

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY022825\  
 Data File : VY021392.D  
 Acq On : 28 Feb 2025 19:49  
 Operator : SY/MD  
 Sample : Q1463-04  
 Misc : 6.27g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 T4

Quant Time: Feb 28 22:25:00 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022525S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 26 02:09:13 2025  
 Response via : Initial Calibration

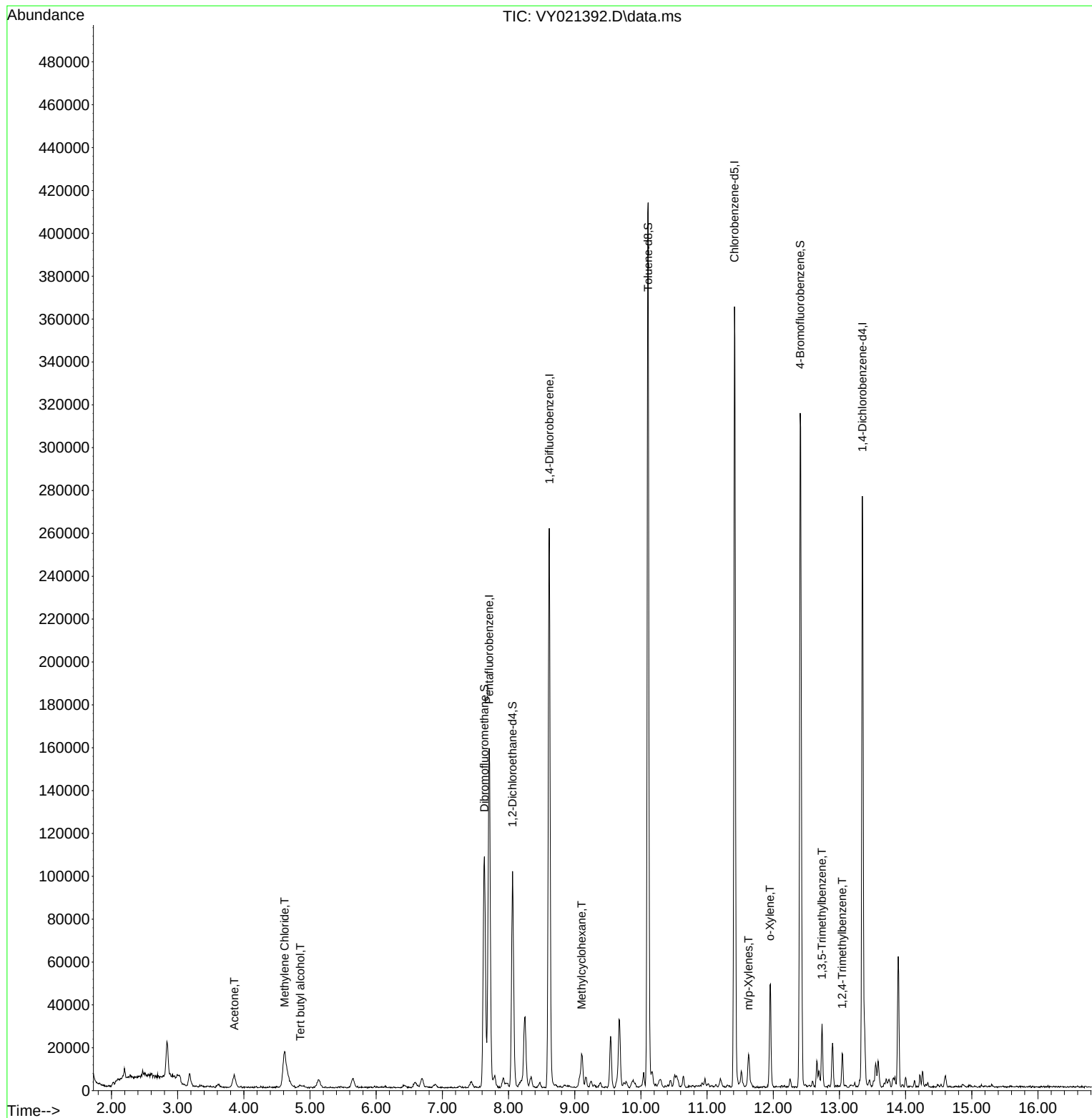
| Compound                    | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|-----------|-------|----------|----------|------------|----------|
| -----                       |           |       |          |          |            |          |
| Internal Standards          |           |       |          |          |            |          |
| 1) Pentafluorobenzene       | 7.707     | 168   | 112661   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.616     | 114   | 213094   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 11.414    | 117   | 188811   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.347    | 152   | 64962    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 8.061     | 65    | 76713    | 60.024   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 50 - 163 | Recovery | = 120.040% |          |
| 35) Dibromofluoromethane    | 7.634     | 113   | 77011    | 55.124   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 54 - 147 | Recovery | = 110.240% |          |
| 50) Toluene-d8              | 10.109    | 98    | 260343   | 48.218   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 58 - 134 | Recovery | = 96.440%  |          |
| 62) 4-Bromofluorobenzene    | 12.408    | 95    | 74618    | 41.064   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 30 - 143 | Recovery | = 82.120%  |          |
| Target Compounds            |           |       |          |          |            |          |
|                             |           |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol      | 4.854     | 59    | 1908     | 19.409   | ug/l #     | 89       |
| 16) Acetone                 | 3.854     | 43    | 3874     | 15.802   | ug/l #     | 62       |
| 20) Methylene Chloride      | 4.616     | 84    | 10245    | 7.728    | ug/l       | 88       |
| 39) Methylcyclohexane       | 9.103     | 83    | 4800     | 1.808    | ug/l       | 94       |
| 68) m/p-Xylenes             | 11.627    | 106   | 4738     | 1.678    | ug/l       | 88       |
| 69) o-Xylene                | 11.950    | 106   | 12177    | 4.603    | ug/l       | 100      |
| 80) 1,3,5-Trimethylbenzene  | 12.737    | 105   | 12877    | 3.215    | ug/l       | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.042    | 105   | 7925     | 1.989    | ug/l       | 99       |
| -----                       |           |       |          |          |            |          |

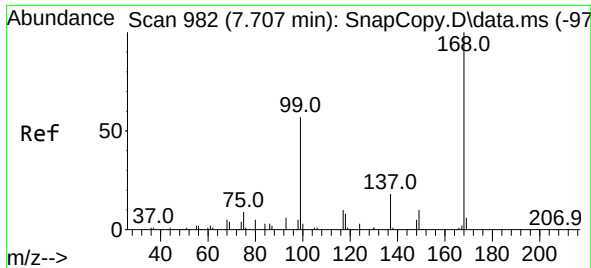
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y022525S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 26 02:09:13 2025  
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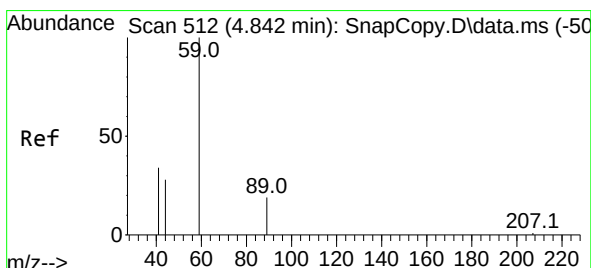
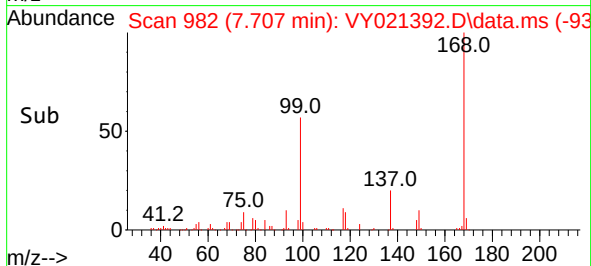
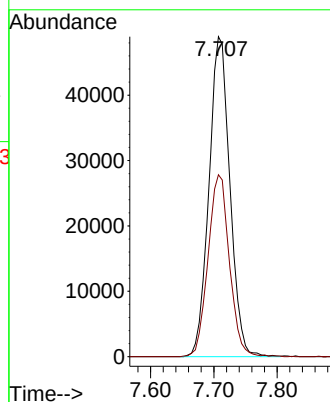
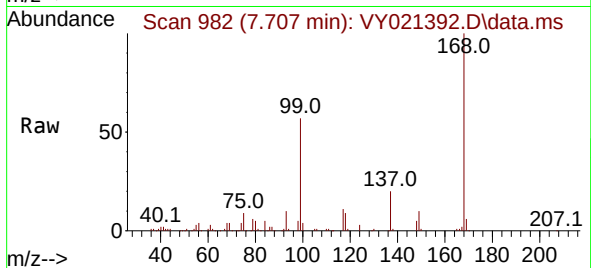




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY021392.D  
Acq: 28 Feb 2025 19:49

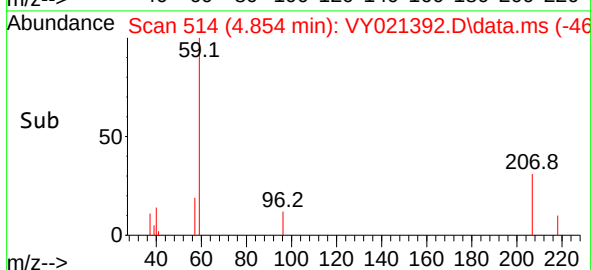
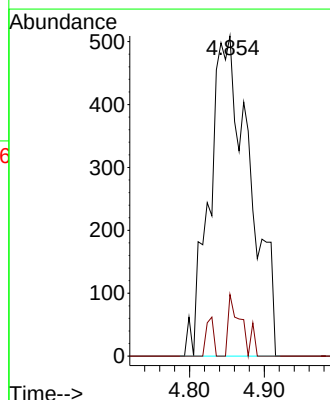
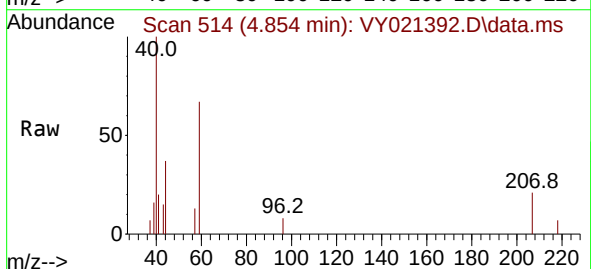
Instrument :  
MSVOA\_Y  
ClientSampleId :  
T4

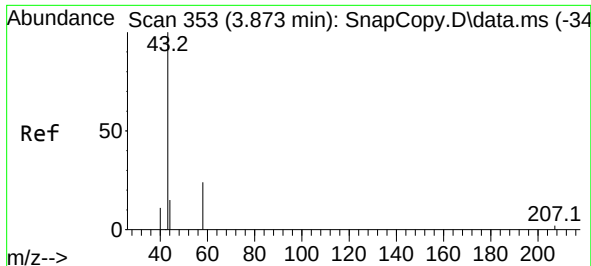
Tgt Ion:168 Resp: 112661  
Ion Ratio Lower Upper  
168 100  
99 56.8 47.1 70.7



#11  
Tert butyl alcohol  
Concen: 19.409 ug/l  
RT: 4.854 min Scan# 514  
Delta R.T. 0.000 min  
Lab File: VY021392.D  
Acq: 28 Feb 2025 19:49

Tgt Ion: 59 Resp: 1908  
Ion Ratio Lower Upper  
59 100  
57 6.3 8.3 12.5#

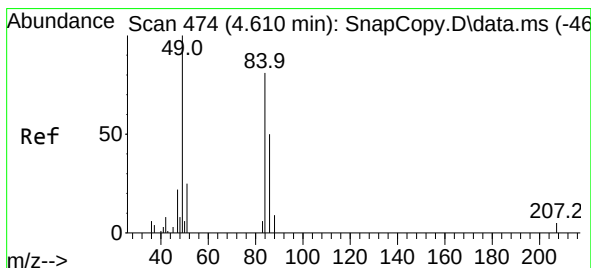
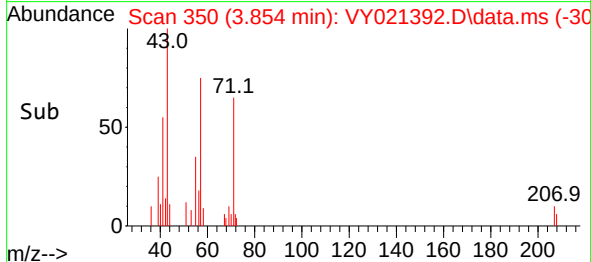
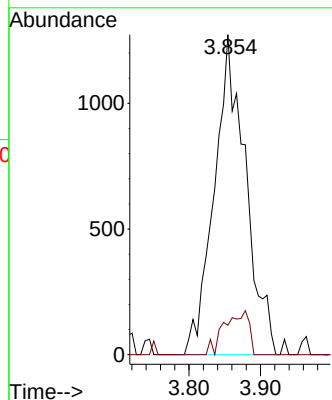
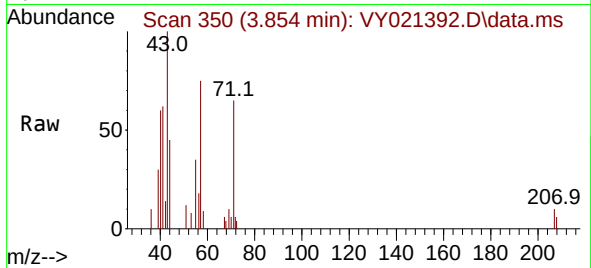




#16  
Acetone  
Concen: 15.802 ug/l  
RT: 3.854 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: VY021392.D  
Acq: 28 Feb 2025 19:49

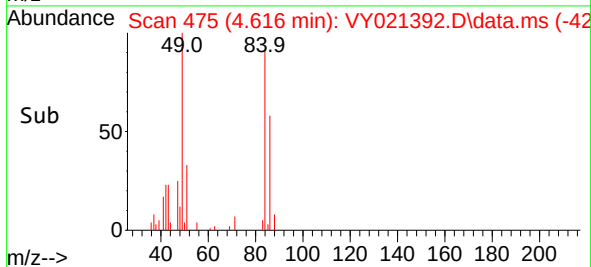
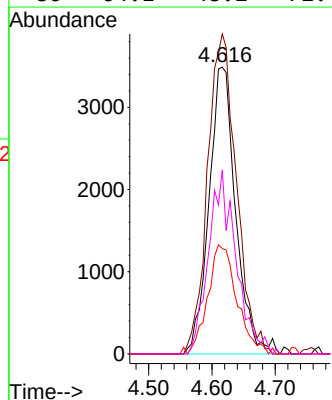
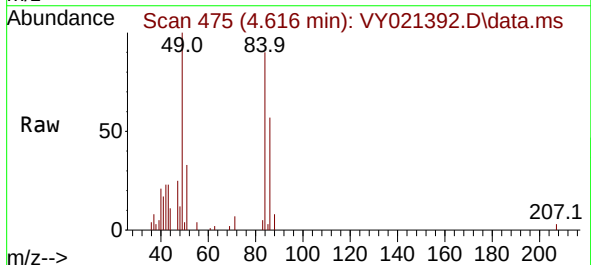
Instrument :  
MSVOA\_Y  
ClientSampleId :  
T4

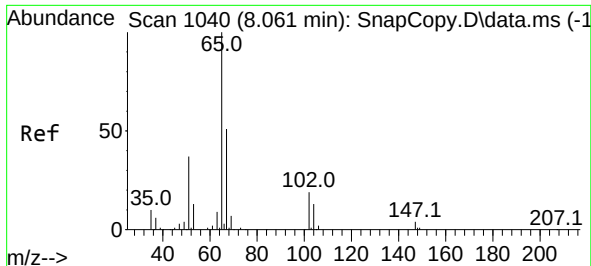
Tgt Ion: 43 Resp: 3874  
Ion Ratio Lower Upper  
43 100  
58 9.2 23.5 35.3#



#20  
Methylene Chloride  
Concen: 7.728 ug/l  
RT: 4.616 min Scan# 475  
Delta R.T. 0.006 min  
Lab File: VY021392.D  
Acq: 28 Feb 2025 19:49

Tgt Ion: 84 Resp: 10245  
Ion Ratio Lower Upper  
84 100  
49 111.5 105.1 157.7  
51 36.8 31.0 46.4  
86 64.1 48.2 72.4





#33

1,2-Dichloroethane-d4

Concen: 60.024 ug/l

RT: 8.061 min Scan# 110

Delta R.T. 0.000 min

Lab File: VY021392.D

Acq: 28 Feb 2025 19:49

Instrument :

MSVOA\_Y

ClientSampleId :

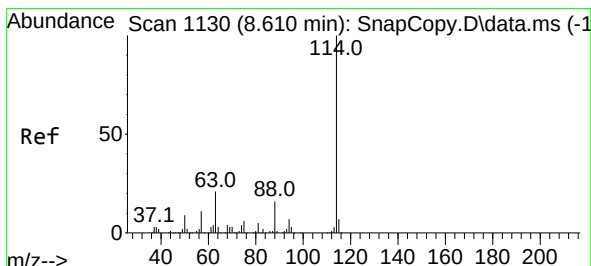
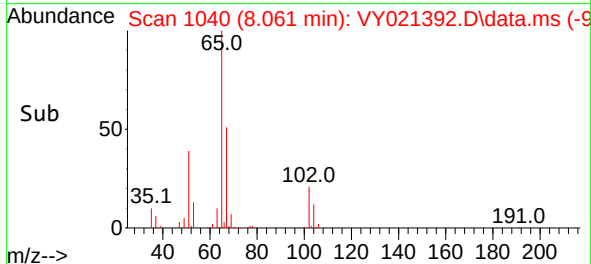
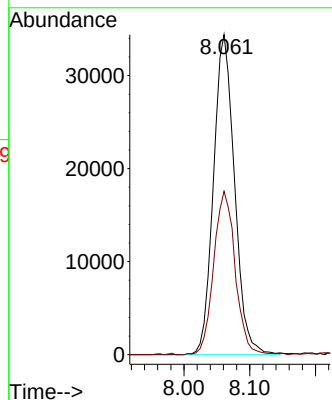
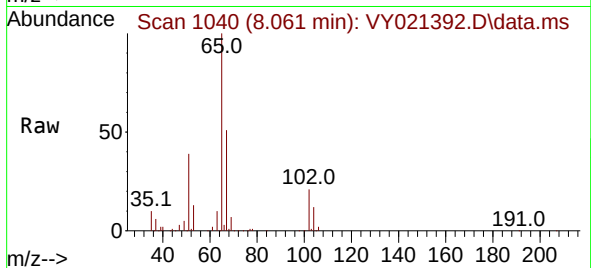
T4

Tgt Ion: 65 Resp: 76713

Ion Ratio Lower Upper

65 100

67 51.9 0.0 103.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY021392.D

Acq: 28 Feb 2025 19:49

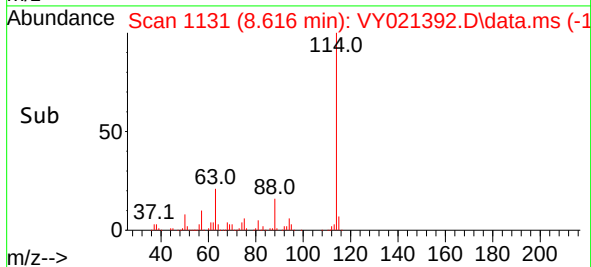
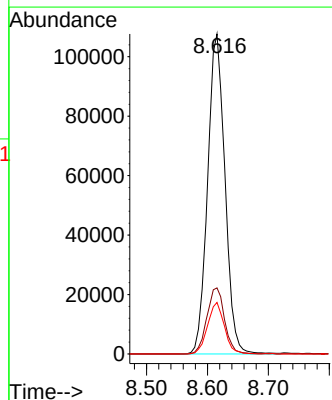
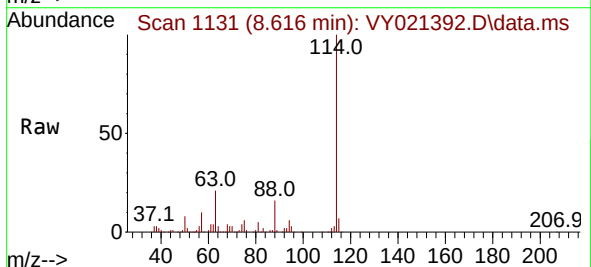
Tgt Ion: 114 Resp: 213094

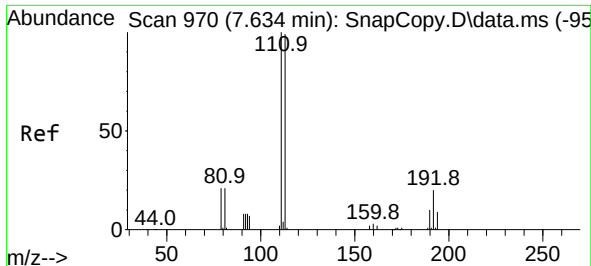
Ion Ratio Lower Upper

114 100

63 20.6 0.0 42.2

88 16.1 0.0 29.8

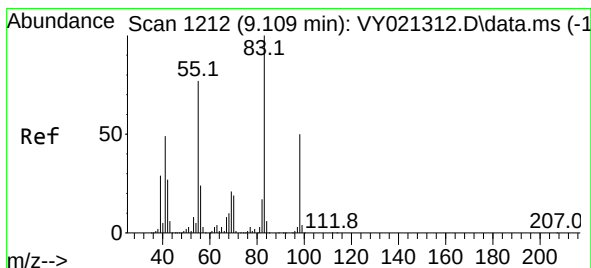
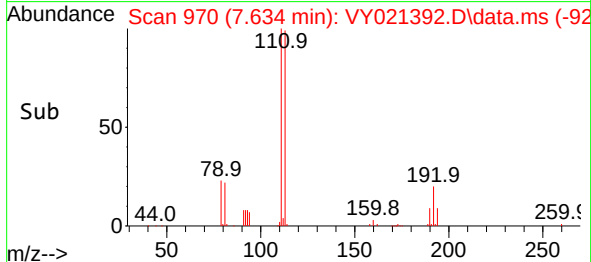
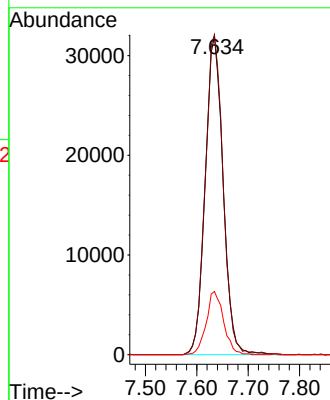
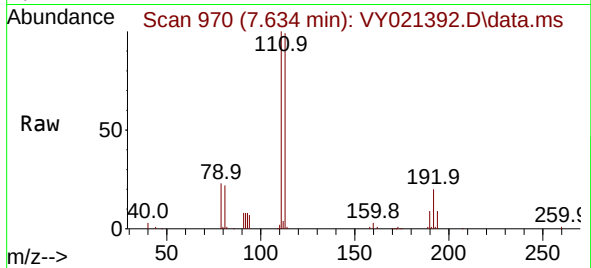




#35  
Dibromofluoromethane  
Concen: 55.124 ug/l  
RT: 7.634 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VY021392.D  
Acq: 28 Feb 2025 19:49

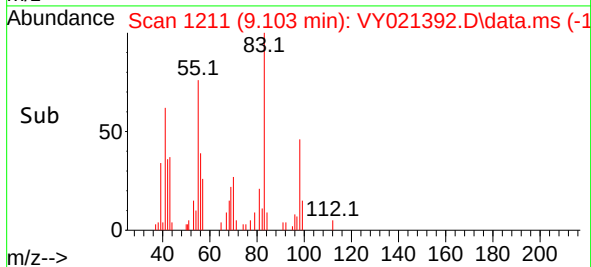
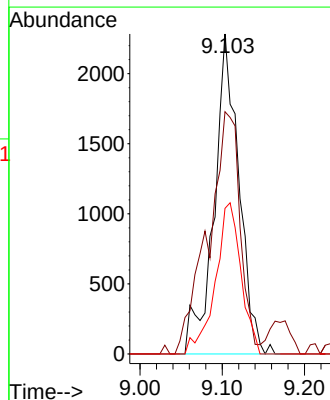
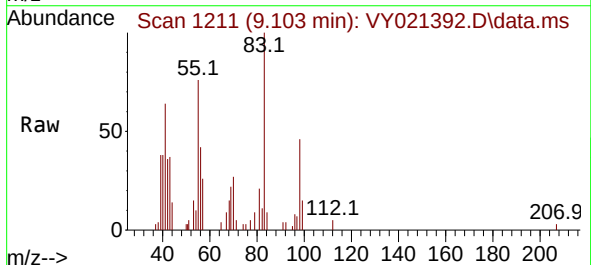
Instrument :  
MSVOA\_Y  
ClientSampleId :  
T4

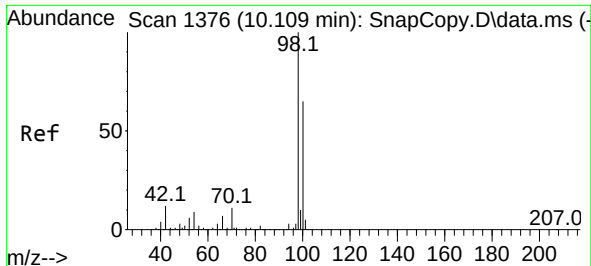
Tgt Ion:113 Resp: 77011  
Ion Ratio Lower Upper  
113 100  
111 101.0 81.0 121.6  
192 19.4 15.8 23.8



#39  
Methylcyclohexane  
Concen: 1.808 ug/l  
RT: 9.103 min Scan# 1211  
Delta R.T. -0.006 min  
Lab File: VY021392.D  
Acq: 28 Feb 2025 19:49

Tgt Ion: 83 Resp: 4800  
Ion Ratio Lower Upper  
83 100  
55 71.6 61.3 91.9  
98 45.5 39.9 59.9

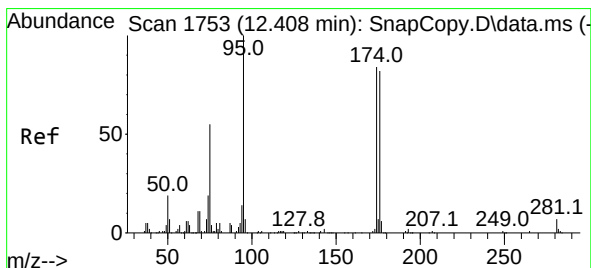
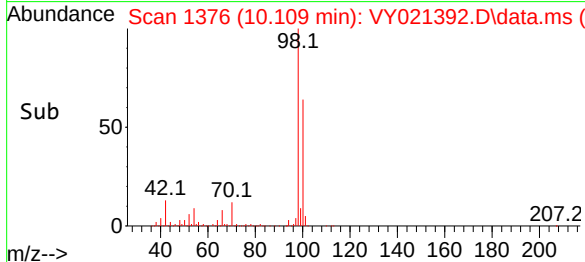
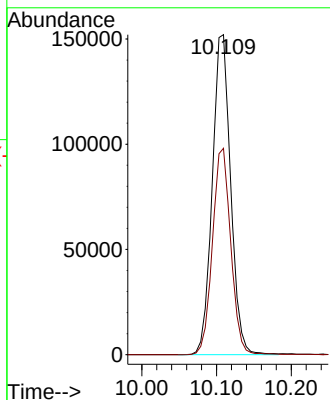
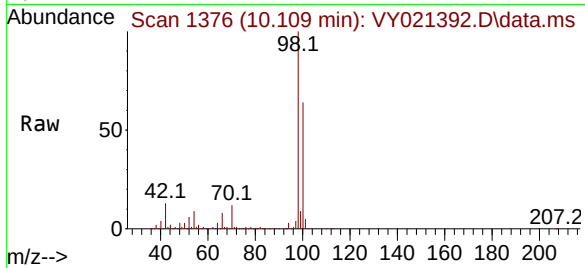




#50  
Toluene-d8  
Concen: 48.218 ug/l  
RT: 10.109 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY021392.D  
Acq: 28 Feb 2025 19:49

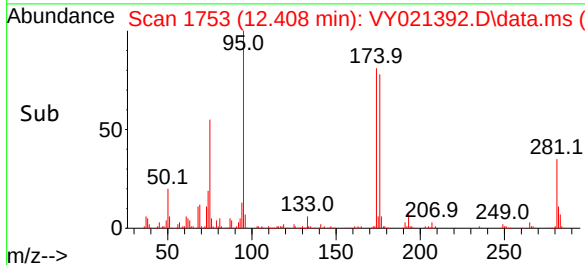
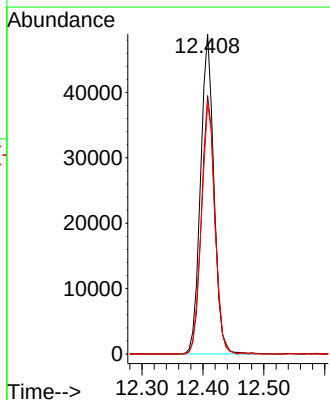
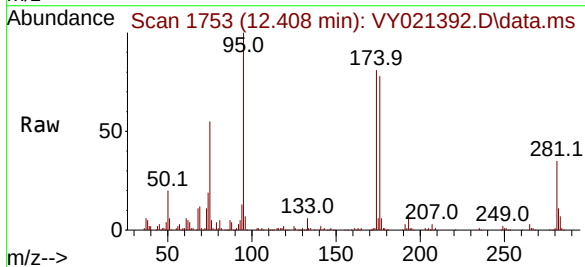
Instrument :  
MSVOA\_Y  
ClientSampleId :  
T4

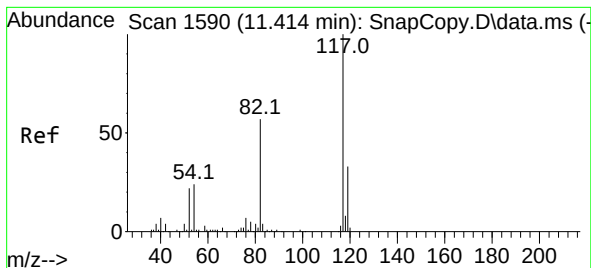
Tgt Ion: 98 Resp: 260343  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.4 78.6



#62  
4-Bromofluorobenzene  
Concen: 41.064 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.000 min  
Lab File: VY021392.D  
Acq: 28 Feb 2025 19:49

Tgt Ion: 95 Resp: 74618  
Ion Ratio Lower Upper  
95 100  
174 81.4 0.0 168.0  
176 79.6 0.0 162.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY021392.D

Acq: 28 Feb 2025 19:49

Instrument :

MSVOA\_Y

ClientSampleId :

T4

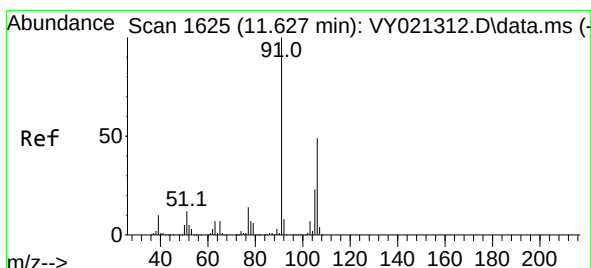
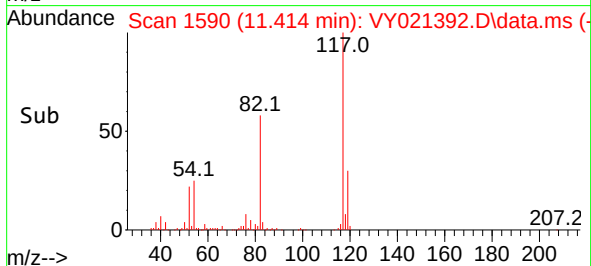
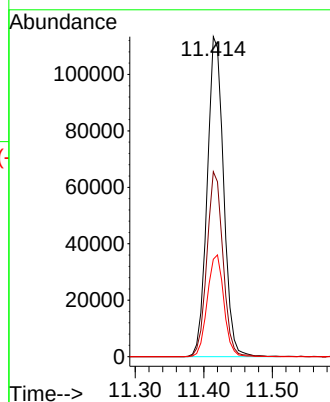
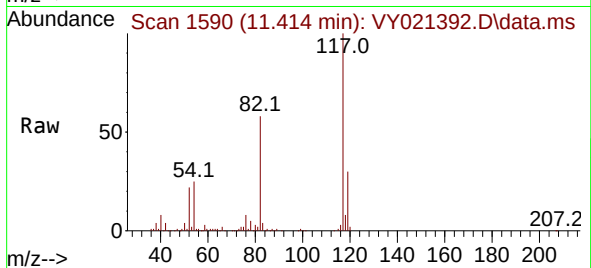
Tgt Ion:117 Resp: 188811

Ion Ratio Lower Upper

117 100

82 57.8 46.2 69.4

119 30.5 24.9 37.3



#68

m/p-Xylenes

Concen: 1.678 ug/l

RT: 11.627 min Scan# 1625

Delta R.T. 0.000 min

Lab File: VY021392.D

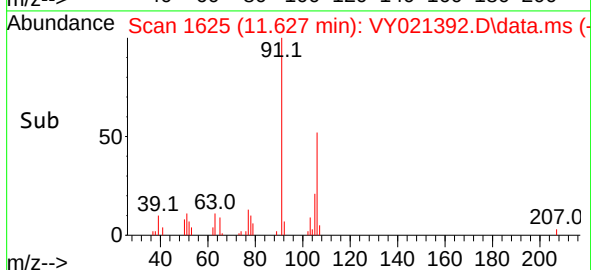
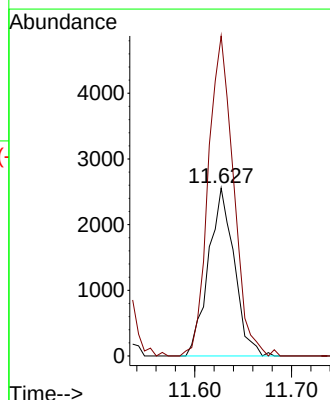
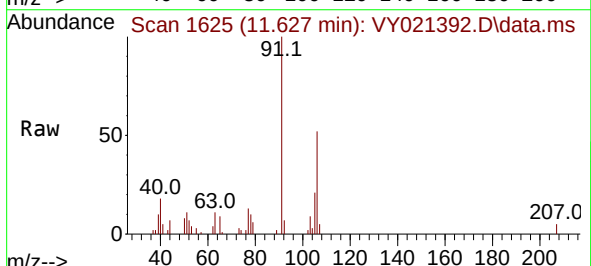
Acq: 28 Feb 2025 19:49

Tgt Ion:106 Resp: 4738

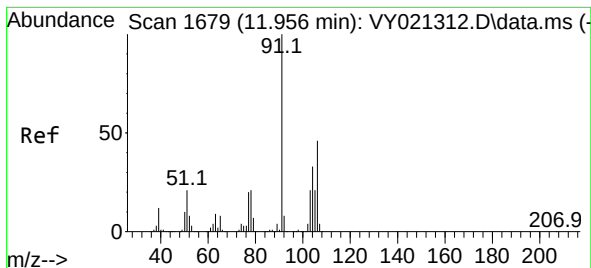
Ion Ratio Lower Upper

106 100

91 186.5 163.9 245.9







#69

o-Xylene

Concen: 4.603 ug/l

RT: 11.950 min Scan# 1

Delta R.T. -0.006 min

Lab File: VY021392.D

Acq: 28 Feb 2025 19:49

Instrument :

MSVOA\_Y

ClientSampleId :

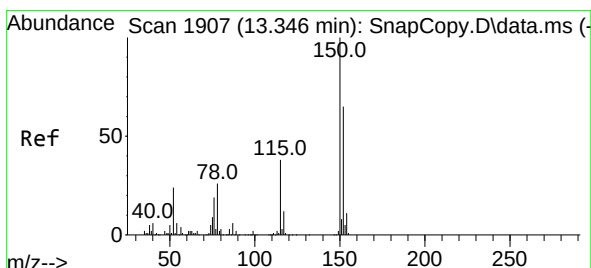
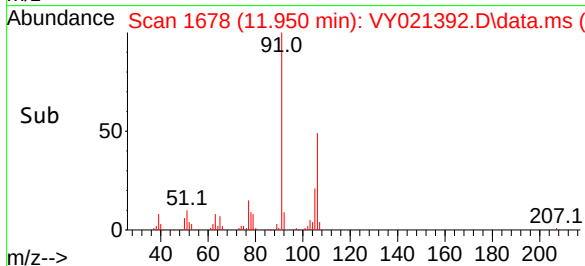
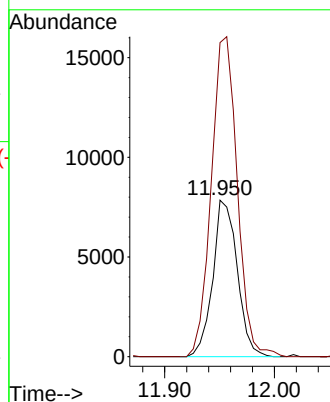
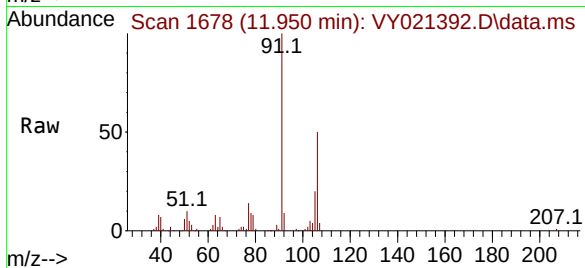
T4

Tgt Ion:106 Resp: 12177

Ion Ratio Lower Upper

106 100

91 216.8 108.1 324.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY021392.D

Acq: 28 Feb 2025 19:49

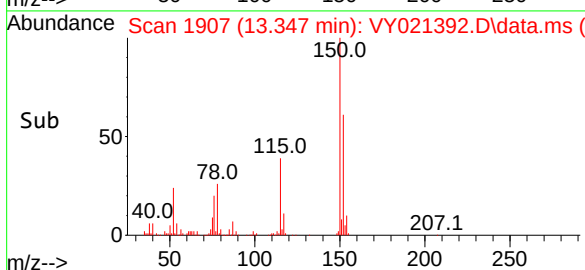
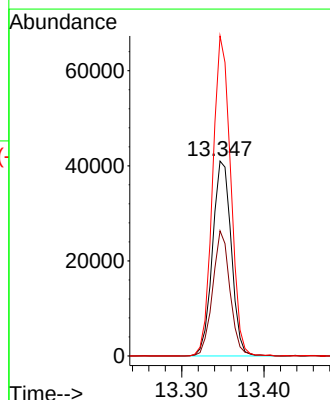
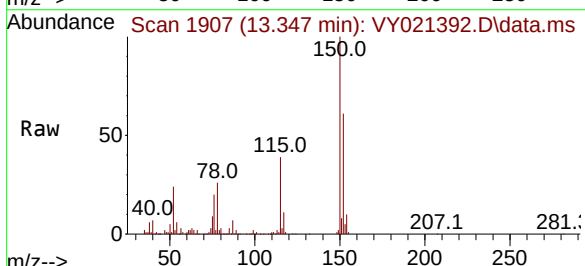
Tgt Ion:152 Resp: 64962

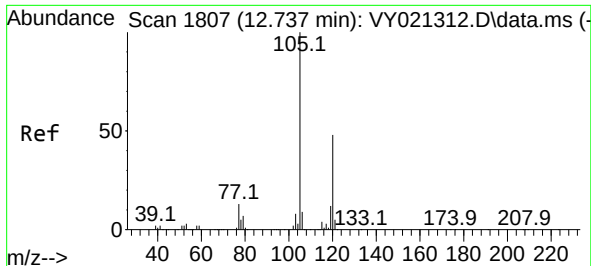
Ion Ratio Lower Upper

152 100

115 59.6 29.3 88.0

150 157.9 0.0 347.4

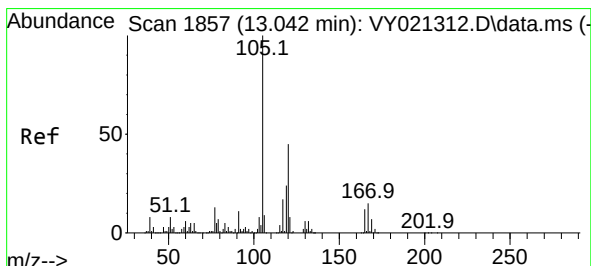
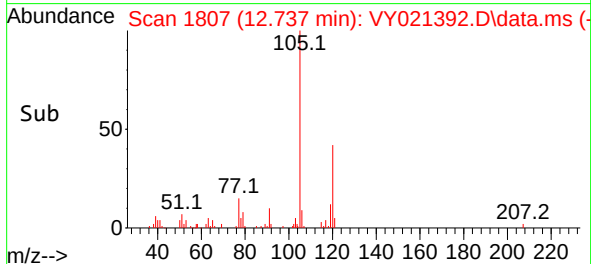
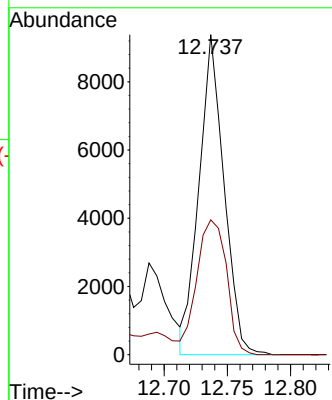
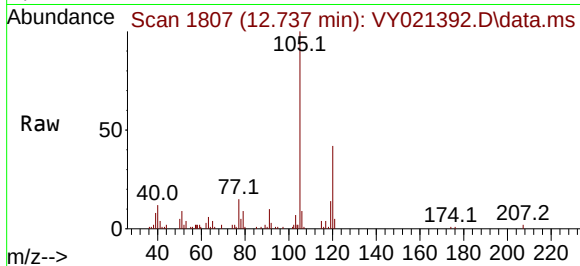




#80  
1,3,5-Trimethylbenzene  
Concen: 3.215 ug/l  
RT: 12.737 min Scan# 1807  
Delta R.T. 0.000 min  
Lab File: VY021392.D  
Acq: 28 Feb 2025 19:49

Instrument :  
MSVOA\_Y  
ClientSampleId :  
T4

Tgt Ion:105 Resp: 12877  
Ion Ratio Lower Upper  
105 100  
120 50.0 24.3 73.0



#84  
1,2,4-Trimethylbenzene  
Concen: 1.989 ug/l  
RT: 13.042 min Scan# 1857  
Delta R.T. 0.000 min  
Lab File: VY021392.D  
Acq: 28 Feb 2025 19:49

Tgt Ion:105 Resp: 7925  
Ion Ratio Lower Upper  
105 100  
120 45.8 22.4 67.3

