

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX032423\  
 Data File : VX034727.D  
 Acq On : 24 Mar 2023 17:38  
 Operator : JC/MD  
 Sample : 02065-03 50X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Mar 27 01:33:56 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X031023W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Mar 13 10:29:32 2023  
 Response via : Initial Calibration

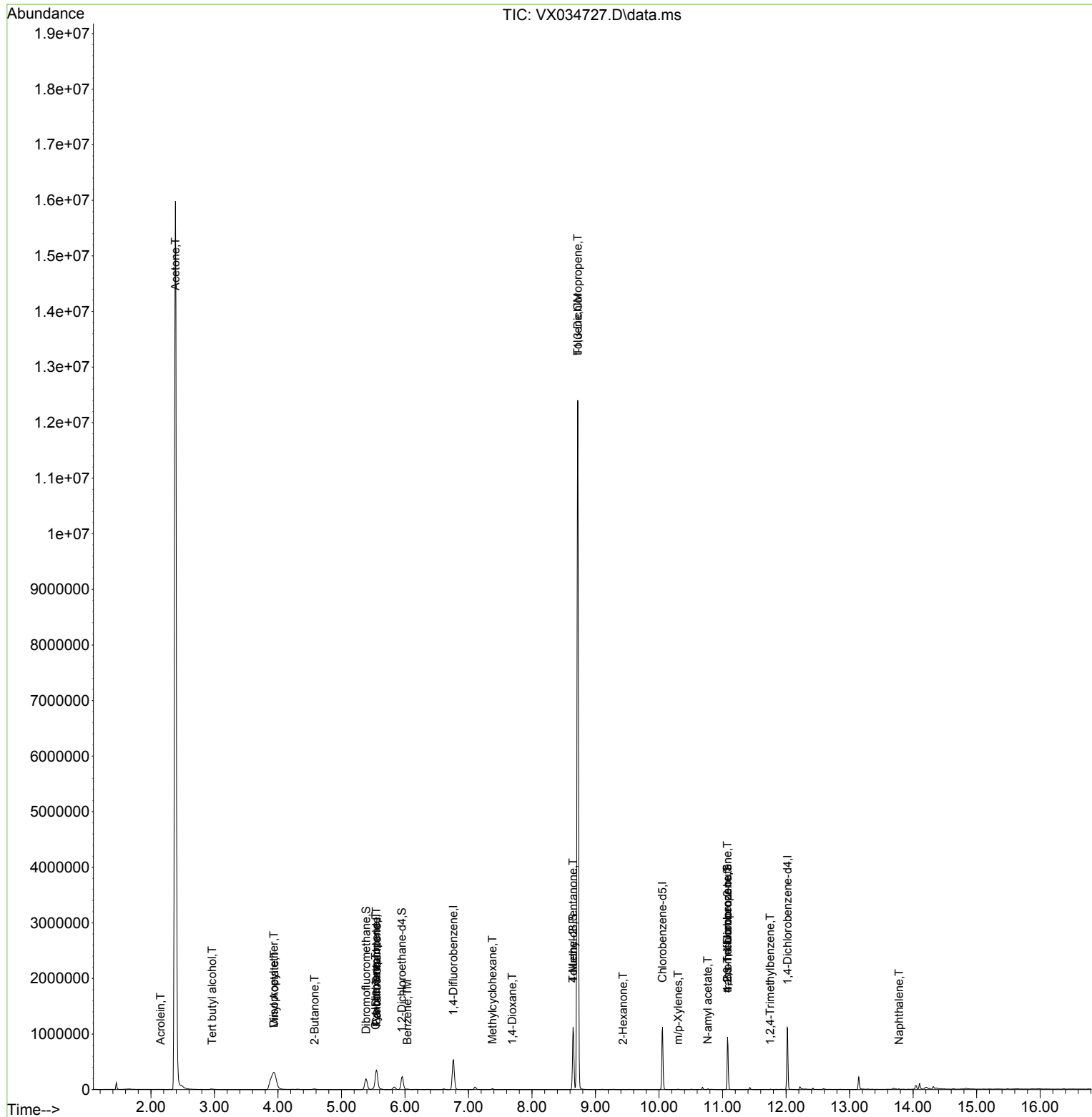
| Compound                      | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                         |                |      |                     |           |        |          |
| Internal Standards            |                |      |                     |           |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 318919              | 50.000    | ug/l   | 0.01     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 534298              | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 481236              | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 228924              | 50.000    | ug/l   | 0.00     |
|                               |                |      |                     |           |        |          |
| System Monitoring Compounds   |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 233101              | 50.241    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = 100.480% |           |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 169289              | 47.989    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 95.980%  |           |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 643835              | 48.890    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = 97.780%  |           |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 252520              | 47.472    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = 94.940%  |           |        |          |
|                               |                |      |                     |           |        |          |
| Target Compounds              |                |      |                     |           |        | Qvalue   |
| 3) Chloromethane              | 1.301          | 50   | 531                 | Below Cal | #      | 42       |
| 11) Tert butyl alcohol        | 2.965          | 59   | 17903               | 18.530    | ug/l # | 91       |
| 13) Acrolein                  | 2.154          | 56   | 213                 | 0.279     | ug/l # | 14       |
| 16) Acetone                   | 2.386          | 43   | 18374190            | 8407.328  | ug/l # | 66       |
| 22) Diisopropyl ether         | 3.934          | 45   | 51880               | 3.844     | ug/l # | 1        |
| 23) Vinyl Acetate             | 3.940          | 43   | 122655              | 11.942    | ug/l # | 72       |
| 25) 2-Butanone                | 4.574          | 43   | 7590                | 2.427     | ug/l   | 93       |
| 31) Cyclohexane               | 5.538          | 56   | 12163               | 1.869     | ug/l # | 23       |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 27480               | 5.072     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 34018               | 6.311     | ug/l # | 15       |
| 39) Methylcyclohexane         | 7.379          | 83   | 7217                | 1.113     | ug/l   | 96       |
| 40) Benzene                   | 6.038          | 78   | 10833               | 0.683     | ug/l   | 95       |
| 49) 1,4-Dioxane               | 7.690          | 88   | 2293                | 22.636    | ug/l # | 89       |
| 51) 4-Methyl-2-Pentanone      | 8.647          | 43   | 2900                | 0.499     | ug/l # | 1        |
| 52) Toluene                   | 8.720          | 92   | 4774683             | 486.556   | ug/l   | 91       |
| 53) t-1,3-Dichloropropene     | 8.720          | 75   | 61392               | 10.007    | ug/l # | 1        |
| 59) 2-Hexanone                | 9.433          | 43   | 2123                | 0.472     | ug/l   | 99       |
| 68) m/p-Xylenes               | 10.299         | 106  | 1935                | 0.266     | ug/l   | 95       |
| 74) N-amyl acetate            | 10.768         | 43   | 7946                | 0.938     | ug/l # | 54       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 132252              | 25.160    | ug/l # | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 132252              | 68.066    | ug/l # | 8        |
| 84) 1,2,4-Trimethylbenzene    | 11.750         | 105  | 3703                | 0.244     | ug/l   | 87       |
| 95) Naphthalene               | 13.780         | 128  | 4233                | 0.251     | ug/l   | 98       |
| -----                         |                |      |                     |           |        |          |

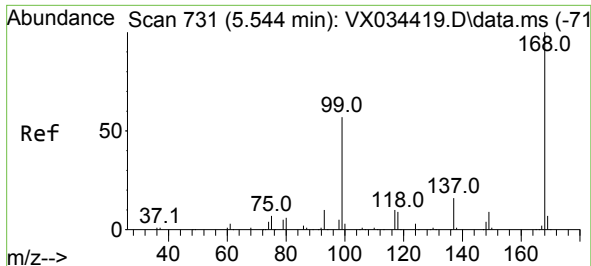
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Quant Title : SW846 8260  
QLast Update : Mon Mar 13 10:29:32 2023  
Response via : Initial Calibration

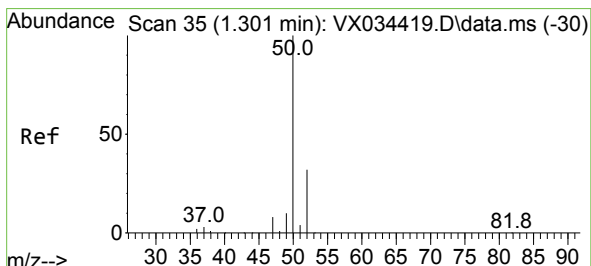
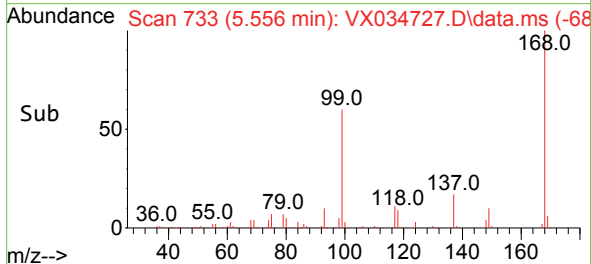
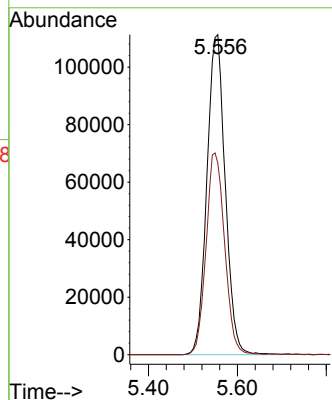
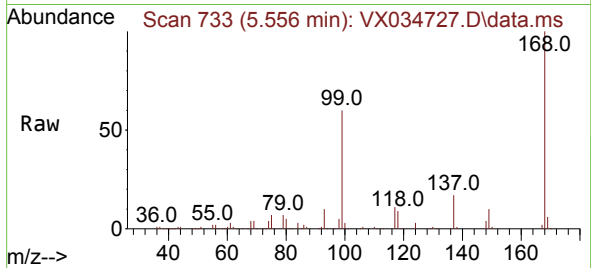




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.012 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

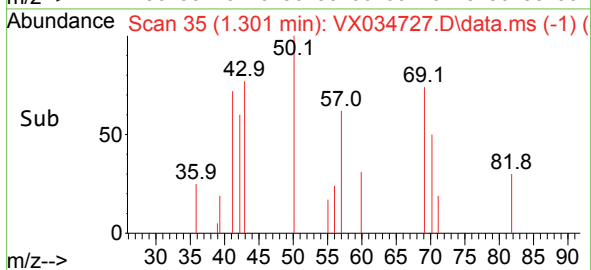
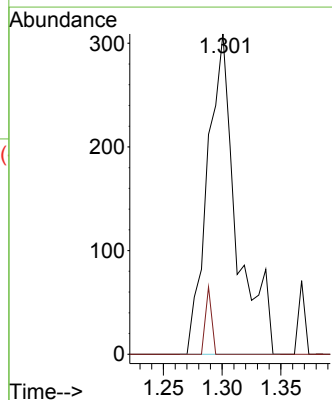
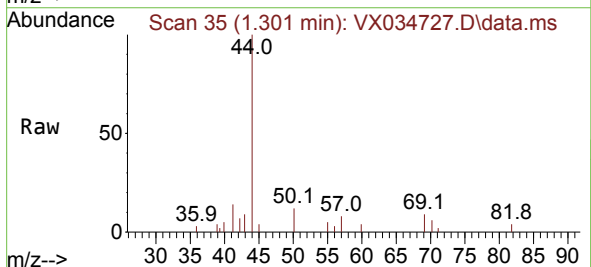
Instrument :  
MSVOA\_X  
ClientSampleId :

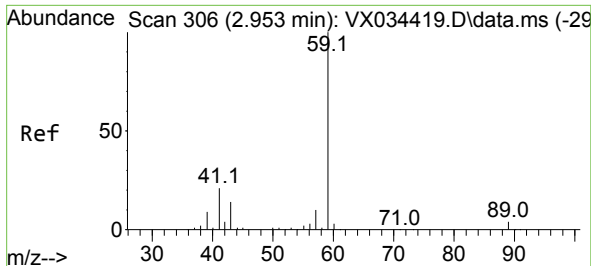
Tgt Ion:168 Resp: 318919  
Ion Ratio Lower Upper  
168 100  
99 59.8 45.7 68.5



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.301 min Scan# 35  
Delta R.T. -0.000 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

Tgt Ion: 50 Resp: 531  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.9 38.9#

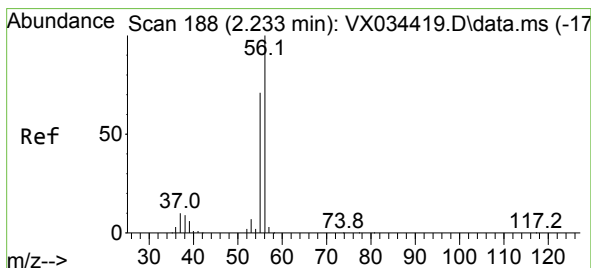
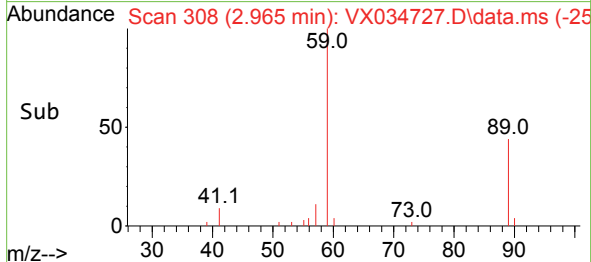
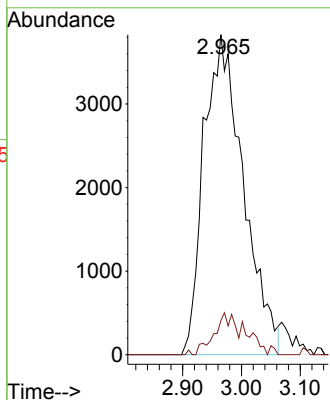
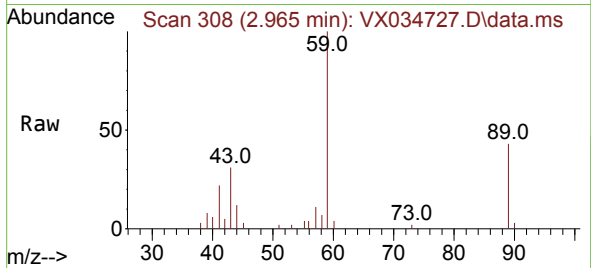




#11  
Tert butyl alcohol  
Concen: 18.530 ug/l  
RT: 2.965 min Scan# 306  
Delta R.T. 0.012 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

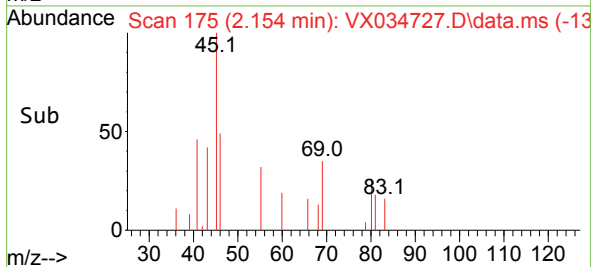
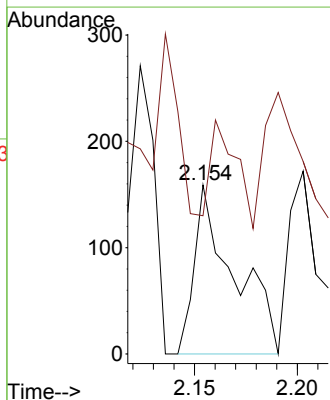
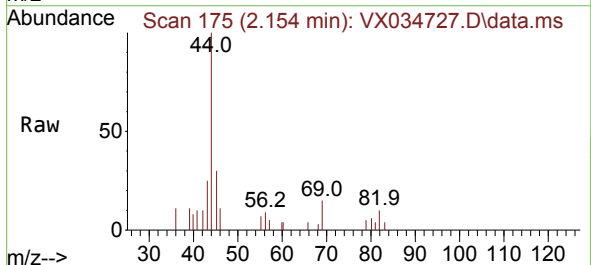
Instrument :  
MSVOA\_X  
ClientSampleId :

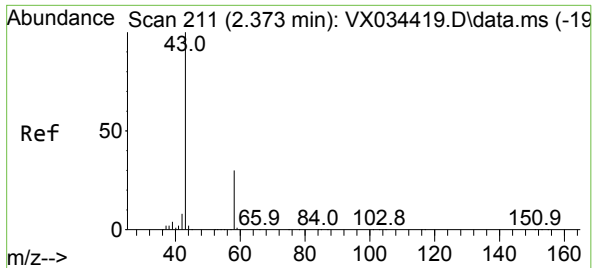
Tgt Ion: 59 Resp: 17903  
Ion Ratio Lower Upper  
59 100  
57 6.8 8.1 12.1#



#13  
Acrolein  
Concen: 0.279 ug/l  
RT: 2.154 min Scan# 175  
Delta R.T. -0.079 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

Tgt Ion: 56 Resp: 213  
Ion Ratio Lower Upper  
56 100  
55 0.0 56.6 85.0#

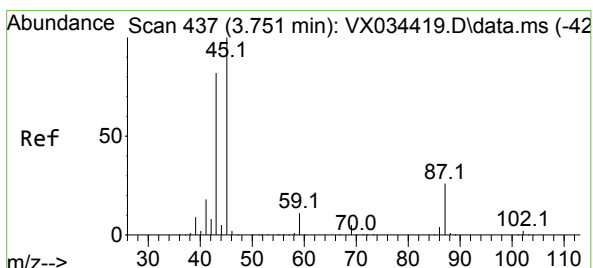
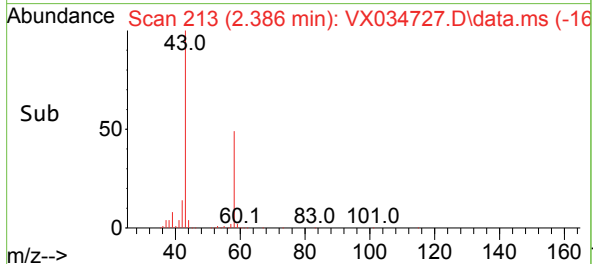
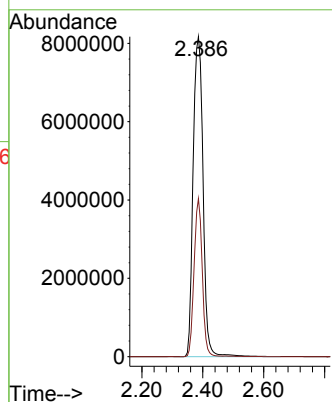
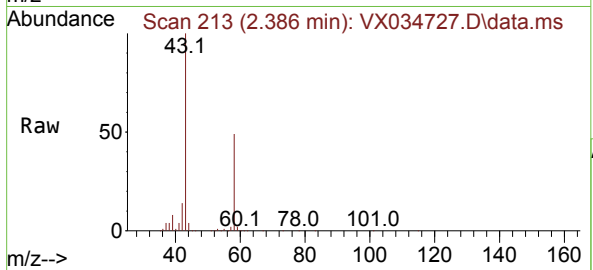




#16  
Acetone  
Concen: 8407.328 ug/l  
RT: 2.386 min Scan# 211  
Delta R.T. 0.012 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

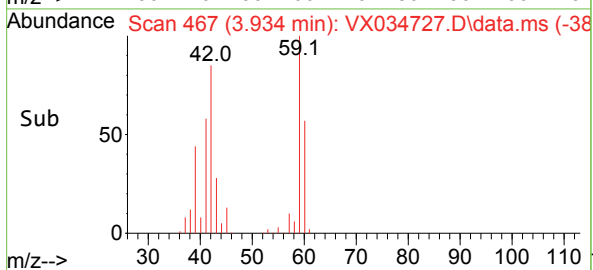
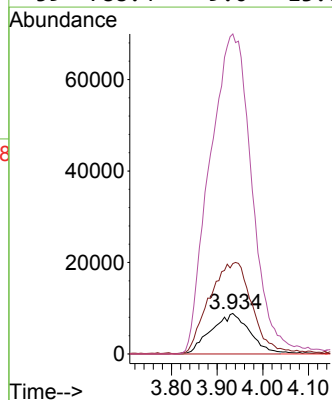
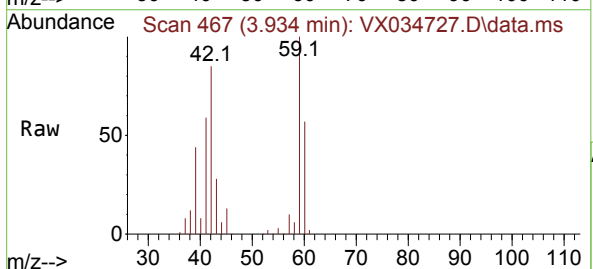
Instrument :  
MSVOA\_X  
ClientSampleId :

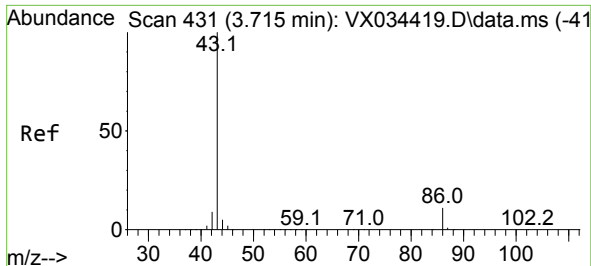
Tgt Ion: 43 Resp:18374190  
Ion Ratio Lower Upper  
43 100  
58 49.4 24.7 37.1#



#22  
Diisopropyl ether  
Concen: 3.844 ug/l  
RT: 3.934 min Scan# 467  
Delta R.T. 0.183 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

Tgt Ion: 45 Resp: 51880  
Ion Ratio Lower Upper  
45 100  
43 221.2 65.4 98.2#  
87 0.0 20.6 31.0#  
59 788.4 9.0 13.6#

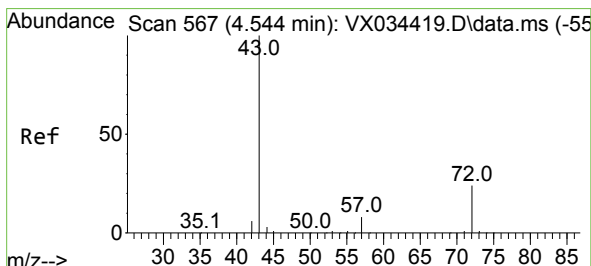
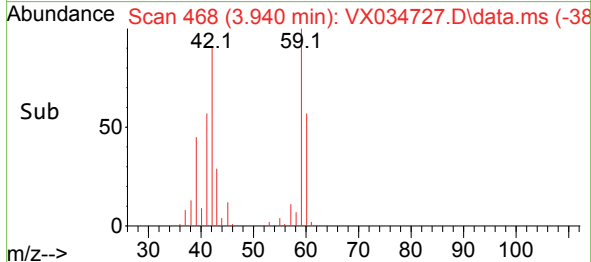
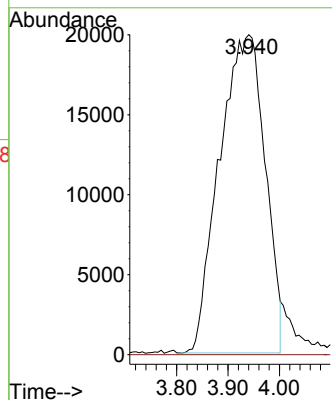
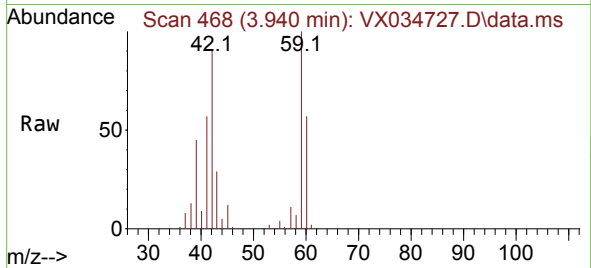




#23  
 Vinyl Acetate  
 Concen: 11.942 ug/l  
 RT: 3.940 min Scan# 41  
 Delta R.T. 0.226 min  
 Lab File: VX034727.D  
 Acq: 24 Mar 2023 17:38

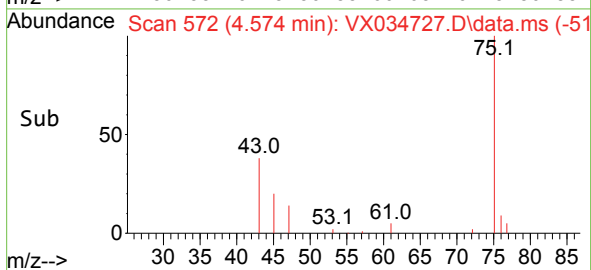
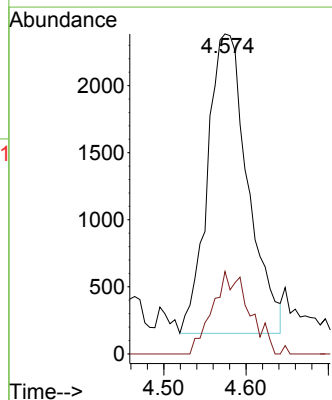
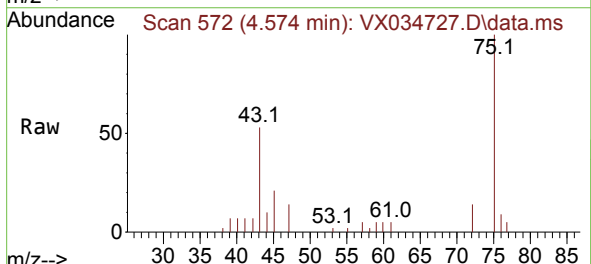
Instrument :  
 MSVOA\_X  
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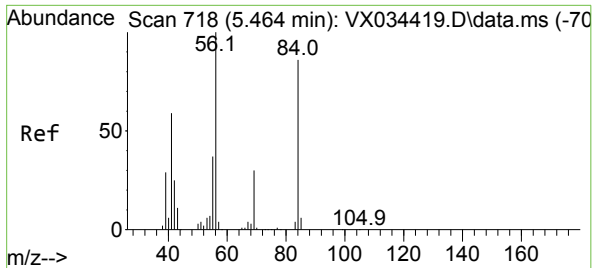
Tgt Ion: 43 Resp: 122655  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.5 12.7#



#25  
 2-Butanone  
 Concen: 2.427 ug/l  
 RT: 4.574 min Scan# 572  
 Delta R.T. 0.031 min  
 Lab File: VX034727.D  
 Acq: 24 Mar 2023 17:38

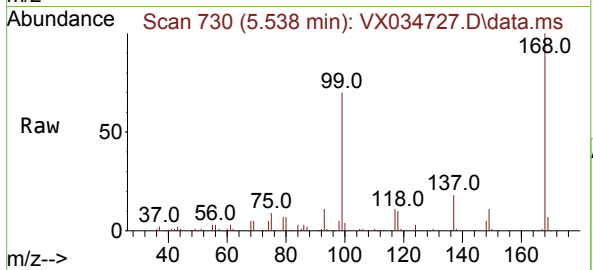
Tgt Ion: 43 Resp: 7590  
 Ion Ratio Lower Upper  
 43 100  
 72 27.5 19.3 28.9



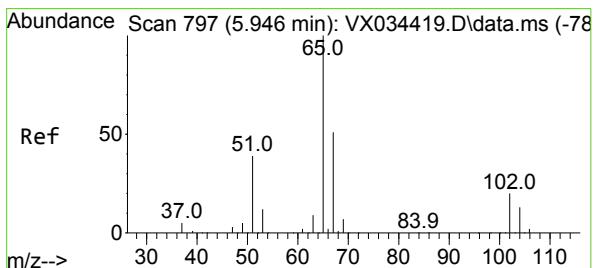
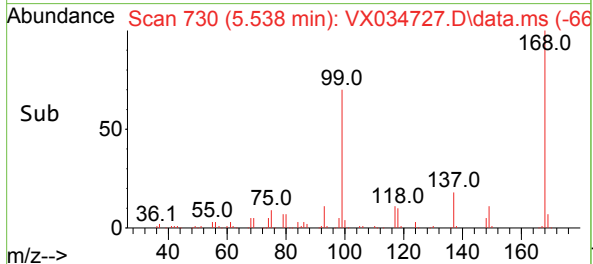
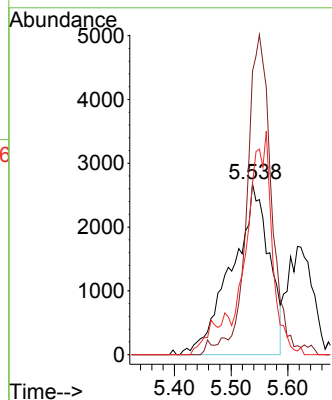


#31  
Cyclohexane  
Concen: 1.869 ug/l  
RT: 5.538 min Scan# 718  
Delta R.T. 0.073 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

Instrument :  
MSVOA\_X  
ClientSampleId :

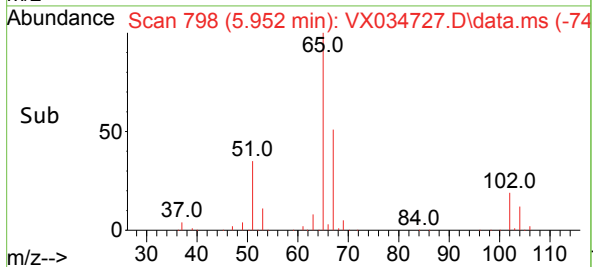
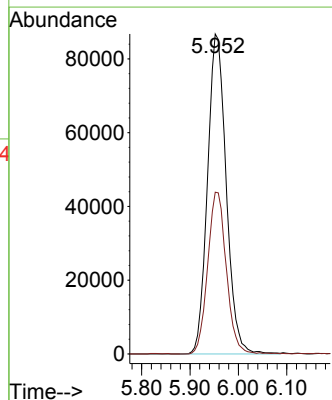
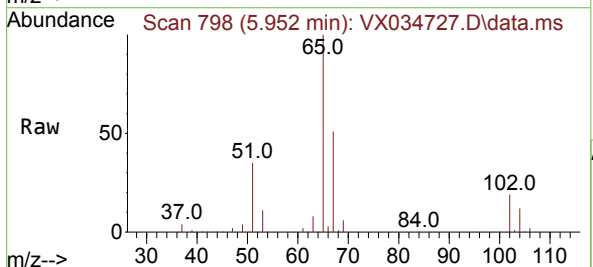


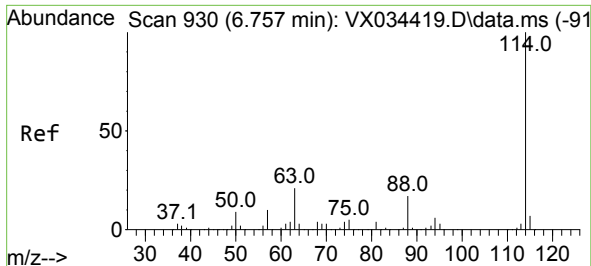
Tgt Ion: 56 Resp: 12163  
Ion Ratio Lower Upper  
56 100  
69 165.7 23.7 35.5#  
84 100.0 68.5 102.7



#33  
1,2-Dichloroethane-d4  
Concen: 50.241 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.006 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

Tgt Ion: 65 Resp: 233101  
Ion Ratio Lower Upper  
65 100  
67 50.3 0.0 104.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX034727.D

Acq: 24 Mar 2023 17:38

Instrument :

MSVOA\_X

ClientSampleId :

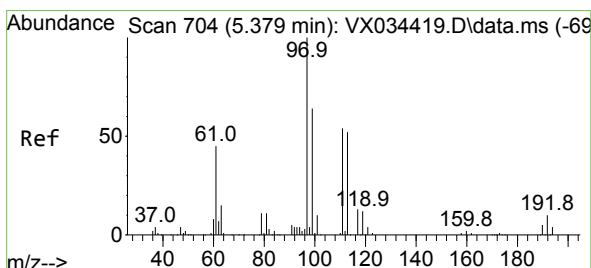
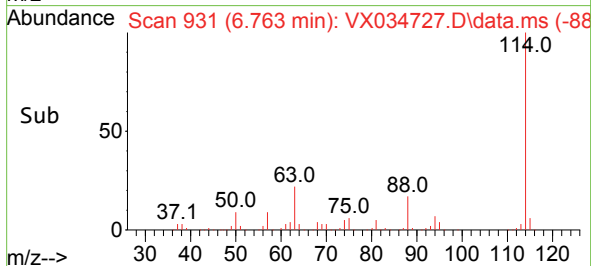
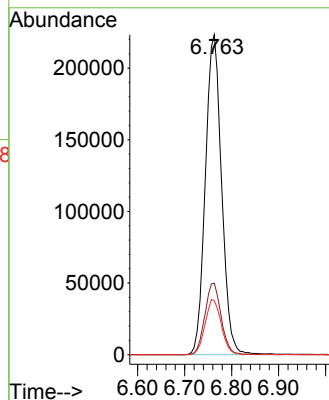
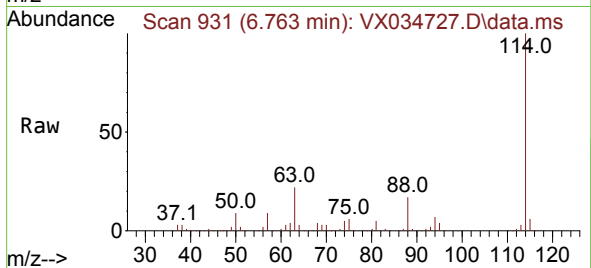
Tgt Ion:114 Resp: 534298

Ion Ratio Lower Upper

114 100

63 22.3 0.0 42.2

88 16.9 0.0 33.2



#35

Dibromofluoromethane

Concen: 47.989 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.006 min

Lab File: VX034727.D

Acq: 24 Mar 2023 17:38

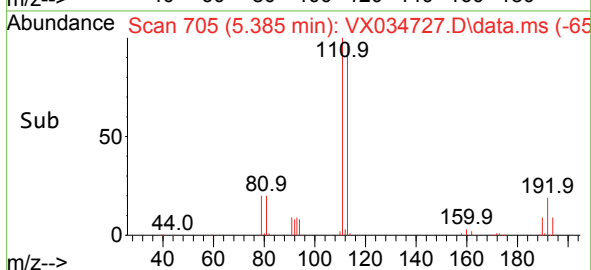
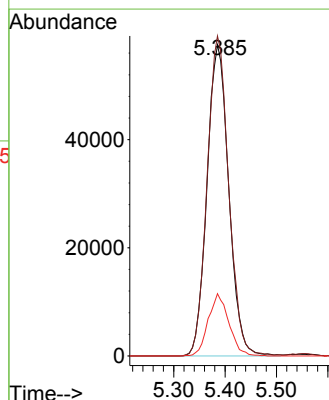
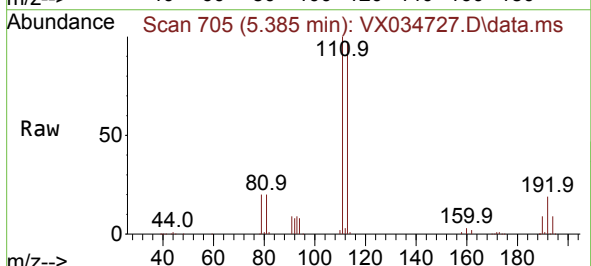
Tgt Ion:113 Resp: 169289

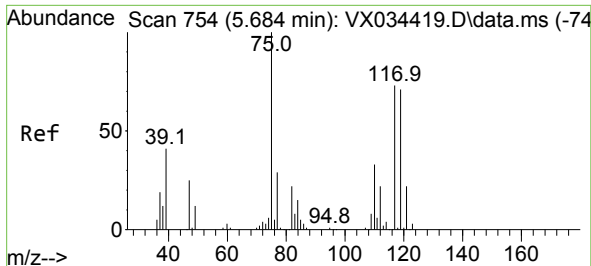
Ion Ratio Lower Upper

113 100

111 101.8 83.7 125.5

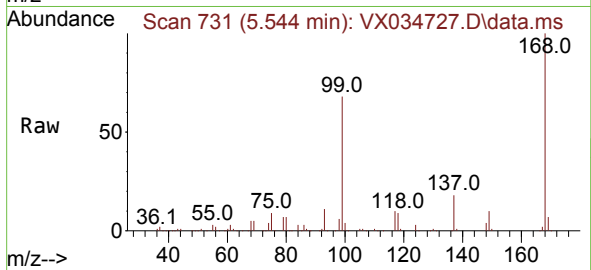
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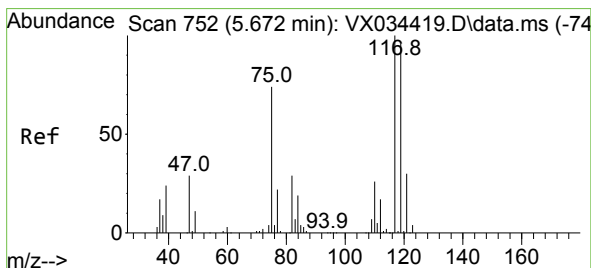
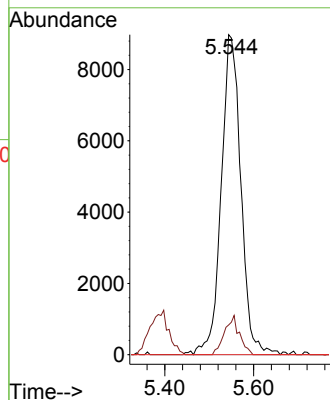
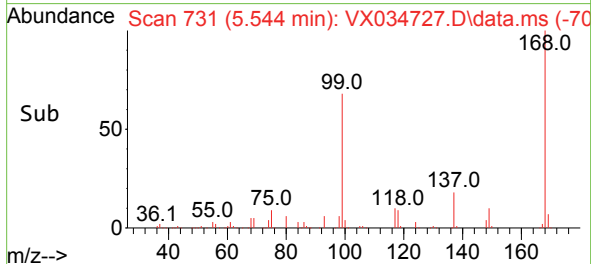


#36  
1,1-Dichloropropene  
Concen: 5.072 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.140 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

Instrument :  
MSVOA\_X  
ClientSampleId :

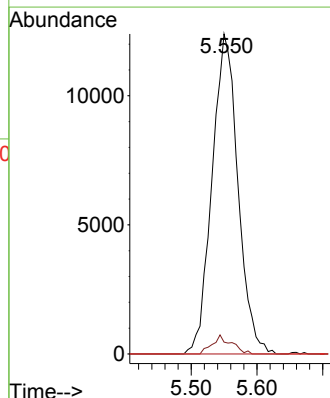
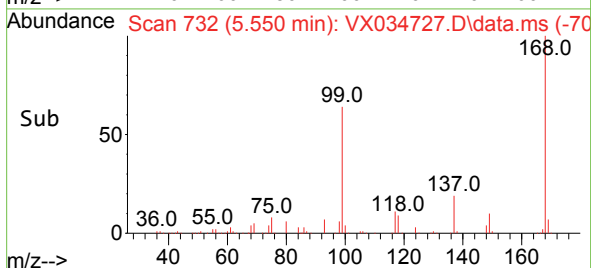
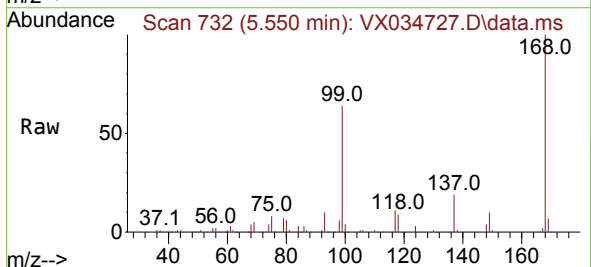


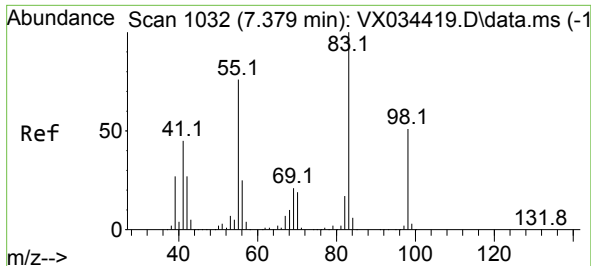
Tgt Ion: 75 Resp: 27480  
Ion Ratio Lower Upper  
75 100  
110 9.2 17.5 52.5#  
77 0.0 24.3 36.5#



#38  
Carbon Tetrachloride  
Concen: 6.311 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.122 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

Tgt Ion: 117 Resp: 34018  
Ion Ratio Lower Upper  
117 100  
119 3.7 76.6 114.8#  
121 0.0 23.8 35.6#





#39

Methylcyclohexane

Concen: 1.113 ug/l

RT: 7.379 min Scan# 1032

Delta R.T. 0.000 min

Lab File: VX034727.D

Acq: 24 Mar 2023 17:38

Instrument :

MSVOA\_X

ClientSampleId :

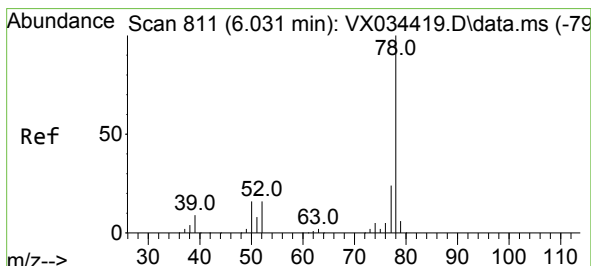
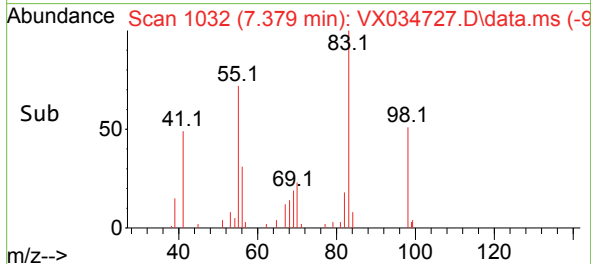
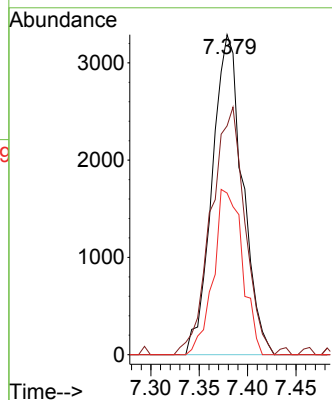
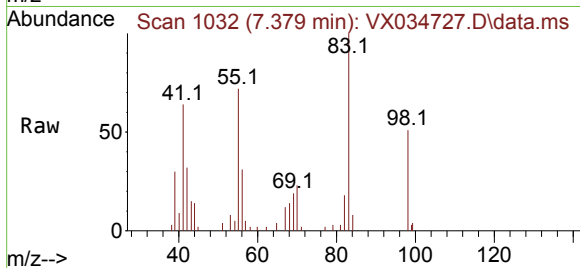
Tgt Ion: 83 Resp: 7217

Ion Ratio Lower Upper

83 100

55 69.8 60.5 90.7

98 50.5 40.4 60.6



#40

Benzene

Concen: 0.683 ug/l

RT: 6.038 min Scan# 812

Delta R.T. 0.006 min

Lab File: VX034727.D

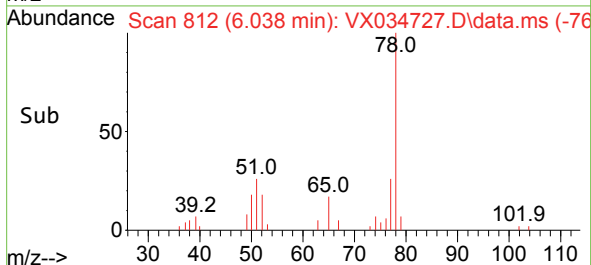
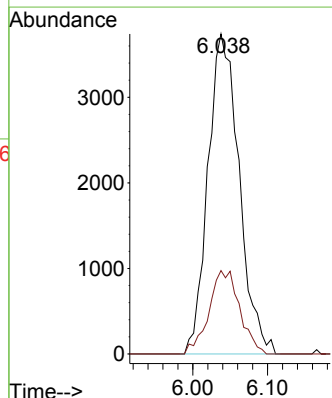
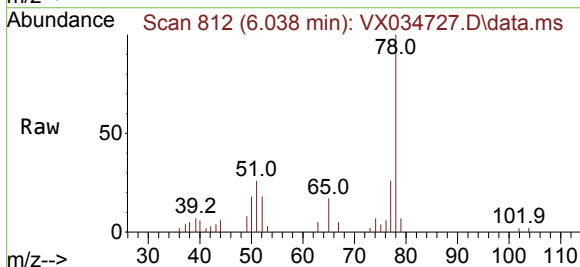
Acq: 24 Mar 2023 17:38

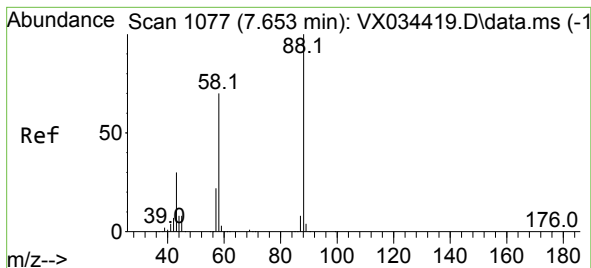
Tgt Ion: 78 Resp: 10833

Ion Ratio Lower Upper

78 100

77 26.0 19.0 28.4





#49

1,4-Dioxane

Concen: 22.636 ug/l

RT: 7.690 min Scan# 1083

Delta R.T. 0.037 min

Lab File: VX034727.D

Acq: 24 Mar 2023 17:38

Instrument :

MSVOA\_X

ClientSampleId :

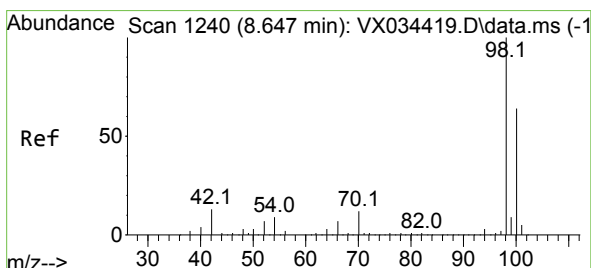
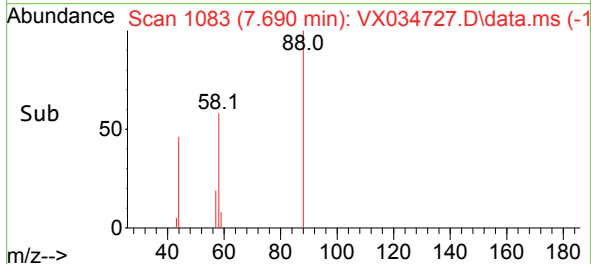
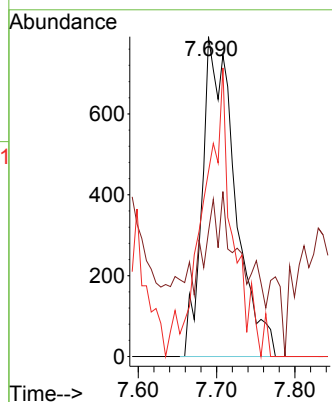
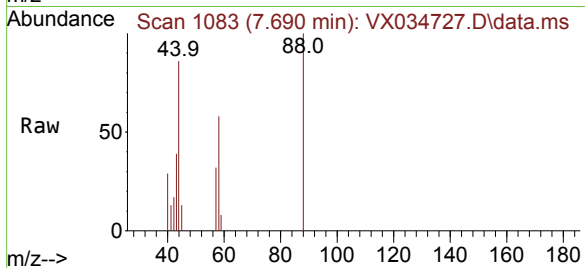
Tgt Ion: 88 Resp: 2293

Ion Ratio Lower Upper

88 100

43 23.5 27.7 41.5#

58 76.3 56.8 85.2



#50

Toluene-d8

Concen: 48.890 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX034727.D

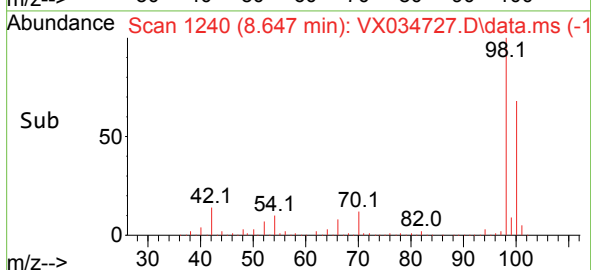
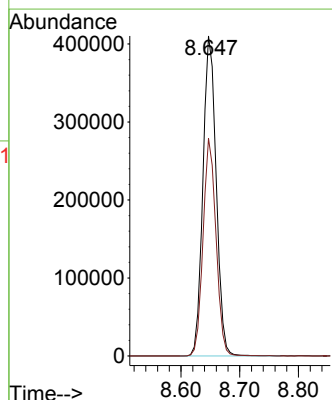
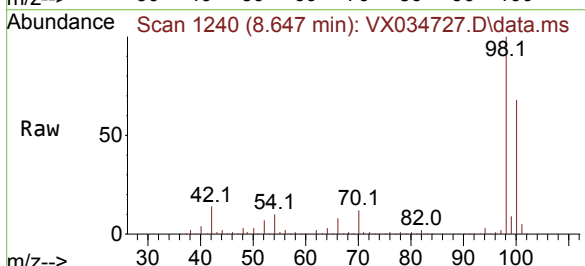
Acq: 24 Mar 2023 17:38

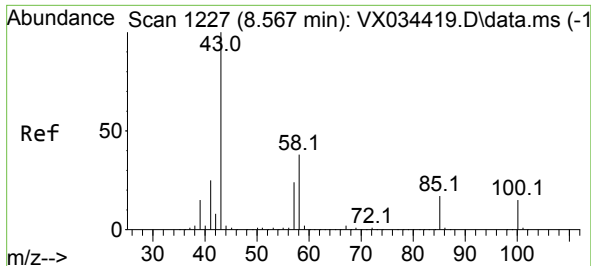
Tgt Ion: 98 Resp: 643835

Ion Ratio Lower Upper

98 100

100 66.5 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 0.499 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.079 min

Lab File: VX034727.D

Acq: 24 Mar 2023 17:38

Instrument :

MSVOA\_X

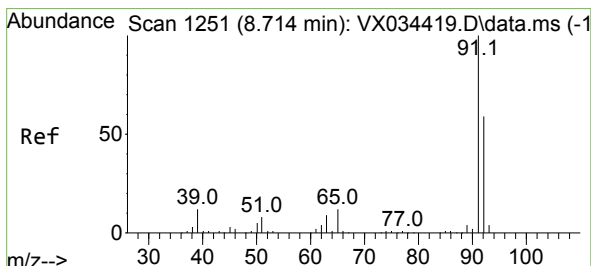
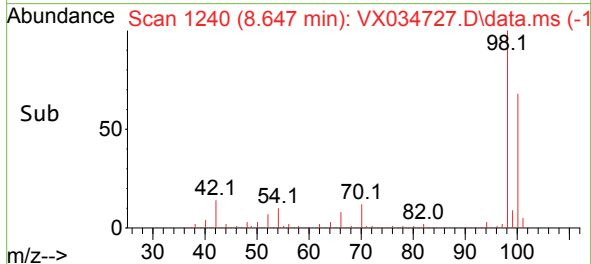
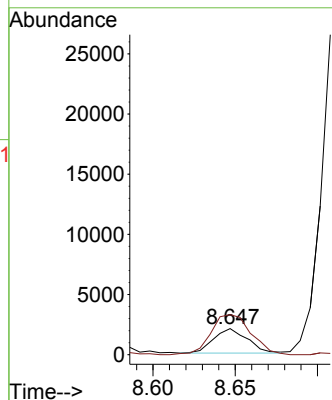
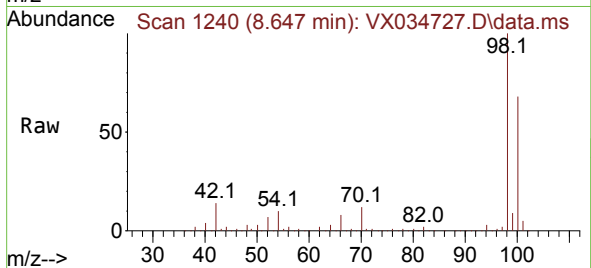
ClientSampleId :

Tgt Ion: 43 Resp: 2900

Ion Ratio Lower Upper

43 100

58 194.1 30.6 46.0#



#52

Toluene

Concen: 486.556 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.006 min

Lab File: VX034727.D

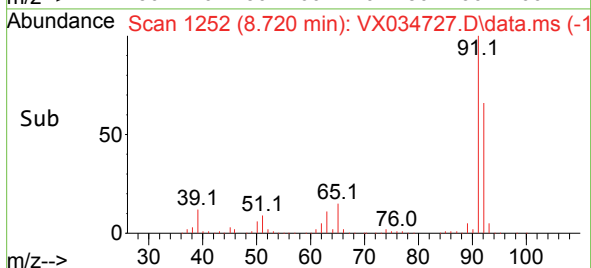
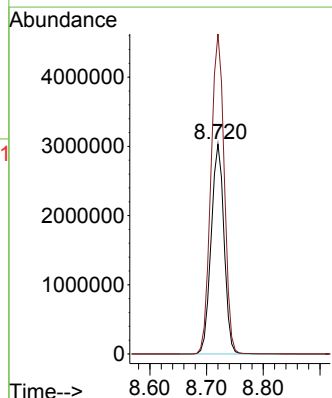
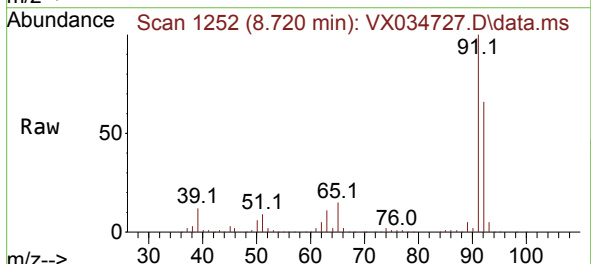
Acq: 24 Mar 2023 17:38

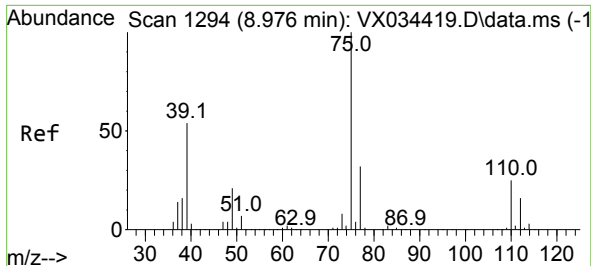
Tgt Ion: 92 Resp: 4774683

Ion Ratio Lower Upper

92 100

91 158.0 136.8 205.2

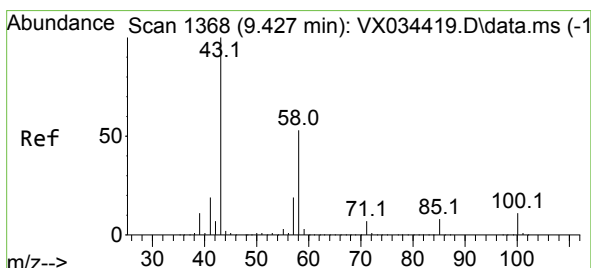
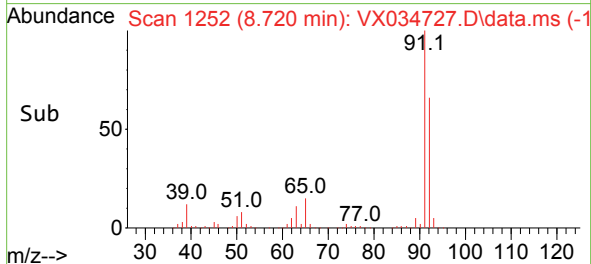
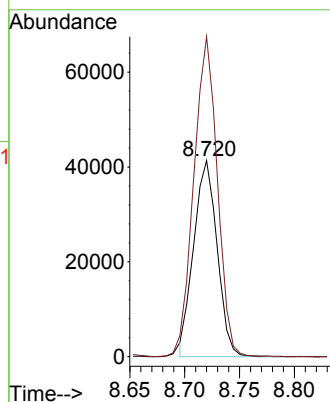
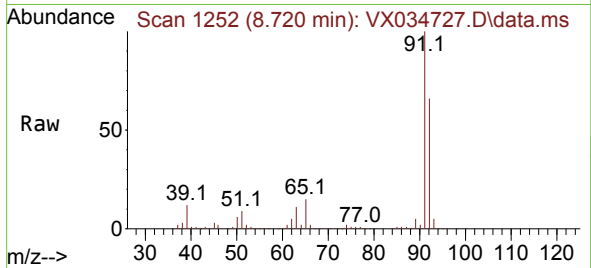




#53  
t-1,3-Dichloropropene  
Concen: 10.007 ug/l  
RT: 8.720 min Scan# 11  
Delta R.T. -0.256 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

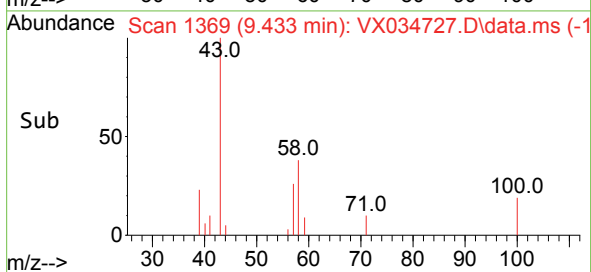
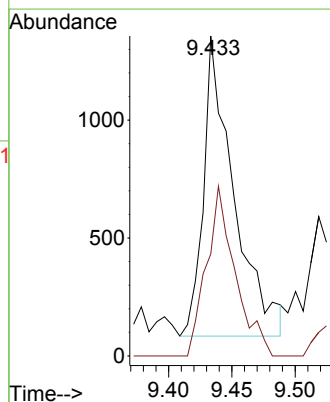
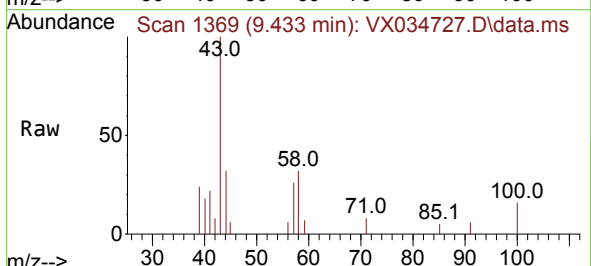
Instrument :  
MSVOA\_X  
ClientSampleId :

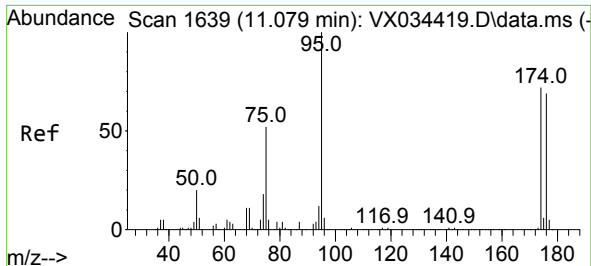
Tgt Ion: 75 Resp: 61392  
Ion Ratio Lower Upper  
75 100  
77 162.8 25.4 38.2#



#59  
2-Hexanone  
Concen: 0.472 ug/l  
RT: 9.433 min Scan# 1369  
Delta R.T. 0.006 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

Tgt Ion: 43 Resp: 2123  
Ion Ratio Lower Upper  
43 100  
58 53.5 26.3 78.9

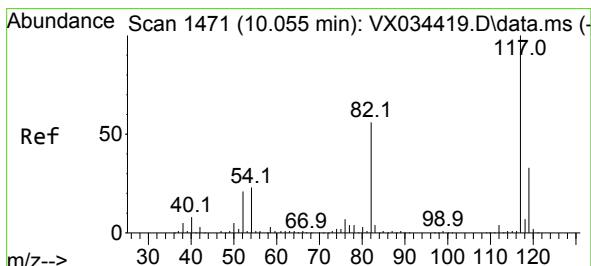
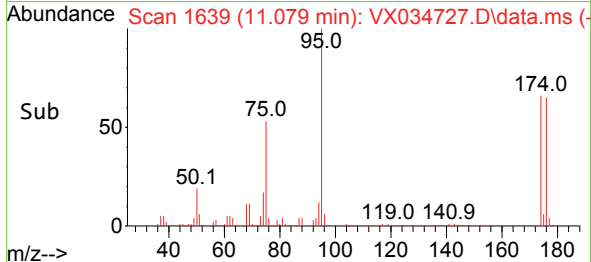
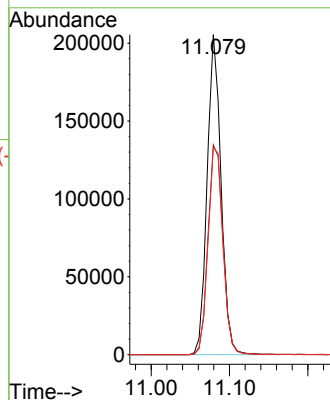
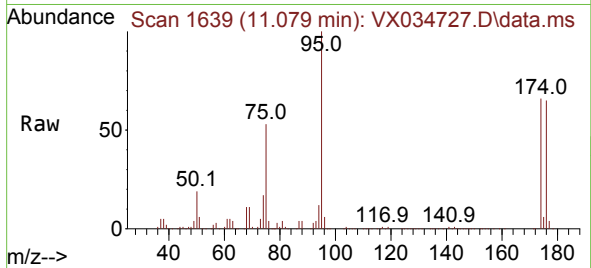




#62  
4-Bromofluorobenzene  
Concen: 47.472 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

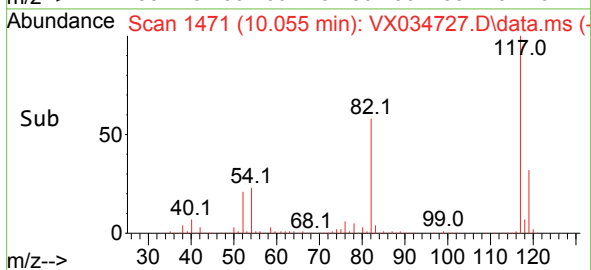
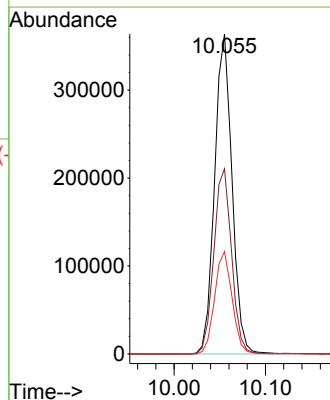
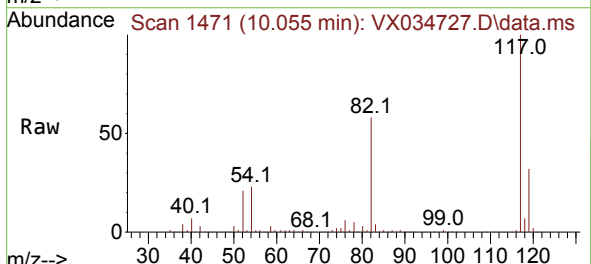
Instrument :  
MSVOA\_X  
ClientSampleId :

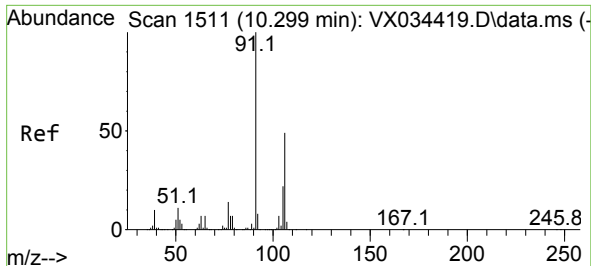
Tgt Ion: 95 Resp: 252520  
Ion Ratio Lower Upper  
95 100  
174 70.6 0.0 147.4  
176 69.1 0.0 140.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

Tgt Ion: 117 Resp: 481236  
Ion Ratio Lower Upper  
117 100  
82 57.8 45.0 67.4  
119 32.0 26.0 39.0

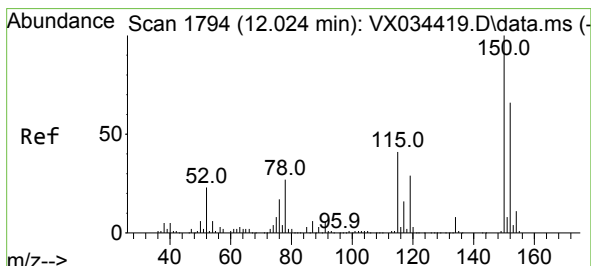
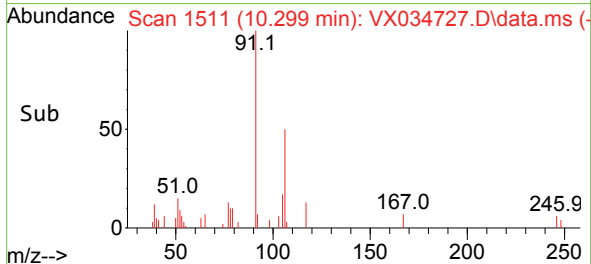
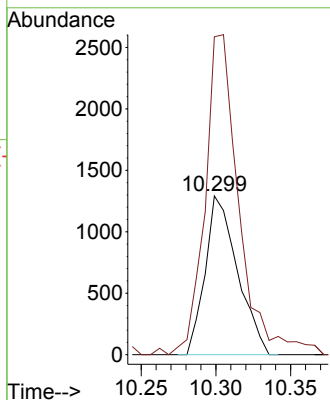
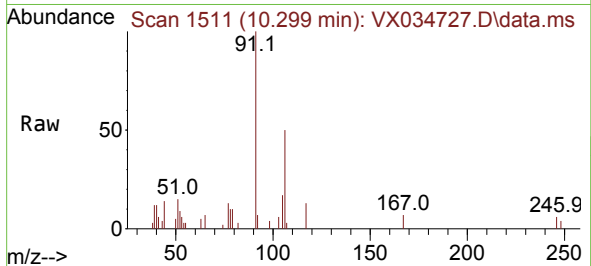




#68  
m/p-Xylenes  
Concen: 0.266 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. 0.000 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

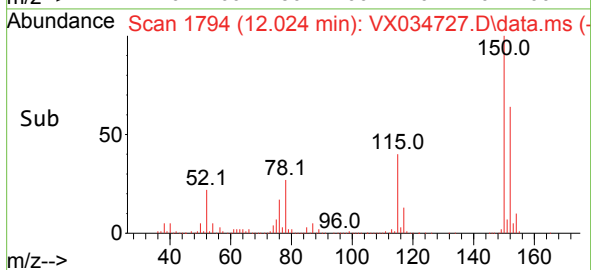
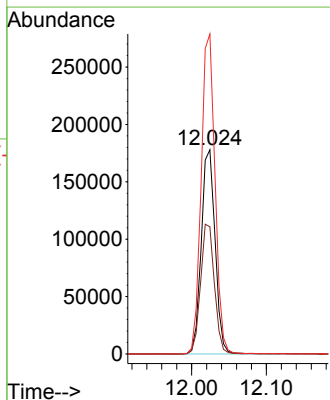
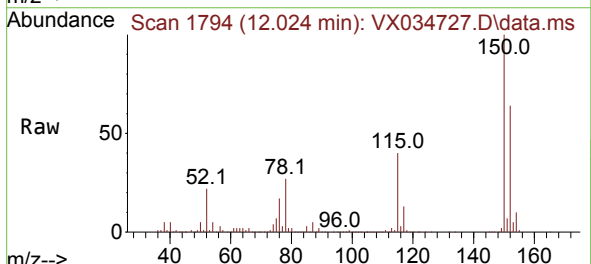
Instrument :  
MSVOA\_X  
ClientSampleId :

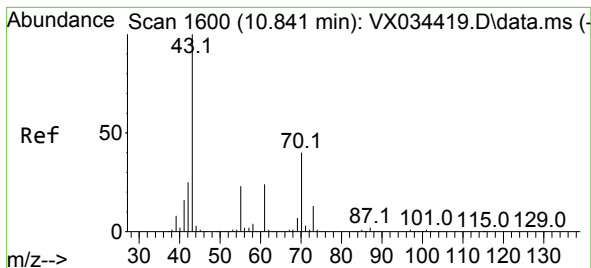
Tgt Ion:106 Resp: 1935  
Ion Ratio Lower Upper  
106 100  
91 213.2 164.0 246.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

Tgt Ion:152 Resp: 228924  
Ion Ratio Lower Upper  
152 100  
115 63.6 45.0 135.0  
150 157.2 0.0 352.4





#74

N-amy1 acetate

Concen: 0.938 ug/l

RT: 10.768 min Scan# 1

Delta R.T. -0.073 min

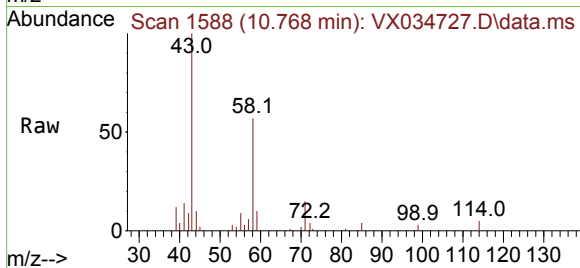
Lab File: VX034727.D

Acq: 24 Mar 2023 17:38

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 43 Resp: 7946

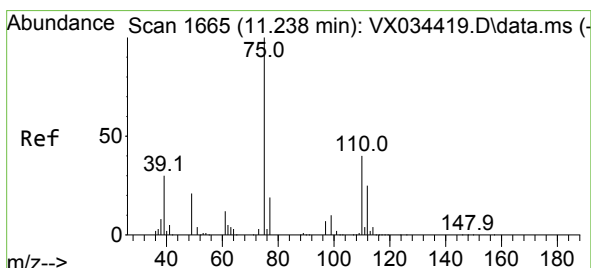
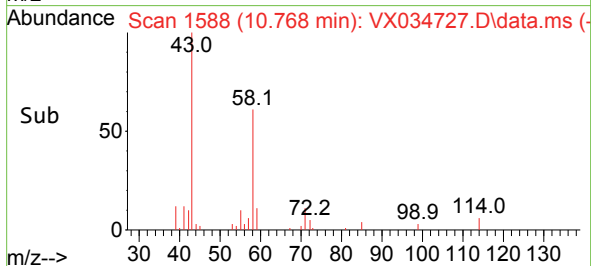
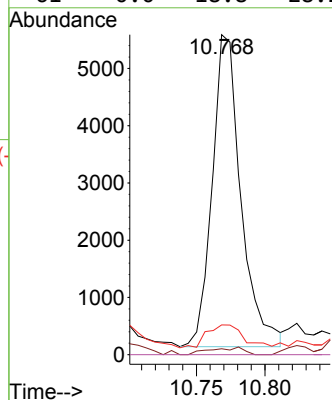
Ion Ratio Lower Upper

43 100

70 2.8 32.1 48.1#

55 13.7 18.3 27.5#

61 0.0 18.8 28.2#



#76

1,2,3-Trichloropropane

Concen: 25.160 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX034727.D

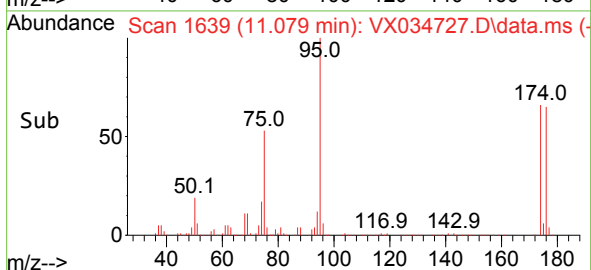
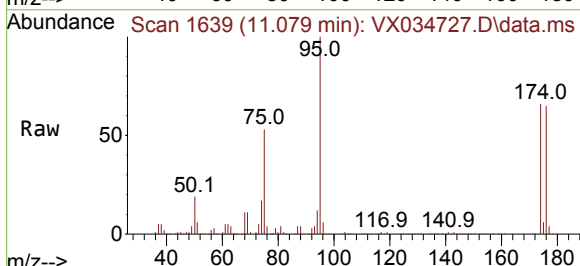
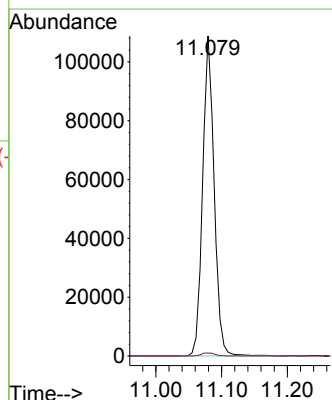
Acq: 24 Mar 2023 17:38

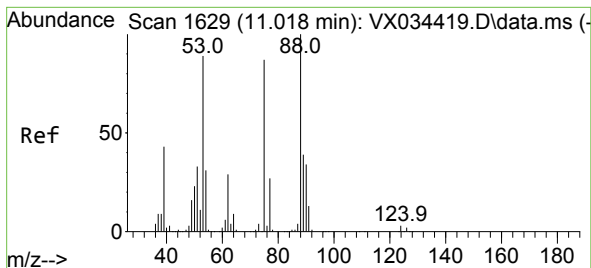
Tgt Ion: 75 Resp: 132252

Ion Ratio Lower Upper

75 100

77 1.1 21.6 64.8#

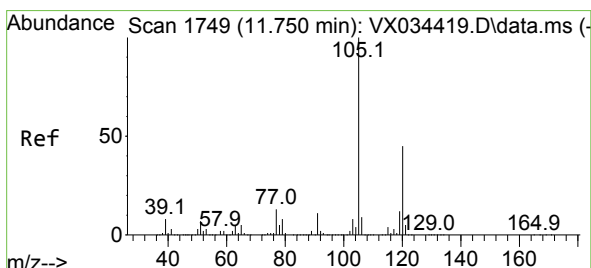
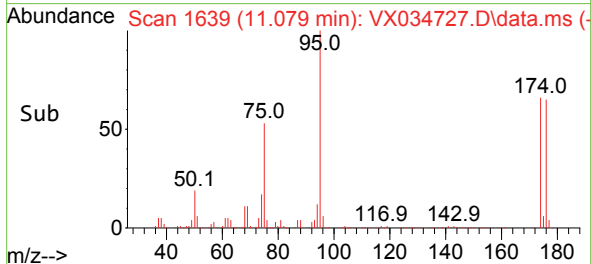
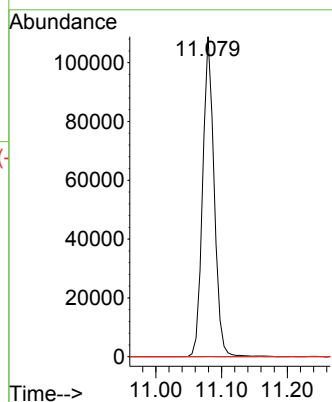
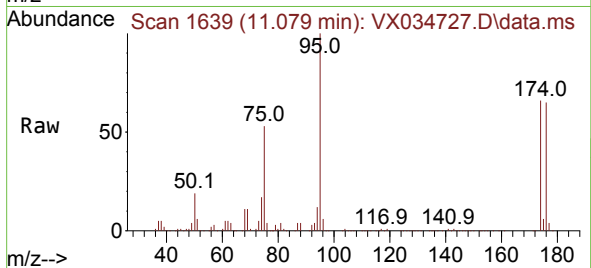




#81  
trans-1,4-Dichloro-2-butene  
Concen: 68.066 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

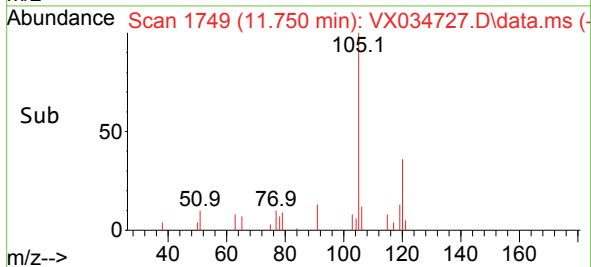
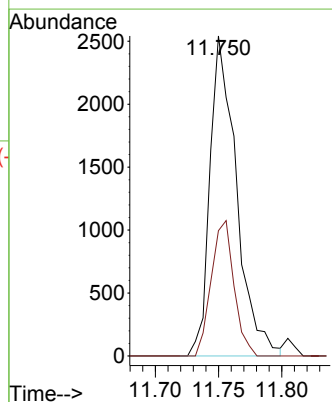
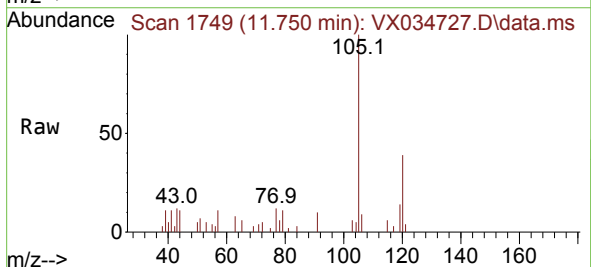
Instrument :  
MSVOA\_X  
ClientSampleId :

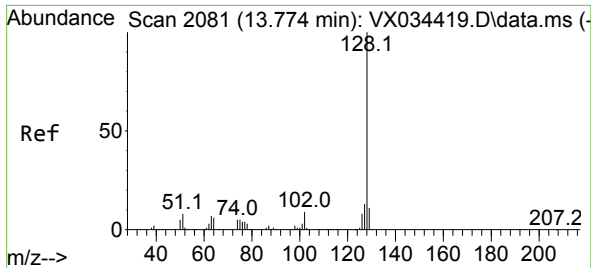
Tgt Ion: 75 Resp: 132252  
Ion Ratio Lower Upper  
75 100  
53 0.0 82.6 124.0#  
89 0.0 36.9 55.3#



#84  
1,2,4-Trimethylbenzene  
Concen: 0.244 ug/l  
RT: 11.750 min Scan# 1749  
Delta R.T. 0.000 min  
Lab File: VX034727.D  
Acq: 24 Mar 2023 17:38

Tgt Ion: 105 Resp: 3703  
Ion Ratio Lower Upper  
105 100  
120 36.3 22.4 67.0





#95

Naphthalene

Concen: 0.251 ug/l

RT: 13.780 min Scan# 20

Delta R.T. 0.006 min

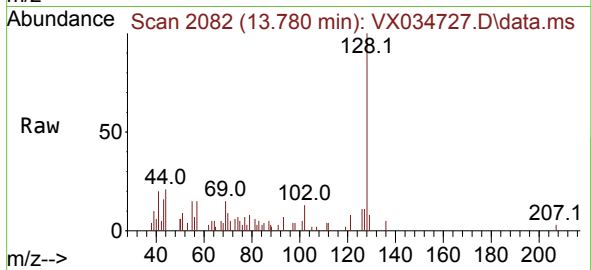
Lab File: VX034727.D

Acq: 24 Mar 2023 17:38

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion:128 Resp: 4233

Ion Ratio Lower Upper

128 100

127 14.1 10.2 15.4

129 10.5 8.6 13.0

