

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091824\  
 Data File : VN083977.D  
 Acq On : 18 Sep 2024 12:53  
 Operator : JC\MD  
 Sample : VN0918WBL01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Sep 19 01:30:38 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 11 15:18:56 2024  
 Response via : Initial Calibration

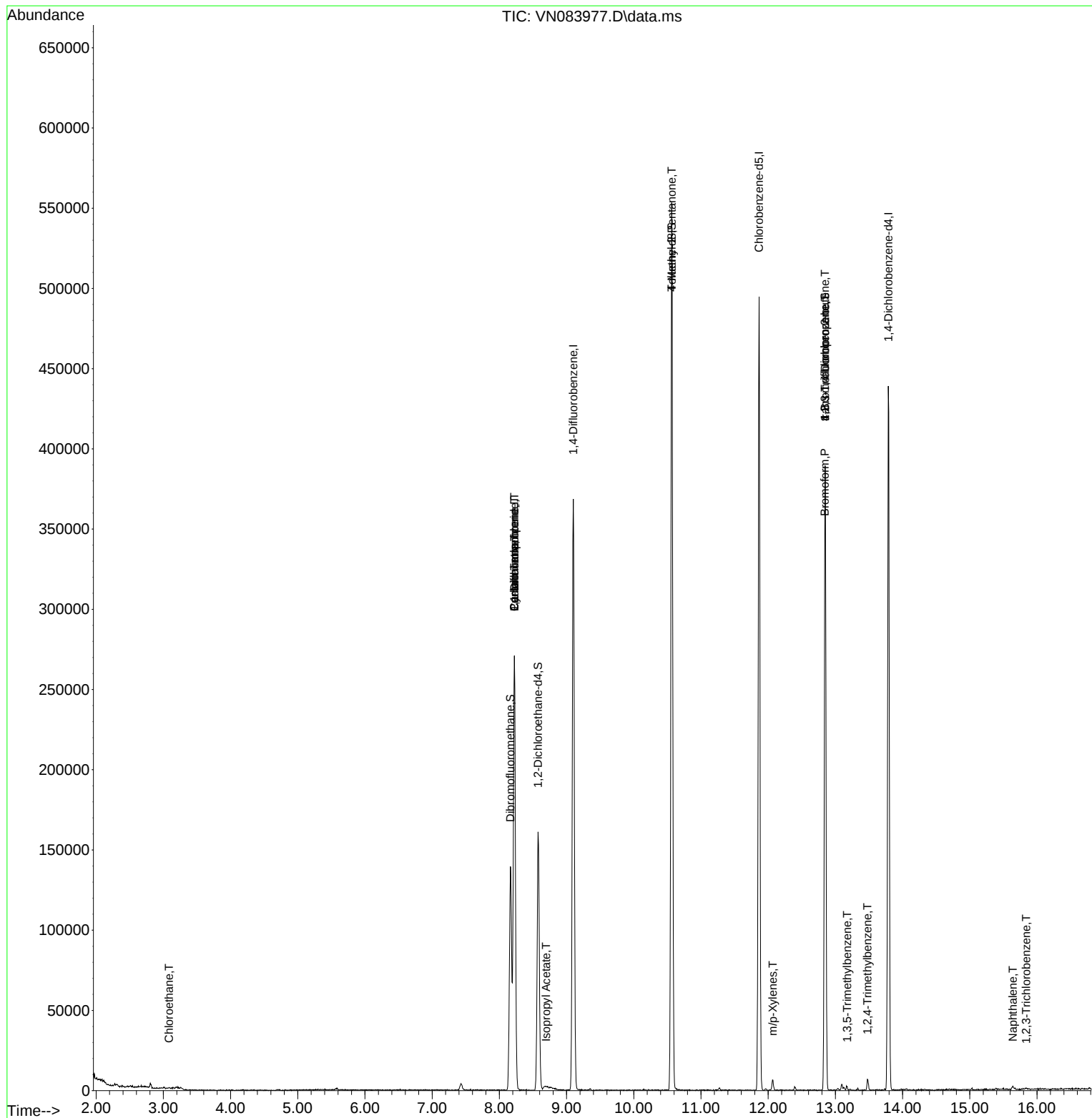
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 8.224  | 168            | 182313   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 9.100  | 114            | 308952   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.865 | 117            | 257981   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.788 | 152            | 110586   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.577  | 65             | 138311   | 50.313     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 125 | Recovery | = 100.620% |        |          |
| 35) Dibromofluoromethane      | 8.165  | 113            | 97406    | 49.248     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 98.500%  |        |          |
| 50) Toluene-d8                | 10.565 | 98             | 367733   | 53.781     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 86 - 113 | Recovery | = 107.560% |        |          |
| 62) 4-Bromofluorobenzene      | 12.847 | 95             | 136236   | 48.293     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 77 - 121 | Recovery | = 96.580%  |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 3) Chloromethane              | 2.365  | 50             | 256      | Below Cal  | #      | 41       |
| 6) Chloroethane               | 3.083  | 64             | 348      | 0.214      | ug/l # | 45       |
| 31) Cyclohexane               | 8.224  | 56             | 5187     | 1.306      | ug/l # | 20       |
| 36) 1,1-Dichloropropene       | 8.224  | 75             | 16761    | 5.630      | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 8.224  | 117            | 21735    | 6.435      | ug/l # | 17       |
| 43) Isopropyl Acetate         | 8.694  | 43             | 3458     | 0.706      | ug/l # | 57       |
| 51) 4-Methyl-2-Pentanone      | 10.565 | 43             | 1846     | 0.693      | ug/l # | 1        |
| 68) m/p-Xylenes               | 12.071 | 106            | 2096     | 0.554      | ug/l   | 88       |
| 71) Bromoform                 | 12.841 | 173            | 552      | 0.412      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.847 | 75             | 77939    | 34.928     | ug/l # | 1        |
| 80) 1,3,5-Trimethylbenzene    | 13.176 | 105            | 1520     | 0.211      | ug/l   | 95       |
| 81) trans-1,4-Dichloro-2-b... | 12.847 | 75             | 77939    | 91.480     | ug/l # | 9        |
| 84) 1,2,4-Trimethylbenzene    | 13.476 | 105            | 4194     | 0.579      | ug/l   | 99       |
| 95) Naphthalene               | 15.641 | 128            | 2624     | 0.428      | ug/l # | 83       |
| 96) 1,2,3-Trichlorobenzene    | 15.841 | 180            | 396      | 0.206      | ug/l # | 69       |
| -----                         |        |                |          |            |        |          |

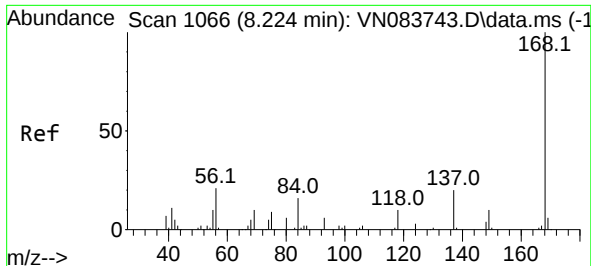
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN091824\  
Data File : VN083977.D  
Acq On : 18 Sep 2024 12:53  
Operator : JC\MD  
Sample : VN0918WBL01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :

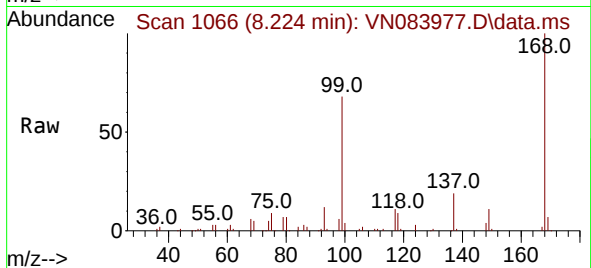
Quant Time: Sep 19 01:30:38 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N091024W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 11 15:18:56 2024  
Response via : Initial Calibration



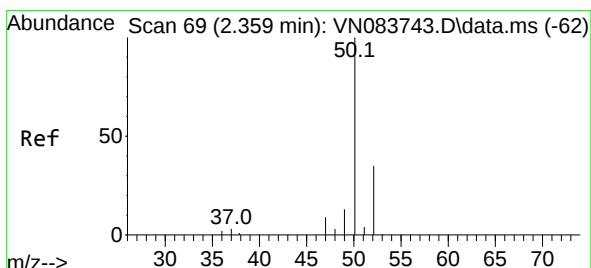
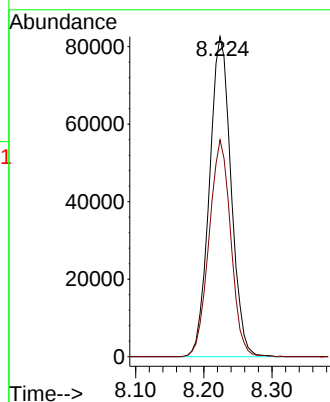
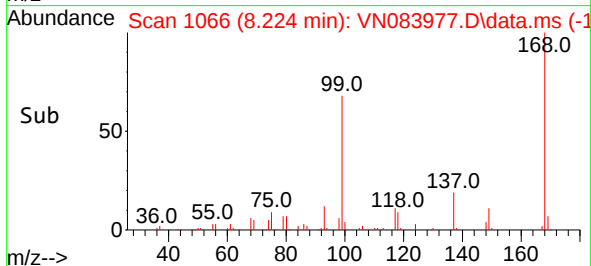


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.224 min Scan# 10  
Delta R.T. -0.000 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

Instrument :  
MSVOA\_N  
ClientSampleId :

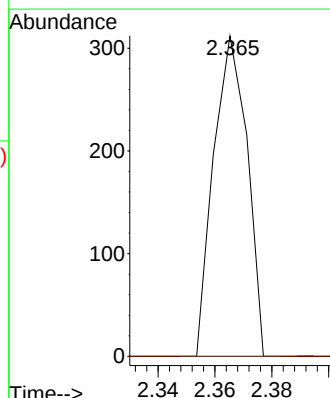
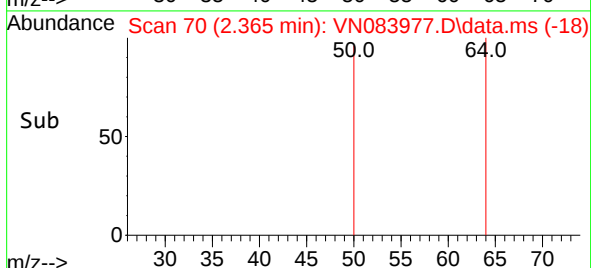
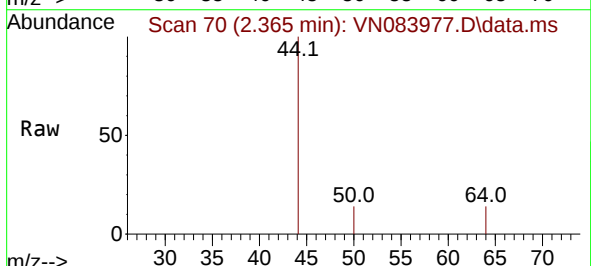


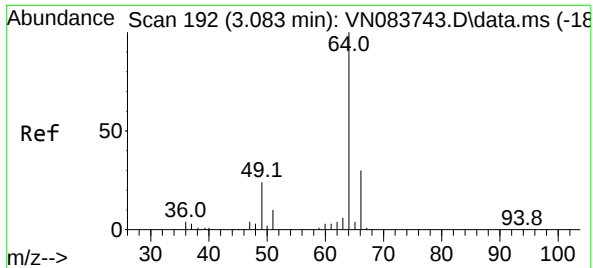
Tgt Ion:168 Resp: 182313  
Ion Ratio Lower Upper  
168 100  
99 67.7 54.2 81.2



#3  
Chloromethane  
Concen: Below Cal  
RT: 2.365 min Scan# 70  
Delta R.T. 0.006 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

Tgt Ion: 50 Resp: 256  
Ion Ratio Lower Upper  
50 100  
52 0.0 27.2 40.8#

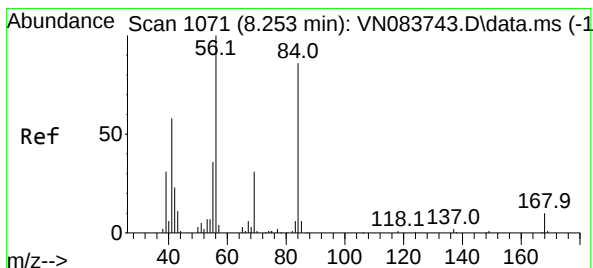
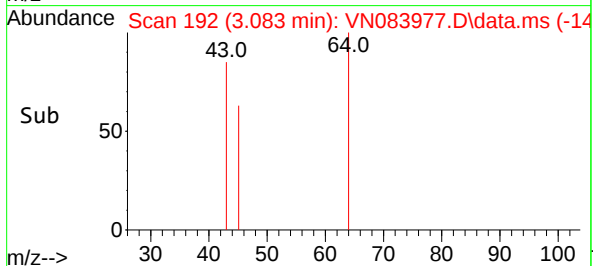
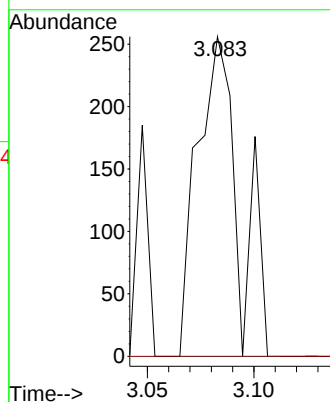
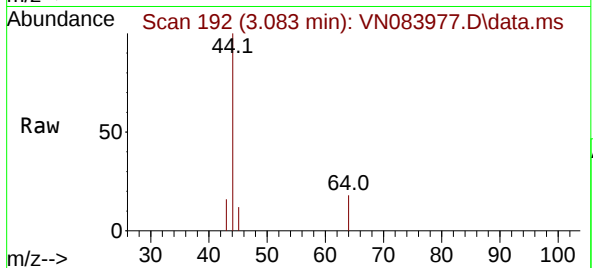




#6  
Chloroethane  
Concen: 0.214 ug/l  
RT: 3.083 min Scan# 192  
Delta R.T. -0.000 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

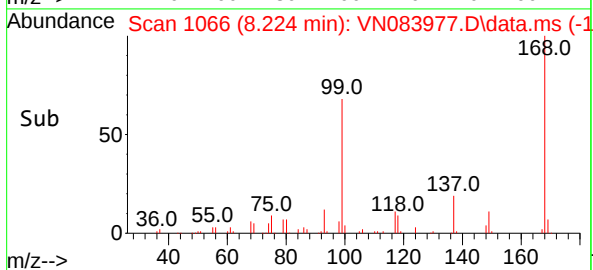
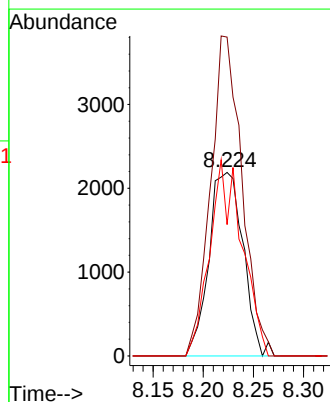
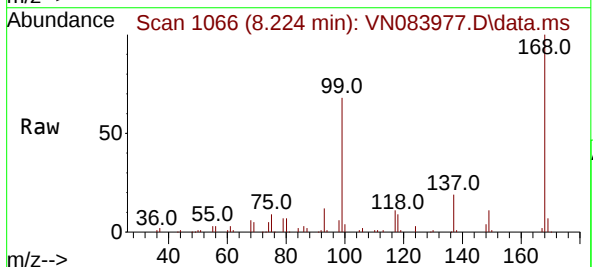
Instrument :  
MSVOA\_N  
ClientSampleId :

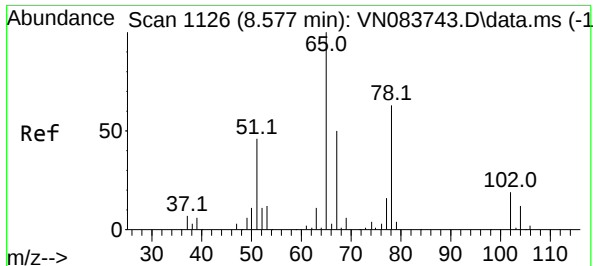
Tgt Ion: 64 Resp: 348  
Ion Ratio Lower Upper  
64 100  
66 0.0 23.9 35.9#



#31  
Cyclohexane  
Concen: 1.306 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.029 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

Tgt Ion: 56 Resp: 5187  
Ion Ratio Lower Upper  
56 100  
69 173.7 26.9 40.3#  
84 71.6 69.2 103.8





#33

1,2-Dichloroethane-d4

Concen: 50.313 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN083977.D

Acq: 18 Sep 2024 12:53

Instrument :

MSVOA\_N

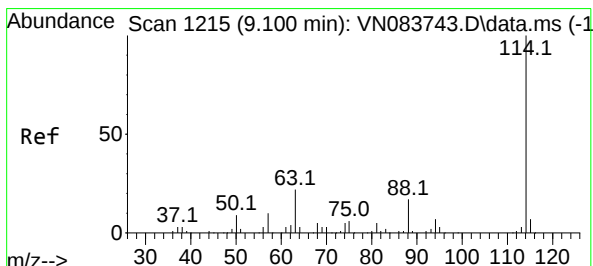
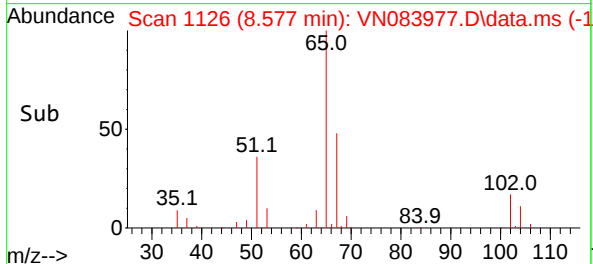
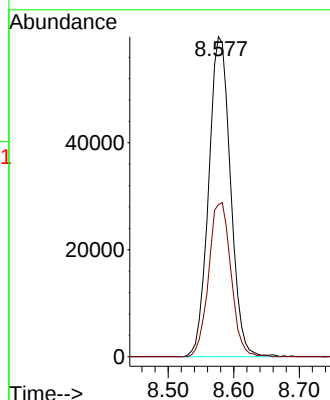
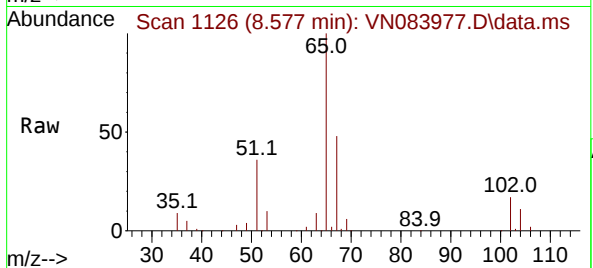
ClientSampleId :

Tgt Ion: 65 Resp: 138311

Ion Ratio Lower Upper

65 100

67 49.1 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN083977.D

Acq: 18 Sep 2024 12:53

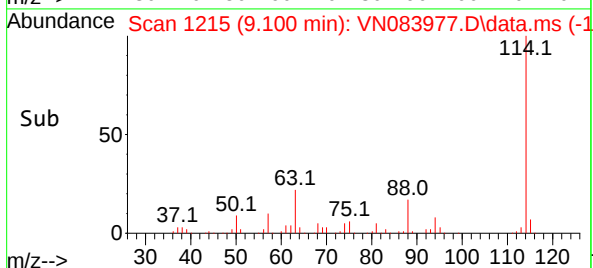
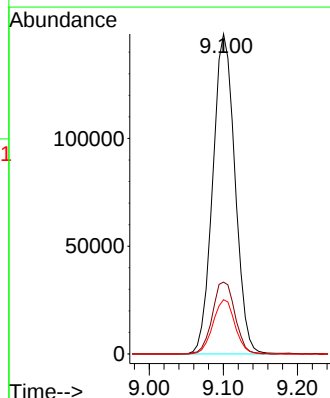
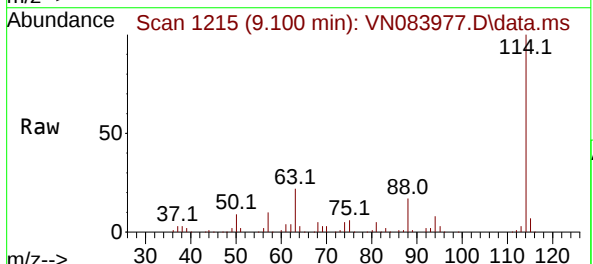
Tgt Ion: 114 Resp: 308952

Ion Ratio Lower Upper

114 100

63 22.5 0.0 43.4

88 16.9 0.0 32.6





#35

Dibromofluoromethane

Concen: 49.248 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

Lab File: VN083977.D

Acq: 18 Sep 2024 12:53

Instrument :

MSVOA\_N

ClientSampleId :

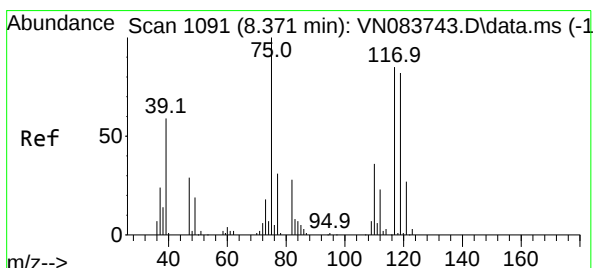
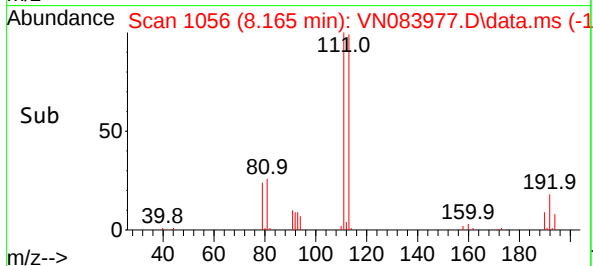
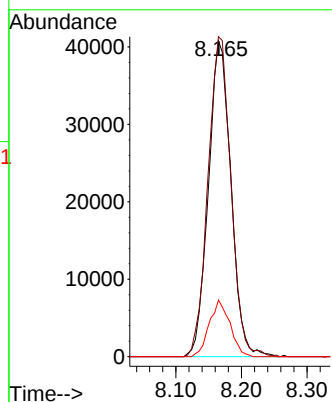
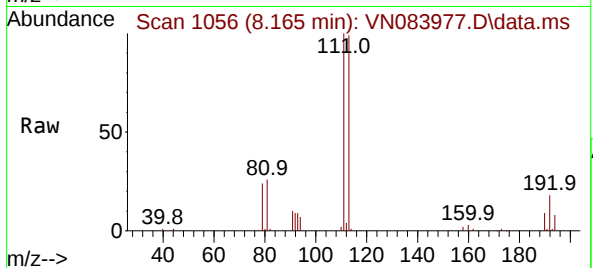
Tgt Ion:113 Resp: 97406

Ion Ratio Lower Upper

113 100

111 102.9 82.6 124.0

192 16.5 14.3 21.5



#36

1,1-Dichloropropene

Concen: 5.630 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN083977.D

Acq: 18 Sep 2024 12:53

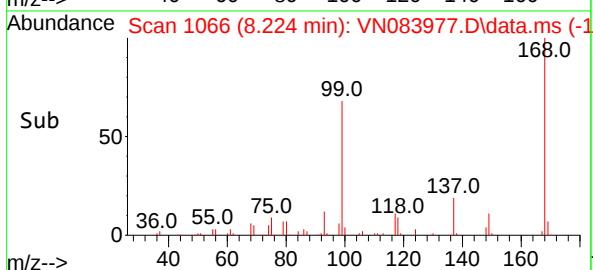
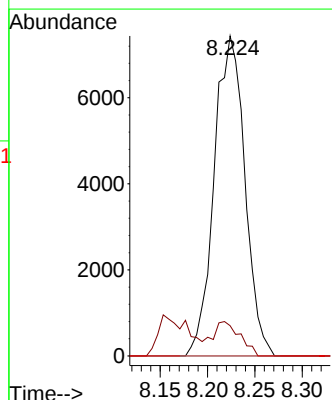
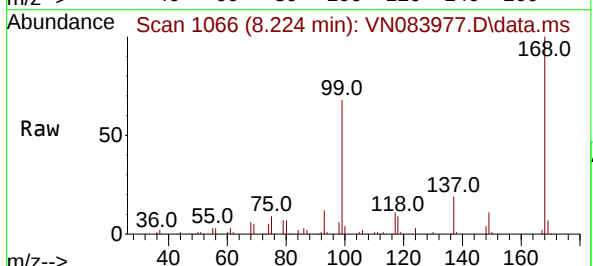
Tgt Ion: 75 Resp: 16761

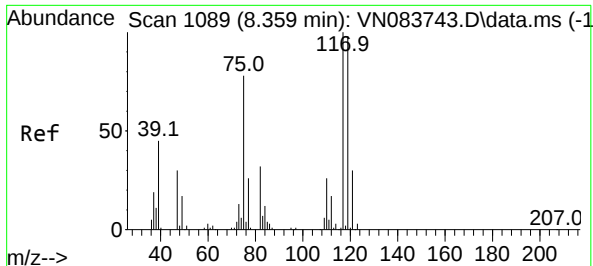
Ion Ratio Lower Upper

75 100

110 9.6 16.7 50.1#

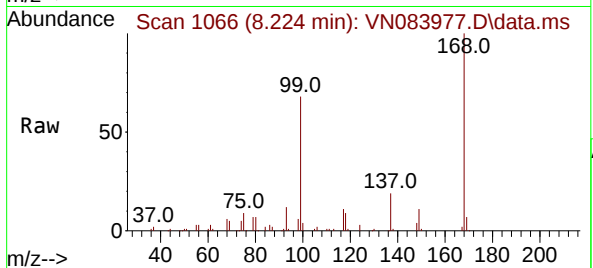
77 0.0 25.2 37.8#



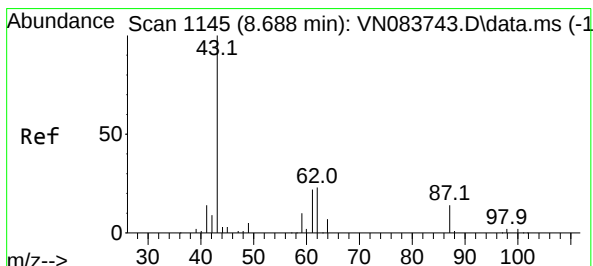
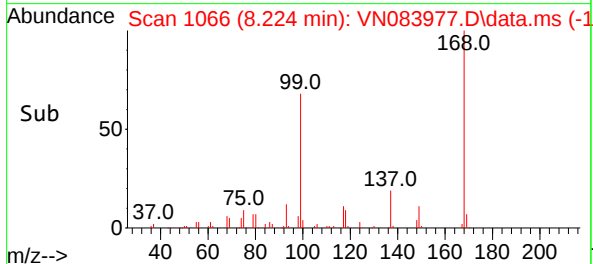
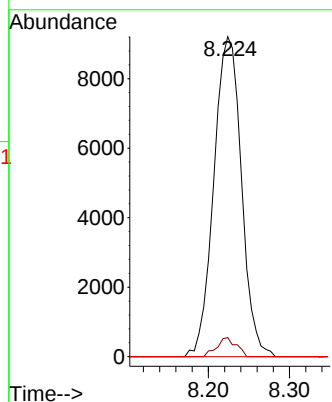


#38  
Carbon Tetrachloride  
Concen: 6.435 ug/l  
RT: 8.224 min Scan# 1066  
Delta R.T. -0.135 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

Instrument :  
MSVOA\_N  
ClientSampleId :

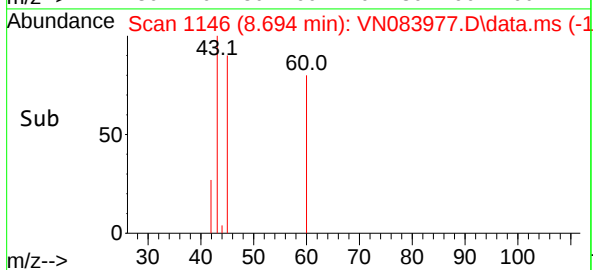
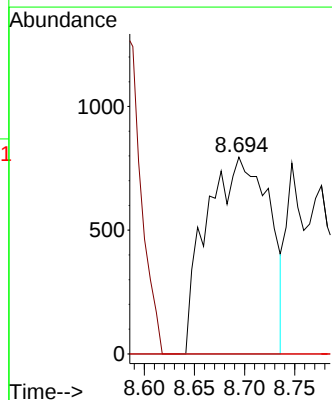
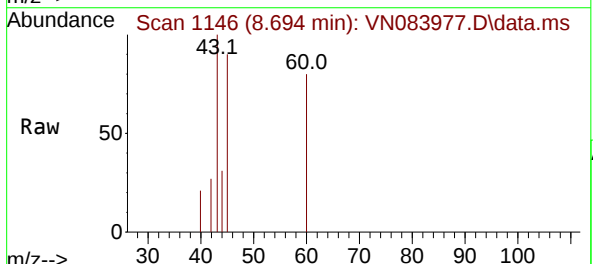


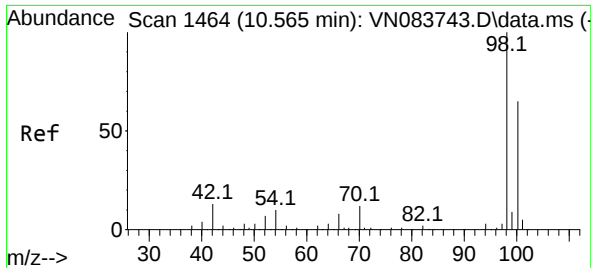
Tgt Ion:117 Resp: 21735  
Ion Ratio Lower Upper  
117 100  
119 6.0 76.1 114.1#  
121 0.0 24.1 36.1#



#43  
Isopropyl Acetate  
Concen: 0.706 ug/l  
RT: 8.694 min Scan# 1146  
Delta R.T. 0.006 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

Tgt Ion: 43 Resp: 3458  
Ion Ratio Lower Upper  
43 100  
61 0.0 19.4 29.0#  
87 0.0 9.8 14.6#

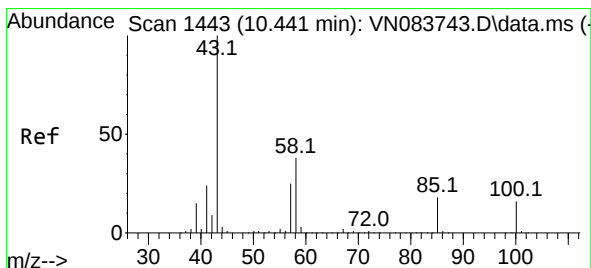
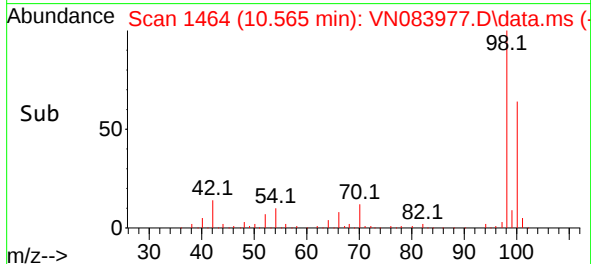
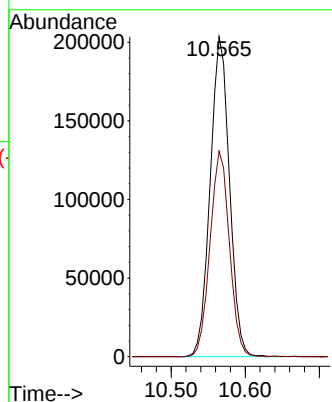
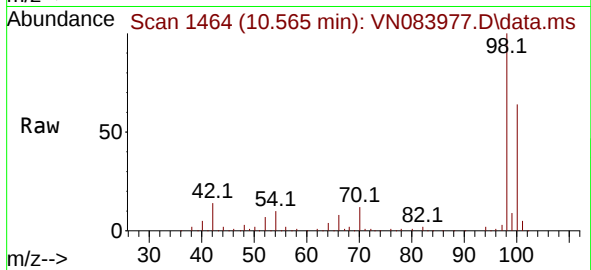




#50  
Toluene-d8  
Concen: 53.781 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.000 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

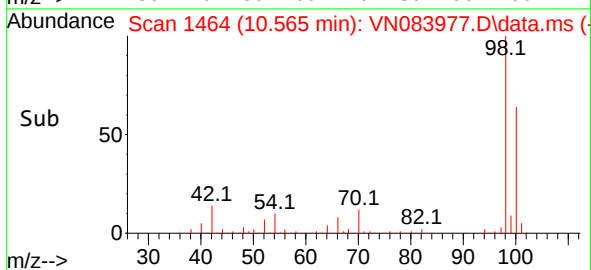
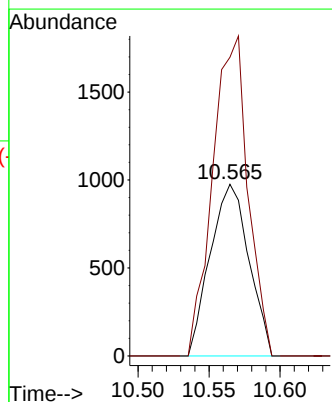
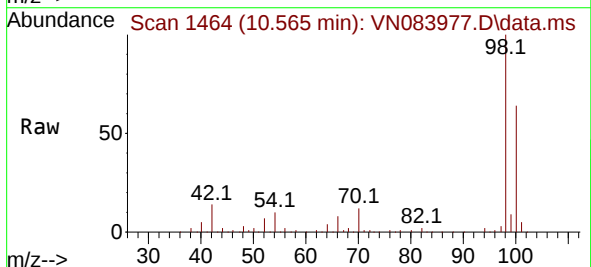
Instrument :  
MSVOA\_N  
ClientSampleId :

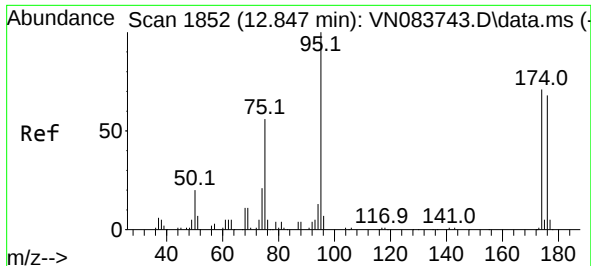
Tgt Ion: 98 Resp: 367733  
Ion Ratio Lower Upper  
98 100  
100 64.6 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.693 ug/l  
RT: 10.565 min Scan# 1464  
Delta R.T. 0.124 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

Tgt Ion: 43 Resp: 1846  
Ion Ratio Lower Upper  
43 100  
58 170.6 31.6 47.4#

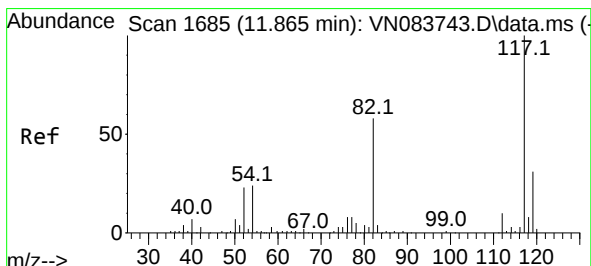
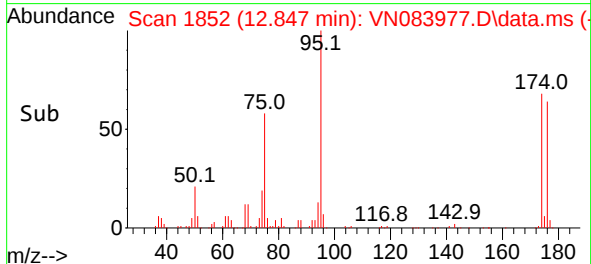
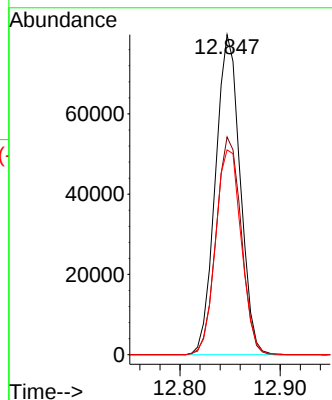
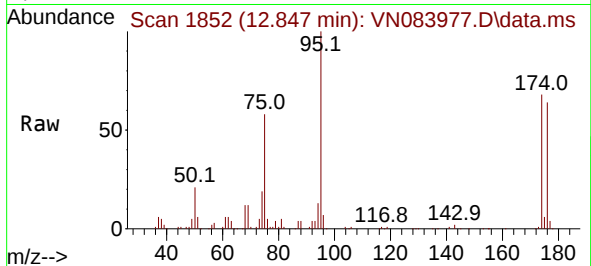




#62  
4-Bromofluorobenzene  
Concen: 48.293 ug/l  
RT: 12.847 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

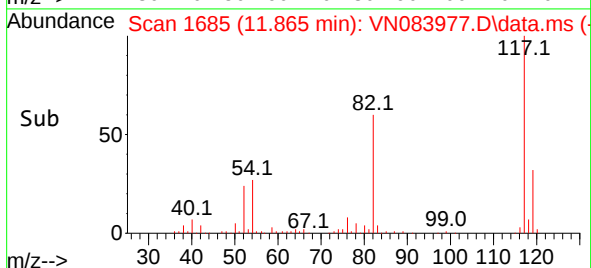
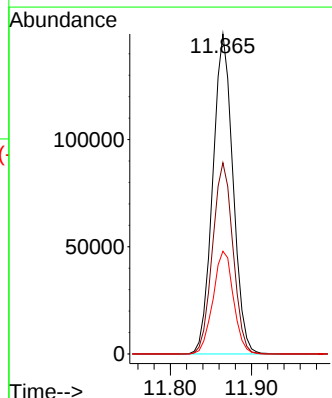
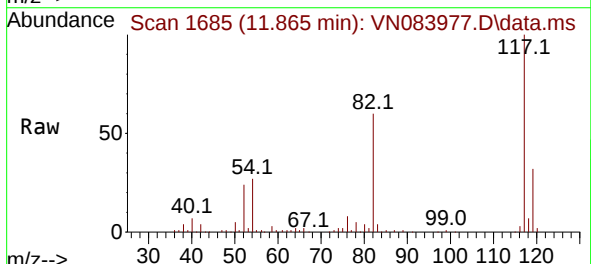
Instrument :  
MSVOA\_N  
ClientSampleId :

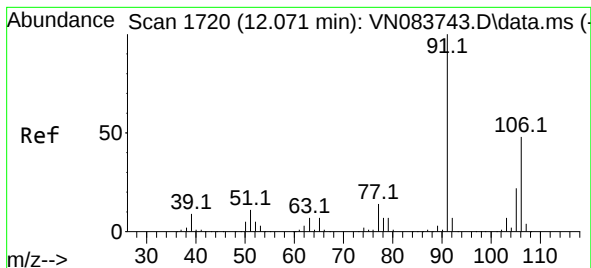
Tgt Ion: 95 Resp: 136236  
Ion Ratio Lower Upper  
95 100  
174 69.1 0.0 139.8  
176 66.9 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.865 min Scan# 1685  
Delta R.T. 0.000 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

Tgt Ion: 117 Resp: 257981  
Ion Ratio Lower Upper  
117 100  
82 59.8 47.4 71.0  
119 32.1 26.3 39.5

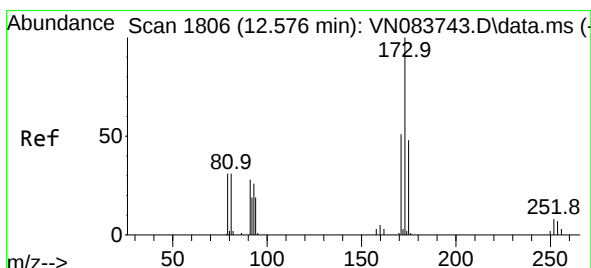
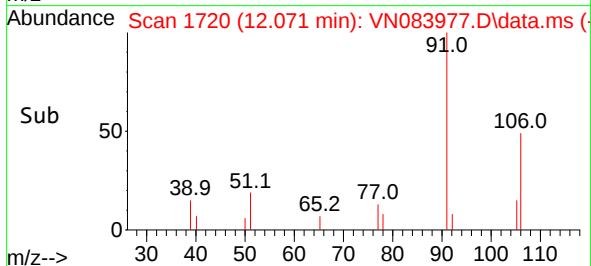
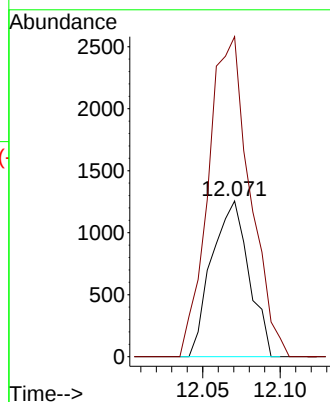
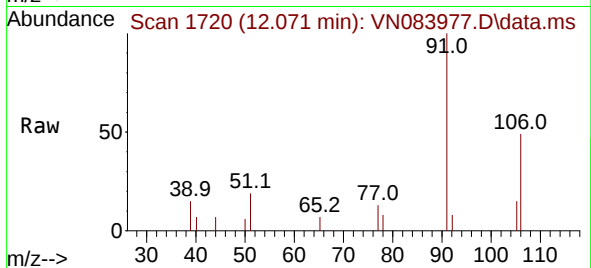




#68  
m/p-Xylenes  
Concen: 0.554 ug/l  
RT: 12.071 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

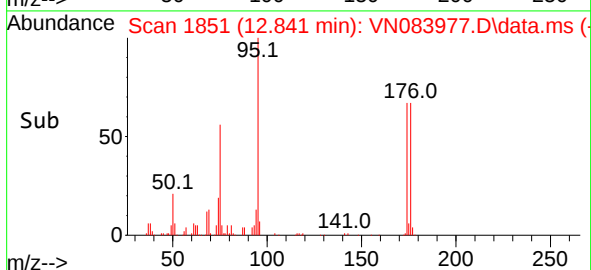
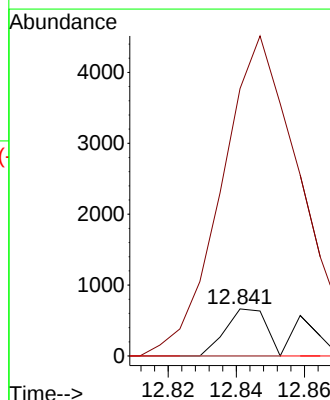
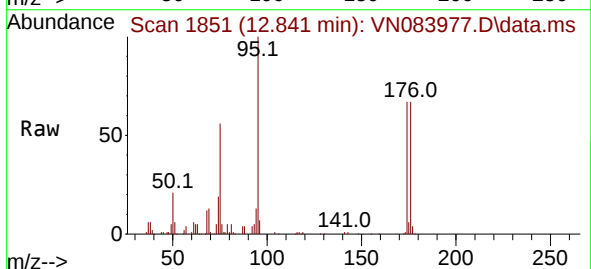
Instrument :  
MSVOA\_N  
ClientSampleId :

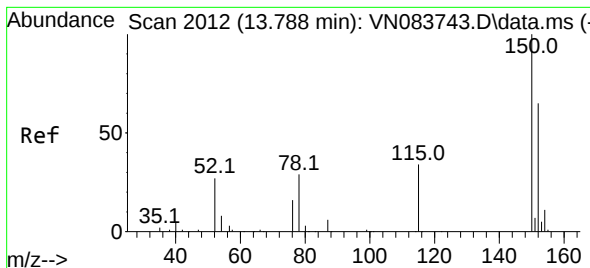
Tgt Ion:106 Resp: 2096  
Ion Ratio Lower Upper  
106 100  
91 230.1 169.2 253.8



#71  
Bromoform  
Concen: 0.412 ug/l  
RT: 12.841 min Scan# 1851  
Delta R.T. 0.265 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

Tgt Ion:173 Resp: 552  
Ion Ratio Lower Upper  
173 100  
175 1006.0 24.1 72.2#  
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 20

Delta R.T. 0.000 min

Lab File: VN083977.D

Acq: 18 Sep 2024 12:53

Instrument :

MSVOA\_N

ClientSampleId :

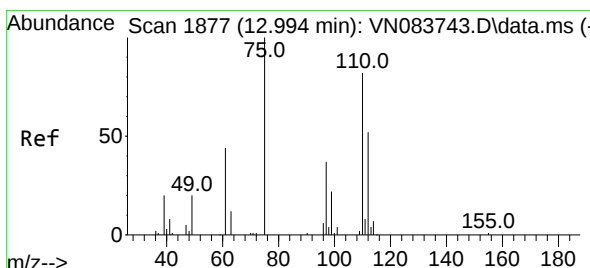
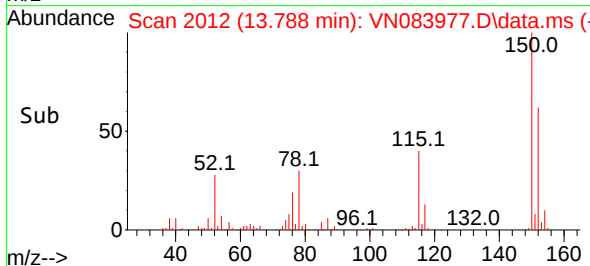
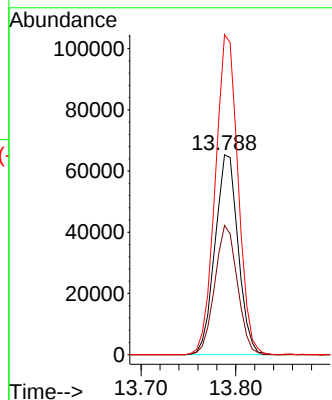
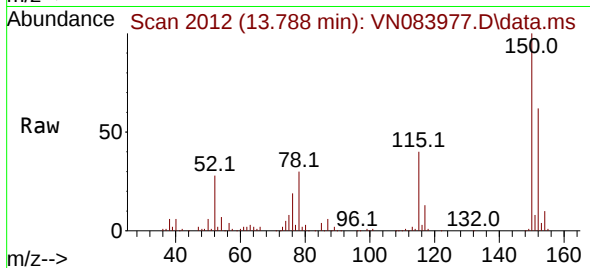
Tgt Ion:152 Resp: 110586

Ion Ratio Lower Upper

152 100

115 63.6 32.2 96.6

150 158.2 0.0 348.6



#76

1,2,3-Trichloropropane

Concen: 34.928 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.147 min

Lab File: VN083977.D

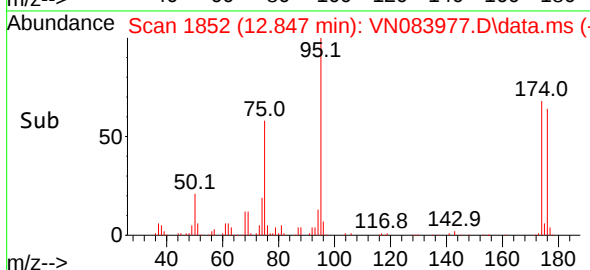
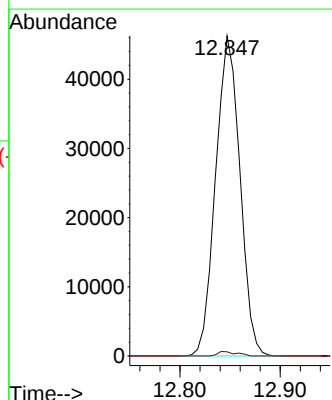
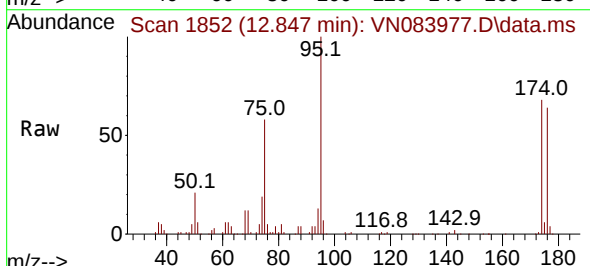
Acq: 18 Sep 2024 12:53

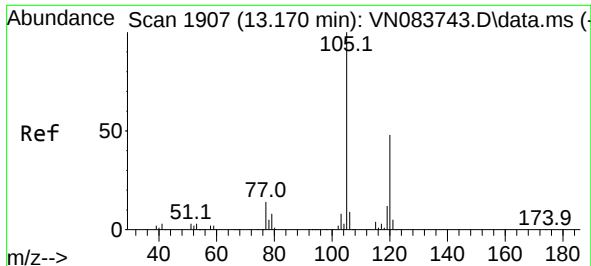
Tgt Ion: 75 Resp: 77939

Ion Ratio Lower Upper

75 100

77 1.1 95.2 285.6#

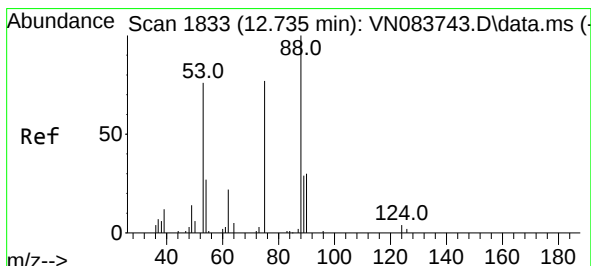
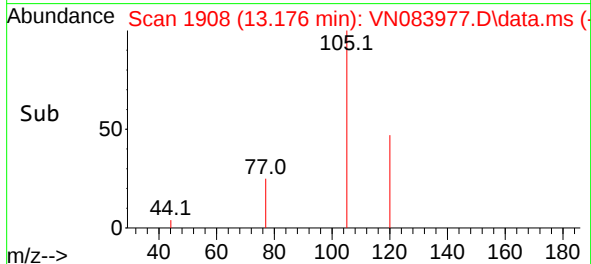
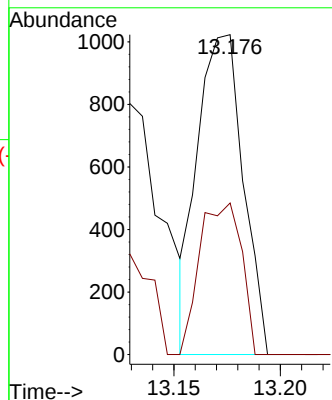
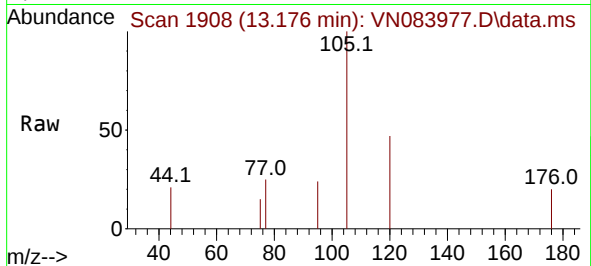




#80  
1,3,5-Trimethylbenzene  
Concen: 0.211 ug/l  
RT: 13.176 min Scan# 1907  
Delta R.T. 0.006 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

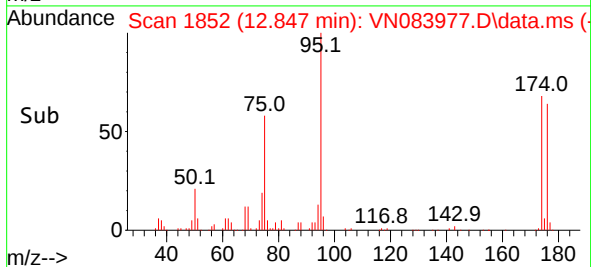
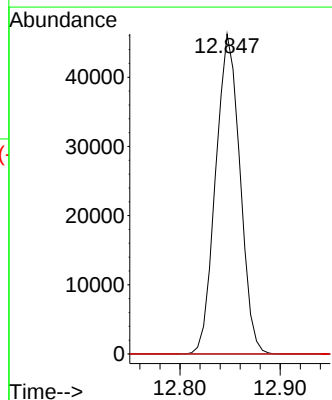
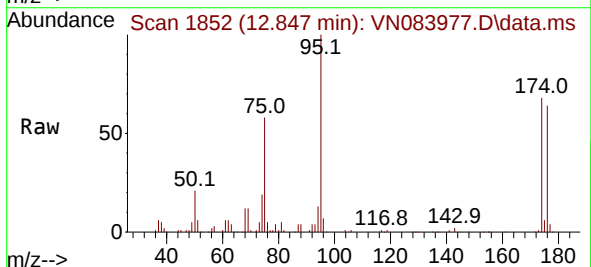
Instrument :  
MSVOA\_N  
ClientSampleId :

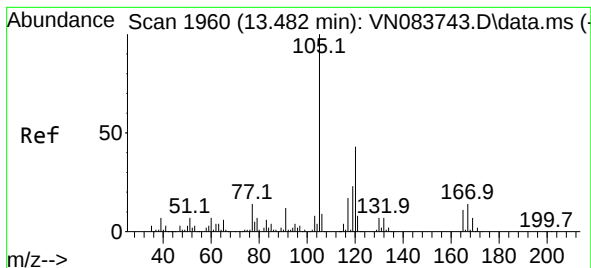
Tgt Ion:105 Resp: 1520  
Ion Ratio Lower Upper  
105 100  
120 43.6 23.4 70.3



#81  
trans-1,4-Dichloro-2-butene  
Concen: 91.480 ug/l  
RT: 12.847 min Scan# 1852  
Delta R.T. 0.112 min  
Lab File: VN083977.D  
Acq: 18 Sep 2024 12:53

Tgt Ion: 75 Resp: 77939  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.2 121.8#  
89 0.0 35.7 53.5#





#84

1,2,4-Trimethylbenzene

Concen: 0.579 ug/l

RT: 13.476 min Scan# 1959

Delta R.T. -0.006 min

Lab File: VN083977.D

Acq: 18 Sep 2024 12:53

Instrument :

MSVOA\_N

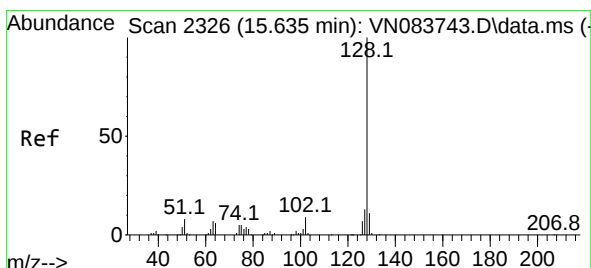
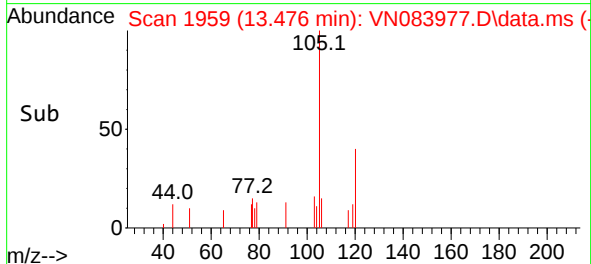
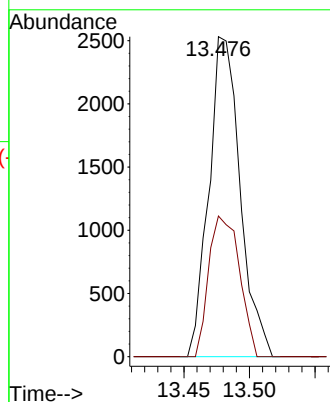
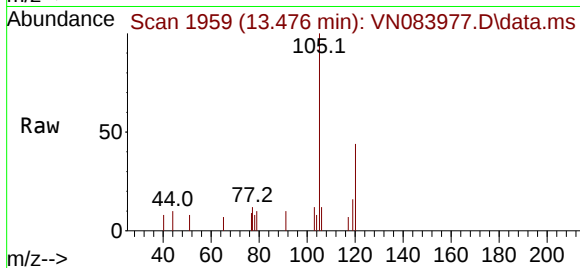
ClientSampleId :

Tgt Ion:105 Resp: 4194

Ion Ratio Lower Upper

105 100

120 43.1 21.8 65.4



#95

Naphthalene

Concen: 0.428 ug/l

RT: 15.641 min Scan# 2327

Delta R.T. 0.006 min

Lab File: VN083977.D

Acq: 18 Sep 2024 12:53

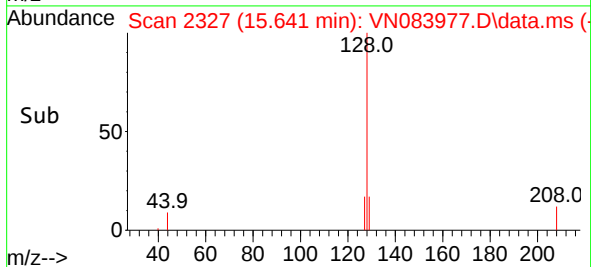
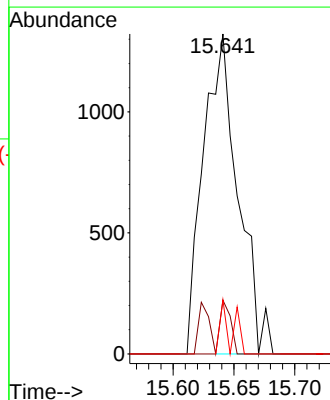
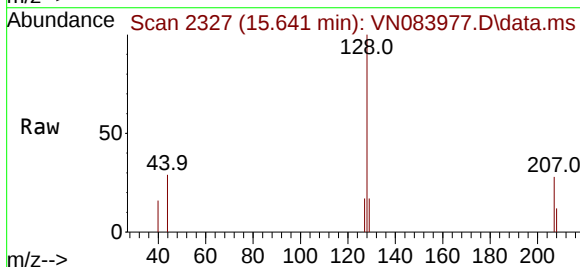
Tgt Ion:128 Resp: 2624

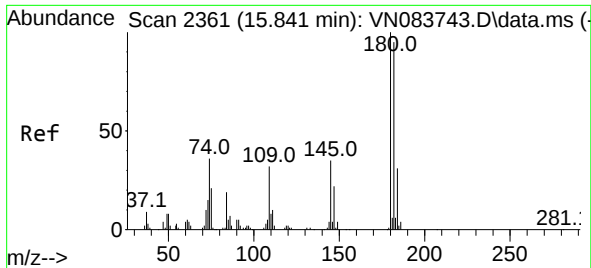
Ion Ratio Lower Upper

128 100

127 5.1 10.2 15.2#

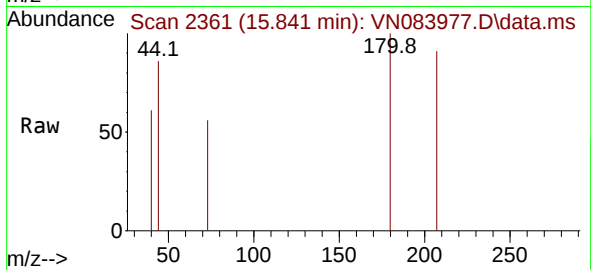
129 5.6 8.7 13.1#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.206 ug/l  
 RT: 15.841 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VN083977.D  
 Acq: 18 Sep 2024 12:53

Instrument :  
 MSVOA\_N  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 396   |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 75.5  | 47.1  | 141.4 |
| 145      | 0.0   | 17.8  | 53.5# |

