

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY030625\  
 Data File : VY021436.D  
 Acq On : 06 Mar 2025 15:49  
 Operator : SY/MD  
 Sample : Q1488-03  
 Misc : 8.05g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ENV-101-SB02

Quant Time: Mar 07 00:40:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y030425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Mar 05 12:42:45 2025  
 Response via : Initial Calibration

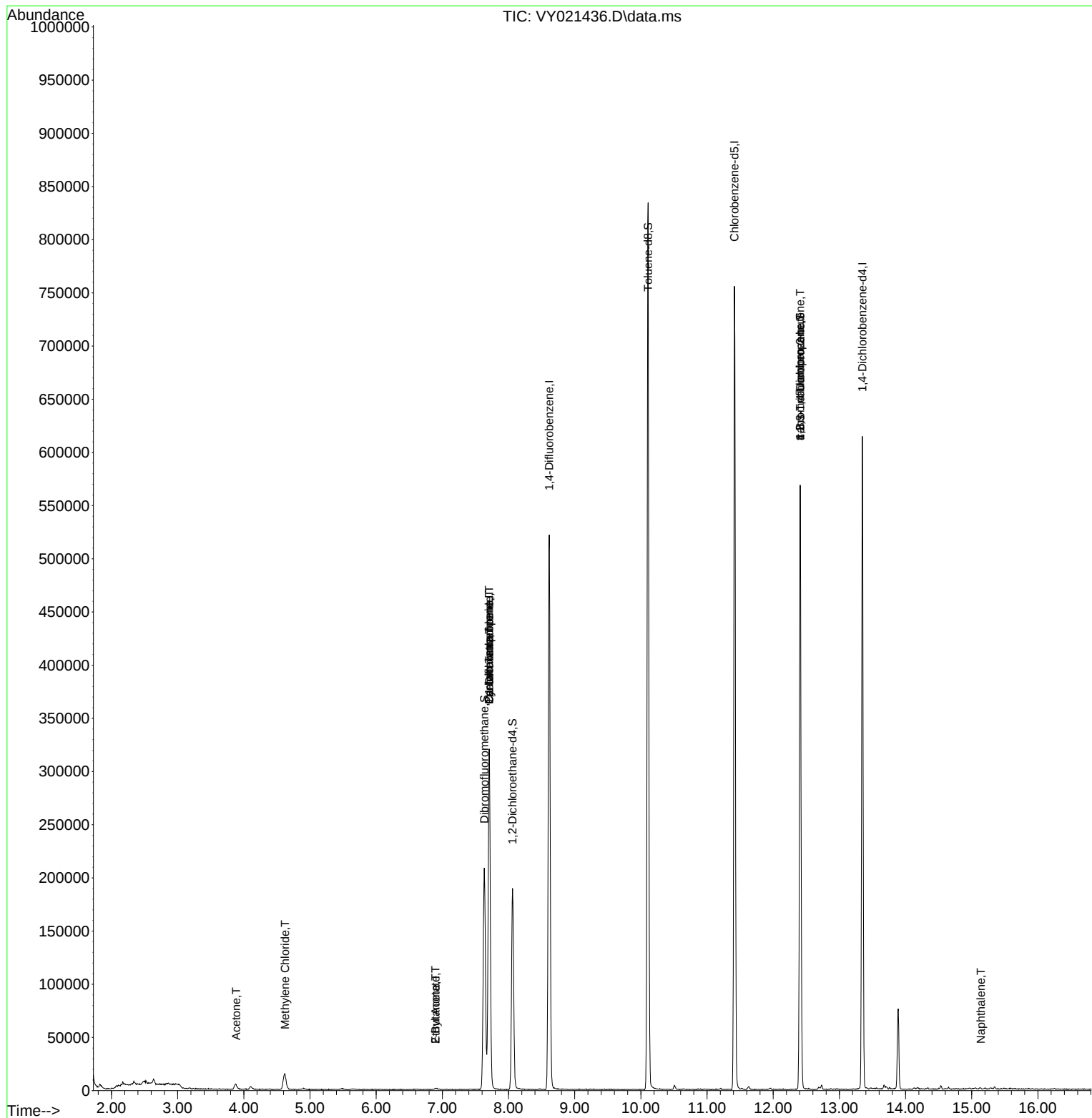
| Compound                      | R.T.   | QIon  | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|------------|----------|
| -----                         |        |       |          |           |            |          |
| Internal Standards            |        |       |          |           |            |          |
| 1) Pentafluorobenzene         | 7.707  | 168   | 234226   | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616  | 114   | 429130   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.414 | 117   | 377679   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.347 | 152   | 143740   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.061  | 65    | 150343   | 60.729    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | = 121.460% |          |
| 35) Dibromofluoromethane      | 7.634  | 113   | 145960   | 51.745    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | = 103.500% |          |
| 50) Toluene-d8                | 10.109 | 98    | 520619   | 48.746    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | = 97.500%  |          |
| 62) 4-Bromofluorobenzene      | 12.408 | 95    | 155393   | 42.773    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | = 85.540%  |          |
| Target Compounds              |        |       |          |           |            |          |
|                               |        |       |          |           | Qvalue     |          |
| 11) Tert butyl alcohol        | 4.854  | 59    | 78       | Below Cal | #          | 72       |
| 16) Acetone                   | 3.885  | 43    | 8980     | 16.631    | ug/l       | 99       |
| 20) Methylene Chloride        | 4.622  | 84    | 10639    | 3.754     | ug/l       | 97       |
| 25) 2-Butanone                | 6.896  | 43    | 2396     | 3.208     | ug/l       | 98       |
| 31) Cyclohexane               | 7.707  | 56    | 5987     | 1.291     | ug/l #     | 26       |
| 36) 1,1-Dichloropropene       | 7.707  | 75    | 19989    | 4.527     | ug/l #     | 49       |
| 37) Ethyl Acetate             | 6.896  | 43    | 2396     | 1.228     | ug/l #     | 68       |
| 38) Carbon Tetrachloride      | 7.707  | 117   | 24772    | 4.878     | ug/l #     | 16       |
| 76) 1,2,3-Trichloropropane    | 12.408 | 75    | 85107    | 58.757    | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.408 | 75    | 85107    | 133.574   | ug/l #     | 9        |
| 95) Naphthalene               | 15.139 | 128   | 368      | 1.543     | ug/l #     | 69       |
| -----                         |        |       |          |           |            |          |

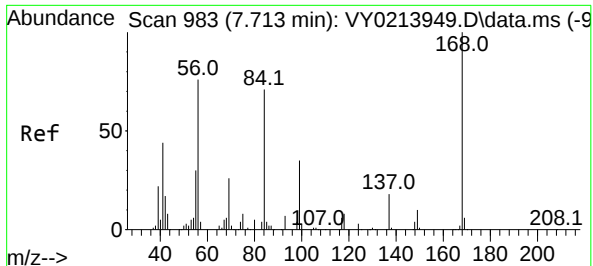
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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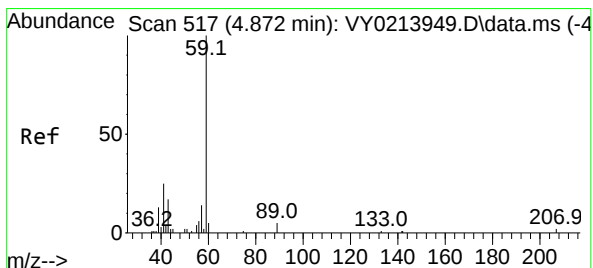
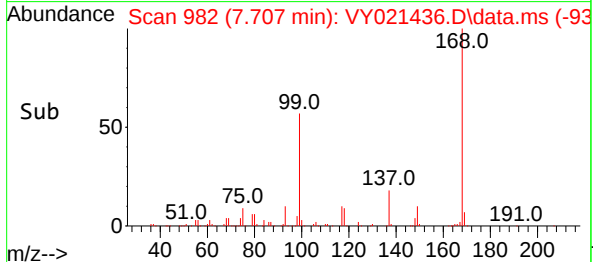
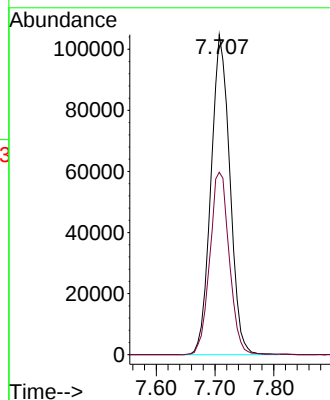
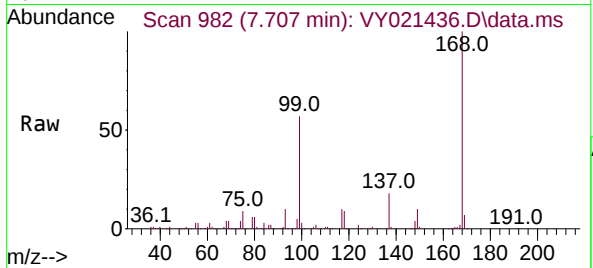




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY021436.D  
Acq: 06 Mar 2025 15:49

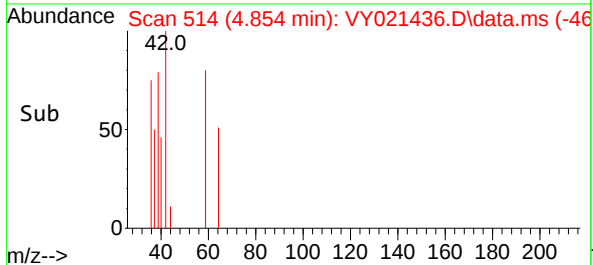
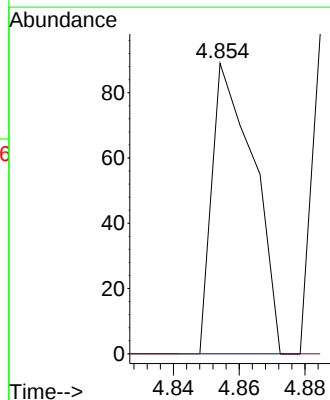
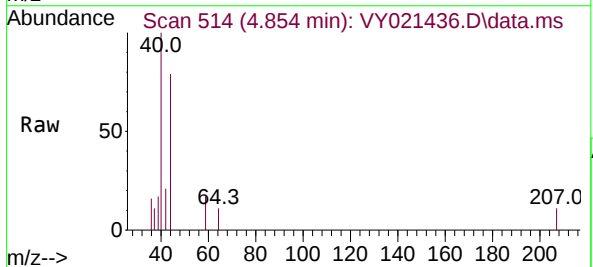
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ENV-101-SB02

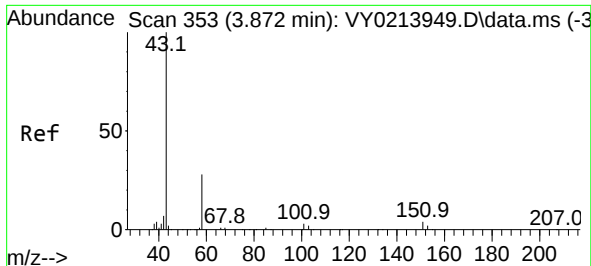
Tgt Ion:168 Resp: 234226  
Ion Ratio Lower Upper  
168 100  
99 57.0 46.0 69.0



#11  
Tert butyl alcohol  
Concen: Below Cal  
RT: 4.854 min Scan# 514  
Delta R.T. -0.018 min  
Lab File: VY021436.D  
Acq: 06 Mar 2025 15:49

Tgt Ion: 59 Resp: 78  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.4#

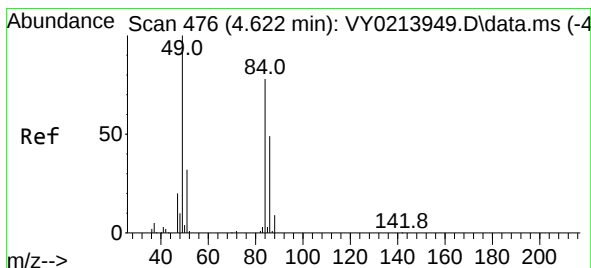
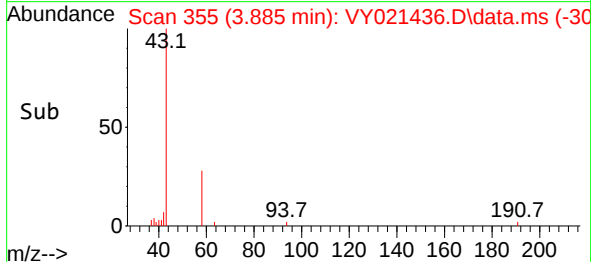
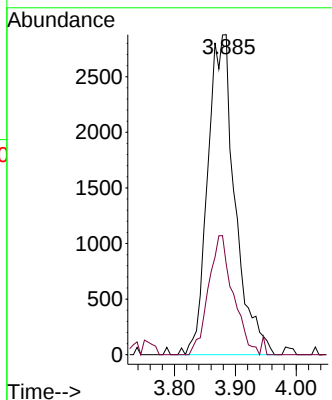
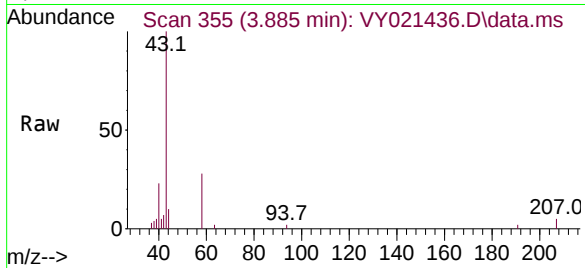




#16  
Acetone  
Concen: 16.631 ug/l  
RT: 3.885 min Scan# 355  
Delta R.T. 0.013 min  
Lab File: VY021436.D  
Acq: 06 Mar 2025 15:49

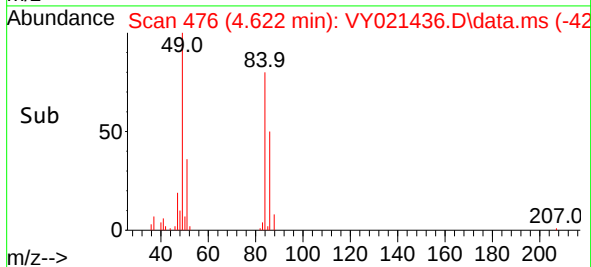
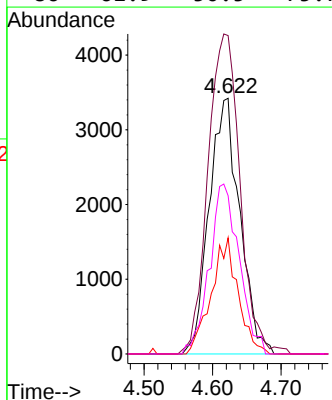
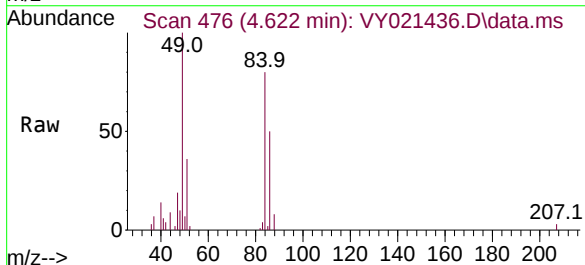
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ENV-101-SB02

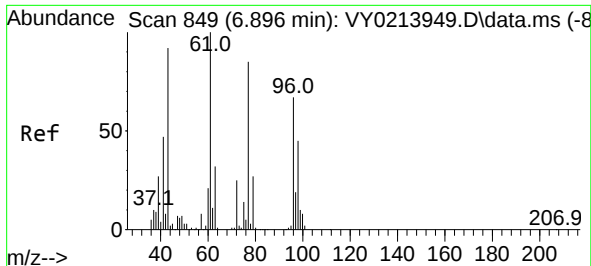
Tgt Ion: 43 Resp: 8980  
Ion Ratio Lower Upper  
43 100  
58 28.4 22.1 33.1



#20  
Methylene Chloride  
Concen: 3.754 ug/l  
RT: 4.622 min Scan# 476  
Delta R.T. 0.000 min  
Lab File: VY021436.D  
Acq: 06 Mar 2025 15:49

Tgt Ion: 84 Resp: 10639  
Ion Ratio Lower Upper  
84 100  
49 124.5 102.0 153.0  
51 45.4 33.0 49.6  
86 61.9 50.5 75.7





#25

2-Butanone

Concen: 3.208 ug/l

RT: 6.896 min Scan# 849

Delta R.T. 0.000 min

Lab File: VY021436.D

Acq: 06 Mar 2025 15:49

Instrument :

MSVOA\_Y

ClientSampleId :

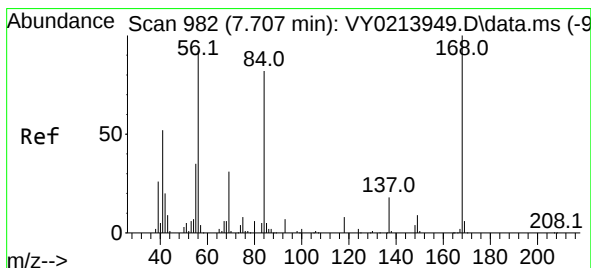
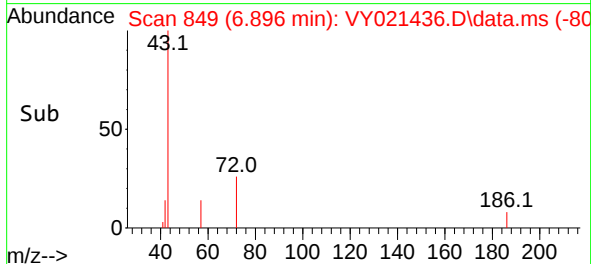
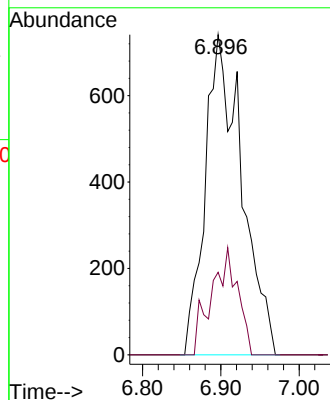
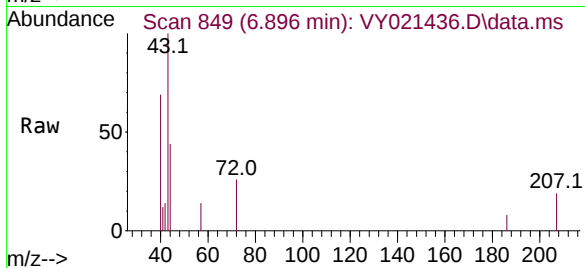
ENV-101-SB02

Tgt Ion: 43 Resp: 2396

Ion Ratio Lower Upper

43 100

72 25.8 21.4 32.0



#31

Cyclohexane

Concen: 1.291 ug/l

RT: 7.707 min Scan# 982

Delta R.T. 0.000 min

Lab File: VY021436.D

Acq: 06 Mar 2025 15:49

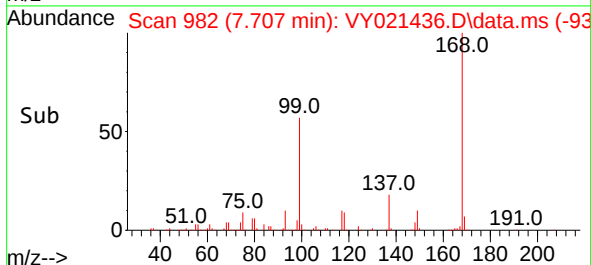
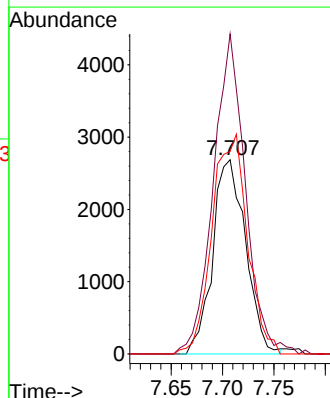
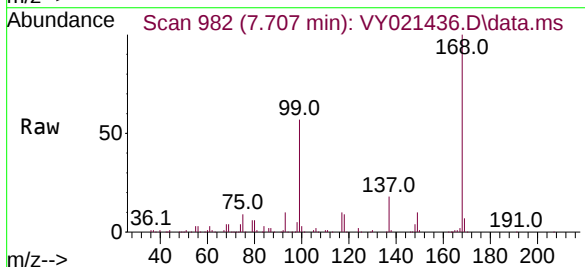
Tgt Ion: 56 Resp: 5987

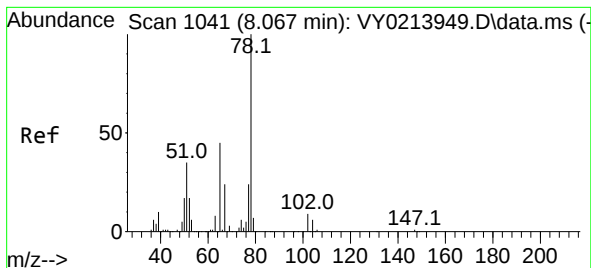
Ion Ratio Lower Upper

56 100

69 161.6 27.0 40.4#

84 104.3 71.1 106.7





#33

1,2-Dichloroethane-d4

Concen: 60.729 ug/l

RT: 8.061 min Scan# 110

Delta R.T. -0.006 min

Lab File: VY021436.D

Acq: 06 Mar 2025 15:49

Instrument :

MSVOA\_Y

ClientSampleId :

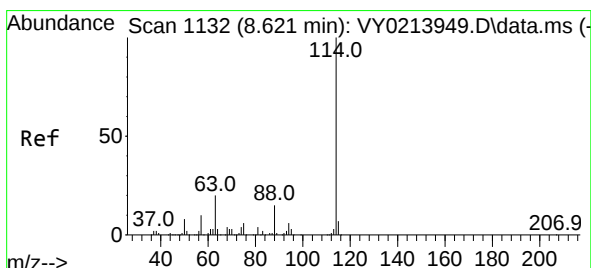
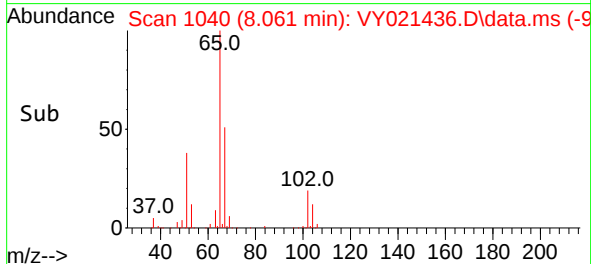
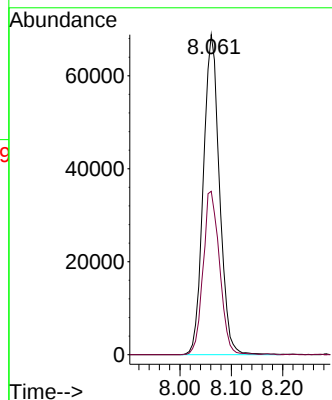
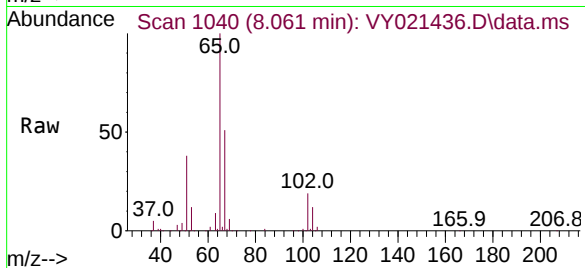
ENV-101-SB02

Tgt Ion: 65 Resp: 150343

Ion Ratio Lower Upper

65 100

67 51.9 0.0 102.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. -0.006 min

Lab File: VY021436.D

Acq: 06 Mar 2025 15:49

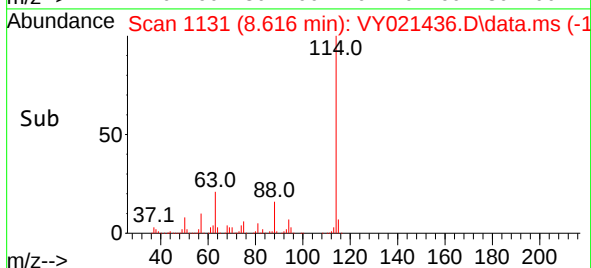
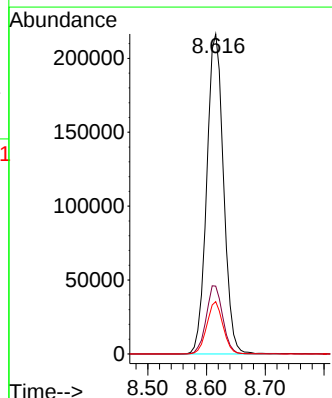
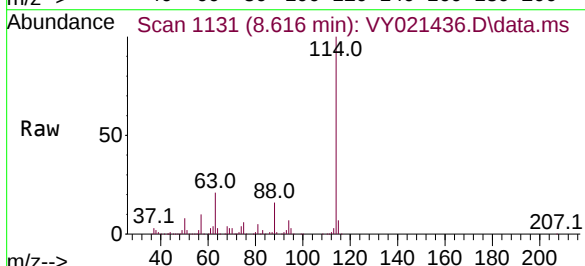
Tgt Ion: 114 Resp: 429130

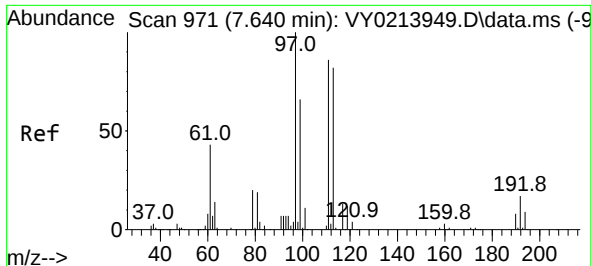
Ion Ratio Lower Upper

114 100

63 21.2 0.0 40.8

88 16.4 0.0 30.8

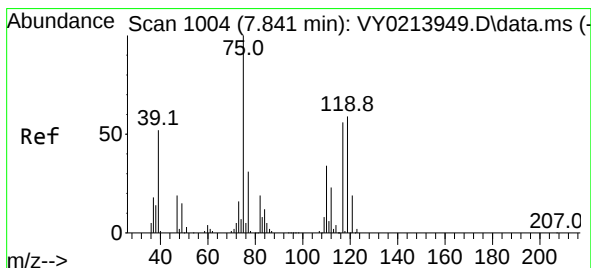
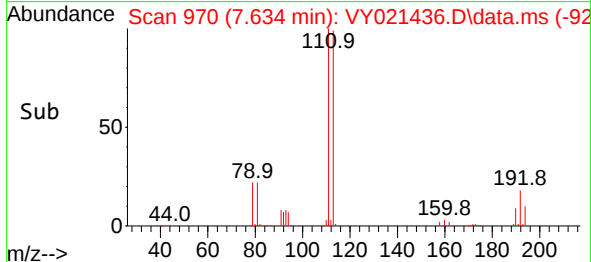
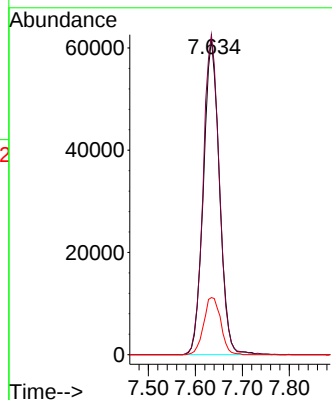
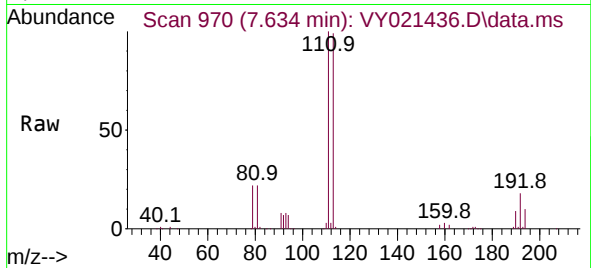




#35  
Dibromofluoromethane  
Concen: 51.745 ug/l  
RT: 7.634 min Scan# 91  
Delta R.T. -0.006 min  
Lab File: VY021436.D  
Acq: 06 Mar 2025 15:49

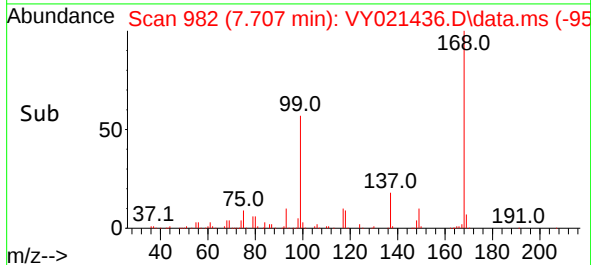
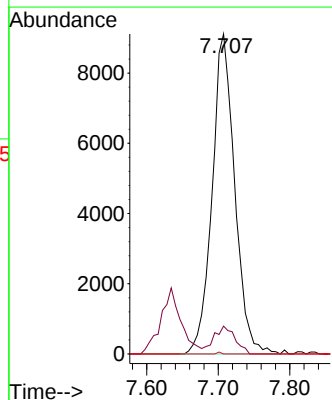
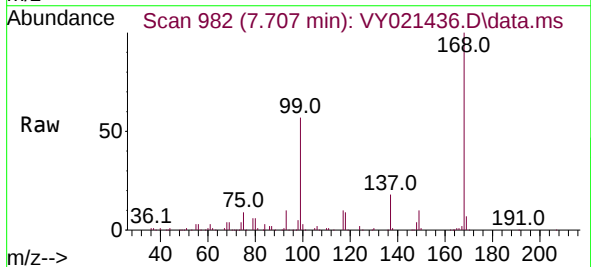
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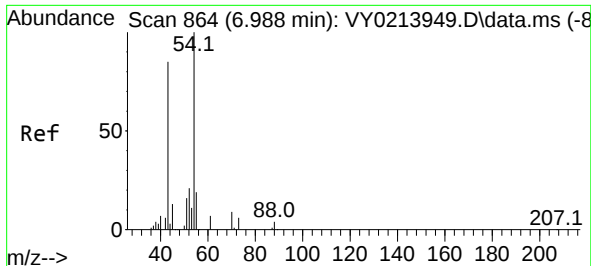
Tgt Ion:113 Resp: 145960  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.0 123.0  
192 19.3 15.9 23.9



#36  
1,1-Dichloropropene  
Concen: 4.527 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. -0.134 min  
Lab File: VY021436.D  
Acq: 06 Mar 2025 15:49

Tgt Ion: 75 Resp: 19989  
Ion Ratio Lower Upper  
75 100  
110 8.1 17.3 51.7#  
77 0.1 25.4 38.2#





#37

Ethyl Acetate

Concen: 1.228 ug/l

RT: 6.896 min Scan# 849

Delta R.T. -0.091 min

Lab File: VY021436.D

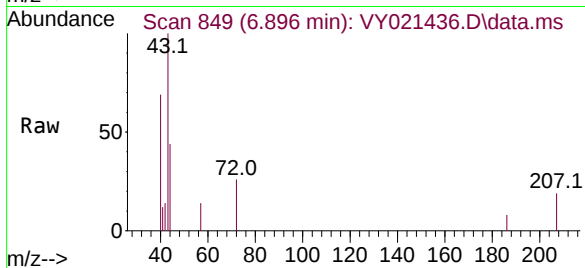
Acq: 06 Mar 2025 15:49

Instrument :

MSVOA\_Y

ClientSampleId :

ENV-101-SB02



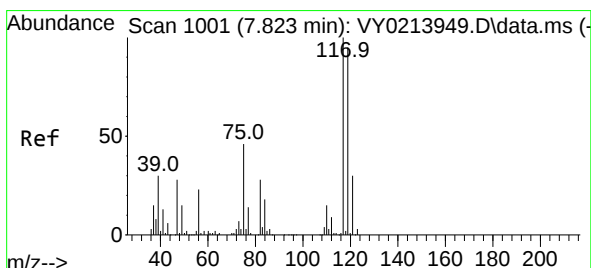
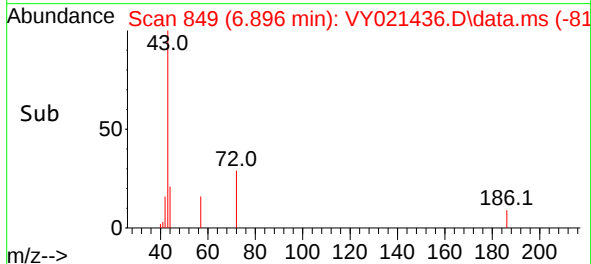
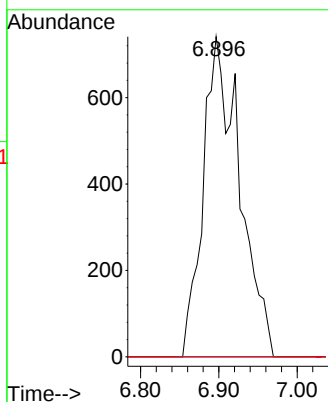
Tgt Ion: 43 Resp: 2396

Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

70 0.0 8.2 12.2#



#38

Carbon Tetrachloride

Concen: 4.878 ug/l

RT: 7.707 min Scan# 982

Delta R.T. -0.115 min

Lab File: VY021436.D

Acq: 06 Mar 2025 15:49

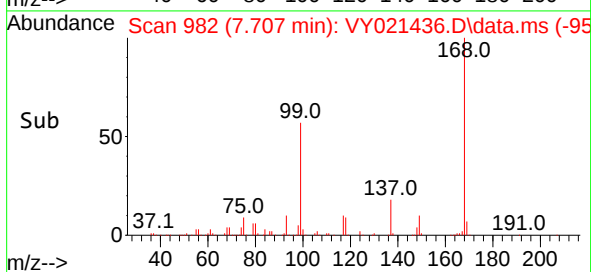
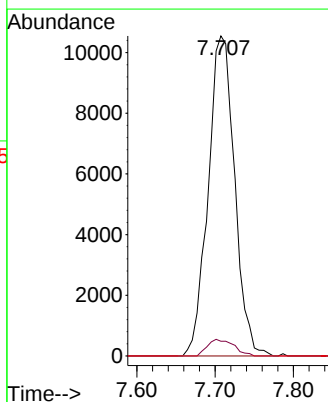
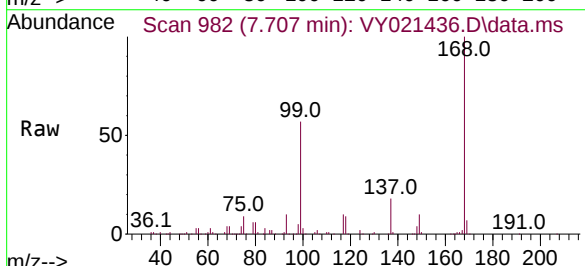
Tgt Ion: 117 Resp: 24772

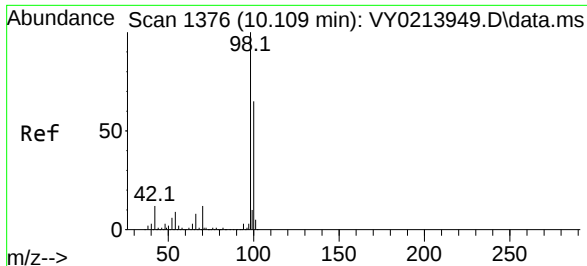
Ion Ratio Lower Upper

117 100

119 4.6 75.8 113.8#

121 0.0 23.9 35.9#

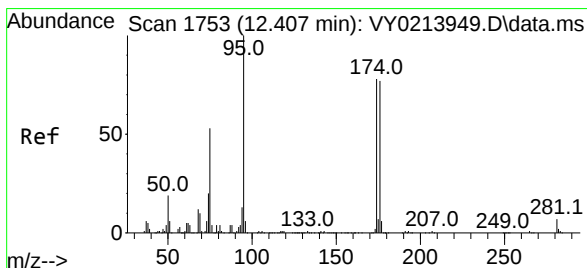
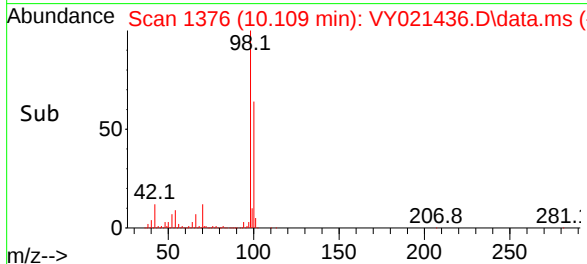
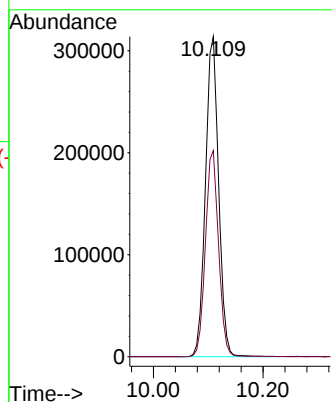
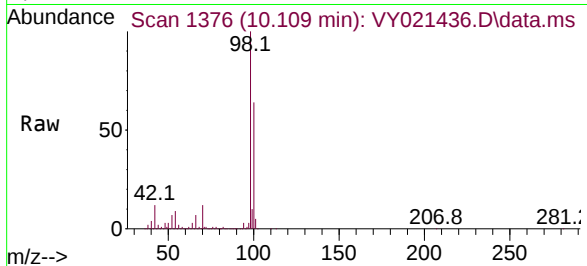




#50  
Toluene-d8  
Concen: 48.746 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. 0.000 min  
Lab File: VY021436.D  
Acq: 06 Mar 2025 15:49

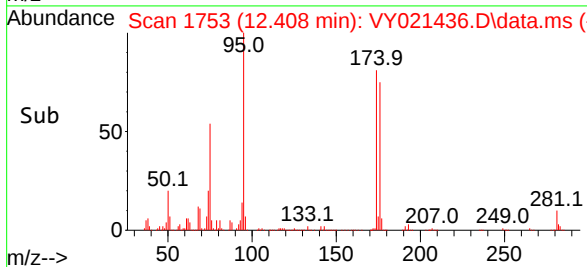
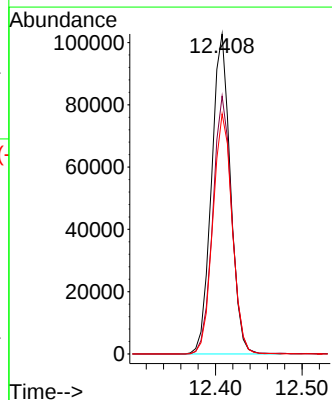
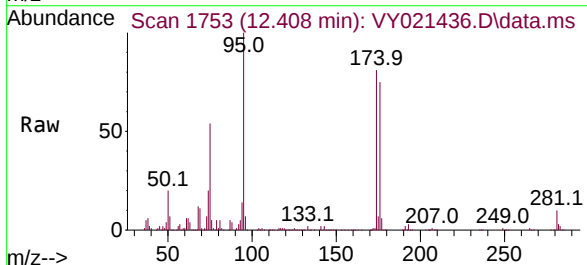
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ENV-101-SB02

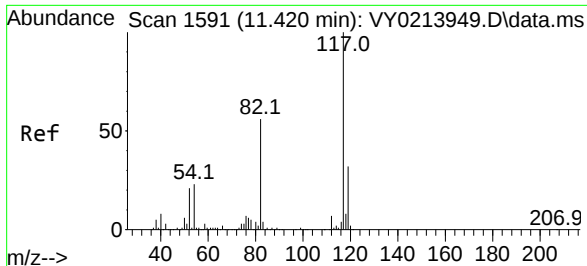
Tgt Ion: 98 Resp: 520619  
Ion Ratio Lower Upper  
98 100  
100 64.4 52.1 78.1



#62  
4-Bromofluorobenzene  
Concen: 42.773 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.000 min  
Lab File: VY021436.D  
Acq: 06 Mar 2025 15:49

Tgt Ion: 95 Resp: 155393  
Ion Ratio Lower Upper  
95 100  
174 80.9 0.0 165.0  
176 76.9 0.0 160.0

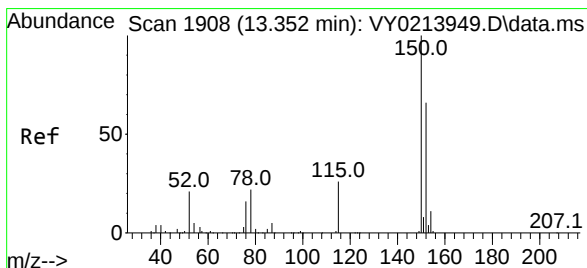
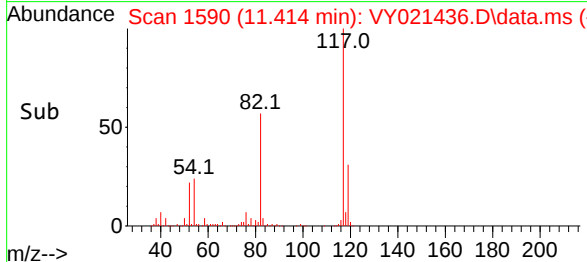
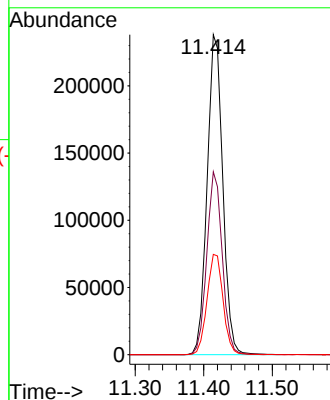
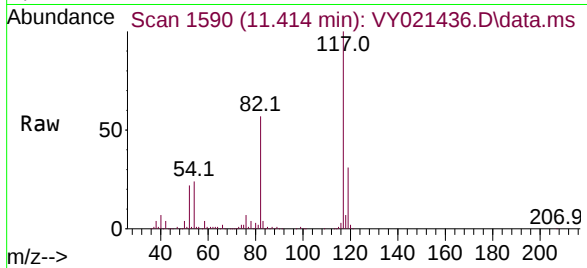




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VY021436.D  
Acq: 06 Mar 2025 15:49

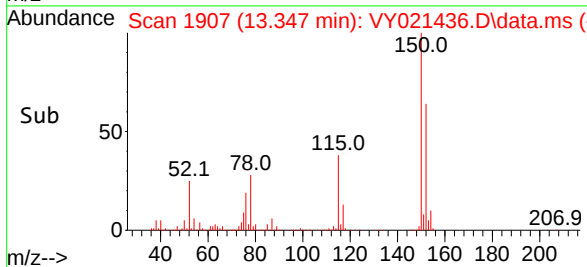
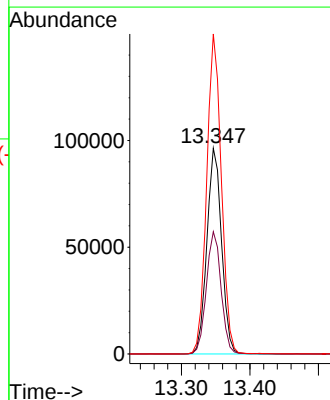
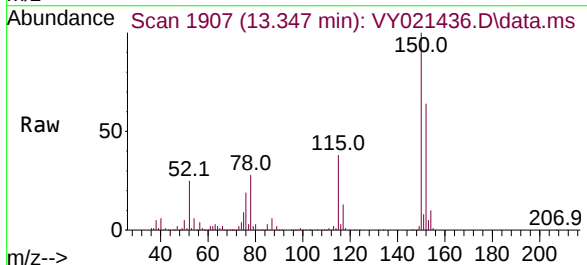
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ENV-101-SB02

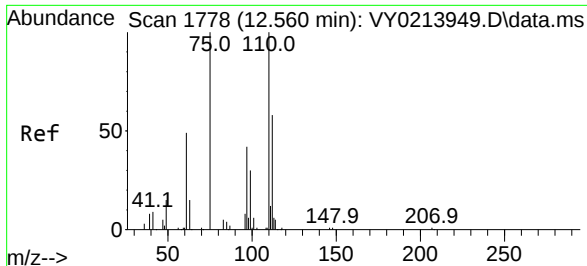
Tgt Ion:117 Resp: 377679  
Ion Ratio Lower Upper  
117 100  
82 57.2 44.6 67.0  
119 31.4 25.4 38.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.347 min Scan# 1907  
Delta R.T. -0.006 min  
Lab File: VY021436.D  
Acq: 06 Mar 2025 15:49

Tgt Ion:152 Resp: 143740  
Ion Ratio Lower Upper  
152 100  
115 59.7 29.0 87.0  
150 154.9 0.0 347.2

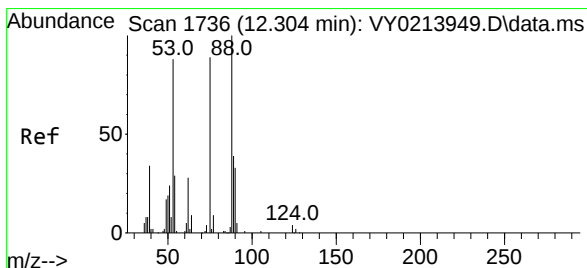
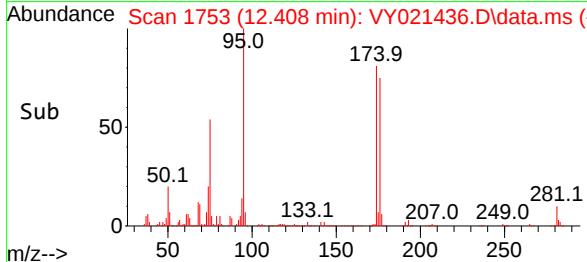
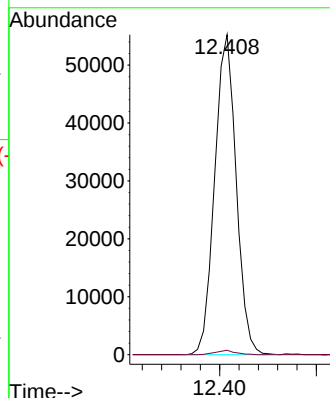
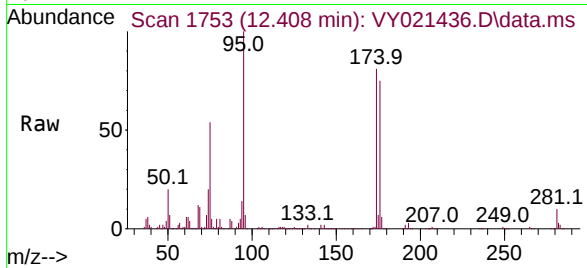




#76  
1,2,3-Trichloropropane  
Concen: 58.757 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. -0.152 min  
Lab File: VY021436.D  
Acq: 06 Mar 2025 15:49

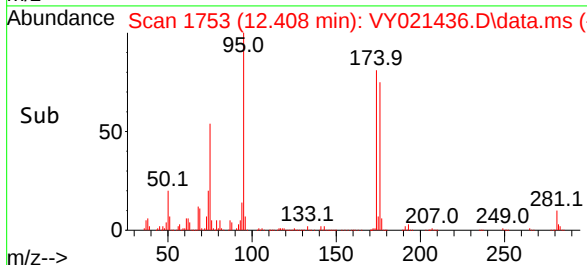
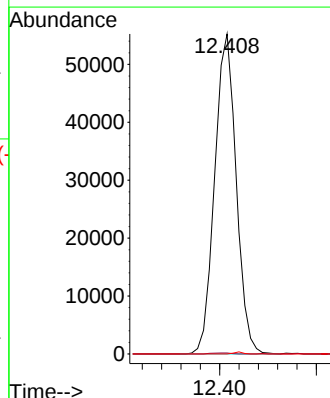
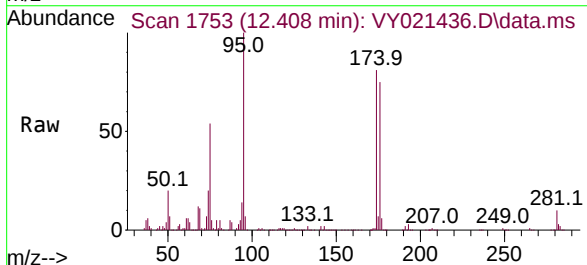
Instrument :  
MSVOA\_Y  
ClientSampleId :  
ENV-101-SB02

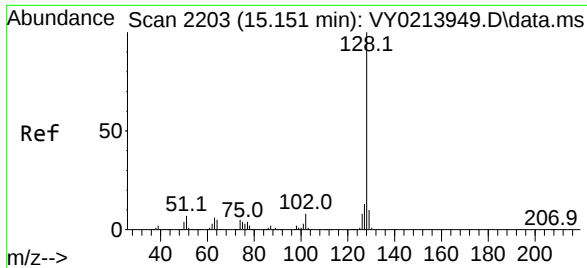
Tgt Ion: 75 Resp: 85107  
Ion Ratio Lower Upper  
75 100  
77 1.3 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 133.574 ug/l  
RT: 12.408 min Scan# 1753  
Delta R.T. 0.104 min  
Lab File: VY021436.D  
Acq: 06 Mar 2025 15:49

Tgt Ion: 75 Resp: 85107  
Ion Ratio Lower Upper  
75 100  
53 0.3 81.0 121.4#  
89 0.2 36.9 55.3#





#95  
 Naphthalene  
 Concen: 1.543 ug/l  
 RT: 15.139 min Scan# 21  
 Delta R.T. -0.012 min  
 Lab File: VY021436.D  
 Acq: 06 Mar 2025 15:49

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 ENV-101-SB02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 368   |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.6  | 15.8# |
| 129      | 0.0   | 8.6   | 13.0# |

