

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD081922\  
 Data File : VD074161.D  
 Acq On : 19 Aug 2022 21:21  
 Operator : VA/SY  
 Sample : N4224-11  
 Misc : 5.26G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP3-0816

Quant Time: Aug 20 01:29:30 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081822S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 19 09:25:06 2022  
 Response via : Initial Calibration

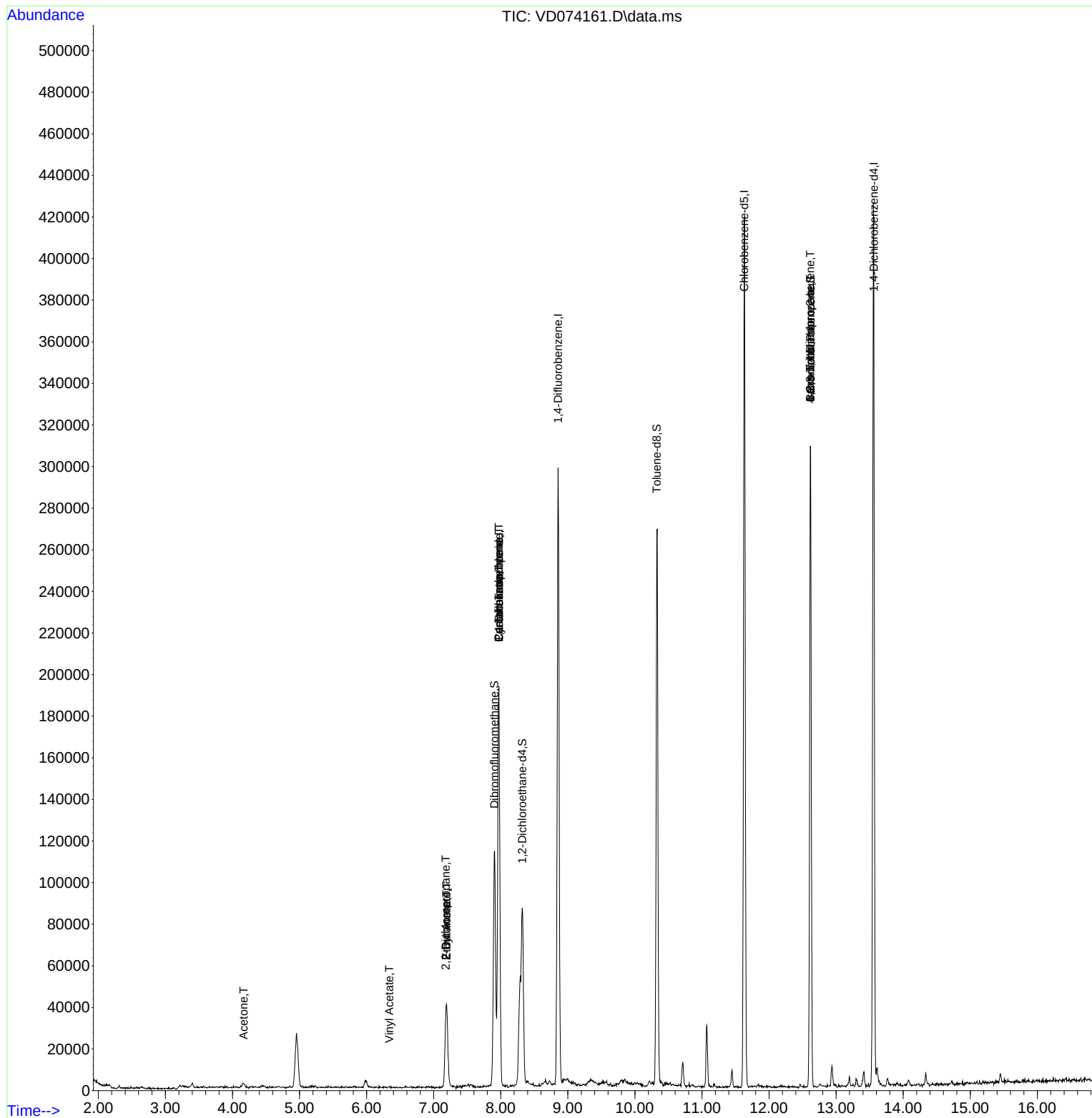
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.973     | 168   | 137172   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.855     | 114   | 247332   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.632    | 117   | 239143   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.561    | 152   | 115231   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.320     | 65    | 64341    | 64.865    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | = 129.740% |          |
| 35) Dibromofluoromethane      | 7.903     | 113   | 83538    | 70.618    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | = 141.240% |          |
| 50) Toluene-d8                | 10.326    | 98    | 181161   | 53.936    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 49 - 140 | Recovery  | = 107.880% |          |
| 62) 4-Bromofluorobenzene      | 12.620    | 95    | 103655   | 56.008    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 25 - 144 | Recovery  | = 112.020% |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.985     | 85    | 292      | Below Cal | #          | 43       |
| 11) Tert butyl alcohol        | 5.220     | 59    | 489      | Below Cal | #          | 74       |
| 16) Acetone                   | 4.167     | 43    | 3426     | 11.593    | ug/l #     | 83       |
| 20) Methylene Chloride        | 4.962     | 84    | 20054    | Below Cal | #          | 77       |
| 23) Vinyl Acetate             | 6.338     | 43    | 59       | 7.600     | ug/l #     | 75       |
| 25) 2-Butanone                | 7.191     | 43    | 2590     | 5.371     | ug/l       | 98       |
| 26) 2,2-Dichloropropane       | 7.179     | 77    | 2655     | 1.015     | ug/l #     | 54       |
| 31) Cyclohexane               | 7.973     | 56    | 3656     | 1.259     | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.973     | 75    | 11890    | 4.696     | ug/l #     | 51       |
| 37) Ethyl Acetate             | 7.191     | 43    | 2590     | 2.283     | ug/l #     | 1        |
| 38) Carbon Tetrachloride      | 7.973     | 117   | 14782    | 5.904     | ug/l #     | 18       |
| 71) Bromoform                 | 12.614    | 173   | 1060     | 1.127     | ug/l #     | 29       |
| 76) 1,2,3-Trichloropropane    | 12.614    | 75    | 52253    | 43.788    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.614    | 75    | 52253    | 114.582   | ug/l #     | 7        |
| -----                         |           |       |          |           |            |          |

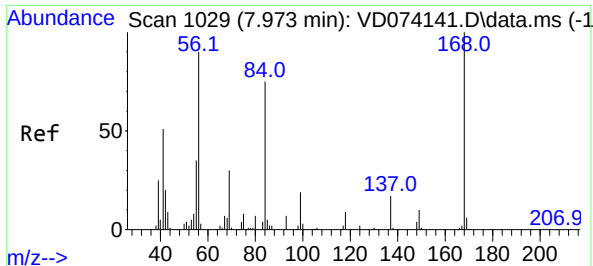
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_D  
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TP3-0816

Quant Time: Aug 20 01:29:30 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D081822S.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 19 09:25:06 2022  
Response via : Initial Calibration

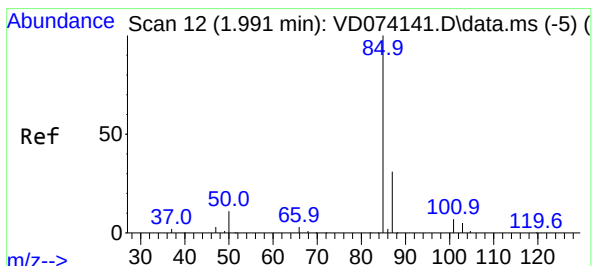
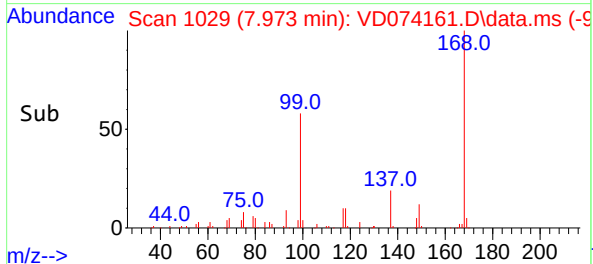
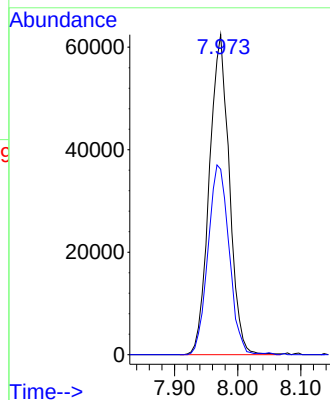
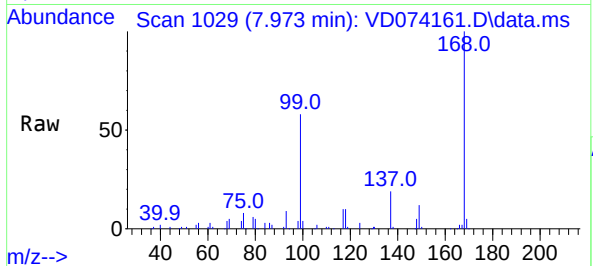




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.973 min Scan# 10  
Delta R.T. 0.000 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

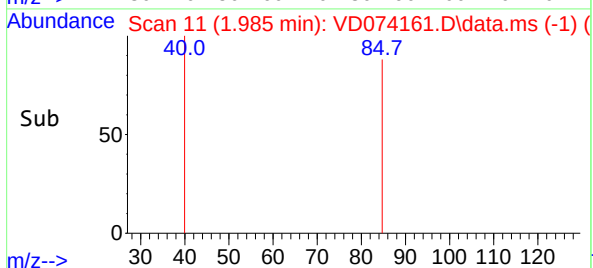
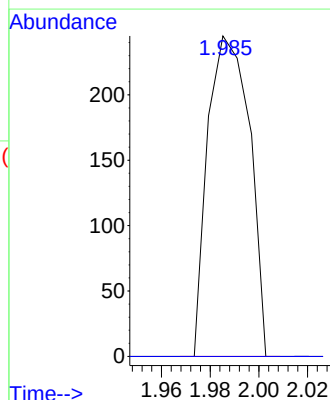
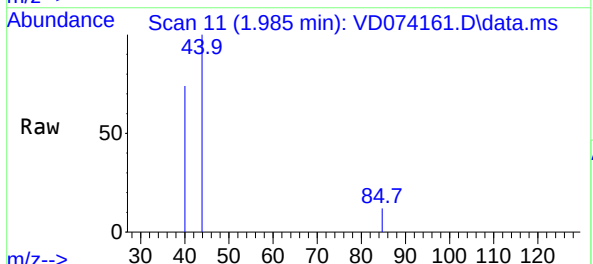
Instrument :  
MSVOA\_D  
ClientSampleId :  
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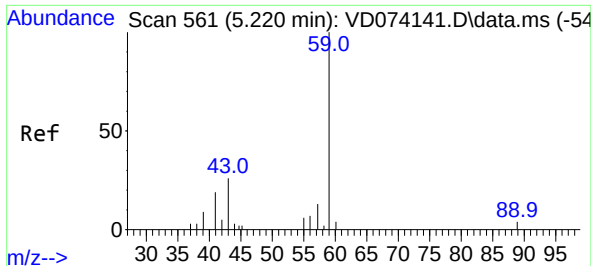
Tgt Ion:168 Resp: 137172  
Ion Ratio Lower Upper  
168 100  
99 57.9 49.8 74.6



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.985 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

Tgt Ion: 85 Resp: 292  
Ion Ratio Lower Upper  
85 100  
87 0.0 15.7 47.0#

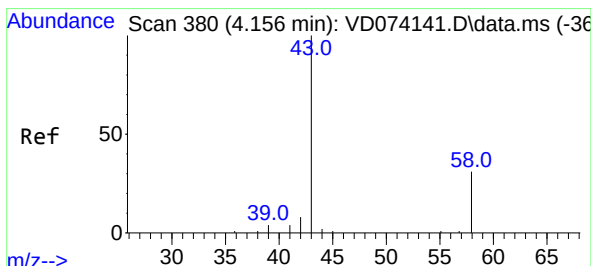
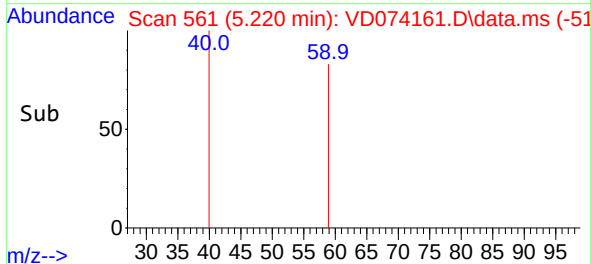
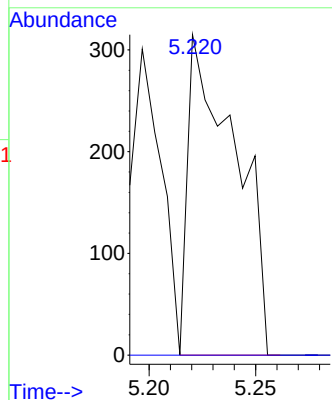
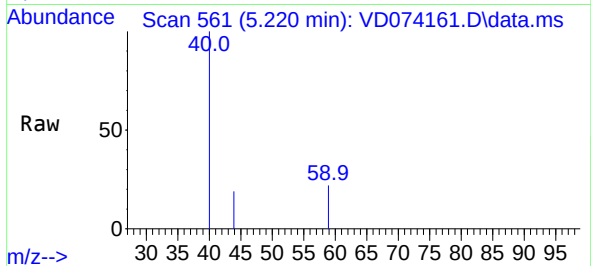




#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 5.220 min Scan# 50  
Delta R.T. 0.000 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

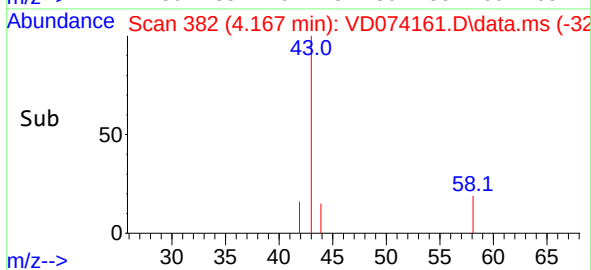
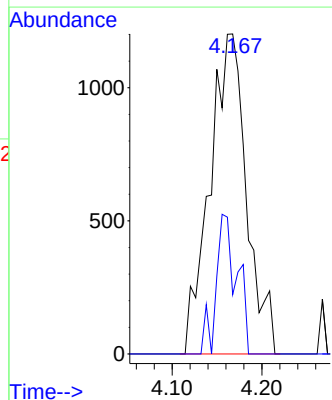
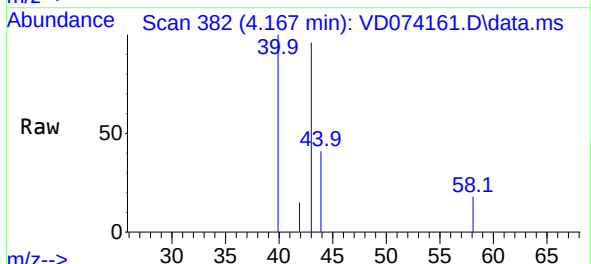
Instrument :  
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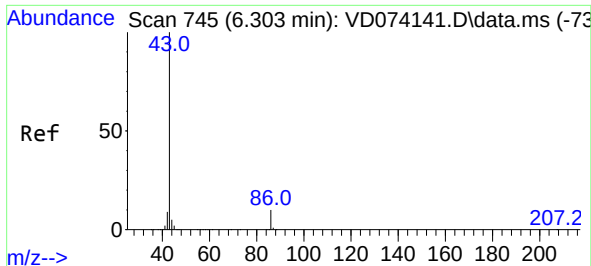
Tgt Ion: 59 Resp: 489  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.6#



#16  
Acetone  
Concen: 11.593 ug/l  
RT: 4.167 min Scan# 382  
Delta R.T. 0.011 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

Tgt Ion: 43 Resp: 3426  
Ion Ratio Lower Upper  
43 100  
58 18.6 22.1 33.1#

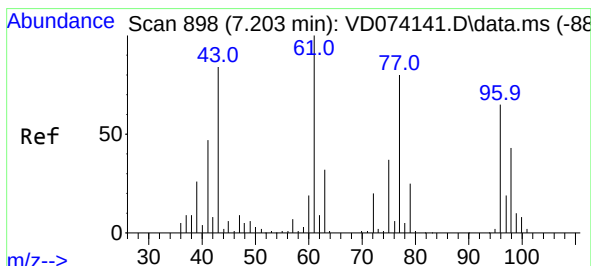
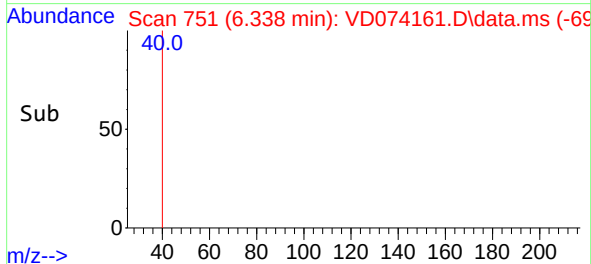
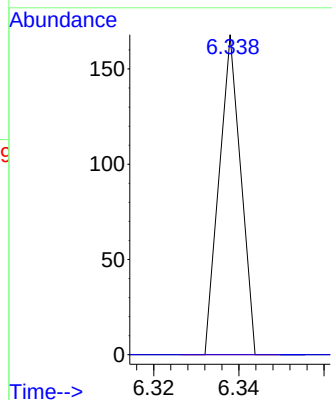
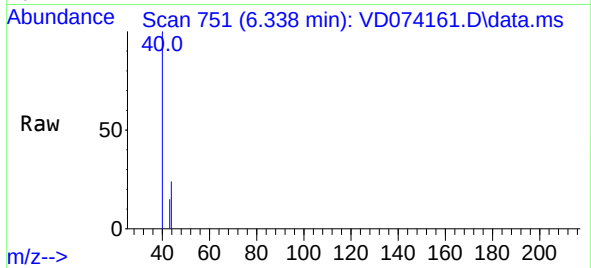




#23  
 Vinyl Acetate  
 Concen: 7.600 ug/l  
 RT: 6.338 min Scan# 745  
 Delta R.T. 0.035 min  
 Lab File: VD074161.D  
 Acq: 19 Aug 2022 21:21

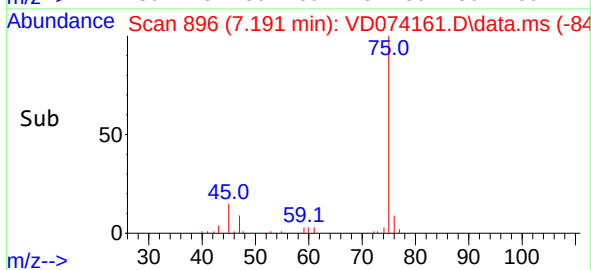
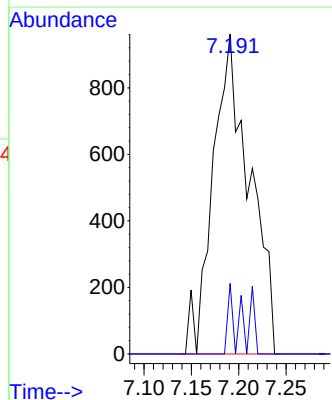
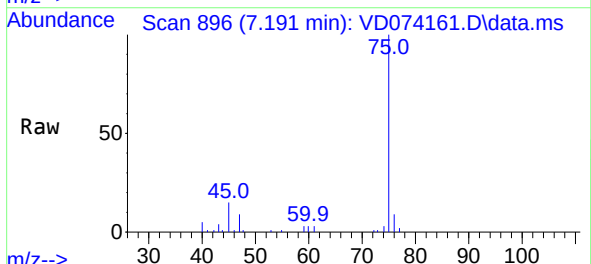
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 TP3-0816

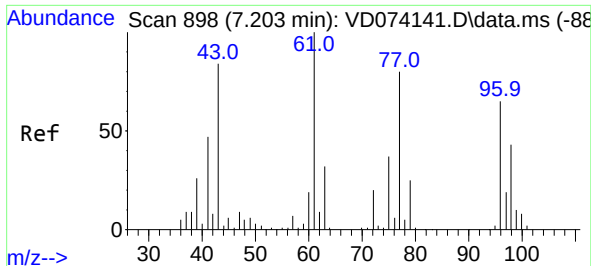
Tgt Ion: 43 Resp: 59  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 7.1 10.7#



#25  
 2-Butanone  
 Concen: 5.371 ug/l  
 RT: 7.191 min Scan# 896  
 Delta R.T. -0.012 min  
 Lab File: VD074161.D  
 Acq: 19 Aug 2022 21:21

Tgt Ion: 43 Resp: 2590  
 Ion Ratio Lower Upper  
 43 100  
 72 22.0 18.6 27.8

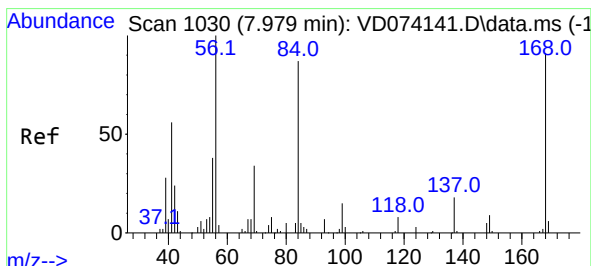
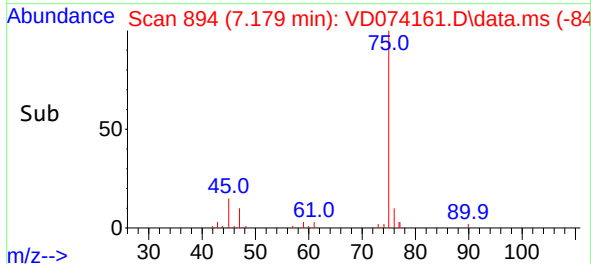
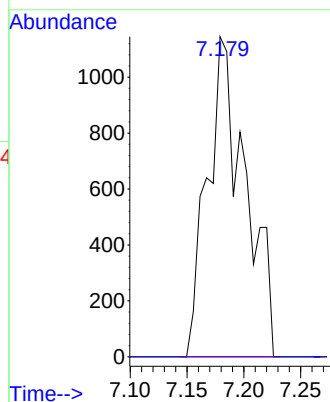
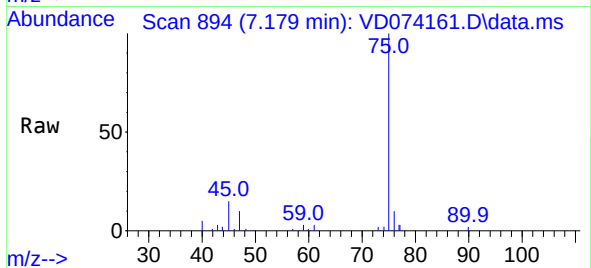




#26  
2,2-Dichloropropane  
Concen: 1.015 ug/l  
RT: 7.179 min Scan# 894  
Delta R.T. -0.024 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

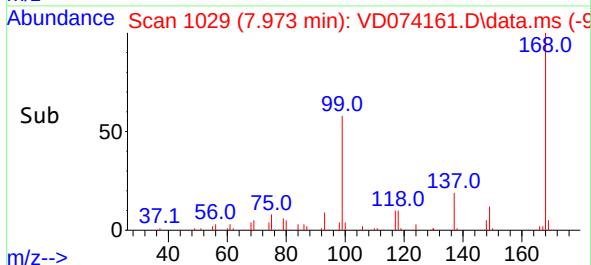
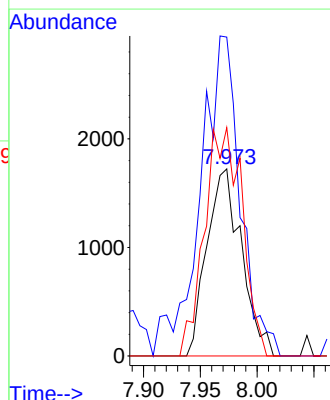
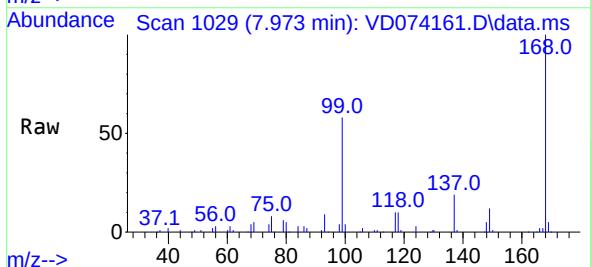
Instrument :  
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TP3-0816

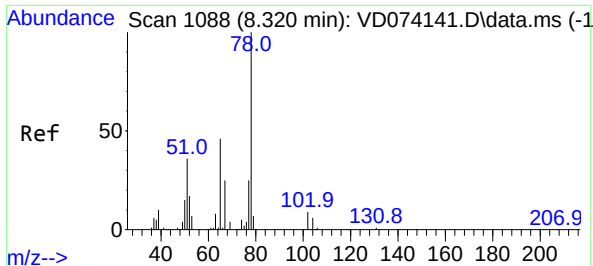
Tgt Ion: 77 Resp: 2655  
Ion Ratio Lower Upper  
77 100  
97 0.0 10.8 32.4#



#31  
Cyclohexane  
Concen: 1.259 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.006 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

Tgt Ion: 56 Resp: 3656  
Ion Ratio Lower Upper  
56 100  
69 170.5 25.4 38.2#  
84 122.1 63.0 94.4#

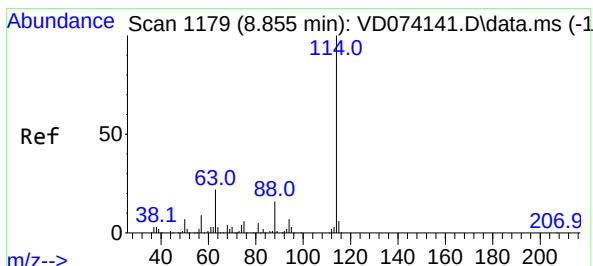
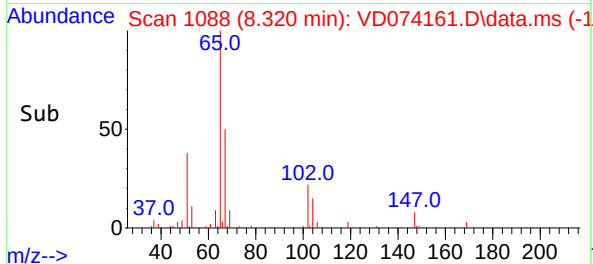
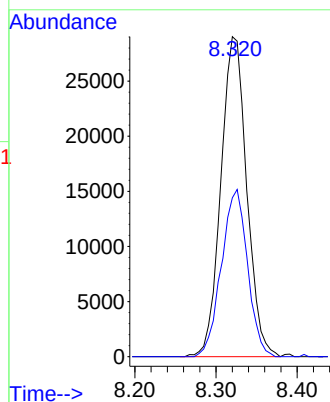
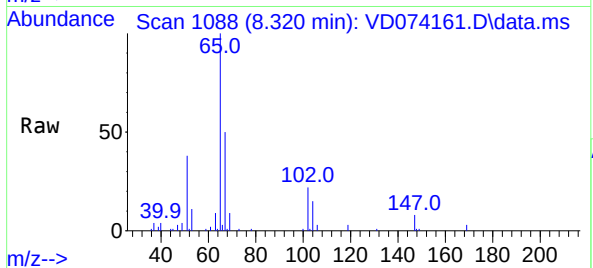




#33  
1,2-Dichloroethane-d4  
Concen: 64.865 ug/l  
RT: 8.320 min Scan# 1088  
Delta R.T. 0.000 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

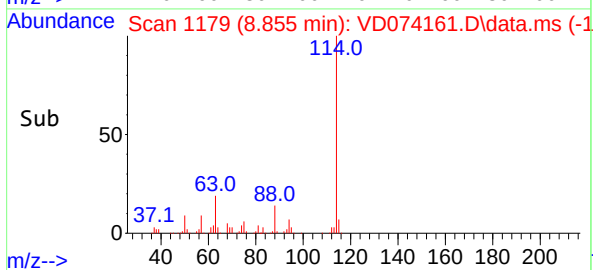
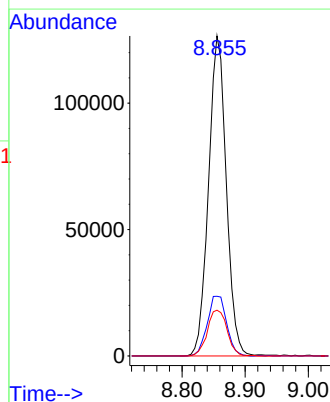
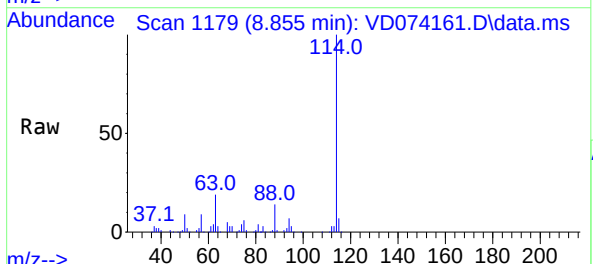
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ClientSampleId :  
TP3-0816

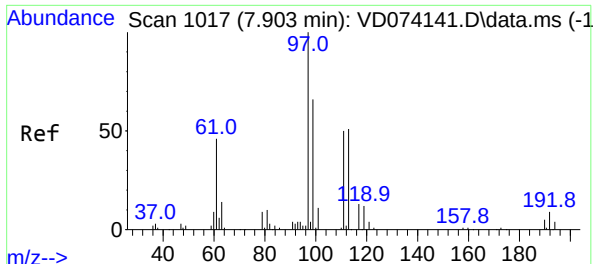
Tgt Ion: 65 Resp: 64341  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 101.4



#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.855 min Scan# 1179  
Delta R.T. 0.000 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

Tgt Ion:114 Resp: 247332  
Ion Ratio Lower Upper  
114 100  
63 18.6 0.0 46.6  
88 14.3 0.0 33.2

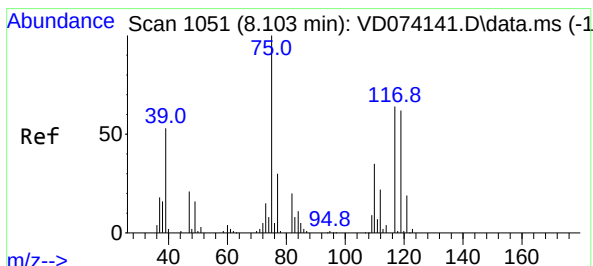
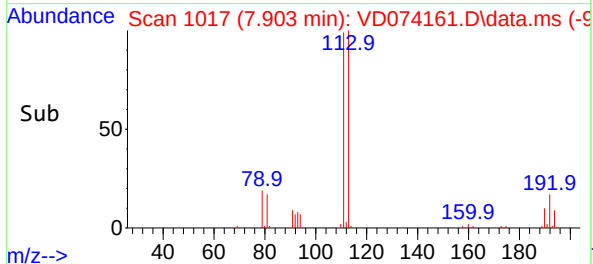
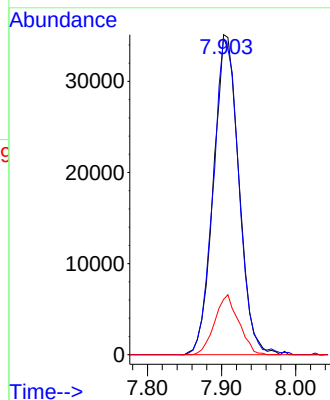
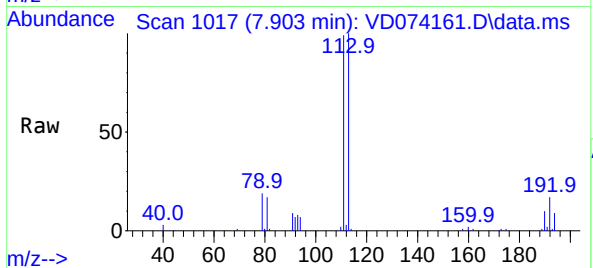




#35  
Dibromofluoromethane  
Concen: 70.618 ug/l  
RT: 7.903 min Scan# 1029  
Delta R.T. -0.000 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

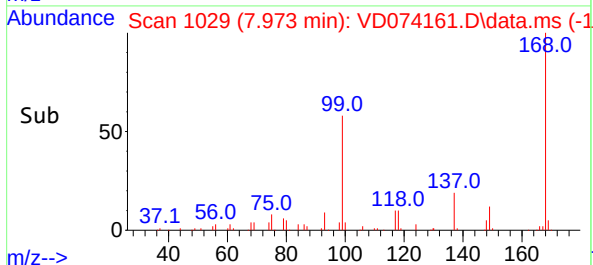
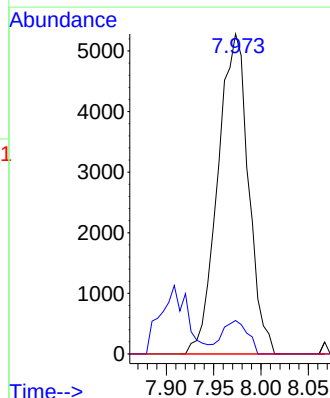
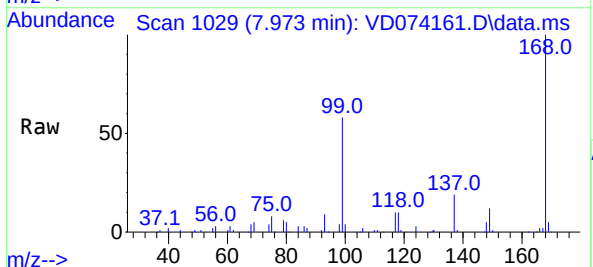
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP3-0816

Tgt Ion:113 Resp: 83538  
Ion Ratio Lower Upper  
113 100  
111 100.1 83.8 125.6  
192 17.7 14.6 21.8

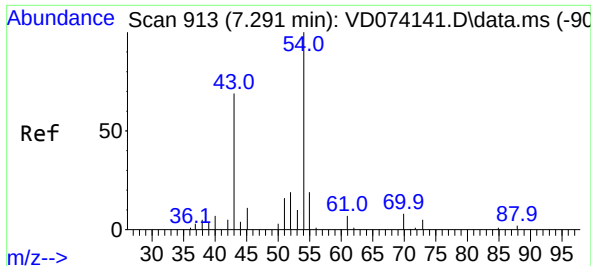


#36  
1,1-Dichloropropene  
Concen: 4.696 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.130 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

Tgt Ion: 75 Resp: 11890  
Ion Ratio Lower Upper  
75 100  
110 8.9 16.4 49.1#  
77 0.0 24.2 36.2#



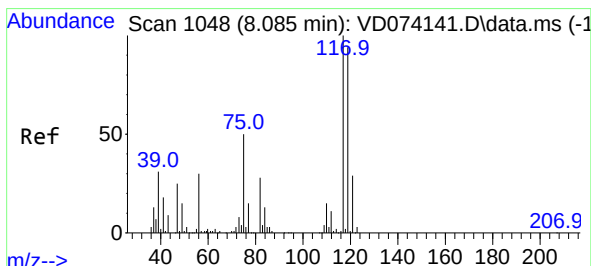
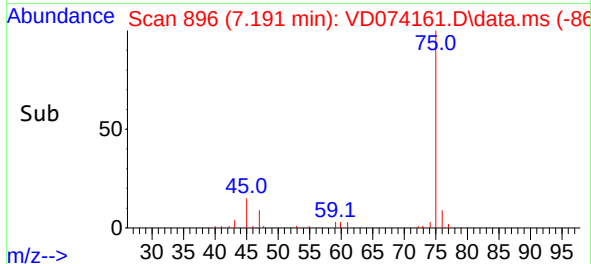
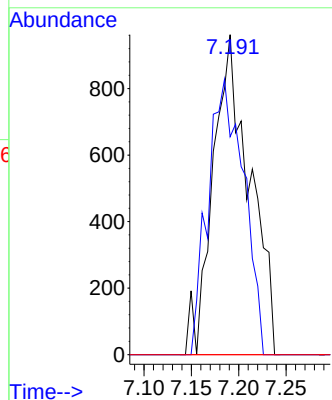
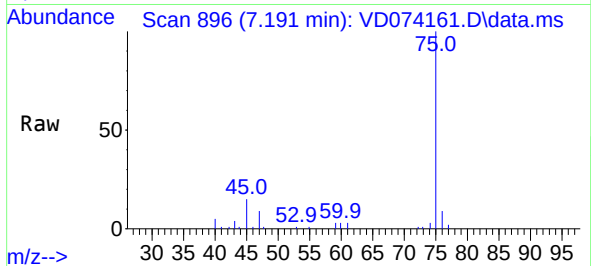




#37  
Ethyl Acetate  
Concen: 2.283 ug/l  
RT: 7.191 min Scan# 896  
Delta R.T. -0.100 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

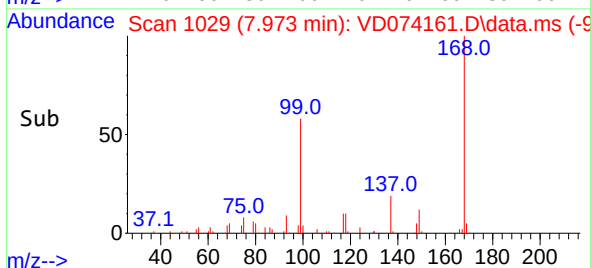
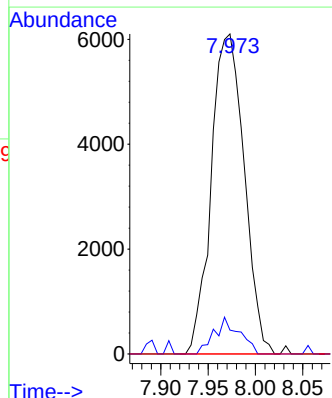
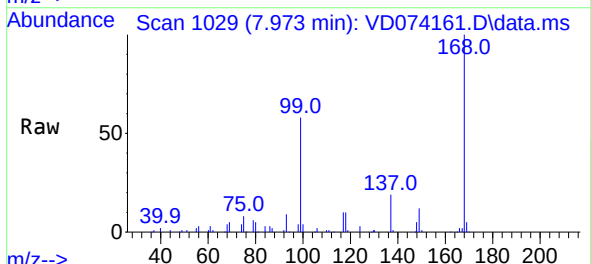
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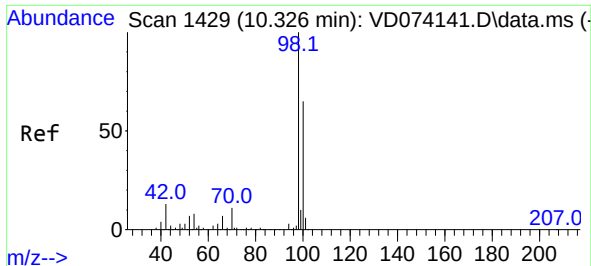
Tgt Ion: 43 Resp: 2590  
Ion Ratio Lower Upper  
43 100  
61 83.9 9.8 14.8#  
70 0.0 6.9 10.3#



#38  
Carbon Tetrachloride  
Concen: 5.904 ug/l  
RT: 7.973 min Scan# 1029  
Delta R.T. -0.112 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

Tgt Ion: 117 Resp: 14782  
Ion Ratio Lower Upper  
117 100  
119 7.5 75.8 113.6#  
121 0.0 24.5 36.7#

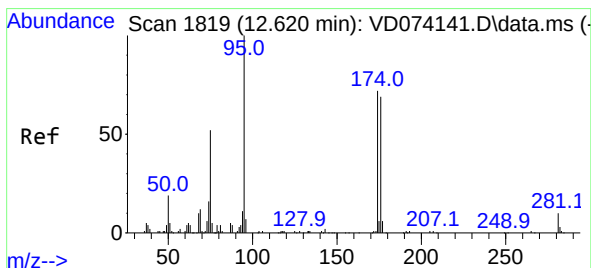
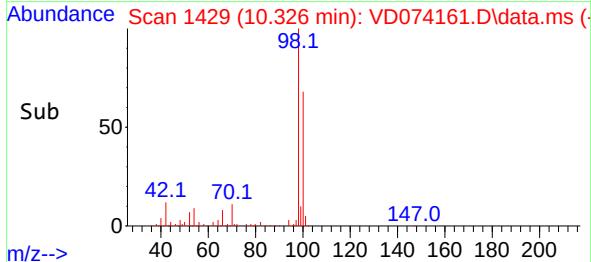
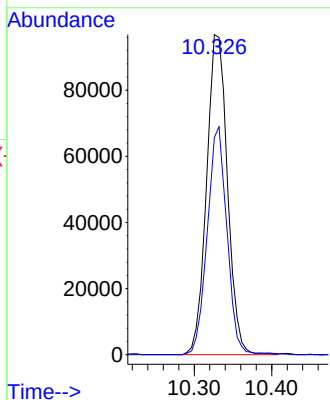
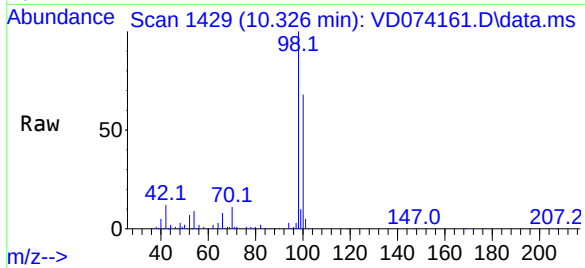




#50  
Toluene-d8  
Concen: 53.936 ug/l  
RT: 10.326 min Scan# 1429  
Delta R.T. -0.000 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

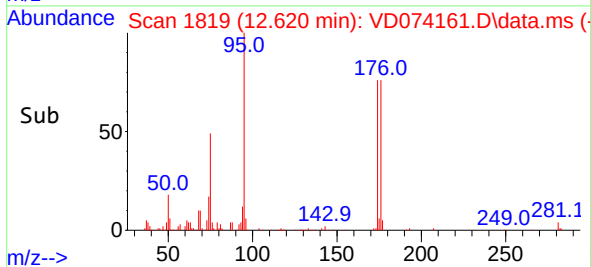
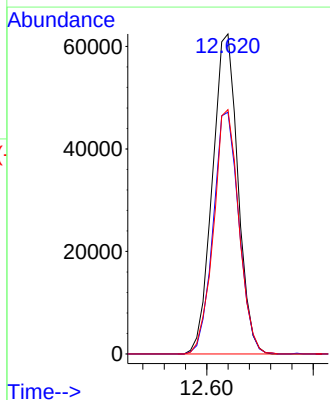
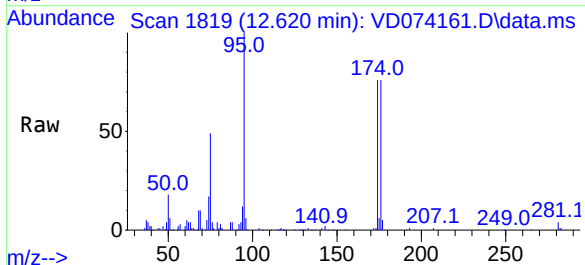
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP3-0816

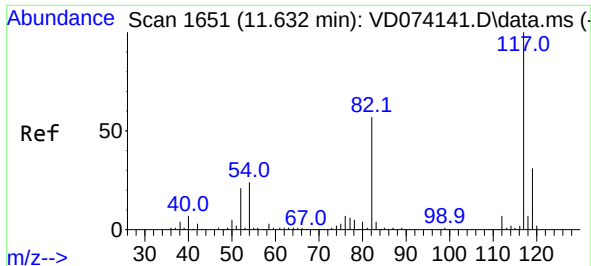
Tgt Ion: 98 Resp: 181161  
Ion Ratio Lower Upper  
98 100  
100 67.1 52.4 78.6



#62  
4-Bromofluorobenzene  
Concen: 56.008 ug/l  
RT: 12.620 min Scan# 1819  
Delta R.T. -0.000 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

Tgt Ion: 95 Resp: 103655  
Ion Ratio Lower Upper  
95 100  
174 76.0 0.0 152.8  
176 75.7 0.0 145.4

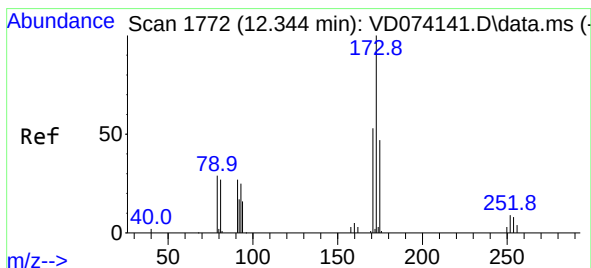
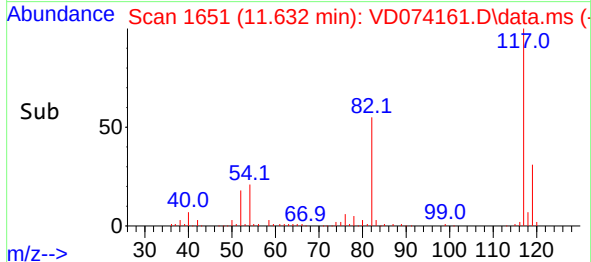
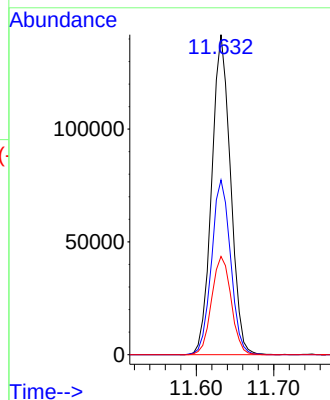
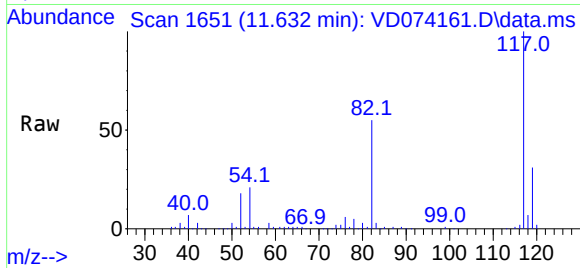




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.632 min Scan# 1170  
Delta R.T. -0.000 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

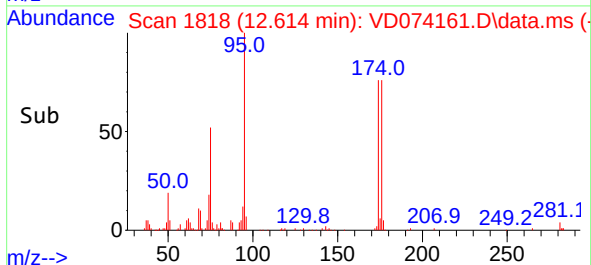
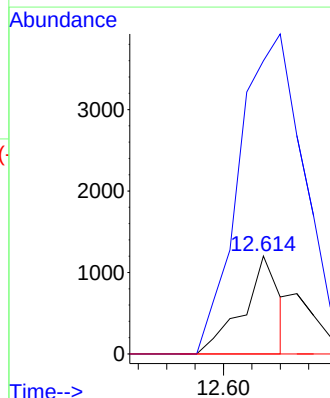
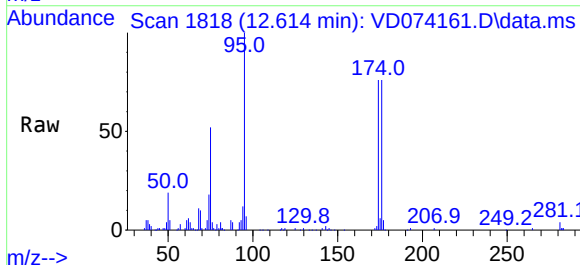
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP3-0816

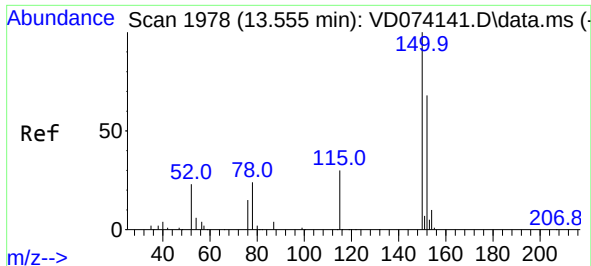
Tgt Ion:117 Resp: 239143  
Ion Ratio Lower Upper  
117 100  
82 54.6 45.3 67.9  
119 30.7 26.6 40.0



#71  
Bromoform  
Concen: 1.127 ug/l  
RT: 12.614 min Scan# 1818  
Delta R.T. 0.270 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

Tgt Ion:173 Resp: 1060  
Ion Ratio Lower Upper  
173 100  
175 0.0 23.9 71.8#  
254 0.0 0.0 0.0

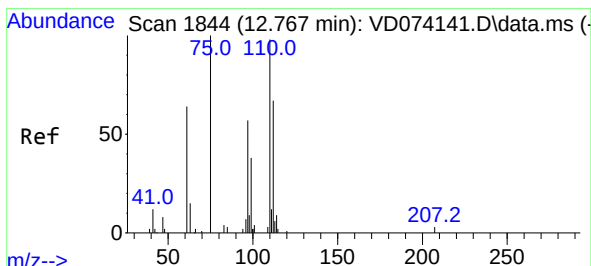
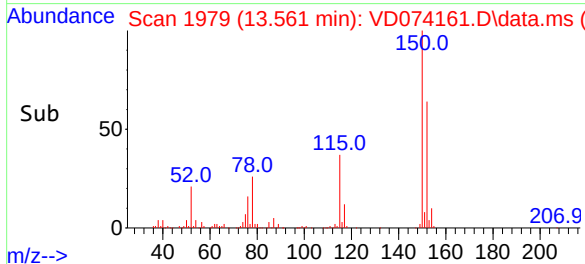
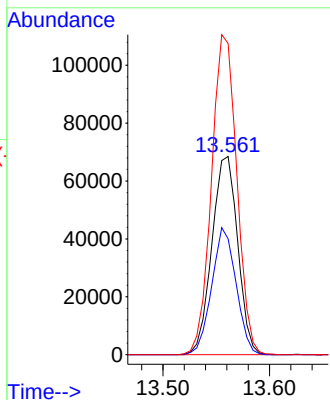
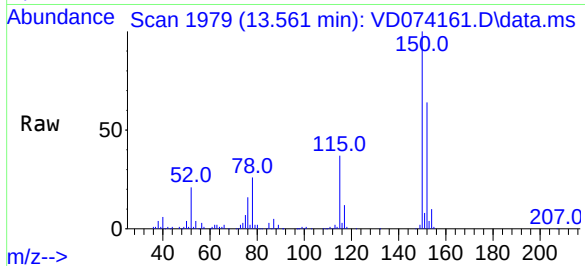




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.561 min Scan# 1978  
Delta R.T. 0.006 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

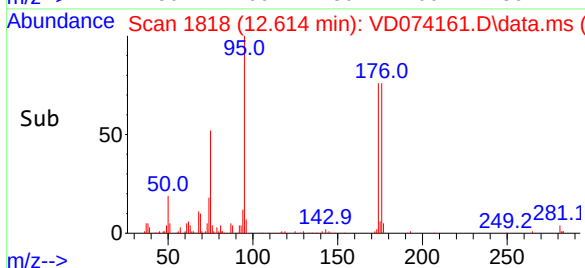
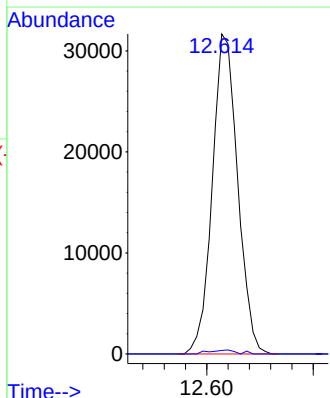
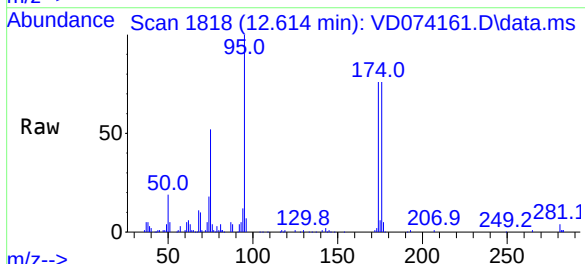
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP3-0816

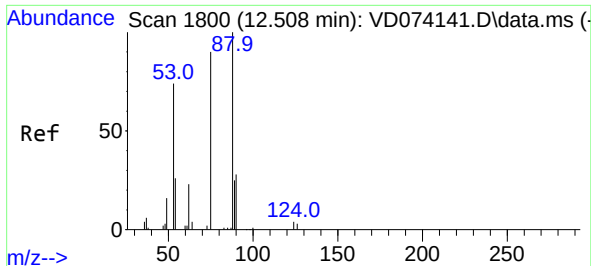
Tgt Ion:152 Resp: 115231  
Ion Ratio Lower Upper  
152 100  
115 60.5 31.3 93.8  
150 158.3 0.0 348.6



#76  
1,2,3-Trichloropropane  
Concen: 43.788 ug/l  
RT: 12.614 min Scan# 1818  
Delta R.T. -0.153 min  
Lab File: VD074161.D  
Acq: 19 Aug 2022 21:21

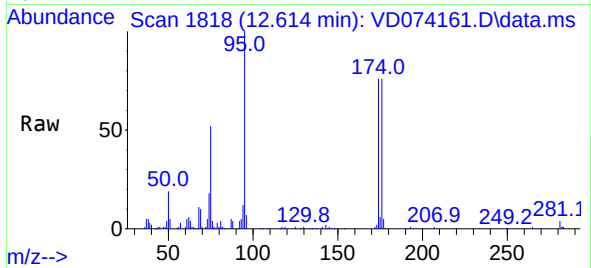
Tgt Ion: 75 Resp: 52253  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 114.582 ug/l  
 RT: 12.614 min Scan# 11  
 Delta R.T. 0.106 min  
 Lab File: VD074161.D  
 Acq: 19 Aug 2022 21:21

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP3-0816



Tgt Ion: 75 Resp: 52253

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 75  | 100   |       |        |
| 53  | 0.1   | 86.5  | 129.7# |
| 89  | 0.0   | 33.9  | 50.9#  |

