

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN111324\  
 Data File : VN084835.D  
 Acq On : 13 Nov 2024 18:47  
 Operator : JC\MD  
 Sample : P4791-02 10X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 14 00:40:55 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 31 18:45:38 2024  
 Response via : Initial Calibration

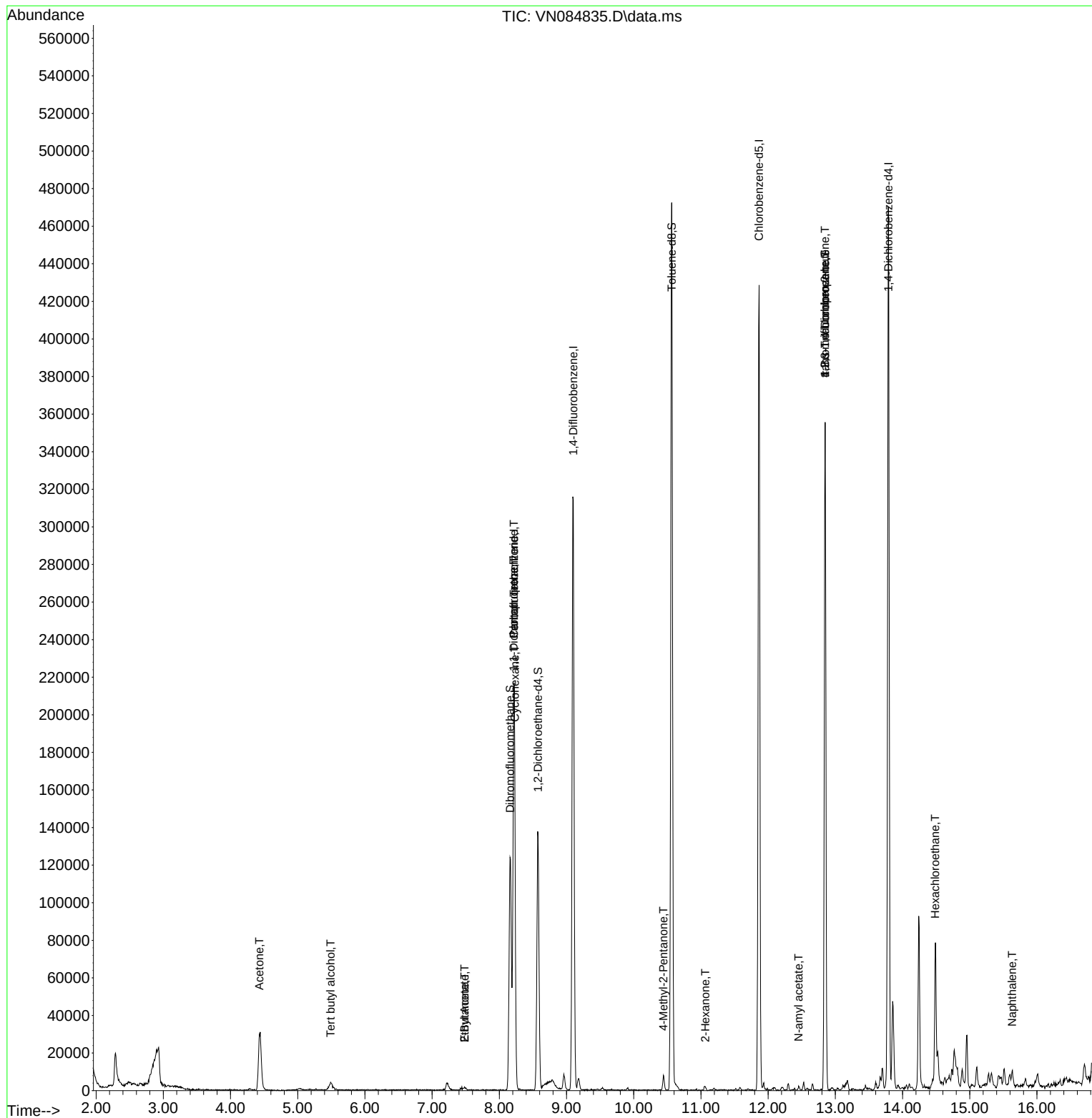
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 8.218          | 168  | 160403     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100          | 114  | 277289     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865         | 117  | 249500     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788         | 152  | 126187     | 50.000    | ug/l   | 0.00     |
|                               |                |      |            |           |        |          |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577          | 65   | 114257     | 49.318    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 98.640%   |        |          |
| 35) Dibromofluoromethane      | 8.159          | 113  | 92543      | 49.306    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 98.620%   |        |          |
| 50) Toluene-d8                | 10.565         | 98   | 329395     | 47.642    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 95.280%   |        |          |
| 62) 4-Bromofluorobenzene      | 12.847         | 95   | 125282     | 48.484    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = | 96.960%   |        |          |
|                               |                |      |            |           |        |          |
| Target Compounds              |                |      |            |           |        | Qvalue   |
| 3) Chloromethane              | 2.359          | 50   | 669        | Below Cal |        | 94       |
| 6) Chloroethane               | 3.118          | 64   | 147        | Below Cal | #      | 45       |
| 11) Tert butyl alcohol        | 5.489          | 59   | 4482       | 14.656    | ug/l # | 73       |
| 16) Acetone                   | 4.430          | 43   | 12661      | 16.252    | ug/l   | 91       |
| 18) Methyl Acetate            | 5.018          | 43   | 1216       | Below Cal | #      | 51       |
| 25) 2-Butanone                | 7.483          | 43   | 2121       | 1.962     | ug/l # | 83       |
| 31) Cyclohexane               | 8.230          | 56   | 3297       | 1.031     | ug/l # | 45       |
| 36) 1,1-Dichloropropene       | 8.212          | 75   | 12380      | 4.756     | ug/l # | 48       |
| 37) Ethyl Acetate             | 7.483          | 43   | 2121       | 0.898     | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 8.218          | 117  | 16678      | 5.732     | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.694          | 43   | 3788       | Below Cal | #      | 56       |
| 51) 4-Methyl-2-Pentanone      | 10.441         | 43   | 5546       | 2.463     | ug/l   | 93       |
| 59) 2-Hexanone                | 11.065         | 43   | 1646       | 1.004     | ug/l   | 66       |
| 74) N-amyl acetate            | 12.453         | 43   | 1435       | 0.381     | ug/l # | 45       |
| 76) 1,2,3-Trichloropropane    | 12.847         | 75   | 64781      | 25.682    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847         | 75   | 64781      | 60.928    | ug/l # | 11       |
| 90) Hexachloroethane          | 14.482         | 117  | 369        | 0.235     | ug/l # | 15       |
| 95) Naphthalene               | 15.629         | 128  | 1687       | 0.231     | ug/l # | 74       |
| -----                         |                |      |            |           |        |          |

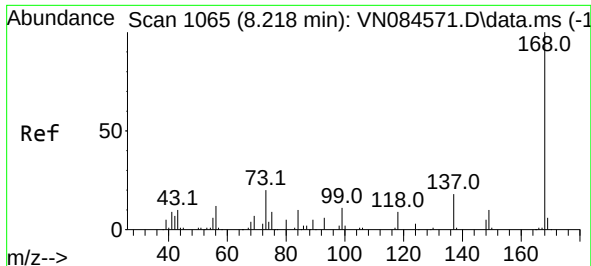
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 23 Sample Multiplier: 1

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MSVOA\_N  
ClientSampleId :

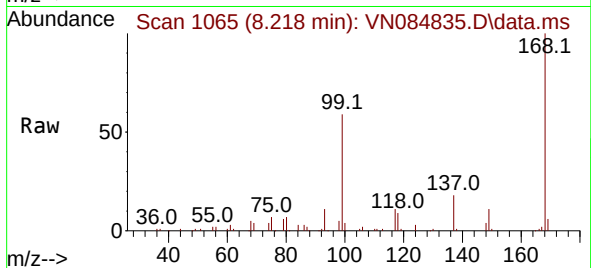
Quant Time: Nov 14 00:40:55 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N103024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 31 18:45:38 2024  
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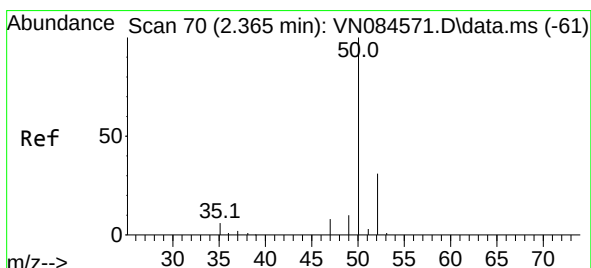
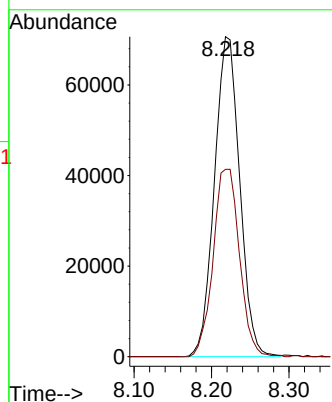
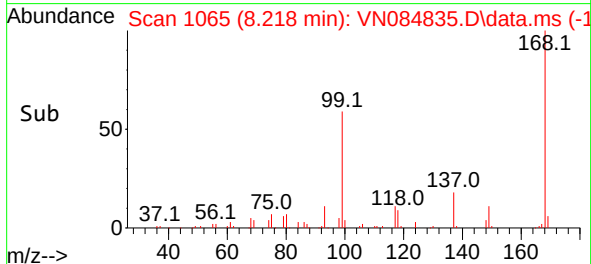


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.006 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

Instrument :  
MSVOA\_N  
ClientSampleId :

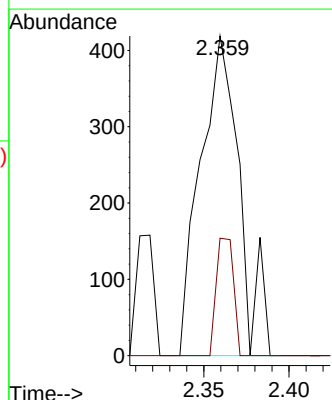
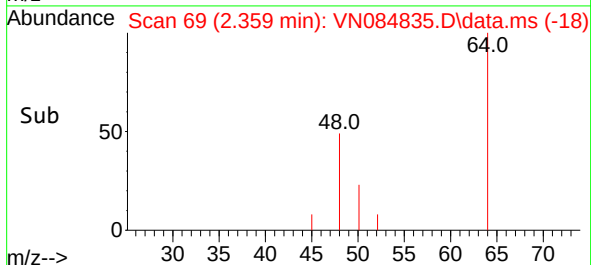
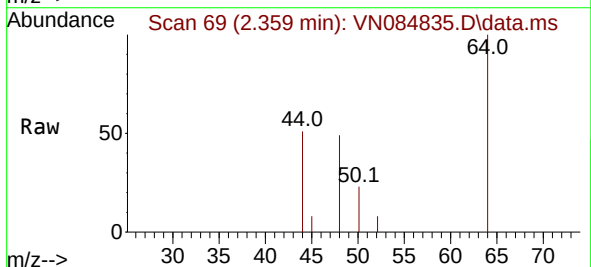


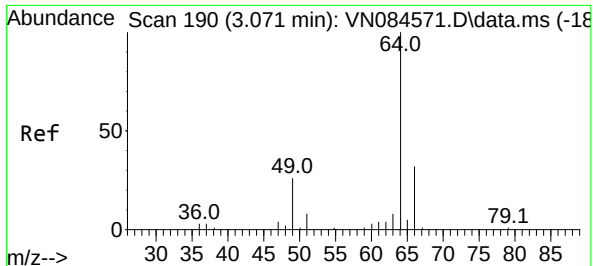
Tgt Ion:168 Resp: 160403  
Ion Ratio Lower Upper  
168 100  
99 58.5 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.359 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

Tgt Ion: 50 Resp: 669  
Ion Ratio Lower Upper  
50 100  
52 36.8 26.8 40.2

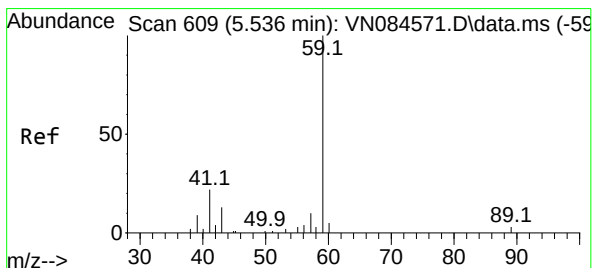
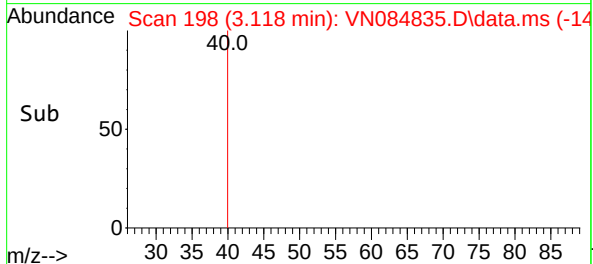
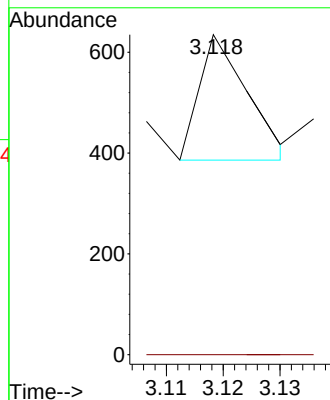
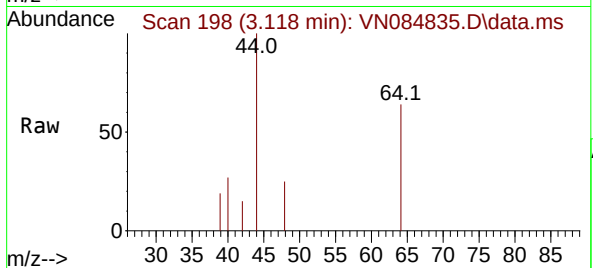




#6  
Chloroethane  
Concen: Below Cal  
RT: 3.118 min Scan# 190  
Delta R.T. 0.000 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

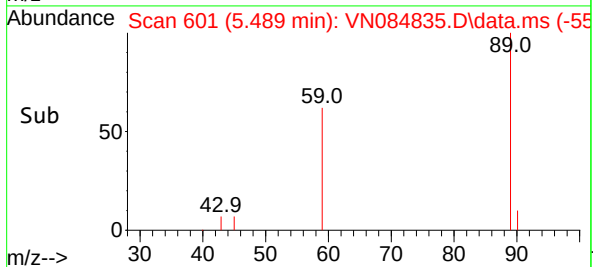
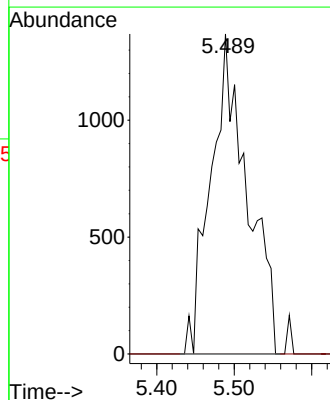
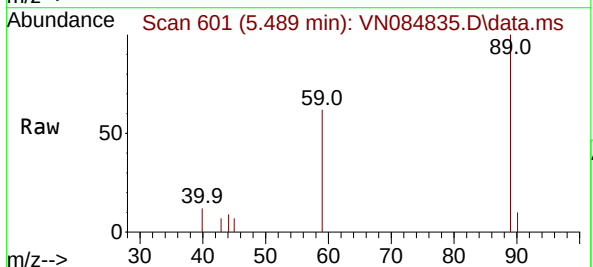
Instrument :  
MSVOA\_N  
ClientSampleId :

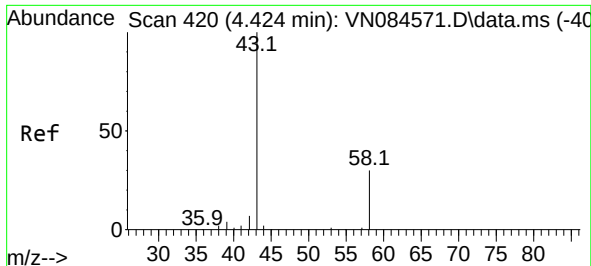
Tgt Ion: 64 Resp: 147  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.5 35.3#



#11  
Tert butyl alcohol  
Concen: 14.656 ug/l  
RT: 5.489 min Scan# 601  
Delta R.T. -0.035 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

Tgt Ion: 59 Resp: 4482  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#

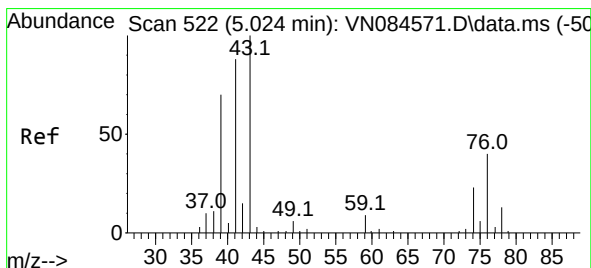
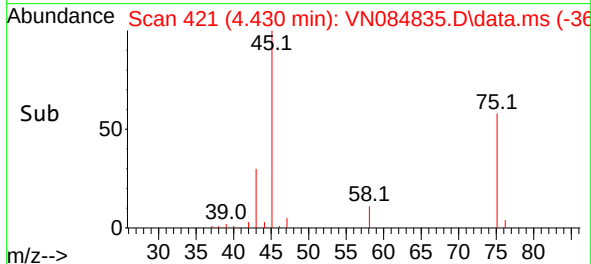
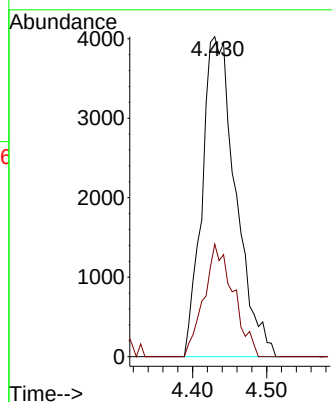
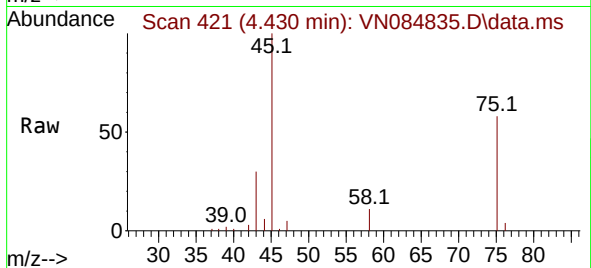




#16  
Acetone  
Concen: 16.252 ug/l  
RT: 4.430 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

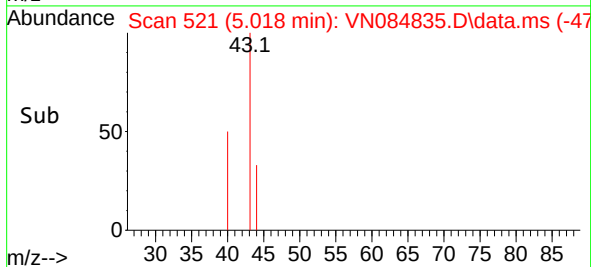
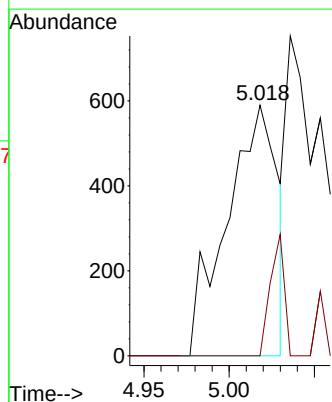
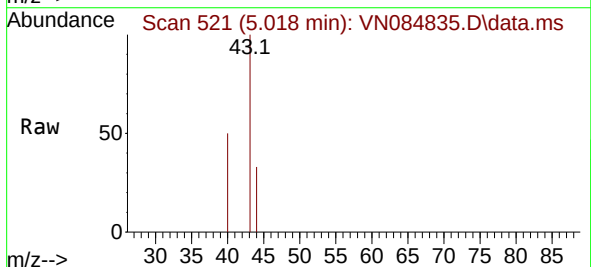
Instrument :  
MSVOA\_N  
ClientSampleId :

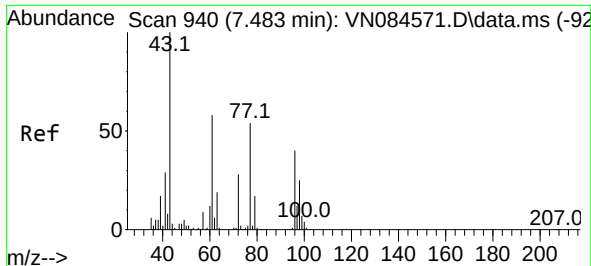
Tgt Ion: 43 Resp: 12661  
Ion Ratio Lower Upper  
43 100  
58 35.2 24.4 36.6



#18  
Methyl Acetate  
Concen: Below Cal  
RT: 5.018 min Scan# 521  
Delta R.T. 0.000 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

Tgt Ion: 43 Resp: 1216  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.2 28.8#





#25

2-Butanone

Concen: 1.962 ug/l

RT: 7.483 min Scan# 940

Delta R.T. 0.000 min

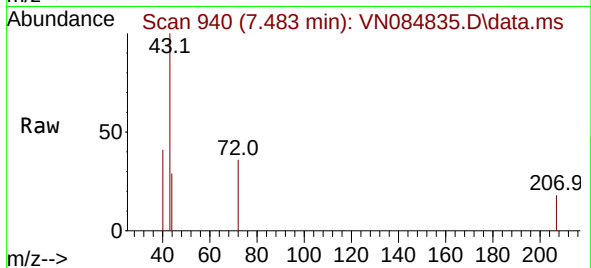
Lab File: VN084835.D

Acq: 13 Nov 2024 18:47

Instrument :

MSVOA\_N

ClientSampleId :

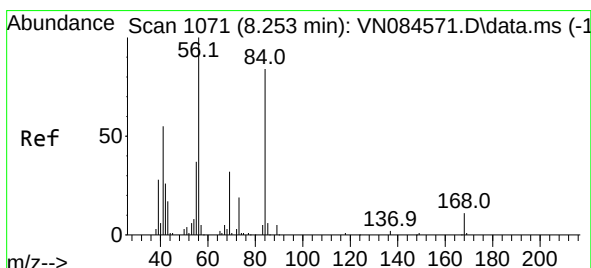
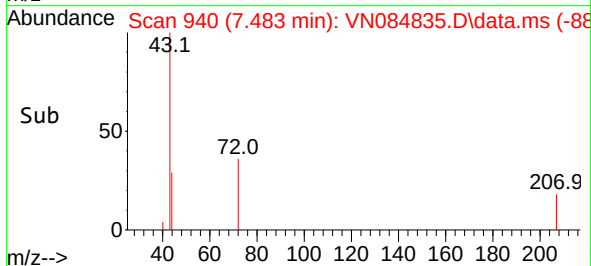
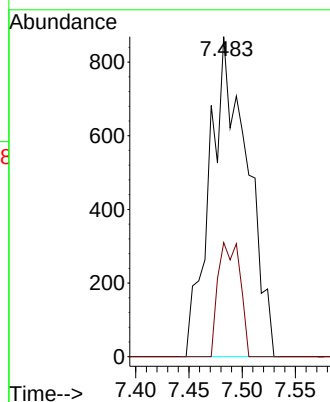


Tgt Ion: 43 Resp: 2121

Ion Ratio Lower Upper

43 100

72 35.7 21.4 32.2#



#31

Cyclohexane

Concen: 1.031 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.023 min

Lab File: VN084835.D

Acq: 13 Nov 2024 18:47

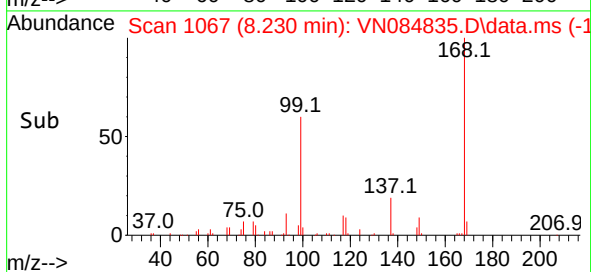
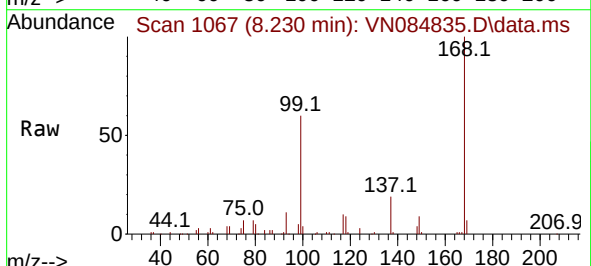
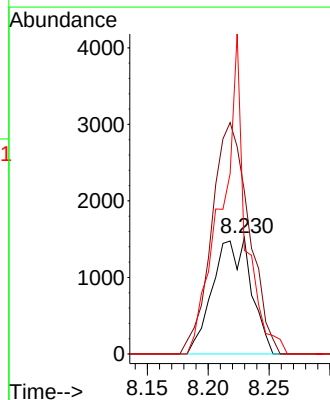
Tgt Ion: 56 Resp: 3297

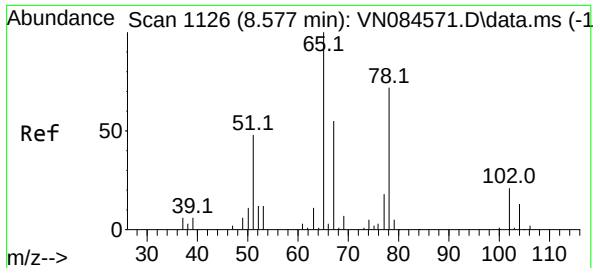
Ion Ratio Lower Upper

56 100

69 140.3 23.8 35.6#

84 89.2 68.8 103.2

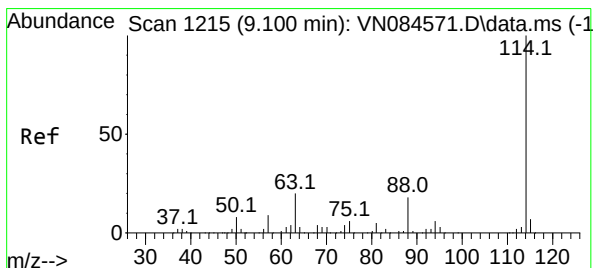
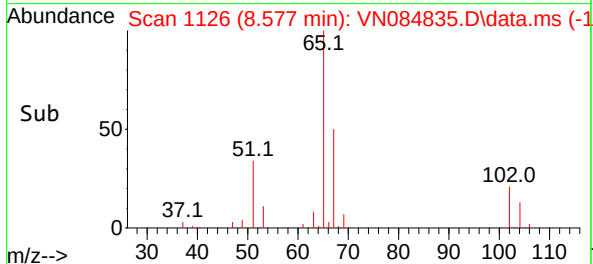
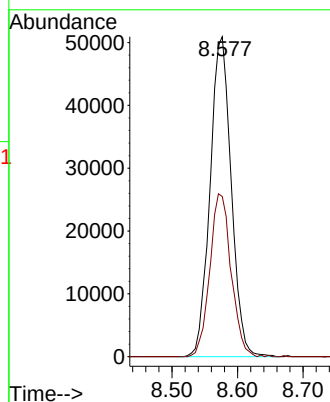
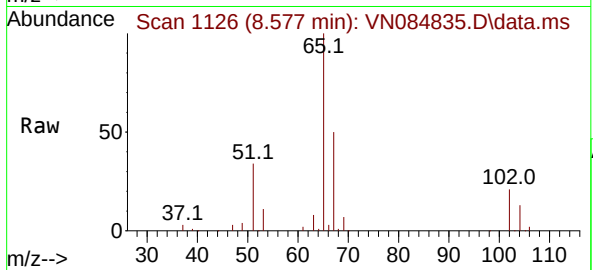




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.318 ug/l  
 RT: 8.577 min Scan# 1126  
 Delta R.T. -0.000 min  
 Lab File: VN084835.D  
 Acq: 13 Nov 2024 18:47

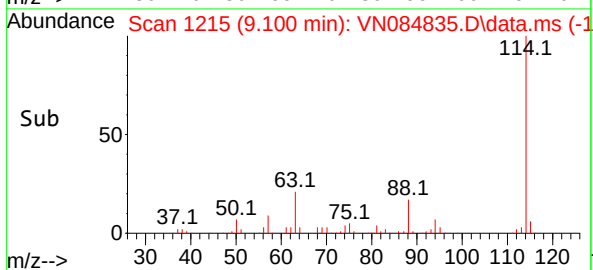
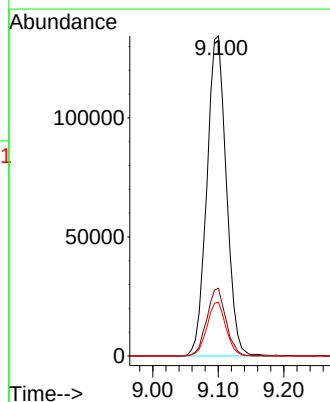
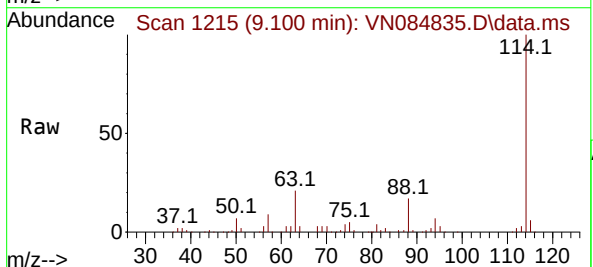
Instrument :  
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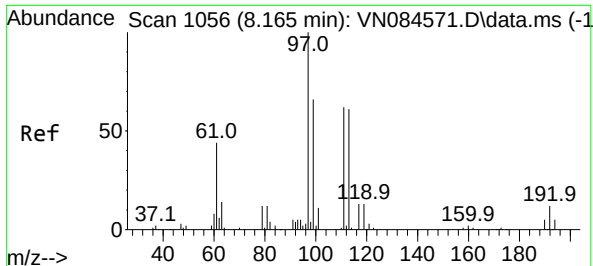
Tgt Ion: 65 Resp: 114257  
 Ion Ratio Lower Upper  
 65 100  
 67 51.1 0.0 102.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 9.100 min Scan# 1215  
 Delta R.T. 0.000 min  
 Lab File: VN084835.D  
 Acq: 13 Nov 2024 18:47

Tgt Ion: 114 Resp: 277289  
 Ion Ratio Lower Upper  
 114 100  
 63 21.2 0.0 43.8  
 88 16.8 0.0 31.6





#35

Dibromofluoromethane

Concen: 49.306 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. -0.006 min

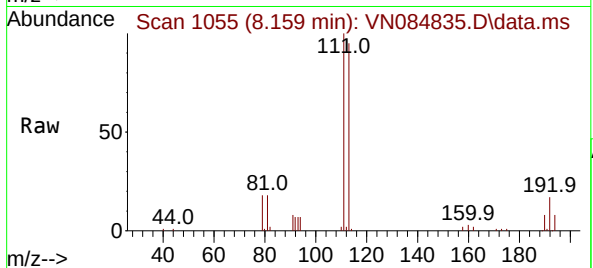
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Instrument :

MSVOA\_N

ClientSampleId :



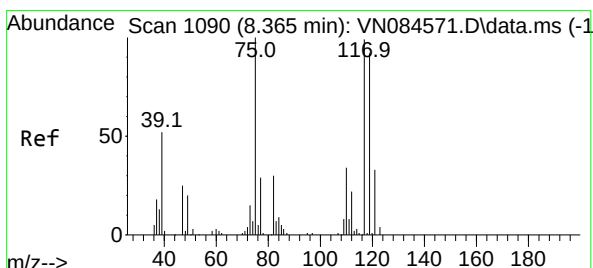
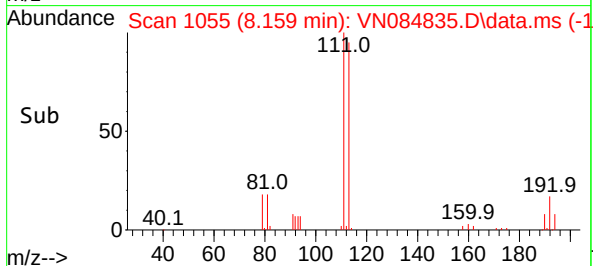
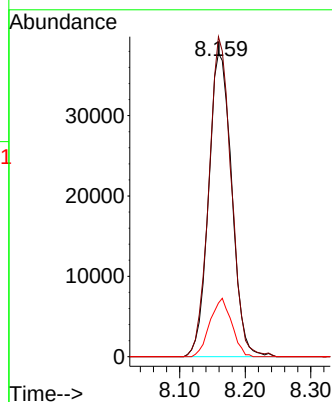
Tgt Ion:113 Resp: 92543

Ion Ratio Lower Upper

113 100

111 102.1 83.3 124.9

192 18.1 13.5 20.3



#36

1,1-Dichloropropene

Concen: 4.756 ug/l

RT: 8.212 min Scan# 1064

Delta R.T. -0.159 min

Lab File: VN084835.D

Acq: 13 Nov 2024 18:47

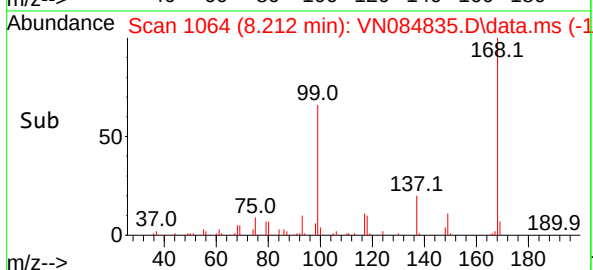
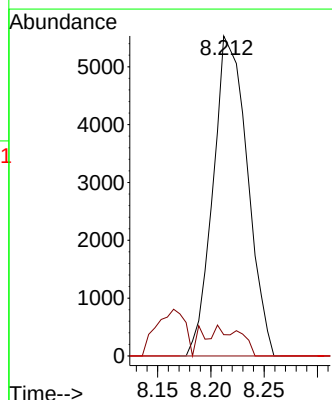
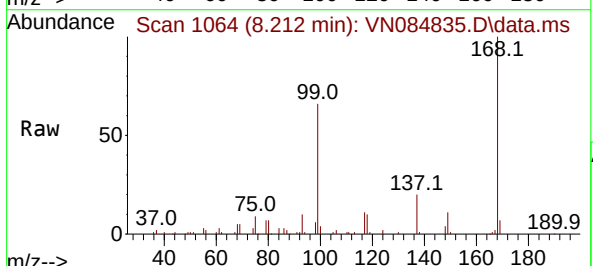
Tgt Ion: 75 Resp: 12380

Ion Ratio Lower Upper

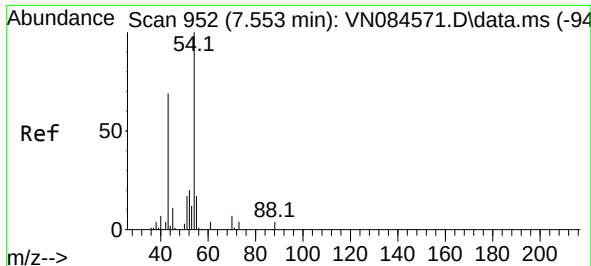
75 100

110 6.8 16.9 50.7#

77 0.0 24.7 37.1#







#37

Ethyl Acetate

Concen: 0.898 ug/l

RT: 7.483 min Scan# 94

Delta R.T. -0.076 min

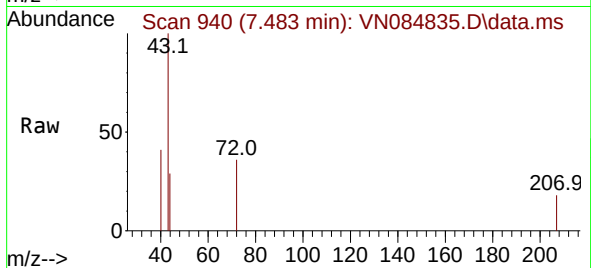
Lab File: VN084835.D

Acq: 13 Nov 2024 18:47

Instrument :

MSVOA\_N

ClientSampleId :



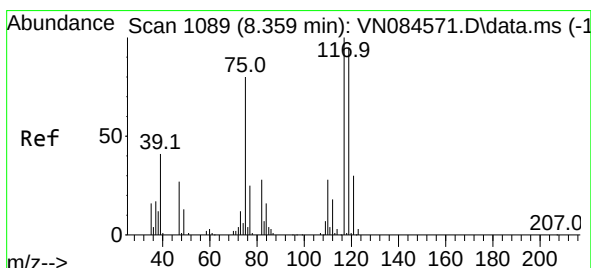
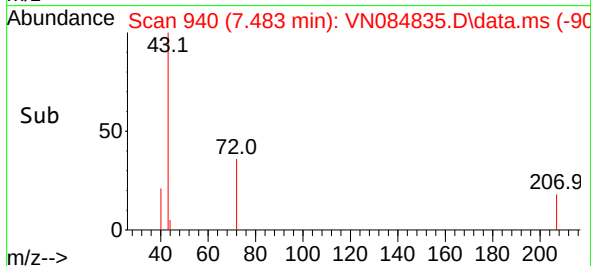
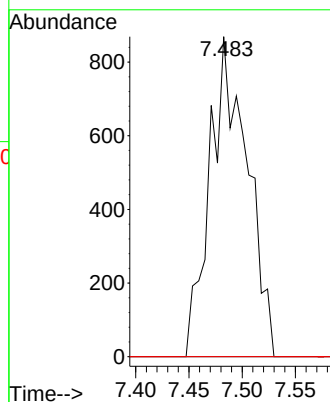
Tgt Ion: 43 Resp: 2121

Ion Ratio Lower Upper

43 100

61 0.0 10.7 16.1#

70 0.0 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 5.732 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.141 min

Lab File: VN084835.D

Acq: 13 Nov 2024 18:47

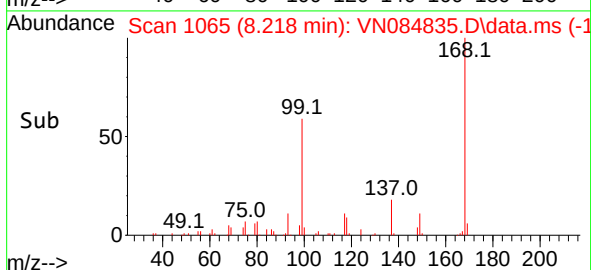
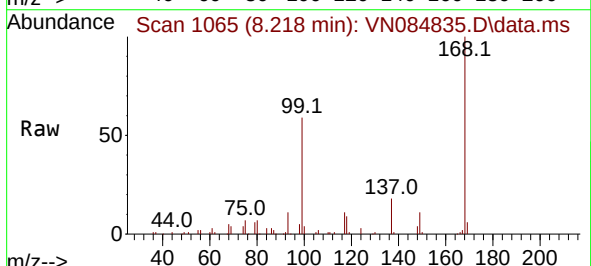
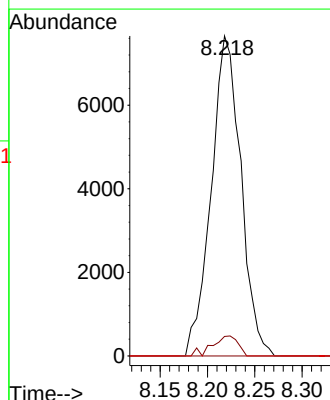
Tgt Ion: 117 Resp: 16678

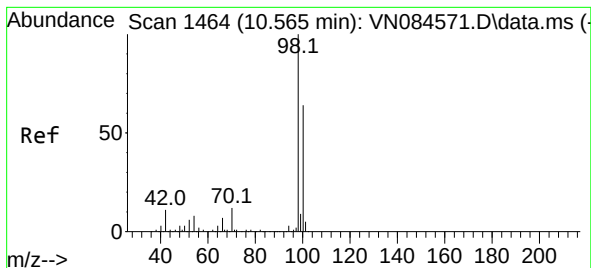
Ion Ratio Lower Upper

117 100

119 6.1 78.7 118.1#

121 0.0 24.4 36.6#

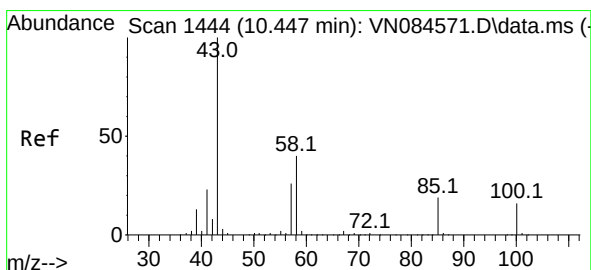
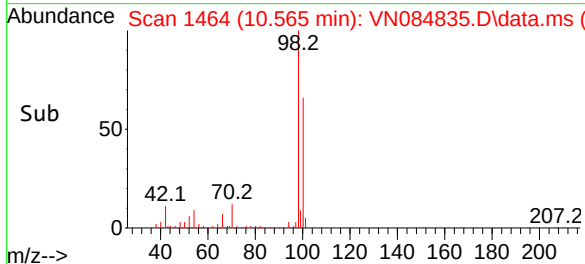
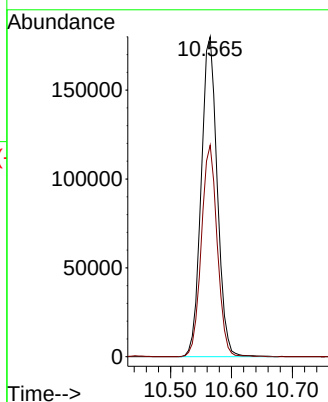
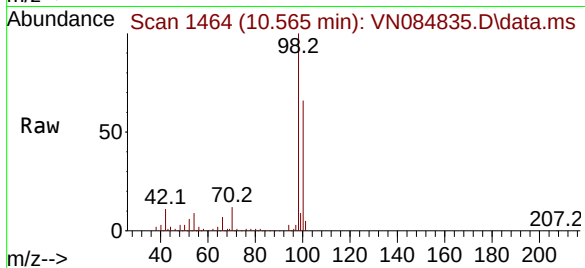




#50  
Toluene-d8  
Concen: 47.642 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

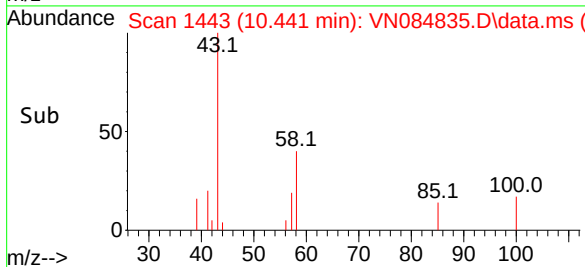
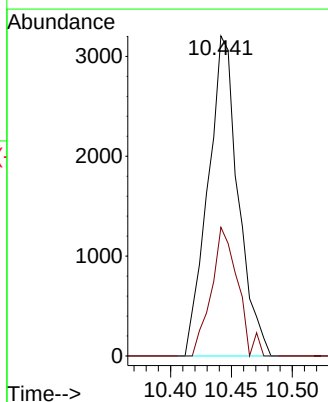
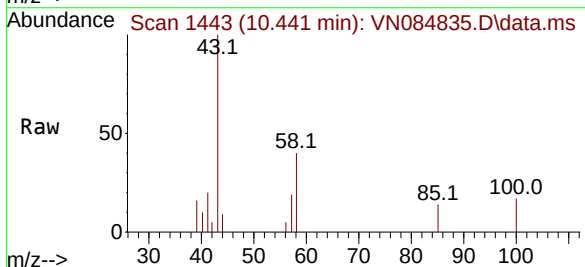
Instrument :  
MSVOA\_N  
ClientSampleId :

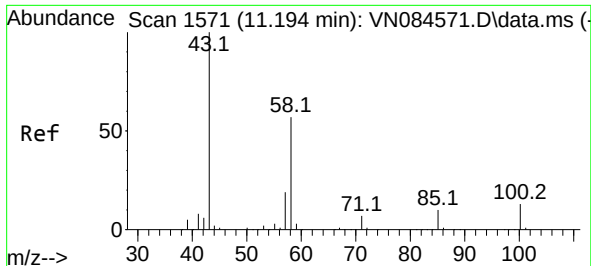
Tgt Ion: 98 Resp: 329395  
Ion Ratio Lower Upper  
98 100  
100 65.3 52.7 79.1



#51  
4-Methyl-2-Pentanone  
Concen: 2.463 ug/l  
RT: 10.441 min Scan# 1443  
Delta R.T. 0.000 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

Tgt Ion: 43 Resp: 5546  
Ion Ratio Lower Upper  
43 100  
58 35.0 31.6 47.4

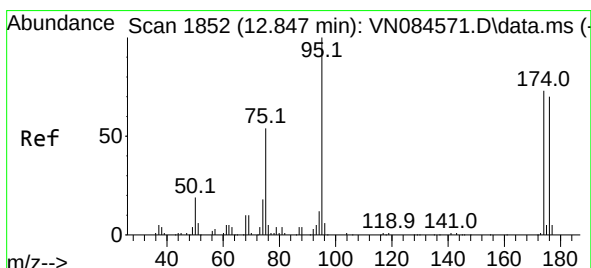
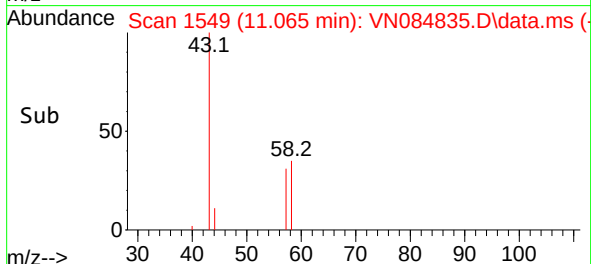
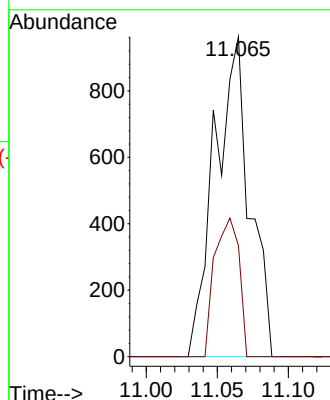
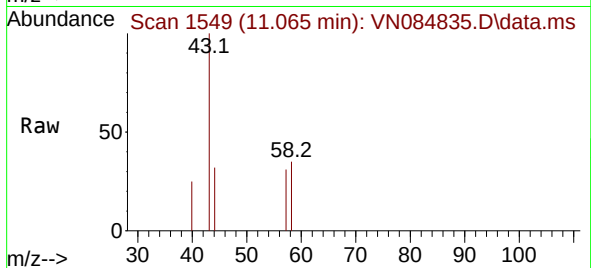




#59  
2-Hexanone  
Concen: 1.004 ug/l  
RT: 11.065 min Scan# 1549  
Delta R.T. -0.129 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

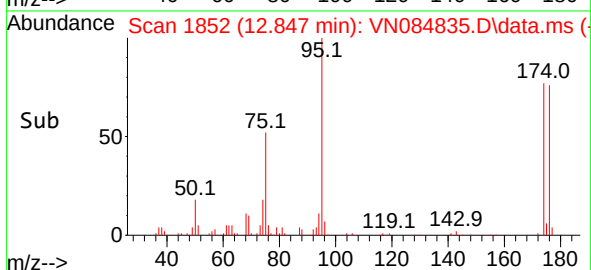
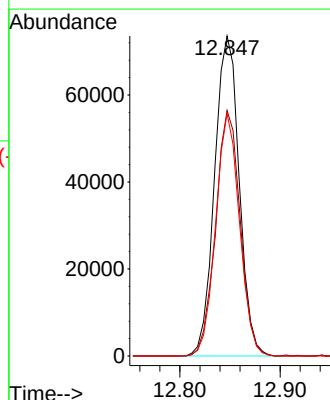
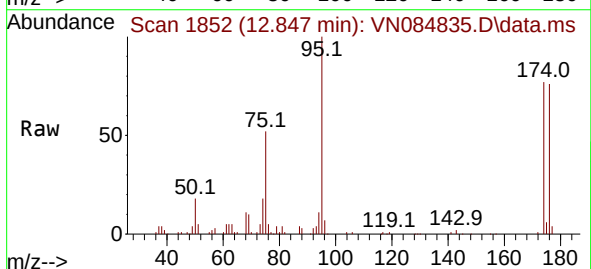
Instrument :  
MSVOA\_N  
ClientSampleId :

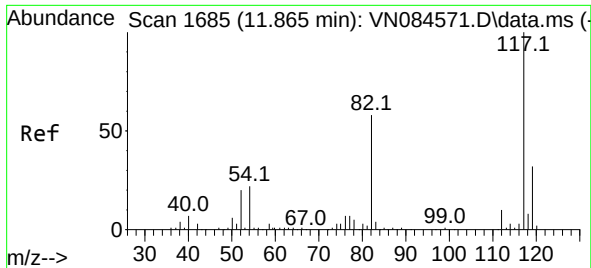
Tgt Ion: 43 Resp: 1646  
Ion Ratio Lower Upper  
43 100  
58 30.3 27.3 81.8



#62  
4-Bromofluorobenzene  
Concen: 48.484 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

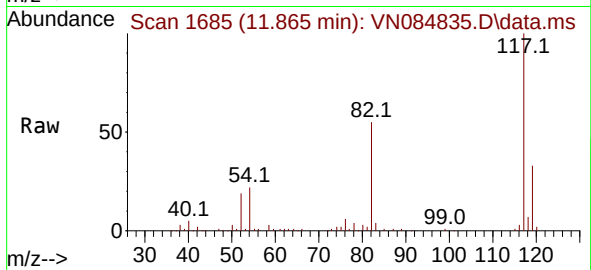
Tgt Ion: 95 Resp: 125282  
Ion Ratio Lower Upper  
95 100  
174 76.2 0.0 145.2  
176 73.4 0.0 140.0



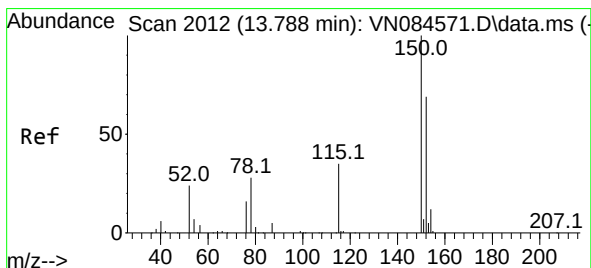
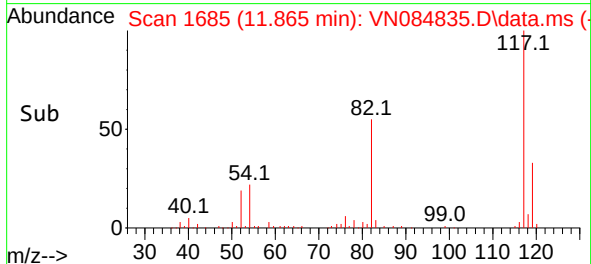
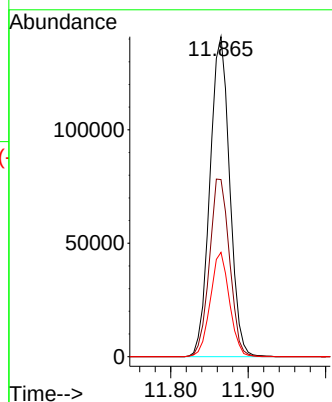


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

Instrument :  
MSVOA\_N  
ClientSampleId :

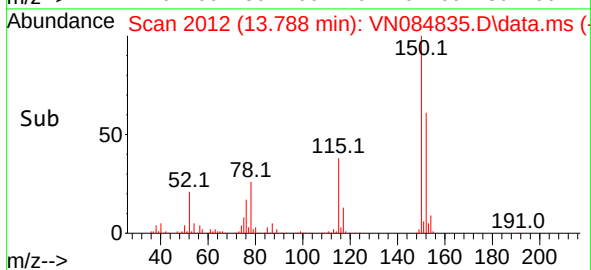
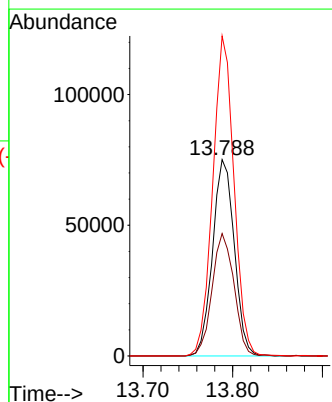
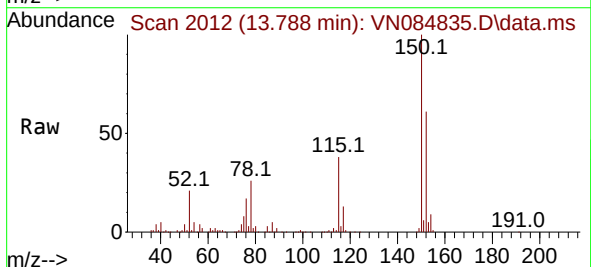


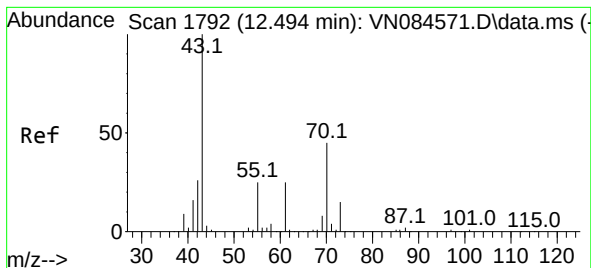
Tgt Ion:117 Resp: 249500  
Ion Ratio Lower Upper  
117 100  
82 55.3 47.2 70.8  
119 32.6 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.788 min Scan# 2012  
Delta R.T. 0.000 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

Tgt Ion:152 Resp: 126187  
Ion Ratio Lower Upper  
152 100  
115 63.0 31.3 93.9  
150 159.2 0.0 349.8





#74

N-amy1 acetate

Concen: 0.381 ug/l

RT: 12.453 min Scan# 1

Delta R.T. -0.041 min

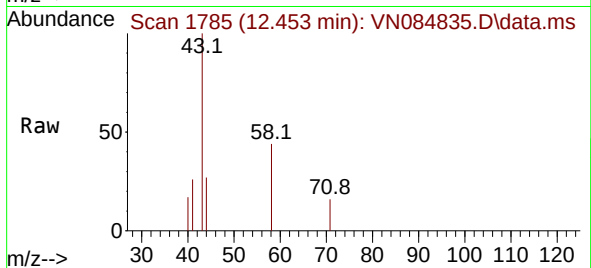
Lab File: VN084835.D

Acq: 13 Nov 2024 18:47

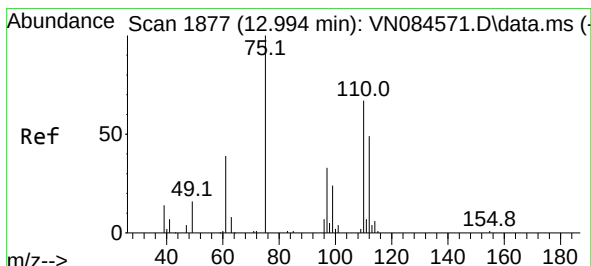
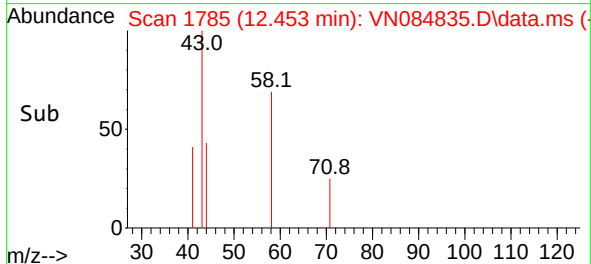
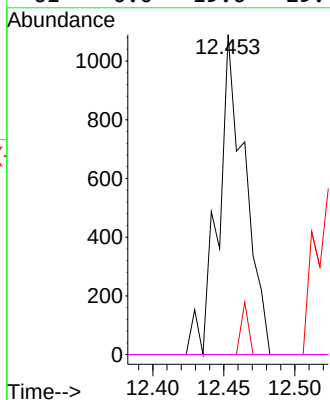
Instrument :

MSVOA\_N

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1435  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 70       | 0.0   | 34.4  | 51.6# |
| 55       | 4.4   | 19.6  | 29.4# |
| 61       | 0.0   | 19.6  | 29.4# |



#76

1,2,3-Trichloropropane

Concen: 25.682 ug/l

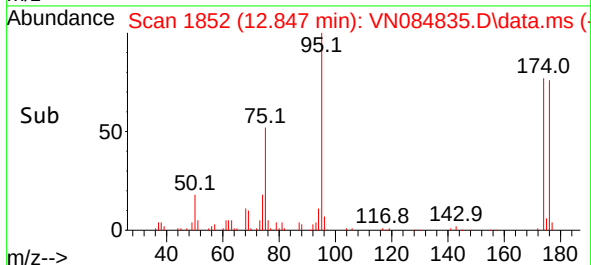
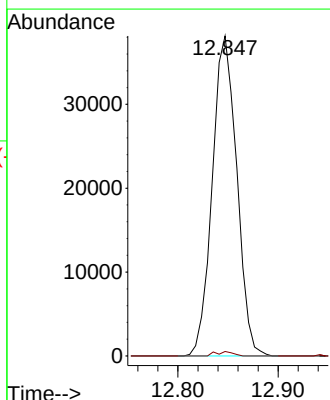
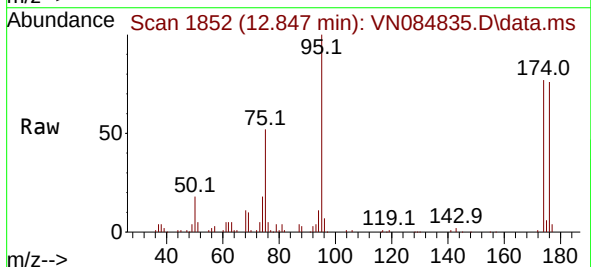
RT: 12.847 min Scan# 1852

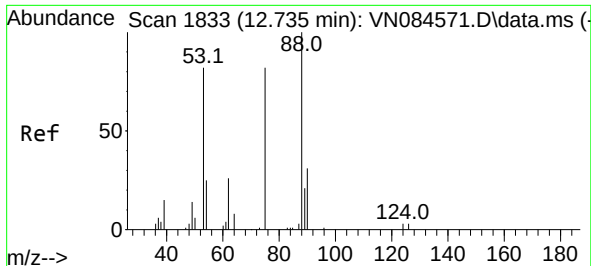
Delta R.T. -0.141 min

Lab File: VN084835.D

Acq: 13 Nov 2024 18:47

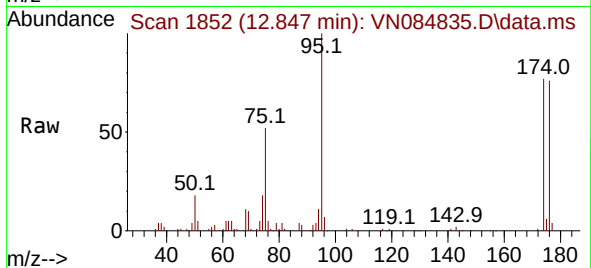
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 64781  |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 77       | 1.0   | 96.9  | 290.7# |



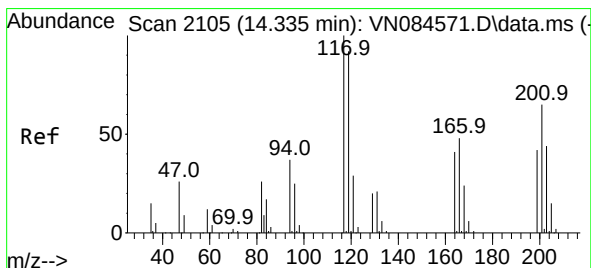
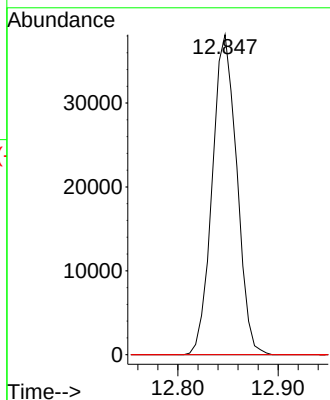
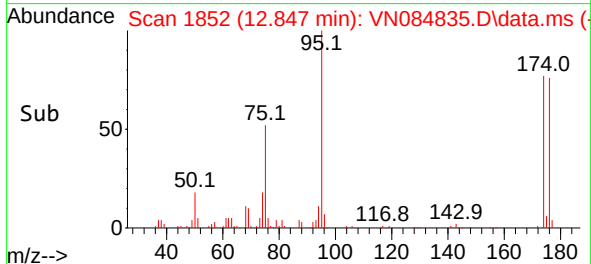


#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.928 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.112 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

Instrument :  
MSVOA\_N  
ClientSampleId :

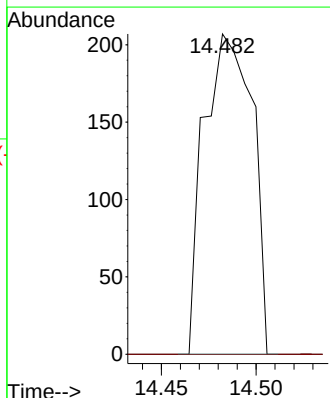
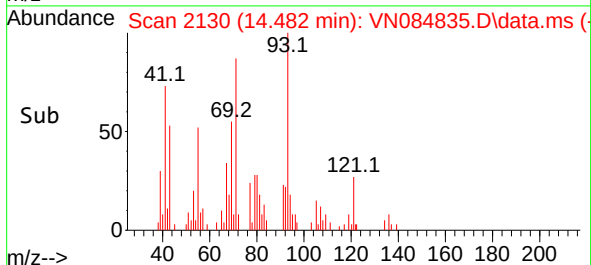
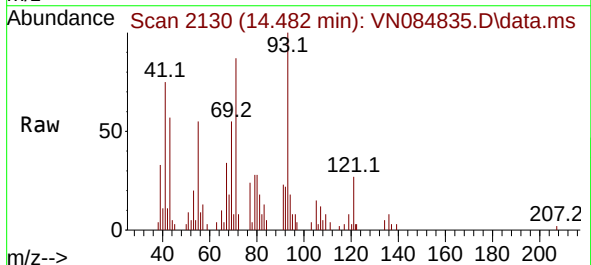


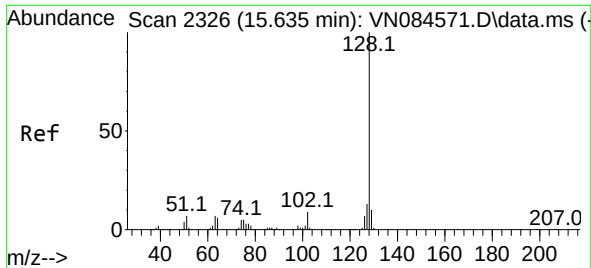
Tgt Ion: 75 Resp: 64781  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.0 117.0#  
89 0.0 35.5 53.3#



#90  
Hexachloroethane  
Concen: 0.235 ug/l  
RT: 14.482 min Scan# 2130  
Delta R.T. 0.153 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

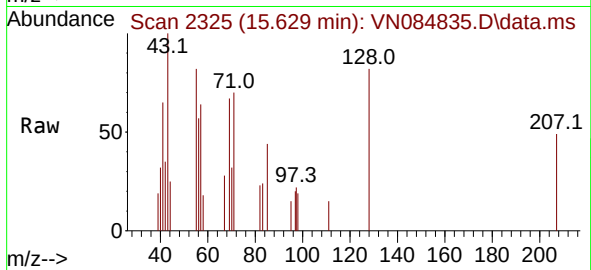
Tgt Ion: 117 Resp: 369  
Ion Ratio Lower Upper  
117 100  
201 0.0 34.4 103.2#





#95  
Naphthalene  
Concen: 0.231 ug/l  
RT: 15.629 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VN084835.D  
Acq: 13 Nov 2024 18:47

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion:128 Resp: 1687  
Ion Ratio Lower Upper  
128 100  
127 3.3 10.5 15.7#  
129 0.0 8.7 13.1#

