

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021722\  
 Data File : VX027087.D  
 Acq On : 17 Feb 2022 18:52  
 Operator : JC/MD  
 Sample : N1556-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 NE-SURFICIAL-SOIL

Quant Time: Feb 18 03:54:22 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X020822W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Feb 08 07:07:46 2022  
 Response via : Initial Calibration

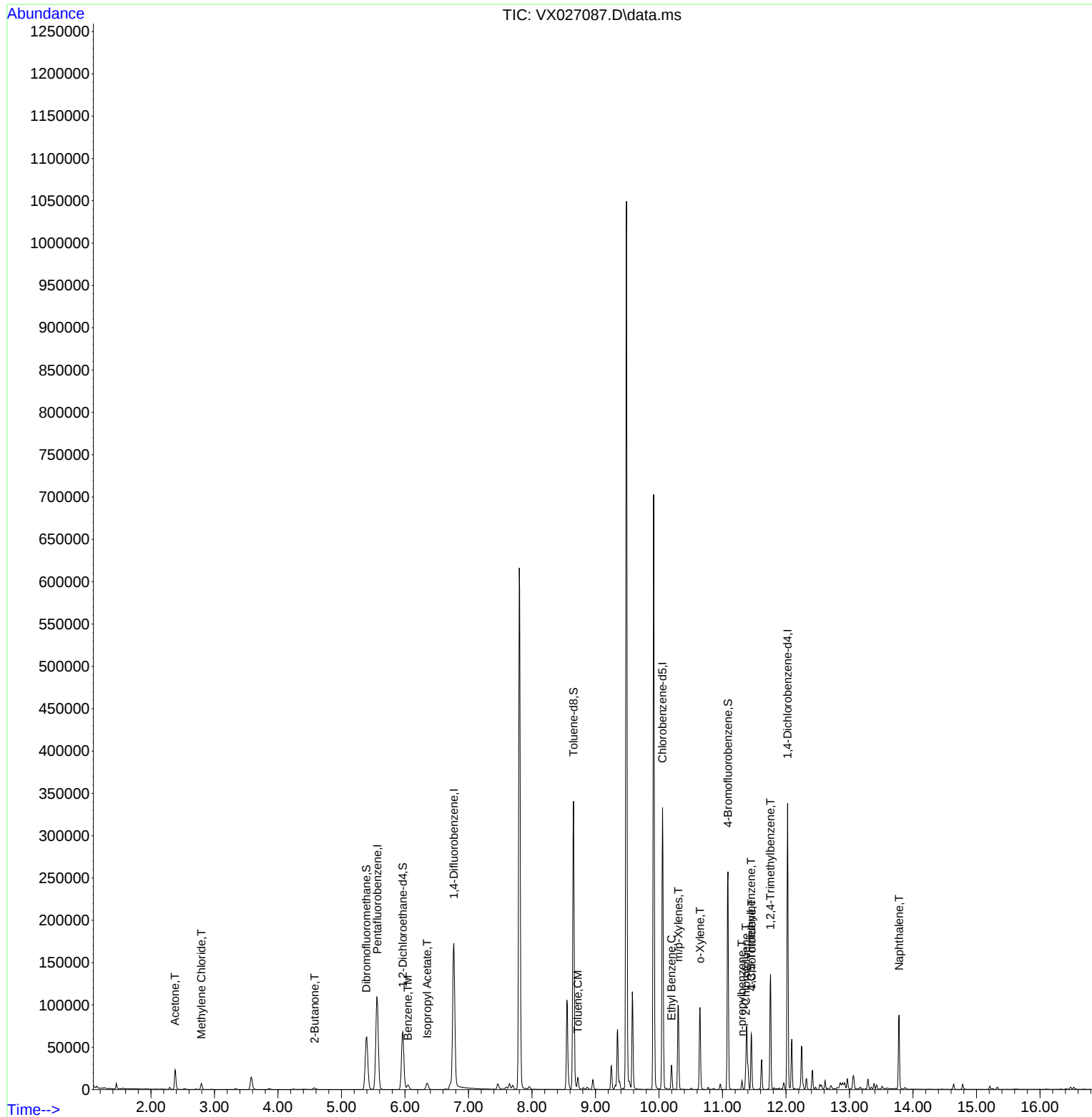
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Pentafluorobenzene       | 5.562  | 168   | 105483   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 6.769  | 114   | 176289   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 10.055 | 117   | 150846   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 12.024 | 152   | 68024    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 5.964  | 65    | 66578    | 52.580   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | = 105.160% |          |
| 35) Dibromofluoromethane    | 5.391  | 113   | 55697    | 53.030   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 106.060% |          |
| 50) Toluene-d8              | 8.653  | 98    | 200021   | 51.882   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | = 103.760% |          |
| 62) 4-Bromofluorobenzene    | 11.085 | 95    | 70908    | 52.241   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | = 104.480% |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          | Qvalue     |          |
| 16) Acetone                 | 2.380  | 43    | 24105    | 43.344   | ug/l       | 97       |
| 20) Methylene Chloride      | 2.794  | 84    | 2990     | 2.481    | ug/l       | 97       |
| 25) 2-Butanone              | 4.574  | 43    | 3871     | 4.320    | ug/l #     | 90       |
| 40) Benzene                 | 6.044  | 78    | 6524     | 1.351    | ug/l       | 97       |
| 43) Isopropyl Acetate       | 6.348  | 43    | 10778    | 3.720    | ug/l       | 99       |
| 52) Toluene                 | 8.720  | 92    | 4876     | 1.595    | ug/l       | 100      |
| 67) Ethyl Benzene           | 10.195 | 91    | 16912    | 3.063    | ug/l       | 98       |
| 68) m/p-Xylenes             | 10.305 | 106   | 23847    | 11.226   | ug/l       | 99       |
| 69) o-Xylene                | 10.647 | 106   | 16446    | 7.901    | ug/l       | 100      |
| 78) n-propylbenzene         | 11.305 | 91    | 6084     | 1.024    | ug/l       | 99       |
| 79) 2-Chlorotoluene         | 11.366 | 91    | 16315    | 4.445    | ug/l       | 81       |
| 80) 1,3,5-Trimethylbenzene  | 11.451 | 105   | 24502    | 5.556    | ug/l       | 98       |
| 82) 4-Chlorotoluene         | 11.457 | 91    | 7720     | 1.875    | ug/l       | 89       |
| 84) 1,2,4-Trimethylbenzene  | 11.756 | 105   | 59405    | 13.355   | ug/l       | 96       |
| 95) Naphthalene             | 13.780 | 128   | 54622    | 10.973   | ug/l       | 100      |
| -----                       |        |       |          |          |            |          |

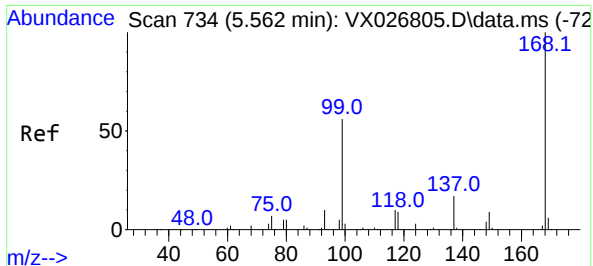
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021722\  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
NE-SURFICIAL-SOIL

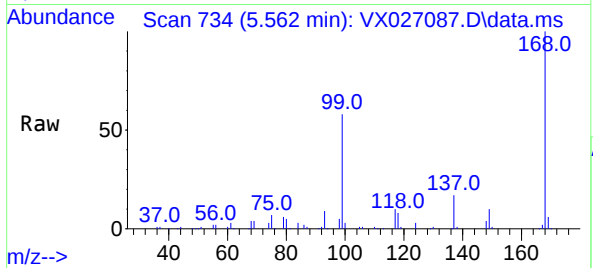
Quant Time: Feb 18 03:54:22 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X020822W.M  
Quant Title : SW846 8260  
QLast Update : Tue Feb 08 07:07:46 2022  
Response via : Initial Calibration



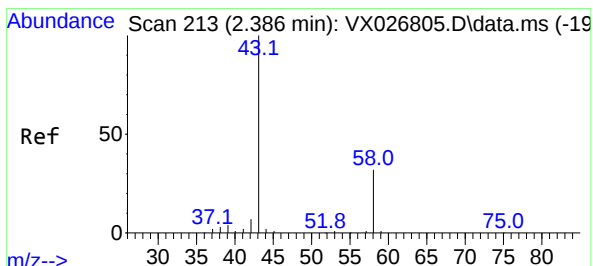
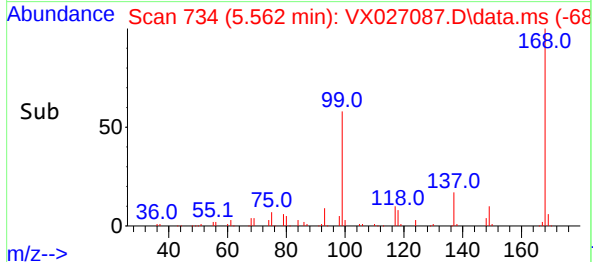
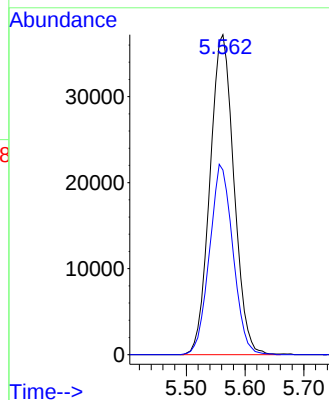


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
NE-SURFICIAL-SOIL

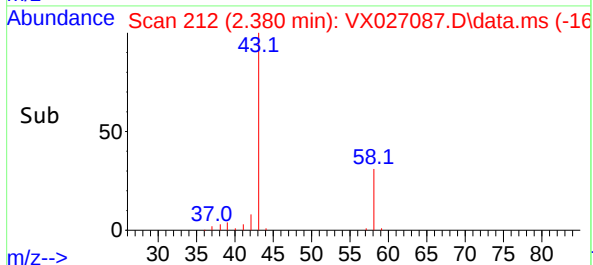
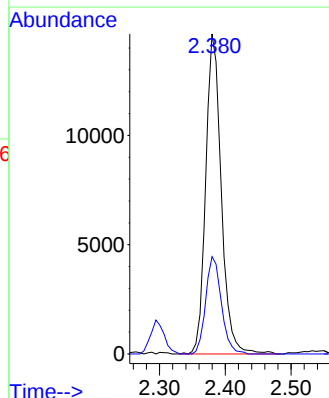
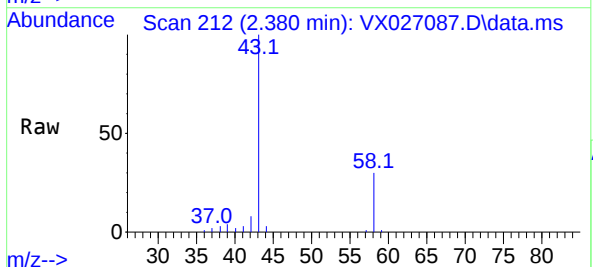


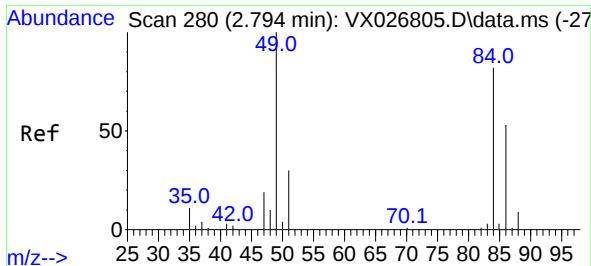
Tgt Ion:168 Resp: 105483  
Ion Ratio Lower Upper  
168 100  
99 57.7 50.3 75.5



#16  
Acetone  
Concen: 43.344 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. -0.006 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

Tgt Ion: 43 Resp: 24105  
Ion Ratio Lower Upper  
43 100  
58 30.4 23.0 34.6



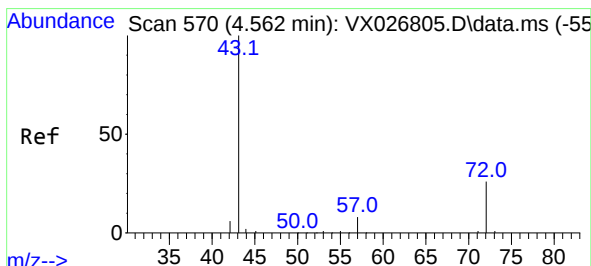
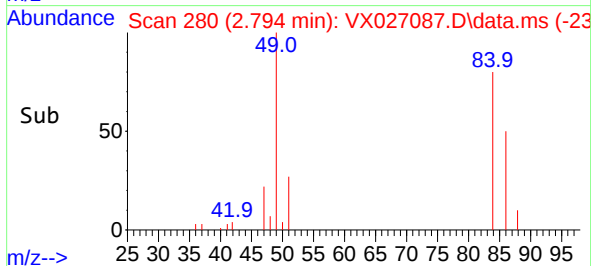
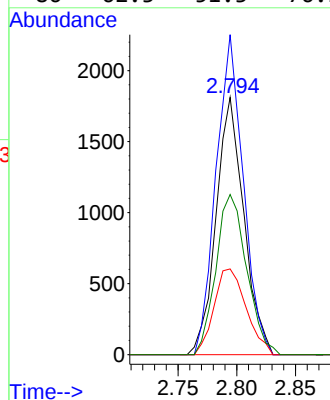
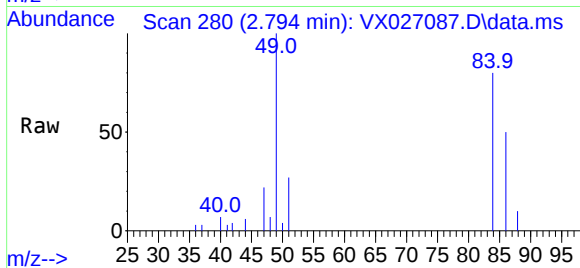


#20  
Methylene Chloride  
Concen: 2.481 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
NE-SURFICIAL-SOIL

Tgt Ion: 84 Resp: 2990

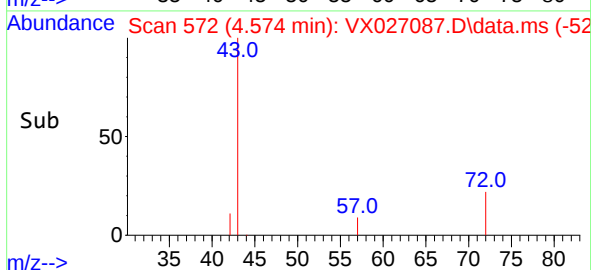
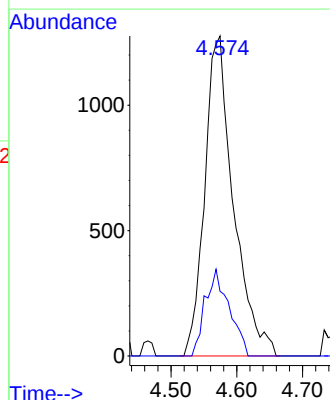
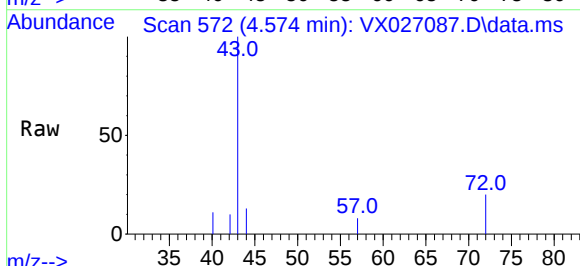
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 124.4 | 101.5 | 152.3 |
| 51  | 33.4  | 31.2  | 46.8  |
| 86  | 62.3  | 51.3  | 76.9  |

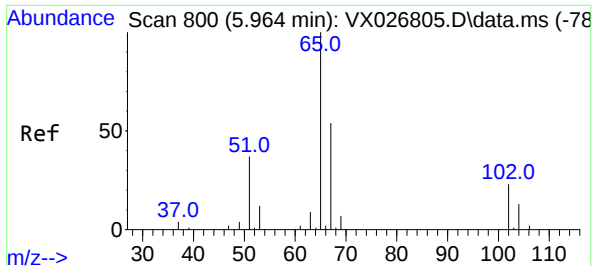


#25  
2-Butanone  
Concen: 4.320 ug/l  
RT: 4.574 min Scan# 572  
Delta R.T. 0.012 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

Tgt Ion: 43 Resp: 3871

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 20.2  | 20.4  | 30.6  |





#33

1,2-Dichloroethane-d4

Concen: 52.580 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX027087.D

Acq: 17 Feb 2022 18:52

Instrument :

MSVOA\_X

ClientSampleId :

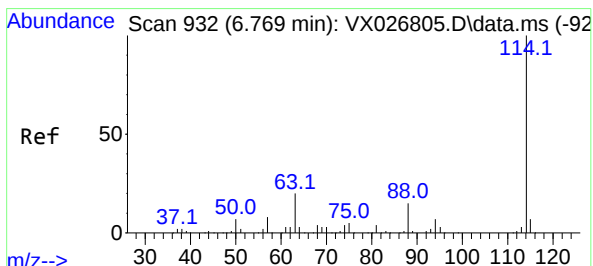
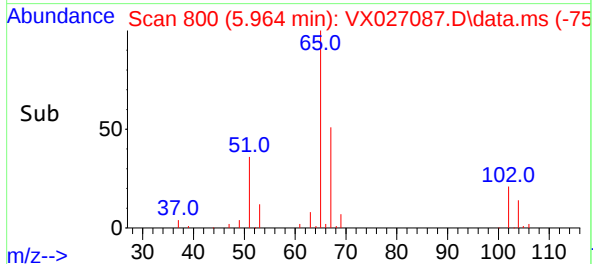
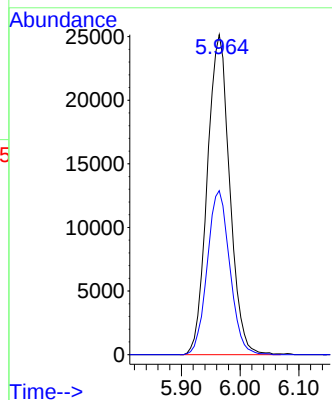
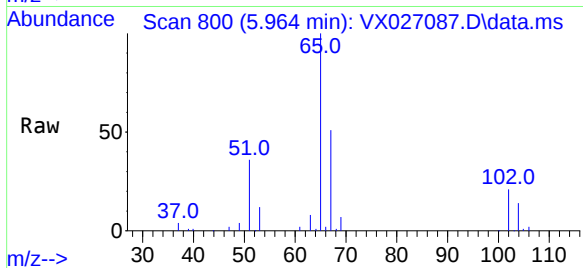
NE-SURFICIAL-SOIL

Tgt Ion: 65 Resp: 66578

Ion Ratio Lower Upper

65 100

67 51.6 0.0 100.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.000 min

Lab File: VX027087.D

Acq: 17 Feb 2022 18:52

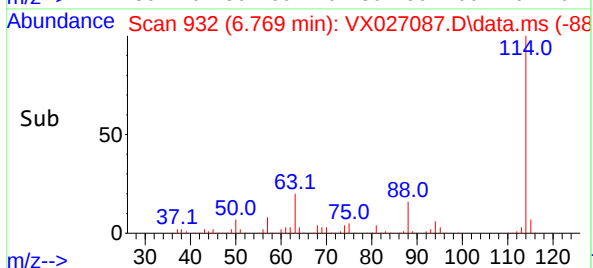
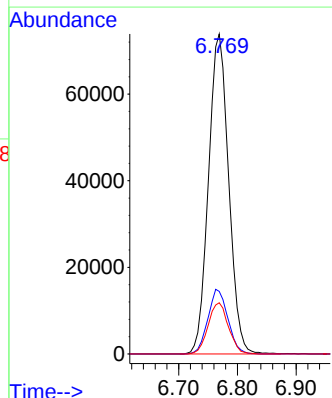
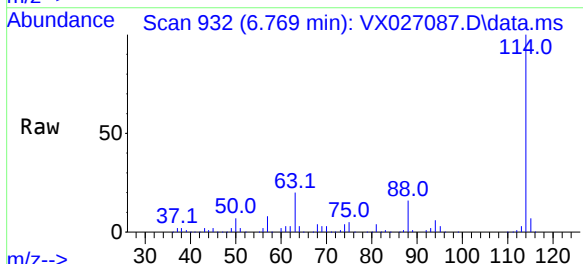
Tgt Ion: 114 Resp: 176289

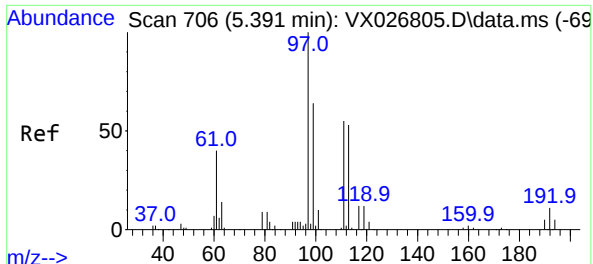
Ion Ratio Lower Upper

114 100

63 19.5 0.0 42.8

88 16.0 0.0 33.0



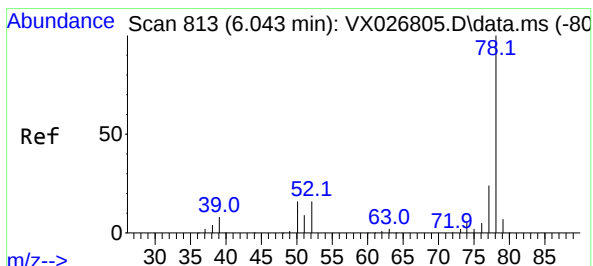
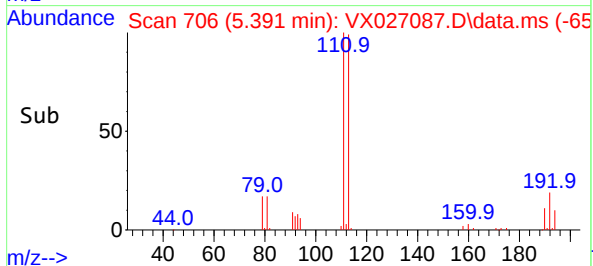
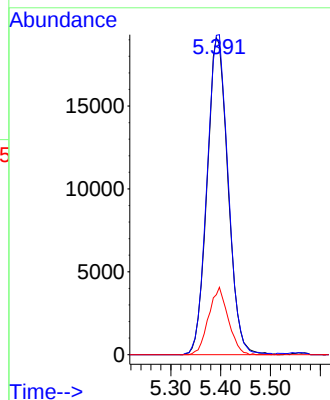
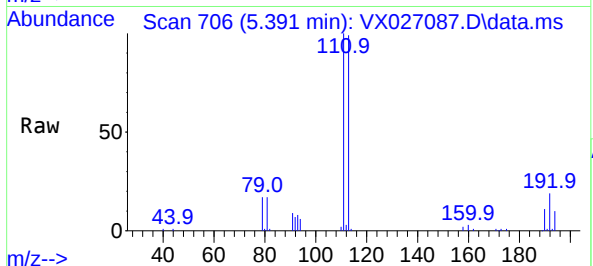


#35  
Dibromofluoromethane  
Concen: 53.030 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
NE-SURFICIAL-SOIL

Tgt Ion:113 Resp: 55697

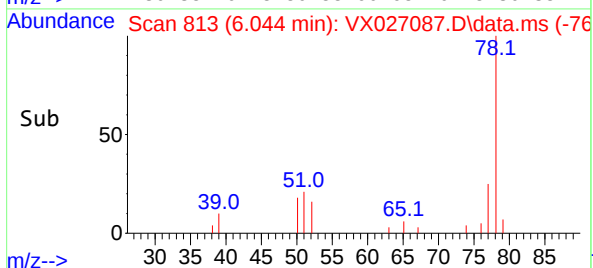
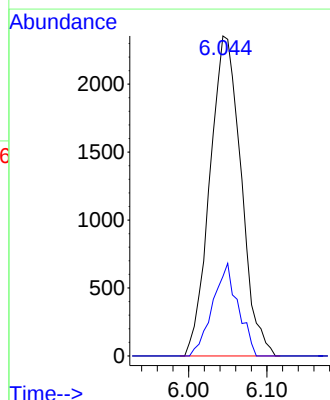
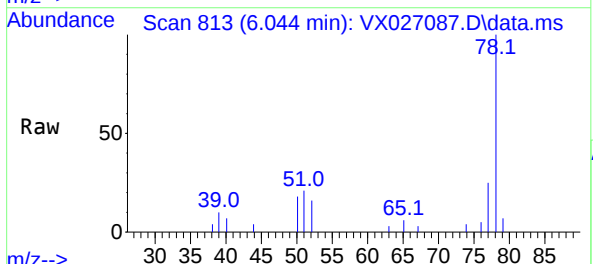
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 113 | 100   |       |       |
| 111 | 101.7 | 81.2  | 121.8 |
| 192 | 19.9  | 15.0  | 22.4  |

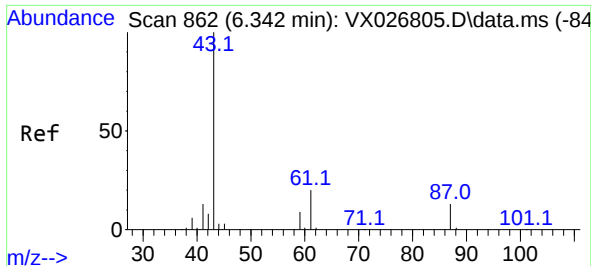


#40  
Benzene  
Concen: 1.351 ug/l  
RT: 6.044 min Scan# 813  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

Tgt Ion: 78 Resp: 6524

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 24.8  | 18.9  | 28.3  |

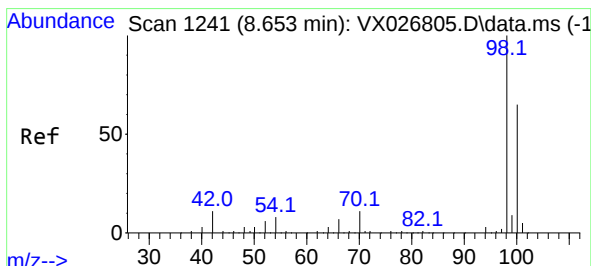
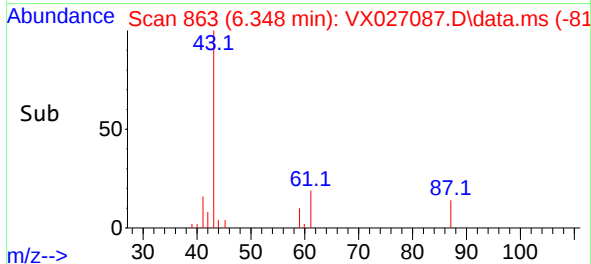
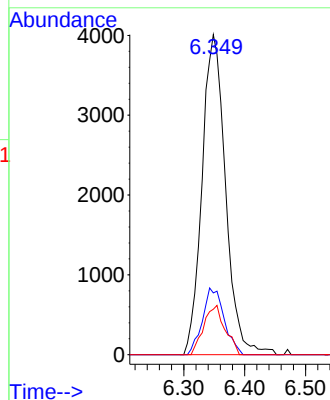
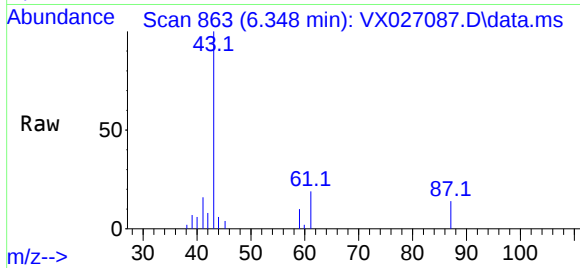




#43  
Isopropyl Acetate  
Concen: 3.720 ug/l  
RT: 6.348 min Scan# 863  
Delta R.T. 0.006 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

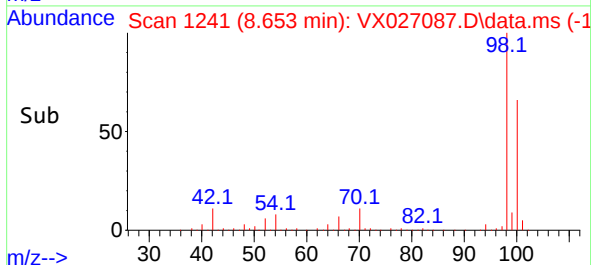
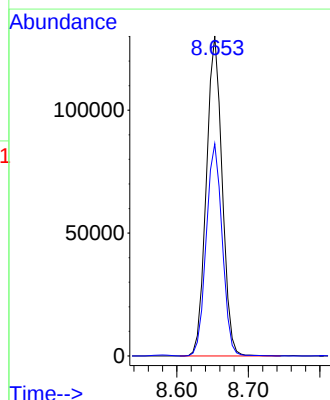
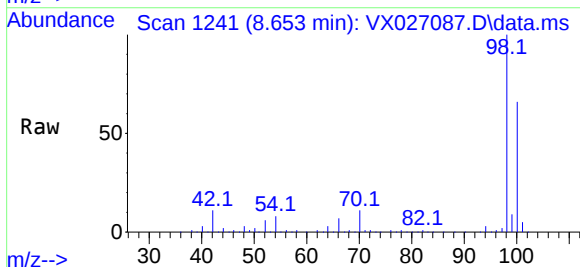
Instrument :  
MSVOA\_X  
ClientSampleId :  
NE-SURFICIAL-SOIL

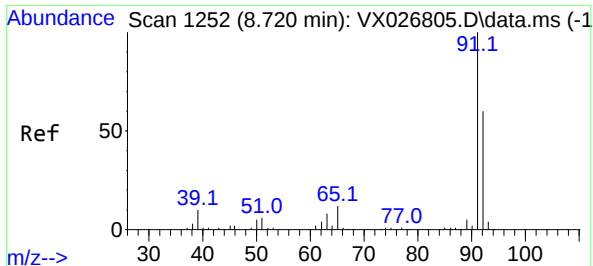
Tgt Ion: 43 Resp: 10778  
Ion Ratio Lower Upper  
43 100  
61 19.2 15.4 23.0  
87 13.9 10.2 15.2



#50  
Toluene-d8  
Concen: 51.882 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

Tgt Ion: 98 Resp: 200021  
Ion Ratio Lower Upper  
98 100  
100 67.0 53.2 79.8





#52

Toluene

Concen: 1.595 ug/l

RT: 8.720 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX027087.D

Acq: 17 Feb 2022 18:52

Instrument :

MSVOA\_X

ClientSampleId :

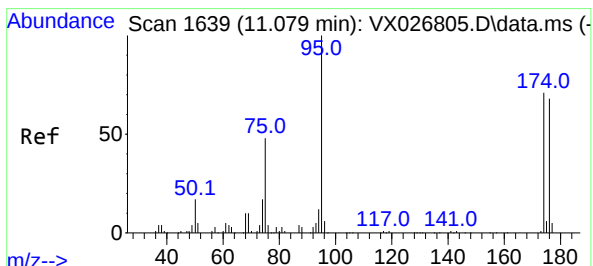
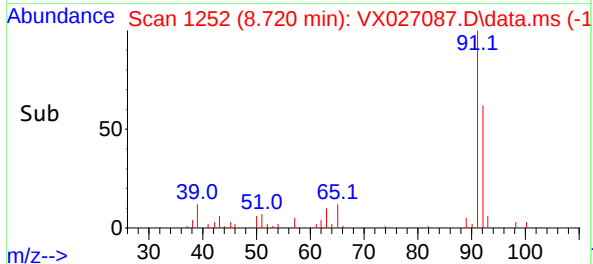
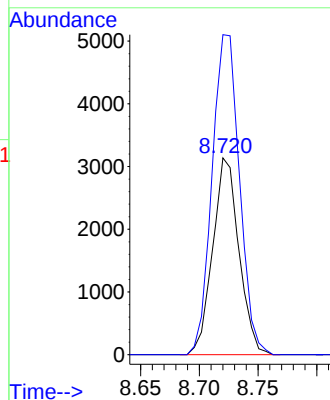
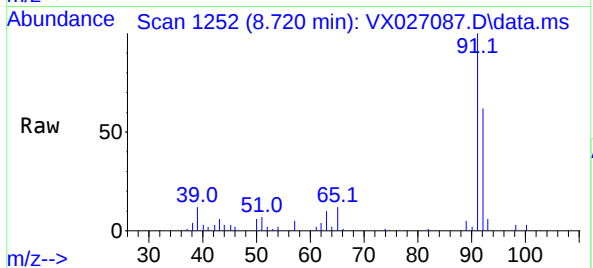
NE-SURFICIAL-SOIL

Tgt Ion: 92 Resp: 4876

Ion Ratio Lower Upper

92 100

91 170.0 135.7 203.5



#62

4-Bromofluorobenzene

Concen: 52.241 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.006 min

Lab File: VX027087.D

Acq: 17 Feb 2022 18:52

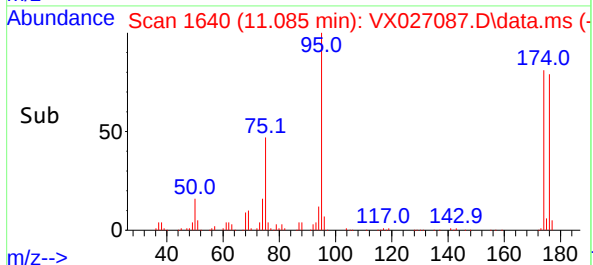
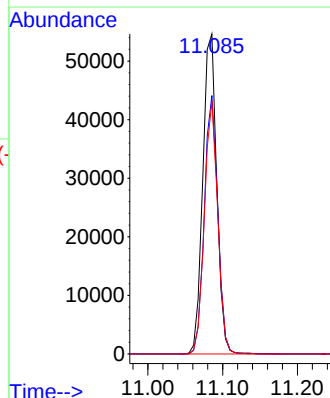
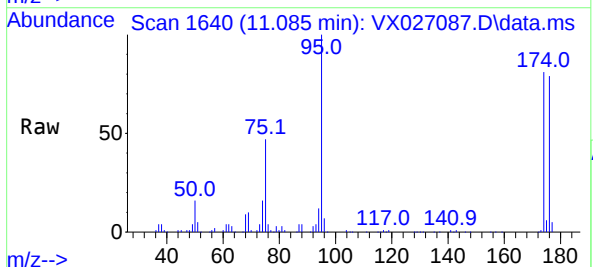
Tgt Ion: 95 Resp: 70908

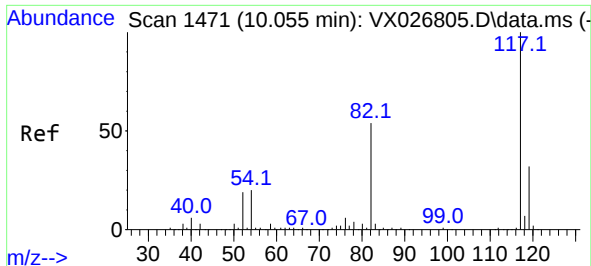
Ion Ratio Lower Upper

95 100

174 78.0 0.0 148.6

176 75.3 0.0 141.4

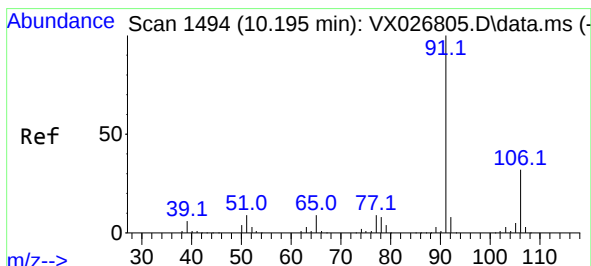
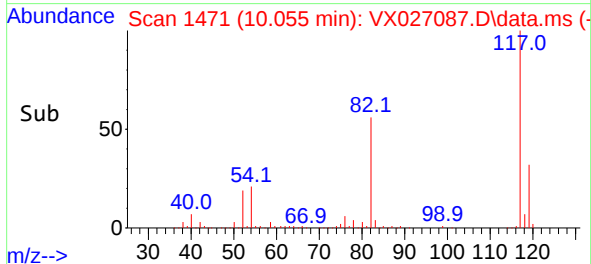
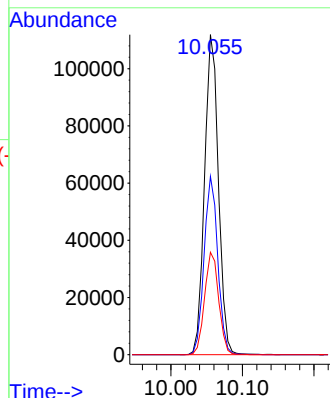
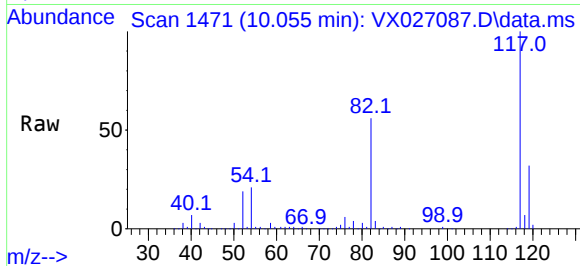




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

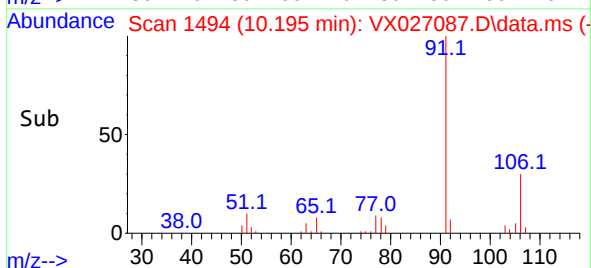
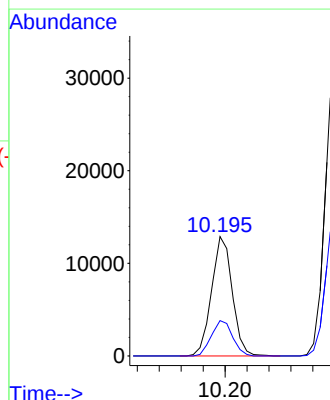
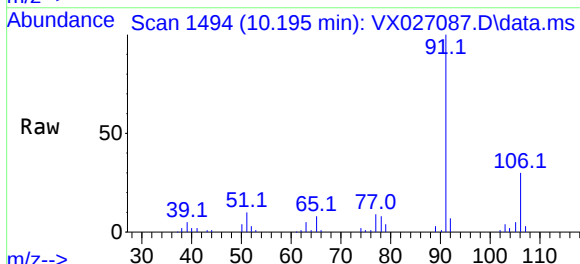
Instrument :  
MSVOA\_X  
ClientSampleId :  
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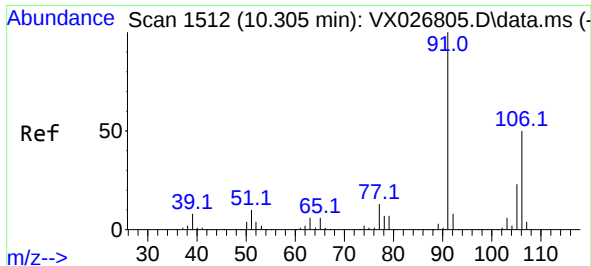
Tgt Ion:117 Resp: 150846  
Ion Ratio Lower Upper  
117 100  
82 55.7 45.2 67.8  
119 32.0 26.2 39.2



#67  
Ethyl Benzene  
Concen: 3.063 ug/l  
RT: 10.195 min Scan# 1494  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
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Tgt Ion: 91 Resp: 16912  
Ion Ratio Lower Upper  
91 100  
106 29.7 24.7 37.1

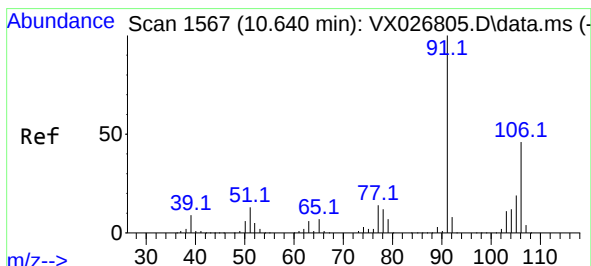
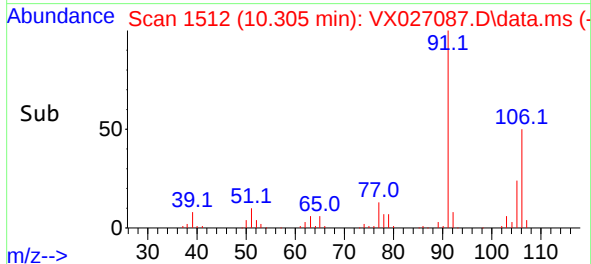
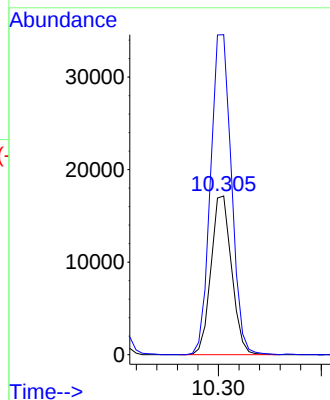
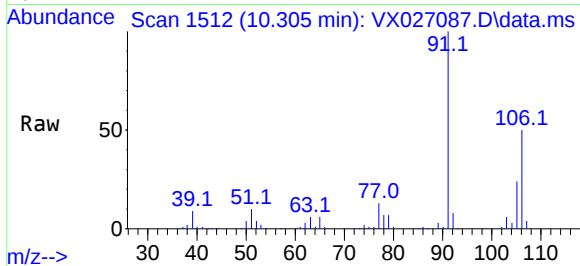




#68  
m/p-Xylenes  
Concen: 11.226 ug/l  
RT: 10.305 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

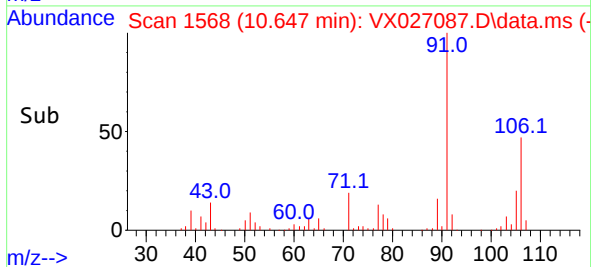
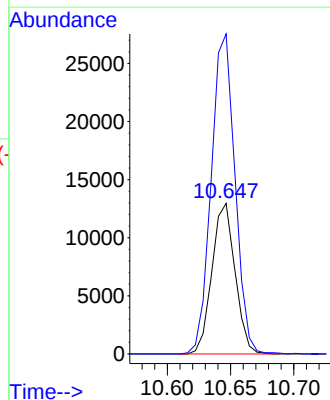
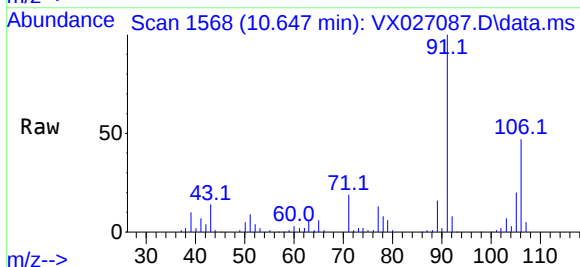
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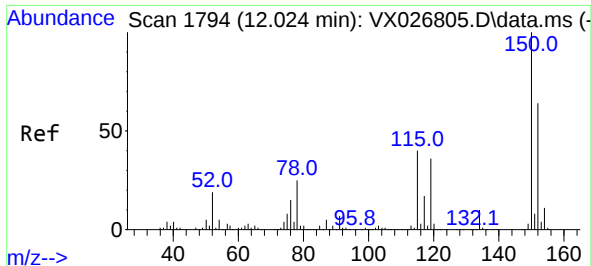
Tgt Ion:106 Resp: 23847  
Ion Ratio Lower Upper  
106 100  
91 204.4 165.3 247.9



#69  
o-Xylene  
Concen: 7.901 ug/l  
RT: 10.647 min Scan# 1568  
Delta R.T. 0.006 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

Tgt Ion:106 Resp: 16446  
Ion Ratio Lower Upper  
106 100  
91 218.9 109.7 329.0

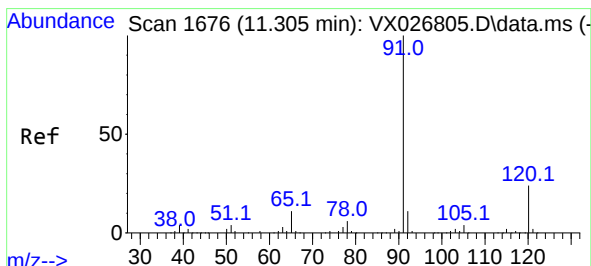
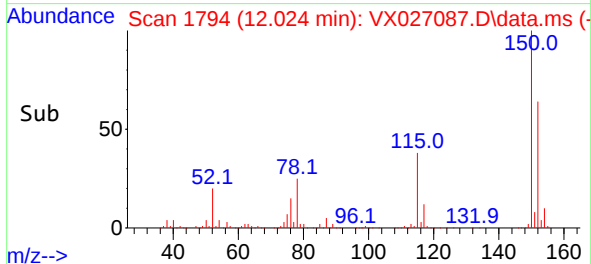
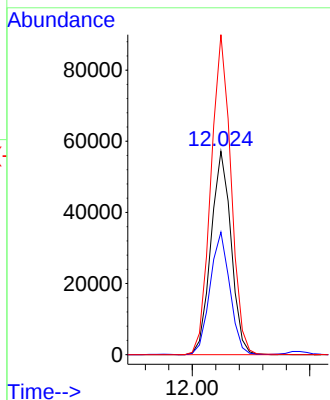
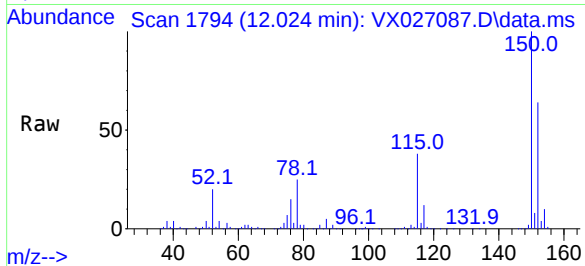




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

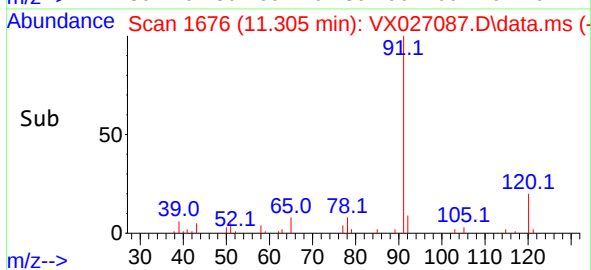
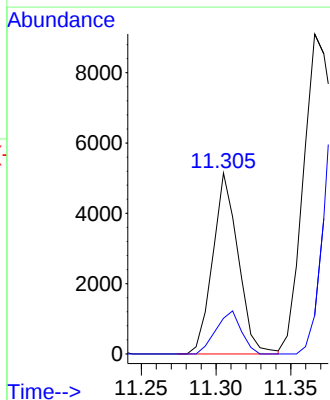
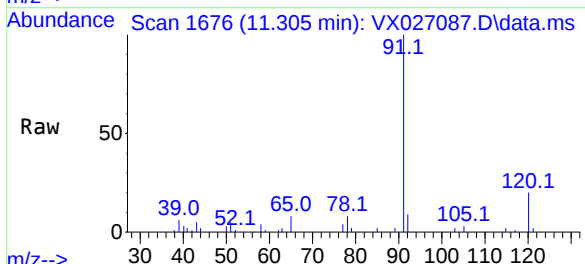
Instrument :  
MSVOA\_X  
ClientSampleId :  
NE-SURFICIAL-SOIL

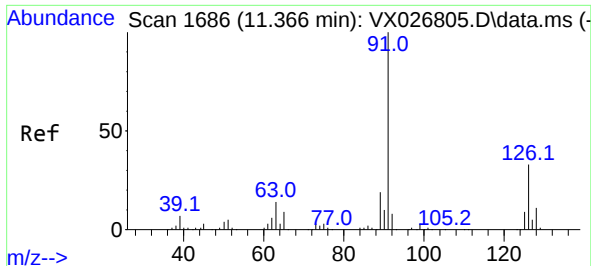
Tgt Ion:152 Resp: 68024  
Ion Ratio Lower Upper  
152 100  
115 59.3 44.2 132.6  
150 156.8 0.0 348.2



#78  
n-propylbenzene  
Concen: 1.024 ug/l  
RT: 11.305 min Scan# 1676  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

Tgt Ion: 91 Resp: 6084  
Ion Ratio Lower Upper  
91 100  
120 23.4 11.6 34.7

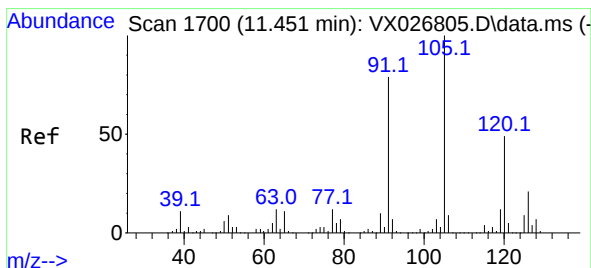
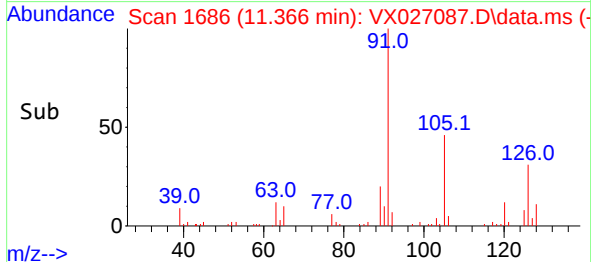
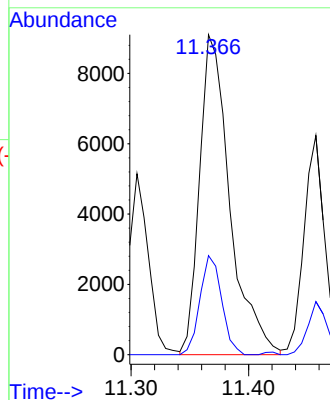
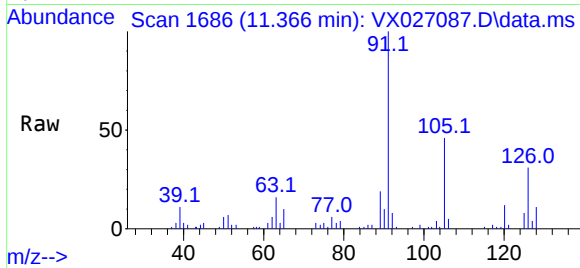




#79  
2-Chlorotoluene  
Concen: 4.445 ug/l  
RT: 11.366 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

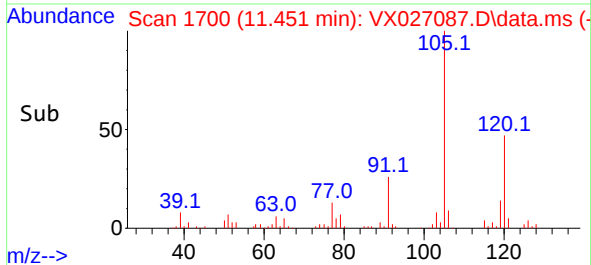
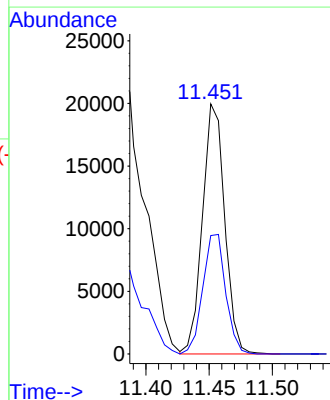
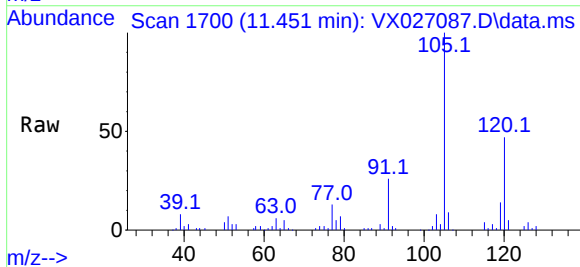
Instrument :  
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ClientSampleId :  
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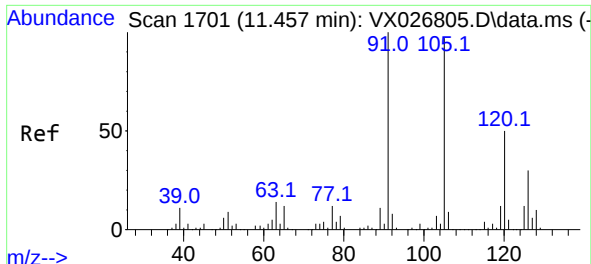
Tgt Ion: 91 Resp: 16315  
Ion Ratio Lower Upper  
91 100  
126 22.2 16.4 49.2



#80  
1,3,5-Trimethylbenzene  
Concen: 5.556 ug/l  
RT: 11.451 min Scan# 1700  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

Tgt Ion: 105 Resp: 24502  
Ion Ratio Lower Upper  
105 100  
120 49.1 24.0 72.0

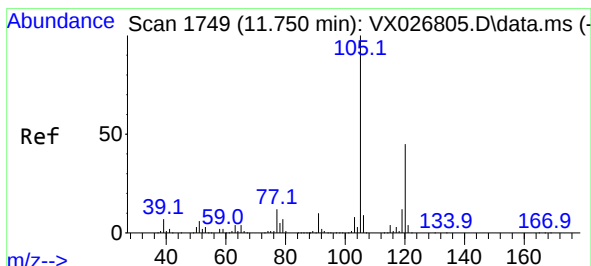
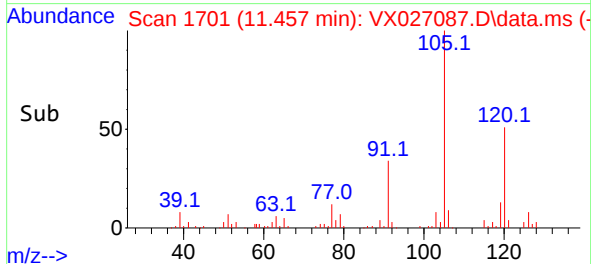
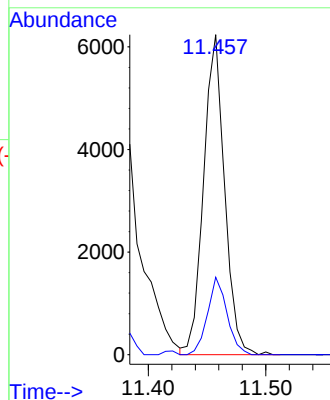
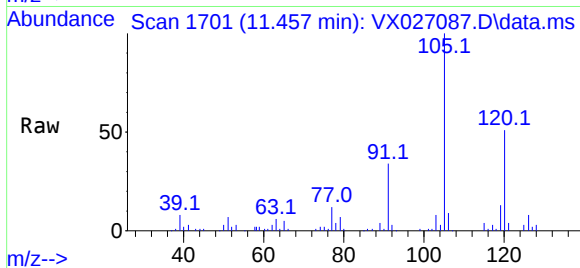




#82  
4-Chlorotoluene  
Concen: 1.875 ug/l  
RT: 11.457 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

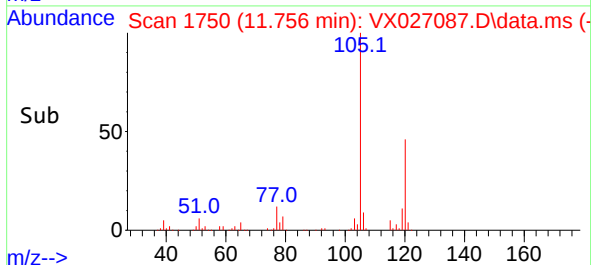
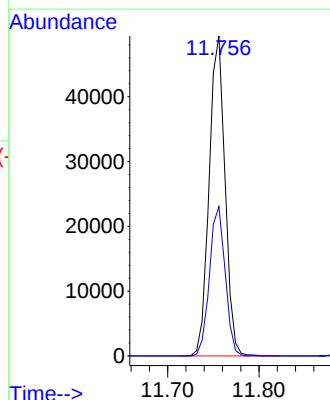
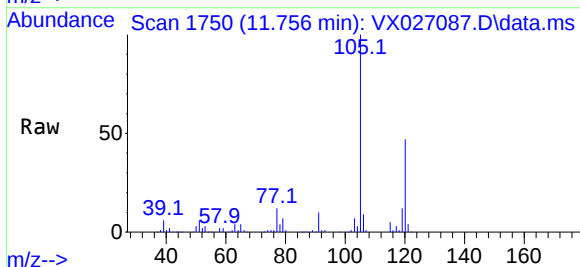
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ClientSampleId :  
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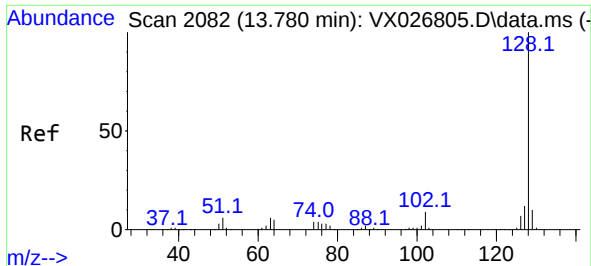
Tgt Ion: 91 Resp: 7720  
Ion Ratio Lower Upper  
91 100  
126 22.6 14.1 42.4



#84  
1,2,4-Trimethylbenzene  
Concen: 13.355 ug/l  
RT: 11.756 min Scan# 1750  
Delta R.T. 0.006 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

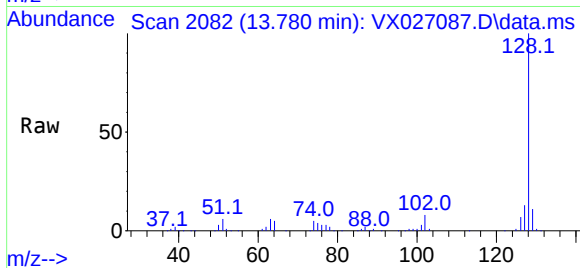
Tgt Ion:105 Resp: 59405  
Ion Ratio Lower Upper  
105 100  
120 46.2 21.9 65.5





#95  
Naphthalene  
Concen: 10.973 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.000 min  
Lab File: VX027087.D  
Acq: 17 Feb 2022 18:52

Instrument :  
MSVOA\_X  
ClientSampleId :  
NE-SURFICIAL-SOIL



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 54622 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 12.9  | 10.3  | 15.5  |
| 129      | 10.6  | 8.7   | 13.1  |

