

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092122\  
 Data File : VY010597.D  
 Acq On : 21 Sep 2022 14:02  
 Operator : KP/MD  
 Sample : N4701-01  
 Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Sep 21 15:36:09 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091922S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 20 01:02:44 2022  
 Response via : Initial Calibration

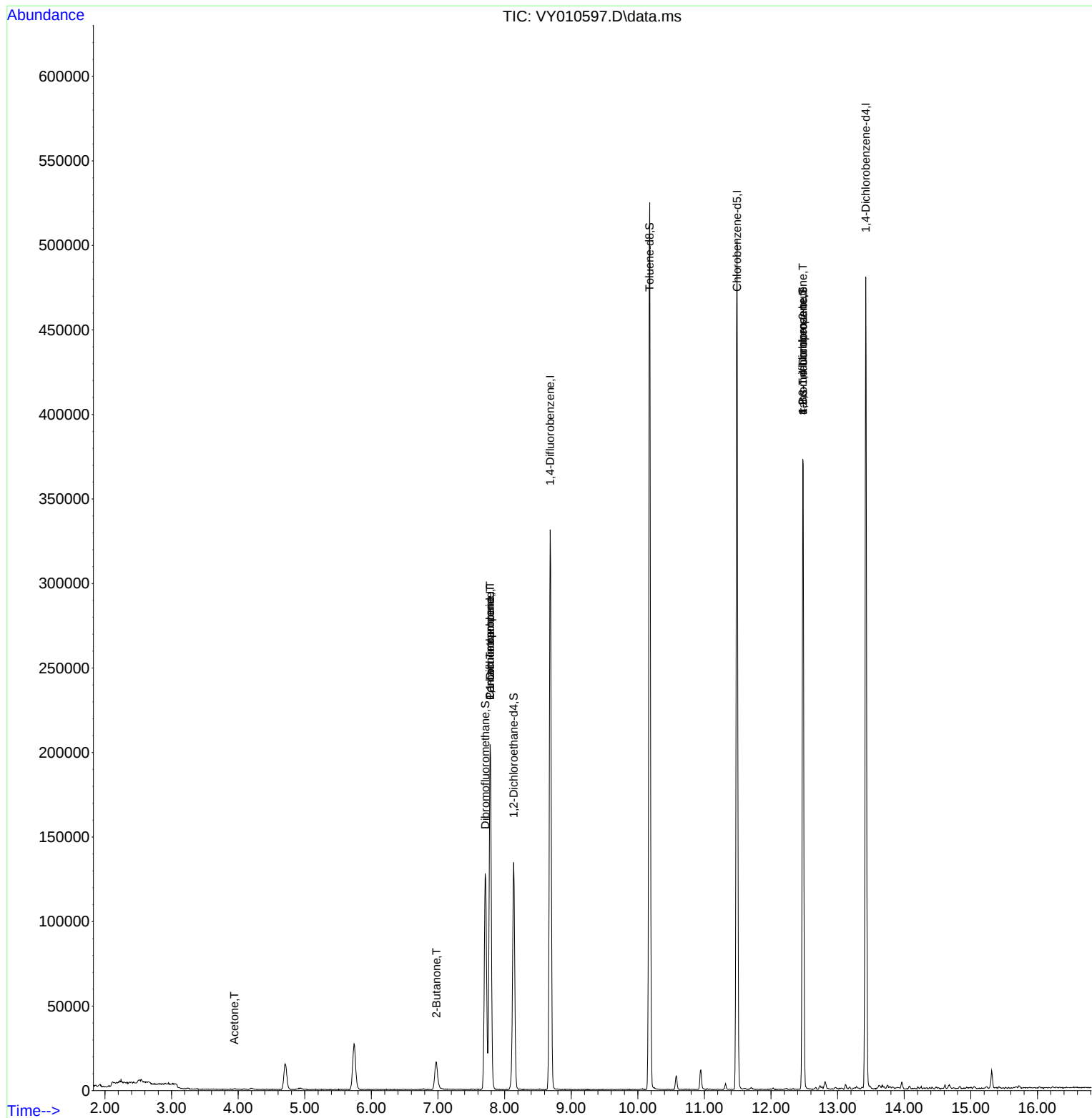
| Compound                      | R.T.   | QIon  | Response | Conc         | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|--------------|------------|----------|
| -----                         |        |       |          |              |            |          |
| Internal Standards            |        |       |          |              |            |          |
| 1) Pentafluorobenzene         | 7.783  | 168   | 160795   | 50.000       | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.685  | 114   | 287276   | 50.000       | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.489 | 117   | 271005   | 50.000       | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.422 | 152   | 120933   | 50.000       | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |              |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.136  | 65    | 101074   | 65.719       | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery     | = 131.440% |          |
| 35) Dibromofluoromethane      | 7.710  | 113   | 91274    | 49.784       | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery     | = 99.560%  |          |
| 50) Toluene-d8                | 10.179 | 98    | 344568   | 50.799       | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 49 - 140 | Recovery     | = 101.600% |          |
| 62) 4-Bromofluorobenzene      | 12.477 | 95    | 112324   | 44.363       | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 25 - 144 | Recovery     | = 88.720%  |          |
| Target Compounds              |        |       |          |              |            |          |
|                               |        |       |          |              |            | Qvalue   |
| 2) Dichlorodifluoromethane    | 1.900  | 85    | 245      | Below Cal    |            | 84       |
| 3) Chloromethane              | 2.113  | 50    | 609      | Below Cal    |            | 92       |
| 4) Vinyl Chloride             | 2.296  | 62    | 31       | Below Cal    | #          | 43       |
| 5) Bromomethane               | 2.656  | 94    | 324      | Below Cal    | #          | 29       |
| 11) Tert butyl alcohol        | 4.936  | 59    | 1245     | Below Cal    | #          | 77       |
| 16) Acetone                   | 3.942  | 43    | 803      | 2.560 ug/l   | #          | 88       |
| 17) Carbon Disulfide          | 4.204  | 76    | 105      | Below Cal    | #          | 75       |
| 18) Methyl Acetate            | 4.472  | 43    | 193      | Below Cal    | #          | 56       |
| 20) Methylene Chloride        | 4.710  | 84    | 12041    | Below Cal    |            | 83       |
| 25) 2-Butanone                | 6.978  | 43    | 1010     | 2.059 ug/l   |            | 92       |
| 31) Cyclohexane               | 7.783  | 56    | 3459     | Below Cal    | #          | 9        |
| 36) 1,1-Dichloropropene       | 7.783  | 75    | 12412    | 6.076 ug/l   | #          | 50       |
| 38) Carbon Tetrachloride      | 7.783  | 117   | 15709    | 6.688 ug/l   | #          | 14       |
| 76) 1,2,3-Trichloropropane    | 12.477 | 75    | 57904    | 50.167 ug/l  | #          | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.477 | 75    | 57904    | 111.543 ug/l | #          | 7        |
| -----                         |        |       |          |              |            |          |

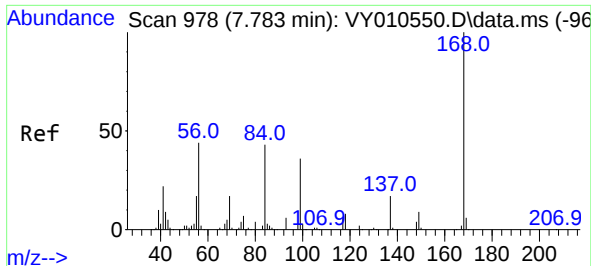
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY092122\  
Data File : VY010597.D  
Acq On : 21 Sep 2022 14:02  
Operator : KP/MD  
Sample : N4701-01  
Misc : 5.08g/5.0mL/MSVOA\_Y/SOIL  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :

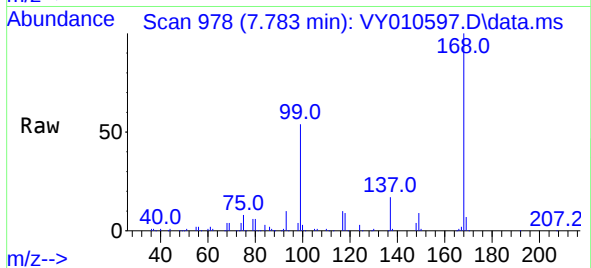
Quant Time: Sep 21 15:36:09 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y091922S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 20 01:02:44 2022  
Response via : Initial Calibration



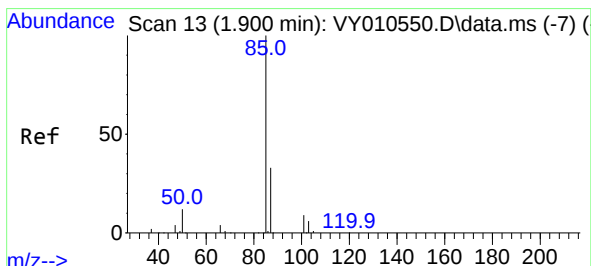
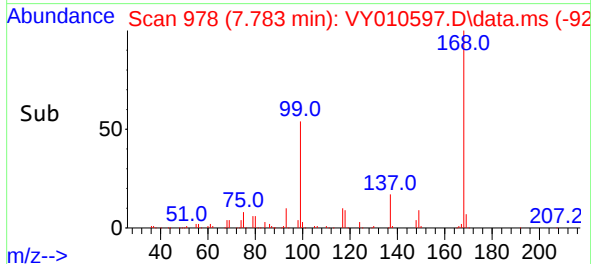
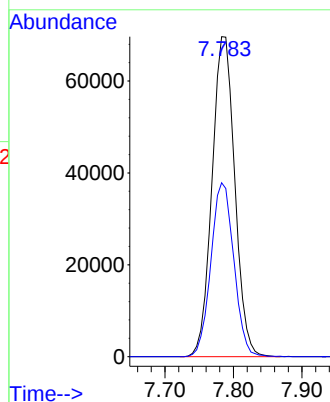


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

Instrument :  
MSVOA\_Y  
ClientSampleId :

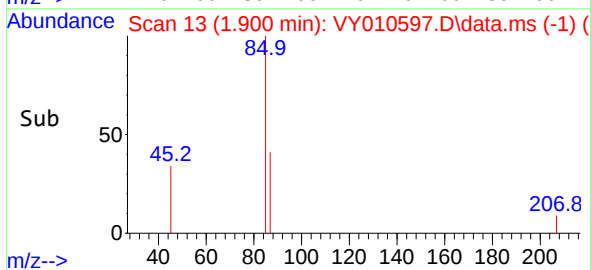
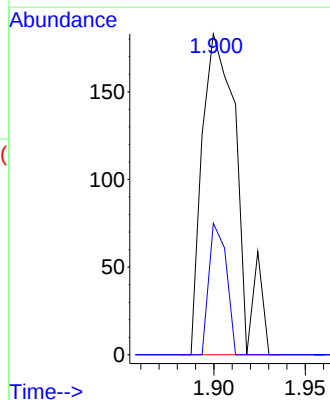
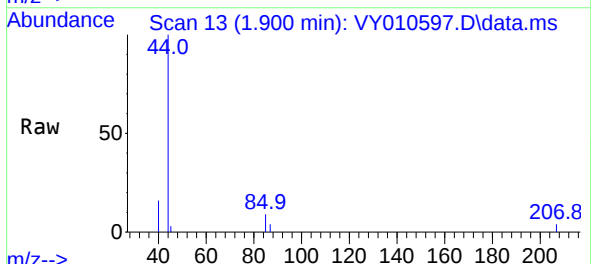


Tgt Ion:168 Resp: 160795  
Ion Ratio Lower Upper  
168 100  
99 54.4 46.9 70.3



#2  
Dichlorodifluoromethane  
Concen: Below Cal  
RT: 1.900 min Scan# 13  
Delta R.T. -0.000 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

Tgt Ion: 85 Resp: 245  
Ion Ratio Lower Upper  
85 100  
87 41.0 16.1 48.2

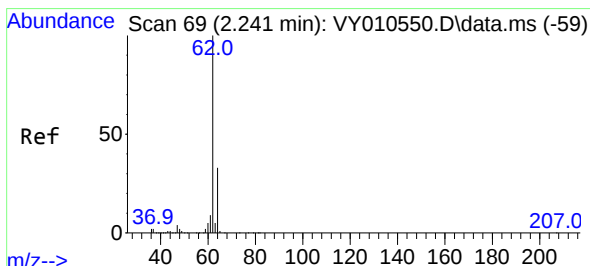
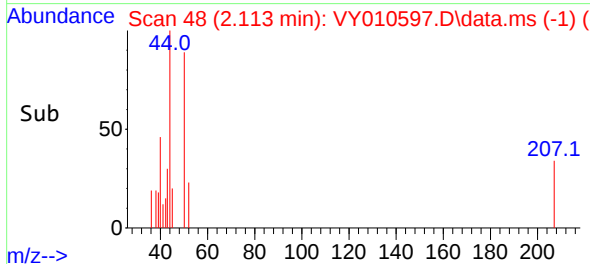
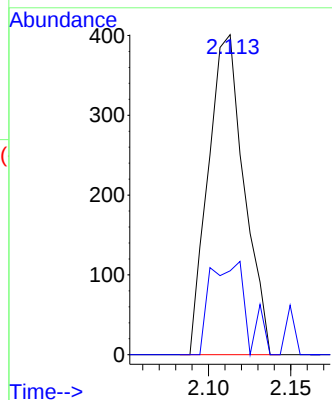
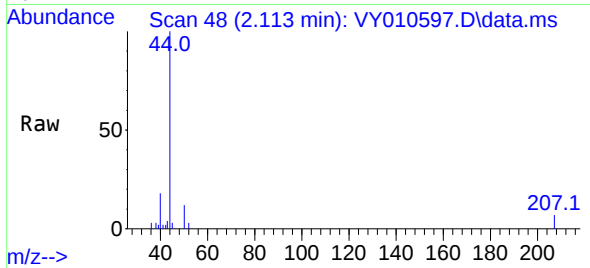




#3  
Chloromethane  
Concen: Below Cal  
RT: 2.113 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

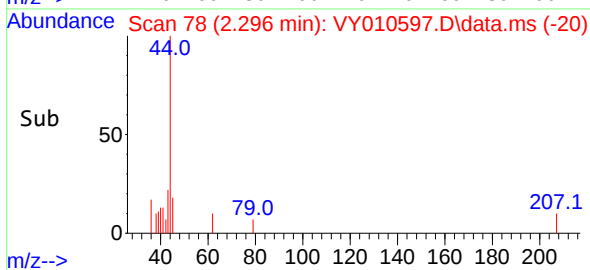
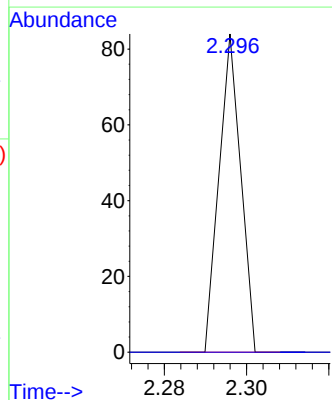
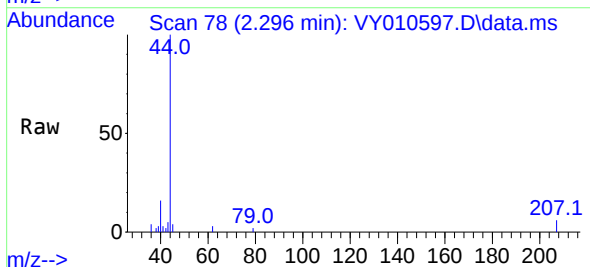
Instrument :  
MSVOA\_Y  
ClientSampleId :

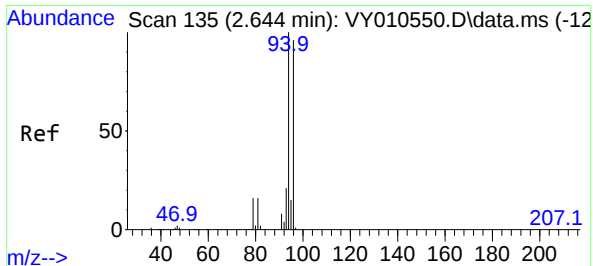
Tgt Ion: 50 Resp: 609  
Ion Ratio Lower Upper  
50 100  
52 26.2 24.6 37.0



#4  
Vinyl Chloride  
Concen: Below Cal  
RT: 2.296 min Scan# 78  
Delta R.T. 0.055 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

Tgt Ion: 62 Resp: 31  
Ion Ratio Lower Upper  
62 100  
64 0.0 25.0 37.6#

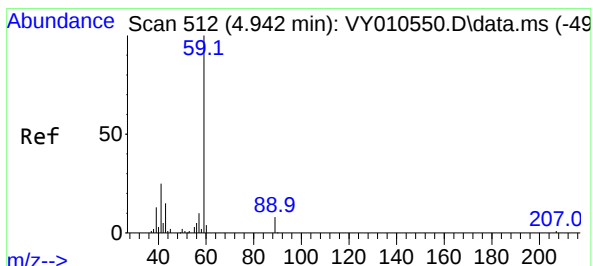
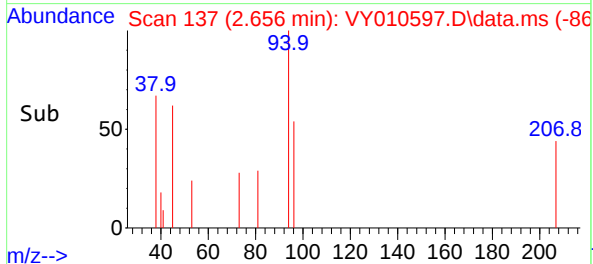
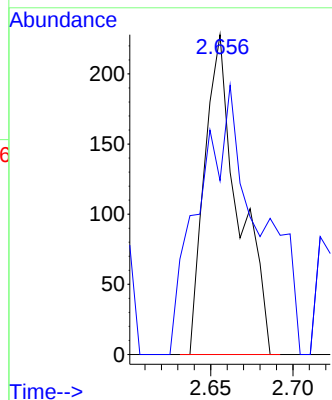
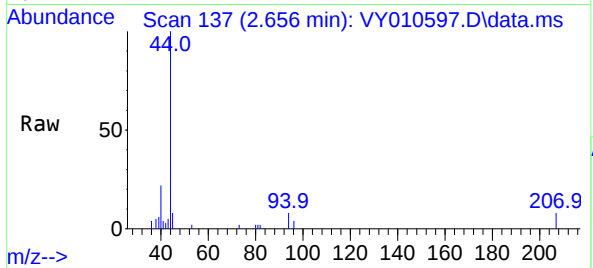




#5  
Bromomethane  
Concen: Below Cal  
RT: 2.656 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

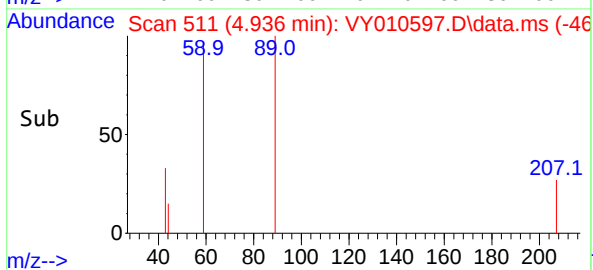
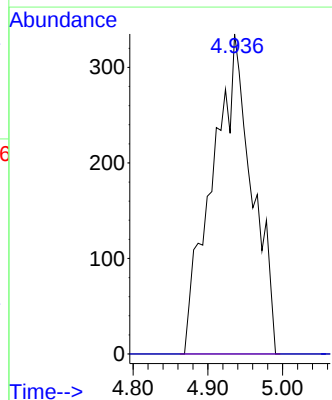
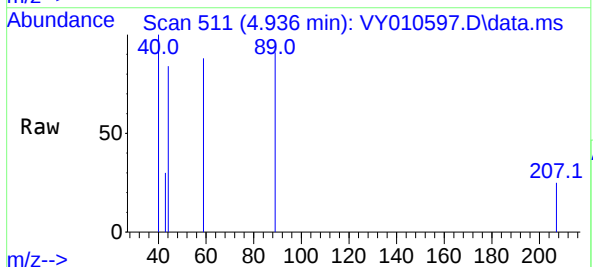
Instrument :  
MSVOA\_Y  
ClientSampleId :

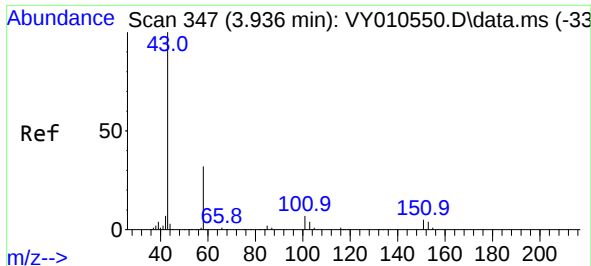
Tgt Ion: 94 Resp: 324  
Ion Ratio Lower Upper  
94 100  
96 24.6 73.5 110.3#



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.936 min Scan# 511  
Delta R.T. -0.006 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

Tgt Ion: 59 Resp: 1245  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.4 9.6#

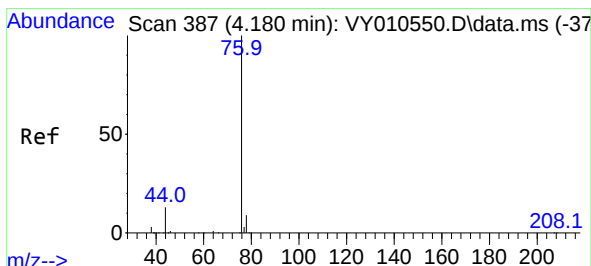
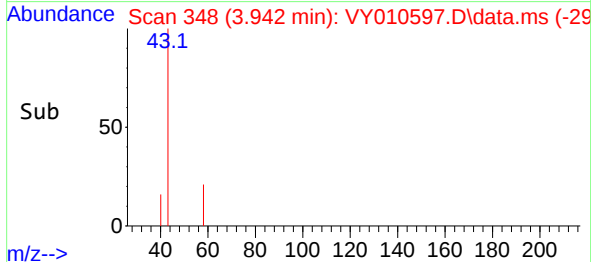
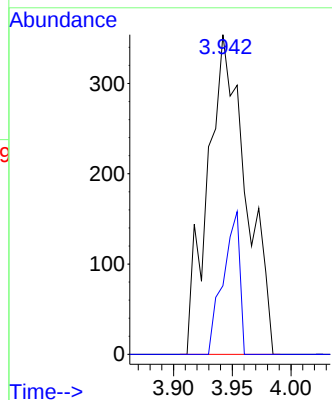
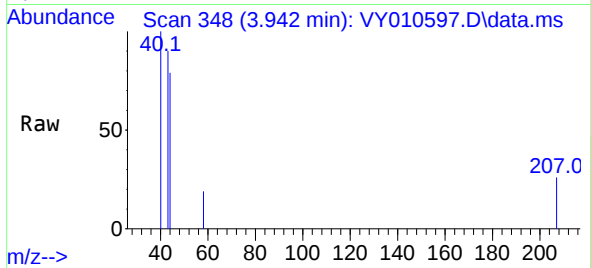




#16  
Acetone  
Concen: 2.560 ug/l  
RT: 3.942 min Scan# 34  
Delta R.T. 0.006 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

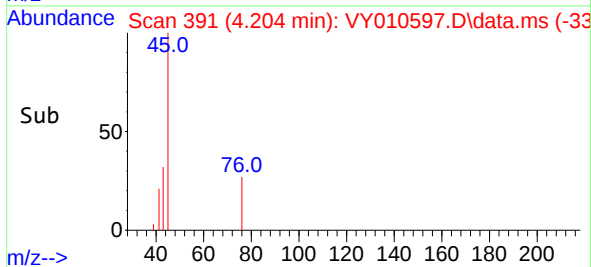
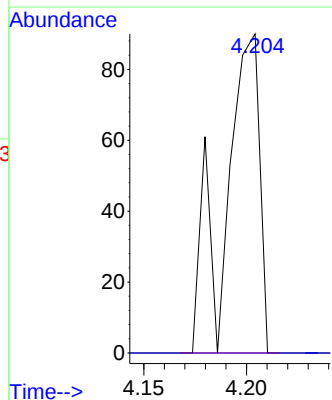
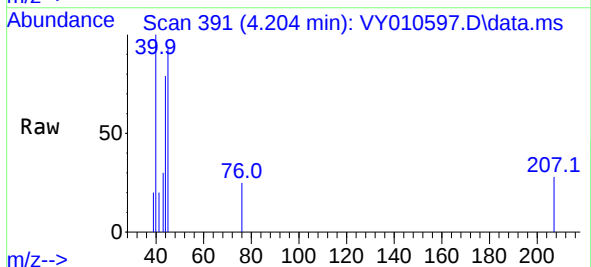
Instrument :  
MSVOA\_Y  
ClientSampleId :

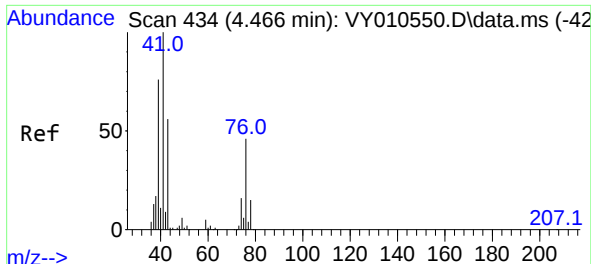
Tgt Ion: 43 Resp: 803  
Ion Ratio Lower Upper  
43 100  
58 21.5 22.0 33.0#



#17  
Carbon Disulfide  
Concen: Below Cal  
RT: 4.204 min Scan# 391  
Delta R.T. 0.024 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

Tgt Ion: 76 Resp: 105  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#





#18

Methyl Acetate

Concen: Below Cal

RT: 4.472 min Scan# 41

Delta R.T. 0.006 min

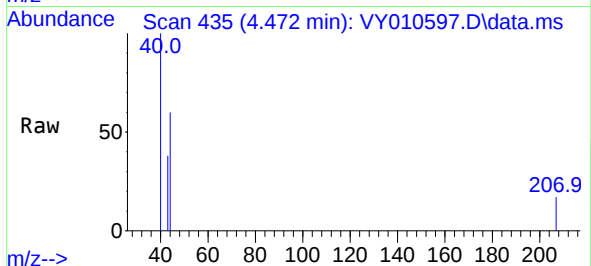
Lab File: VY010597.D

Acq: 21 Sep 2022 14:02

Instrument :

MSVOA\_Y

ClientSampleId :

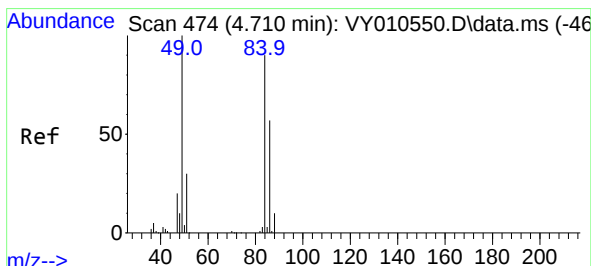
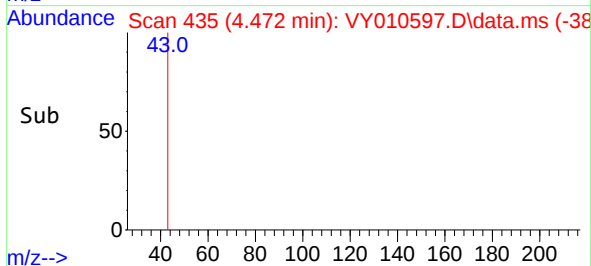
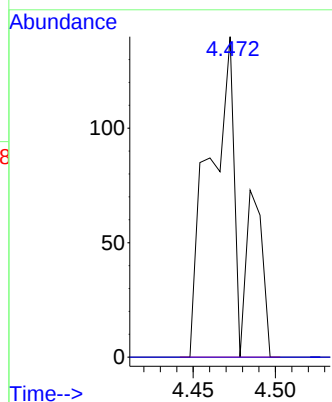


Tgt Ion: 43 Resp: 193

Ion Ratio Lower Upper

43 100

74 0.0 16.6 24.8#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.710 min Scan# 474

Delta R.T. 0.000 min

Lab File: VY010597.D

Acq: 21 Sep 2022 14:02

Tgt Ion: 84 Resp: 12041

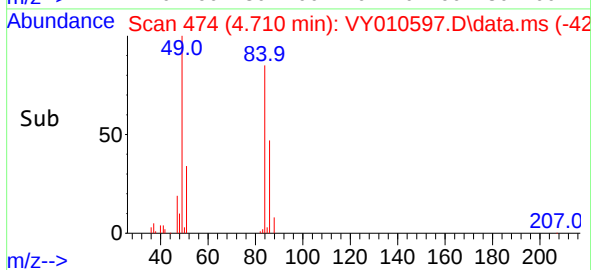
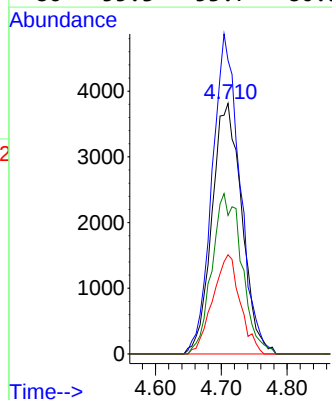
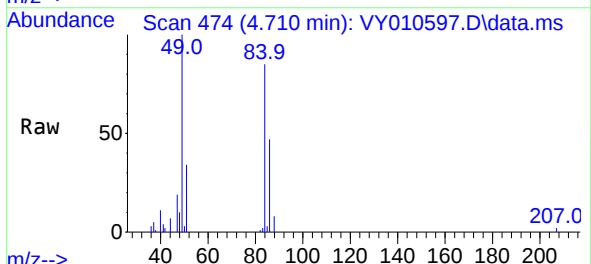
Ion Ratio Lower Upper

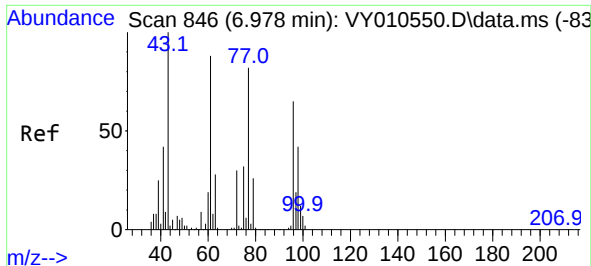
84 100

49 117.1 114.4 171.6

51 39.6 35.3 52.9

86 55.3 53.7 80.5

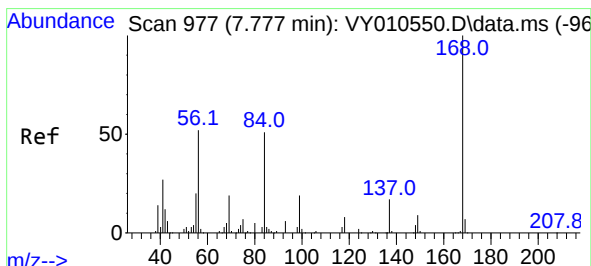
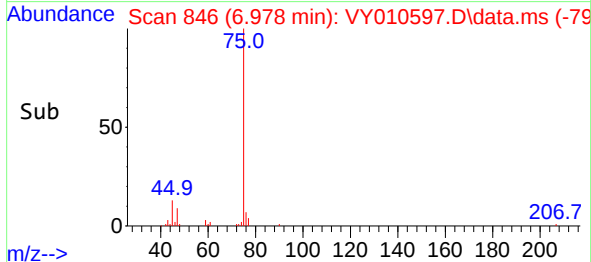
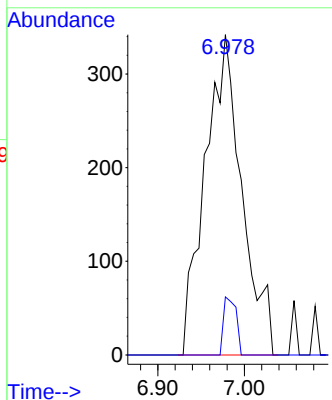
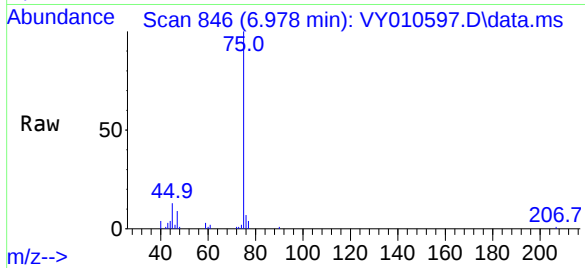




#25  
2-Butanone  
Concen: 2.059 ug/l  
RT: 6.978 min Scan# 846  
Delta R.T. 0.000 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

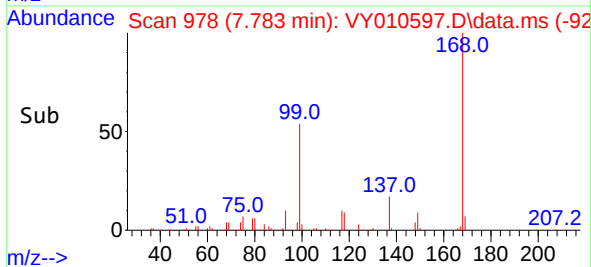
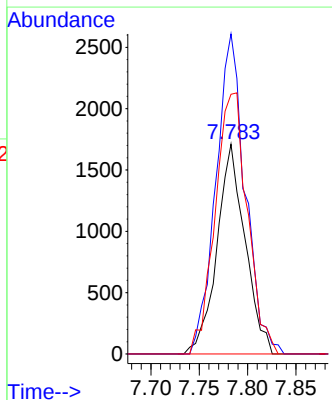
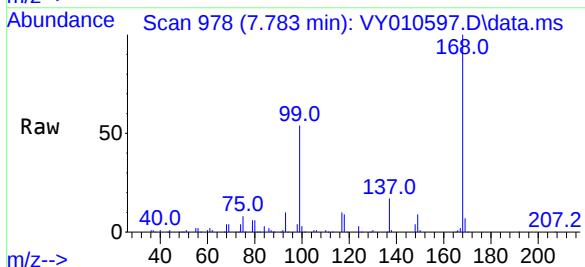
Instrument :  
MSVOA\_Y  
ClientSampleId :

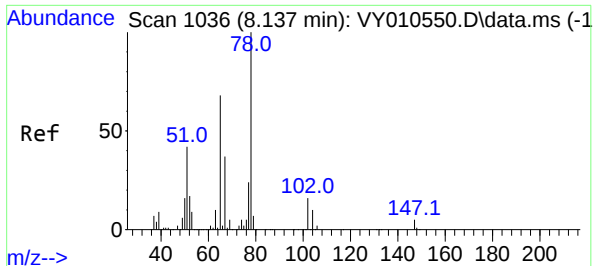
Tgt Ion: 43 Resp: 1010  
Ion Ratio Lower Upper  
43 100  
72 18.1 17.7 26.5



#31  
Cyclohexane  
Concen: Below Cal  
RT: 7.783 min Scan# 978  
Delta R.T. 0.006 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

Tgt Ion: 56 Resp: 3459  
Ion Ratio Lower Upper  
56 100  
69 152.6 26.7 40.1#  
84 123.8 67.2 100.8#





#33

1,2-Dichloroethane-d4

Concen: 65.719 ug/l

RT: 8.136 min Scan# 1036

Delta R.T. -0.001 min

Lab File: VY010597.D

Acq: 21 Sep 2022 14:02

Instrument :

MSVOA\_Y

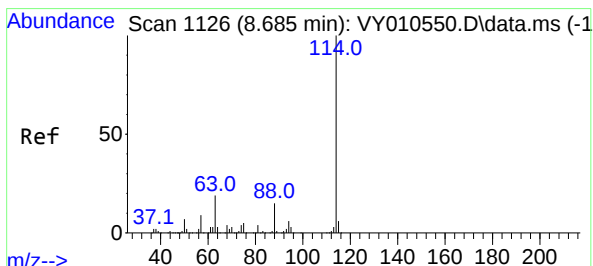
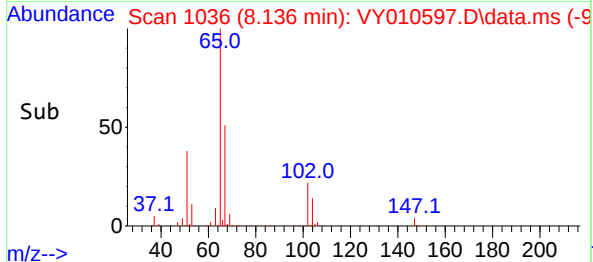
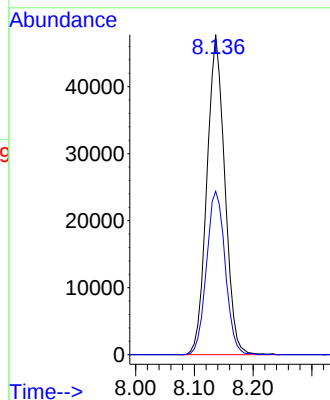
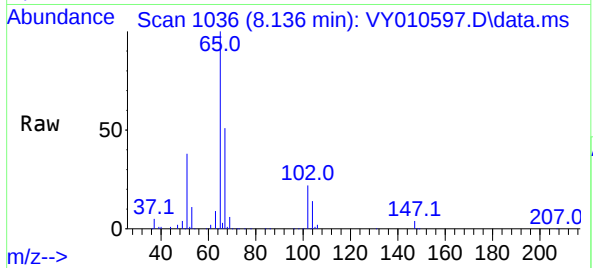
ClientSampleId :

Tgt Ion: 65 Resp: 101074

Ion Ratio Lower Upper

65 100

67 53.4 0.0 99.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.685 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VY010597.D

Acq: 21 Sep 2022 14:02

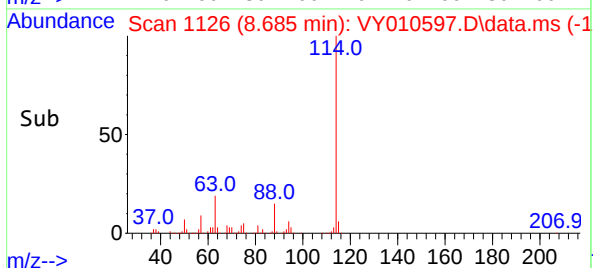
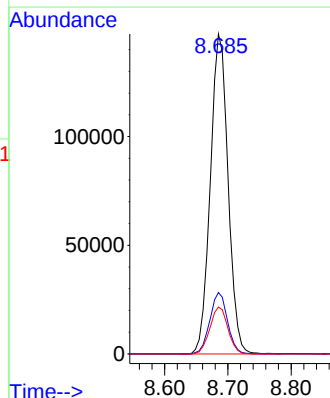
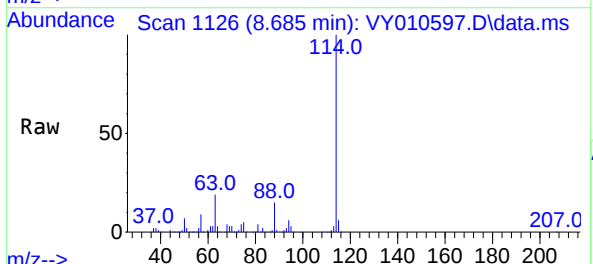
Tgt Ion:114 Resp: 287276

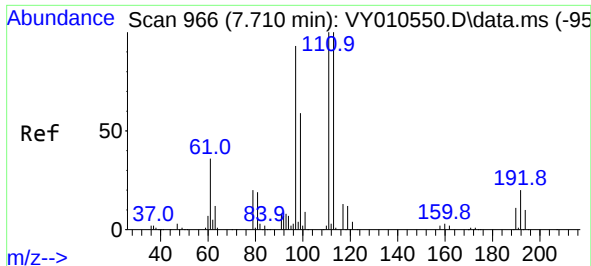
Ion Ratio Lower Upper

114 100

63 19.2 0.0 43.2

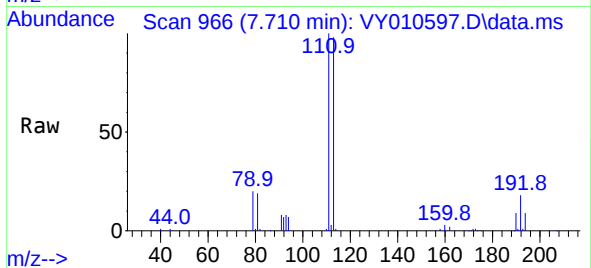
88 14.6 0.0 31.8



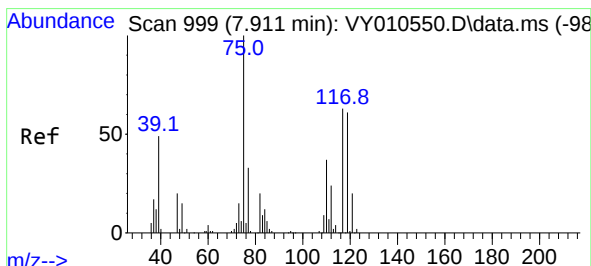
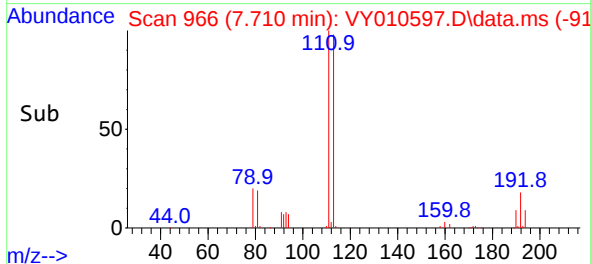
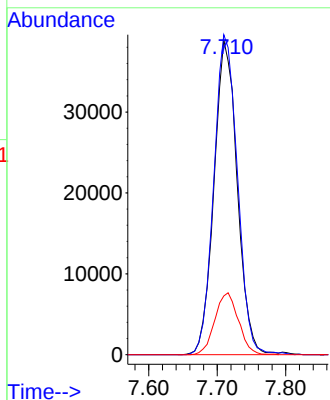


#35  
Dibromofluoromethane  
Concen: 49.784 ug/l  
RT: 7.710 min Scan# 912  
Delta R.T. -0.000 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

Instrument :  
MSVOA\_Y  
ClientSampleId :

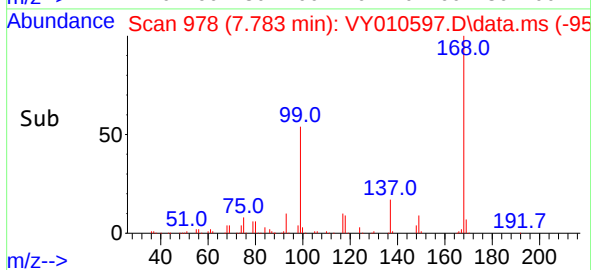
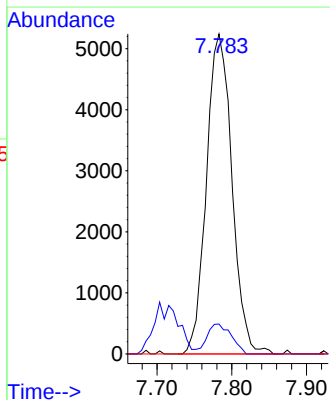
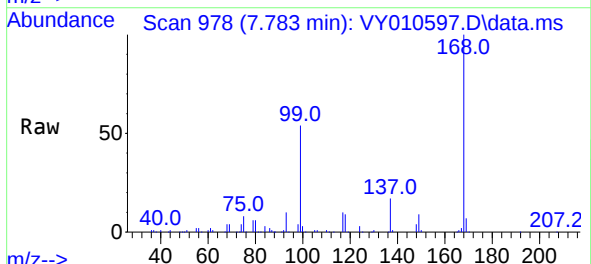


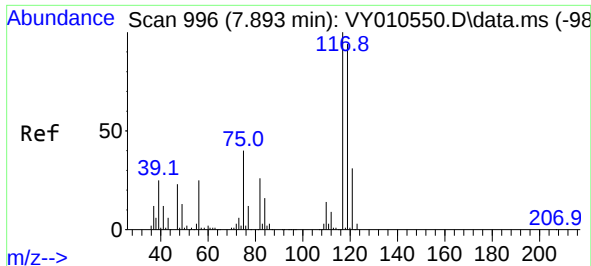
Tgt Ion:113 Resp: 91274  
Ion Ratio Lower Upper  
113 100  
111 103.6 82.6 124.0  
192 20.0 17.6 26.4



#36  
1,1-Dichloropropene  
Concen: 6.076 ug/l  
RT: 7.783 min Scan# 978  
Delta R.T. -0.128 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

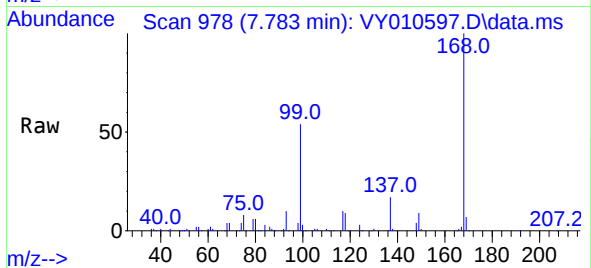
Tgt Ion: 75 Resp: 12412  
Ion Ratio Lower Upper  
75 100  
110 8.9 17.1 51.2#  
77 0.0 24.4 36.6#



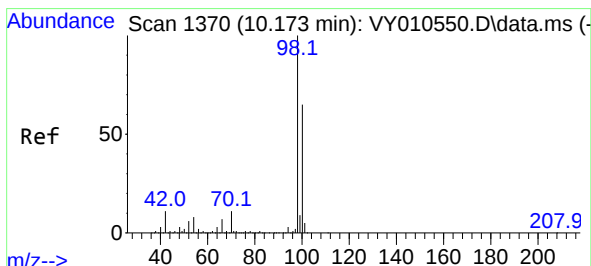
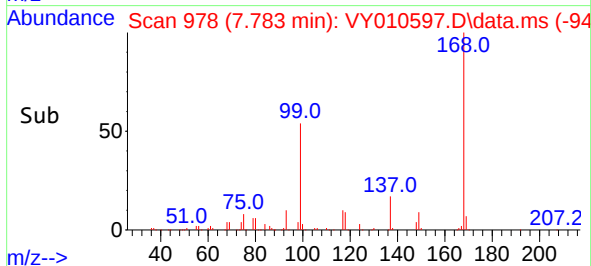
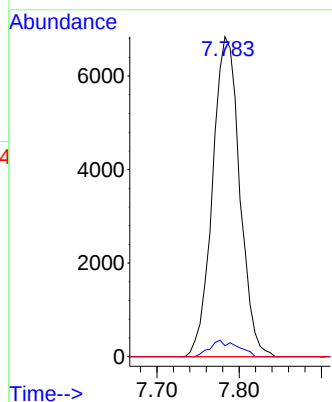


#38  
Carbon Tetrachloride  
Concen: 6.688 ug/l  
RT: 7.783 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

Instrument :  
MSVOA\_Y  
ClientSampleId :

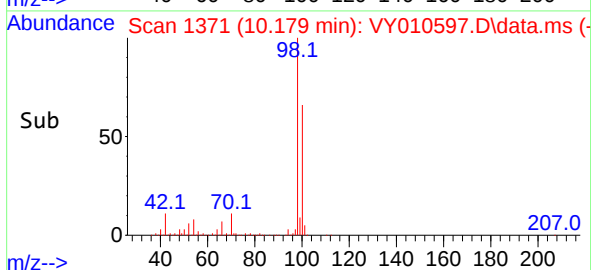
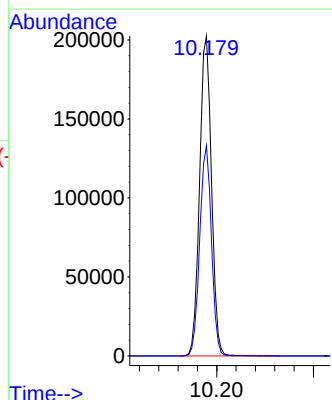
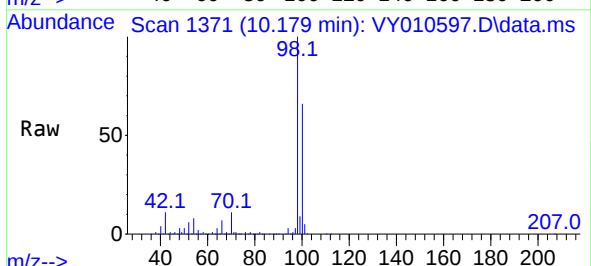


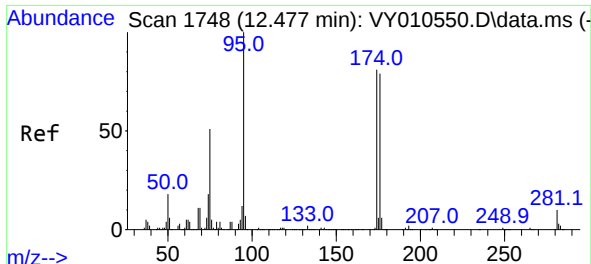
Tgt Ion:117 Resp: 15709  
Ion Ratio Lower Upper  
117 100  
119 3.4 77.9 116.9#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 50.799 ug/l  
RT: 10.179 min Scan# 1371  
Delta R.T. 0.006 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

Tgt Ion: 98 Resp: 344568  
Ion Ratio Lower Upper  
98 100  
100 65.0 50.2 75.2

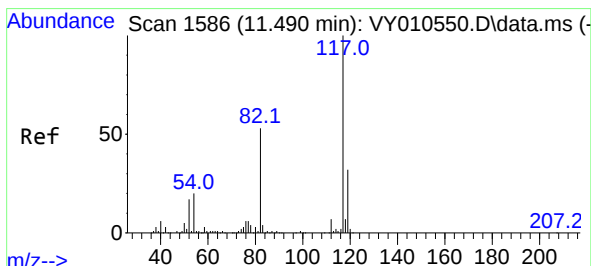
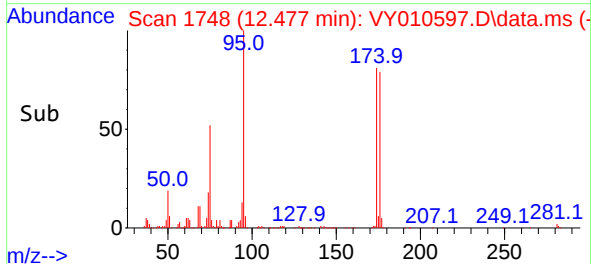
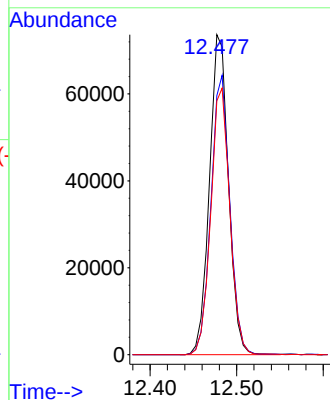
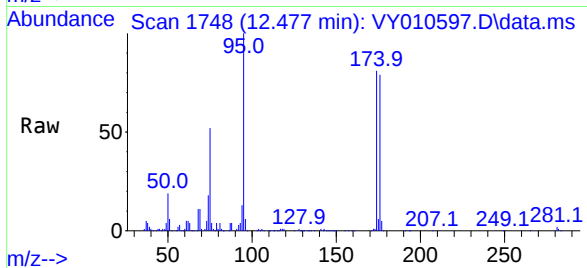




#62  
4-Bromofluorobenzene  
Concen: 44.363 ug/l  
RT: 12.477 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

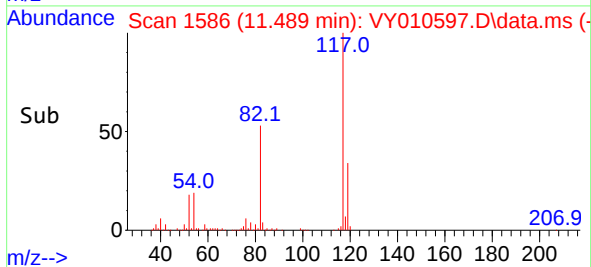
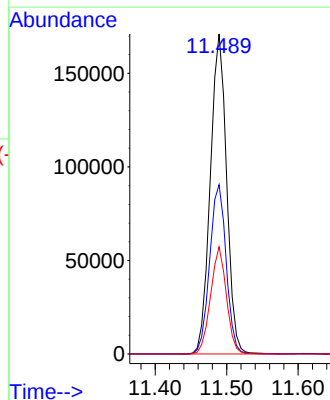
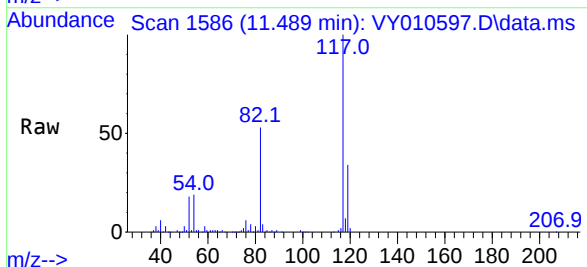
Instrument :  
MSVOA\_Y  
ClientSampleId :

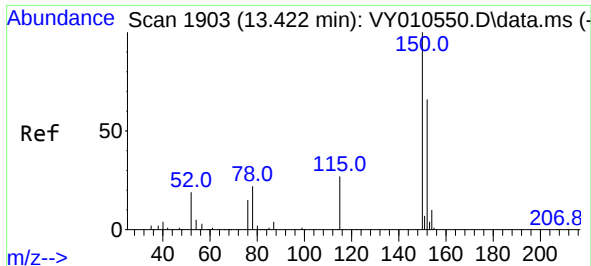
Tgt Ion: 95 Resp: 112324  
Ion Ratio Lower Upper  
95 100  
174 86.6 0.0 177.0  
176 83.5 0.0 175.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.489 min Scan# 1586  
Delta R.T. -0.001 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

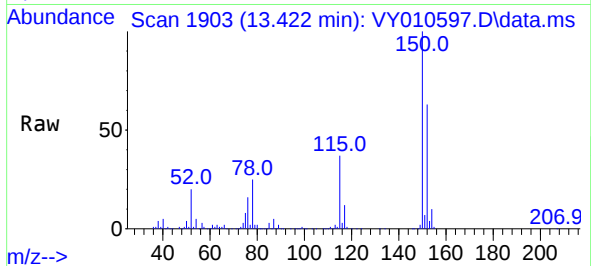
Tgt Ion: 117 Resp: 271005  
Ion Ratio Lower Upper  
117 100  
82 52.9 43.0 64.4  
119 33.5 25.4 38.0



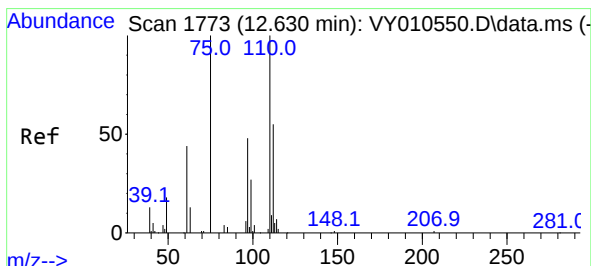
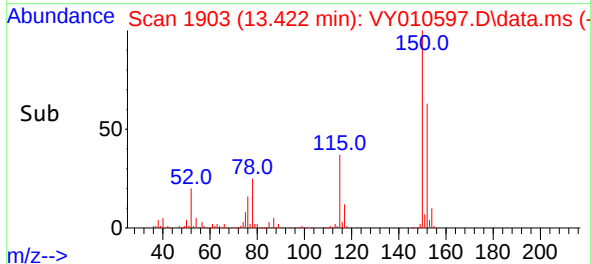
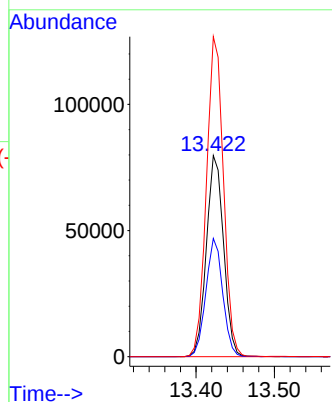


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.422 min Scan# 1903  
Delta R.T. 0.000 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

Instrument :  
MSVOA\_Y  
ClientSampleId :

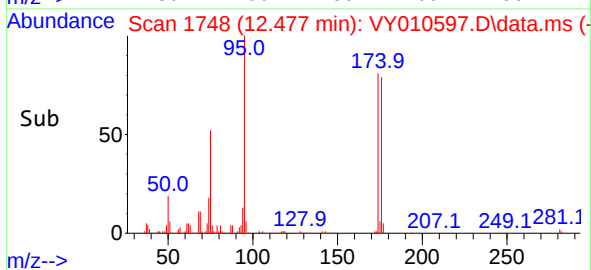
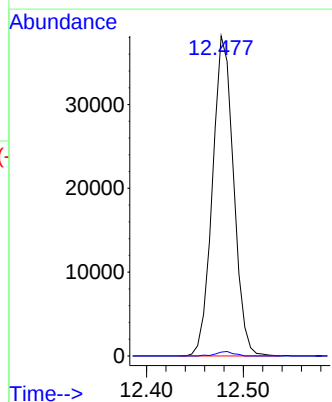
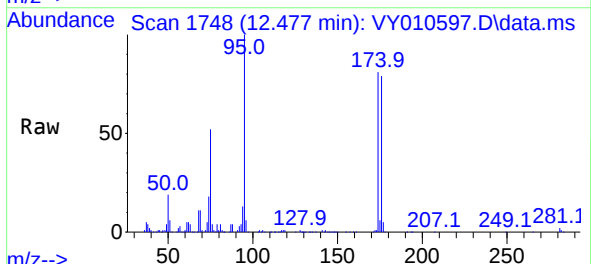


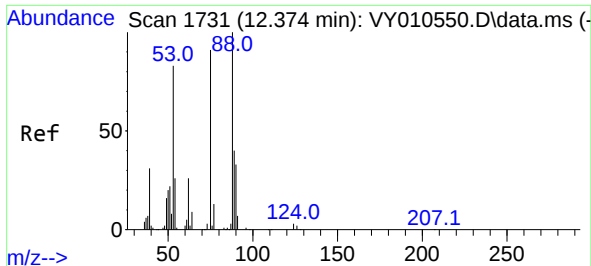
Tgt Ion:152 Resp: 120933  
Ion Ratio Lower Upper  
152 100  
115 57.8 28.2 84.7  
150 157.7 0.0 347.6



#76  
1,2,3-Trichloropropane  
Concen: 50.167 ug/l  
RT: 12.477 min Scan# 1748  
Delta R.T. -0.153 min  
Lab File: VY010597.D  
Acq: 21 Sep 2022 14:02

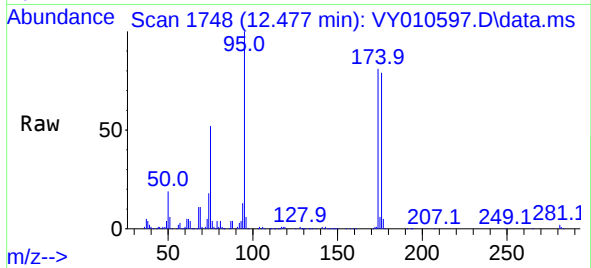
Tgt Ion: 75 Resp: 57904  
Ion Ratio Lower Upper  
75 100  
77 1.2 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 111.543 ug/l  
 RT: 12.477 min Scan# 11  
 Delta R.T. 0.103 min  
 Lab File: VY010597.D  
 Acq: 21 Sep 2022 14:02

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 75    | Resp: | 57904  |
| Ion      | Ratio | Lower | Upper  |
| 75       | 100   |       |        |
| 53       | 0.0   | 85.3  | 127.9# |
| 89       | 0.0   | 37.0  | 55.4#  |

