

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051325\  
 Data File : VX046169.D  
 Acq On : 13 May 2025 16:22  
 Operator : JC/MD  
 Sample : Q2007-18  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OR-636-COMP-12

Quant Time: May 14 01:42:55 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X050525W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 06 07:12:22 2025  
 Response via : Initial Calibration

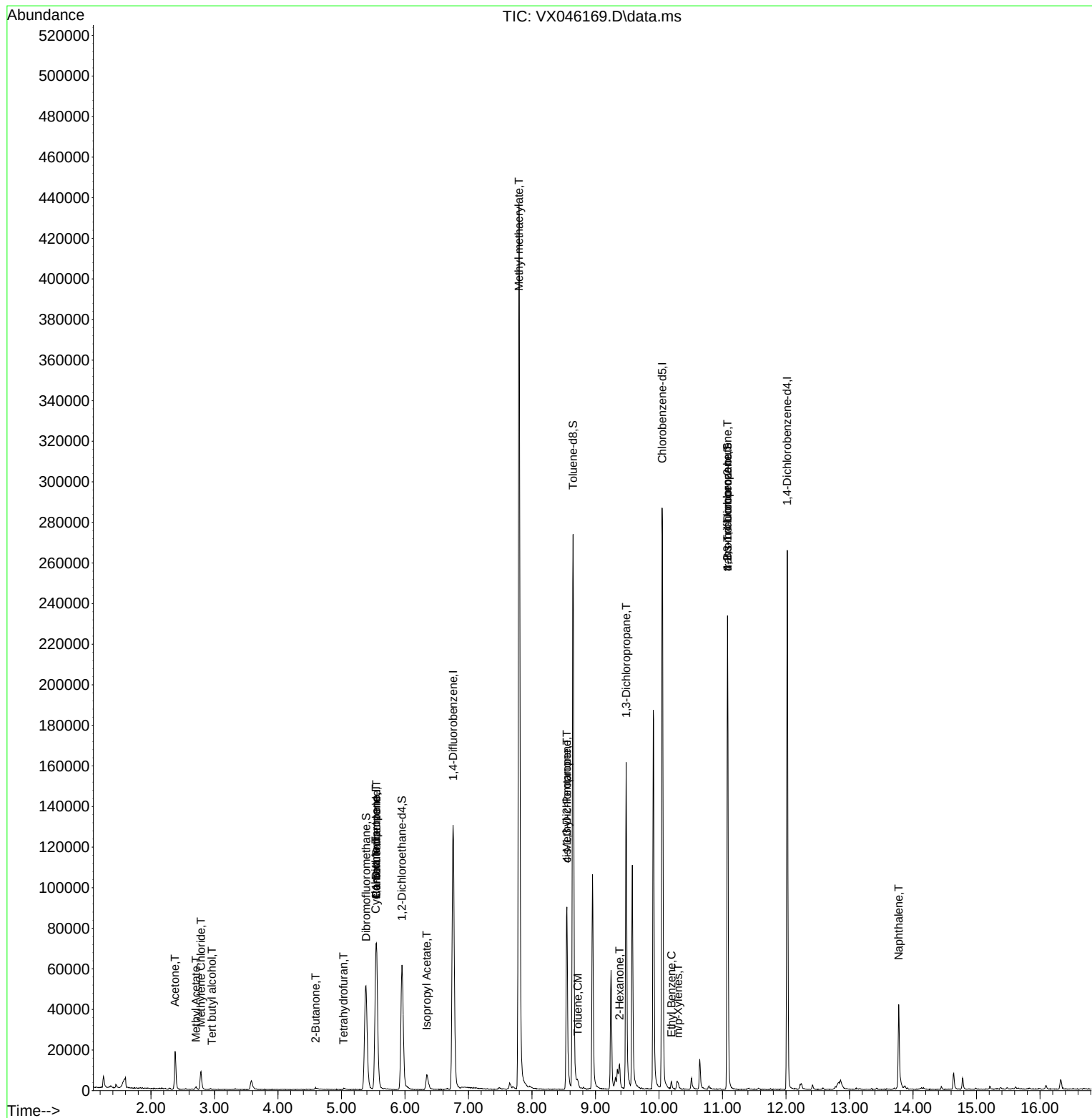
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 64143               | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 126541              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.049         | 117  | 119647              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 49746               | 50.000 | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 62796               | 52.512 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 105.020% |        |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 45566               | 50.005 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 100.000% |        |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 159039              | 50.426 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 100.860% |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 61431               | 50.778 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 101.560% |        |        |          |
| Target Compounds              |                |      |                     |        |        |          |
|                               |                |      |                     |        | Qvalue |          |
| 11) Tert butyl alcohol        | 2.959          | 59   | 157                 | 0.935  | ug/l # | 72       |
| 16) Acetone                   | 2.380          | 43   | 20004               | 41.721 | ug/l   | 94       |
| 18) Methyl Acetate            | 2.709          | 43   | 1565                | 1.407  | ug/l   | 97       |
| 20) Methylene Chloride        | 2.788          | 84   | 3768                | 4.101  | ug/l   | 96       |
| 25) 2-Butanone                | 4.593          | 43   | 958                 | 1.376  | ug/l   | 96       |
| 29) Tetrahydrofuran           | 5.032          | 42   | 185                 | 0.424  | ug/l # | 72       |
| 31) Cyclohexane               | 5.538          | 56   | 1863                | 1.307  | ug/l # | 49       |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 6007                | 4.906  | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 7771                | 5.649  | ug/l # | 14       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 10896               | 4.722  | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.793          | 41   | 43033               | 36.514 | ug/l # | 48       |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 35038               | 22.874 | ug/l # | 51       |
| 52) Toluene                   | 8.720          | 92   | 956                 | 0.435  | ug/l   | 95       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 13869               | 10.191 | ug/l # | 64       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 1267                | 0.814  | ug/l # | 42       |
| 59) 2-Hexanone                | 9.378          | 43   | 11413               | 10.071 | ug/l # | 28       |
| 67) Ethyl Benzene             | 10.195         | 91   | 2354                | 0.510  | ug/l # | 84       |
| 68) m/p-Xylenes               | 10.299         | 106  | 516                 | 0.306  | ug/l   | 88       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 35697               | 29.812 | ug/l # | 36       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 35697               | 97.058 | ug/l # | 1        |
| 95) Naphthalene               | 13.774         | 128  | 29355               | 8.462  | ug/l   | 99       |
| -----                         |                |      |                     |        |        |          |

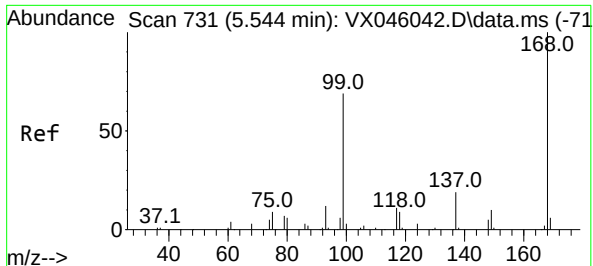
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051325\  
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Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration

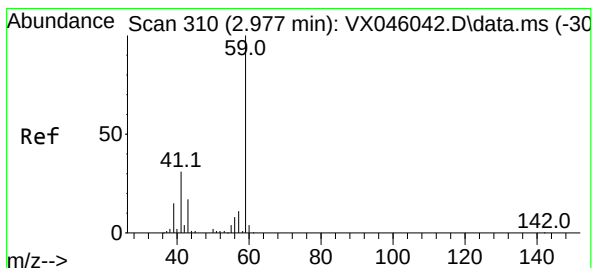
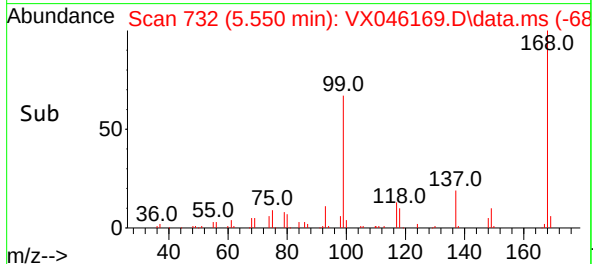
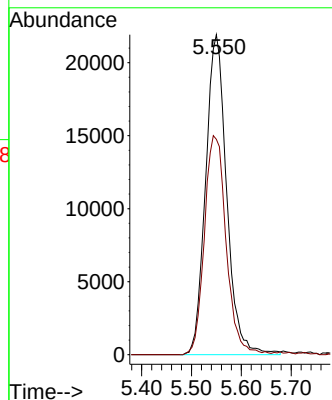
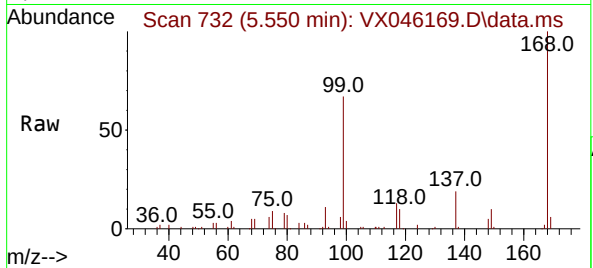




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

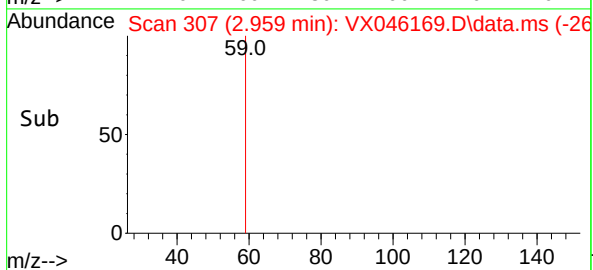
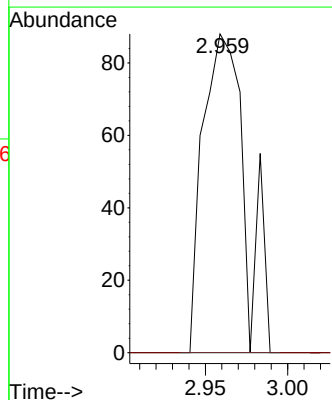
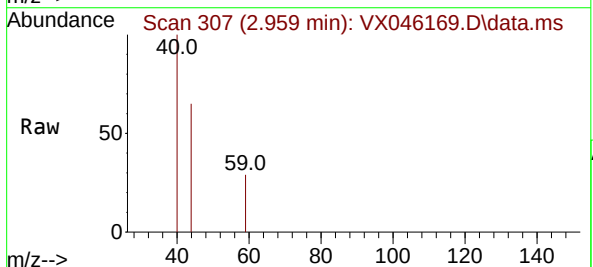
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-636-COMP-12

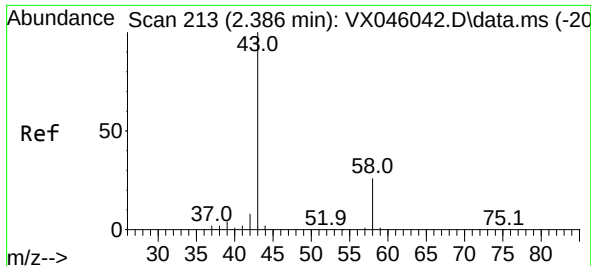
Tgt Ion:168 Resp: 64143  
Ion Ratio Lower Upper  
168 100  
99 67.3 54.9 82.3



#11  
Tert butyl alcohol  
Concen: 0.935 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. -0.018 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

Tgt Ion: 59 Resp: 157  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#

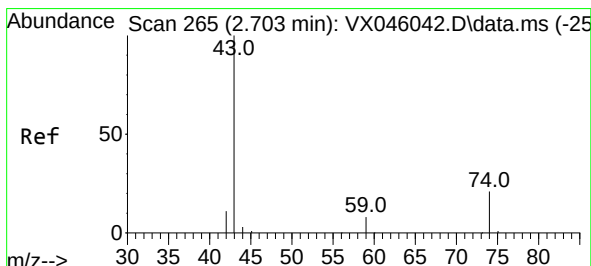
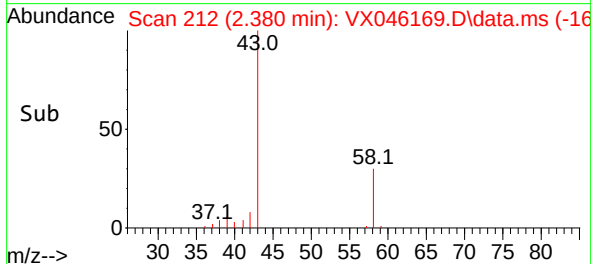
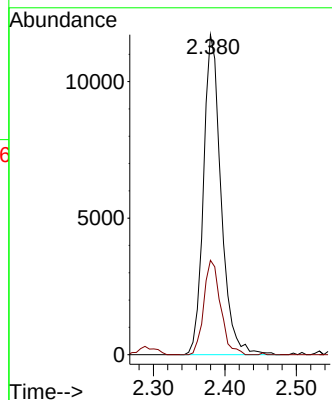
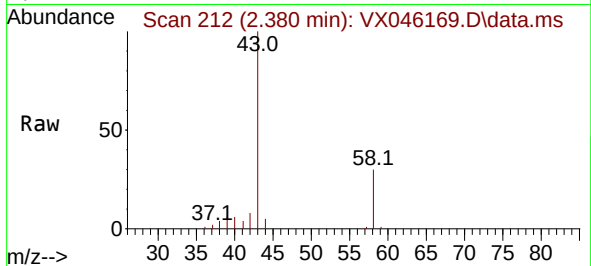




#16  
Acetone  
Concen: 41.721 ug/l  
RT: 2.380 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

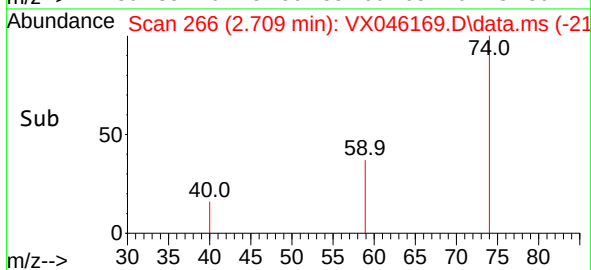
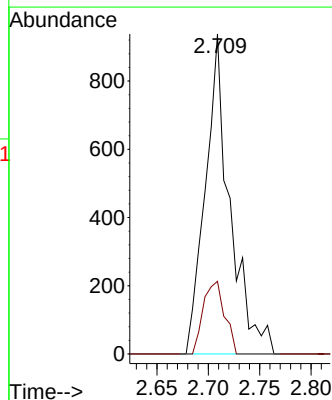
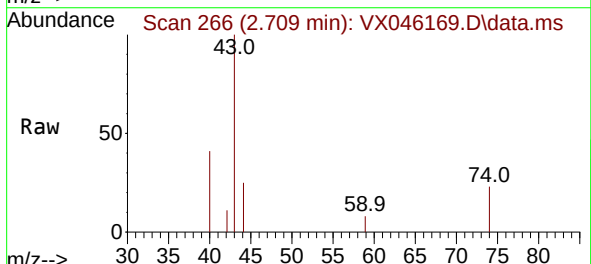
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-636-COMP-12

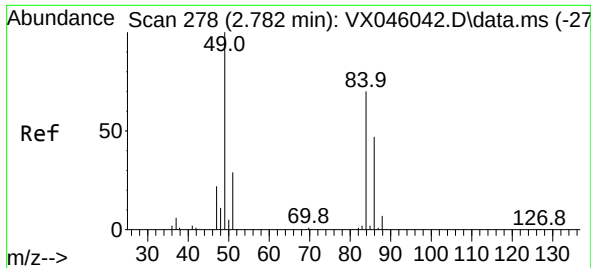
Tgt Ion: 43 Resp: 20004  
Ion Ratio Lower Upper  
43 100  
58 29.5 21.2 31.8



#18  
Methyl Acetate  
Concen: 1.407 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.006 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

Tgt Ion: 43 Resp: 1565  
Ion Ratio Lower Upper  
43 100  
74 19.7 16.7 25.1

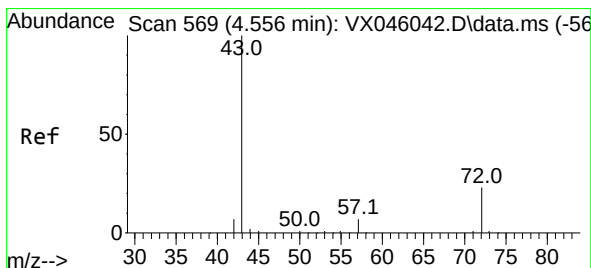
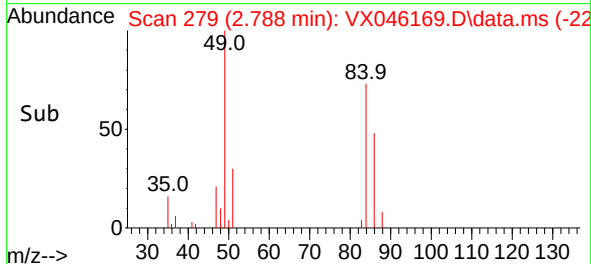
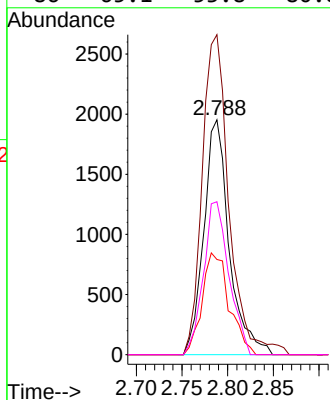
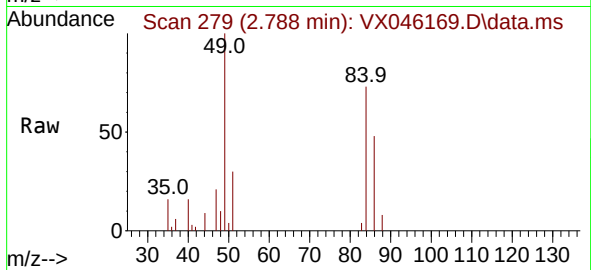




#20  
Methylene Chloride  
Concen: 4.101 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

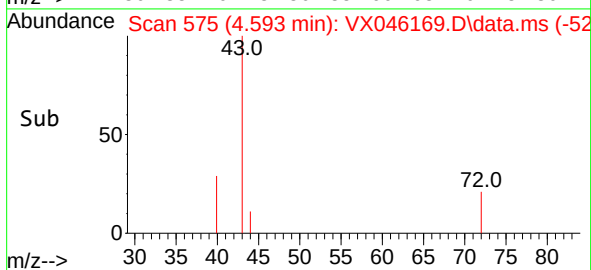
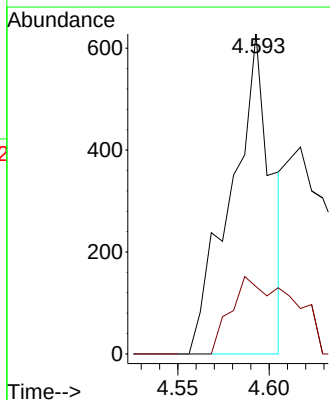
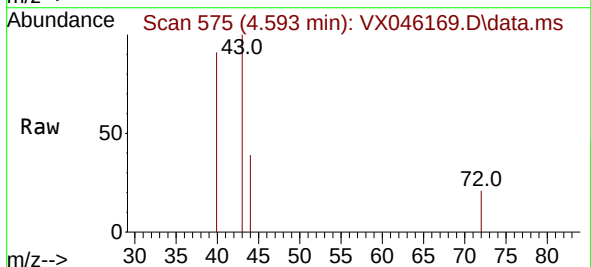
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-636-COMP-12

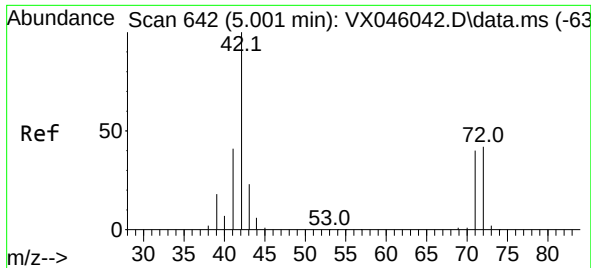
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 3768  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 136.3 | 113.9 | 170.9 |
| 51       | 40.5  | 33.5  | 50.3  |
| 86       | 65.1  | 53.8  | 80.8  |



#25  
2-Butanone  
Concen: 1.376 ug/l  
RT: 4.593 min Scan# 575  
Delta R.T. 0.037 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 958   |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 21.0  | 18.4  | 27.6  |





#29

Tetrahydrofuran

Concen: 0.424 ug/l

RT: 5.032 min Scan# 64

Delta R.T. 0.031 min

Lab File: VX046169.D

Acq: 13 May 2025 16:22

Instrument :

MSVOA\_X

ClientSampleId :

OR-636-COMP-12

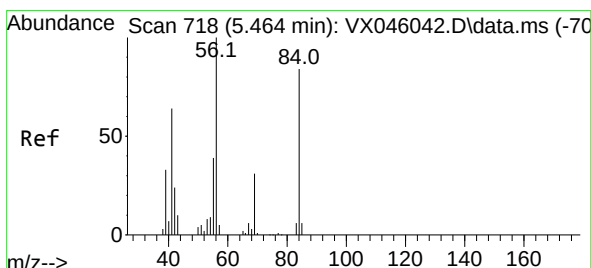
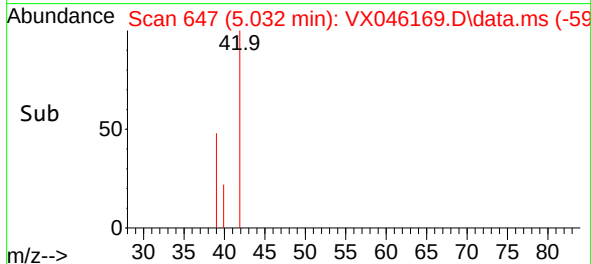
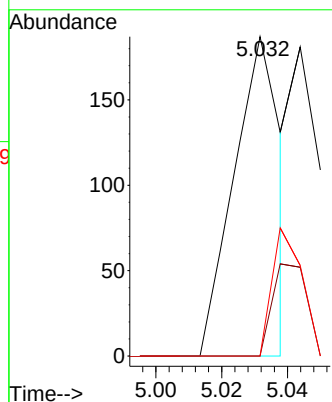
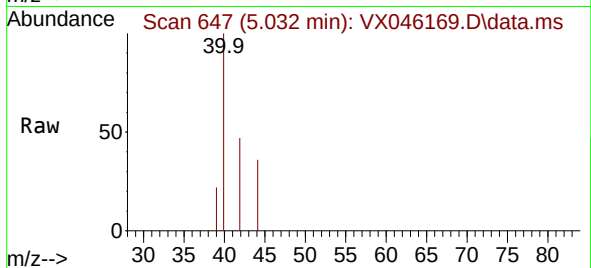
Tgt Ion: 42 Resp: 185

Ion Ratio Lower Upper

42 100

72 21.1 33.7 50.5#

71 25.4 31.4 47.2#



#31

Cyclohexane

Concen: 1.307 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.073 min

Lab File: VX046169.D

Acq: 13 May 2025 16:22

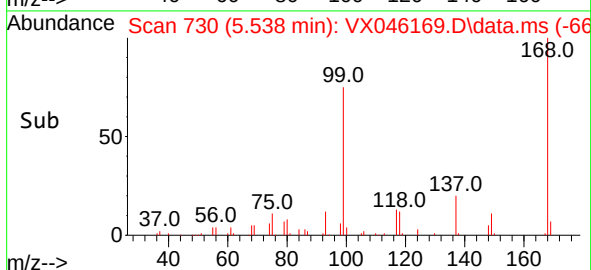
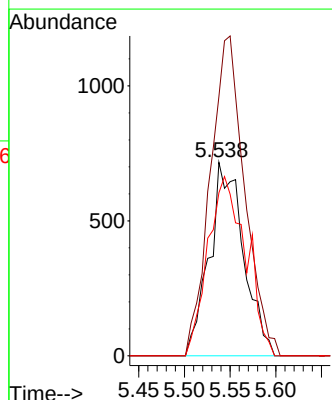
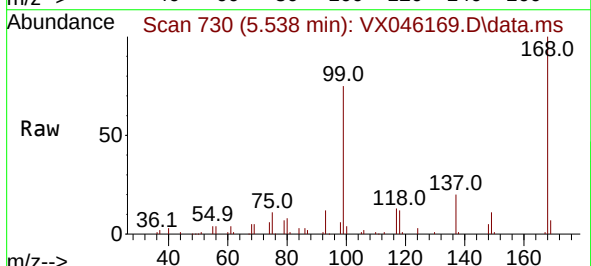
Tgt Ion: 56 Resp: 1863

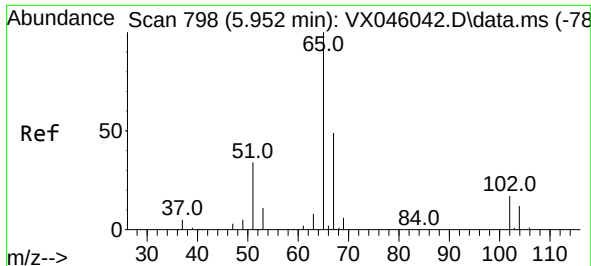
Ion Ratio Lower Upper

56 100

69 134.0 24.4 36.6#

84 84.2 66.9 100.3





#33

1,2-Dichloroethane-d4

Concen: 52.512 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX046169.D

Acq: 13 May 2025 16:22

Instrument :

MSVOA\_X

ClientSampleId :

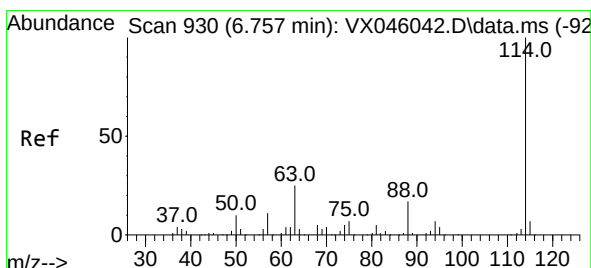
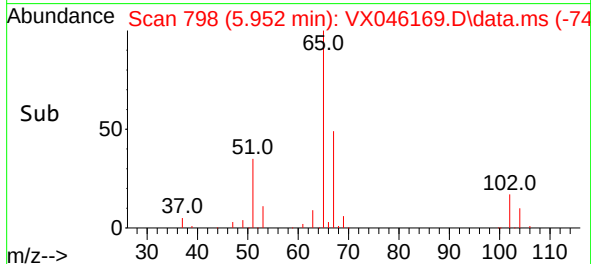
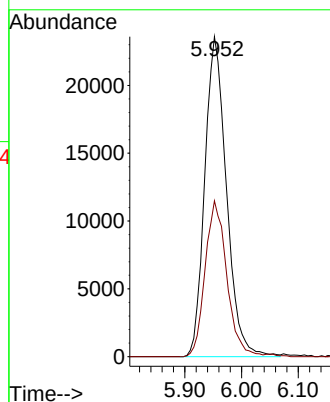
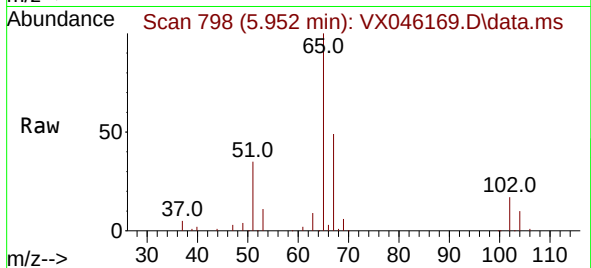
OR-636-COMP-12

Tgt Ion: 65 Resp: 62796

Ion Ratio Lower Upper

65 100

67 48.5 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: VX046169.D

Acq: 13 May 2025 16:22

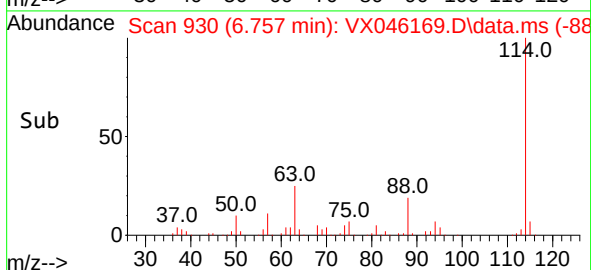
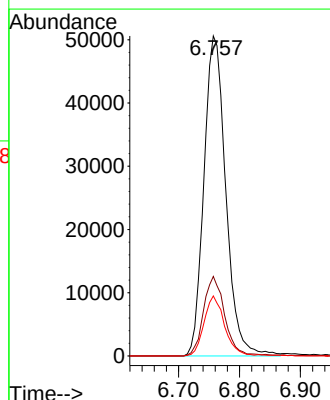
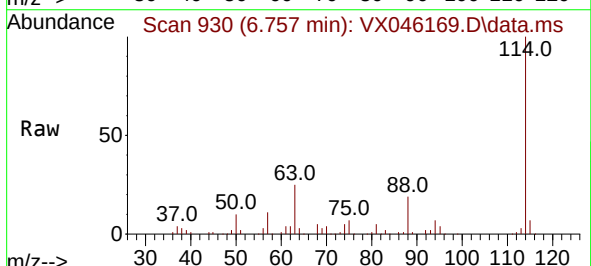
Tgt Ion: 114 Resp: 126541

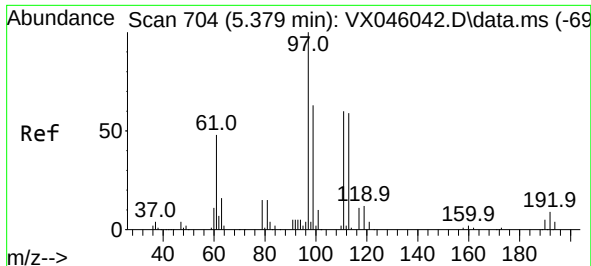
Ion Ratio Lower Upper

114 100

63 24.9 0.0 49.2

88 18.8 0.0 33.6

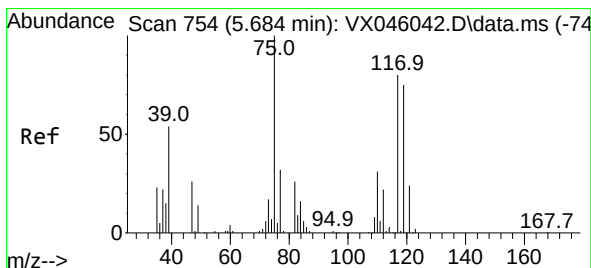
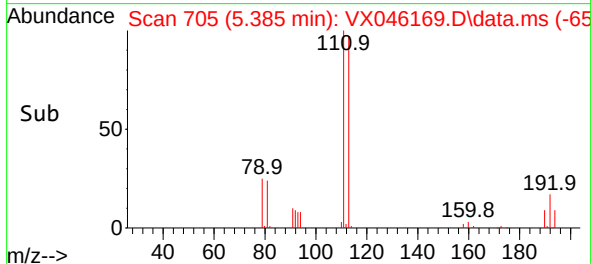
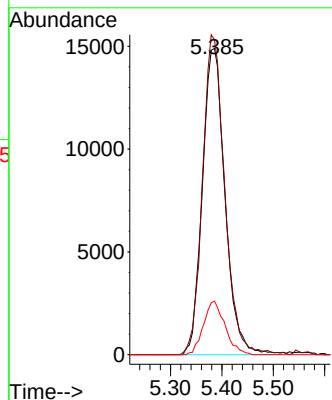
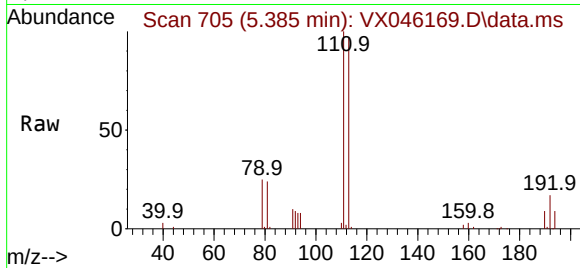




#35  
Dibromofluoromethane  
Concen: 50.005 ug/l  
RT: 5.385 min Scan# 704  
Delta R.T. 0.006 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

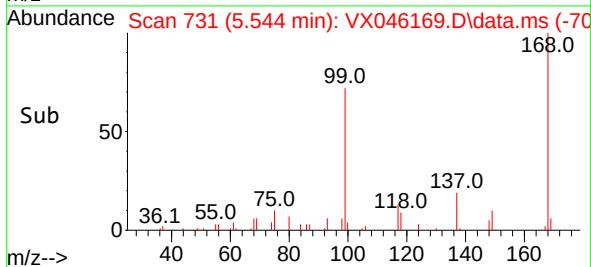
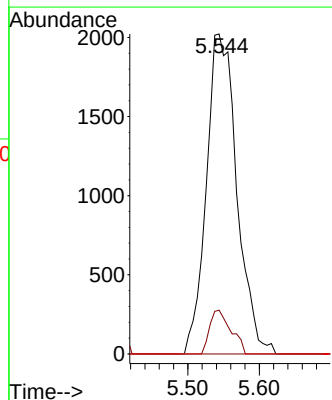
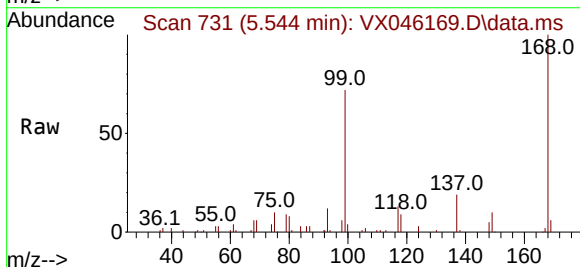
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-636-COMP-12

Tgt Ion:113 Resp: 45566  
Ion Ratio Lower Upper  
113 100  
111 102.7 83.1 124.7  
192 16.6 13.3 19.9

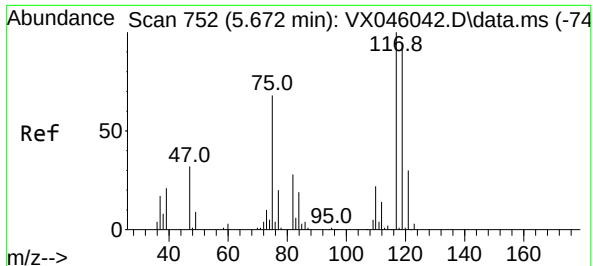


#36  
1,1-Dichloropropene  
Concen: 4.906 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.140 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

Tgt Ion: 75 Resp: 6007  
Ion Ratio Lower Upper  
75 100  
110 9.5 16.3 48.9#  
77 0.0 24.3 36.5#

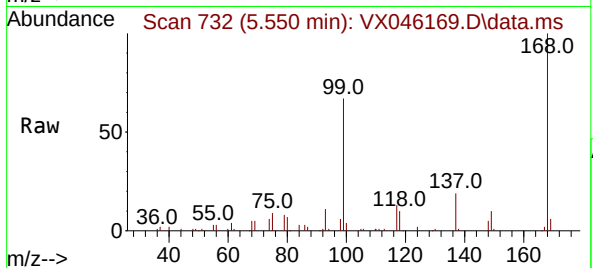




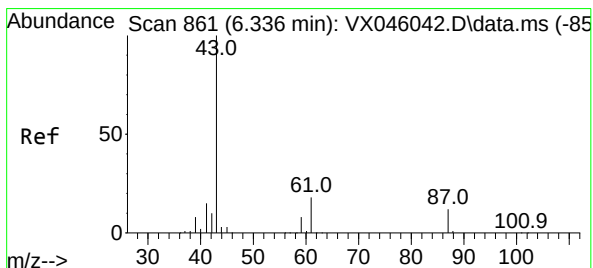
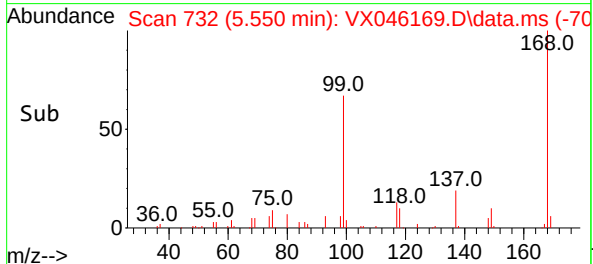
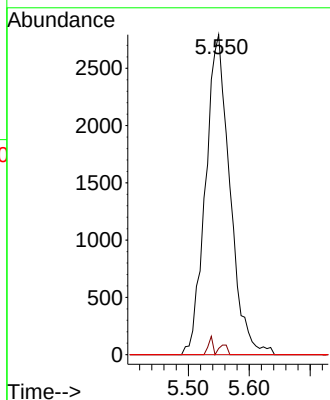


#38  
Carbon Tetrachloride  
Concen: 5.649 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-636-COMP-12

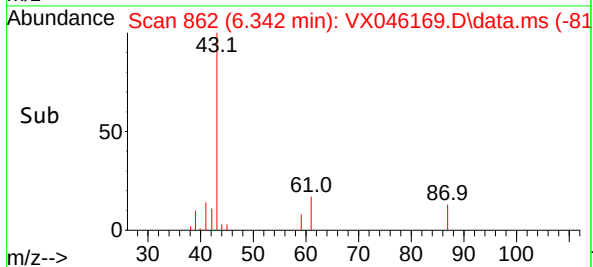
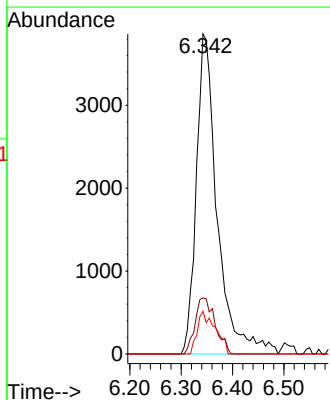
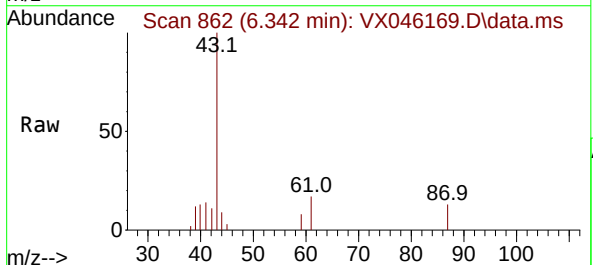


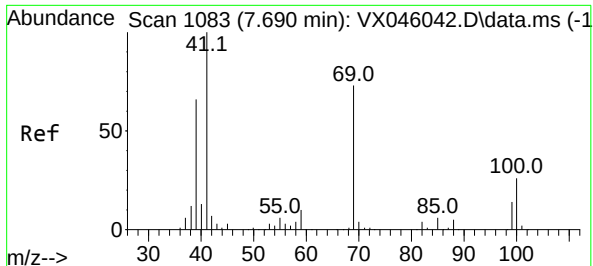
Tgt Ion:117 Resp: 7771  
Ion Ratio Lower Upper  
117 100  
119 1.9 75.2 112.8#  
121 0.0 24.2 36.4#



#43  
Isopropyl Acetate  
Concen: 4.722 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.006 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

Tgt Ion: 43 Resp: 10896  
Ion Ratio Lower Upper  
43 100  
61 16.7 14.3 21.5  
87 11.5 9.5 14.3





#48

Methyl methacrylate

Concen: 36.514 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.104 min

Lab File: VX046169.D

Acq: 13 May 2025 16:22

Instrument :

MSVOA\_X

ClientSampleId :

OR-636-COMP-12

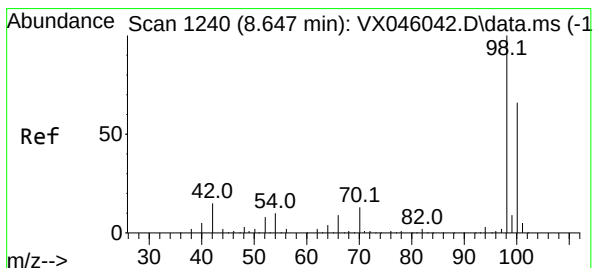
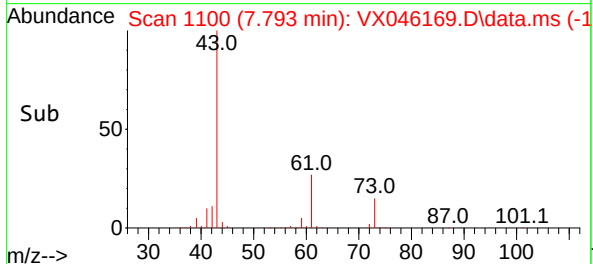
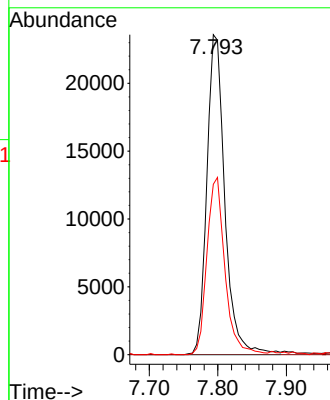
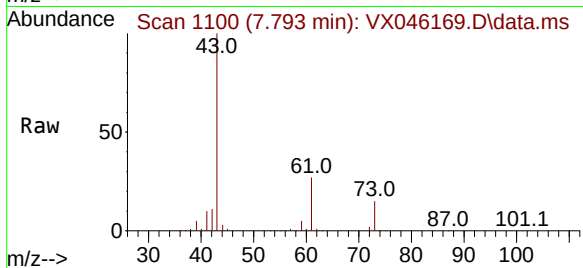
Tgt Ion: 41 Resp: 43033

Ion Ratio Lower Upper

41 100

69 0.0 58.5 87.7#

39 55.6 51.7 77.5



#50

Toluene-d8

Concen: 50.426 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX046169.D

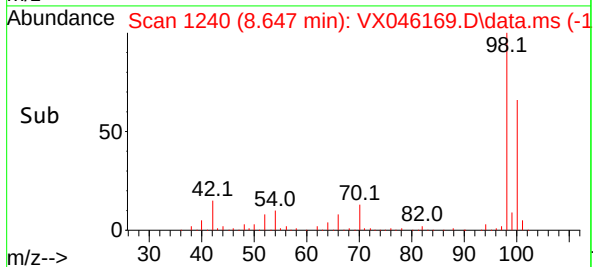
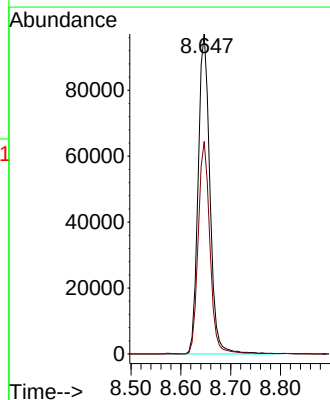
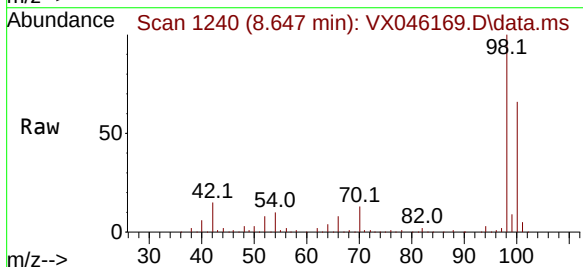
Acq: 13 May 2025 16:22

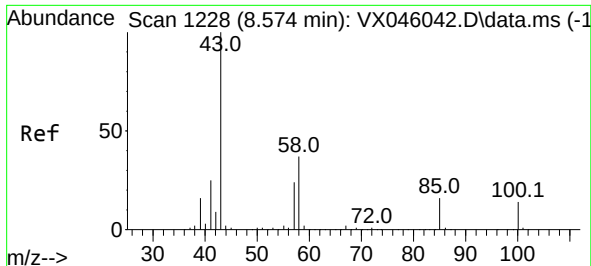
Tgt Ion: 98 Resp: 159039

Ion Ratio Lower Upper

98 100

100 66.0 53.5 80.3

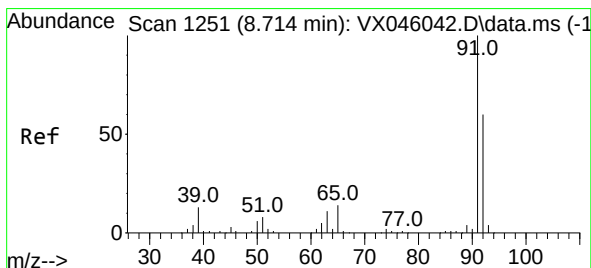
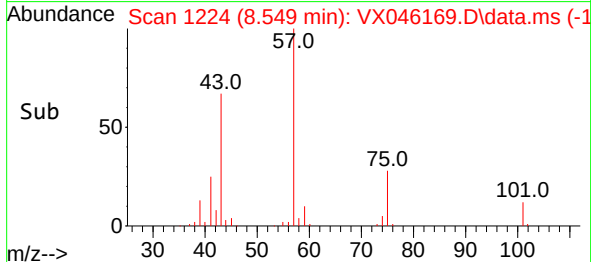
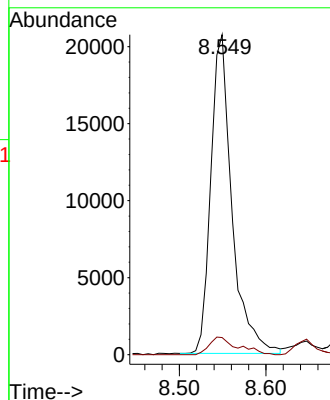
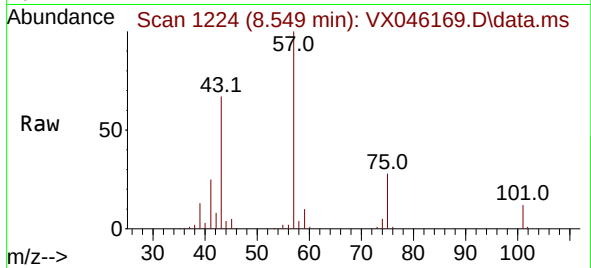




#51  
4-Methyl-2-Pentanone  
Concen: 22.874 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

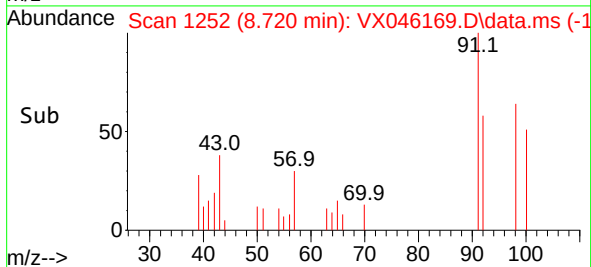
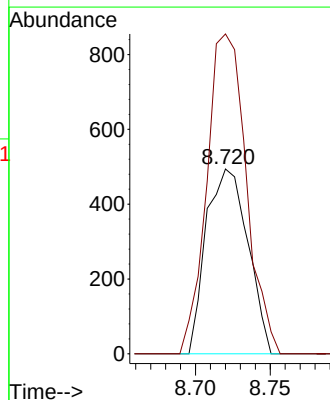
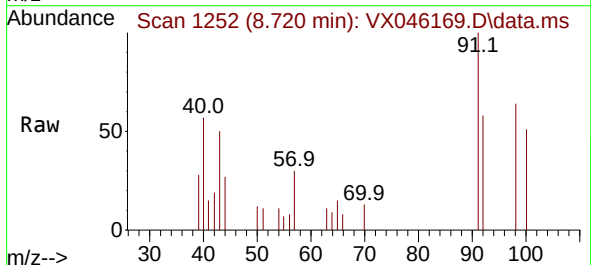
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-636-COMP-12

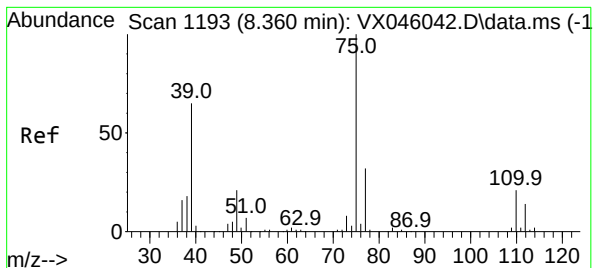
Tgt Ion: 43 Resp: 35038  
Ion Ratio Lower Upper  
43 100  
58 7.4 28.9 43.3#



#52  
Toluene  
Concen: 0.435 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. 0.006 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

Tgt Ion: 92 Resp: 956  
Ion Ratio Lower Upper  
92 100  
91 164.2 136.6 205.0





#54

cis-1,3-Dichloropropene

Concen: 10.191 ug/l

RT: 8.549 min Scan# 1193

Delta R.T. 0.189 min

Lab File: VX046169.D

Acq: 13 May 2025 16:22

Instrument :

MSVOA\_X

ClientSampleId :

OR-636-COMP-12

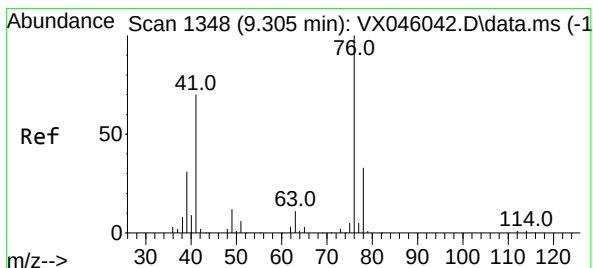
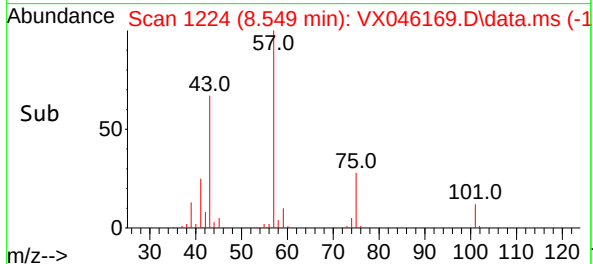
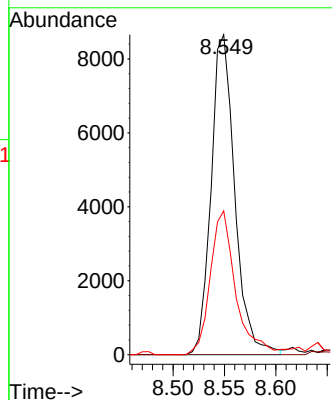
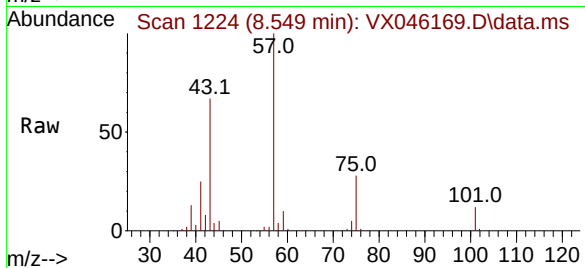
Tgt Ion: 75 Resp: 13869

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#

39 44.9 52.2 78.4#



#57

1,3-Dichloropropane

Concen: 0.814 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX046169.D

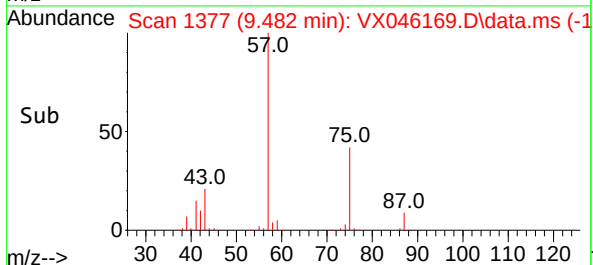
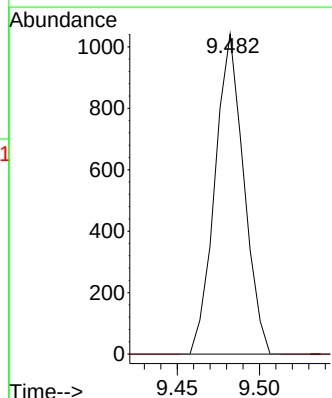
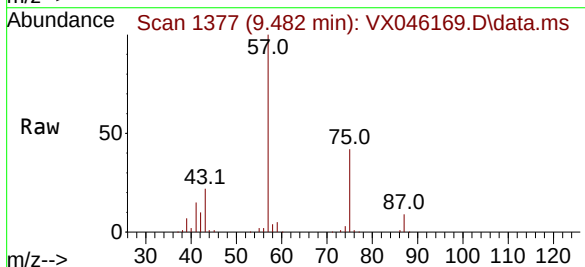
Acq: 13 May 2025 16:22

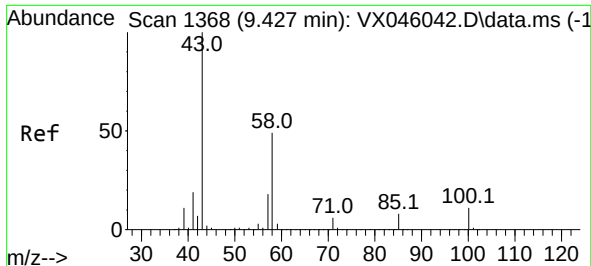
Tgt Ion: 76 Resp: 1267

Ion Ratio Lower Upper

76 100

78 0.0 26.3 39.5#

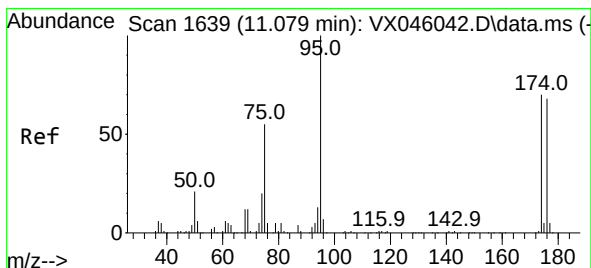
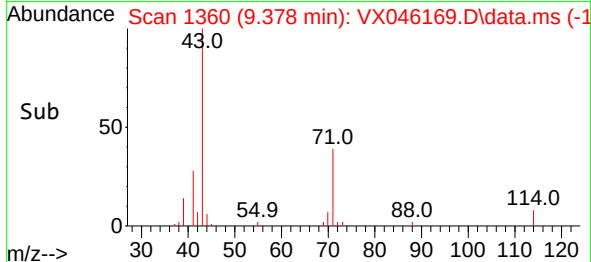
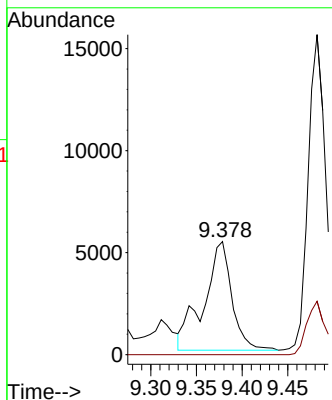
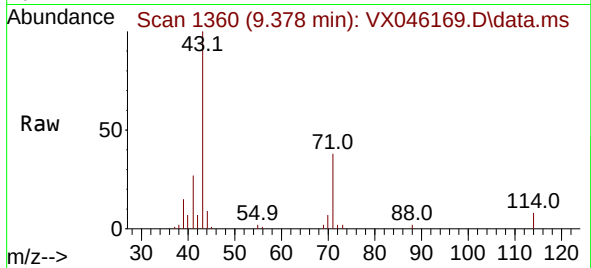




#59  
2-Hexanone  
Concen: 10.071 ug/l  
RT: 9.378 min Scan# 11  
Delta R.T. -0.049 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

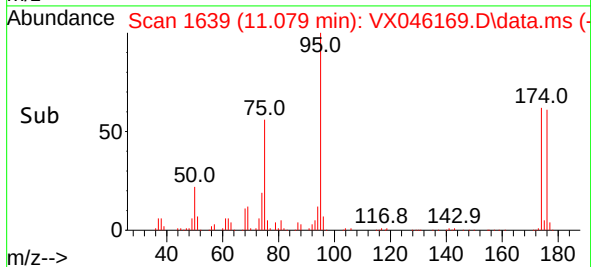
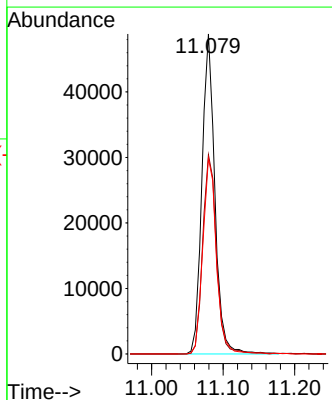
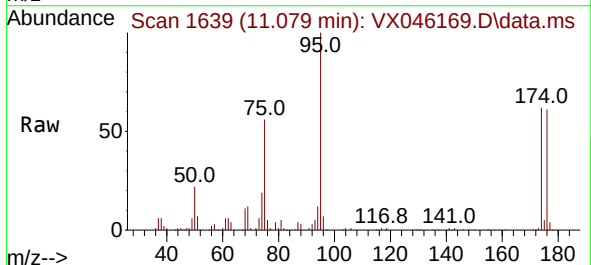
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-636-COMP-12

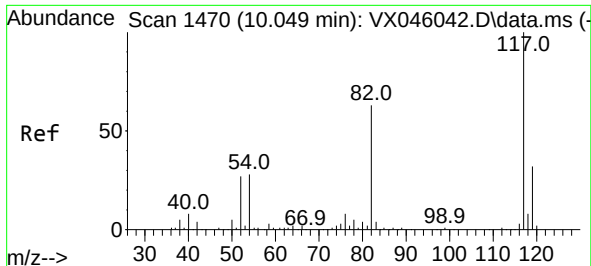
Tgt Ion: 43 Resp: 11413  
Ion Ratio Lower Upper  
43 100  
58 0.0 24.9 74.6#



#62  
4-Bromofluorobenzene  
Concen: 50.778 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

Tgt Ion: 95 Resp: 61431  
Ion Ratio Lower Upper  
95 100  
174 65.8 0.0 135.8  
176 64.3 0.0 131.4

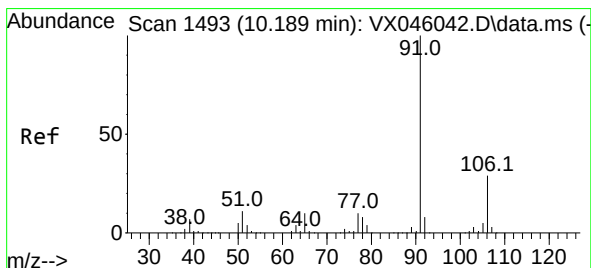
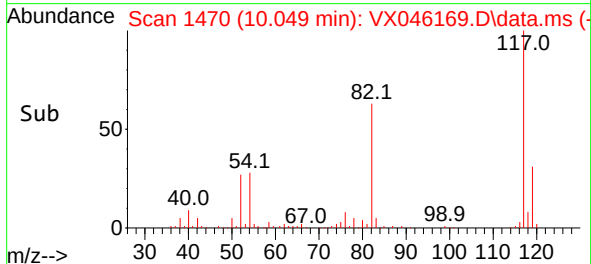
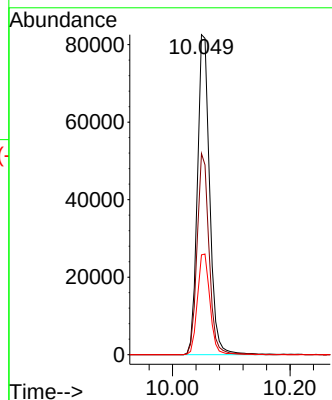
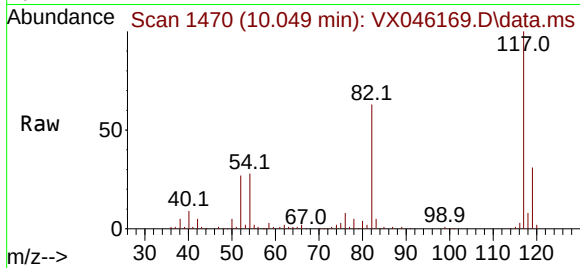




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. 0.000 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

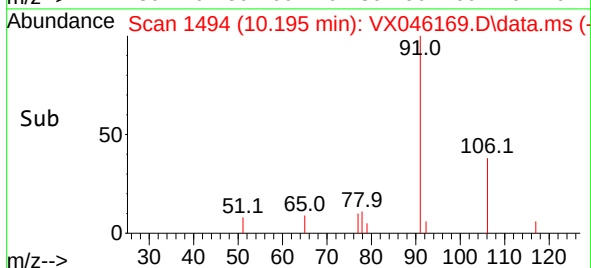
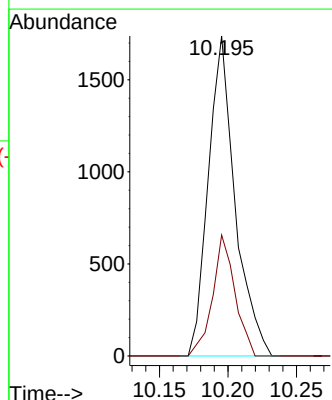
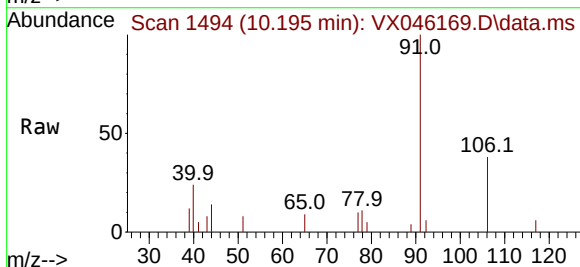
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-636-COMP-12

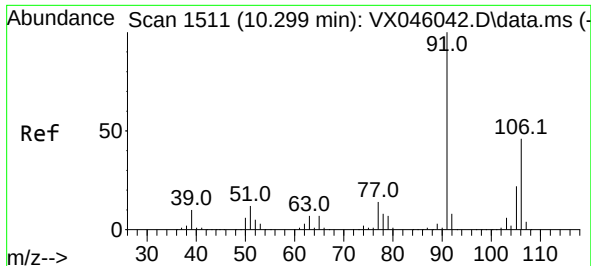
Tgt Ion:117 Resp: 119647  
Ion Ratio Lower Upper  
117 100  
82 62.8 50.6 76.0  
119 31.2 25.8 38.6



#67  
Ethyl Benzene  
Concen: 0.510 ug/l  
RT: 10.195 min Scan# 1494  
Delta R.T. 0.006 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

Tgt Ion: 91 Resp: 2354  
Ion Ratio Lower Upper  
91 100  
106 37.8 23.4 35.2#

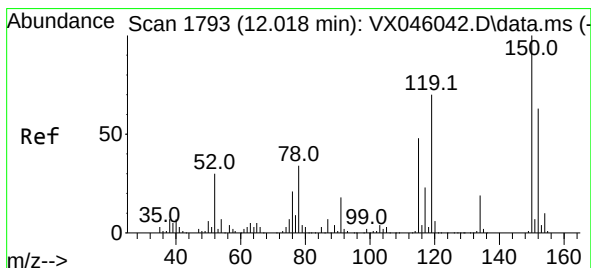
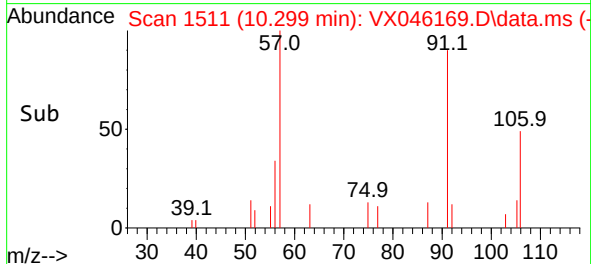
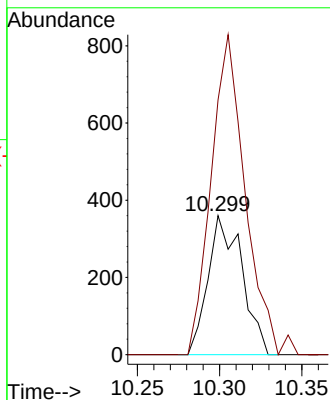
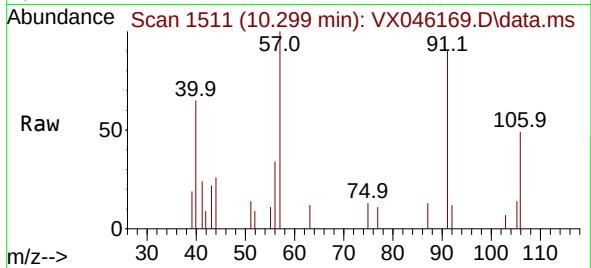




#68  
m/p-Xylenes  
Concen: 0.306 ug/l  
RT: 10.299 min Scan# 1511  
Delta R.T. 0.000 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

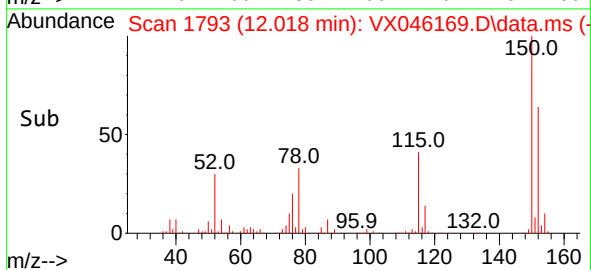
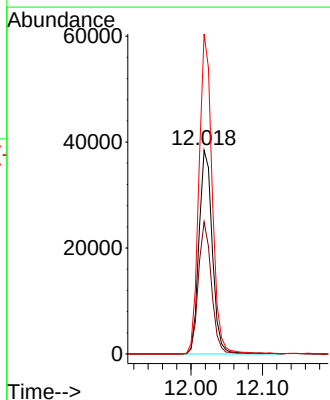
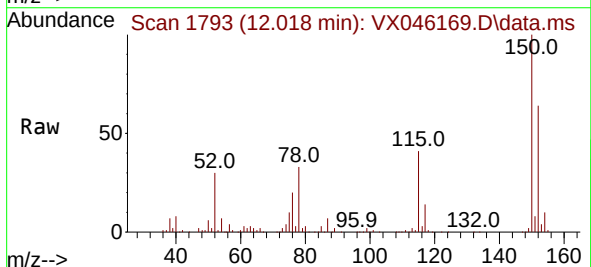
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-636-COMP-12

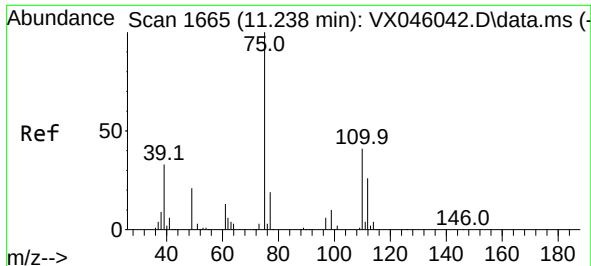
Tgt Ion:106 Resp: 516  
Ion Ratio Lower Upper  
106 100  
91 232.6 171.2 256.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. 0.000 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

Tgt Ion:152 Resp: 49746  
Ion Ratio Lower Upper  
152 100  
115 63.7 46.9 140.7  
150 155.5 0.0 351.0

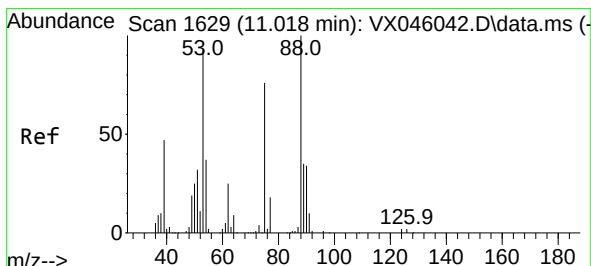
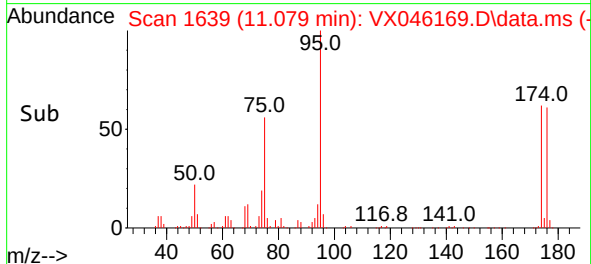
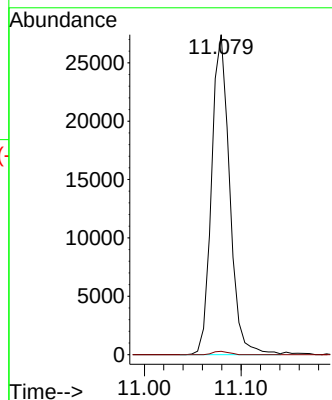
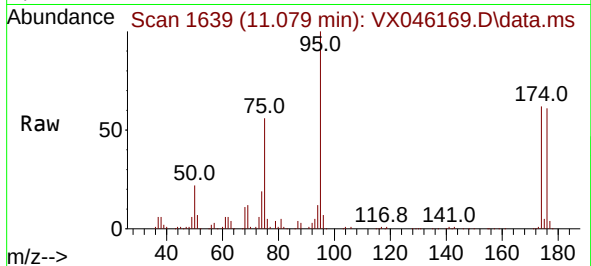




#76  
1,2,3-Trichloropropane  
Concen: 29.812 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

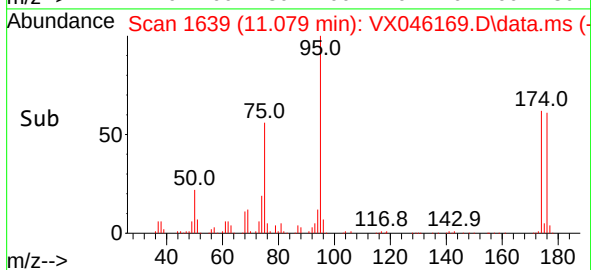
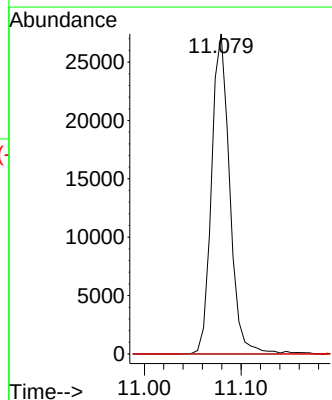
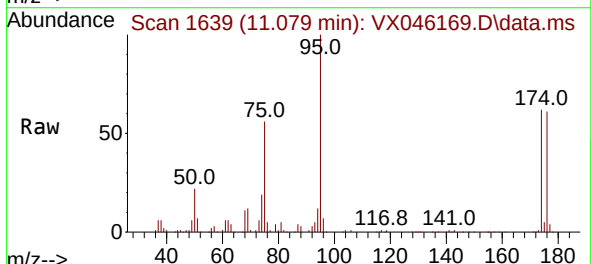
Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-636-COMP-12

Tgt Ion: 75 Resp: 35697  
Ion Ratio Lower Upper  
75 100  
77 0.9 20.5 61.5#

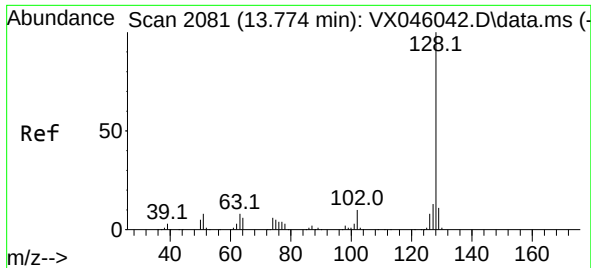


#81  
trans-1,4-Dichloro-2-butene  
Concen: 97.058 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

Tgt Ion: 75 Resp: 35697  
Ion Ratio Lower Upper  
75 100  
53 0.0 100.5 150.7#  
89 0.0 37.0 55.6#

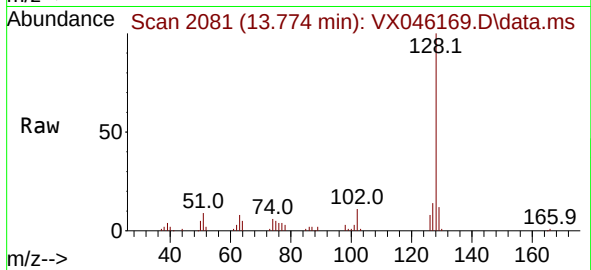






#95  
Naphthalene  
Concen: 8.462 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. 0.000 min  
Lab File: VX046169.D  
Acq: 13 May 2025 16:22

Instrument :  
MSVOA\_X  
ClientSampleId :  
OR-636-COMP-12



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 29355 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 13.5  | 10.4  | 15.6  |
| 129      | 10.9  | 8.6   | 13.0  |

