

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN083024\  
 Data File : VN083573.D  
 Acq On : 30 Aug 2024 14:04  
 Operator : JC\MD  
 Sample : VN0830WBL01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Aug 31 02:36:57 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083024W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Aug 31 00:48:10 2024  
 Response via : Initial Calibration

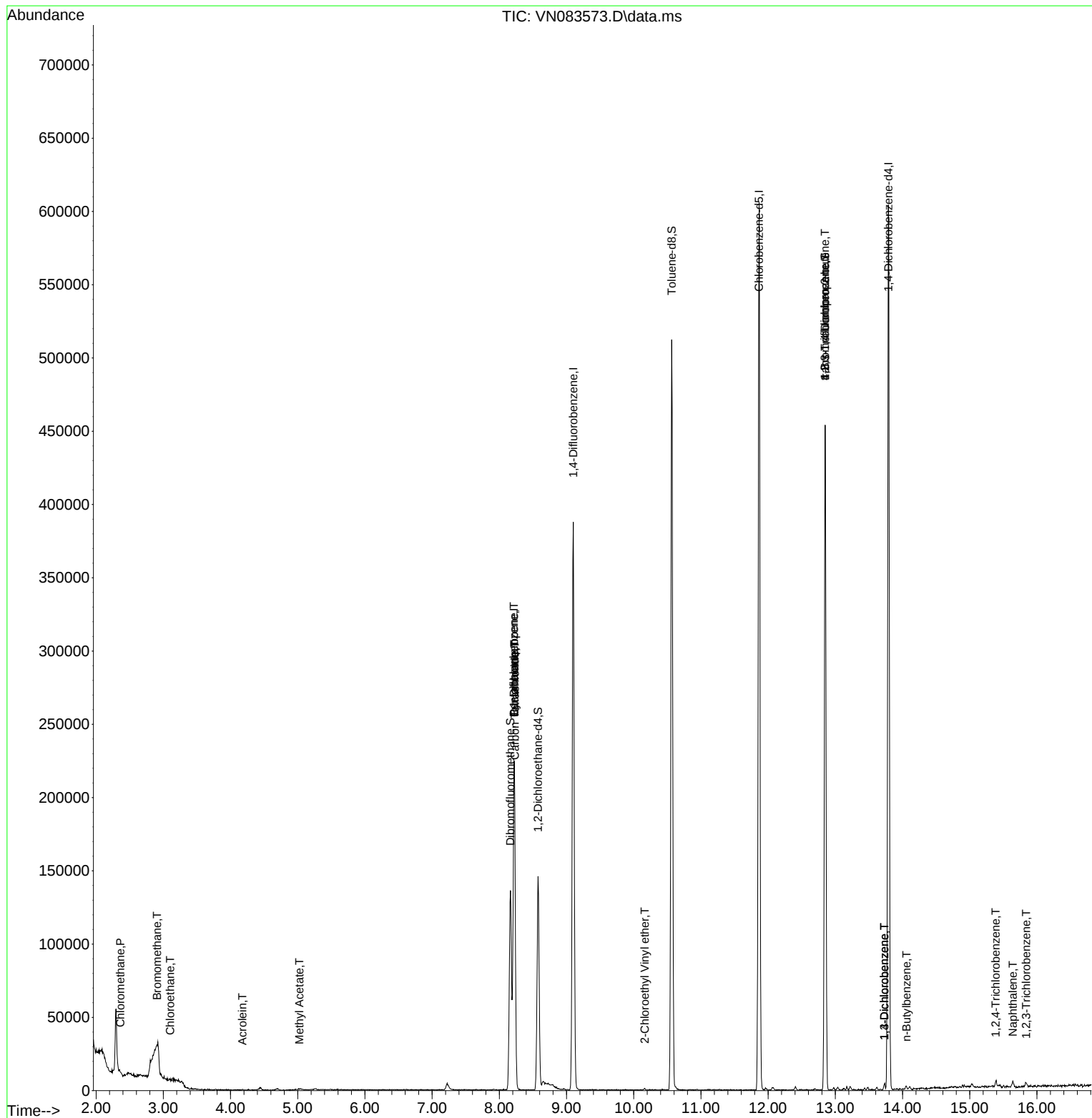
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 8.218  | 168   | 157415   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114   | 315659   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117   | 335792   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152   | 158033   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65    | 120438   | 54.744    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery  | = 109.480% |          |
| 35) Dibromofluoromethane      | 8.165  | 113   | 95245    | 50.132    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 100.260% |          |
| 50) Toluene-d8                | 10.565 | 98    | 343584   | 46.470    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery  | = 92.940%  |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95    | 158220   | 57.729    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery  | = 115.460% |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 3) Chloromethane              | 2.359  | 50    | 603      | 0.311     | ug/l       | 91       |
| 5) Bromomethane               | 2.906  | 94    | 425      | 0.416     | ug/l #     | 65       |
| 6) Chloroethane               | 3.101  | 64    | 727      | 0.573     | ug/l #     | 45       |
| 13) Acrolein                  | 4.177  | 56    | 182      | 0.561     | ug/l #     | 17       |
| 18) Methyl Acetate            | 5.024  | 43    | 1154     | 0.495     | ug/l #     | 66       |
| 31) Cyclohexane               | 8.224  | 56    | 4164     | 1.224     | ug/l #     | 33       |
| 36) 1,1-Dichloropropene       | 8.218  | 75    | 14703    | 5.074     | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 8.230  | 117   | 18140    | 5.486     | ug/l #     | 15       |
| 43) Isopropyl Acetate         | 8.653  | 43    | 5631     | Below Cal | #          | 57       |
| 58) 2-Chloroethyl Vinyl ether | 10.165 | 63    | 553      | 0.387     | ug/l #     | 46       |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75    | 87145    | 27.313    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75    | 87145    | 64.419    | ug/l #     | 9        |
| 87) 1,3-Dichlorobenzene       | 13.729 | 146   | 1472     | 0.253     | ug/l       | 91       |
| 88) 1,4-Dichlorobenzene       | 13.729 | 146   | 1472     | 0.246     | ug/l       | 90       |
| 89) n-Butylbenzene            | 14.059 | 91    | 1939     | 0.207     | ug/l       | 94       |
| 93) 1,2,4-Trichlorobenzene    | 15.388 | 180   | 1718     | 0.540     | ug/l       | 71       |
| 95) Naphthalene               | 15.641 | 128   | 3871     | 0.379     | ug/l #     | 93       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180   | 1098     | 0.346     | ug/l       | 97       |

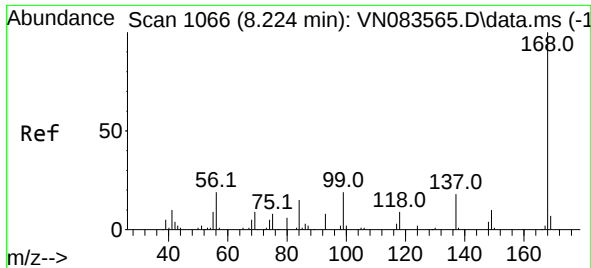
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN083024\  
Data File : VN083573.D  
Acq On : 30 Aug 2024 14:04  
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Sample : VN0830WBL01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

Quant Time: Aug 31 02:36:57 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N083024W.M  
Quant Title : SW846 8260  
QLast Update : Sat Aug 31 00:48:10 2024  
Response via : Initial Calibration

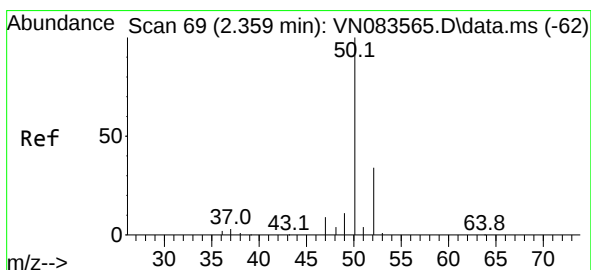
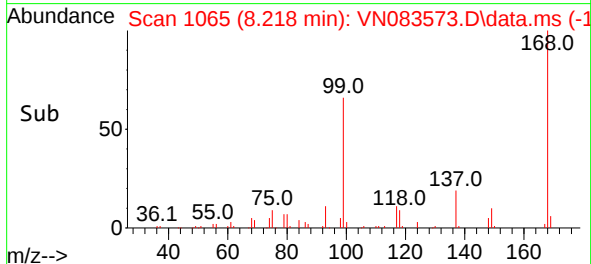
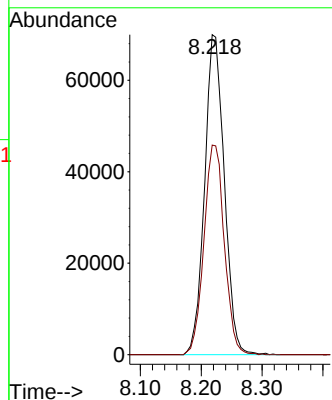
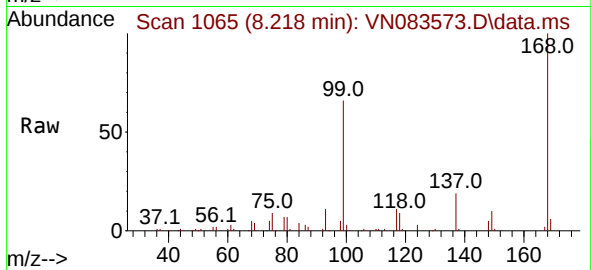




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.218 min Scan# 1065  
Delta R.T. -0.006 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

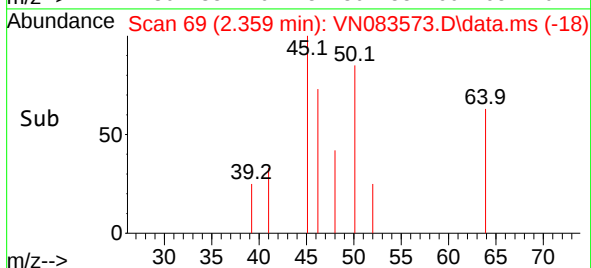
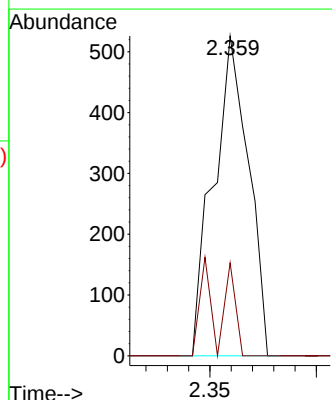
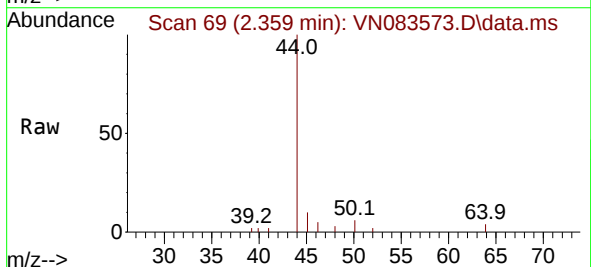
Instrument :  
MSVOA\_N  
ClientSampleId :

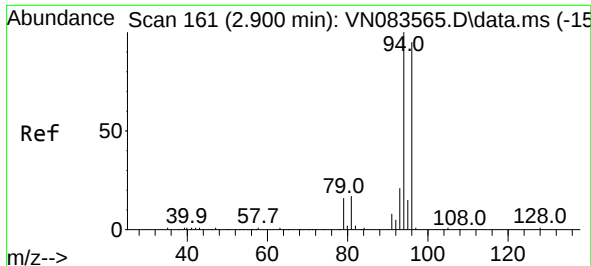
Tgt Ion:168 Resp: 157415  
Ion Ratio Lower Upper  
168 100  
99 65.5 54.2 81.2



#3  
Chloromethane  
Concen: 0.311 ug/l  
RT: 2.359 min Scan# 69  
Delta R.T. 0.000 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

Tgt Ion: 50 Resp: 603  
Ion Ratio Lower Upper  
50 100  
52 29.1 27.2 40.8

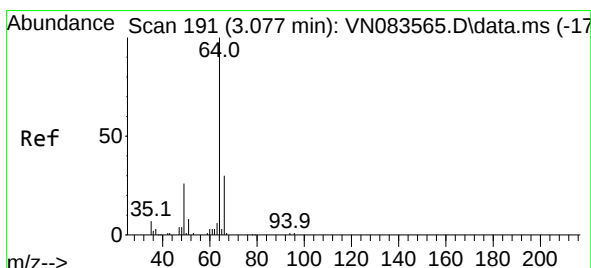
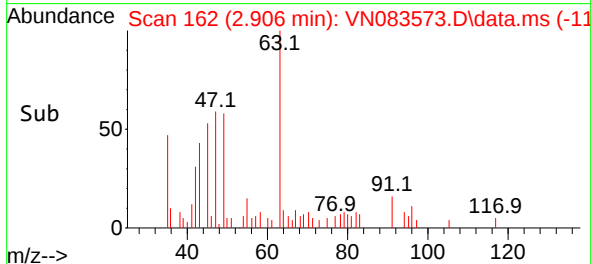
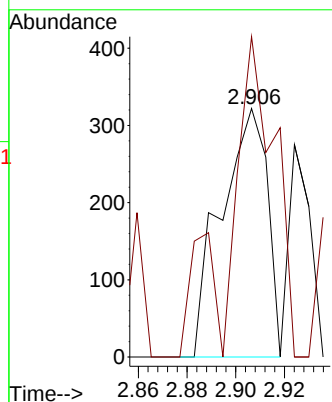
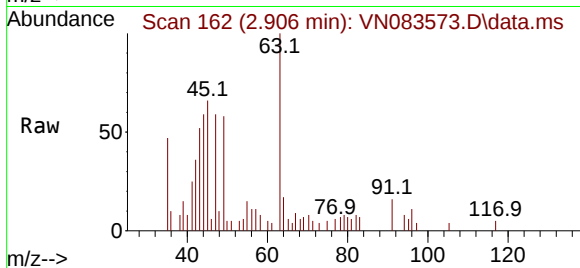




#5  
Bromomethane  
Concen: 0.416 ug/l  
RT: 2.906 min Scan# 115  
Delta R.T. 0.006 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

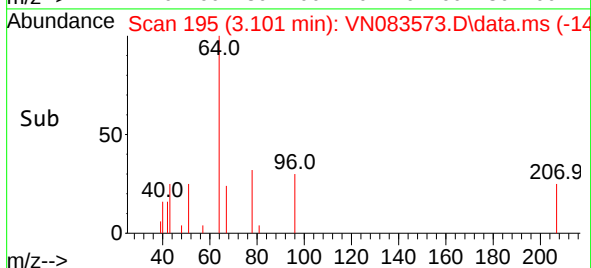
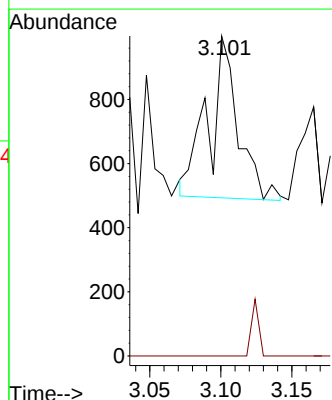
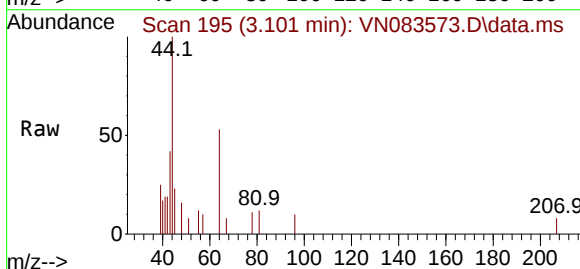
Instrument :  
MSVOA\_N  
ClientSampleId :

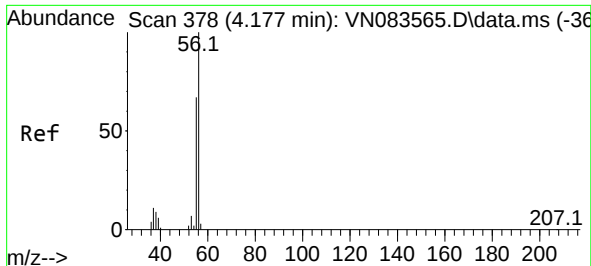
Tgt Ion: 94 Resp: 425  
Ion Ratio Lower Upper  
94 100  
96 128.9 76.0 114.0#



#6  
Chloroethane  
Concen: 0.573 ug/l  
RT: 3.101 min Scan# 195  
Delta R.T. 0.024 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

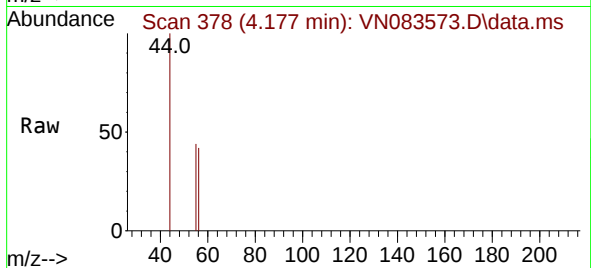
Tgt Ion: 64 Resp: 727  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.9 35.9#



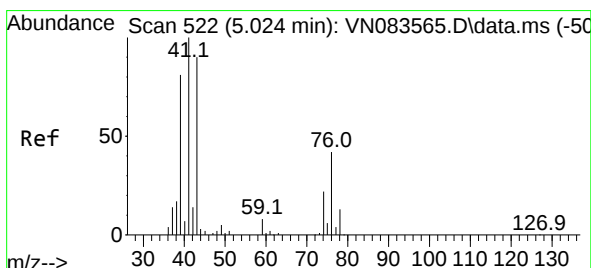
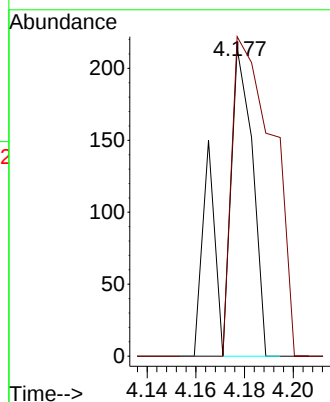
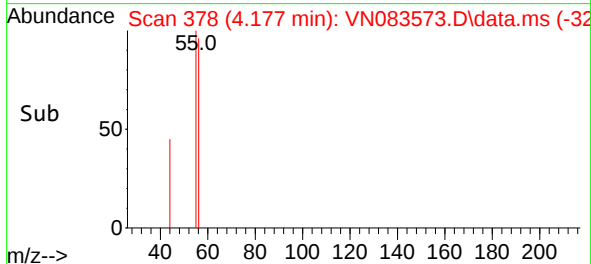


#13  
Acrolein  
Concen: 0.561 ug/l  
RT: 4.177 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

Instrument :  
MSVOA\_N  
ClientSampleId :

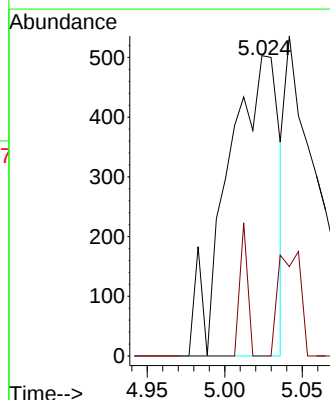
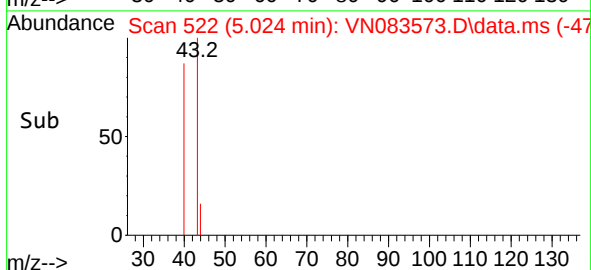
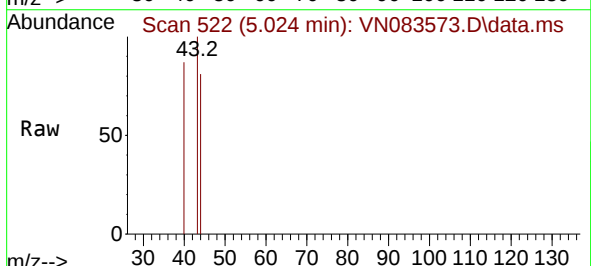


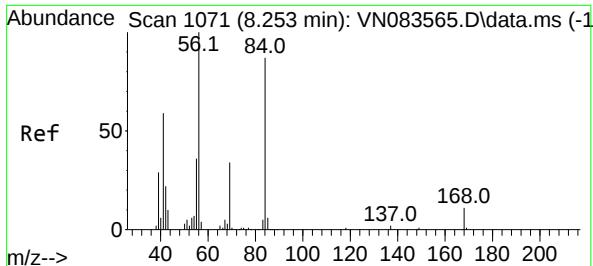
Tgt Ion: 56 Resp: 182  
Ion Ratio Lower Upper  
56 100  
55 142.3 58.2 87.2#



#18  
Methyl Acetate  
Concen: 0.495 ug/l  
RT: 5.024 min Scan# 522  
Delta R.T. 0.000 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

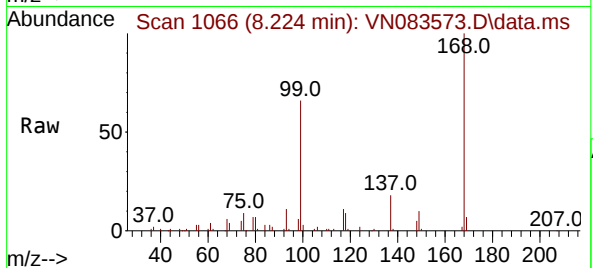
Tgt Ion: 43 Resp: 1154  
Ion Ratio Lower Upper  
43 100  
74 6.8 19.0 28.4#



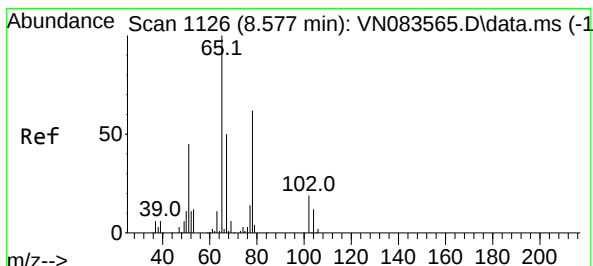
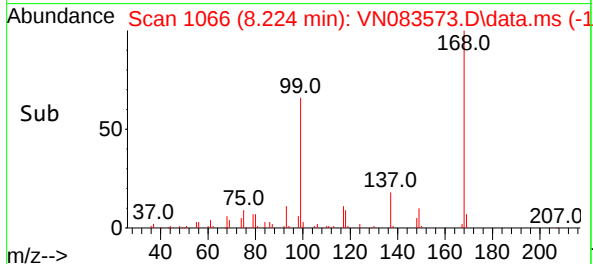
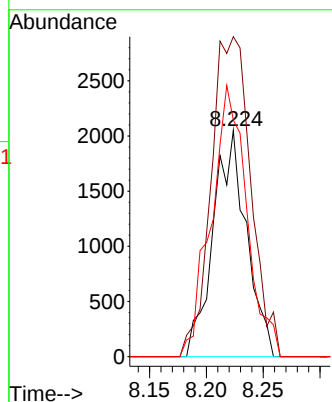


#31  
Cyclohexane  
Concen: 1.224 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

Instrument :  
MSVOA\_N  
ClientSampleId :

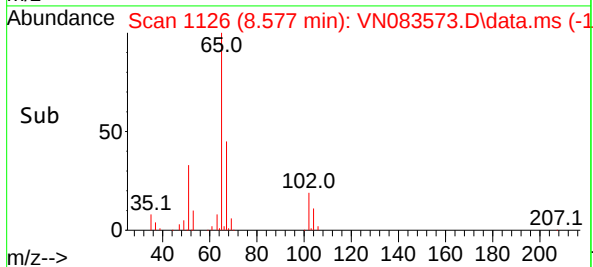
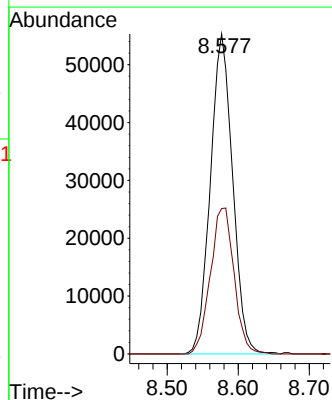
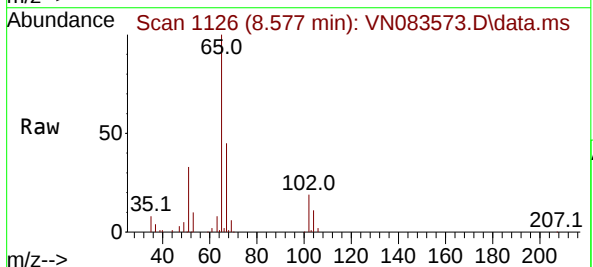


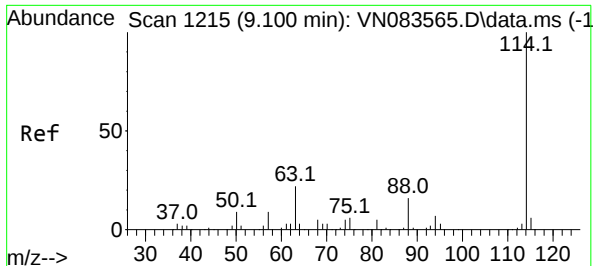
Tgt Ion: 56 Resp: 4164  
Ion Ratio Lower Upper  
56 100  
69 141.5 26.9 40.3#  
84 104.6 69.2 103.8#



#33  
1,2-Dichloroethane-d4  
Concen: 54.744 ug/l  
RT: 8.577 min Scan# 1126  
Delta R.T. 0.000 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

Tgt Ion: 65 Resp: 120438  
Ion Ratio Lower Upper  
65 100  
67 48.5 0.0 100.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083573.D

Acq: 30 Aug 2024 14:04

Instrument :

MSVOA\_N

ClientSampleId :

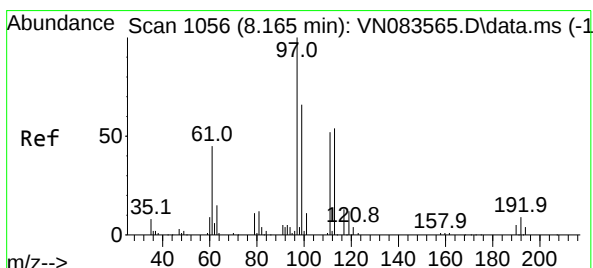
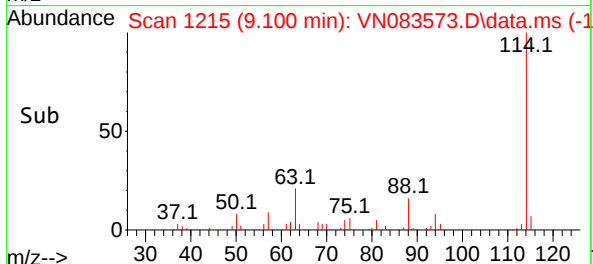
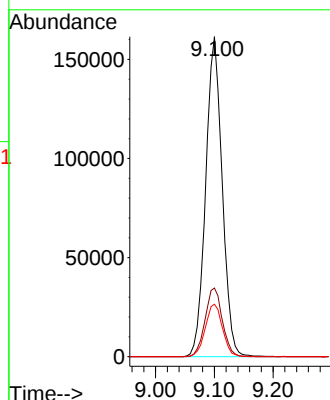
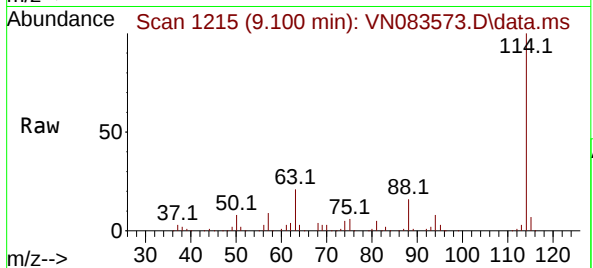
Tgt Ion:114 Resp: 315659

Ion Ratio Lower Upper

114 100

63 21.5 0.0 43.4

88 16.4 0.0 32.6



#35

Dibromofluoromethane

Concen: 50.132 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083573.D

Acq: 30 Aug 2024 14:04

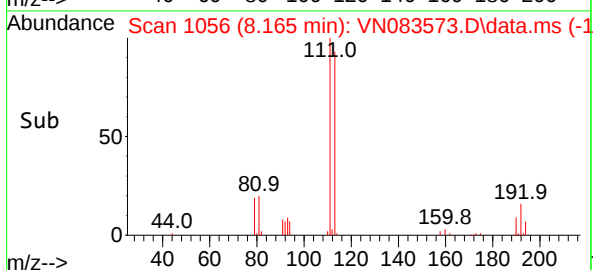
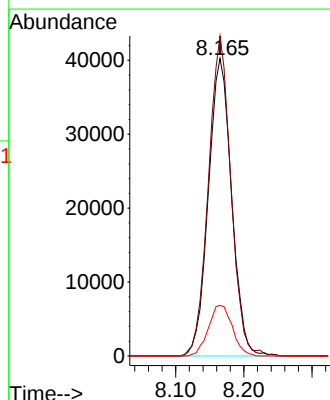
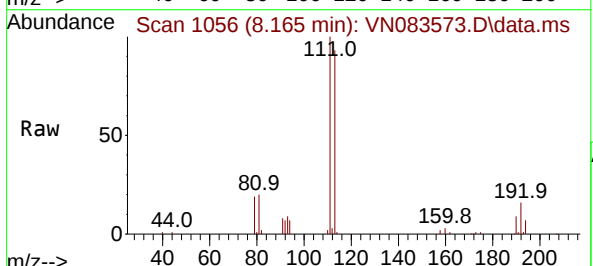
Tgt Ion:113 Resp: 95245

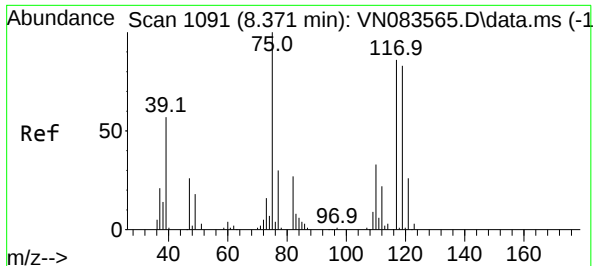
Ion Ratio Lower Upper

113 100

111 104.4 82.6 124.0

192 17.6 14.3 21.5





#36

1,1-Dichloropropene

Concen: 5.074 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN083573.D

Acq: 30 Aug 2024 14:04

Instrument :

MSVOA\_N

ClientSampleId :

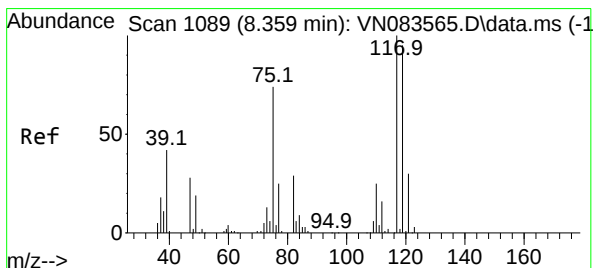
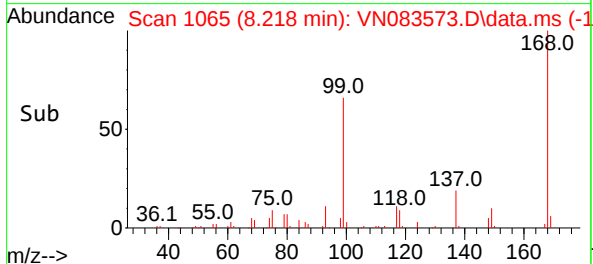
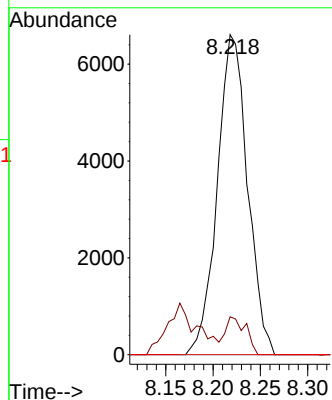
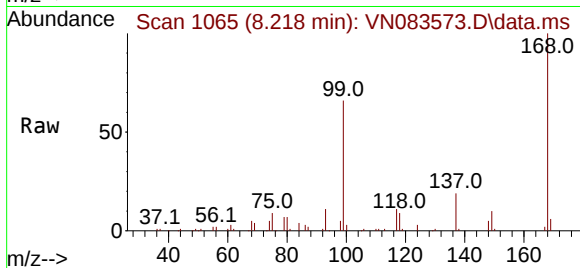
Tgt Ion: 75 Resp: 14703

Ion Ratio Lower Upper

75 100

110 7.9 16.7 50.1#

77 0.0 25.2 37.8#



#38

Carbon Tetrachloride

Concen: 5.486 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.129 min

Lab File: VN083573.D

Acq: 30 Aug 2024 14:04

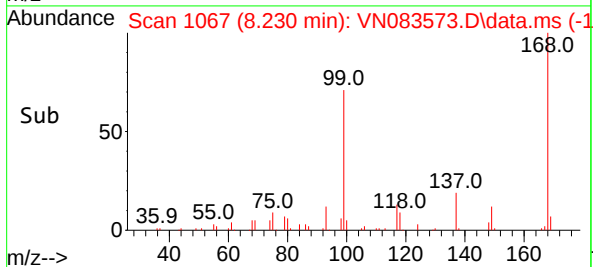
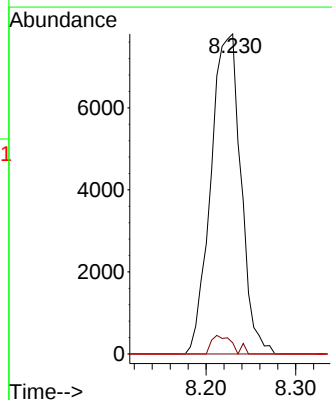
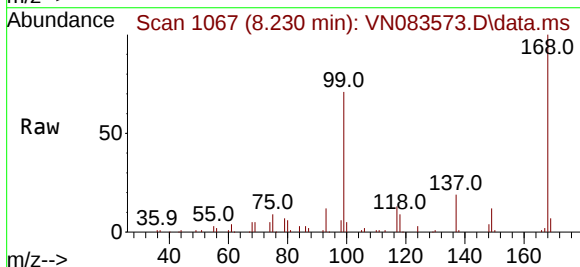
Tgt Ion: 117 Resp: 18140

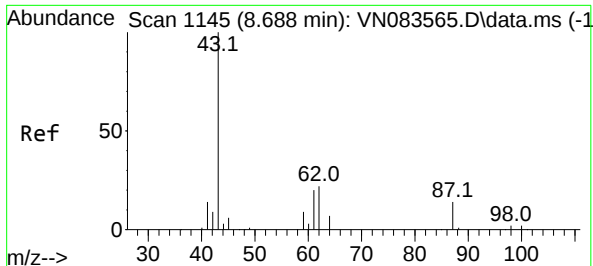
Ion Ratio Lower Upper

117 100

119 3.5 76.1 114.1#

121 0.0 24.1 36.1#

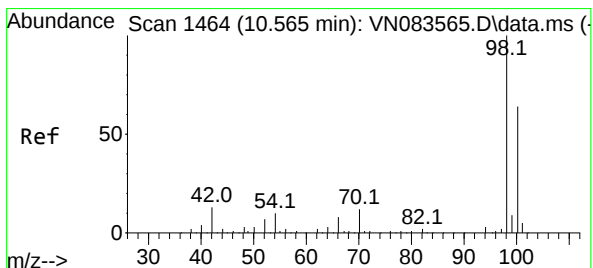
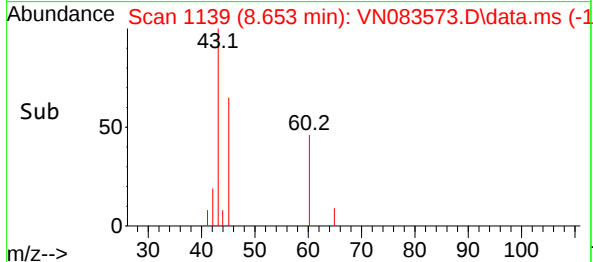
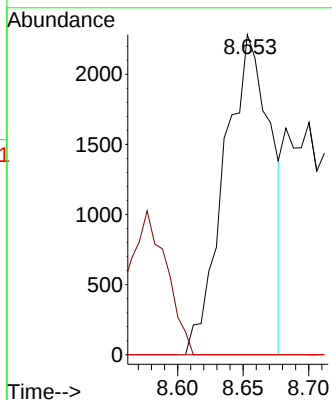
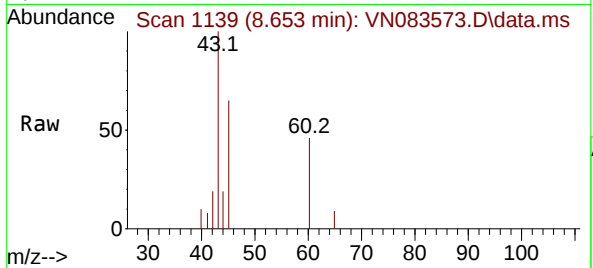




#43  
Isopropyl Acetate  
Concen: Below Cal  
RT: 8.653 min Scan# 1145  
Delta R.T. -0.035 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

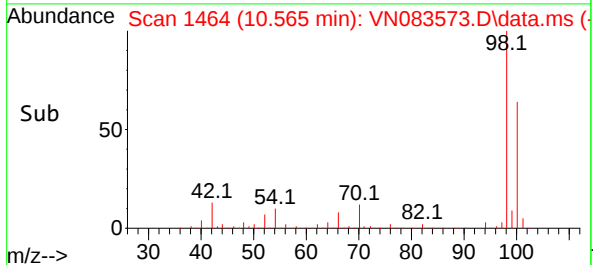
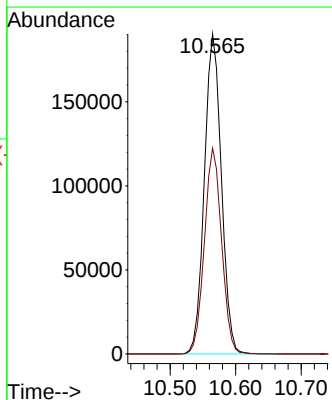
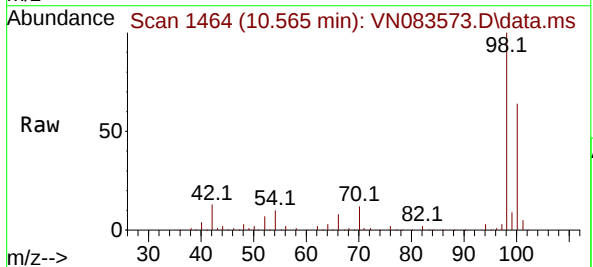
Instrument :  
MSVOA\_N  
ClientSampleId :

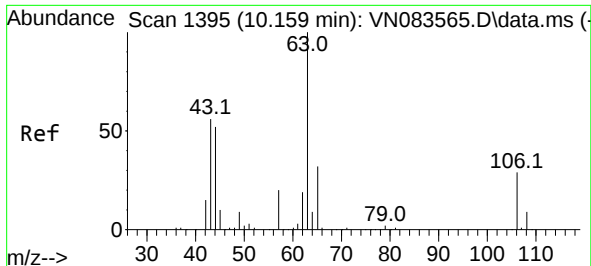
Tgt Ion: 43 Resp: 5631  
Ion Ratio Lower Upper  
43 100  
61 0.0 19.4 29.0#  
87 0.0 9.8 14.6#



#50  
Toluene-d8  
Concen: 46.470 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. -0.000 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

Tgt Ion: 98 Resp: 343584  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.0 78.0

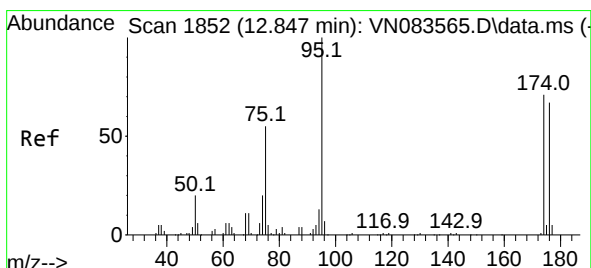
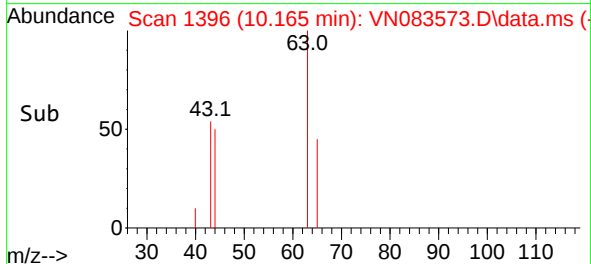
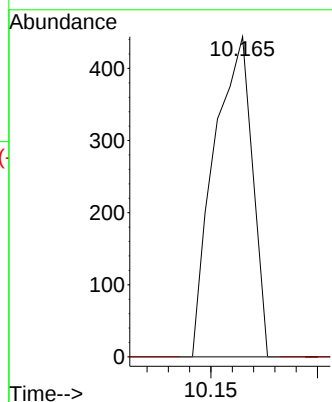
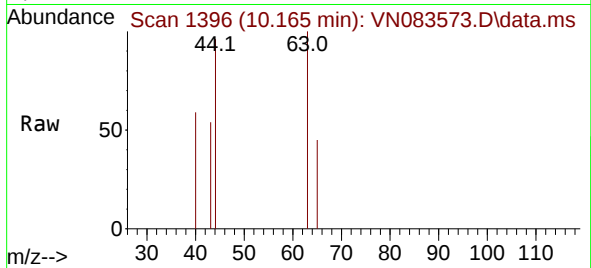




#58  
2-Chloroethyl Vinyl ether  
Concen: 0.387 ug/l  
RT: 10.165 min Scan# 1396  
Delta R.T. 0.006 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

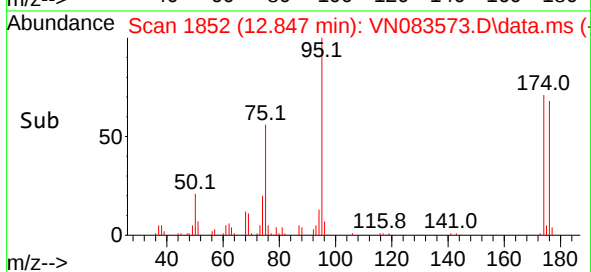
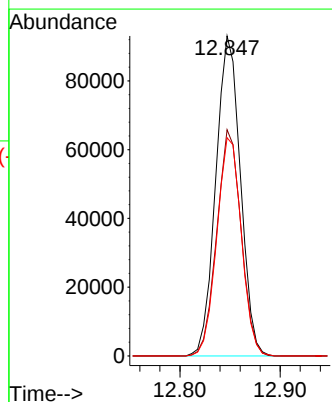
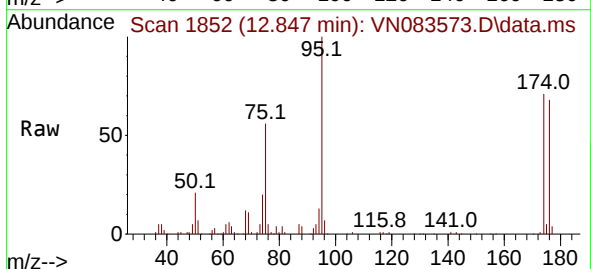
Instrument :  
MSVOA\_N  
ClientSampleId :

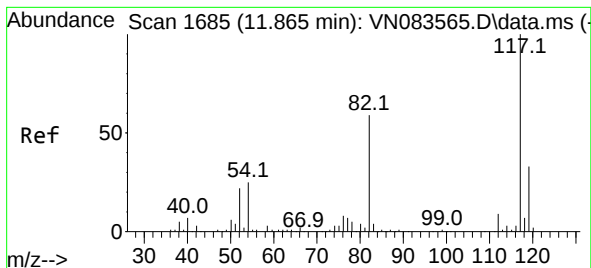
Tgt Ion: 63 Resp: 553  
Ion Ratio Lower Upper  
63 100  
106 0.0 23.3 34.9#



#62  
4-Bromofluorobenzene  
Concen: 57.729 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.000 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

Tgt Ion: 95 Resp: 158220  
Ion Ratio Lower Upper  
95 100  
174 69.7 0.0 139.8  
176 68.0 0.0 131.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN083573.D

Acq: 30 Aug 2024 14:04

Instrument :

MSVOA\_N

ClientSampleId :

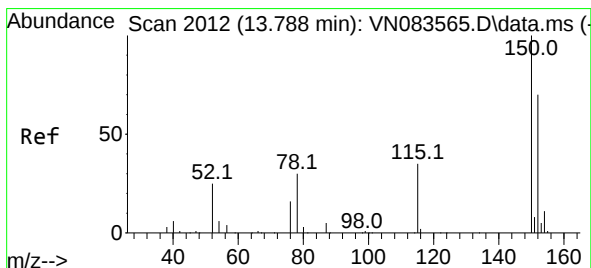
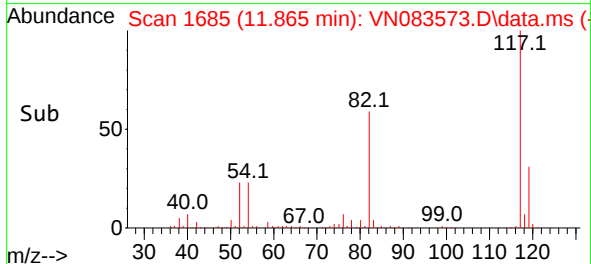
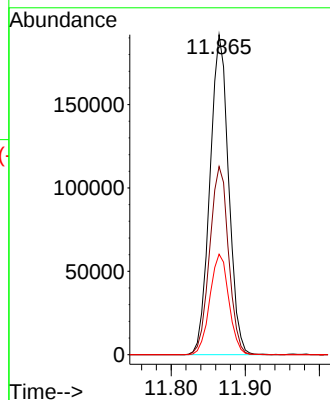
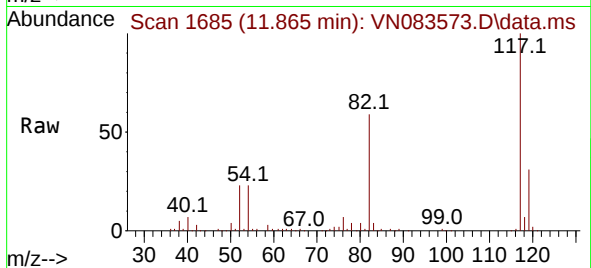
Tgt Ion:117 Resp: 335792

Ion Ratio Lower Upper

117 100

82 58.8 47.4 71.0

119 31.4 26.3 39.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. 0.000 min

Lab File: VN083573.D

Acq: 30 Aug 2024 14:04

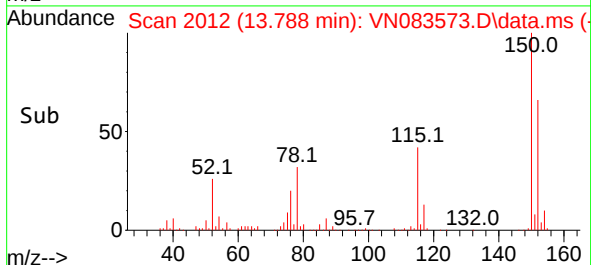
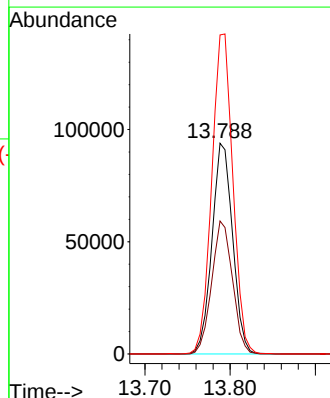
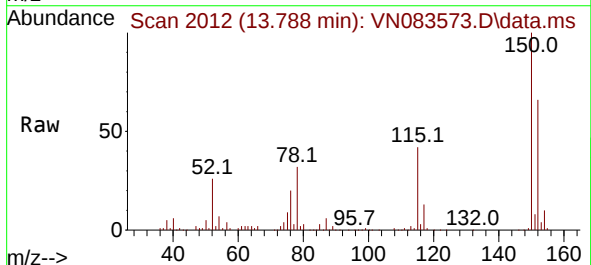
Tgt Ion:152 Resp: 158033

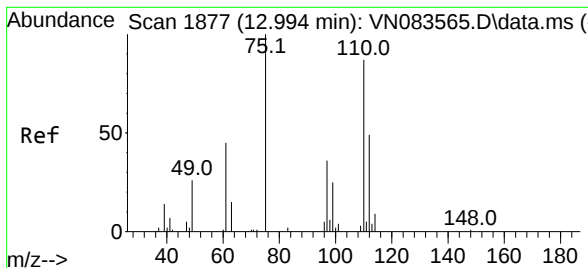
Ion Ratio Lower Upper

152 100

115 63.3 32.2 96.6

150 154.9 0.0 348.6





#76

1,2,3-Trichloropropane

Concen: 27.313 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN083573.D

Acq: 30 Aug 2024 14:04

Instrument :

MSVOA\_N

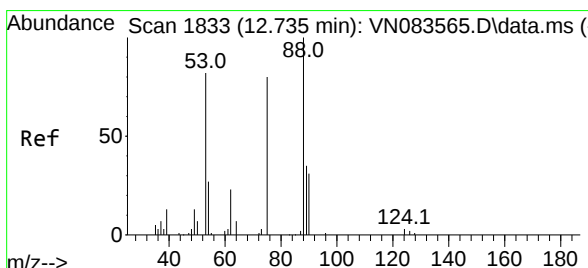
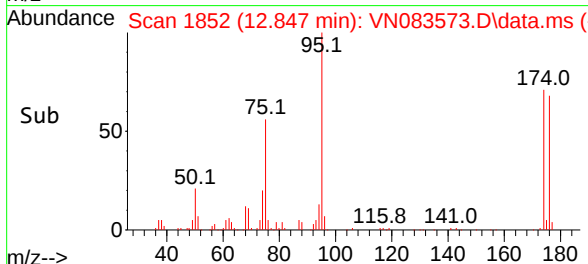
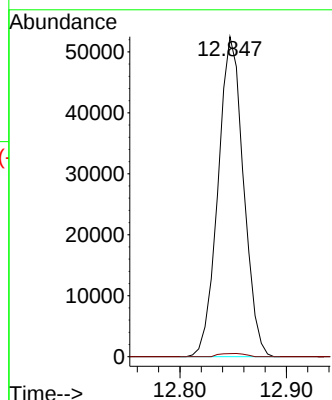
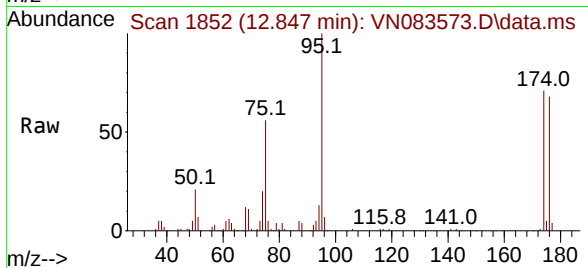
ClientSampleId :

Tgt Ion: 75 Resp: 87145

Ion Ratio Lower Upper

75 100

77 1.0 95.2 285.6#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.419 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN083573.D

Acq: 30 Aug 2024 14:04

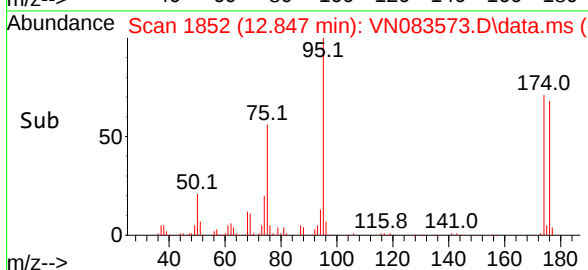
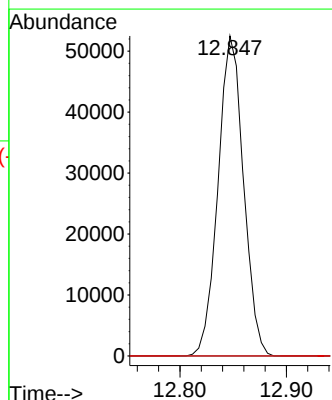
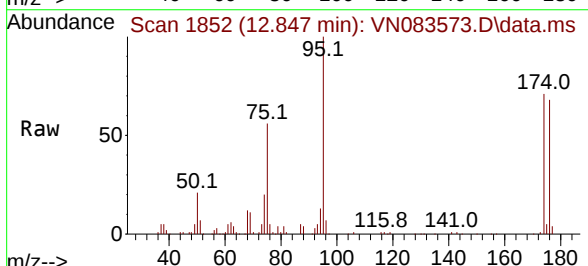
Tgt Ion: 75 Resp: 87145

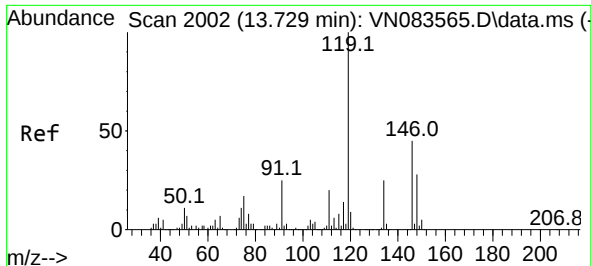
Ion Ratio Lower Upper

75 100

53 0.0 81.2 121.8#

89 0.0 35.7 53.5#





#87

1,3-Dichlorobenzene

Concen: 0.253 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.000 min

Lab File: VN083573.D

Acq: 30 Aug 2024 14:04

Instrument :

MSVOA\_N

ClientSampleId :

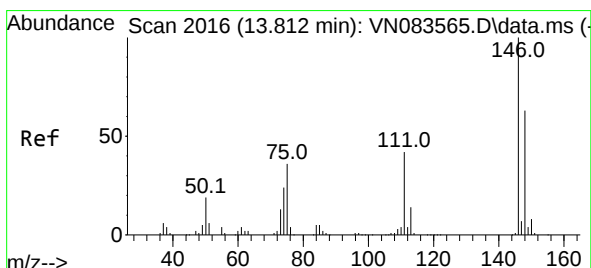
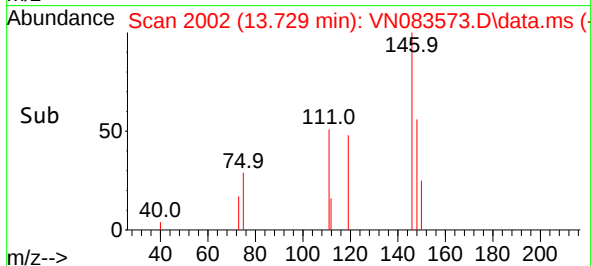
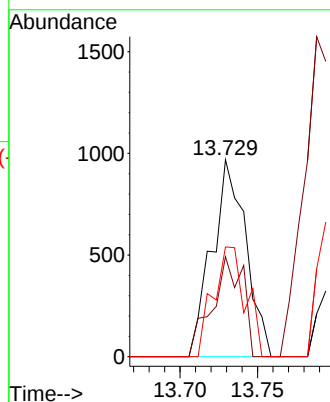
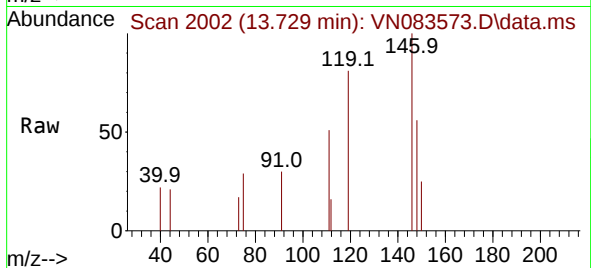
Tgt Ion:146 Resp: 1472

Ion Ratio Lower Upper

146 100

111 45.9 21.7 65.1

148 53.2 31.7 95.1



#88

1,4-Dichlorobenzene

Concen: 0.246 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.082 min

Lab File: VN083573.D

Acq: 30 Aug 2024 14:04

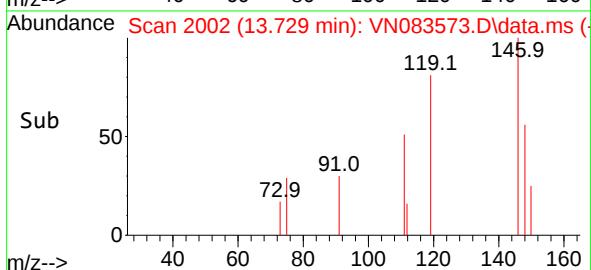
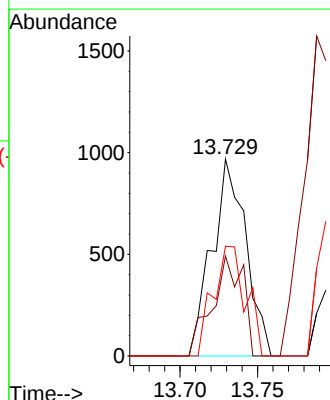
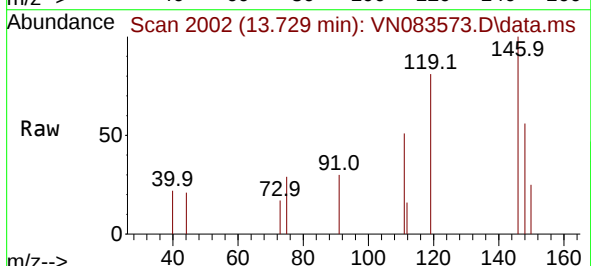
Tgt Ion:146 Resp: 1472

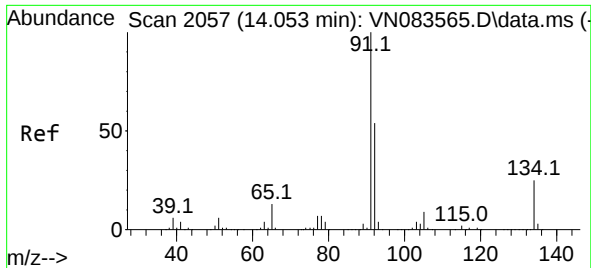
Ion Ratio Lower Upper

146 100

111 45.9 21.3 64.0

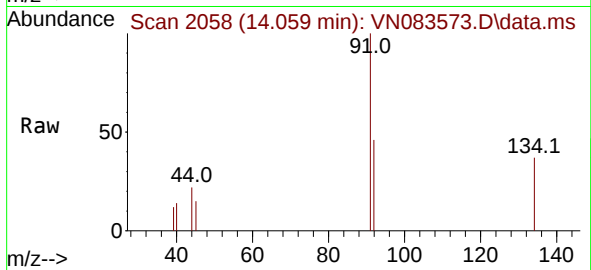
148 53.2 32.0 96.2





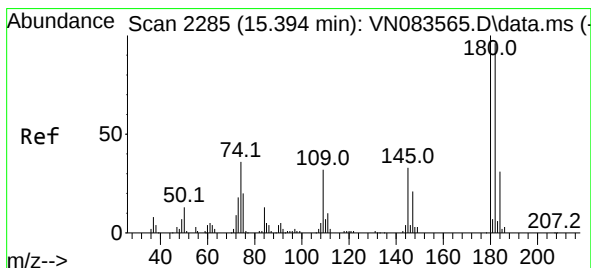
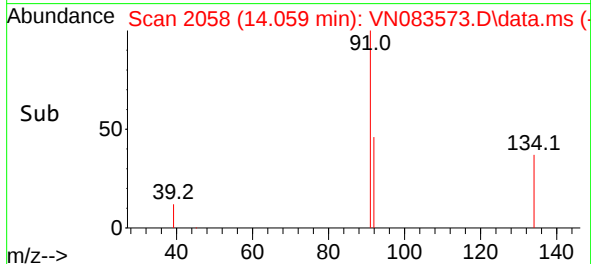
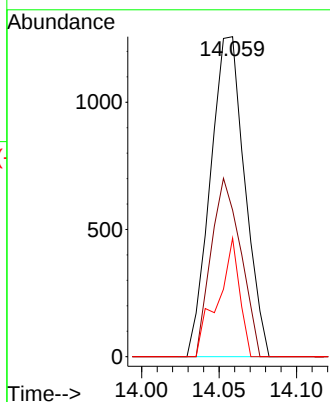
#89  
n-Butylbenzene  
Concen: 0.207 ug/l  
RT: 14.059 min Scan# 2058  
Delta R.T. 0.006 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

Instrument :  
MSVOA\_N  
ClientSampleId :



Tgt Ion: 91 Resp: 1939

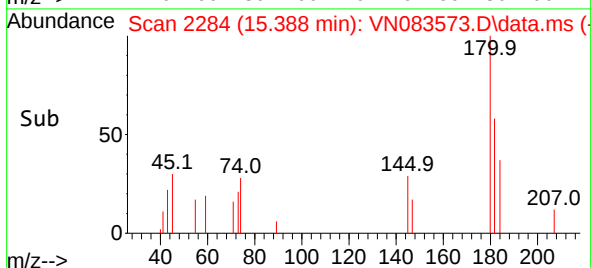
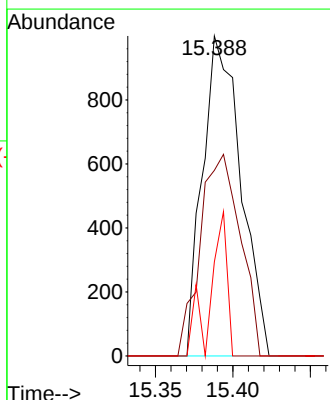
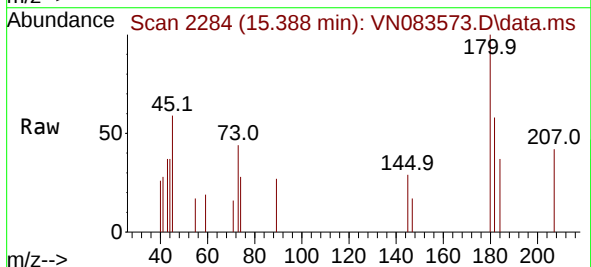
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 91  | 100   |       |       |
| 92  | 48.1  | 26.7  | 80.1  |
| 134 | 23.5  | 12.2  | 36.4  |

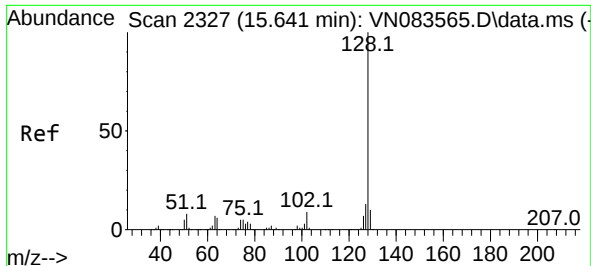


#93  
1,2,4-Trichlorobenzene  
Concen: 0.540 ug/l  
RT: 15.388 min Scan# 2284  
Delta R.T. -0.006 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

Tgt Ion: 180 Resp: 1718

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 180 | 100   |       |       |
| 182 | 65.9  | 48.1  | 144.3 |
| 145 | 19.9  | 16.9  | 50.7  |

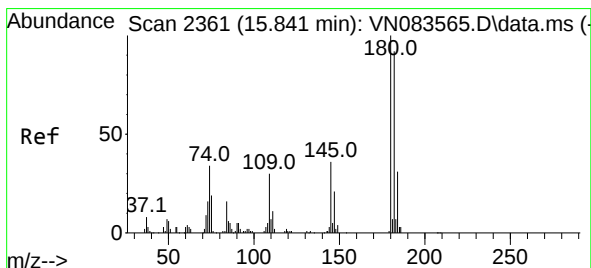
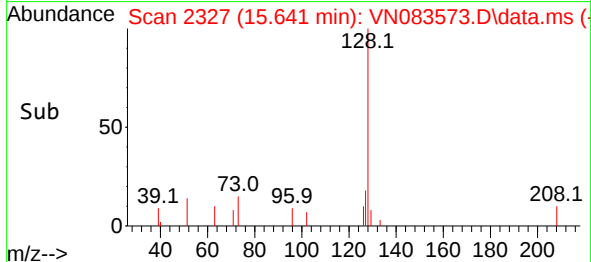
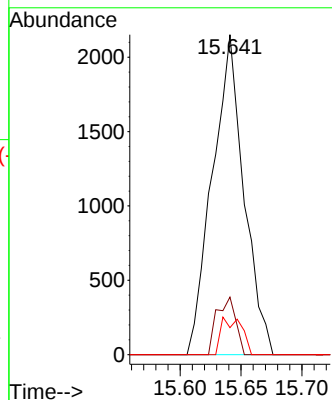
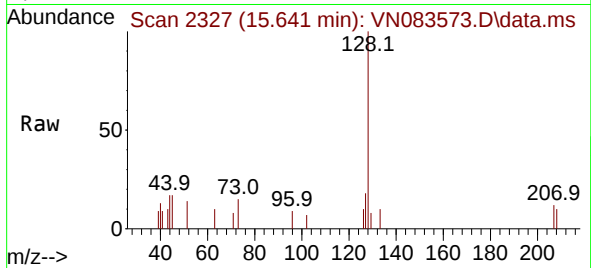




#95  
Naphthalene  
Concen: 0.379 ug/l  
RT: 15.641 min Scan# 2327  
Delta R.T. 0.000 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

Instrument :  
MSVOA\_N  
ClientSampleId :

Tgt Ion:128 Resp: 3871  
Ion Ratio Lower Upper  
128 100  
127 10.8 10.2 15.2  
129 7.6 8.7 13.1#



#96  
1,2,3-Trichlorobenzene  
Concen: 0.346 ug/l  
RT: 15.841 min Scan# 2361  
Delta R.T. 0.000 min  
Lab File: VN083573.D  
Acq: 30 Aug 2024 14:04

Tgt Ion:180 Resp: 1098  
Ion Ratio Lower Upper  
180 100  
182 95.3 47.1 141.4  
145 31.0 17.8 53.5

