

Data Path : Z:\VOASRV\HPCHEM1\MSVOA U\DATA\VU062019\  
 Data File : VU032889.D  
 Acq On : 20 Jun 2019 09:48  
 Operator : JC/SP  
 Sample : K3414-08  
 Misc : 25.0mL/MSVOA U/WATER  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 GALM4

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\SOMUTR060419WMA.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         | 1.392       | 86            | 94          | 104          | rBV      | 38886          | 44070         | 3.81%           | 0.887%        |
| 2         | 1.678       | 176           | 183         | 198          | rVB      | 35599          | 44763         | 3.87%           | 0.901%        |
| 3         | 2.270       | 357           | 367         | 378          | rVB      | 69143          | 103162        | 8.92%           | 2.077%        |
| 4         | 2.473       | 423           | 430         | 439          | rVB      | 9171           | 13606         | 1.18%           | 0.274%        |
| 5         | 2.694       | 490           | 499         | 509          | rVB3     | 6919           | 11585         | 1.00%           | 0.233%        |
| 6         | 2.936       | 563           | 574         | 595          | rVB      | 70614          | 140763        | 12.18%          | 2.833%        |
| 7         | 4.190       | 948           | 964         | 1007         | rBV      | 55485          | 158013        | 13.67%          | 3.181%        |
| 8         | 4.659       | 1088          | 1110        | 1135         | rBV4     | 96303          | 313110        | 27.08%          | 6.303%        |
| 9         | 5.125       | 1240          | 1255        | 1269         | rVB2     | 17272          | 39080         | 3.38%           | 0.787%        |
| 10        | 5.331       | 1298          | 1319        | 1333         | rBV3     | 110662         | 307720        | 26.62%          | 6.194%        |
| 11        | 5.878       | 1472          | 1489        | 1509         | rBV      | 110889         | 215615        | 18.65%          | 4.340%        |
| 12        | 6.202       | 1580          | 1590        | 1612         | rBV3     | 20078          | 51710         | 4.47%           | 1.041%        |
| 13        | 6.325       | 1616          | 1628        | 1650         | rVB      | 76851          | 153955        | 13.32%          | 3.099%        |
| 14        | 7.222       | 1894          | 1907        | 1922         | rBV      | 40845          | 70886         | 6.13%           | 1.427%        |
| 15        | 7.559       | 1998          | 2012        | 2027         | rBV      | 141211         | 244536        | 21.15%          | 4.922%        |
| 16        | 7.633       | 2027          | 2035        | 2053         | rVB2     | 15257          | 28234         | 2.44%           | 0.568%        |
| 17        | 7.845       | 2090          | 2101        | 2116         | rBV2     | 24657          | 43091         | 3.73%           | 0.867%        |
| 18        | 8.132       | 2180          | 2190        | 2220         | rBV      | 138541         | 277819        | 24.03%          | 5.592%        |
| 19        | 8.308       | 2235          | 2245        | 2279         | rVB      | 223588         | 388942        | 33.64%          | 7.829%        |
| 20        | 9.083       | 2474          | 2486        | 2507         | rBV      | 165491         | 278807        | 24.12%          | 5.612%        |
| 21        | 9.681       | 2661          | 2672        | 2698         | rBV      | 682112         | 1156043       | 100.00%         | 23.270%       |
| 22        | 9.787       | 2700          | 2705        | 2720         | rVB5     | 20836          | 37606         | 3.25%           | 0.757%        |
| 23        | 10.427      | 2893          | 2904        | 2917         | rBV      | 64269          | 102701        | 8.88%           | 2.067%        |
| 24        | 10.601      | 2949          | 2958        | 2967         | rVB2     | 8932           | 14245         | 1.23%           | 0.287%        |
| 25        | 11.022      | 3078          | 3089        | 3100         | rBV      | 41274          | 77870         | 6.74%           | 1.567%        |
| 26        | 11.096      | 3100          | 3112        | 3124         | rVB5     | 29068          | 61746         | 5.34%           | 1.243%        |
| 27        | 11.479      | 3218          | 3231        | 3252         | rBV      | 186732         | 307013        | 26.56%          | 6.180%        |
| 28        | 11.749      | 3305          | 3315        | 3329         | rBV4     | 7507           | 15681         | 1.36%           | 0.316%        |
| 29        | 11.855      | 3336          | 3348        | 3369         | rVB      | 157912         | 265498        | 22.97%          | 5.344%        |

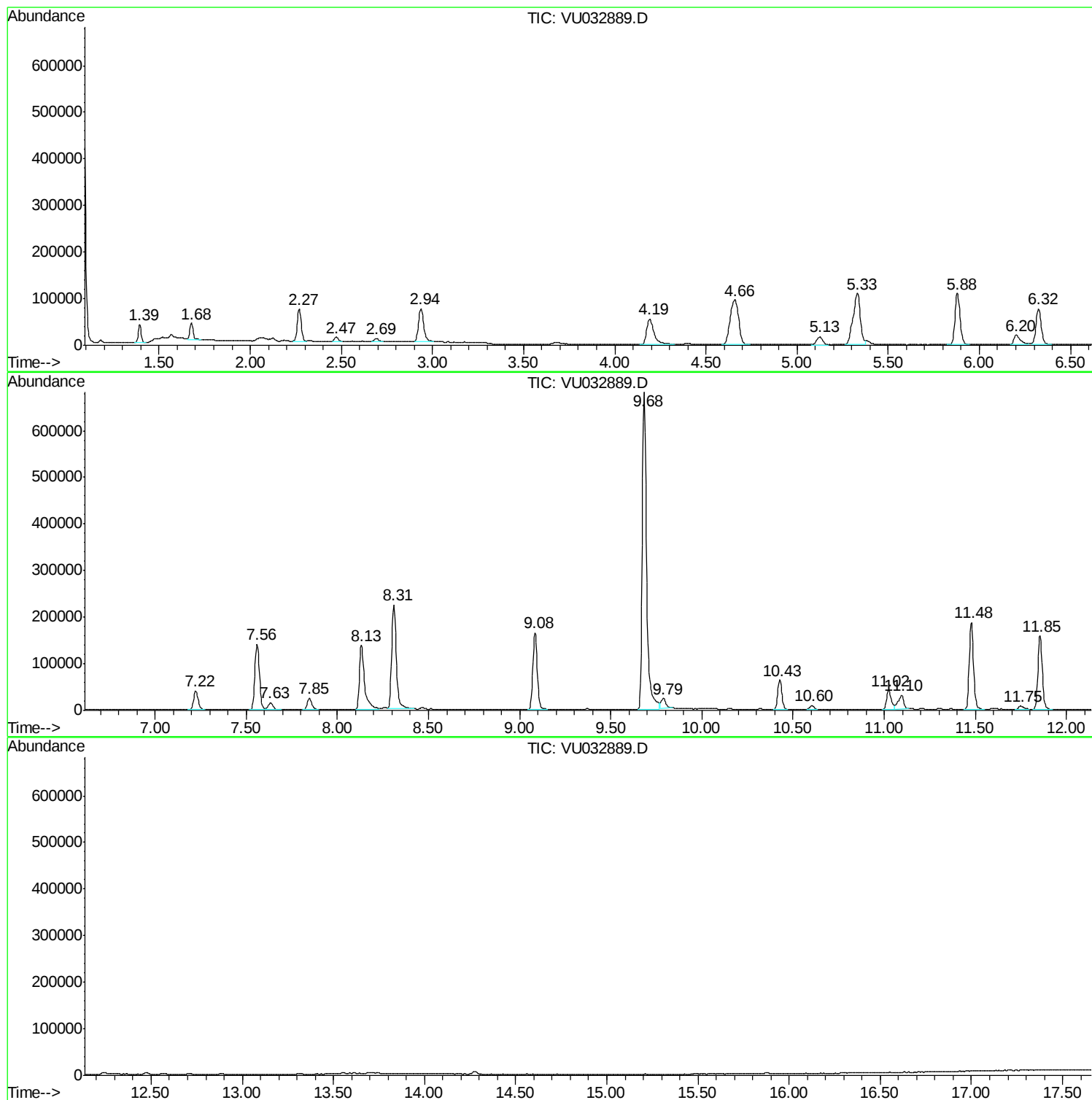
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ClientSampleId :  
GALM4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

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



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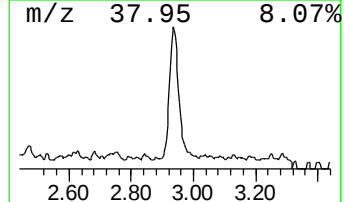
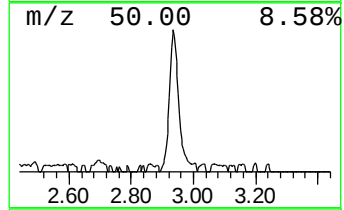
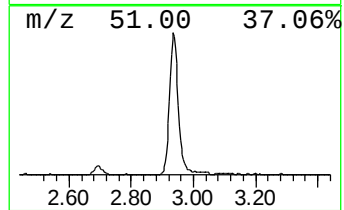
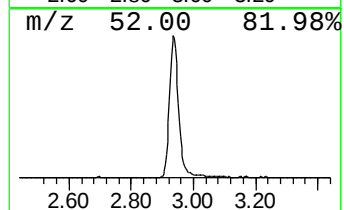
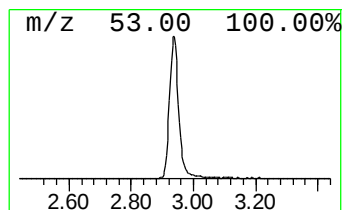
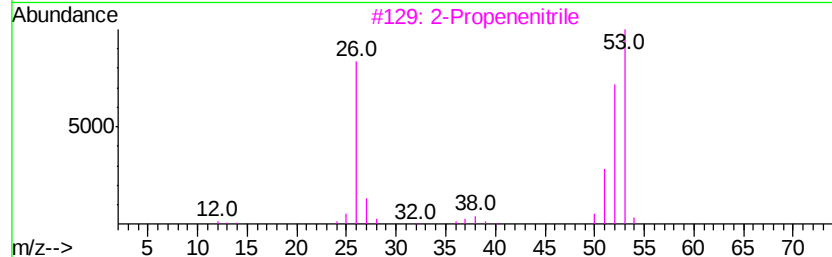
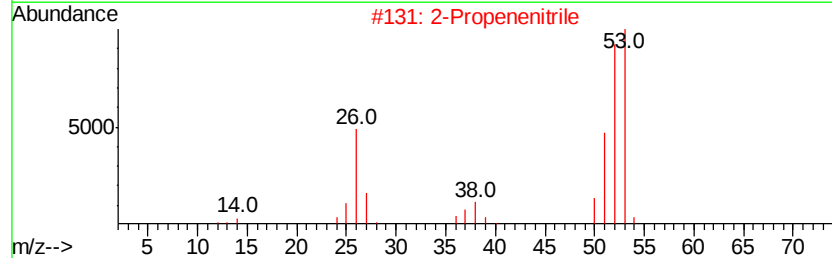
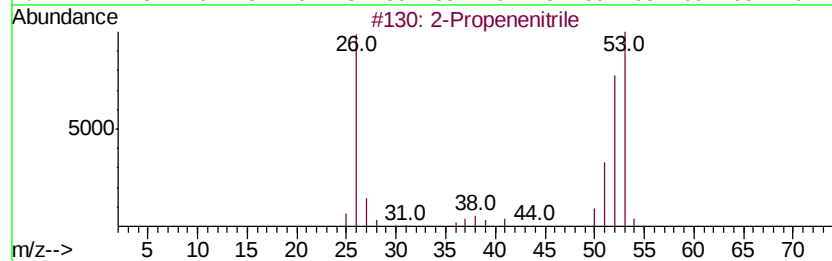
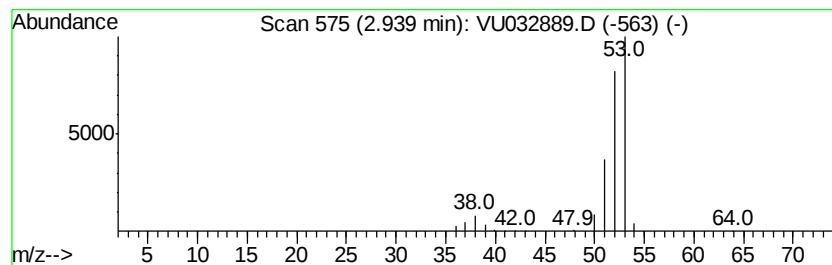
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

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

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Peak Number 1 2-Propenenitrile Concentration Rank 3

| R.T. | EstConc   | Area   | Relative to ISTD    | R.T. |
|------|-----------|--------|---------------------|------|
| 2.94 | 3.26 ug/L | 140763 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | 5 | Tentative ID          | MW | MolForm | CAS#        | Qual |
|------|----|---|-----------------------|----|---------|-------------|------|
| 1    |    |   | 2-Propenenitrile      | 53 | C3H3N   | 000107-13-1 | 90   |
| 2    |    |   | 2-Propenenitrile      | 53 | C3H3N   | 000107-13-1 | 83   |
| 3    |    |   | 2-Propenenitrile      | 53 | C3H3N   | 000107-13-1 | 83   |
| 4    |    |   | 2,4-Pentadienenitrile | 79 | C5H5N   | 001615-70-9 | 23   |
| 5    |    |   | 1-Buten-3-yne         | 52 | C4H4    | 000689-97-4 | 9    |



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MSVOA\_U  
ClientSampleId :  
GALM4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

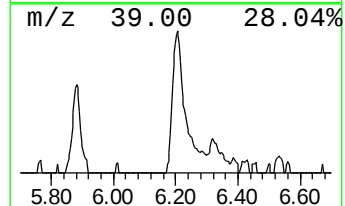
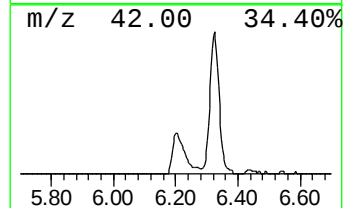
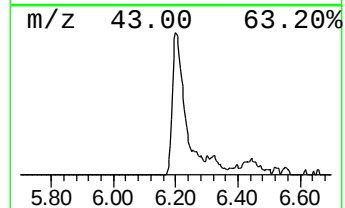
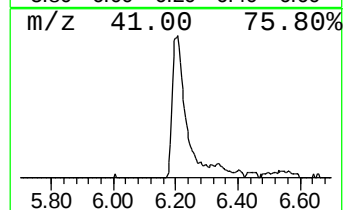
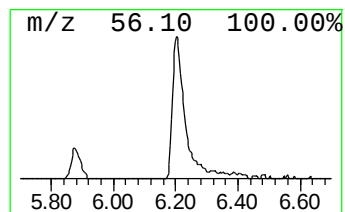
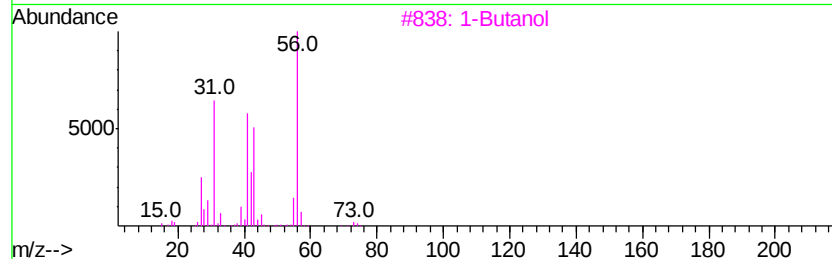
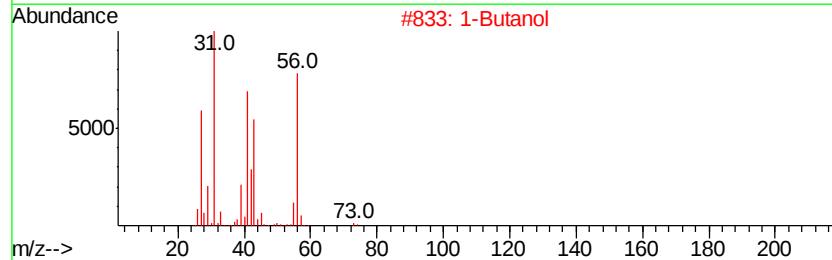
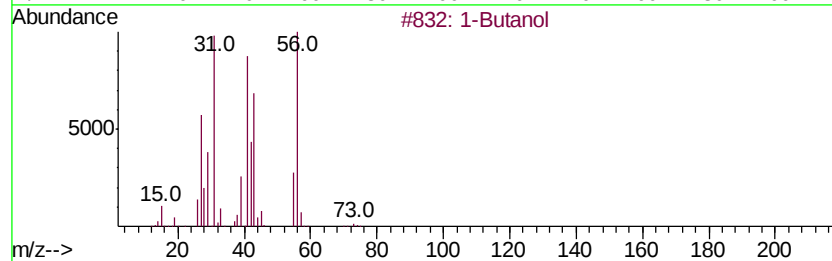
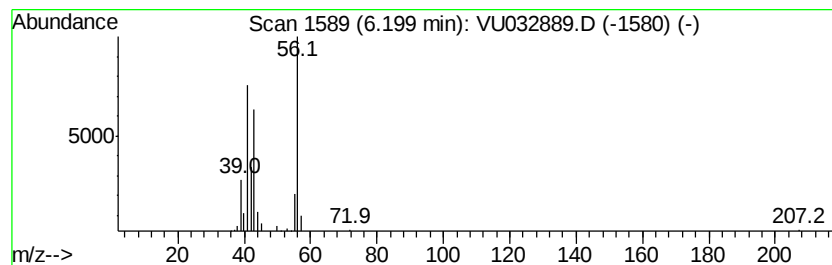
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 2 1-Butanol Concentration Rank 6

| R.T. | EstConc   | Area  | Relative to ISTD    | R.T. |
|------|-----------|-------|---------------------|------|
| 6.20 | 1.20 ug/L | 51710 | 1,4-Difluorobenzene | 5.88 |

| Hit# | of | Tentative ID          | MW | MolForm | CAS#        | Qual |
|------|----|-----------------------|----|---------|-------------|------|
| 1    | 5  | 1-Butanol             | 74 | C4H10O  | 000071-36-3 | 78   |
| 2    |    | 1-Butanol             | 74 | C4H10O  | 000071-36-3 | 64   |
| 3    |    | 1-Butanol             | 74 | C4H10O  | 000071-36-3 | 56   |
| 4    |    | Cyclopentane, methyl- | 84 | C6H12   | 000096-37-7 | 45   |
| 5    |    | 1-Butanol             | 74 | C4H10O  | 000071-36-3 | 40   |



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ALS Vial : 4 Sample Multiplier: 1

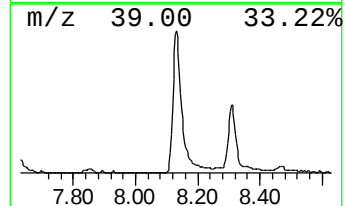
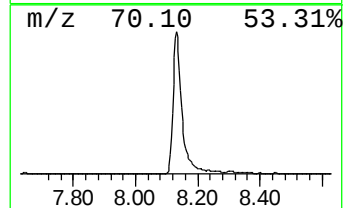
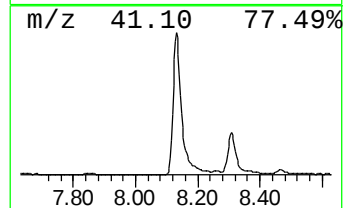
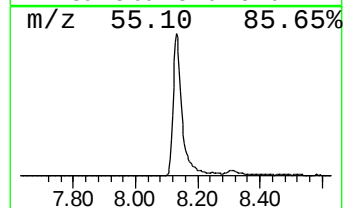
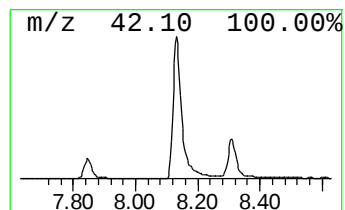
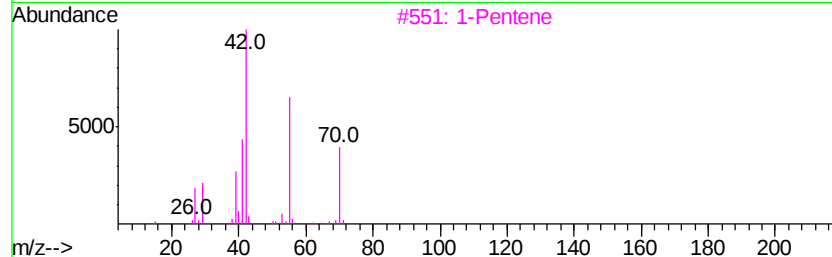
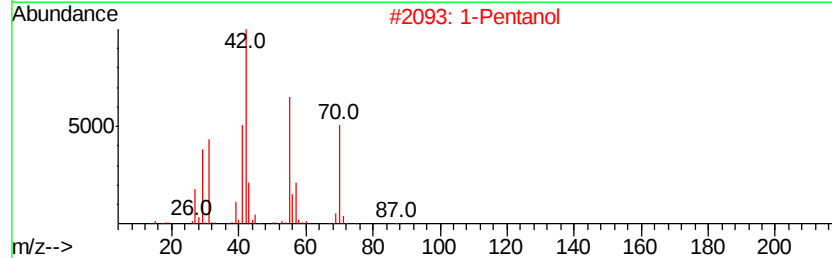
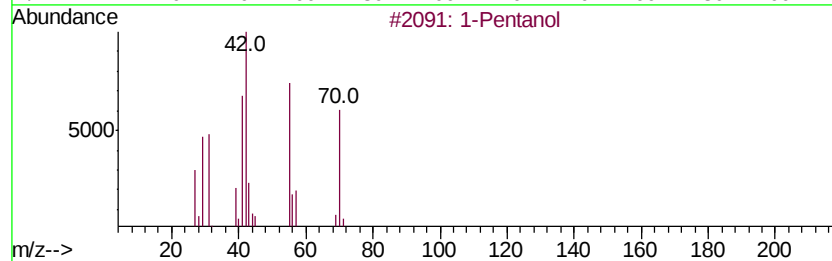
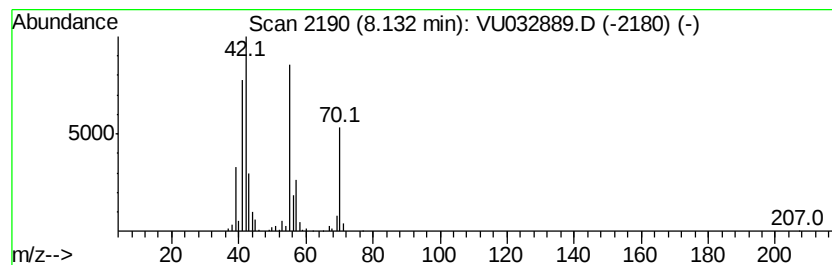
Instrument :  
MSVOA\_U  
ClientSampleId :  
GALM4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.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 1-Pentanol Concentration Rank 2

| R.T.    | EstConc    | Area         | Relative to ISTD | R.T.    |             |      |
|---------|------------|--------------|------------------|---------|-------------|------|
| 8.13    | 4.98 ug/L  | 277819       | Chlorobenzene-d5 | 9.08    |             |      |
| Hit# of | 5          | Tentative ID | MW               | MolForm | CAS#        | Qual |
| 1       | 1-Pentanol |              | 88               | C5H12O  | 000071-41-0 | 90   |
| 2       | 1-Pentanol |              | 88               | C5H12O  | 000071-41-0 | 80   |
| 3       | 1-Pentene  |              | 70               | C5H10   | 000109-67-1 | 72   |
| 4       | 1-Pentanol |              | 88               | C5H12O  | 000071-41-0 | 72   |
| 5       | 1-Pentene  |              | 70               | C5H10   | 000109-67-1 | 72   |



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Instrument :  
MSVOA\_U  
ClientSampleId :  
GALM4

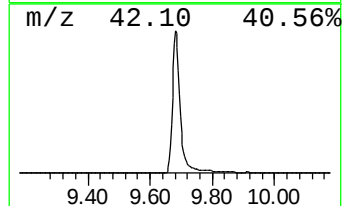
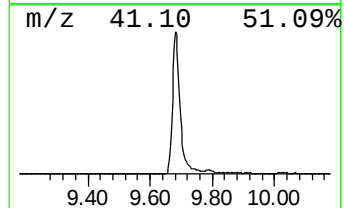
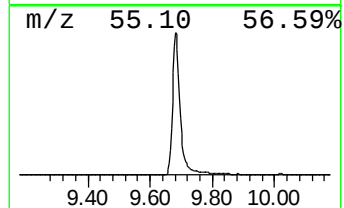
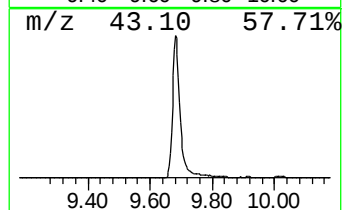
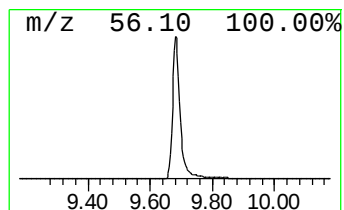
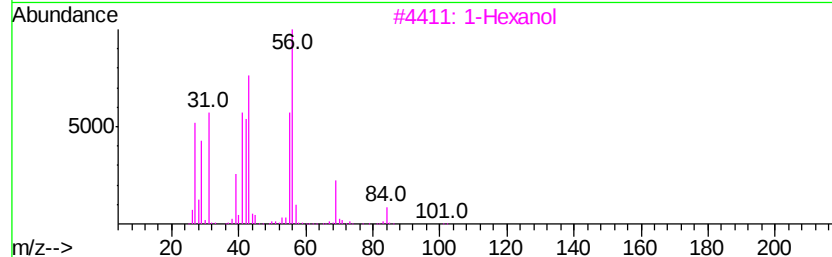
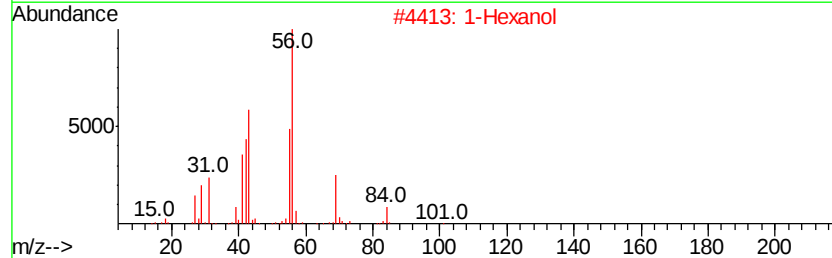
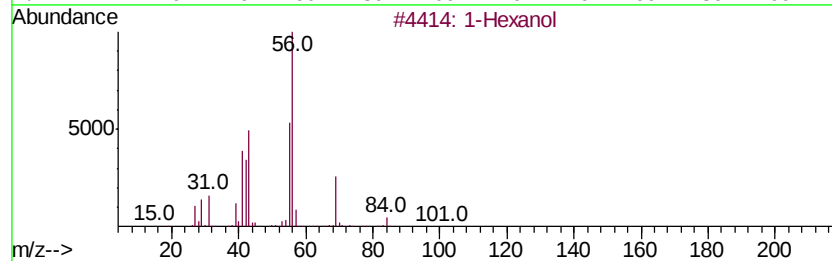
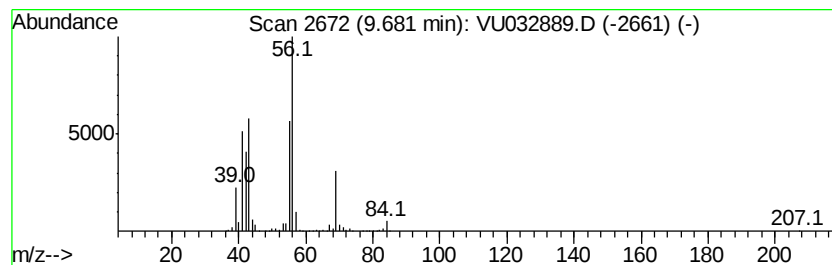
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Peak Number 5 1-Hexanol Concentration Rank 1

| R.T. | EstConc    | Area    | Relative to ISTD | R.T. |
|------|------------|---------|------------------|------|
| 9.68 | 20.73 ug/L | 1156040 | Chlorobenzene-d5 | 9.08 |

| Hit# | of | Tentative ID | MW  | MolForm | CAS#        | Qual |
|------|----|--------------|-----|---------|-------------|------|
| 1    | 5  | 1-Hexanol    | 102 | C6H14O  | 000111-27-3 | 83   |
| 2    |    | 1-Hexanol    | 102 | C6H14O  | 000111-27-3 | 78   |
| 3    |    | 1-Hexanol    | 102 | C6H14O  | 000111-27-3 | 78   |
| 4    |    | 1-Hexanol    | 102 | C6H14O  | 000111-27-3 | 78   |
| 5    |    | 1-Hexanol    | 102 | C6H14O  | 000111-27-3 | 78   |



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GALM4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

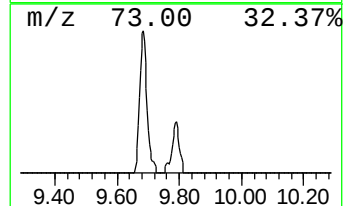
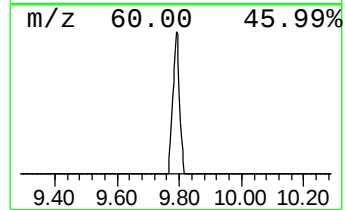
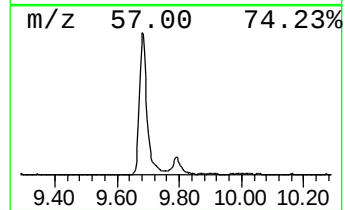
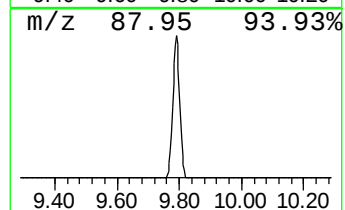
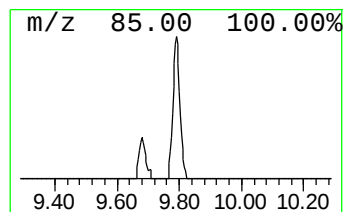
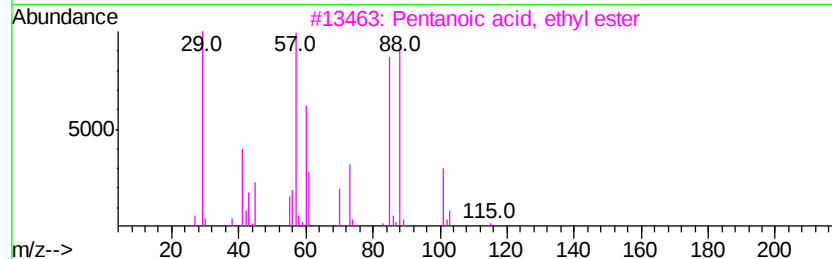
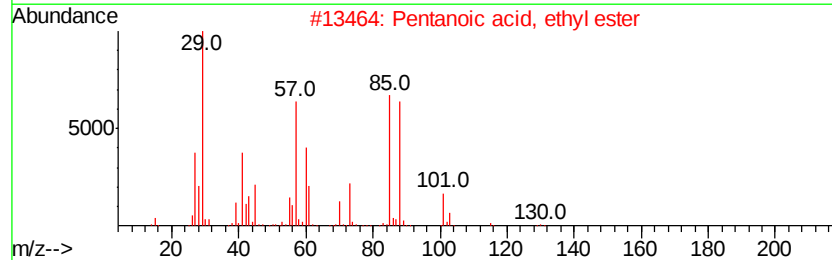
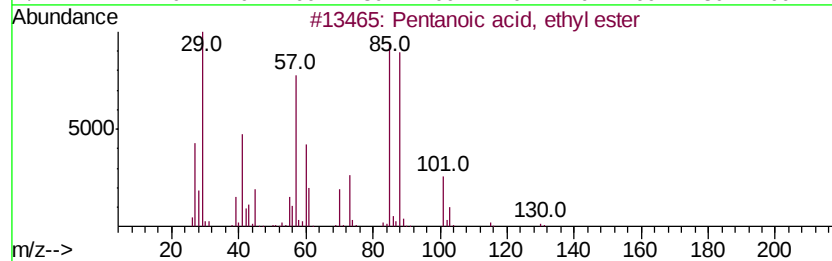
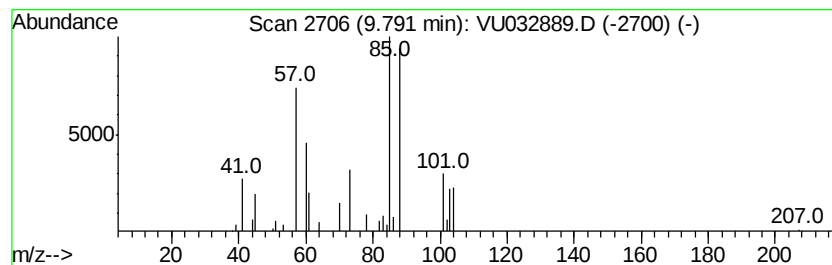
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 6 Pentanoic acid, ethyl ester Concentration Rank 8

| R.T. | EstConc   | Area  | Relative to ISTD | R.T. |
|------|-----------|-------|------------------|------|
| 9.79 | 0.67 ug/L | 37606 | Chlorobenzene-d5 | 9.08 |

| Hit# | of | Tentative ID                | MW  | MolForm | CAS#        | Qual |
|------|----|-----------------------------|-----|---------|-------------|------|
| 1    | 5  | Pentanoic acid, ethyl ester | 130 | C7H14O2 | 000539-82-2 | 80   |
| 2    |    | Pentanoic acid, ethyl ester | 130 | C7H14O2 | 000539-82-2 | 78   |
| 3    |    | Pentanoic acid, ethyl ester | 130 | C7H14O2 | 000539-82-2 | 78   |
| 4    |    | Pentanoic acid, ethyl ester | 130 | C7H14O2 | 000539-82-2 | 72   |
| 5    |    | Pentanoic acid, ethyl ester | 130 | C7H14O2 | 000539-82-2 | 64   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU062019\  
Data File : VU032889.D  
Acq On : 20 Jun 2019 09:48  
Operator : JC/SP  
Sample : K3414-08  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GALM4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

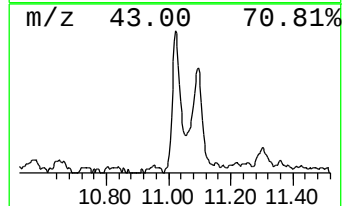
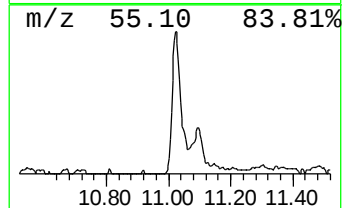
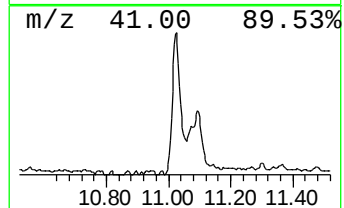
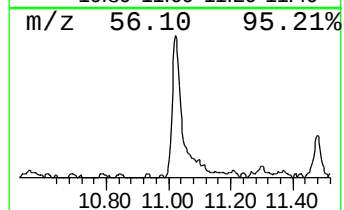
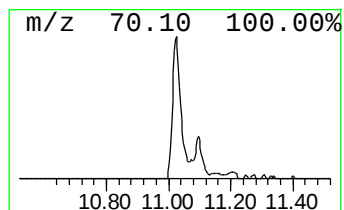
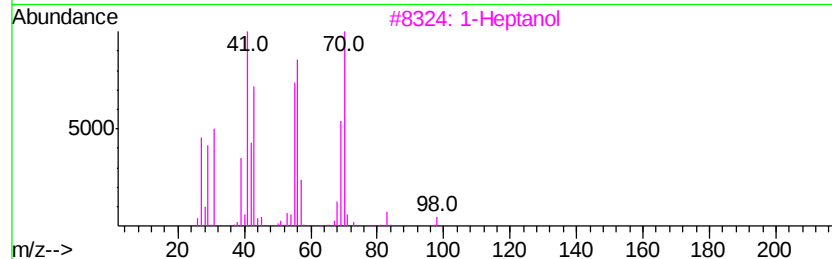
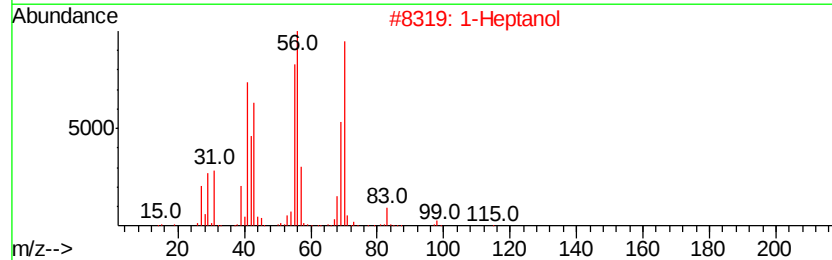
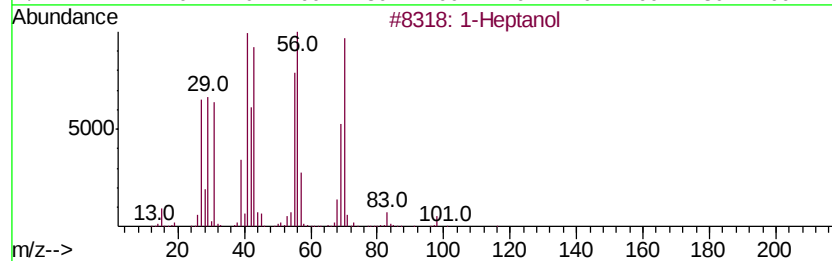
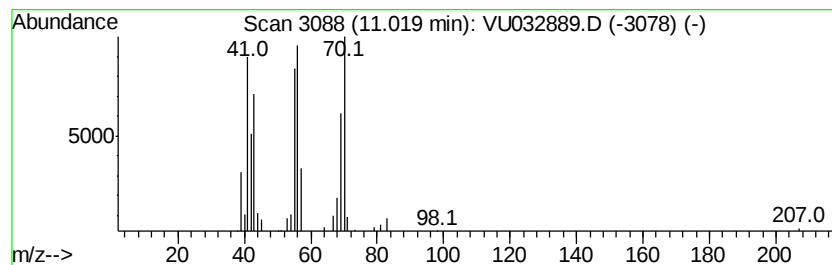
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 7 1-Heptanol Concentration Rank 5

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.02 | 1.27 ug/L | 77870 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID              | MW  | MolForm | CAS#        | Qual |
|------|----|---------------------------|-----|---------|-------------|------|
| 1    | 5  | 1-Heptanol                | 116 | C7H16O  | 000111-70-6 | 86   |
| 2    |    | 1-Heptanol                | 116 | C7H16O  | 000111-70-6 | 86   |
| 3    |    | 1-Heptanol                | 116 | C7H16O  | 000111-70-6 | 80   |
| 4    |    | 1-Heptanol                | 116 | C7H16O  | 000111-70-6 | 80   |
| 5    |    | Formic acid, heptyl ester | 144 | C8H16O2 | 000112-23-2 | 78   |



Data Path : Z:\V0ASRV\HPCHEM1\MSVOA U\DATA\VU062019\  
Data File : VU032889.D  
Acq On : 20 Jun 2019 09:48  
Operator : JC/SP  
Sample : K3414-08  
Misc : 25.0mL/MSVOA U/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GALM4

Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.M  
Quant Title : TRACE VOA SOM01.0

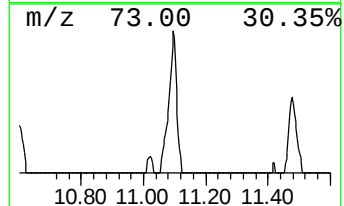
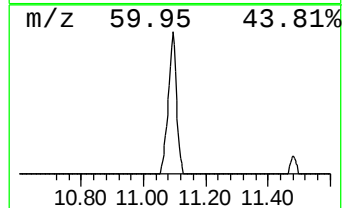
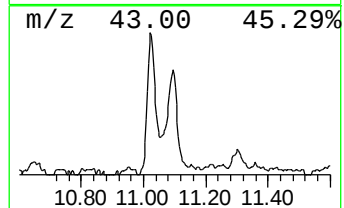
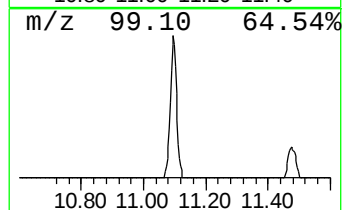
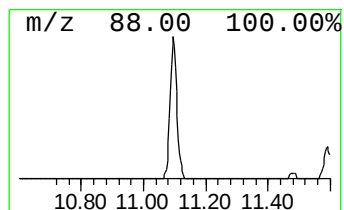
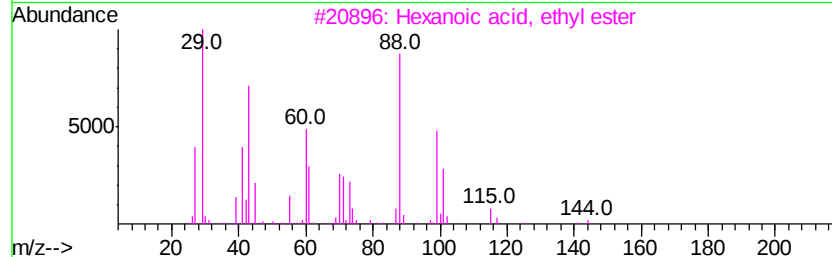
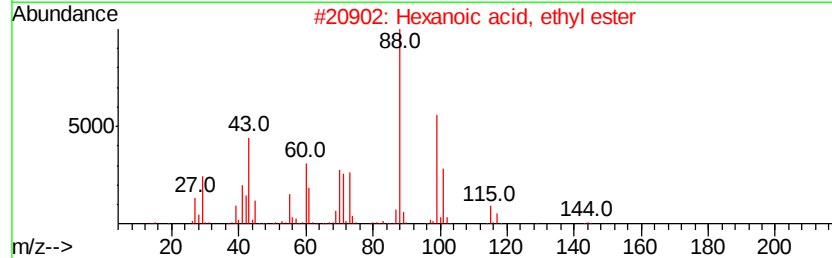
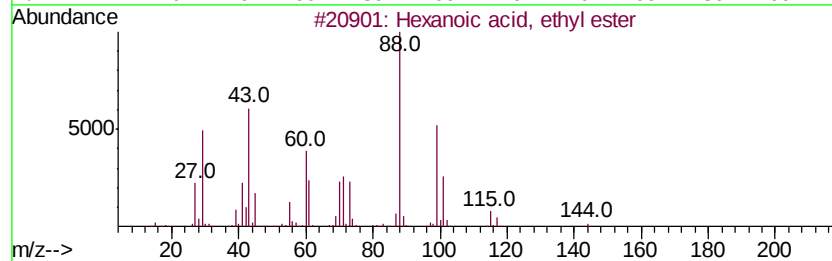
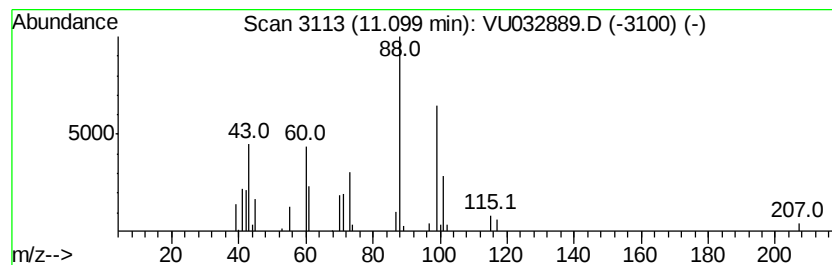
TIC Library : C:\DATABASE\NIST11.L  
TIC Integration Parameters: LSCINT.P

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Peak Number 8 Hexanoic acid, ethyl ester Concentration Rank 7

| R.T.  | EstConc   | Area  | Relative to ISTD       | R.T.  |
|-------|-----------|-------|------------------------|-------|
| 11.10 | 1.01 ug/L | 61746 | 1,4-Dichlorobenzene-d4 | 11.48 |

| Hit# | of | Tentative ID               | MW  | MolForm | CAS#        | Qual |
|------|----|----------------------------|-----|---------|-------------|------|
| 1    | 5  | Hexanoic acid, ethyl ester | 144 | C8H16O2 | 000123-66-0 | 80   |
| 2    |    | Hexanoic acid, ethyl ester | 144 | C8H16O2 | 000123-66-0 | 80   |
| 3    |    | Hexanoic acid, ethyl ester | 144 | C8H16O2 | 000123-66-0 | 78   |
| 4    |    | Hexanoic acid, ethyl ester | 144 | C8H16O2 | 000123-66-0 | 78   |
| 5    |    | Hexanoic acid, ethyl ester | 144 | C8H16O2 | 000123-66-0 | 78   |



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Data File : VU032889.D  
Acq On : 20 Jun 2019 09:48  
Operator : JC/SP  
Sample : K3414-08  
Misc : 25.0mL/MSVOA\_U/WATER  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
GALM4

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_U\METHOD\SOMUTR060419WMA.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 |
| 2-Propenenitrile     | 2.94  | 3.3     | ug/L  | 140763   | 1                     | 5.88  | 215615 | 5.0  |
| 1-Butanol            | 6.20  | 1.2     | ug/L  | 51710    | 1                     | 5.88  | 215615 | 5.0  |
| 1-Pentanol           | 8.13  | 5.0     | ug/L  | 277819   | 2                     | 9.08  | 278807 | 5.0  |
| 1-Hexanol            | 9.68  | 20.7    | ug/L  | 1156040  | 2                     | 9.08  | 278807 | 5.0  |
| Pentanoic acid, e... | 9.79  | 0.7     | ug/L  | 37606    | 2                     | 9.08  | 278807 | 5.0  |
| 1-Heptanol           | 11.02 | 1.3     | ug/L  | 77870    | 3                     | 11.48 | 307013 | 5.0  |
| Hexanoic acid, et... | 11.10 | 1.0     | ug/L  | 61746    | 3                     | 11.48 | 307013 | 5.0  |