

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX080122\  
 Data File : VX030333.D  
 Acq On : 01 Aug 2022 19:25  
 Operator : JC/MD  
 Sample : N3964-05 10X  
 Misc : 5.01g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 HMGP-SOIL-C

Quant Time: Aug 02 01:56:56 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072522W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Jul 25 16:49:17 2022  
 Response via : Initial Calibration

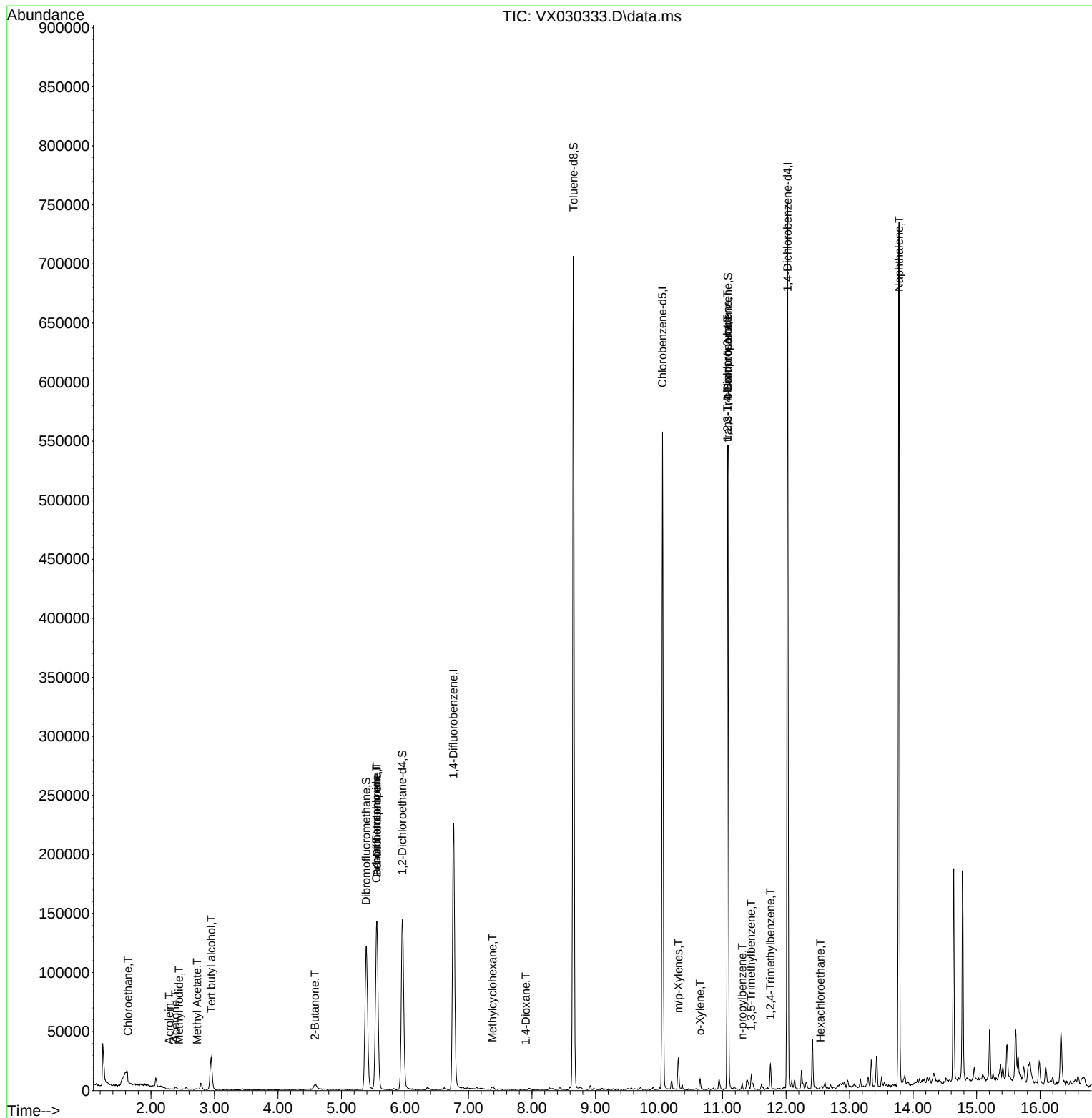
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 133654              | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 234977              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 241732              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 144880              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 138193              | 51.442    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 102.880% |           |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 107982              | 48.072    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 96.140%  |           |        |          |
| 50) Toluene-d8                | 8.653          | 98   | 416340              | 47.861    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 95.720%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.085         | 95   | 152378              | 47.199    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 94.400%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 5) Bromomethane               | 1.587          | 94   | 329                 | Below Cal | #      | 2        |
| 6) Chloroethane               | 1.636          | 64   | 1315                | 1.046     | ug/l # | 41       |
| 10) Methyl Iodide             | 2.440          | 142  | 207                 | 1.621     | ug/l # | 45       |
| 11) Tert butyl alcohol        | 2.946          | 59   | 16238               | 24.780    | ug/l # | 77       |
| 13) Acrolein                  | 2.288          | 56   | 44                  | 0.273     | ug/l # | 14       |
| 16) Acetone                   | 2.386          | 43   | 1897                | 1.379     | ug/l   | 95       |
| 18) Methyl Acetate            | 2.727          | 43   | 879                 | 0.216     | ug/l # | 64       |
| 20) Methylene Chloride        | 2.788          | 84   | 2340                | Below Cal | #      | 82       |
| 25) 2-Butanone                | 4.580          | 43   | 3654                | 1.581     | ug/l   | 100      |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 11347               | 3.510     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 13425               | 4.449     | ug/l # | 17       |
| 39) Methylcyclohexane         | 7.379          | 83   | 1134                | 0.272     | ug/l   | 96       |
| 49) 1,4-Dioxane               | 7.903          | 88   | 34                  | 0.446     | ug/l # | 1        |
| 67) Ethyl Benzene             | 10.201         | 91   | 4803                | Below Cal |        | 94       |
| 68) m/p-Xylenes               | 10.305         | 106  | 6110                | 1.374     | ug/l   | 88       |
| 69) o-Xylene                  | 10.646         | 106  | 1880                | 0.429     | ug/l   | 94       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 74590               | 19.531    | ug/l # | 38       |
| 78) n-propylbenzene           | 11.311         | 91   | 2894                | 0.214     | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene    | 11.451         | 105  | 5299                | 0.560     | ug/l   | 88       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 74590               | 58.593    | ug/l # | 13       |
| 84) 1,2,4-Trimethylbenzene    | 11.756         | 105  | 9149                | 0.968     | ug/l   | 98       |
| 90) Hexachloroethane          | 12.542         | 117  | 332                 | 0.201     | ug/l # | 16       |
| 95) Naphthalene               | 13.780         | 128  | 449986              | 39.201    | ug/l   | 100      |
| -----                         |                |      |                     |           |        |          |

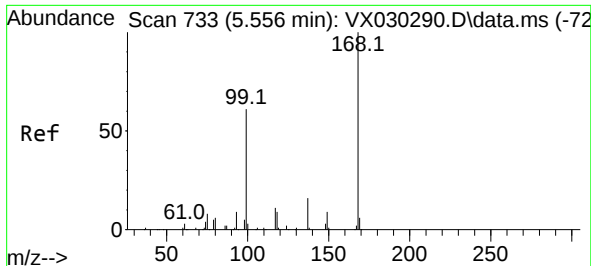
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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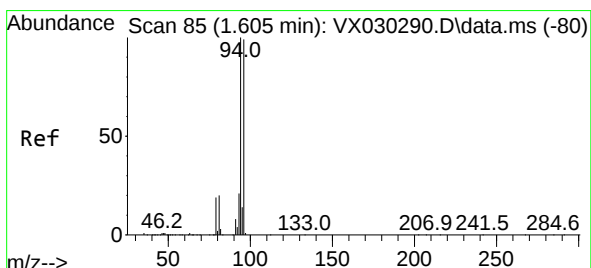
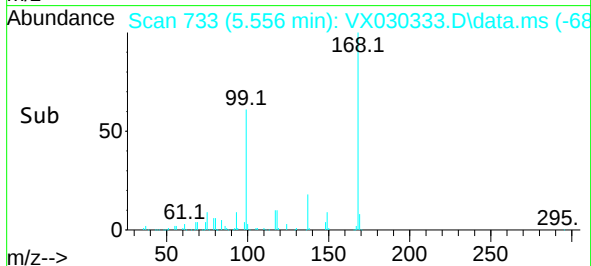
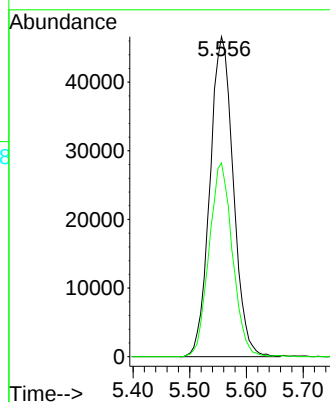
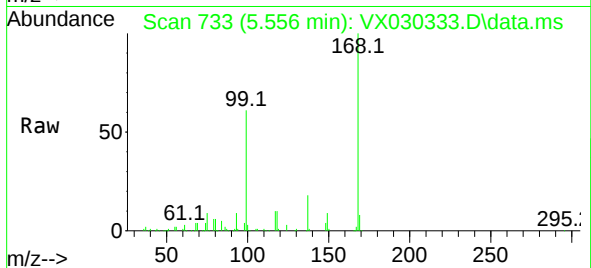




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

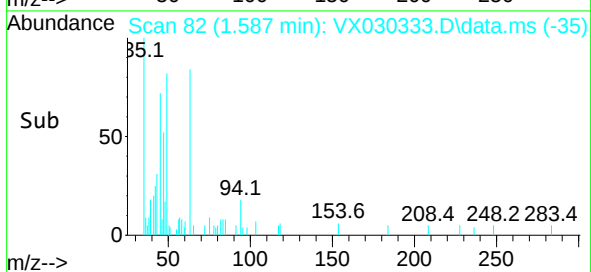
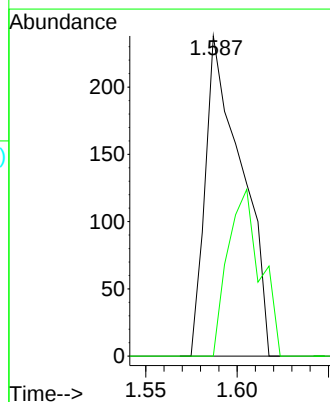
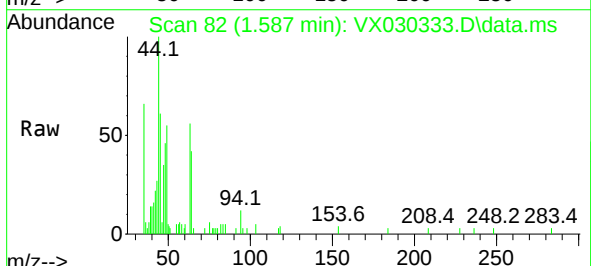
Instrument :  
MSVOA\_X  
ClientSampleId :  
HMGP-SOIL-C

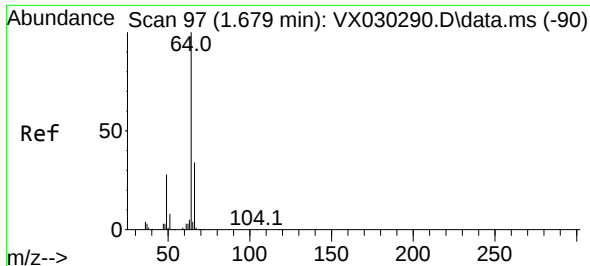
Tgt Ion:168 Resp: 133654  
Ion Ratio Lower Upper  
168 100  
99 60.6 44.0 66.0



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.587 min Scan# 82  
Delta R.T. -0.012 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

Tgt Ion: 94 Resp: 329  
Ion Ratio Lower Upper  
94 100  
96 0.0 76.9 115.3#

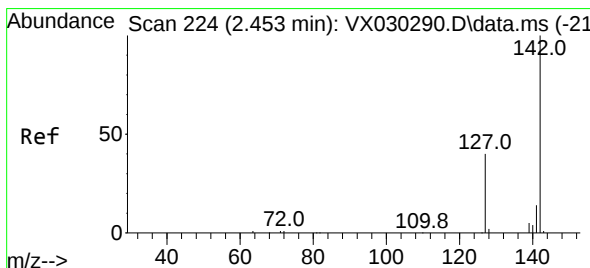
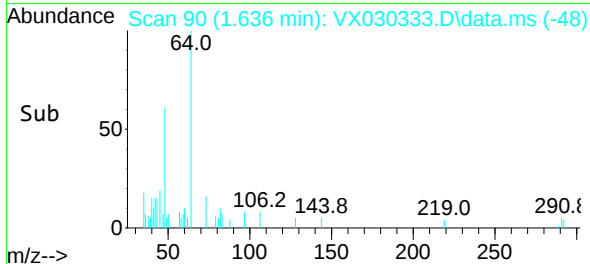
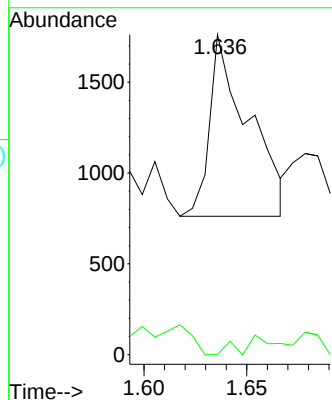
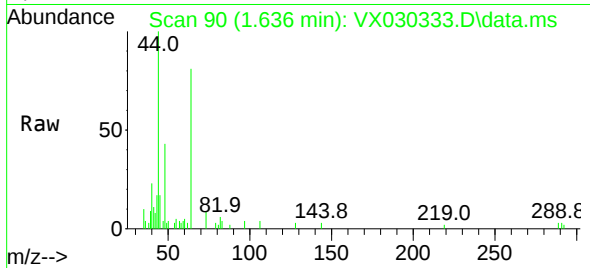




#6  
Chloroethane  
Concen: 1.046 ug/l  
RT: 1.636 min Scan# 90  
Delta R.T. -0.042 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

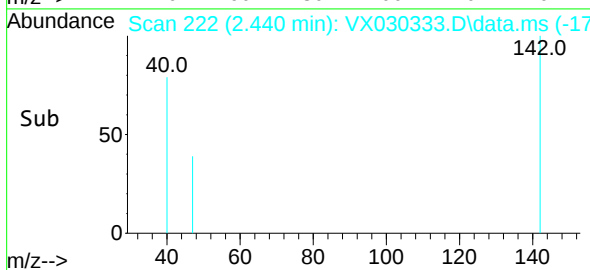
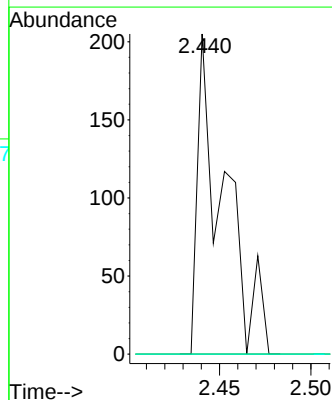
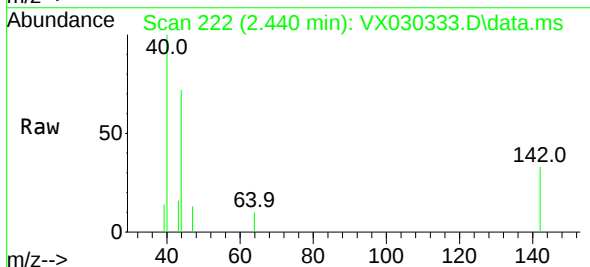
Instrument :  
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ClientSampleId :  
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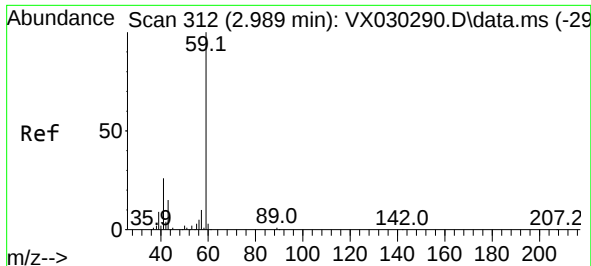
Tgt Ion: 64 Resp: 1315  
Ion Ratio Lower Upper  
64 100  
66 0.0 27.2 40.8#



#10  
Methyl Iodide  
Concen: 1.621 ug/l  
RT: 2.440 min Scan# 222  
Delta R.T. -0.006 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

Tgt Ion: 142 Resp: 207  
Ion Ratio Lower Upper  
142 100  
127 0.0 30.2 45.2#  
141 0.0 11.3 16.9#

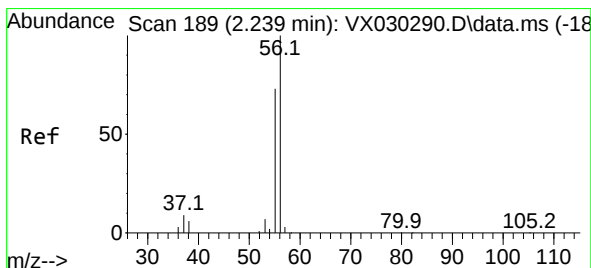
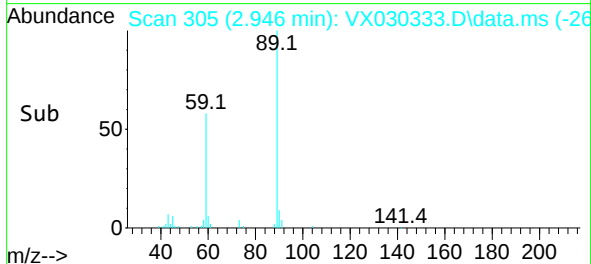
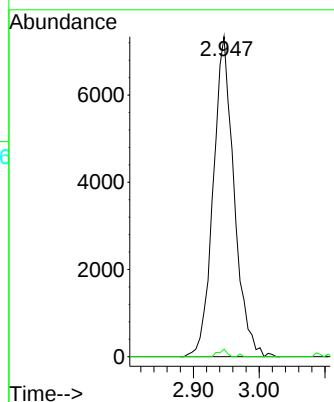
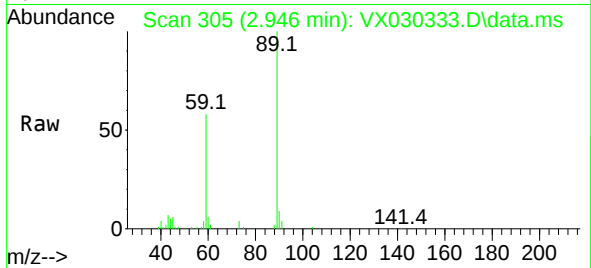




#11  
Tert butyl alcohol  
Concen: 24.780 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. -0.030 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

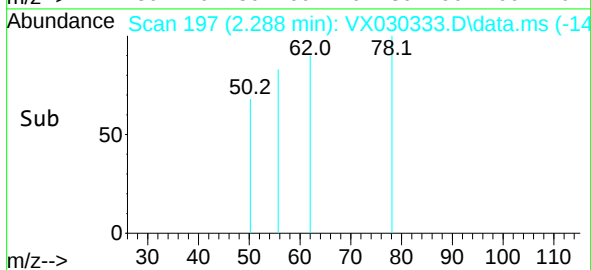
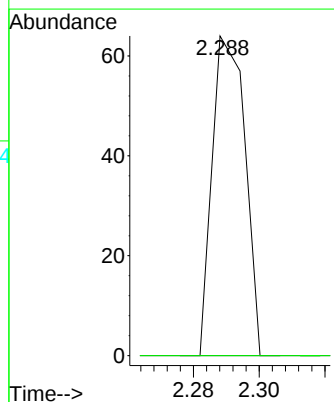
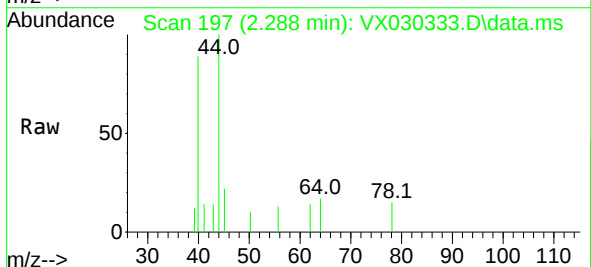
Instrument :  
MSVOA\_X  
ClientSampleId :  
HMGP-SOIL-C

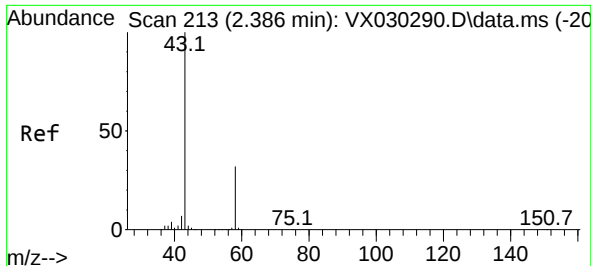
Tgt Ion: 59 Resp: 16238  
Ion Ratio Lower Upper  
59 100  
57 0.9 7.4 11.2#



#13  
Acrolein  
Concen: 0.273 ug/l  
RT: 2.288 min Scan# 197  
Delta R.T. 0.049 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

Tgt Ion: 56 Resp: 44  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.6 84.8#

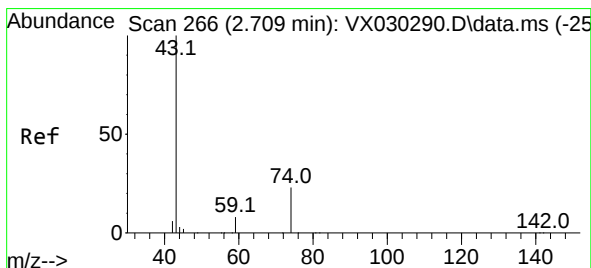
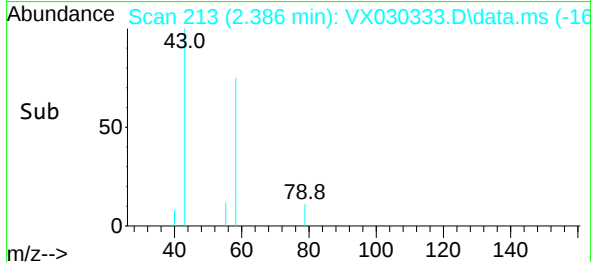
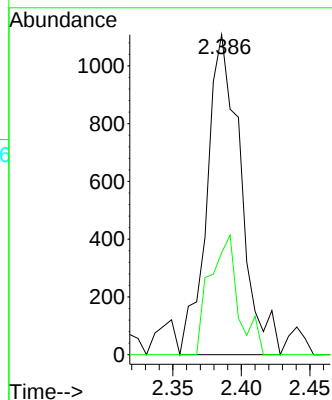
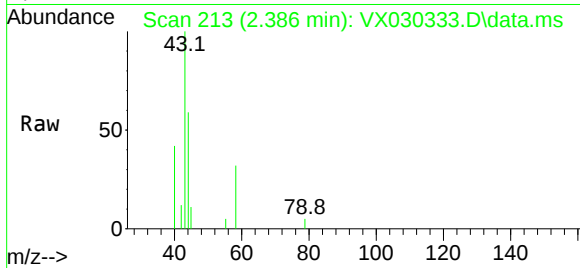




#16  
Acetone  
Concen: 1.379 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. 0.001 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

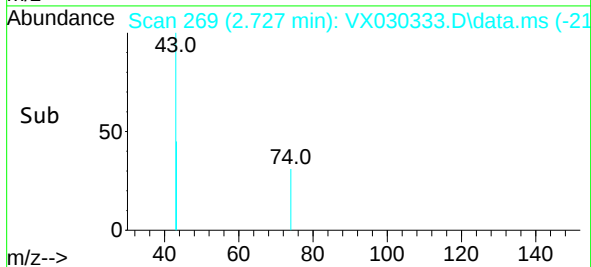
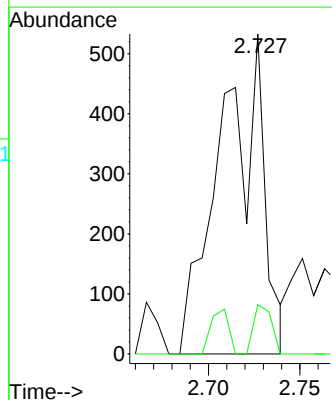
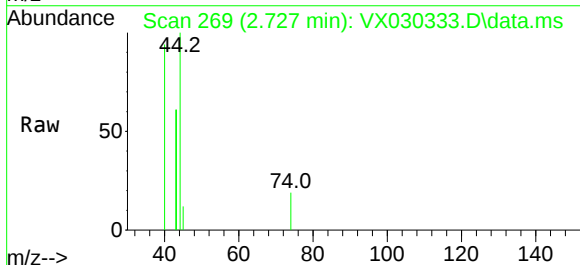
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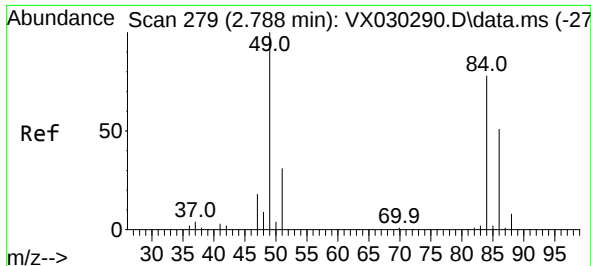
Tgt Ion: 43 Resp: 1897  
Ion Ratio Lower Upper  
43 100  
58 31.9 27.7 41.5



#18  
Methyl Acetate  
Concen: 0.216 ug/l  
RT: 2.727 min Scan# 269  
Delta R.T. 0.019 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

Tgt Ion: 43 Resp: 879  
Ion Ratio Lower Upper  
43 100  
74 6.4 19.4 29.2#





#20

Methylene Chloride

Concen: Below Cal

RT: 2.788 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX030333.D

Acq: 01 Aug 2022 19:25

Instrument :

MSVOA\_X

ClientSampleId :

HMGP-SOIL-C

Tgt Ion: 84 Resp: 2340

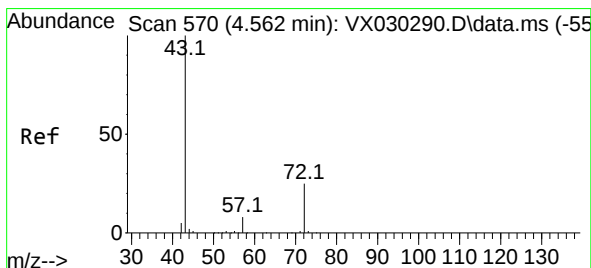
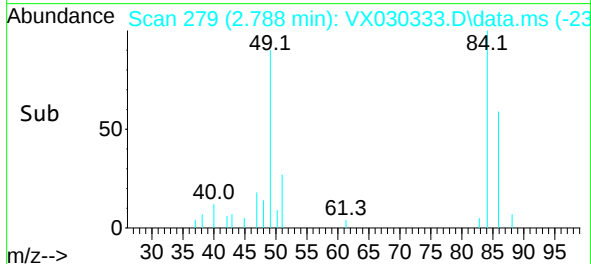
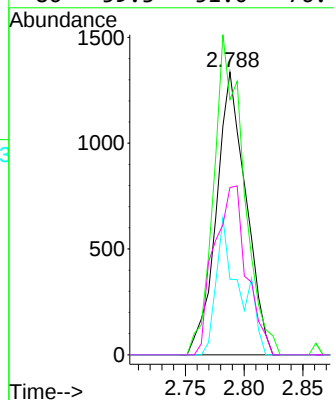
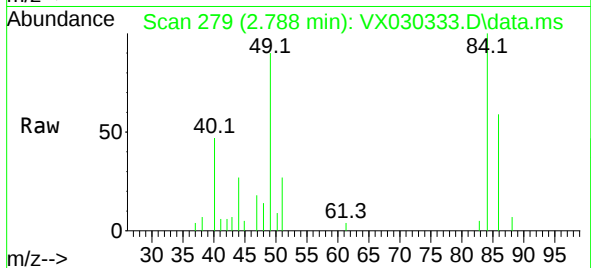
Ion Ratio Lower Upper

84 100

49 90.3 93.8 140.6#

51 26.7 29.4 44.0#

86 59.3 51.0 76.4



#25

2-Butanone

Concen: 1.581 ug/l

RT: 4.580 min Scan# 573

Delta R.T. 0.012 min

Lab File: VX030333.D

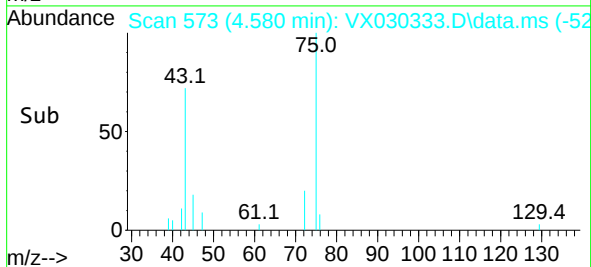
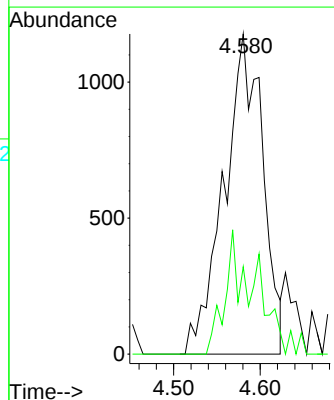
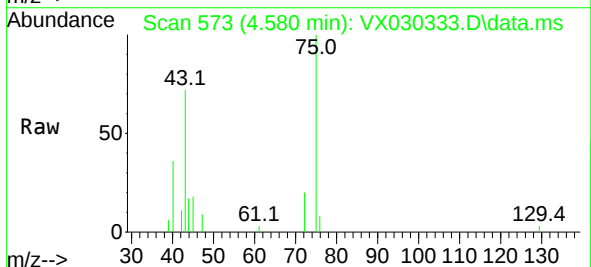
Acq: 01 Aug 2022 19:25

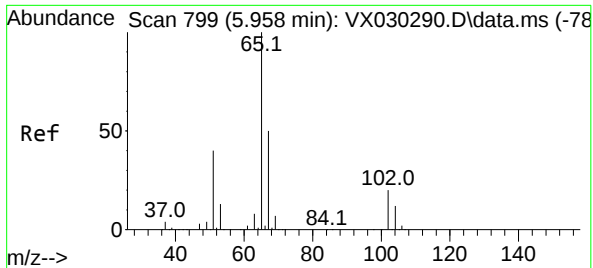
Tgt Ion: 43 Resp: 3654

Ion Ratio Lower Upper

43 100

72 27.3 21.7 32.5





#33

1,2-Dichloroethane-d4

Concen: 51.442 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.006 min

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ClientSampleId :

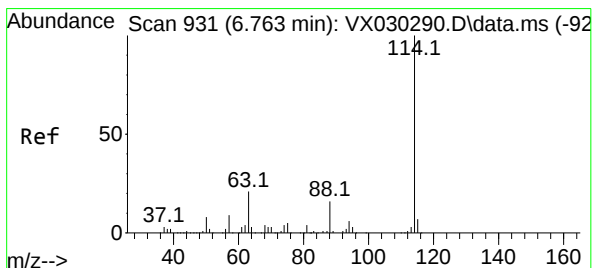
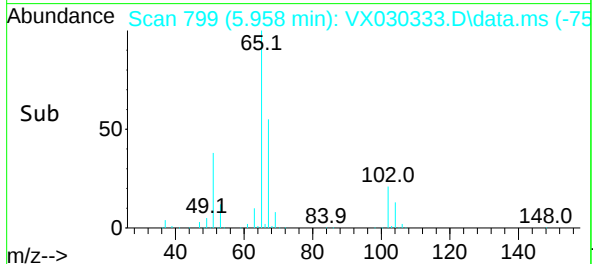
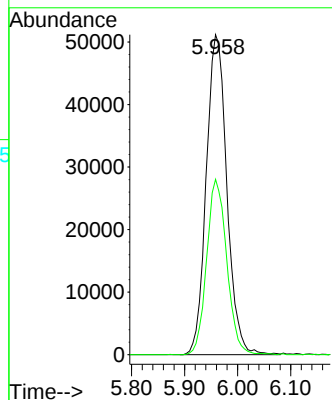
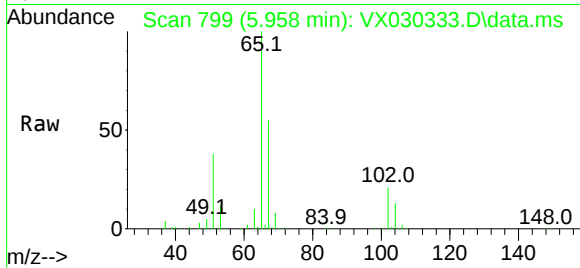
HMGP-SOIL-C

Tgt Ion: 65 Resp: 138193

Ion Ratio Lower Upper

65 100

67 53.5 0.0 109.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.006 min

Lab File: VX030333.D

Acq: 01 Aug 2022 19:25

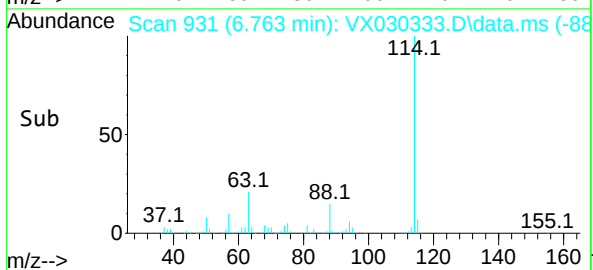
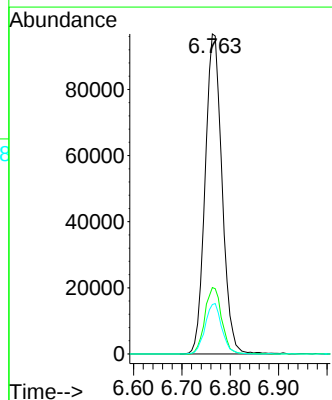
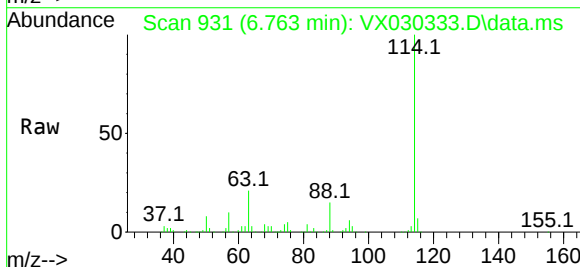
Tgt Ion: 114 Resp: 234977

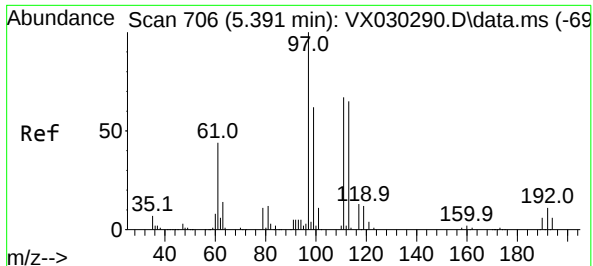
Ion Ratio Lower Upper

114 100

63 20.7 0.0 38.4

88 15.5 0.0 31.8





#35

Dibromofluoromethane

Concen: 48.072 ug/l

RT: 5.385 min Scan# 706

Delta R.T. -0.006 min

Lab File: VX030333.D

Acq: 01 Aug 2022 19:25

Instrument :

MSVOA\_X

ClientSampleId :

HMGP-SOIL-C

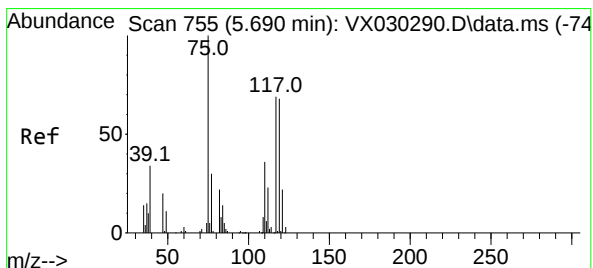
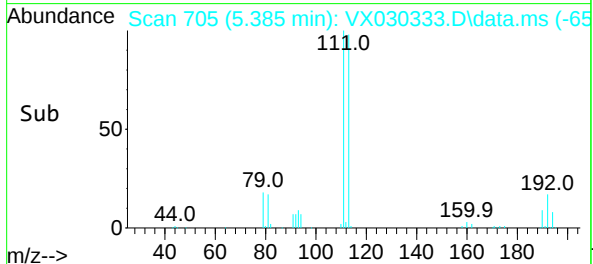
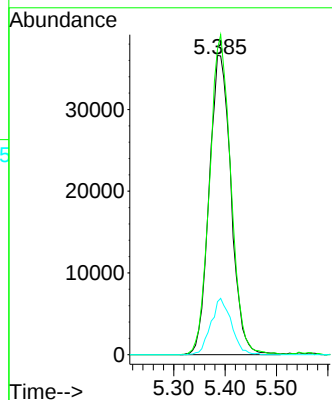
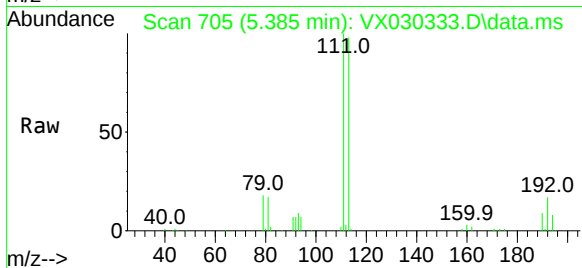
Tgt Ion:113 Resp: 107982

Ion Ratio Lower Upper

113 100

111 104.5 83.2 124.8

192 17.7 14.8 22.2



#36

1,1-Dichloropropene

Concen: 3.510 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.140 min

Lab File: VX030333.D

Acq: 01 Aug 2022 19:25

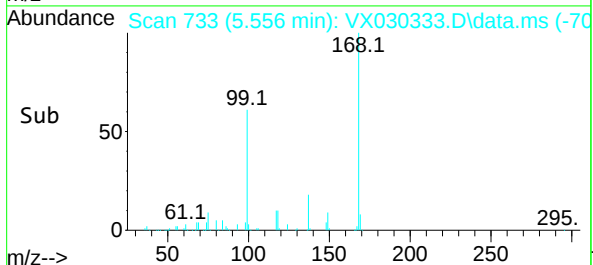
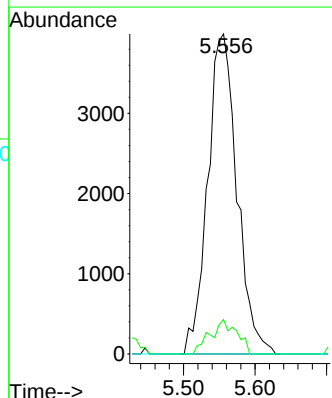
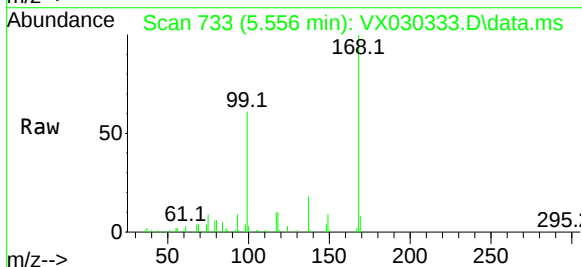
Tgt Ion: 75 Resp: 11347

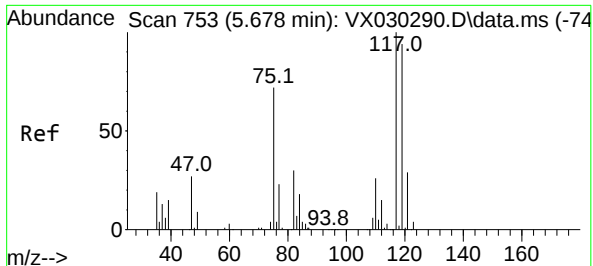
Ion Ratio Lower Upper

75 100

110 9.7 19.3 57.9#

77 0.0 24.4 36.6#

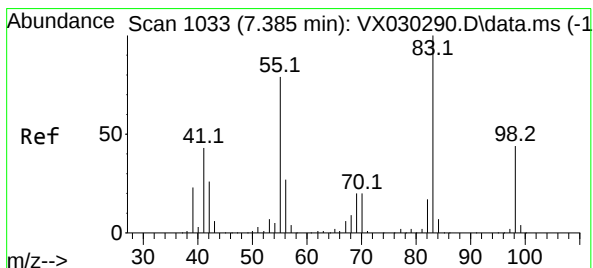
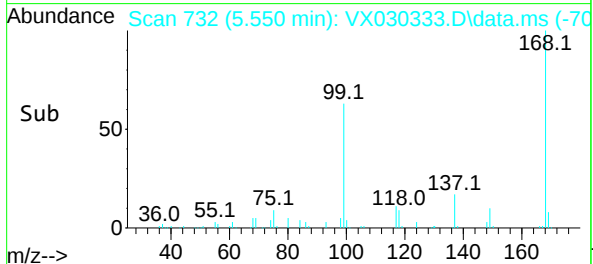
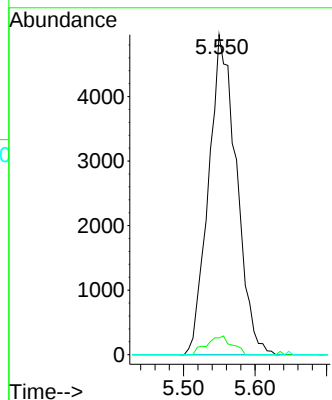
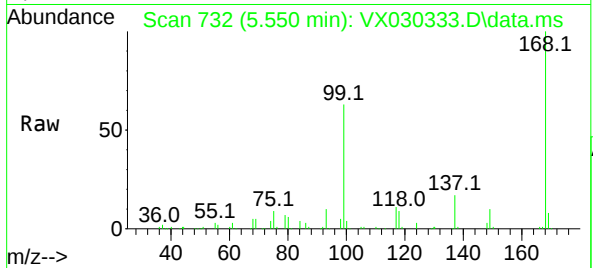




#38  
Carbon Tetrachloride  
Concen: 4.449 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.133 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

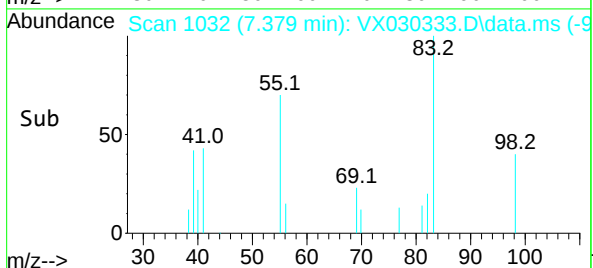
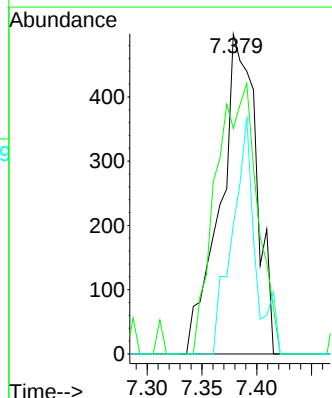
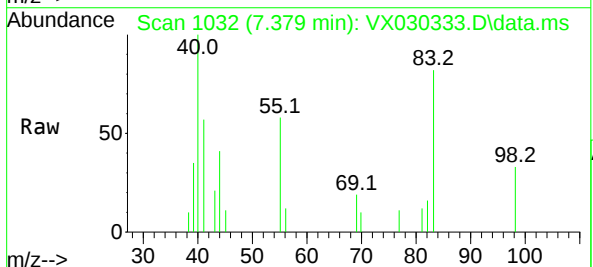
Instrument :  
MSVOA\_X  
ClientSampleId :  
HMGP-SOIL-C

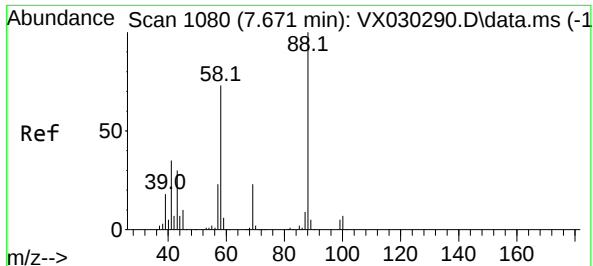
Tgt Ion:117 Resp: 13425  
Ion Ratio Lower Upper  
117 100  
119 5.3 74.1 111.1#  
121 0.0 25.8 38.8#



#39  
Methylcyclohexane  
Concen: 0.272 ug/l  
RT: 7.379 min Scan# 1032  
Delta R.T. -0.005 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

Tgt Ion: 83 Resp: 1134  
Ion Ratio Lower Upper  
83 100  
55 70.5 57.7 86.5  
98 40.4 36.5 54.7





#49

1,4-Dioxane

Concen: 0.446 ug/l

RT: 7.903 min Scan# 1118

Delta R.T. 0.238 min

Lab File: VX030333.D

Acq: 01 Aug 2022 19:25

Instrument :

MSVOA\_X

ClientSampleId :

HMGP-SOIL-C

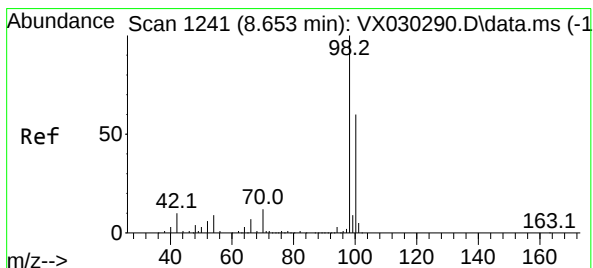
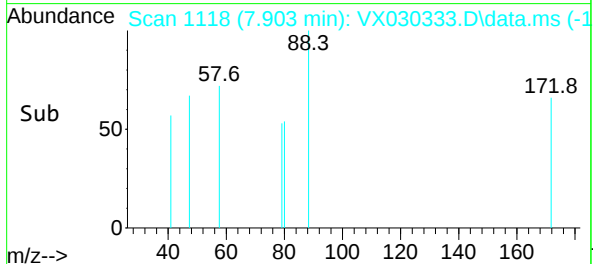
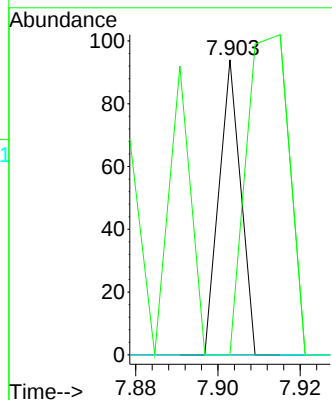
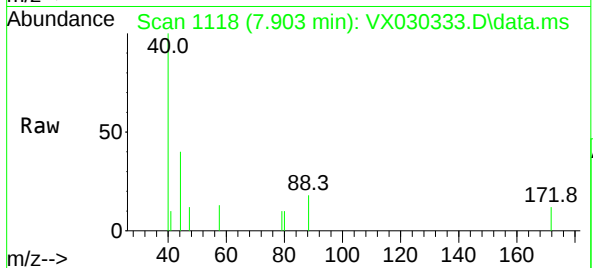
Tgt Ion: 88 Resp: 34

Ion Ratio Lower Upper

88 100

43 217.6 23.8 35.8#

58 0.0 53.8 80.6#



#50

Toluene-d8

Concen: 47.861 ug/l

RT: 8.653 min Scan# 1241

Delta R.T. 0.001 min

Lab File: VX030333.D

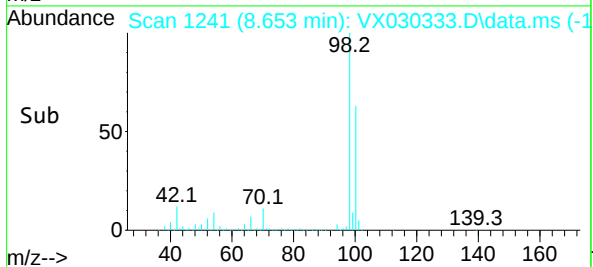
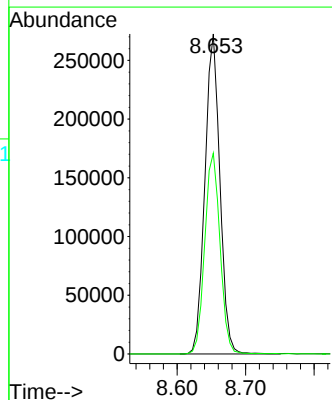
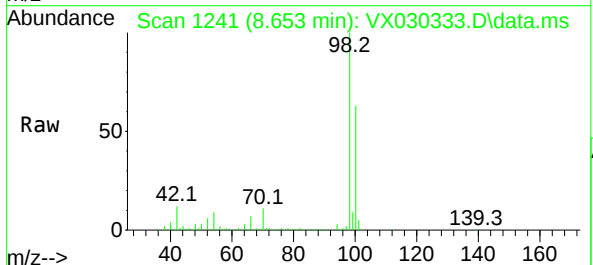
Acq: 01 Aug 2022 19:25

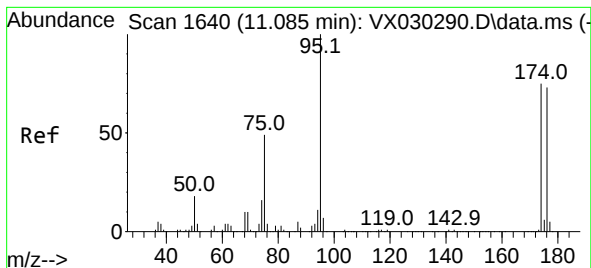
Tgt Ion: 98 Resp: 416340

Ion Ratio Lower Upper

98 100

100 63.9 52.3 78.5

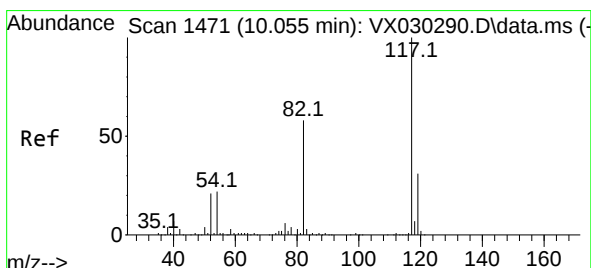
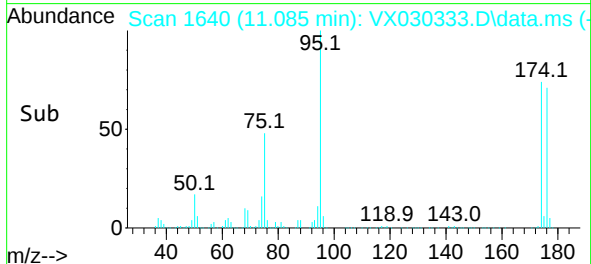
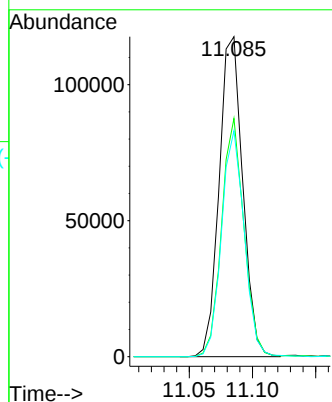
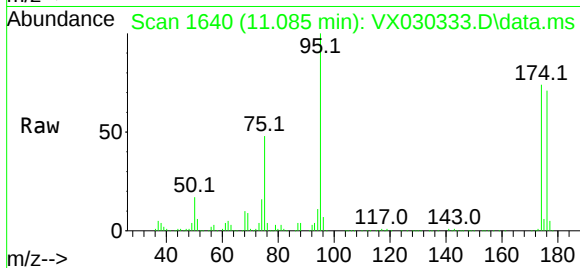




#62  
4-Bromofluorobenzene  
Concen: 47.199 ug/l  
RT: 11.085 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

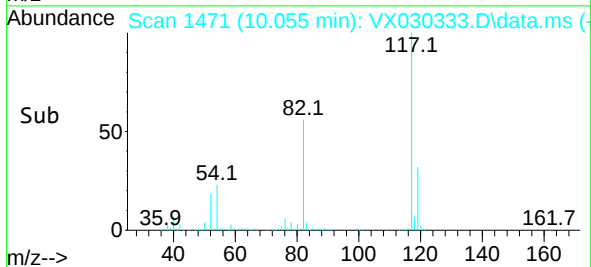
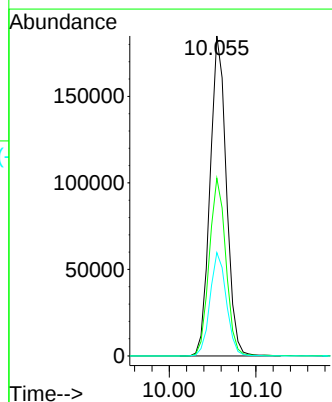
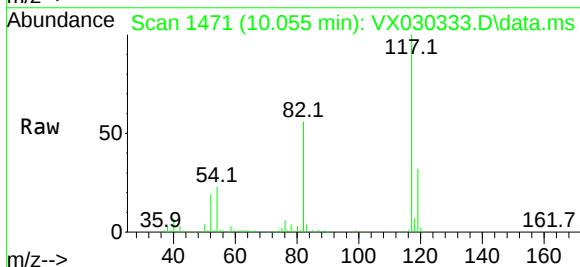
Instrument :  
MSVOA\_X  
ClientSampleId :  
HMGP-SOIL-C

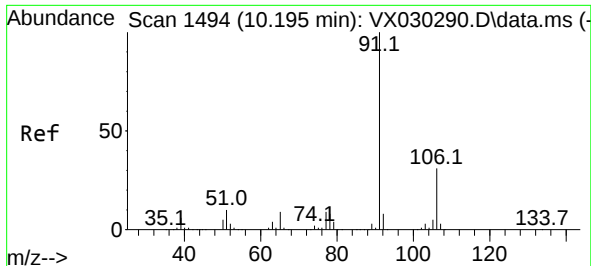
Tgt Ion: 95 Resp: 152378  
Ion Ratio Lower Upper  
95 100  
174 70.8 0.0 149.0  
176 67.9 0.0 146.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

Tgt Ion: 117 Resp: 241732  
Ion Ratio Lower Upper  
117 100  
82 55.6 42.7 64.1  
119 32.3 25.4 38.2

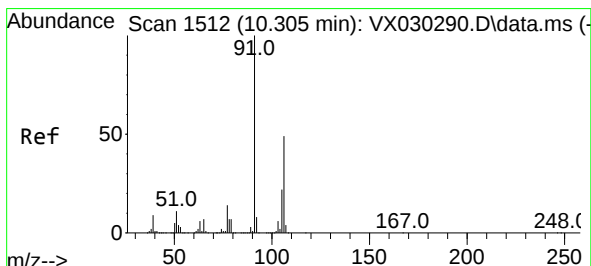
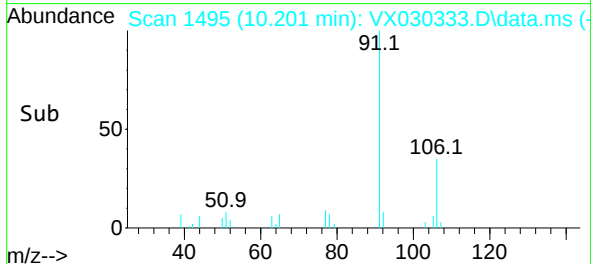
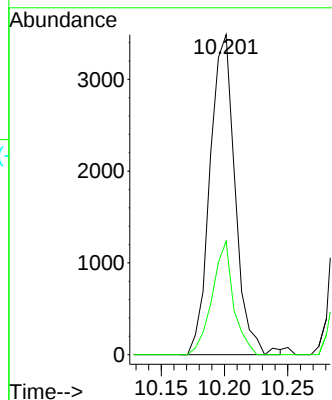
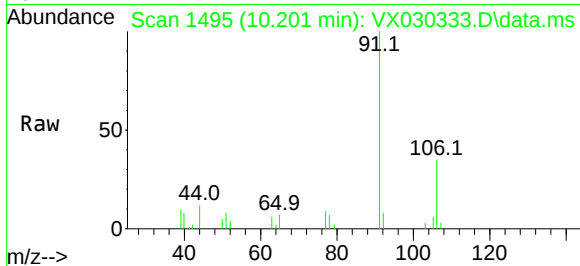




#67  
Ethyl Benzene  
Concen: Below Cal  
RT: 10.201 min Scan# 1495  
Delta R.T. 0.006 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

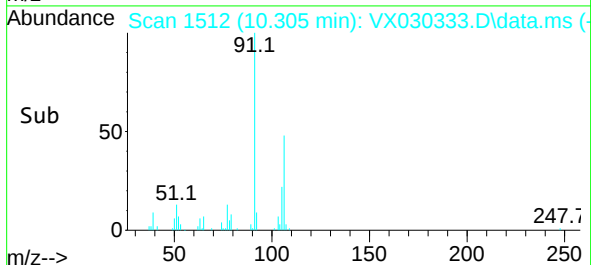
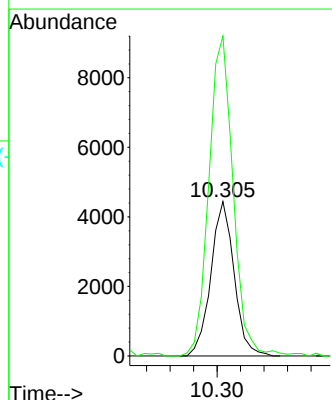
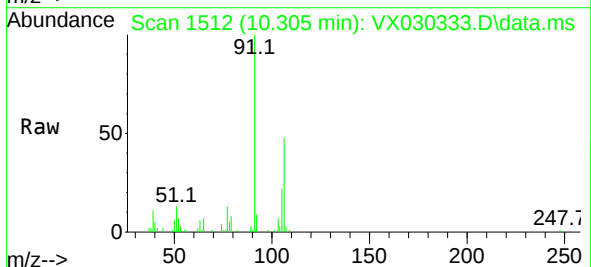
Instrument :  
MSVOA\_X  
ClientSampleId :  
HMGP-SOIL-C

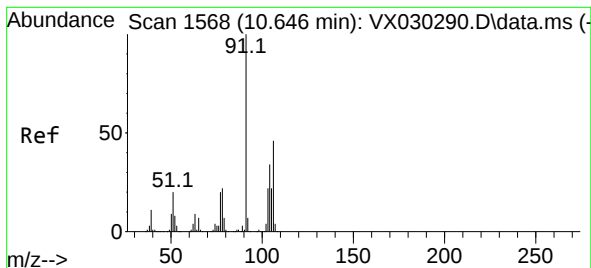
Tgt Ion: 91 Resp: 4803  
Ion Ratio Lower Upper  
91 100  
106 35.4 25.5 38.3



#68  
m/p-Xylenes  
Concen: 1.374 ug/l  
RT: 10.305 min Scan# 1512  
Delta R.T. -0.000 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

Tgt Ion: 106 Resp: 6110  
Ion Ratio Lower Upper  
106 100  
91 216.0 158.2 237.4





#69

o-Xylene

Concen: 0.429 ug/l

RT: 10.646 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX030333.D

Acq: 01 Aug 2022 19:25

Instrument :

MSVOA\_X

ClientSampleId :

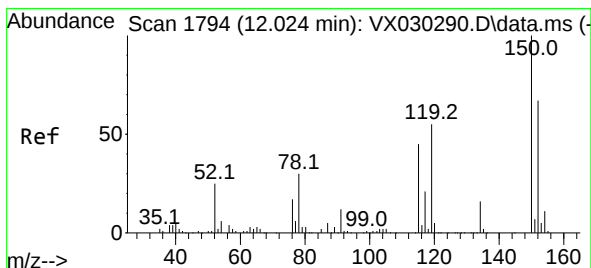
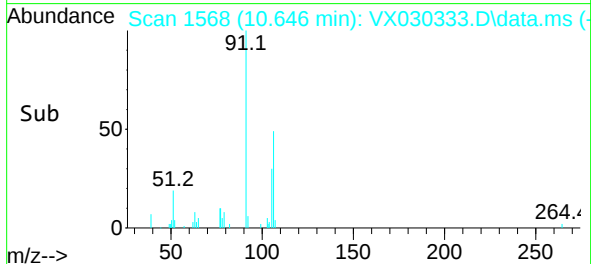
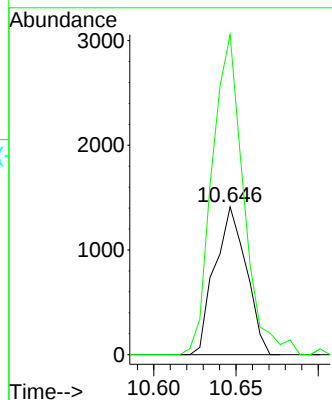
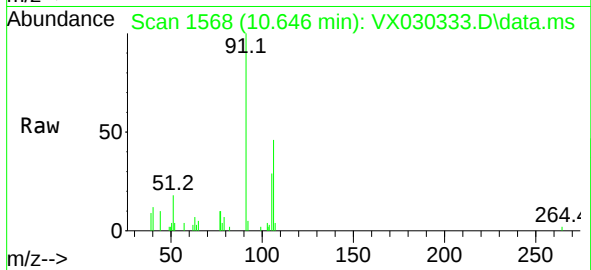
HMGP-SOIL-C

Tgt Ion:106 Resp: 1880

Ion Ratio Lower Upper

106 100

91 216.5 103.8 311.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX030333.D

Acq: 01 Aug 2022 19:25

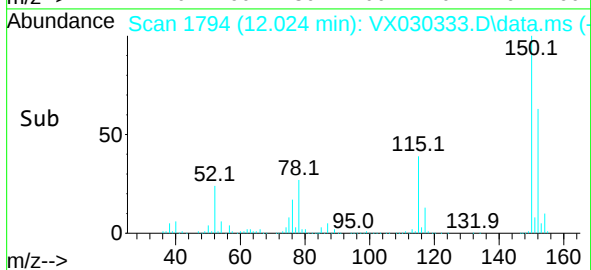
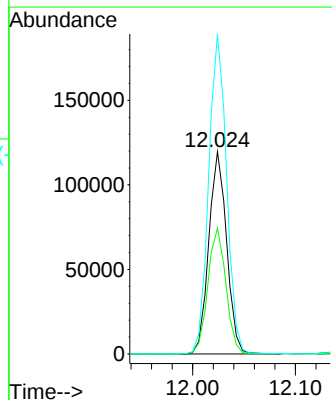
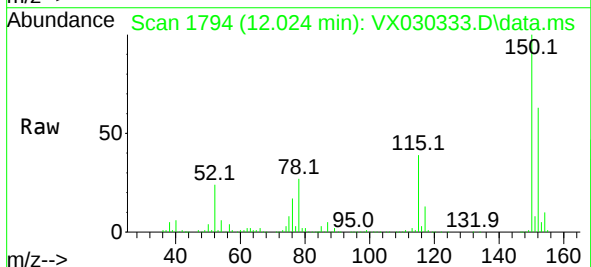
Tgt Ion:152 Resp: 144880

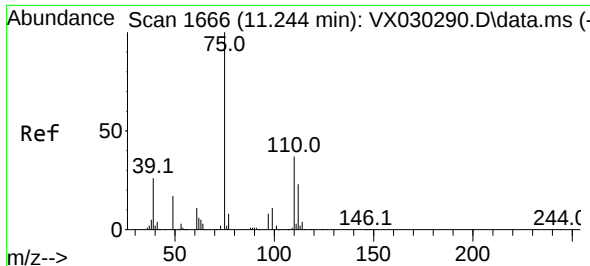
Ion Ratio Lower Upper

152 100

115 62.7 40.5 121.5

150 158.3 0.0 347.0

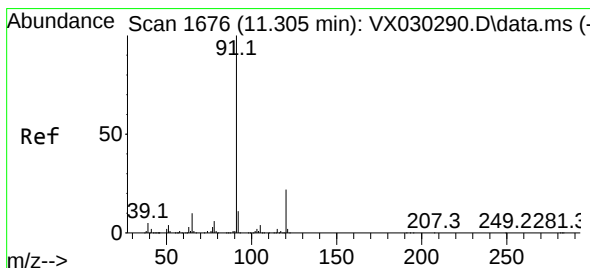
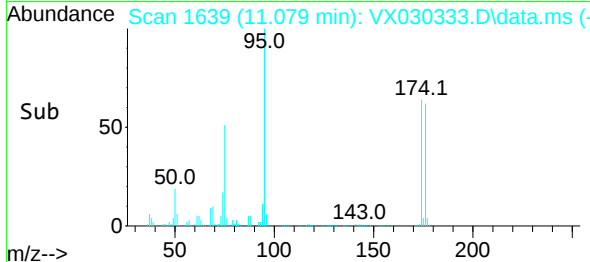
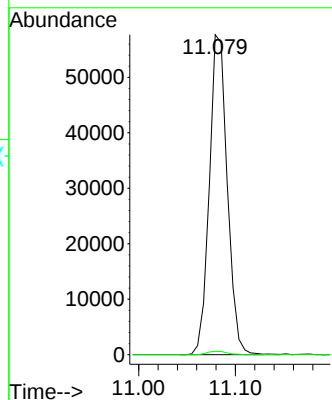
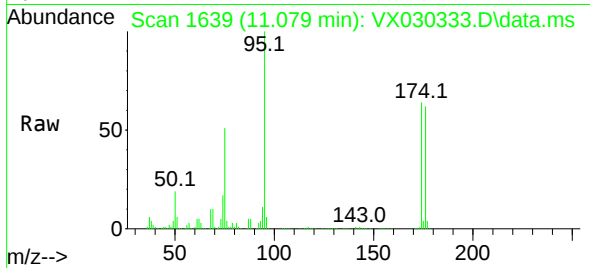




#76  
1,2,3-Trichloropropane  
Concen: 19.531 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.164 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

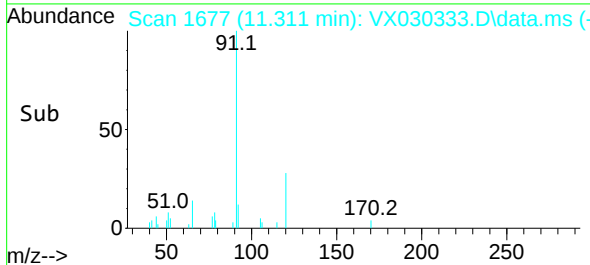
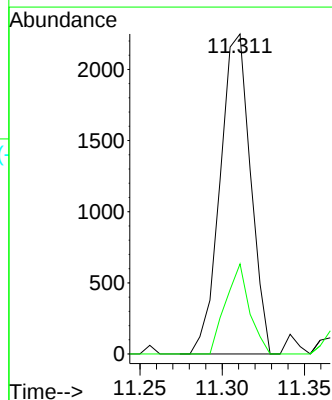
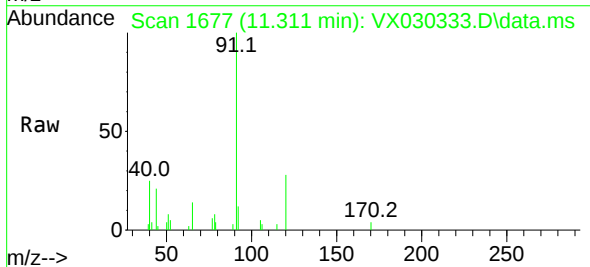
Instrument :  
MSVOA\_X  
ClientSampleId :  
HMGP-SOIL-C

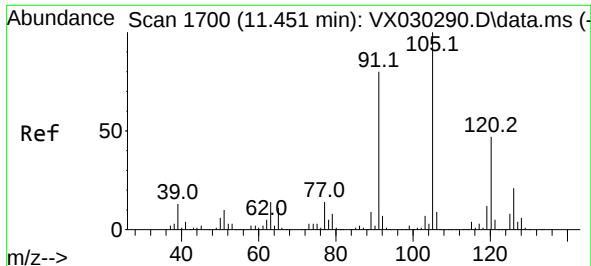
Tgt Ion: 75 Resp: 74590  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.8 59.3#



#78  
n-propylbenzene  
Concen: 0.214 ug/l  
RT: 11.311 min Scan# 1677  
Delta R.T. 0.001 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

Tgt Ion: 91 Resp: 2894  
Ion Ratio Lower Upper  
91 100  
120 22.0 11.6 34.8

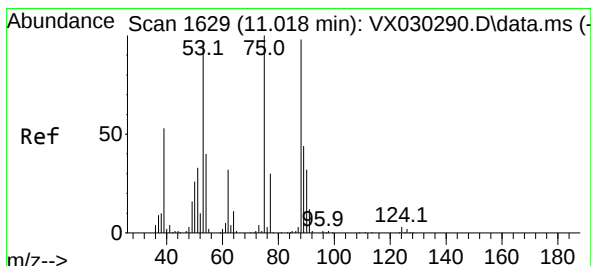
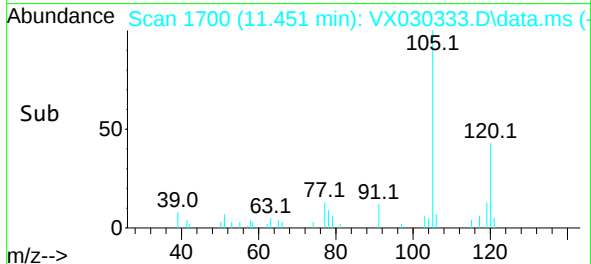
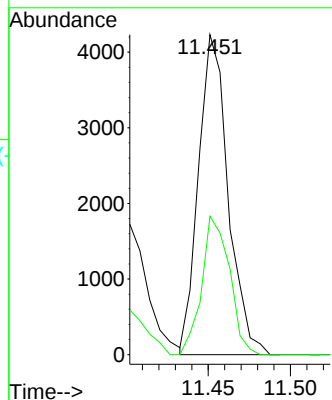
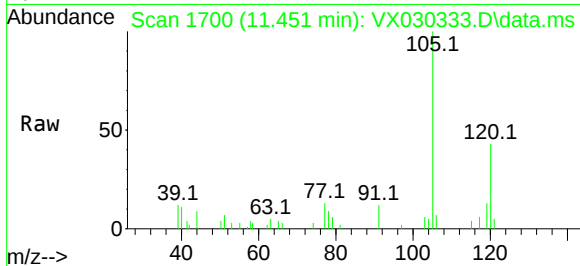




#80  
1,3,5-Trimethylbenzene  
Concen: 0.560 ug/l  
RT: 11.451 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

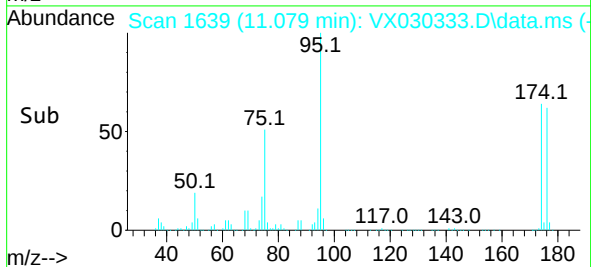
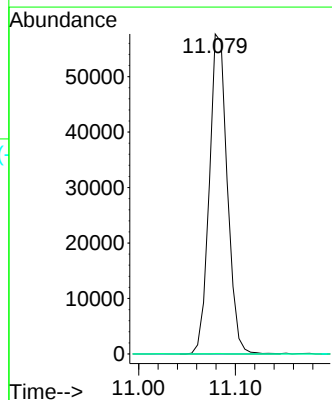
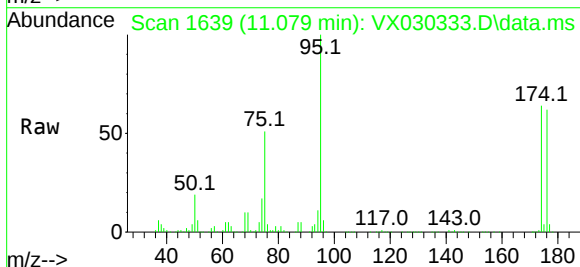
Instrument :  
MSVOA\_X  
ClientSampleId :  
HMGP-SOIL-C

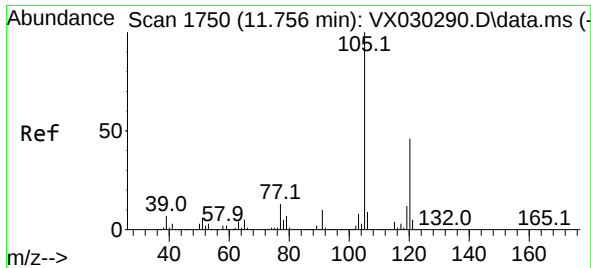
Tgt Ion:105 Resp: 5299  
Ion Ratio Lower Upper  
105 100  
120 40.5 24.4 73.2



#81  
trans-1,4-Dichloro-2-butene  
Concen: 58.593 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.055 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

Tgt Ion: 75 Resp: 74590  
Ion Ratio Lower Upper  
75 100  
53 0.1 74.2 111.4#  
89 0.0 34.8 52.2#

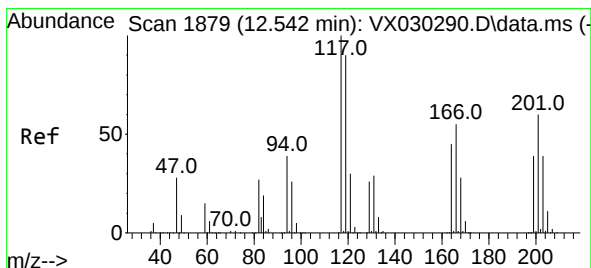
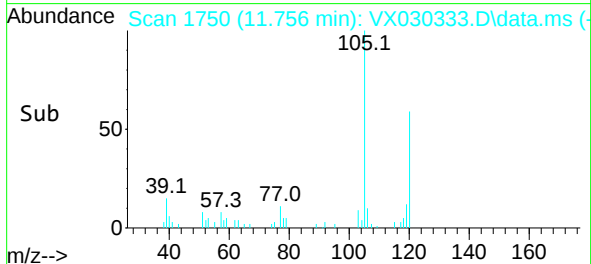
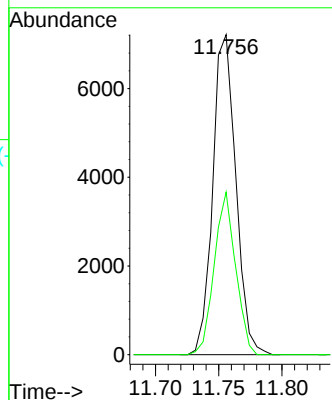
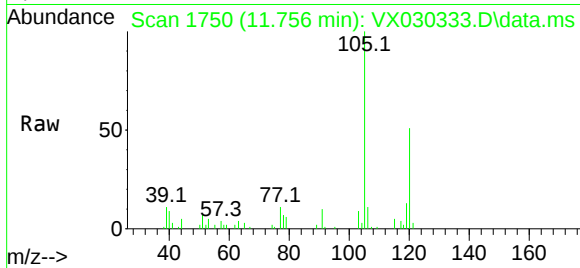




#84  
1,2,4-Trimethylbenzene  
Concen: 0.968 ug/l  
RT: 11.756 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

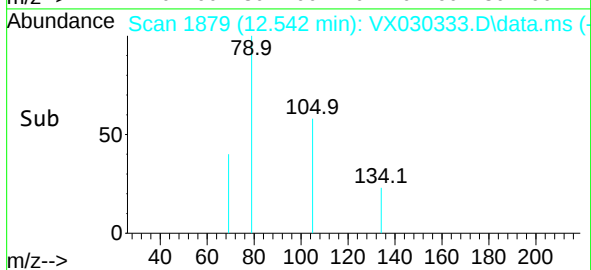
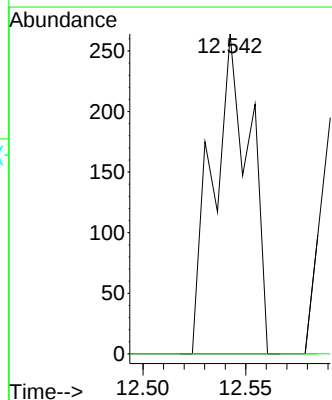
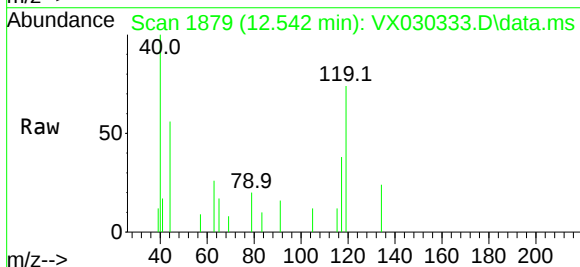
Instrument :  
MSVOA\_X  
ClientSampleId :  
HMGP-SOIL-C

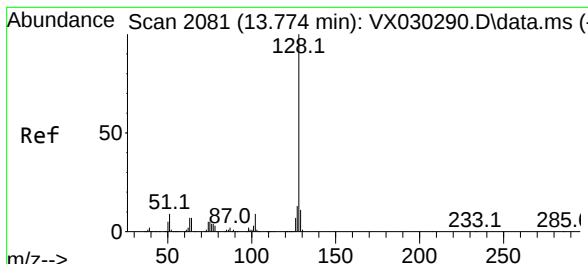
Tgt Ion:105 Resp: 9149  
Ion Ratio Lower Upper  
105 100  
120 47.0 22.9 68.8



#90  
Hexachloroethane  
Concen: 0.201 ug/l  
RT: 12.542 min Scan# 1879  
Delta R.T. 0.000 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

Tgt Ion:117 Resp: 332  
Ion Ratio Lower Upper  
117 100  
201 0.0 34.2 102.5#





#95  
Naphthalene  
Concen: 39.201 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. -0.000 min  
Lab File: VX030333.D  
Acq: 01 Aug 2022 19:25

Instrument :  
MSVOA\_X  
ClientSampleId :  
HMGP-SOIL-C

Tgt Ion:128 Resp: 449986  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.2 15.2  
129 11.1 8.6 13.0

