

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\U060922\  
 Data File : U048984.D  
 Acq On : 09 Jun 2022 18:29  
 Operator : SY/MD  
 Sample : N3248-09  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXYY0

Quant Time: Jun 10 01:05:24 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM051622WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 10 01:01:44 2022  
 Response via : Initial Calibration

| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) 1,4-Difluorobenzene        | 6.250     | 114   | 321570   | 50.000   | ug/L       | 0.00     |
| 28) Chlorobenzene-d5          | 9.417     | 117   | 302039   | 50.000   | ug/L       | 0.00     |
| 58) 1,4-Dichlorobenzene-d4    | 11.812    | 152   | 147040   | 50.000   | ug/L       | 0.00     |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 4) Vinyl Chloride-d3          | 1.597     | 65    | 103126   | 52.359   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 60 - 135 | Recovery | = 104.720% |          |
| 7) Chloroethane-d5            | 1.900     | 69    | 73673    | 49.927   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 130 | Recovery | = 99.860%  |          |
| 11) 1,1-Dichloroethene-d2     | 2.562     | 63    | 148633   | 33.368   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 60 - 125 | Recovery | = 66.740%  |          |
| 21) 2-Butanone-d5             | 4.620     | 46    | 224112   | 119.570  | ug/L       | 0.00     |
| Spiked Amount                 | 100.000   | Range | 40 - 130 | Recovery | = 119.570% |          |
| 24) Chloroform-d              | 5.063     | 84    | 214862   | 43.170   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 125 | Recovery | = 86.340%  |          |
| 26) 1,2-Dichloroethane-d4     | 5.700     | 65    | 138356   | 39.403   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 125 | Recovery | = 78.800%  |          |
| 32) Benzene-d6                | 5.726     | 84    | 404076   | 48.070   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 125 | Recovery | = 96.140%  |          |
| 36) 1,2-Dichloropropane-d6    | 6.690     | 67    | 140786   | 57.050   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 120 | Recovery | = 114.100% |          |
| 41) Toluene-d8                | 7.899     | 98    | 359735   | 45.497   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 80 - 120 | Recovery | = 91.000%  |          |
| 43) trans-1,3-Dichloroprop... | 8.179     | 79    | 67723    | 42.917   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 60 - 125 | Recovery | = 85.840%  |          |
| 47) 2-Hexanone-d5             | 8.632     | 63    | 150489   | 111.198  | ug/L       | 0.00     |
| Spiked Amount                 | 100.000   | Range | 45 - 130 | Recovery | = 111.200% |          |
| 56) 1,1,2,2-Tetrachloroeth... | 10.758    | 84    | 207328   | 50.773   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 65 - 120 | Recovery | = 101.540% |          |
| 66) 1,2-Dichlorobenzene-d4    | 12.195    | 152   | 141677   | 47.133   | ug/L       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 80 - 120 | Recovery | = 94.260%  |          |
| Target Compounds              |           |       |          |          |            |          |
|                               |           |       |          |          | Qvalue     |          |
| 5) Vinyl chloride             | 1.601     | 62    | 134249   | 59.187   | ug/L       | 97       |
| 8) Chloroethane               | 1.922     | 64    | 1244714  | 932.324  | ug/L       | 100      |
| 9) Trichlorofluoromethane     | 2.131     | 101   | 2349     | 0.530    | ug/L       | 94       |
| 10) 1,1,2-Trichloro-1,2,2-... | 2.559     | 101   | 1352     | 0.599    | ug/L #     | 17       |
| 12) 1,1-Dichloroethene        | 2.575     | 96    | 19317    | 9.233    | ug/L #     | 1        |
| 13) Acetone                   | 2.626     | 43    | 4241     | 2.785    | ug/L       | 94       |
| 17) trans-1,2-Dichloroethene  | 3.350     | 96    | 11091    | 4.915    | ug/L       | 91       |
| 19) 1,1-Dichloroethane        | 3.867     | 63    | 1536078  | 371.813  | ug/L       | 99       |
| 20) cis-1,2-Dichloroethene    | 4.665     | 96    | 771350   | 303.103  | ug/L       | 99       |
| 27) 1,2-Dichloroethane        | 5.796     | 62    | 5919     | 1.431    | ug/L #     | 92       |
| 30) 1,1,1-Trichloroethane     | 5.317     | 97    | 1756424  | 384.061  | ug/L       | 99       |
| 33) Benzene                   | 5.774     | 78    | 8352     | 0.946    | ug/L       | 100      |
| 34) Trichloroethene           | 6.542     | 95    | 18153    | 7.271    | ug/L       | 95       |
| 35) Methylcyclohexane         | 6.764     | 83    | 2879     | 0.804    | ug/L #     | 83       |
| 42) Toluene                   | 7.970     | 91    | 232275   | 24.150   | ug/L       | 100      |
| 44) trans-1,3-Dichloropropene | 8.182     | 75    | 2880     | 0.725    | ug/L #     | 82       |
| 46) Tetrachloroethene         | 8.555     | 164   | 33065    | 16.230   | ug/L       | 95       |
| 52) Ethylbenzene              | 9.571     | 91    | 69685    | 6.340    | ug/L       | 97       |
| 53) m,p-Xylene                | 9.690     | 106   | 53739    | 12.166   | ug/L       | 95       |

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU060922\  
 Data File : VU048984.D  
 Acq On : 09 Jun 2022 18:29  
 Operator : SY/MD  
 Sample : N3248-09  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 14 Sample Multiplier: 1

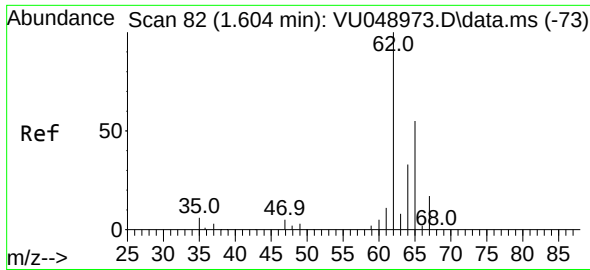
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXYY0

Quant Time: Jun 10 01:05:24 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\SFAMULM051622WMA.M  
 Quant Title : VOC Analysis  
 QLast Update : Fri Jun 10 01:01:44 2022  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| 54) o-Xylene               | 10.099 | 106  | 33340    | 7.879  | ug/L  | 99       |
| 61) Isopropylbenzene       | 10.484 | 105  | 11144    | 1.231  | ug/L  | 98       |
| 62) 1,3,5-Trimethylbenzene | 11.089 | 105  | 30252    | 5.876  | ug/L  | 98       |
| 63) 1,2,4-Trimethylbenzene | 11.468 | 105  | 161197   | 20.136 | ug/L  | 100      |
| 67) 1,2-Dichlorobenzene    | 12.214 | 146  | 7978     | 1.680  | ug/L  | 98       |
| 71) Naphthalene            | 14.092 | 128  | 25210    | 2.271  | ug/L  | 97       |

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

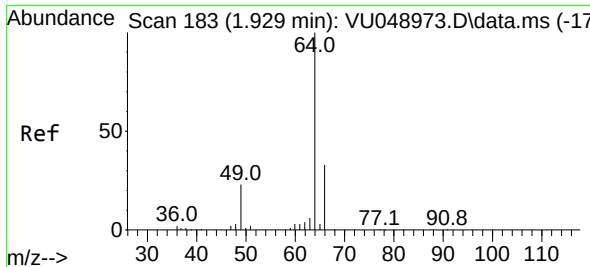
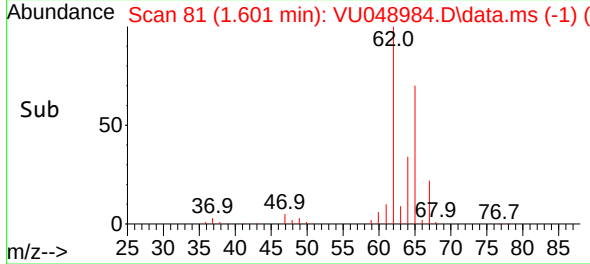
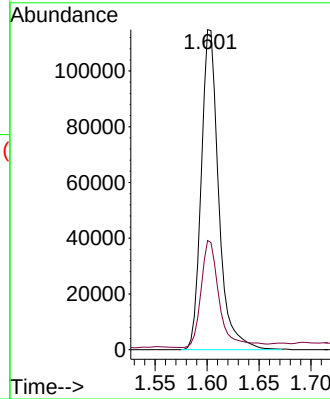
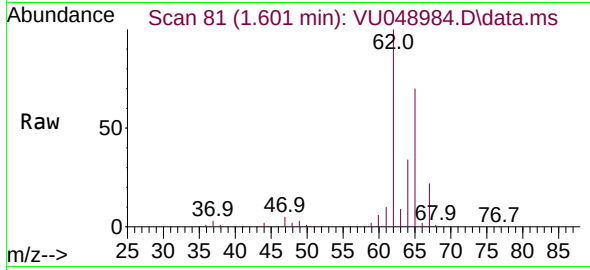




#5  
Vinyl chloride  
Concen: 59.187 ug/L  
RT: 1.601 min Scan# 81  
Delta R.T. -0.003 min  
Lab File: VU048984.D  
Acq: 09 Jun 2022 18:29

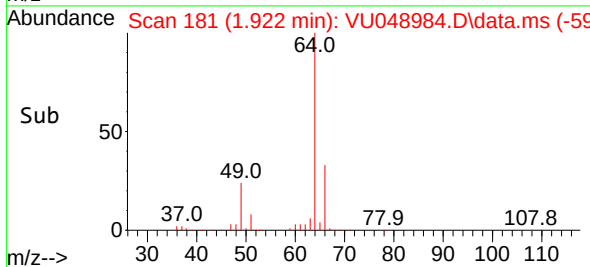
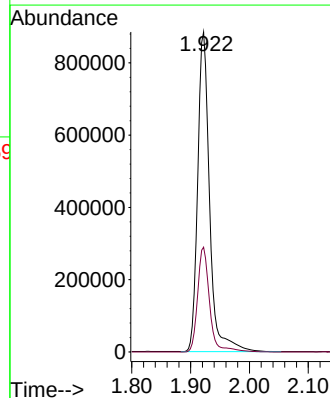
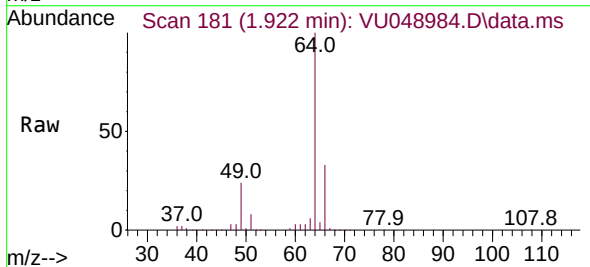
Instrument :  
MSVOA\_U  
ClientSampleId :  
EXYY0

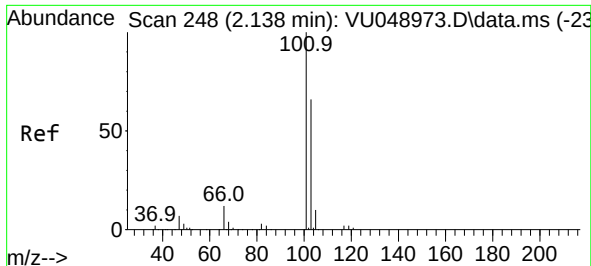
Tgt Ion: 62 Resp: 134249  
Ion Ratio Lower Upper  
62 100  
64 34.1 22.9 42.5



#8  
Chloroethane  
Concen: 932.324 ug/L  
RT: 1.922 min Scan# 181  
Delta R.T. -0.006 min  
Lab File: VU048984.D  
Acq: 09 Jun 2022 18:29

Tgt Ion: 64 Resp: 1244714  
Ion Ratio Lower Upper  
64 100  
66 32.7 23.1 42.9

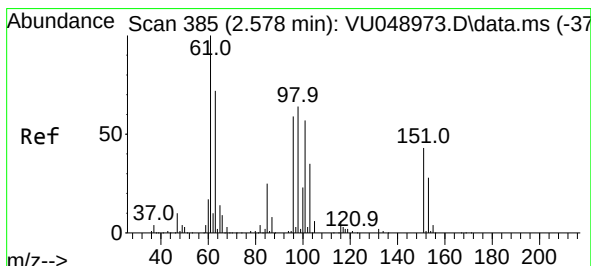
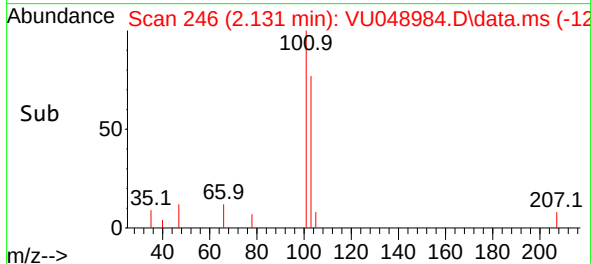
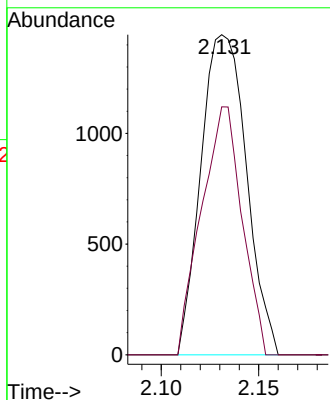
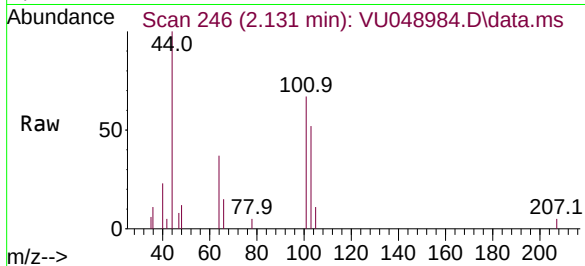




#9  
 Trichlorofluoromethane  
 Concen: 0.530 ug/L  
 RT: 2.131 min Scan# 24  
 Delta R.T. -0.006 min  
 Lab File: VU048984.D  
 Acq: 09 Jun 2022 18:29

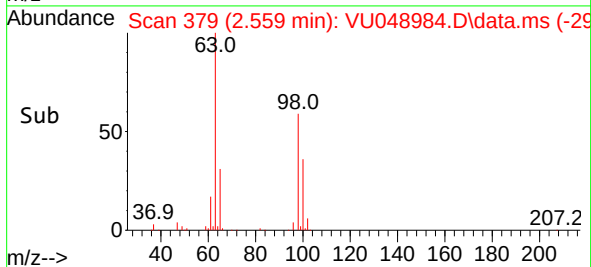
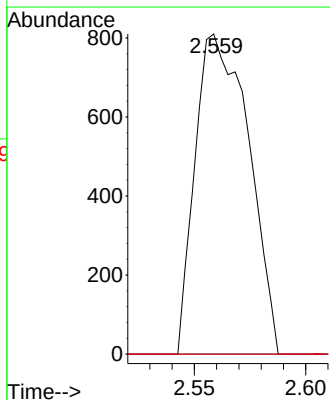
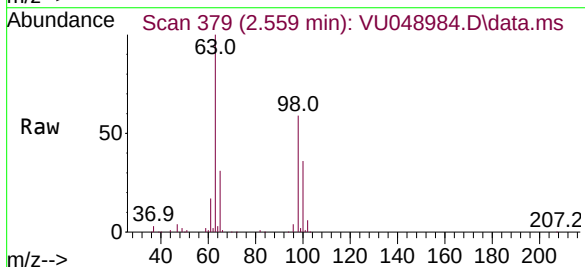
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 EXYY0

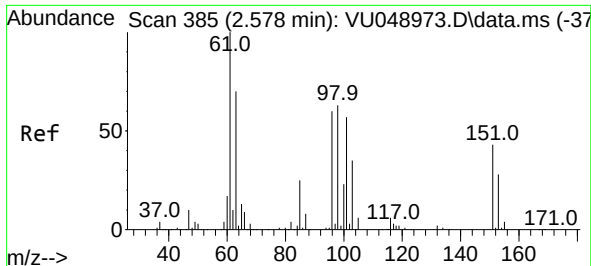
Tgt Ion:101 Resp: 2349  
 Ion Ratio Lower Upper  
 101 100  
 103 69.0 51.6 77.4



#10  
 1,1,2-Trichloro-1,2,2-trifluoroethane  
 Concen: 0.599 ug/L  
 RT: 2.559 min Scan# 379  
 Delta R.T. -0.019 min  
 Lab File: VU048984.D  
 Acq: 09 Jun 2022 18:29

Tgt Ion:101 Resp: 1352  
 Ion Ratio Lower Upper  
 101 100  
 85 0.0 35.7 53.5#  
 151 0.0 64.4 96.6#





#12

1,1-Dichloroethene

Concen: 9.233 ug/L

RT: 2.575 min Scan# 385

Delta R.T. -0.003 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

Instrument :

MSVOA\_U

ClientSampleId :

EXYY0

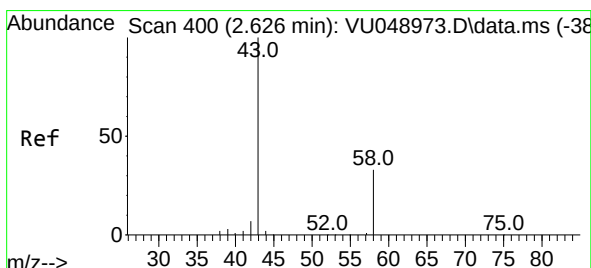
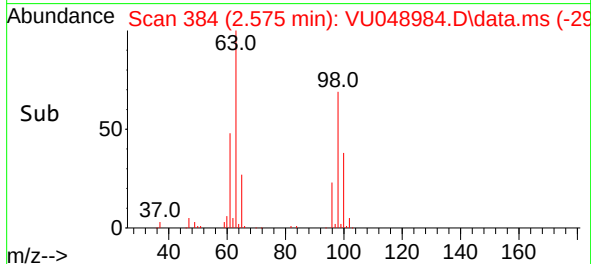
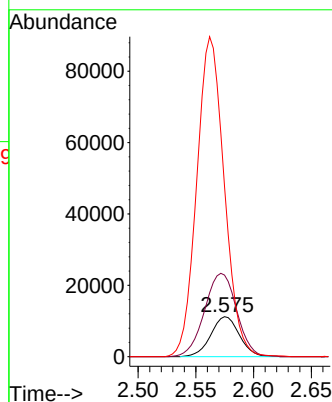
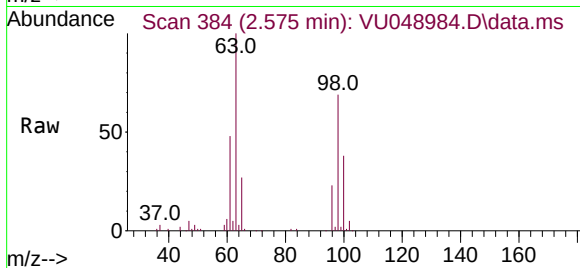
Tgt Ion: 96 Resp: 19317

Ion Ratio Lower Upper

96 100

61 203.7 120.6 224.0

63 425.8 82.3 152.9#



#13

Acetone

Concen: 2.785 ug/L

RT: 2.626 min Scan# 400

Delta R.T. -0.000 min

Lab File: VU048984.D

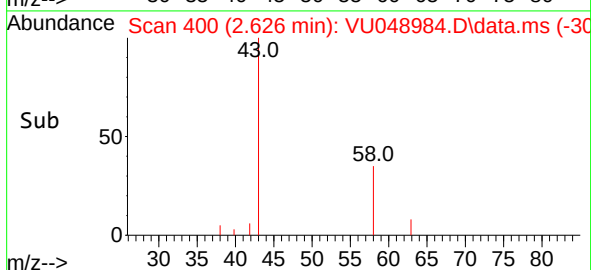
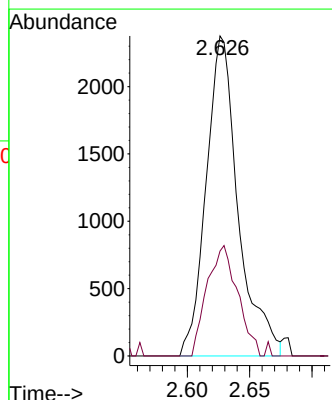
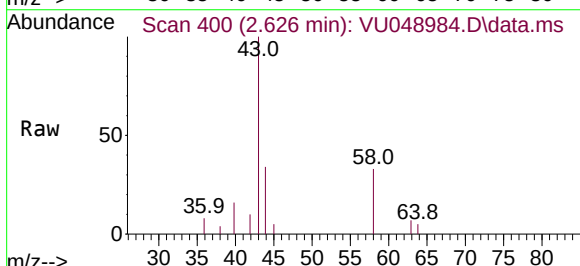
Acq: 09 Jun 2022 18:29

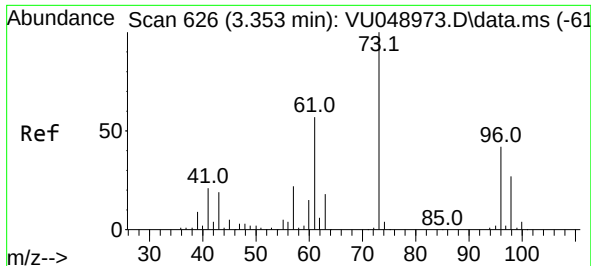
Tgt Ion: 43 Resp: 4241

Ion Ratio Lower Upper

43 100

58 33.1 0.0 59.8





#17

trans-1,2-Dichloroethene

Concen: 4.915 ug/L

RT: 3.350 min Scan# 61

Delta R.T. -0.003 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

Instrument :

MSVOA\_U

ClientSampleId :

EXYY0

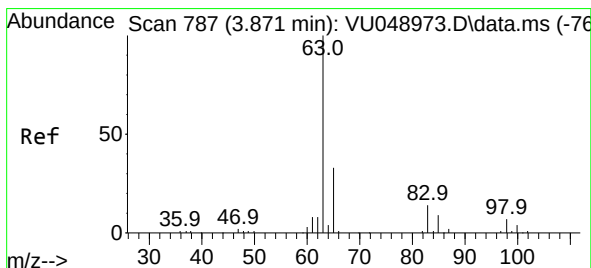
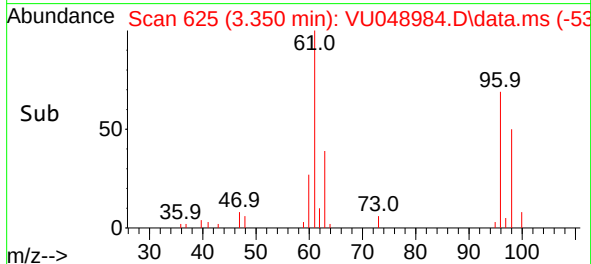
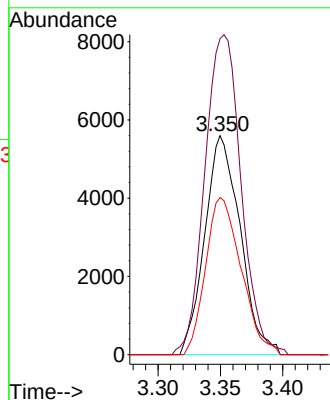
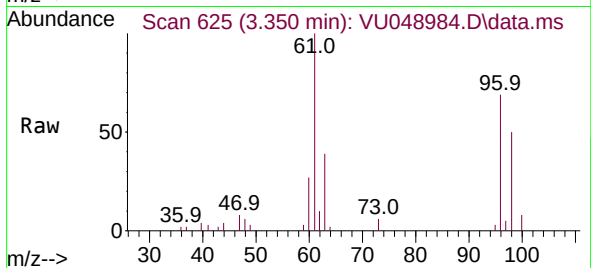
Tgt Ion: 96 Resp: 11091

Ion Ratio Lower Upper

96 100

61 144.3 94.2 175.0

98 71.7 45.1 83.7



#19

1,1-Dichloroethane

Concen: 371.813 ug/L

RT: 3.867 min Scan# 786

Delta R.T. -0.003 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

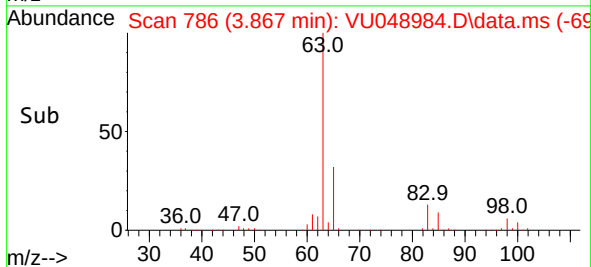
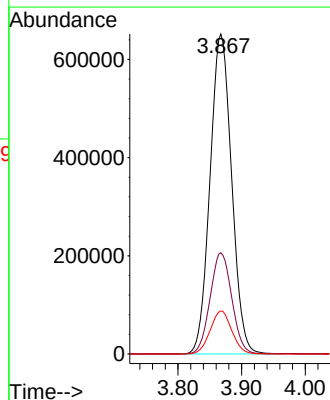
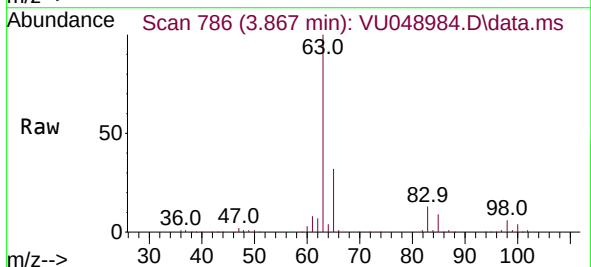
Tgt Ion: 63 Resp: 1536078

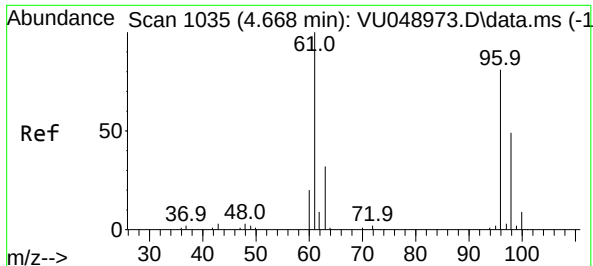
Ion Ratio Lower Upper

63 100

65 31.6 21.8 40.6

83 13.4 9.8 18.2





#20

cis-1,2-Dichloroethene

Concen: 303.103 ug/L

RT: 4.665 min Scan# 1034

Delta R.T. -0.003 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

Instrument :

MSVOA\_U

ClientSampleId :

EXYY0

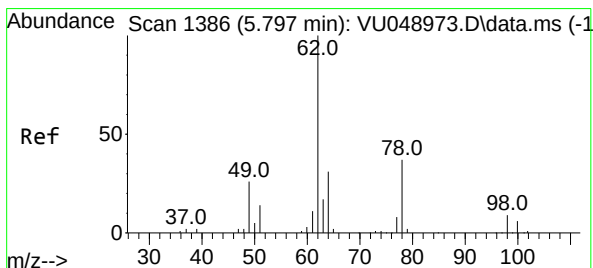
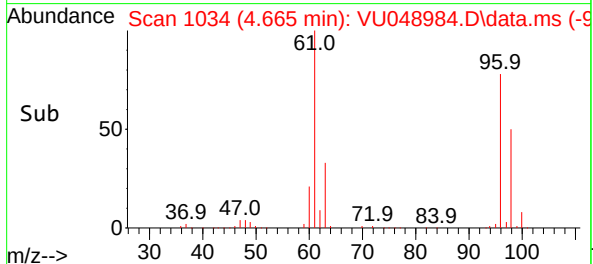
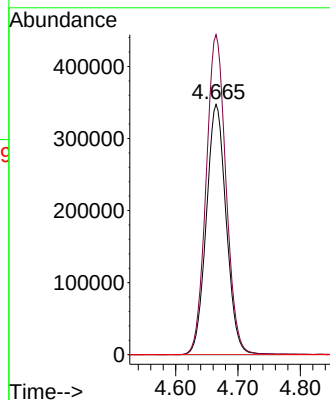
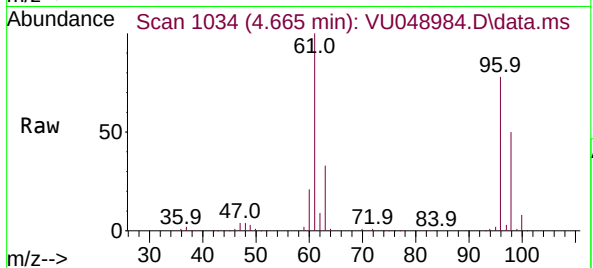
Tgt Ion: 96 Resp: 771350

Ion Ratio Lower Upper

96 100

61 127.9 88.3 164.1

68 0.0 0.0 0.0



#27

1,2-Dichloroethane

Concen: 1.431 ug/L

RT: 5.796 min Scan# 1386

Delta R.T. -0.000 min

Lab File: VU048984.D

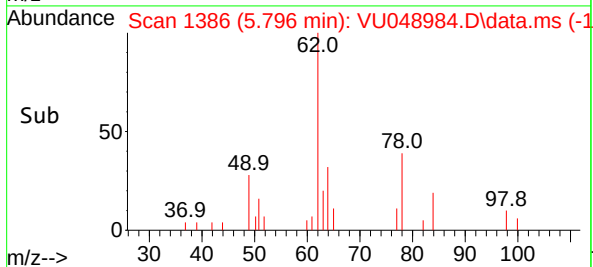
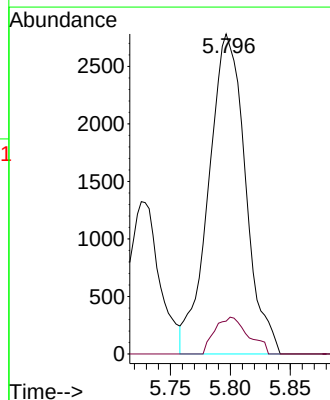
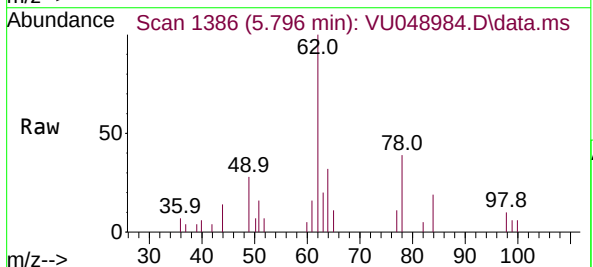
Acq: 09 Jun 2022 18:29

Tgt Ion: 62 Resp: 5919

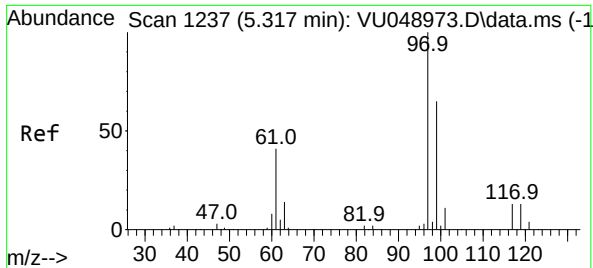
Ion Ratio Lower Upper

62 100

98 10.3 6.0 9.0#







#30

1,1,1-Trichloroethane

Concen: 384.061 ug/L

RT: 5.317 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

Instrument :

MSVOA\_U

ClientSampleId :

EXYY0

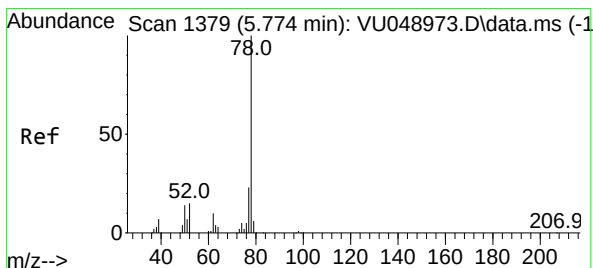
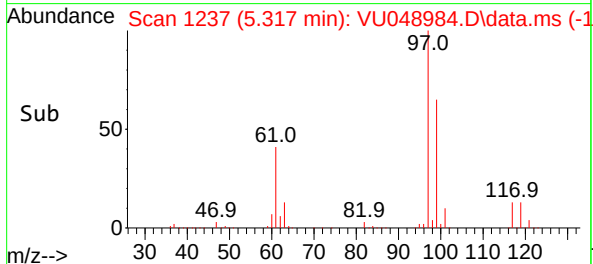
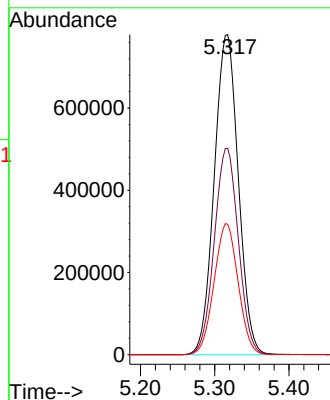
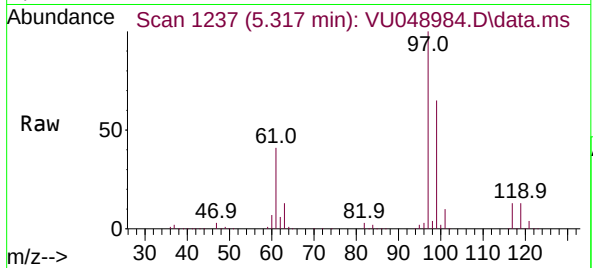
Tgt Ion: 97 Resp: 1756424

Ion Ratio Lower Upper

97 100

99 64.6 50.3 75.5

61 40.9 32.6 48.8



#33

Benzene

Concen: 0.946 ug/L

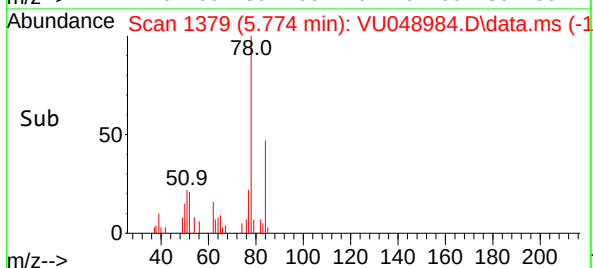
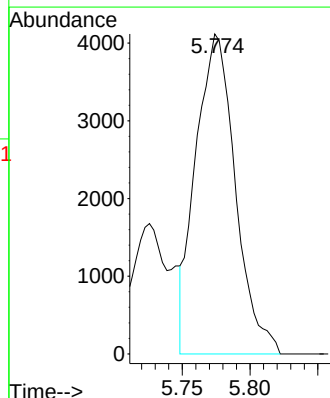
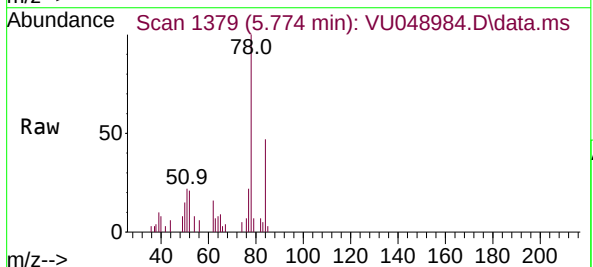
RT: 5.774 min Scan# 1379

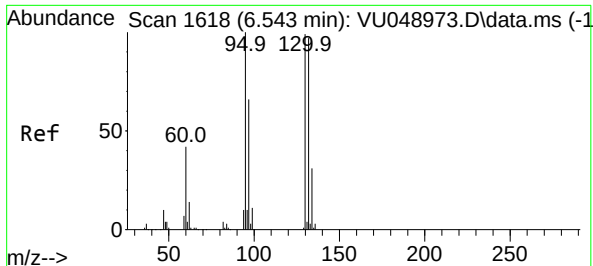
Delta R.T. -0.000 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

Tgt Ion: 78 Resp: 8352





#34

Trichloroethene

Concen: 7.271 ug/L

RT: 6.542 min Scan# 1

Delta R.T. -0.000 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

Instrument :

MSVOA\_U

ClientSampleId :

EXYY0

Tgt Ion: 95 Resp: 18153

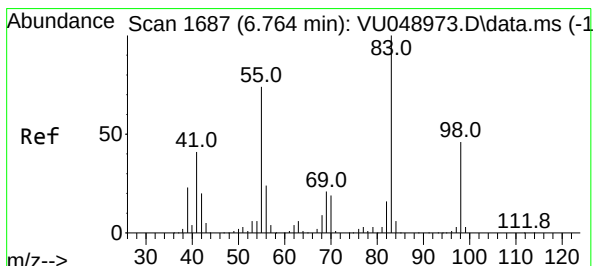
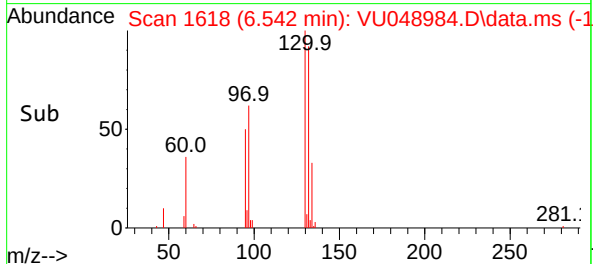
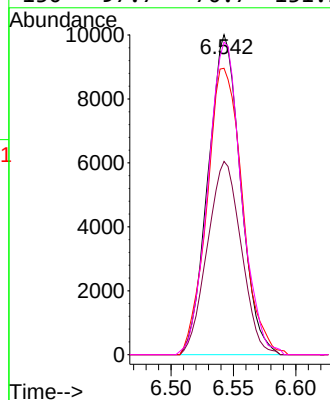
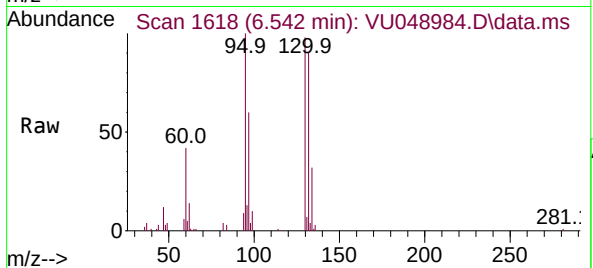
Ion Ratio Lower Upper

95 100

97 60.4 45.2 84.0

132 89.5 67.3 124.9

130 97.7 70.7 131.3



#35

Methylcyclohexane

Concen: 0.804 ug/L

RT: 6.764 min Scan# 1687

Delta R.T. -0.000 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

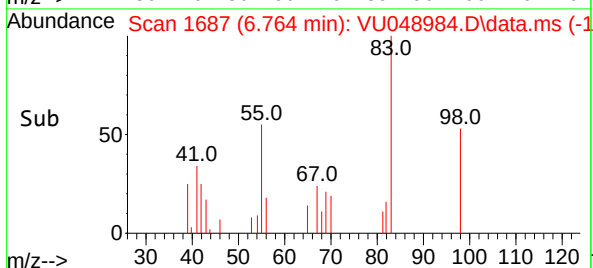
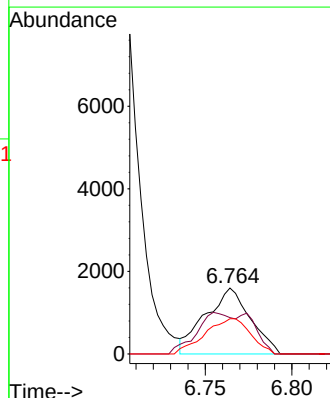
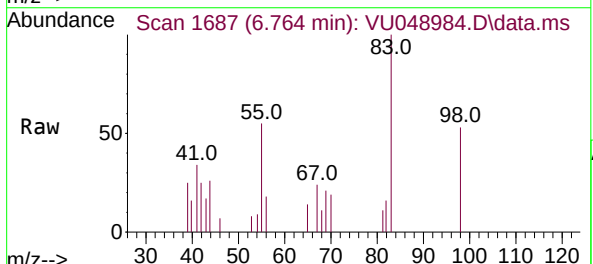
Tgt Ion: 83 Resp: 2879

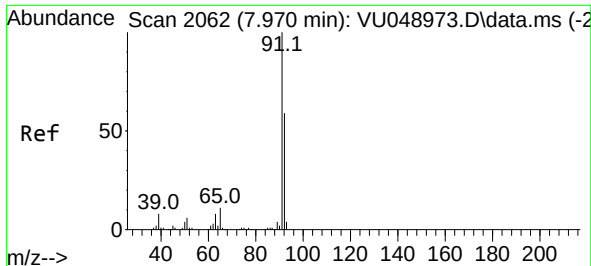
Ion Ratio Lower Upper

83 100

55 52.1 56.2 84.4#

98 54.0 38.2 57.2





#42

Toluene

Concen: 24.150 ug/L

RT: 7.970 min Scan# 2062

Delta R.T. -0.000 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

Instrument :

MSVOA\_U

ClientSampleId :

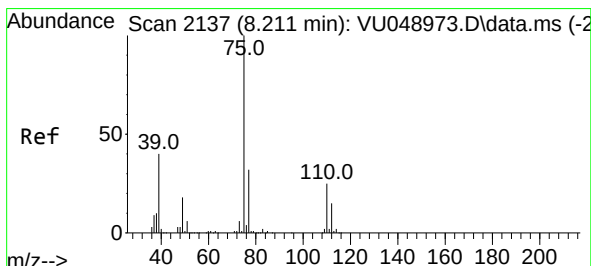
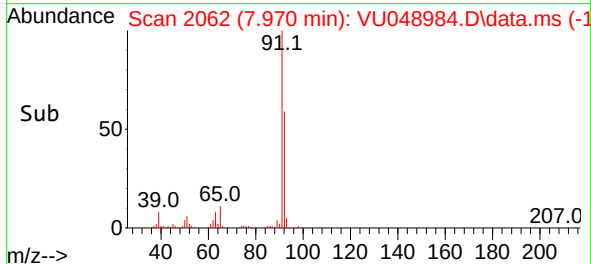
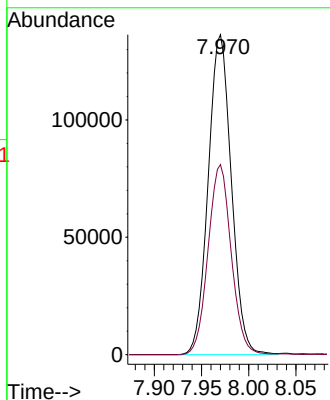
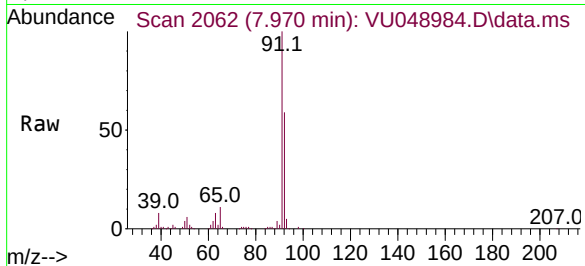
EXYY0

Tgt Ion: 91 Resp: 232275

Ion Ratio Lower Upper

91 100

92 59.4 41.4 77.0



#44

trans-1,3-Dichloropropene

Concen: 0.725 ug/L

RT: 8.182 min Scan# 2128

Delta R.T. -0.029 min

Lab File: VU048984.D

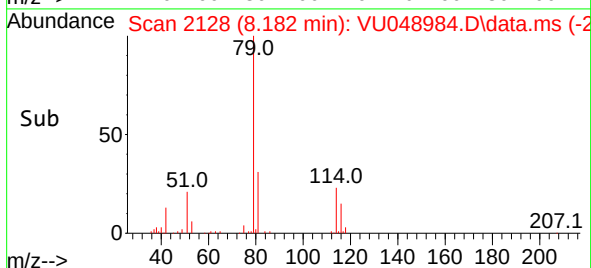
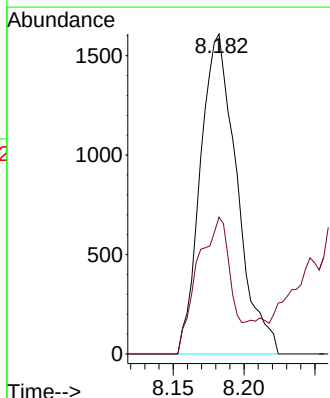
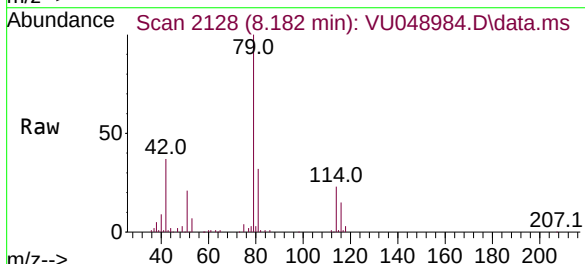
Acq: 09 Jun 2022 18:29

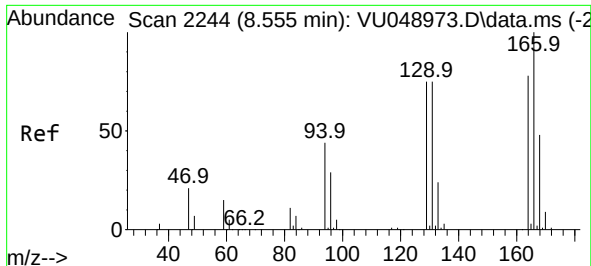
Tgt Ion: 75 Resp: 2880

Ion Ratio Lower Upper

75 100

77 42.8 22.7 42.1#





#46

Tetrachloroethene

Concen: 16.230 ug/L

RT: 8.555 min Scan# 21

Delta R.T. -0.000 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

Instrument :

MSVOA\_U

ClientSampleId :

EXYY0

Tgt Ion:164 Resp: 33065

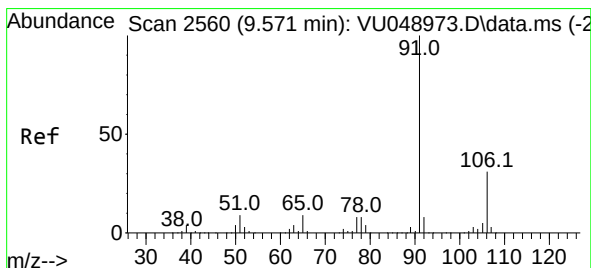
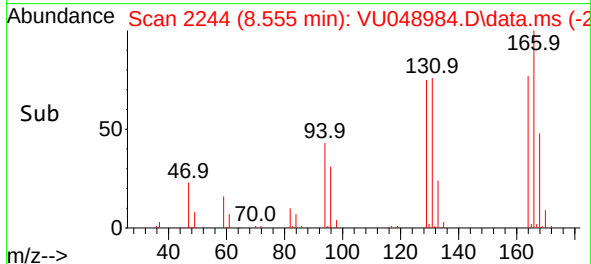
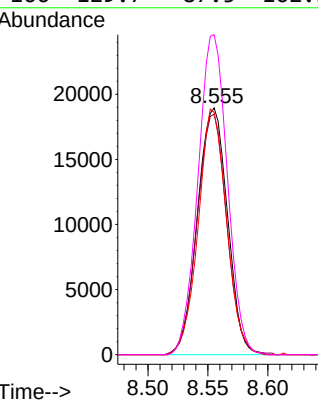
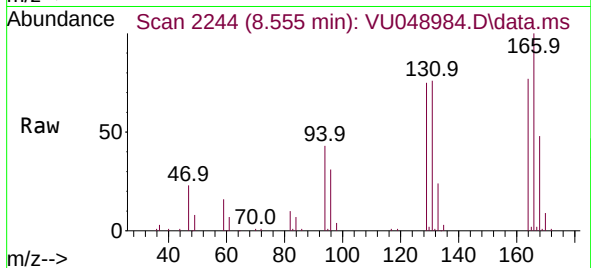
Ion Ratio Lower Upper

164 100

129 97.5 64.3 119.3

131 98.2 64.5 119.7

166 129.7 87.5 162.5



#52

Ethylbenzene

Concen: 6.340 ug/L

RT: 9.571 min Scan# 2560

Delta R.T. -0.000 min

Lab File: VU048984.D

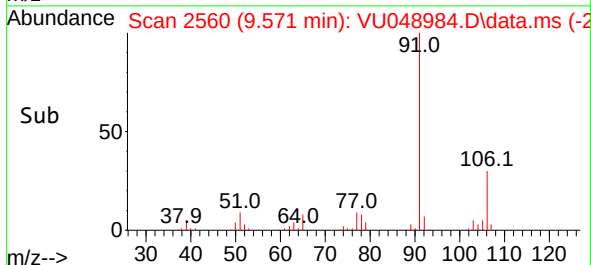
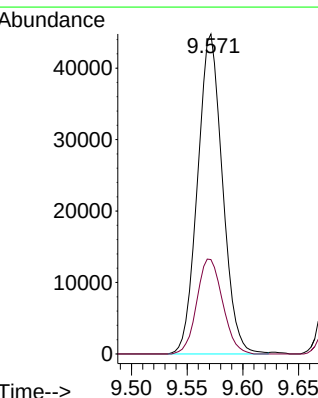
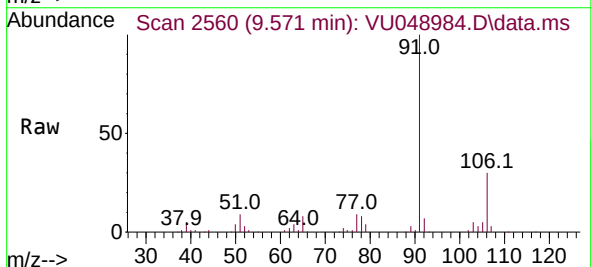
Acq: 09 Jun 2022 18:29

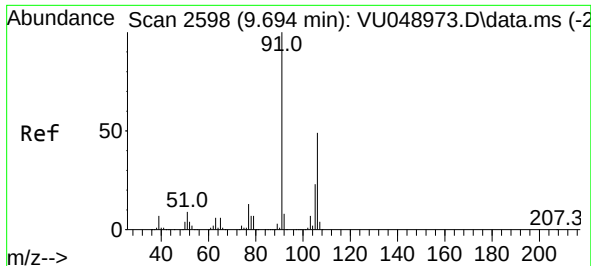
Tgt Ion: 91 Resp: 69685

Ion Ratio Lower Upper

91 100

106 29.5 21.8 40.6

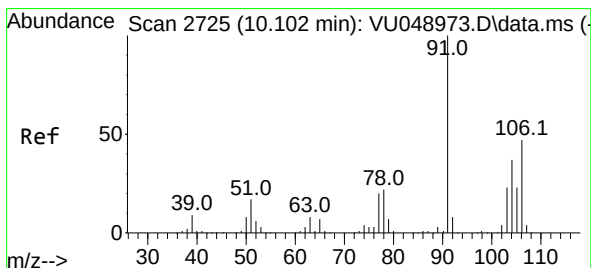
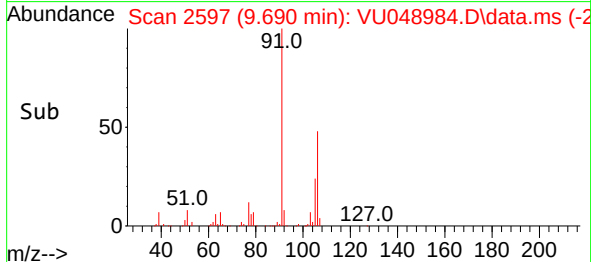
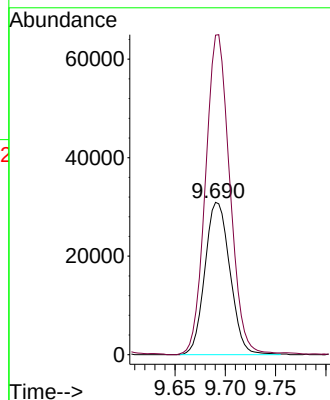
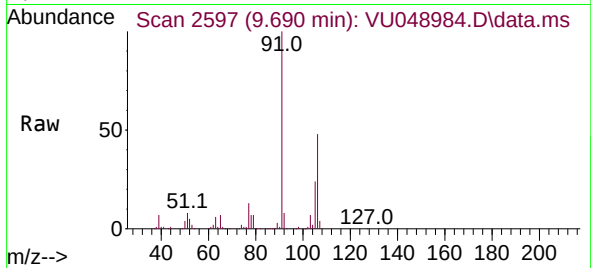




#53  
m,p-Xylene  
Concen: 12.166 ug/L  
RT: 9.690 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU048984.D  
Acq: 09 Jun 2022 18:29

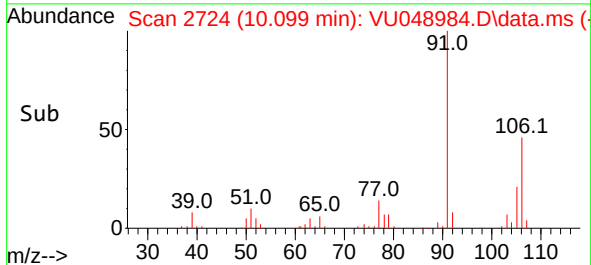
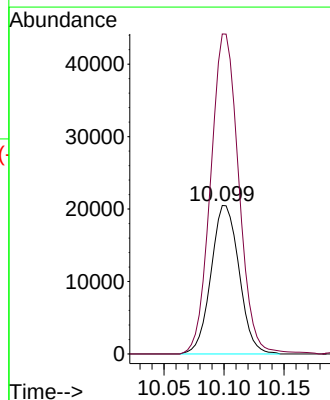
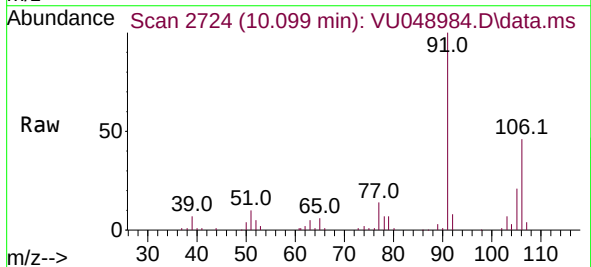
Instrument :  
MSVOA\_U  
ClientSampleId :  
EXYY0

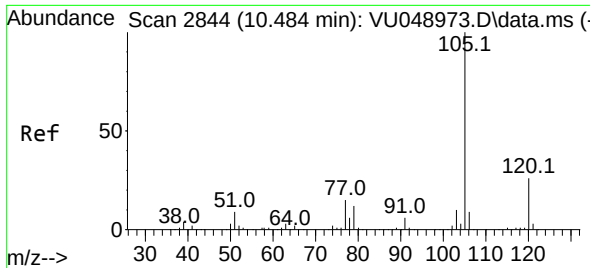
Tgt Ion:106 Resp: 53739  
Ion Ratio Lower Upper  
106 100  
91 209.8 141.8 263.4



#54  
o-Xylene  
Concen: 7.879 ug/L  
RT: 10.099 min Scan# 2724  
Delta R.T. -0.003 min  
Lab File: VU048984.D  
Acq: 09 Jun 2022 18:29

Tgt Ion:106 Resp: 33340  
Ion Ratio Lower Upper  
106 100  
91 215.4 150.1 278.9

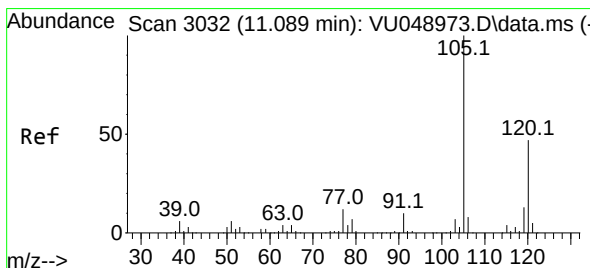
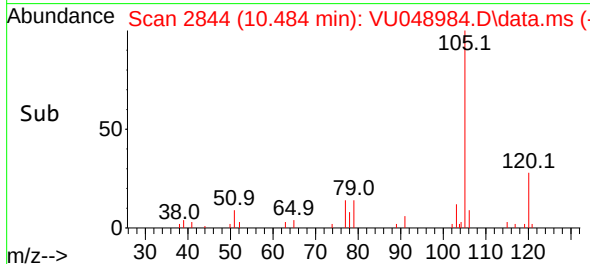
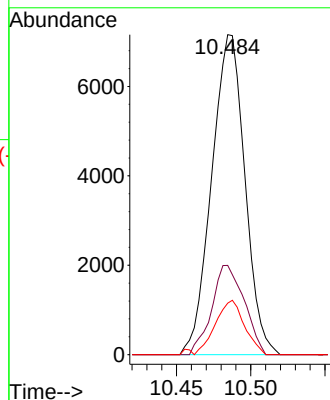
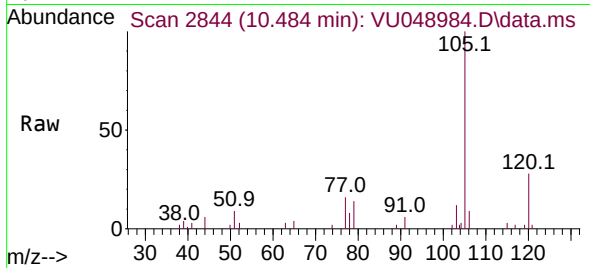




#61  
Isopropylbenzene  
Concen: 1.231 ug/L  
RT: 10.484 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VU048984.D  
Acq: 09 Jun 2022 18:29

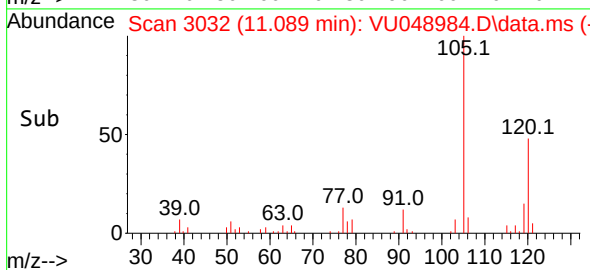
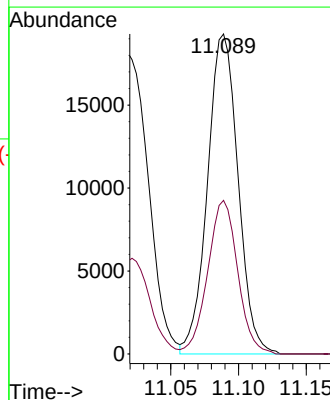
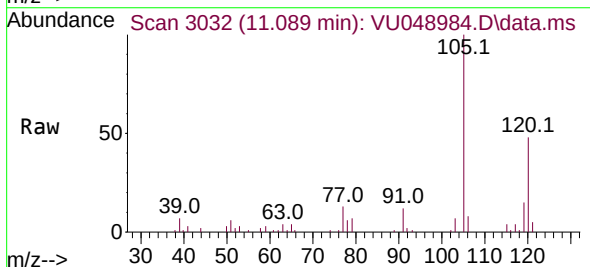
Instrument :  
MSVOA\_U  
ClientSampleId :  
EXYY0

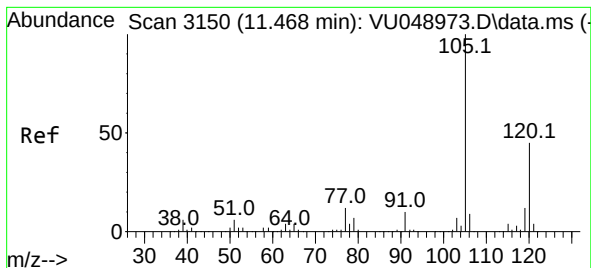
Tgt Ion:105 Resp: 11144  
Ion Ratio Lower Upper  
105 100  
120 27.3 21.0 31.6  
77 14.9 12.5 18.7



#62  
1,3,5-Trimethylbenzene  
Concen: 5.876 ug/L  
RT: 11.089 min Scan# 3032  
Delta R.T. -0.000 min  
Lab File: VU048984.D  
Acq: 09 Jun 2022 18:29

Tgt Ion:105 Resp: 30252  
Ion Ratio Lower Upper  
105 100  
120 47.1 38.5 57.7





#63

1,2,4-Trimethylbenzene

Concen: 20.136 ug/L

RT: 11.468 min Scan# 3150

Delta R.T. -0.000 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

Instrument :

MSVOA\_U

ClientSampleId :

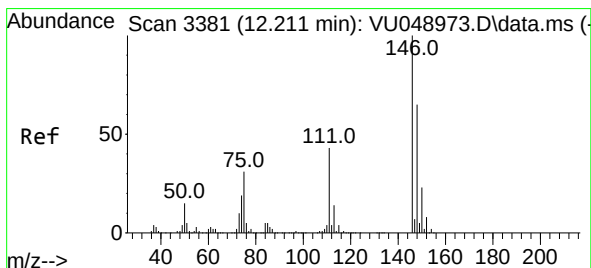
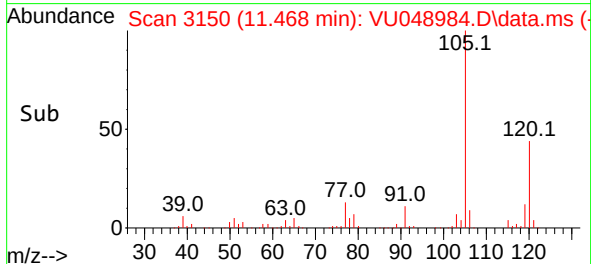
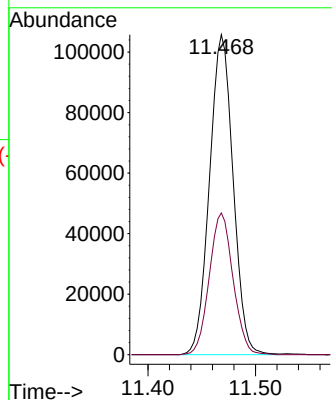
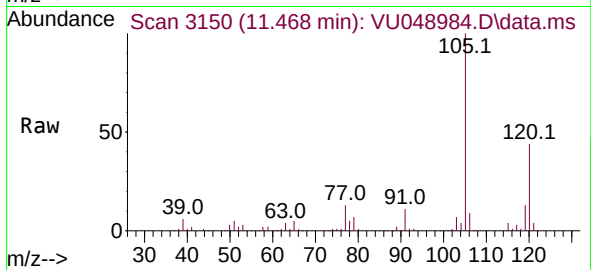
EXYY0

Tgt Ion:105 Resp: 161197

Ion Ratio Lower Upper

105 100

120 44.5 35.4 53.2



#67

1,2-Dichlorobenzene

Concen: 1.680 ug/L

RT: 12.214 min Scan# 3382

Delta R.T. 0.003 min

Lab File: VU048984.D

Acq: 09 Jun 2022 18:29

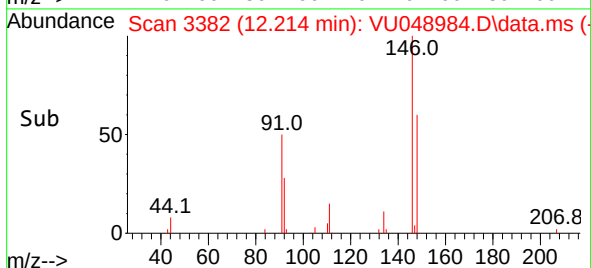
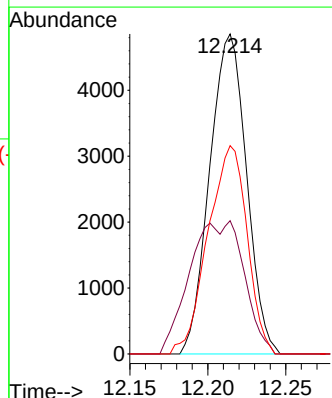
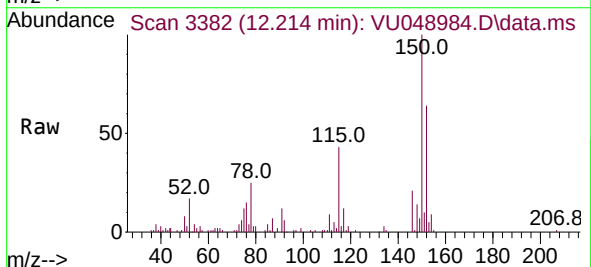
Tgt Ion:146 Resp: 7978

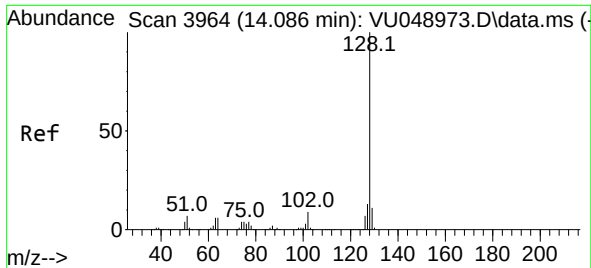
Ion Ratio Lower Upper

146 100

111 41.6 34.1 51.1

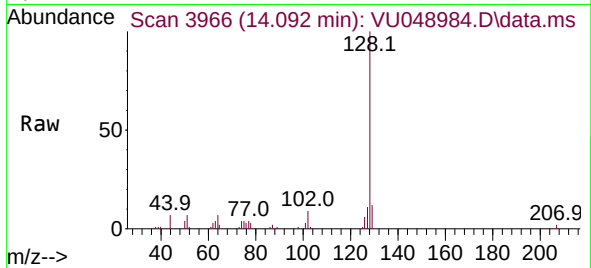
148 65.1 50.9 76.3





#71  
Naphthalene  
Concen: 2.271 ug/L  
RT: 14.092 min Scan# 3966  
Delta R.T. 0.006 min  
Lab File: VU048984.D  
Acq: 09 Jun 2022 18:29

Instrument :  
MSVOA\_U  
ClientSampleId :  
EXYY0



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 25210 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 11.5  | 10.6  | 16.0  |
| 129      | 10.6  | 8.8   | 13.2  |

