

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041825\  
 Data File : VX045847.D  
 Acq On : 18 Apr 2025 11:05  
 Operator : JC/MD  
 Sample : Q1821-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SOIL-CUTTING

Quant Time: Apr 18 23:35:25 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X040225W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 02 03:11:43 2025  
 Response via : Initial Calibration

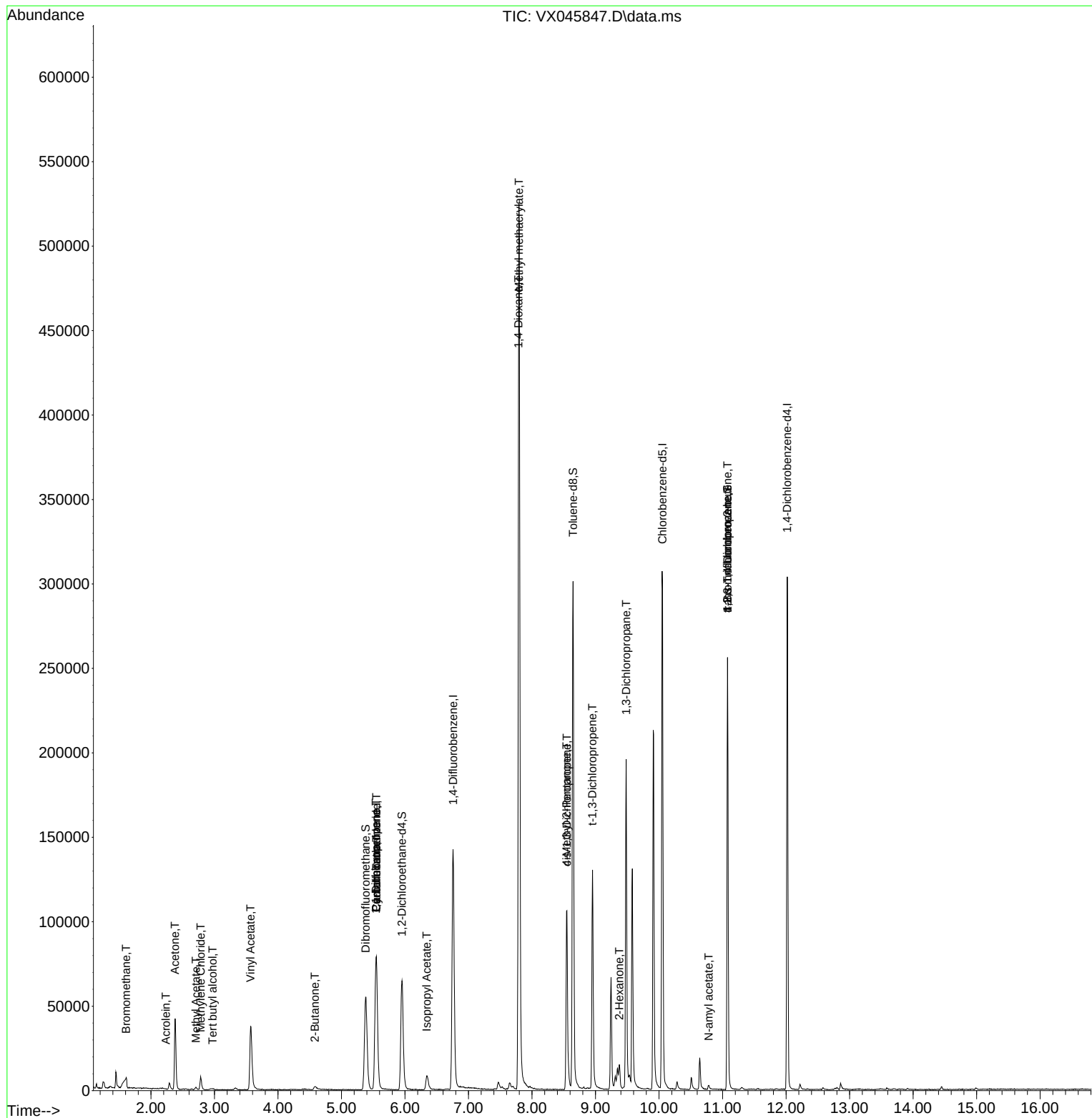
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 69658    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 135710   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 127349   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 55643    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 66796    | 52.436   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 104.880% |          |
| 35) Dibromofluoromethane      | 5.379  | 113   | 47769    | 49.611   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 99.220%  |          |
| 50) Toluene-d8                | 8.647  | 98    | 171867   | 51.139   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 102.280% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 65972    | 53.892   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 107.780% |          |
| Target Compounds              |        |       |          |          |            | Qvalue   |
| 5) Bromomethane               | 1.605  | 94    | 108      | 0.233    | ug/l #     | 3        |
| 11) Tert butyl alcohol        | 2.971  | 59    | 875      | 5.111    | ug/l #     | 72       |
| 13) Acrolein                  | 2.233  | 56    | 93       | 0.394    | ug/l       | 87       |
| 16) Acetone                   | 2.379  | 43    | 45064    | 86.151   | ug/l       | 99       |
| 18) Methyl Acetate            | 2.709  | 43    | 1916     | 1.591    | ug/l       | 94       |
| 20) Methylene Chloride        | 2.782  | 84    | 3085     | 3.150    | ug/l       | 98       |
| 23) Vinyl Acetate             | 3.568  | 43    | 690      | 0.256    | ug/l #     | 74       |
| 25) 2-Butanone                | 4.580  | 43    | 5223     | 6.821    | ug/l #     | 87       |
| 31) Cyclohexane               | 5.550  | 56    | 2053     | 1.314    | ug/l #     | 14       |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 6903     | 5.310    | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 8045     | 5.726    | ug/l #     | 15       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 12906    | 5.197    | ug/l       | 97       |
| 48) Methyl methacrylate       | 7.793  | 41    | 52884    | 41.248   | ug/l #     | 48       |
| 49) 1,4-Dioxane               | 7.787  | 88    | 20       | 0.862    | ug/l #     | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.543  | 43    | 45110    | 27.404   | ug/l #     | 48       |
| 53) t-1,3-Dichloropropene     | 8.951  | 75    | 252      | 2.454    | ug/l #     | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 16435    | 11.516   | ug/l #     | 69       |
| 57) 1,3-Dichloropropane       | 9.482  | 76    | 1648     | 0.989    | ug/l #     | 42       |
| 59) 2-Hexanone                | 9.372  | 43    | 12487    | 10.244   | ug/l #     | 28       |
| 74) N-amyl acetate            | 10.780 | 43    | 2488     | 1.167    | ug/l #     | 47       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 39097    | 28.806   | ug/l #     | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 39097    | 97.763   | ug/l #     | 1        |

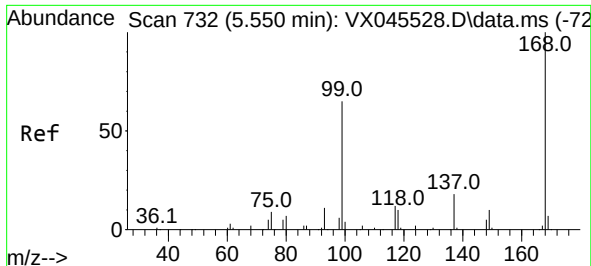
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX041825\  
Data File : VX045847.D  
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Quant Time: Apr 18 23:35:25 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X040225W.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 02 03:11:43 2025  
Response via : Initial Calibration

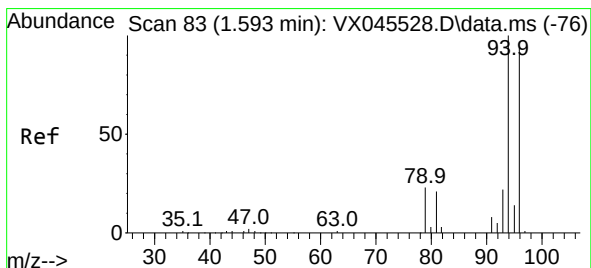
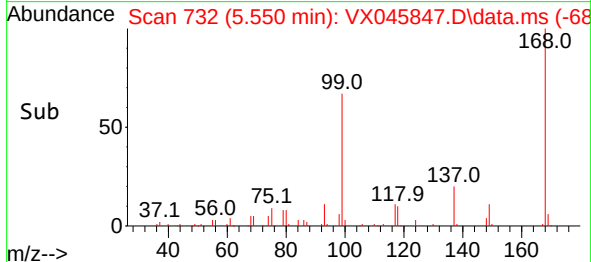
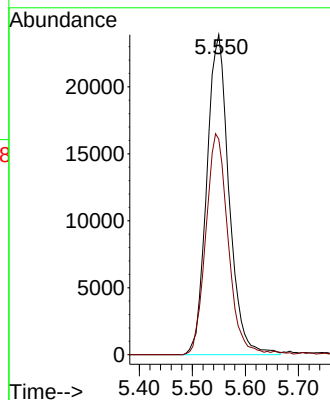
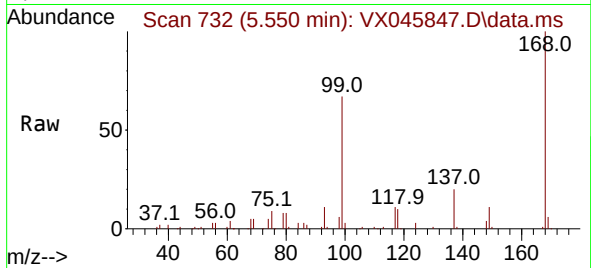




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

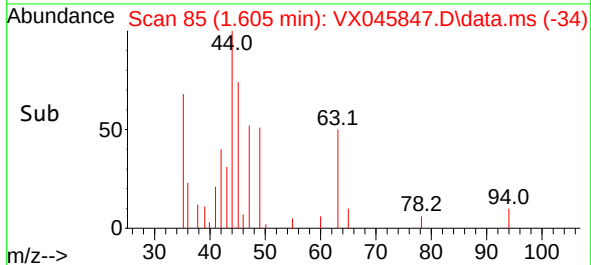
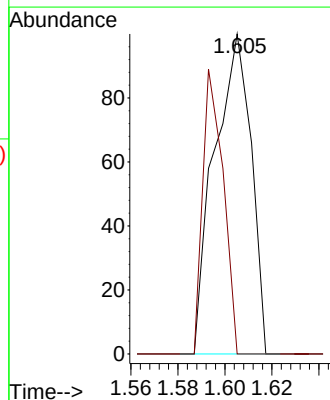
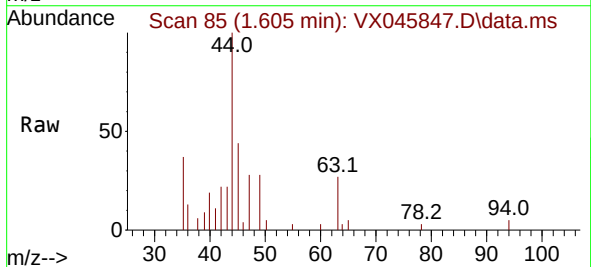
Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-CUTTING

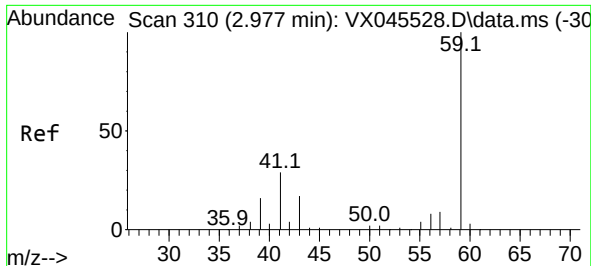
Tgt Ion:168 Resp: 69658  
Ion Ratio Lower Upper  
168 100  
99 67.3 52.3 78.5



#5  
Bromomethane  
Concen: 0.233 ug/l  
RT: 1.605 min Scan# 85  
Delta R.T. 0.012 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

Tgt Ion: 94 Resp: 108  
Ion Ratio Lower Upper  
94 100  
96 0.0 74.8 112.2#

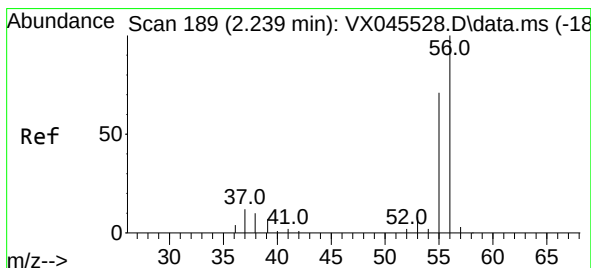
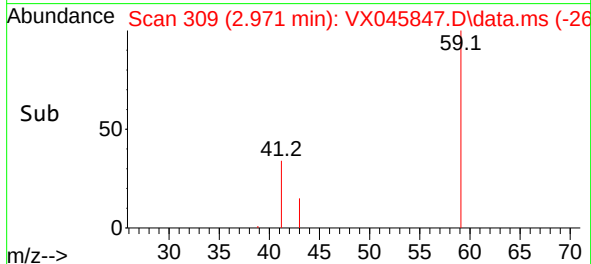
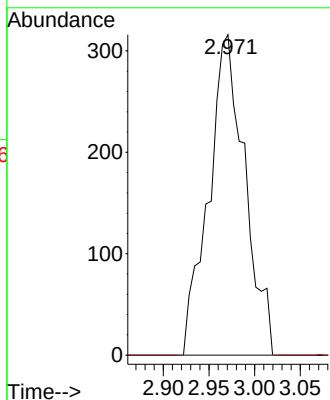
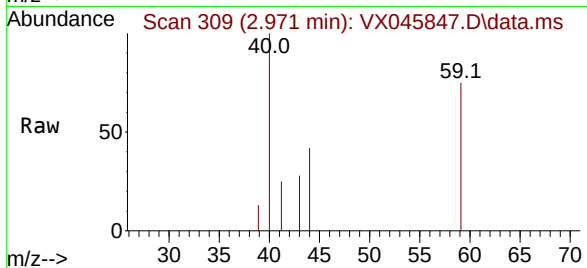




#11  
Tert butyl alcohol  
Concen: 5.111 ug/l  
RT: 2.971 min Scan# 309  
Delta R.T. -0.006 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

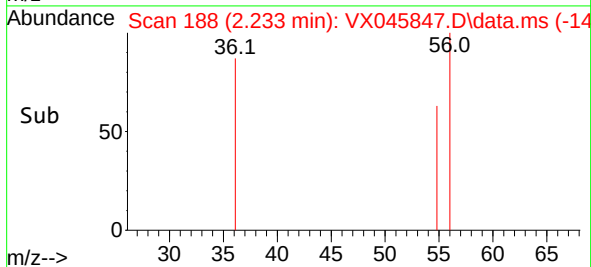
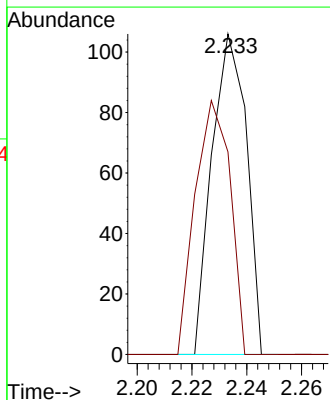
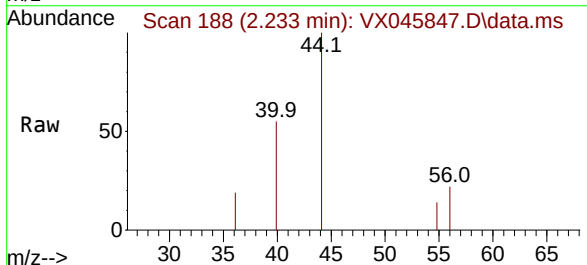
Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-CUTTING

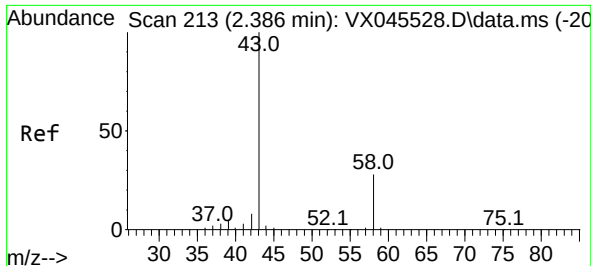
Tgt Ion: 59 Resp: 875  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#



#13  
Acrolein  
Concen: 0.394 ug/l  
RT: 2.233 min Scan# 188  
Delta R.T. -0.006 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

Tgt Ion: 56 Resp: 93  
Ion Ratio Lower Upper  
56 100  
55 80.6 56.2 84.2

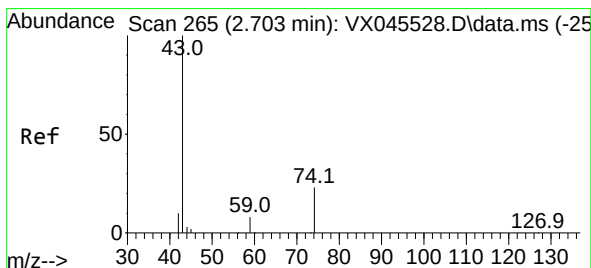
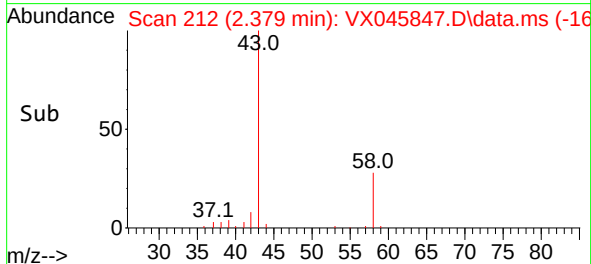
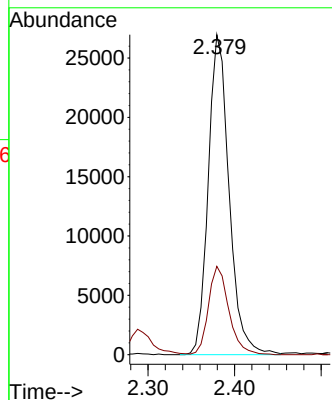
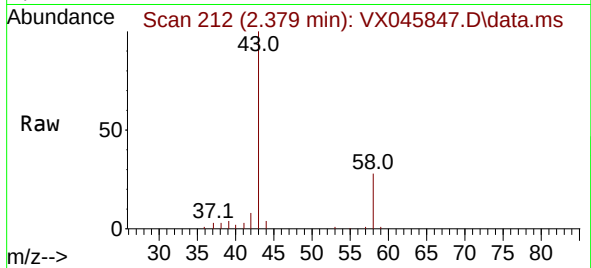




#16  
Acetone  
Concen: 86.151 ug/l  
RT: 2.379 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

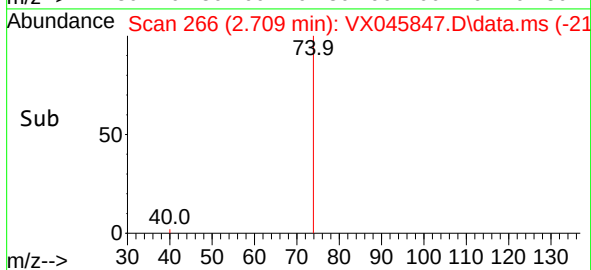
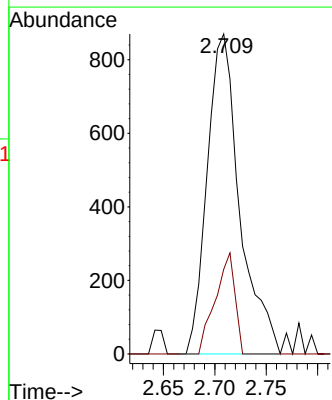
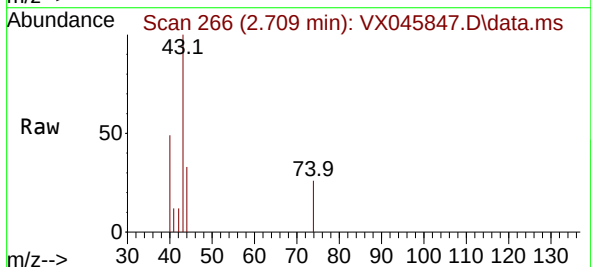
Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-CUTTING

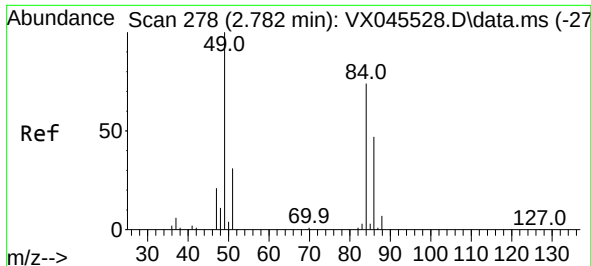
Tgt Ion: 43 Resp: 45064  
Ion Ratio Lower Upper  
43 100  
58 27.6 22.3 33.5



#18  
Methyl Acetate  
Concen: 1.591 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.006 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

Tgt Ion: 43 Resp: 1916  
Ion Ratio Lower Upper  
43 100  
74 18.9 17.5 26.3

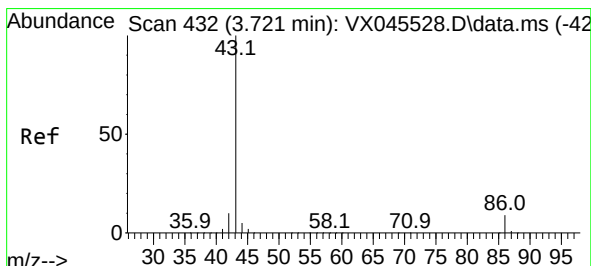
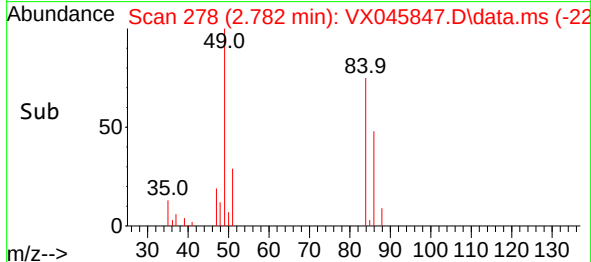
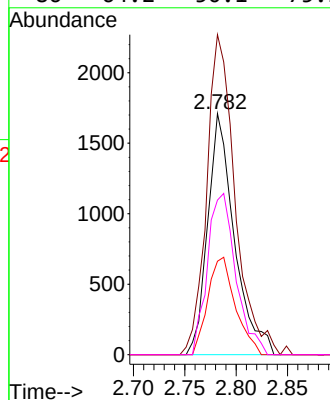
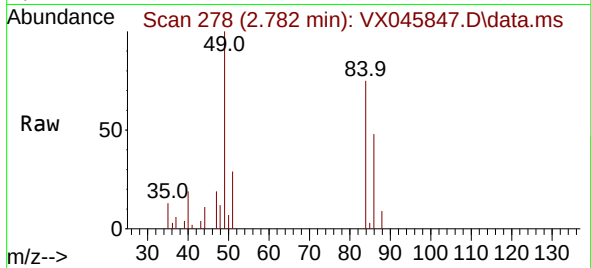




#20  
Methylene Chloride  
Concen: 3.150 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

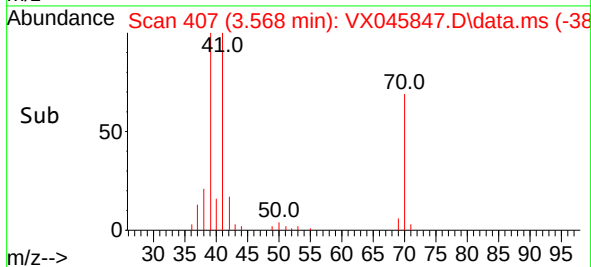
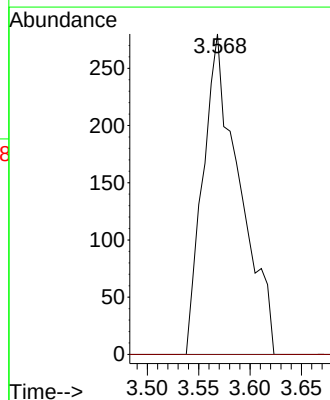
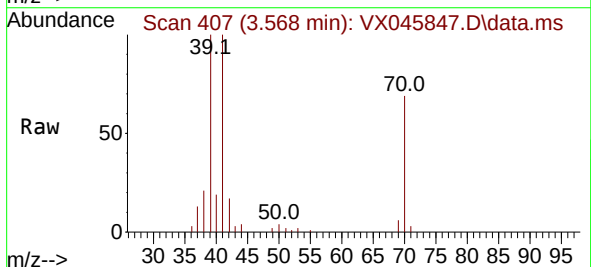
Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-CUTTING

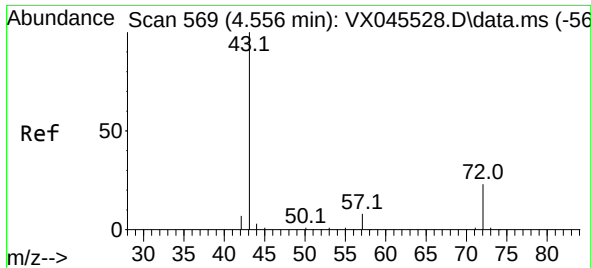
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 3085  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 132.7 | 107.5 | 161.3 |
| 51       | 38.8  | 33.0  | 49.6  |
| 86       | 64.2  | 50.1  | 75.1  |



#23  
Vinyl Acetate  
Concen: 0.256 ug/l  
RT: 3.568 min Scan# 407  
Delta R.T. -0.153 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 690   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 86       | 0.0   | 7.5   | 11.3# |

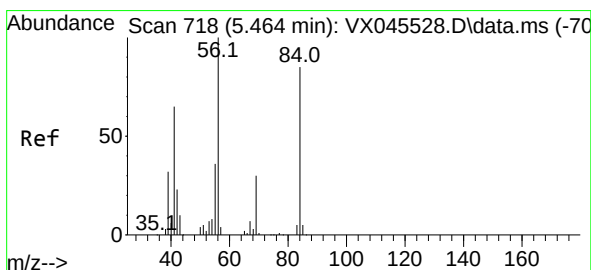
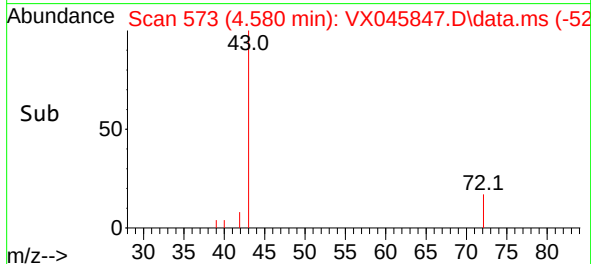
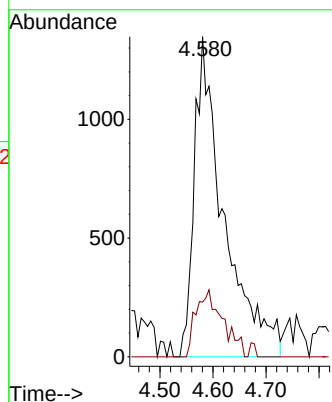
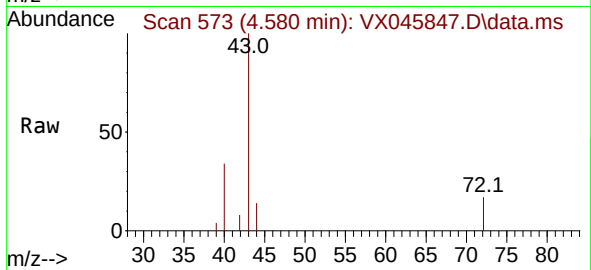




#25  
2-Butanone  
Concen: 6.821 ug/l  
RT: 4.580 min Scan# 51  
Delta R.T. 0.024 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

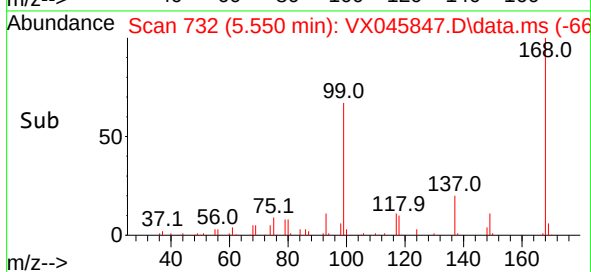
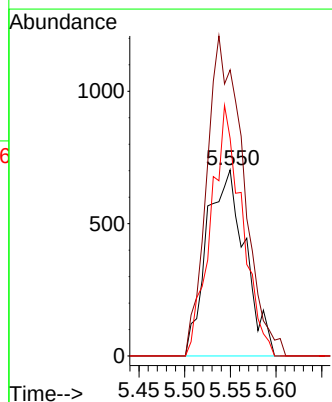
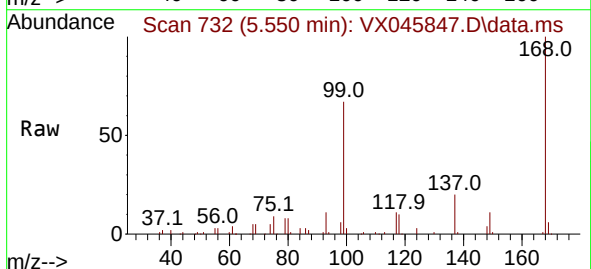
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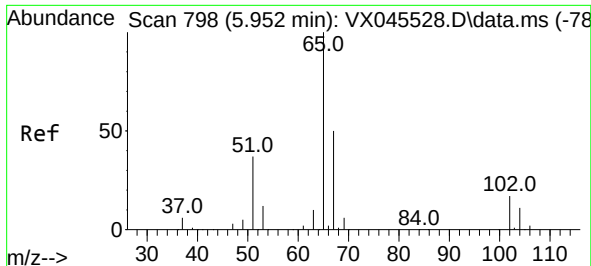
Tgt Ion: 43 Resp: 5223  
Ion Ratio Lower Upper  
43 100  
72 17.1 18.6 28.0#



#31  
Cyclohexane  
Concen: 1.314 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. 0.085 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

Tgt Ion: 56 Resp: 2053  
Ion Ratio Lower Upper  
56 100  
69 153.8 23.6 35.4#  
84 116.9 67.7 101.5#





#33

1,2-Dichloroethane-d4

Concen: 52.436 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX045847.D

Acq: 18 Apr 2025 11:05

Instrument :

MSVOA\_X

ClientSampleId :

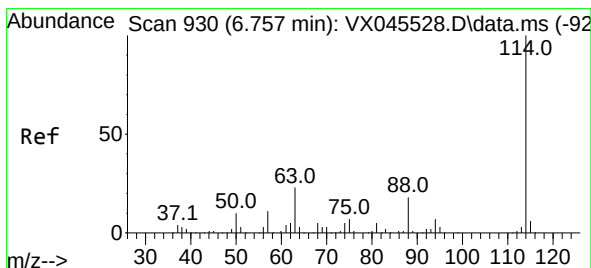
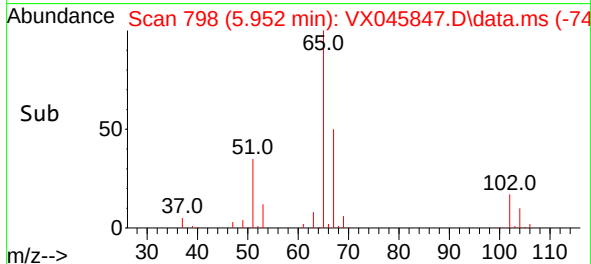
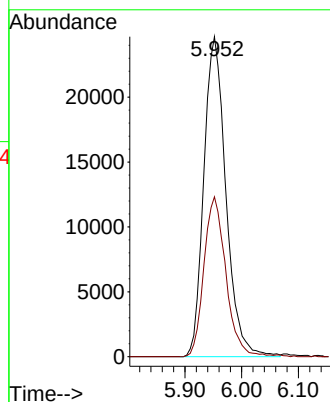
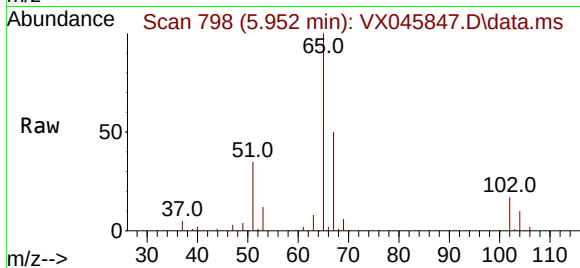
SOIL-CUTTING

Tgt Ion: 65 Resp: 66796

Ion Ratio Lower Upper

65 100

67 49.5 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. -0.000 min

Lab File: VX045847.D

Acq: 18 Apr 2025 11:05

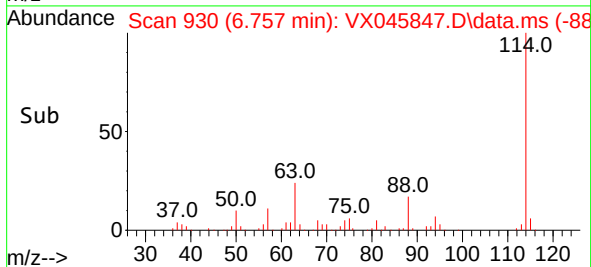
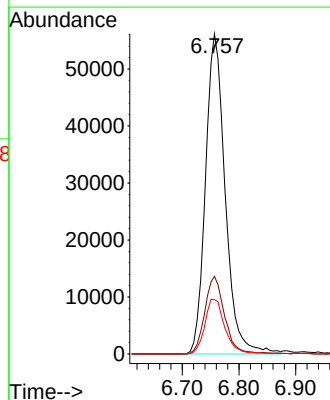
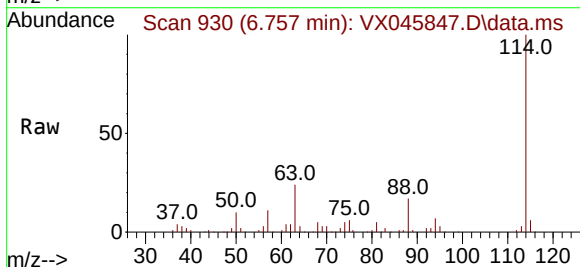
Tgt Ion: 114 Resp: 135710

Ion Ratio Lower Upper

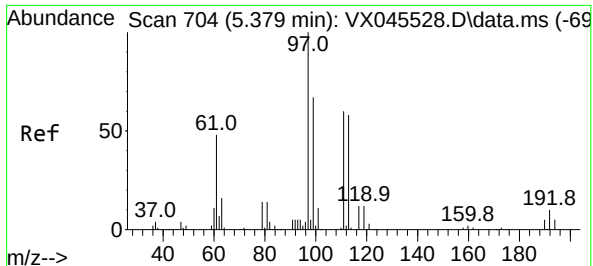
114 100

63 24.2 0.0 46.8

88 16.9 0.0 35.4



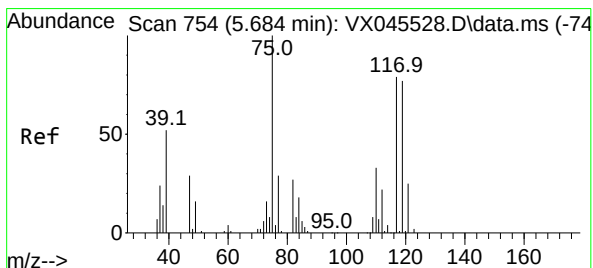
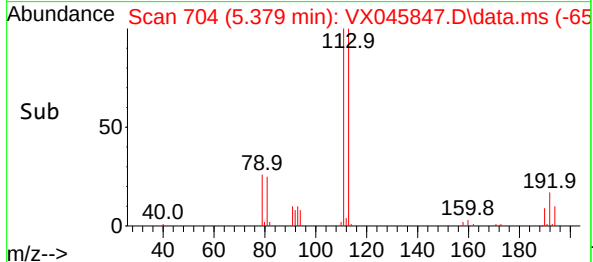
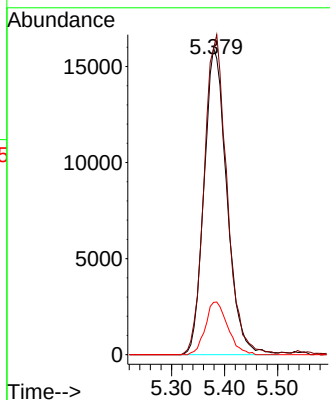
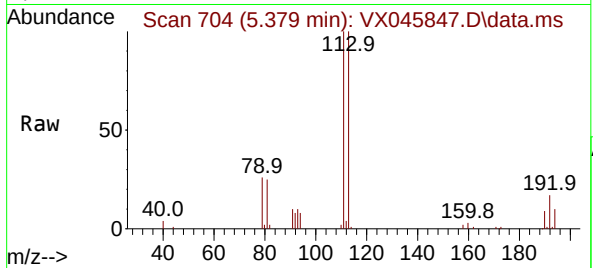




#35  
Dibromofluoromethane  
Concen: 49.611 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.000 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

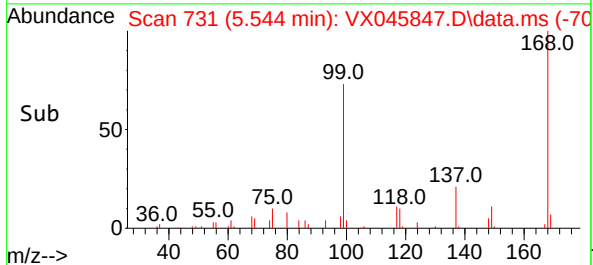
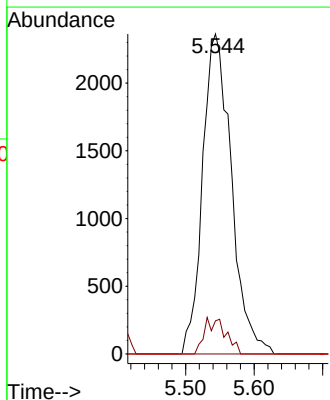
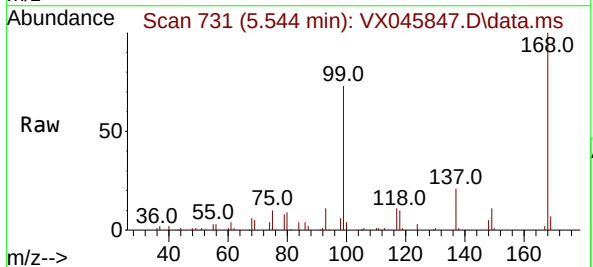
Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-CUTTING

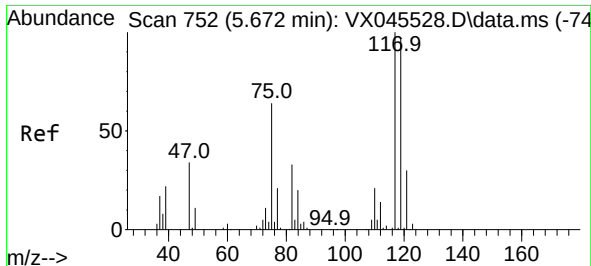
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 47769 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 104.1 | 81.8  | 122.6 |
| 192      | 16.9  | 13.8  | 20.6  |



#36  
1,1-Dichloropropene  
Concen: 5.310 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.140 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

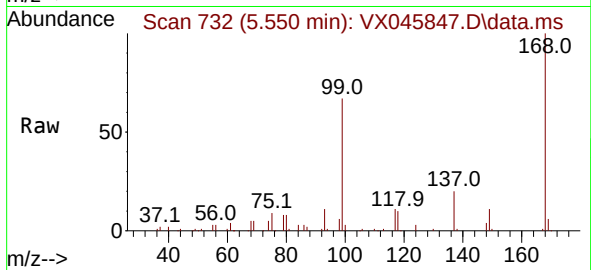
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 6903  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 8.2   | 16.9  | 50.6# |
| 77       | 0.0   | 25.0  | 37.4# |



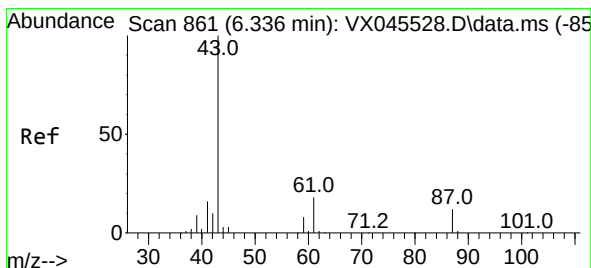
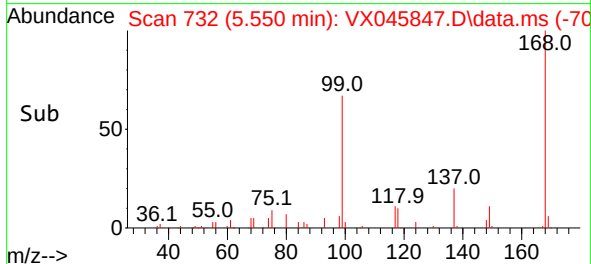
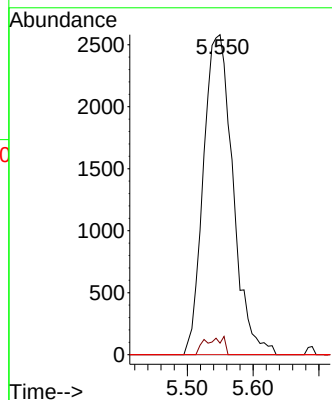


#38  
Carbon Tetrachloride  
Concen: 5.726 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-CUTTING

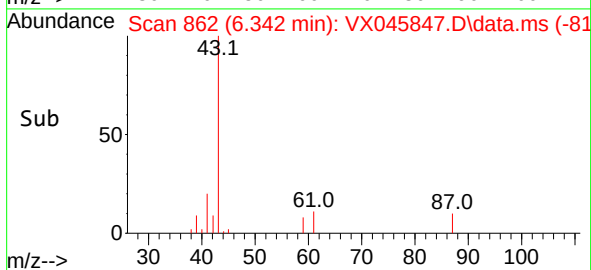
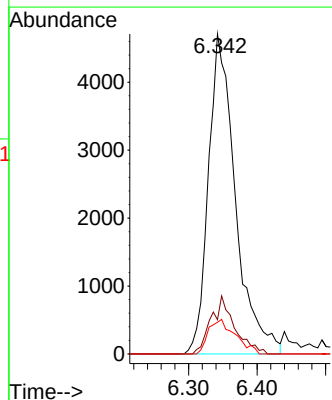
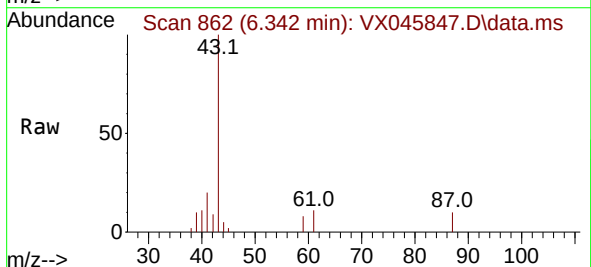


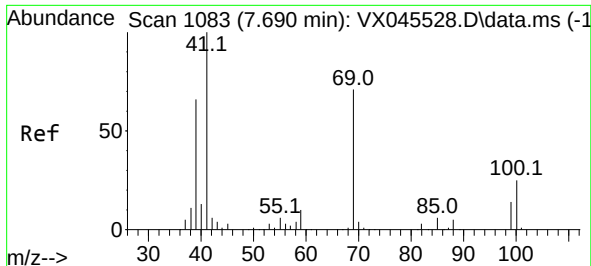
Tgt Ion: 117 Resp: 8045  
Ion Ratio Lower Upper  
117 100  
119 3.6 76.9 115.3#  
121 0.0 24.2 36.2#



#43  
Isopropyl Acetate  
Concen: 5.197 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.006 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

Tgt Ion: 43 Resp: 12906  
Ion Ratio Lower Upper  
43 100  
61 15.9 14.1 21.1  
87 10.7 9.2 13.8

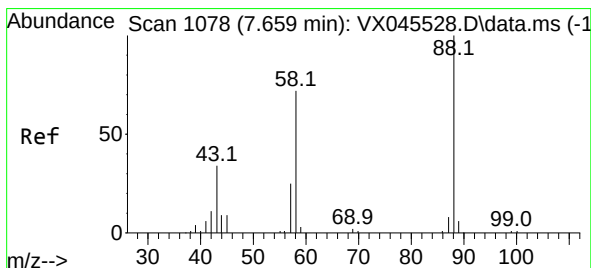
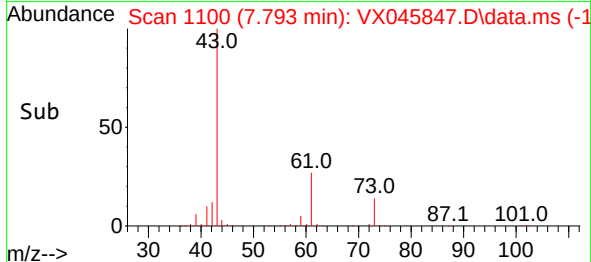
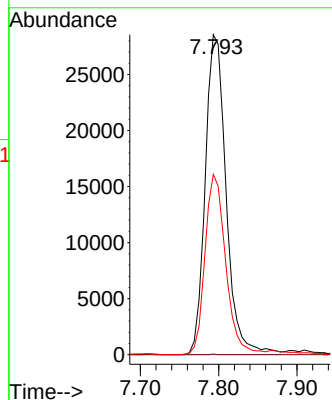
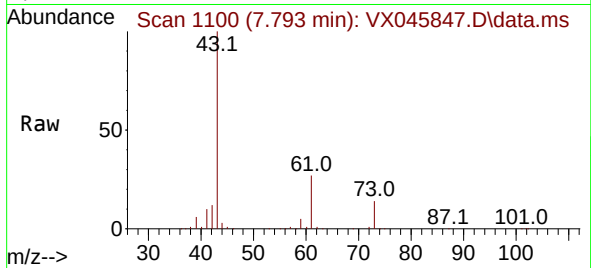




#48  
Methyl methacrylate  
Concen: 41.248 ug/l  
RT: 7.793 min Scan# 1100  
Delta R.T. 0.104 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

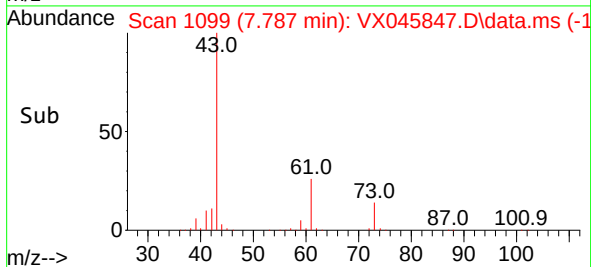
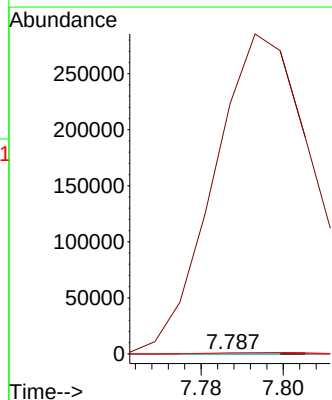
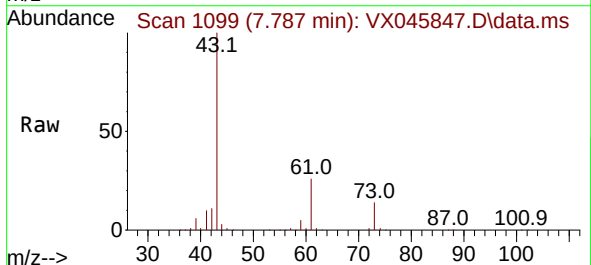
Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-CUTTING

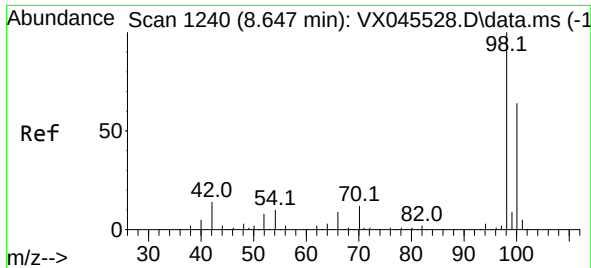
Tgt Ion: 41 Resp: 52884  
Ion Ratio Lower Upper  
41 100  
69 0.0 58.2 87.2#  
39 55.9 53.6 80.4



#49  
1,4-Dioxane  
Concen: 0.862 ug/l  
RT: 7.787 min Scan# 1099  
Delta R.T. 0.128 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

Tgt Ion: 88 Resp: 20  
Ion Ratio Lower Upper  
88 100  
43 2569130.0 32.2 48.4#  
58 11500.0 58.6 88.0#

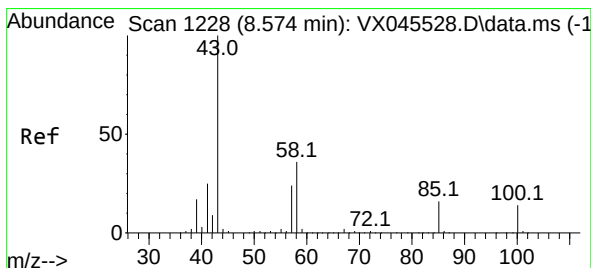
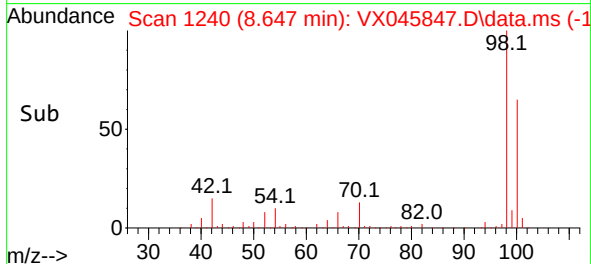
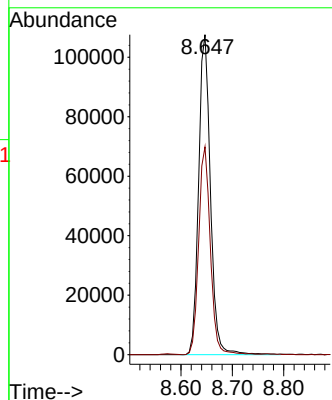
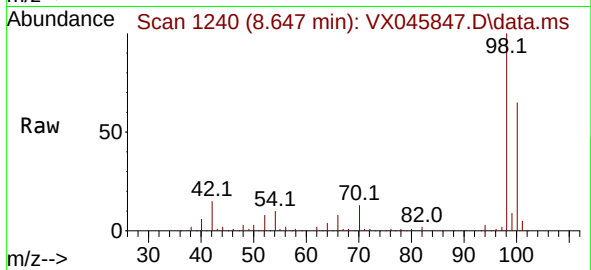




#50  
Toluene-d8  
Concen: 51.139 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

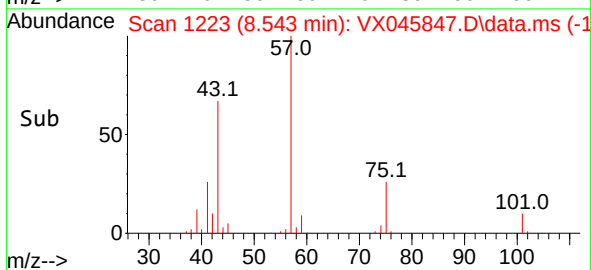
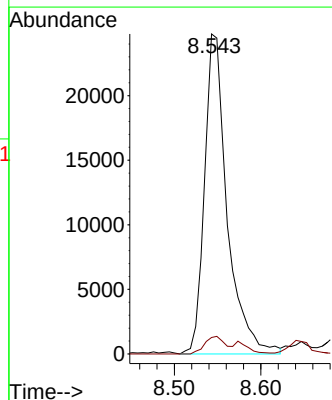
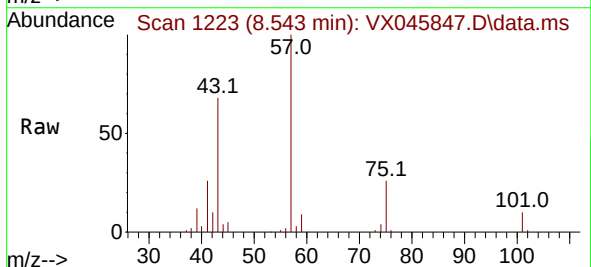
Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-CUTTING

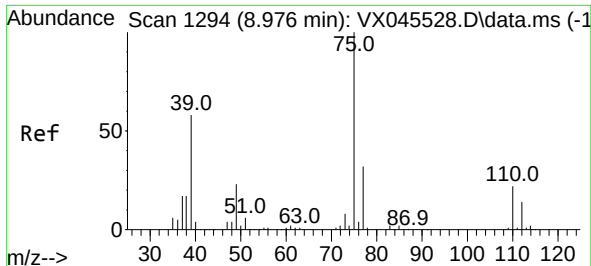
Tgt Ion: 98 Resp: 171867  
Ion Ratio Lower Upper  
98 100  
100 64.3 52.2 78.4



#51  
4-Methyl-2-Pentanone  
Concen: 27.404 ug/l  
RT: 8.543 min Scan# 1223  
Delta R.T. -0.031 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

Tgt Ion: 43 Resp: 45110  
Ion Ratio Lower Upper  
43 100  
58 5.2 28.5 42.7#





#53

t-1,3-Dichloropropene

Concen: 2.454 ug/l

RT: 8.951 min Scan# 11

Delta R.T. -0.025 min

Lab File: VX045847.D

Acq: 18 Apr 2025 11:05

Instrument :

MSVOA\_X

ClientSampleId :

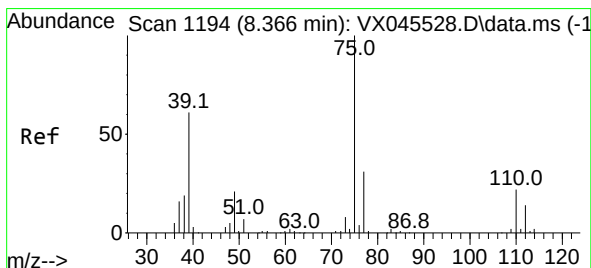
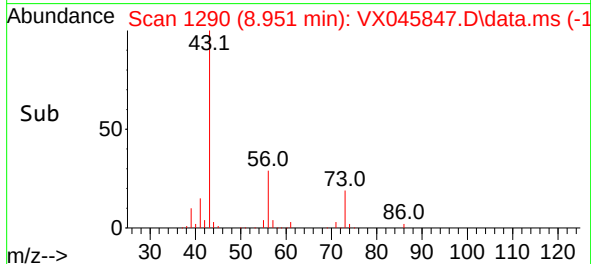
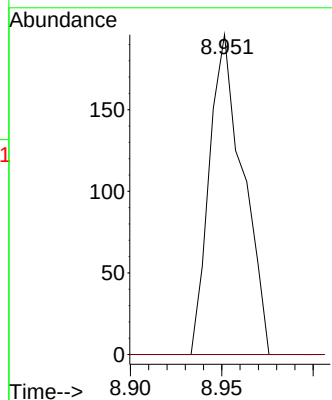
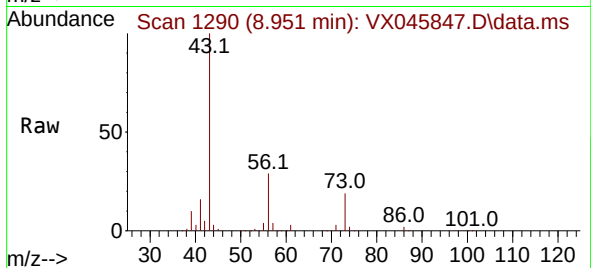
SOIL-CUTTING

Tgt Ion: 75 Resp: 252

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



#54

cis-1,3-Dichloropropene

Concen: 11.516 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX045847.D

Acq: 18 Apr 2025 11:05

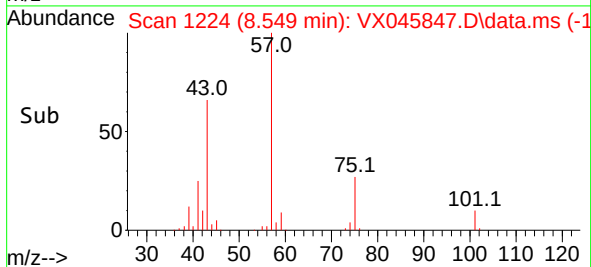
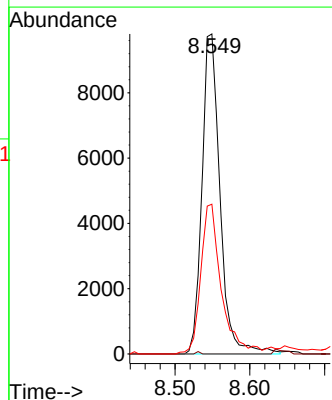
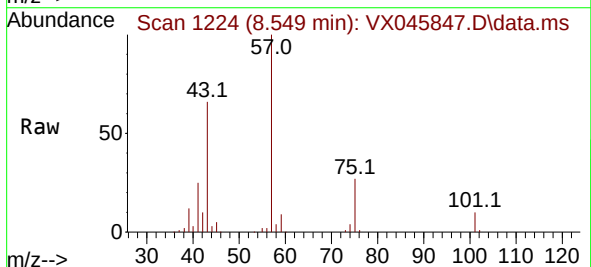
Tgt Ion: 75 Resp: 16435

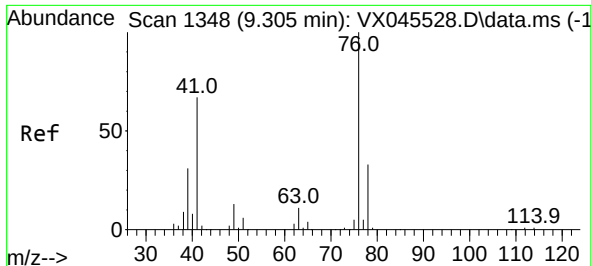
Ion Ratio Lower Upper

75 100

77 0.0 24.6 36.8#

39 46.3 48.4 72.6#





#57

1,3-Dichloropropane

Concen: 0.989 ug/l

RT: 9.482 min Scan# 11

Delta R.T. 0.177 min

Lab File: VX045847.D

Acq: 18 Apr 2025 11:05

Instrument :

MSVOA\_X

ClientSampleId :

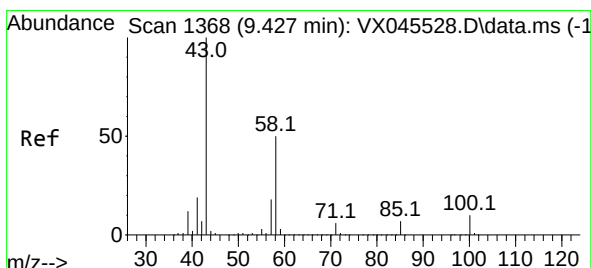
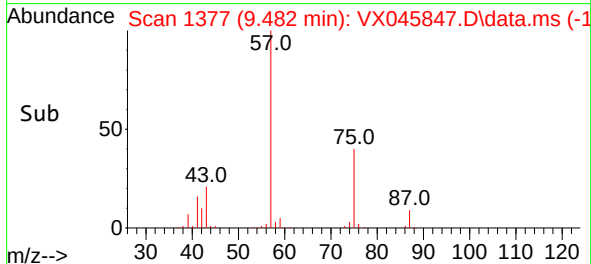
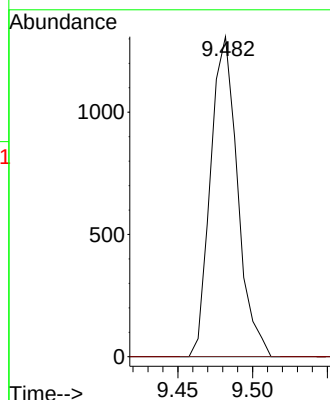
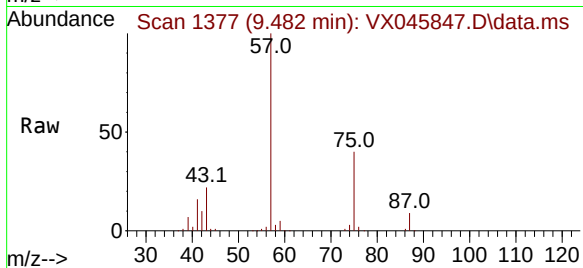
SOIL-CUTTING

Tgt Ion: 76 Resp: 1648

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 10.244 ug/l

RT: 9.372 min Scan# 1359

Delta R.T. -0.055 min

Lab File: VX045847.D

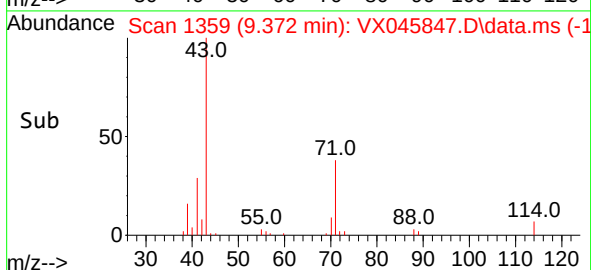
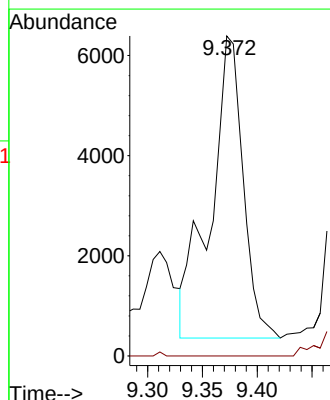
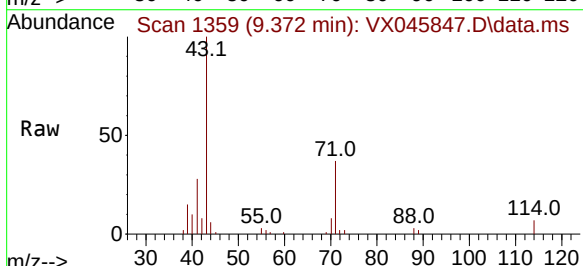
Acq: 18 Apr 2025 11:05

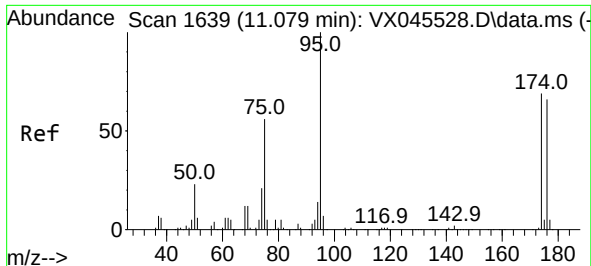
Tgt Ion: 43 Resp: 12487

Ion Ratio Lower Upper

43 100

58 0.0 24.9 74.6#

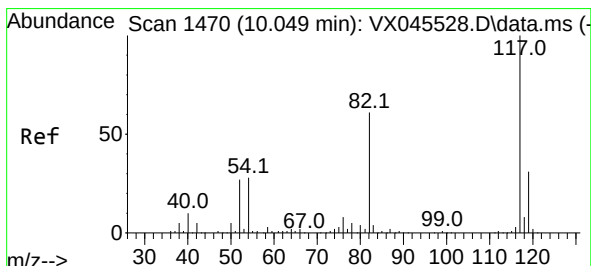
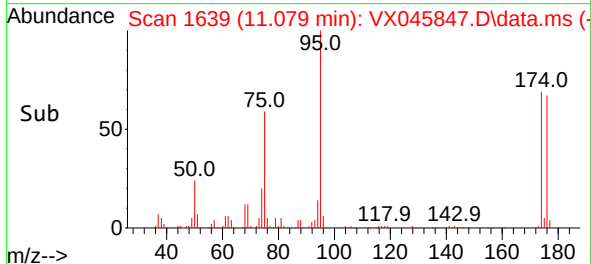
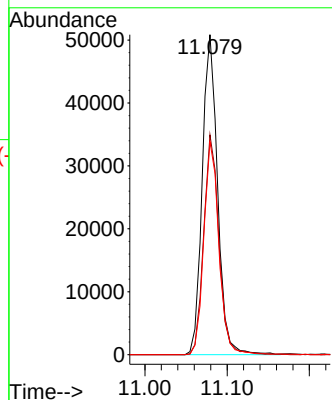
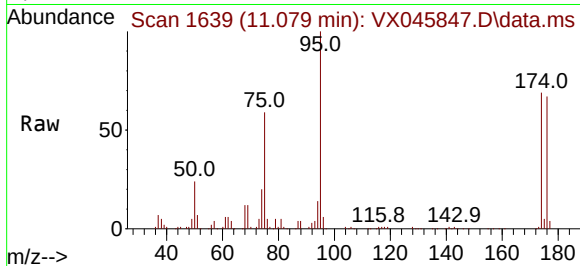




#62  
4-Bromofluorobenzene  
Concen: 53.892 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

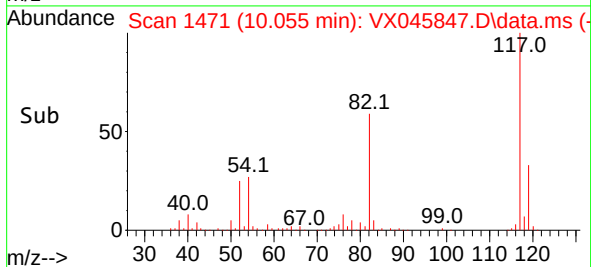
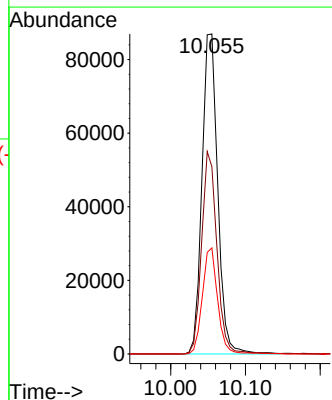
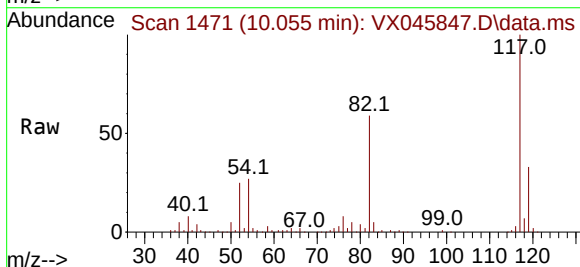
Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-CUTTING

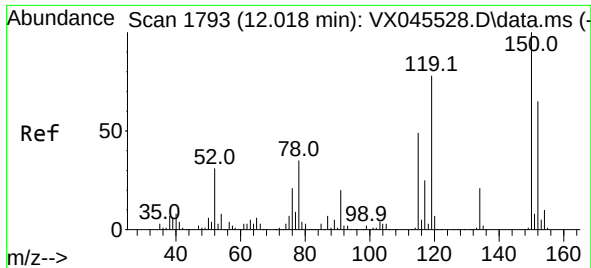
Tgt Ion: 95 Resp: 65972  
Ion Ratio Lower Upper  
95 100  
174 68.4 0.0 135.8  
176 65.5 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.006 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

Tgt Ion: 117 Resp: 127349  
Ion Ratio Lower Upper  
117 100  
82 58.5 49.2 73.8  
119 33.2 25.1 37.7

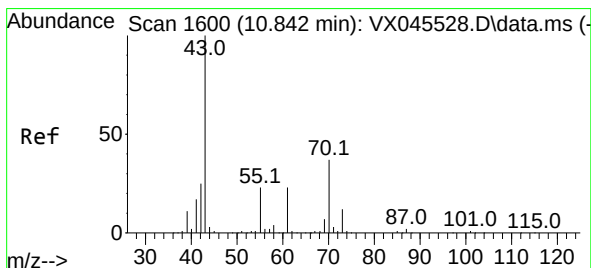
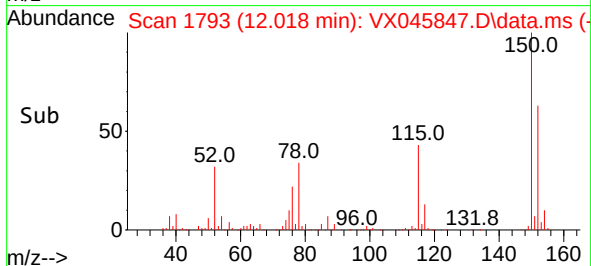
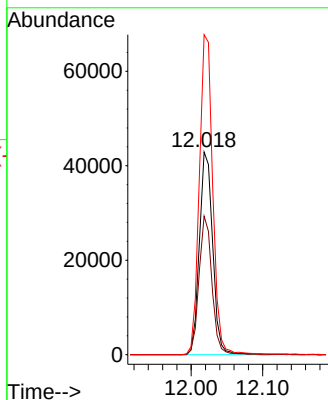
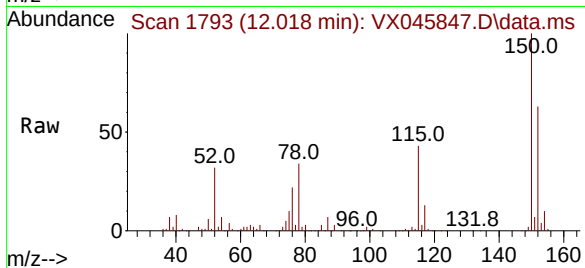




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.018 min Scan# 11  
 Delta R.T. -0.000 min  
 Lab File: VX045847.D  
 Acq: 18 Apr 2025 11:05

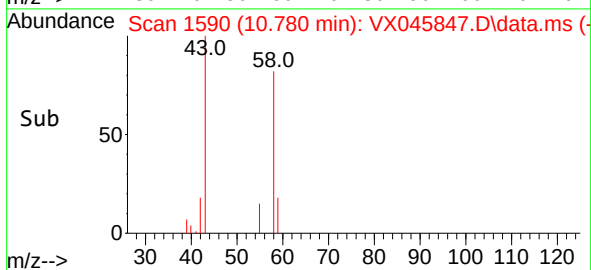
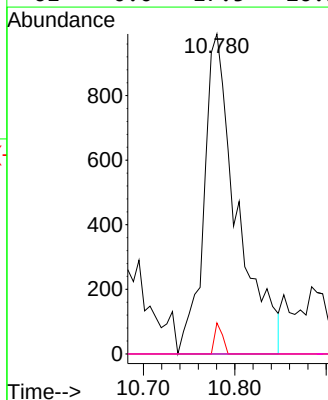
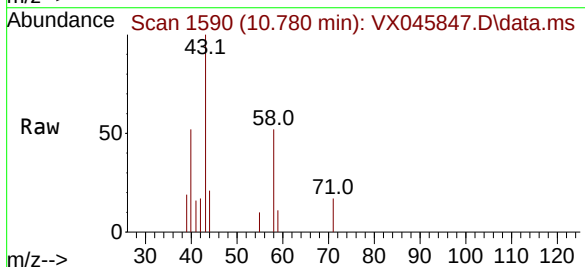
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 SOIL-CUTTING

Tgt Ion:152 Resp: 55643  
 Ion Ratio Lower Upper  
 152 100  
 115 66.1 46.9 140.7  
 150 158.6 0.0 349.4

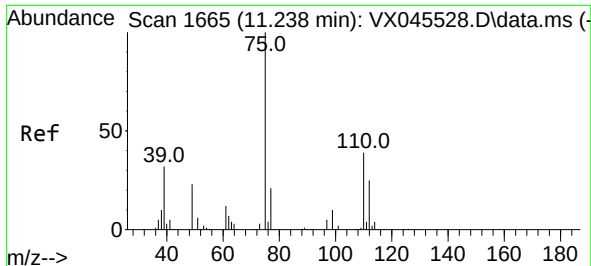


#74  
 N-ethyl acetate  
 Concen: 1.167 ug/l  
 RT: 10.780 min Scan# 1590  
 Delta R.T. -0.061 min  
 Lab File: VX045847.D  
 Acq: 18 Apr 2025 11:05

Tgt Ion: 43 Resp: 2488  
 Ion Ratio Lower Upper  
 43 100  
 70 0.0 30.1 45.1#  
 55 2.3 18.3 27.5#  
 61 0.0 17.5 26.3#



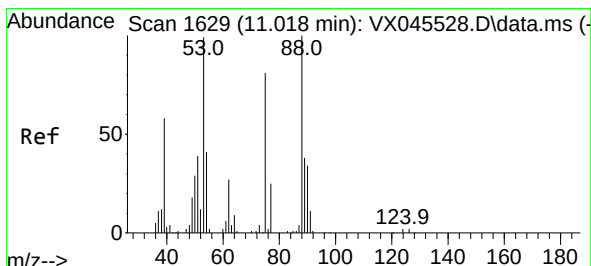
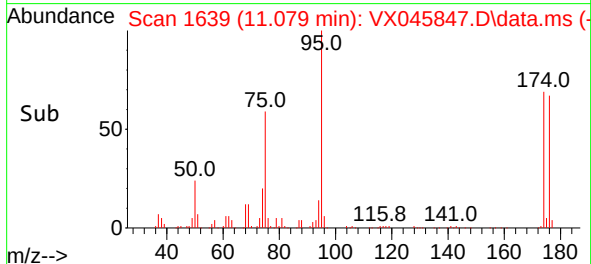
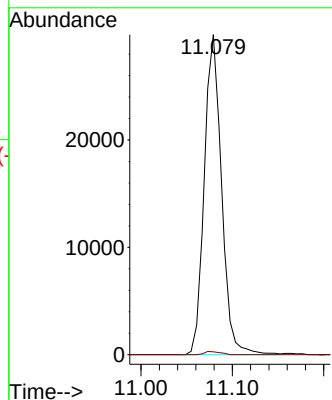
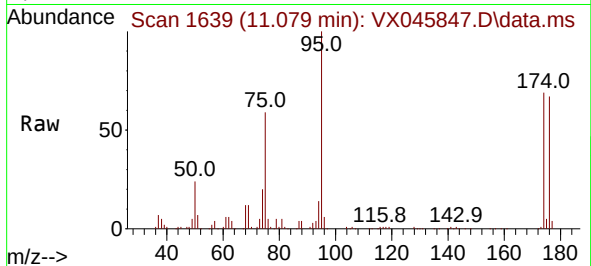




#76  
1,2,3-Trichloropropane  
Concen: 28.806 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

Instrument :  
MSVOA\_X  
ClientSampleId :  
SOIL-CUTTING

Tgt Ion: 75 Resp: 39097  
Ion Ratio Lower Upper  
75 100  
77 0.9 20.0 59.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 97.763 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX045847.D  
Acq: 18 Apr 2025 11:05

Tgt Ion: 75 Resp: 39097  
Ion Ratio Lower Upper  
75 100  
53 0.0 101.8 152.6#  
89 0.1 37.2 55.8#

