

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN112224\  
 Data File : VN085013.D  
 Acq On : 22 Nov 2024 17:05  
 Operator : JC\MD  
 Sample : VN1122WBL01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Nov 23 03:23:17 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112224W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Nov 23 02:54:10 2024  
 Response via : Initial Calibration

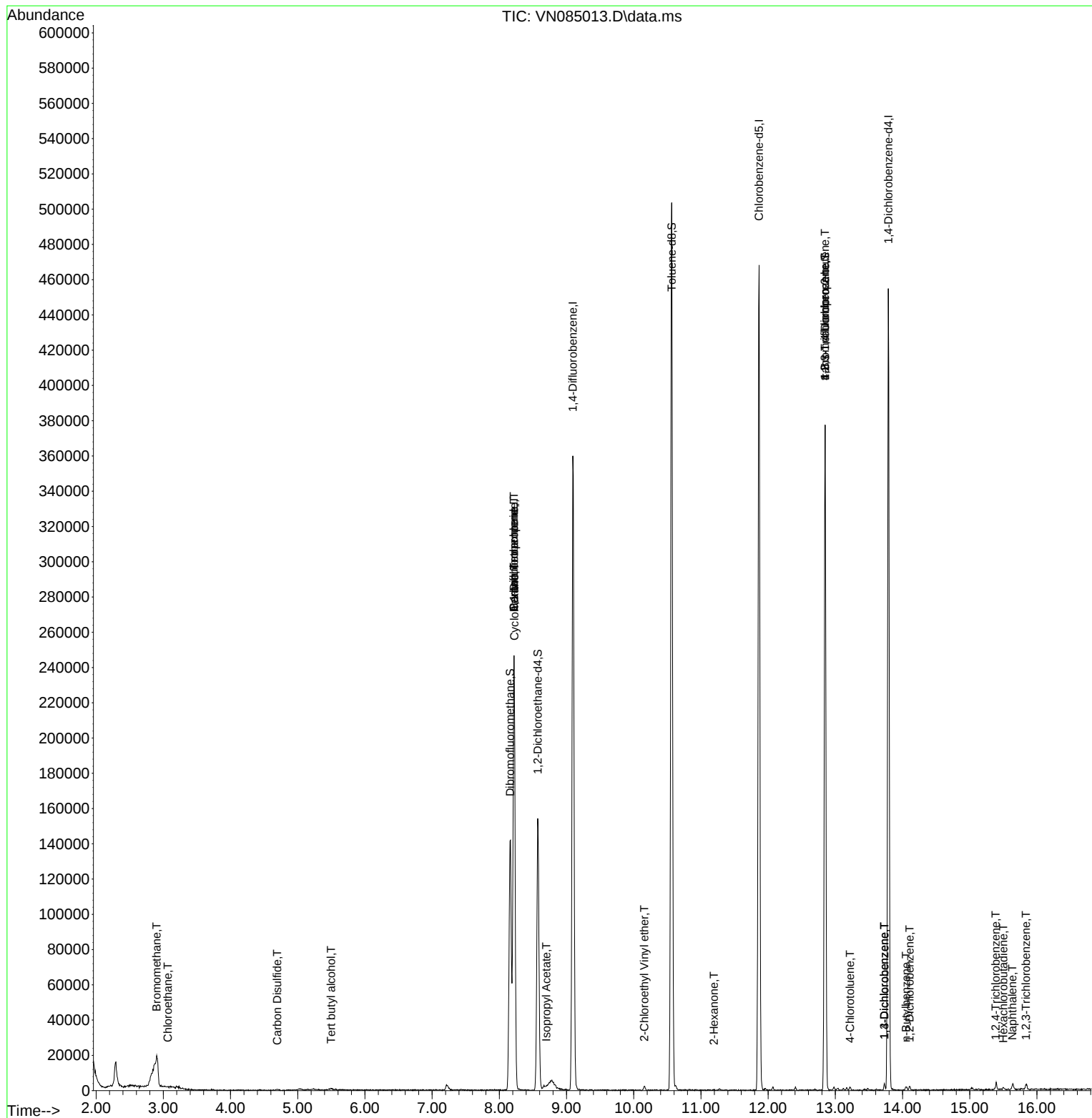
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.218  | 168            | 171853   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.094  | 114            | 308794   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117            | 267922   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152            | 119226   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.571  | 65             | 127602   | 52.127     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 125 | Recovery | = 104.260% |        |          |
| 35) Dibromofluoromethane      | 8.159  | 113            | 103079   | 49.500     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 99.000%  |        |          |
| 50) Toluene-d8                | 10.565 | 98             | 349325   | 46.809     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 86 - 113 | Recovery | = 93.620%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95             | 133284   | 47.757     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 77 - 121 | Recovery | = 95.520%  |        |          |
| Target Compounds              |        |                |          |            |        | Qvalue   |
| 5) Bromomethane               | 2.901  | 94             | 386      | 0.340      | ug/l   | 91       |
| 6) Chloroethane               | 3.065  | 64             | 350      | 0.256      | ug/l # | 44       |
| 11) Tert butyl alcohol        | 5.495  | 59             | 615      | 1.880      | ug/l # | 75       |
| 17) Carbon Disulfide          | 4.695  | 76             | 1169     | 0.217      | ug/l # | 77       |
| 18) Methyl Acetate            | 5.024  | 43             | 790      | Below Cal  | #      | 65       |
| 31) Cyclohexane               | 8.224  | 56             | 3738     | 1.146      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 8.218  | 75             | 14345    | 5.086      | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 8.218  | 117            | 19349    | 5.943      | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.700  | 43             | 2694     | 0.506      | ug/l # | 55       |
| 58) 2-Chloroethyl Vinyl ether | 10.159 | 63             | 1310     | 0.929      | ug/l # | 56       |
| 59) 2-Hexanone                | 11.194 | 43             | 412      | 0.226      | ug/l # | 41       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75             | 69224    | 31.921     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75             | 69224    | 70.467     | ug/l # | 10       |
| 82) 4-Chlorotoluene           | 13.218 | 91             | 1667     | 0.247      | ug/l   | 80       |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146            | 1210     | 0.271      | ug/l   | 96       |
| 88) 1,4-Dichlorobenzene       | 13.729 | 146            | 1210     | 0.266      | ug/l   | 94       |
| 89) n-Butylbenzene            | 14.053 | 91             | 1788     | 0.284      | ug/l   | 89       |
| 91) 1,2-Dichlorobenzene       | 14.106 | 146            | 1279     | 0.299      | ug/l   | 92       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180            | 1346     | 0.579      | ug/l   | 76       |
| 94) Hexachlorobutadiene       | 15.500 | 225            | 421      | 0.392      | ug/l # | 69       |
| 95) Naphthalene               | 15.635 | 128            | 4074     | 0.615      | ug/l # | 92       |
| 96) 1,2,3-Trichlorobenzene    | 15.835 | 180            | 1412     | 0.637      | ug/l   | 93       |

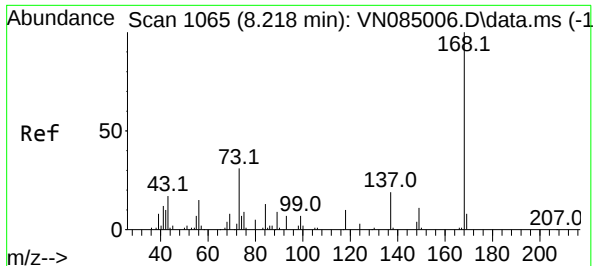
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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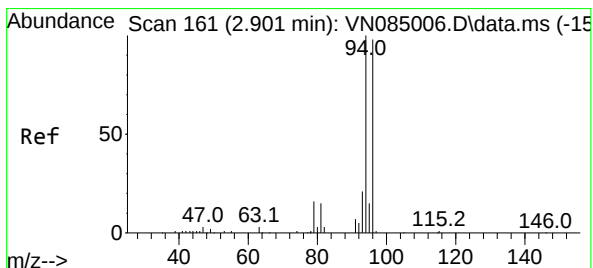
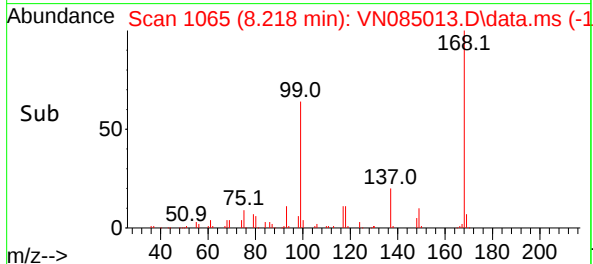
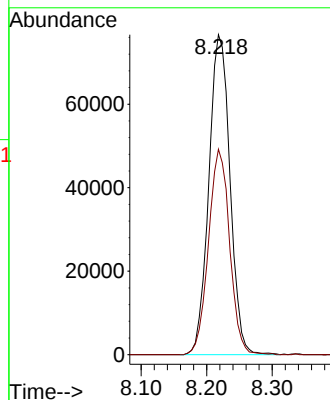
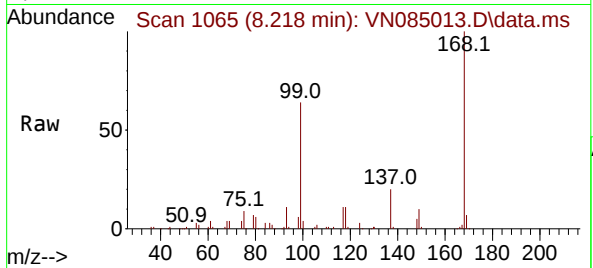




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.000 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

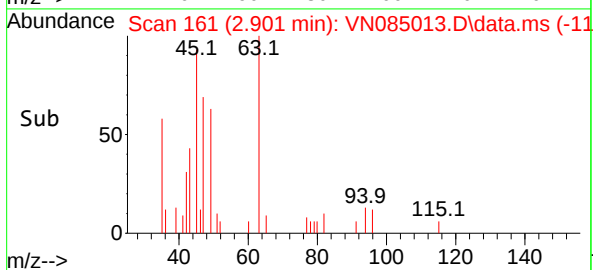
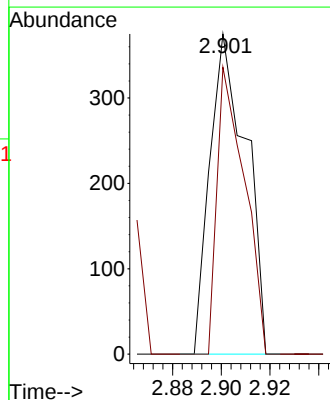
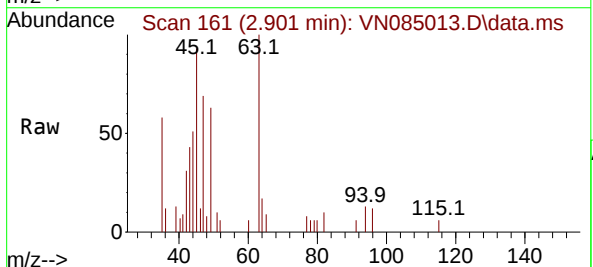
Instrument :  
MSVOA\_N  
ClientSampleId :

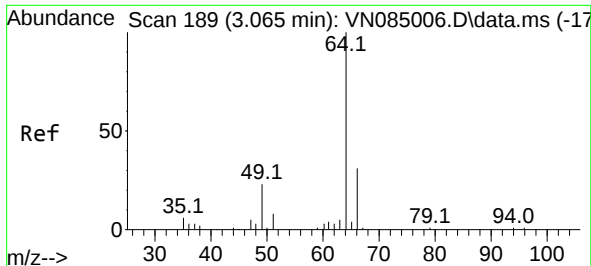
Tgt Ion:168 Resp: 171853  
Ion Ratio Lower Upper  
168 100  
99 64.2 51.2 76.8



#5  
Bromomethane  
Concen: 0.340 ug/l  
RT: 2.901 min Scan# 161  
Delta R.T. 0.000 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

Tgt Ion: 94 Resp: 386  
Ion Ratio Lower Upper  
94 100  
96 89.6 78.7 118.1

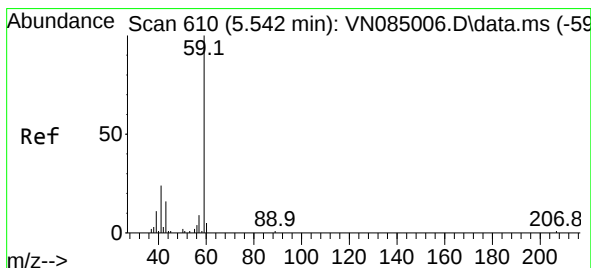
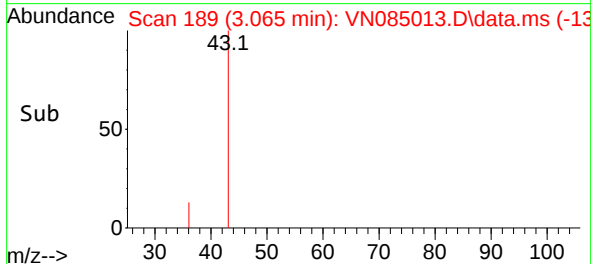
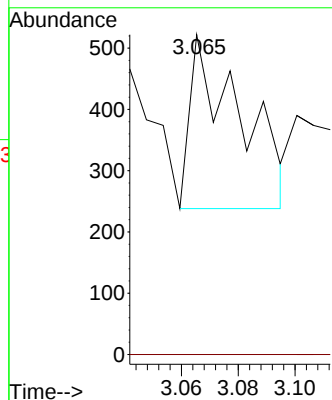
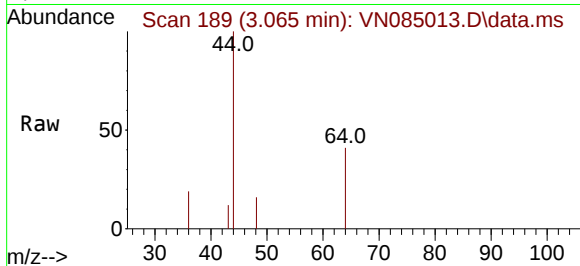




#6  
Chloroethane  
Concen: 0.256 ug/l  
RT: 3.065 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

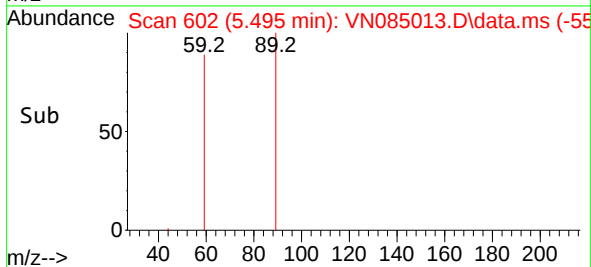
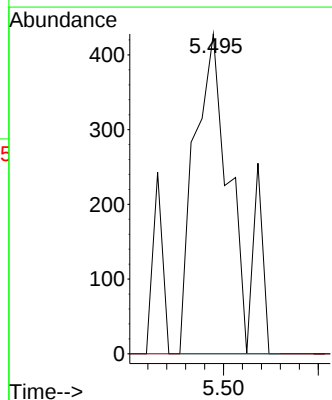
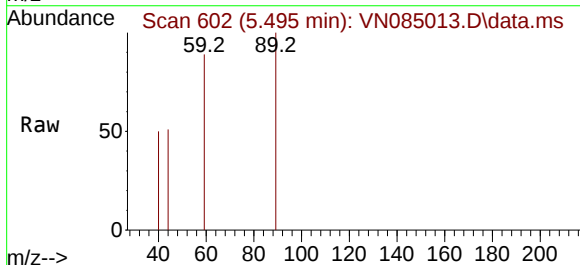
Instrument :  
MSVOA\_N  
ClientSampleId :

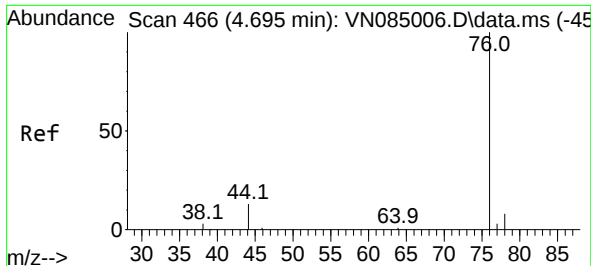
Tgt Ion: 64 Resp: 350  
Ion Ratio Lower Upper  
64 100  
66 0.0 24.4 36.6#



#11  
Tert butyl alcohol  
Concen: 1.880 ug/l  
RT: 5.495 min Scan# 602  
Delta R.T. -0.047 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

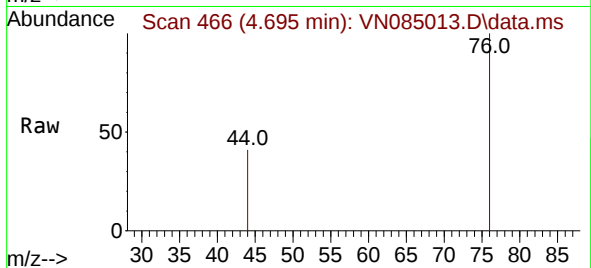
Tgt Ion: 59 Resp: 615  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.0#



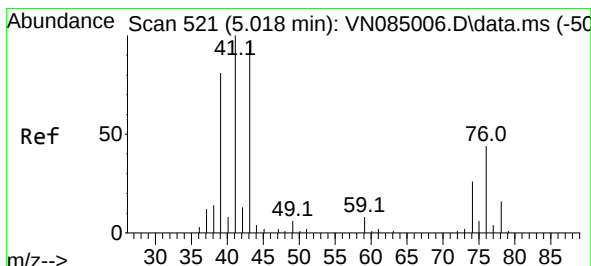
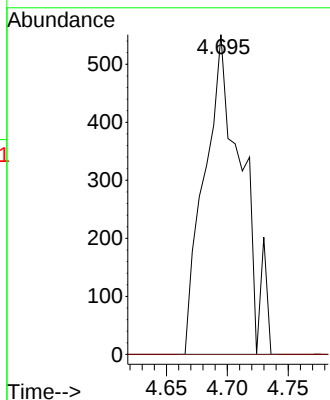
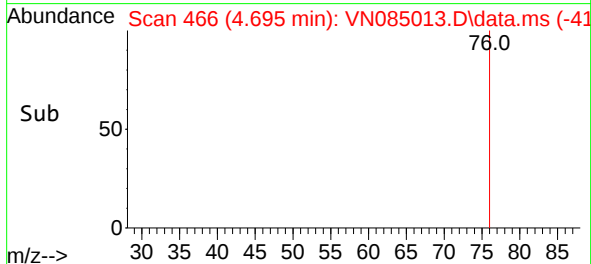


#17  
Carbon Disulfide  
Concen: 0.217 ug/l  
RT: 4.695 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

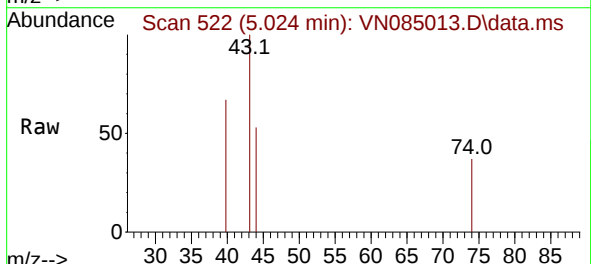
Instrument :  
MSVOA\_N  
ClientSampleId :



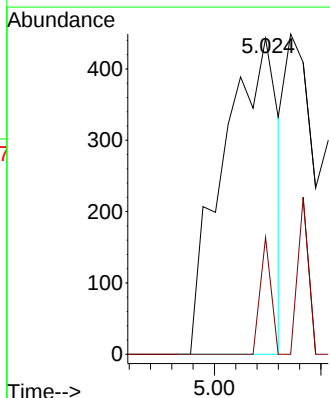
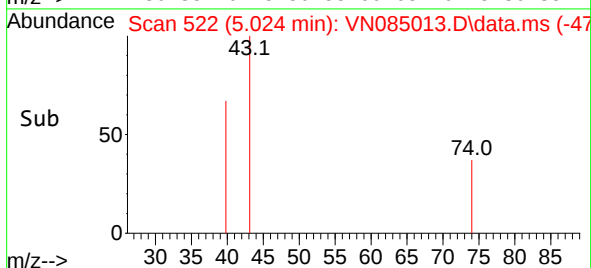
Tgt Ion: 76 Resp: 1169  
Ion Ratio Lower Upper  
76 100  
78 0.0 6.5 9.7#

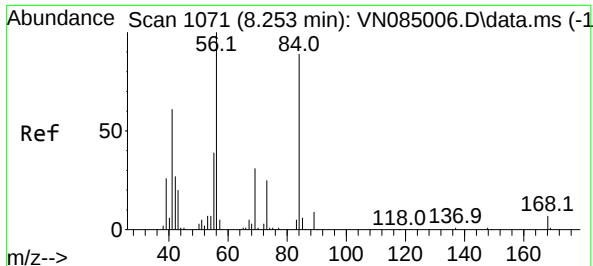


#18  
Methyl Acetate  
Concen: Below Cal  
RT: 5.024 min Scan# 522  
Delta R.T. 0.006 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05



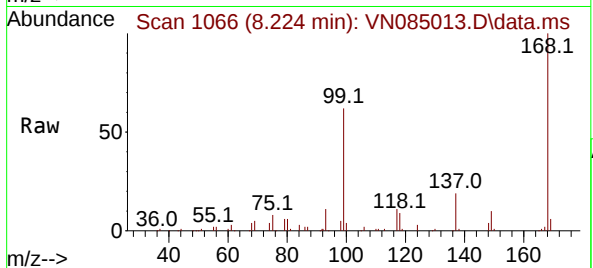
Tgt Ion: 43 Resp: 790  
Ion Ratio Lower Upper  
43 100  
74 7.3 20.1 30.1#



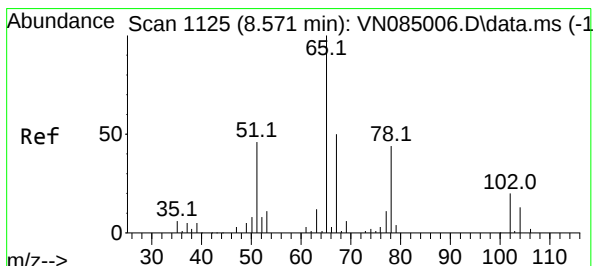
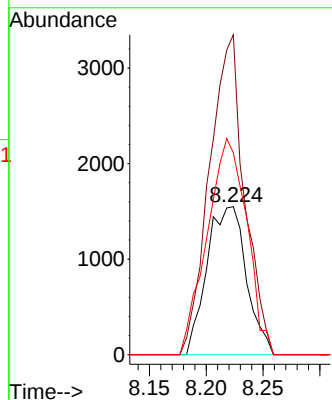
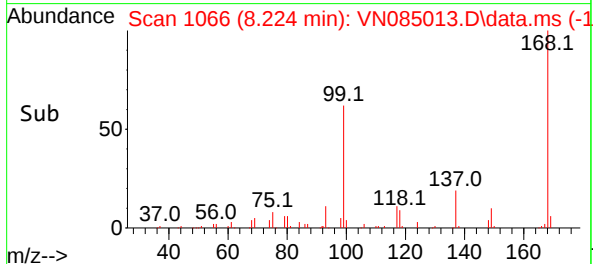


#31  
Cyclohexane  
Concen: 1.146 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

Instrument :  
MSVOA\_N  
ClientSampleId :

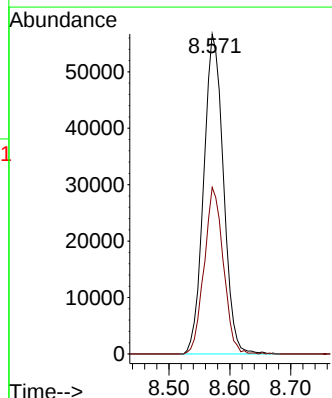
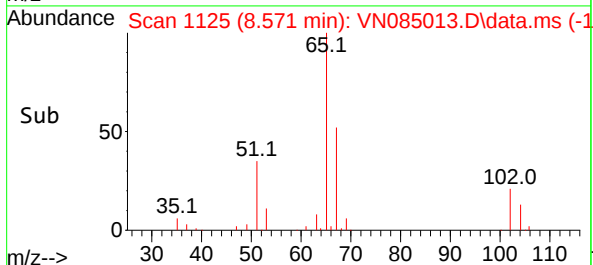
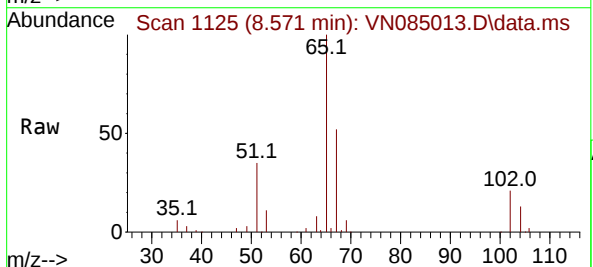


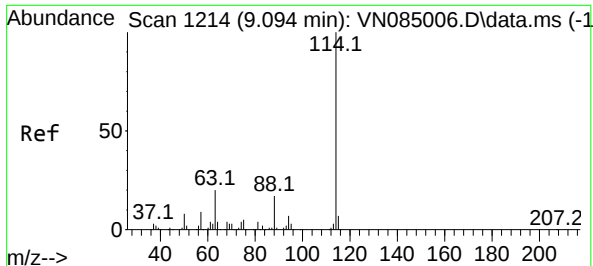
Tgt Ion: 56 Resp: 3738  
Ion Ratio Lower Upper  
56 100  
69 216.1 24.6 36.8#  
84 136.3 71.4 107.2#



#33  
1,2-Dichloroethane-d4  
Concen: 52.127 ug/l  
RT: 8.571 min Scan# 1125  
Delta R.T. 0.000 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

Tgt Ion: 65 Resp: 127602  
Ion Ratio Lower Upper  
65 100  
67 50.6 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 11

Delta R.T. 0.000 min

Lab File: VN085013.D

Acq: 22 Nov 2024 17:05

Instrument :

MSVOA\_N

ClientSampleId :

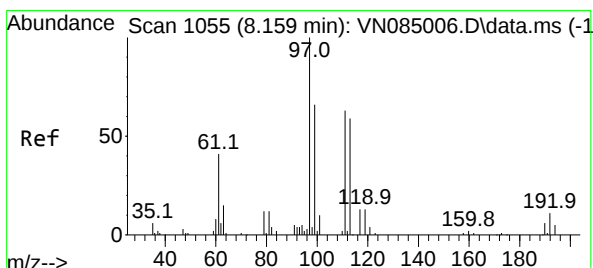
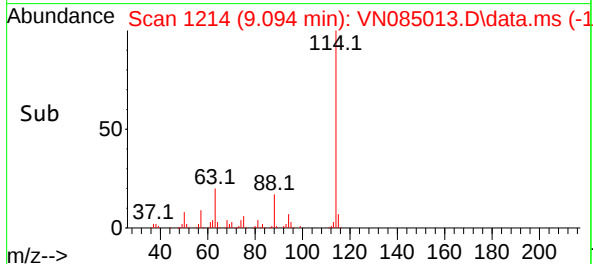
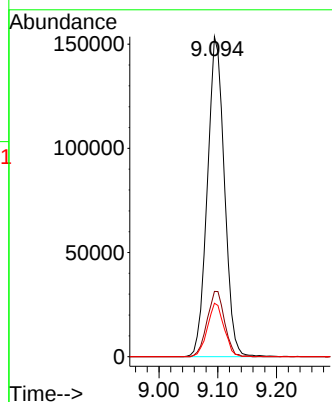
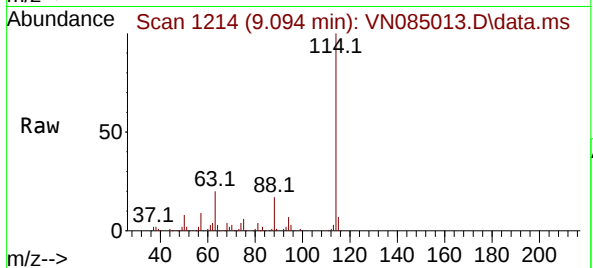
Tgt Ion:114 Resp: 308794

Ion Ratio Lower Upper

114 100

63 20.4 0.0 41.0

88 16.7 0.0 34.8



#35

Dibromofluoromethane

Concen: 49.500 ug/l

RT: 8.159 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VN085013.D

Acq: 22 Nov 2024 17:05

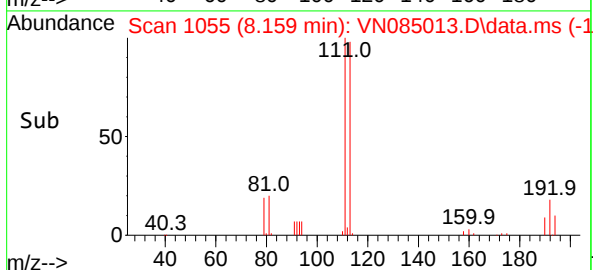
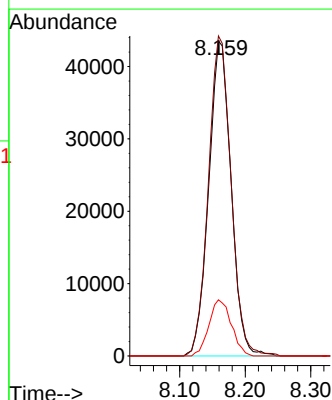
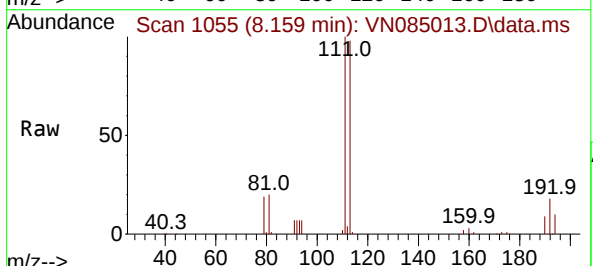
Tgt Ion:113 Resp: 103079

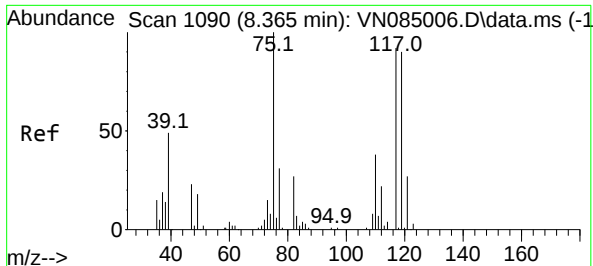
Ion Ratio Lower Upper

113 100

111 102.8 82.0 123.0

192 17.9 14.8 22.2





#36

1,1-Dichloropropene

Concen: 5.086 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN085013.D

Acq: 22 Nov 2024 17:05

Instrument :

MSVOA\_N

ClientSampleId :

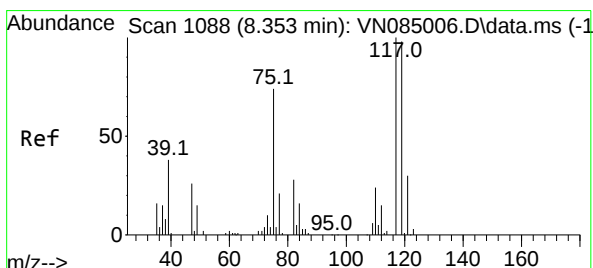
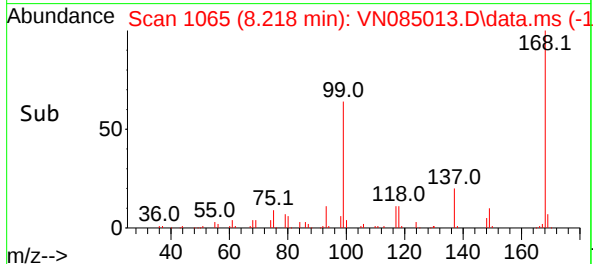
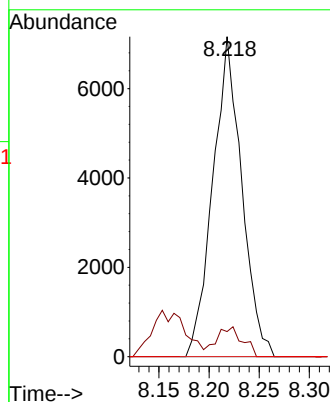
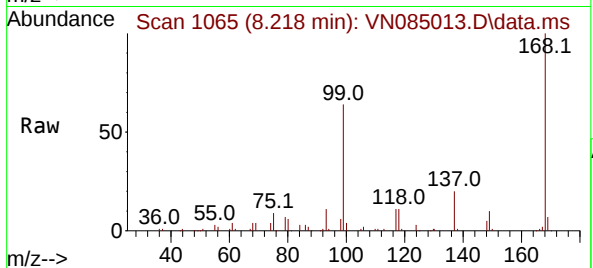
Tgt Ion: 75 Resp: 14345

Ion Ratio Lower Upper

75 100

110 8.4 17.2 51.6#

77 0.0 24.2 36.4#



#38

Carbon Tetrachloride

Concen: 5.943 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.135 min

Lab File: VN085013.D

Acq: 22 Nov 2024 17:05

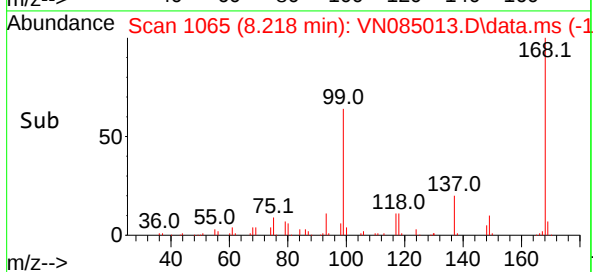
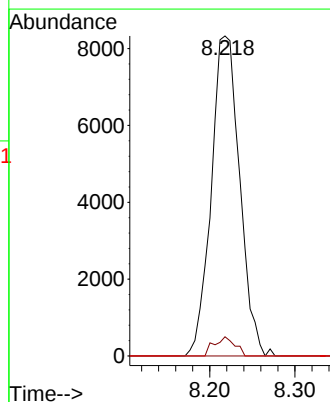
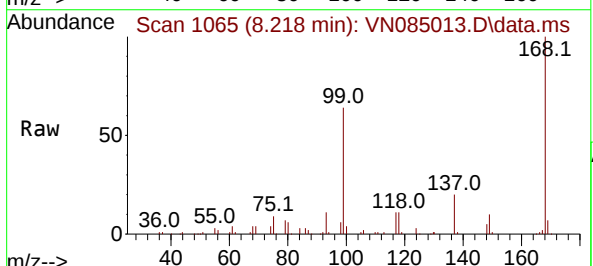
Tgt Ion: 117 Resp: 19349

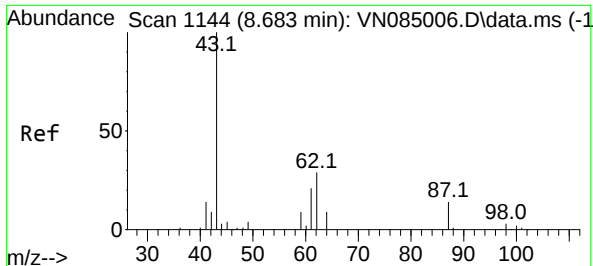
Ion Ratio Lower Upper

117 100

119 6.0 78.6 117.8#

121 0.0 24.2 36.2#





#43

Isopropyl Acetate

Concen: 0.506 ug/l

RT: 8.700 min Scan# 1147

Delta R.T. 0.018 min

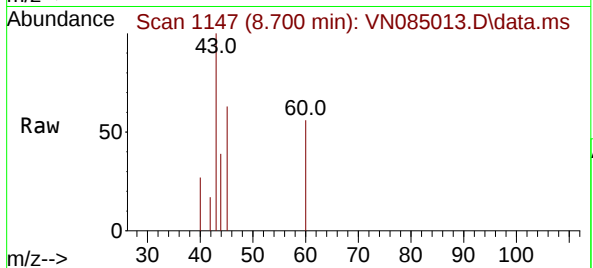
Lab File: VN085013.D

Acq: 22 Nov 2024 17:05

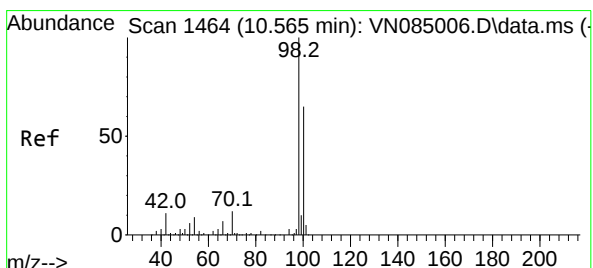
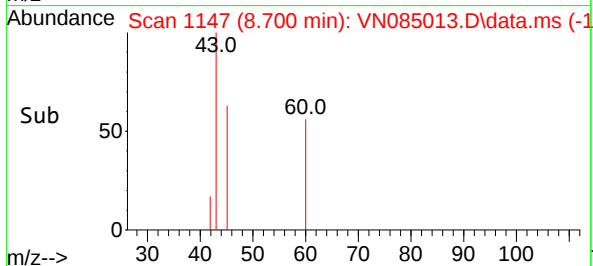
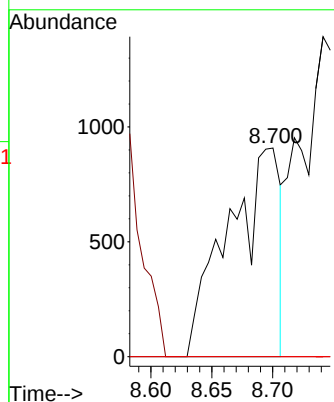
Instrument :

MSVOA\_N

ClientSampleId :



|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 2694     |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 61          | 0.0 20.6 30.8# |
| 87          | 0.0 11.0 16.4# |



#50

Toluene-d8

Concen: 46.809 ug/l

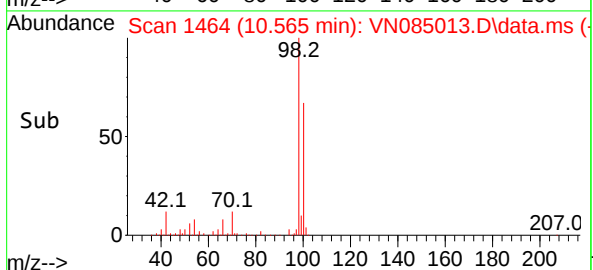
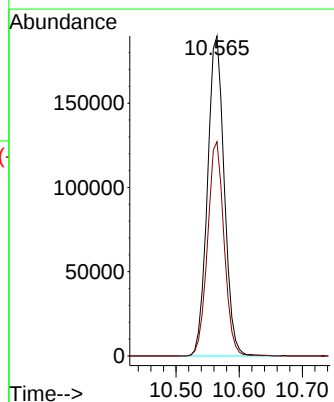
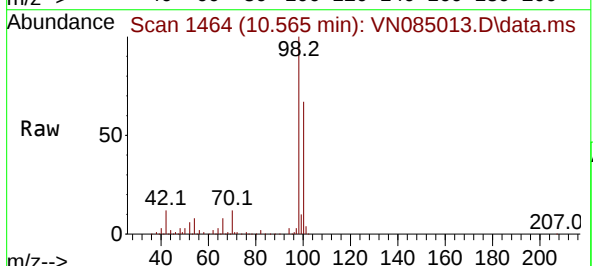
RT: 10.565 min Scan# 1464

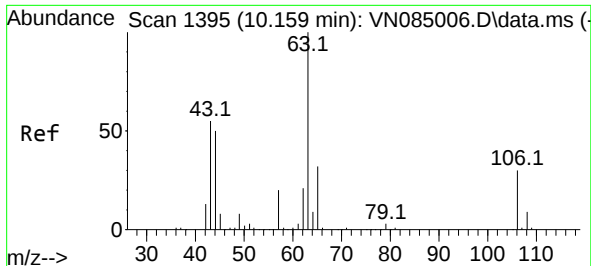
Delta R.T. 0.000 min

Lab File: VN085013.D

Acq: 22 Nov 2024 17:05

|             |                |
|-------------|----------------|
| Tgt Ion: 98 | Resp: 349325   |
| Ion Ratio   | Lower Upper    |
| 98          | 100            |
| 100         | 65.9 52.5 78.7 |

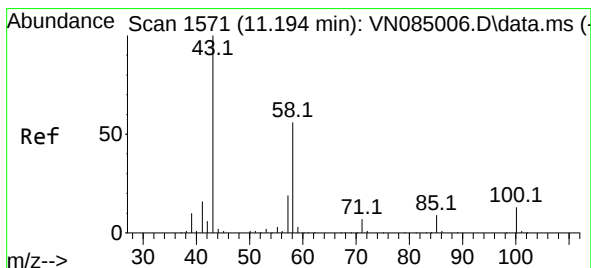
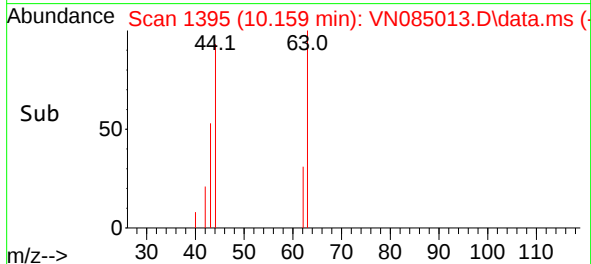
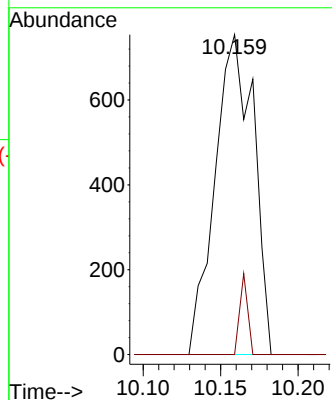
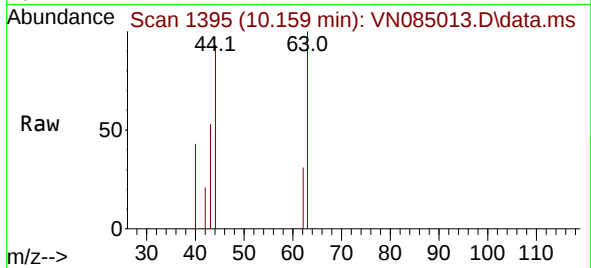




#58  
2-Chloroethyl Vinyl ether  
Concen: 0.929 ug/l  
RT: 10.159 min Scan# 1395  
Delta R.T. 0.000 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

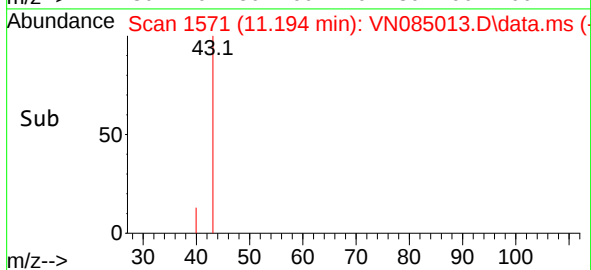
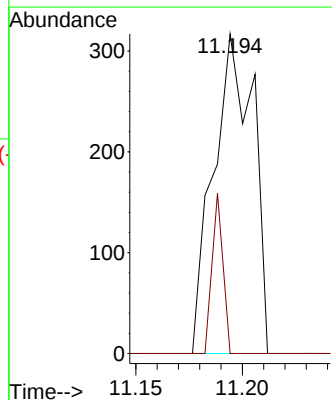
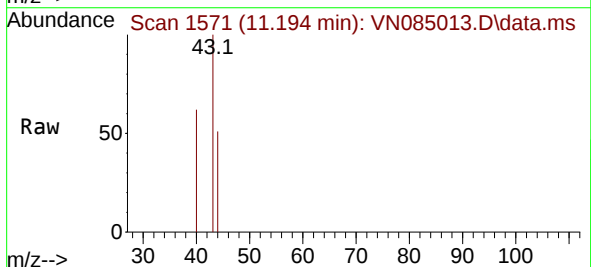
Instrument :  
MSVOA\_N  
ClientSampleId :

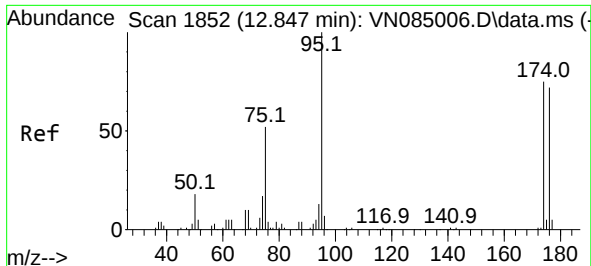
Tgt Ion: 63 Resp: 1310  
Ion Ratio Lower Upper  
63 100  
106 5.1 23.0 34.6#



#59  
2-Hexanone  
Concen: 0.226 ug/l  
RT: 11.194 min Scan# 1571  
Delta R.T. 0.000 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

Tgt Ion: 43 Resp: 412  
Ion Ratio Lower Upper  
43 100  
58 13.6 28.3 85.0#

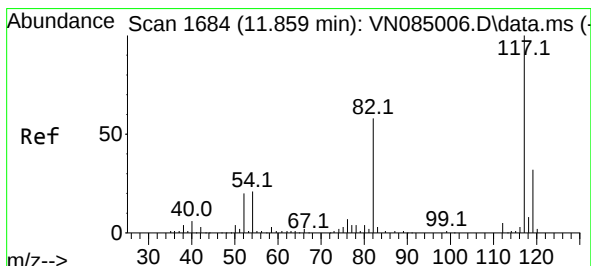
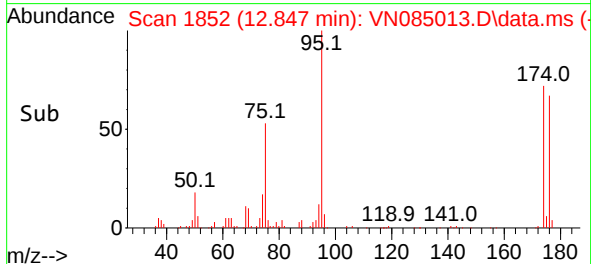
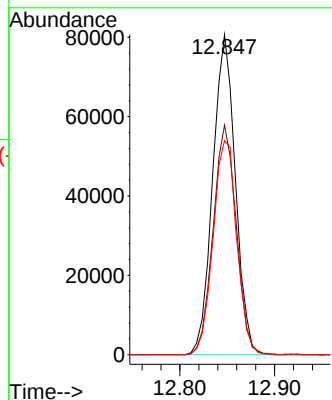
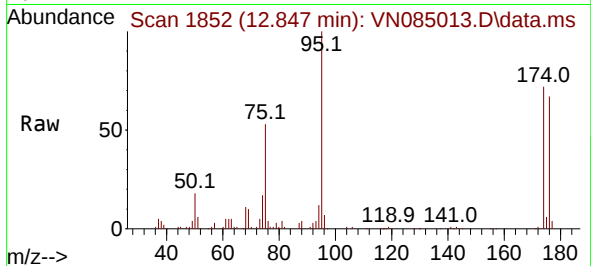




#62  
4-Bromofluorobenzene  
Concen: 47.757 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

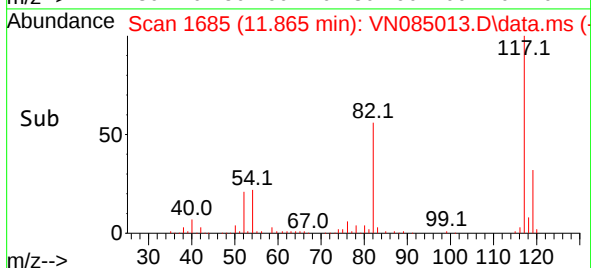
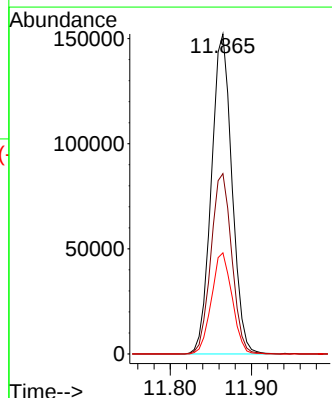
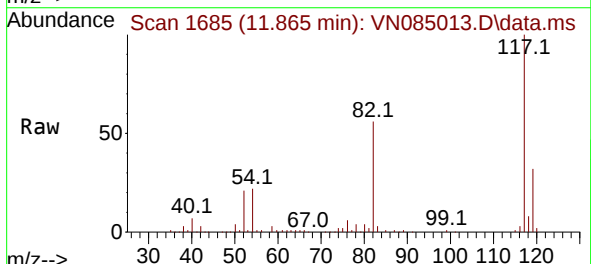
Instrument :  
MSVOA\_N  
ClientSampleId :

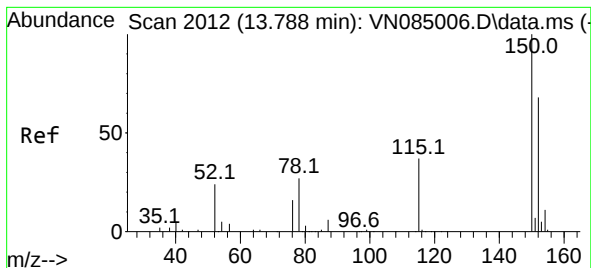
Tgt Ion: 95 Resp: 133284  
Ion Ratio Lower Upper  
95 100  
174 73.4 0.0 146.6  
176 70.2 0.0 141.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.006 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

Tgt Ion: 117 Resp: 267922  
Ion Ratio Lower Upper  
117 100  
82 56.3 46.0 69.0  
119 31.6 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN085013.D

Acq: 22 Nov 2024 17:05

Instrument :

MSVOA\_N

ClientSampleId :

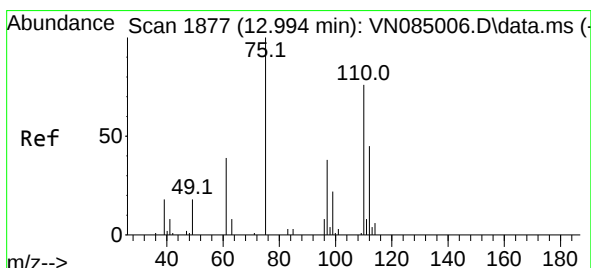
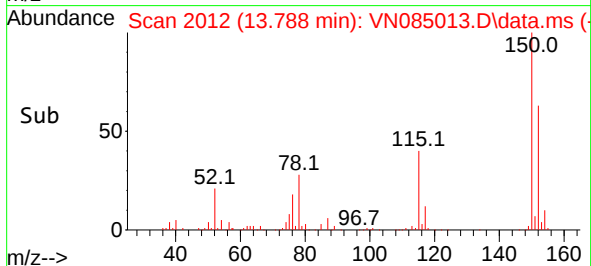
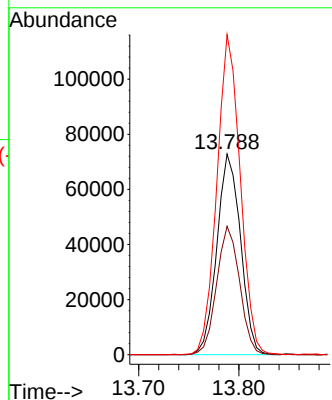
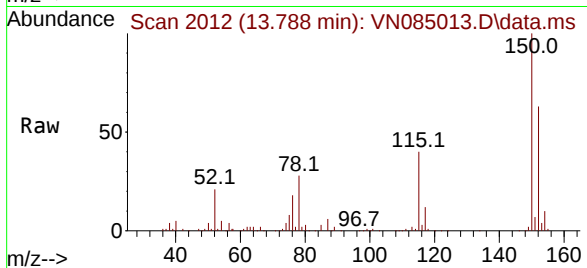
Tgt Ion:152 Resp: 119226

Ion Ratio Lower Upper

152 100

115 62.0 31.7 95.1

150 157.7 0.0 351.4



#76

1,2,3-Trichloropropane

Concen: 31.921 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN085013.D

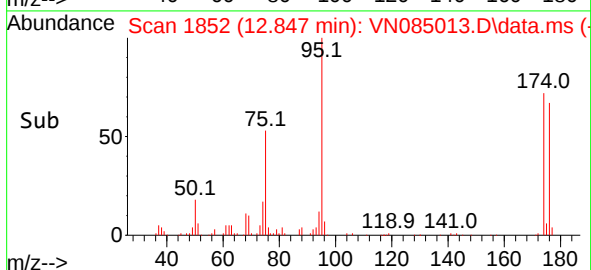
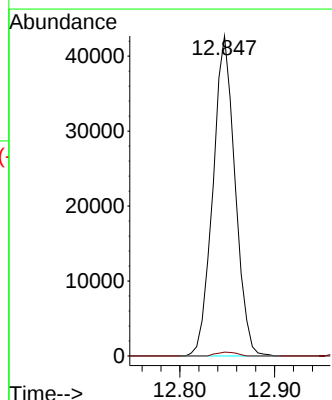
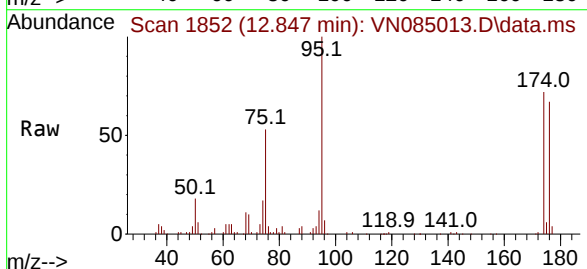
Acq: 22 Nov 2024 17:05

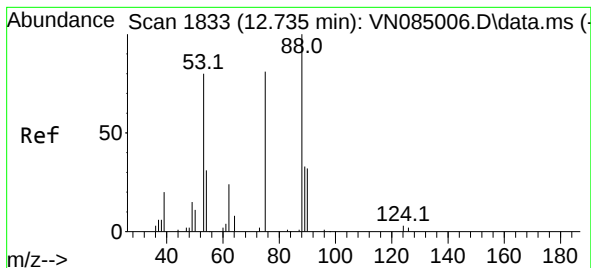
Tgt Ion: 75 Resp: 69224

Ion Ratio Lower Upper

75 100

77 1.1 109.1 327.4#

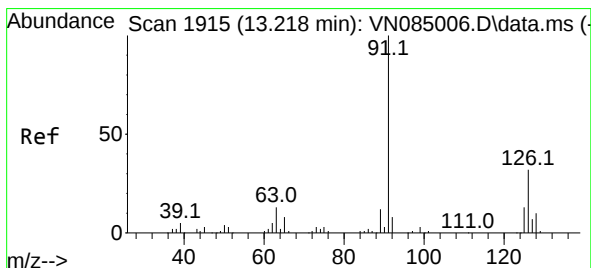
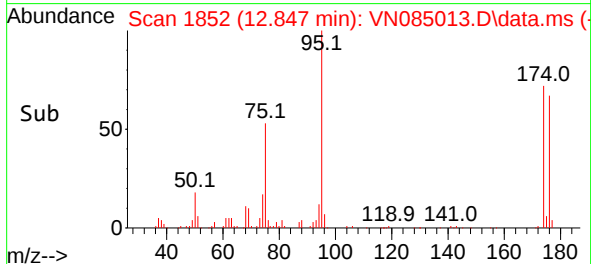
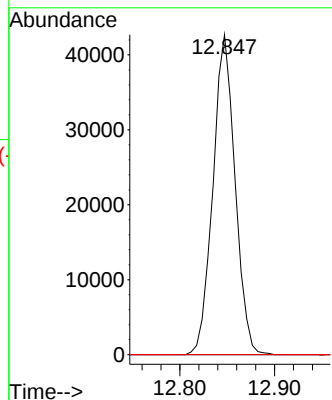
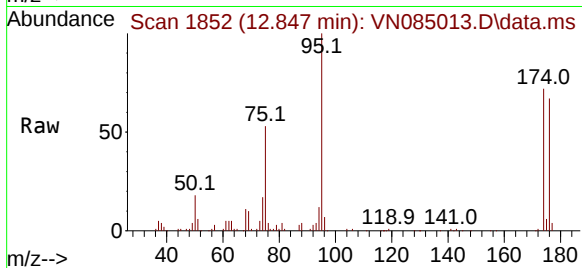




#81  
trans-1,4-Dichloro-2-butene  
Concen: 70.467 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

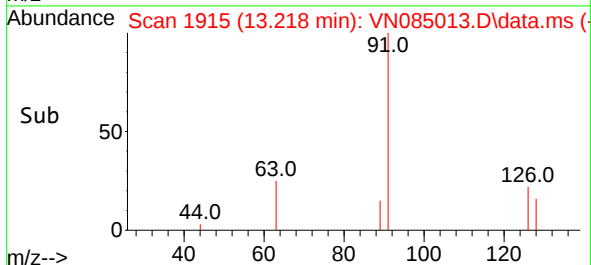
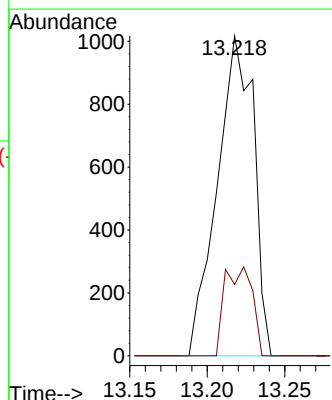
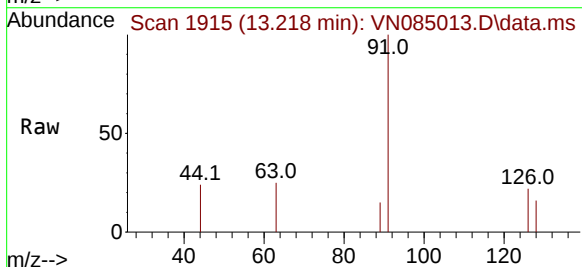
Instrument :  
MSVOA\_N  
ClientSampleId :

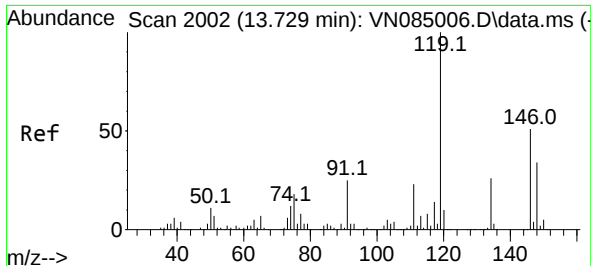
Tgt Ion: 75 Resp: 69224  
Ion Ratio Lower Upper  
75 100  
53 0.0 78.2 117.4#  
89 0.0 37.9 56.9#



#82  
4-Chlorotoluene  
Concen: 0.247 ug/l  
RT: 13.218 min Scan# 1915  
Delta R.T. 0.000 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

Tgt Ion: 91 Resp: 1667  
Ion Ratio Lower Upper  
91 100  
126 21.0 16.1 48.3





#87

1,3-Dichlorobenzene

Concen: 0.271 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN085013.D

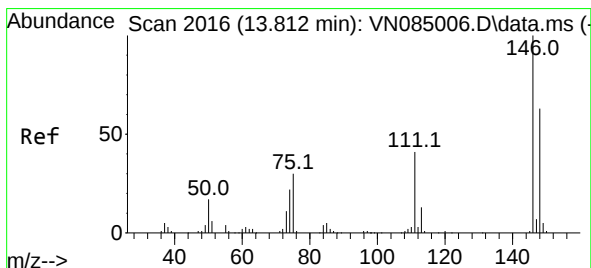
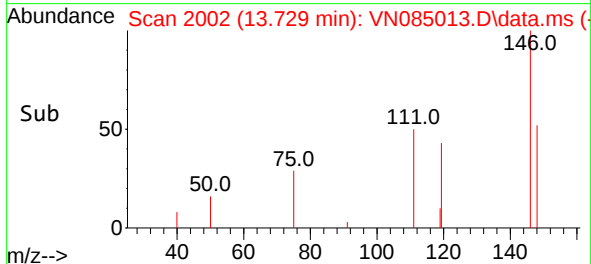
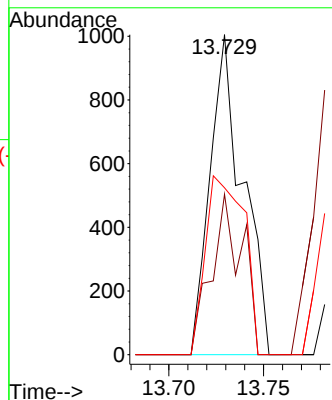
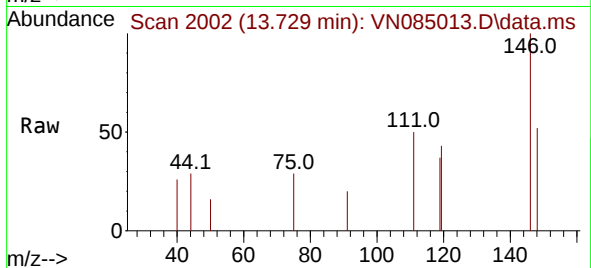
Acq: 22 Nov 2024 17:05

Instrument :

MSVOA\_N

ClientSampleId :

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:146 | Resp: | 1210        |
| Ion         | Ratio | Lower Upper |
| 146         | 100   |             |
| 111         | 47.2  | 21.6 65.0   |
| 148         | 65.9  | 32.2 96.6   |



#88

1,4-Dichlorobenzene

Concen: 0.266 ug/l

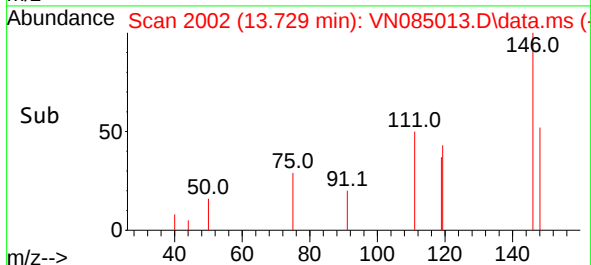
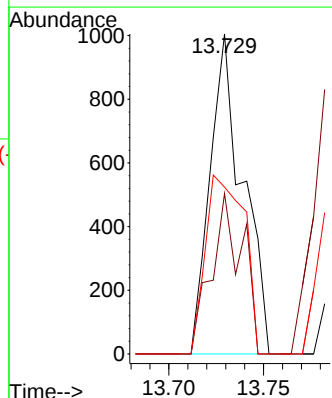
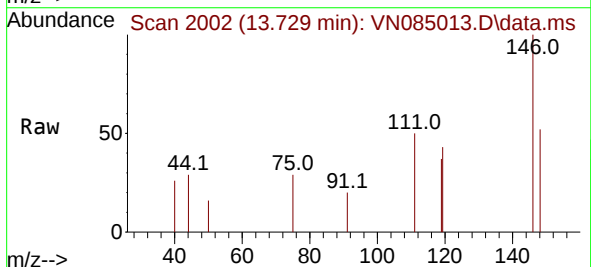
RT: 13.729 min Scan# 2002

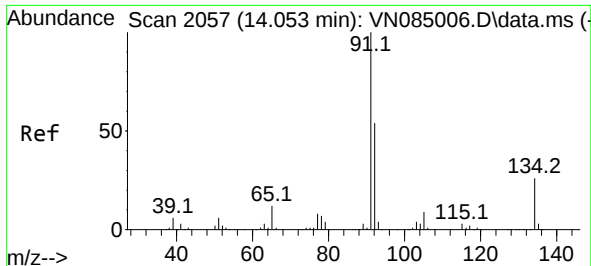
Delta R.T. -0.082 min

Lab File: VN085013.D

Acq: 22 Nov 2024 17:05

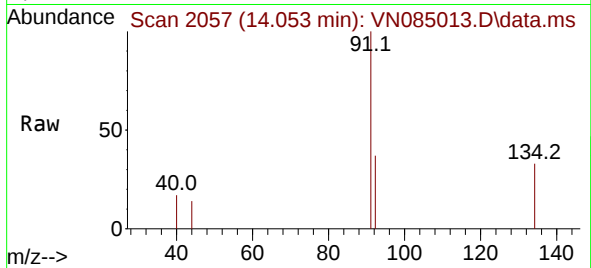
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:146 | Resp: | 1210        |
| Ion         | Ratio | Lower Upper |
| 146         | 100   |             |
| 111         | 47.2  | 20.9 62.8   |
| 148         | 65.9  | 31.3 93.9   |



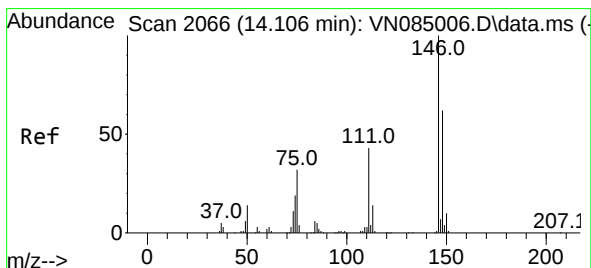
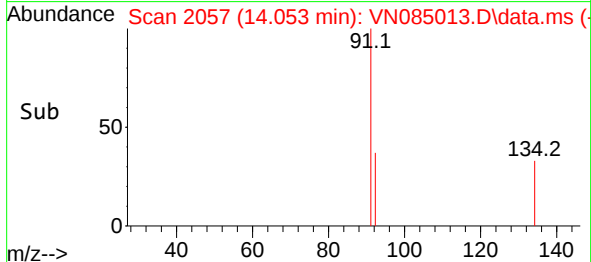
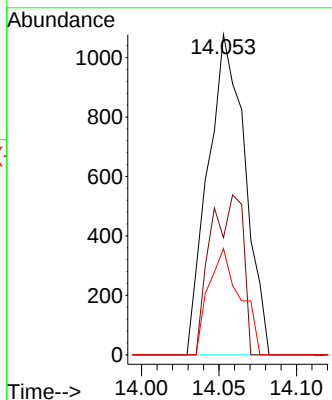


#89  
n-Butylbenzene  
Concen: 0.284 ug/l  
RT: 14.053 min Scan# 2057  
Delta R.T. 0.000 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

Instrument :  
MSVOA\_N  
ClientSampleId :

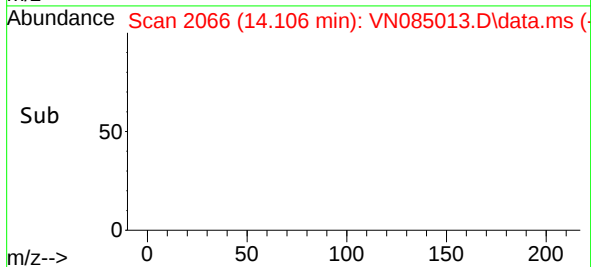
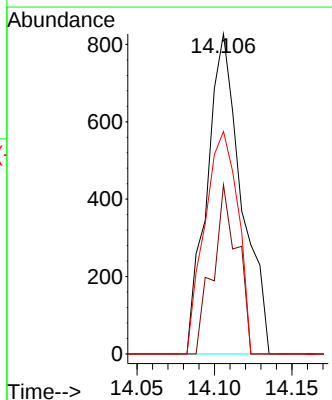
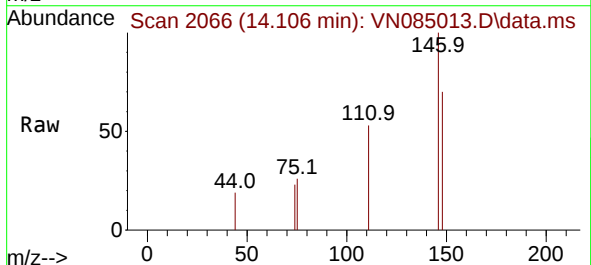


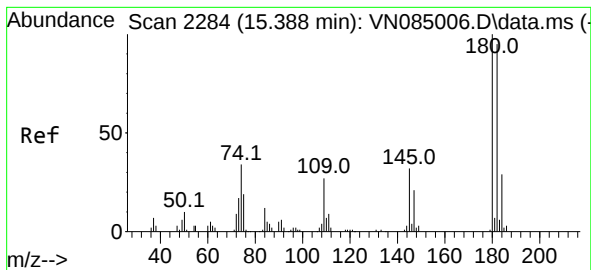
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 1788  |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 44.0  | 26.8  | 80.3  |
| 134      | 28.4  | 12.8  | 38.4  |



#91  
1,2-Dichlorobenzene  
Concen: 0.299 ug/l  
RT: 14.106 min Scan# 2066  
Delta R.T. 0.000 min  
Lab File: VN085013.D  
Acq: 22 Nov 2024 17:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 146   | Resp: | 1279  |
| Ion      | Ratio | Lower | Upper |
| 146      | 100   |       |       |
| 111      | 37.8  | 21.9  | 65.8  |
| 148      | 66.9  | 31.1  | 93.2  |





#93

1,2,4-Trichlorobenzene

Concen: 0.579 ug/l

RT: 15.388 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN085013.D

Acq: 22 Nov 2024 17:05

Instrument :

MSVOA\_N

ClientSampleId :

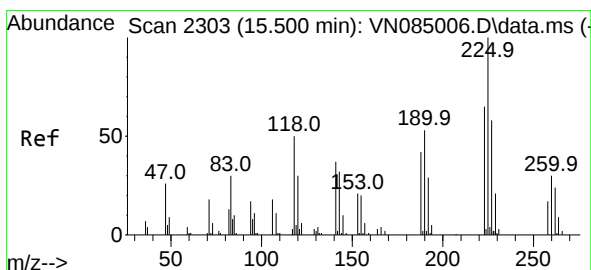
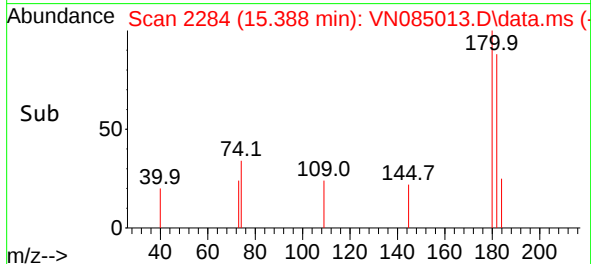
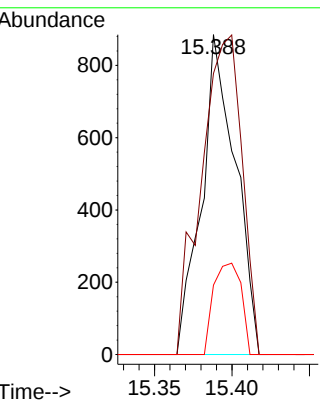
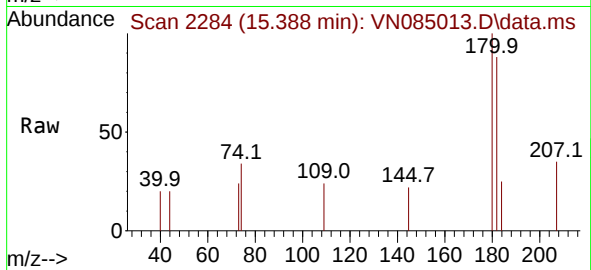
Tgt Ion:180 Resp: 1346

Ion Ratio Lower Upper

180 100

182 120.0 46.9 140.8

145 23.3 16.3 48.8



#94

Hexachlorobutadiene

Concen: 0.392 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. 0.000 min

Lab File: VN085013.D

Acq: 22 Nov 2024 17:05

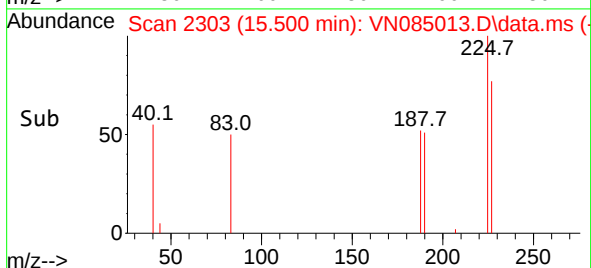
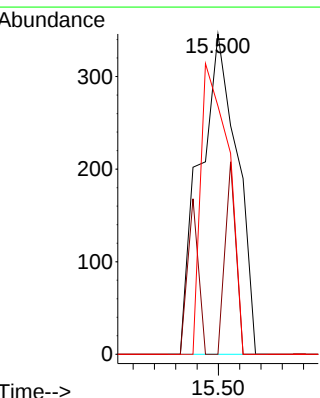
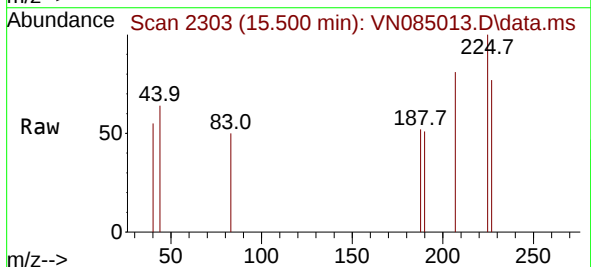
Tgt Ion:225 Resp: 421

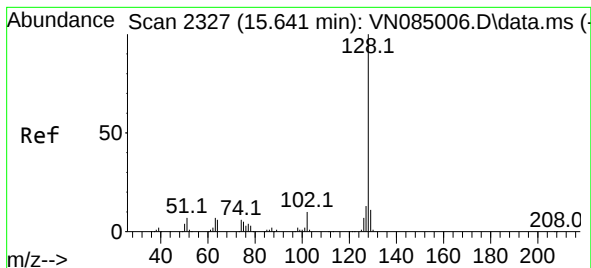
Ion Ratio Lower Upper

225 100

223 17.3 30.9 92.8#

227 67.0 31.5 94.5





#95

Naphthalene

Concen: 0.615 ug/l

RT: 15.635 min Scan# 21

Delta R.T. -0.006 min

Lab File: VN085013.D

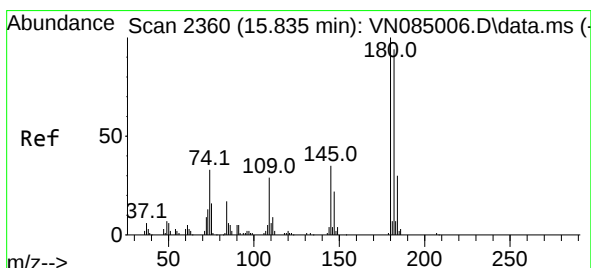
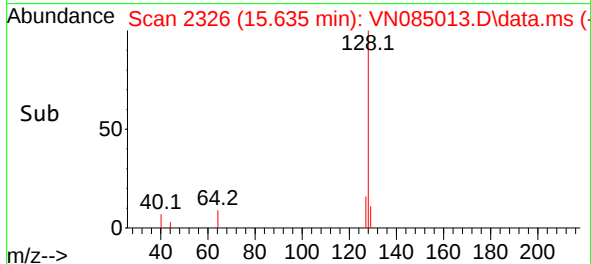
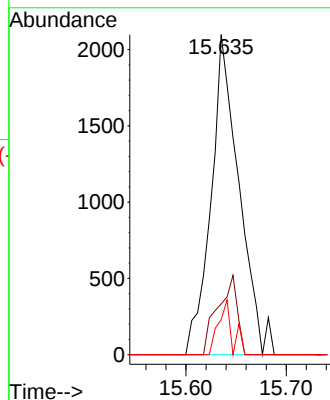
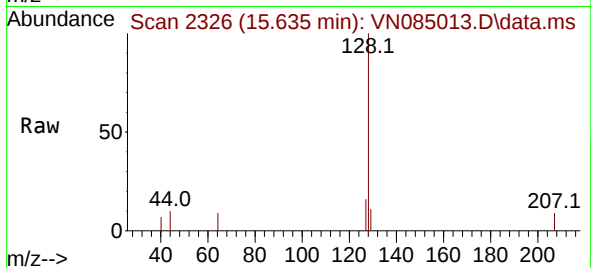
Acq: 22 Nov 2024 17:05

Instrument :

MSVOA\_N

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:128 | Resp: | 4074       |
| Ion Ratio   | Lower | Upper      |
| 128         | 100   |            |
| 127         | 17.2  | 10.6 16.0# |
| 129         | 8.3   | 8.6 12.8#  |



#96

1,2,3-Trichlorobenzene

Concen: 0.637 ug/l

RT: 15.835 min Scan# 2360

Delta R.T. 0.000 min

Lab File: VN085013.D

Acq: 22 Nov 2024 17:05

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 1412       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 100.6 | 46.4 139.2 |
| 145         | 32.4  | 17.3 52.0  |

