

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101424\  
 Data File : VX043374.D  
 Acq On : 14 Oct 2024 11:49  
 Operator : JC/MD  
 Sample : P4393-01 20X  
 Misc : 1.31g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 15 01:43:02 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100124W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 02 16:50:57 2024  
 Response via : Initial Calibration

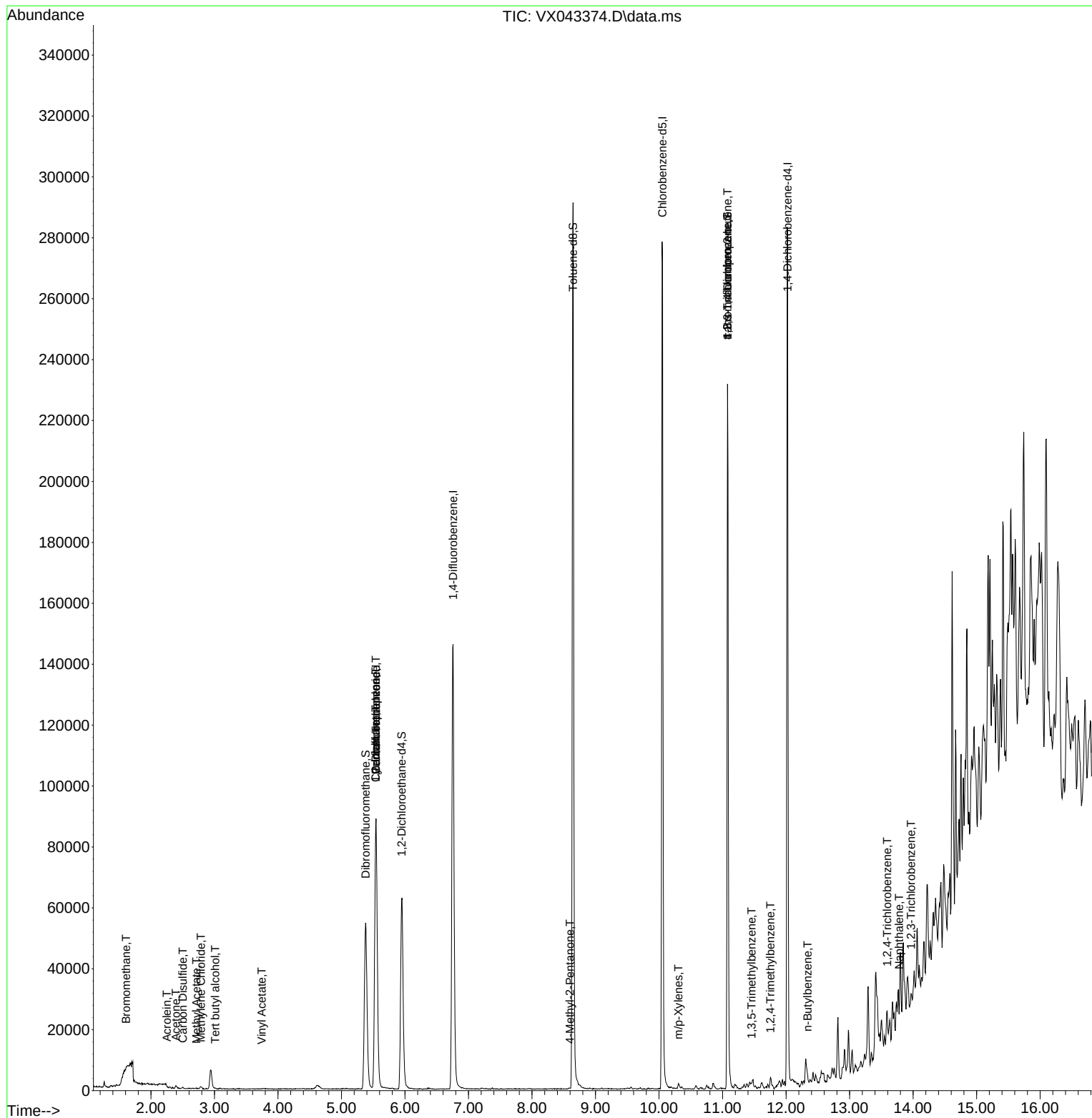
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.544  | 168   | 79309    | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 146712   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 127643   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 59432    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.946  | 65    | 65803    | 50.804   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | =      | 101.600% |
| 35) Dibromofluoromethane      | 5.379  | 113   | 48111    | 47.551   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 95.100%  |
| 50) Toluene-d8                | 8.647  | 98    | 173707   | 49.541   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | =      | 99.080%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 62830    | 49.324   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | =      | 98.640%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Bromomethane               | 1.605  | 94    | 189      | 0.486    | ug/l # | 40       |
| 11) Tert butyl alcohol        | 3.014  | 59    | 174      | 0.706    | ug/l # | 71       |
| 13) Acrolein                  | 2.252  | 56    | 116      | 0.498    | ug/l # | 1        |
| 16) Acetone                   | 2.392  | 43    | 1049     | 1.939    | ug/l   | 90       |
| 17) Carbon Disulfide          | 2.502  | 76    | 673      | 0.314    | ug/l # | 76       |
| 18) Methyl Acetate            | 2.715  | 43    | 375      | 0.276    | ug/l # | 51       |
| 20) Methylene Chloride        | 2.788  | 84    | 363      | 0.364    | ug/l   | 95       |
| 23) Vinyl Acetate             | 3.745  | 43    | 171      | 6.391    | ug/l # | 71       |
| 31) Cyclohexane               | 5.538  | 56    | 1956     | 1.400    | ug/l # | 14       |
| 36) 1,1-Dichloropropene       | 5.538  | 75    | 6977     | 5.458    | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 9365     | 6.189    | ug/l # | 15       |
| 51) 4-Methyl-2-Pentanone      | 8.598  | 43    | 331      | 0.215    | ug/l # | 37       |
| 68) m/p-Xylenes               | 10.305 | 106   | 493      | 0.275    | ug/l   | 96       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 35002    | 26.552   | ug/l # | 34       |
| 80) 1,3,5-Trimethylbenzene    | 11.457 | 105   | 793      | 0.208    | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 35002    | 68.812   | ug/l # | 8        |
| 84) 1,2,4-Trimethylbenzene    | 11.756 | 105   | 1553     | 0.405    | ug/l   | 92       |
| 89) n-Butylbenzene            | 12.341 | 91    | 1015     | 0.312    | ug/l # | 80       |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 505      | 0.432    | ug/l # | 66       |
| 95) Naphthalene               | 13.780 | 128   | 3489     | 0.813    | ug/l # | 95       |
| 96) 1,2,3-Trichlorobenzene    | 13.969 | 180   | 1000     | 0.830    | ug/l # | 51       |
| -----                         |        |       |          |          |        |          |

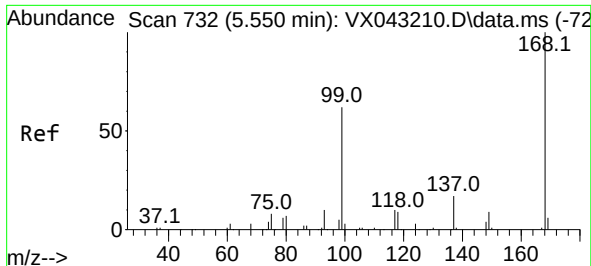
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101424\  
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Operator : JC/MD  
Sample : P4393-01 20X  
Misc : 1.31g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Oct 15 01:43:02 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X100124W.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 02 16:50:57 2024  
Response via : Initial Calibration

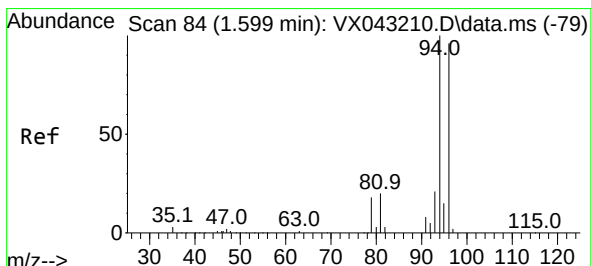
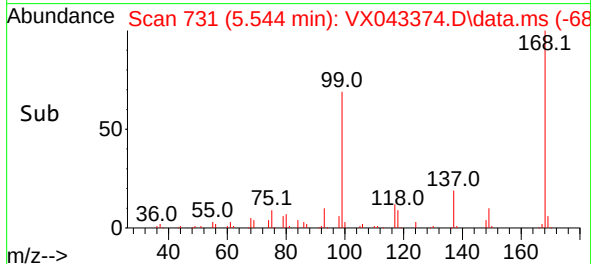
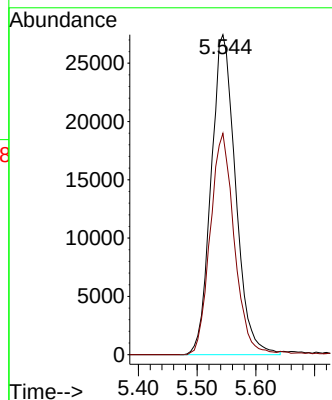
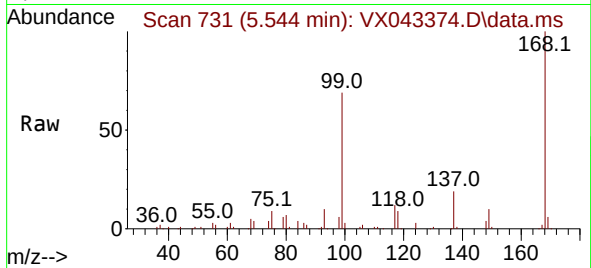




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX043374.D  
Acq: 14 Oct 2024 11:49

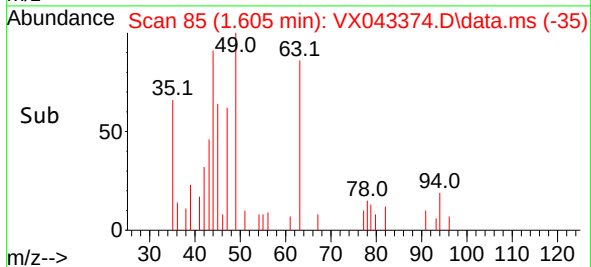
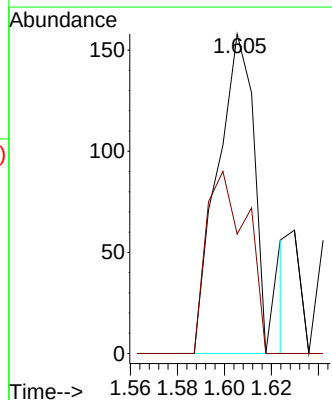
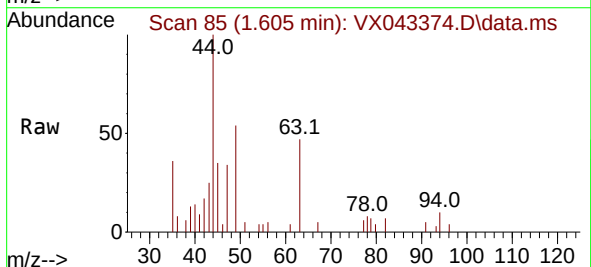
Instrument :  
MSVOA\_X  
ClientSampleId :

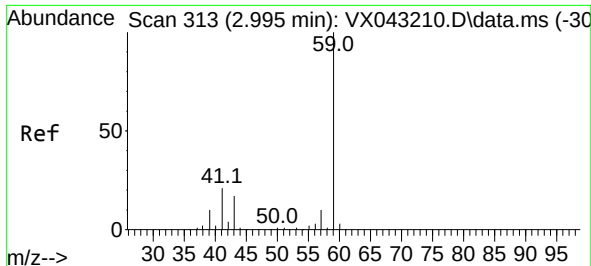
Tgt Ion:168 Resp: 79309  
Ion Ratio Lower Upper  
168 100  
99 69.1 49.7 74.5



#5  
Bromomethane  
Concen: 0.486 ug/l  
RT: 1.605 min Scan# 85  
Delta R.T. 0.006 min  
Lab File: VX043374.D  
Acq: 14 Oct 2024 11:49

Tgt Ion: 94 Resp: 189  
Ion Ratio Lower Upper  
94 100  
96 37.3 76.6 115.0#





#11

Tert butyl alcohol

Concen: 0.706 ug/l

RT: 3.014 min Scan# 31

Delta R.T. 0.018 min

Lab File: VX043374.D

Acq: 14 Oct 2024 11:49

Instrument :

MSVOA\_X

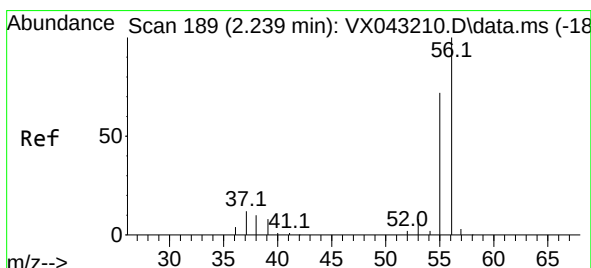
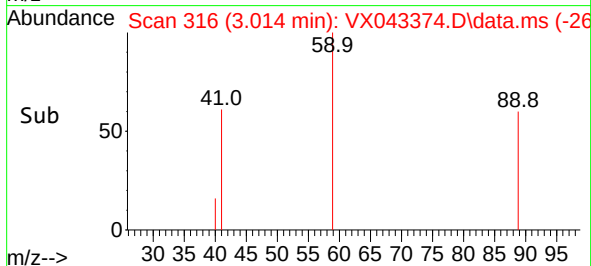
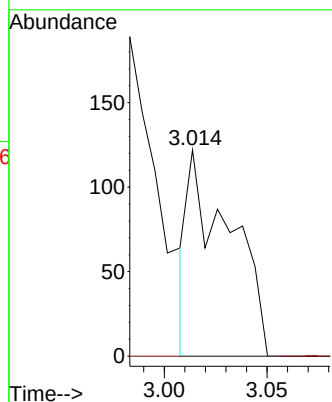
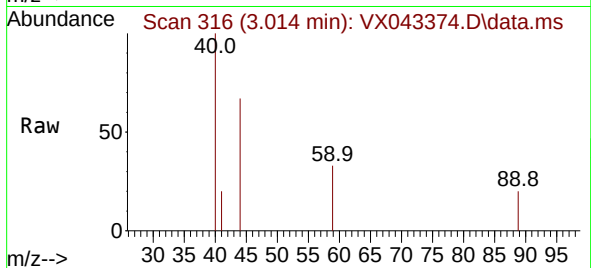
ClientSampleId :

Tgt Ion: 59 Resp: 174

Ion Ratio Lower Upper

59 100

57 0.0 8.6 13.0#



#13

Acrolein

Concen: 0.498 ug/l

RT: 2.252 min Scan# 191

Delta R.T. 0.012 min

Lab File: VX043374.D

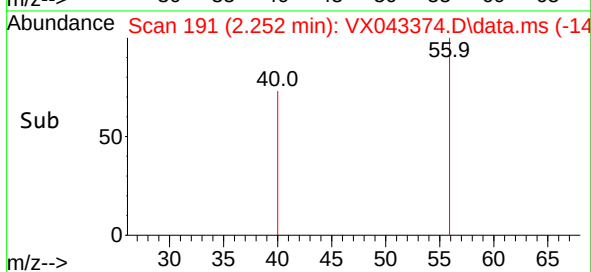
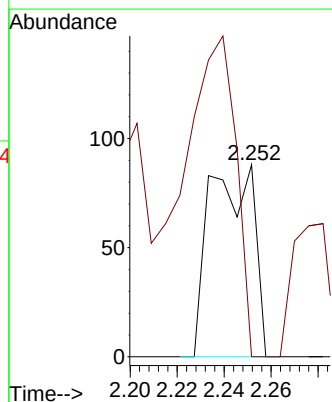
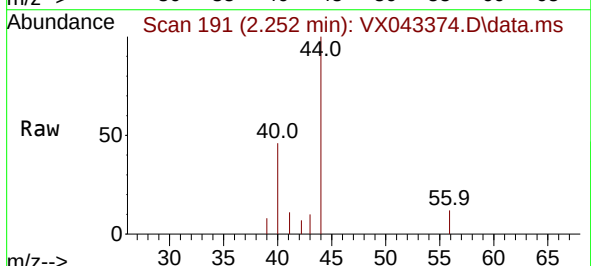
Acq: 14 Oct 2024 11:49

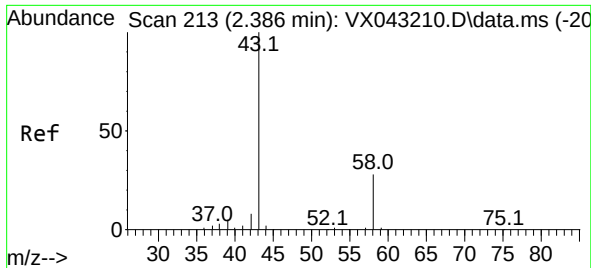
Tgt Ion: 56 Resp: 116

Ion Ratio Lower Upper

56 100

55 177.6 57.4 86.0#

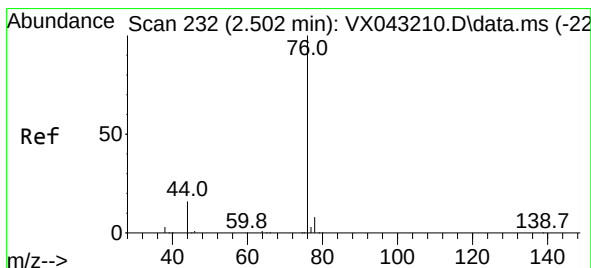
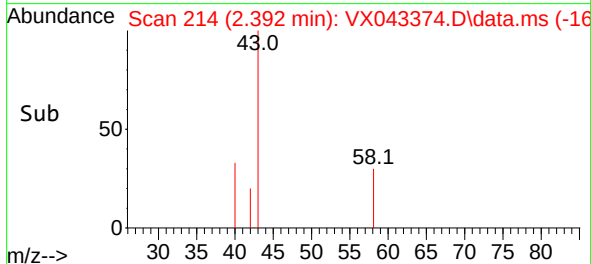
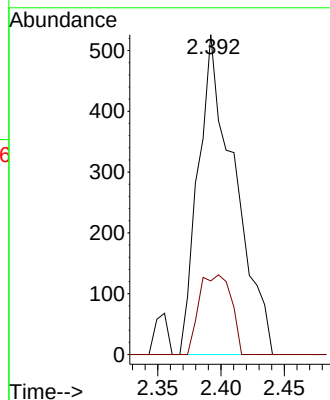
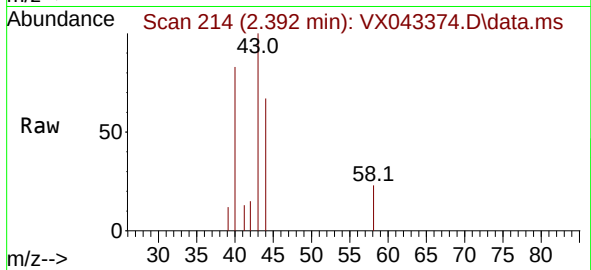




#16  
Acetone  
Concen: 1.939 ug/l  
RT: 2.392 min Scan# 213  
Delta R.T. 0.006 min  
Lab File: VX043374.D  
Acq: 14 Oct 2024 11:49

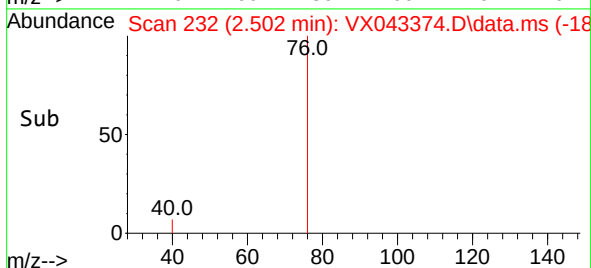
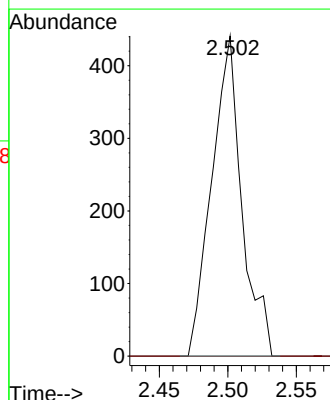
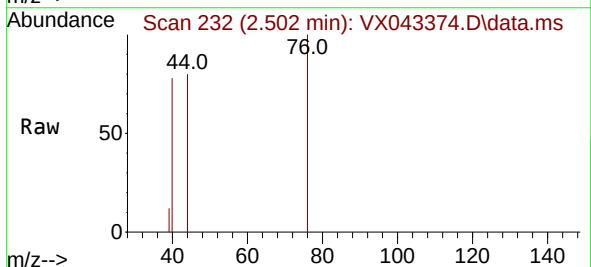
Instrument :  
MSVOA\_X  
ClientSampleId :

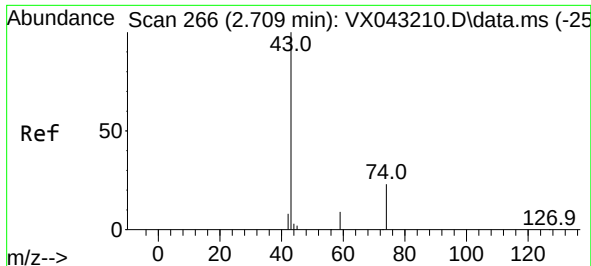
Tgt Ion: 43 Resp: 1049  
Ion Ratio Lower Upper  
43 100  
58 23.0 22.6 33.8



#17  
Carbon Disulfide  
Concen: 0.314 ug/l  
RT: 2.502 min Scan# 232  
Delta R.T. 0.000 min  
Lab File: VX043374.D  
Acq: 14 Oct 2024 11:49

Tgt Ion: 76 Resp: 673  
Ion Ratio Lower Upper  
76 100  
78 0.0 6.7 10.1#

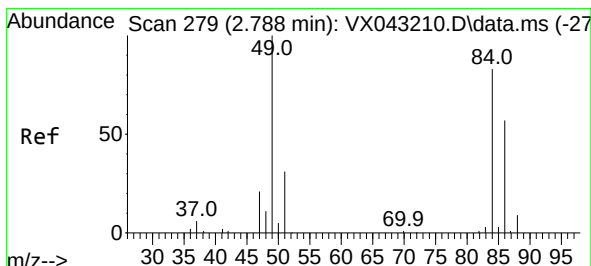
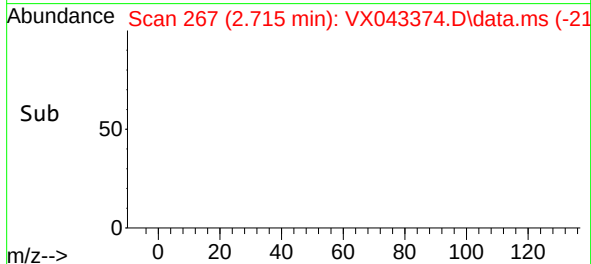
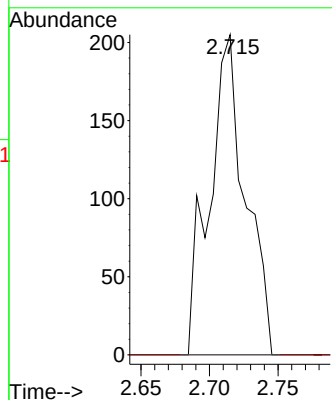
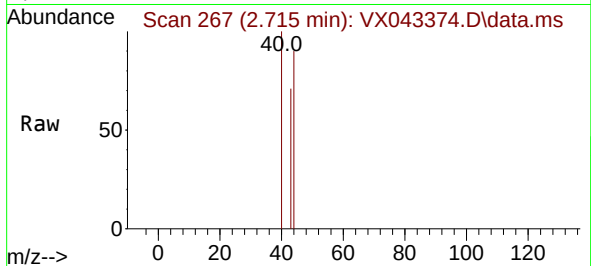




#18  
Methyl Acetate  
Concen: 0.276 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VX043374.D  
Acq: 14 Oct 2024 11:49

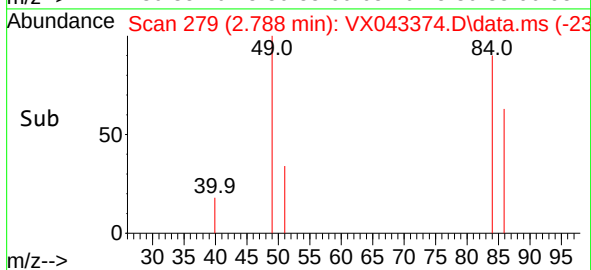
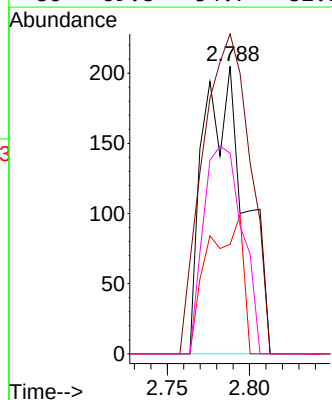
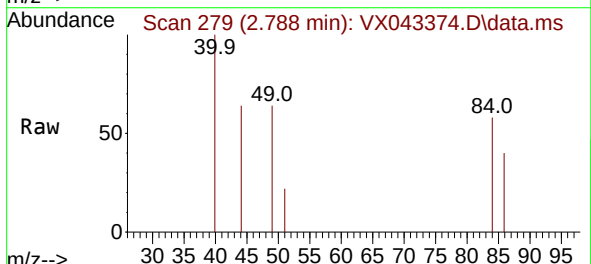
Instrument :  
MSVOA\_X  
ClientSampleId :

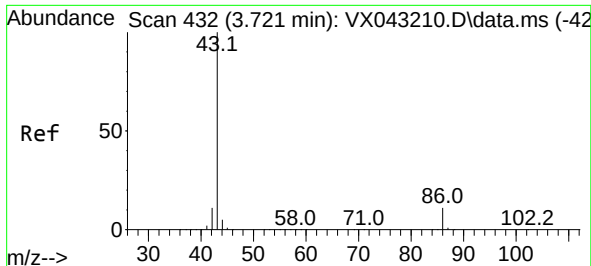
Tgt Ion: 43 Resp: 375  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.1 28.7#



#20  
Methylene Chloride  
Concen: 0.364 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.000 min  
Lab File: VX043374.D  
Acq: 14 Oct 2024 11:49

Tgt Ion: 84 Resp: 363  
Ion Ratio Lower Upper  
84 100  
49 111.2 96.7 145.1  
51 38.0 30.4 45.6  
86 69.8 54.7 82.1

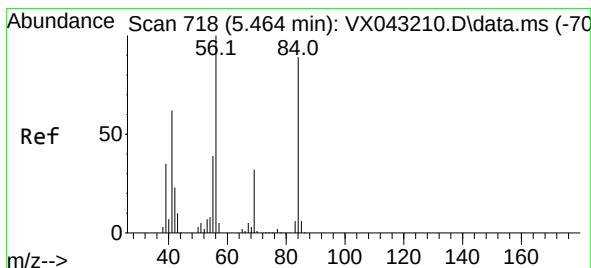
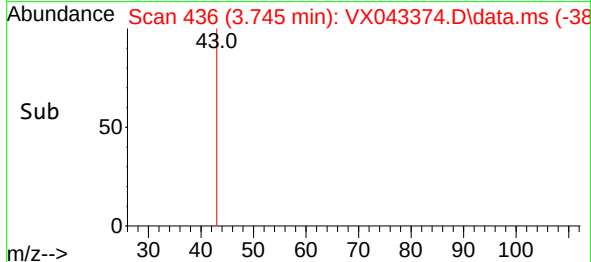
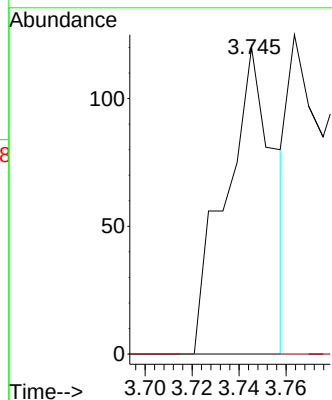
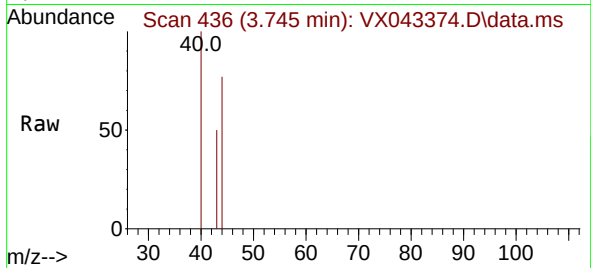




#23  
 Vinyl Acetate  
 Concen: 6.391 ug/l  
 RT: 3.745 min Scan# 41  
 Delta R.T. 0.024 min  
 Lab File: VX043374.D  
 Acq: 14 Oct 2024 11:49

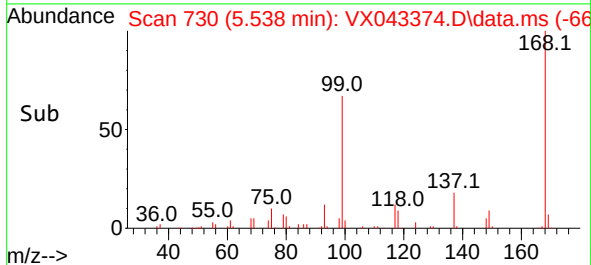
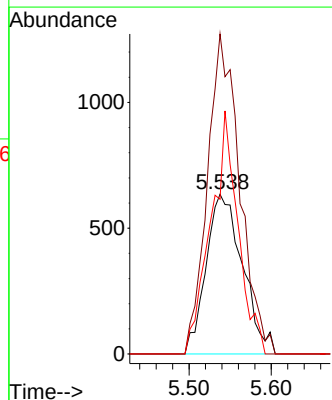
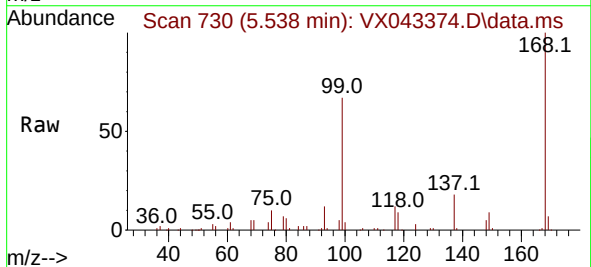
Instrument :  
 MSVOA\_X  
 ClientSampleId :

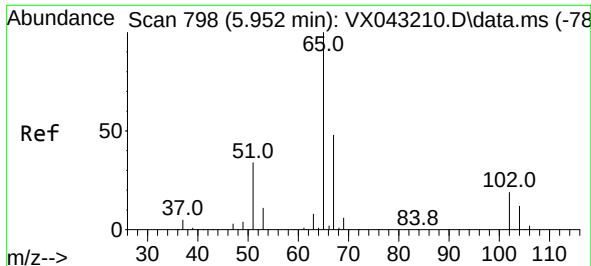
Tgt Ion: 43 Resp: 171  
 Ion Ratio Lower Upper  
 43 100  
 86 0.0 8.8 13.2#



#31  
 Cyclohexane  
 Concen: 1.400 ug/l  
 RT: 5.538 min Scan# 730  
 Delta R.T. 0.073 min  
 Lab File: VX043374.D  
 Acq: 14 Oct 2024 11:49

Tgt Ion: 56 Resp: 1956  
 Ion Ratio Lower Upper  
 56 100  
 69 200.3 25.8 38.6#  
 84 96.9 71.1 106.7





#33

1,2-Dichloroethane-d4

Concen: 50.804 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX043374.D

Acq: 14 Oct 2024 11:49

Instrument :

MSVOA\_X

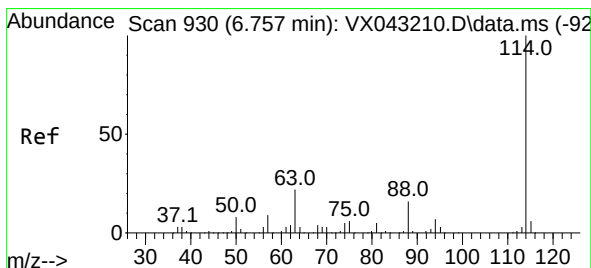
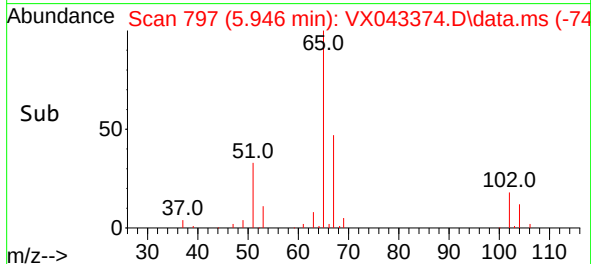
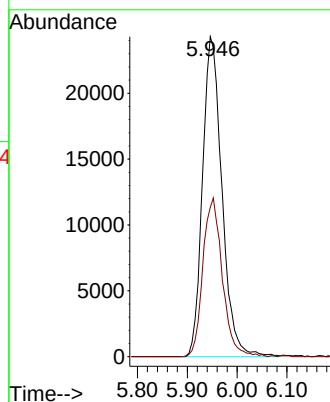
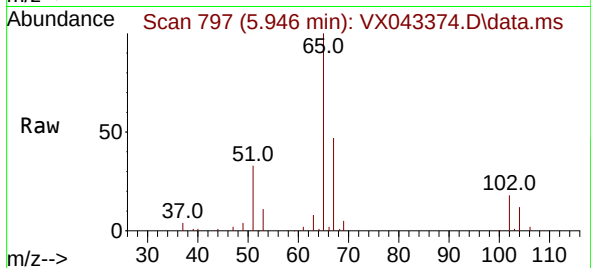
ClientSampleId :

Tgt Ion: 65 Resp: 65803

Ion Ratio Lower Upper

65 100

67 49.5 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX043374.D

Acq: 14 Oct 2024 11:49

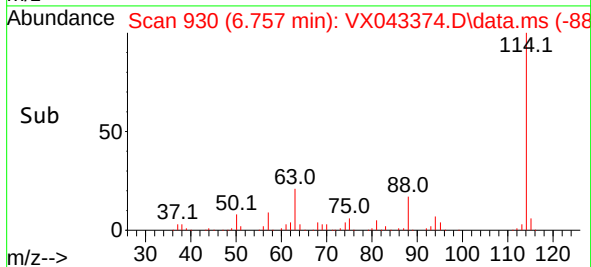
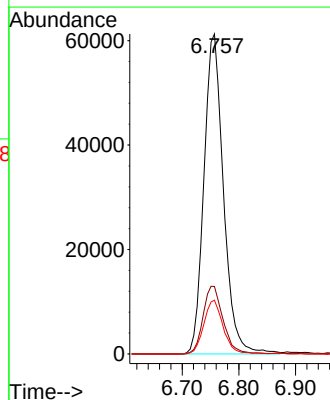
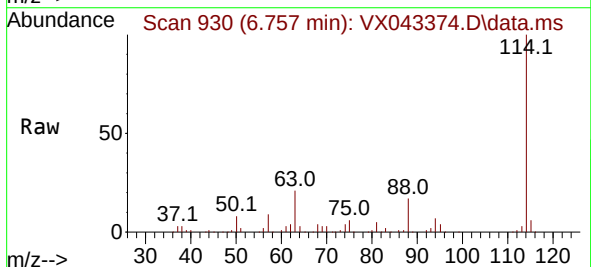
Tgt Ion: 114 Resp: 146712

Ion Ratio Lower Upper

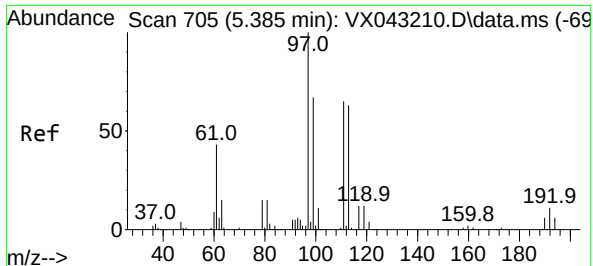
114 100

63 21.1 0.0 43.0

88 16.8 0.0 33.0



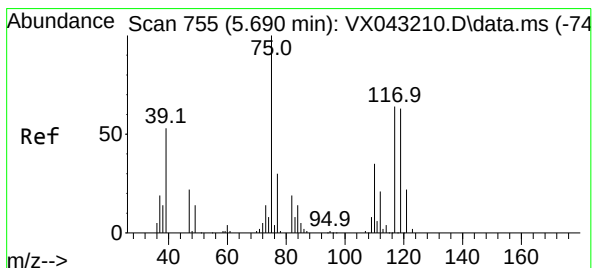
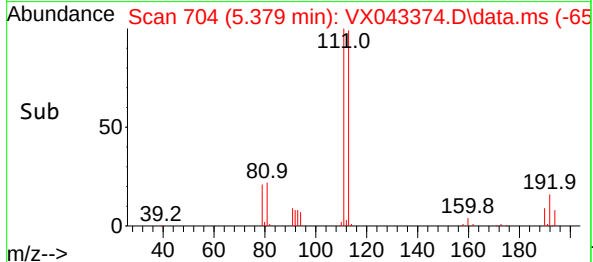
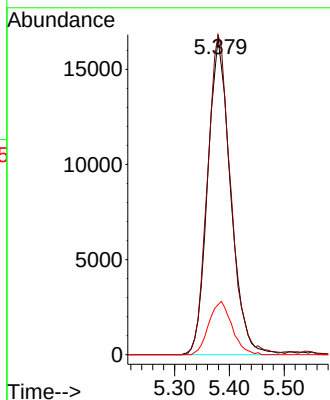
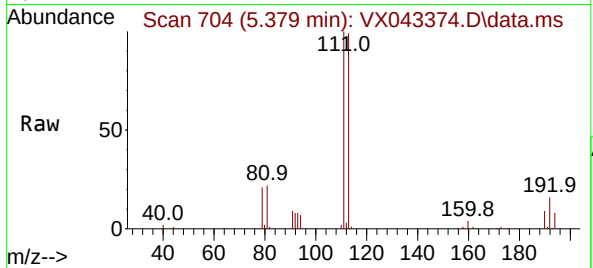




#35  
 Dibromofluoromethane  
 Concen: 47.551 ug/l  
 RT: 5.379 min Scan# 705  
 Delta R.T. -0.006 min  
 Lab File: VX043374.D  
 Acq: 14 Oct 2024 11:49

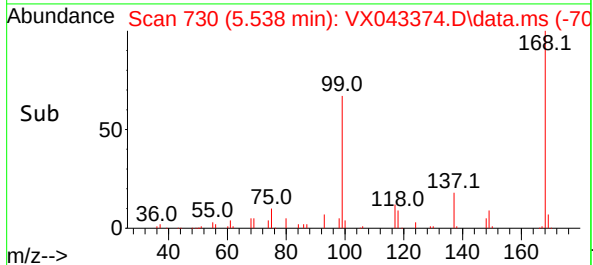
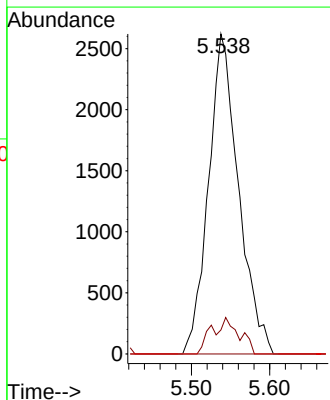
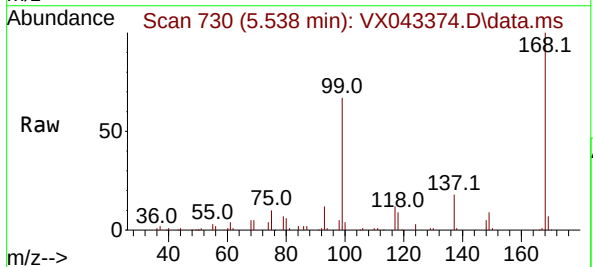
Instrument :  
 MSVOA\_X  
 ClientSampleId :

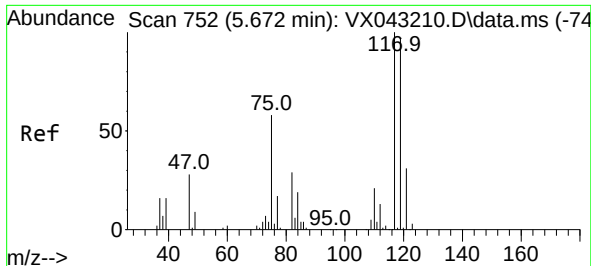
Tgt Ion:113 Resp: 48111  
 Ion Ratio Lower Upper  
 113 100  
 111 102.8 83.4 125.0  
 192 17.0 14.1 21.1



#36  
 1,1-Dichloropropene  
 Concen: 5.458 ug/l  
 RT: 5.538 min Scan# 730  
 Delta R.T. -0.152 min  
 Lab File: VX043374.D  
 Acq: 14 Oct 2024 11:49

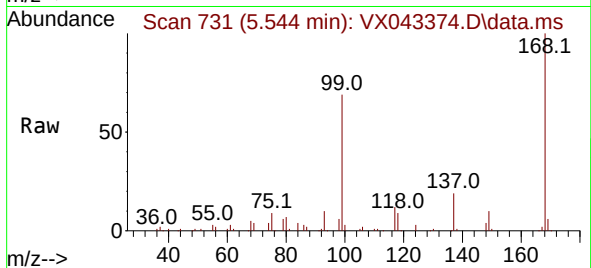
Tgt Ion: 75 Resp: 6977  
 Ion Ratio Lower Upper  
 75 100  
 110 7.0 17.8 53.3#  
 77 0.0 24.9 37.3#



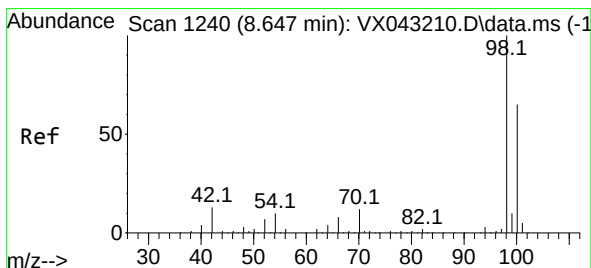
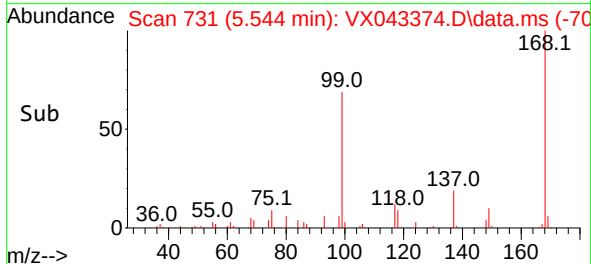
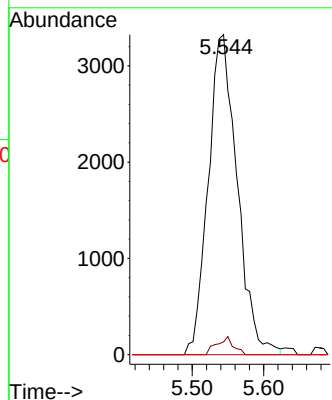


#38  
Carbon Tetrachloride  
Concen: 6.189 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX043374.D  
Acq: 14 Oct 2024 11:49

Instrument :  
MSVOA\_X  
ClientSampleId :

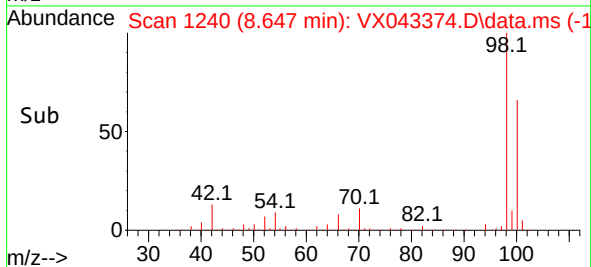
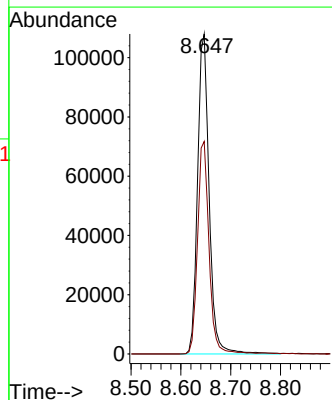
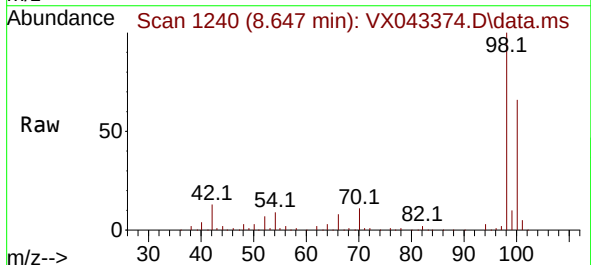


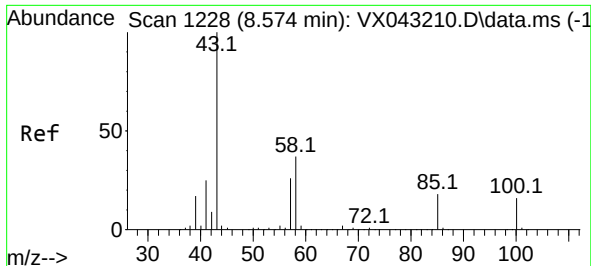
Tgt Ion:117 Resp: 9365  
Ion Ratio Lower Upper  
117 100  
119 4.0 77.7 116.5#  
121 0.0 24.3 36.5#



#50  
Toluene-d8  
Concen: 49.541 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX043374.D  
Acq: 14 Oct 2024 11:49

Tgt Ion: 98 Resp: 173707  
Ion Ratio Lower Upper  
98 100  
100 65.7 52.4 78.6

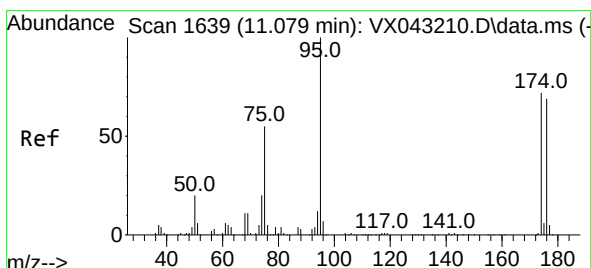
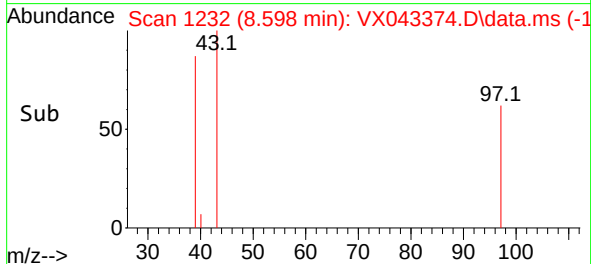
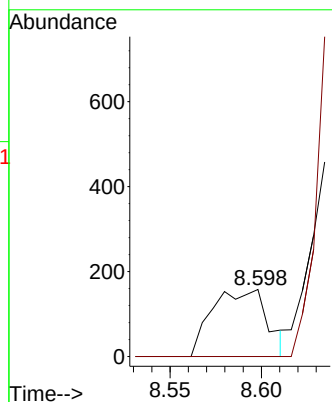
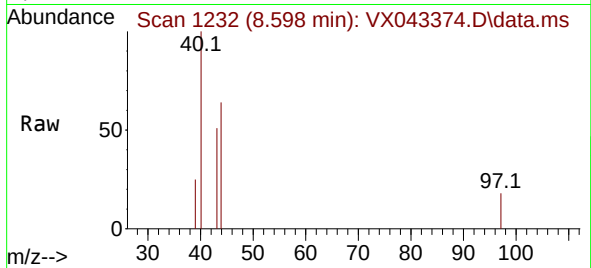




#51  
4-Methyl-2-Pentanone  
Concen: 0.215 ug/l  
RT: 8.598 min Scan# 11  
Delta R.T. 0.024 min  
Lab File: VX043374.D  
Acq: 14 Oct 2024 11:49

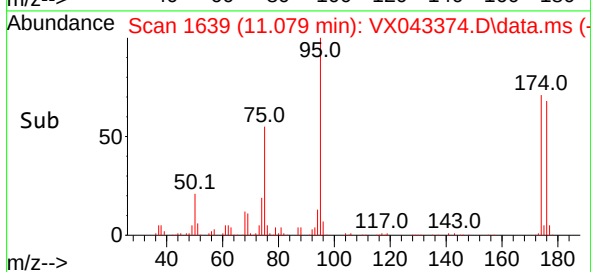
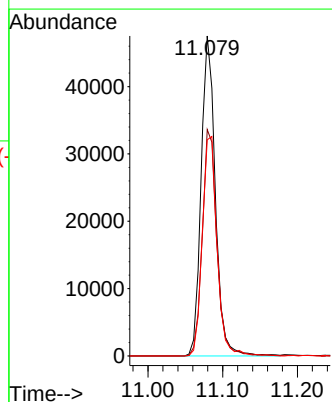
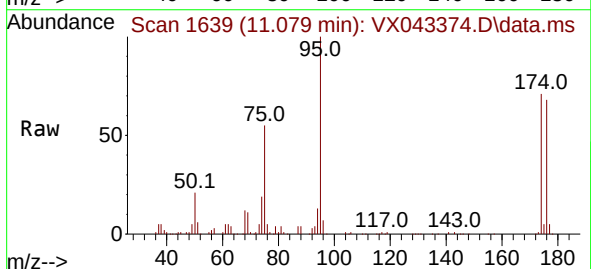
Instrument :  
MSVOA\_X  
ClientSampleId :

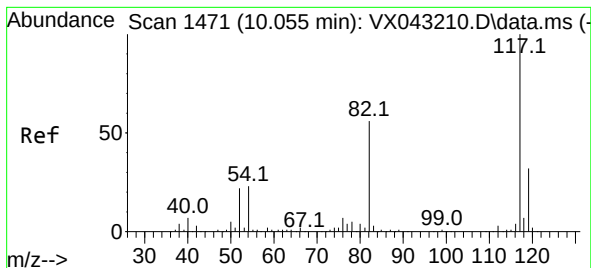
Tgt Ion: 43 Resp: 331  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.0 45.0#



#62  
4-Bromofluorobenzene  
Concen: 49.324 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX043374.D  
Acq: 14 Oct 2024 11:49

Tgt Ion: 95 Resp: 62830  
Ion Ratio Lower Upper  
95 100  
174 72.0 0.0 145.0  
176 71.4 0.0 143.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX043374.D

Acq: 14 Oct 2024 11:49

Instrument :

MSVOA\_X

ClientSampleId :

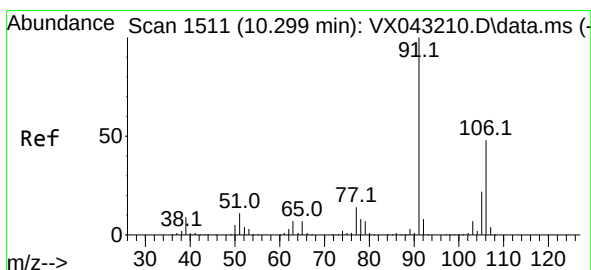
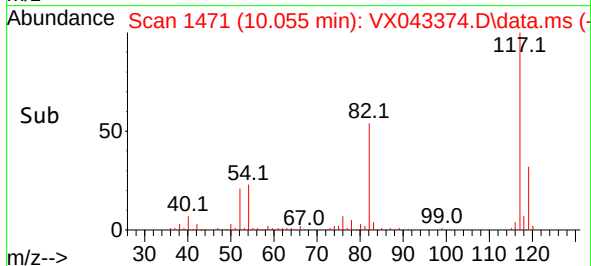
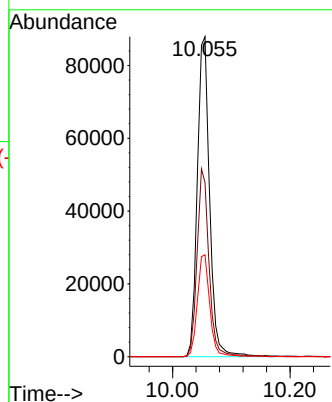
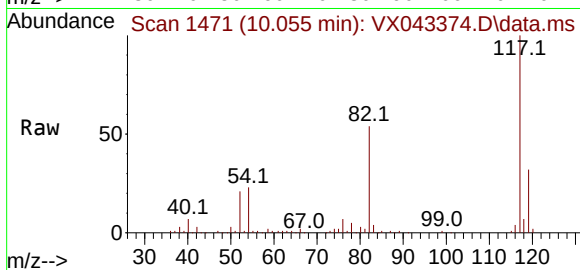
Tgt Ion:117 Resp: 127643

Ion Ratio Lower Upper

117 100

82 54.4 45.0 67.6

119 31.8 25.3 37.9



#68

m/p-Xylenes

Concen: 0.275 ug/l

RT: 10.305 min Scan# 1512

Delta R.T. 0.006 min

Lab File: VX043374.D

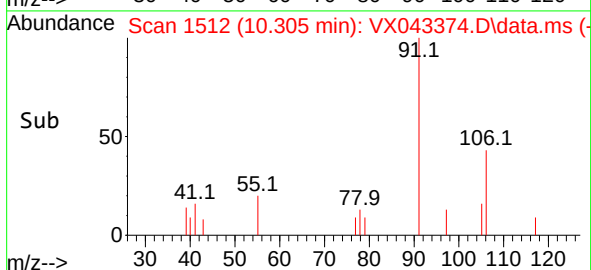
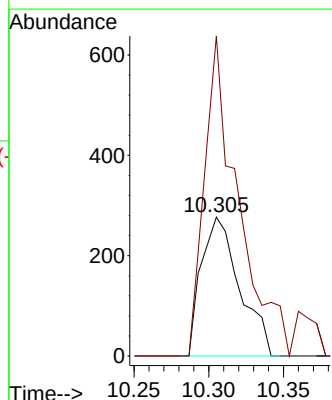
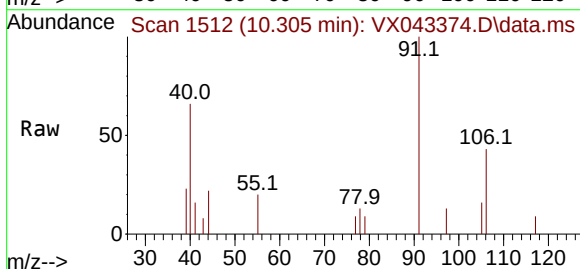
Acq: 14 Oct 2024 11:49

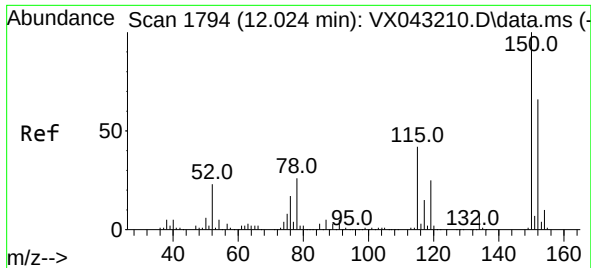
Tgt Ion:106 Resp: 493

Ion Ratio Lower Upper

106 100

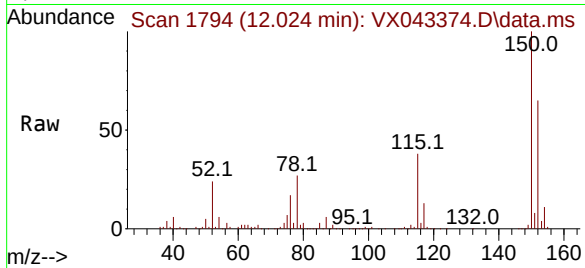
91 202.2 167.0 250.6



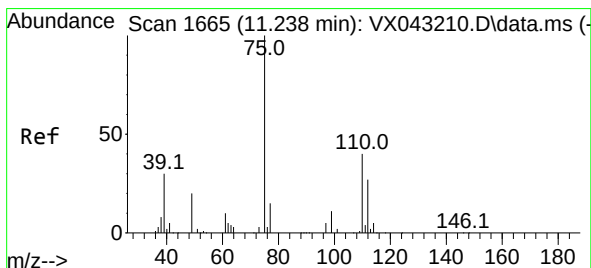
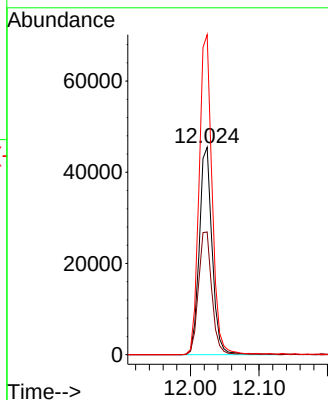
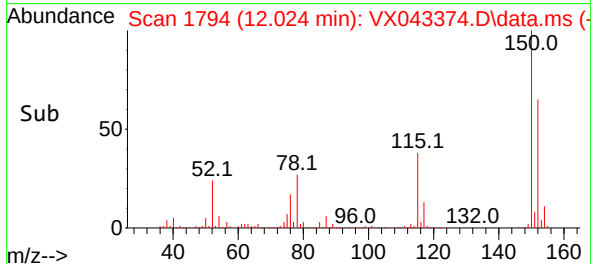


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX043374.D  
 Acq: 14 Oct 2024 11:49

Instrument :  
 MSVOA\_X  
 ClientSampleId :

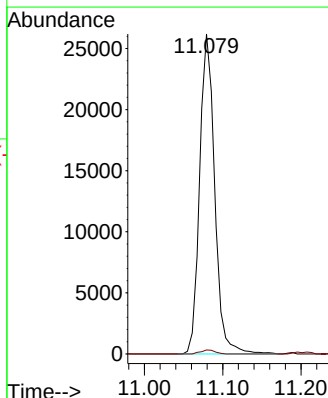
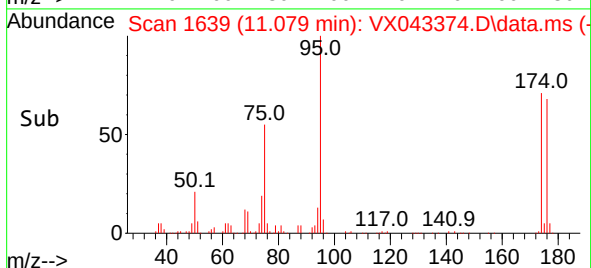
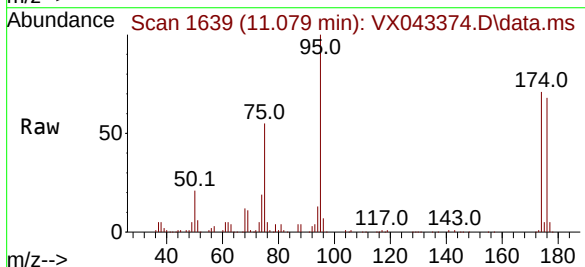


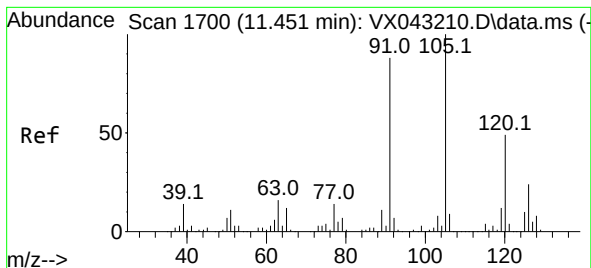
Tgt Ion:152 Resp: 59432  
 Ion Ratio Lower Upper  
 152 100  
 115 61.8 44.1 132.3  
 150 156.1 0.0 347.4



#76  
 1,2,3-Trichloropropane  
 Concen: 26.552 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.158 min  
 Lab File: VX043374.D  
 Acq: 14 Oct 2024 11:49

Tgt Ion: 75 Resp: 35002  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 22.0 66.0#





#80

1,3,5-Trimethylbenzene

Concen: 0.208 ug/l

RT: 11.457 min Scan# 11

Delta R.T. 0.006 min

Lab File: VX043374.D

Acq: 14 Oct 2024 11:49

Instrument :

MSVOA\_X

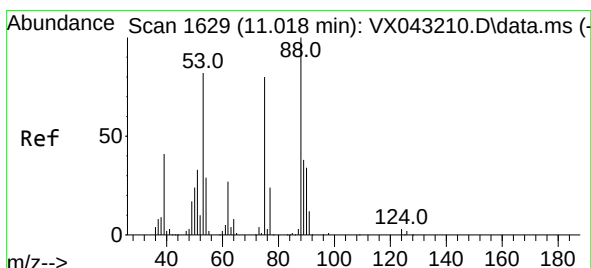
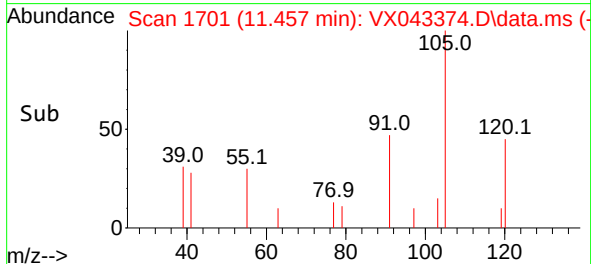
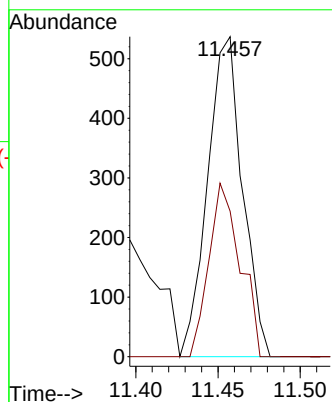
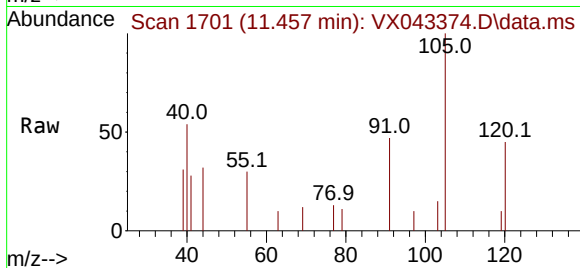
ClientSampleId :

Tgt Ion:105 Resp: 793

Ion Ratio Lower Upper

105 100

120 48.7 23.9 71.8



#81

trans-1,4-Dichloro-2-butene

Concen: 68.812 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX043374.D

Acq: 14 Oct 2024 11:49

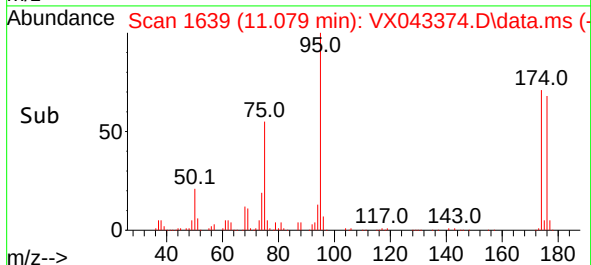
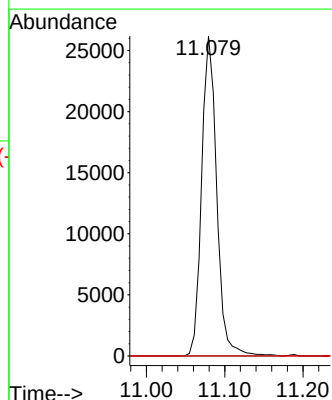
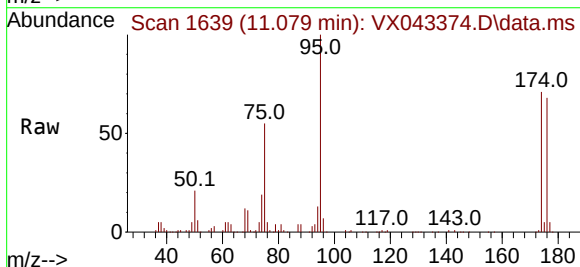
Tgt Ion: 75 Resp: 35002

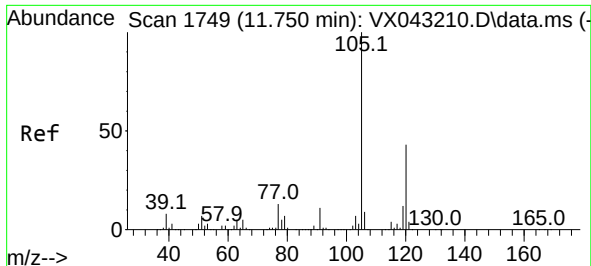
Ion Ratio Lower Upper

75 100

53 0.0 83.9 125.9#

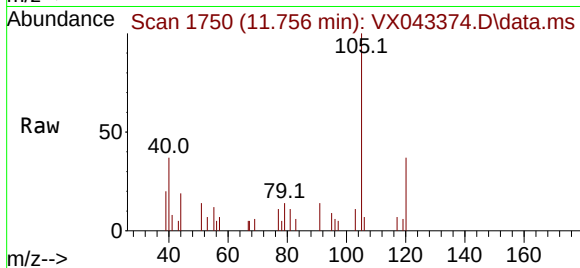
89 0.0 38.6 58.0#



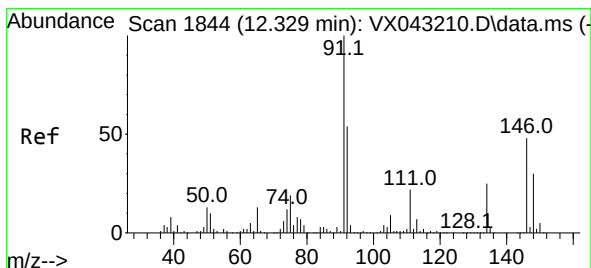
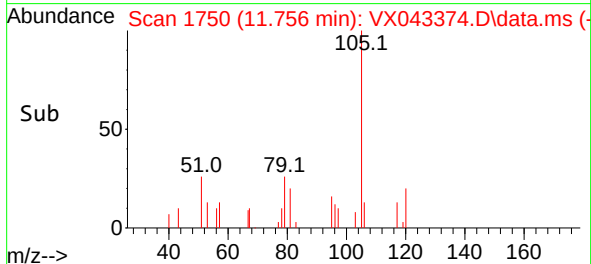
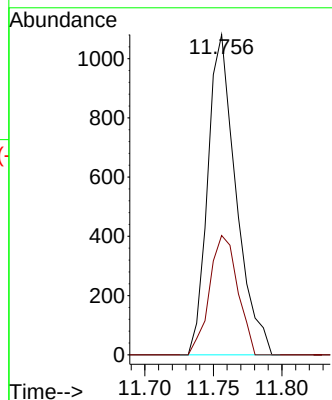


#84  
1,2,4-Trimethylbenzene  
Concen: 0.405 ug/l  
RT: 11.756 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX043374.D  
Acq: 14 Oct 2024 11:49

Instrument :  
MSVOA\_X  
ClientSampleId :

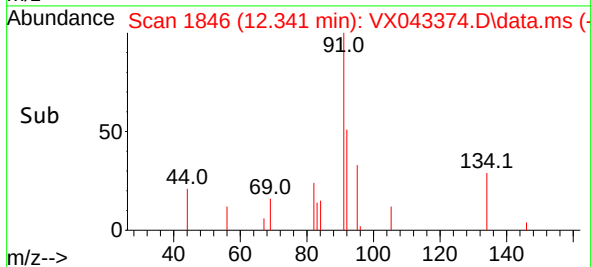
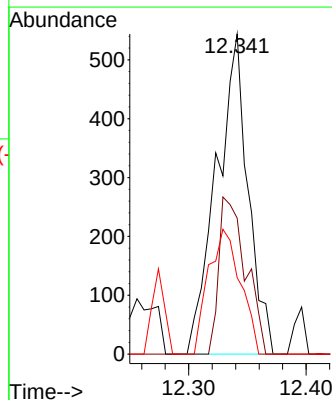
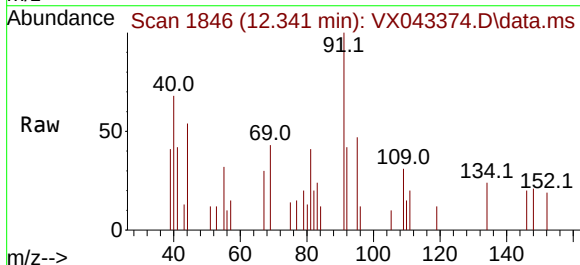


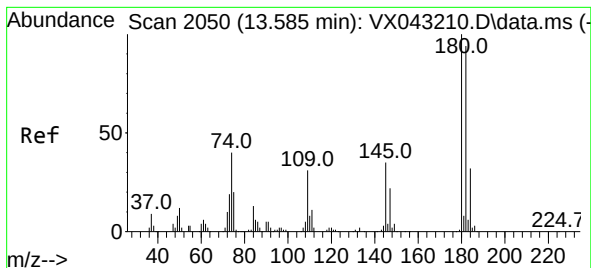
Tgt Ion:105 Resp: 1553  
Ion Ratio Lower Upper  
105 100  
120 37.1 21.2 63.6



#89  
n-Butylbenzene  
Concen: 0.312 ug/l  
RT: 12.341 min Scan# 1846  
Delta R.T. 0.012 min  
Lab File: VX043374.D  
Acq: 14 Oct 2024 11:49

Tgt Ion: 91 Resp: 1015  
Ion Ratio Lower Upper  
91 100  
92 41.9 27.0 81.0  
134 39.5 12.9 38.6#





#93

1,2,4-Trichlorobenzene

Concen: 0.432 ug/l

RT: 13.591 min Scan# 2050

Delta R.T. 0.006 min

Lab File: VX043374.D

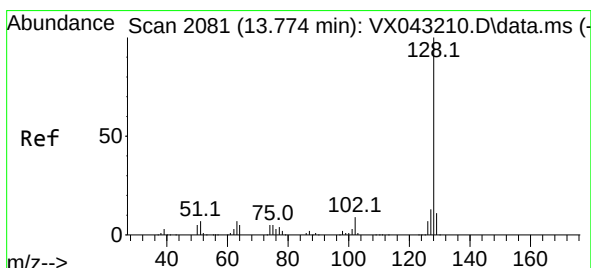
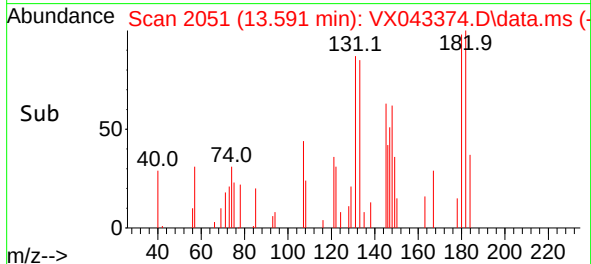
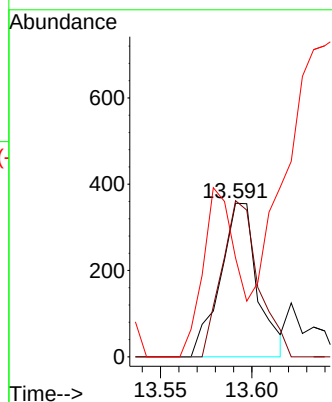
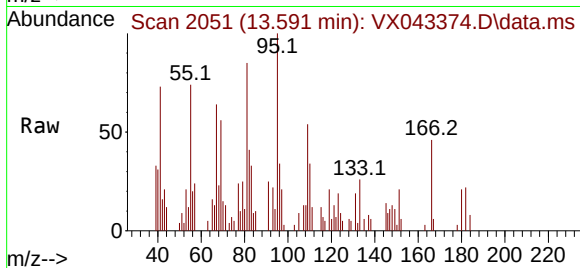
Acq: 14 Oct 2024 11:49

Instrument :

MSVOA\_X

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 505        |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 99.8  | 47.1 141.3 |
| 145         | 98.8  | 16.6 49.8# |



#95

Naphthalene

Concen: 0.813 ug/l

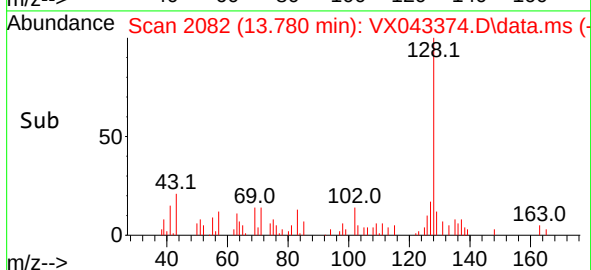
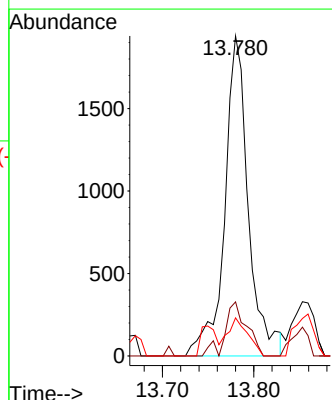
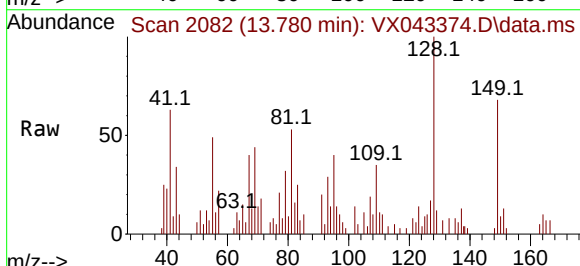
RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

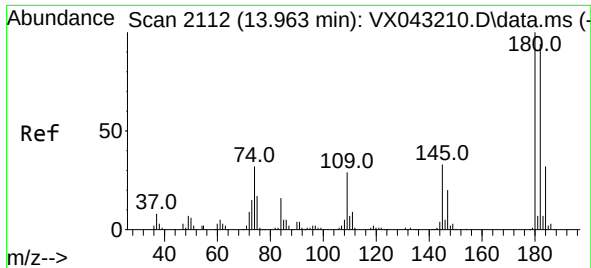
Lab File: VX043374.D

Acq: 14 Oct 2024 11:49

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:128 | Resp: | 3489       |
| Ion Ratio   | Lower | Upper      |
| 128         | 100   |            |
| 127         | 15.5  | 10.2 15.2# |
| 129         | 10.2  | 8.6 13.0   |

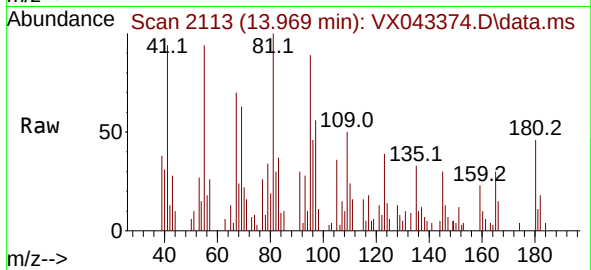






#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.830 ug/l  
 RT: 13.969 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VX043374.D  
 Acq: 14 Oct 2024 11:49

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion:180 Resp: 1000  
 Ion Ratio Lower Upper  
 180 100  
 182 57.4 46.5 139.3  
 145 82.2 17.2 51.6#

