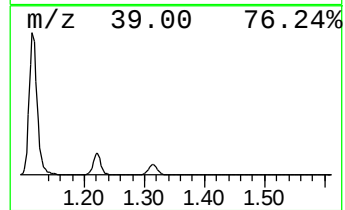
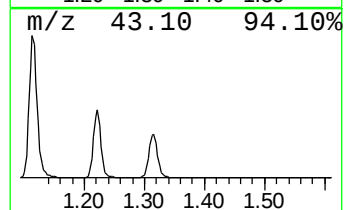
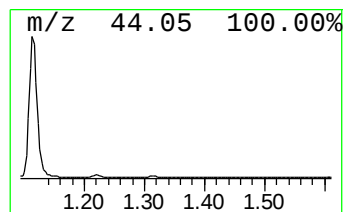
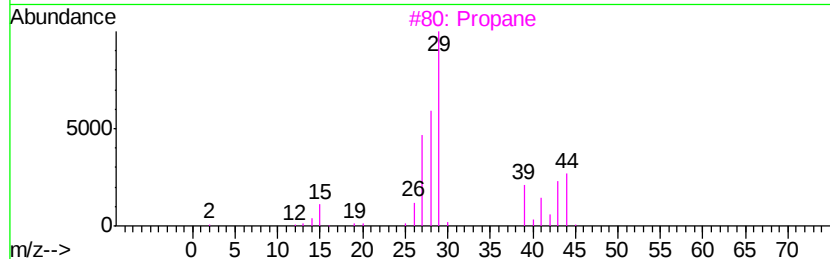
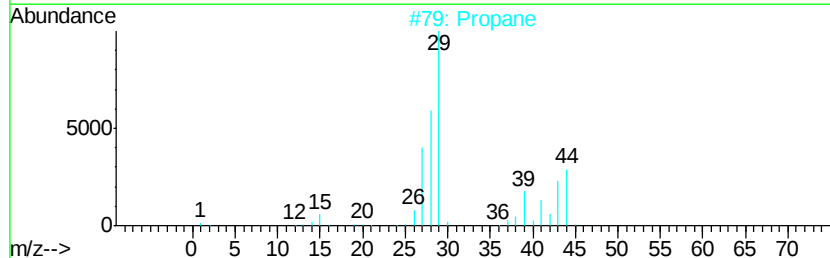
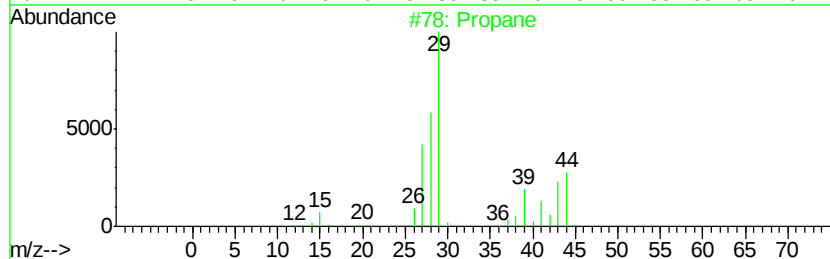
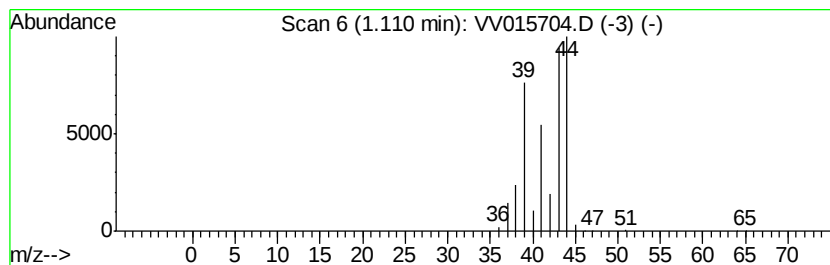
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc    | Area    | Relative to ISTD    | R.T. |
|------|------------|---------|---------------------|------|
| 1.11 | 32.55 ug/L | 1998400 | 1,4-Difluorobenzene | 5.64 |

| Hit# | of | Tentative ID | MW | MolForm | CAS#        | Qual |
|------|----|--------------|----|---------|-------------|------|
| 1    | 5  | Propane      | 44 | C3H8    | 000074-98-6 | 83   |
| 2    |    | Propane      | 44 | C3H8    | 000074-98-6 | 56   |
| 3    |    | Propane      | 44 | C3H8    | 000074-98-6 | 9    |
| 4    |    | Propene      | 42 | C3H6    | 000115-07-1 | 9    |
| 5    |    | Cyclopropene | 40 | C3H4    | 002781-85-3 | 2    |



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Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
ETKL9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
Quant Title : TRACE VOA SOM01.0

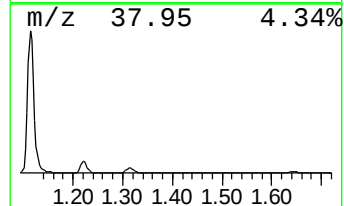
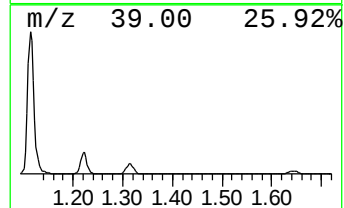
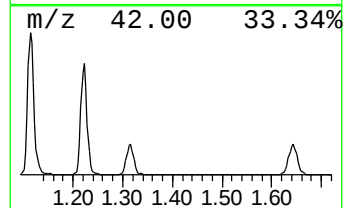
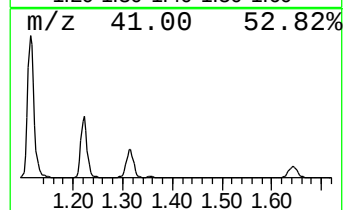
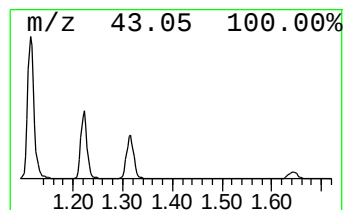
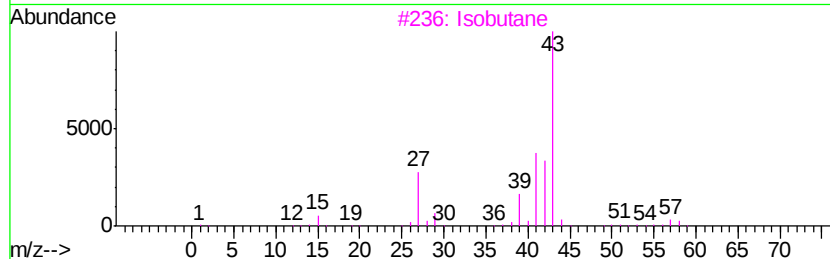
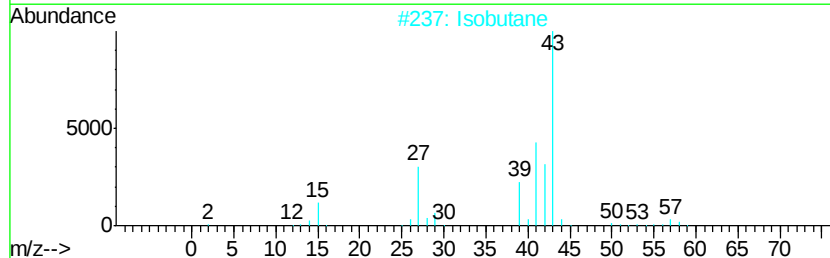
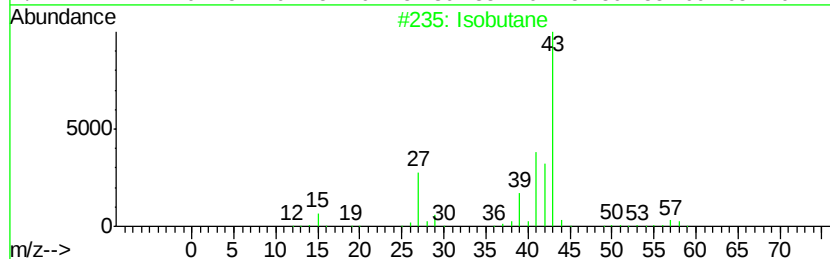
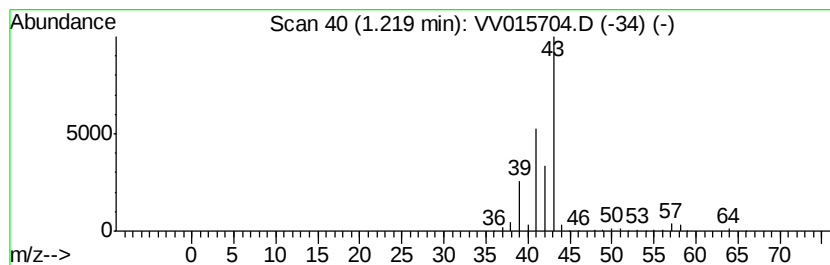
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 1.22 | 8.43 ug/L | 517331 | 1,4-Difluorobenzene | 5.64 |

| 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 | 59   |
| 4    |    | Isobutane          | 58 | C4H10   | 000075-28-5 | 53   |
| 5    |    | Borane, trimethyl- | 56 | C3H9B   | 000593-90-8 | 5    |



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Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
ETKL9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
Quant Title : TRACE VOA SOM01.0

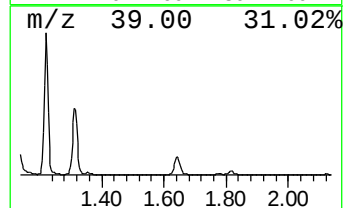
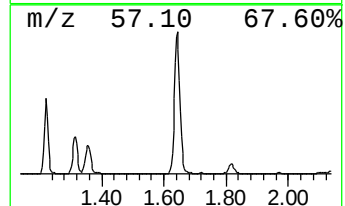
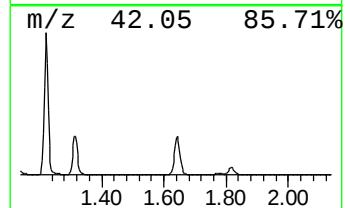
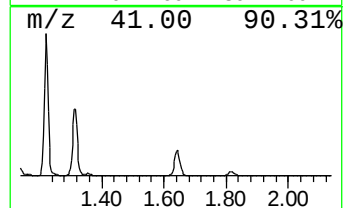
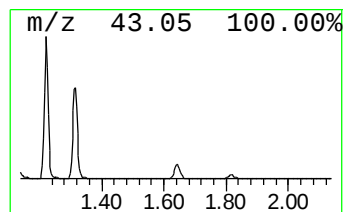
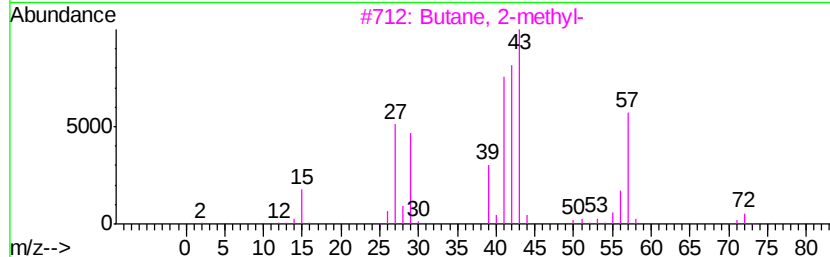
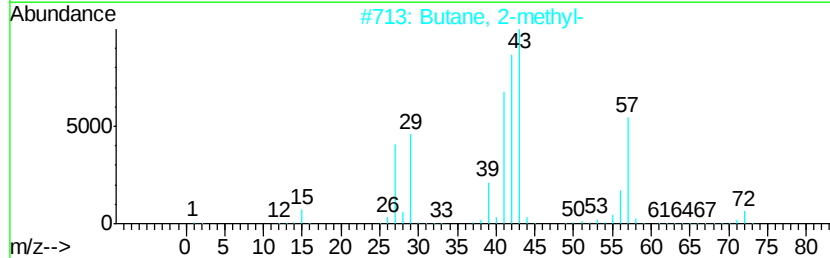
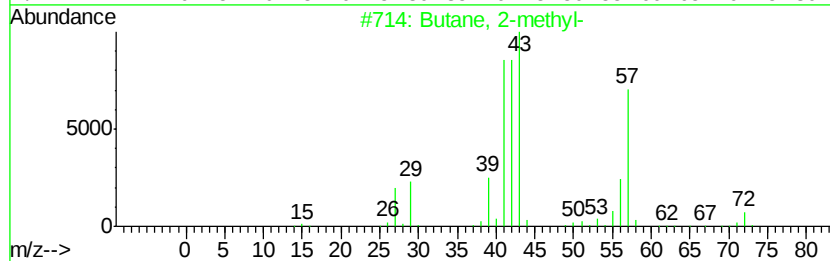
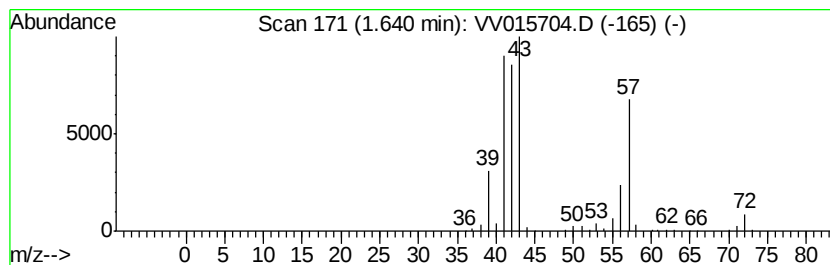
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 1.64 | 2.63 ug/L | 161741 | 1,4-Difluorobenzene | 5.64 |

| 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 | 91   |
| 3    |    | Butane, 2-methyl- | 72 | C5H12   | 000078-78-4 | 86   |
| 4    |    | 3-Buten-1-ol      | 72 | C4H8O   | 000627-27-0 | 47   |
| 5    |    | Pentane           | 72 | C5H12   | 000109-66-0 | 36   |



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Instrument :  
MSVOA\_V  
ClientSampleId :  
ETKL9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
Quant Title : TRACE VOA SOM01.0

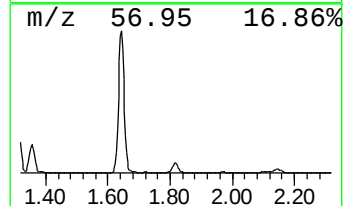
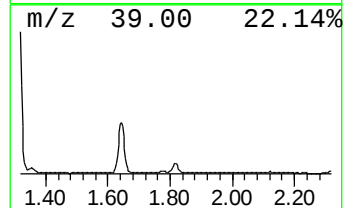
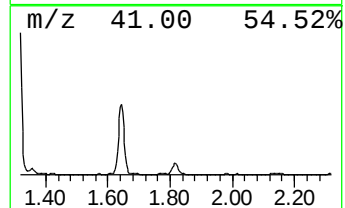
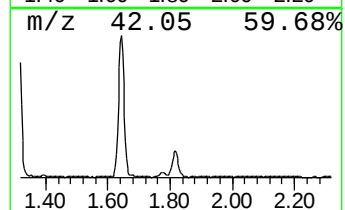
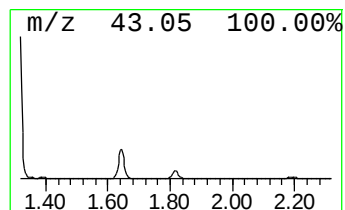
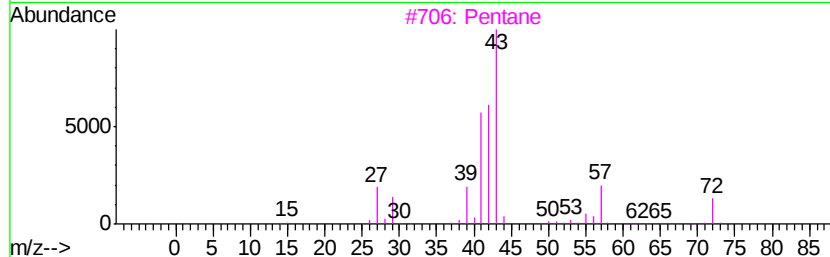
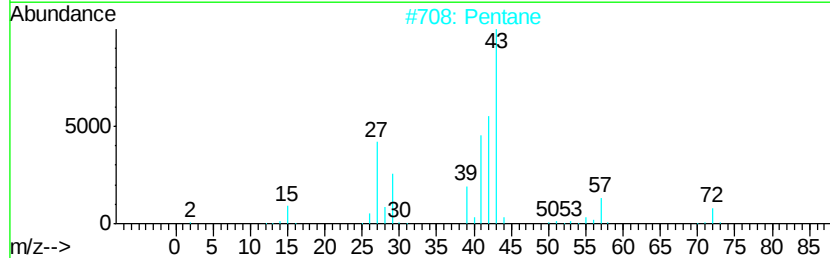
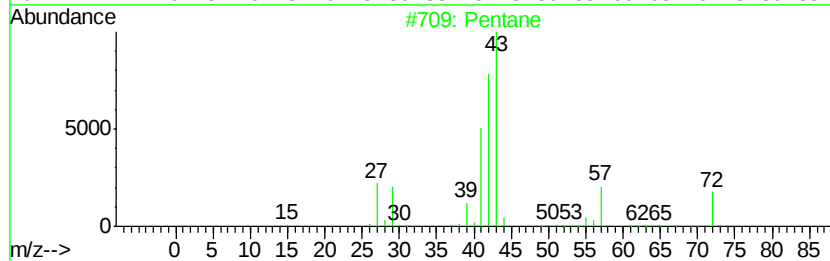
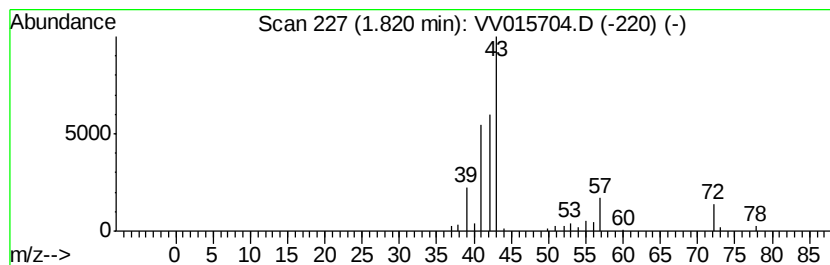
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 4 (DEL) Alkane: Straight-Chai... Concentration Rank 7

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 1.82 | 0.57 ug/L | 34934 | 1,4-Difluorobenzene | 5.64 |

| Hit# of | 5               | Tentative ID | MW | MolForm | CAS#        | Qual |
|---------|-----------------|--------------|----|---------|-------------|------|
| 1       | Pentane         |              | 72 | C5H12   | 000109-66-0 | 86   |
| 2       | Pentane         |              | 72 | C5H12   | 000109-66-0 | 86   |
| 3       | Pentane         |              | 72 | C5H12   | 000109-66-0 | 86   |
| 4       | Pentane         |              | 72 | C5H12   | 000109-66-0 | 86   |
| 5       | Oxirane, ethyl- |              | 72 | C4H8O   | 000106-88-7 | 50   |



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ClientSampleId :  
ETKL9

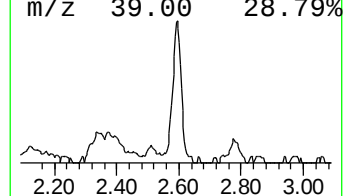
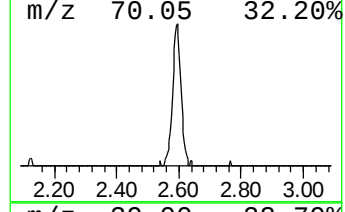
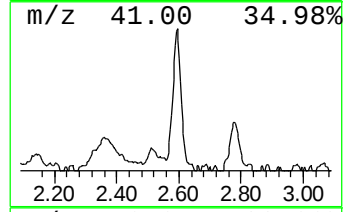
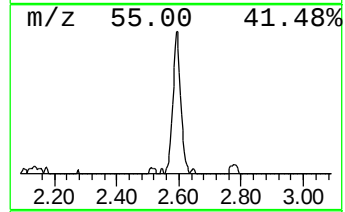
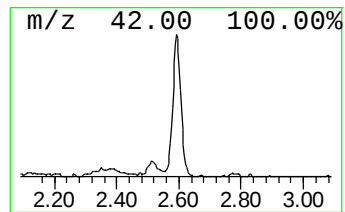
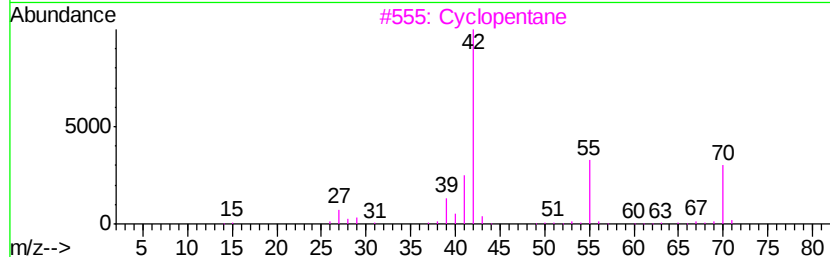
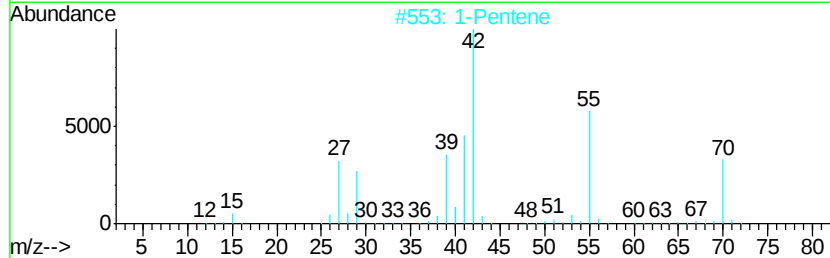
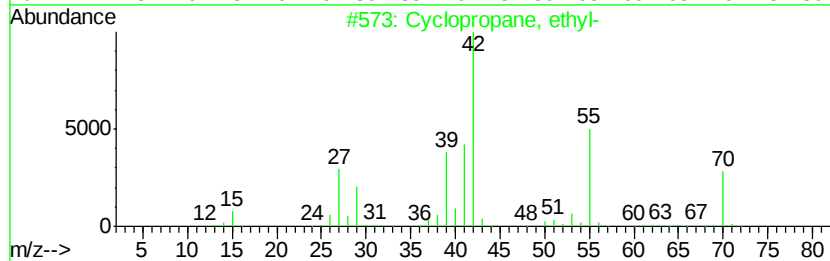
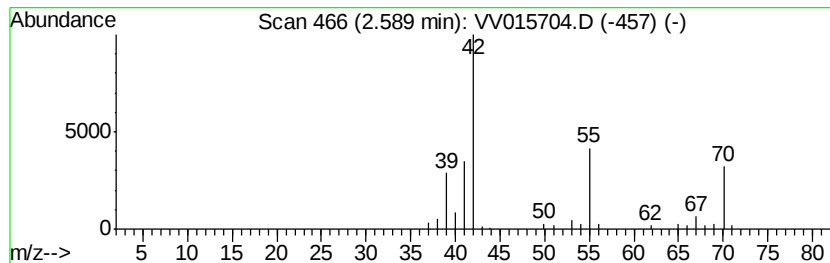
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
Quant Title : TRACE VOA SOM01.0

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

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Peak Number 5 (DEL) Alkane: Cyclic2.59 Concentration Rank 5

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 2.59 | 0.76 ug/L | 46473 | 1,4-Difluorobenzene | 5.64 |

| Hit# | of | Tentative ID         | MW | MolForm | CAS#        | Qual |
|------|----|----------------------|----|---------|-------------|------|
| 1    | 5  | Cyclopropane, ethyl- | 70 | C5H10   | 001191-96-4 | 87   |
| 2    |    | 1-Pentene            | 70 | C5H10   | 000109-67-1 | 86   |
| 3    |    | Cyclopentane         | 70 | C5H10   | 000287-92-3 | 80   |
| 4    |    | Cyclopropane, ethyl- | 70 | C5H10   | 001191-96-4 | 78   |
| 5    |    | Cyclobutane, methyl- | 70 | C5H10   | 000598-61-8 | 78   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA V\DATA\VV042520\  
Data File : VV015704.D  
Acq On : 25 Apr 2020 19:24  
Operator : SY/MD  
Sample : L2413-11  
Misc : 25.0mL/MSVOA V/WATER  
ALS Vial : 18 Sample Multiplier: 1

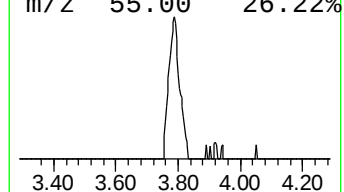
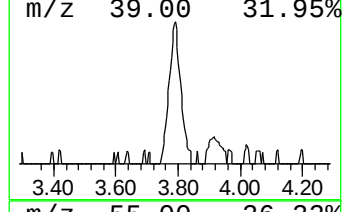
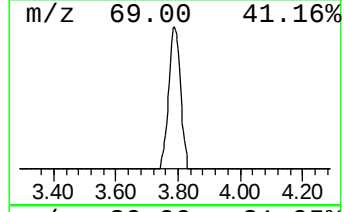
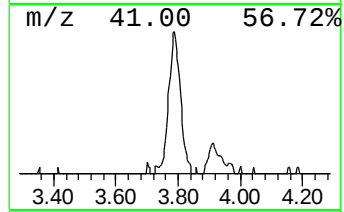
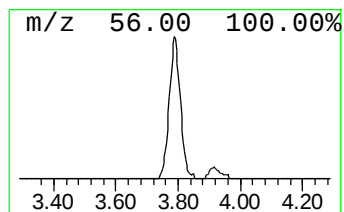
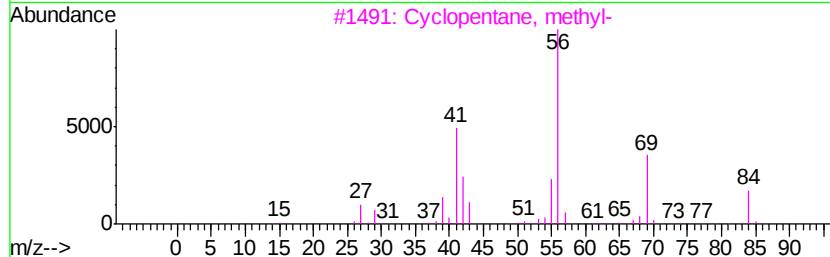
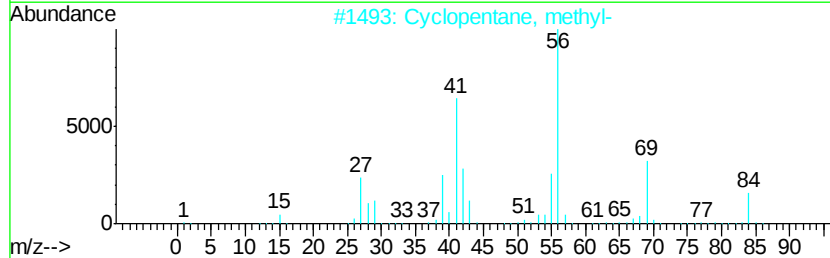
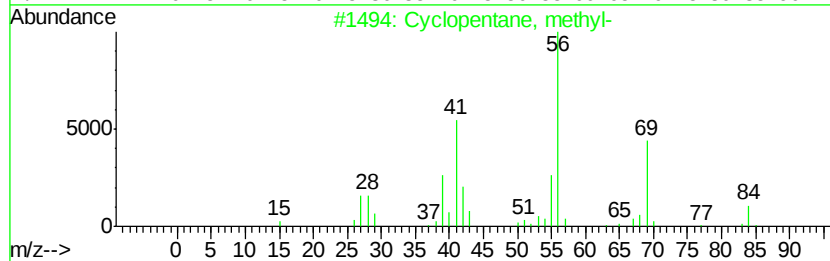
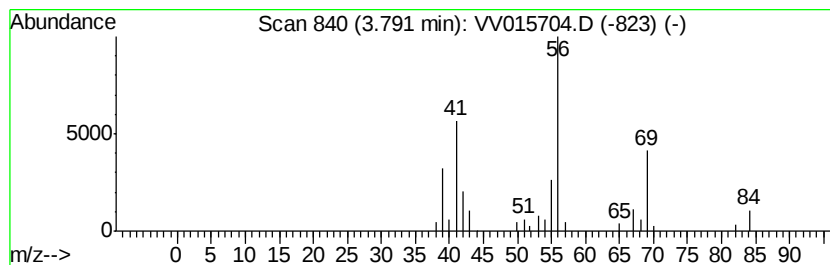
Instrument :  
MSVOA\_V  
ClientSampleId :  
ETKL9

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.M  
Quant Title : TRACE VOA SOM01.0

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

\*\*\*\*\*  
Peak Number 6 (DEL) Alkane: Cyclic3.79 Concentration Rank 6

| R.T.      | EstConc                 | Area  | Relative to ISTD    | R.T.        |      |
|-----------|-------------------------|-------|---------------------|-------------|------|
| 3.79      | 0.61 ug/L               | 37425 | 1,4-Difluorobenzene | 5.64        |      |
| Hit# of 5 | Tentative ID            | MW    | MolForm             | CAS#        | Qual |
| 1         | Cyclopentane, methyl-   | 84    | C6H12               | 000096-37-7 | 91   |
| 2         | Cyclopentane, methyl-   | 84    | C6H12               | 000096-37-7 | 86   |
| 3         | Cyclopentane, methyl-   | 84    | C6H12               | 000096-37-7 | 72   |
| 4         | 1H-Tetrazole, 5-methyl- | 84    | C2H4N4              | 004076-36-2 | 59   |
| 5         | 1-Propene, 2-methyl-    | 56    | C4H8                | 000115-11-7 | 50   |



Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_V\DATA\VV042520\  
Data File : VV015704.D  
Acq On : 25 Apr 2020 19:24  
Operator : SY/MD  
Sample : L2413-11  
Misc : 25.0mL/MSVOA\_V/WATER  
ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_V  
ClientSampleId :  
ETKL9

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_V\METHOD\SOMVTR042220WMA.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... | 1.11 | 32.5    | ug/L  | 1998400  | 1                     | 5.64 | 306947 | 5.0  |
| (DEL) Alkane: Str... | 1.22 | 8.4     | ug/L  | 517331   | 1                     | 5.64 | 306947 | 5.0  |
| (DEL) Alkane: Str... | 1.64 | 2.6     | ug/L  | 161741   | 1                     | 5.64 | 306947 | 5.0  |
| (DEL) Alkane: Str... | 1.82 | 0.6     | ug/L  | 34934    | 1                     | 5.64 | 306947 | 5.0  |
| (DEL) Alkane: Cyc... | 2.59 | 0.8     | ug/L  | 46473    | 1                     | 5.64 | 306947 | 5.0  |
| (DEL) Alkane: Cyc... | 3.79 | 0.6     | ug/L  | 37425    | 1                     | 5.64 | 306947 | 5.0  |