

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY020525\  
 Data File : VY021090.D  
 Acq On : 05 Feb 2025 15:48  
 Operator : SY/MD  
 Sample : Q1288-02  
 Misc : 5.00g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Feb 06 00:55:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020325S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Feb 03 13:08:38 2025  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 7.713  | 168  | 25282    | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.615  | 114  | 38336    | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.420 | 117  | 30061    | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.352 | 152  | 9445     | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 8.061  | 65    | 12701    | 49.032   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =    | 98.060%  |
| 35) Dibromofluoromethane    | 7.634  | 113   | 13087    | 53.268   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =    | 106.540% |
| 50) Toluene-d8              | 10.109 | 98    | 44791    | 47.888   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 134 | Recovery | =    | 95.780%  |
| 62) 4-Bromofluorobenzene    | 12.407 | 95    | 10653    | 34.863   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 30 - 143 | Recovery | =    | 69.720%  |

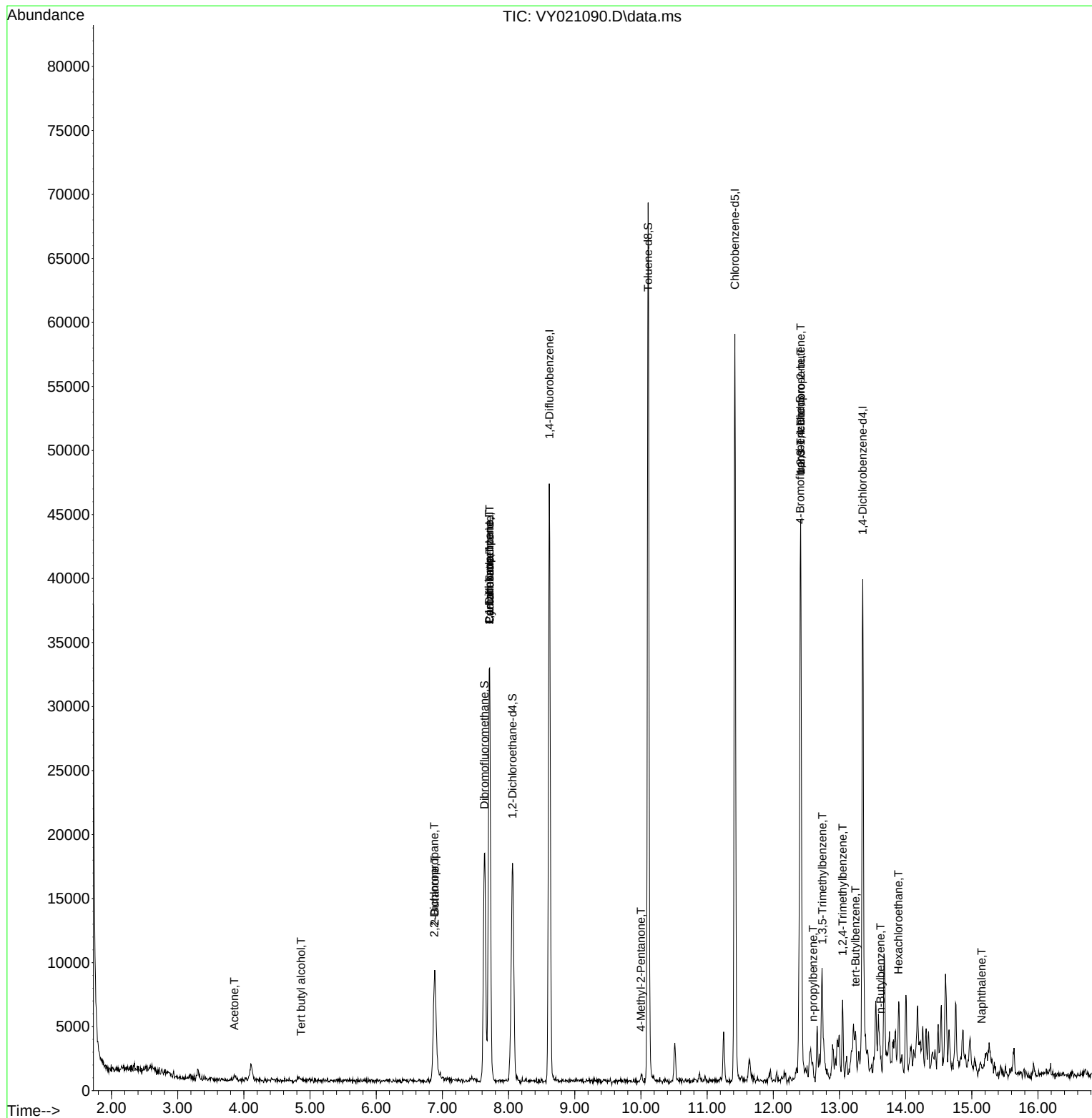
|                               |        |     |      |         |        |        |
|-------------------------------|--------|-----|------|---------|--------|--------|
| Target Compounds              |        |     |      |         |        | Qvalue |
| 11) Tert butyl alcohol        | 4.866  | 59  | 96   | 5.469   | ug/l # | 75     |
| 16) Acetone                   | 3.854  | 43  | 763  | 18.888  | ug/l   | 92     |
| 25) 2-Butanone                | 6.884  | 43  | 609  | 9.174   | ug/l # | 48     |
| 26) 2,2-Dichloropropane       | 6.878  | 77  | 472  | 1.040   | ug/l # | 52     |
| 31) Cyclohexane               | 7.713  | 56  | 605  | 1.369   | ug/l # | 46     |
| 36) 1,1-Dichloropropene       | 7.707  | 75  | 2269 | 6.235   | ug/l # | 47     |
| 38) Carbon Tetrachloride      | 7.713  | 117 | 2735 | 6.432   | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone      | 9.999  | 43  | 459  | 2.878   | ug/l   | 100    |
| 76) 1,2,3-Trichloropropane    | 12.413 | 75  | 5822 | 67.952  | ug/l # | 100    |
| 78) n-propylbenzene           | 12.602 | 91  | 911  | 1.037   | ug/l   | 92     |
| 80) 1,3,5-Trimethylbenzene    | 12.743 | 105 | 1030 | 1.722   | ug/l   | 99     |
| 81) trans-1,4-Dichloro-2-b... | 12.413 | 75  | 5822 | 138.655 | ug/l # | 13     |
| 83) tert-Butylbenzene         | 13.243 | 119 | 858  | 1.578   | ug/l   | 80     |
| 84) 1,2,4-Trimethylbenzene    | 13.047 | 105 | 2929 | 5.008   | ug/l   | 92     |
| 89) n-Butylbenzene            | 13.621 | 91  | 726  | 1.224   | ug/l # | 73     |
| 90) Hexachloroethane          | 13.889 | 117 | 335  | 2.470   | ug/l # | 17     |
| 95) Naphthalene               | 15.151 | 128 | 446  | 1.755   | ug/l # | 75     |

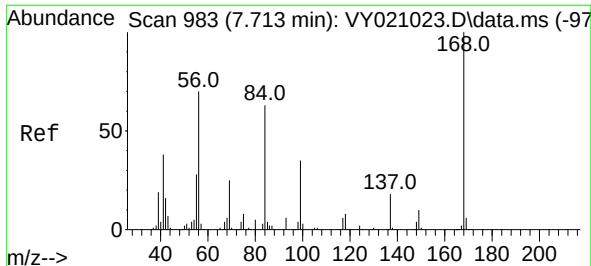
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Feb 06 00:55:39 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y020325S.M  
Quant Title : SW846 8260  
QLast Update : Mon Feb 03 13:08:38 2025  
Response via : Initial Calibration

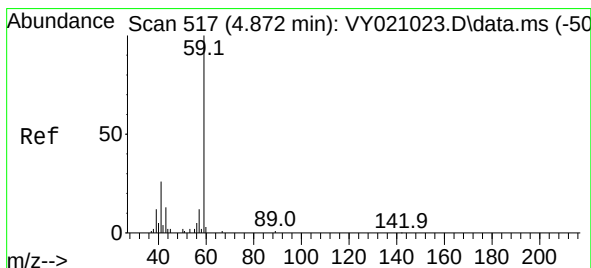
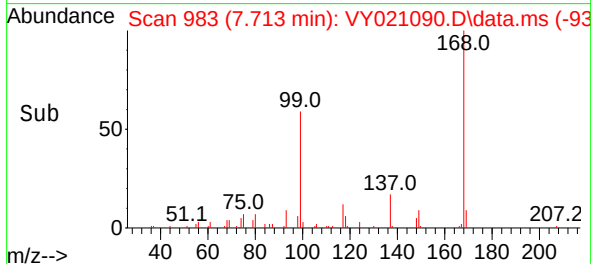
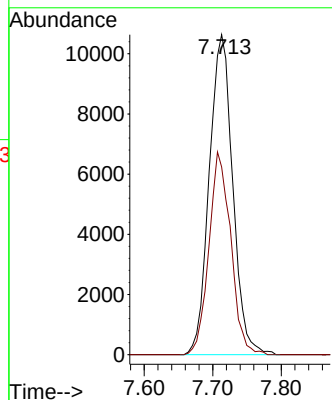
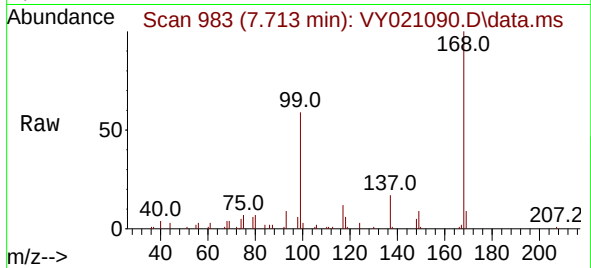




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.713 min Scan# 90  
Delta R.T. 0.000 min  
Lab File: VY021090.D  
Acq: 05 Feb 2025 15:48

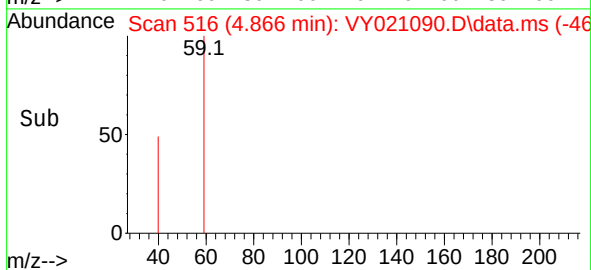
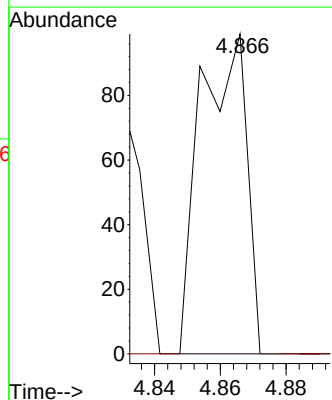
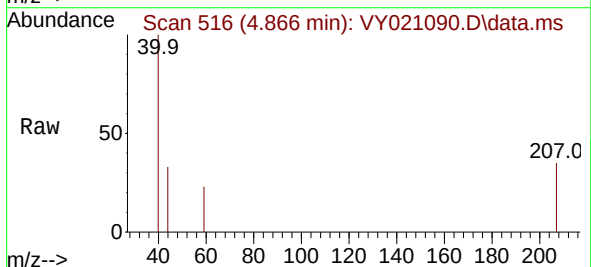
Instrument :  
MSVOA\_Y  
ClientSampleId :

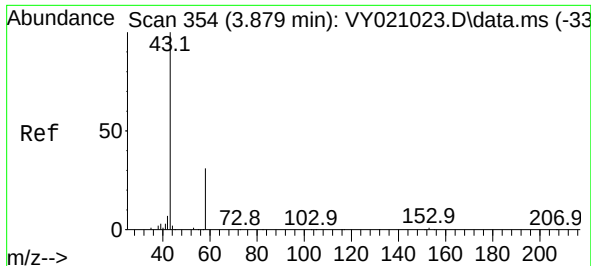
Tgt Ion:168 Resp: 25282  
Ion Ratio Lower Upper  
168 100  
99 58.7 44.2 66.4



#11  
Tert butyl alcohol  
Concen: 5.469 ug/l  
RT: 4.866 min Scan# 516  
Delta R.T. -0.007 min  
Lab File: VY021090.D  
Acq: 05 Feb 2025 15:48

Tgt Ion: 59 Resp: 96  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.4 11.0#





#16

Acetone

Concen: 18.888 ug/l

RT: 3.854 min Scan# 3

Delta R.T. -0.025 min

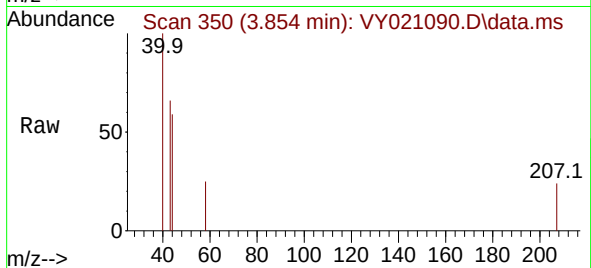
Lab File: VY021090.D

Acq: 05 Feb 2025 15:48

Instrument :

MSVOA\_Y

ClientSampleId :

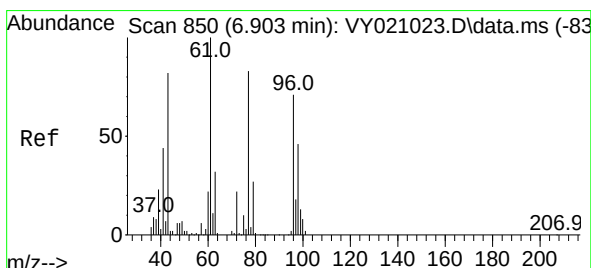
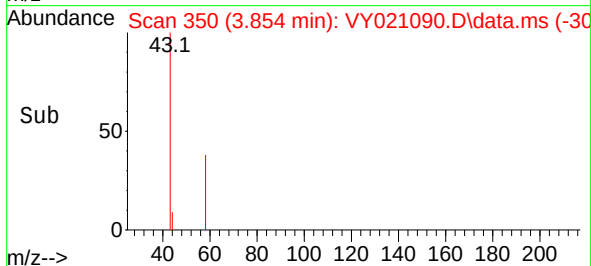
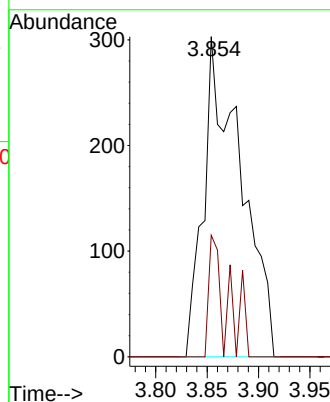


Tgt Ion: 43 Resp: 763

Ion Ratio Lower Upper

43 100

58 38.0 26.6 39.8



#25

2-Butanone

Concen: 9.174 ug/l

RT: 6.884 min Scan# 847

Delta R.T. -0.019 min

Lab File: VY021090.D

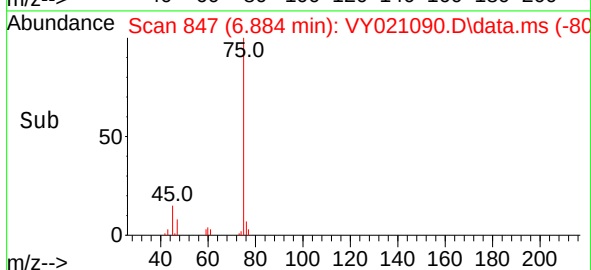
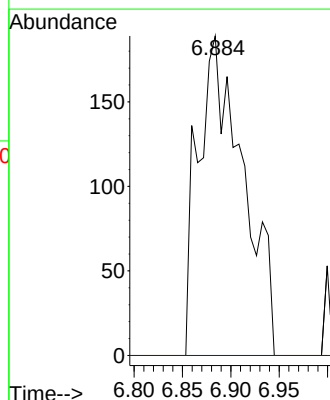
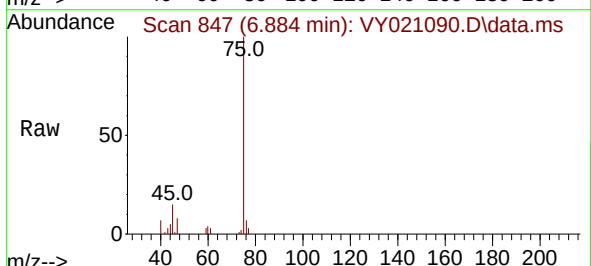
Acq: 05 Feb 2025 15:48

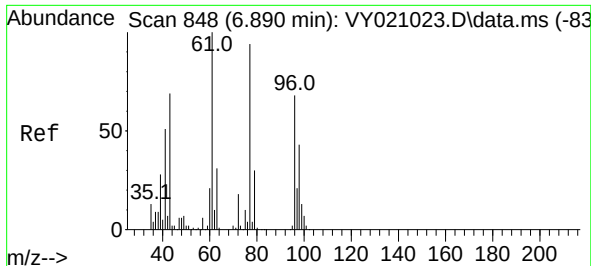
Tgt Ion: 43 Resp: 609

Ion Ratio Lower Upper

43 100

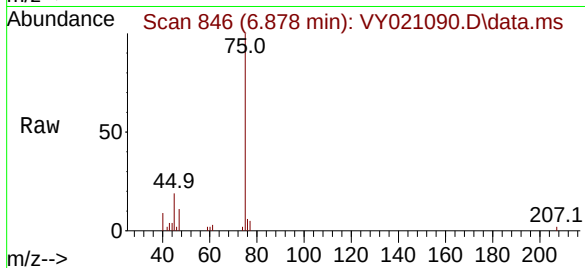
72 0.0 21.4 32.2#



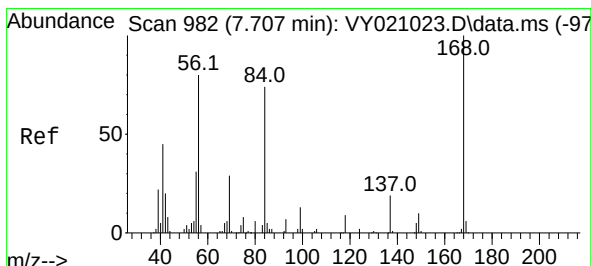
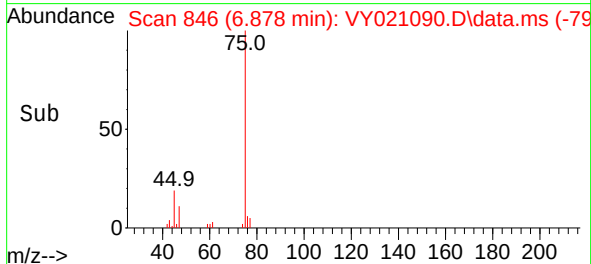
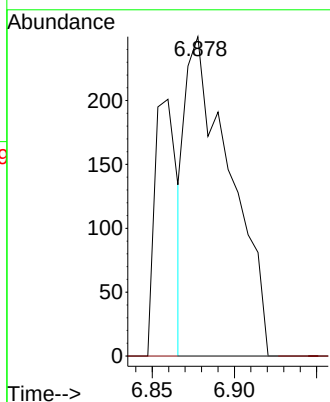


#26  
2,2-Dichloropropane  
Concen: 1.040 ug/l  
RT: 6.878 min Scan# 848  
Delta R.T. -0.013 min  
Lab File: VY021090.D  
Acq: 05 Feb 2025 15:48

Instrument :  
MSVOA\_Y  
ClientSampleId :

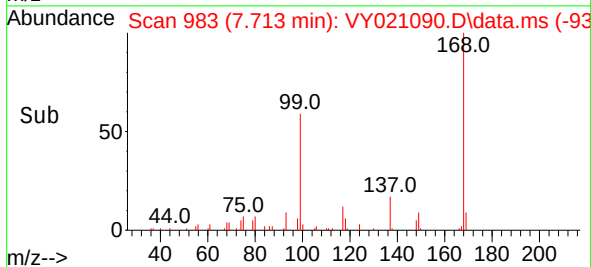
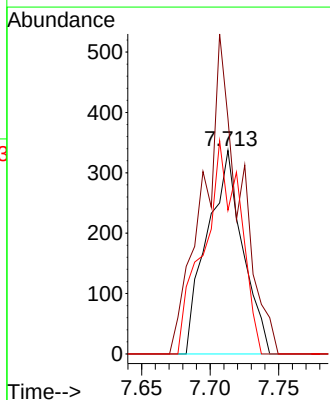
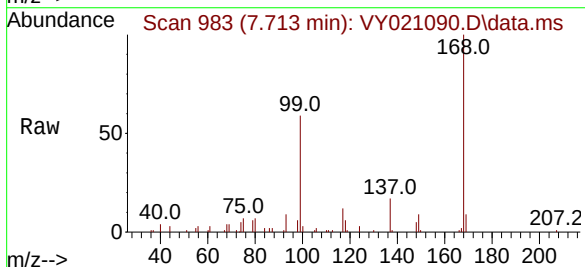


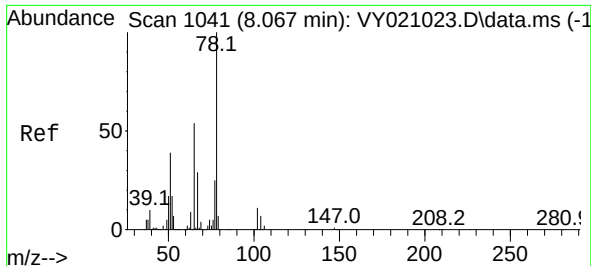
Tgt Ion: 77 Resp: 472  
Ion Ratio Lower Upper  
77 100  
97 0.0 11.7 35.0#



#31  
Cyclohexane  
Concen: 1.369 ug/l  
RT: 7.713 min Scan# 983  
Delta R.T. 0.006 min  
Lab File: VY021090.D  
Acq: 05 Feb 2025 15:48

Tgt Ion: 56 Resp: 605  
Ion Ratio Lower Upper  
56 100  
69 115.7 27.0 40.6#  
84 70.6 71.8 107.6#





#33

1,2-Dichloroethane-d4

Concen: 49.032 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.007 min

Lab File: VY021090.D

Acq: 05 Feb 2025 15:48

Instrument :

MSVOA\_Y

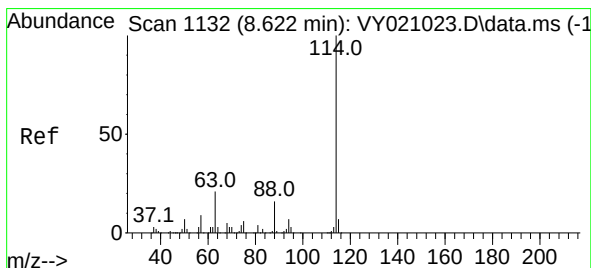
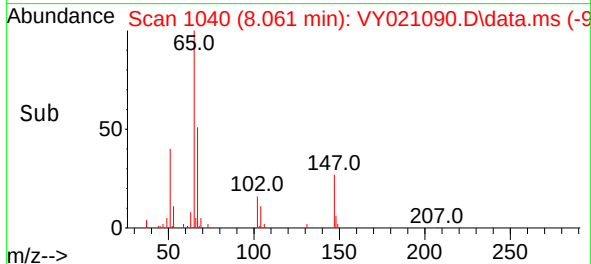
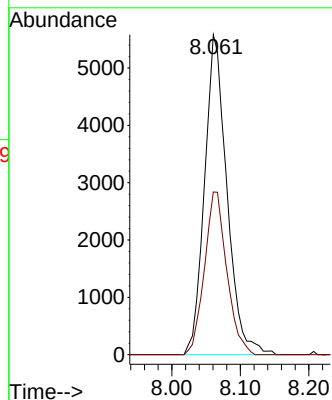
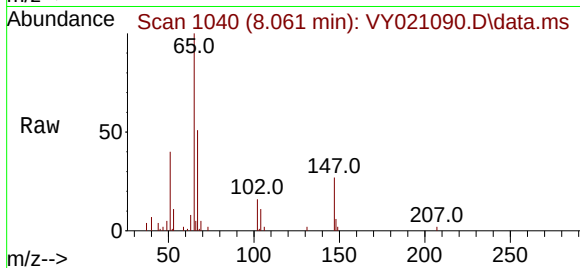
ClientSampleId :

Tgt Ion: 65 Resp: 12701

Ion Ratio Lower Upper

65 100

67 50.8 0.0 109.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.615 min Scan# 1131

Delta R.T. -0.007 min

Lab File: VY021090.D

Acq: 05 Feb 2025 15:48

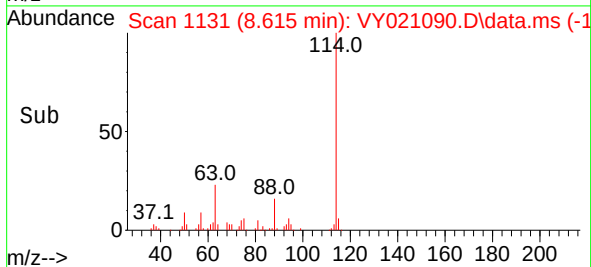
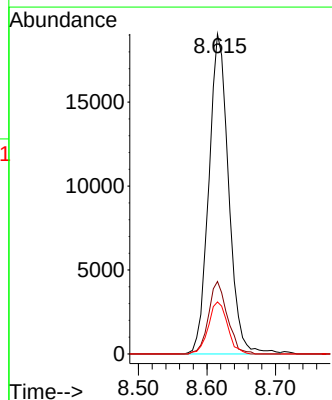
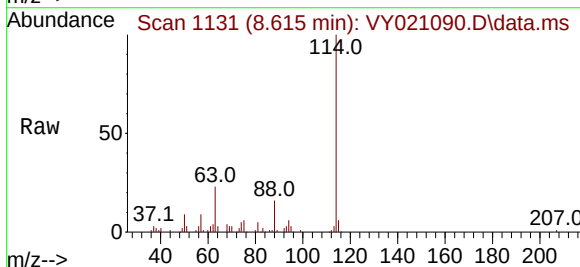
Tgt Ion: 114 Resp: 38336

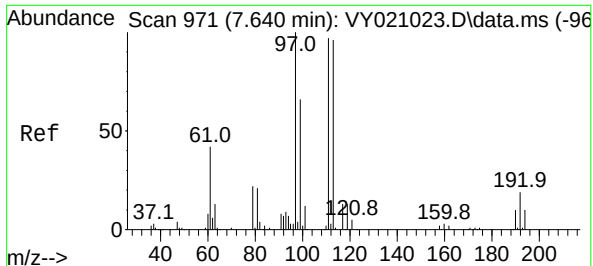
Ion Ratio Lower Upper

114 100

63 22.6 0.0 37.4

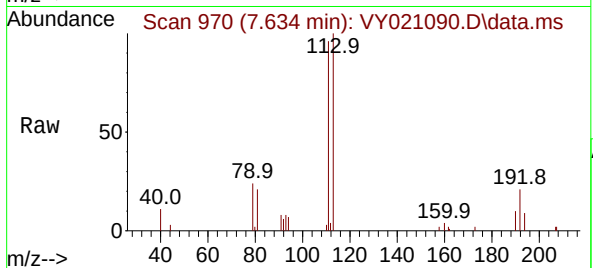
88 16.2 0.0 29.0



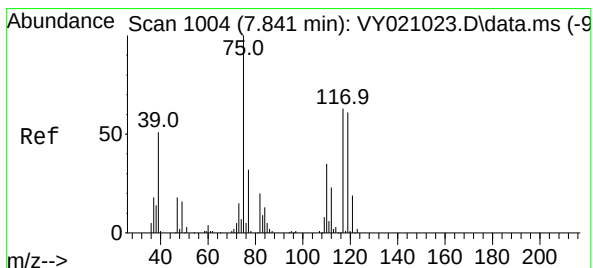
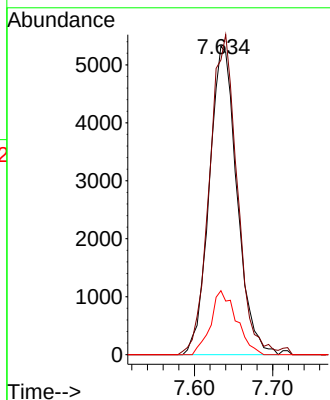
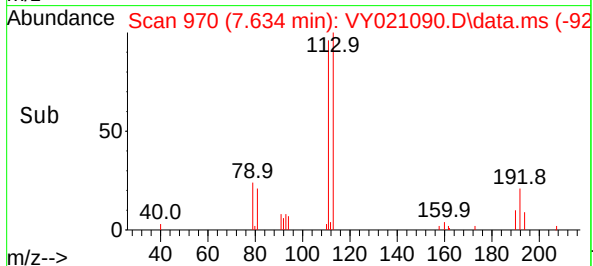


#35  
Dibromofluoromethane  
Concen: 53.268 ug/l  
RT: 7.634 min Scan# 91  
Delta R.T. -0.007 min  
Lab File: VY021090.D  
Acq: 05 Feb 2025 15:48

Instrument :  
MSVOA\_Y  
ClientSampleId :

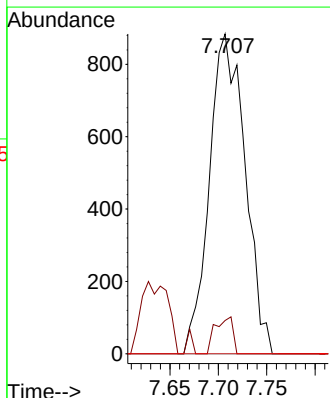
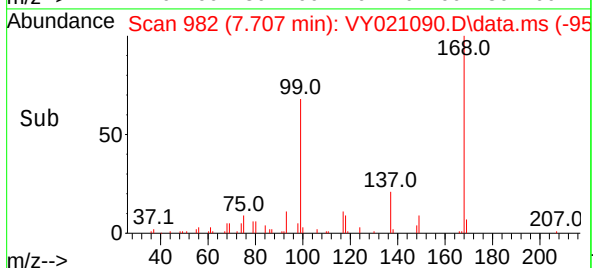
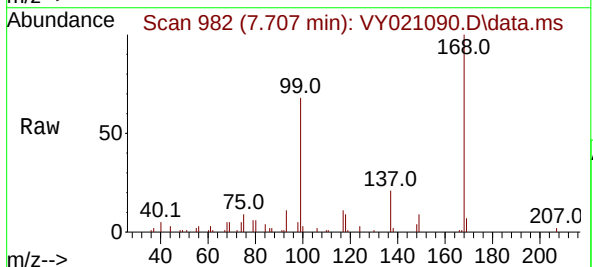


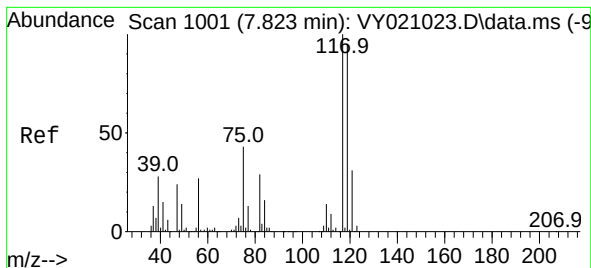
Tgt Ion:113 Resp: 13087  
Ion Ratio Lower Upper  
113 100  
111 103.5 83.8 125.6  
192 19.4 14.5 21.7



#36  
1,1-Dichloropropene  
Concen: 6.235 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. -0.135 min  
Lab File: VY021090.D  
Acq: 05 Feb 2025 15:48

Tgt Ion: 75 Resp: 2269  
Ion Ratio Lower Upper  
75 100  
110 5.6 17.4 52.3#  
77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.432 ug/l

RT: 7.713 min Scan# 91

Delta R.T. -0.110 min

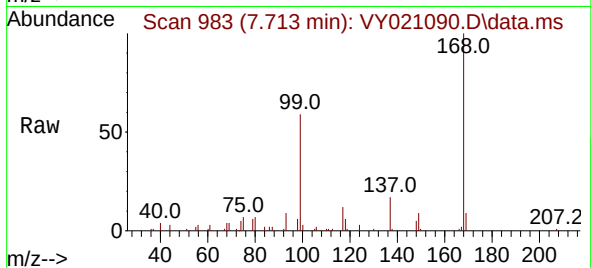
Lab File: VY021090.D

Acq: 05 Feb 2025 15:48

Instrument :

MSVOA\_Y

ClientSampleId :



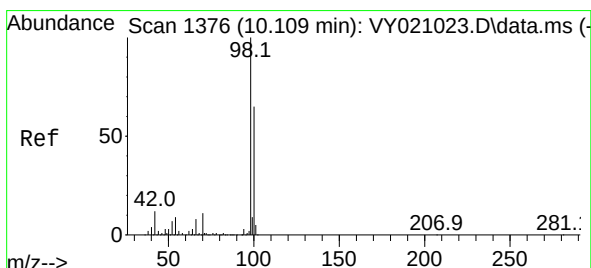
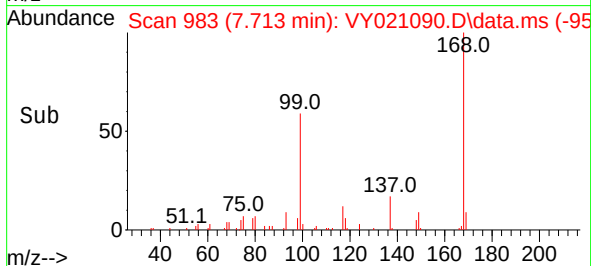
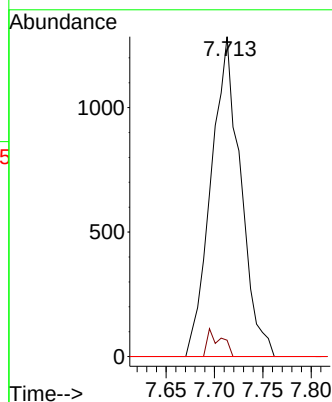
Tgt Ion:117 Resp: 2735

Ion Ratio Lower Upper

117 100

119 5.1 76.0 114.0#

121 0.0 24.2 36.2#



#50

Toluene-d8

Concen: 47.888 ug/l

RT: 10.109 min Scan# 1376

Delta R.T. -0.000 min

Lab File: VY021090.D

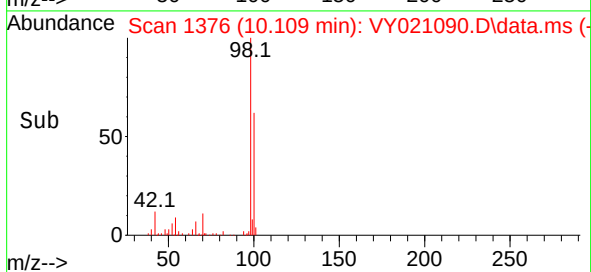
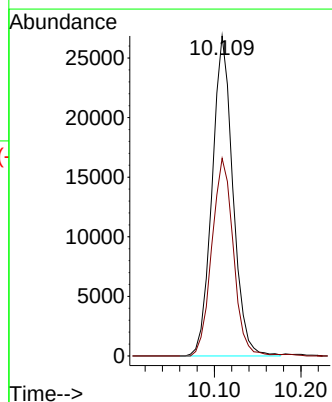
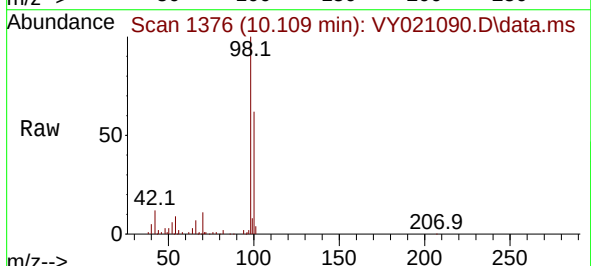
Acq: 05 Feb 2025 15:48

Tgt Ion: 98 Resp: 44791

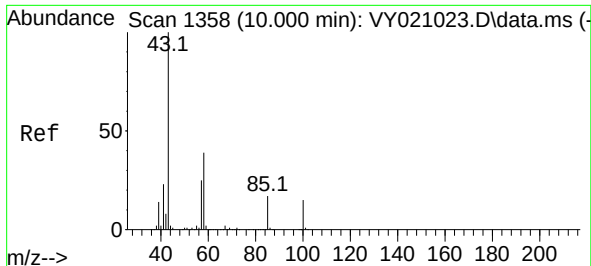
Ion Ratio Lower Upper

98 100

100 63.6 52.3 78.5



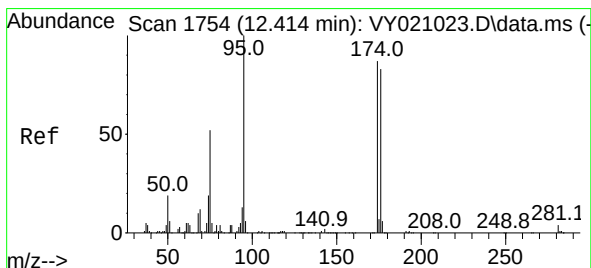
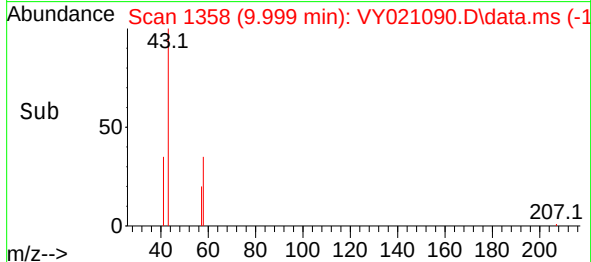
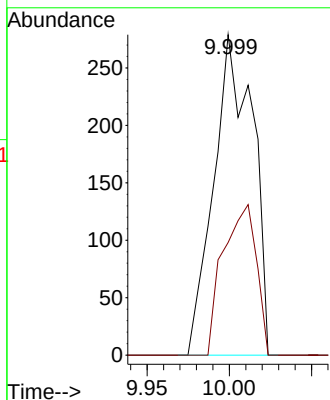
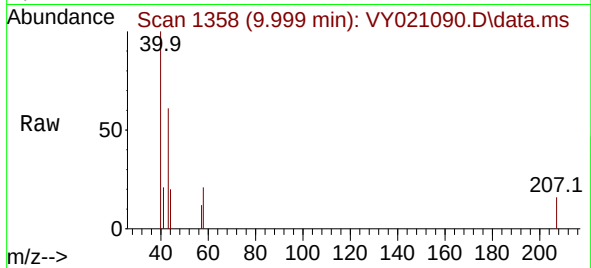




#51  
4-Methyl-2-Pentanone  
Concen: 2.878 ug/l  
RT: 9.999 min Scan# 1358  
Delta R.T. -0.000 min  
Lab File: VY021090.D  
Acq: 05 Feb 2025 15:48

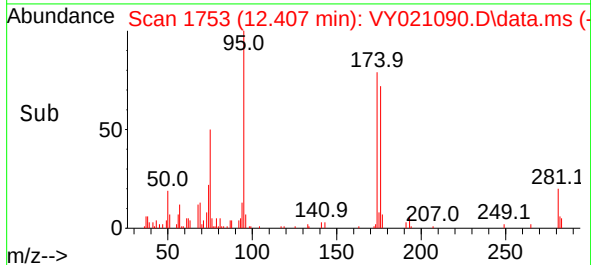
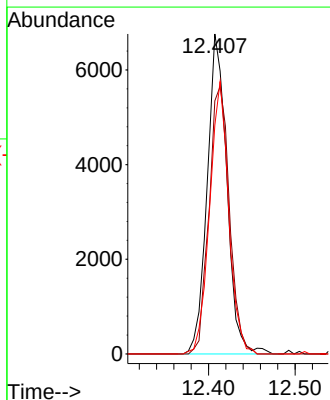
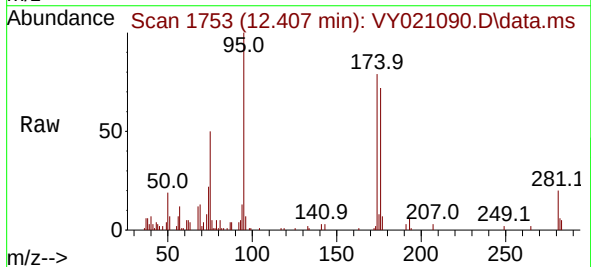
Instrument :  
MSVOA\_Y  
ClientSampleId :

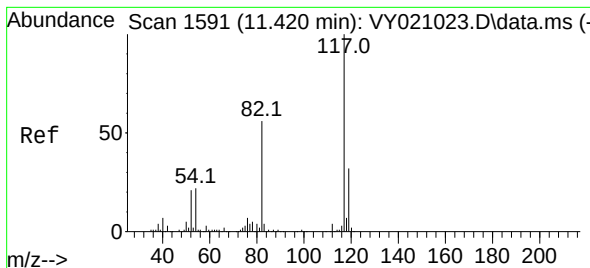
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Ion Ratio Lower Upper  
43 100  
58 40.1 32.2 48.2



#62  
4-Bromofluorobenzene  
Concen: 34.863 ug/l  
RT: 12.407 min Scan# 1753  
Delta R.T. -0.007 min  
Lab File: VY021090.D  
Acq: 05 Feb 2025 15:48

Tgt Ion: 95 Resp: 10653  
Ion Ratio Lower Upper  
95 100  
174 87.7 0.0 160.0  
176 82.5 0.0 151.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.420 min Scan# 1591

Delta R.T. -0.000 min

Lab File: VY021090.D

Acq: 05 Feb 2025 15:48

Instrument :

MSVOA\_Y

ClientSampleId :

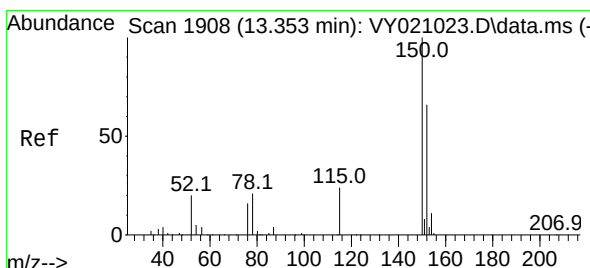
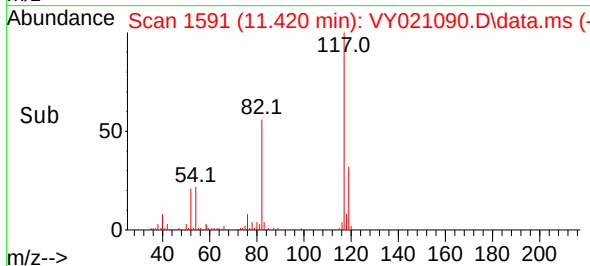
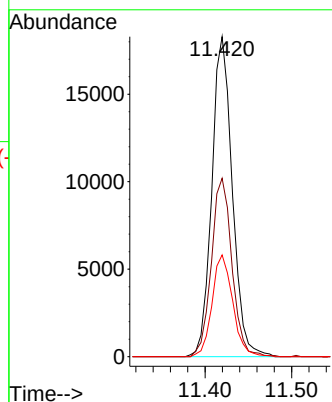
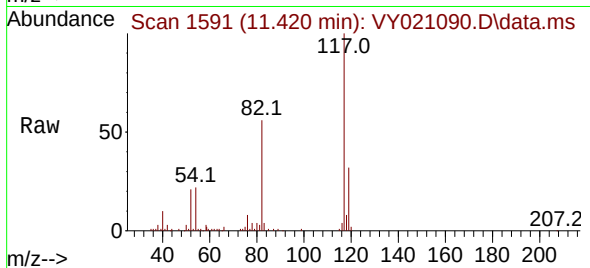
Tgt Ion:117 Resp: 30061

Ion Ratio Lower Upper

117 100

82 55.8 43.8 65.8

119 31.8 26.5 39.7



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.352 min Scan# 1908

Delta R.T. -0.000 min

Lab File: VY021090.D

Acq: 05 Feb 2025 15:48

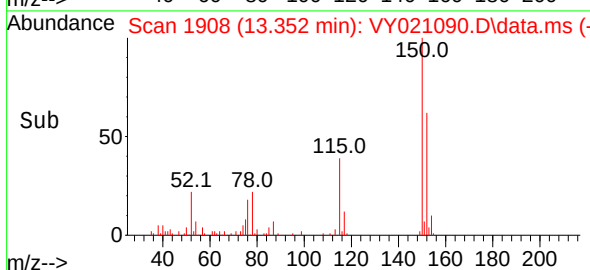
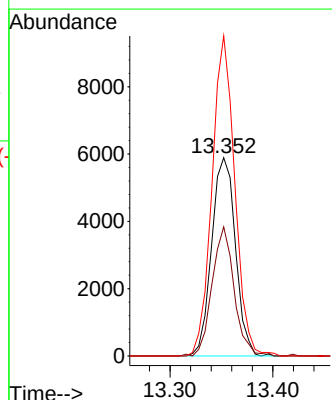
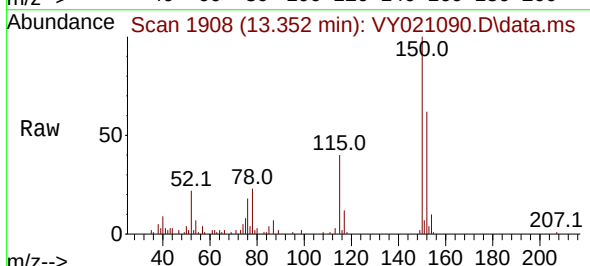
Tgt Ion:152 Resp: 9445

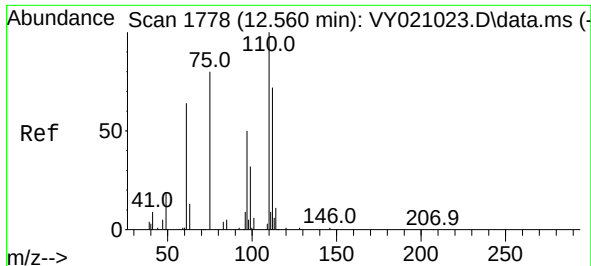
Ion Ratio Lower Upper

152 100

115 60.5 30.0 90.0

150 154.4 0.0 344.6





#76

1,2,3-Trichloropropane

Concen: 67.952 ug/l

RT: 12.413 min Scan# 1754

Delta R.T. -0.147 min

Lab File: VY021090.D

Acq: 05 Feb 2025 15:48

Instrument :

MSVOA\_Y

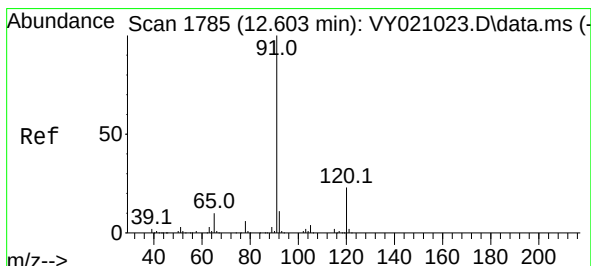
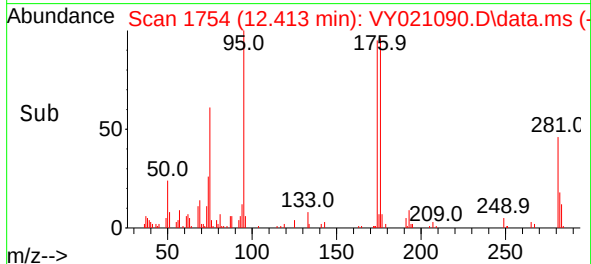
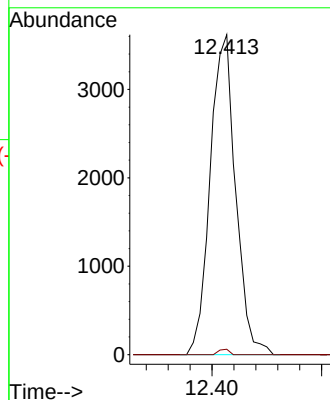
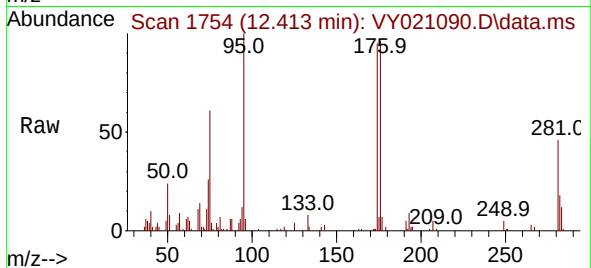
ClientSampleId :

Tgt Ion: 75 Resp: 5822

Ion Ratio Lower Upper

75 100

77 0.7 0.0 0.0#



#78

n-propylbenzene

Concen: 1.037 ug/l

RT: 12.602 min Scan# 1785

Delta R.T. -0.000 min

Lab File: VY021090.D

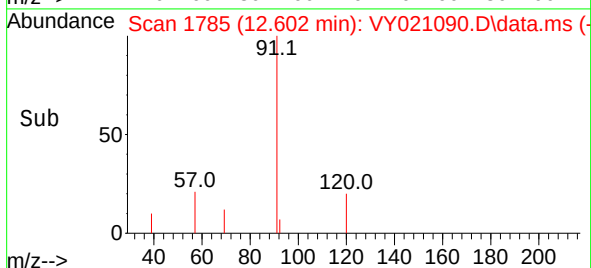
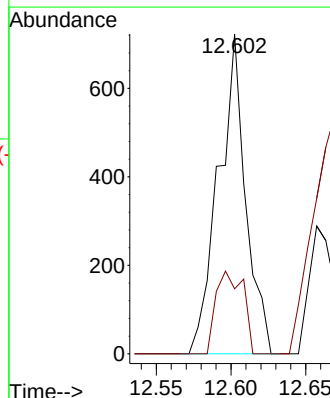
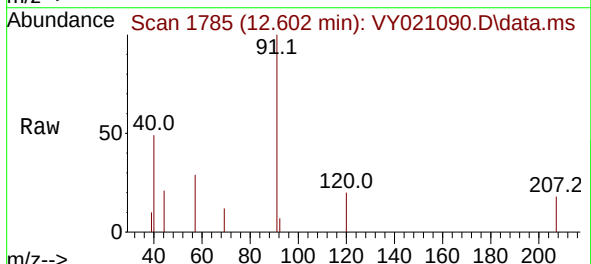
Acq: 05 Feb 2025 15:48

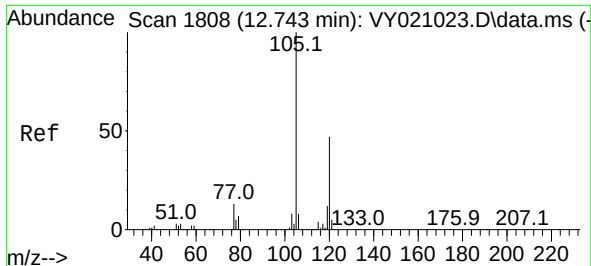
Tgt Ion: 91 Resp: 911

Ion Ratio Lower Upper

91 100

120 25.9 11.0 33.0

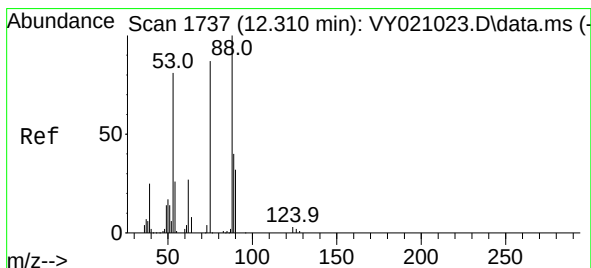
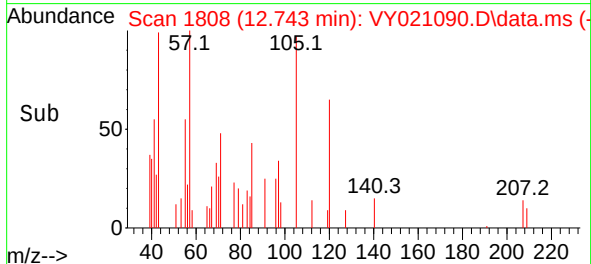
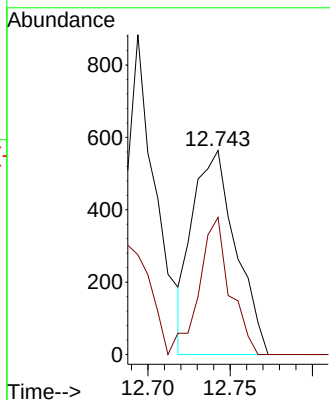
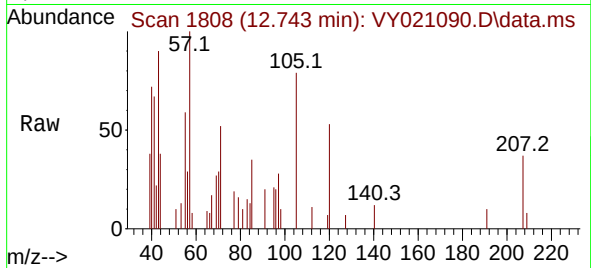




#80  
1,3,5-Trimethylbenzene  
Concen: 1.722 ug/l  
RT: 12.743 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VY021090.D  
Acq: 05 Feb 2025 15:48

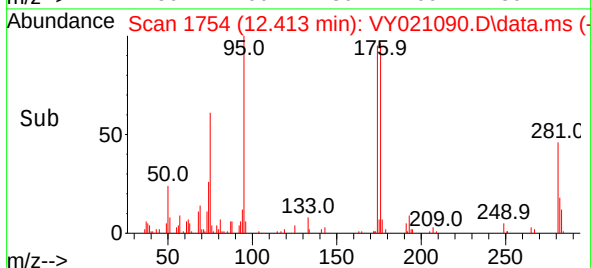
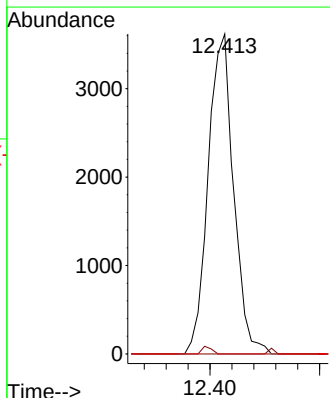
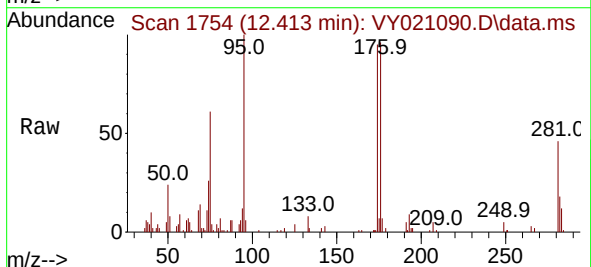
Instrument :  
MSVOA\_Y  
ClientSampleId :

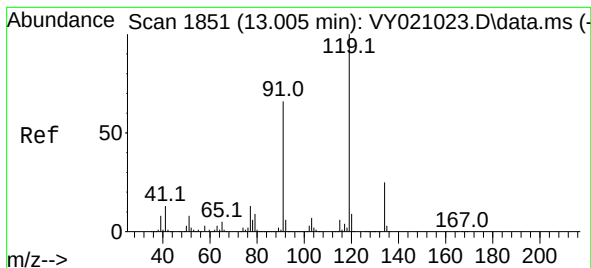
Tgt Ion:105 Resp: 1030  
Ion Ratio Lower Upper  
105 100  
120 48.0 24.3 72.8



#81  
trans-1,4-Dichloro-2-butene  
Concen: 138.655 ug/l  
RT: 12.413 min Scan# 1754  
Delta R.T. 0.103 min  
Lab File: VY021090.D  
Acq: 05 Feb 2025 15:48

Tgt Ion: 75 Resp: 5822  
Ion Ratio Lower Upper  
75 100  
53 0.9 74.0 111.0#  
89 0.0 36.5 54.7#





#83

tert-Butylbenzene

Concen: 1.578 ug/l

RT: 13.243 min Scan# 119

Delta R.T. 0.237 min

Lab File: VY021090.D

Acq: 05 Feb 2025 15:48

Instrument :

MSVOA\_Y

ClientSampleId :

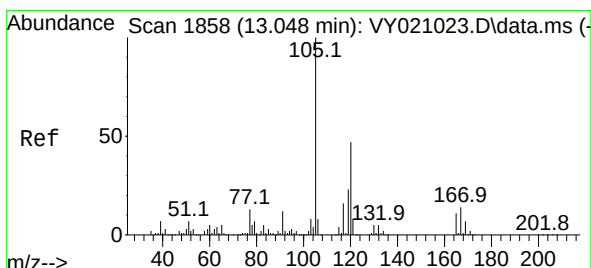
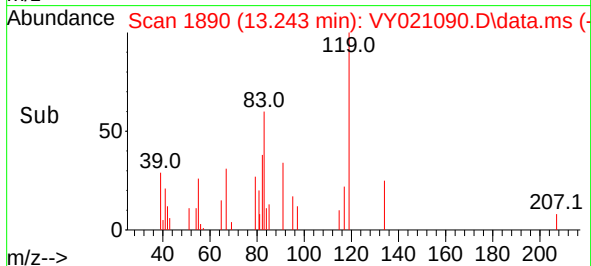
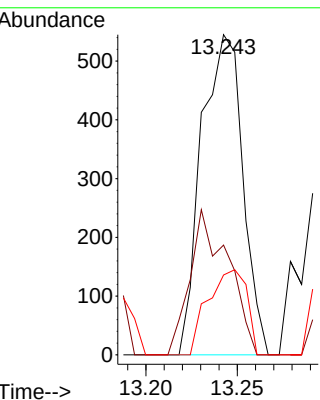
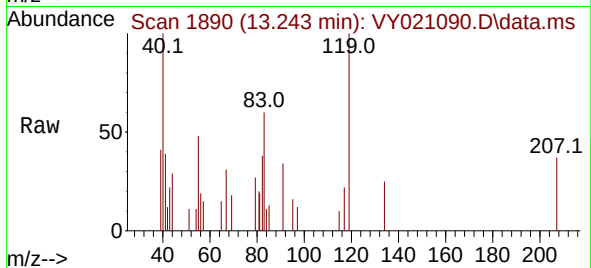
Tgt Ion:119 Resp: 858

Ion Ratio Lower Upper

119 100

91 42.2 31.5 94.5

134 24.9 13.1 39.3



#84

1,2,4-Trimethylbenzene

Concen: 5.008 ug/l

RT: 13.047 min Scan# 1858

Delta R.T. -0.000 min

Lab File: VY021090.D

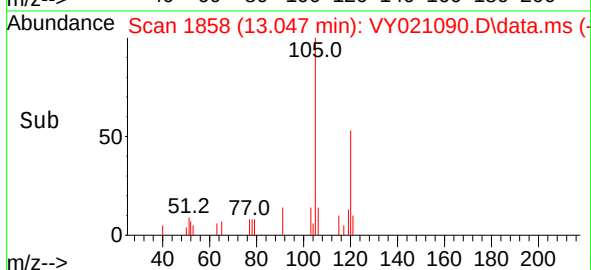
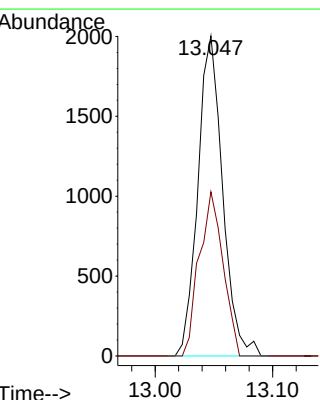
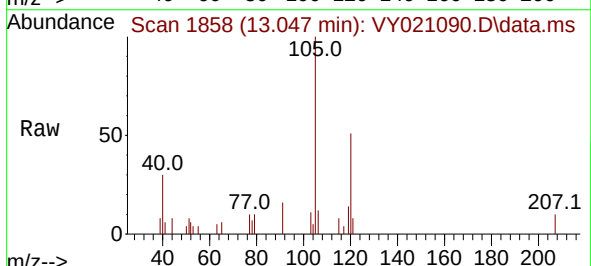
Acq: 05 Feb 2025 15:48

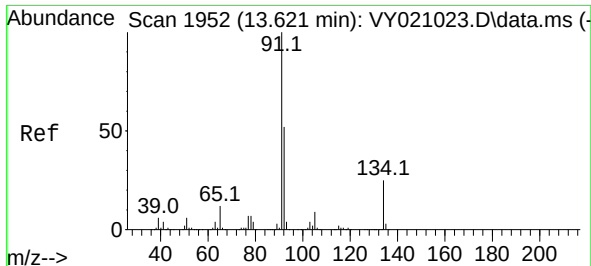
Tgt Ion:105 Resp: 2929

Ion Ratio Lower Upper

105 100

120 49.4 22.1 66.3





#89

n-Butylbenzene

Concen: 1.224 ug/l

RT: 13.621 min Scan# 1952

Delta R.T. -0.000 min

Lab File: VY021090.D

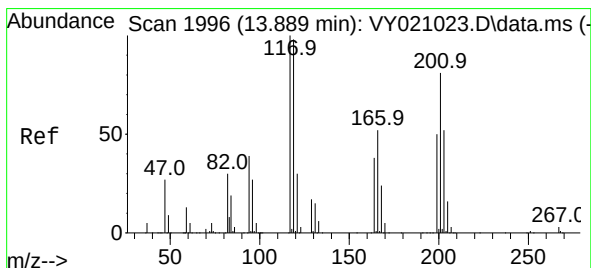
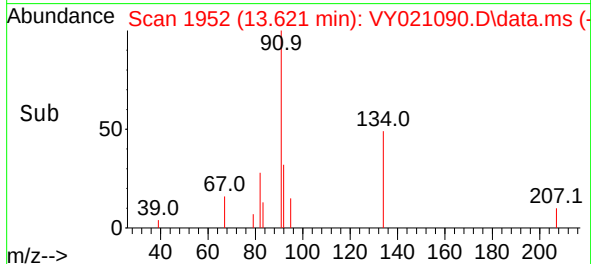
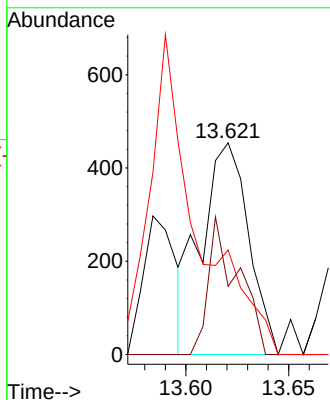
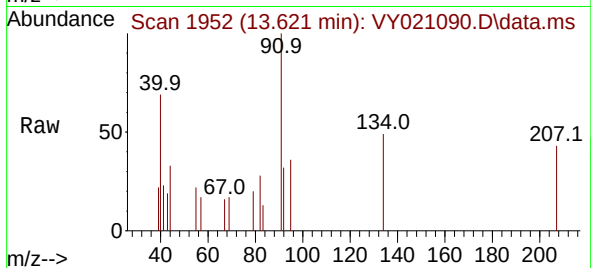
Acq: 05 Feb 2025 15:48

Instrument :

MSVOA\_Y

ClientSampleId :

|             |                |
|-------------|----------------|
| Tgt Ion: 91 | Resp: 726      |
| Ion Ratio   | Lower Upper    |
| 91          | 100            |
| 92          | 40.8 26.4 79.2 |
| 134         | 0.0 12.3 36.8# |



#90

Hexachloroethane

Concen: 2.470 ug/l

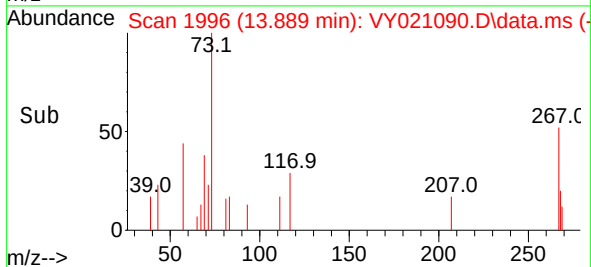
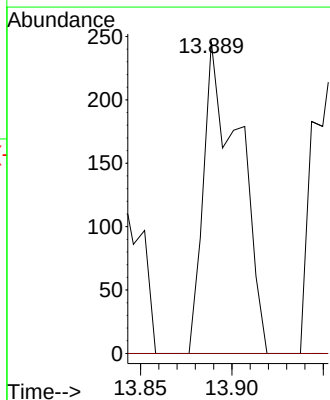
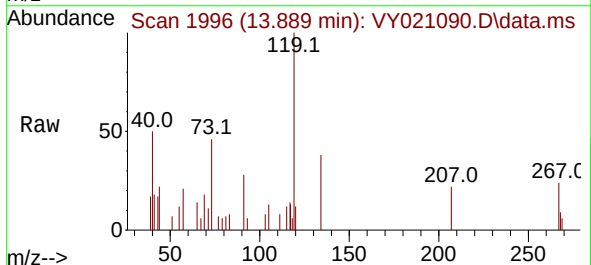
RT: 13.889 min Scan# 1996

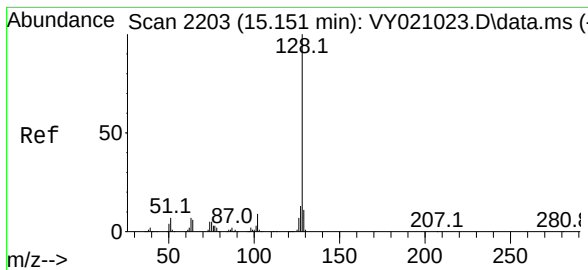
Delta R.T. -0.000 min

Lab File: VY021090.D

Acq: 05 Feb 2025 15:48

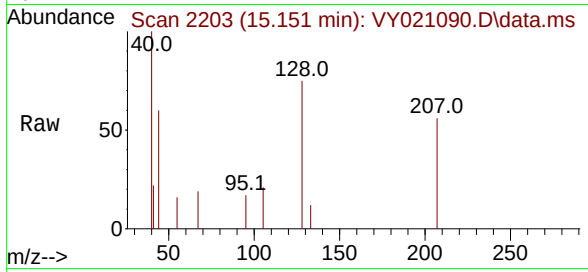
|              |                 |
|--------------|-----------------|
| Tgt Ion: 117 | Resp: 335       |
| Ion Ratio    | Lower Upper     |
| 117          | 100             |
| 201          | 0.0 33.4 100.1# |





#95  
 Naphthalene  
 Concen: 1.755 ug/l  
 RT: 15.151 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VY021090.D  
 Acq: 05 Feb 2025 15:48

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 446   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.2  | 15.4# |
| 129      | 4.3   | 8.6   | 12.8# |

