

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY101824\  
 Data File : VY019947.D  
 Acq On : 18 Oct 2024 12:50  
 Operator : SY/MD  
 Sample : P4417-04  
 Misc : 5.02g/5.0mL/MSVOA\_Y/SOIL/B  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 18 23:31:34 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100924S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 16 05:44:48 2024  
 Response via : Initial Calibration

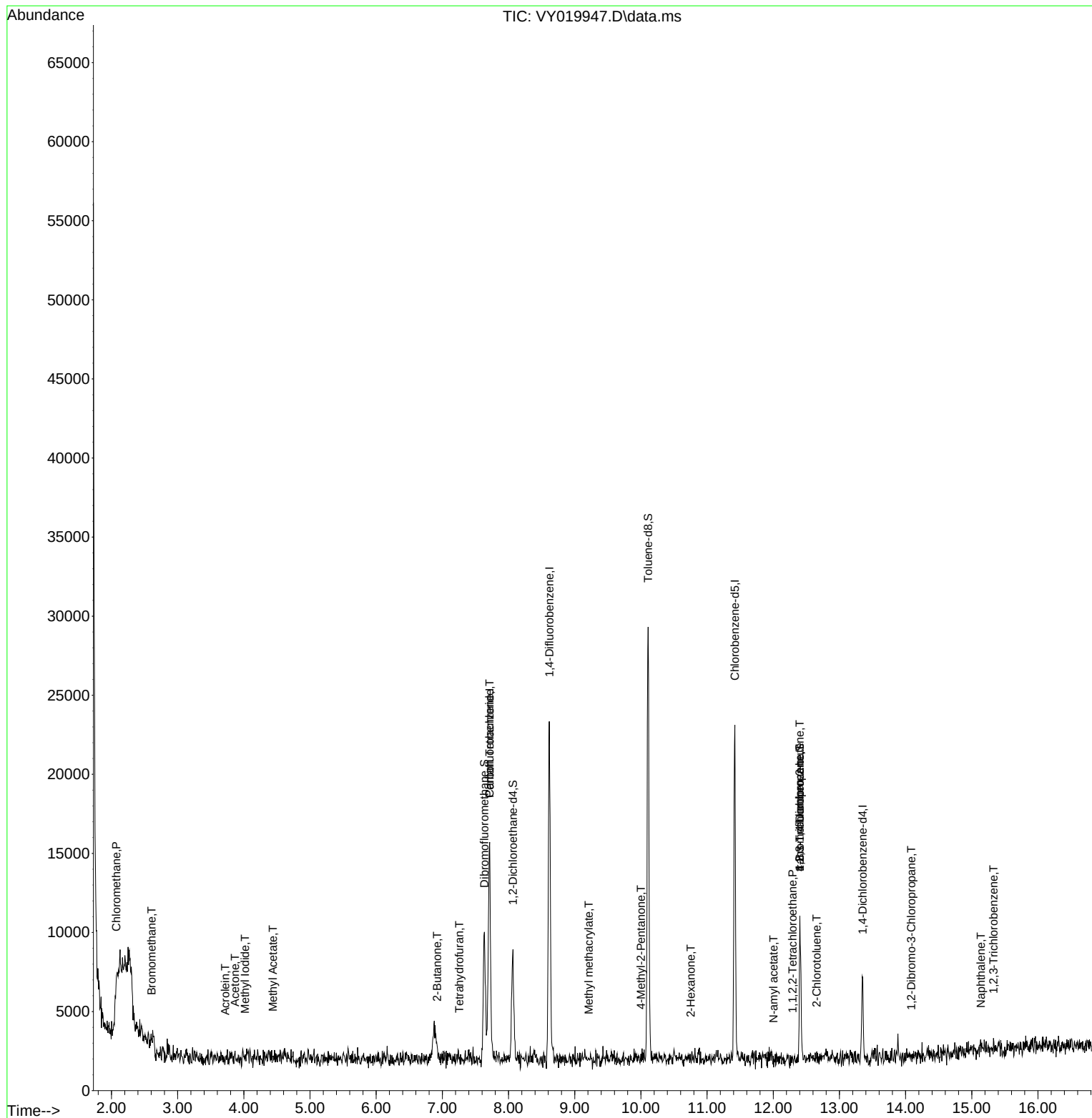
| Compound                      | R.T.   | QIon  | Response | Conc      | Units | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|-------|----------|
| -----                         |        |       |          |           |       |          |
| Internal Standards            |        |       |          |           |       |          |
| 1) Pentafluorobenzene         | 7.713  | 168   | 9879     | 50.000    | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 8.616  | 114   | 16901    | 50.000    | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 11.420 | 117   | 10357    | 50.000    | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.352 | 152   | 1449     | 50.000    | ug/l  | 0.00     |
| System Monitoring Compounds   |        |       |          |           |       |          |
| 33) 1,2-Dichloroethane-d4     | 8.067  | 65    | 5506     | 45.265    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =     | 90.520%  |
| 35) Dibromofluoromethane      | 7.634  | 113   | 5777     | 51.799    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =     | 103.600% |
| 50) Toluene-d8                | 10.109 | 98    | 17813    | 43.250    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =     | 86.500%  |
| 62) 4-Bromofluorobenzene      | 12.401 | 95    | 2945     | 19.789    | ug/l  | 0.00     |
| Spiked Amount                 | 50.000 | Range | 29 - 146 | Recovery  | =     | 39.580%  |
| Target Compounds              |        |       |          |           |       |          |
|                               |        |       |          |           |       | Qvalue   |
| 3) Chloromethane              | 2.074  | 50    | 286      | 2.389     | ug/l  | 97       |
| 5) Bromomethane               | 2.604  | 94    | 309      | 3.706     | ug/l  | 98       |
| 10) Methyl Iodide             | 4.019  | 142   | 269      | 2.333     | ug/l  | # 78     |
| 11) Tert butyl alcohol        | 4.659  | 59    | 24       | Below Cal | #     | 88       |
| 13) Acrolein                  | 3.720  | 56    | 31       | 3.468     | ug/l  | # 15     |
| 16) Acetone                   | 3.866  | 43    | 370      | 11.685    | ug/l  | # 59     |
| 18) Methyl Acetate            | 4.439  | 43    | 76       | 1.114     | ug/l  | # 46     |
| 20) Methylene Chloride        | 4.622  | 84    | 65       | Below Cal | #     | 12       |
| 25) 2-Butanone                | 6.921  | 43    | 65       | 1.534     | ug/l  | # 41     |
| 29) Tetrahydrofuran           | 7.256  | 42    | 49       | 2.025     | ug/l  | # 26     |
| 38) Carbon Tetrachloride      | 7.713  | 117   | 773      | 4.488     | ug/l  | # 24     |
| 48) Methyl methacrylate       | 9.213  | 41    | 84       | 1.118     | ug/l  | # 28     |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43    | 133      | 1.526     | ug/l  | # 31     |
| 59) 2-Hexanone                | 10.755 | 43    | 102      | 1.639     | ug/l  | # 19     |
| 74) N-amyl acetate            | 12.005 | 43    | 106      | 3.284     | ug/l  | # 37     |
| 75) 1,1,2,2-Tetrachloroethane | 12.292 | 83    | 22       | 1.016     | ug/l  | # 26     |
| 76) 1,2,3-Trichloropropane    | 12.401 | 75    | 1643     | 57.881    | ug/l  | # 100    |
| 79) 2-Chlorotoluene           | 12.658 | 91    | 105      | 1.244     | ug/l  | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 12.401 | 75    | 1643     | 233.630   | ug/l  | # 16     |
| 92) 1,2-Dibromo-3-Chloropr... | 14.084 | 75    | 23       | 6.655     | ug/l  | # 1      |
| 95) Naphthalene               | 15.139 | 128   | 322      | 6.634     | ug/l  | # 69     |
| 96) 1,2,3-Trichlorobenzene    | 15.328 | 180   | 48       | 2.207     | ug/l  | # 61     |
| -----                         |        |       |          |           |       |          |

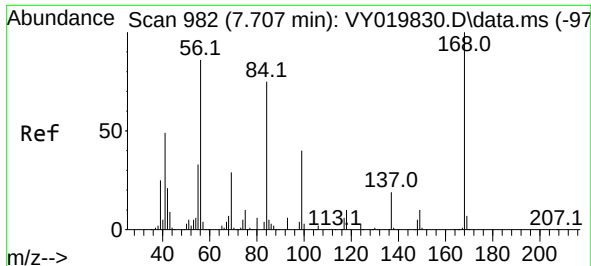
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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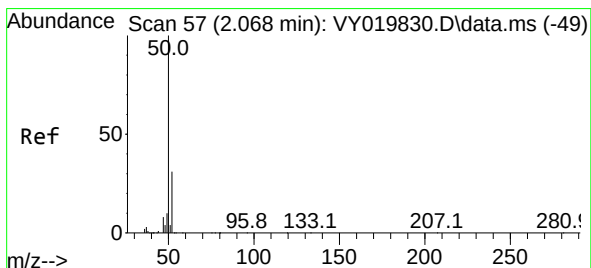
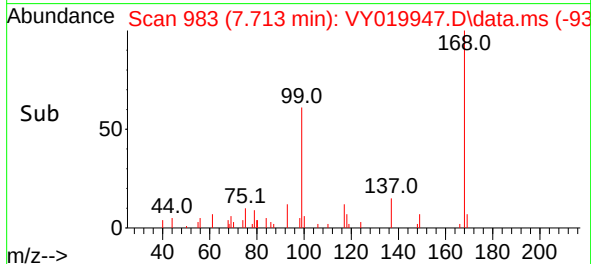
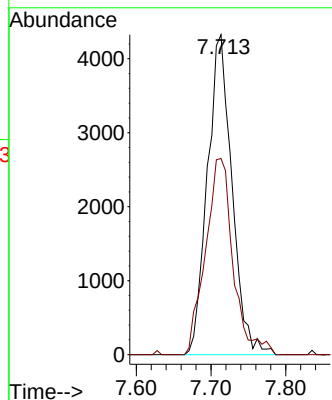
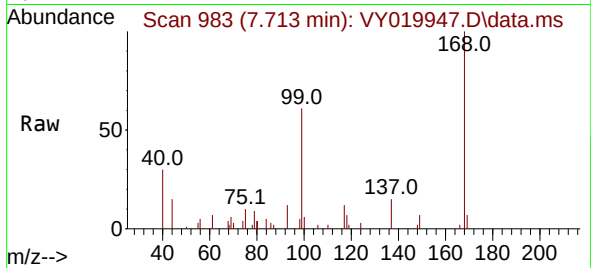




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. 0.006 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

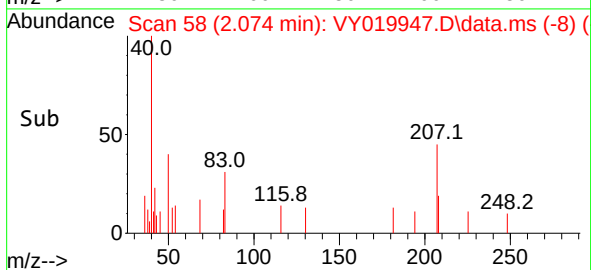
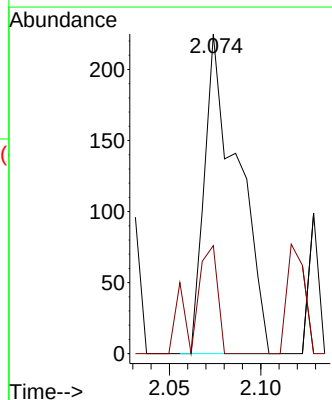
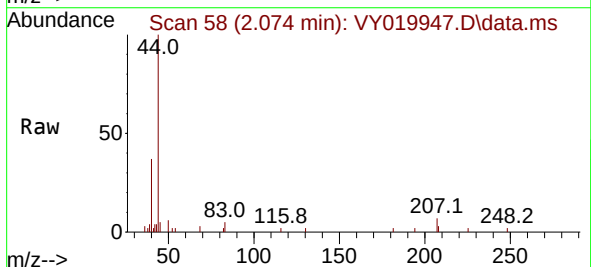
Instrument :  
MSVOA\_Y  
ClientSampleId :

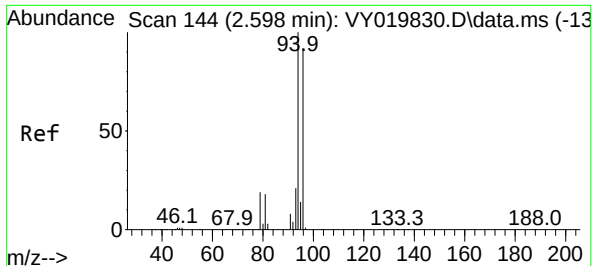
Tgt Ion:168 Resp: 9879  
Ion Ratio Lower Upper  
168 100  
99 61.3 39.1 58.7#



#3  
Chloromethane  
Concen: 2.389 ug/l  
RT: 2.074 min Scan# 58  
Delta R.T. 0.006 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

Tgt Ion: 50 Resp: 286  
Ion Ratio Lower Upper  
50 100  
52 33.8 25.6 38.4

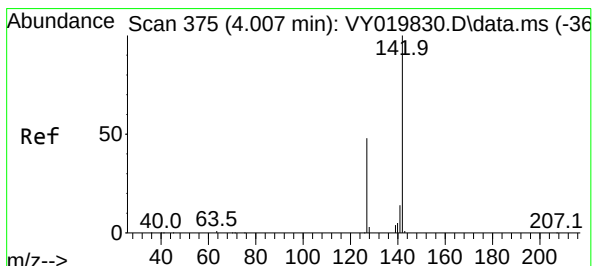
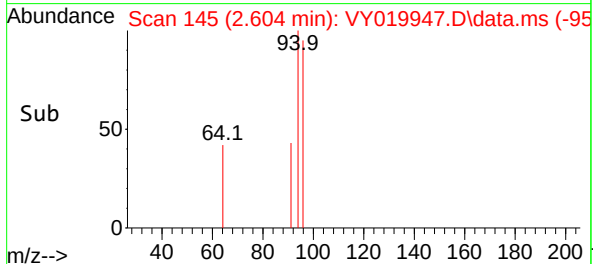
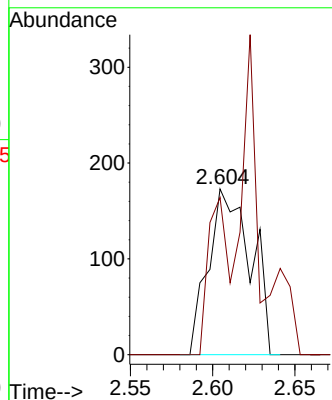
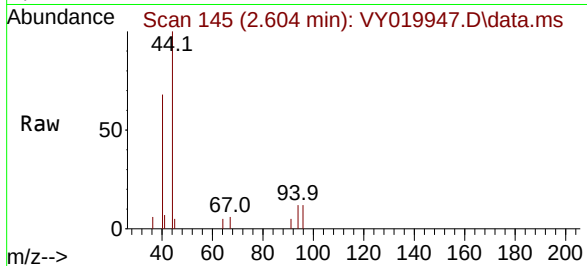




#5  
Bromomethane  
Concen: 3.706 ug/l  
RT: 2.604 min Scan# 144  
Delta R.T. 0.006 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

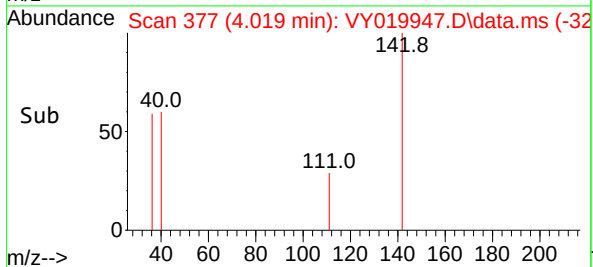
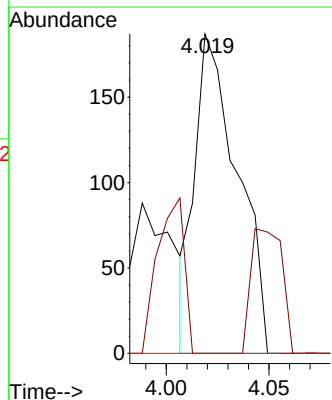
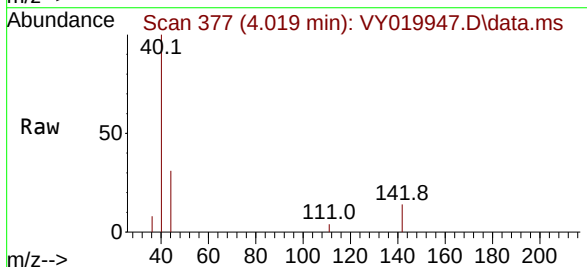
Instrument :  
MSVOA\_Y  
ClientSampleId :

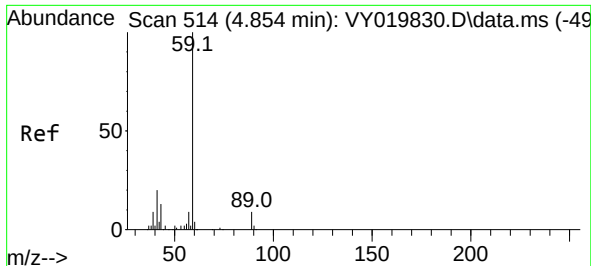
Tgt Ion: 94 Resp: 309  
Ion Ratio Lower Upper  
94 100  
96 94.8 74.1 111.1



#10  
Methyl Iodide  
Concen: 2.333 ug/l  
RT: 4.019 min Scan# 377  
Delta R.T. 0.012 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

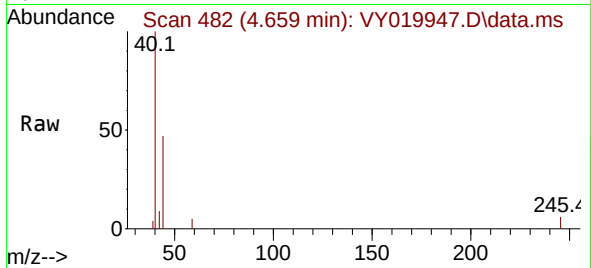
Tgt Ion:142 Resp: 269  
Ion Ratio Lower Upper  
142 100  
127 30.5 32.8 49.2#  
141 0.0 11.4 17.2#



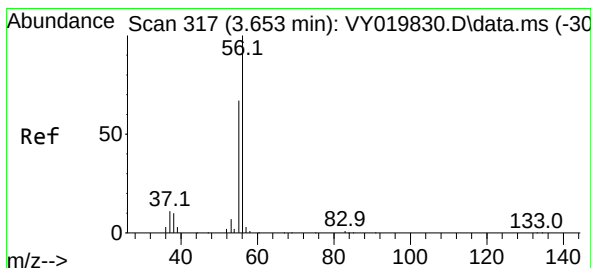
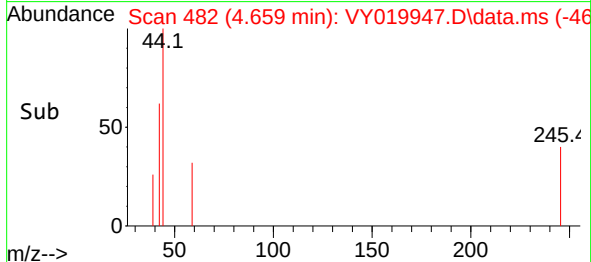
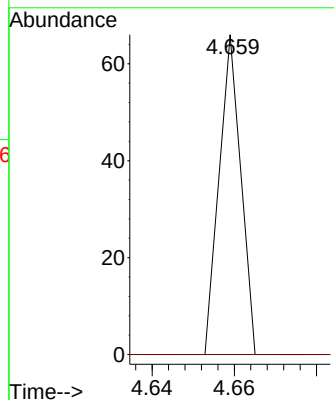


#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.659 min Scan# 41  
Delta R.T. -0.201 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

Instrument :  
MSVOA\_Y  
ClientSampleId :

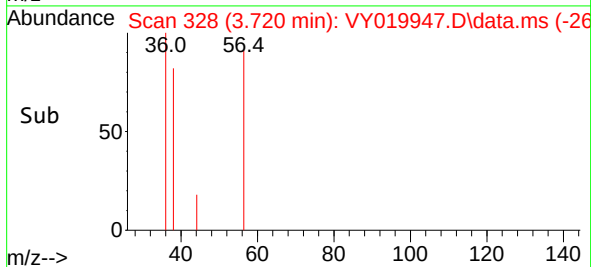
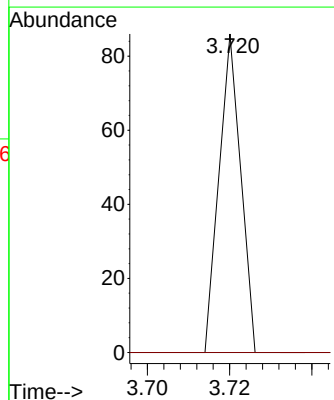
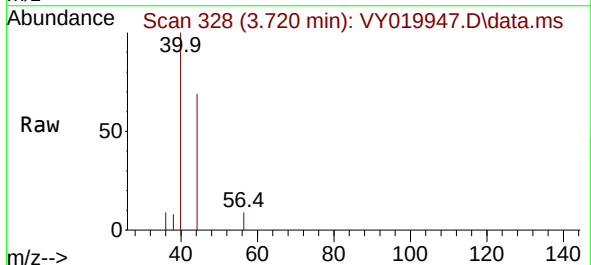


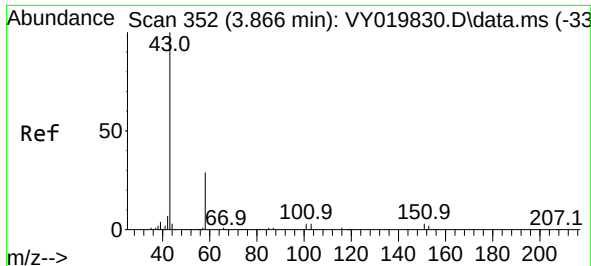
Tgt Ion: 59 Resp: 24  
Ion Ratio Lower Upper  
59 100  
57 0.0 3.0 4.6#



#13  
Acrolein  
Concen: 3.468 ug/l  
RT: 3.720 min Scan# 328  
Delta R.T. 0.067 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

Tgt Ion: 56 Resp: 31  
Ion Ratio Lower Upper  
56 100  
55 0.0 55.7 83.5#

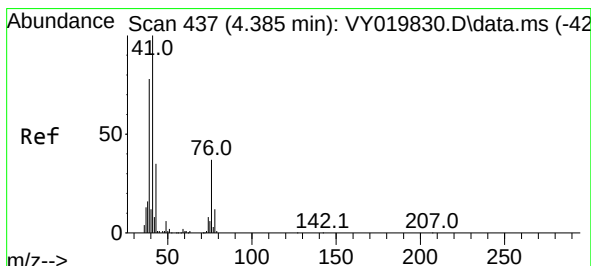
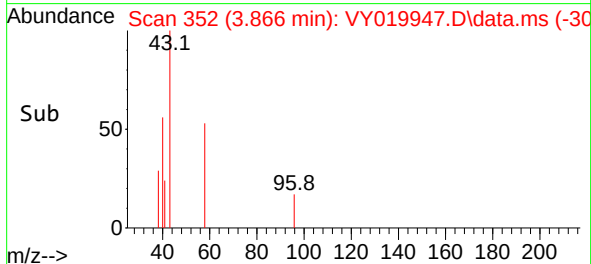
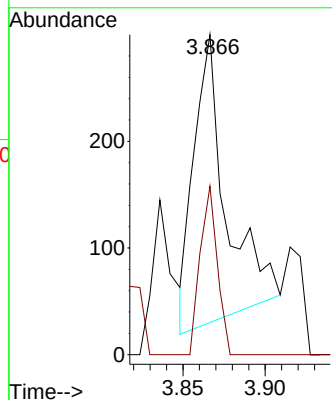
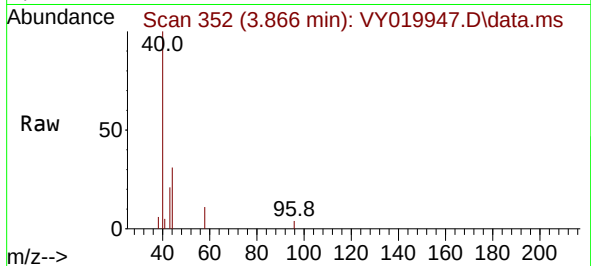




#16  
Acetone  
Concen: 11.685 ug/l  
RT: 3.866 min Scan# 311  
Delta R.T. -0.006 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

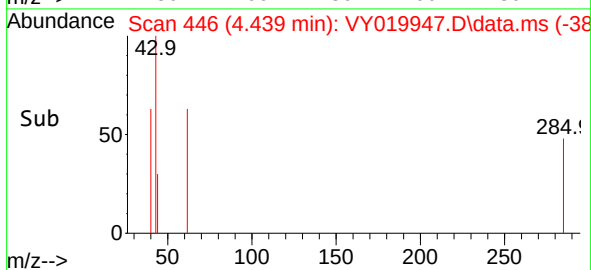
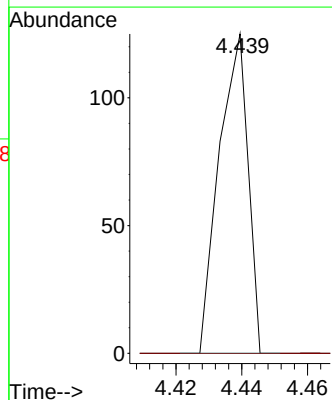
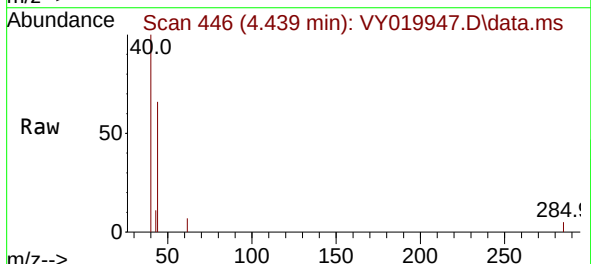
Instrument :  
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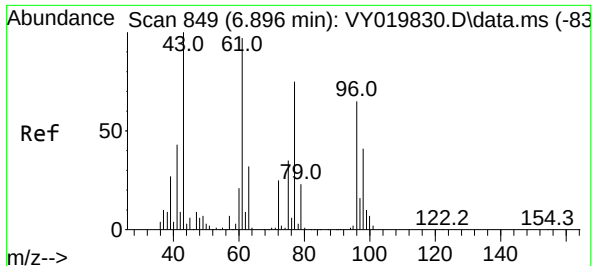
Tgt Ion: 43 Resp: 370  
Ion Ratio Lower Upper  
43 100  
58 64.8 31.7 47.5#



#18  
Methyl Acetate  
Concen: 1.114 ug/l  
RT: 4.439 min Scan# 446  
Delta R.T. 0.055 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

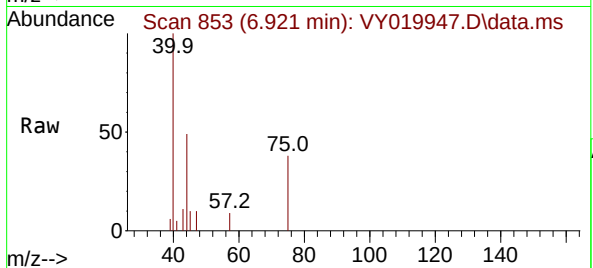
Tgt Ion: 43 Resp: 76  
Ion Ratio Lower Upper  
43 100  
74 0.0 23.3 34.9#



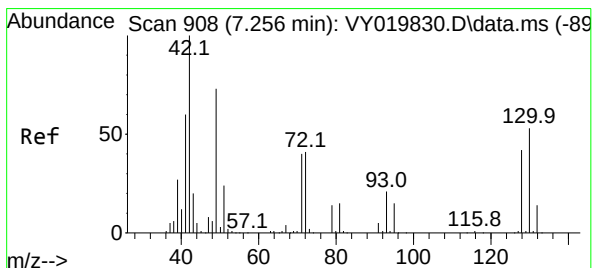
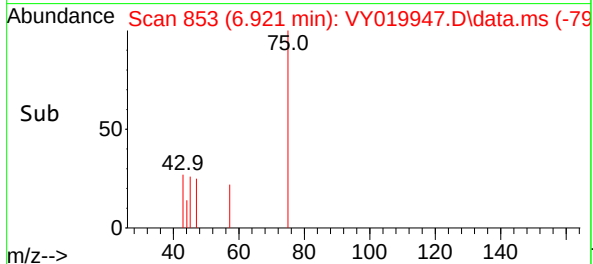
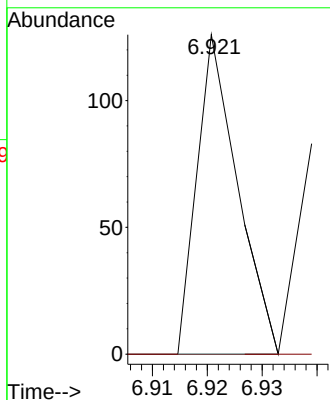


#25  
2-Butanone  
Concen: 1.534 ug/l  
RT: 6.921 min Scan# 849  
Delta R.T. 0.031 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

Instrument :  
MSVOA\_Y  
ClientSampleId :

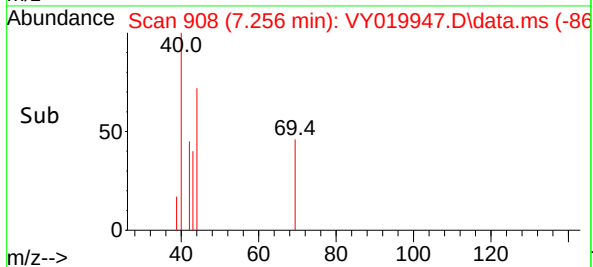
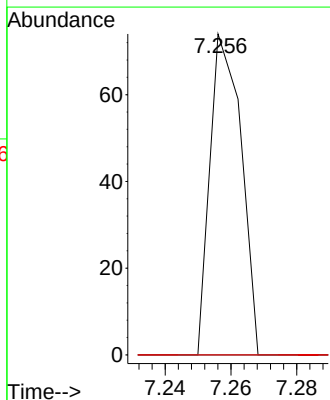
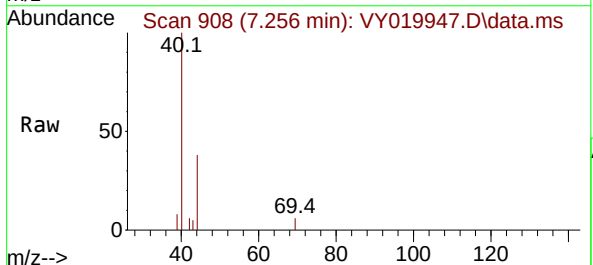


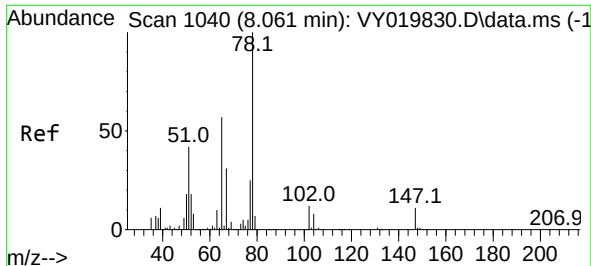
Tgt Ion: 43 Resp: 65  
Ion Ratio Lower Upper  
43 100  
72 0.0 27.3 40.9#



#29  
Tetrahydrofuran  
Concen: 2.025 ug/l  
RT: 7.256 min Scan# 908  
Delta R.T. -0.006 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

Tgt Ion: 42 Resp: 49  
Ion Ratio Lower Upper  
42 100  
72 0.0 43.0 64.4#  
71 0.0 40.8 61.2#

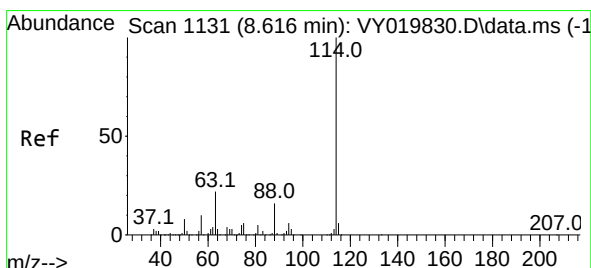
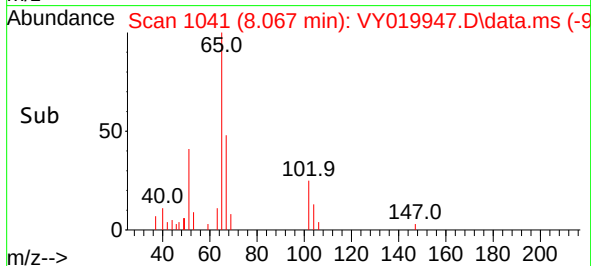
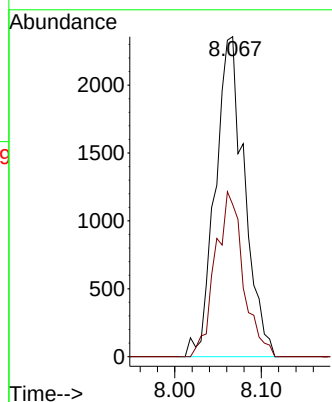
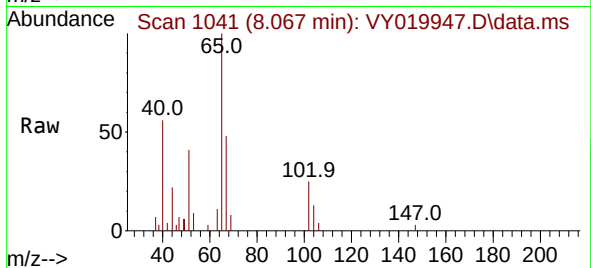




#33  
1,2-Dichloroethane-d4  
Concen: 45.265 ug/l  
RT: 8.067 min Scan# 1041  
Delta R.T. 0.006 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

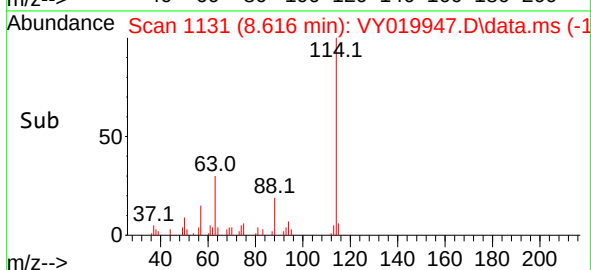
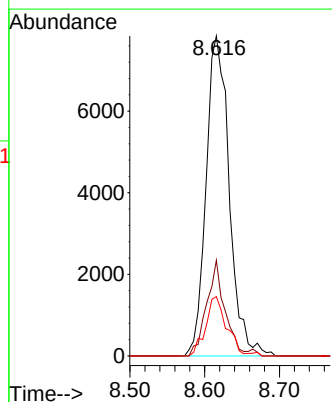
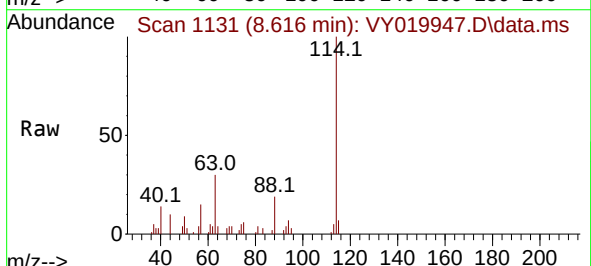
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tgt Ion: 65 Resp: 5506  
Ion Ratio Lower Upper  
65 100  
67 49.7 0.0 109.6

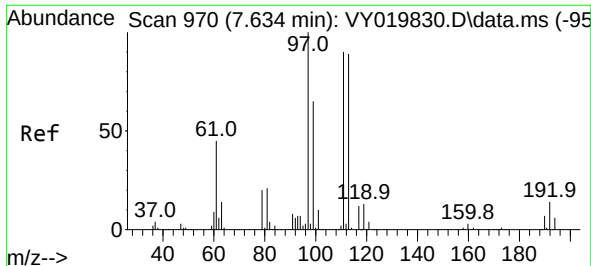


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.616 min Scan# 1131  
Delta R.T. 0.000 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

Tgt Ion: 114 Resp: 16901  
Ion Ratio Lower Upper  
114 100  
63 29.9 0.0 35.0  
88 18.5 0.0 27.2

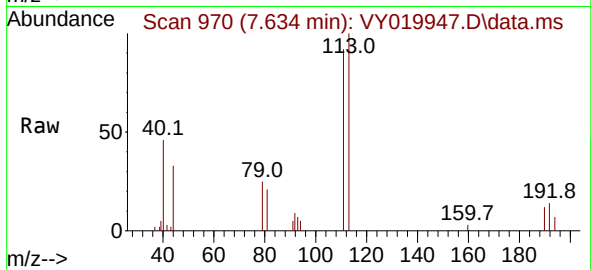




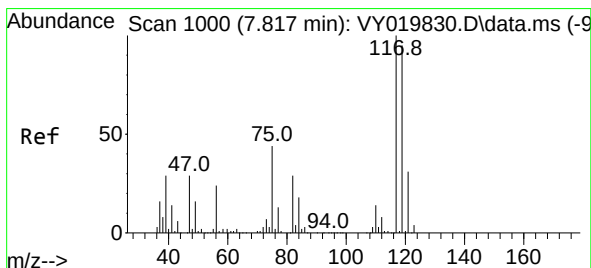
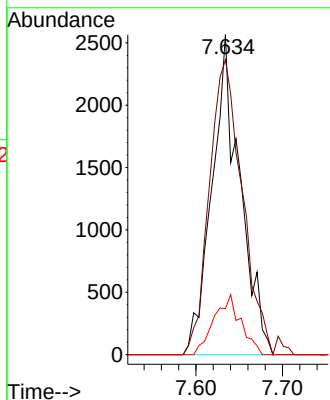
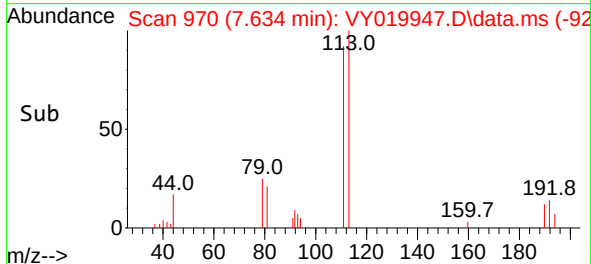


#35  
Dibromofluoromethane  
Concen: 51.799 ug/l  
RT: 7.634 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

Instrument :  
MSVOA\_Y  
ClientSampleId :

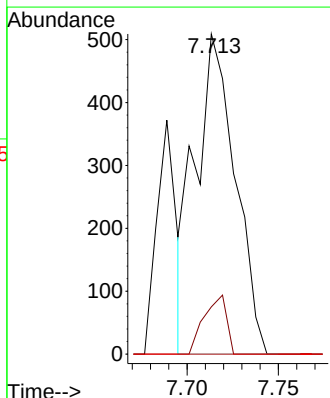
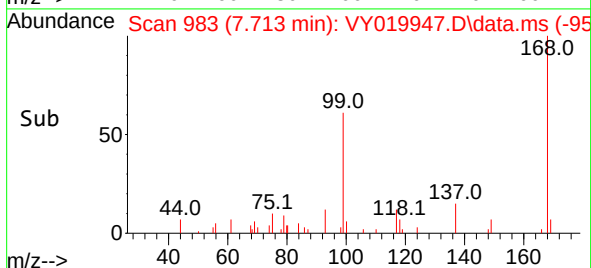
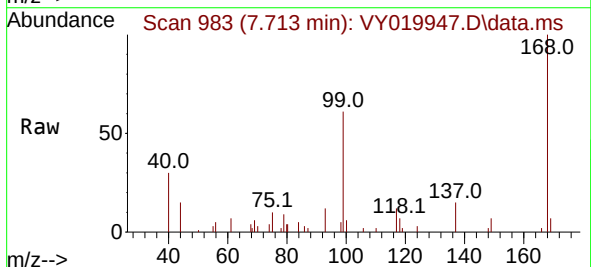


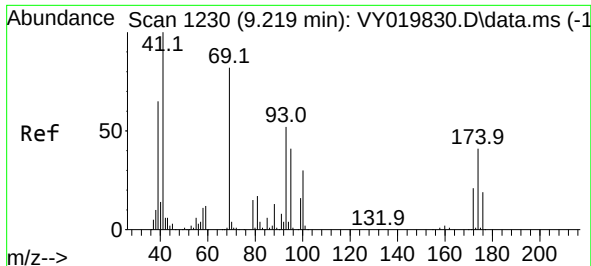
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 5777  |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 107.5 | 82.2  | 123.4 |
| 192      | 17.9  | 15.9  | 23.9  |



#38  
Carbon Tetrachloride  
Concen: 4.488 ug/l  
RT: 7.713 min Scan# 983  
Delta R.T. -0.103 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 773    |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 14.7  | 75.8  | 113.6# |
| 121      | 0.0   | 24.0  | 36.0#  |





#48

Methyl methacrylate

Concen: 1.118 ug/l

RT: 9.213 min Scan# 11

Delta R.T. -0.006 min

Lab File: VY019947.D

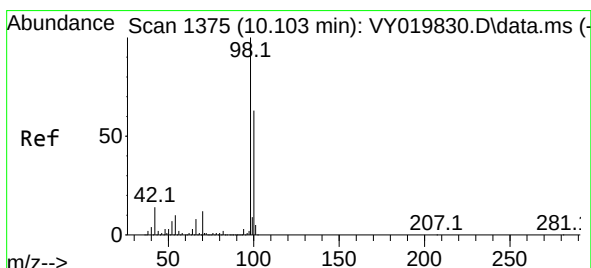
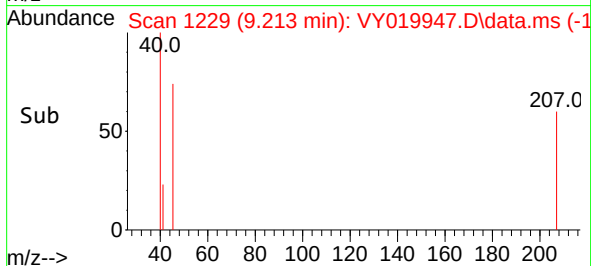
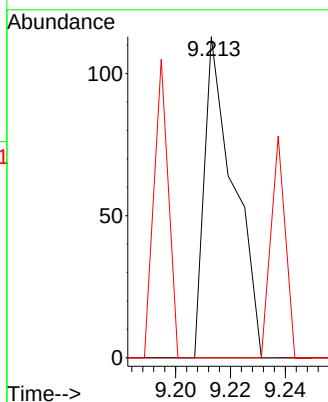
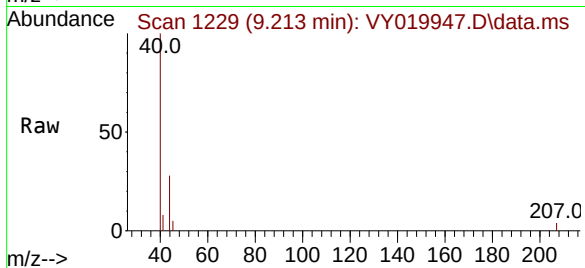
Acq: 18 Oct 2024 12:50

Instrument :

MSVOA\_Y

ClientSampleId :

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 41    | Resp: | 84     |
| Ion      | Ratio | Lower | Upper  |
| 41       | 100   |       |        |
| 69       | 0.0   | 84.1  | 126.1# |
| 39       | 45.2  | 43.6  | 65.4   |



#50

Toluene-d8

Concen: 43.250 ug/l

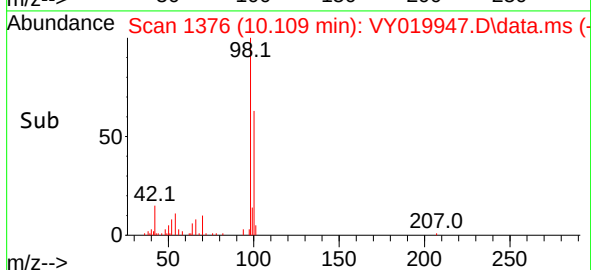
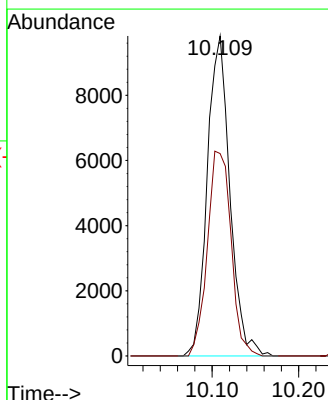
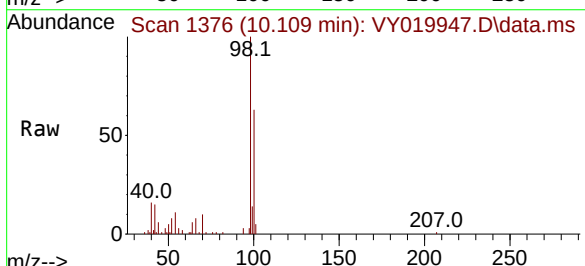
RT: 10.109 min Scan# 1376

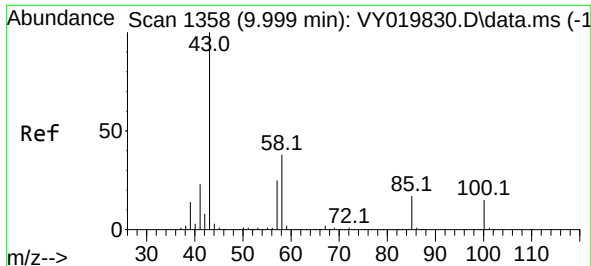
Delta R.T. 0.000 min

Lab File: VY019947.D

Acq: 18 Oct 2024 12:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 98    | Resp: | 17813 |
| Ion      | Ratio | Lower | Upper |
| 98       | 100   |       |       |
| 100      | 67.0  | 52.0  | 78.0  |

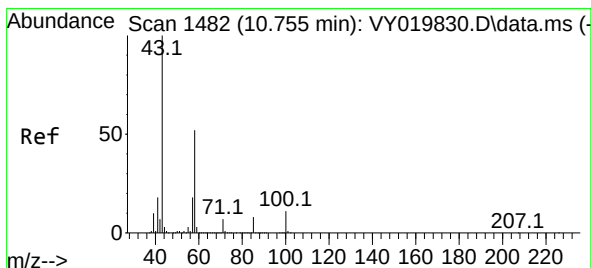
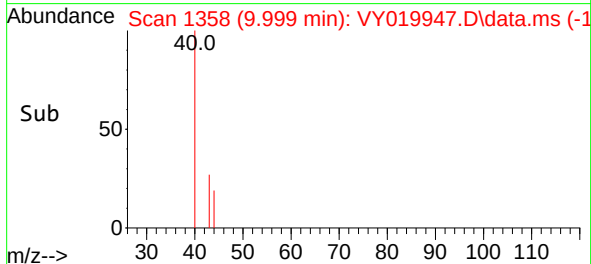
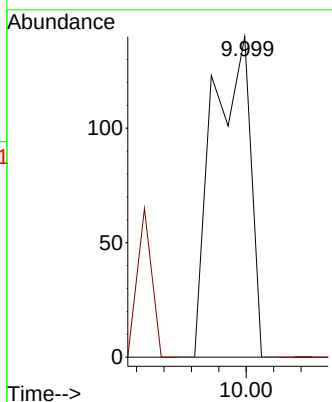
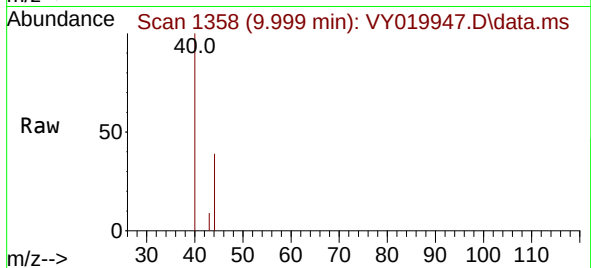




#51  
4-Methyl-2-Pentanone  
Concen: 1.526 ug/l  
RT: 9.999 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

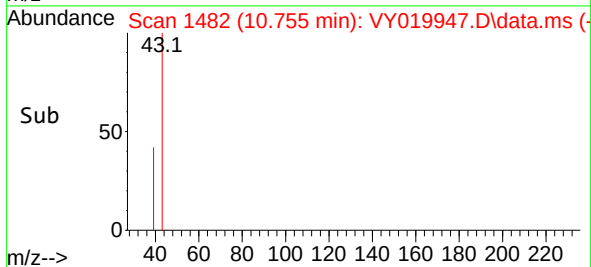
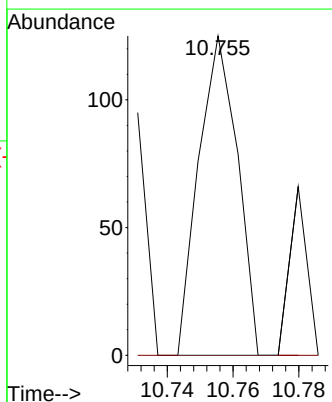
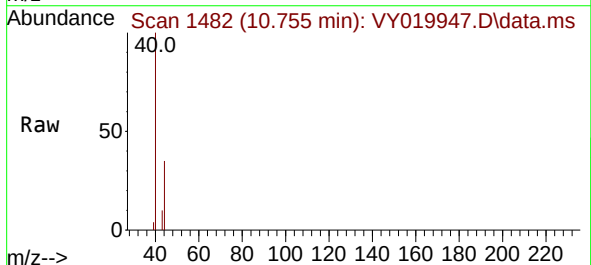
Instrument :  
MSVOA\_Y  
ClientSampleId :

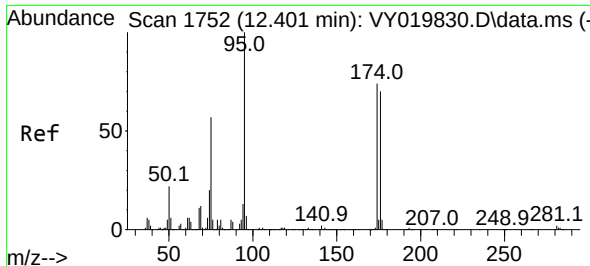
Tgt Ion: 43 Resp: 133  
Ion Ratio Lower Upper  
43 100  
58 0.0 35.7 53.5#



#59  
2-Hexanone  
Concen: 1.639 ug/l  
RT: 10.755 min Scan# 1482  
Delta R.T. -0.006 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

Tgt Ion: 43 Resp: 102  
Ion Ratio Lower Upper  
43 100  
58 0.0 31.4 94.0#

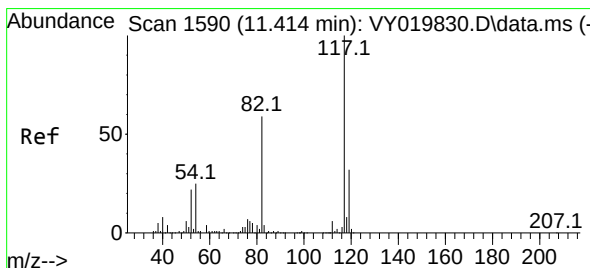
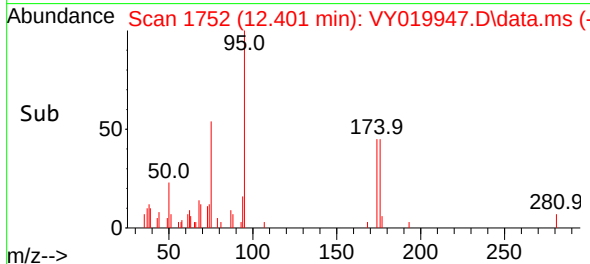
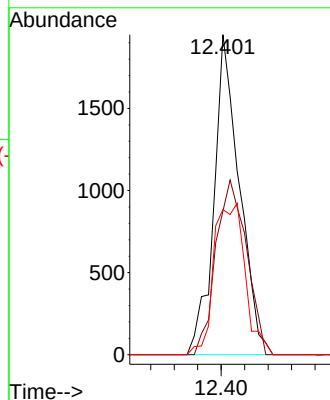
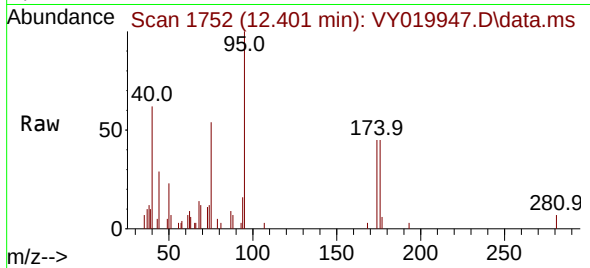




#62  
4-Bromofluorobenzene  
Concen: 19.789 ug/l  
RT: 12.401 min Scan# 1752  
Delta R.T. -0.006 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

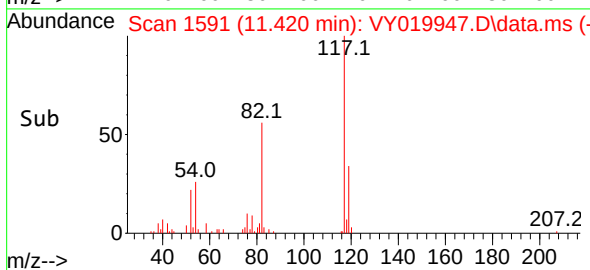
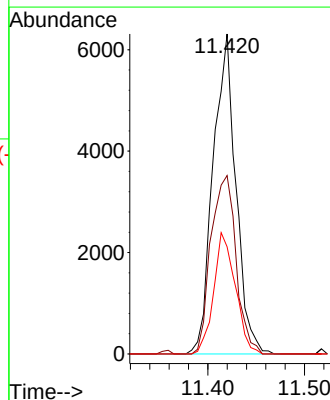
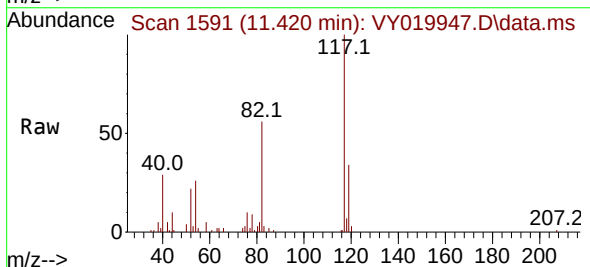
Instrument :  
MSVOA\_Y  
ClientSampleId :

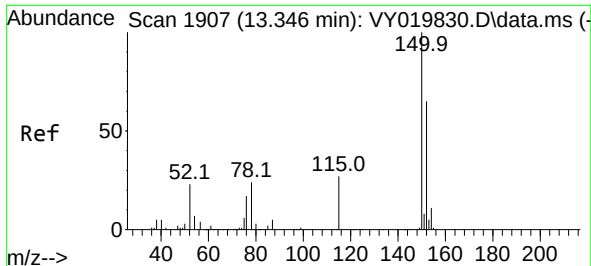
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 95    | Resp: | 2945  |
| Ion      | Ratio | Lower | Upper |
| 95       | 100   |       |       |
| 174      | 65.6  | 0.0   | 175.6 |
| 176      | 57.7  | 0.0   | 171.4 |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.000 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

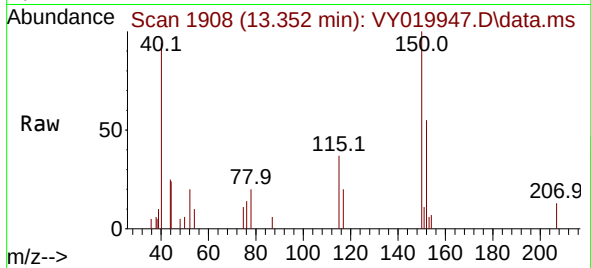
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 117   | Resp: | 10357 |
| Ion      | Ratio | Lower | Upper |
| 117      | 100   |       |       |
| 82       | 55.8  | 42.4  | 63.6  |
| 119      | 33.5  | 25.9  | 38.9  |



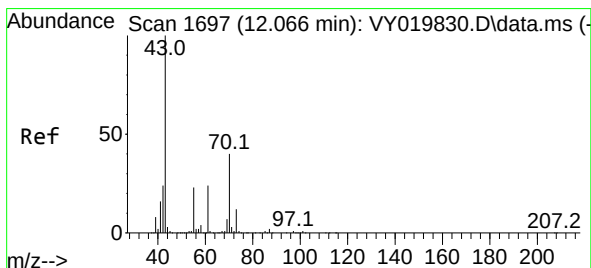
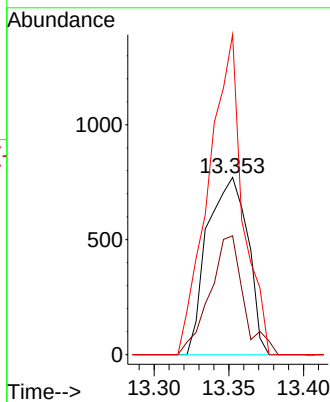
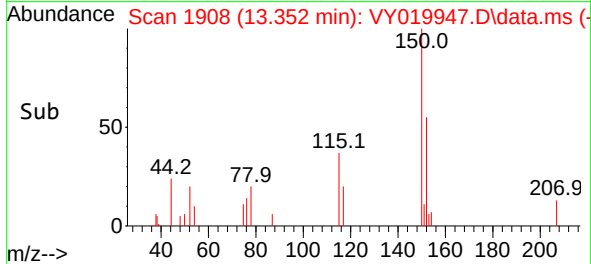


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.352 min Scan# 1907  
Delta R.T. 0.006 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50

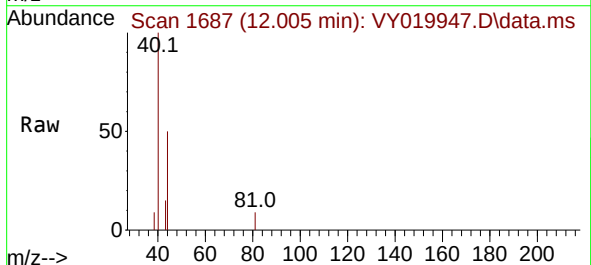
Instrument :  
MSVOA\_Y  
ClientSampleId :



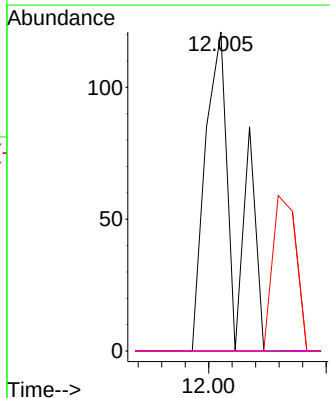
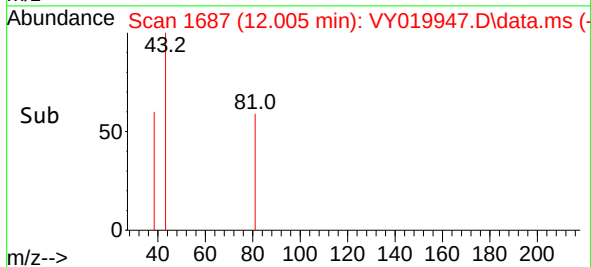
Tgt Ion:152 Resp: 1449  
Ion Ratio Lower Upper  
152 100  
115 55.8 28.2 84.7  
150 152.9 0.0 345.6

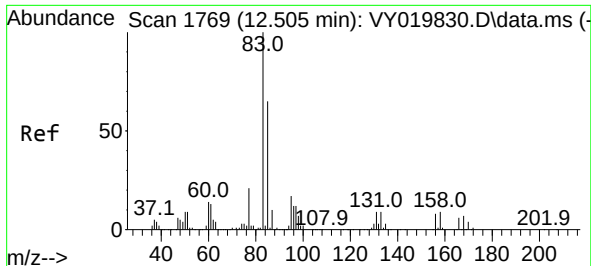


#74  
N-ethyl acetate  
Concen: 3.284 ug/l  
RT: 12.005 min Scan# 1687  
Delta R.T. -0.067 min  
Lab File: VY019947.D  
Acq: 18 Oct 2024 12:50



Tgt Ion: 43 Resp: 106  
Ion Ratio Lower Upper  
43 100  
70 0.0 41.4 62.2#  
55 0.0 23.3 34.9#  
61 0.0 22.6 33.8#

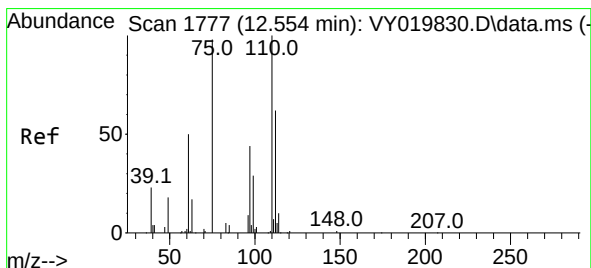
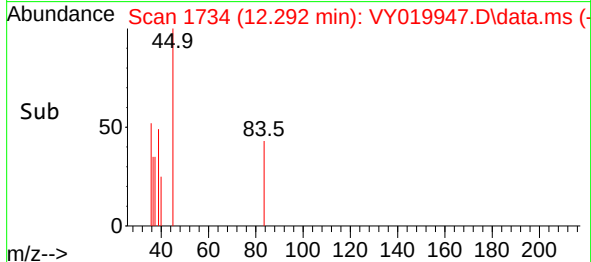
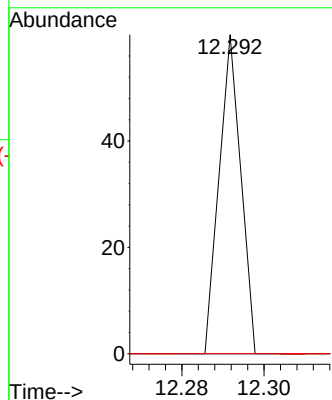
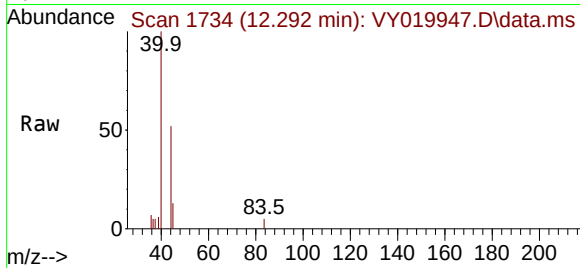




#75  
 1,1,2,2-Tetrachloroethane  
 Concen: 1.016 ug/l  
 RT: 12.292 min Scan# 1752  
 Delta R.T. -0.219 min  
 Lab File: VY019947.D  
 Acq: 18 Oct 2024 12:50

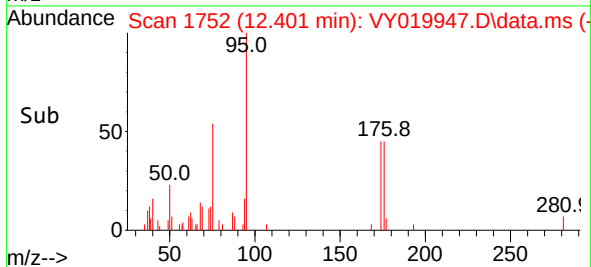
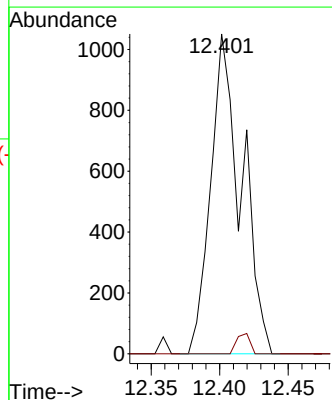
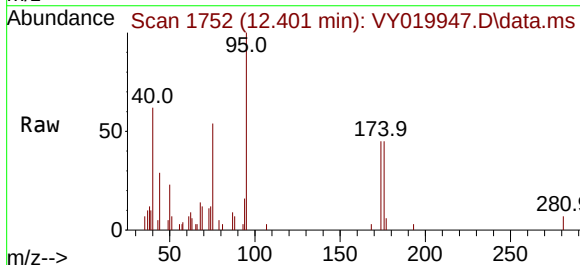
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

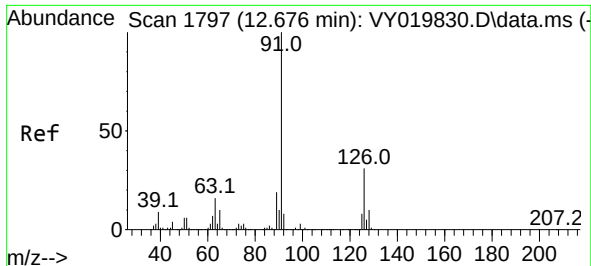
Tgt Ion: 83 Resp: 22  
 Ion Ratio Lower Upper  
 83 100  
 131 0.0 5.0 14.9#  
 85 0.0 32.0 96.0#



#76  
 1,2,3-Trichloropropane  
 Concen: 57.881 ug/l  
 RT: 12.401 min Scan# 1752  
 Delta R.T. -0.158 min  
 Lab File: VY019947.D  
 Acq: 18 Oct 2024 12:50

Tgt Ion: 75 Resp: 1643  
 Ion Ratio Lower Upper  
 75 100  
 77 2.7 0.0 0.0#





#79

2-Chlorotoluene

Concen: 1.244 ug/l

RT: 12.658 min Scan# 11

Delta R.T. -0.024 min

Lab File: VY019947.D

Acq: 18 Oct 2024 12:50

Instrument :

MSVOA\_Y

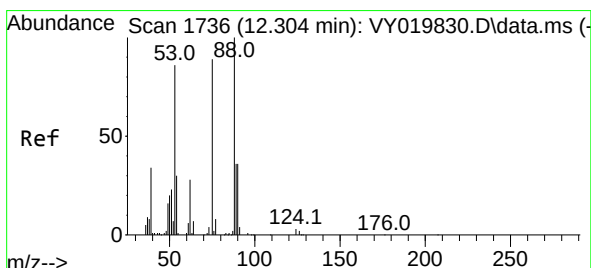
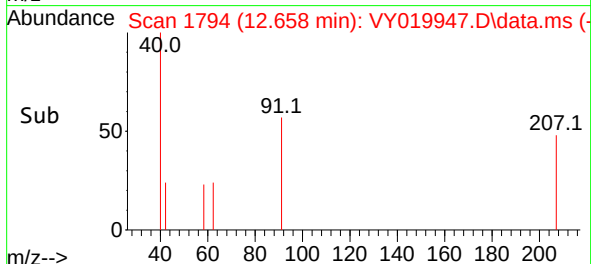
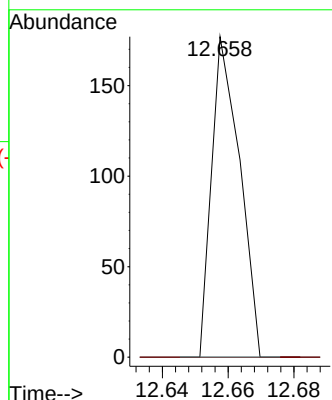
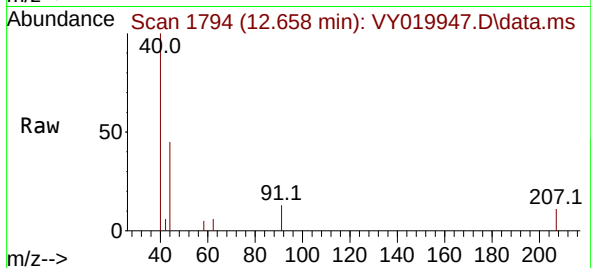
ClientSampleId :

Tgt Ion: 91 Resp: 105

Ion Ratio Lower Upper

91 100

126 0.0 17.8 53.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 233.630 ug/l

RT: 12.401 min Scan# 1752

Delta R.T. 0.098 min

Lab File: VY019947.D

Acq: 18 Oct 2024 12:50

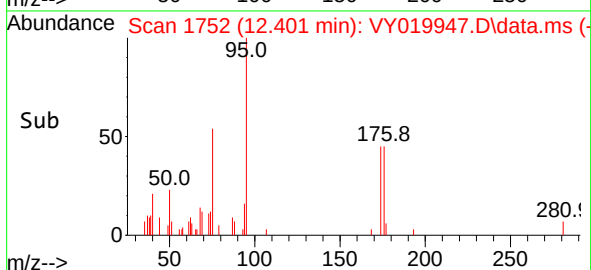
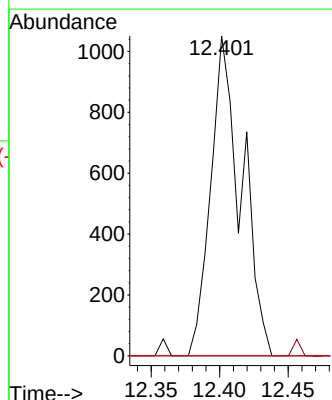
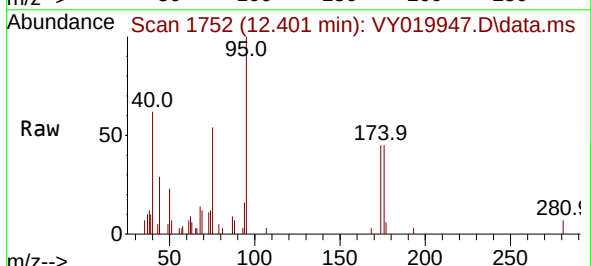
Tgt Ion: 75 Resp: 1643

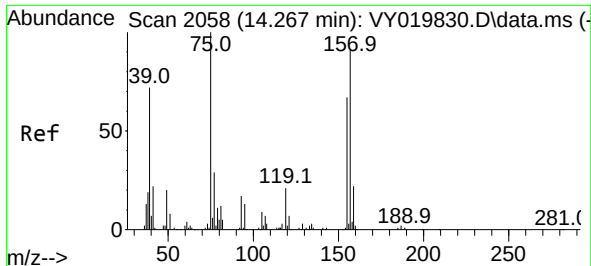
Ion Ratio Lower Upper

75 100

53 0.0 66.8 100.2#

89 0.0 35.8 53.6#





#92

1,2-Dibromo-3-Chloropropane

Concen: 6.655 ug/l

RT: 14.084 min Scan# 2058

Delta R.T. -0.189 min

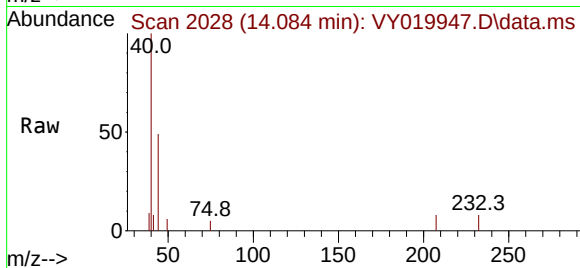
Lab File: VY019947.D

Acq: 18 Oct 2024 12:50

Instrument :

MSVOA\_Y

ClientSampleId :



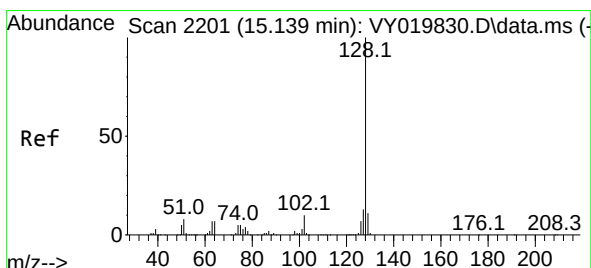
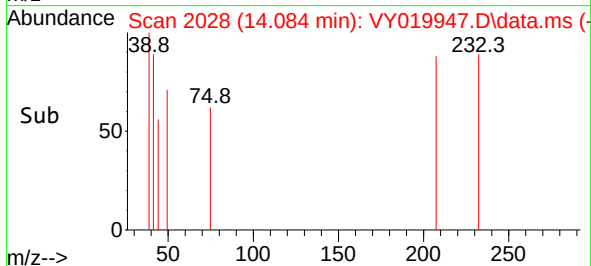
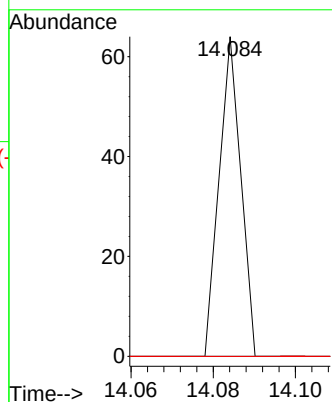
Tgt Ion: 75 Resp: 23

Ion Ratio Lower Upper

75 100

155 0.0 48.6 145.8#

157 0.0 62.7 188.2#



#95

Naphthalene

Concen: 6.634 ug/l

RT: 15.139 min Scan# 2201

Delta R.T. -0.006 min

Lab File: VY019947.D

Acq: 18 Oct 2024 12:50

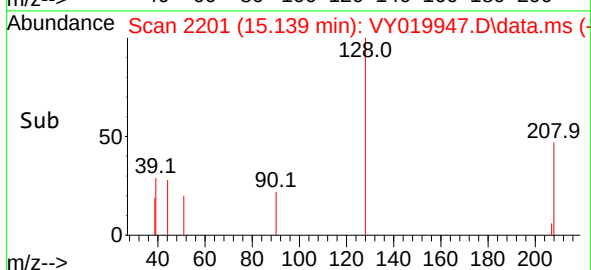
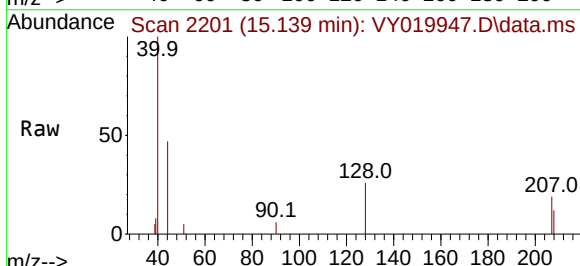
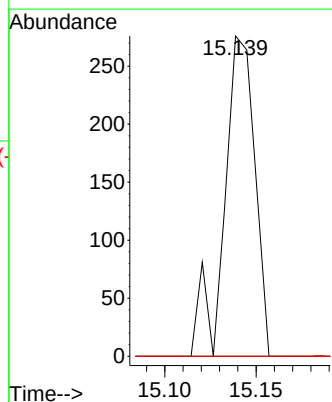
Tgt Ion: 128 Resp: 322

Ion Ratio Lower Upper

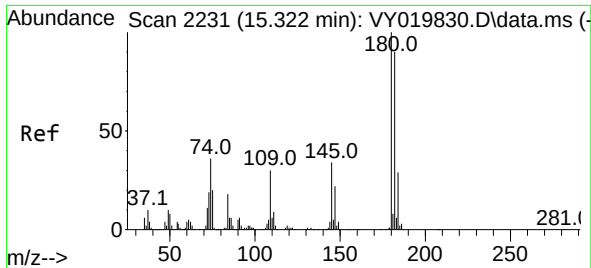
128 100

127 0.0 10.6 16.0#

129 0.0 8.6 13.0#

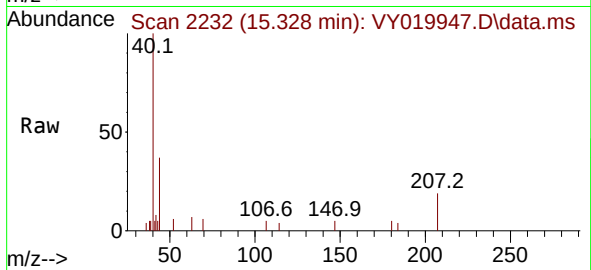






#96  
 1,2,3-Trichlorobenzene  
 Concen: 2.207 ug/l  
 RT: 15.328 min Scan# 21  
 Delta R.T. 0.000 min  
 Lab File: VY019947.D  
 Acq: 18 Oct 2024 12:50

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 62.5  | 47.6  | 142.9 |
| 145     | 0.0   | 15.4  | 46.1  |

