

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD110321\  
 Data File : VD070906.D  
 Acq On : 03 Nov 2021 13:11  
 Operator : VA/SY  
 Sample : M4407-04  
 Misc : 5.49G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 03 22:09:32 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D102621S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 27 05:34:47 2021  
 Response via : Initial Calibration

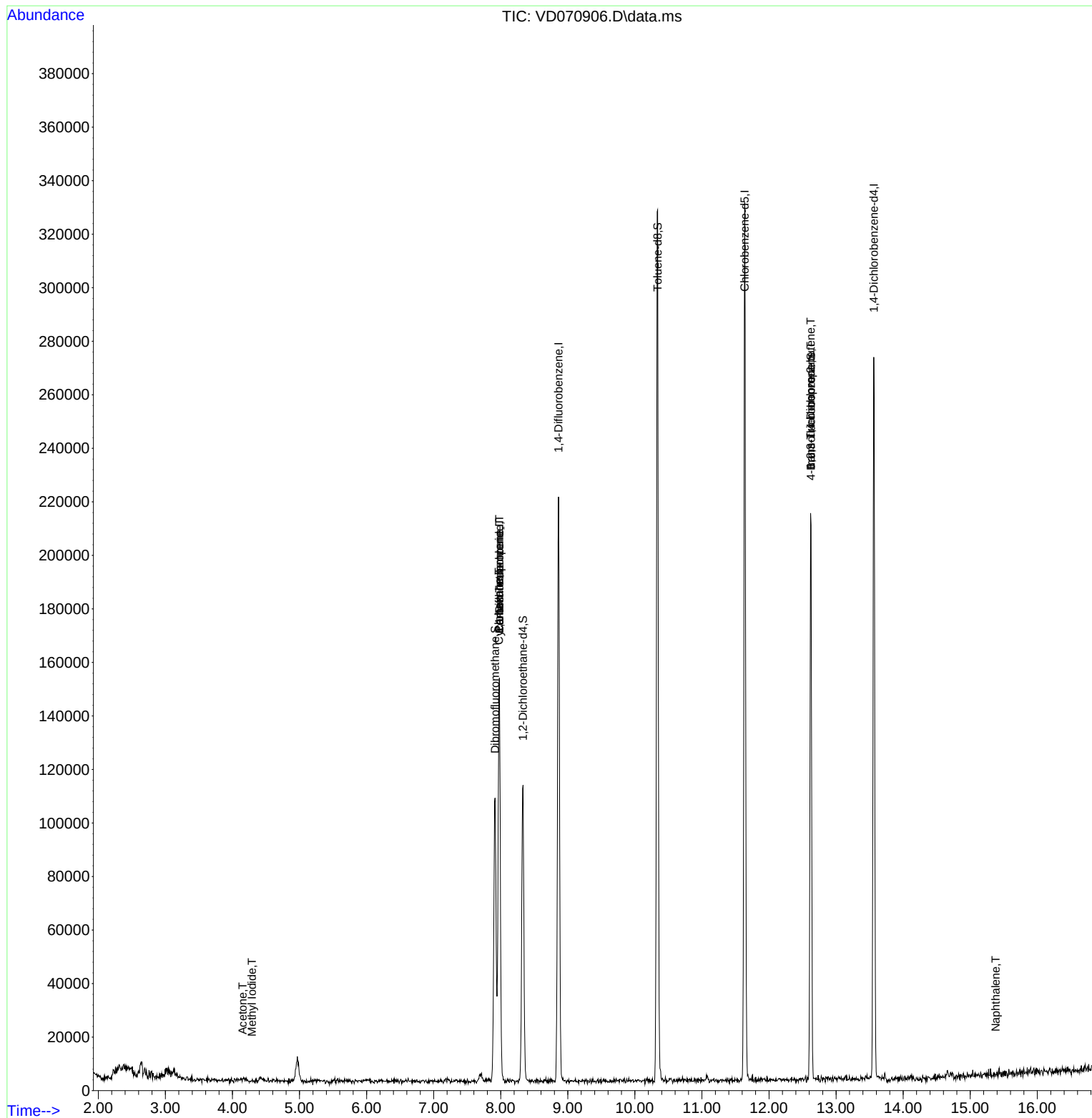
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.979  | 168   | 116480   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.861  | 114   | 189374   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.638 | 117   | 197093   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561 | 152   | 77159    | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.332  | 65    | 85648    | 73.110    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 146.220% |          |
| 35) Dibromofluoromethane      | 7.915  | 113   | 79186    | 63.418    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 126.840% |          |
| 50) Toluene-d8                | 10.338 | 98    | 235671   | 50.169    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | = 100.340% |          |
| 62) 4-Bromofluorobenzene      | 12.626 | 95    | 73502    | 47.422    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | = 94.840%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 5) Bromomethane               | 2.803  | 94    | 988      | Below Cal | #          | 58       |
| 10) Methyl Iodide             | 4.291  | 142   | 82       | 3.664     | ug/l #     | 40       |
| 16) Acetone                   | 4.150  | 43    | 984      | 3.610     | ug/l #     | 40       |
| 20) Methylene Chloride        | 4.956  | 84    | 4204     | Below Cal | #          | 77       |
| 31) Cyclohexane               | 7.973  | 56    | 2532     | 1.061     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.979  | 75    | 8747     | 4.415     | ug/l #     | 47       |
| 38) Carbon Tetrachloride      | 7.979  | 117   | 11745    | 5.895     | ug/l #     | 18       |
| 76) 1,2,3-Trichloropropane    | 12.620 | 75    | 33157    | 43.653    | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.620 | 75    | 33157    | 114.573   | ug/l #     | 18       |
| 95) Naphthalene               | 15.379 | 128   | 570      | 4.340     | ug/l #     | 69       |
| -----                         |        |       |          |           |            |          |

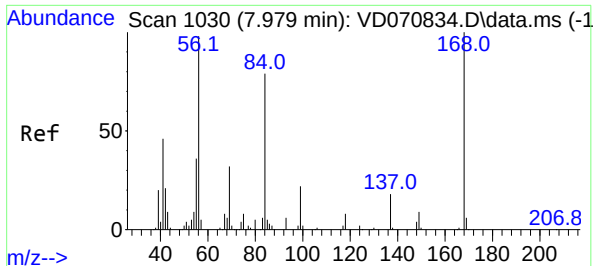
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
ClientSampleId :

Quant Time: Nov 03 22:09:32 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D102621S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 27 05:34:47 2021  
Response via : Initial Calibration

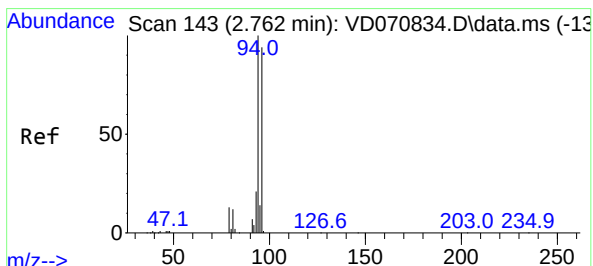
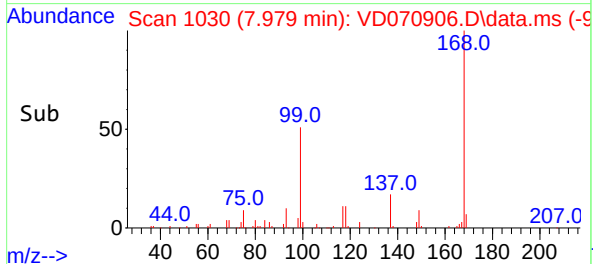
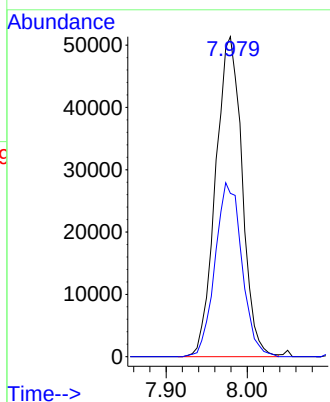
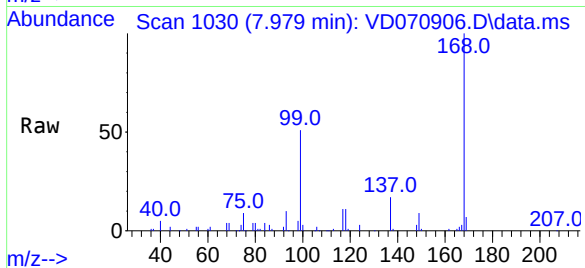




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.979 min Scan# 10  
Delta R.T. 0.000 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

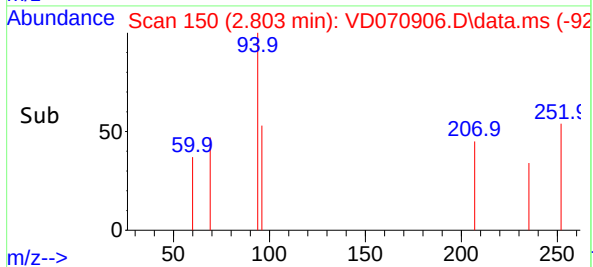
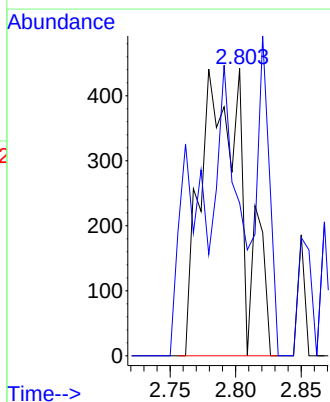
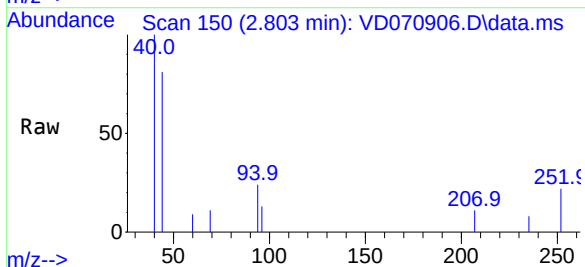
Instrument :  
MSVOA\_D  
ClientSampleId :

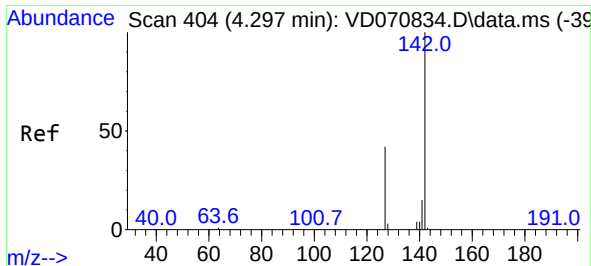
Tgt Ion:168 Resp: 116480  
Ion Ratio Lower Upper  
168 100  
99 51.1 46.6 69.8



#5  
Bromomethane  
Concen: Below Cal  
RT: 2.803 min Scan# 150  
Delta R.T. 0.041 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

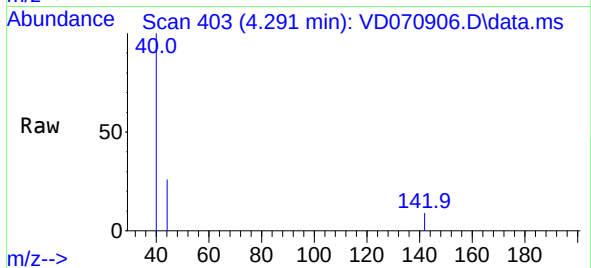
Tgt Ion: 94 Resp: 988  
Ion Ratio Lower Upper  
94 100  
96 53.2 74.8 112.2#





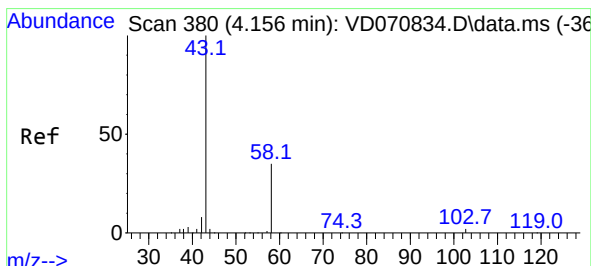
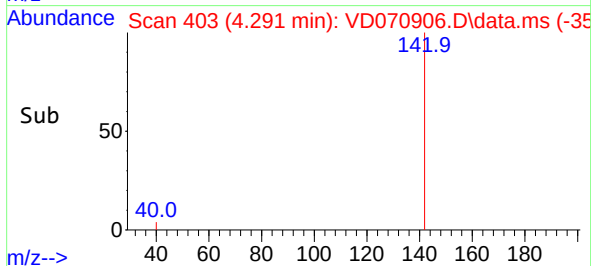
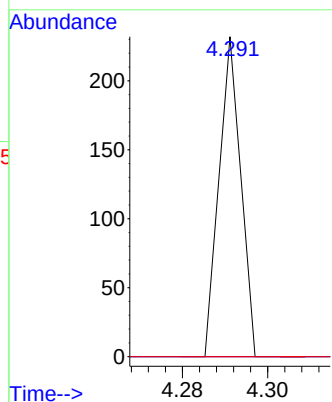
#10  
Methyl Iodide  
Concen: 3.664 ug/l  
RT: 4.291 min Scan# 40  
Delta R.T. -0.006 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion:142 Resp: 82

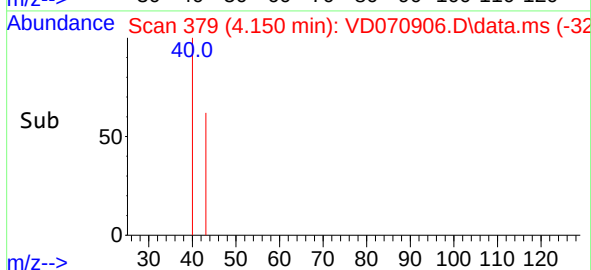
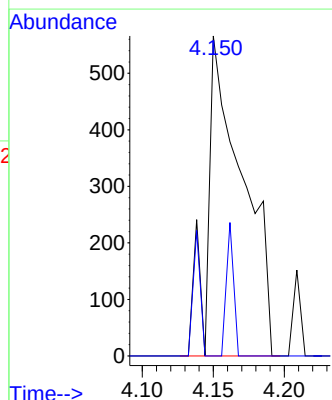
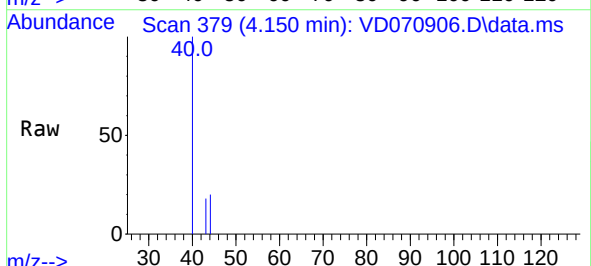
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 142 | 100   |       |       |
| 127 | 0.0   | 35.0  | 52.4# |
| 141 | 0.0   | 12.0  | 18.0# |

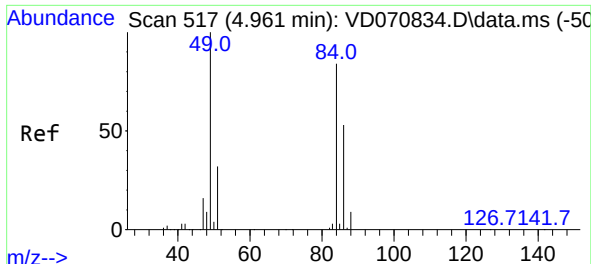


#16  
Acetone  
Concen: 3.610 ug/l  
RT: 4.150 min Scan# 379  
Delta R.T. -0.006 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

Tgt Ion: 43 Resp: 984

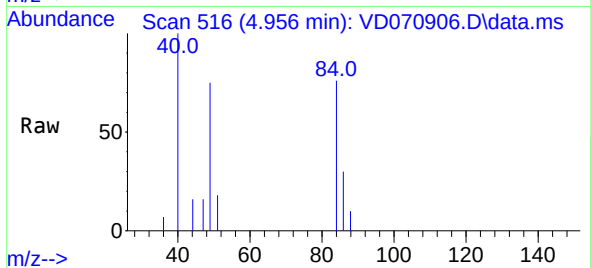
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 58  | 0.0   | 27.8  | 41.8# |





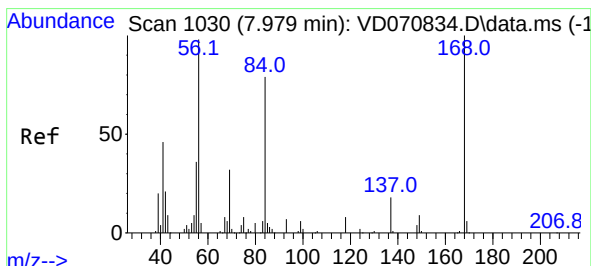
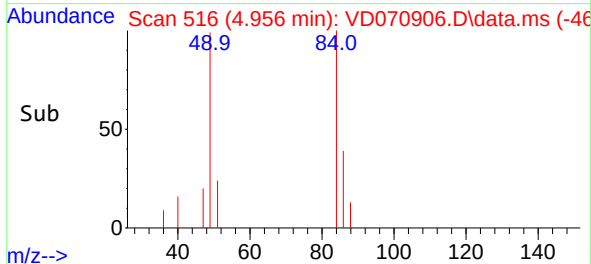
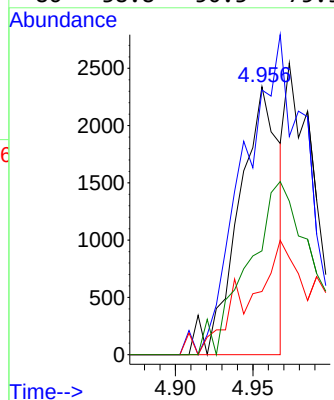
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.956 min Scan# 517  
Delta R.T. -0.005 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

Instrument :  
MSVOA\_D  
ClientSampleId :



Tgt Ion: 84 Resp: 4204

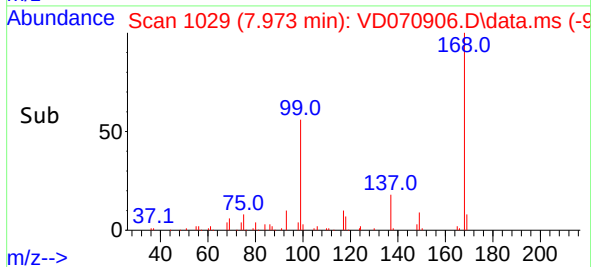
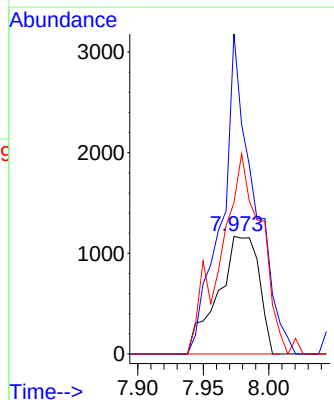
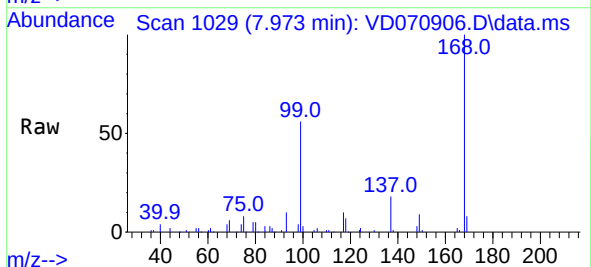
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 98.7  | 95.8  | 143.6 |
| 51  | 23.6  | 30.9  | 46.3# |
| 86  | 38.8  | 50.3  | 75.5# |

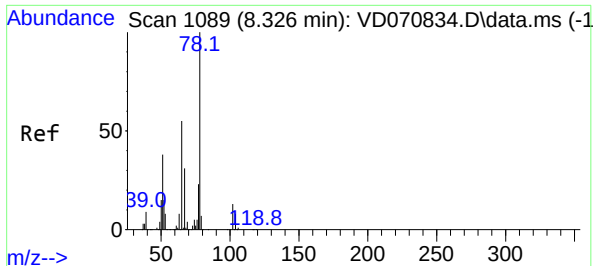


#31  
Cyclohexane  
Concen: 1.061 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

Tgt Ion: 56 Resp: 2532

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 56  | 100   |       |       |
| 69  | 272.0 | 25.9  | 38.9# |
| 84  | 128.6 | 64.3  | 96.5# |





#33

1,2-Dichloroethane-d4

Concen: 73.110 ug/l

RT: 8.332 min Scan# 1089

Delta R.T. 0.006 min

Lab File: VD070906.D

Acq: 03 Nov 2021 13:11

Instrument :

MSVOA\_D

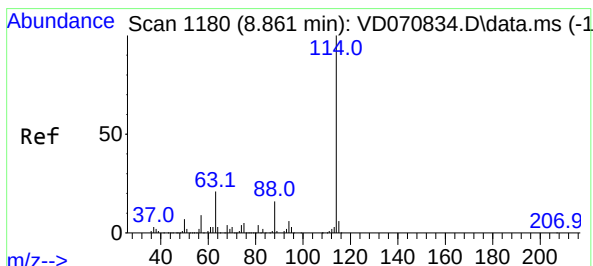
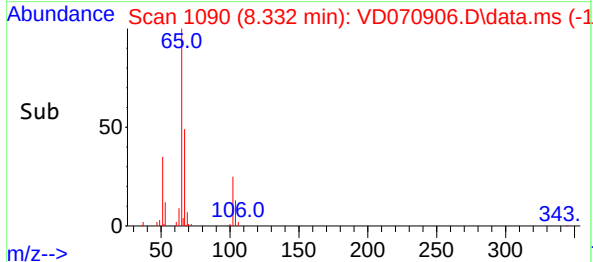
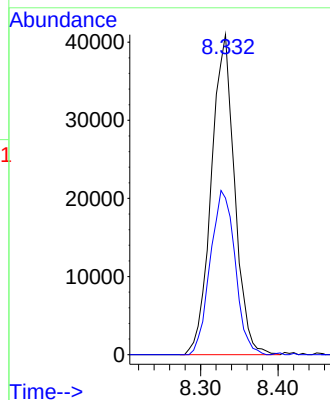
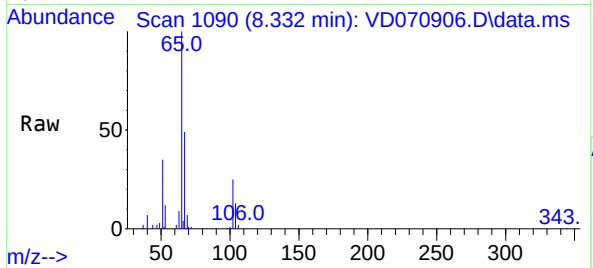
ClientSampleId :

Tgt Ion: 65 Resp: 85648

Ion Ratio Lower Upper

65 100

67 54.6 0.0 112.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.861 min Scan# 1180

Delta R.T. 0.000 min

Lab File: VD070906.D

Acq: 03 Nov 2021 13:11

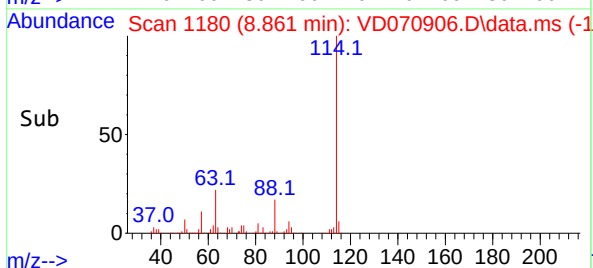
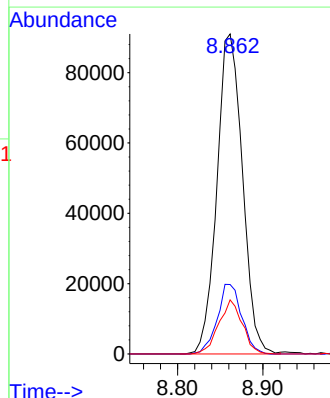
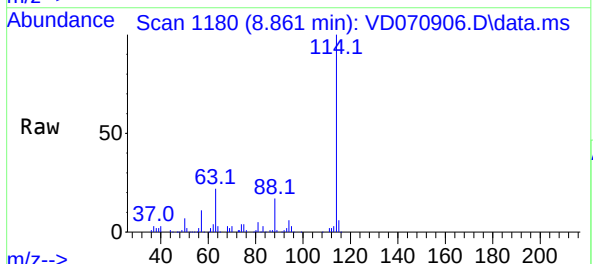
Tgt Ion: 114 Resp: 189374

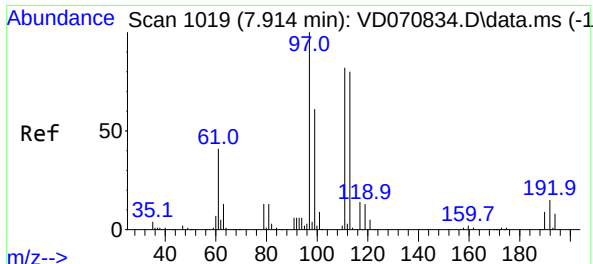
Ion Ratio Lower Upper

114 100

63 21.7 0.0 41.8

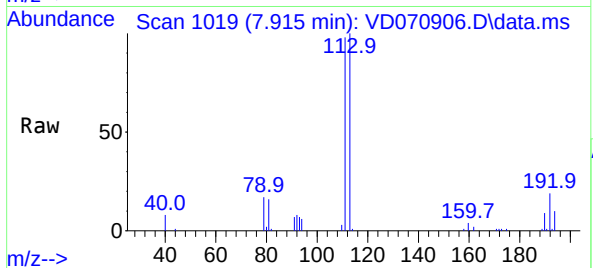
88 16.9 0.0 32.8



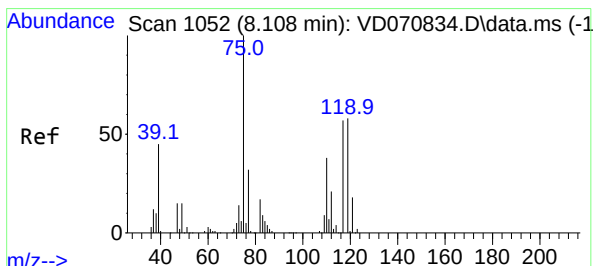
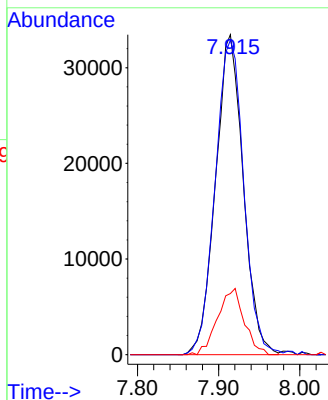
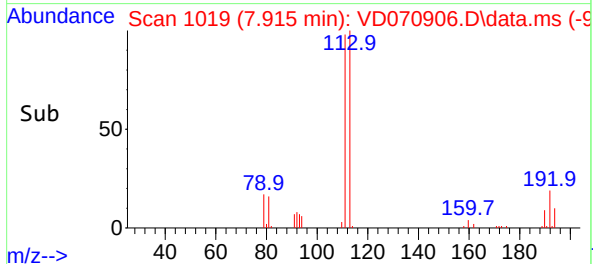


#35  
Dibromofluoromethane  
Concen: 63.418 ug/l  
RT: 7.915 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

Instrument :  
MSVOA\_D  
ClientSampleId :

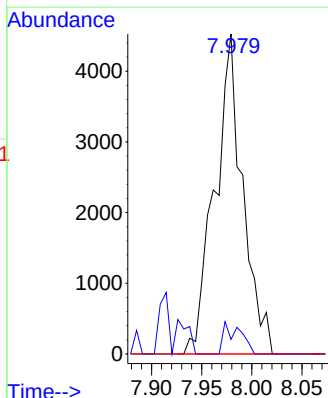
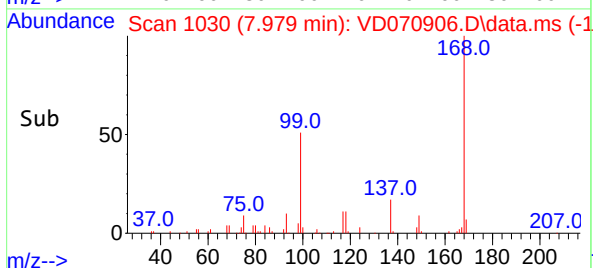
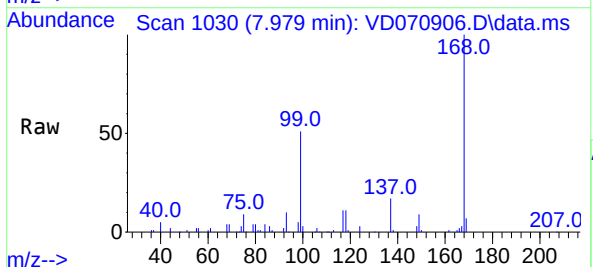


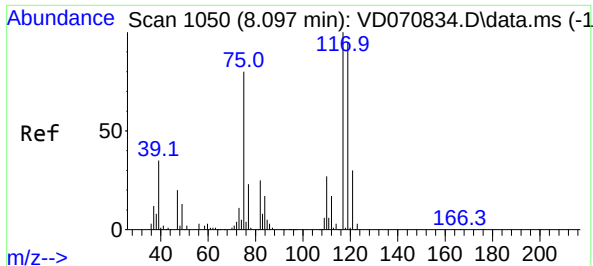
Tgt Ion:113 Resp: 79186  
Ion Ratio Lower Upper  
113 100  
111 101.8 82.0 123.0  
192 19.8 15.2 22.8



#36  
1,1-Dichloropropene  
Concen: 4.415 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.129 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

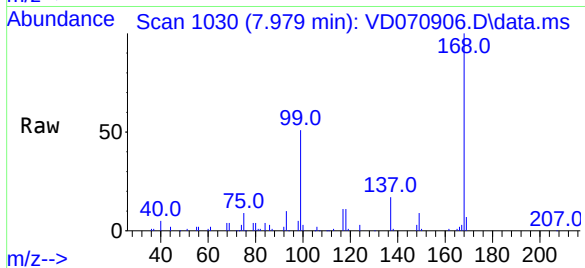
Tgt Ion: 75 Resp: 8747  
Ion Ratio Lower Upper  
75 100  
110 6.0 17.8 53.4#  
77 0.0 24.8 37.2#



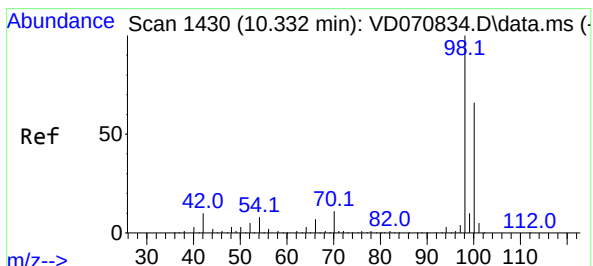
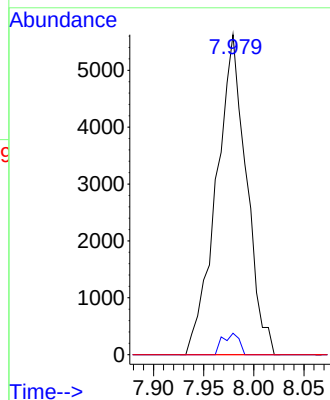
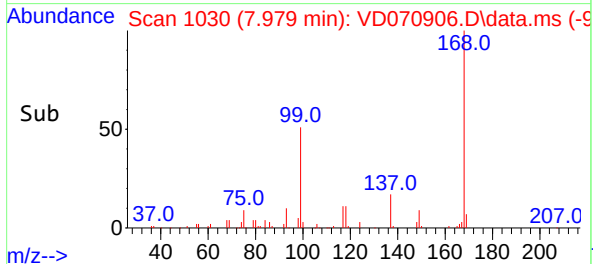


#38  
Carbon Tetrachloride  
Concen: 5.895 ug/l  
RT: 7.979 min Scan# 1050  
Delta R.T. -0.117 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

Instrument :  
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ClientSampleId :

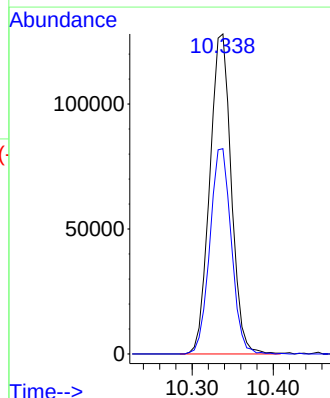
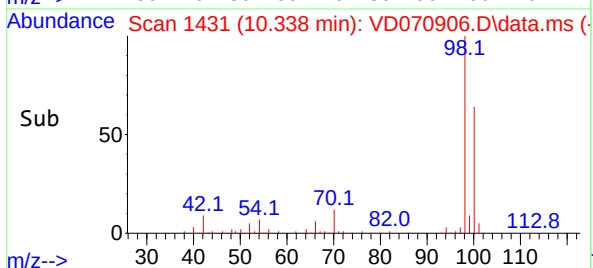
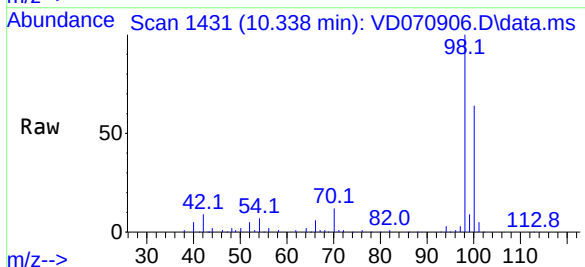


Tgt Ion:117 Resp: 11745  
Ion Ratio Lower Upper  
117 100  
119 6.7 75.8 113.6#  
121 0.0 23.6 35.4#

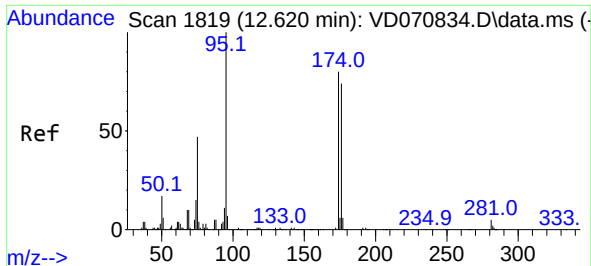


#50  
Toluene-d8  
Concen: 50.169 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. 0.006 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

Tgt Ion: 98 Resp: 235671  
Ion Ratio Lower Upper  
98 100  
100 64.0 51.8 77.6

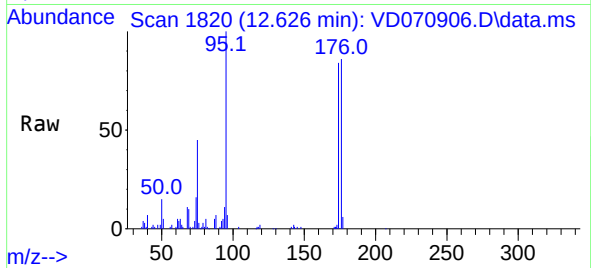




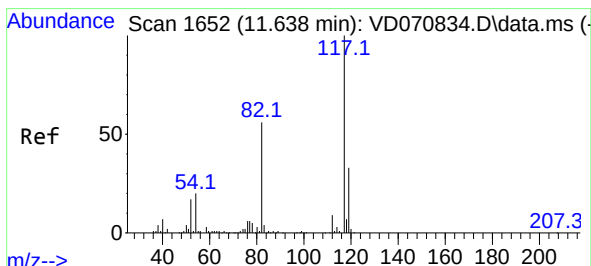
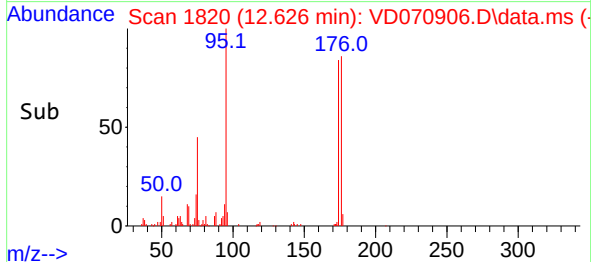
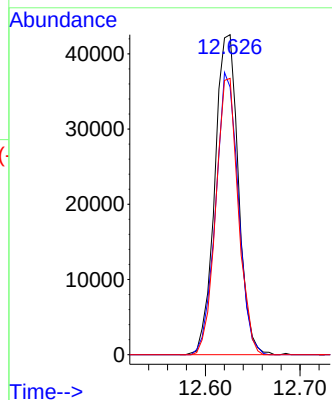


#62  
4-Bromofluorobenzene  
Concen: 47.422 ug/l  
RT: 12.626 min Scan# 1819  
Delta R.T. 0.006 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

Instrument :  
MSVOA\_D  
ClientSampleId :

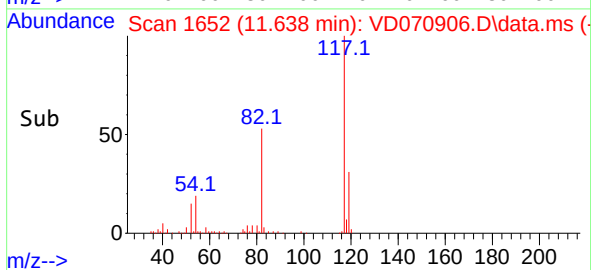
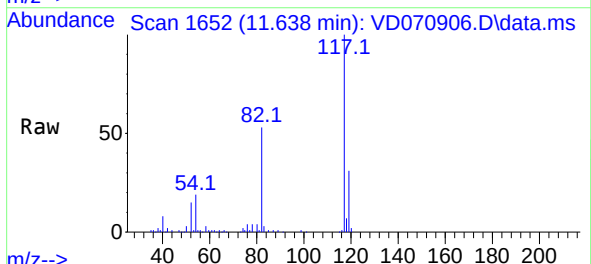
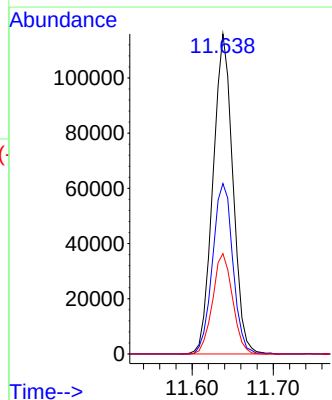


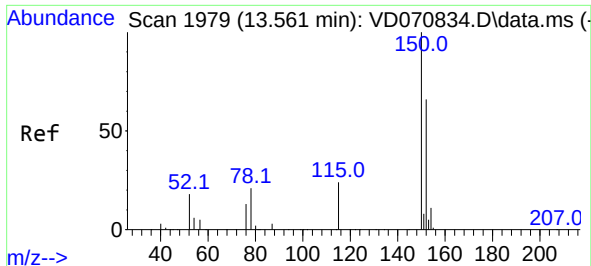
Tgt Ion: 95 Resp: 73502  
Ion Ratio Lower Upper  
95 100  
174 84.6 0.0 159.4  
176 82.3 0.0 154.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.638 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

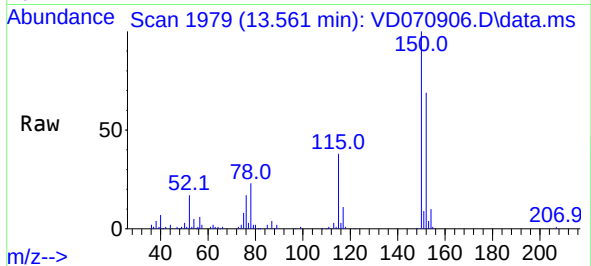
Tgt Ion: 117 Resp: 197093  
Ion Ratio Lower Upper  
117 100  
82 53.3 44.7 67.1  
119 31.3 26.2 39.4



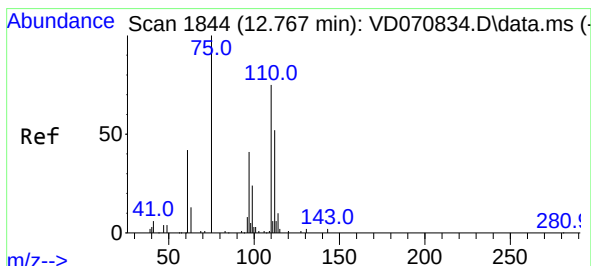
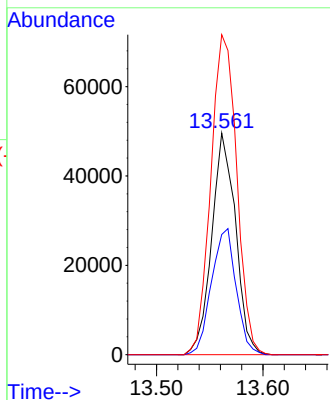
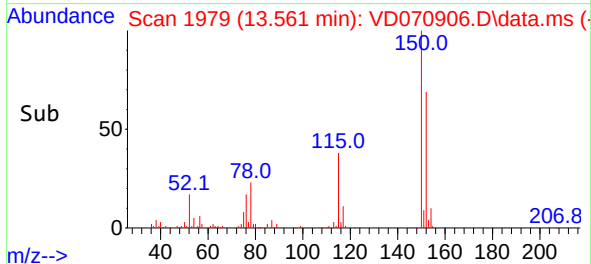


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1979  
Delta R.T. 0.000 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

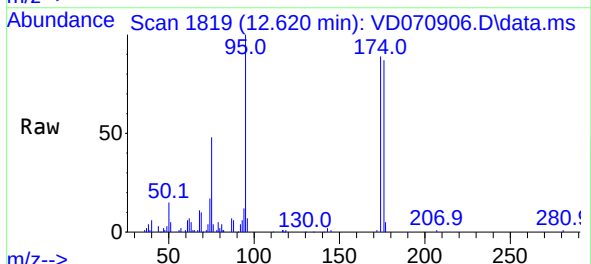
Instrument :  
MSVOA\_D  
ClientSampleId :



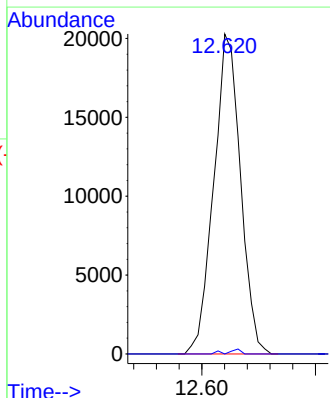
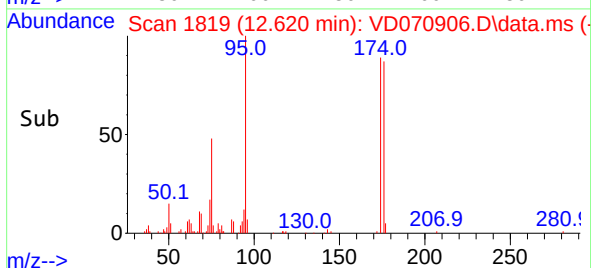
Tgt Ion:152 Resp: 77159  
Ion Ratio Lower Upper  
152 100  
115 58.8 29.8 89.3  
150 157.1 0.0 349.2

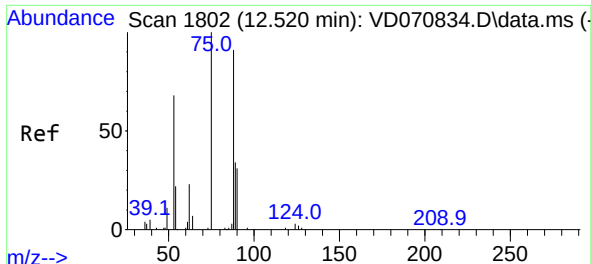


#76  
1,2,3-Trichloropropane  
Concen: 43.653 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.147 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11



Tgt Ion: 75 Resp: 33157  
Ion Ratio Lower Upper  
75 100  
77 0.7 158.4 475.3#

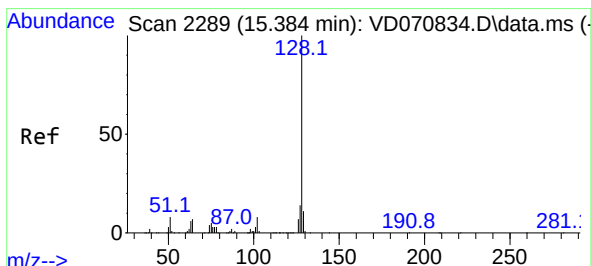
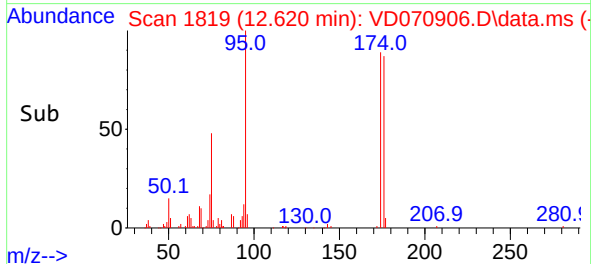
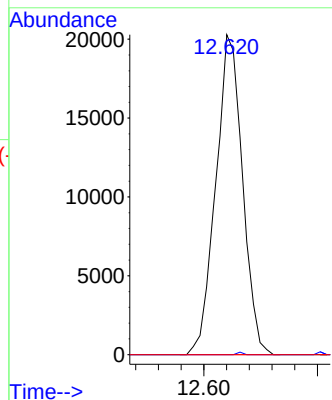
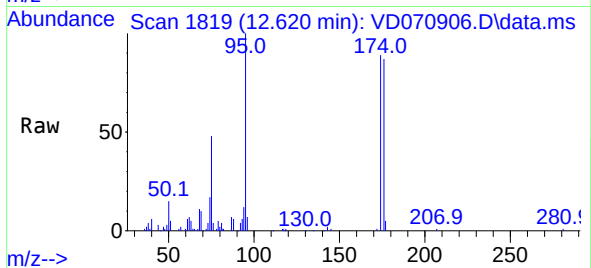




#81  
trans-1,4-Dichloro-2-butene  
Concen: 114.573 ug/l  
RT: 12.620 min Scan# 1802  
Delta R.T. 0.100 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

Instrument :  
MSVOA\_D  
ClientSampleId :

Tgt Ion: 75 Resp: 33157  
Ion Ratio Lower Upper  
75 100  
53 0.2 62.6 94.0#  
89 0.0 34.5 51.7#



#95  
Naphthalene  
Concen: 4.340 ug/l  
RT: 15.379 min Scan# 2288  
Delta R.T. -0.005 min  
Lab File: VD070906.D  
Acq: 03 Nov 2021 13:11

Tgt Ion:128 Resp: 570  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.7 16.1#  
129 0.0 8.7 13.1#

