

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042023\  
 Data File : VY013377.D  
 Acq On : 20 Apr 2023 18:44  
 Operator : KP/MD  
 Sample : 02406-05  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SB-14-8.0-8.5

Quant Time: Apr 21 02:16:19 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041223S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Apr 13 05:55:16 2023  
 Response via : Initial Calibration

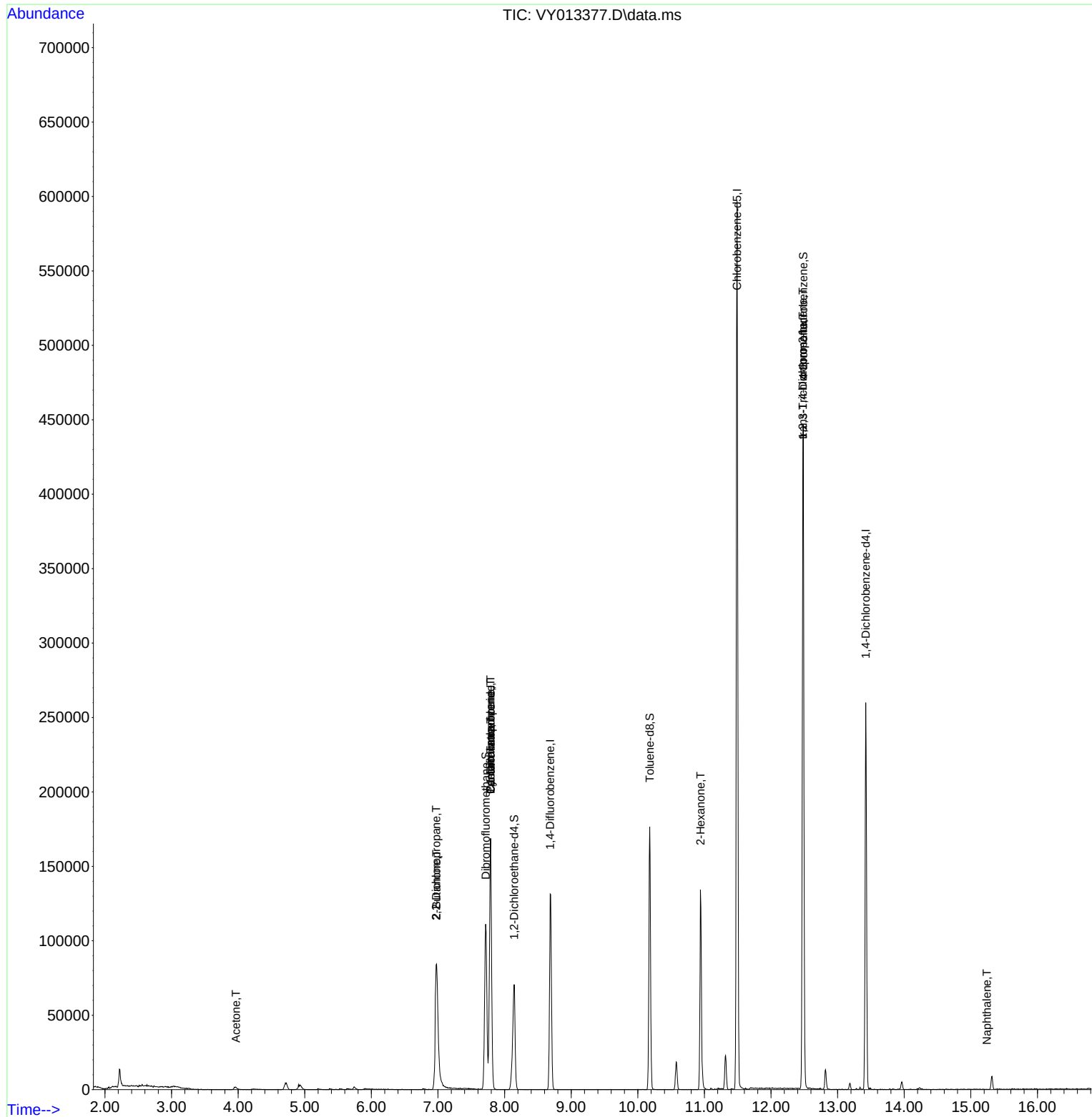
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min)  |
|-------------------------------|--------|-------|----------|-----------|--------|-----------|
| -----                         |        |       |          |           |        |           |
| Internal Standards            |        |       |          |           |        |           |
| 1) Pentafluorobenzene         | 7.789  | 168   | 129105   | 50.000    | ug/l   | 0.00      |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 98902    | 50.000    | ug/l   | 0.00      |
| 63) Chlorobenzene-d5          | 11.490 | 117   | 306317   | 50.000    | ug/l   | 0.00      |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 64390    | 50.000    | ug/l   | 0.00      |
| System Monitoring Compounds   |        |       |          |           |        |           |
| 33) 1,2-Dichloroethane-d4     | 8.143  | 65    | 62612    | 40.355    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 80.700%   |
| 35) Dibromofluoromethane      | 7.716  | 113   | 72745    | 113.614   | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 227.220%# |
| 50) Toluene-d8                | 10.179 | 98    | 102434   | 42.981    | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery  | =      | 85.960%   |
| 62) 4-Bromofluorobenzene      | 12.483 | 95    | 122377   | 158.038   | ug/l   | 0.00      |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery  | =      | 316.080%# |
| Target Compounds              |        |       |          |           |        |           |
|                               |        |       |          |           | Qvalue |           |
| 11) Tert butyl alcohol        | 4.936  | 59    | 3027     | Below Cal | #      | 74        |
| 16) Acetone                   | 3.967  | 43    | 4227     | 7.924     | ug/l # | 66        |
| 20) Methylene Chloride        | 4.710  | 84    | 3089     | Below Cal | #      | 79        |
| 25) 2-Butanone                | 6.978  | 43    | 5081     | 7.439     | ug/l # | 87        |
| 26) 2,2-Dichloropropane       | 6.972  | 77    | 6695     | 2.921     | ug/l # | 52        |
| 31) Cyclohexane               | 7.789  | 56    | 2478     | 1.056     | ug/l # | 15        |
| 36) 1,1-Dichloropropene       | 7.789  | 75    | 7773     | 8.013     | ug/l # | 54        |
| 38) Carbon Tetrachloride      | 7.789  | 117   | 12051    | 11.236    | ug/l # | 16        |
| 59) 2-Hexanone                | 10.941 | 43    | 820      | 1.596     | ug/l   | 67        |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 63475    | 79.112    | ug/l # | 100       |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 63475    | 164.195   | ug/l # | 13        |
| 95) Naphthalene               | 15.239 | 128   | 19       | 3.211     | ug/l # | 69        |
| -----                         |        |       |          |           |        |           |

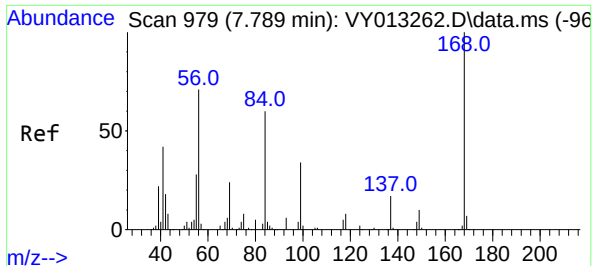
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY042023\  
Data File : VY013377.D  
Acq On : 20 Apr 2023 18:44  
Operator : KP/MD  
Sample : 02406-05  
Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-14-8.0-8.5

Quant Time: Apr 21 02:16:19 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y041223S.M  
Quant Title : SW846 8260  
QLast Update : Thu Apr 13 05:55:16 2023  
Response via : Initial Calibration

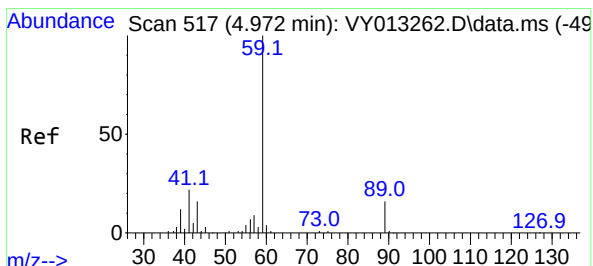
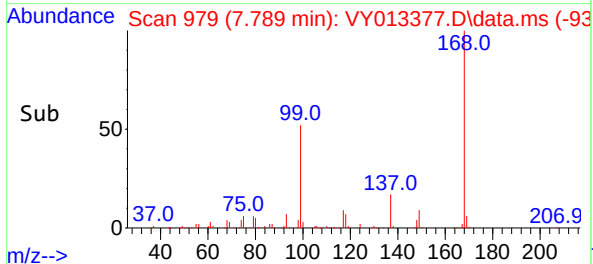
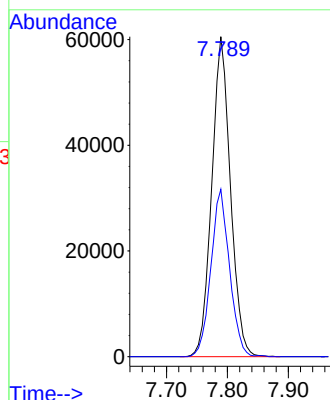
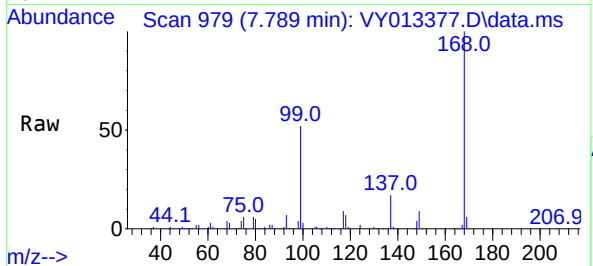




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

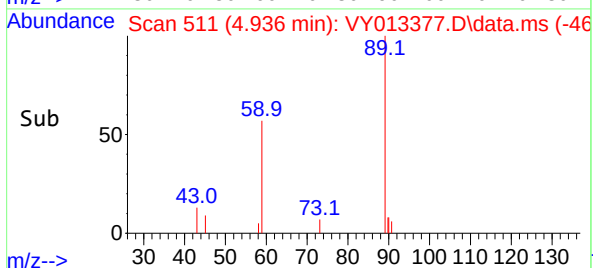
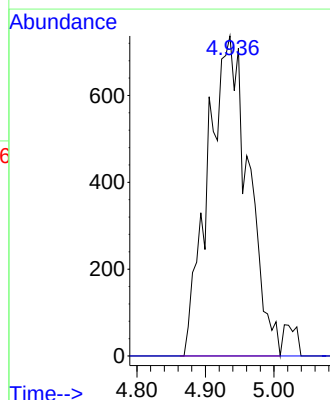
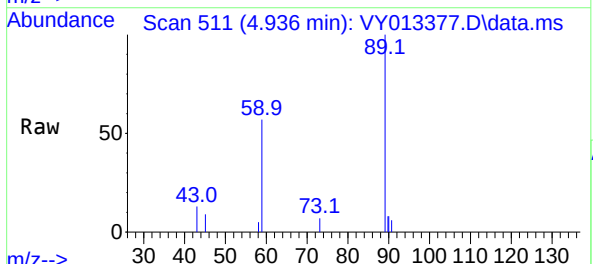
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-14-8.0-8.5

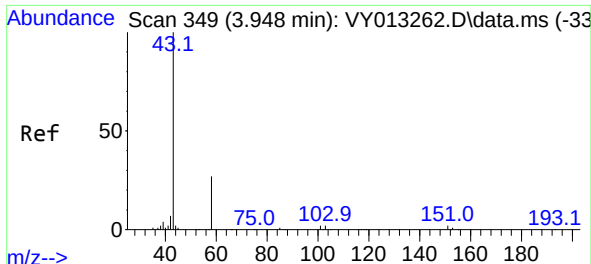
Tgt Ion:168 Resp: 129105  
Ion Ratio Lower Upper  
168 100  
99 52.3 41.7 62.5



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.936 min Scan# 511  
Delta R.T. -0.036 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

Tgt Ion: 59 Resp: 3027  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.7 11.5#

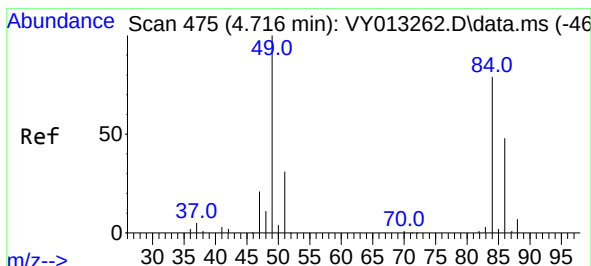
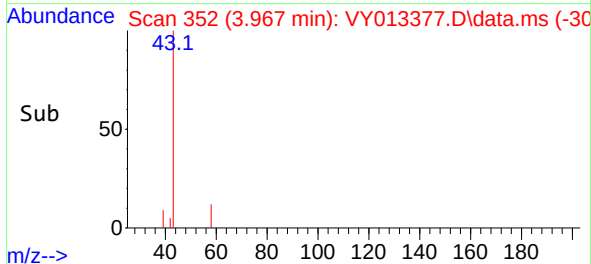
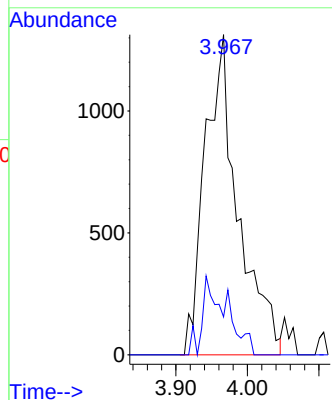
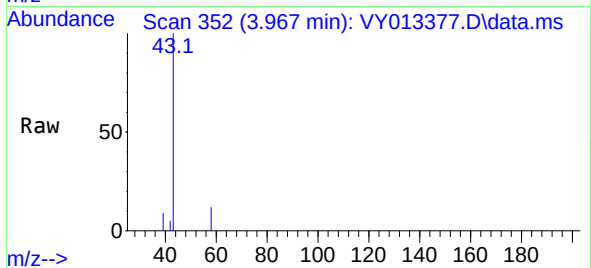




#16  
Acetone  
Concen: 7.924 ug/l  
RT: 3.967 min Scan# 31  
Delta R.T. 0.018 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

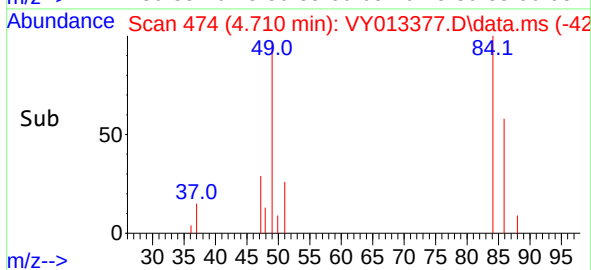
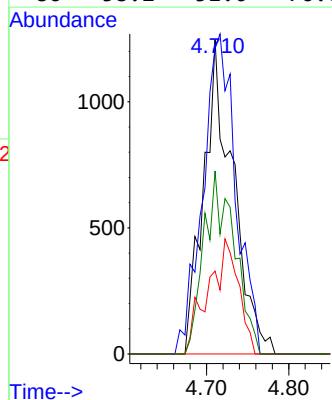
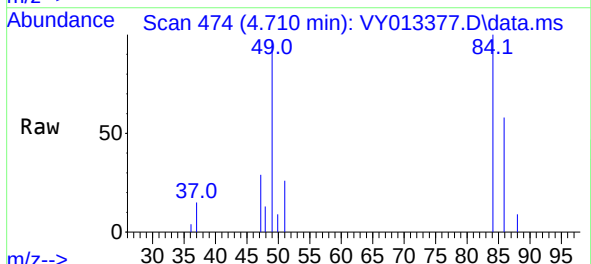
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-14-8.0-8.5

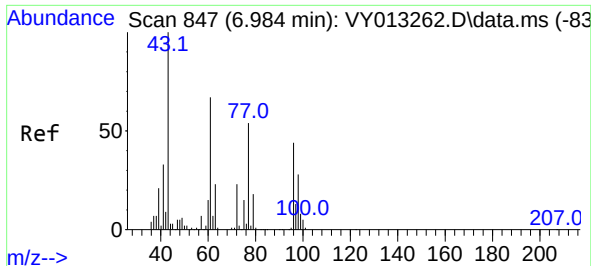
Tgt Ion: 43 Resp: 4227  
Ion Ratio Lower Upper  
43 100  
58 11.8 24.2 36.2#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 4.710 min Scan# 474  
Delta R.T. -0.006 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

Tgt Ion: 84 Resp: 3089  
Ion Ratio Lower Upper  
84 100  
49 97.1 102.6 154.0#  
51 26.4 31.9 47.9#  
86 58.2 51.0 76.6

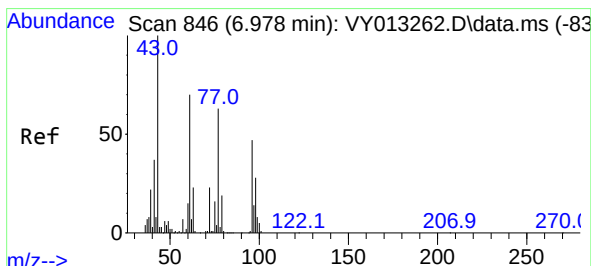
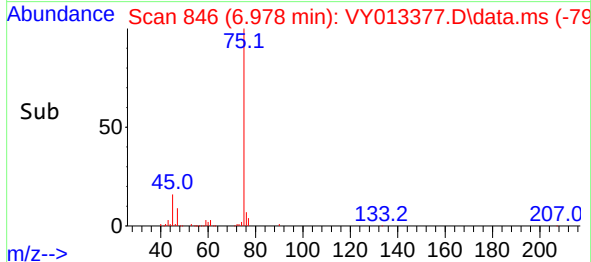
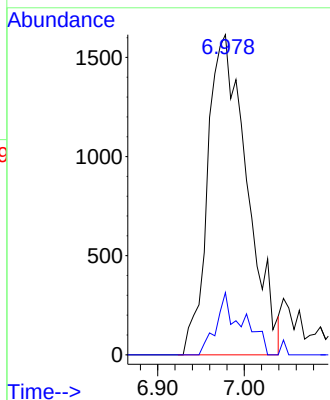
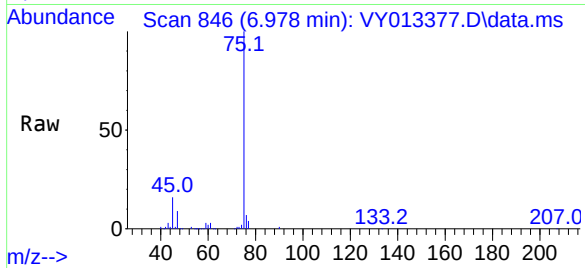




#25  
2-Butanone  
Concen: 7.439 ug/l  
RT: 6.978 min Scan# 84  
Delta R.T. -0.006 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

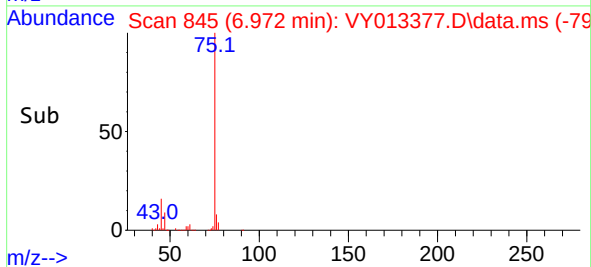
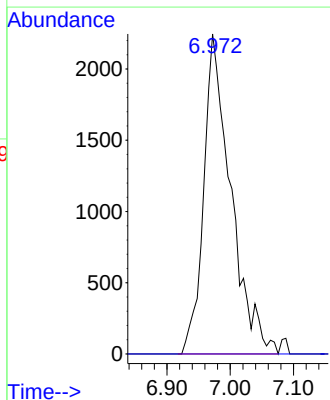
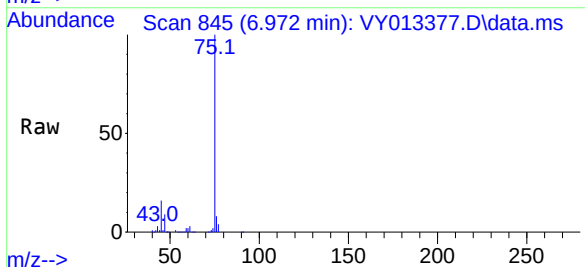
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-14-8.0-8.5

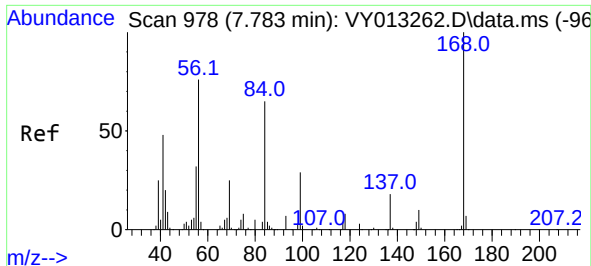
Tgt Ion: 43 Resp: 5081  
Ion Ratio Lower Upper  
43 100  
72 19.4 21.0 31.4#



#26  
2,2-Dichloropropane  
Concen: 2.921 ug/l  
RT: 6.972 min Scan# 845  
Delta R.T. -0.006 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

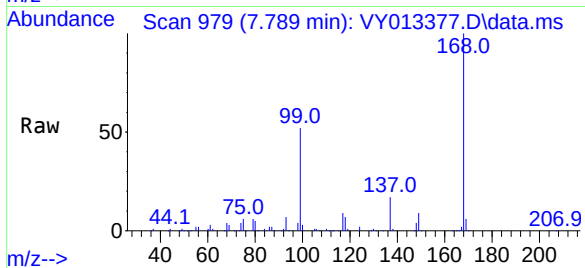
Tgt Ion: 77 Resp: 6695  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.7 35.0#



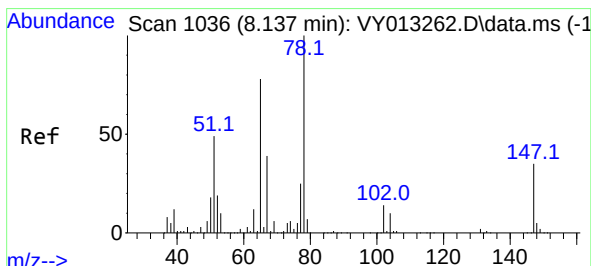
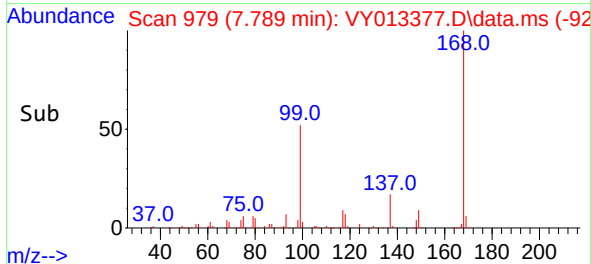
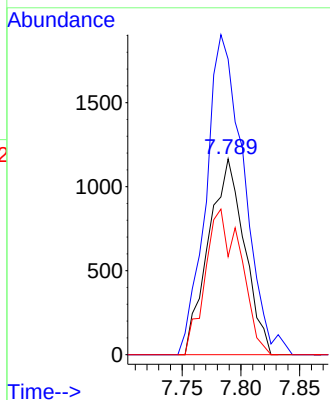


#31  
Cyclohexane  
Concen: 1.056 ug/l  
RT: 7.789 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-14-8.0-8.5

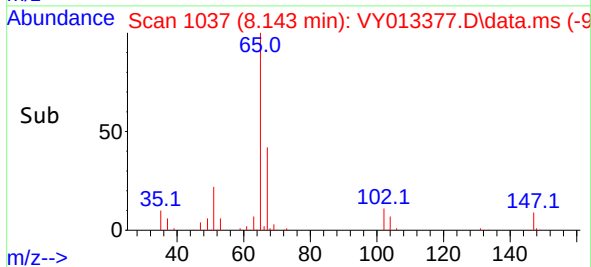
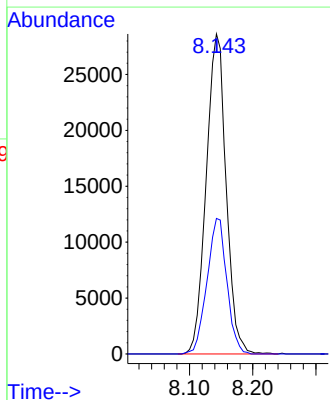
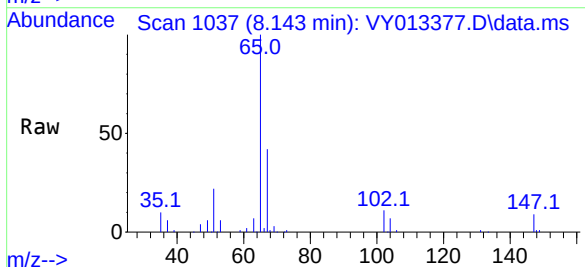


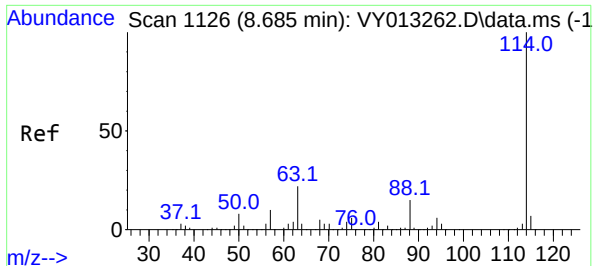
Tgt Ion: 56 Resp: 2478  
Ion Ratio Lower Upper  
56 100  
69 150.9 25.7 38.5#  
84 50.1 64.3 96.5#



#33  
1,2-Dichloroethane-d4  
Concen: 40.355 ug/l  
RT: 8.143 min Scan# 1037  
Delta R.T. 0.006 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

Tgt Ion: 65 Resp: 62612  
Ion Ratio Lower Upper  
65 100  
67 42.1 0.0 104.0

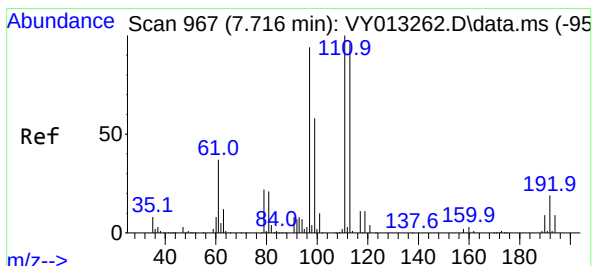
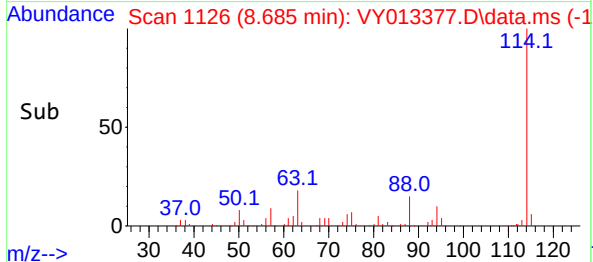
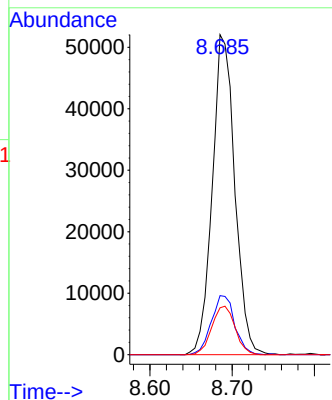
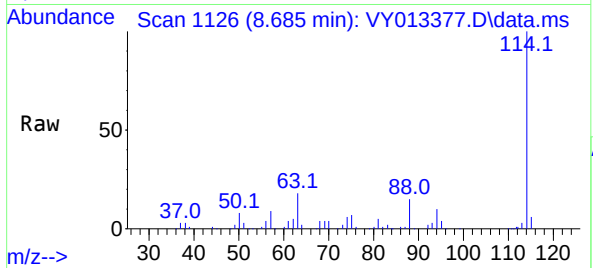




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.685 min Scan# 1126  
Delta R.T. -0.000 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

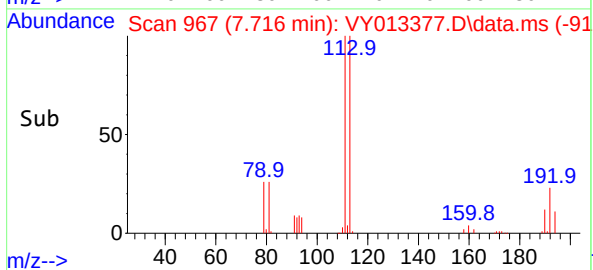
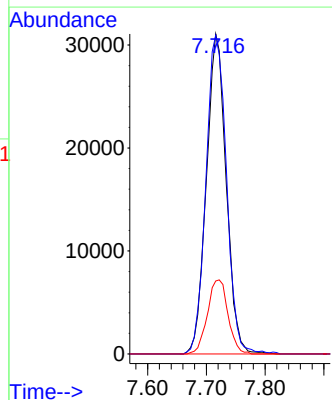
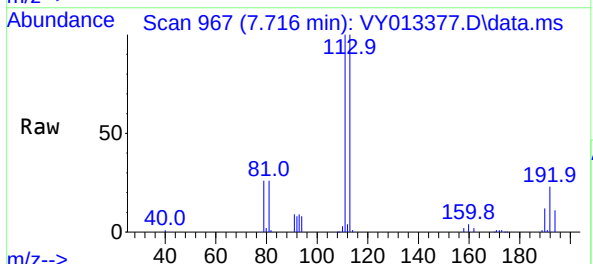
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-14-8.0-8.5

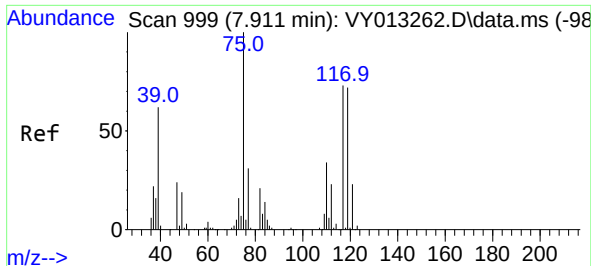
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 114   | Resp: | 98902 |
| Ion Ratio | Lower | Upper |       |
| 114       | 100   |       |       |
| 63        | 18.4  | 0.0   | 37.4  |
| 88        | 14.6  | 0.0   | 28.6  |



#35  
Dibromofluoromethane  
Concen: 113.614 ug/l  
RT: 7.716 min Scan# 967  
Delta R.T. -0.000 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 113   | Resp: | 72745 |
| Ion Ratio | Lower | Upper |       |
| 113       | 100   |       |       |
| 111       | 103.6 | 82.2  | 123.2 |
| 192       | 24.0  | 16.8  | 25.2  |



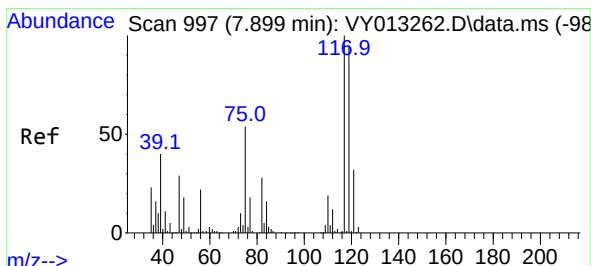
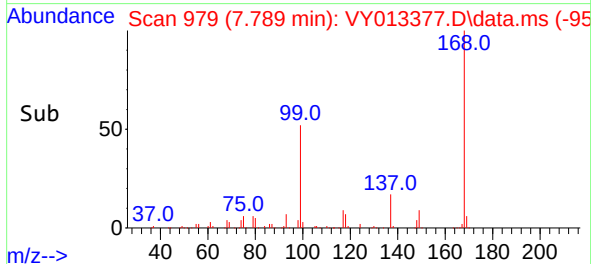
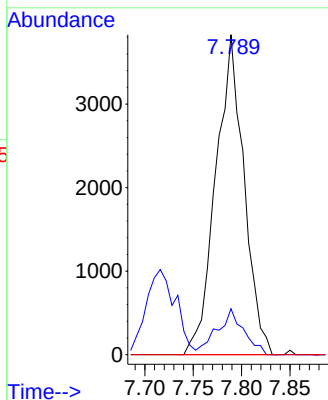
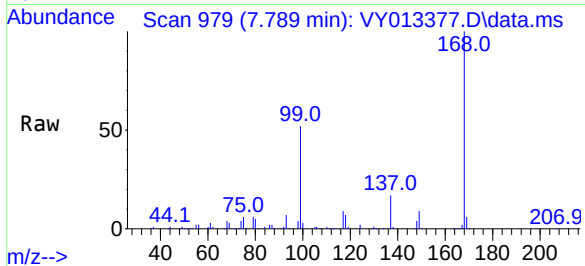


#36  
 1,1-Dichloropropene  
 Concen: 8.013 ug/l  
 RT: 7.789 min Scan# 91  
 Delta R.T. -0.122 min  
 Lab File: VY013377.D  
 Acq: 20 Apr 2023 18:44

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SB-14-8.0-8.5

Tgt Ion: 75 Resp: 7773  

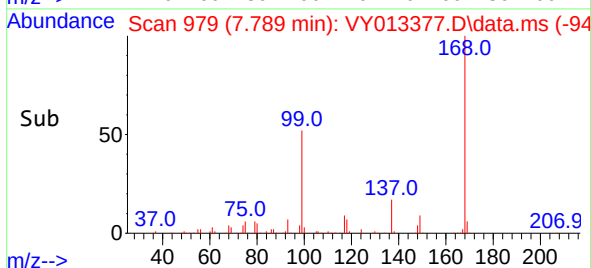
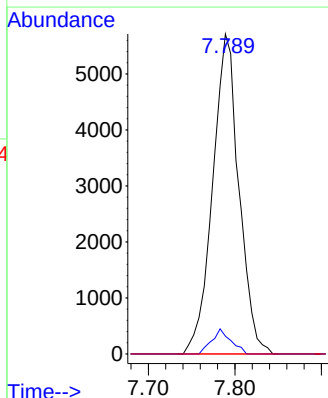
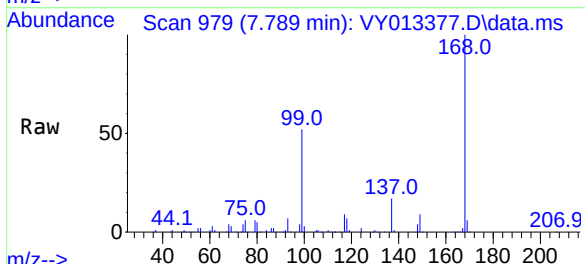
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 75  | 100   |       |       |
| 110 | 13.5  | 17.8  | 53.3# |
| 77  | 0.0   | 25.0  | 37.4# |



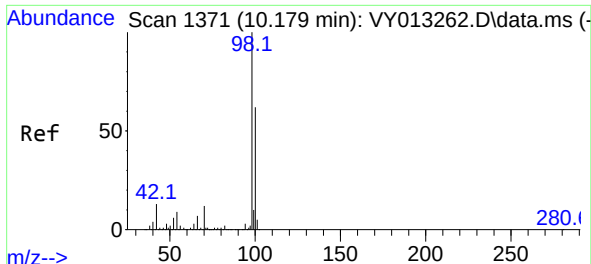
#38  
 Carbon Tetrachloride  
 Concen: 11.236 ug/l  
 RT: 7.789 min Scan# 979  
 Delta R.T. -0.110 min  
 Lab File: VY013377.D  
 Acq: 20 Apr 2023 18:44

Tgt Ion: 117 Resp: 12051  

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 117 | 100   |       |        |
| 119 | 5.5   | 77.2  | 115.8# |
| 121 | 0.0   | 24.7  | 37.1#  |



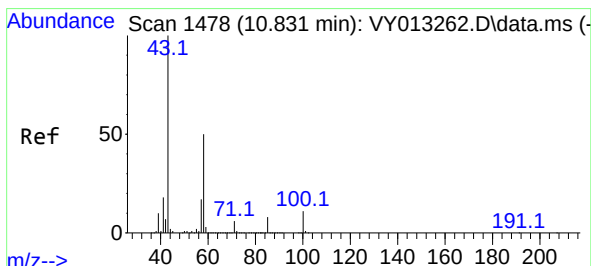
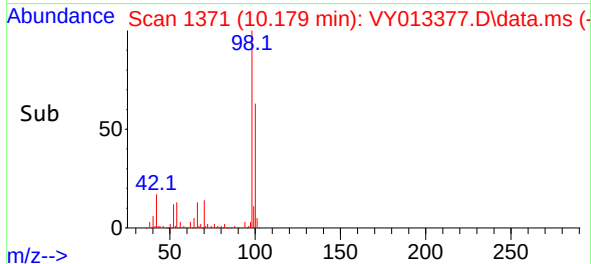
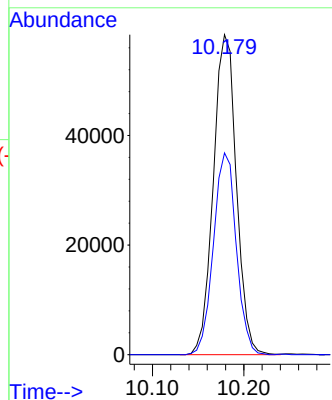
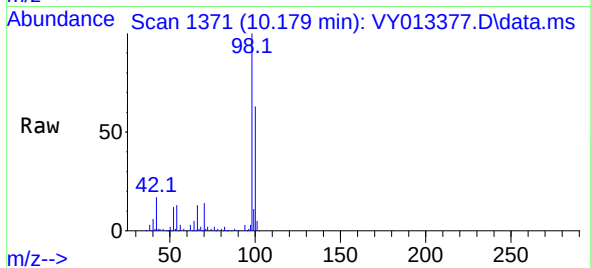




#50  
Toluene-d8  
Concen: 42.981 ug/l  
RT: 10.179 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

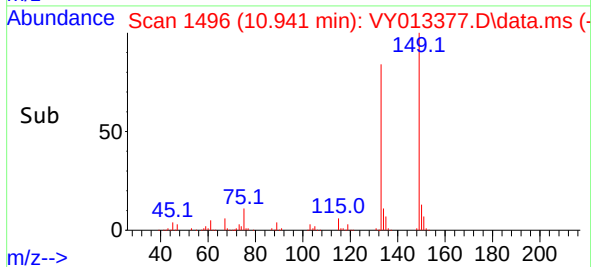
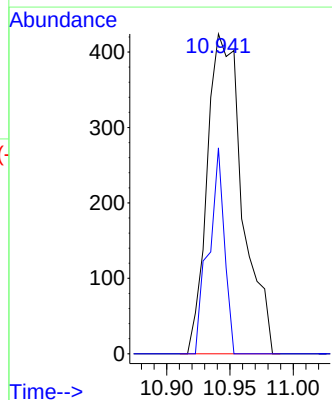
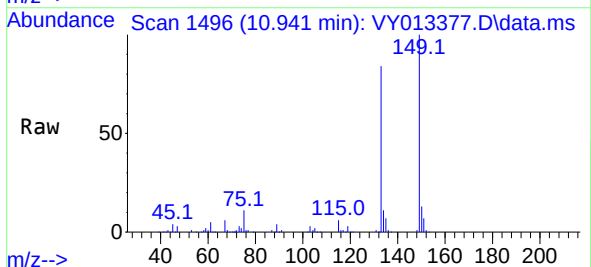
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-14-8.0-8.5

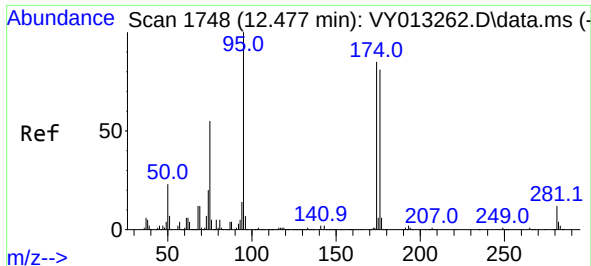
Tgt Ion: 98 Resp: 102434  
Ion Ratio Lower Upper  
98 100  
100 62.4 50.9 76.3



#59  
2-Hexanone  
Concen: 1.596 ug/l  
RT: 10.941 min Scan# 1496  
Delta R.T. 0.110 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

Tgt Ion: 43 Resp: 820  
Ion Ratio Lower Upper  
43 100  
58 28.8 25.9 77.8

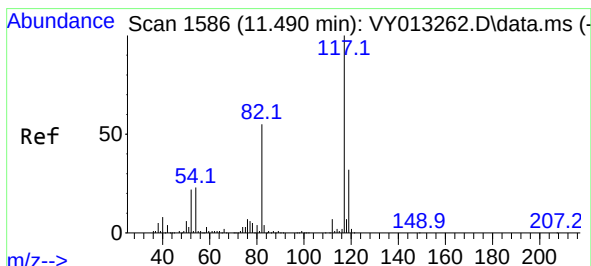
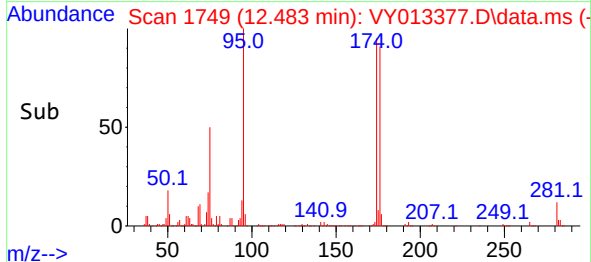
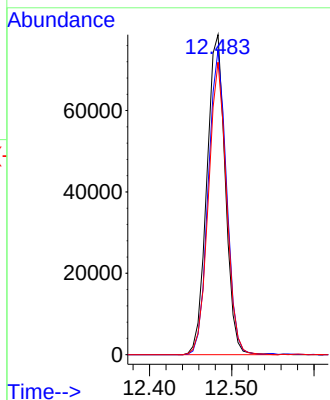
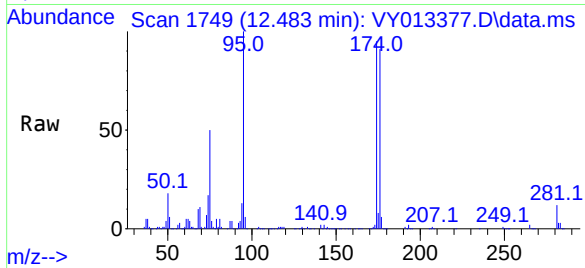




#62  
4-Bromofluorobenzene  
Concen: 158.038 ug/l  
RT: 12.483 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

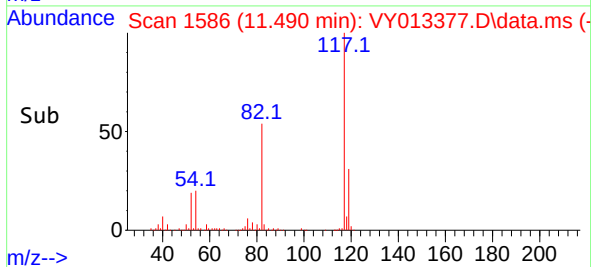
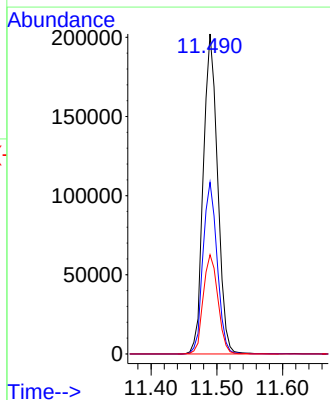
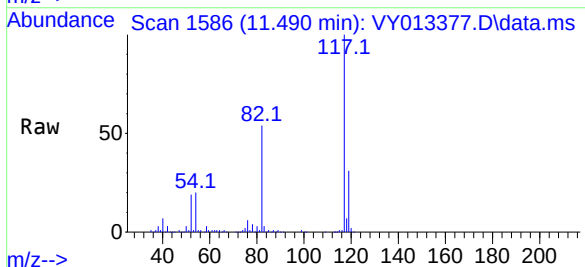
Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-14-8.0-8.5

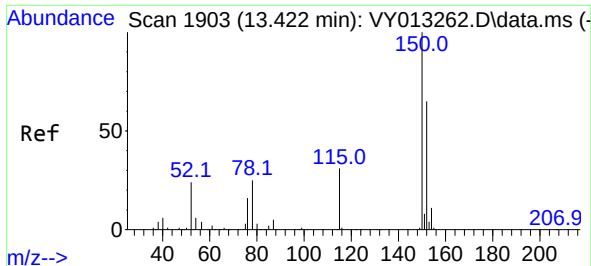
Tgt Ion: 95 Resp: 122377  
Ion Ratio Lower Upper  
95 100  
174 94.3 0.0 176.6  
176 89.6 0.0 170.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.490 min Scan# 1586  
Delta R.T. -0.000 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

Tgt Ion: 117 Resp: 306317  
Ion Ratio Lower Upper  
117 100  
82 53.7 45.4 68.0  
119 31.0 25.6 38.4

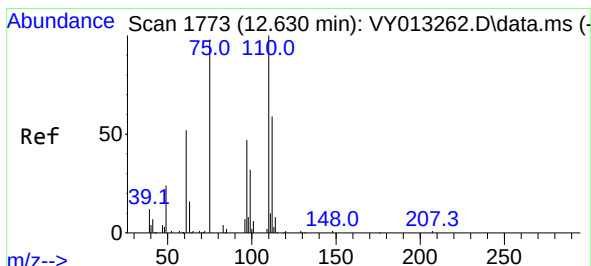
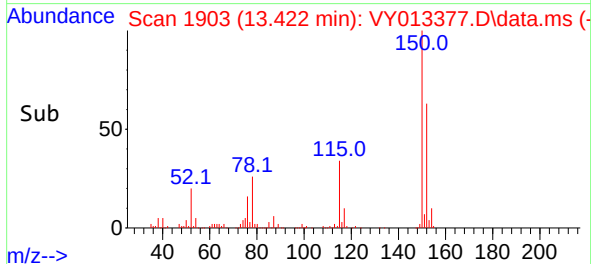
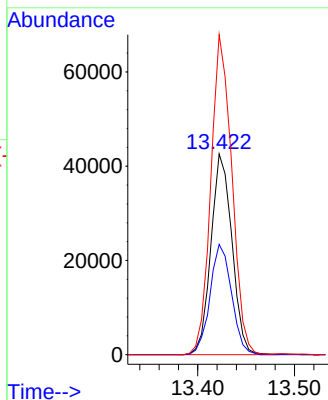
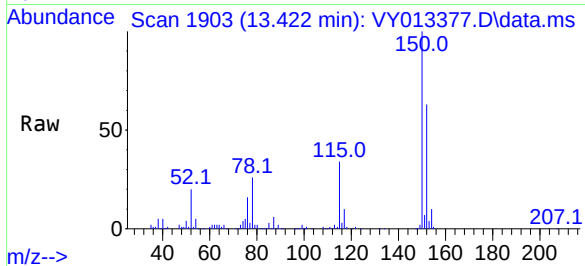




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.422 min Scan# 1903  
 Delta R.T. -0.000 min  
 Lab File: VY013377.D  
 Acq: 20 Apr 2023 18:44

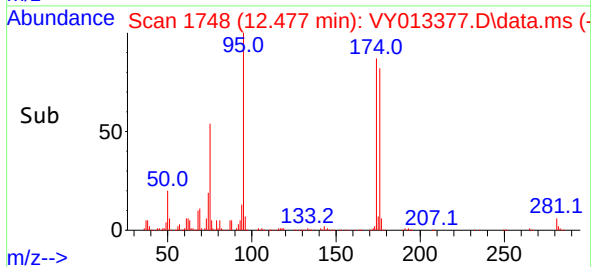
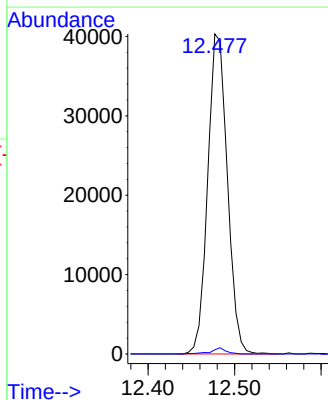
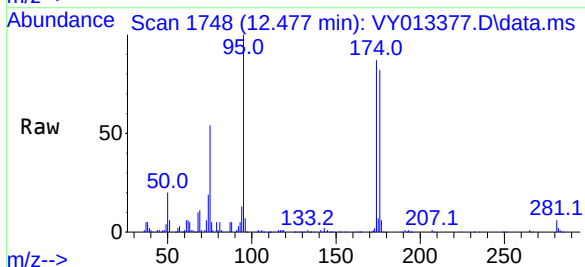
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 SB-14-8.0-8.5

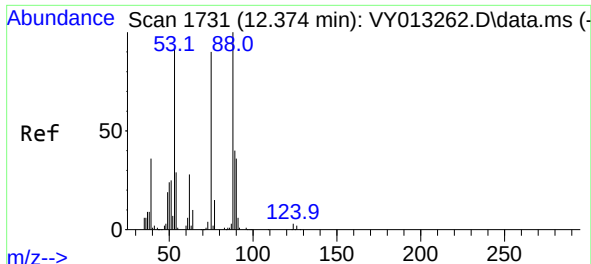
Tgt Ion:152 Resp: 64390  
 Ion Ratio Lower Upper  
 152 100  
 115 56.3 27.1 81.3  
 150 159.3 0.0 347.8



#76  
 1,2,3-Trichloropropane  
 Concen: 79.112 ug/l  
 RT: 12.477 min Scan# 1748  
 Delta R.T. -0.152 min  
 Lab File: VY013377.D  
 Acq: 20 Apr 2023 18:44

Tgt Ion: 75 Resp: 63475  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 0.0 0.0#

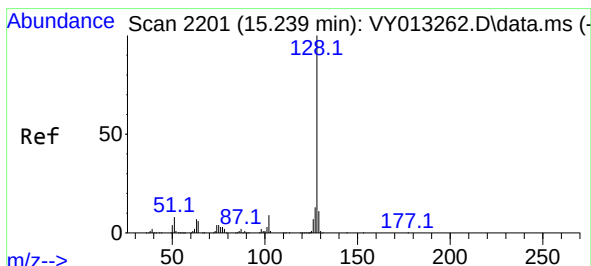
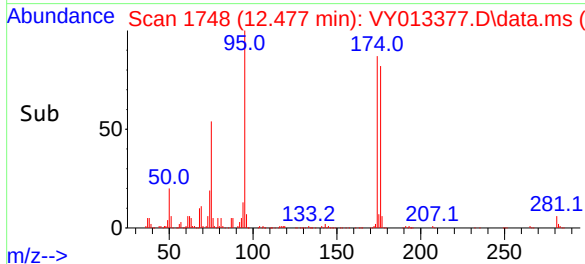
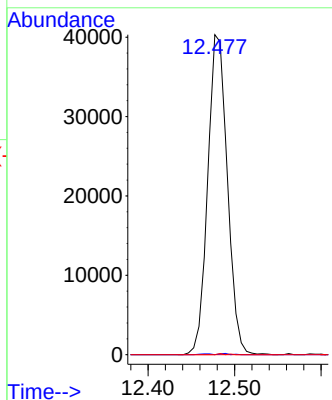
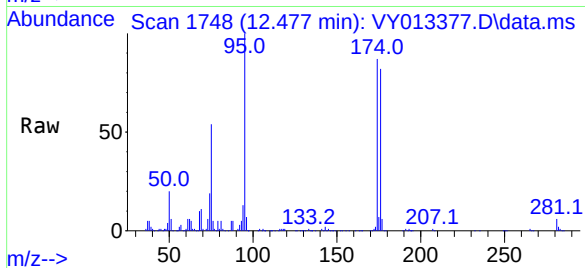




#81  
trans-1,4-Dichloro-2-butene  
Concen: 164.195 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.104 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

Instrument :  
MSVOA\_Y  
ClientSampleId :  
SB-14-8.0-8.5

Tgt Ion: 75 Resp: 63475  
Ion Ratio Lower Upper  
75 100  
53 0.2 73.4 110.0#  
89 0.1 36.6 55.0#



#95  
Naphthalene  
Concen: 3.211 ug/l  
RT: 15.239 min Scan# 2201  
Delta R.T. -0.000 min  
Lab File: VY013377.D  
Acq: 20 Apr 2023 18:44

Tgt Ion:128 Resp: 19  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 0.0 8.6 13.0#

