

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU080124\  
 Data File : VU060290.D  
 Acq On : 01 Aug 2024 11:15  
 Operator : MD/SY  
 Sample : P3391-05  
 Misc : 5.00g/5.0mL/100uL/5.0mL/MSVOA\_U/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 MDL-MED-SOIL-QT3-2024-05

Quant Time: Aug 02 02:47:06 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM070224WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 02 02:32:23 2024  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) 1,4-Difluorobenzene     | 6.242  | 114  | 214850   | 50.000 | ug/L  | 0.00     |
| 28) Chlorobenzene-d5       | 9.412  | 117  | 217743   | 50.000 | ug/L  | 0.00     |
| 58) 1,4-Dichlorobenzene-d4 | 11.807 | 152  | 89502    | 50.000 | ug/L  | 0.00     |

|                               |         |       |          |          |      |          |
|-------------------------------|---------|-------|----------|----------|------|----------|
| System Monitoring Compounds   |         |       |          |          |      |          |
| 4) Vinyl Chloride-d3          | 1.596   | 65    | 77832    | 56.421   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 135 | Recovery | =    | 112.840% |
| 7) Chloroethane-d5            | 1.904   | 69    | 59325    | 51.128   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 130 | Recovery | =    | 102.260% |
| 11) 1,1-Dichloroethene-d2     | 2.560   | 63    | 89939    | 36.699   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =    | 73.400%  |
| 21) 2-Butanone-d5             | 4.618   | 46    | 100382   | 104.708  | ug/L | 0.00     |
| Spiked Amount                 | 100.000 | Range | 40 - 130 | Recovery | =    | 104.710% |
| 24) Chloroform-d              | 5.055   | 84    | 122212   | 45.748   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =    | 91.500%  |
| 26) 1,2-Dichloroethane-d4     | 5.692   | 65    | 77907    | 49.048   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =    | 98.100%  |
| 32) Benzene-d6                | 5.718   | 84    | 249422   | 44.733   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 125 | Recovery | =    | 89.460%  |
| 36) 1,2-Dichloropropane-d6    | 6.682   | 67    | 86105    | 49.896   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 70 - 120 | Recovery | =    | 99.800%  |
| 41) Toluene-d8                | 7.891   | 98    | 210537   | 39.706   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =    | 79.420%# |
| 43) trans-1,3-Dichloroprop... | 8.174   | 79    | 33547    | 41.544   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 60 - 125 | Recovery | =    | 83.080%  |
| 47) 2-Hexanone-d5             | 8.627   | 63    | 56559    | 77.768   | ug/L | 0.00     |
| Spiked Amount                 | 100.000 | Range | 45 - 130 | Recovery | =    | 77.770%  |
| 56) 1,1,2,2-Tetrachloroeth... | 10.750  | 84    | 125232   | 47.280   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 65 - 120 | Recovery | =    | 94.560%  |
| 66) 1,2-Dichlorobenzene-d4    | 12.187  | 152   | 75867    | 46.129   | ug/L | 0.00     |
| Spiked Amount                 | 50.000  | Range | 80 - 120 | Recovery | =    | 92.260%  |

|                               |       |     |       |        |        |     |
|-------------------------------|-------|-----|-------|--------|--------|-----|
| Target Compounds              |       |     |       | Qvalue |        |     |
| 2) Dichlorodifluoromethane    | 1.380 | 85  | 2551  | 1.912  | ug/L   | 97  |
| 3) Chloromethane              | 1.518 | 50  | 3687  | 2.816  | ug/L   | 99  |
| 5) Vinyl chloride             | 1.602 | 62  | 4270  | 2.778  | ug/L # | 75  |
| 6) Bromomethane               | 1.846 | 94  | 2588  | 3.205  | ug/L   | 97  |
| 8) Chloroethane               | 1.924 | 64  | 2471  | 2.469  | ug/L   | 89  |
| 9) Trichlorofluoromethane     | 2.132 | 101 | 5186  | 2.423  | ug/L   | 97  |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.570 | 101 | 4009  | 2.943  | ug/L # | 78  |
| 12) 1,1-Dichloroethene        | 2.573 | 96  | 3753  | 2.946  | ug/L # | 1   |
| 13) Acetone                   | 2.628 | 43  | 4686  | 4.747  | ug/L   | 97  |
| 14) Carbon disulfide          | 2.788 | 76  | 7155  | 2.225  | ug/L   | 100 |
| 15) Methyl Acetate            | 2.952 | 43  | 4697  | 3.156  | ug/L # | 82  |
| 16) Methylene chloride        | 3.039 | 84  | 6210  | 3.866  | ug/L   | 91  |
| 17) trans-1,2-Dichloroethene  | 3.348 | 96  | 3335  | 2.543  | ug/L   | 84  |
| 18) Methyl tert-butyl Ether   | 3.354 | 73  | 10101 | 2.371  | ug/L   | 95  |
| 19) 1,1-Dichloroethane        | 3.862 | 63  | 7240  | 2.911  | ug/L   | 95  |
| 20) cis-1,2-Dichloroethene    | 4.663 | 96  | 3770  | 2.374  | ug/L   | 84  |
| 22) 2-Butanone                | 4.615 | 43  | 837   | 0.689  | ug/L # | 63  |
| 23) Bromochloromethane        | 4.962 | 128 | 695   | 0.830  | ug/L # | 74  |
| 25) Chloroform                | 5.081 | 83  | 8169  | 3.052  | ug/L   | 95  |

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 Quant Title : VOC Analysis  
 QLast Update : Fri Aug 02 02:32:23 2024  
 Response via : Initial Calibration

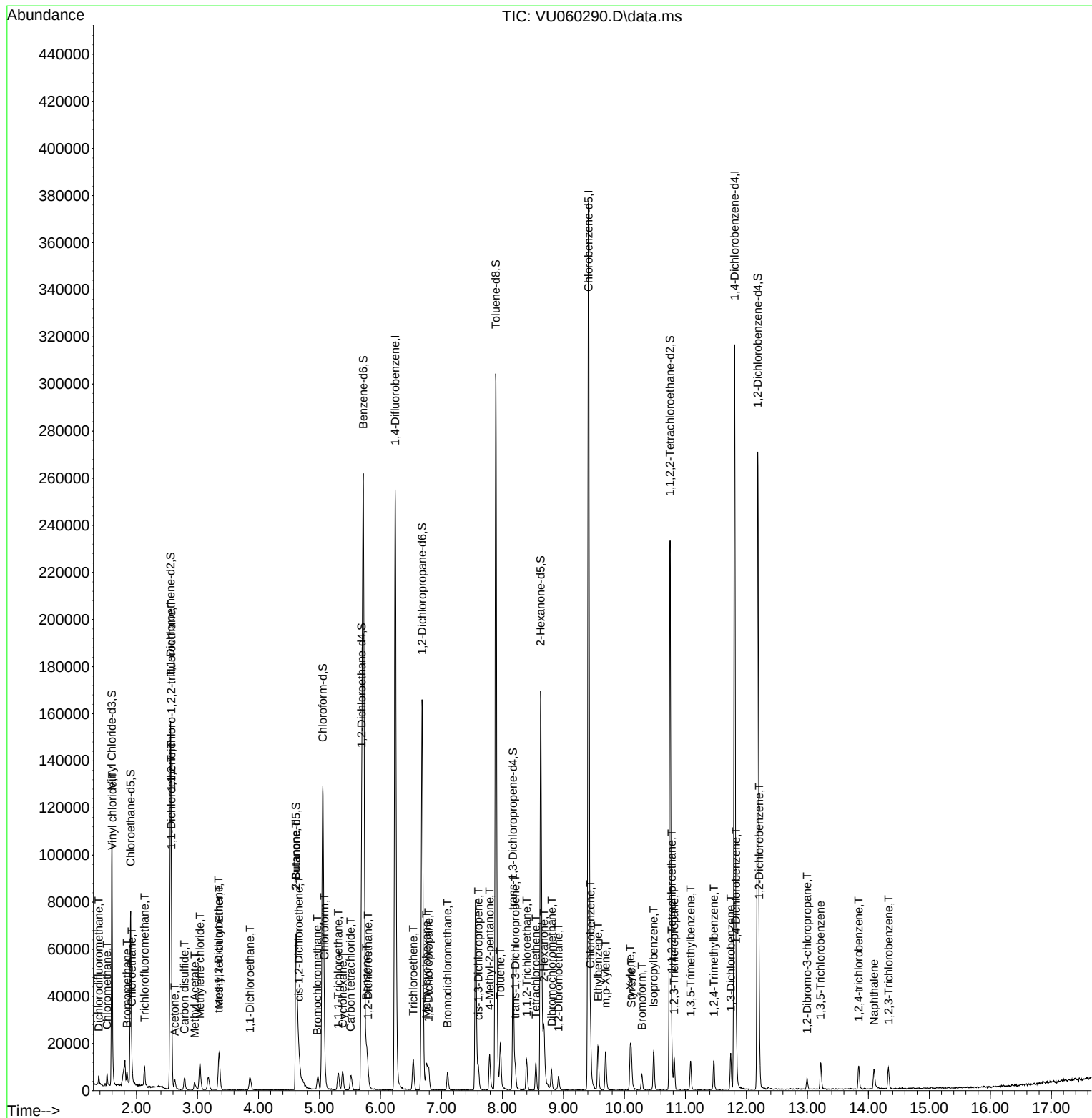
| Compound                      | R.T.   | QIon | Response | Conc  | Units  | Dev(Min) |
|-------------------------------|--------|------|----------|-------|--------|----------|
| 27) 1,2-Dichloroethane        | 5.795  | 62   | 5179     | 2.549 | ug/L   | 96       |
| 29) Cyclohexane               | 5.383  | 56   | 3577     | 1.835 | ug/L # | 92       |
| 30) 1,1,1-Trichloroethane     | 5.309  | 97   | 5493     | 2.435 | ug/L # | 84       |
| 31) Carbon tetrachloride      | 5.512  | 117  | 4644     | 2.492 | ug/L   | 97       |
| 33) Benzene                   | 5.769  | 78   | 15759    | 2.680 | ug/L   | 100      |
| 34) Trichloroethene           | 6.541  | 95   | 3962     | 2.525 | ug/L   | 96       |
| 35) Methylcyclohexane         | 6.753  | 83   | 3390     | 1.564 | ug/L # | 46       |
| 37) 1,2-Dichloropropane       | 6.788  | 63   | 4413     | 2.727 | ug/L # | 96       |
| 38) Bromodichloromethane      | 7.100  | 83   | 5406     | 2.636 | ug/L   | 93       |
| 39) cis-1,3-Dichloropropene   | 7.605  | 75   | 5753     | 2.323 | ug/L   | 96       |
| 40) 4-Methyl-2-pentanone      | 7.791  | 43   | 10439    | 5.103 | ug/L   | 93       |
| 42) Toluene                   | 7.965  | 91   | 14645    | 2.281 | ug/L   | 99       |
| 44) trans-1,3-Dichloropropene | 8.209  | 75   | 6778     | 2.980 | ug/L   | 96       |
| 45) 1,1,2-Trichloroethane     | 8.399  | 97   | 4504     | 2.657 | ug/L   | 98       |
| 46) Tetrachloroethene         | 8.547  | 164  | 2742     | 2.124 | ug/L   | 94       |
| 48) 2-Hexanone                | 8.682  | 43   | 14359    | 8.387 | ug/L # | 89       |
| 49) Dibromochloromethane      | 8.807  | 129  | 4378     | 2.621 | ug/L   | 98       |
| 50) 1,2-Dibromoethane         | 8.920  | 107  | 4323     | 2.439 | ug/L # | 88       |
| 51) Chlorobenzene             | 9.444  | 112  | 10687    | 2.508 | ug/L   | 94       |
| 52) Ethylbenzene              | 9.566  | 91   | 14251    | 2.079 | ug/L   | 94       |
| 53) m,p-Xylene                | 9.692  | 106  | 5286     | 1.981 | ug/L   | 96       |
| 54) o-Xylene                  | 10.097 | 106  | 4697     | 1.830 | ug/L   | 96       |
| 55) Styrene                   | 10.116 | 104  | 7501     | 1.732 | ug/L   | 92       |
| 57) 1,1,2,2-Tetrachloroethane | 10.775 | 83   | 8654     | 3.028 | ug/L   | 98       |
| 59) Bromoform                 | 10.287 | 173  | 3108     | 2.872 | ug/L # | 97       |
| 60) 1,2,3-Trichloropropane    | 10.814 | 75   | 6001     | 3.533 | ug/L   | 96       |
| 61) Isopropylbenzene          | 10.479 | 105  | 11115    | 2.130 | ug/L   | 99       |
| 62) 1,3,5-Trimethylbenzene    | 11.084 | 105  | 7318     | 1.916 | ug/L   | 94       |
| 63) 1,2,4-Trimethylbenzene    | 11.467 | 105  | 7407     | 1.811 | ug/L   | 100      |
| 64) 1,3-Dichlorobenzene       | 11.746 | 146  | 6949     | 2.568 | ug/L   | 96       |
| 65) 1,4-Dichlorobenzene       | 11.833 | 146  | 7435     | 2.658 | ug/L   | 89       |
| 67) 1,2-Dichlorobenzene       | 12.209 | 146  | 7863     | 2.877 | ug/L # | 92       |
| 68) 1,2-Dibromo-3-chloropr... | 12.997 | 75   | 1783     | 3.838 | ug/L # | 72       |
| 69) 1,3,5-Trichlorobenzene    | 13.216 | 180  | 4574     | 2.345 | ug/L   | 92       |
| 70) 1,2,4-trichlorobenzene    | 13.843 | 180  | 3751     | 2.133 | ug/L   | 96       |
| 71) Naphthalene               | 14.093 | 128  | 10420    | 2.051 | ug/L # | 87       |
| 72) 1,2,3-Trichlorobenzene    | 14.331 | 180  | 3982     | 2.257 | ug/L   | 98       |

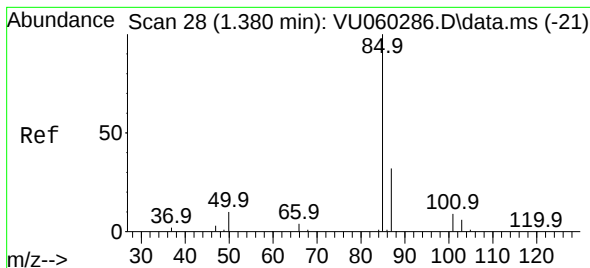
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Quant Title : VOC Analysis  
QLast Update : Fri Aug 02 02:32:23 2024  
Response via : Initial Calibration





#2

Dichlorodifluoromethane

Concen: 1.912 ug/L

RT: 1.380 min Scan# 28

Delta R.T. 0.000 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

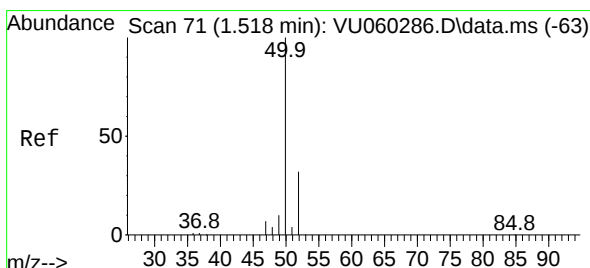
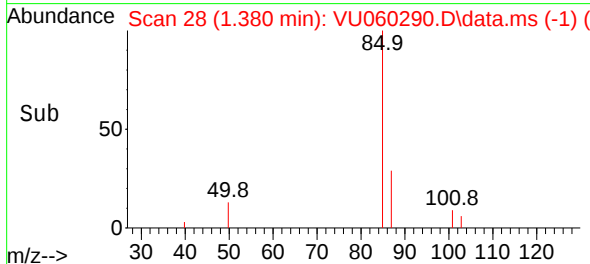
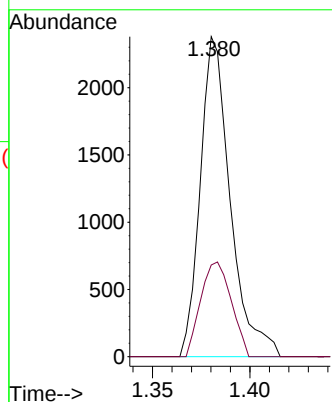
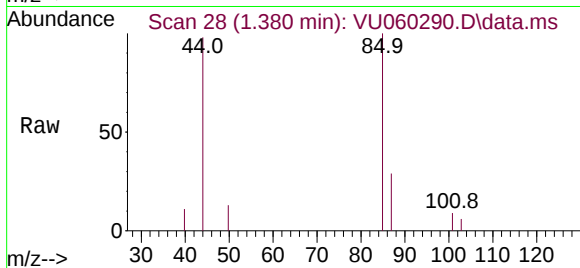
MDL-MED-SOIL-QT3-2024-05

Tgt Ion: 85 Resp: 2551

Ion Ratio Lower Upper

85 100

87 30.0 25.4 38.2



#3

Chloromethane

Concen: 2.816 ug/L

RT: 1.518 min Scan# 71

Delta R.T. 0.000 min

Lab File: VU060290.D

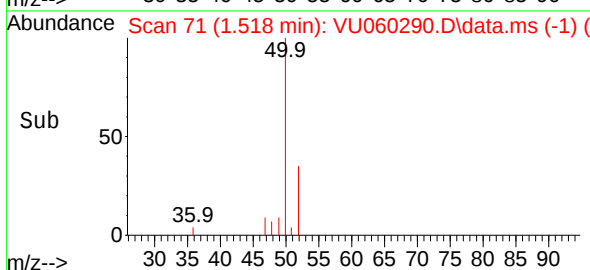
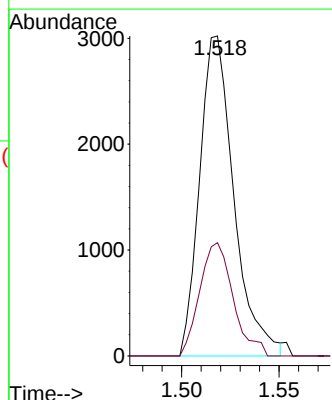
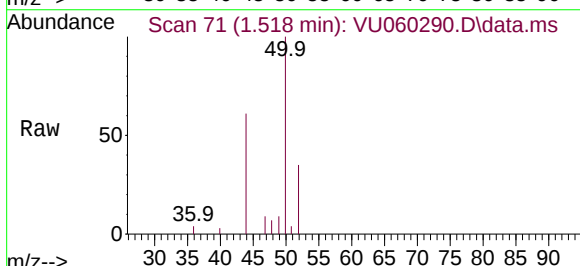
Acq: 01 Aug 2024 11:15

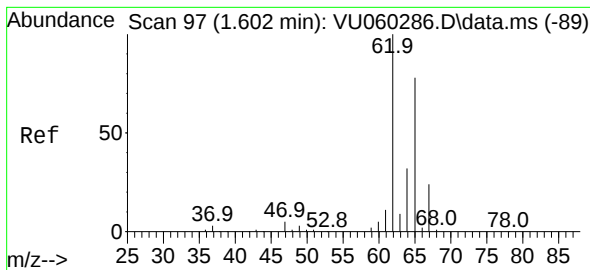
Tgt Ion: 50 Resp: 3687

Ion Ratio Lower Upper

50 100

52 35.4 24.5 45.5





#5

Vinyl chloride

Concen: 2.778 ug/L

RT: 1.602 min Scan# 91

Delta R.T. 0.000 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

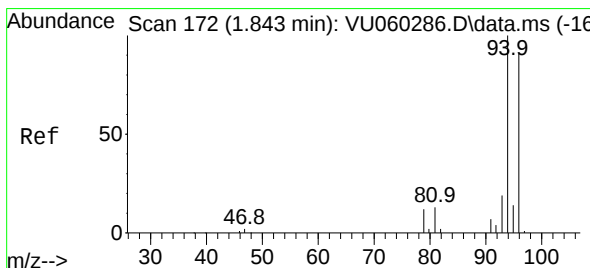
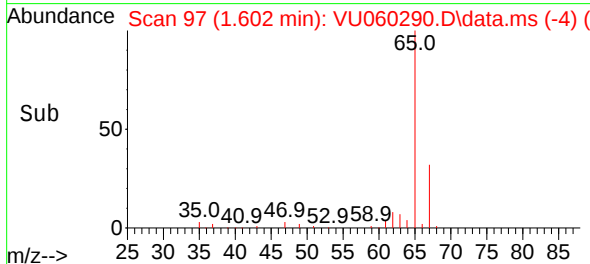
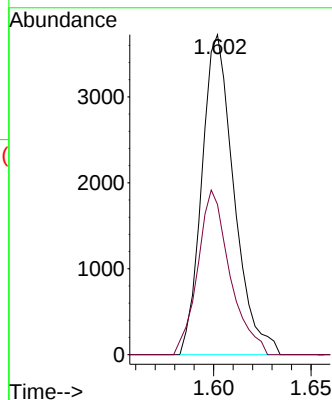
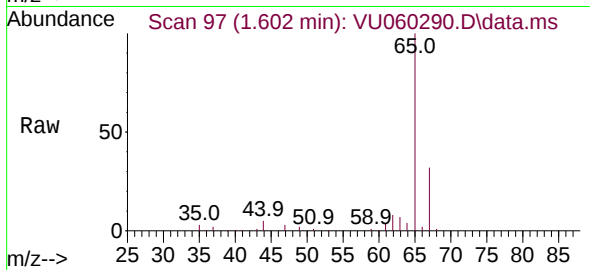
MDL-MED-SOIL-QT3-2024-05

Tgt Ion: 62 Resp: 4270

Ion Ratio Lower Upper

62 100

64 47.0 22.9 42.5#



#6

Bromomethane

Concen: 3.205 ug/L

RT: 1.846 min Scan# 173

Delta R.T. 0.003 min

Lab File: VU060290.D

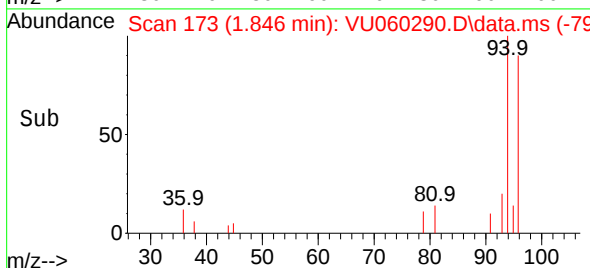
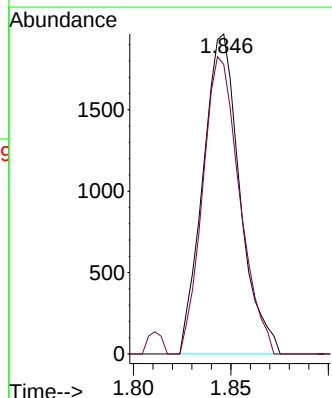
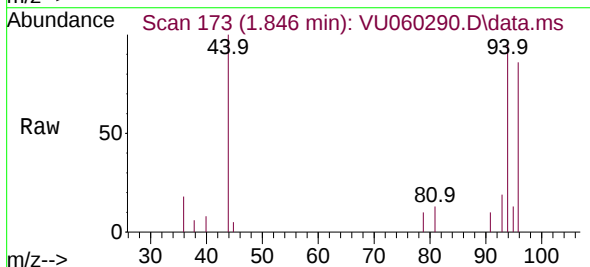
Acq: 01 Aug 2024 11:15

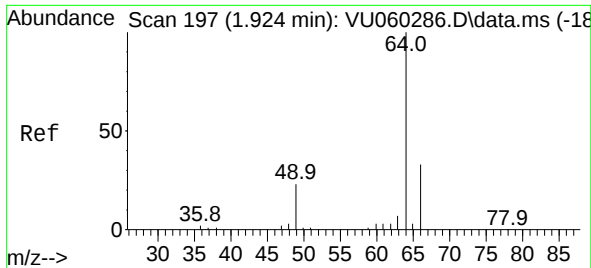
Tgt Ion: 94 Resp: 2588

Ion Ratio Lower Upper

94 100

96 90.5 65.2 121.2

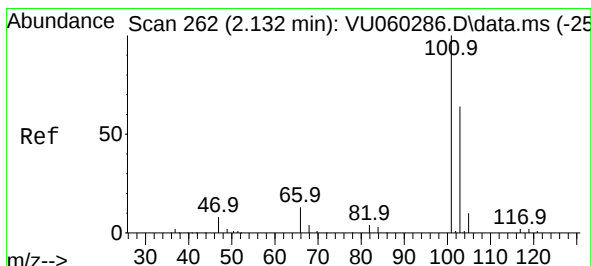
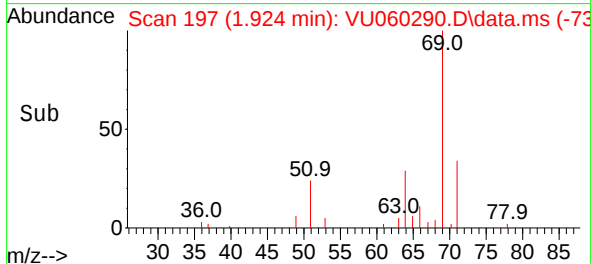
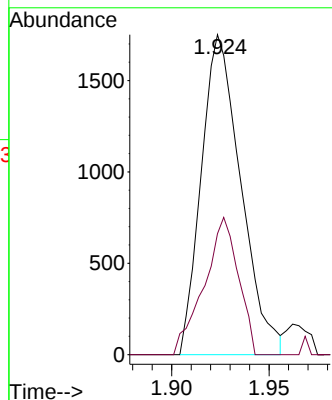
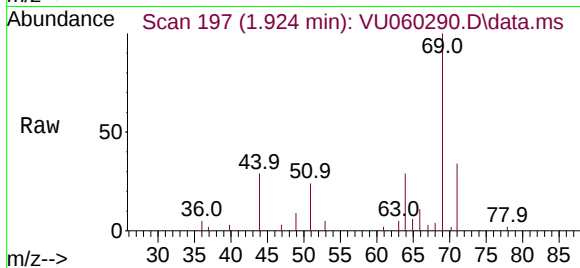




#8  
Chloroethane  
Concen: 2.469 ug/L  
RT: 1.924 min Scan# 197  
Delta R.T. 0.000 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

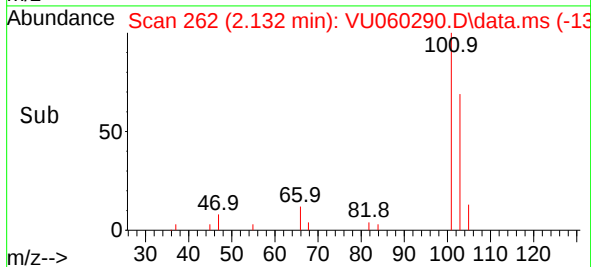
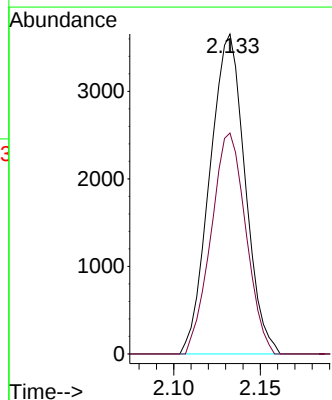
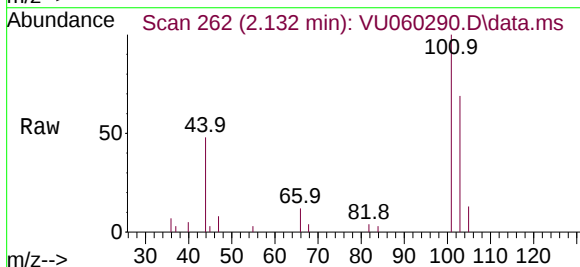
Instrument : MSVOA\_U  
ClientSampleId : MDL-MED-SOIL-QT3-2024-05

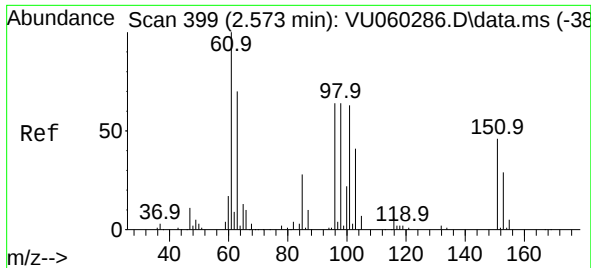
Tgt Ion: 64 Resp: 2471  
Ion Ratio Lower Upper  
64 100  
66 37.8 22.3 41.3



#9  
Trichlorofluoromethane  
Concen: 2.423 ug/L  
RT: 2.132 min Scan# 262  
Delta R.T. 0.000 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

Tgt Ion:101 Resp: 5186  
Ion Ratio Lower Upper  
101 100  
103 68.0 52.3 78.5





#10

1,1,2-Trichloro-1,2,2-trifluoroethane

Concen: 2.943 ug/L

RT: 2.570 min Scan# 398

Delta R.T. -0.003 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

MDL-MED-SOIL-QT3-2024-05

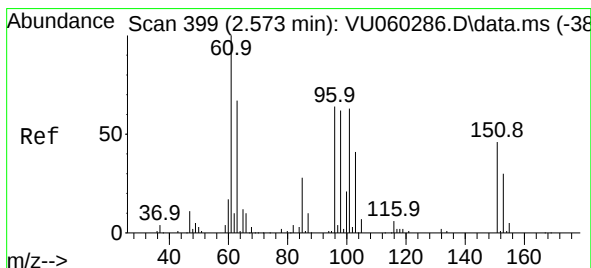
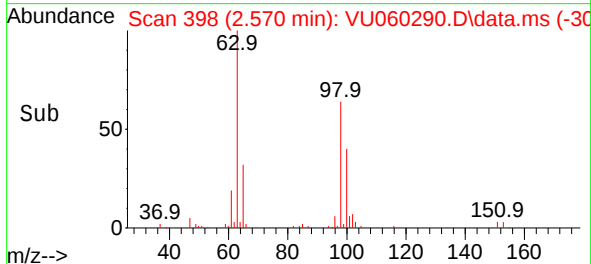
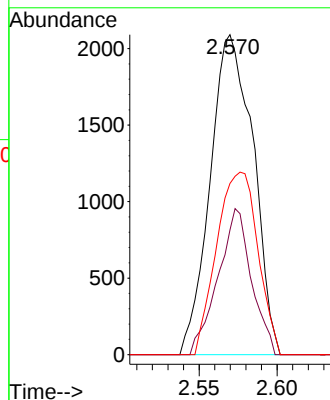
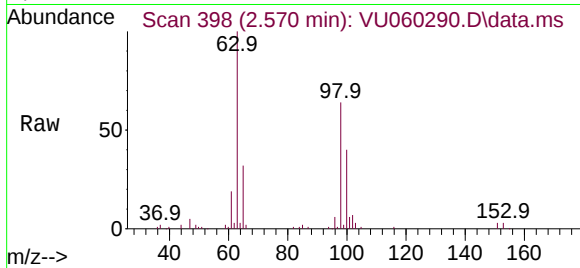
Tgt Ion:101 Resp: 4009

Ion Ratio Lower Upper

101 100

85 35.4 34.8 52.2

151 54.7 62.3 93.5#



#12

1,1-Dichloroethene

Concen: 2.946 ug/L

RT: 2.573 min Scan# 399

Delta R.T. 0.000 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

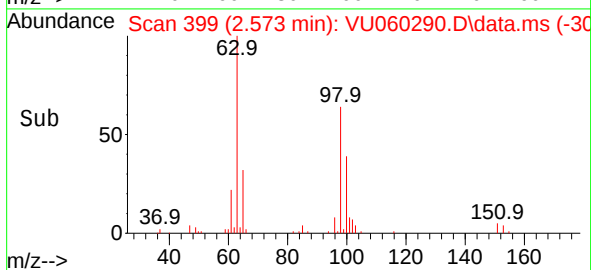
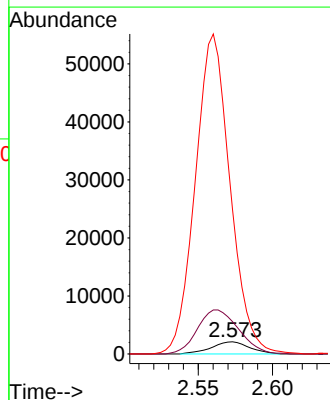
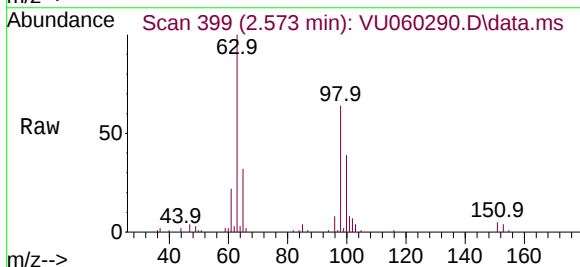
Tgt Ion: 96 Resp: 3753

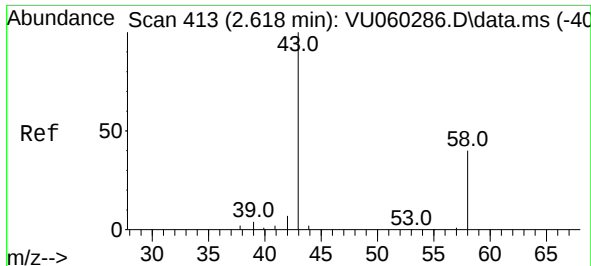
Ion Ratio Lower Upper

96 100

61 266.6 112.2 208.4#

63 1189.5 87.4 162.2#





#13

Acetone

Concen: 4.747 ug/L

RT: 2.628 min Scan# 413

Delta R.T. 0.010 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

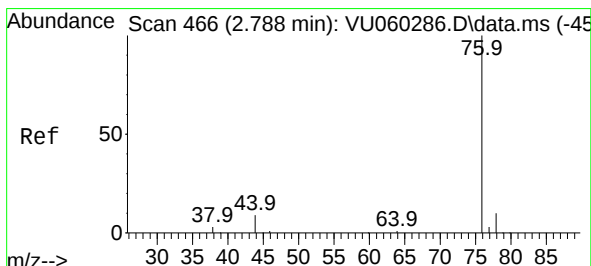
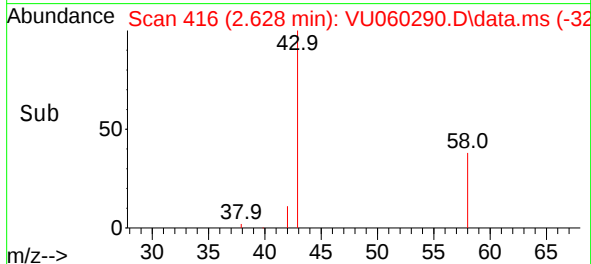
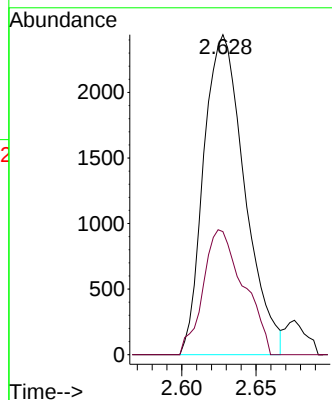
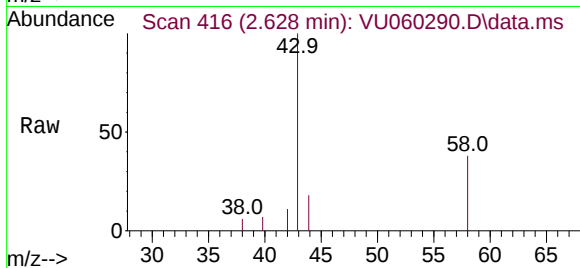
MDL-MED-SOIL-QT3-2024-05

Tgt Ion: 43 Resp: 4686

Ion Ratio Lower Upper

43 100

58 38.5 0.0 73.8



#14

Carbon disulfide

Concen: 2.225 ug/L

RT: 2.788 min Scan# 466

Delta R.T. 0.000 min

Lab File: VU060290.D

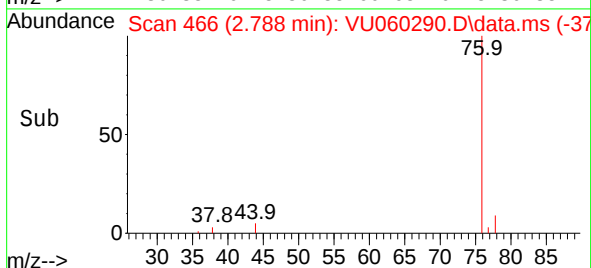
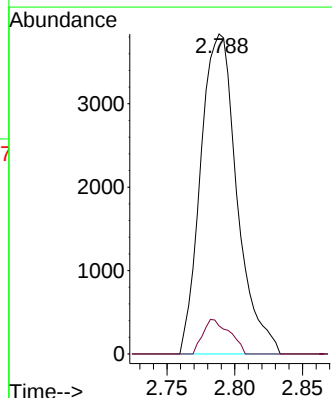
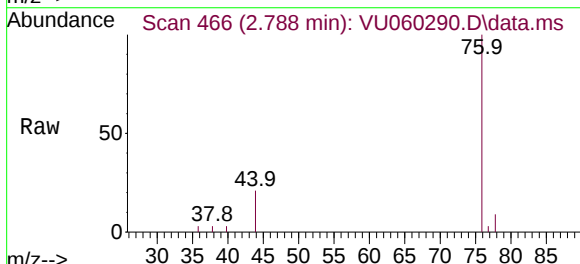
Acq: 01 Aug 2024 11:15

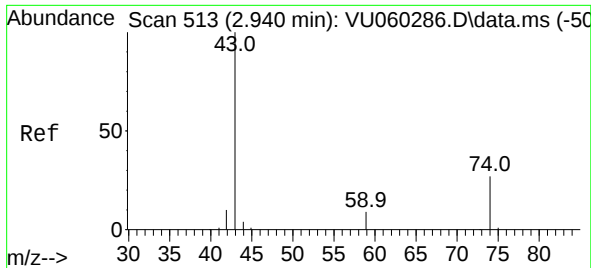
Tgt Ion: 76 Resp: 7155

Ion Ratio Lower Upper

76 100

78 8.8 7.0 10.4

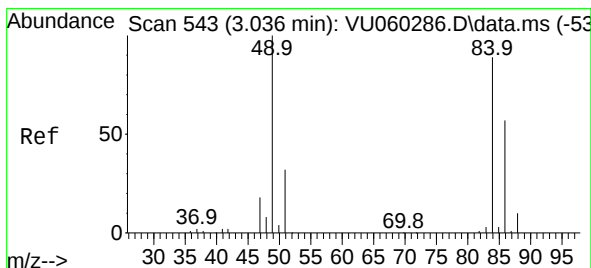
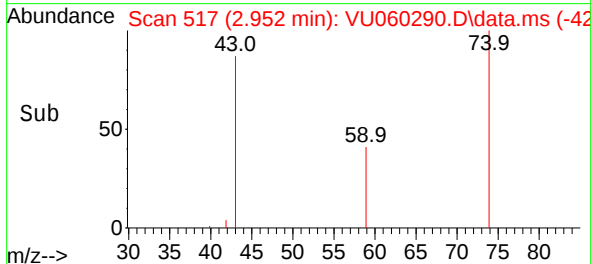
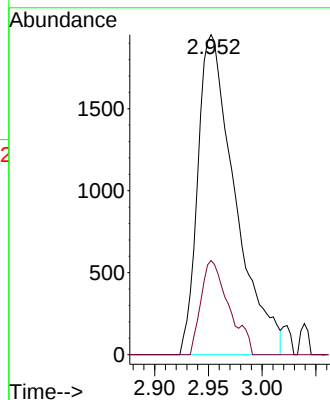
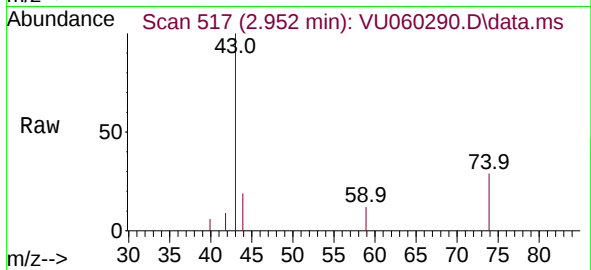




#15  
Methyl Acetate  
Concen: 3.156 ug/L  
RT: 2.952 min Scan# 513  
Delta R.T. 0.013 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

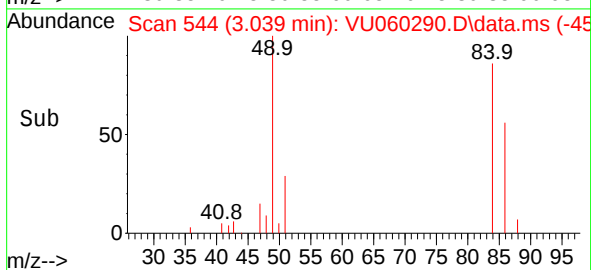
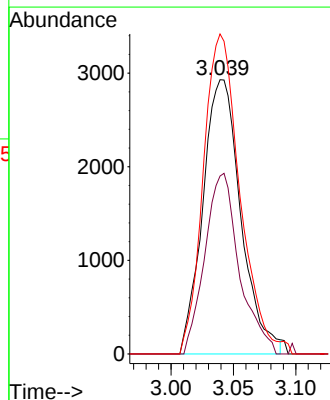
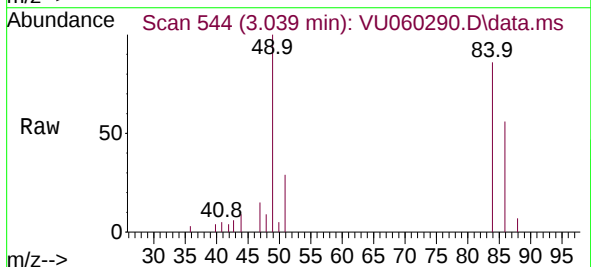
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-MED-SOIL-QT3-2024-05

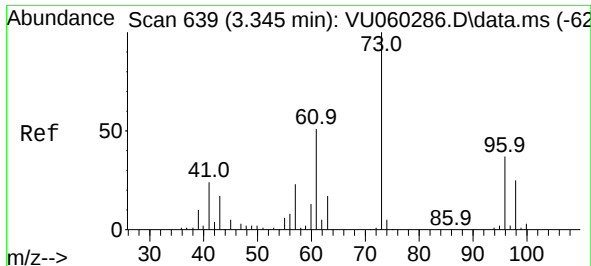
Tgt Ion: 43 Resp: 4697  
Ion Ratio Lower Upper  
43 100  
74 20.2 24.1 36.1#



#16  
Methylene chloride  
Concen: 3.866 ug/L  
RT: 3.039 min Scan# 544  
Delta R.T. 0.003 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

Tgt Ion: 84 Resp: 6210  
Ion Ratio Lower Upper  
84 100  
86 64.9 44.7 83.1  
49 116.7 71.6 133.0

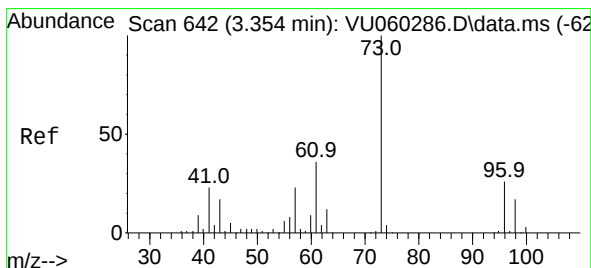
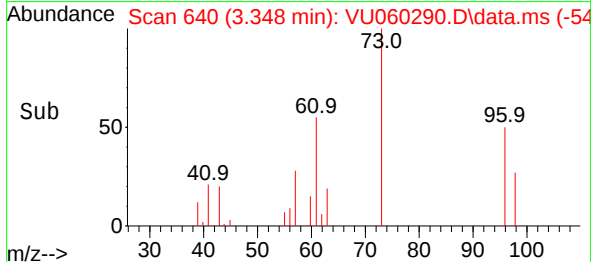
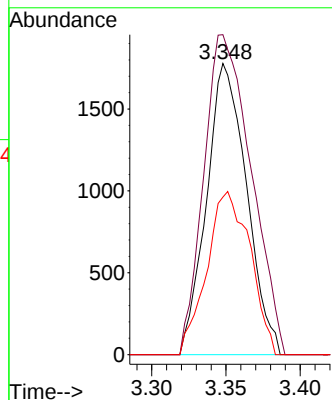
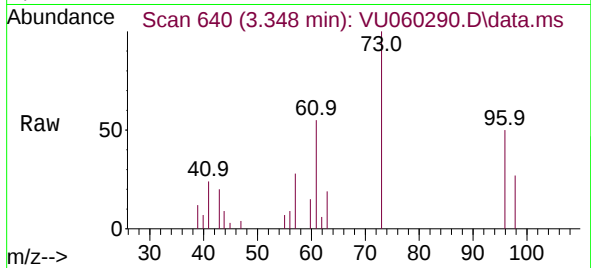




#17  
trans-1,2-Dichloroethene  
Concen: 2.543 ug/L  
RT: 3.348 min Scan# 640  
Delta R.T. 0.003 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

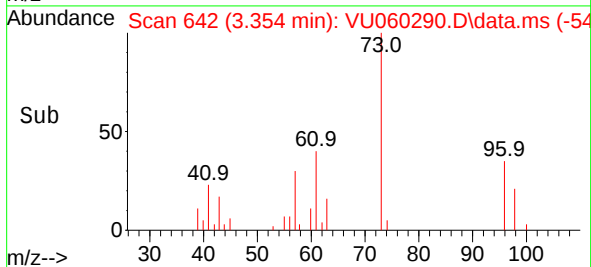
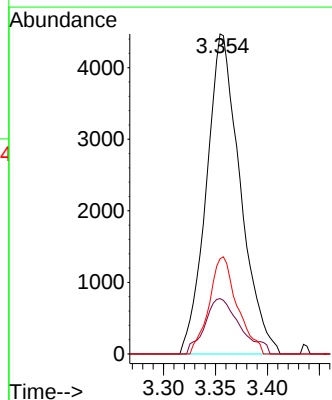
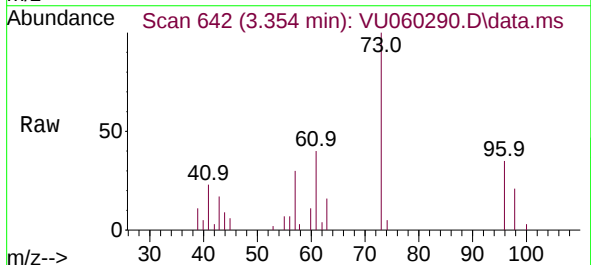
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-MED-SOIL-QT3-2024-05

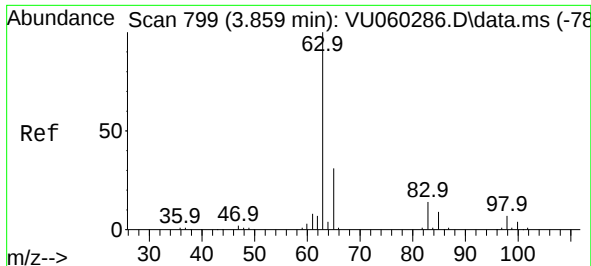
Tgt Ion: 96 Resp: 3335  
Ion Ratio Lower Upper  
96 100  
61 109.9 90.6 168.3  
98 54.1 44.9 83.3



#18  
Methyl tert-butyl Ether  
Concen: 2.371 ug/L  
RT: 3.354 min Scan# 642  
Delta R.T. 0.000 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

Tgt Ion: 73 Resp: 10101  
Ion Ratio Lower Upper  
73 100  
43 17.2 14.1 21.1  
57 25.2 17.1 25.7

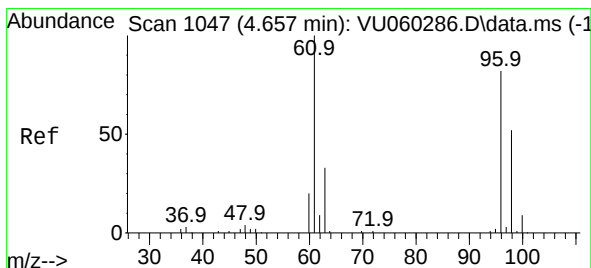
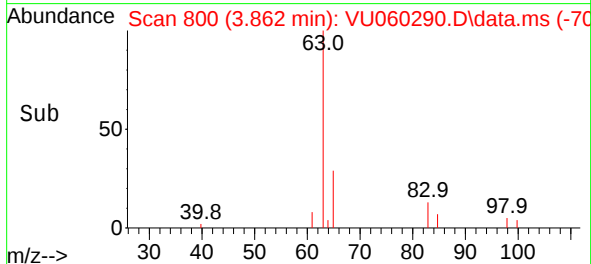
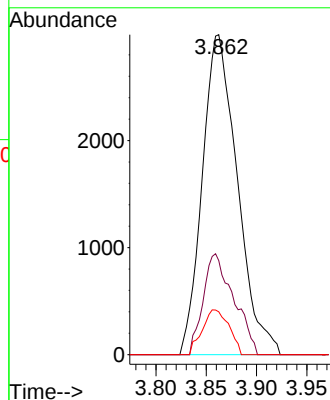
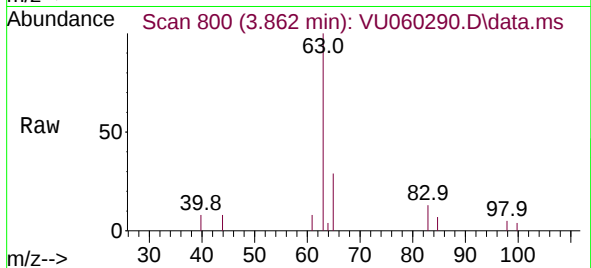




#19  
1,1-Dichloroethane  
Concen: 2.911 ug/L  
RT: 3.862 min Scan# 800  
Delta R.T. 0.003 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

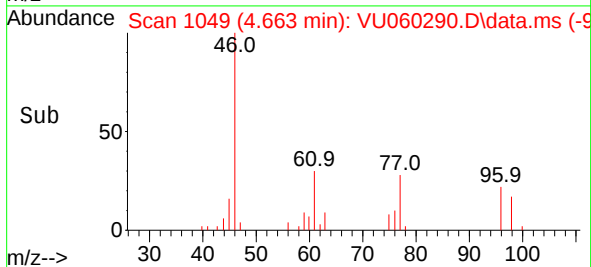
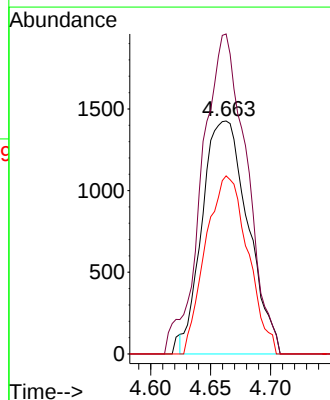
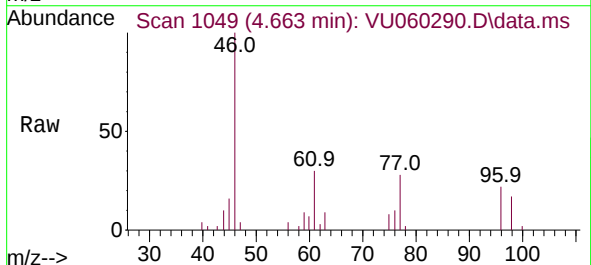
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-MED-SOIL-QT3-2024-05

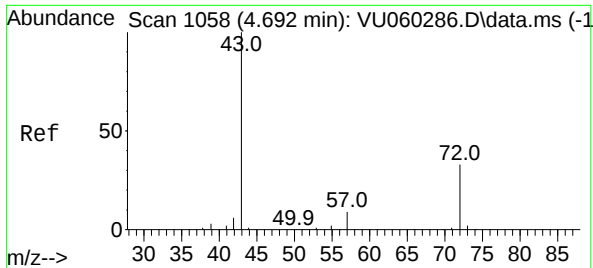
Tgt Ion: 63 Resp: 7240  
Ion Ratio Lower Upper  
63 100  
65 29.4 23.3 43.3  
83 13.4 9.8 18.2



#20  
cis-1,2-Dichloroethene  
Concen: 2.374 ug/L  
RT: 4.663 min Scan# 1049  
Delta R.T. 0.006 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

Tgt Ion: 96 Resp: 3770  
Ion Ratio Lower Upper  
96 100  
61 137.4 83.2 154.4  
98 76.4 45.9 85.3

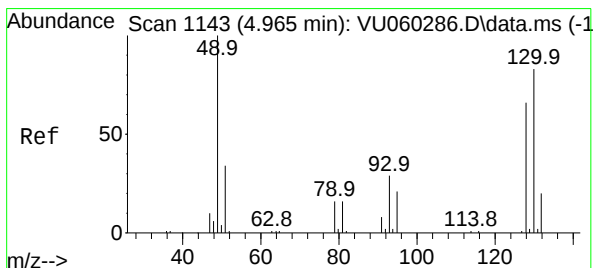
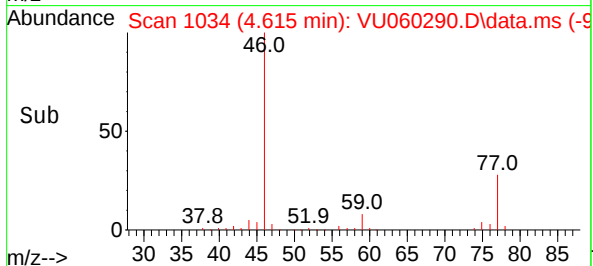
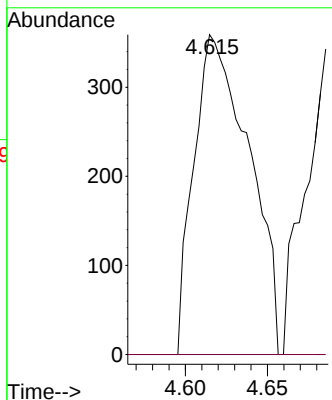
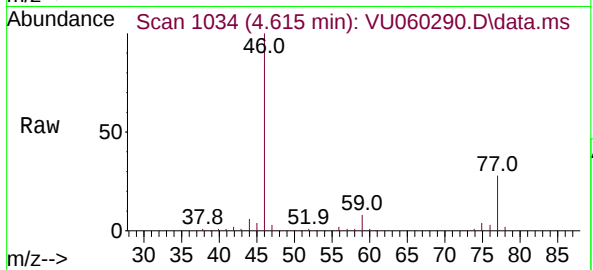




#22  
 2-Butanone  
 Concen: 0.689 ug/L  
 RT: 4.615 min Scan# 1034  
 Delta R.T. -0.077 min  
 Lab File: VU060290.D  
 Acq: 01 Aug 2024 11:15

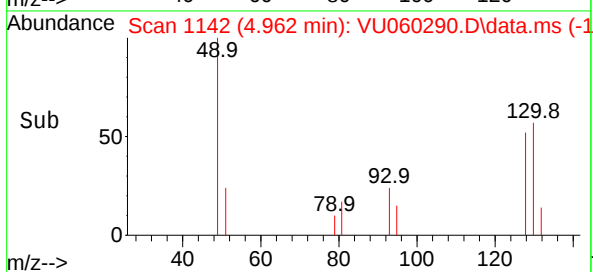
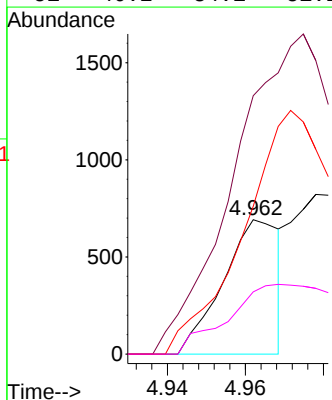
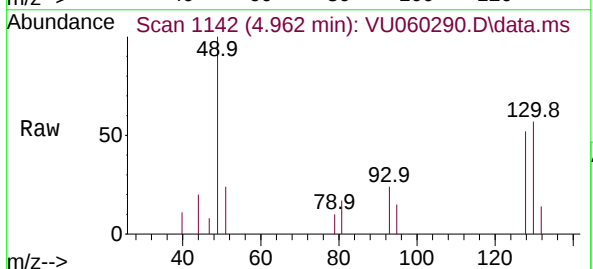
Instrument : MSVOA\_U  
 ClientSampleId : MDL-MED-SOIL-QT3-2024-05

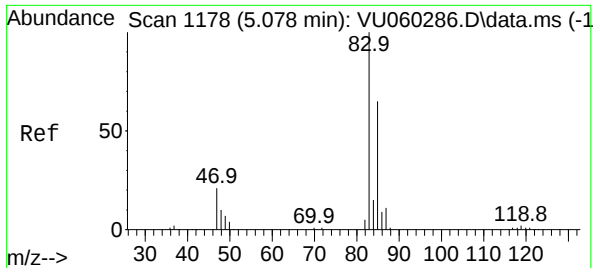
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 43    | Resp: | 837   |
| Ion Ratio | Lower | Upper |       |
| 43        | 100   |       |       |
| 72        | 53.9  | 16.4  | 49.2# |



#23  
 Bromochloromethane  
 Concen: 0.830 ug/L  
 RT: 4.962 min Scan# 1142  
 Delta R.T. -0.003 min  
 Lab File: VU060290.D  
 Acq: 01 Aug 2024 11:15

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 128   | Resp: | 695    |
| Ion Ratio | Lower | Upper |        |
| 128       | 100   |       |        |
| 49        | 192.2 | 96.7  | 179.7# |
| 130       | 110.0 | 86.3  | 160.3  |
| 51        | 46.2  | 34.1  | 51.1   |





#25

Chloroform

Concen: 3.052 ug/L

RT: 5.081 min Scan# 1178

Delta R.T. 0.003 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

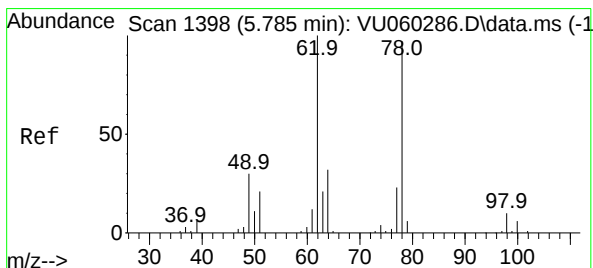
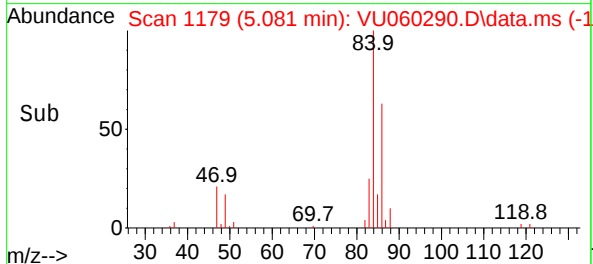
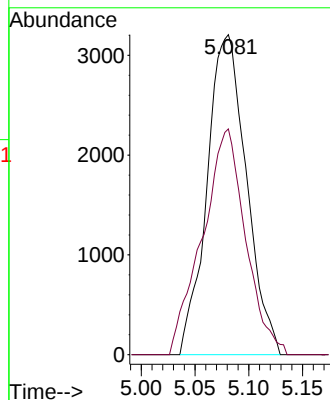
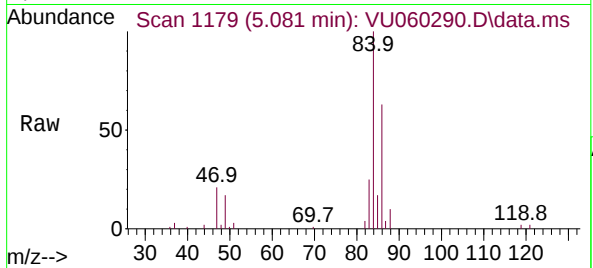
MDL-MED-SOIL-QT3-2024-05

Tgt Ion: 83 Resp: 8169

Ion Ratio Lower Upper

83 100

85 70.5 46.7 86.7



#27

1,2-Dichloroethane

Concen: 2.549 ug/L

RT: 5.795 min Scan# 1401

Delta R.T. 0.010 min

Lab File: VU060290.D

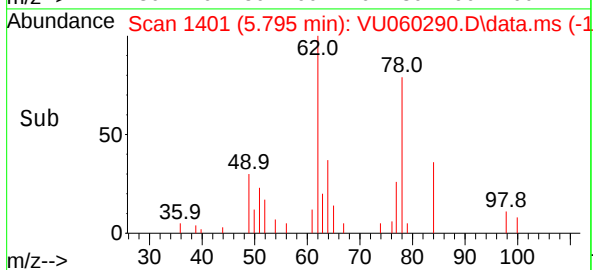
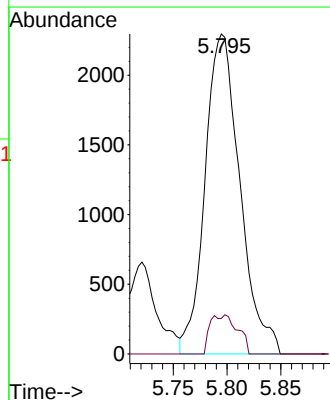
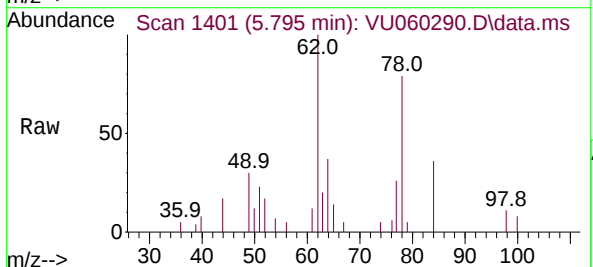
Acq: 01 Aug 2024 11:15

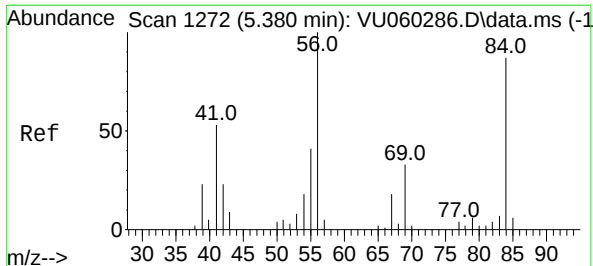
Tgt Ion: 62 Resp: 5179

Ion Ratio Lower Upper

62 100

98 11.1 7.8 11.8





#29

Cyclohexane

Concen: 1.835 ug/L

RT: 5.383 min Scan# 1272

Delta R.T. 0.003 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

MDL-MED-SOIL-QT3-2024-05

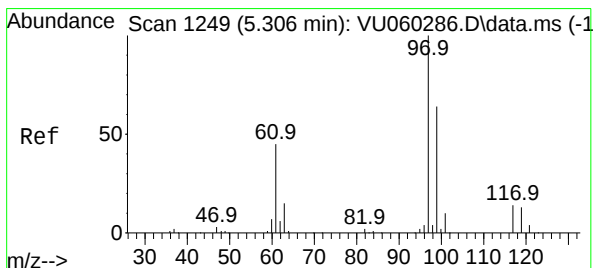
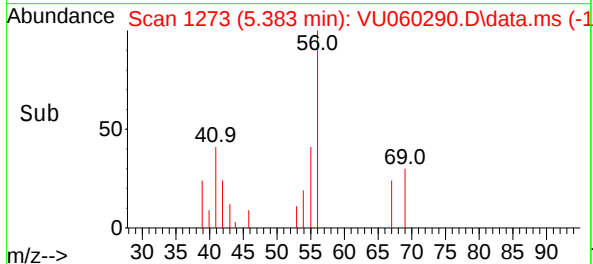
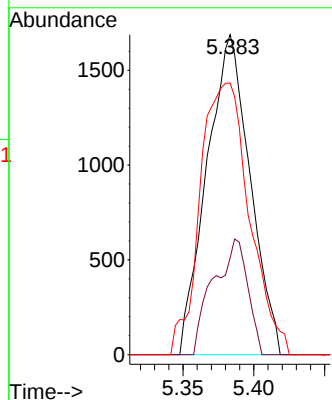
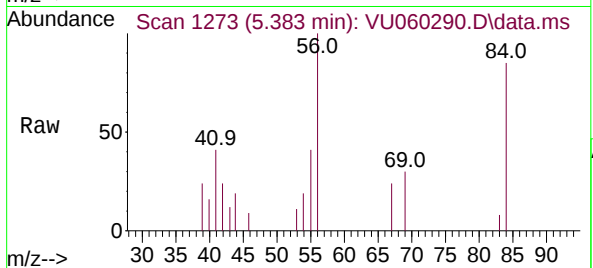
Tgt Ion: 56 Resp: 3577

Ion Ratio Lower Upper

56 100

69 17.8 26.0 39.0#

84 96.6 75.5 113.3



#30

1,1,1-Trichloroethane

Concen: 2.435 ug/L

RT: 5.309 min Scan# 1250

Delta R.T. 0.003 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

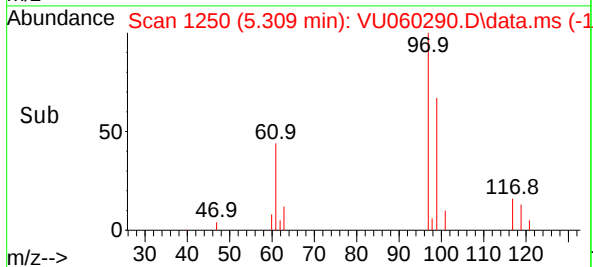
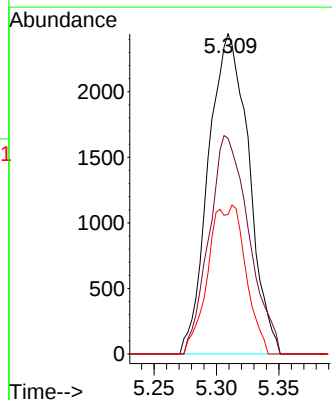
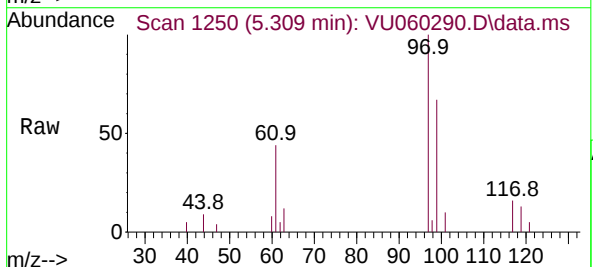
Tgt Ion: 97 Resp: 5493

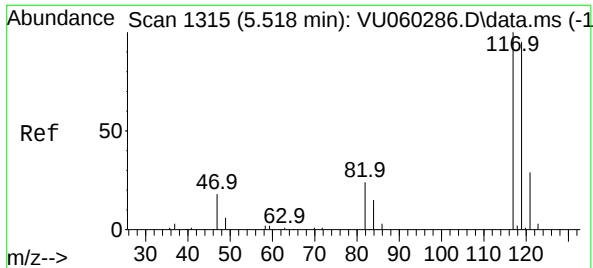
Ion Ratio Lower Upper

97 100

99 67.3 52.2 78.2

61 20.9 35.2 52.8#

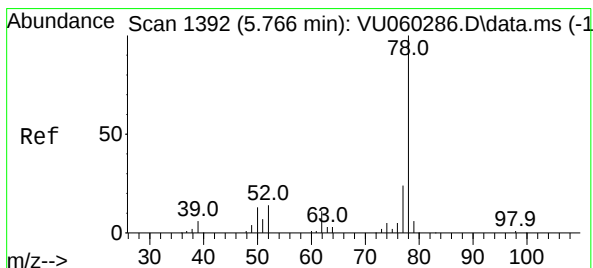
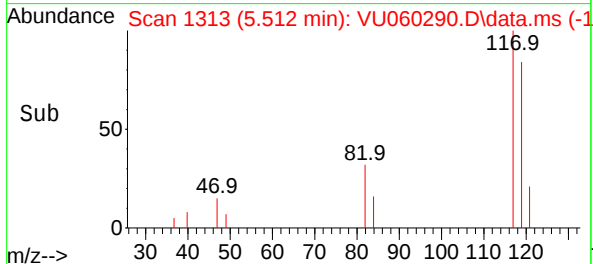
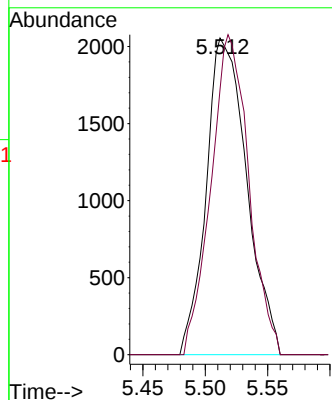
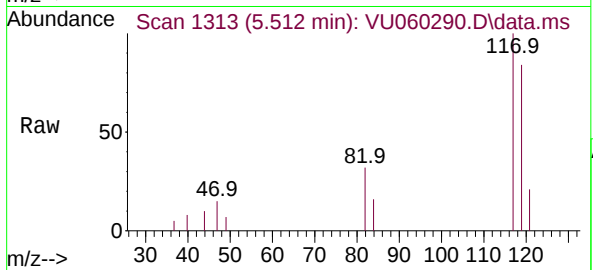




#31  
Carbon tetrachloride  
Concen: 2.492 ug/L  
RT: 5.512 min Scan# 1315  
Delta R.T. -0.006 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

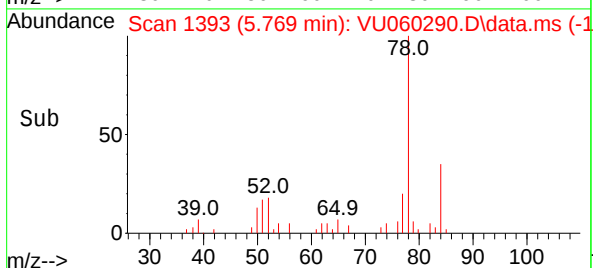
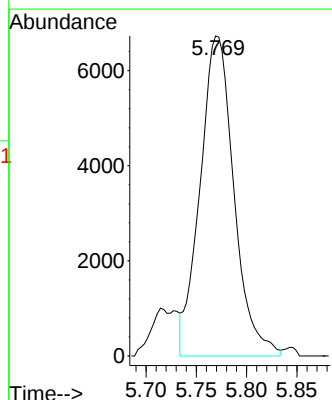
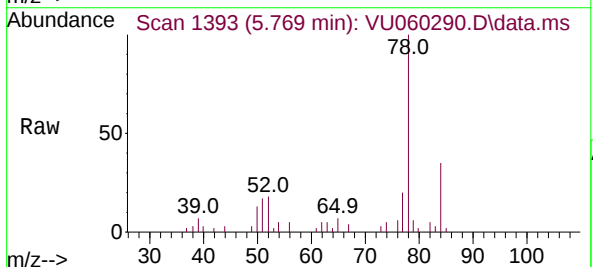
Instrument : MSVOA\_U  
ClientSampleId : MDL-MED-SOIL-QT3-2024-05

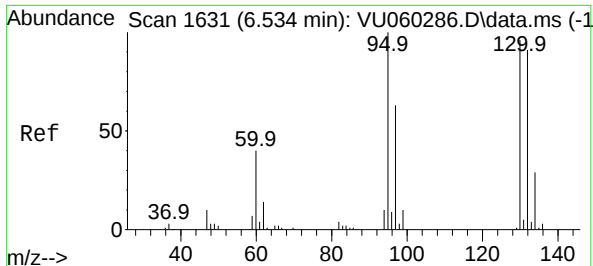
Tgt Ion:117 Resp: 4644  
Ion Ratio Lower Upper  
117 100  
119 94.3 77.6 116.4



#33  
Benzene  
Concen: 2.680 ug/L  
RT: 5.769 min Scan# 1393  
Delta R.T. 0.003 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

Tgt Ion: 78 Resp: 15759





#34

Trichloroethene

Concen: 2.525 ug/L

RT: 6.541 min Scan# 1

Delta R.T. 0.006 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

MDL-MED-SOIL-QT3-2024-05

Tgt Ion: 95 Resp: 3962

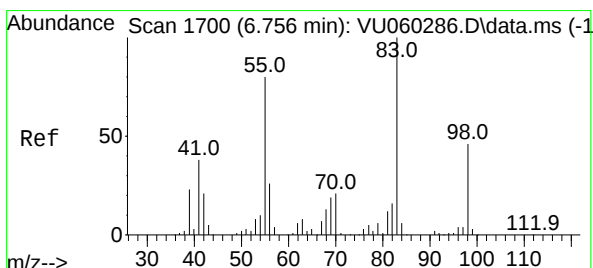
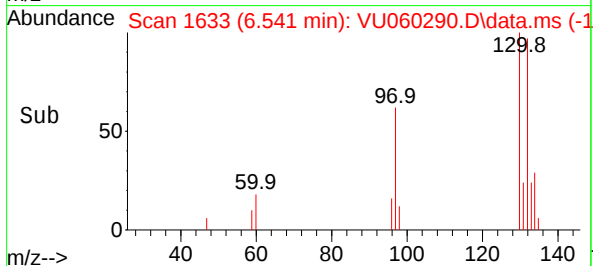
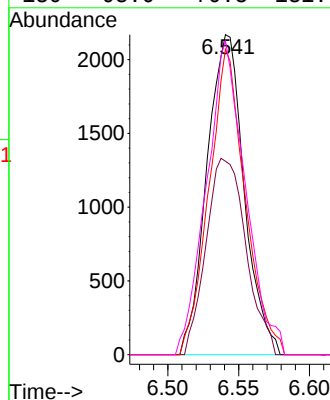
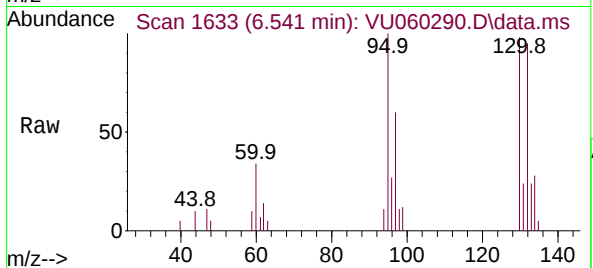
Ion Ratio Lower Upper

95 100

97 60.4 45.8 85.2

132 95.5 69.8 129.6

130 98.0 70.8 131.6



#35

Methylcyclohexane

Concen: 1.564 ug/L

RT: 6.753 min Scan# 1699

Delta R.T. -0.003 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

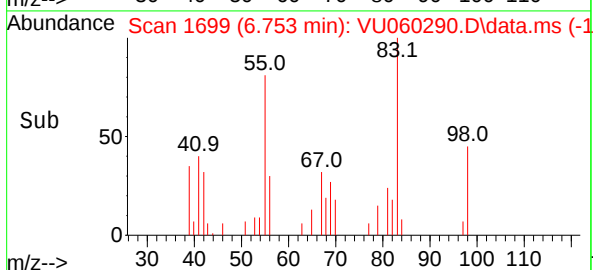
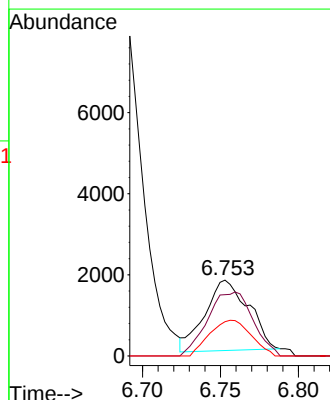
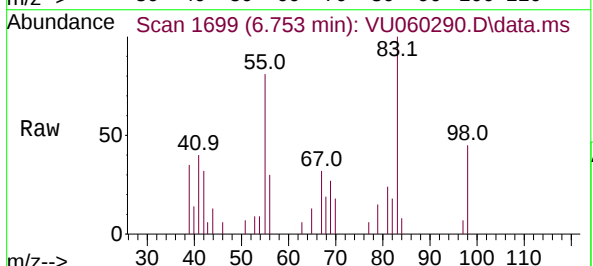
Tgt Ion: 83 Resp: 3390

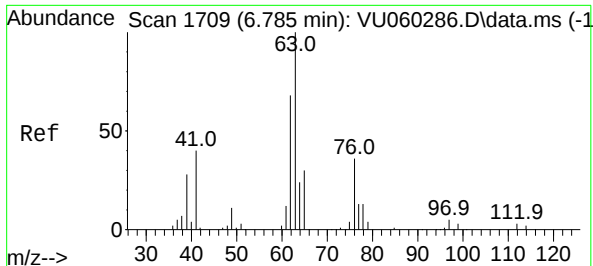
Ion Ratio Lower Upper

83 100

55 0.0 56.8 85.2#

98 47.9 36.5 54.7

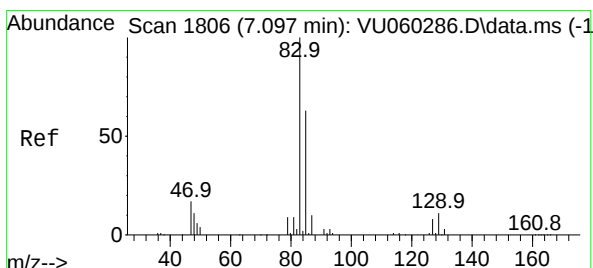
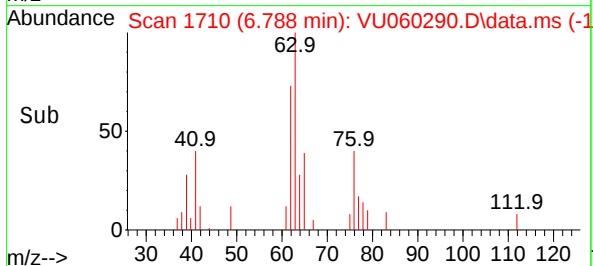
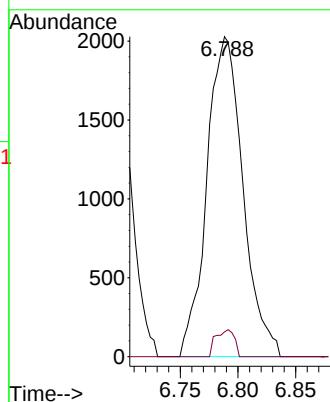
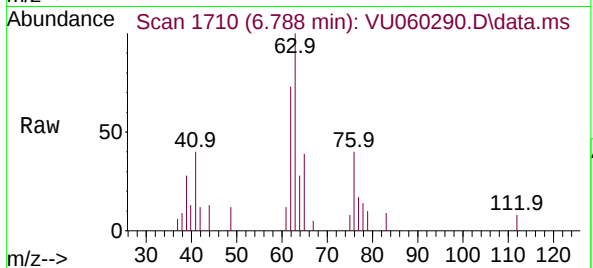




#37  
1,2-Dichloropropane  
Concen: 2.727 ug/L  
RT: 6.788 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

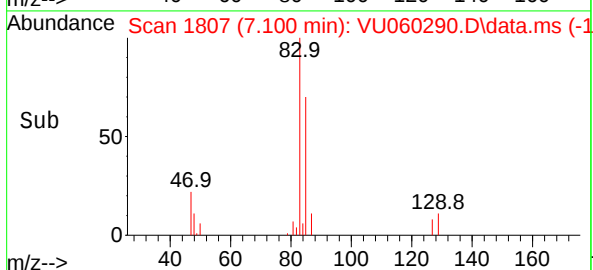
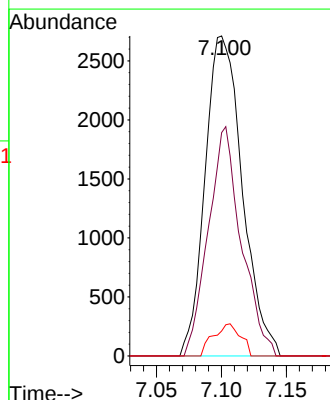
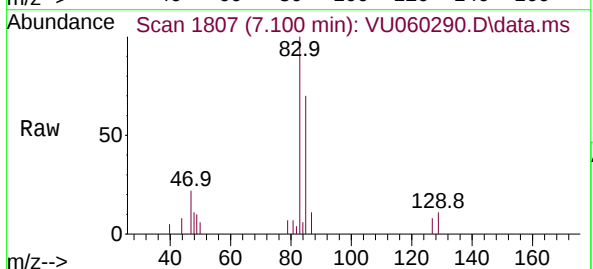
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-MED-SOIL-QT3-2024-05

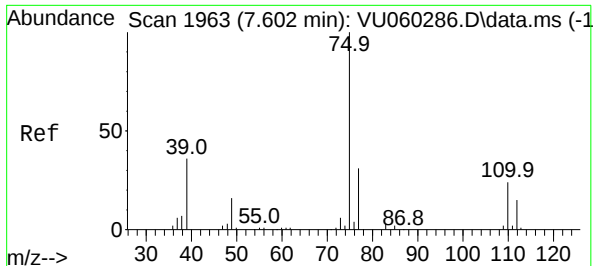
Tgt Ion: 63 Resp: 4413  
Ion Ratio Lower Upper  
63 100  
112 2.6 3.0 4.6#



#38  
Bromodichloromethane  
Concen: 2.636 ug/L  
RT: 7.100 min Scan# 1807  
Delta R.T. 0.003 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

Tgt Ion: 83 Resp: 5406  
Ion Ratio Lower Upper  
83 100  
85 69.8 45.0 83.6  
127 7.8 7.4 11.2

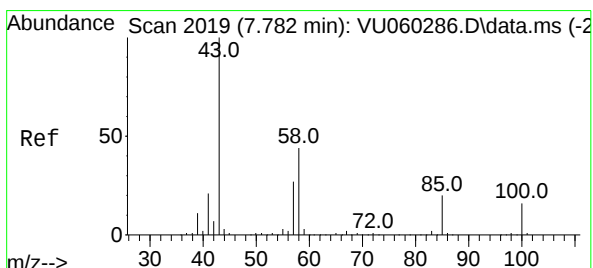
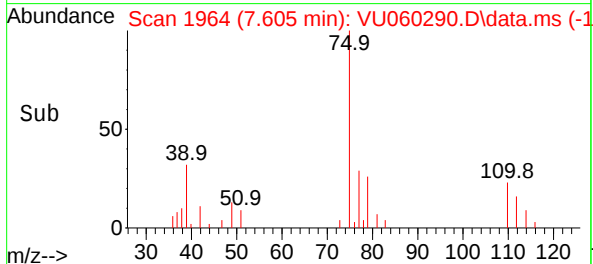
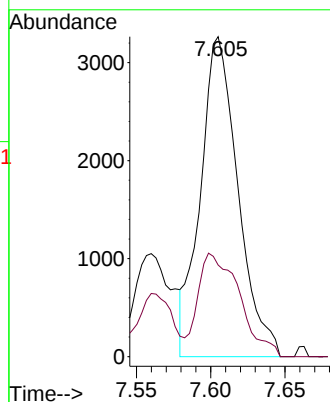
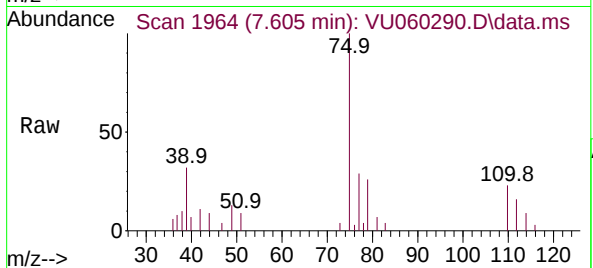




#39  
cis-1,3-Dichloropropene  
Concen: 2.323 ug/L  
RT: 7.605 min Scan# 1963  
Delta R.T. 0.003 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

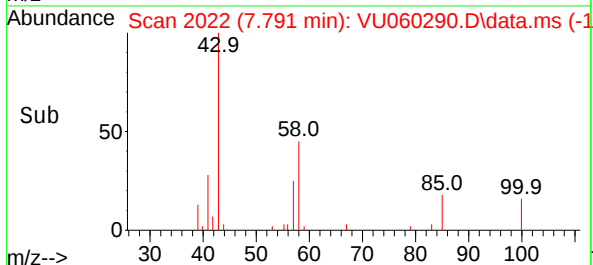
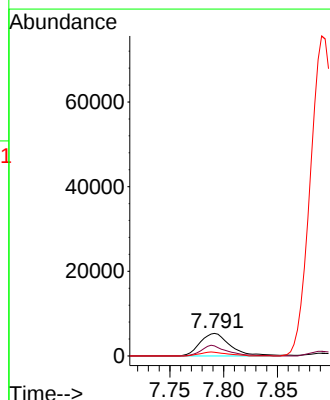
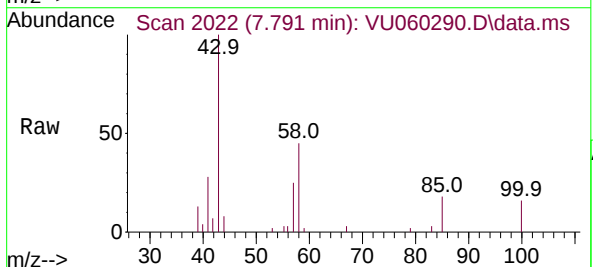
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-MED-SOIL-QT3-2024-05

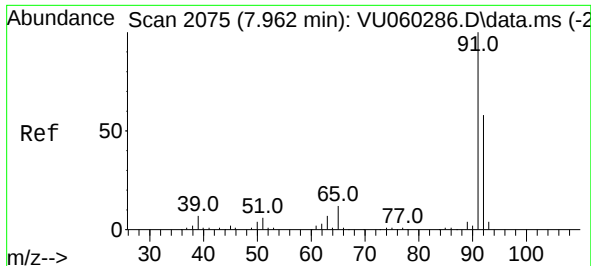
Tgt Ion: 75 Resp: 5753  
Ion Ratio Lower Upper  
75 100  
77 28.6 21.6 40.2



#40  
4-Methyl-2-pentanone  
Concen: 5.103 ug/L  
RT: 7.791 min Scan# 2022  
Delta R.T. 0.010 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

Tgt Ion: 43 Resp: 10439  
Ion Ratio Lower Upper  
43 100  
58 39.4 35.3 52.9  
100 15.7 14.6 22.0





#42

Toluene

Concen: 2.281 ug/L

RT: 7.965 min Scan# 2075

Delta R.T. 0.003 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

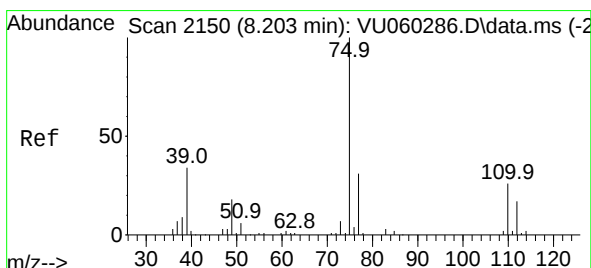
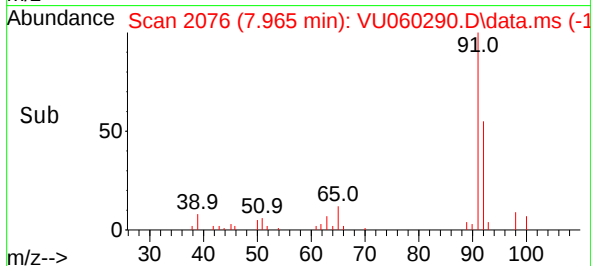
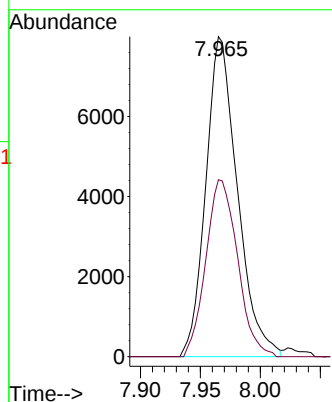
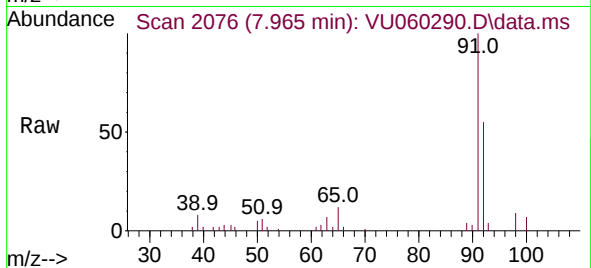
MDL-MED-SOIL-QT3-2024-05

Tgt Ion: 91 Resp: 14645

Ion Ratio Lower Upper

91 100

92 55.3 39.3 72.9



#44

trans-1,3-Dichloropropene

Concen: 2.980 ug/L

RT: 8.209 min Scan# 2152

Delta R.T. 0.006 min

Lab File: VU060290.D

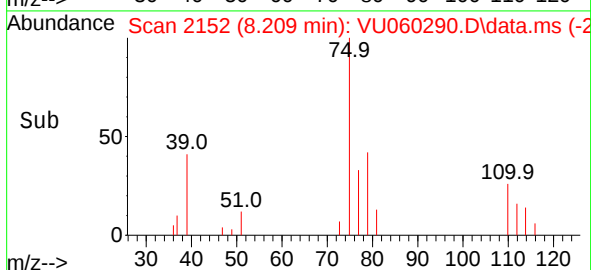
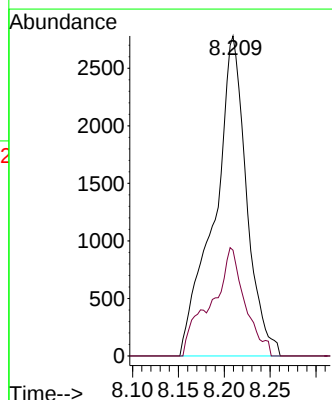
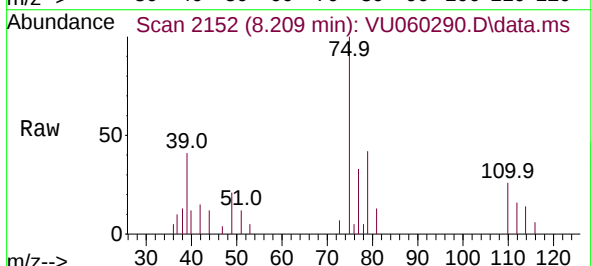
Acq: 01 Aug 2024 11:15

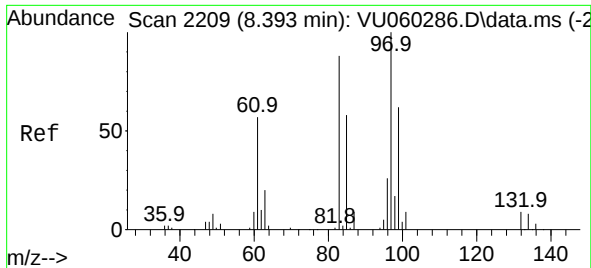
Tgt Ion: 75 Resp: 6778

Ion Ratio Lower Upper

75 100

77 33.0 21.7 40.3





#45

1,1,2-Trichloroethane

Concen: 2.657 ug/L

RT: 8.399 min Scan# 2209

Delta R.T. 0.006 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

MDL-MED-SOIL-QT3-2024-05

Tgt Ion: 97 Resp: 4504

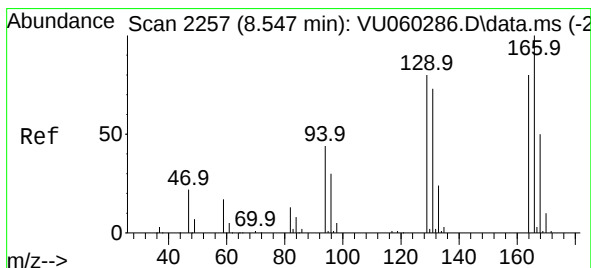
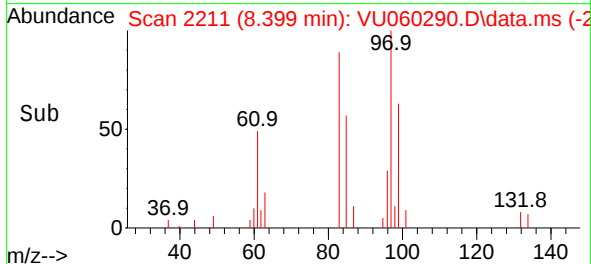
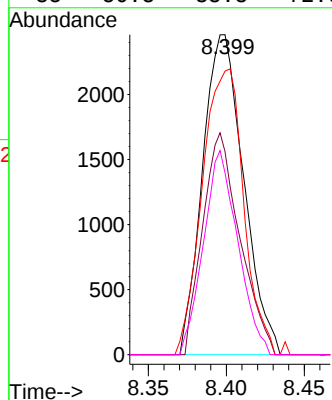
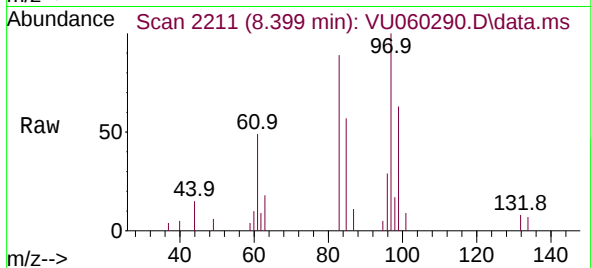
Ion Ratio Lower Upper

97 100

99 63.5 43.1 80.1

83 88.6 60.4 112.2

85 56.8 38.8 72.0



#46

Tetrachloroethene

Concen: 2.124 ug/L

RT: 8.547 min Scan# 2257

Delta R.T. 0.000 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Tgt Ion:164 Resp: 2742

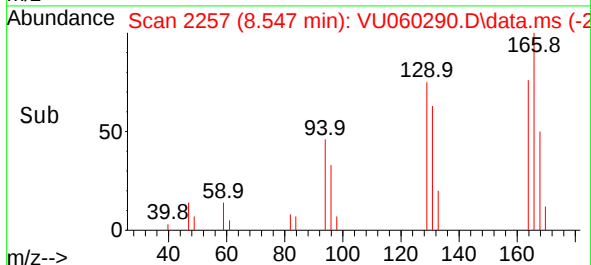
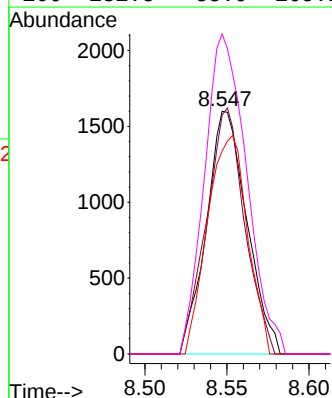
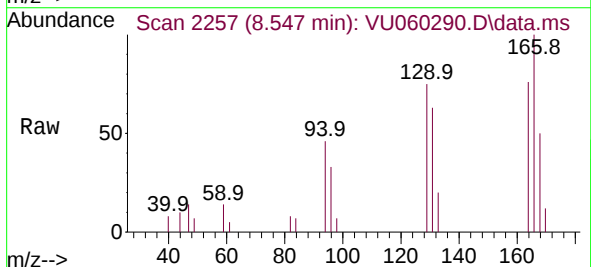
Ion Ratio Lower Upper

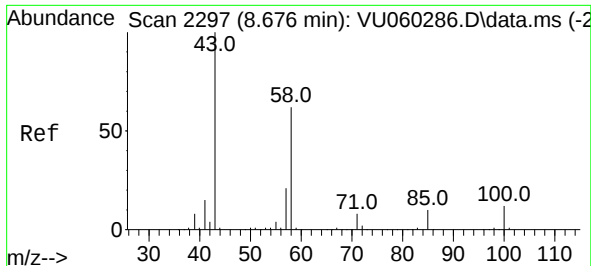
164 100

129 98.4 62.7 116.5

131 83.6 62.3 115.7

166 131.8 88.9 165.1





#48

2-Hexanone

Concen: 8.387 ug/L

RT: 8.682 min Scan# 21

Delta R.T. 0.006 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

MDL-MED-SOIL-QT3-2024-05

Tgt Ion: 43 Resp: 14359

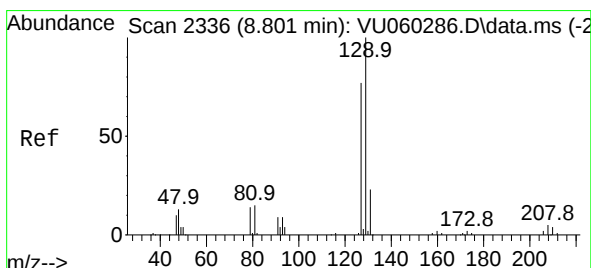
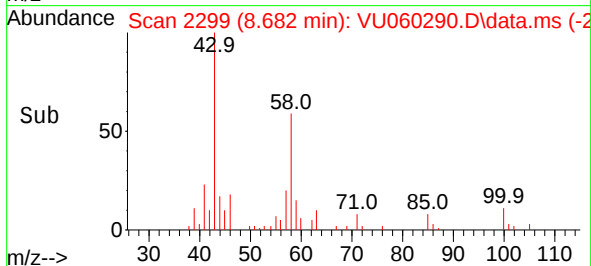
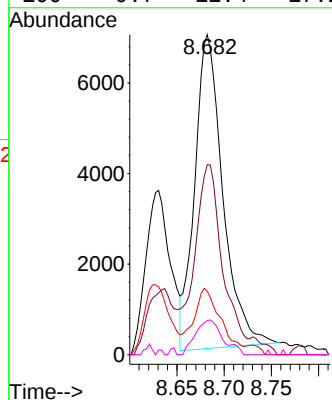
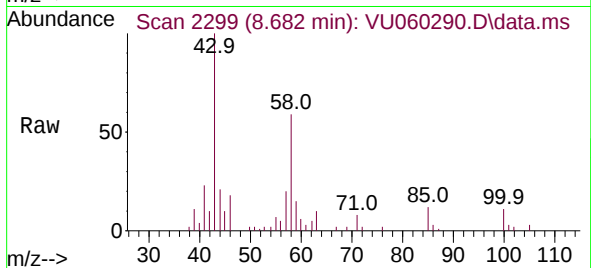
Ion Ratio Lower Upper

43 100

58 50.1 49.0 73.6

57 20.9 16.7 25.1

100 9.7 11.4 17.2#



#49

Dibromochloromethane

Concen: 2.621 ug/L

RT: 8.807 min Scan# 2338

Delta R.T. 0.006 min

Lab File: VU060290.D

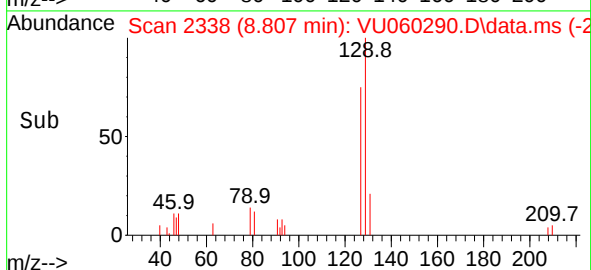
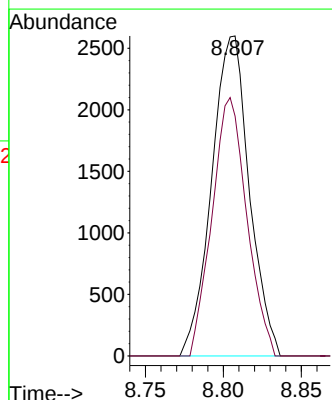
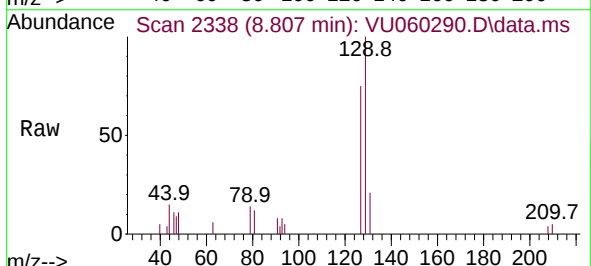
Acq: 01 Aug 2024 11:15

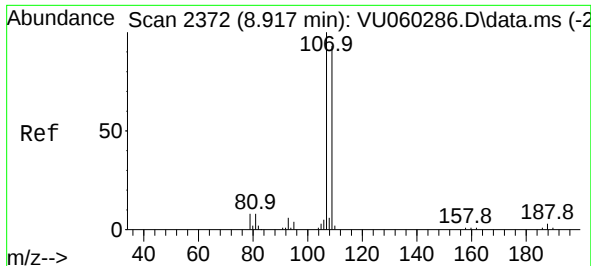
Tgt Ion: 129 Resp: 4378

Ion Ratio Lower Upper

129 100

127 75.0 54.0 100.2

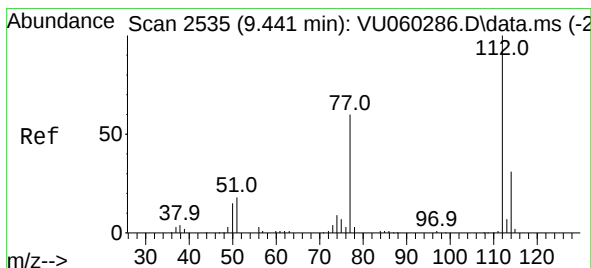
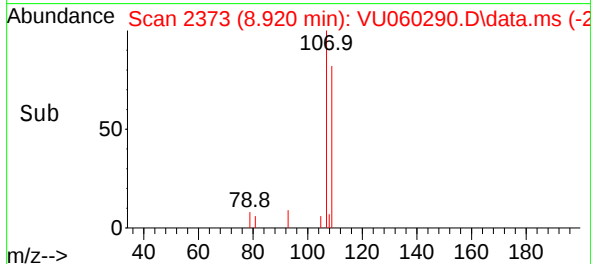
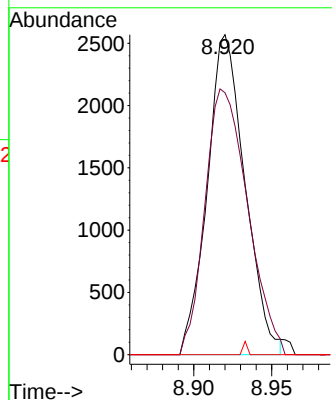
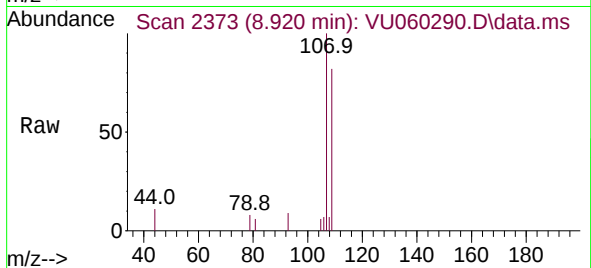




#50  
1,2-Dibromoethane  
Concen: 2.439 ug/L  
RT: 8.920 min Scan# 2373  
Delta R.T. 0.003 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

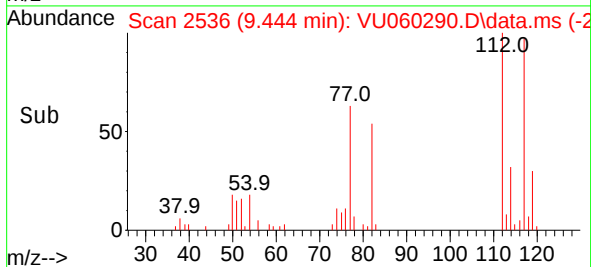
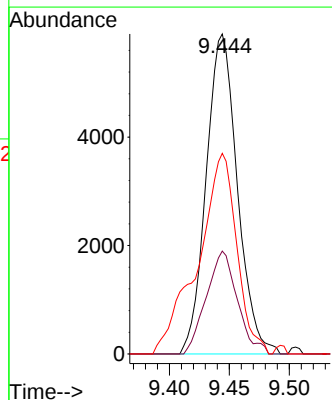
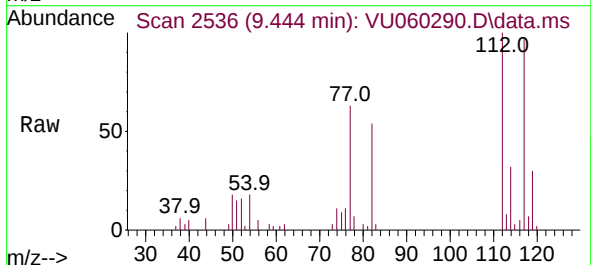
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-MED-SOIL-QT3-2024-05

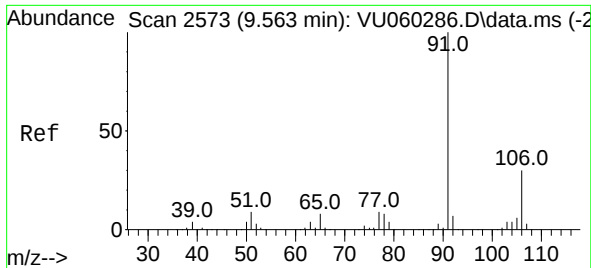
Tgt Ion:107 Resp: 4323  
Ion Ratio Lower Upper  
107 100  
109 81.9 65.5 121.6  
188 0.0 3.0 4.4#



#51  
Chlorobenzene  
Concen: 2.508 ug/L  
RT: 9.444 min Scan# 2536  
Delta R.T. 0.003 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

Tgt Ion:112 Resp: 10687  
Ion Ratio Lower Upper  
112 100  
114 34.8 22.7 42.3  
77 62.7 45.8 68.6





#52

Ethylbenzene

Concen: 2.079 ug/L

RT: 9.566 min Scan# 2573

Delta R.T. 0.003 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

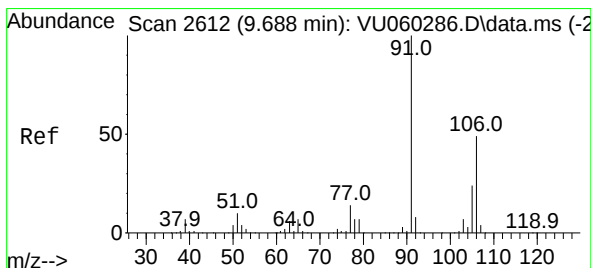
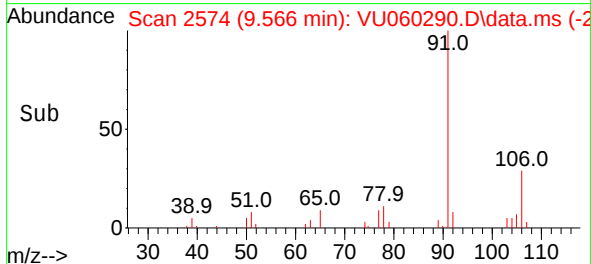
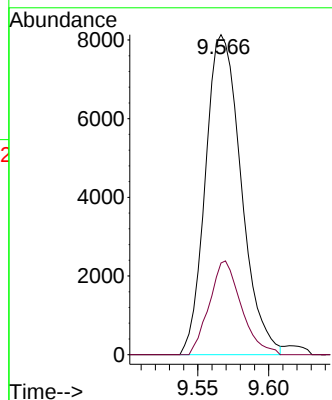
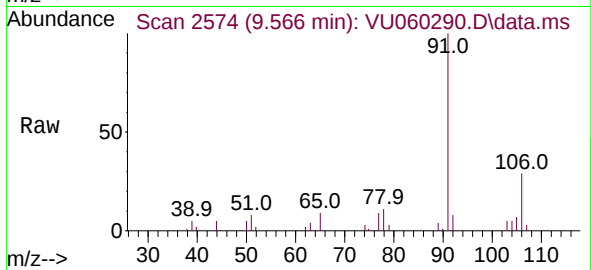
MDL-MED-SOIL-QT3-2024-05

Tgt Ion: 91 Resp: 14251

Ion Ratio Lower Upper

91 100

106 28.6 22.4 41.6



#53

m,p-Xylene

Concen: 1.981 ug/L

RT: 9.692 min Scan# 2613

Delta R.T. 0.003 min

Lab File: VU060290.D

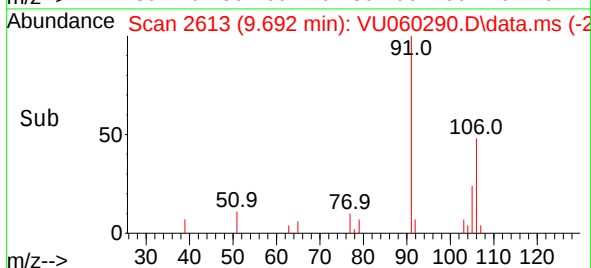
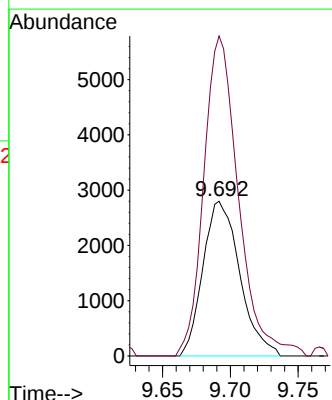
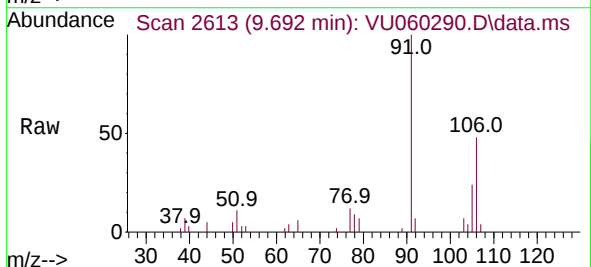
Acq: 01 Aug 2024 11:15

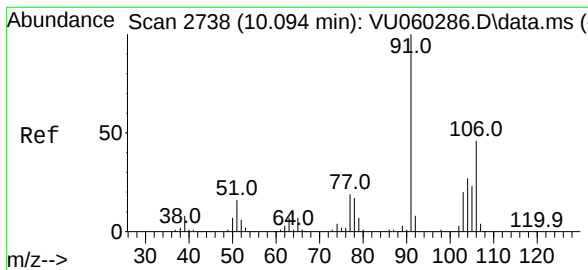
Tgt Ion:106 Resp: 5286

Ion Ratio Lower Upper

106 100

91 206.9 140.9 261.7

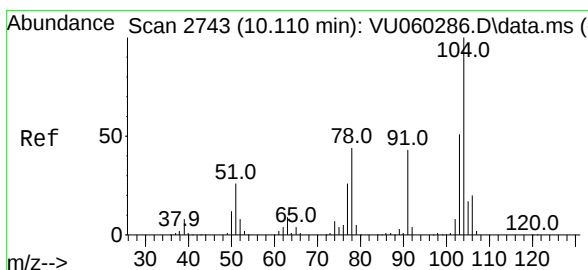
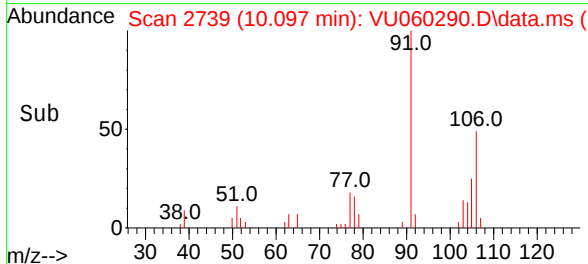
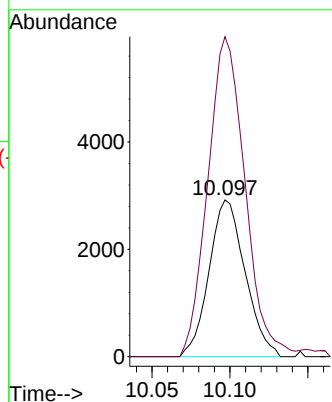
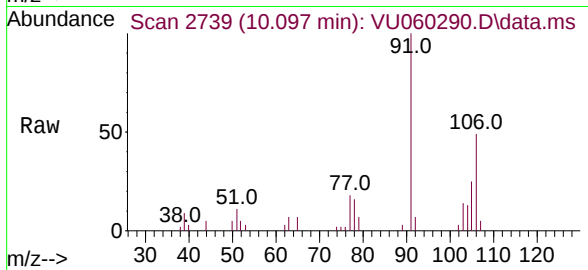




#54  
o-Xylene  
Concen: 1.830 ug/L  
RT: 10.097 min Scan# 21  
Delta R.T. 0.003 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

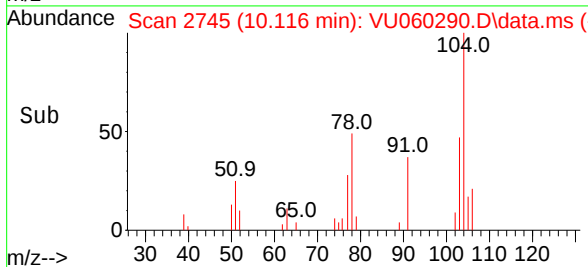
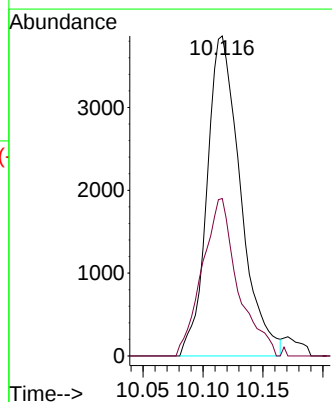
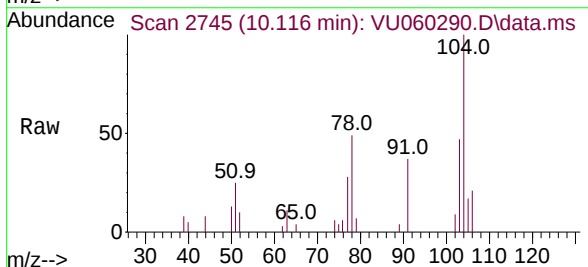
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-MED-SOIL-QT3-2024-05

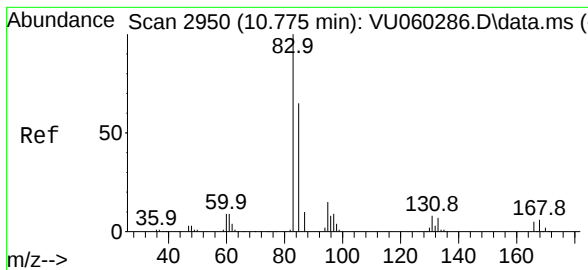
Tgt Ion:106 Resp: 4697  
Ion Ratio Lower Upper  
106 100  
91 204.1 147.4 273.8



#55  
Styrene  
Concen: 1.732 ug/L  
RT: 10.116 min Scan# 2745  
Delta R.T. 0.006 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

Tgt Ion:104 Resp: 7501  
Ion Ratio Lower Upper  
104 100  
78 49.2 30.9 57.5

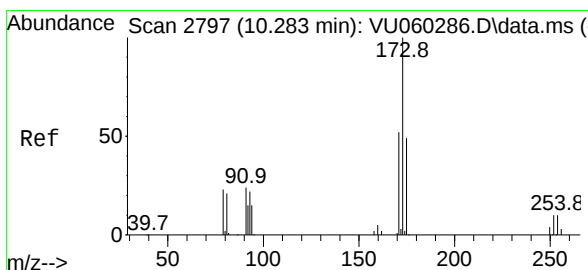
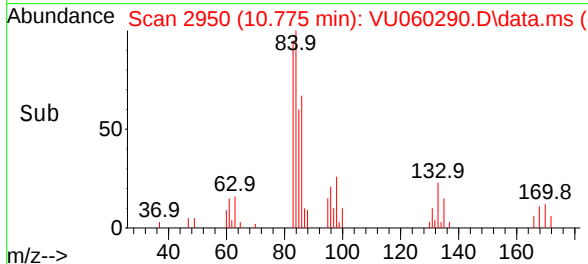
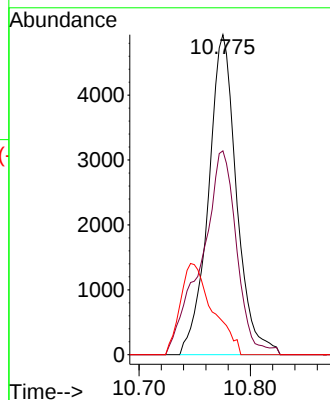
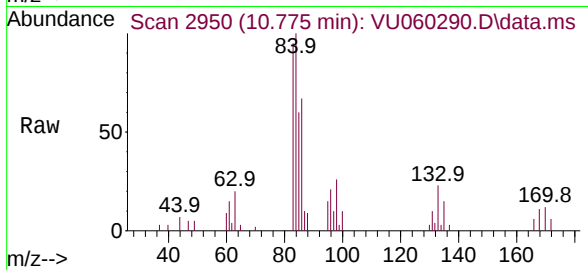




#57  
1,1,2,2-Tetrachloroethane  
Concen: 3.028 ug/L  
RT: 10.775 min Scan# 2950  
Delta R.T. 0.000 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

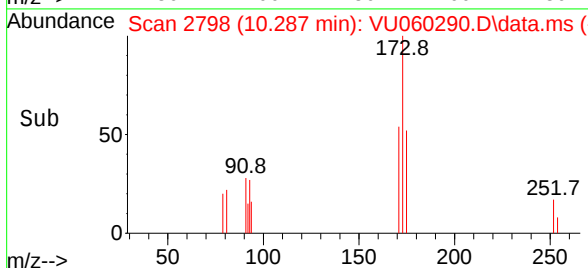
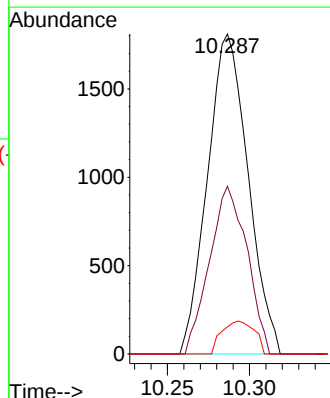
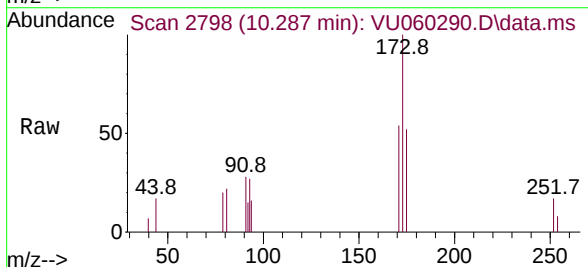
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-MED-SOIL-QT3-2024-05

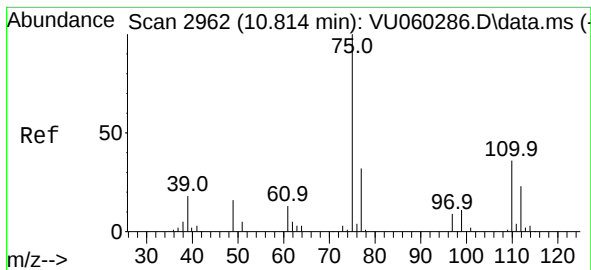
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 8654  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 63.7  | 45.4  | 84.2  |
| 131      | 10.3  | 7.5   | 11.3  |



#59  
Bromoform  
Concen: 2.872 ug/L  
RT: 10.287 min Scan# 2798  
Delta R.T. 0.003 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 173   | Resp: | 3108  |
| Ion      | Ratio | Lower | Upper |
| 173      | 100   |       |       |
| 175      | 48.4  | 39.4  | 59.2  |
| 254      | 8.3   | 9.0   | 13.4  |





#60

1,2,3-Trichloropropane

Concen: 3.533 ug/L

RT: 10.814 min Scan# 2962

Delta R.T. 0.000 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

MDL-MED-SOIL-QT3-2024-05

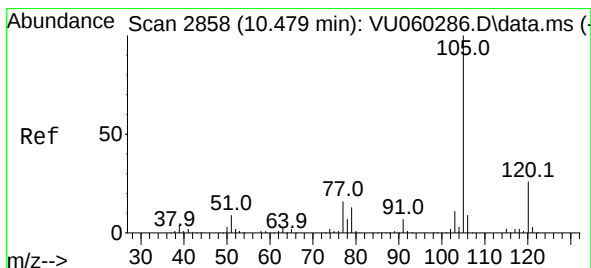
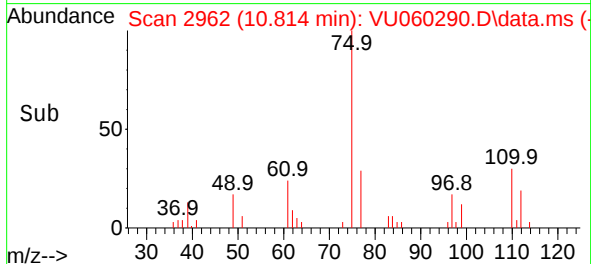
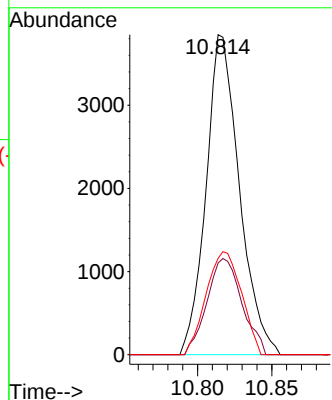
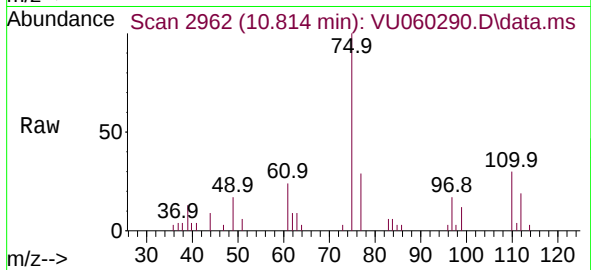
Tgt Ion: 75 Resp: 6001

Ion Ratio Lower Upper

75 100

77 31.6 25.5 38.3

110 34.1 30.7 46.1



#61

Isopropylbenzene

Concen: 2.130 ug/L

RT: 10.479 min Scan# 2858

Delta R.T. 0.000 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

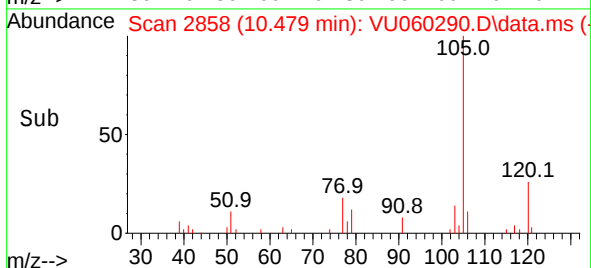
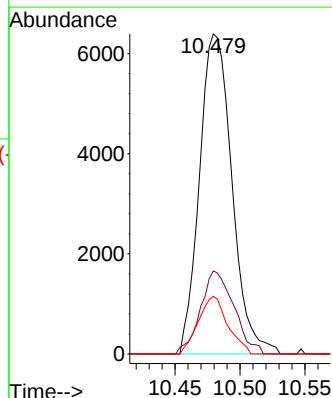
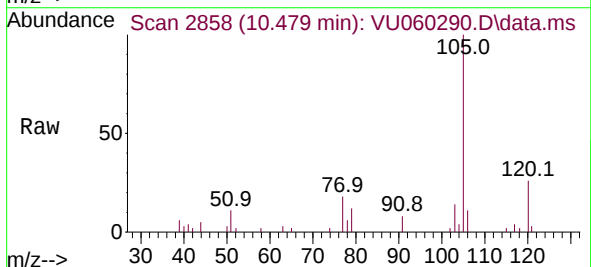
Tgt Ion: 105 Resp: 11115

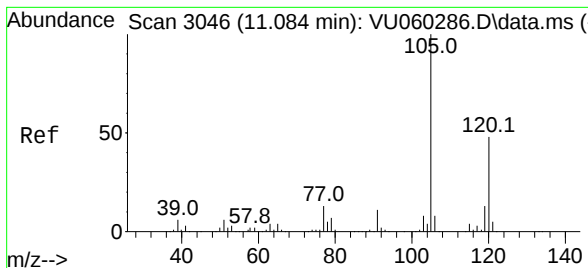
Ion Ratio Lower Upper

105 100

120 26.3 20.9 31.3

77 16.3 12.1 18.1





#62

1,3,5-Trimethylbenzene

Concen: 1.916 ug/L

RT: 11.084 min Scan# 3046

Delta R.T. 0.000 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

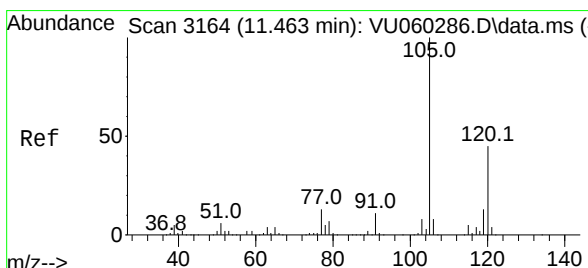
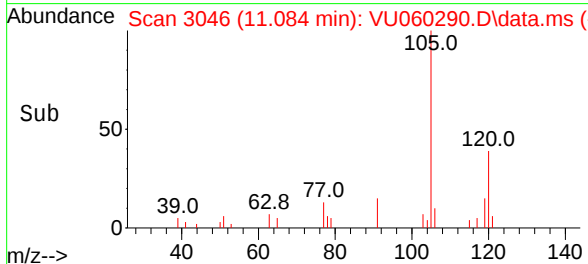
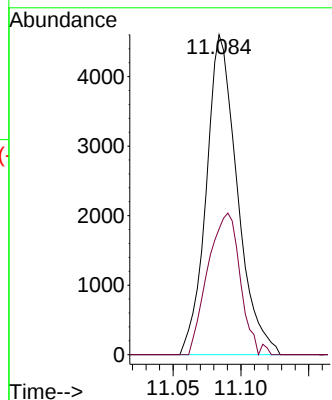
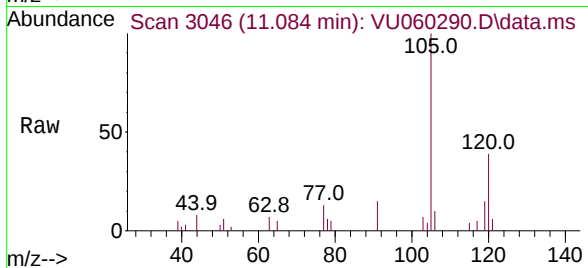
MDL-MED-SOIL-QT3-2024-05

Tgt Ion:105 Resp: 7318

Ion Ratio Lower Upper

105 100

120 45.5 39.5 59.3



#63

1,2,4-Trimethylbenzene

Concen: 1.811 ug/L

RT: 11.467 min Scan# 3165

Delta R.T. 0.003 min

Lab File: VU060290.D

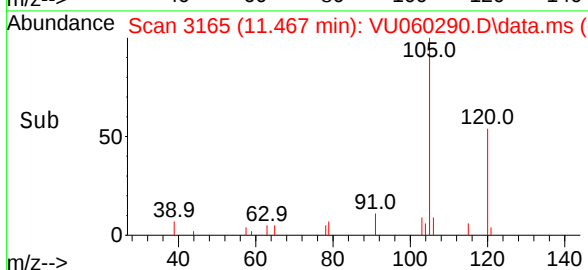
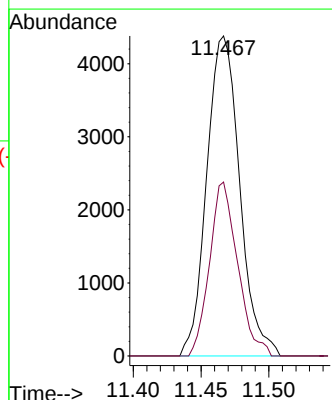
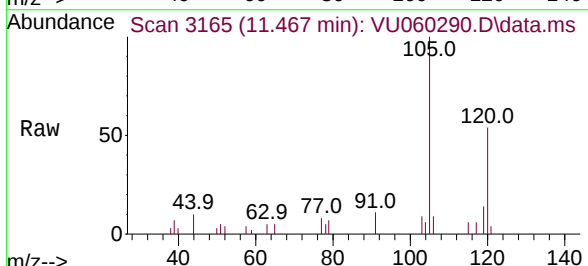
Acq: 01 Aug 2024 11:15

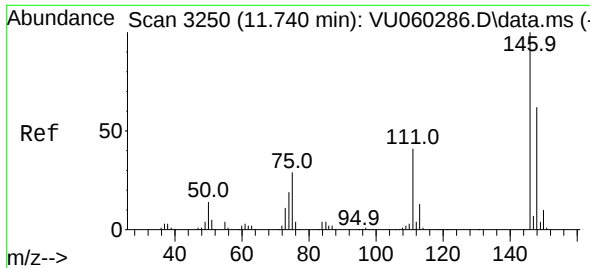
Tgt Ion:105 Resp: 7407

Ion Ratio Lower Upper

105 100

120 46.3 37.0 55.6

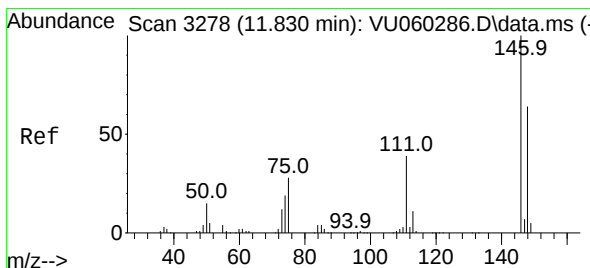
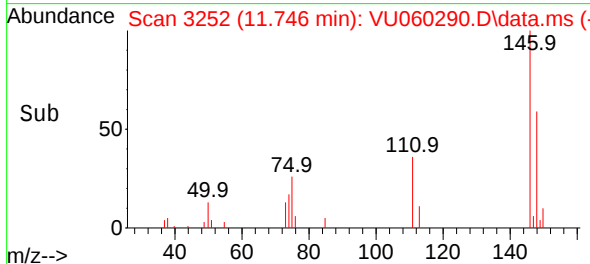
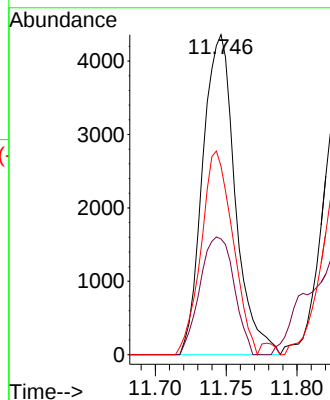
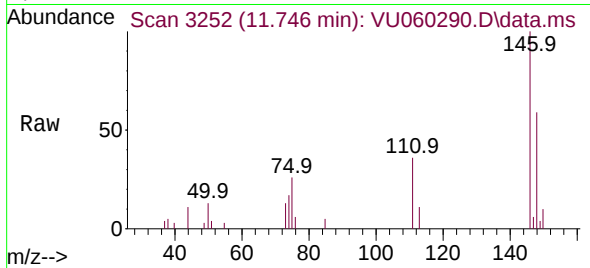




#64  
1,3-Dichlorobenzene  
Concen: 2.568 ug/L  
RT: 11.746 min Scan# 3252  
Delta R.T. 0.006 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

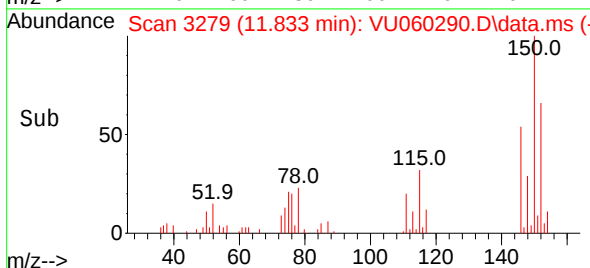
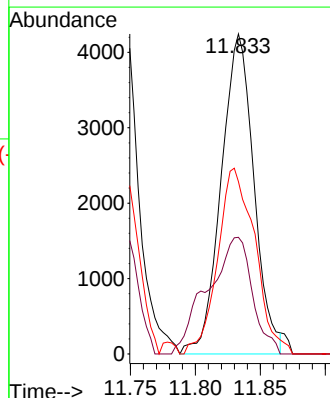
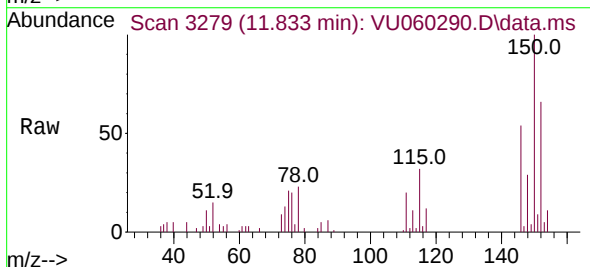
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-MED-SOIL-QT3-2024-05

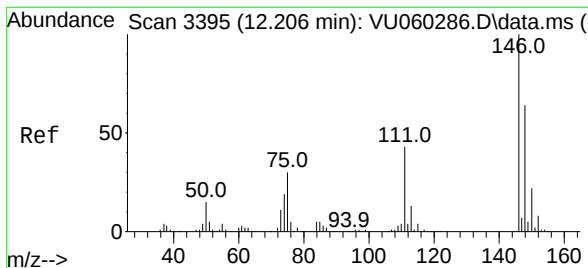
|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:146 | Resp: | 6949  |       |
| Ion         | Ratio | Lower | Upper |
| 146         | 100   |       |       |
| 111         | 36.2  | 26.5  | 49.1  |
| 148         | 58.9  | 43.8  | 81.3  |



#65  
1,4-Dichlorobenzene  
Concen: 2.658 ug/L  
RT: 11.833 min Scan# 3279  
Delta R.T. 0.003 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:146 | Resp: | 7435  |       |
| Ion         | Ratio | Lower | Upper |
| 146         | 100   |       |       |
| 111         | 34.7  | 25.9  | 48.1  |
| 148         | 51.3  | 44.0  | 81.8  |

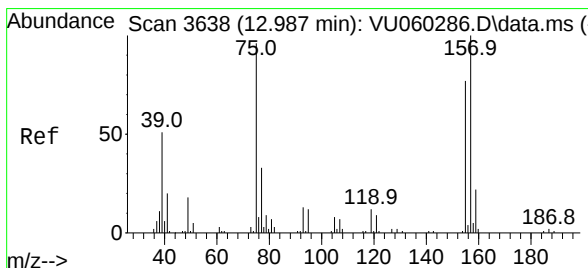
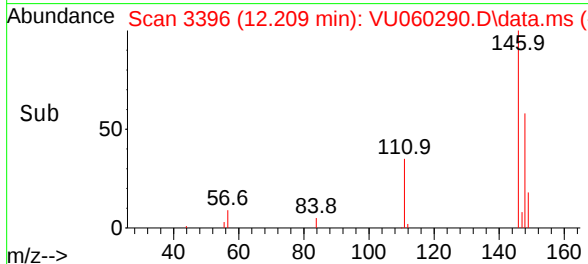
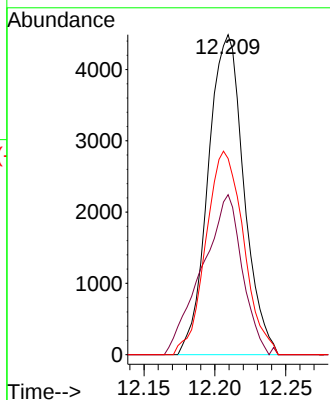
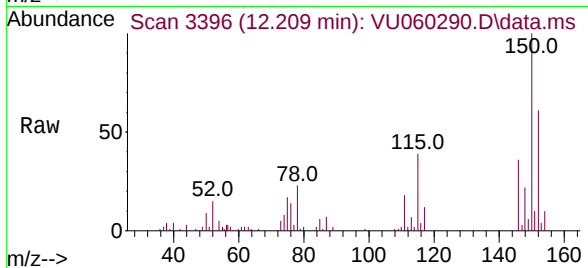




#67  
1,2-Dichlorobenzene  
Concen: 2.877 ug/L  
RT: 12.209 min Scan# 3411  
Delta R.T. 0.003 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

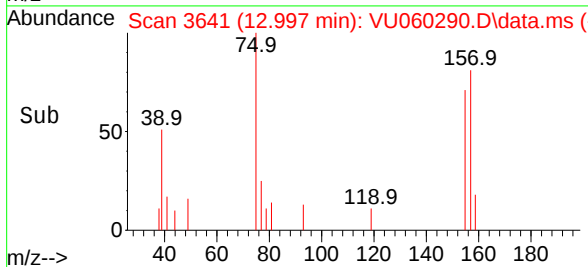
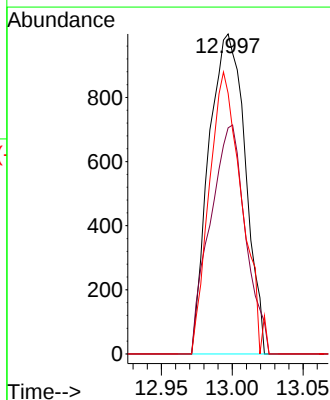
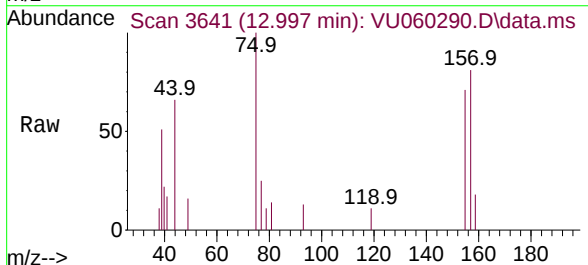
Instrument :  
MSVOA\_U  
ClientSampleId :  
MDL-MED-SOIL-QT3-2024-05

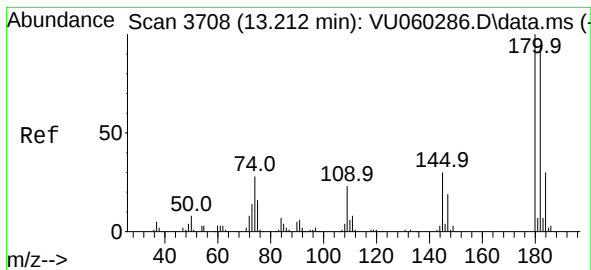
Tgt Ion:146 Resp: 7863  
Ion Ratio Lower Upper  
146 100  
111 50.0 31.7 47.5#  
148 61.3 50.8 76.2



#68  
1,2-Dibromo-3-chloropropane  
Concen: 3.838 ug/L  
RT: 12.997 min Scan# 3641  
Delta R.T. 0.010 min  
Lab File: VU060290.D  
Acq: 01 Aug 2024 11:15

Tgt Ion: 75 Resp: 1783  
Ion Ratio Lower Upper  
75 100  
155 70.6 73.5 110.3#  
157 81.5 93.5 140.3#





#69

1,3,5-Trichlorobenzene

Concen: 2.345 ug/L

RT: 13.216 min Scan# 3708

Delta R.T. 0.003 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

MDL-MED-SOIL-QT3-2024-05

Tgt Ion:180 Resp: 4574

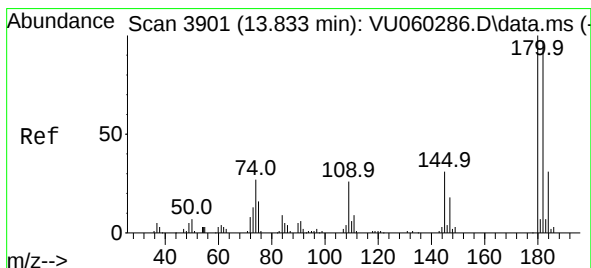
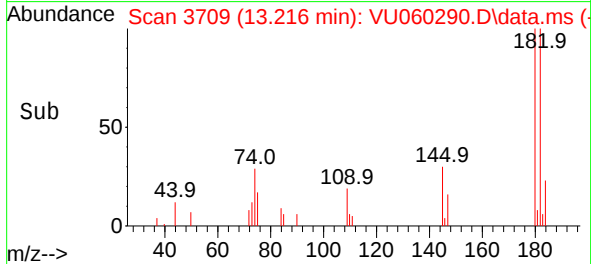
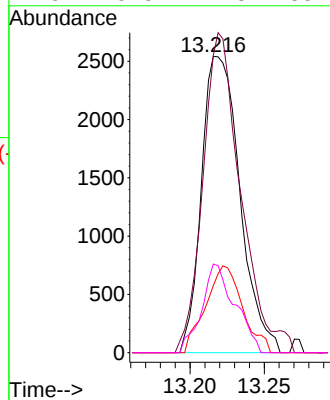
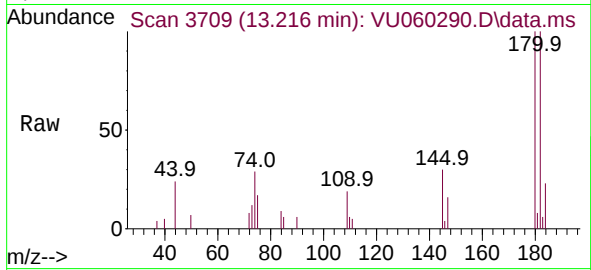
Ion Ratio Lower Upper

180 100

182 103.9 75.8 113.8

184 28.1 24.7 37.1

145 25.8 22.3 33.5



#70

1,2,4-trichlorobenzene

Concen: 2.133 ug/L

RT: 13.843 min Scan# 3904

Delta R.T. 0.010 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

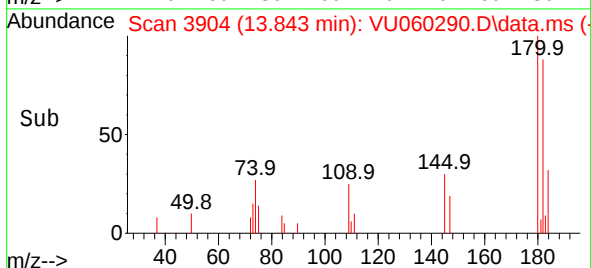
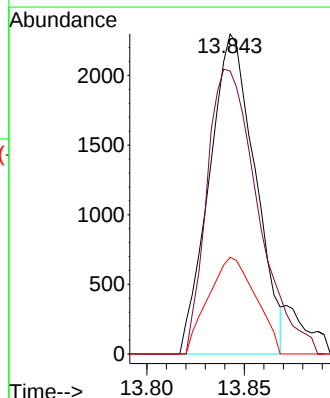
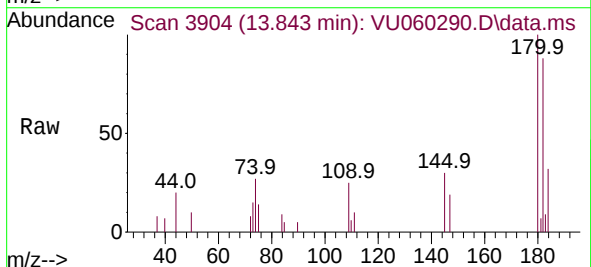
Tgt Ion:180 Resp: 3751

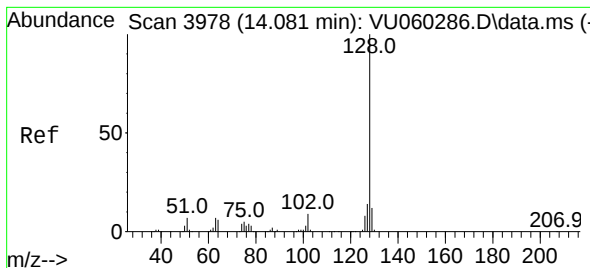
Ion Ratio Lower Upper

180 100

182 98.7 76.4 114.6

145 31.1 23.0 34.4





#71

Naphthalene

Concen: 2.051 ug/L

RT: 14.093 min Scan# 3982

Delta R.T. 0.013 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Instrument :

MSVOA\_U

ClientSampleId :

MDL-MED-SOIL-QT3-2024-05

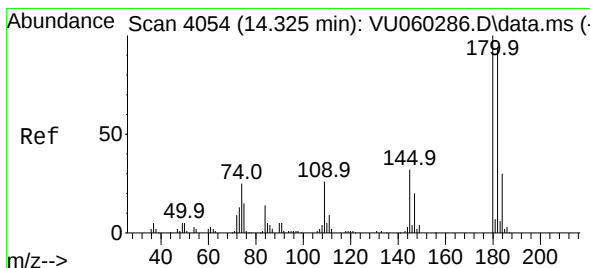
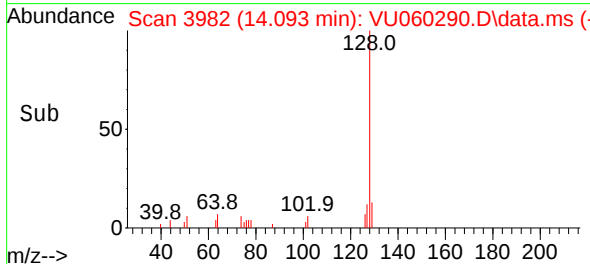
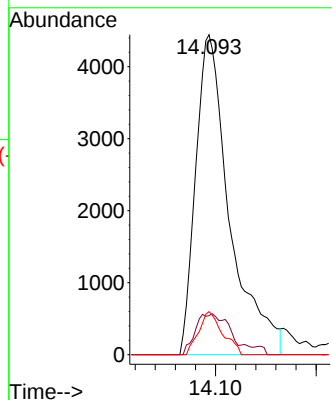
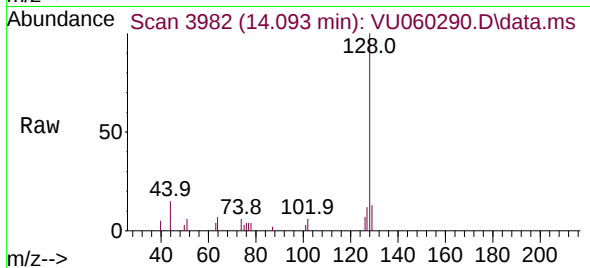
Tgt Ion:128 Resp: 10420

Ion Ratio Lower Upper

128 100

127 4.6 10.4 15.6#

129 9.4 8.6 13.0



#72

1,2,3-Trichlorobenzene

Concen: 2.257 ug/L

RT: 14.331 min Scan# 4056

Delta R.T. 0.006 min

Lab File: VU060290.D

Acq: 01 Aug 2024 11:15

Tgt Ion:180 Resp: 3982

Ion Ratio Lower Upper

180 100

182 95.4 75.8 113.8

145 27.9 24.5 36.7

