

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX091721\  
 Data File : VX024318.D  
 Acq On : 17 Sep 2021 18:42  
 Operator : JC/MD  
 Sample : M3782-06 20X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE132D6-20210914

Quant Time: Sep 20 02:00:04 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091421W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 14 12:18:04 2021  
 Response via : Initial Calibration

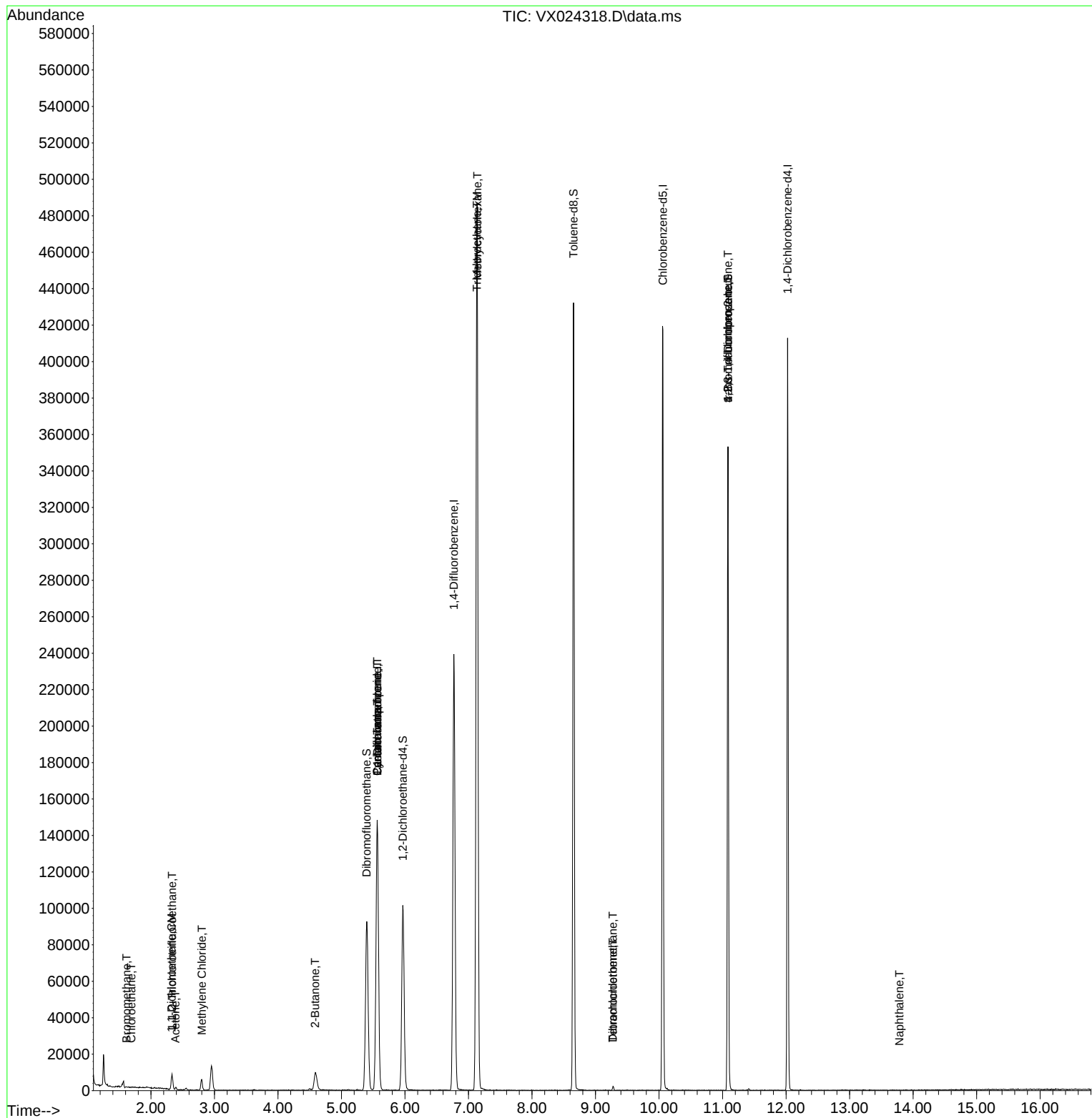
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.562  | 168   | 134924   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 235034   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.061 | 117   | 190524   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 80795    | 50.000    | ug/l       | 0.00     |
|                               |        |       |          |           |            |          |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 102016   | 53.024    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | = 106.040% |          |
| 35) Dibromofluoromethane      | 5.397  | 113   | 80111    | 50.824    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | = 101.640% |          |
| 50) Toluene-d8                | 8.653  | 98    | 244448   | 42.571    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | = 85.140%# |          |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 86748    | 38.819    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | = 77.640%# |          |
|                               |        |       |          |           |            |          |
| Target Compounds              |        |       |          |           |            | Qvalue   |
| 5) Bromomethane               | 1.617  | 94    | 377      | 0.470     | ug/l #     | 61       |
| 6) Chloroethane               | 1.691  | 64    | 108      | 2.097     | ug/l #     | 43       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101   | 2692     | 2.027     | ug/l       | 96       |
| 11) Tert butyl alcohol        | 2.953  | 59    | 8111     | Below Cal | #          | 75       |
| 12) 1,1-Dichloroethene        | 2.325  | 96    | 980      | 0.788     | ug/l       | 96       |
| 16) Acetone                   | 2.386  | 43    | 1693     | 2.064     | ug/l #     | 75       |
| 20) Methylene Chloride        | 2.800  | 84    | 2746     | 1.743     | ug/l       | 96       |
| 25) 2-Butanone                | 4.586  | 43    | 545      | 0.451     | ug/l #     | 45       |
| 31) Cyclohexane               | 5.562  | 56    | 2980     | 1.324     | ug/l #     | 34       |
| 36) 1,1-Dichloropropene       | 5.562  | 75    | 10866    | 5.028     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 5.562  | 117   | 14356    | 5.903     | ug/l #     | 15       |
| 39) Methylcyclohexane         | 7.141  | 83    | 2335     | 0.905     | ug/l #     | 1        |
| 44) Trichloroethene           | 7.135  | 130   | 184195   | 105.776   | ug/l       | 98       |
| 60) Dibromochloromethane      | 9.275  | 129   | 350      | 1.898     | ug/l #     | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 371      | 0.251     | ug/l       | 92       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 47535    | 25.587    | ug/l #     | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 47535    | 75.251    | ug/l #     | 12       |
| 95) Naphthalene               | 13.786 | 128   | 28       | 1.292     | ug/l #     | 69       |
| -----                         |        |       |          |           |            |          |

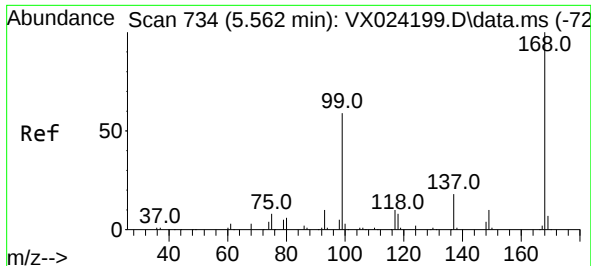
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Sep 14 12:18:04 2021  
Response via : Initial Calibration

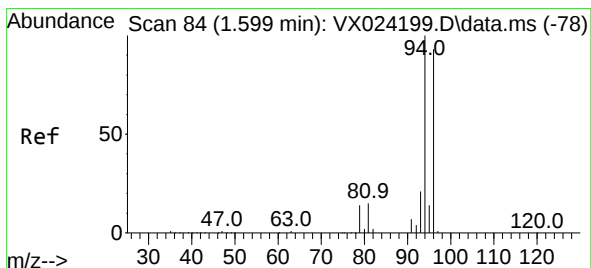
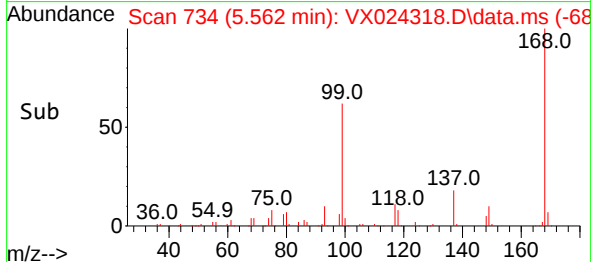
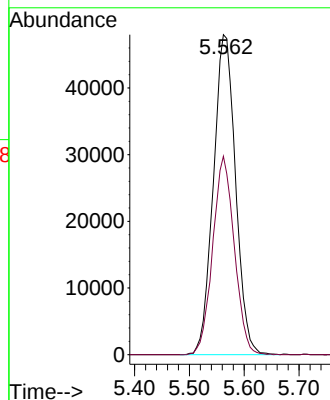
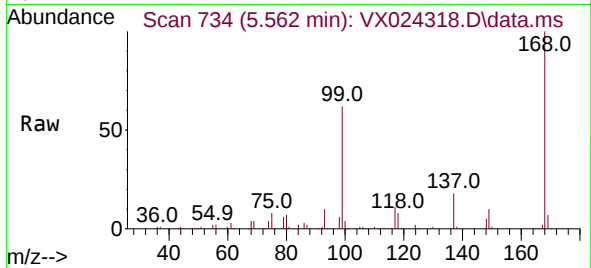




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.000 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

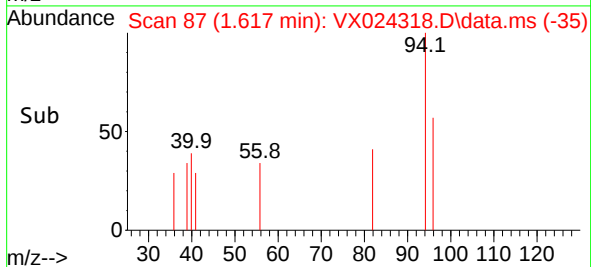
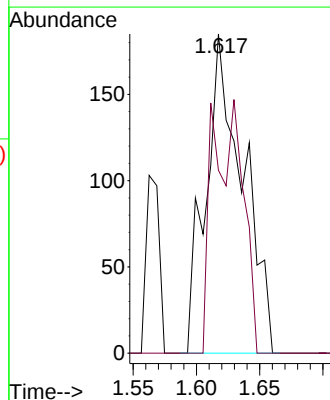
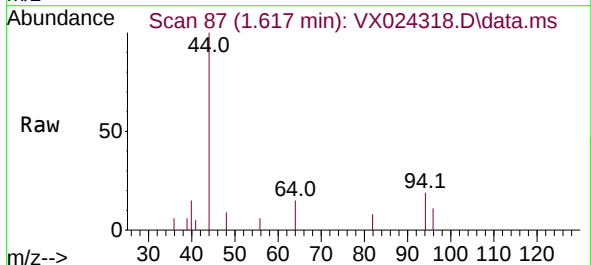
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D6-20210914

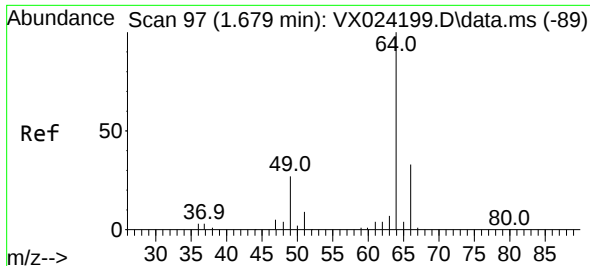
Tgt Ion:168 Resp: 134924  
Ion Ratio Lower Upper  
168 100  
99 62.0 45.8 68.6



#5  
Bromomethane  
Concen: 0.470 ug/l  
RT: 1.617 min Scan# 87  
Delta R.T. 0.018 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

Tgt Ion: 94 Resp: 377  
Ion Ratio Lower Upper  
94 100  
96 57.3 76.4 114.6#

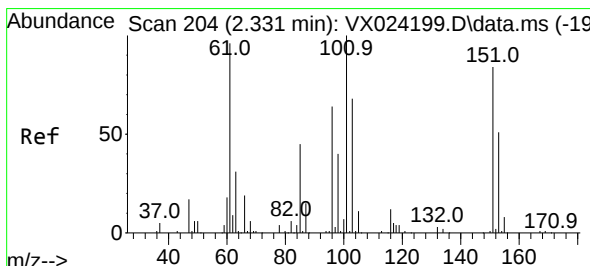
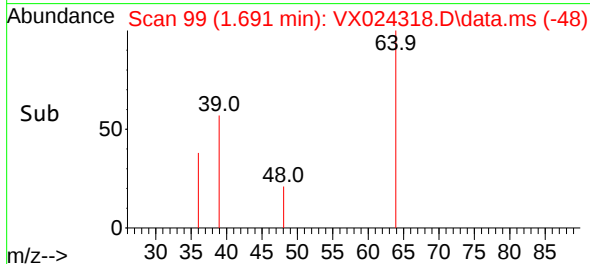
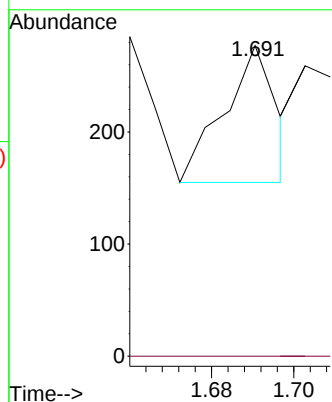
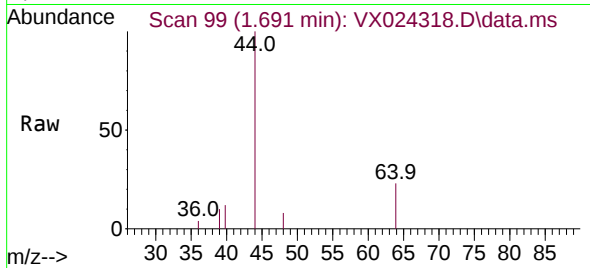




#6  
Chloroethane  
Concen: 2.097 ug/l  
RT: 1.691 min Scan# 99  
Delta R.T. 0.012 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

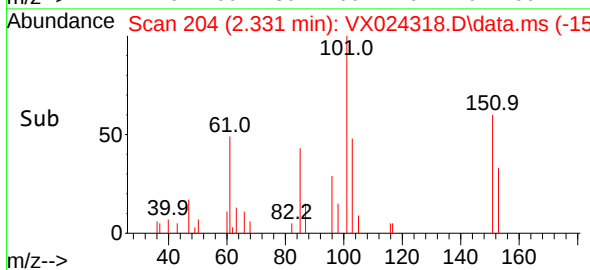
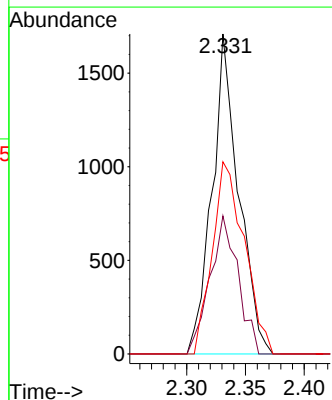
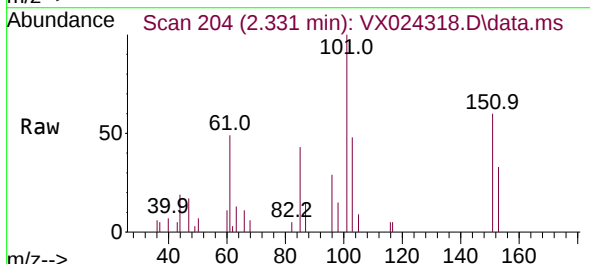
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D6-20210914

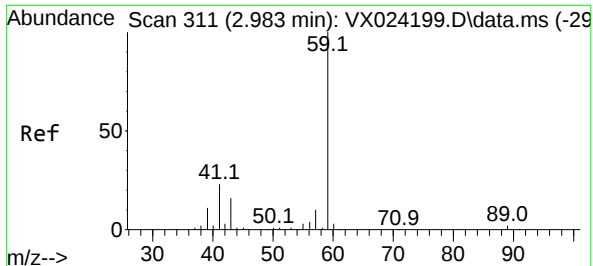
Tgt Ion: 64 Resp: 108  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.4 38.0#



#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 2.027 ug/l  
RT: 2.331 min Scan# 204  
Delta R.T. -0.000 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

Tgt Ion: 101 Resp: 2692  
Ion Ratio Lower Upper  
101 100  
85 45.5 34.9 52.3  
151 72.2 61.4 92.2



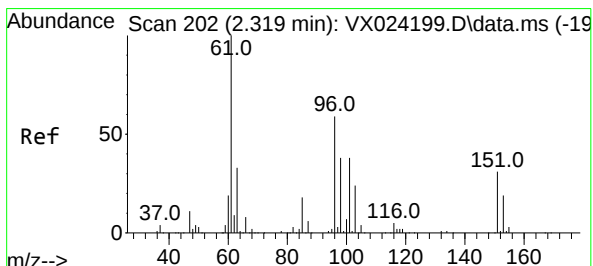
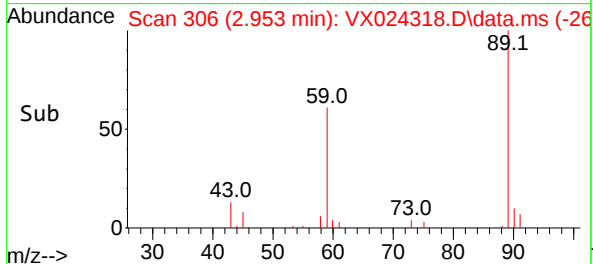
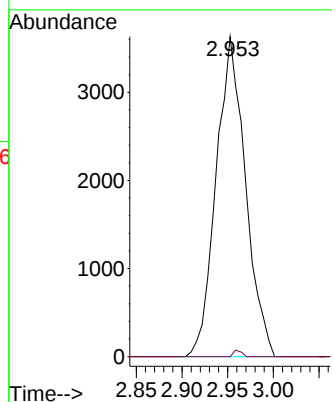
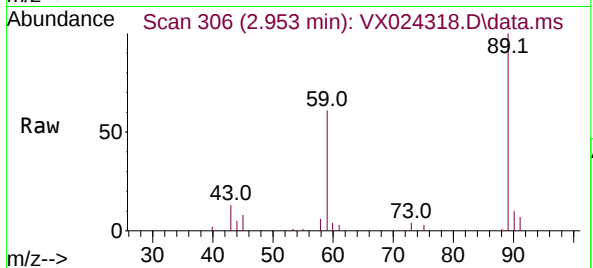


#11

Tert butyl alcohol  
Concen: Below Cal  
RT: 2.953 min Scan# 306  
Delta R.T. -0.030 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D6-20210914

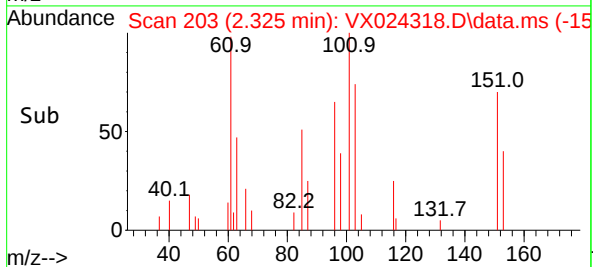
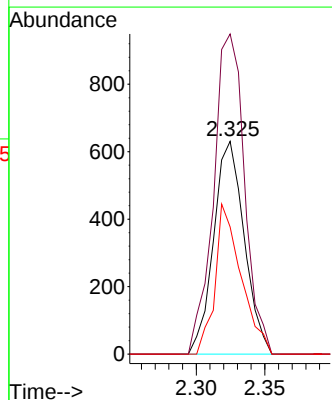
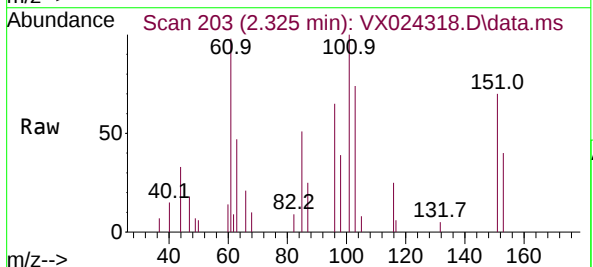
Tgt Ion: 59 Resp: 8111  
Ion Ratio Lower Upper  
59 100  
57 0.6 7.8 11.8#

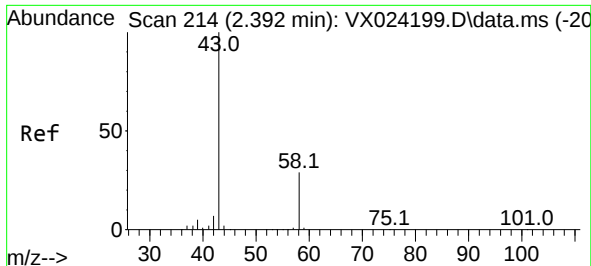


#12

1,1-Dichloroethene  
Concen: 0.788 ug/l  
RT: 2.325 min Scan# 203  
Delta R.T. 0.006 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

Tgt Ion: 96 Resp: 980  
Ion Ratio Lower Upper  
96 100  
61 150.4 124.6 187.0  
98 59.7 50.6 76.0

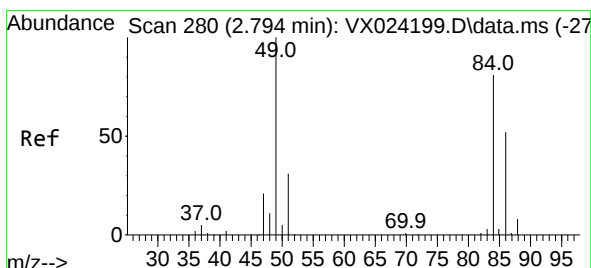
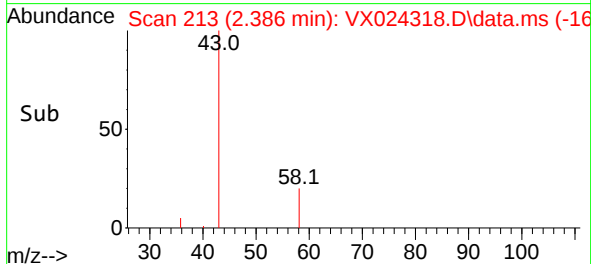
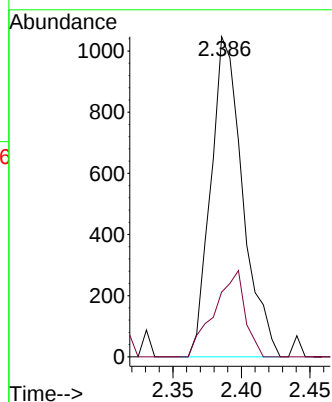
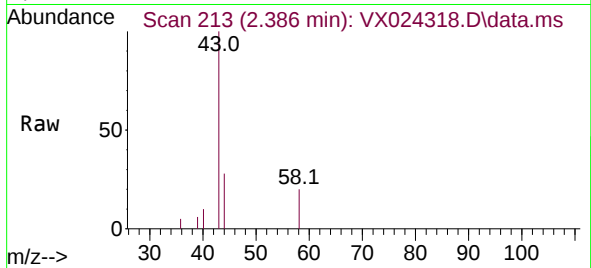




#16  
Acetone  
Concen: 2.064 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

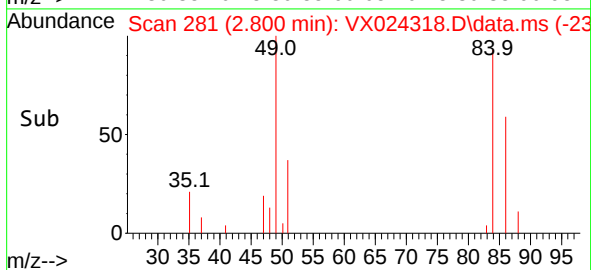
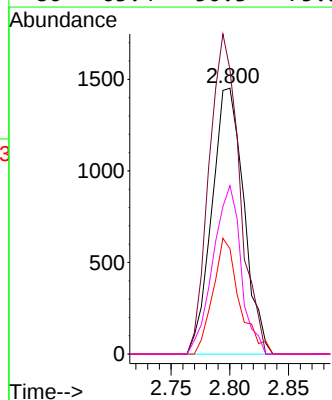
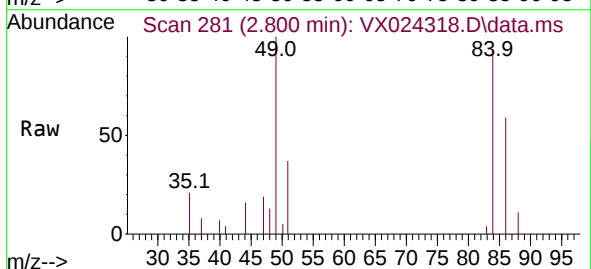
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MSVOA\_X  
ClientSampleId :  
RE132D6-20210914

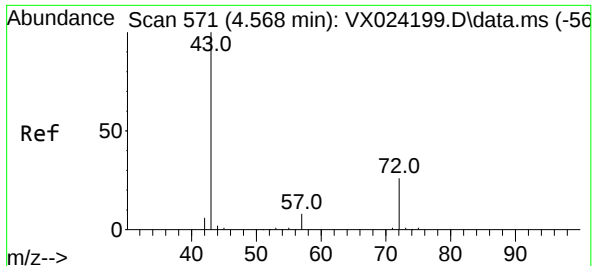
Tgt Ion: 43 Resp: 1693  
Ion Ratio Lower Upper  
43 100  
58 20.2 27.8 41.8#



#20  
Methylene Chloride  
Concen: 1.743 ug/l  
RT: 2.800 min Scan# 281  
Delta R.T. 0.006 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

Tgt Ion: 84 Resp: 2746  
Ion Ratio Lower Upper  
84 100  
49 107.0 88.6 132.8  
51 39.6 27.0 40.6  
86 63.4 50.3 75.5

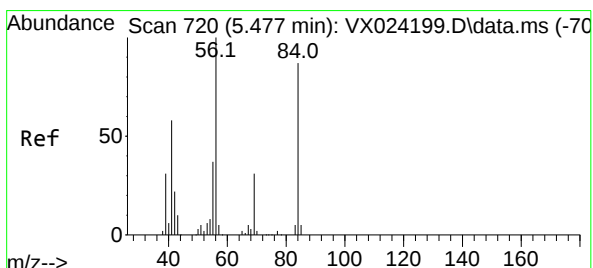
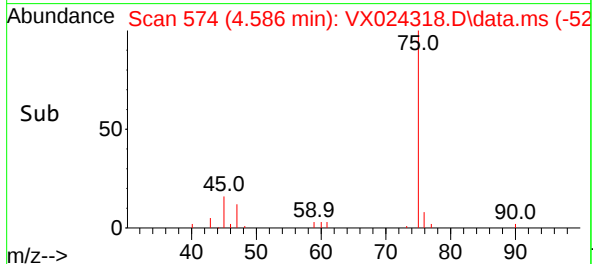
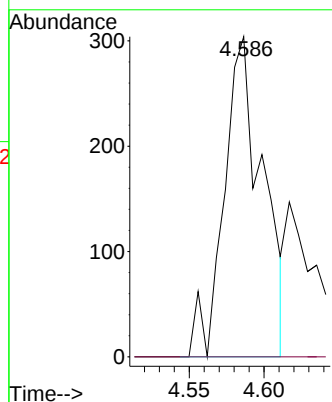
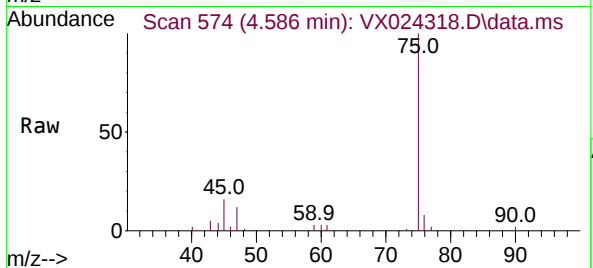




#25  
2-Butanone  
Concen: 0.451 ug/l  
RT: 4.586 min Scan# 574  
Delta R.T. 0.018 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

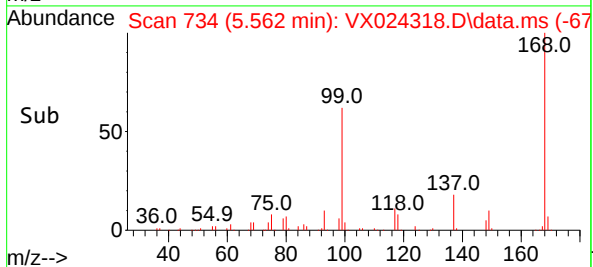
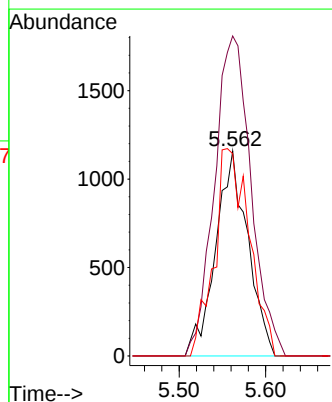
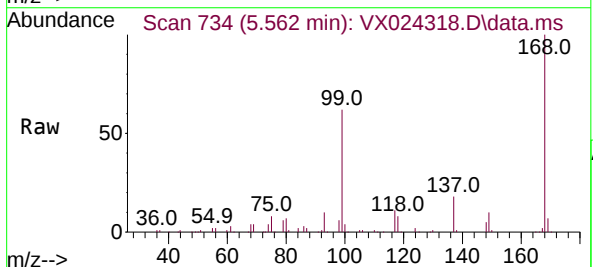
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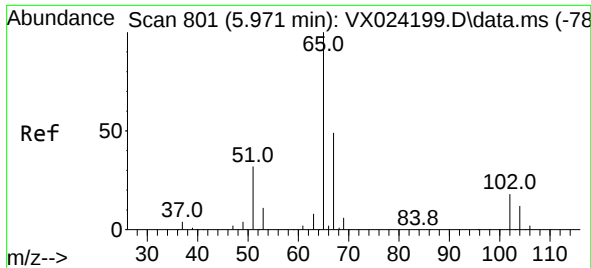
Tgt Ion: 43 Resp: 545  
Ion Ratio Lower Upper  
43 100  
72 0.0 23.7 35.5#



#31  
Cyclohexane  
Concen: 1.324 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. 0.085 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

Tgt Ion: 56 Resp: 2980  
Ion Ratio Lower Upper  
56 100  
69 156.1 25.3 37.9#  
84 98.6 71.4 107.0

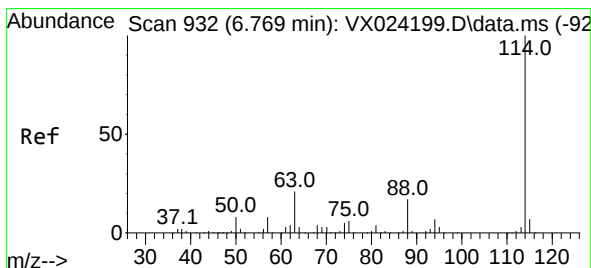
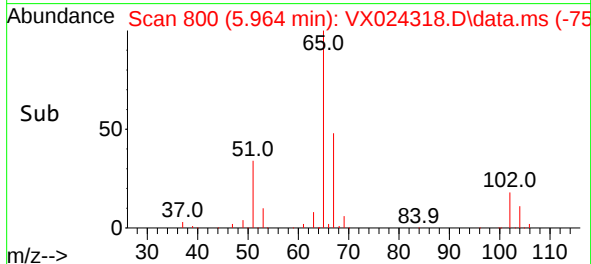
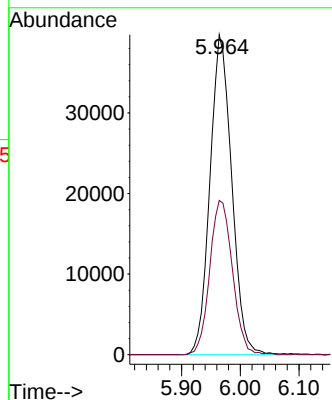
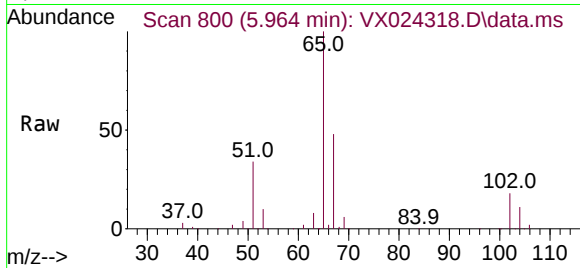




#33  
1,2-Dichloroethane-d4  
Concen: 53.024 ug/l  
RT: 5.964 min Scan# 800  
Delta R.T. -0.007 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

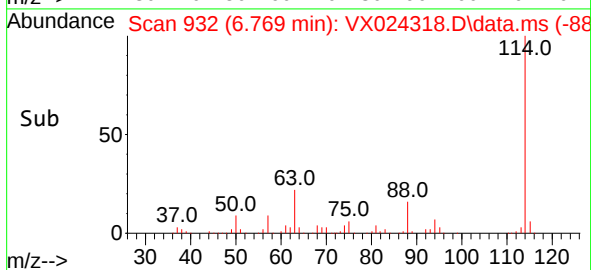
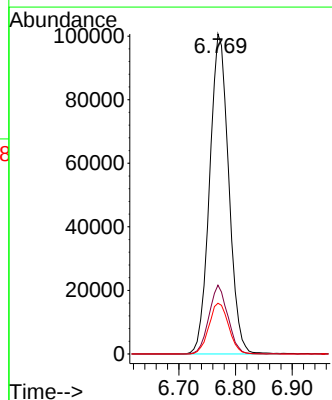
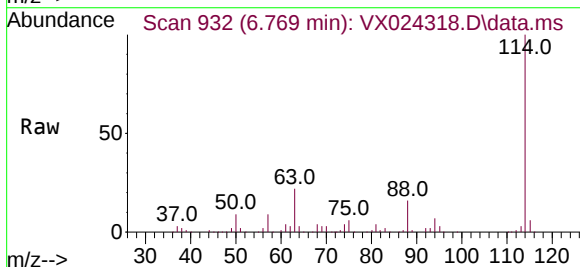
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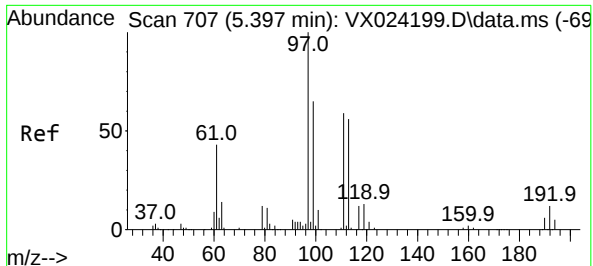
Tgt Ion: 65 Resp: 102016  
Ion Ratio Lower Upper  
65 100  
67 50.3 0.0 105.4



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.769 min Scan# 932  
Delta R.T. -0.000 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

Tgt Ion: 114 Resp: 235034  
Ion Ratio Lower Upper  
114 100  
63 21.5 0.0 40.8  
88 15.8 0.0 32.8





#35

Dibromofluoromethane

Concen: 50.824 ug/l

RT: 5.397 min Scan# 707

Delta R.T. 0.000 min

Lab File: VX024318.D

Acq: 17 Sep 2021 18:42

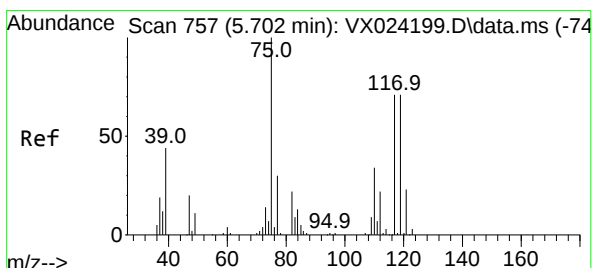
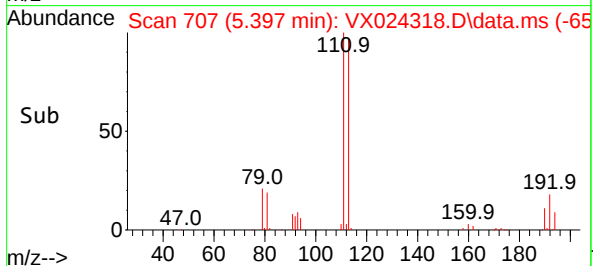
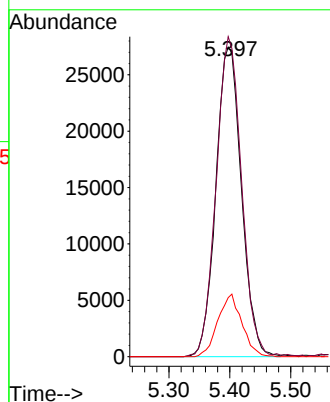
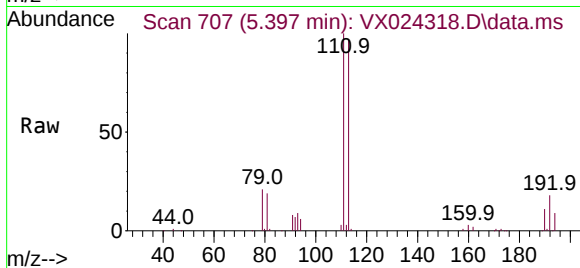
Tgt Ion:113 Resp: 80111

Ion Ratio Lower Upper

113 100

111 102.4 81.9 122.9

192 19.0 16.7 25.1



#36

1,1-Dichloropropene

Concen: 5.028 ug/l

RT: 5.562 min Scan# 734

Delta R.T. -0.140 min

Lab File: VX024318.D

Acq: 17 Sep 2021 18:42

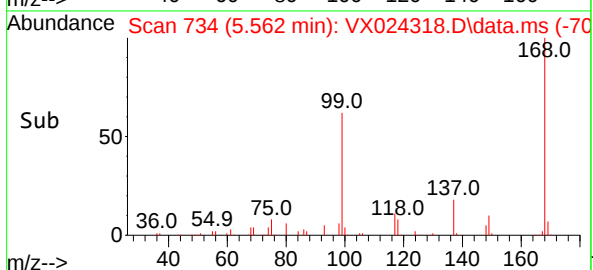
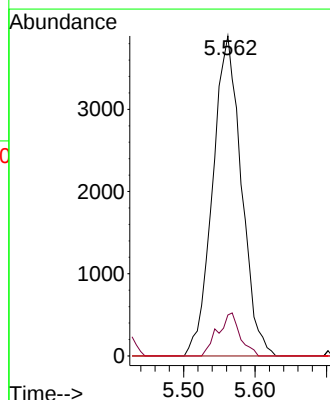
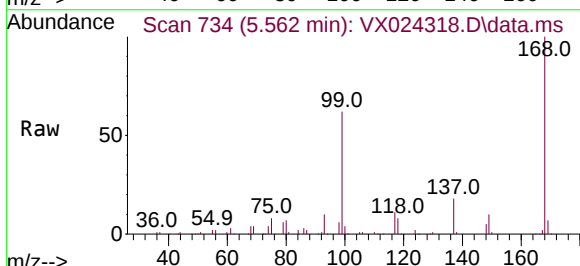
Tgt Ion: 75 Resp: 10866

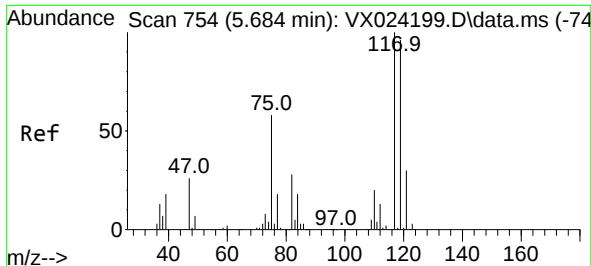
Ion Ratio Lower Upper

75 100

110 10.4 18.1 54.4#

77 0.0 25.3 37.9#

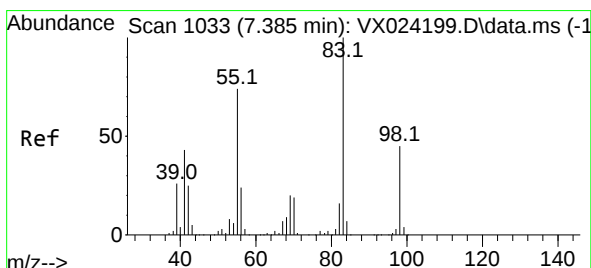
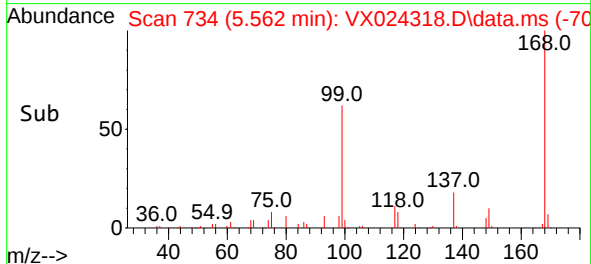
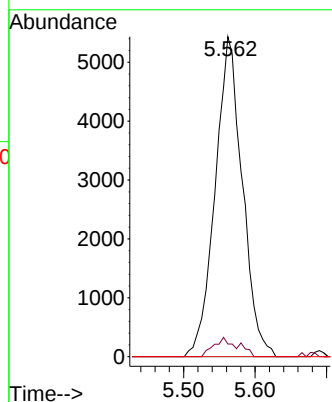
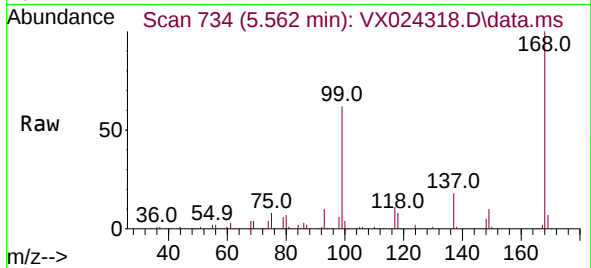




#38  
Carbon Tetrachloride  
Concen: 5.903 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.122 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

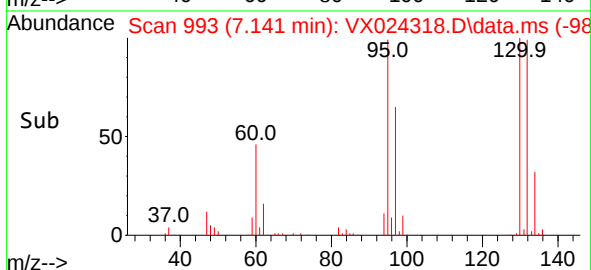
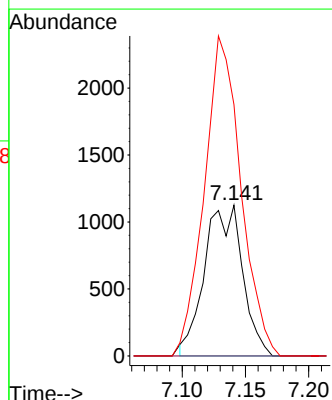
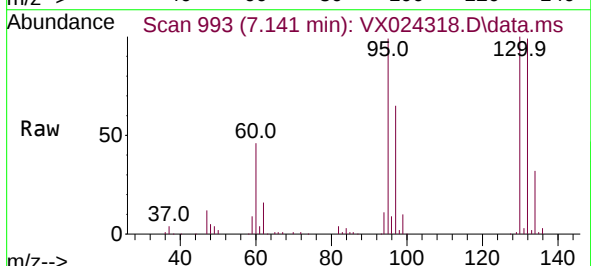
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D6-20210914

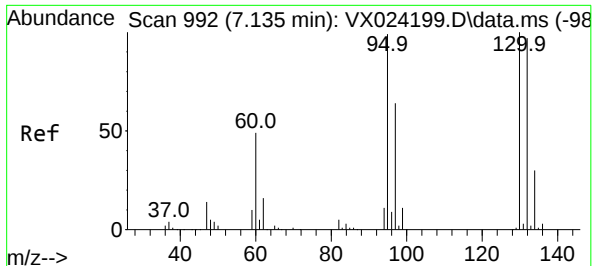
Tgt Ion:117 Resp: 14356  
Ion Ratio Lower Upper  
117 100  
119 4.0 76.2 114.2#  
121 0.0 24.8 37.2#



#39  
Methylcyclohexane  
Concen: 0.905 ug/l  
RT: 7.141 min Scan# 993  
Delta R.T. -0.244 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

Tgt Ion: 83 Resp: 2335  
Ion Ratio Lower Upper  
83 100  
55 0.0 58.9 88.3#  
98 166.8 38.1 57.1#

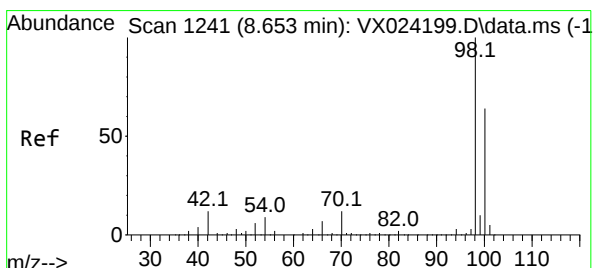
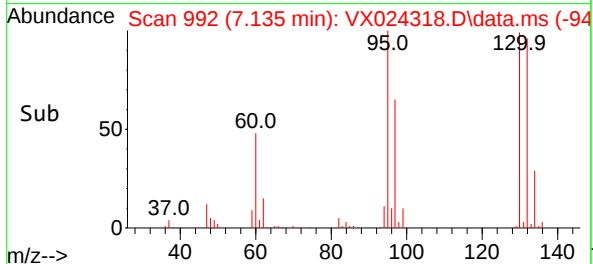
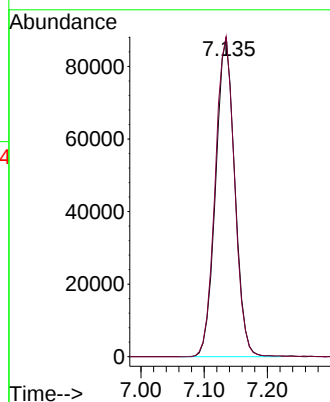
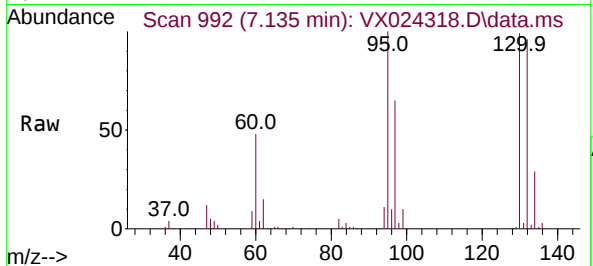




#44  
Trichloroethene  
Concen: 105.776 ug/l  
RT: 7.135 min Scan# 992  
Delta R.T. -0.000 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

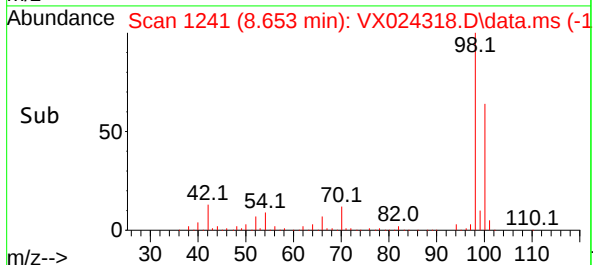
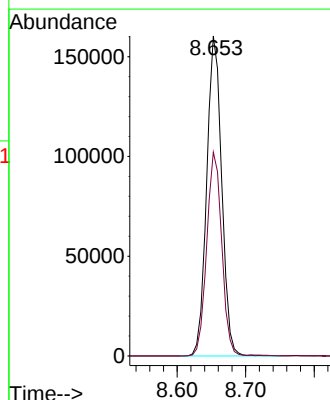
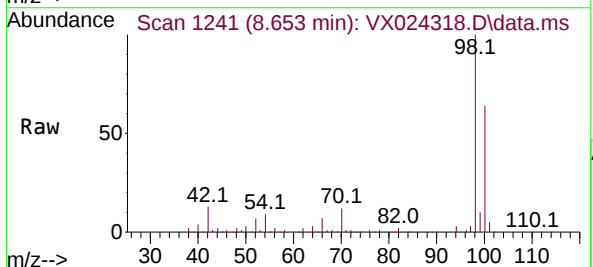
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D6-20210914

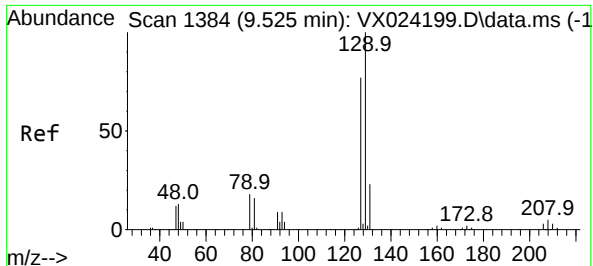
Tgt Ion:130 Resp: 184195  
Ion Ratio Lower Upper  
130 100  
95 100.8 0.0 198.0



#50  
Toluene-d8  
Concen: 42.571 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. -0.000 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

Tgt Ion: 98 Resp: 244448  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.9 77.9





#60

Dibromochloromethane

Concen: 1.898 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.250 min

Lab File: VX024318.D

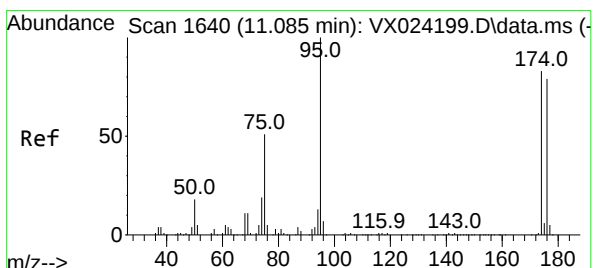
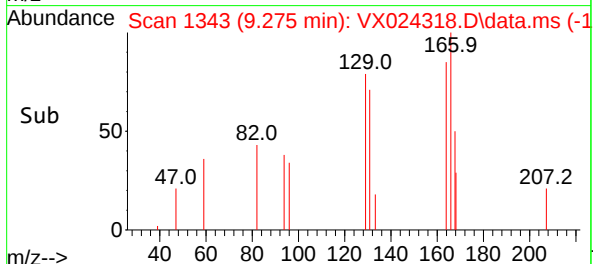
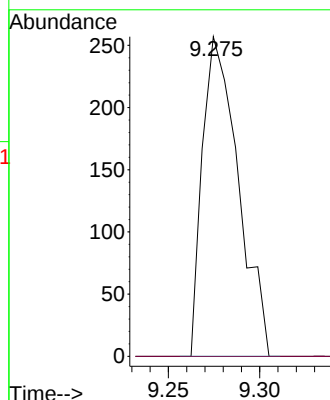
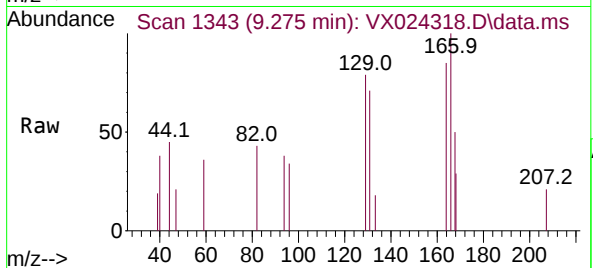
Acq: 17 Sep 2021 18:42

Tgt Ion:129 Resp: 350

Ion Ratio Lower Upper

129 100

127 0.0 38.4 115.2#



#62

4-Bromofluorobenzene

Concen: 38.819 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.000 min

Lab File: VX024318.D

Acq: 17 Sep 2021 18:42

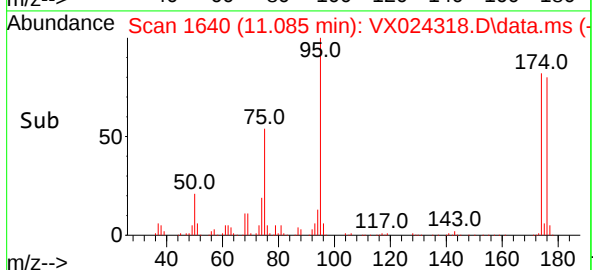
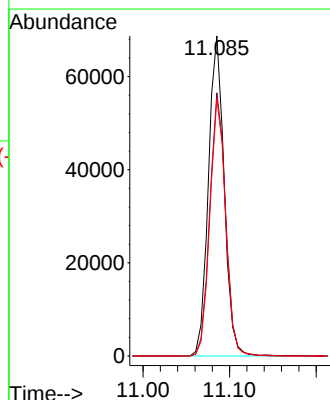
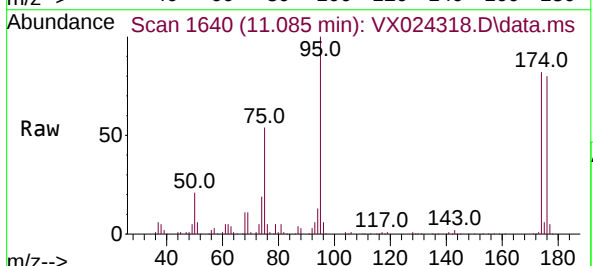
Tgt Ion: 95 Resp: 86748

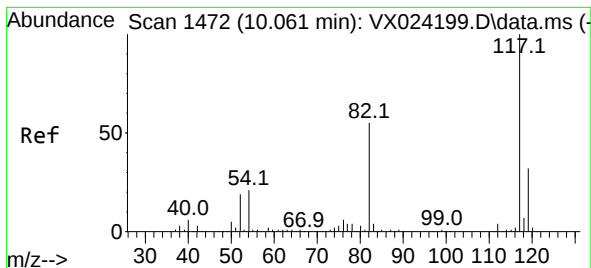
Ion Ratio Lower Upper

95 100

174 83.2 0.0 154.6

176 80.0 0.0 155.8

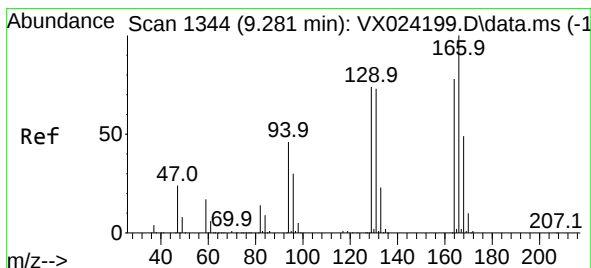
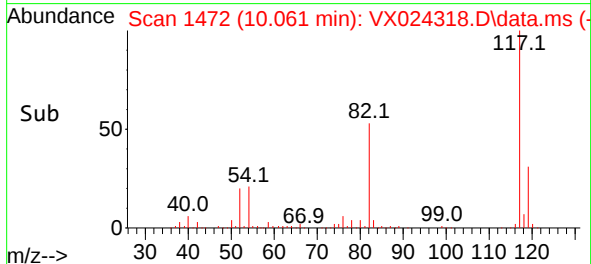
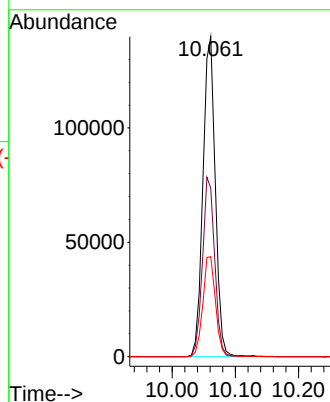
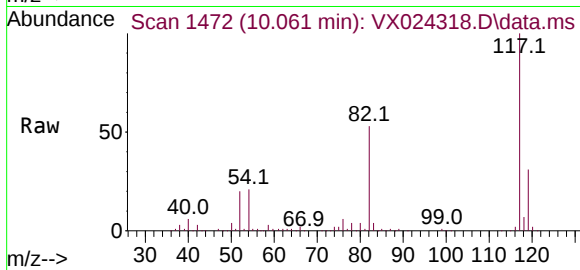




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.061 min Scan# 1472  
Delta R.T. 0.000 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

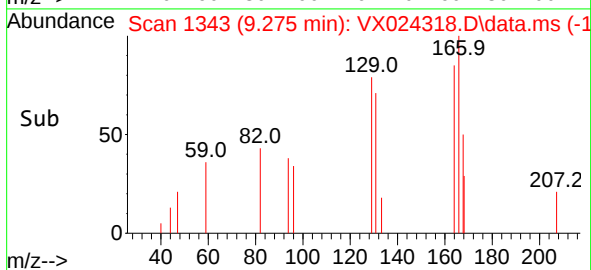
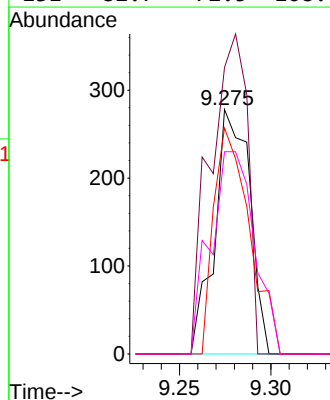
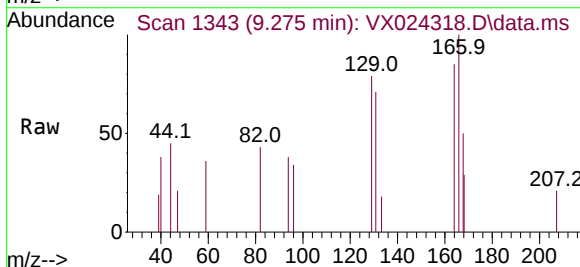
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D6-20210914

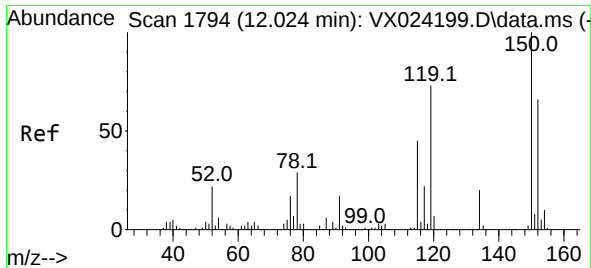
Tgt Ion:117 Resp: 190524  
Ion Ratio Lower Upper  
117 100  
82 52.6 47.4 71.2  
119 31.2 26.6 39.8



#64  
Tetrachloroethene  
Concen: 0.251 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. -0.006 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

Tgt Ion:164 Resp: 371  
Ion Ratio Lower Upper  
164 100  
166 117.3 103.4 155.2  
129 92.4 70.8 106.2  
131 82.7 72.5 108.7

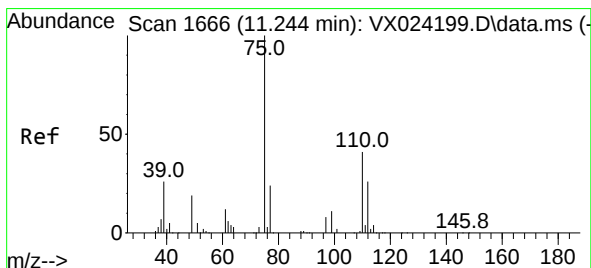
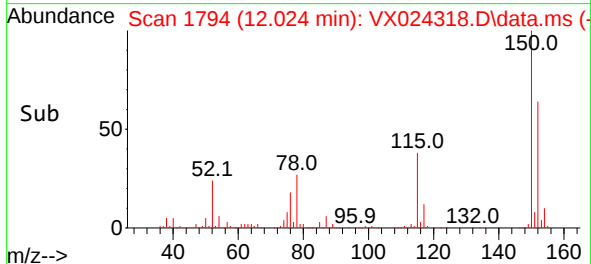
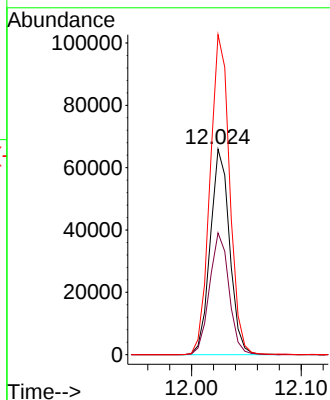
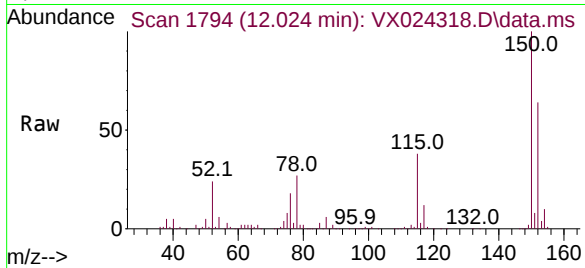




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

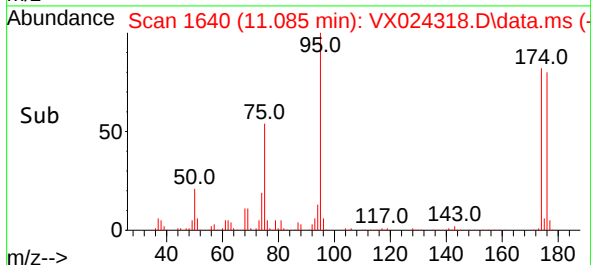
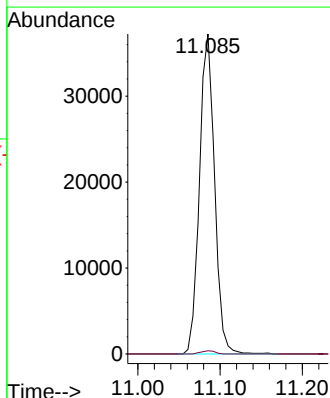
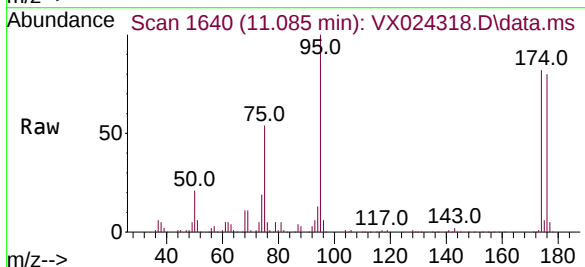
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D6-20210914

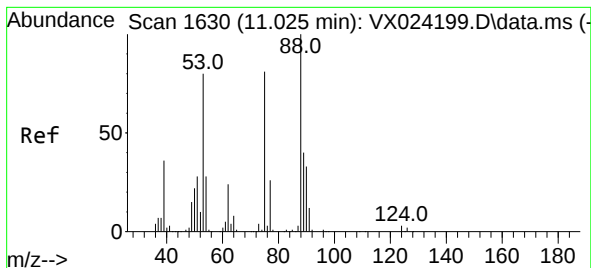
Tgt Ion:152 Resp: 80795  
Ion Ratio Lower Upper  
152 100  
115 59.7 41.1 123.3  
150 158.0 0.0 349.0



#76  
1,2,3-Trichloropropane  
Concen: 25.587 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

Tgt Ion: 75 Resp: 47535  
Ion Ratio Lower Upper  
75 100  
77 0.9 19.1 57.5#

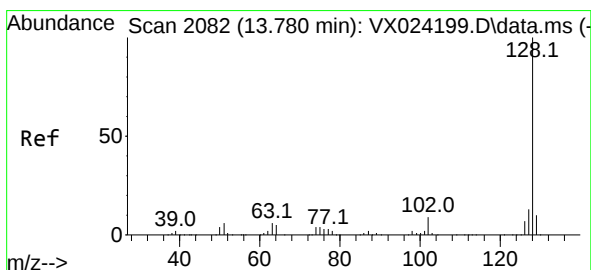
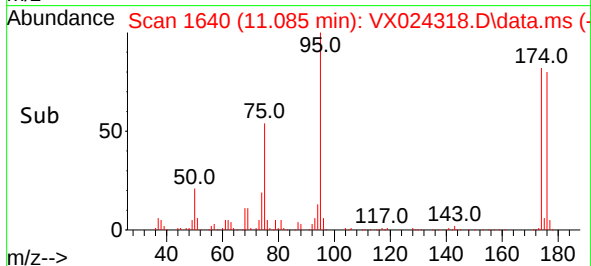
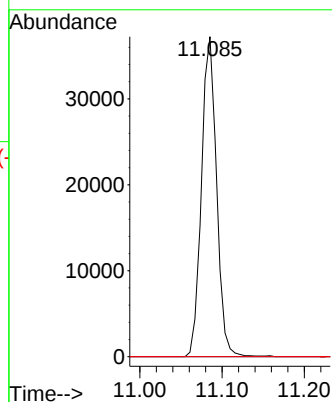
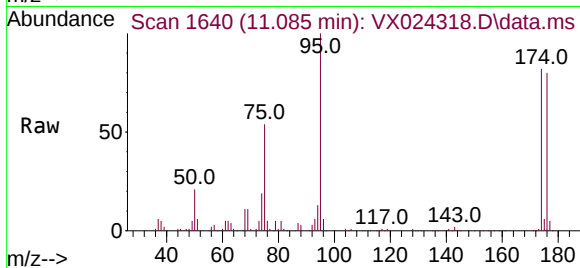




#81  
trans-1,4-Dichloro-2-butene  
Concen: 75.251 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.060 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE132D6-20210914

Tgt Ion: 75 Resp: 47535  
Ion Ratio Lower Upper  
75 100  
53 0.0 74.5 111.7#  
89 0.0 37.9 56.9#



#95  
Naphthalene  
Concen: 1.292 ug/l  
RT: 13.786 min Scan# 2083  
Delta R.T. 0.006 min  
Lab File: VX024318.D  
Acq: 17 Sep 2021 18:42

Tgt Ion: 128 Resp: 28  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.8 13.2#

