

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY111325\  
 Data File : VY023780.D  
 Acq On : 13 Nov 2025 12:38  
 Operator : SY/MD  
 Sample : Q3618-01  
 Misc : 5.28g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 EME-TOP-SOIL

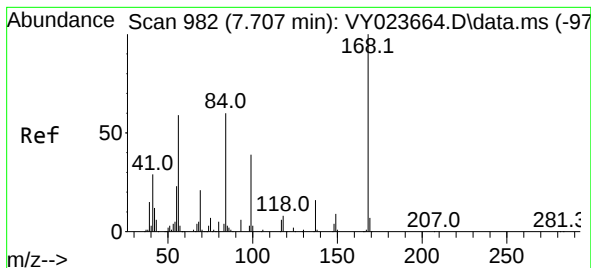
Quant Time: Nov 14 04:25:26 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 05 04:41:50 2025  
 Response via : Initial Calibration

| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.707     | 168   | 711582   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616     | 114   | 1226368  | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.414    | 117   | 948550   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.347    | 152   | 319105   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.061     | 65    | 362407   | 59.706   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery | = 119.420% |          |
| 35) Dibromofluoromethane      | 7.634     | 113   | 404628   | 52.796   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery | = 105.600% |          |
| 50) Toluene-d8                | 10.103    | 98    | 1368019  | 47.919   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 134 | Recovery | = 95.840%  |          |
| 62) 4-Bromofluorobenzene      | 12.402    | 95    | 350378   | 37.951   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 30 - 143 | Recovery | = 75.900%  |          |
| Target Compounds              |           |       |          |          |            |          |
|                               |           |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 4.854     | 59    | 606      | 1.548    | ug/l #     | 74       |
| 20) Methylene Chloride        | 4.616     | 84    | 35057    | 4.813    | ug/l       | 99       |
| 31) Cyclohexane               | 7.707     | 56    | 12372    | 1.237    | ug/l #     | 1        |
| 36) 1,1-Dichloropropene       | 7.707     | 75    | 49914    | 4.874    | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 7.707     | 117   | 67448    | 5.590    | ug/l #     | 16       |
| 51) 4-Methyl-2-Pentanone      | 10.103    | 43    | 5021     | 1.267    | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.402    | 75    | 181057   | 70.108   | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.402    | 75    | 181057   | 158.439  | ug/l #     | 15       |
| 95) Naphthalene               | 15.139    | 128   | 1290     | 5.385    | ug/l #     | 83       |
| -----                         |           |       |          |          |            |          |

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

Quant Time: Nov 14 04:25:26 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y110425S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 05 04:41:50 2025  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.707 min Scan# 91

Delta R.T. 0.000 min

Lab File: VY023780.D

Acq: 13 Nov 2025 12:38

Instrument :

MSVOA\_Y

ClientSampleId :

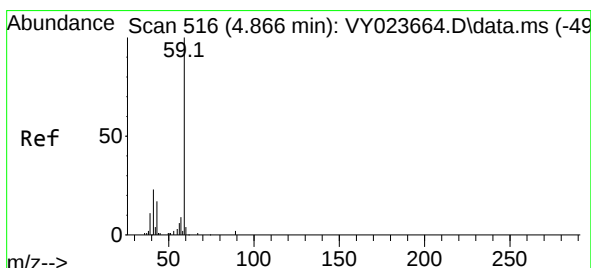
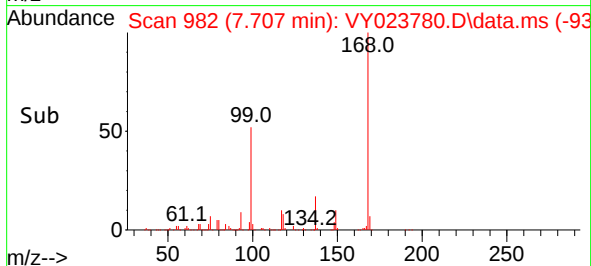
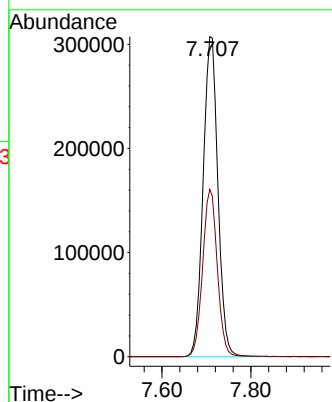
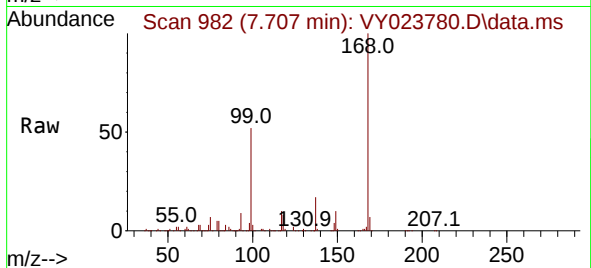
EME-TOP-SOIL

Tgt Ion:168 Resp: 711582

Ion Ratio Lower Upper

168 100

99 52.3 41.0 61.4



#11

Tert butyl alcohol

Concen: 1.548 ug/l

RT: 4.854 min Scan# 514

Delta R.T. -0.012 min

Lab File: VY023780.D

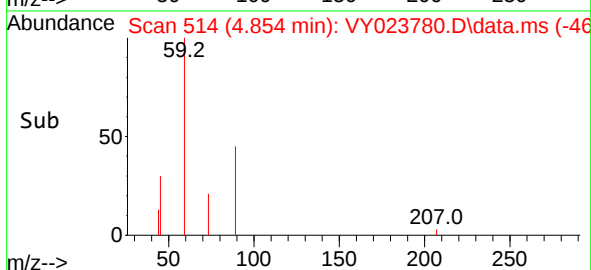
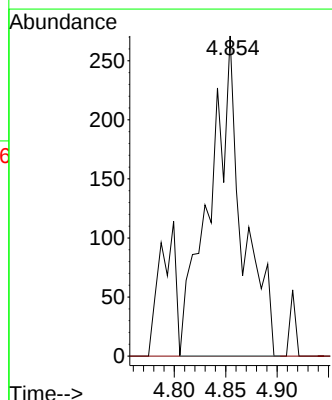
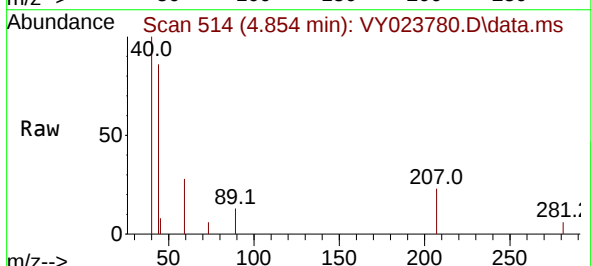
Acq: 13 Nov 2025 12:38

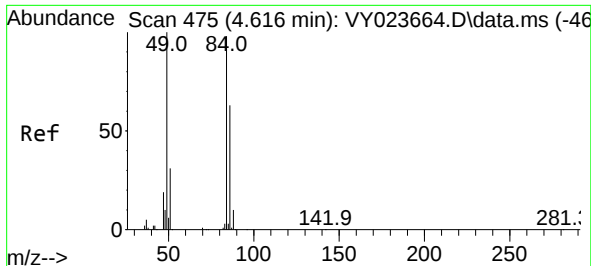
Tgt Ion: 59 Resp: 606

Ion Ratio Lower Upper

59 100

57 0.0 7.4 11.2#

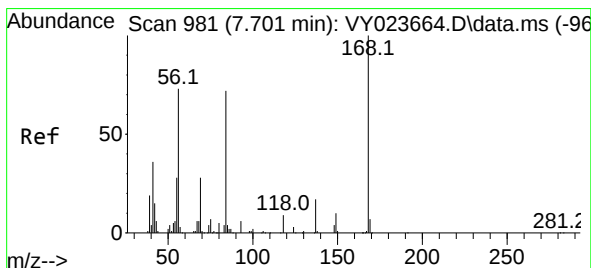
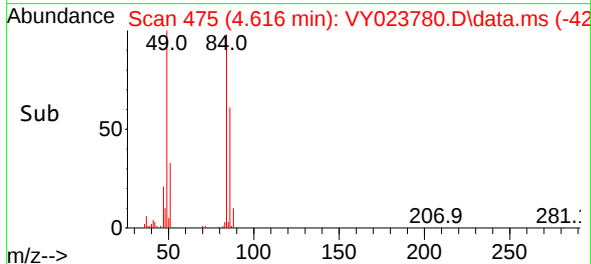
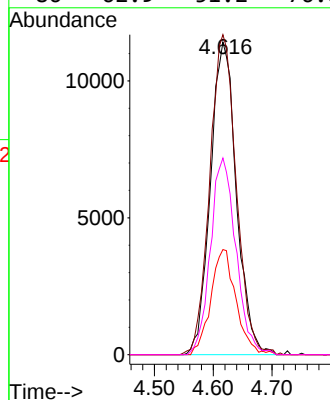
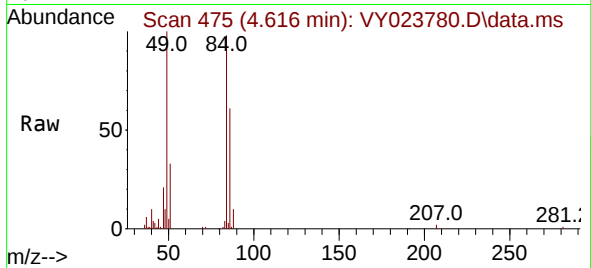




#20  
Methylene Chloride  
Concen: 4.813 ug/l  
RT: 4.616 min Scan# 41  
Delta R.T. 0.000 min  
Lab File: VY023780.D  
Acq: 13 Nov 2025 12:38

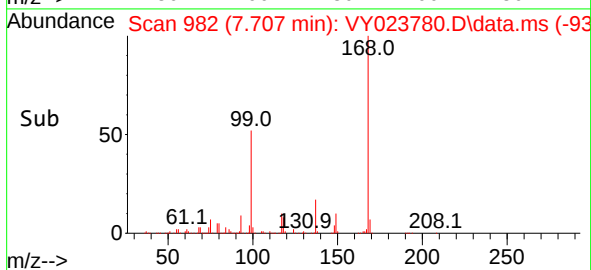
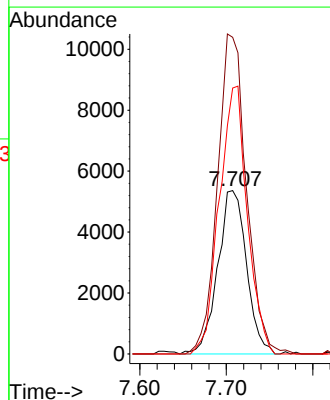
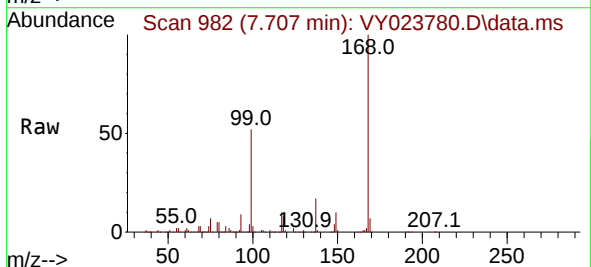
Instrument :  
MSVOA\_Y  
ClientSampleId :  
EME-TOP-SOIL

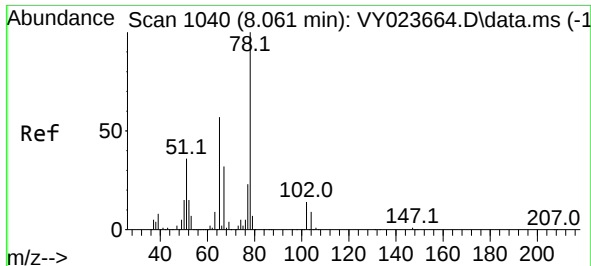
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 35057 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 102.4 | 81.5  | 122.3 |
| 51       | 33.6  | 25.5  | 38.3  |
| 86       | 62.9  | 51.2  | 76.8  |



#31  
Cyclohexane  
Concen: 1.237 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. 0.006 min  
Lab File: VY023780.D  
Acq: 13 Nov 2025 12:38

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 12372  |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 193.9 | 30.5  | 45.7#  |
| 84       | 162.8 | 79.0  | 118.4# |





#33

1,2-Dichloroethane-d4

Concen: 59.706 ug/l

RT: 8.061 min Scan# 11040

Delta R.T. 0.000 min

Lab File: VY023780.D

Acq: 13 Nov 2025 12:38

Instrument :

MSVOA\_Y

ClientSampleId :

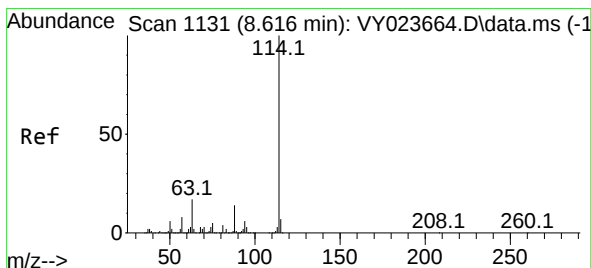
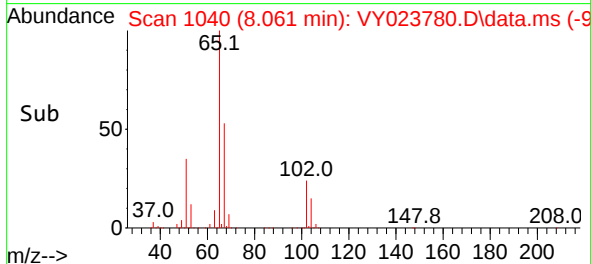
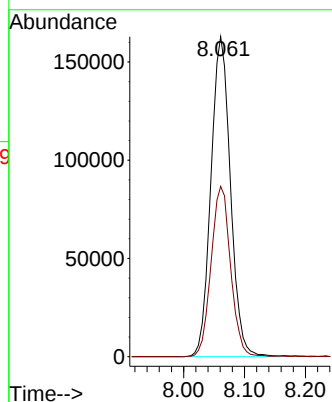
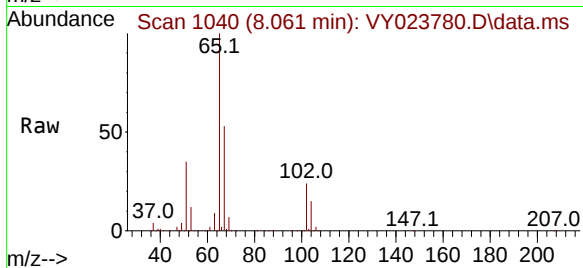
EME-TOP-SOIL

Tgt Ion: 65 Resp: 362407

Ion Ratio Lower Upper

65 100

67 53.2 0.0 107.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

Delta R.T. 0.000 min

Lab File: VY023780.D

Acq: 13 Nov 2025 12:38

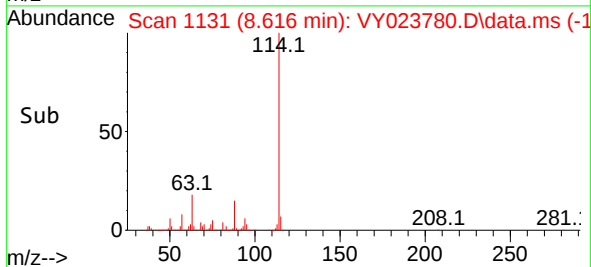
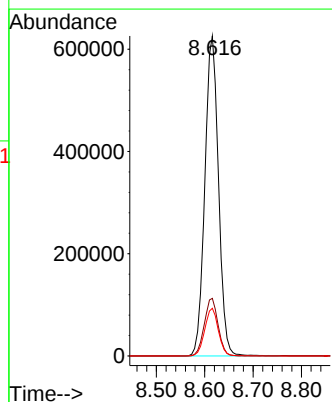
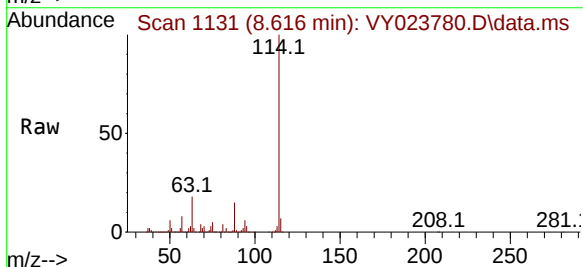
Tgt Ion: 114 Resp: 1226368

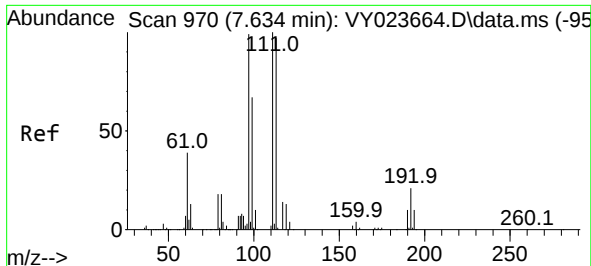
Ion Ratio Lower Upper

114 100

63 18.0 0.0 33.8

88 14.9 0.0 29.0

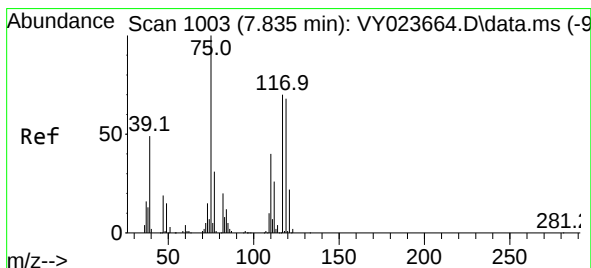
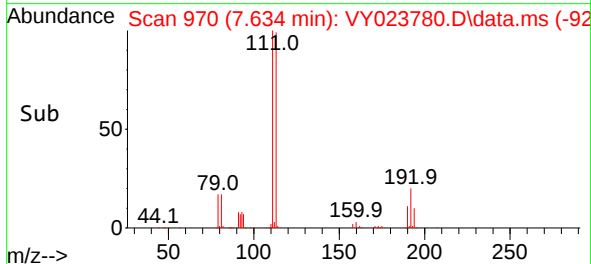
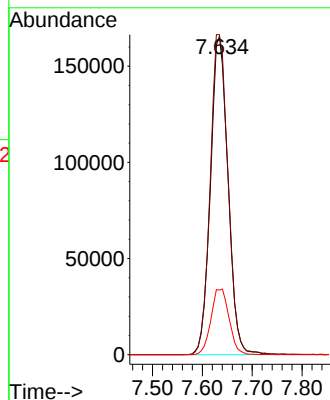
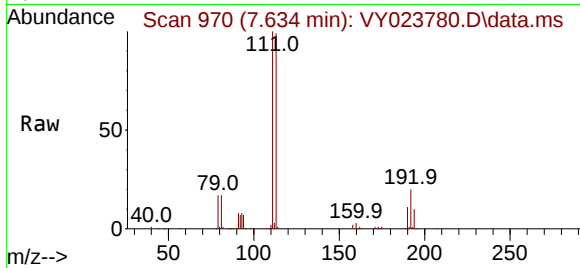




#35  
Dibromofluoromethane  
Concen: 52.796 ug/l  
RT: 7.634 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY023780.D  
Acq: 13 Nov 2025 12:38

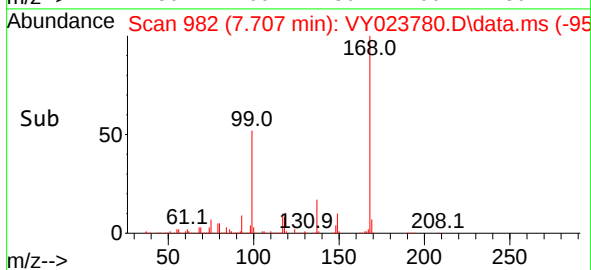
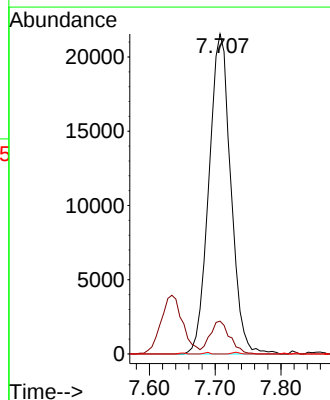
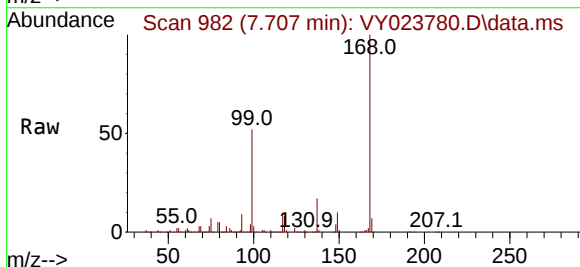
Instrument :  
MSVOA\_Y  
ClientSampleId :  
EME-TOP-SOIL

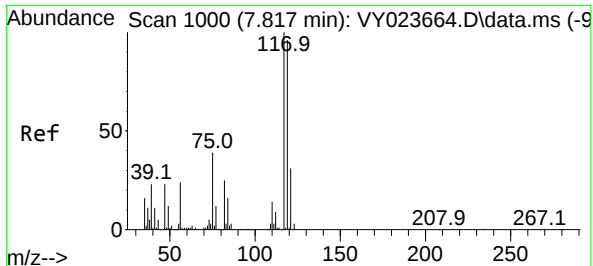
Tgt Ion:113 Resp: 404628  
Ion Ratio Lower Upper  
113 100  
111 102.8 82.2 123.4  
192 21.3 17.3 25.9



#36  
1,1-Dichloropropene  
Concen: 4.874 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. -0.128 min  
Lab File: VY023780.D  
Acq: 13 Nov 2025 12:38

Tgt Ion: 75 Resp: 49914  
Ion Ratio Lower Upper  
75 100  
110 9.3 19.7 59.0#  
77 0.1 25.2 37.8#

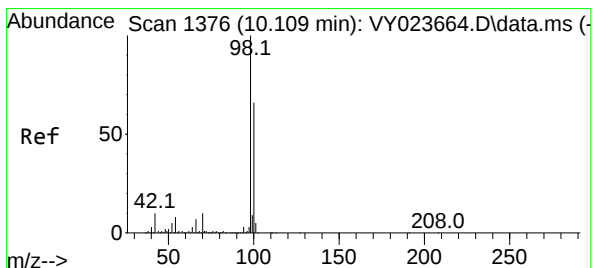
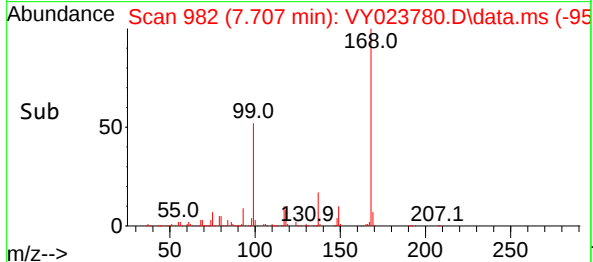
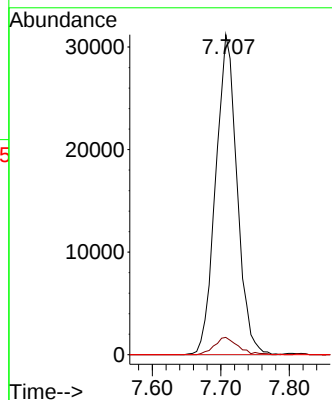
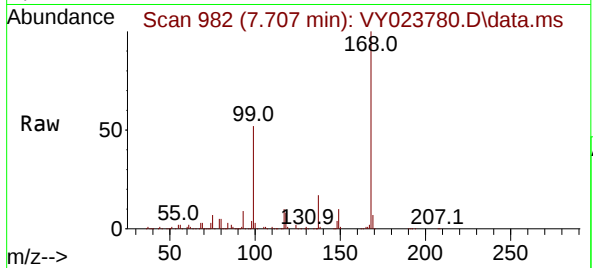




#38  
Carbon Tetrachloride  
Concen: 5.590 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY023780.D  
Acq: 13 Nov 2025 12:38

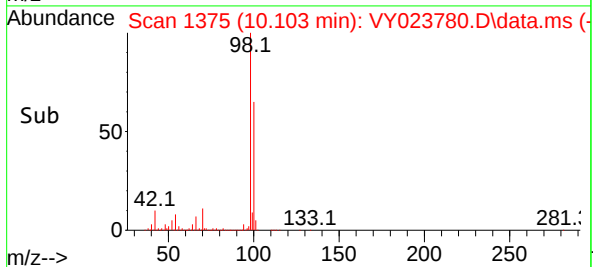
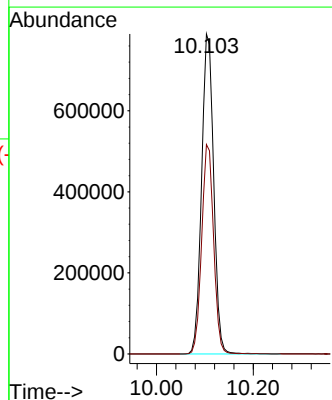
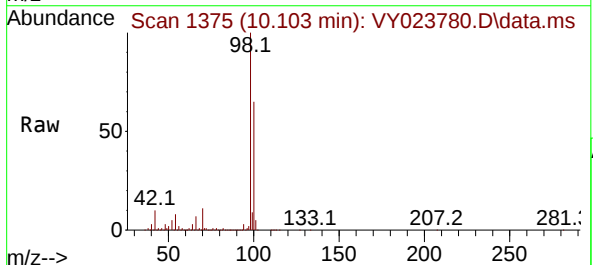
Instrument :  
MSVOA\_Y  
ClientSampleId :  
EME-TOP-SOIL

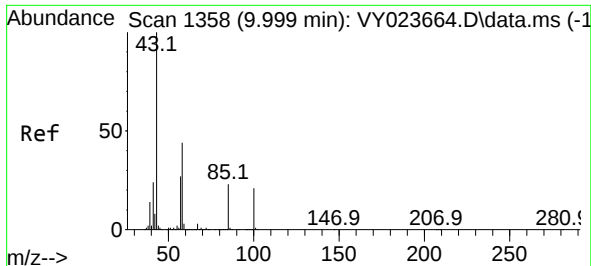
Tgt Ion:117 Resp: 67448  
Ion Ratio Lower Upper  
117 100  
119 5.4 76.3 114.5#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 47.919 ug/l  
RT: 10.103 min Scan# 1375  
Delta R.T. -0.006 min  
Lab File: VY023780.D  
Acq: 13 Nov 2025 12:38

Tgt Ion: 98 Resp: 1368019  
Ion Ratio Lower Upper  
98 100  
100 64.8 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 1.267 ug/l

RT: 10.103 min Scan# 11

Delta R.T. 0.104 min

Lab File: VY023780.D

Acq: 13 Nov 2025 12:38

Instrument :

MSVOA\_Y

ClientSampleId :

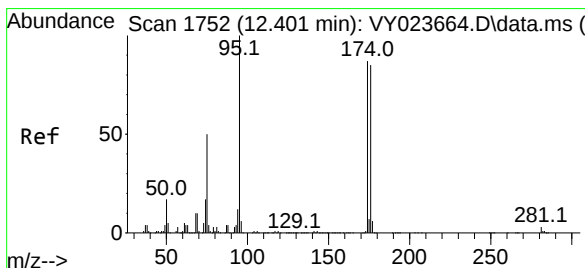
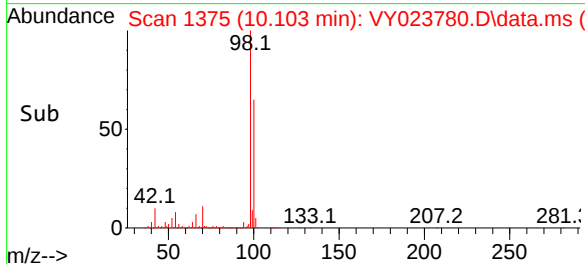
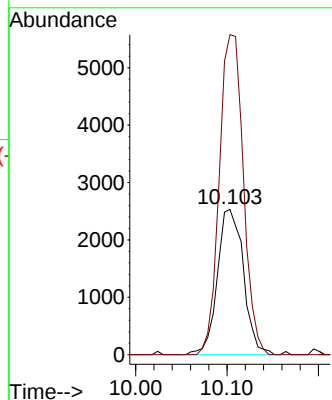
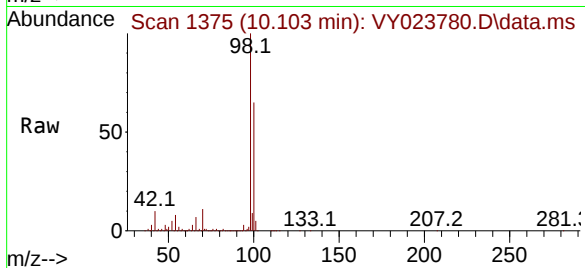
EME-TOP-SOIL

Tgt Ion: 43 Resp: 5021

Ion Ratio Lower Upper

43 100

58 203.6 34.8 52.2#



#62

4-Bromofluorobenzene

Concen: 37.951 ug/l

RT: 12.402 min Scan# 1752

Delta R.T. 0.000 min

Lab File: VY023780.D

Acq: 13 Nov 2025 12:38

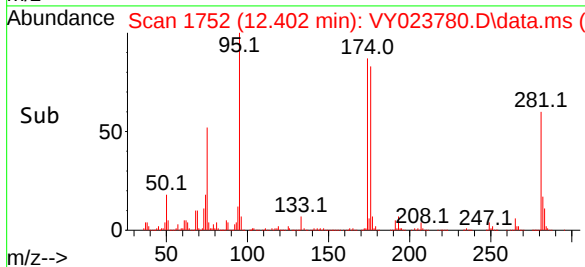
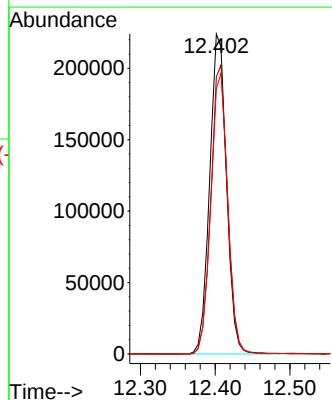
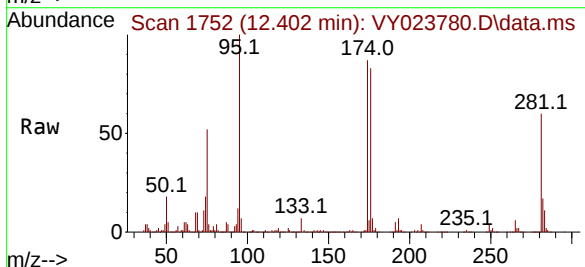
Tgt Ion: 95 Resp: 350378

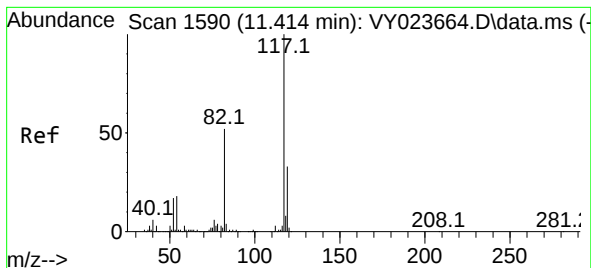
Ion Ratio Lower Upper

95 100

174 89.7 0.0 184.8

176 87.8 0.0 181.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.414 min Scan# 11

Delta R.T. 0.000 min

Lab File: VY023780.D

Acq: 13 Nov 2025 12:38

Instrument :

MSVOA\_Y

ClientSampleId :

EME-TOP-SOIL

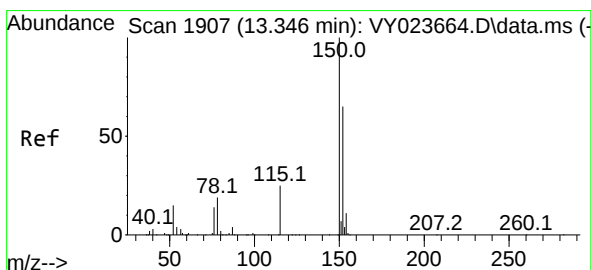
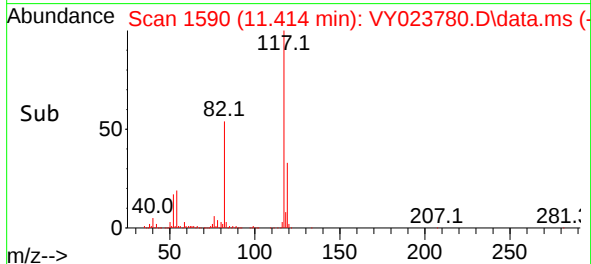
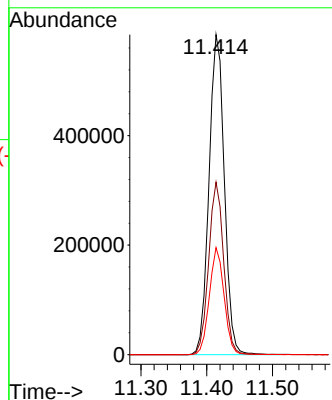
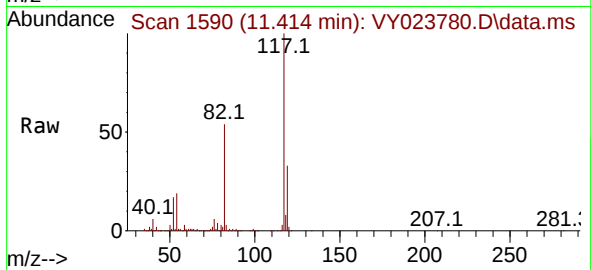
Tgt Ion:117 Resp: 948550

Ion Ratio Lower Upper

117 100

82 53.9 41.2 61.8

119 33.4 26.2 39.2



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023780.D

Acq: 13 Nov 2025 12:38

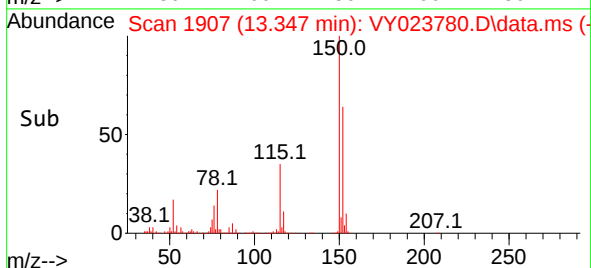
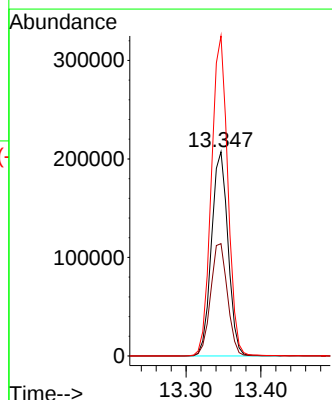
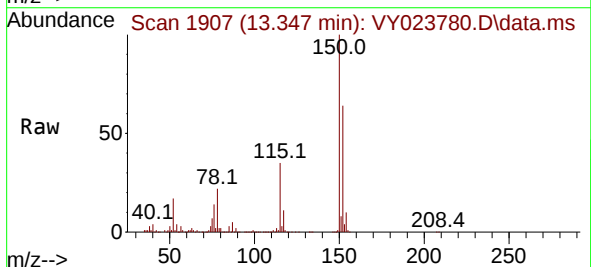
Tgt Ion:152 Resp: 319105

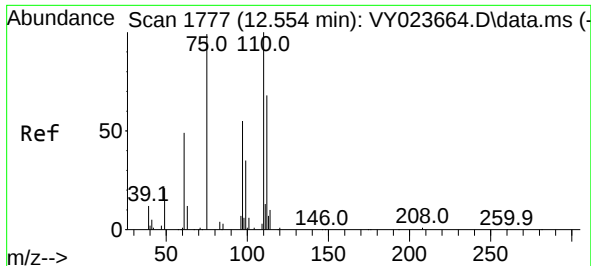
Ion Ratio Lower Upper

152 100

115 56.2 27.5 82.5

150 155.9 0.0 349.0

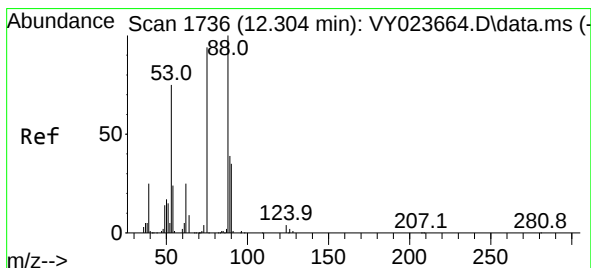
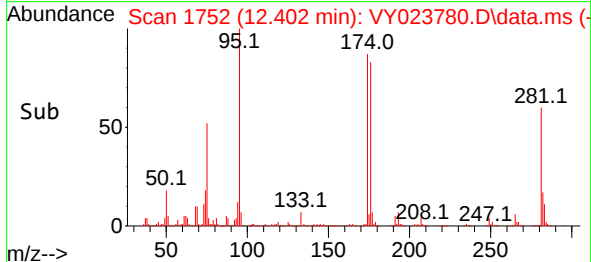
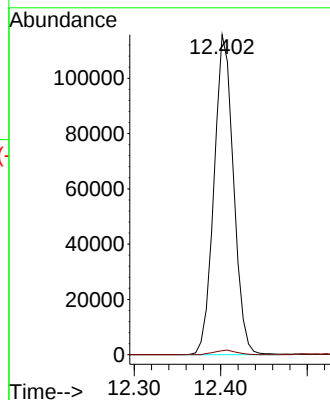
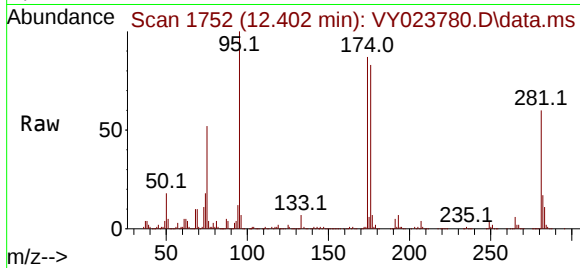




#76  
1,2,3-Trichloropropane  
Concen: 70.108 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. -0.152 min  
Lab File: VY023780.D  
Acq: 13 Nov 2025 12:38

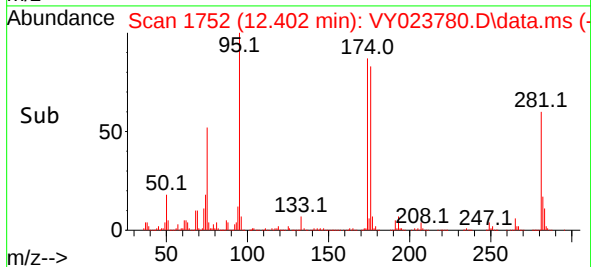
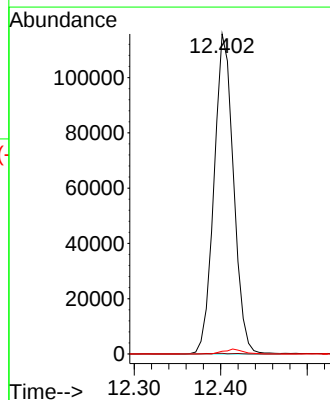
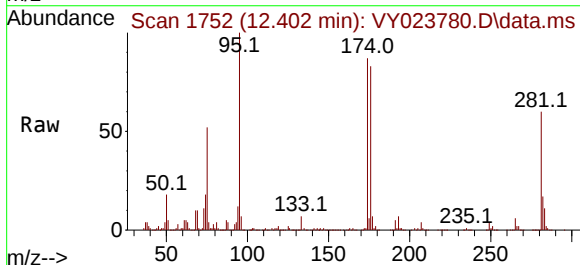
Instrument :  
MSVOA\_Y  
ClientSampleId :  
EME-TOP-SOIL

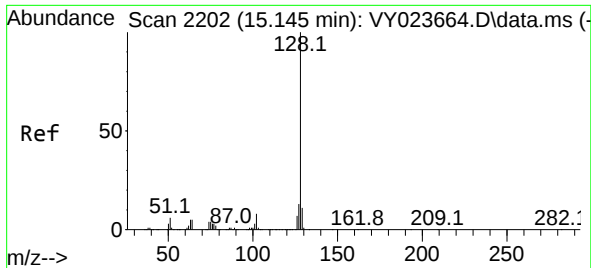
Tgt Ion: 75 Resp: 181057  
Ion Ratio Lower Upper  
75 100  
77 1.6 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 158.439 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. 0.098 min  
Lab File: VY023780.D  
Acq: 13 Nov 2025 12:38

Tgt Ion: 75 Resp: 181057  
Ion Ratio Lower Upper  
75 100  
53 0.2 69.6 104.4#  
89 1.5 38.2 57.4#





#95  
Naphthalene  
Concen: 5.385 ug/l  
RT: 15.139 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VY023780.D  
Acq: 13 Nov 2025 12:38

Instrument :  
MSVOA\_Y  
ClientSampleId :  
EME-TOP-SOIL

Tgt Ion:128 Resp: 1290  
Ion Ratio Lower Upper  
128 100  
127 3.0 10.5 15.7#  
129 7.9 8.8 13.2#

