

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN120622\  
 Data File : VN075590.D  
 Acq On : 06 Dec 2022 17:26  
 Operator : JC\MD  
 Sample : N5876-04 50X  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 1 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 HILL-12-02-SIL

Quant Time: Dec 07 00:17:18 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 23 00:18:03 2022  
 Response via : Initial Calibration

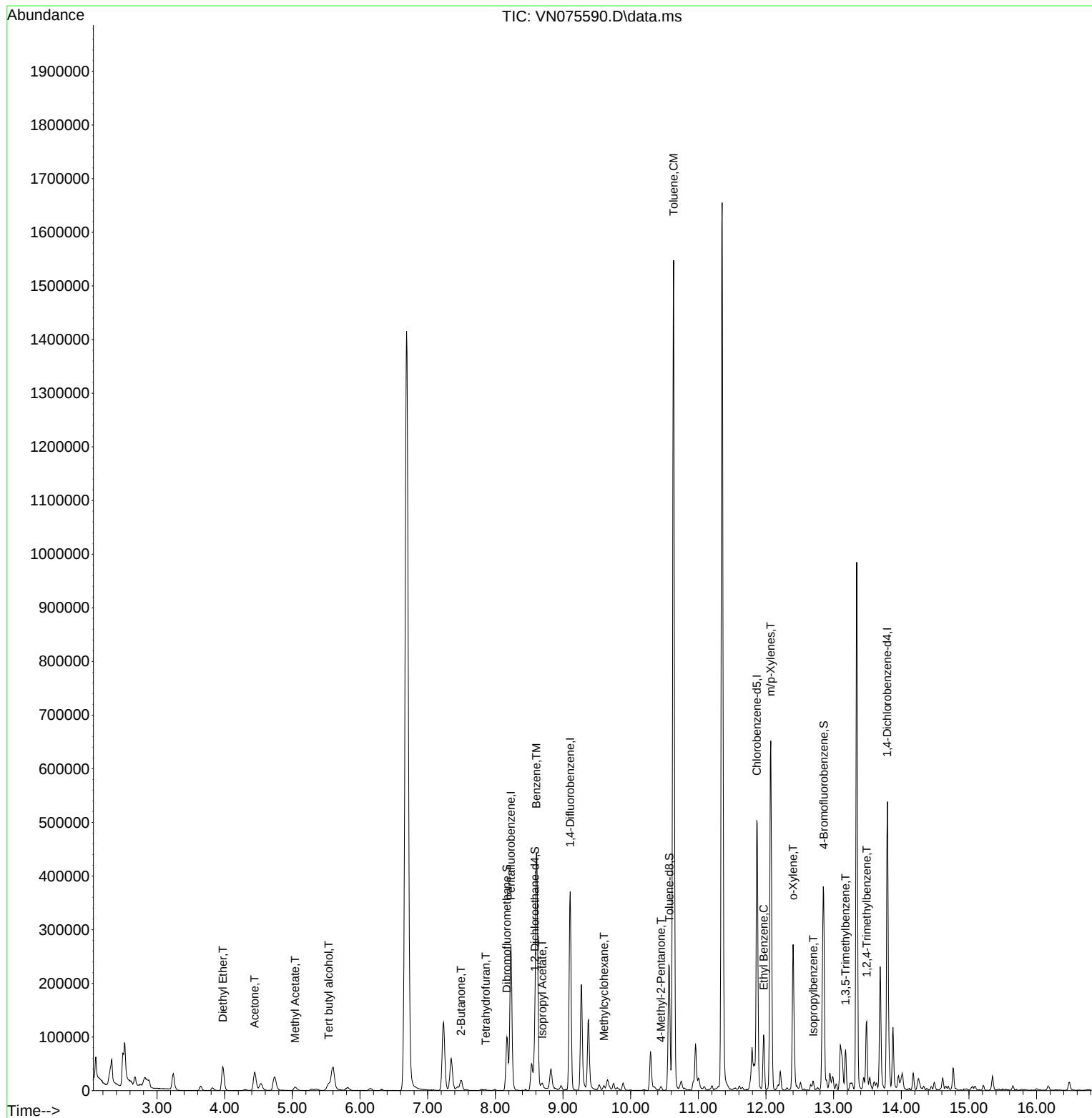
| Compound                    | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|------------|----------|
| -----                       |        |       |          |          |            |          |
| Internal Standards          |        |       |          |          |            |          |
| 1) Pentafluorobenzene       | 8.230  | 168   | 211196   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 9.106  | 114   | 346010   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 11.865 | 117   | 313426   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.794 | 152   | 149307   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 8.583  | 65    | 56921    | 50.209   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 74 - 125 | Recovery | = 100.420% |          |
| 35) Dibromofluoromethane    | 8.171  | 113   | 70660    | 51.985   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | = 103.960% |          |
| 50) Toluene-d8              | 10.571 | 98    | 154303   | 50.403   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 86 - 113 | Recovery | = 100.800% |          |
| 62) 4-Bromofluorobenzene    | 12.853 | 95    | 116521   | 51.566   | ug/l       | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | = 103.140% |          |
| Target Compounds            |        |       |          |          |            |          |
|                             |        |       |          |          | Qvalue     |          |
| 8) Diethyl Ether            | 3.971  | 74    | 30740    | 24.242   | ug/l       | 99       |
| 11) Tert butyl alcohol      | 5.536  | 59    | 29574    | 62.143   | ug/l #     | 88       |
| 16) Acetone                 | 4.442  | 43    | 60997    | 57.684   | ug/l       | 100      |
| 18) Methyl Acetate          | 5.042  | 43    | 13594    | 3.905    | ug/l       | 99       |
| 25) 2-Butanone              | 7.494  | 43    | 30489    | 20.652   | ug/l       | 92       |
| 29) Tetrahydrofuran         | 7.859  | 42    | 1198     | 1.334    | ug/l #     | 76       |
| 39) Methylcyclohexane       | 9.606  | 83    | 3970     | 1.070    | ug/l       | 90       |
| 40) Benzene                 | 8.606  | 78    | 475621   | 52.407   | ug/l       | 97       |
| 43) Isopropyl Acetate       | 8.694  | 43    | 14117    | 3.295    | ug/l       | 98       |
| 51) 4-Methyl-2-Pentanone    | 10.447 | 43    | 5581     | 2.045    | ug/l       | 95       |
| 52) Toluene                 | 10.635 | 92    | 720172   | 123.142  | ug/l       | 99       |
| 67) Ethyl Benzene           | 11.965 | 91    | 77166    | 6.988    | ug/l       | 96       |
| 68) m/p-Xylenes             | 12.071 | 106   | 221994   | 49.504   | ug/l       | 100      |
| 69) o-Xylene                | 12.400 | 106   | 77841    | 17.471   | ug/l       | 96       |
| 73) Isopropylbenzene        | 12.700 | 105   | 12219    | 1.120    | ug/l       | 97       |
| 80) 1,3,5-Trimethylbenzene  | 13.176 | 105   | 41471    | 4.576    | ug/l       | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.488 | 105   | 74044    | 8.145    | ug/l       | 97       |
| -----                       |        |       |          |          |            |          |

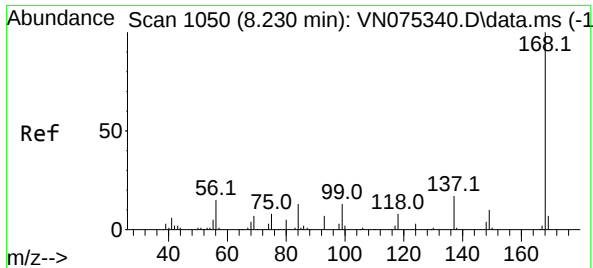
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_N  
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HILL-12-02-SIL

Quant Time: Dec 07 00:17:18 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N112122W.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 23 00:18:03 2022  
Response via : Initial Calibration

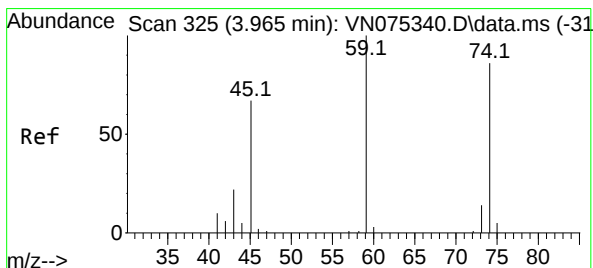
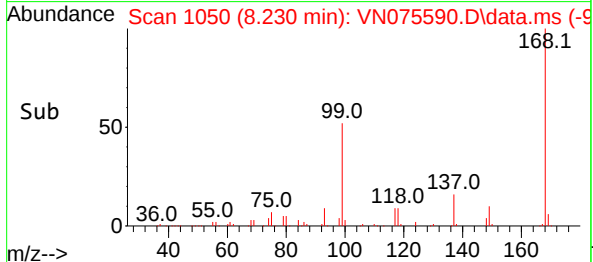
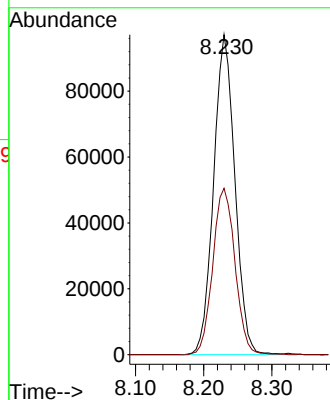
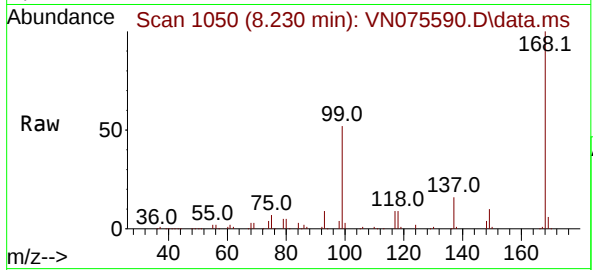




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.230 min Scan# 1050  
Delta R.T. -0.000 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

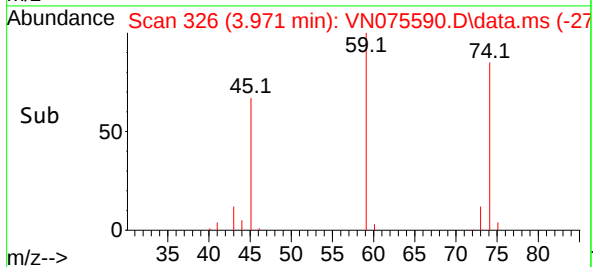
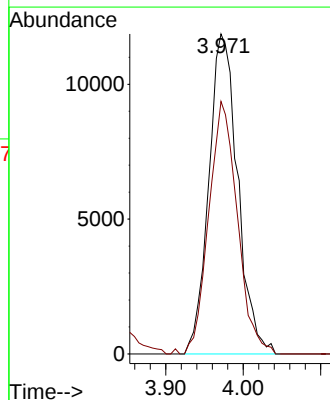
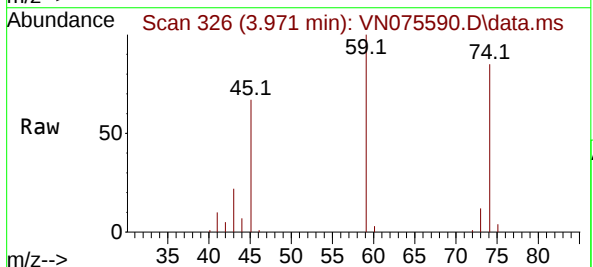
Instrument :  
MSVOA\_N  
ClientSampleId :  
HILL-12-02-SIL

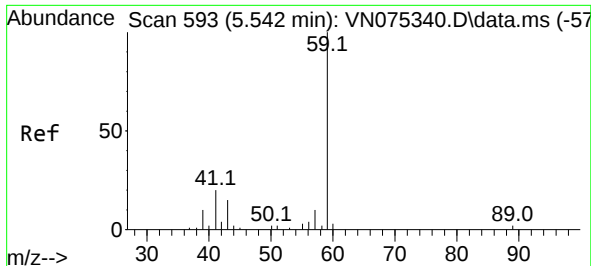
Tgt Ion:168 Resp: 211196  
Ion Ratio Lower Upper  
168 100  
99 52.0 51.6 77.4



#8  
Diethyl Ether  
Concen: 24.242 ug/l  
RT: 3.971 min Scan# 326  
Delta R.T. 0.006 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

Tgt Ion: 74 Resp: 30740  
Ion Ratio Lower Upper  
74 100  
45 77.9 39.3 117.9

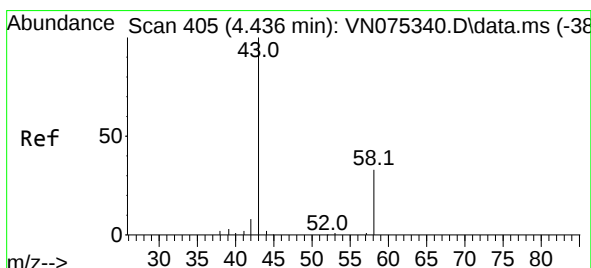
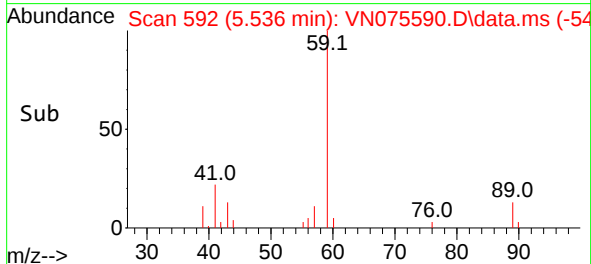
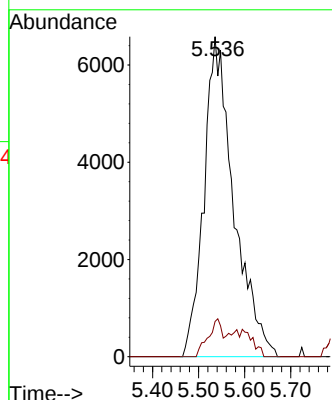
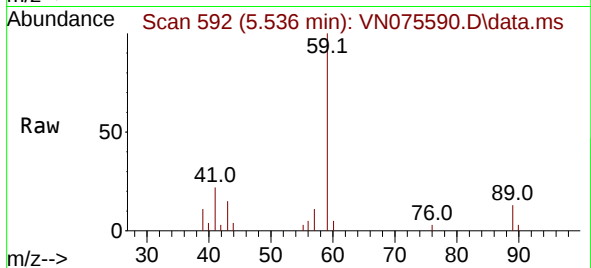




#11  
Tert butyl alcohol  
Concen: 62.143 ug/l  
RT: 5.536 min Scan# 591  
Delta R.T. -0.006 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

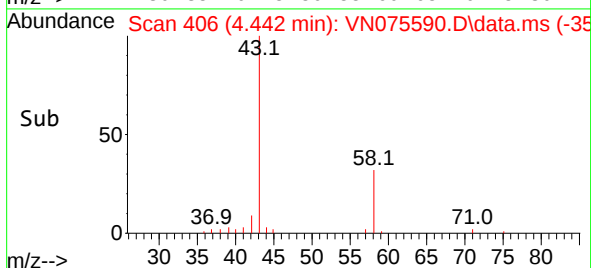
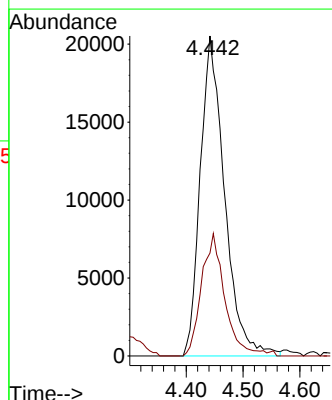
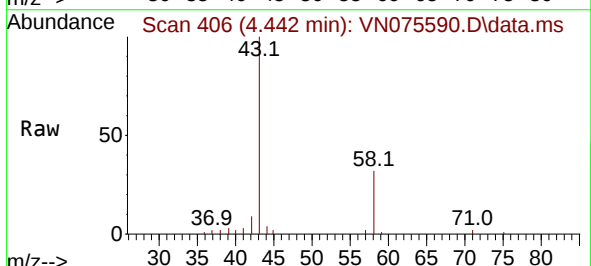
Instrument :  
MSVOA\_N  
ClientSampleId :  
HILL-12-02-SIL

Tgt Ion: 59 Resp: 29574  
Ion Ratio Lower Upper  
59 100  
57 5.9 8.5 12.7#



#16  
Acetone  
Concen: 57.684 ug/l  
RT: 4.442 min Scan# 406  
Delta R.T. 0.006 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

Tgt Ion: 43 Resp: 60997  
Ion Ratio Lower Upper  
43 100  
58 32.1 25.5 38.3

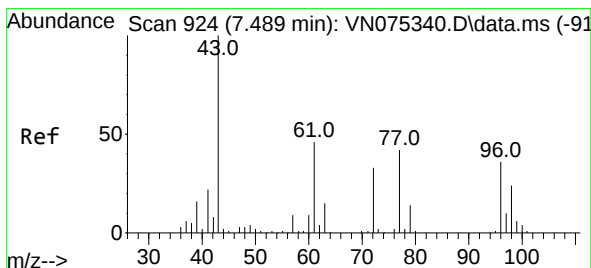
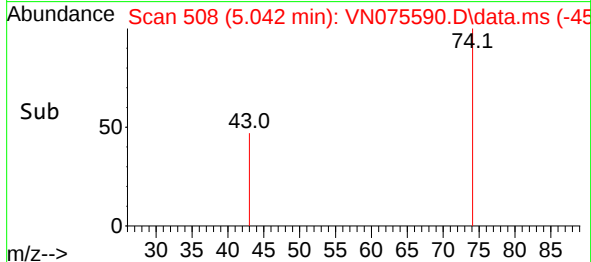
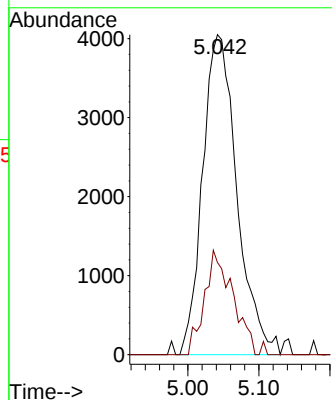
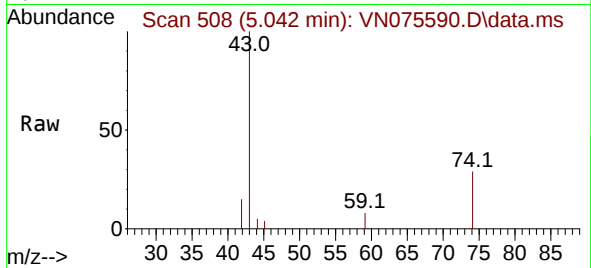




#18  
Methyl Acetate  
Concen: 3.905 ug/l  
RT: 5.042 min Scan# 507  
Delta R.T. 0.006 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

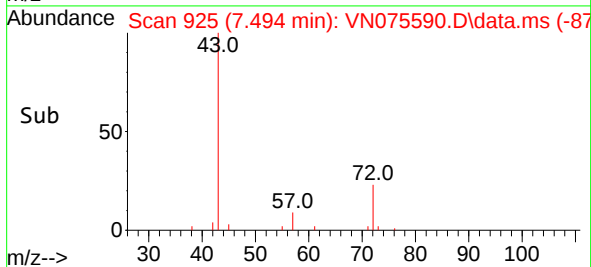
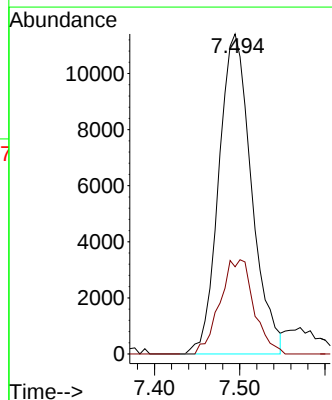
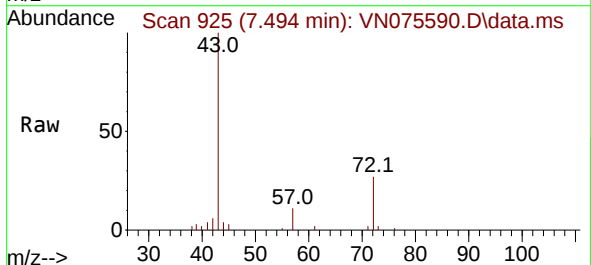
Instrument :  
MSVOA\_N  
ClientSampleId :  
HILL-12-02-SIL

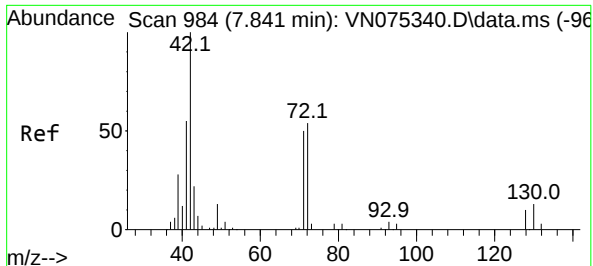
Tgt Ion: 43 Resp: 13594  
Ion Ratio Lower Upper  
43 100  
74 26.8 22.0 33.0



#25  
2-Butanone  
Concen: 20.652 ug/l  
RT: 7.494 min Scan# 925  
Delta R.T. 0.005 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

Tgt Ion: 43 Resp: 30489  
Ion Ratio Lower Upper  
43 100  
72 27.3 25.5 38.3





#29

Tetrahydrofuran

Concen: 1.334 ug/l

RT: 7.859 min Scan# 91

Delta R.T. 0.018 min

Lab File: VN075590.D

Acq: 06 Dec 2022 17:26

Instrument :

MSVOA\_N

ClientSampleId :

HILL-12-02-SIL

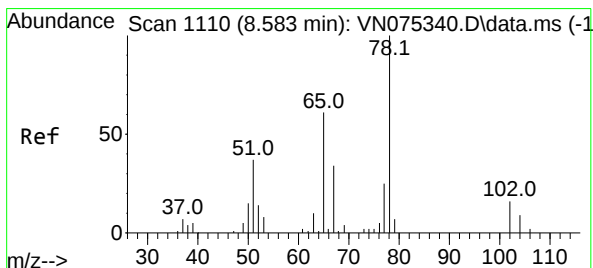
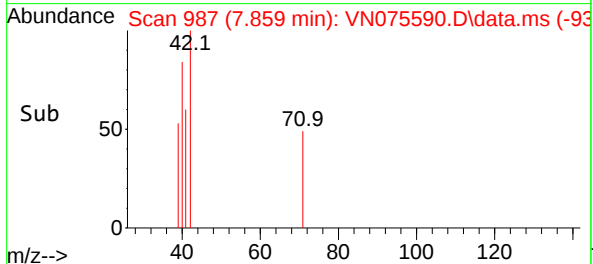
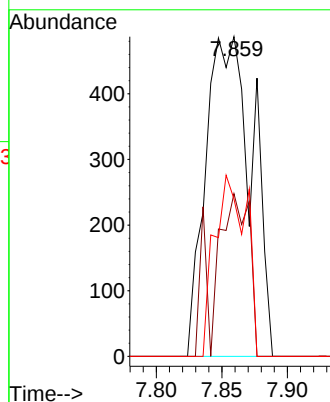
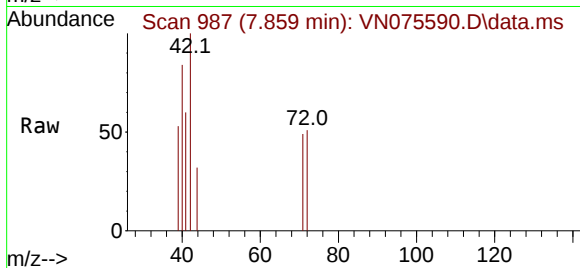
Tgt Ion: 42 Resp: 1198

Ion Ratio Lower Upper

42 100

72 31.6 43.0 64.6#

71 39.0 39.9 59.9#



#33

1,2-Dichloroethane-d4

Concen: 50.209 ug/l

RT: 8.583 min Scan# 1110

Delta R.T. -0.000 min

Lab File: VN075590.D

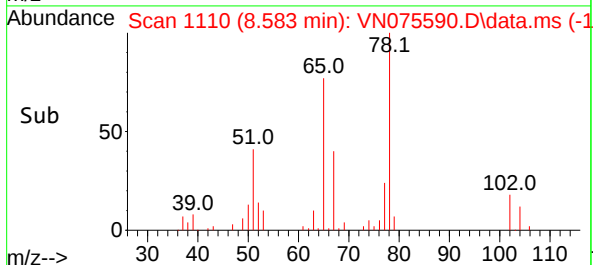
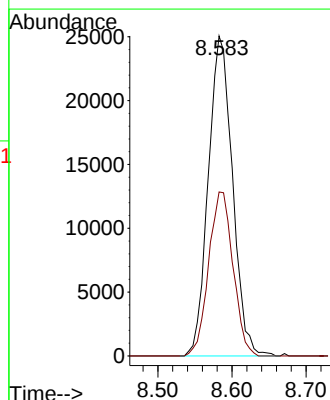
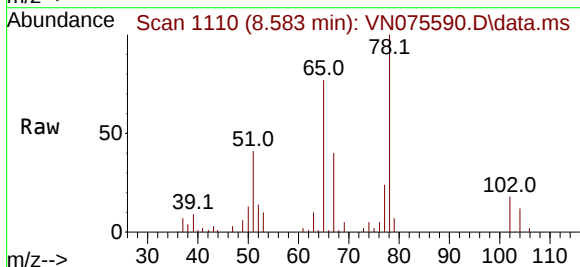
Acq: 06 Dec 2022 17:26

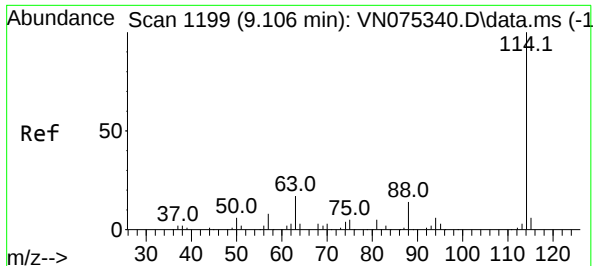
Tgt Ion: 65 Resp: 56921

Ion Ratio Lower Upper

65 100

67 51.5 0.0 102.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1199

Delta R.T. 0.000 min

Lab File: VN075590.D

Acq: 06 Dec 2022 17:26

Instrument :

MSVOA\_N

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HILL-12-02-SIL

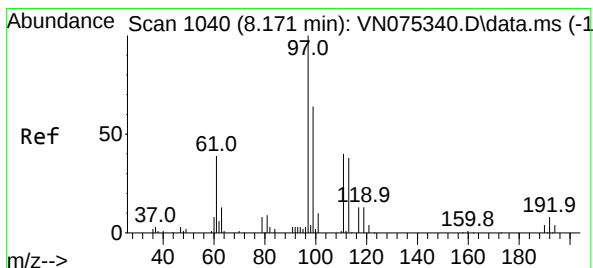
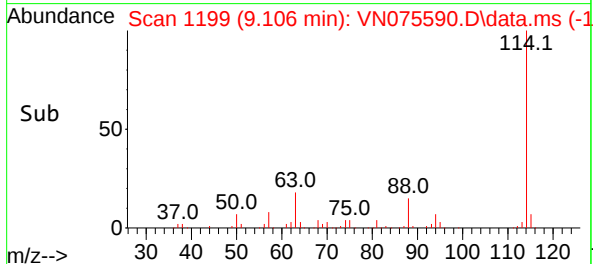
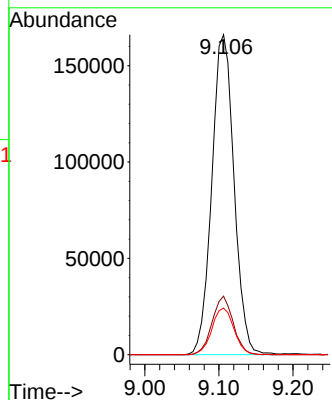
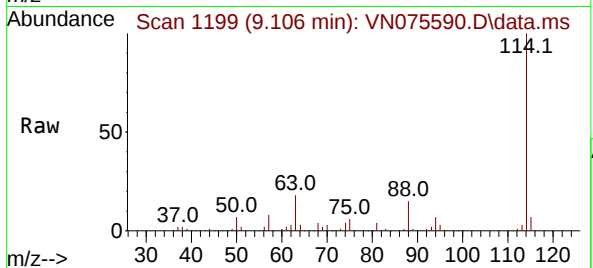
Tgt Ion:114 Resp: 346010

Ion Ratio Lower Upper

114 100

63 18.3 0.0 39.6

88 14.6 0.0 29.0



#35

Dibromofluoromethane

Concen: 51.985 ug/l

RT: 8.171 min Scan# 1040

Delta R.T. -0.000 min

Lab File: VN075590.D

Acq: 06 Dec 2022 17:26

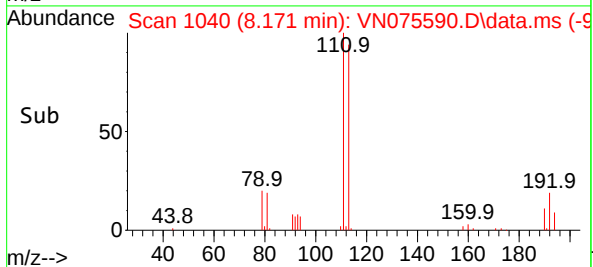
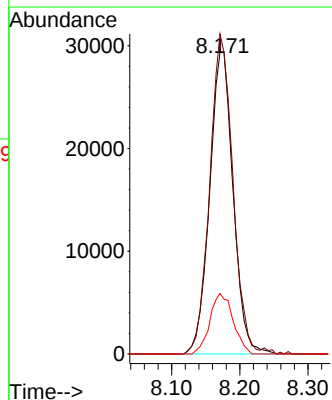
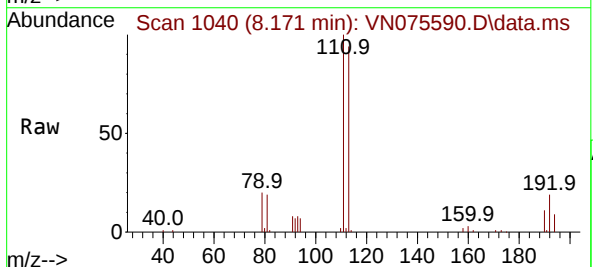
Tgt Ion:113 Resp: 70660

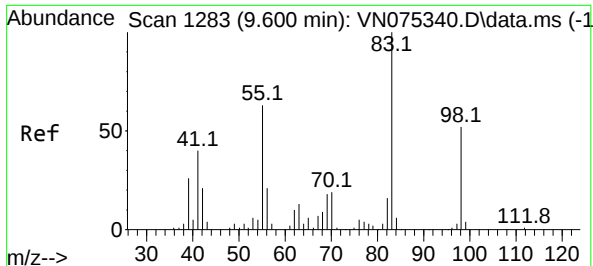
Ion Ratio Lower Upper

113 100

111 103.5 80.5 120.7

192 19.8 13.2 19.8





#39

Methylcyclohexane

Concen: 1.070 ug/l

RT: 9.606 min Scan# 1114

Delta R.T. 0.006 min

Lab File: VN075590.D

Acq: 06 Dec 2022 17:26

Instrument :

MSVOA\_N

ClientSampleId :

HILL-12-02-SIL

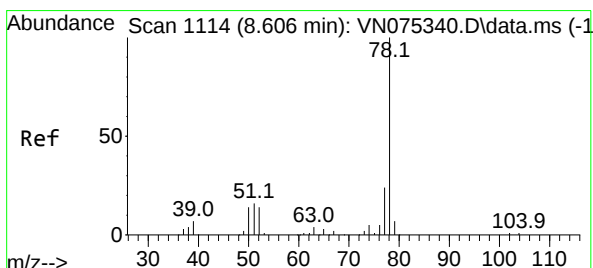
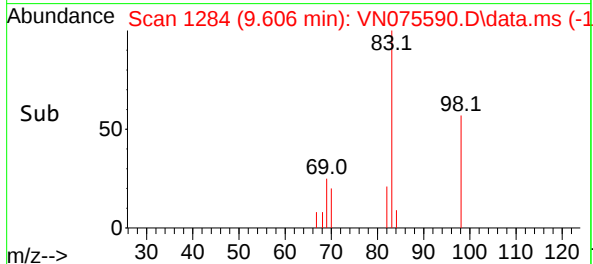
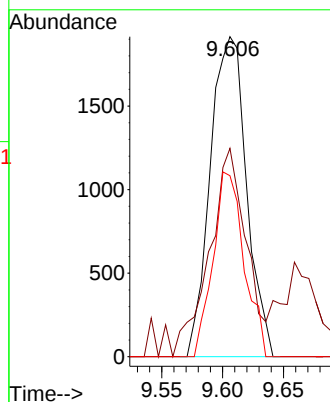
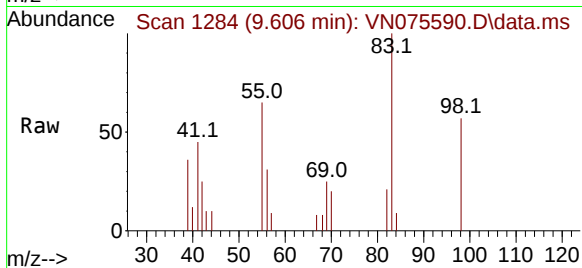
Tgt Ion: 83 Resp: 3970

Ion Ratio Lower Upper

83 100

55 57.1 53.6 80.4

98 56.6 41.1 61.7



#40

Benzene

Concen: 52.407 ug/l

RT: 8.606 min Scan# 1114

Delta R.T. 0.000 min

Lab File: VN075590.D

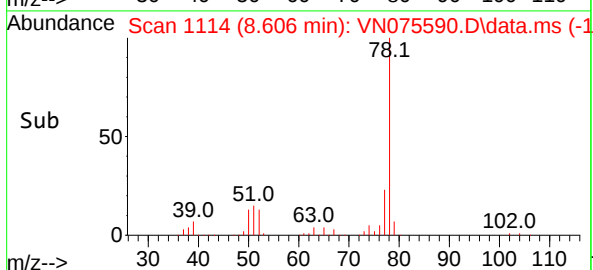
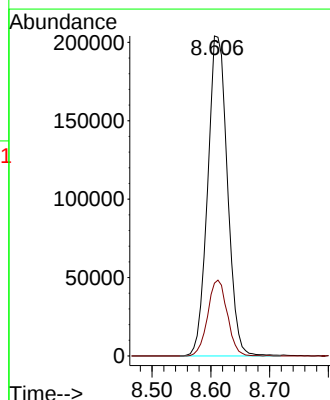
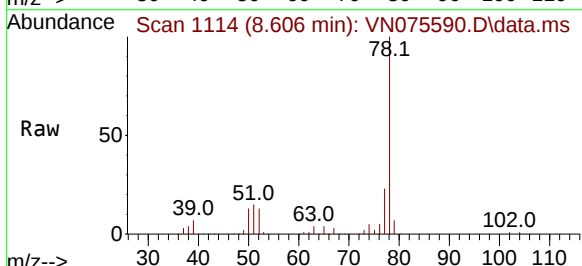
Acq: 06 Dec 2022 17:26

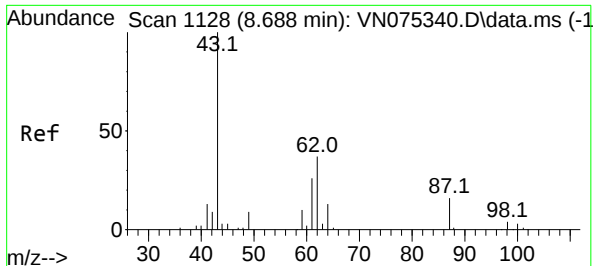
Tgt Ion: 78 Resp: 475621

Ion Ratio Lower Upper

78 100

77 22.7 19.4 29.0





#43

Isopropyl Acetate

Concen: 3.295 ug/l

RT: 8.694 min Scan# 1129

Delta R.T. 0.006 min

Lab File: VN075590.D

Acq: 06 Dec 2022 17:26

Instrument :

MSVOA\_N

ClientSampleId :

HILL-12-02-SIL

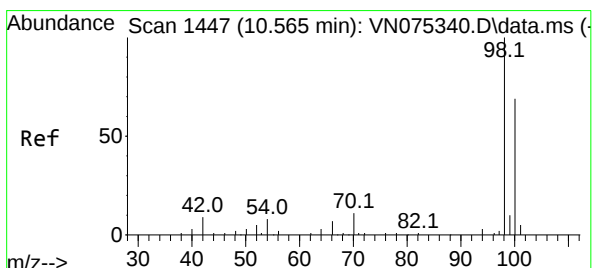
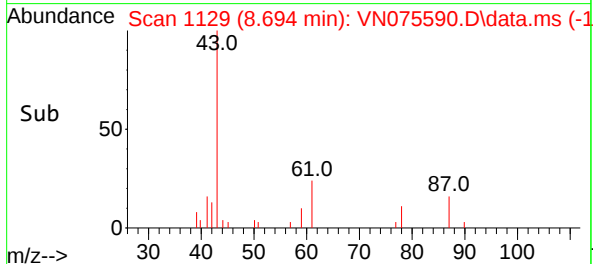
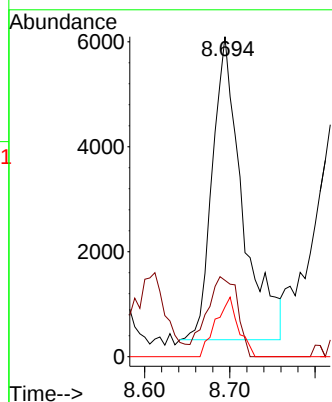
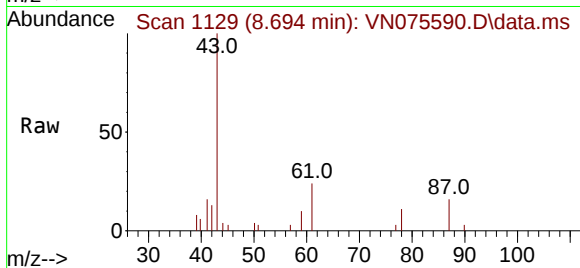
Tgt Ion: 43 Resp: 14117

Ion Ratio Lower Upper

43 100

61 27.0 22.4 33.6

87 14.8 12.5 18.7



#50

Toluene-d8

Concen: 50.403 ug/l

RT: 10.571 min Scan# 1448

Delta R.T. 0.006 min

Lab File: VN075590.D

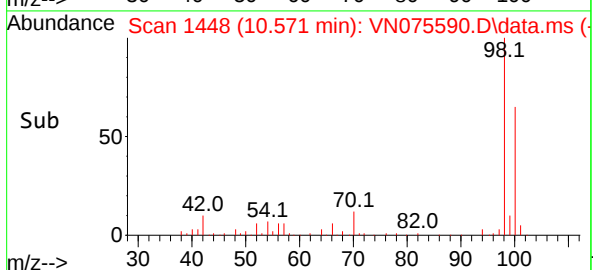
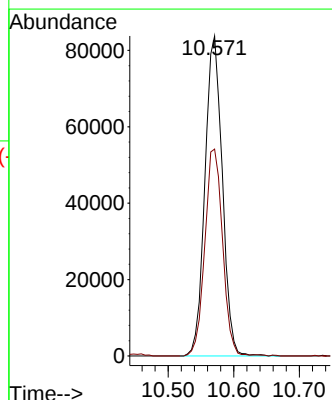
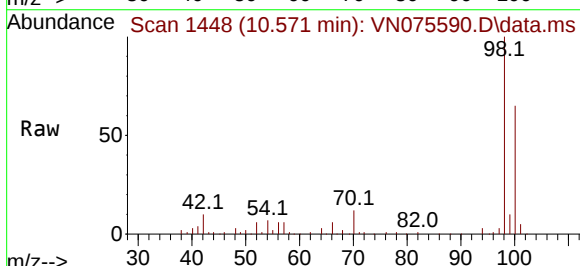
Acq: 06 Dec 2022 17:26

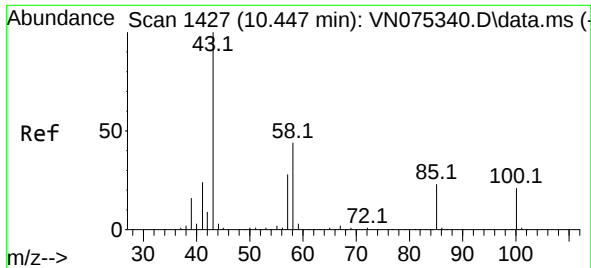
Tgt Ion: 98 Resp: 154303

Ion Ratio Lower Upper

98 100

100 66.3 53.0 79.6

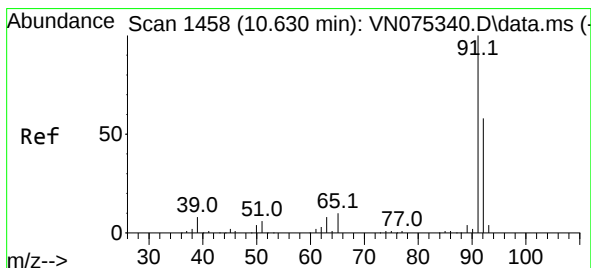
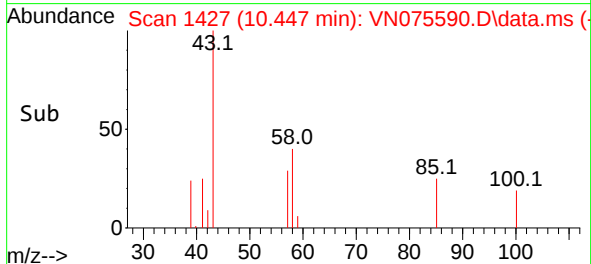
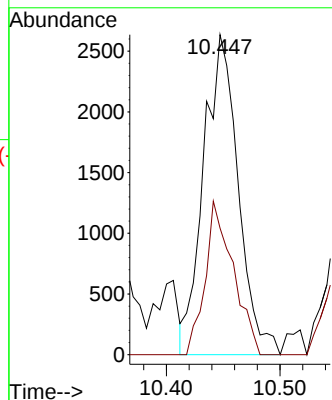
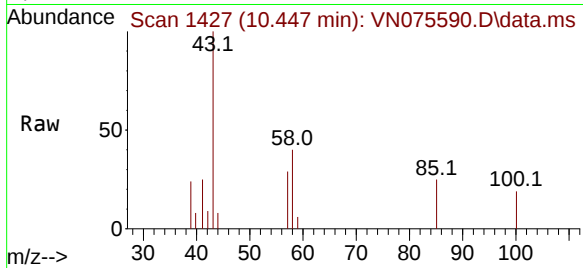




#51  
4-Methyl-2-Pentanone  
Concen: 2.045 ug/l  
RT: 10.447 min Scan# 1427  
Delta R.T. 0.000 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

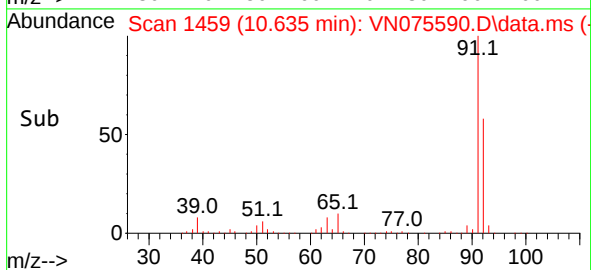
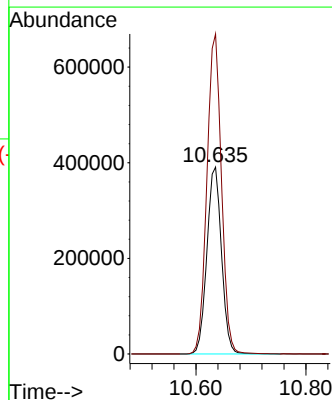
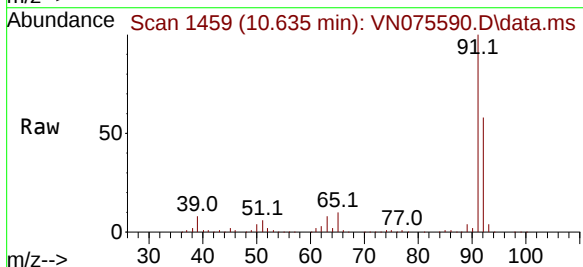
Instrument :  
MSVOA\_N  
ClientSampleId :  
HILL-12-02-SIL

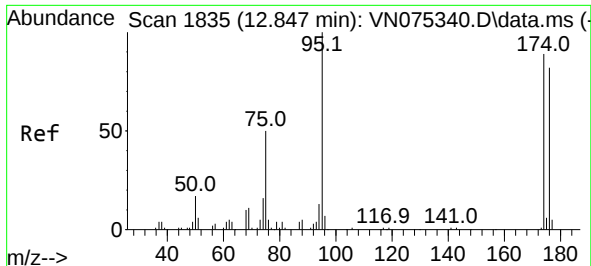
Tgt Ion: 43 Resp: 5581  
Ion Ratio Lower Upper  
43 100  
58 38.8 33.6 50.4



#52  
Toluene  
Concen: 123.142 ug/l  
RT: 10.635 min Scan# 1459  
Delta R.T. 0.005 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

Tgt Ion: 92 Resp: 720172  
Ion Ratio Lower Upper  
92 100  
91 170.5 135.4 203.2





#62

4-Bromofluorobenzene

Concen: 51.566 ug/l

RT: 12.853 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN075590.D

Acq: 06 Dec 2022 17:26

Instrument :

MSVOA\_N

ClientSampleId :

HILL-12-02-SIL

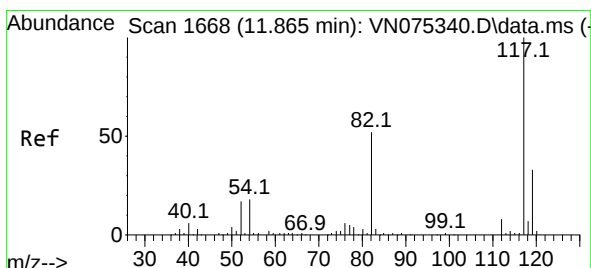
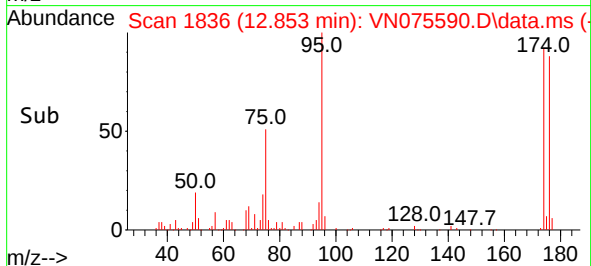
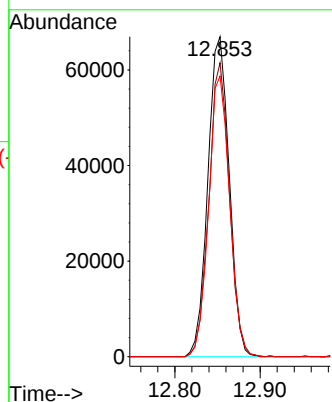
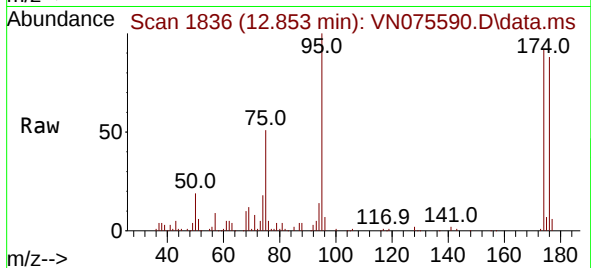
Tgt Ion: 95 Resp: 116521

Ion Ratio Lower Upper

95 100

174 88.1 0.0 147.4

176 86.1 0.0 142.2



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1668

Delta R.T. -0.000 min

Lab File: VN075590.D

Acq: 06 Dec 2022 17:26

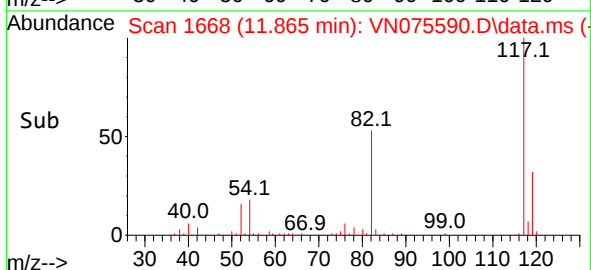
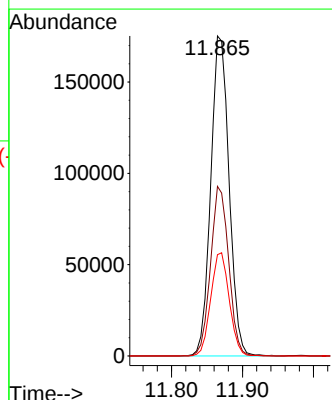
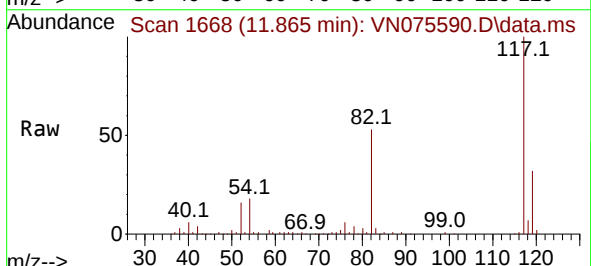
Tgt Ion: 117 Resp: 313426

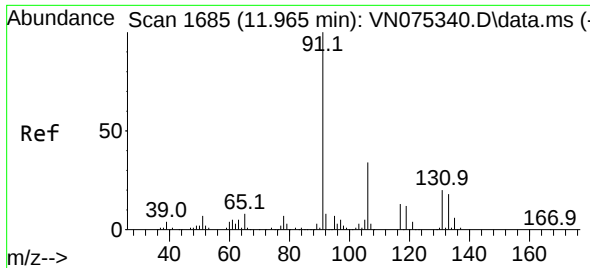
Ion Ratio Lower Upper

117 100

82 53.0 43.1 64.7

119 31.6 25.5 38.3

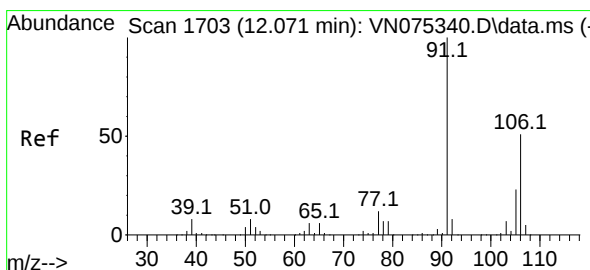
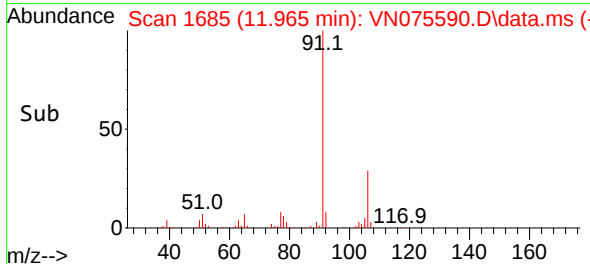
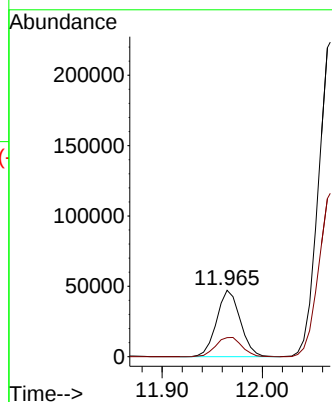
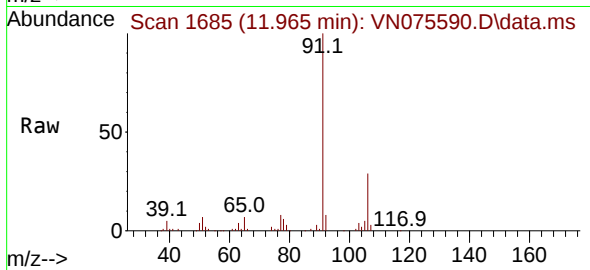




#67  
Ethyl Benzene  
Concen: 6.988 ug/l  
RT: 11.965 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

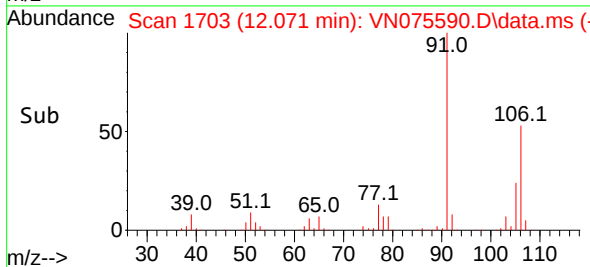
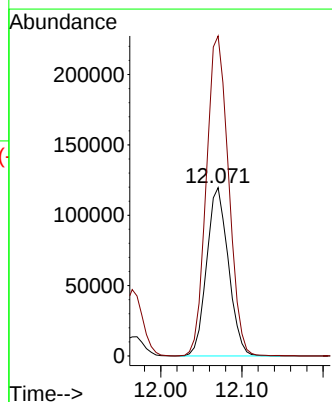
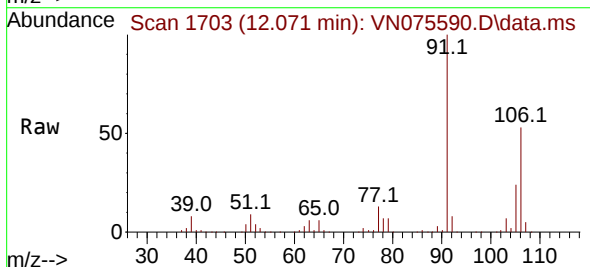
Instrument :  
MSVOA\_N  
ClientSampleId :  
HILL-12-02-SIL

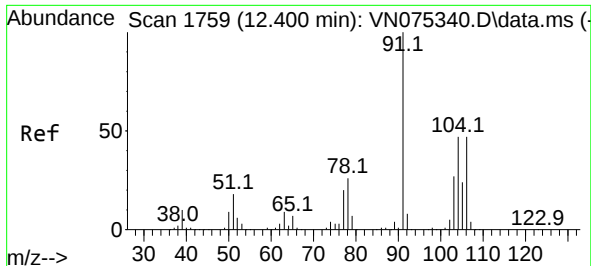
Tgt Ion: 91 Resp: 77166  
Ion Ratio Lower Upper  
91 100  
106 28.7 24.9 37.3



#68  
m/p-Xylenes  
Concen: 49.504 ug/l  
RT: 12.071 min Scan# 1703  
Delta R.T. -0.000 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

Tgt Ion: 106 Resp: 221994  
Ion Ratio Lower Upper  
106 100  
91 195.2 156.0 234.0

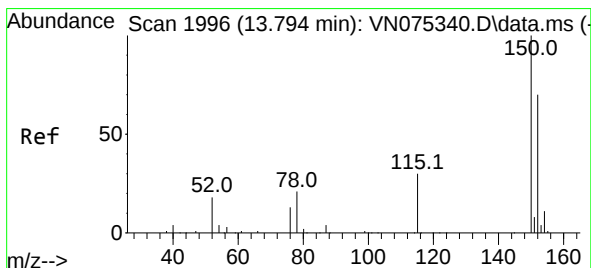
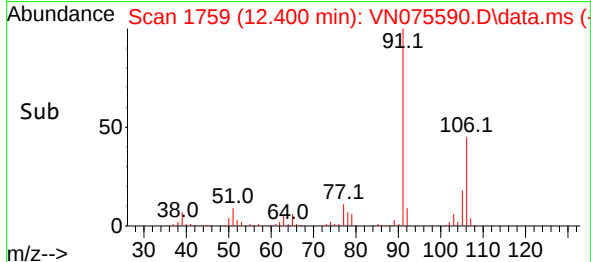
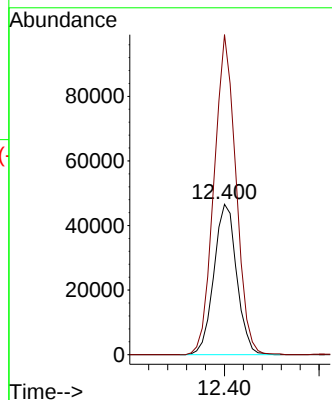
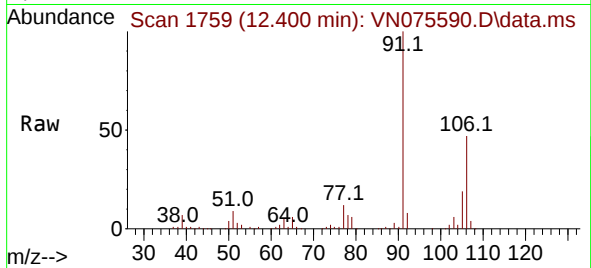




#69  
o-Xylene  
Concen: 17.471 ug/l  
RT: 12.400 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

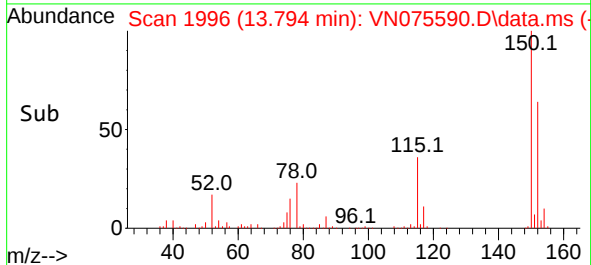
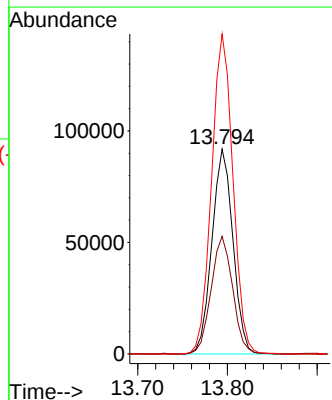
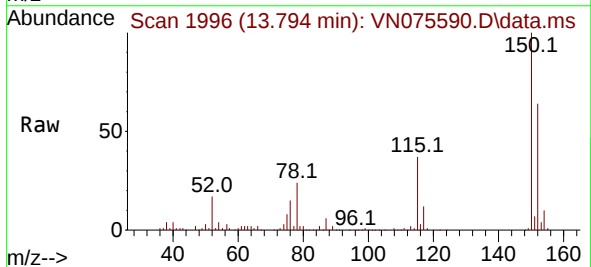
Instrument :  
MSVOA\_N  
ClientSampleId :  
HILL-12-02-SIL

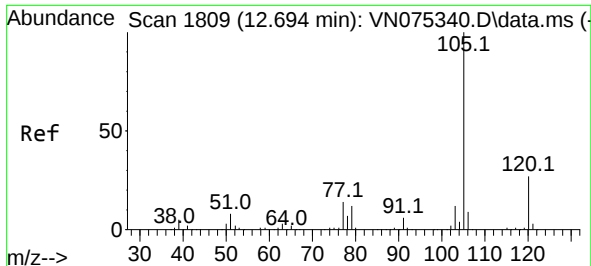
Tgt Ion:106 Resp: 77841  
Ion Ratio Lower Upper  
106 100  
91 204.7 105.2 315.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.794 min Scan# 1996  
Delta R.T. 0.000 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

Tgt Ion:152 Resp: 149307  
Ion Ratio Lower Upper  
152 100  
115 59.0 30.2 90.6  
150 158.8 0.0 348.4

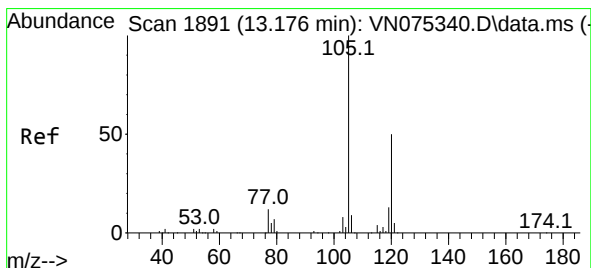
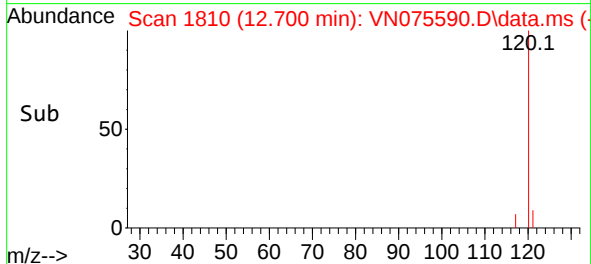
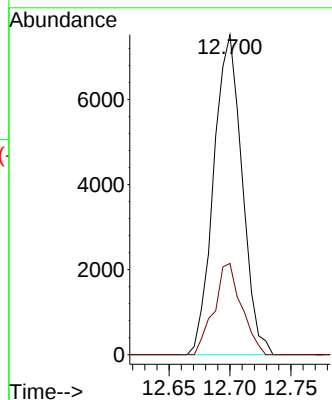
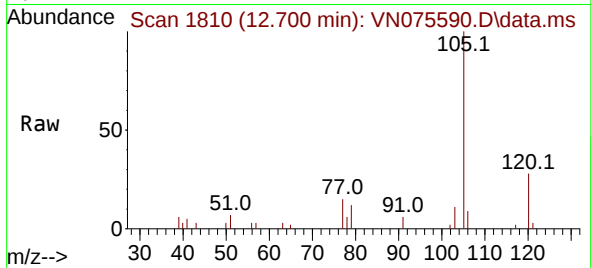




#73  
Isopropylbenzene  
Concen: 1.120 ug/l  
RT: 12.700 min Scan# 1810  
Delta R.T. 0.006 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

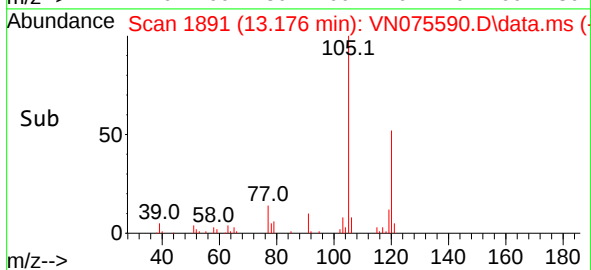
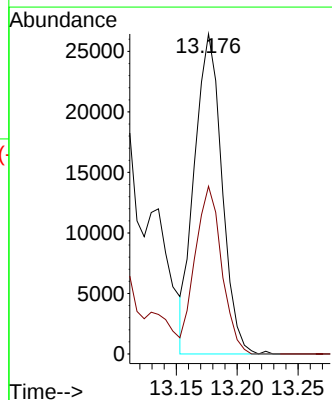
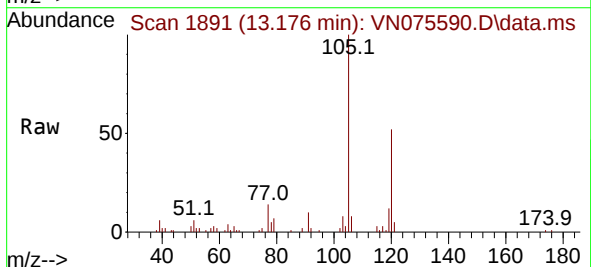
Instrument :  
MSVOA\_N  
ClientSampleId :  
HILL-12-02-SIL

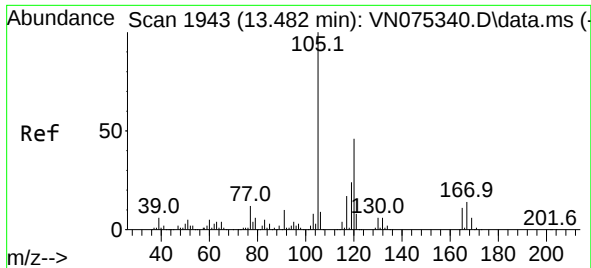
Tgt Ion:105 Resp: 12219  
Ion Ratio Lower Upper  
105 100  
120 27.6 13.1 39.1



#80  
1,3,5-Trimethylbenzene  
Concen: 4.576 ug/l  
RT: 13.176 min Scan# 1891  
Delta R.T. 0.000 min  
Lab File: VN075590.D  
Acq: 06 Dec 2022 17:26

Tgt Ion:105 Resp: 41471  
Ion Ratio Lower Upper  
105 100  
120 50.8 24.7 74.1





#84  
 1,2,4-Trimethylbenzene  
 Concen: 8.145 ug/l  
 RT: 13.488 min Scan# 1944  
 Delta R.T. 0.006 min  
 Lab File: VN075590.D  
 Acq: 06 Dec 2022 17:26

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 HILL-12-02-SIL

Tgt Ion:105 Resp: 74044  
 Ion Ratio Lower Upper  
 105 100  
 120 47.5 22.7 68.1

