

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY100124\  
 Data File : VY019746.D  
 Acq On : 01 Oct 2024 17:11  
 Operator : SY/MD  
 Sample : P4225-01  
 Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 02 03:17:01 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090924S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Sep 09 16:00:30 2024  
 Response via : Initial Calibration

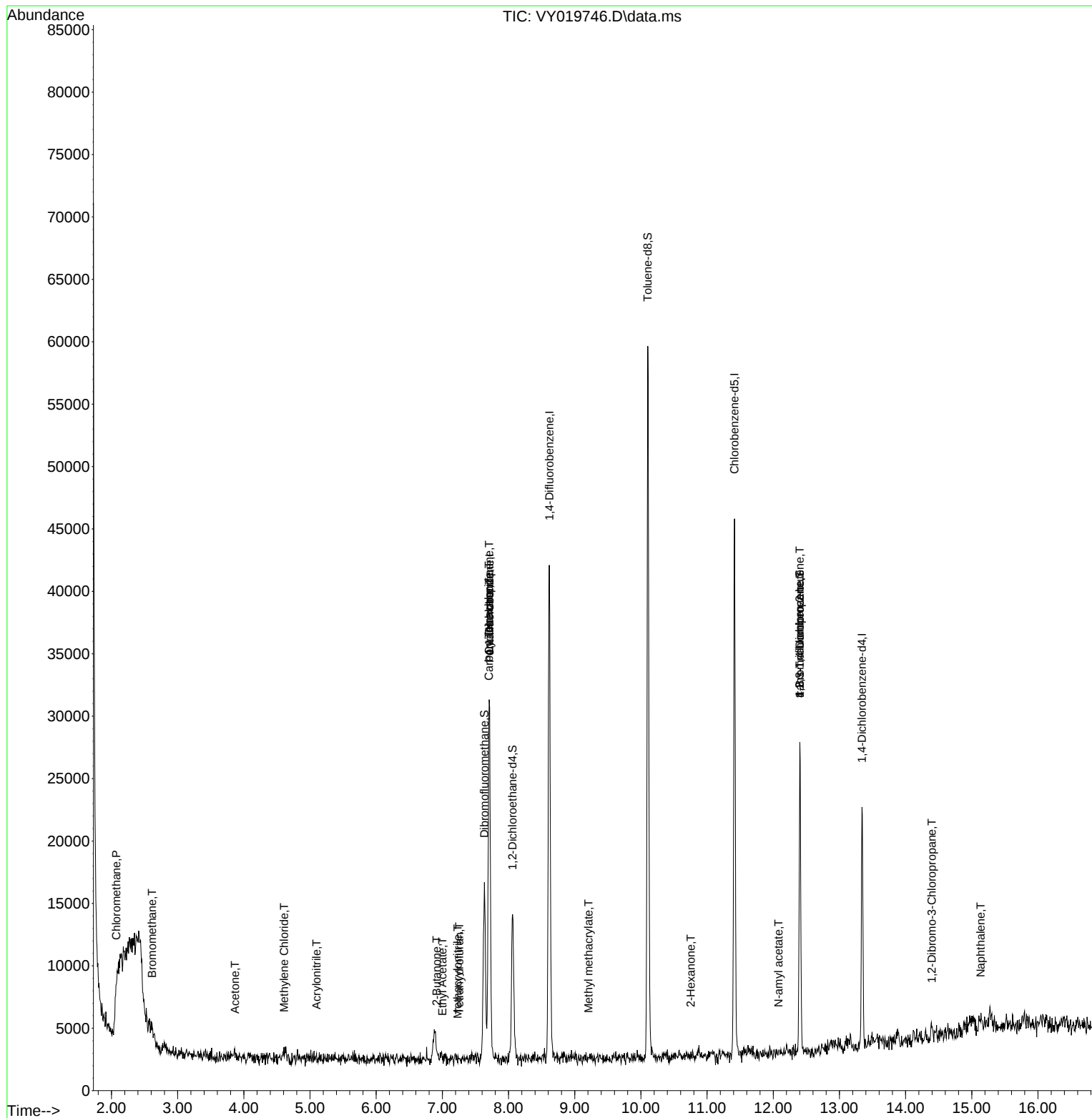
| Compound                      | R.T. QIon |       | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|--------|----------|
| -----                         |           |       |          |           |        |          |
| Internal Standards            |           |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.713     | 168   | 21234    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616     | 114   | 33971    | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.414    | 117   | 22290    | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.340    | 152   | 4311     | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |           |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.061     | 65    | 10336    | 52.568    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery  | =      | 105.140% |
| 35) Dibromofluoromethane      | 7.634     | 113   | 10137    | 52.630    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery  | =      | 105.260% |
| 50) Toluene-d8                | 10.103    | 98    | 37338    | 52.410    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 134 | Recovery  | =      | 104.820% |
| 62) 4-Bromofluorobenzene      | 12.402    | 95    | 8391     | 30.632    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000    | Range | 29 - 146 | Recovery  | =      | 61.260%  |
| Target Compounds              |           |       |          |           |        |          |
|                               |           |       |          |           | Qvalue |          |
| 3) Chloromethane              | 2.074     | 50    | 259      | 1.474     | ug/l # | 43       |
| 5) Bromomethane               | 2.611     | 94    | 289      | 2.477     | ug/l # | 75       |
| 13) Acrolein                  | 3.702     | 56    | 53       | Below Cal | #      | 26       |
| 15) Acrylonitrile             | 5.098     | 53    | 52       | 1.135     | ug/l # | 18       |
| 16) Acetone                   | 3.866     | 43    | 432      | 9.222     | ug/l # | 36       |
| 20) Methylene Chloride        | 4.610     | 84    | 483      | 2.261     | ug/l # | 68       |
| 25) 2-Butanone                | 6.915     | 43    | 241      | 3.617     | ug/l # | 41       |
| 29) Tetrahydrofuran           | 7.256     | 42    | 84       | 2.074     | ug/l # | 26       |
| 31) Cyclohexane               | 7.707     | 56    | 684      | 1.944     | ug/l # | 44       |
| 36) 1,1-Dichloropropene       | 7.707     | 75    | 1839     | 7.017     | ug/l # | 42       |
| 37) Ethyl Acetate             | 7.000     | 43    | 412      | 3.068     | ug/l # | 67       |
| 38) Carbon Tetrachloride      | 7.701     | 117   | 2266     | 7.667     | ug/l # | 16       |
| 41) Methacrylonitrile         | 7.232     | 41    | 159      | 2.031     | ug/l # | 24       |
| 48) Methyl methacrylate       | 9.207     | 41    | 175      | 1.314     | ug/l # | 32       |
| 59) 2-Hexanone                | 10.756    | 43    | 109      | 1.048     | ug/l # | 19       |
| 74) N-amyl acetate            | 12.078    | 43    | 142      | 1.669     | ug/l # | 7        |
| 76) 1,2,3-Trichloropropane    | 12.402    | 75    | 4212     | 104.240   | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.402    | 75    | 4212     | 200.111   | ug/l # | 16       |
| 92) 1,2-Dibromo-3-Chloropr... | 14.395    | 75    | 20       | 2.162     | ug/l # | 1        |
| 95) Naphthalene               | 15.133    | 128   | 570      | 3.891     | ug/l # | 85       |
| -----                         |           |       |          |           |        |          |

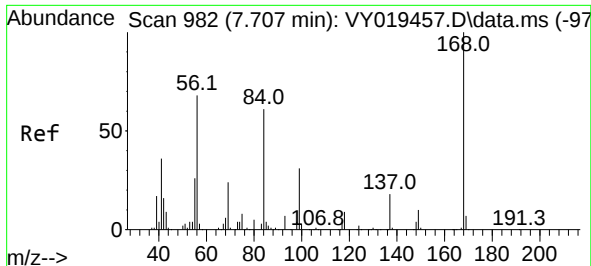
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY100124\  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y090924S.M  
Quant Title : SW846 8260  
QLast Update : Mon Sep 09 16:00:30 2024  
Response via : Initial Calibration

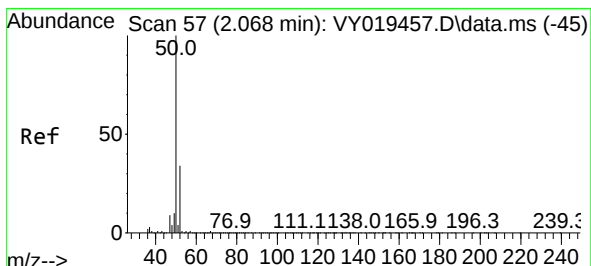
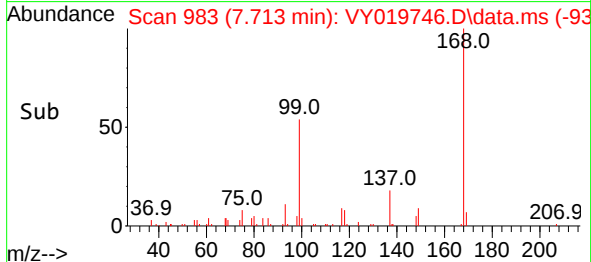
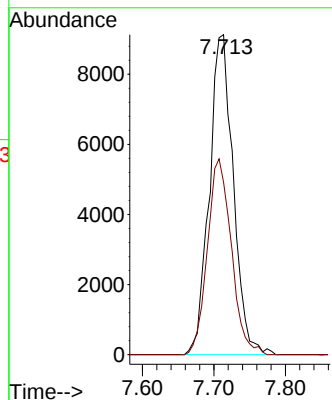
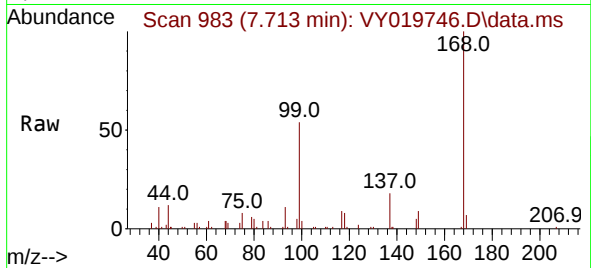




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

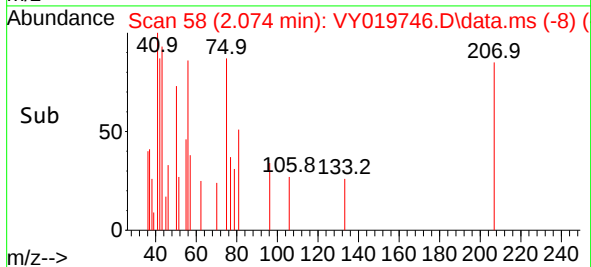
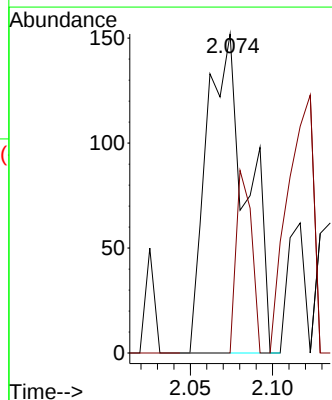
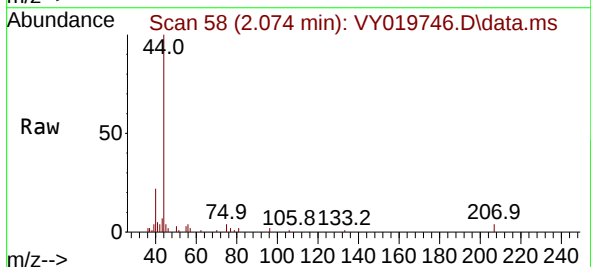
Instrument :  
MSVOA\_Y  
ClientSampleId :

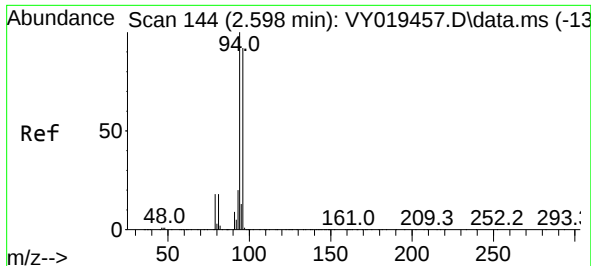
Tgt Ion:168 Resp: 21234  
Ion Ratio Lower Upper  
168 100  
99 53.9 39.1 58.7



#3  
Chloromethane  
Concen: 1.474 ug/l  
RT: 2.074 min Scan# 58  
Delta R.T. 0.006 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

Tgt Ion: 50 Resp: 259  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.6 38.4#

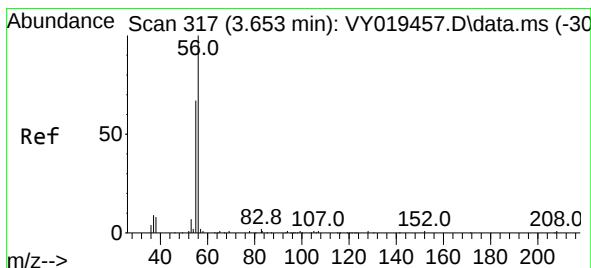
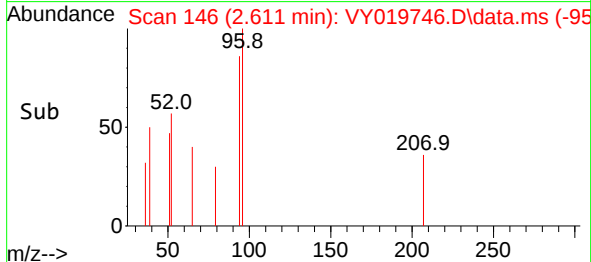
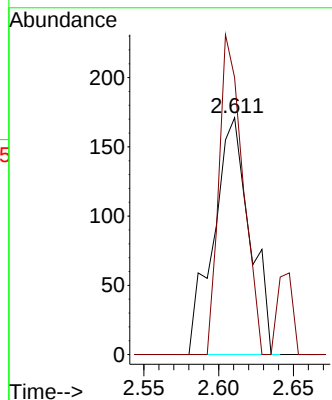
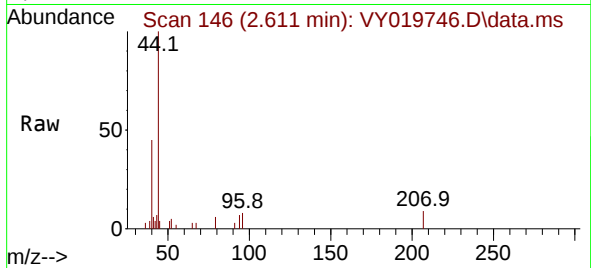




#5  
Bromomethane  
Concen: 2.477 ug/l  
RT: 2.611 min Scan# 14  
Delta R.T. 0.013 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

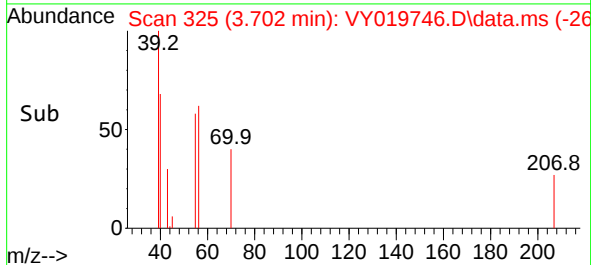
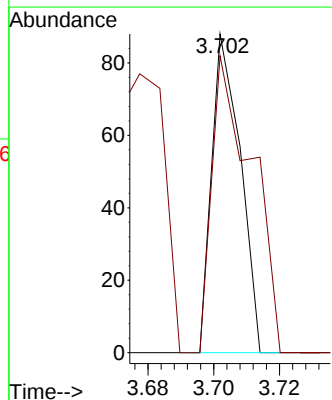
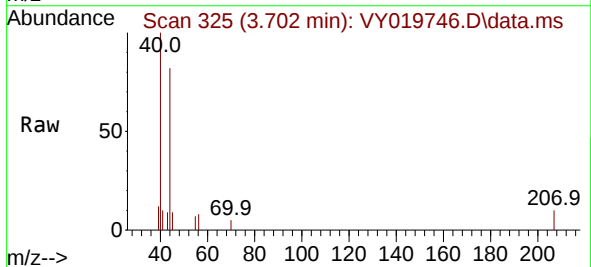
Instrument :  
MSVOA\_Y  
ClientSampleId :

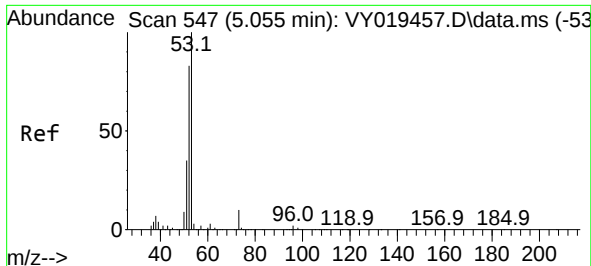
Tgt Ion: 94 Resp: 289  
Ion Ratio Lower Upper  
94 100  
96 117.0 74.1 111.1#



#13  
Acrolein  
Concen: Below Cal  
RT: 3.702 min Scan# 325  
Delta R.T. 0.049 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

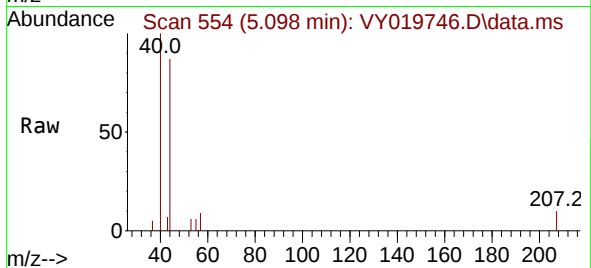
Tgt Ion: 56 Resp: 53  
Ion Ratio Lower Upper  
56 100  
55 130.2 55.7 83.5#



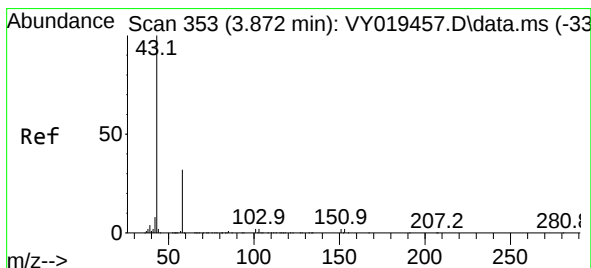
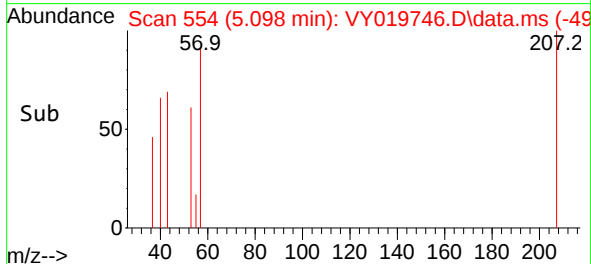
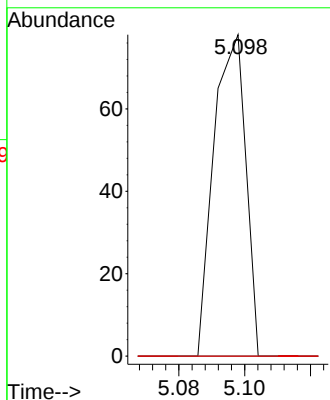


#15  
Acrylonitrile  
Concen: 1.135 ug/l  
RT: 5.098 min Scan# 51  
Delta R.T. 0.043 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

Instrument :  
MSVOA\_Y  
ClientSampleId :

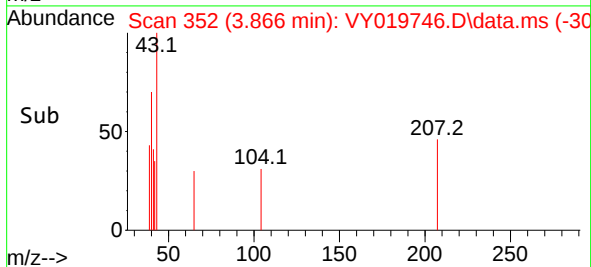
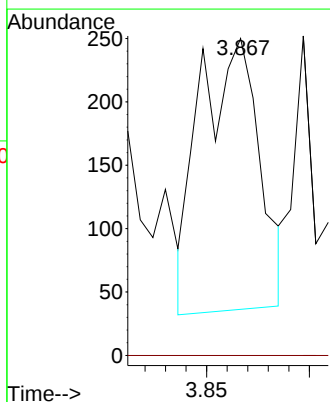
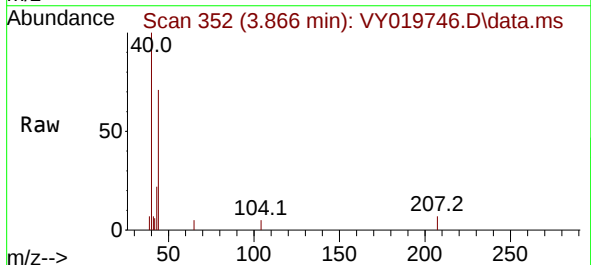


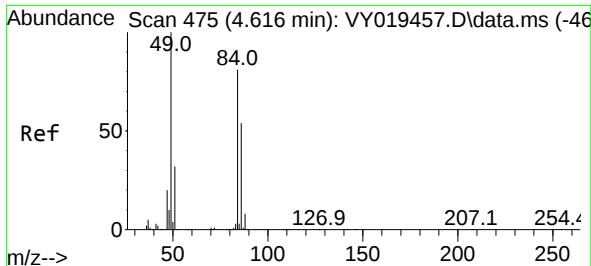
Tgt Ion: 53 Resp: 52  
Ion Ratio Lower Upper  
53 100  
52 0.0 64.7 97.1#  
51 0.0 28.4 42.6#



#16  
Acetone  
Concen: 9.222 ug/l  
RT: 3.866 min Scan# 352  
Delta R.T. -0.006 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

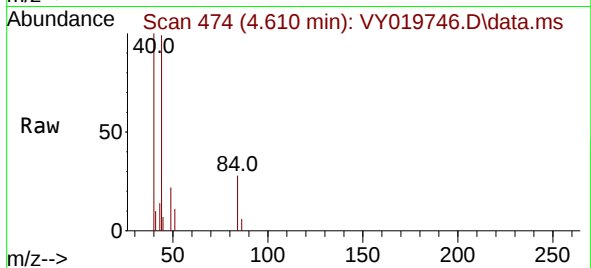
Tgt Ion: 43 Resp: 432  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.7 47.5#



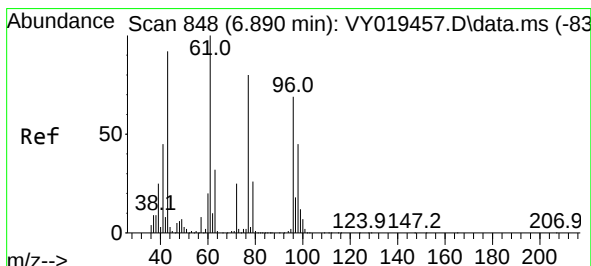
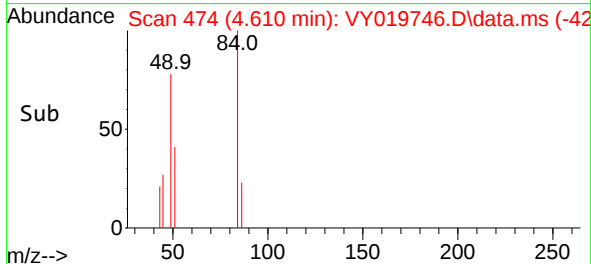
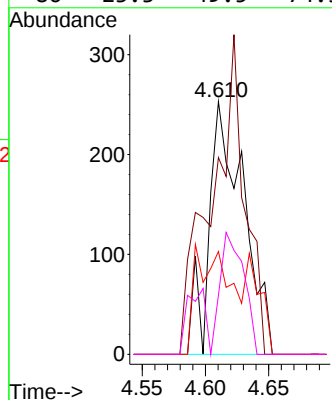


#20  
Methylene Chloride  
Concen: 2.261 ug/l  
RT: 4.610 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

Instrument :  
MSVOA\_Y  
ClientSampleId :

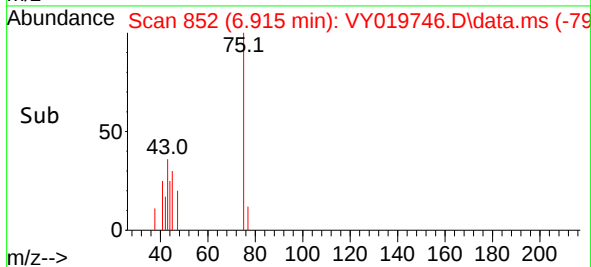
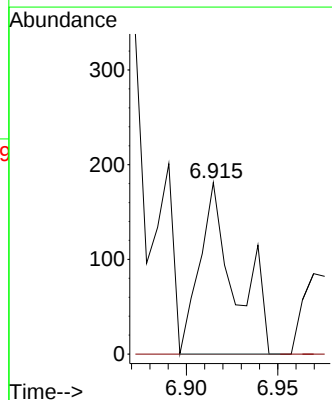
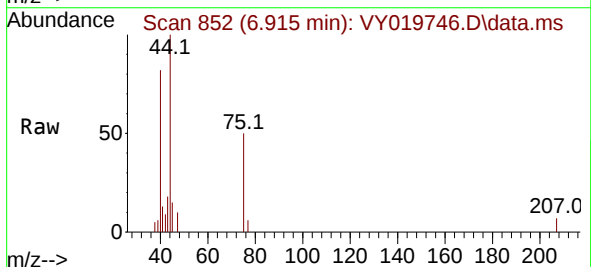


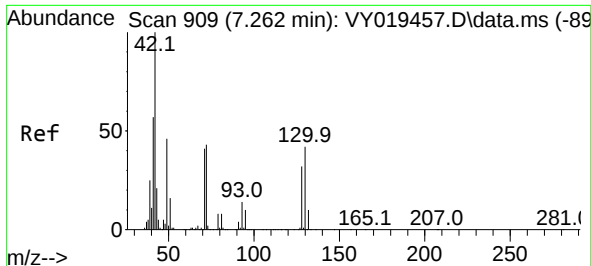
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 483    |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 77.9  | 84.4  | 126.6# |
| 51       | 40.7  | 26.0  | 39.0#  |
| 86       | 23.3  | 49.5  | 74.3#  |



#25  
2-Butanone  
Concen: 3.617 ug/l  
RT: 6.915 min Scan# 852  
Delta R.T. 0.025 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 241   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 0.0   | 27.3  | 40.9# |





#29

Tetrahydrofuran

Concen: 2.074 ug/l

RT: 7.256 min Scan# 909

Delta R.T. -0.006 min

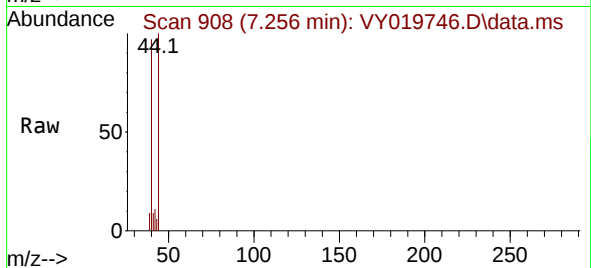
Lab File: VY019746.D

Acq: 01 Oct 2024 17:11

Instrument :

MSVOA\_Y

ClientSampleId :



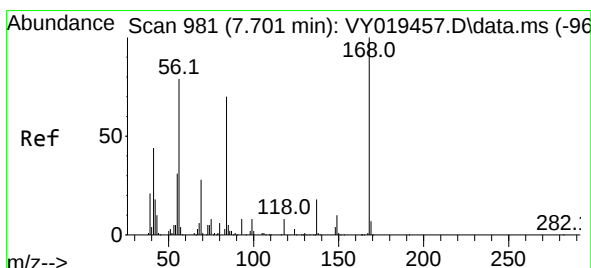
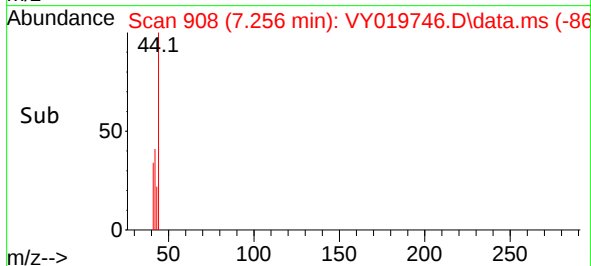
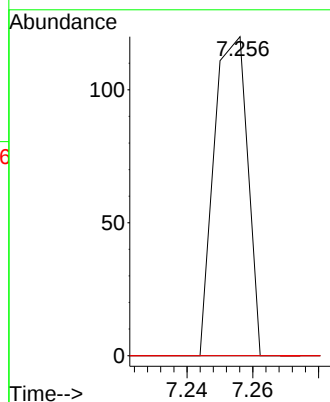
Tgt Ion: 42 Resp: 84

Ion Ratio Lower Upper

42 100

72 0.0 43.0 64.4#

71 0.0 40.8 61.2#



#31

Cyclohexane

Concen: 1.944 ug/l

RT: 7.707 min Scan# 982

Delta R.T. 0.006 min

Lab File: VY019746.D

Acq: 01 Oct 2024 17:11

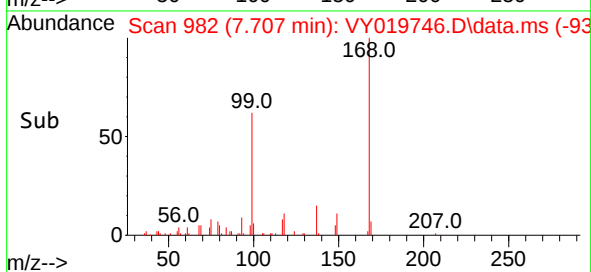
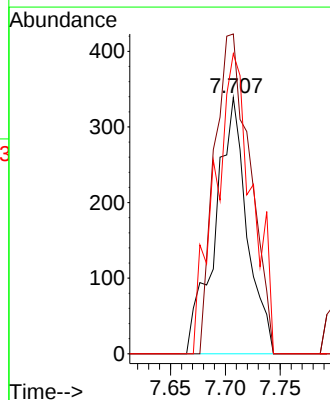
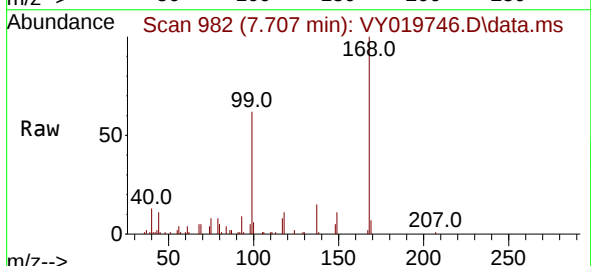
Tgt Ion: 56 Resp: 684

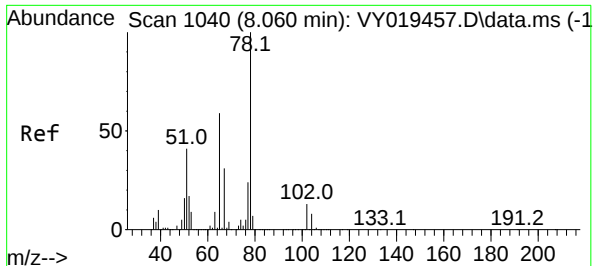
Ion Ratio Lower Upper

56 100

69 124.8 28.7 43.1#

84 117.1 77.7 116.5#





#33

1,2-Dichloroethane-d4

Concen: 52.568 ug/l

RT: 8.061 min Scan# 1040

Delta R.T. 0.000 min

Lab File: VY019746.D

Acq: 01 Oct 2024 17:11

Instrument :

MSVOA\_Y

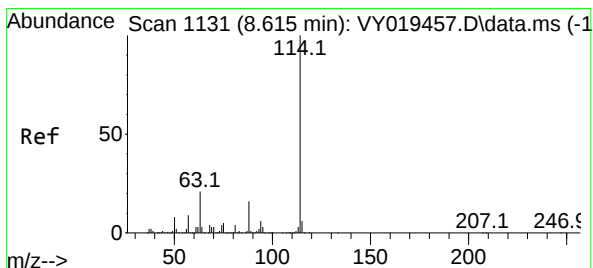
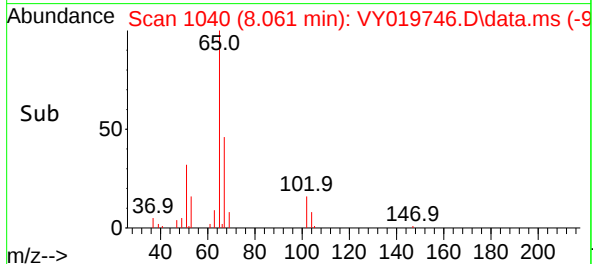
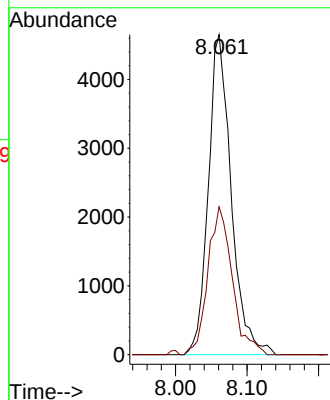
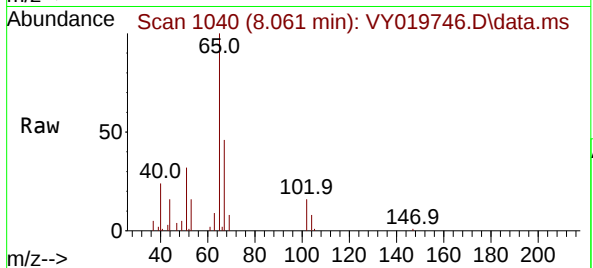
ClientSampleId :

Tgt Ion: 65 Resp: 10336

Ion Ratio Lower Upper

65 100

67 49.2 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY019746.D

Acq: 01 Oct 2024 17:11

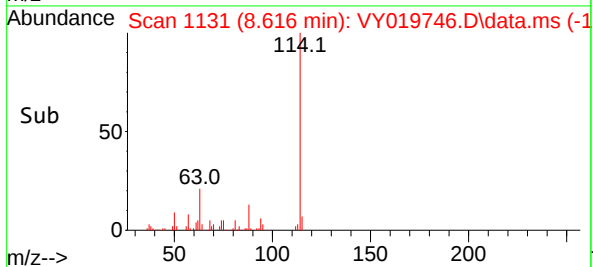
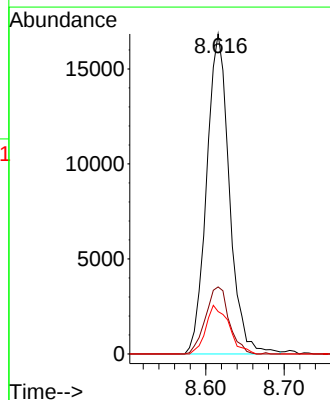
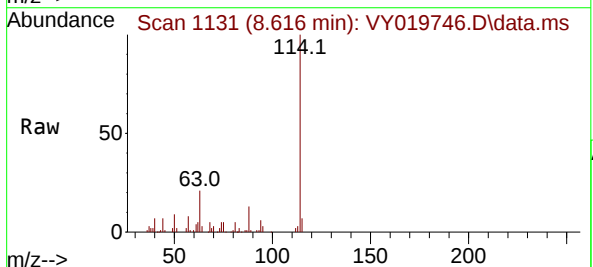
Tgt Ion: 114 Resp: 33971

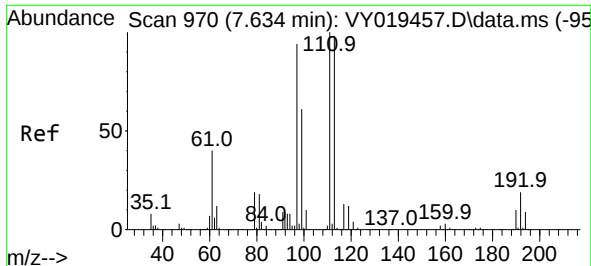
Ion Ratio Lower Upper

114 100

63 21.0 0.0 35.0

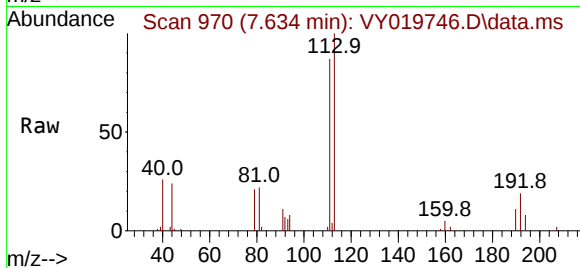
88 13.3 0.0 27.2



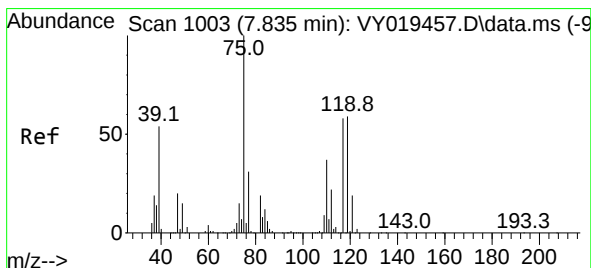
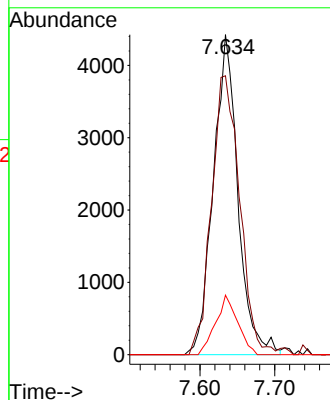
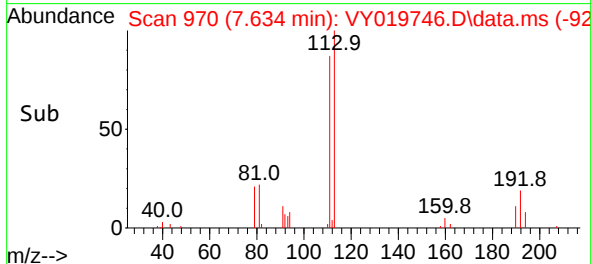


#35  
 Dibromofluoromethane  
 Concen: 52.630 ug/l  
 RT: 7.634 min Scan# 91  
 Delta R.T. 0.000 min  
 Lab File: VY019746.D  
 Acq: 01 Oct 2024 17:11

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

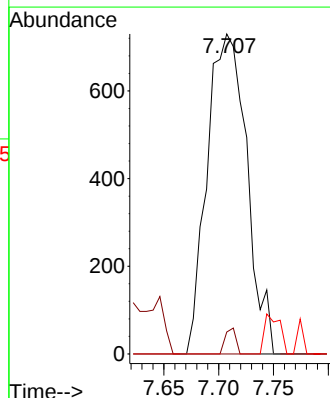
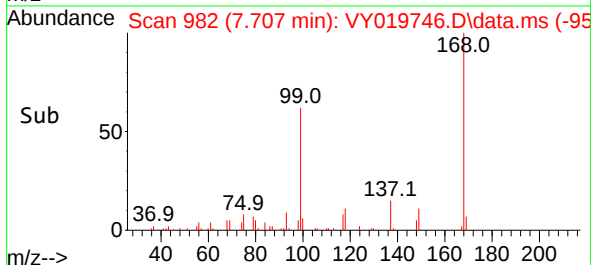
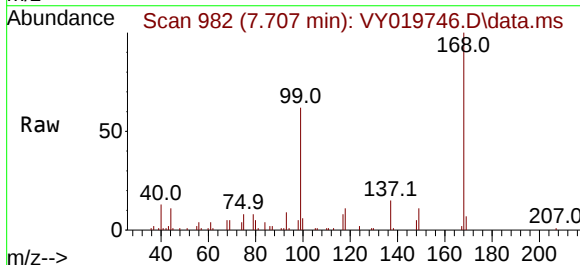


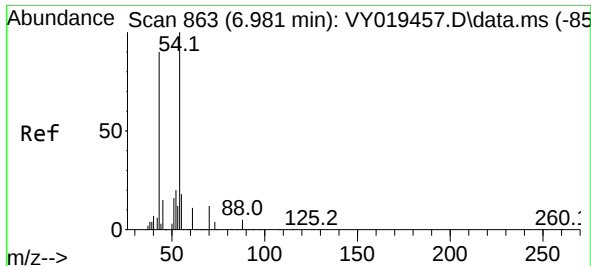
Tgt Ion:113 Resp: 10137  
 Ion Ratio Lower Upper  
 113 100  
 111 99.4 82.2 123.4  
 192 16.6 15.9 23.9



#36  
 1,1-Dichloropropene  
 Concen: 7.017 ug/l  
 RT: 7.707 min Scan# 982  
 Delta R.T. -0.128 min  
 Lab File: VY019746.D  
 Acq: 01 Oct 2024 17:11

Tgt Ion: 75 Resp: 1839  
 Ion Ratio Lower Upper  
 75 100  
 110 2.2 19.0 57.0#  
 77 0.0 25.3 37.9#

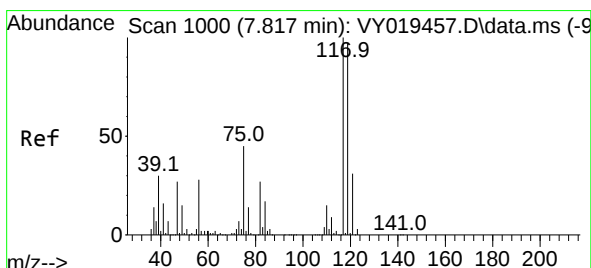
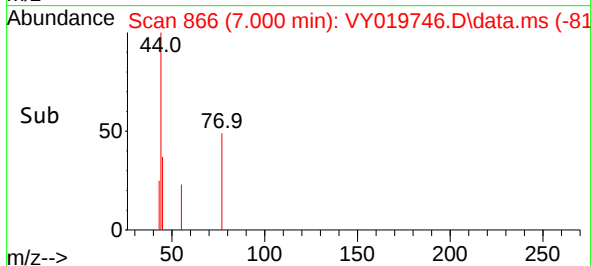
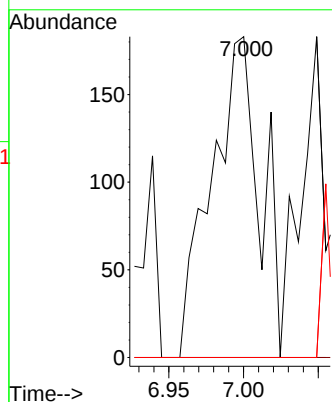
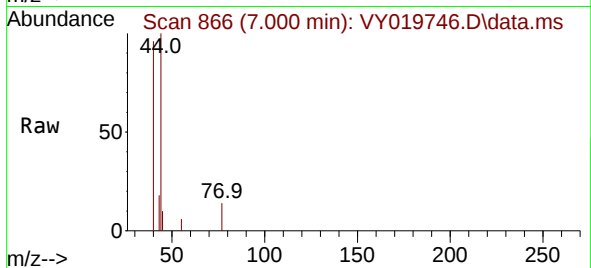




#37  
Ethyl Acetate  
Concen: 3.068 ug/l  
RT: 7.000 min Scan# 80  
Delta R.T. 0.019 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

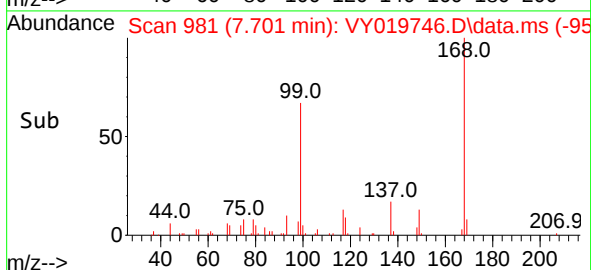
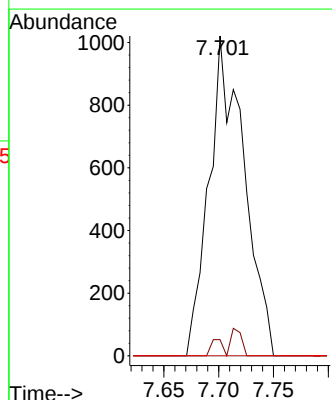
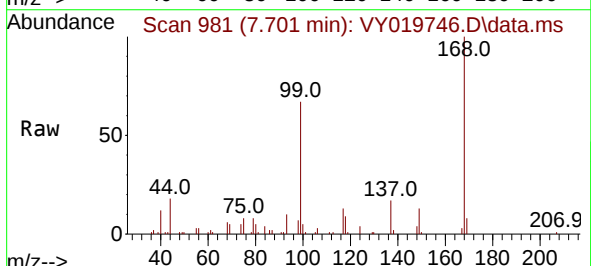
Instrument :  
MSVOA\_Y  
ClientSampleId :

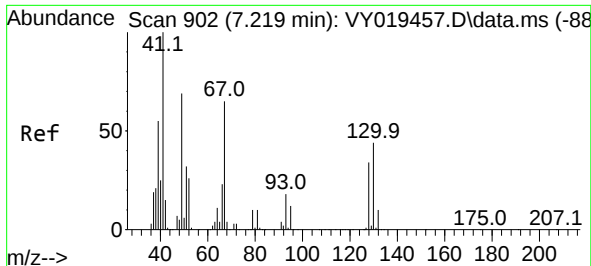
Tgt Ion: 43 Resp: 412  
Ion Ratio Lower Upper  
43 100  
61 0.0 12.6 19.0#  
70 0.0 7.8 11.8#



#38  
Carbon Tetrachloride  
Concen: 7.667 ug/l  
RT: 7.701 min Scan# 981  
Delta R.T. -0.115 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

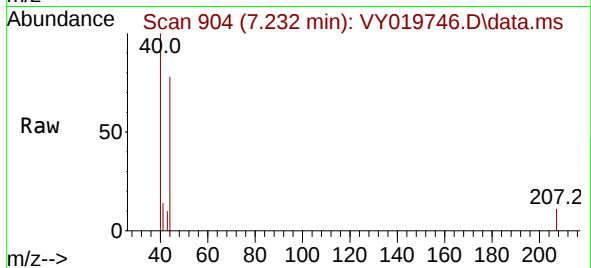
Tgt Ion: 117 Resp: 2266  
Ion Ratio Lower Upper  
117 100  
119 5.1 75.8 113.6#  
121 0.0 24.0 36.0#



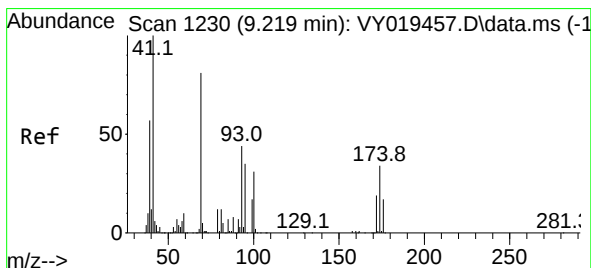
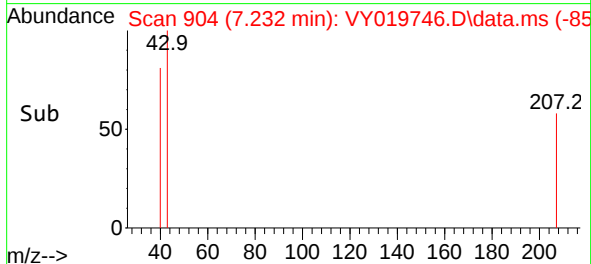
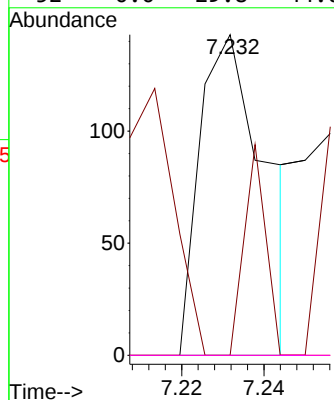


#41  
Methacrylonitrile  
Concen: 2.031 ug/l  
RT: 7.232 min Scan# 904  
Delta R.T. 0.013 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

Instrument :  
MSVOA\_Y  
ClientSampleId :

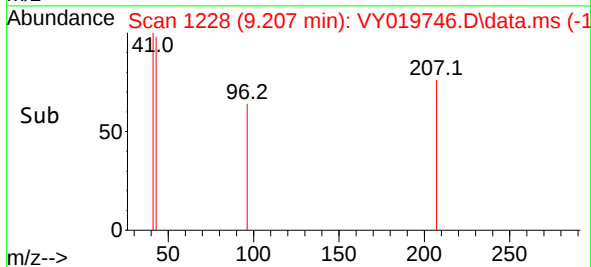
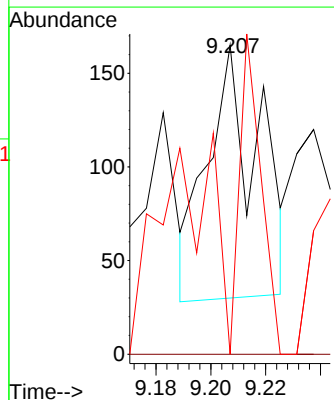
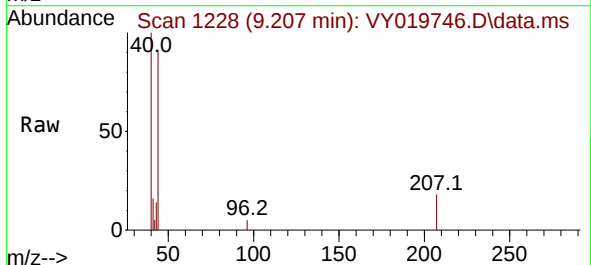


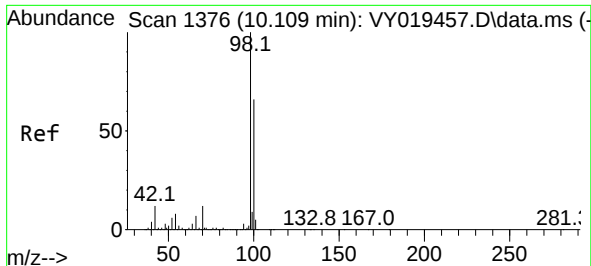
|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 159   |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 39 21.4     | 48.0 72.0#  |
| 67 0.0      | 75.1 112.7# |
| 52 0.0      | 29.8 44.6#  |



#48  
Methyl methacrylate  
Concen: 1.314 ug/l  
RT: 9.207 min Scan# 1228  
Delta R.T. -0.012 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

|             |             |
|-------------|-------------|
| Tgt Ion: 41 | Resp: 175   |
| Ion Ratio   | Lower Upper |
| 41 100      |             |
| 69 0.0      | 84.1 126.1# |
| 39 53.1     | 43.6 65.4   |

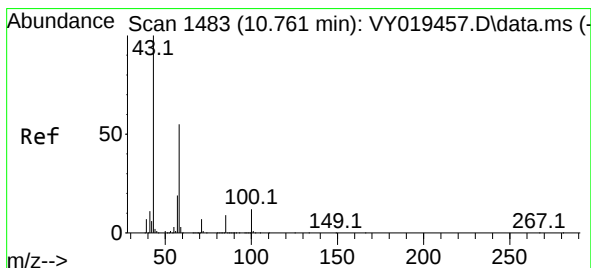
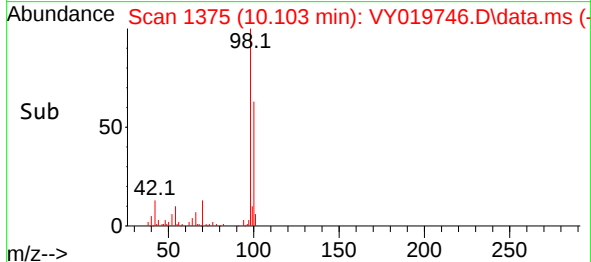
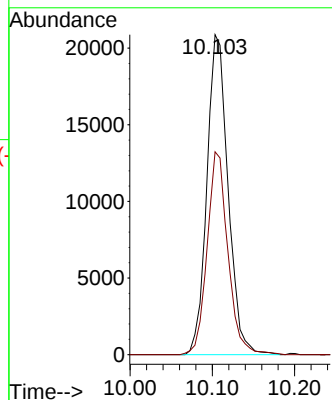
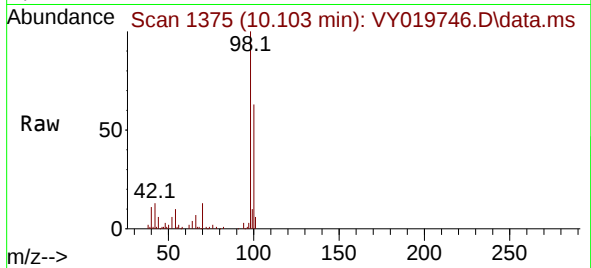




#50  
Toluene-d8  
Concen: 52.410 ug/l  
RT: 10.103 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

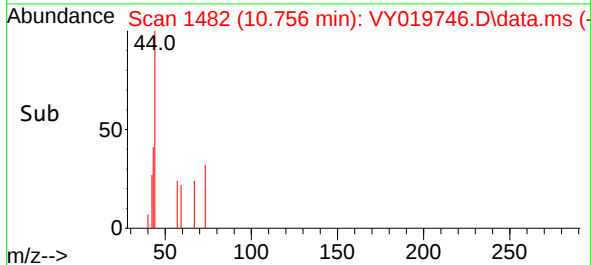
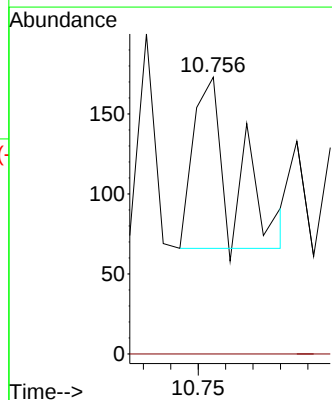
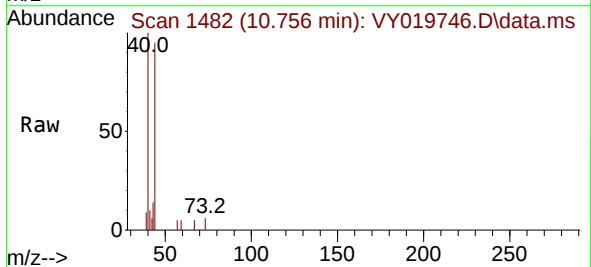
Instrument :  
MSVOA\_Y  
ClientSampleId :

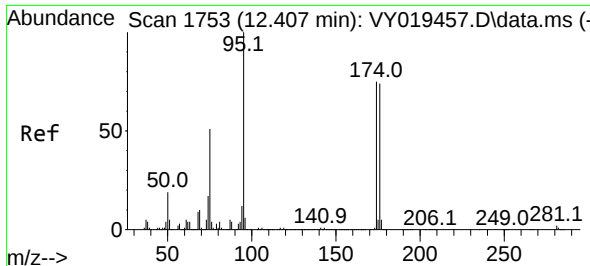
Tgt Ion: 98 Resp: 37338  
Ion Ratio Lower Upper  
98 100  
100 62.3 52.0 78.0



#59  
2-Hexanone  
Concen: 1.048 ug/l  
RT: 10.756 min Scan# 1482  
Delta R.T. -0.006 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

Tgt Ion: 43 Resp: 109  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.4 94.0#

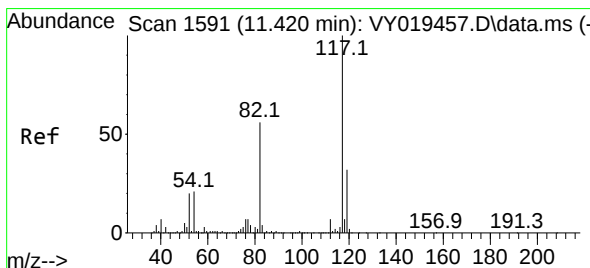
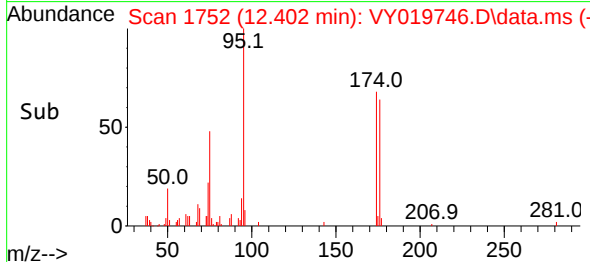
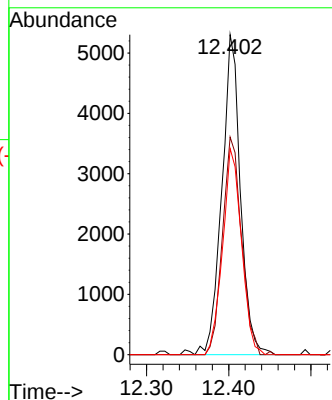
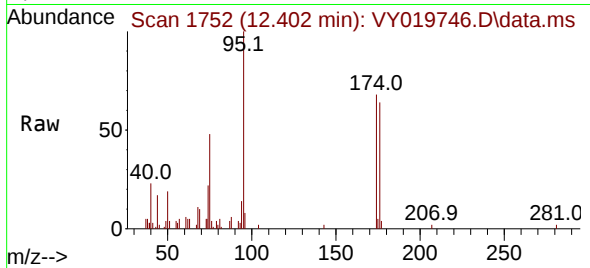




#62  
4-Bromofluorobenzene  
Concen: 30.632 ug/l  
RT: 12.402 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

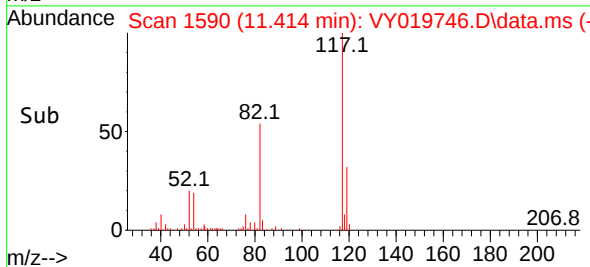
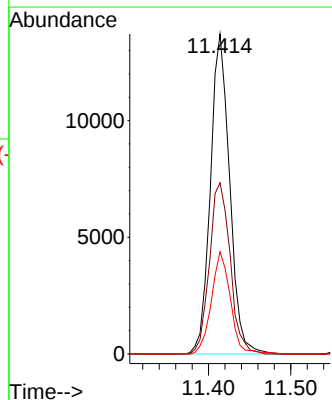
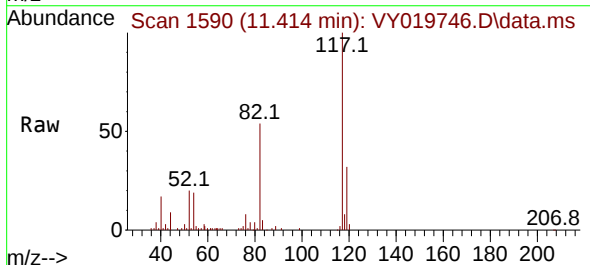
Instrument :  
MSVOA\_Y  
ClientSampleId :

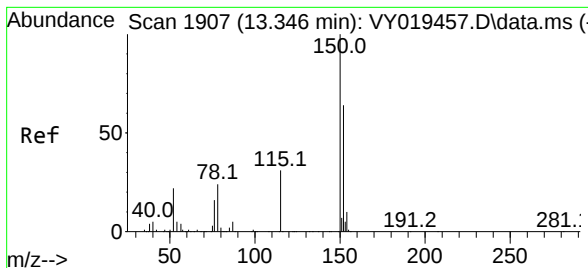
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 8391  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 69.3  | 0.0   | 175.6 |
| 176      | 64.8  | 0.0   | 171.4 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 1590  
Delta R.T. -0.006 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 22290 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 53.5  | 42.4  | 63.6  |
| 119      | 31.9  | 25.9  | 38.9  |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.340 min Scan# 1907

Delta R.T. -0.006 min

Lab File: VY019746.D

Acq: 01 Oct 2024 17:11

Instrument :

MSVOA\_Y

ClientSampleId :

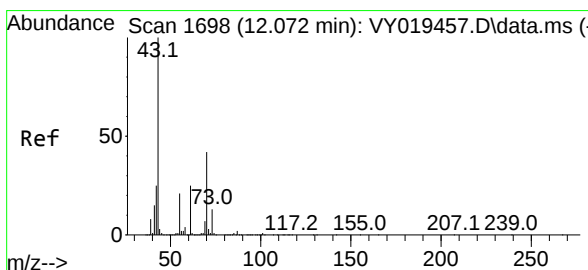
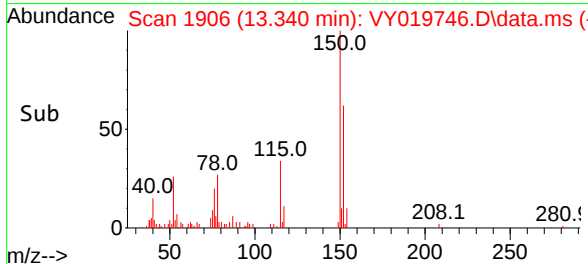
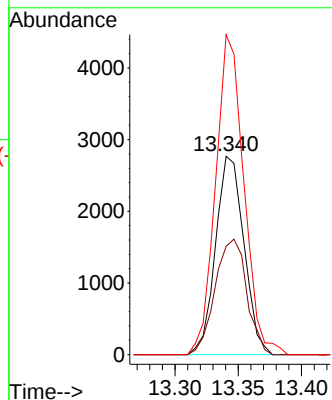
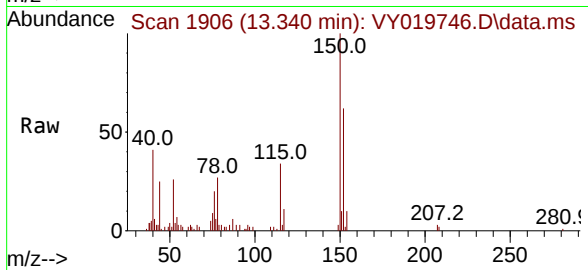
Tgt Ion:152 Resp: 4311

Ion Ratio Lower Upper

152 100

115 64.9 28.2 84.7

150 160.7 0.0 345.6



#74

N-ethyl acetate

Concen: 1.669 ug/l

RT: 12.078 min Scan# 1699

Delta R.T. 0.006 min

Lab File: VY019746.D

Acq: 01 Oct 2024 17:11

Tgt Ion: 43 Resp: 142

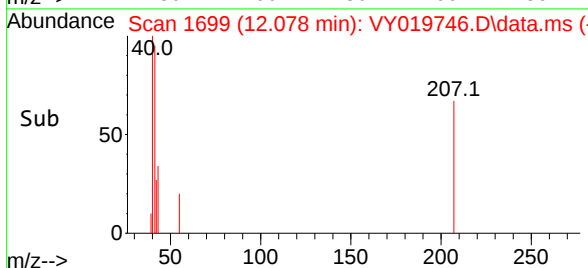
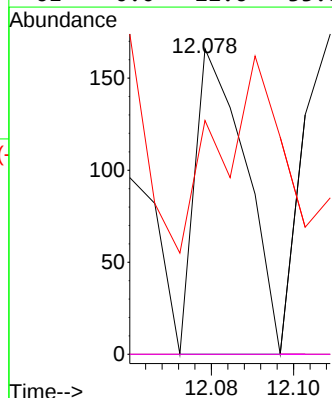
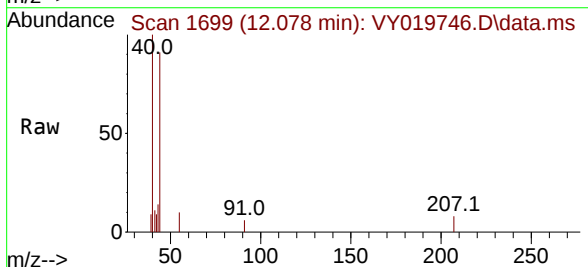
Ion Ratio Lower Upper

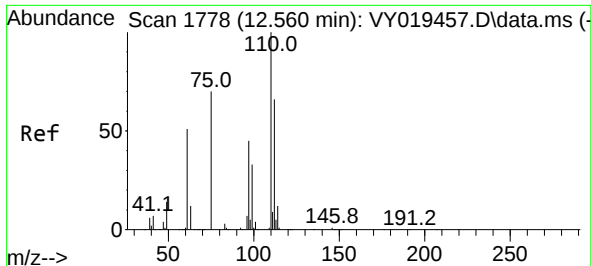
43 100

70 0.0 41.4 62.2#

55 116.9 23.3 34.9#

61 0.0 22.6 33.8#

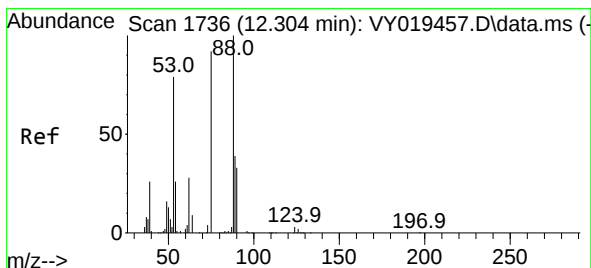
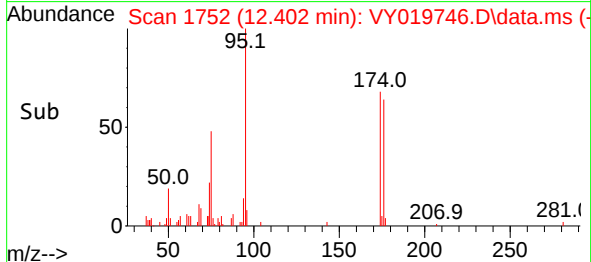
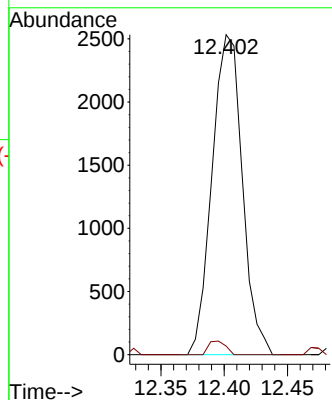
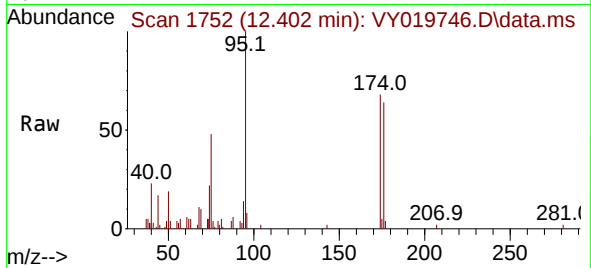




#76  
1,2,3-Trichloropropane  
Concen: 104.240 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. -0.158 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

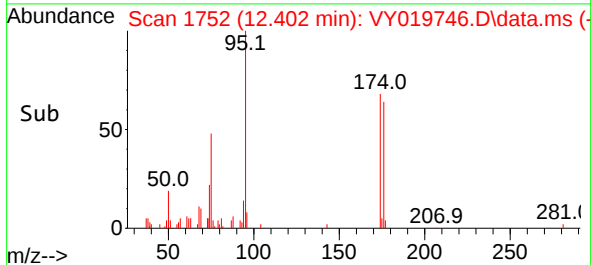
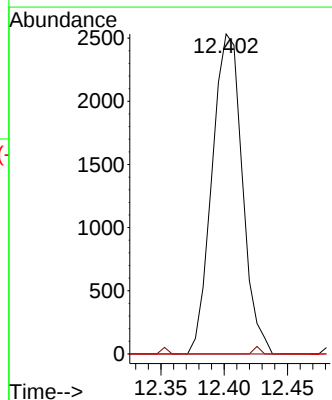
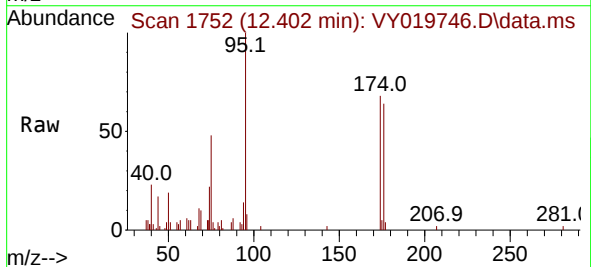
Instrument :  
MSVOA\_Y  
ClientSampleId :

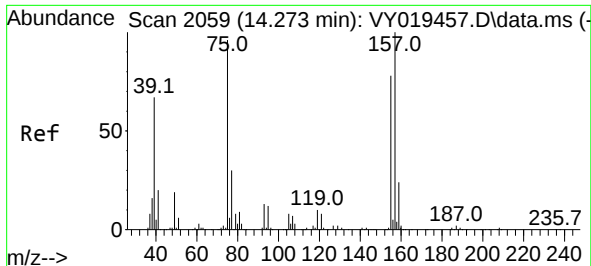
Tgt Ion: 75 Resp: 4212  
Ion Ratio Lower Upper  
75 100  
77 2.4 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 200.111 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. 0.098 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

Tgt Ion: 75 Resp: 4212  
Ion Ratio Lower Upper  
75 100  
53 0.0 66.8 100.2#  
89 0.0 35.8 53.6#

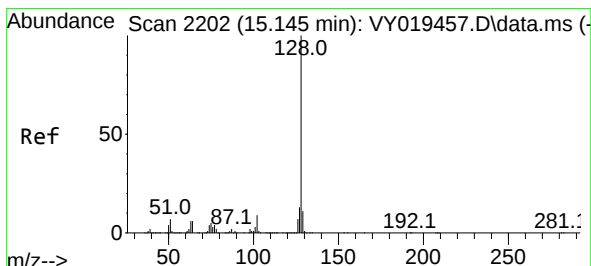
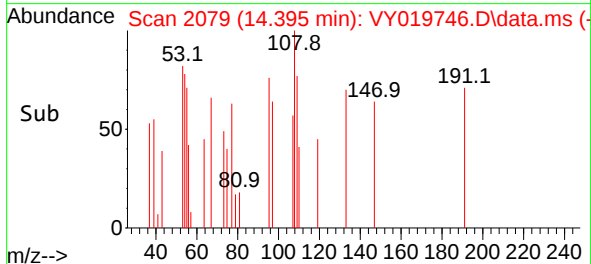
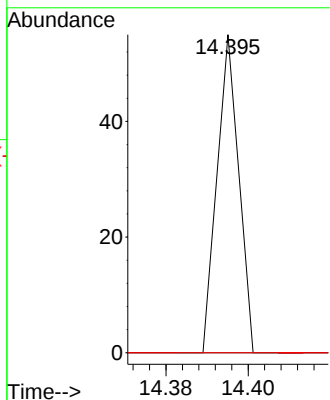
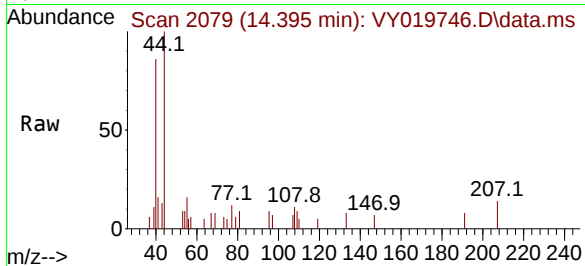




#92  
1,2-Dibromo-3-Chloropropane  
Concen: 2.162 ug/l  
RT: 14.395 min Scan# 2059  
Delta R.T. 0.122 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 75 Resp: 20  
Ion Ratio Lower Upper  
75 100  
155 0.0 48.6 145.8#  
157 0.0 62.7 188.2#



#95  
Naphthalene  
Concen: 3.891 ug/l  
RT: 15.133 min Scan# 2200  
Delta R.T. -0.012 min  
Lab File: VY019746.D  
Acq: 01 Oct 2024 17:11

Tgt Ion: 128 Resp: 570  
Ion Ratio Lower Upper  
128 100  
127 11.6 10.6 16.0  
129 0.0 8.6 13.0#

