

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU100522\  
 Data File : VU051142.D  
 Acq On : 05 Oct 2022 21:55  
 Operator : JC/MD  
 Sample : N4889-01  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 32 Sample Multiplier: 1

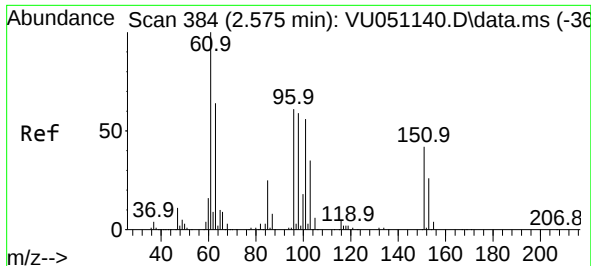
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXZ59

Quant Time: Oct 06 06:30:47 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM092922WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Thu Oct 06 06:20:30 2022  
 Response via : Initial Calibration

| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) 1,4-Difluorobenzene        | 6.247          | 114  | 402303     | 50.000   | ug/L   | 0.00     |
| 28) Chlorobenzene-d5          | 9.417          | 117  | 422566     | 50.000   | ug/L   | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.809         | 152  | 230511     | 50.000   | ug/L   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 4) Vinyl Chloride-d3          | 1.597          | 65   | 141006     | 34.585   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 135 |      | Recovery = | 69.160%  |        |          |
| 7) Chloroethane-d5            | 1.900          | 69   | 135766     | 35.847   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 130 |      | Recovery = | 71.700%  |        |          |
| 11) 1,1-Dichloroethene-d2     | 2.562          | 63   | 181797     | 30.186   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 60.380%  |        |          |
| 21) 2-Butanone-d5             | 4.620          | 46   | 238912     | 90.347   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 40 - 130 |      | Recovery = | 90.350%  |        |          |
| 24) Chloroform-d              | 5.060          | 84   | 301336     | 45.874   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 91.740%  |        |          |
| 26) 1,2-Dichloroethane-d4     | 5.700          | 65   | 196561     | 48.345   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 96.680%  |        |          |
| 32) Benzene-d6                | 5.726          | 84   | 611593     | 49.424   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 125 |      | Recovery = | 98.840%  |        |          |
| 36) 1,2-Dichloropropane-d6    | 6.690          | 67   | 210565     | 52.440   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 120 |      | Recovery = | 104.880% |        |          |
| 41) Toluene-d8                | 7.896          | 98   | 562732     | 49.220   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 98.440%  |        |          |
| 43) trans-1,3-Dichloroprop... | 8.179          | 79   | 83205      | 43.444   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 60 - 125 |      | Recovery = | 86.880%  |        |          |
| 47) 2-Hexanone-d5             | 8.632          | 63   | 135977     | 83.867   | ug/L   | 0.00     |
| Spiked Amount 100.000         | Range 45 - 130 |      | Recovery = | 83.870%  |        |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.755         | 84   | 340231     | 48.483   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 120 |      | Recovery = | 96.960%  |        |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.192         | 152  | 236346     | 47.995   | ug/L   | 0.00     |
| Spiked Amount 50.000          | Range 80 - 120 |      | Recovery = | 96.000%  |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.562          | 101  | 2048       | 0.667    | ug/L # | 22       |
| 12) 1,1-Dichloroethene        | 2.568          | 96   | 1699       | 0.592    | ug/L # | 1        |
| 19) 1,1-Dichloroethane        | 3.867          | 63   | 24900      | 4.295    | ug/L   | 97       |
| 29) Cyclohexane               | 5.385          | 56   | 45105      | 10.962   | ug/L   | 95       |
| 35) Methylcyclohexane         | 6.761          | 83   | 211387     | 46.546   | ug/L   | 88       |
| 37) 1,2-Dichloropropane       | 6.761          | 63   | 2968       | 0.856    | ug/L   | 99       |
| 38) Bromodichloromethane      | 7.070          | 83   | 2436       | 0.526    | ug/L # | 92       |
| 44) trans-1,3-Dichloropropene | 8.179          | 75   | 3438       | 0.692    | ug/L # | 77       |
| 45) 1,1,2-Trichloroethane     | 8.369          | 97   | 46971      | 12.500   | ug/L # | 18       |
| 52) Ethylbenzene              | 9.571          | 91   | 3514277    | 240.435  | ug/L   | 99       |
| 61) Isopropylbenzene          | 10.485         | 105  | 736112     | 49.159   | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.086         | 105  | 1158264    | 94.594   | ug/L   | 99       |
| 63) 1,2,4-Trimethylbenzene    | 11.465         | 105  | 3286094    | 267.766  | ug/L   | 99       |
| 71) Naphthalene               | 14.086         | 128  | 235548     | 15.365   | ug/L   | 99       |
| -----                         |                |      |            |          |        |          |

(#) = qualifier out of range (m) = manual integration (+) = signals summed

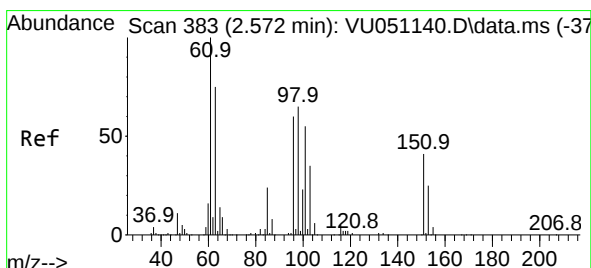
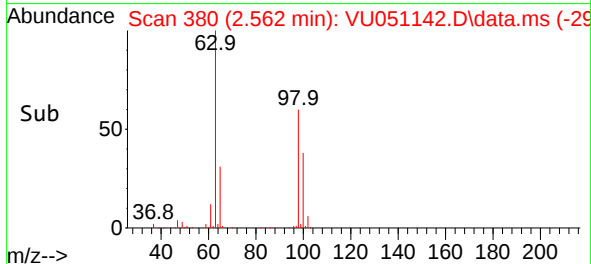
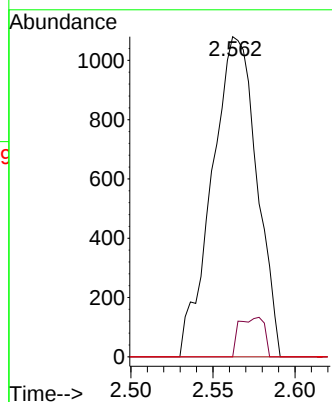
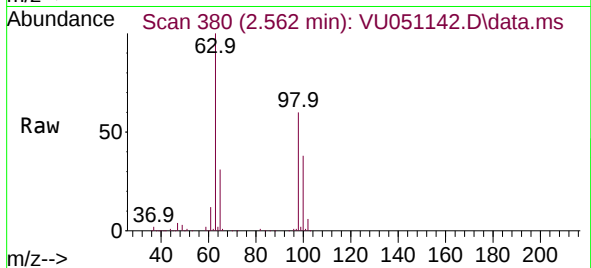




#10  
1,1,2-Trichloro-1,2,2-trifluoroethane  
Concen: 0.667 ug/L  
RT: 2.562 min Scan# 380  
Delta R.T. -0.013 min  
Lab File: VU051142.D  
Acq: 05 Oct 2022 21:55

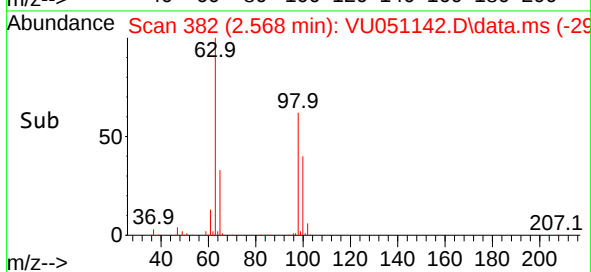
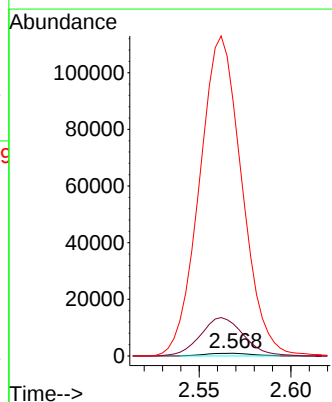
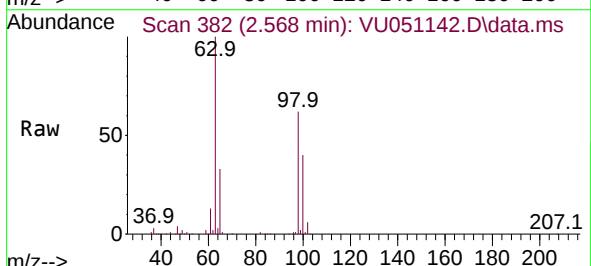
Instrument :  
MSVOA\_U  
ClientSampleId :  
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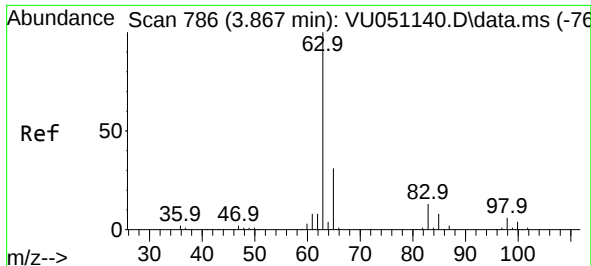
Tgt Ion:101 Resp: 2048  
Ion Ratio Lower Upper  
101 100  
85 3.4 34.6 52.0#  
151 0.0 58.6 87.8#



#12  
1,1-Dichloroethene  
Concen: 0.592 ug/L  
RT: 2.568 min Scan# 382  
Delta R.T. -0.003 min  
Lab File: VU051142.D  
Acq: 05 Oct 2022 21:55

Tgt Ion: 96 Resp: 1699  
Ion Ratio Lower Upper  
96 100  
61 1208.1 113.0 209.9#  
63 9571.2 91.7 170.3#





#19

1,1-Dichloroethane

Concen: 4.295 ug/L

RT: 3.867 min Scan# 786

Delta R.T. 0.000 min

Lab File: VU051142.D

Acq: 05 Oct 2022 21:55

Instrument :

MSVOA\_U

ClientSampleId :

EXZ59

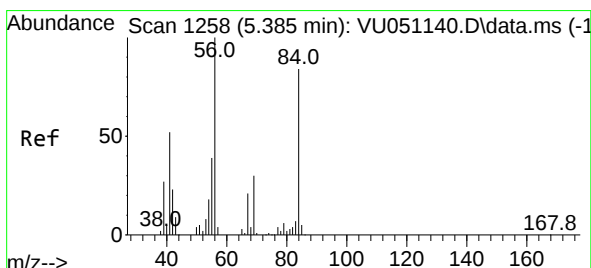
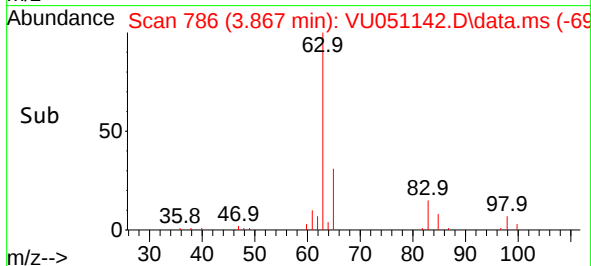
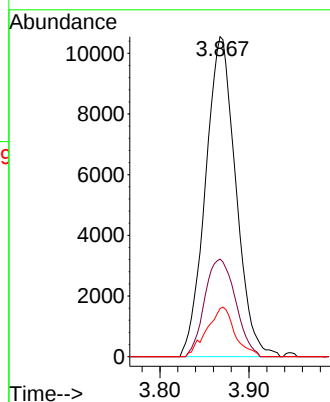
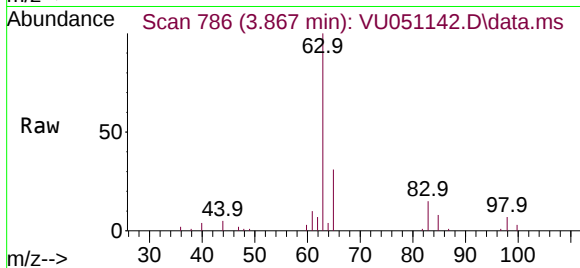
Tgt Ion: 63 Resp: 24900

Ion Ratio Lower Upper

63 100

65 30.5 22.6 42.0

83 15.0 9.4 17.4



#29

Cyclohexane

Concen: 10.962 ug/L

RT: 5.385 min Scan# 1258

Delta R.T. 0.000 min

Lab File: VU051142.D

Acq: 05 Oct 2022 21:55

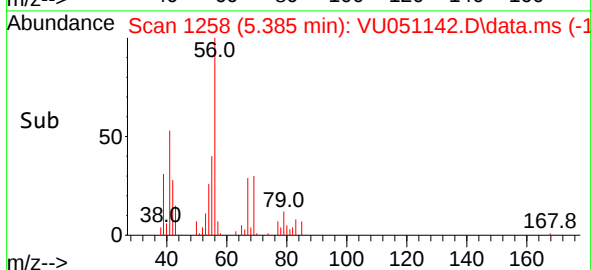
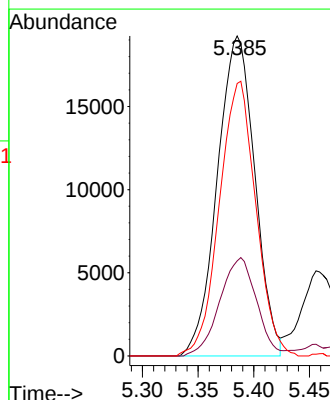
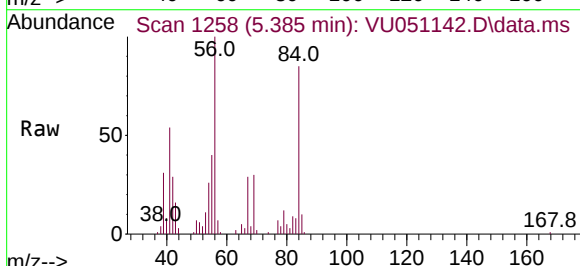
Tgt Ion: 56 Resp: 45105

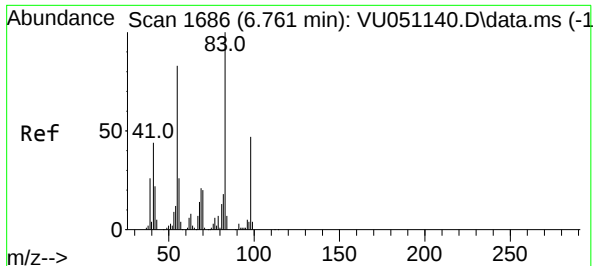
Ion Ratio Lower Upper

56 100

69 30.0 24.8 37.2

84 83.4 71.8 107.6

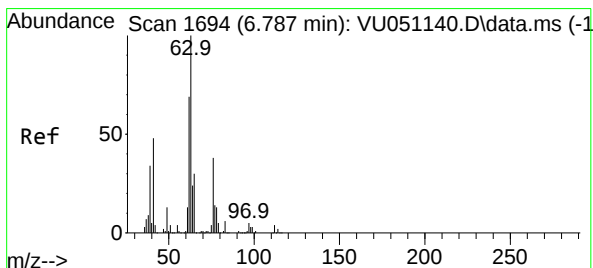
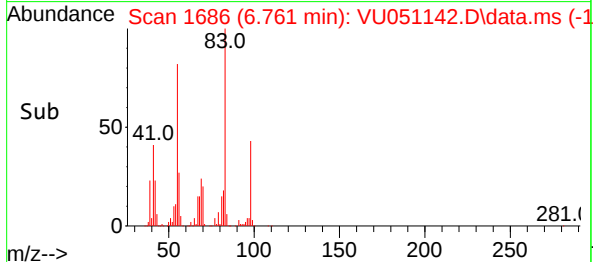
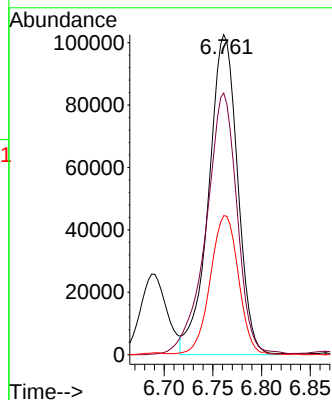
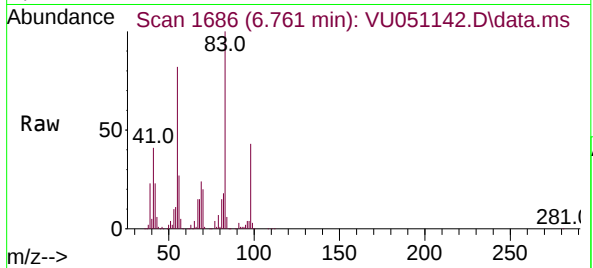




#35  
Methylcyclohexane  
Concen: 46.546 ug/L  
RT: 6.761 min Scan# 1686  
Delta R.T. 0.000 min  
Lab File: VU051142.D  
Acq: 05 Oct 2022 21:55

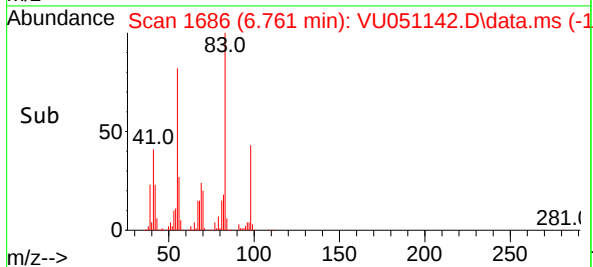
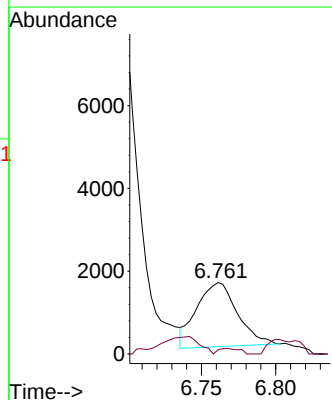
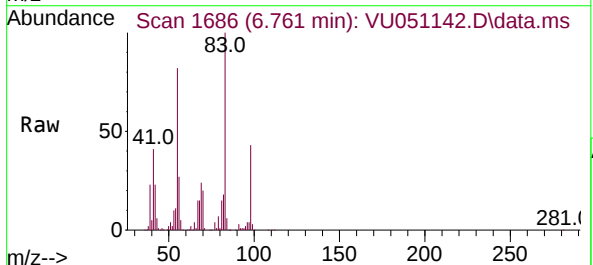
Instrument :  
MSVOA\_U  
ClientSampleId :  
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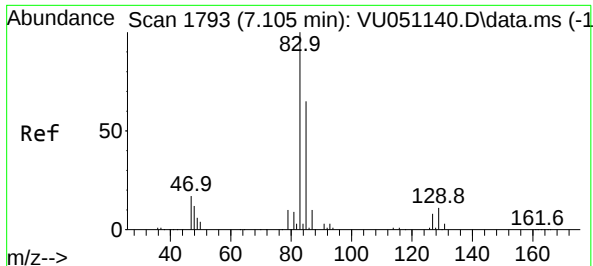
Tgt Ion: 83 Resp: 211387  
Ion Ratio Lower Upper  
83 100  
55 88.1 59.3 88.9  
98 42.6 36.0 54.0



#37  
1,2-Dichloropropane  
Concen: 0.856 ug/L  
RT: 6.761 min Scan# 1686  
Delta R.T. -0.026 min  
Lab File: VU051142.D  
Acq: 05 Oct 2022 21:55

Tgt Ion: 63 Resp: 2968  
Ion Ratio Lower Upper  
63 100  
112 3.8 3.3 4.9





#38

Bromodichloromethane

Concen: 0.526 ug/L

RT: 7.070 min Scan# 11

Delta R.T. -0.035 min

Lab File: VU051142.D

Acq: 05 Oct 2022 21:55

Instrument :

MSVOA\_U

ClientSampleId :

EXZ59

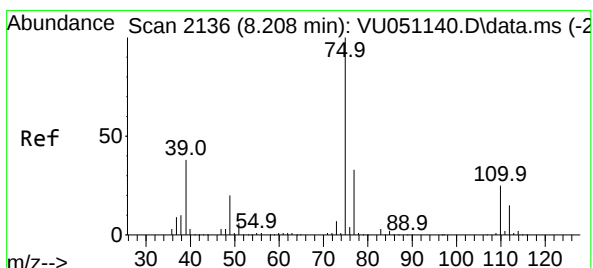
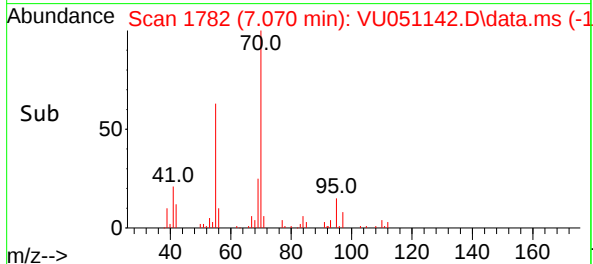
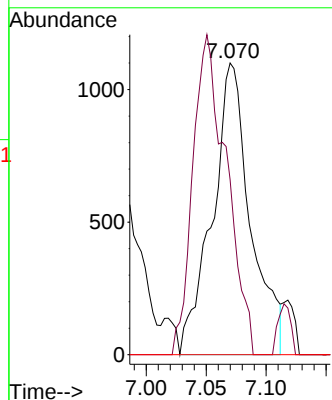
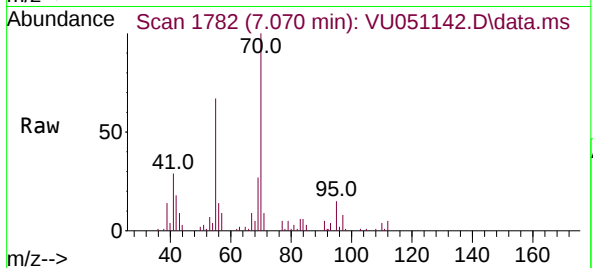
Tgt Ion: 83 Resp: 2436

Ion Ratio Lower Upper

83 100

85 60.0 45.1 83.7

127 0.0 6.7 10.1#



#44

trans-1,3-Dichloropropene

Concen: 0.692 ug/L

RT: 8.179 min Scan# 2127

Delta R.T. -0.029 min

Lab File: VU051142.D

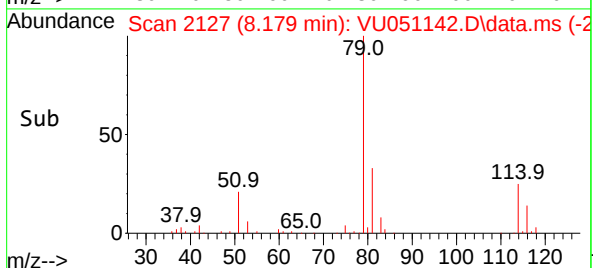
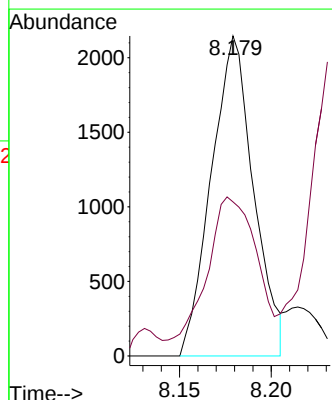
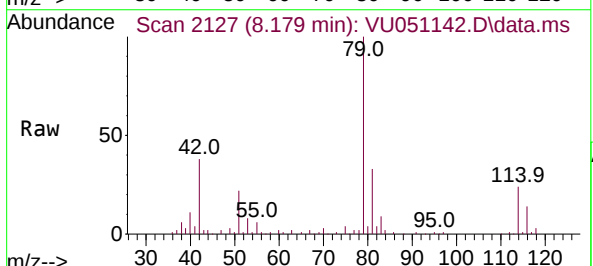
Acq: 05 Oct 2022 21:55

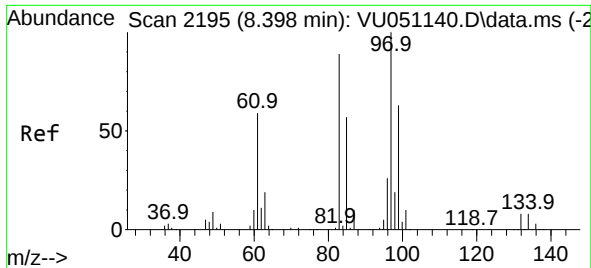
Tgt Ion: 75 Resp: 3438

Ion Ratio Lower Upper

75 100

77 45.5 22.7 42.3#

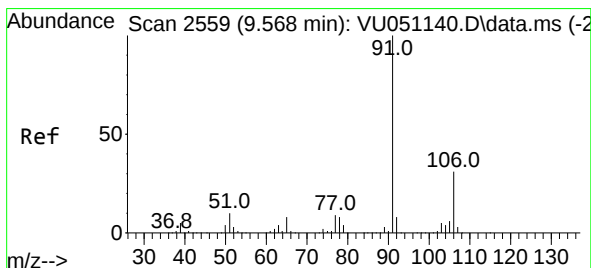
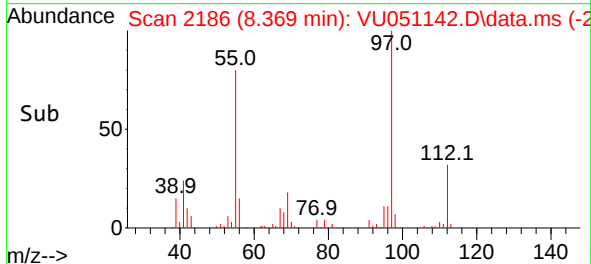
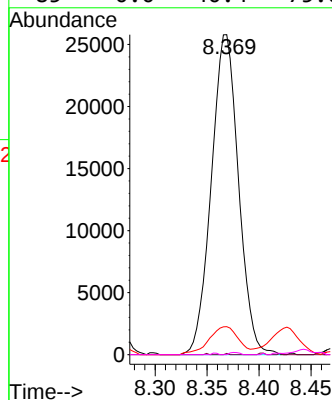
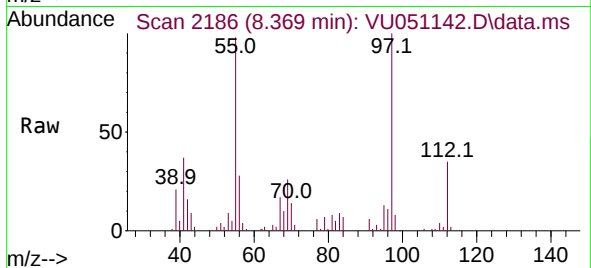




#45  
1,1,2-Trichloroethane  
Concen: 12.500 ug/L  
RT: 8.369 min Scan# 2195  
Delta R.T. -0.029 min  
Lab File: VU051142.D  
Acq: 05 Oct 2022 21:55

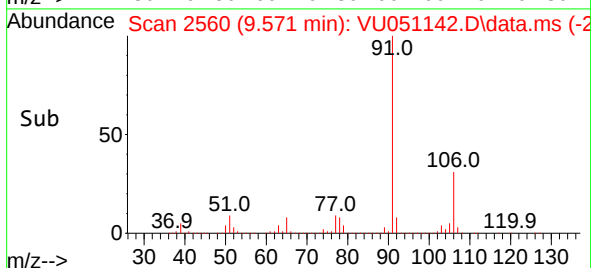
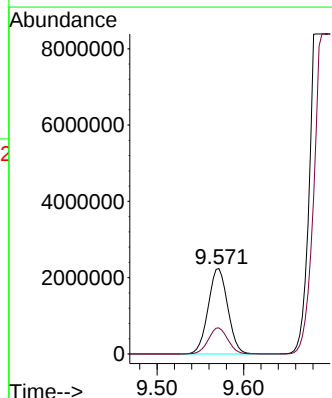
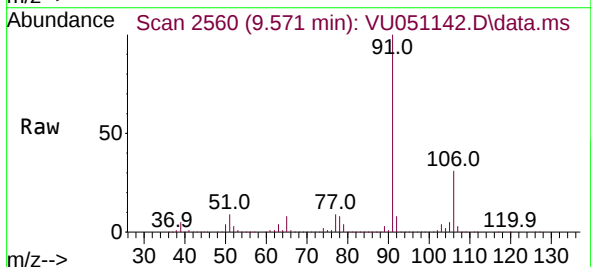
Instrument :  
MSVOA\_U  
ClientSampleId :  
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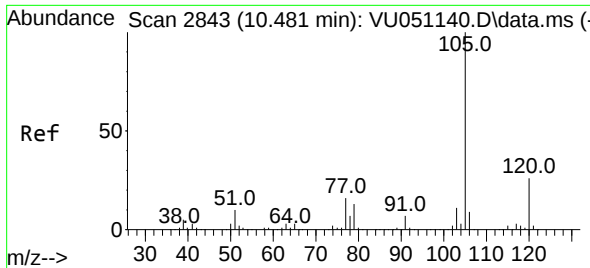
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|----------|-------|-------|--------|
| Tgt Ion: | 97    | Resp: | 46971  |
| Ion      | Ratio | Lower | Upper  |
| 97       | 100   |       |        |
| 99       | 0.4   | 44.4  | 82.4#  |
| 83       | 8.8   | 61.7  | 114.5# |
| 85       | 0.0   | 40.4  | 75.0#  |



#52  
Ethylbenzene  
Concen: 240.435 ug/L  
RT: 9.571 min Scan# 2560  
Delta R.T. 0.003 min  
Lab File: VU051142.D  
Acq: 05 Oct 2022 21:55

|          |       |       |         |
|----------|-------|-------|---------|
| Tgt Ion: | 91    | Resp: | 3514277 |
| Ion      | Ratio | Lower | Upper   |
| 91       | 100   |       |         |
| 106      | 30.6  | 21.7  | 40.3    |

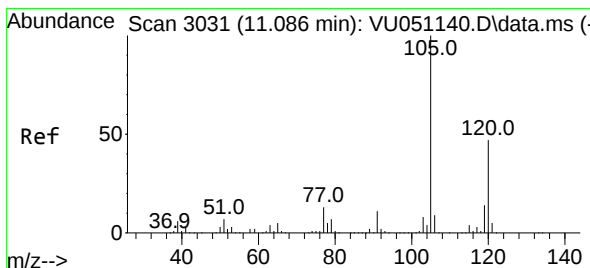
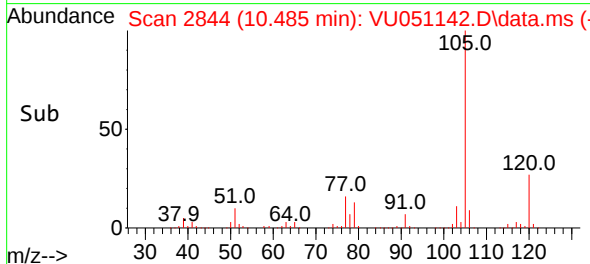
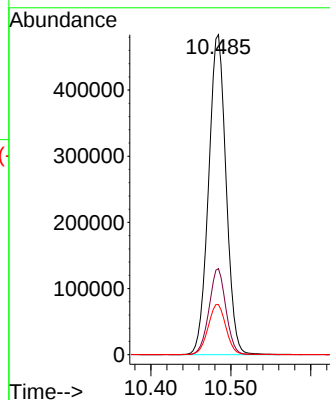
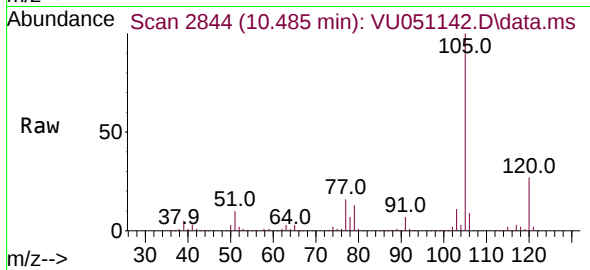




#61  
Isopropylbenzene  
Concen: 49.159 ug/L  
RT: 10.485 min Scan# 2843  
Delta R.T. 0.003 min  
Lab File: VU051142.D  
Acq: 05 Oct 2022 21:55

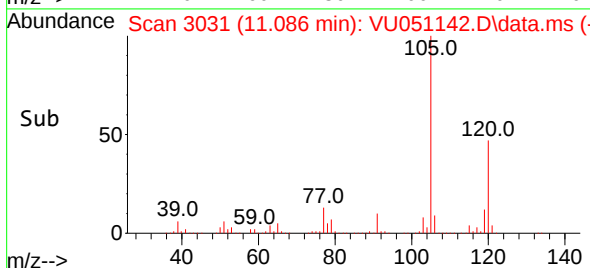
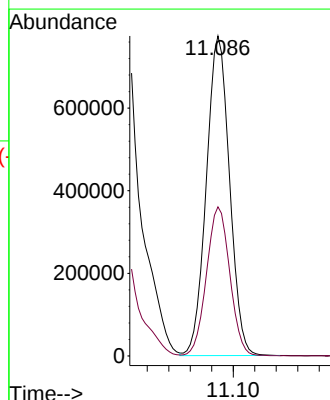
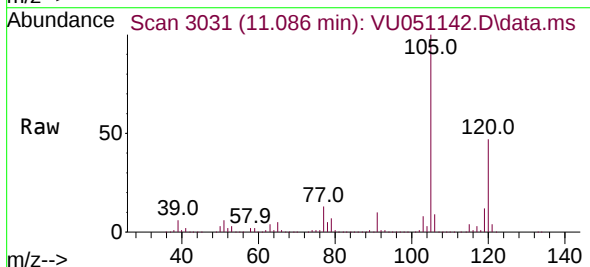
Instrument :  
MSVOA\_U  
ClientSampleId :  
EXZ59

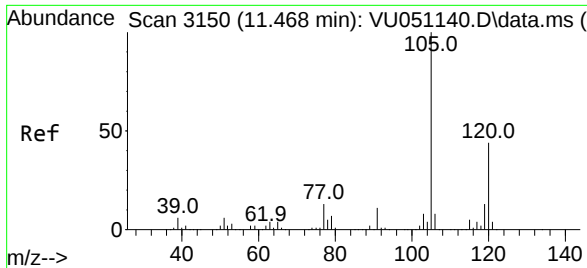
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Ion Ratio Lower Upper  
105 100  
120 26.0 21.1 31.7  
77 15.9 12.8 19.2



#62  
1,3,5-Trimethylbenzene  
Concen: 94.594 ug/L  
RT: 11.086 min Scan# 3031  
Delta R.T. 0.000 min  
Lab File: VU051142.D  
Acq: 05 Oct 2022 21:55

Tgt Ion:105 Resp: 1158264  
Ion Ratio Lower Upper  
105 100  
120 46.8 37.8 56.8

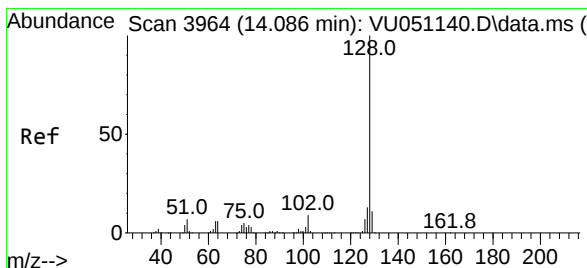
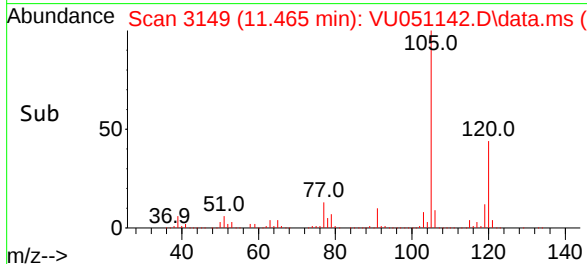
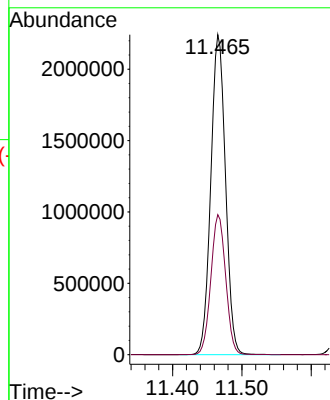
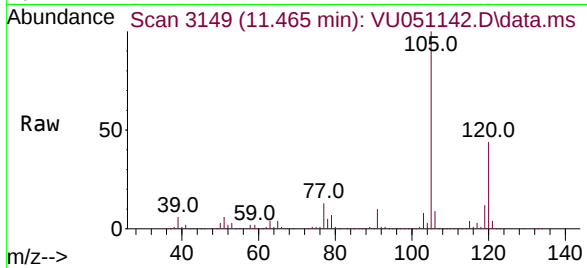




#63  
1,2,4-Trimethylbenzene  
Concen: 267.766 ug/L  
RT: 11.465 min Scan# 3150  
Delta R.T. -0.003 min  
Lab File: VU051142.D  
Acq: 05 Oct 2022 21:55

Instrument :  
MSVOA\_U  
ClientSampleId :  
EXZ59

Tgt Ion:105 Resp: 3286094  
Ion Ratio Lower Upper  
105 100  
120 43.9 35.5 53.3



#71  
Naphthalene  
Concen: 15.365 ug/L  
RT: 14.086 min Scan# 3964  
Delta R.T. 0.000 min  
Lab File: VU051142.D  
Acq: 05 Oct 2022 21:55

Tgt Ion:128 Resp: 235548  
Ion Ratio Lower Upper  
128 100  
127 13.7 10.7 16.1  
129 10.7 8.6 13.0

