

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX052925\  
 Data File : VX046404.D  
 Acq On : 29 May 2025 17:07  
 Operator : JC/MD  
 Sample : Q2155-04 50X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 444

Quant Time: May 30 01:33:38 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

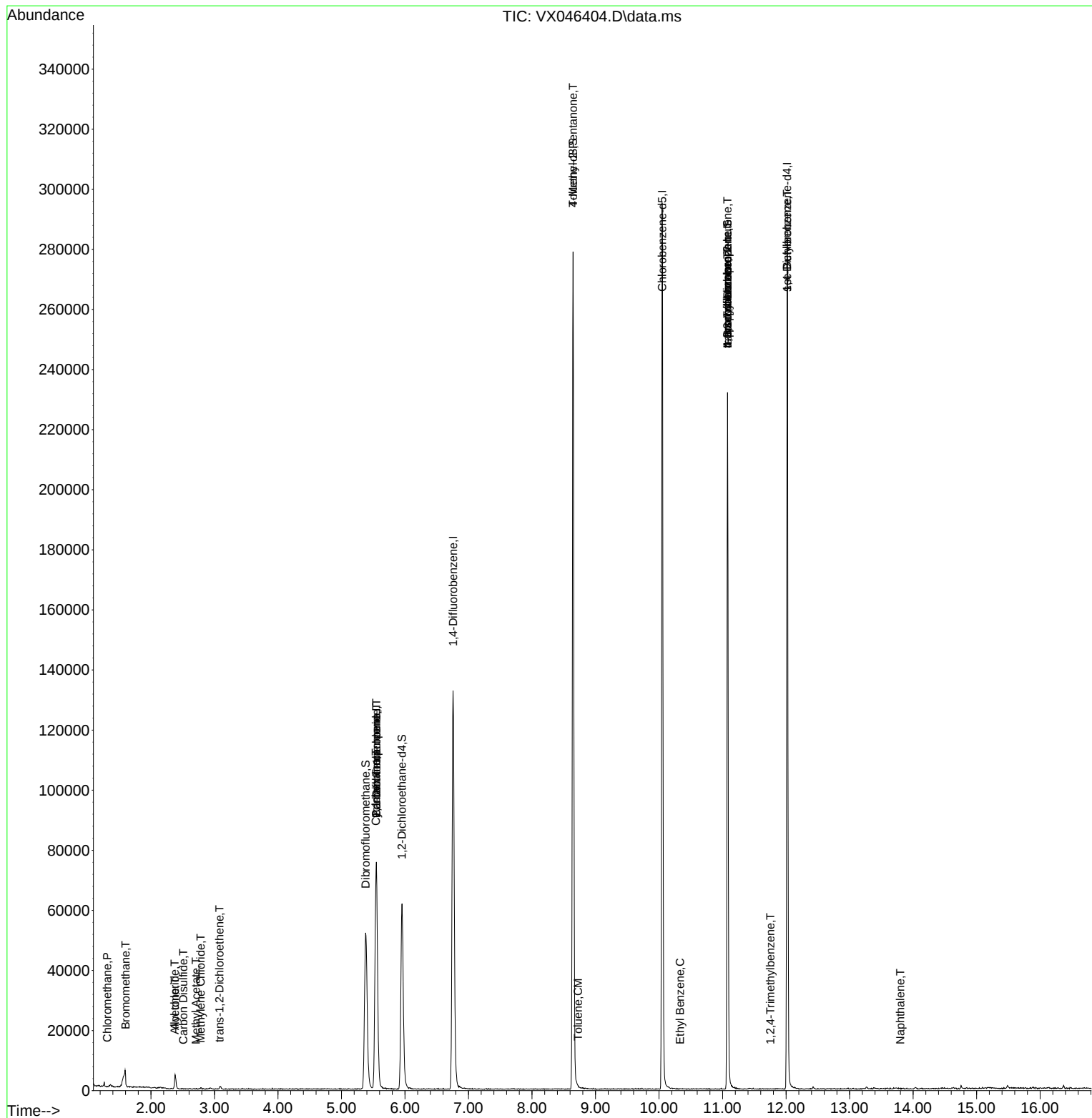
| Compound                      | R.T.           | QIon | Response            | Conc   | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|--------|--------|----------|
| -----                         |                |      |                     |        |        |          |
| Internal Standards            |                |      |                     |        |        |          |
| 1) Pentafluorobenzene         | 5.550          | 168  | 63188               | 50.000 | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757          | 114  | 125445              | 50.000 | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.049         | 117  | 119851              | 50.000 | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 51885               | 50.000 | ug/l   | 0.00     |
|                               |                |      |                     |        |        |          |
| System Monitoring Compounds   |                |      |                     |        |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 63916               | 54.257 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = 108.520% |        |        |          |
| 35) Dibromofluoromethane      | 5.379          | 113  | 45393               | 50.250 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = 100.500% |        |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 159553              | 51.031 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = 102.060% |        |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 62048               | 51.737 | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = 103.480% |        |        |          |
|                               |                |      |                     |        |        |          |
| Target Compounds              |                |      |                     |        | Qvalue |          |
| 3) Chloromethane              | 1.313          | 50   | 52                  | 0.055  | ug/l # | 43       |
| 5) Bromomethane               | 1.599          | 94   | 56                  | 0.138  | ug/l # | 4        |
| 14) Allyl chloride            | 2.374          | 41   | 148                 | 0.103  | ug/l # | 19       |
| 16) Acetone                   | 2.380          | 43   | 5093                | 10.783 | ug/l   | 99       |
| 17) Carbon Disulfide          | 2.508          | 76   | 49                  | 0.028  | ug/l # | 76       |
| 18) Methyl Acetate            | 2.709          | 43   | 101                 | 0.092  | ug/l # | 55       |
| 20) Methylene Chloride        | 2.782          | 84   | 134                 | 0.148  | ug/l # | 59       |
| 21) trans-1,2-Dichloroethene  | 3.081          | 96   | 352                 | 0.467  | ug/l # | 88       |
| 31) Cyclohexane               | 5.544          | 56   | 2061                | 1.468  | ug/l # | 8        |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 6548                | 5.395  | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 7667                | 5.622  | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 8.647          | 43   | 1048                | 0.690  | ug/l # | 1        |
| 52) Toluene                   | 8.726          | 92   | 48                  | 0.022  | ug/l # | 39       |
| 67) Ethyl Benzene             | 10.329         | 91   | 24                  | 0.005  | ug/l # | 45       |
| 73) Isopropylbenzene          | 11.079         | 105  | 29                  | 0.007  | ug/l # | 49       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 35435               | 28.373 | ug/l # | 36       |
| 78) n-propylbenzene           | 11.079         | 91   | 299                 | 0.064  | ug/l # | 54       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 35435               | 92.374 | ug/l # | 1        |
| 84) 1,2,4-Trimethylbenzene    | 11.756         | 105  | 62                  | 0.018  | ug/l # | 33       |
| 85) sec-Butylbenzene          | 12.018         | 105  | 35                  | 0.008  | ug/l # | 57       |
| 95) Naphthalene               | 13.798         | 128  | 20                  | 0.006  | ug/l # | 69       |
| -----                         |                |      |                     |        |        |          |

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

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Instrument :  
MSVOA\_X  
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Quant Title : SW846 8260  
QLast Update : Tue May 06 07:12:22 2025  
Response via : Initial Calibration

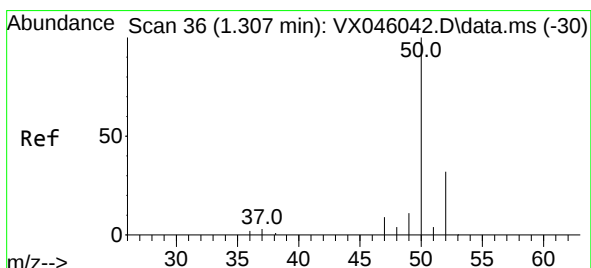
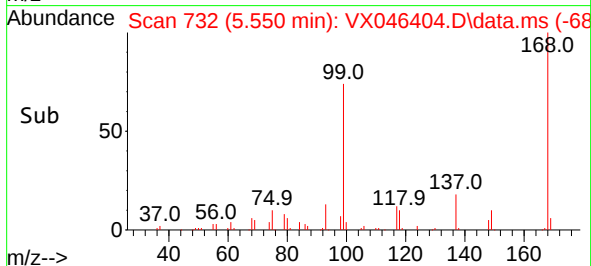
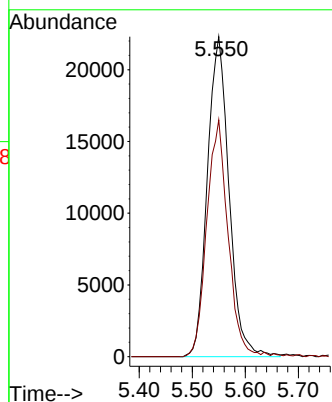
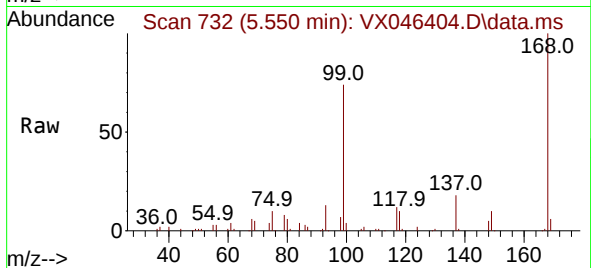




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

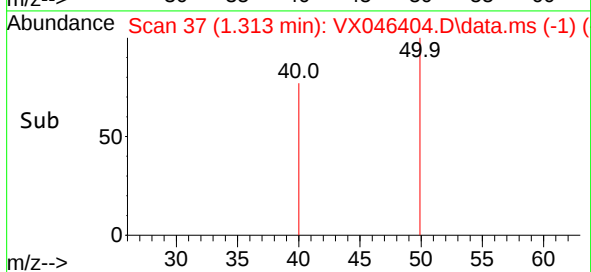
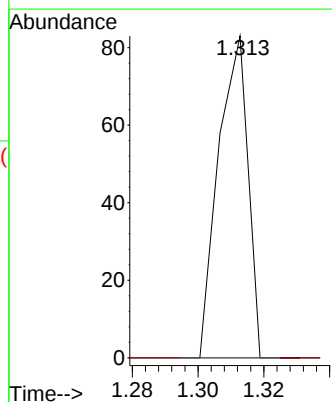
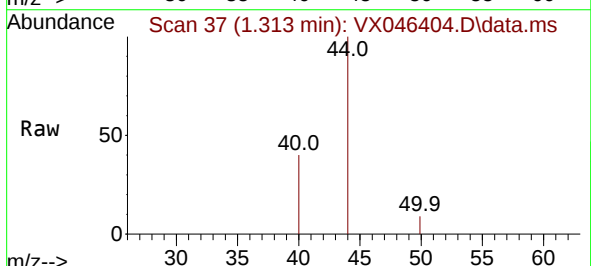
Instrument :  
MSVOA\_X  
ClientSampleId :  
444

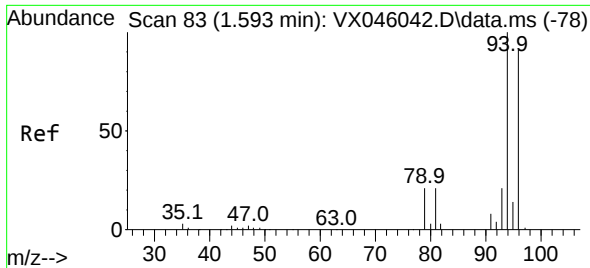
Tgt Ion:168 Resp: 63188  
Ion Ratio Lower Upper  
168 100  
99 74.0 54.9 82.3



#3  
Chloromethane  
Concen: 0.055 ug/l  
RT: 1.313 min Scan# 37  
Delta R.T. 0.006 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

Tgt Ion: 50 Resp: 52  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.4 38.2#

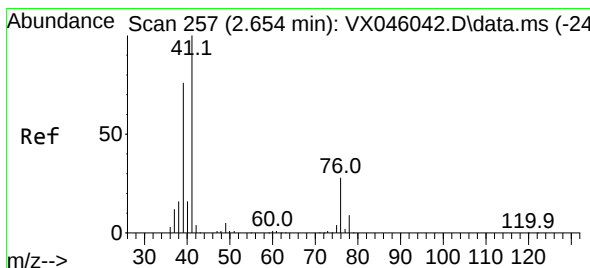
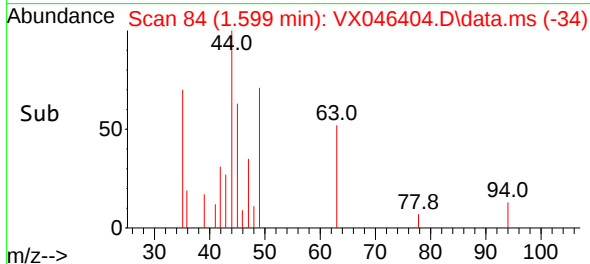
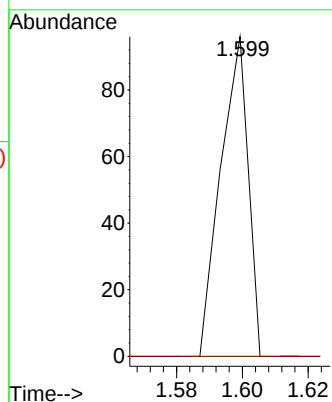
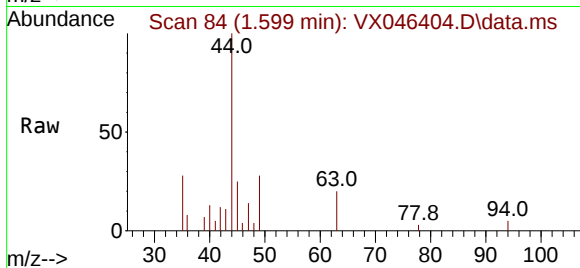




#5  
Bromomethane  
Concen: 0.138 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.006 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

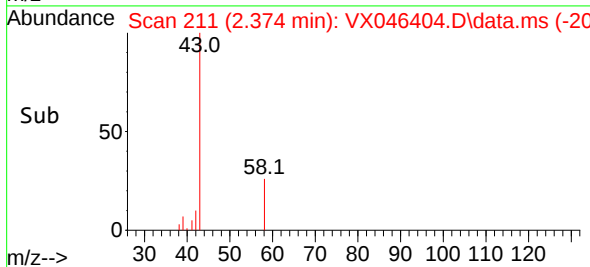
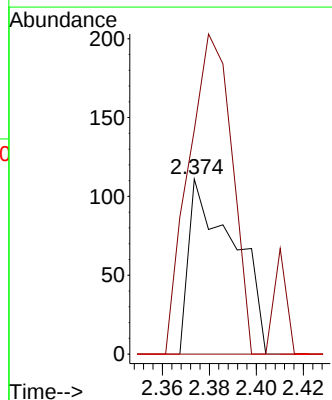
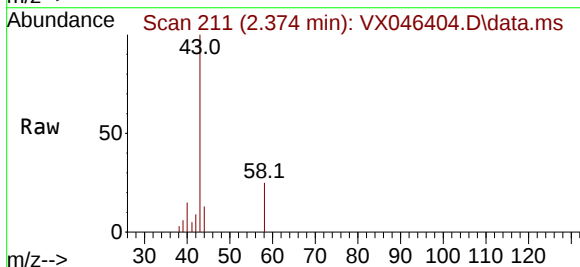
Instrument :  
MSVOA\_X  
ClientSampleId :  
444

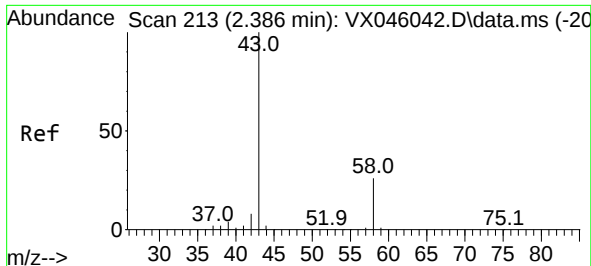
Tgt Ion: 94 Resp: 56  
Ion Ratio Lower Upper  
94 100  
96 0.0 72.8 109.2#



#14  
Allyl chloride  
Concen: 0.103 ug/l  
RT: 2.374 min Scan# 211  
Delta R.T. -0.280 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

Tgt Ion: 41 Resp: 148  
Ion Ratio Lower Upper  
41 100  
39 154.1 60.6 90.8#  
76 0.0 24.9 37.3#

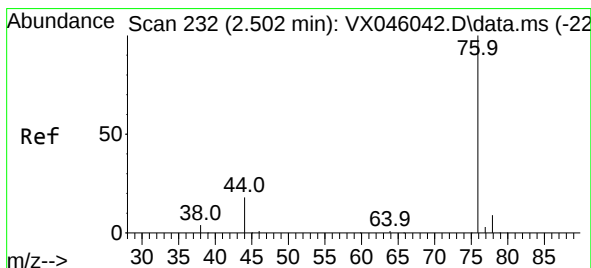
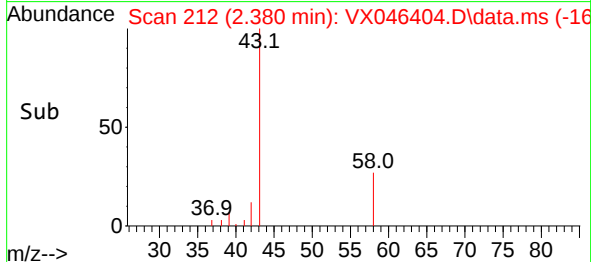
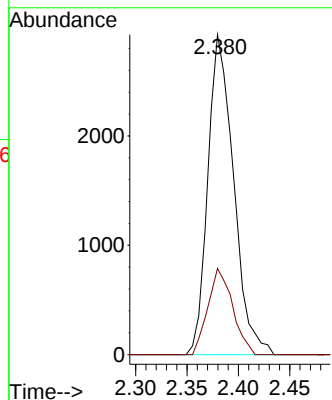
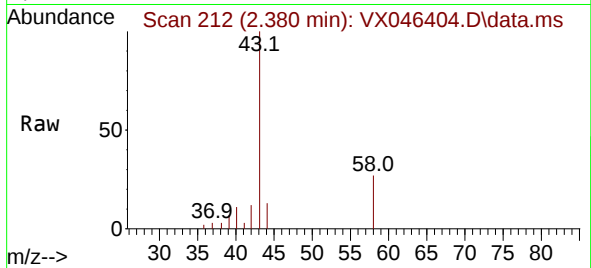




#16  
Acetone  
Concen: 10.783 ug/l  
RT: 2.380 min Scan# 213  
Delta R.T. -0.006 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

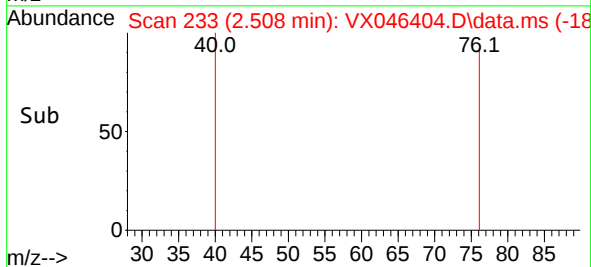
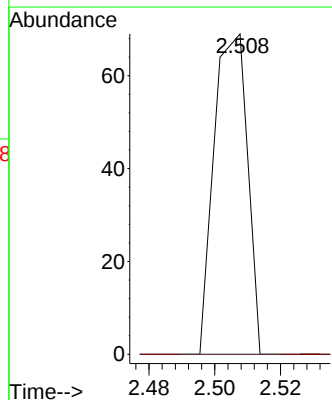
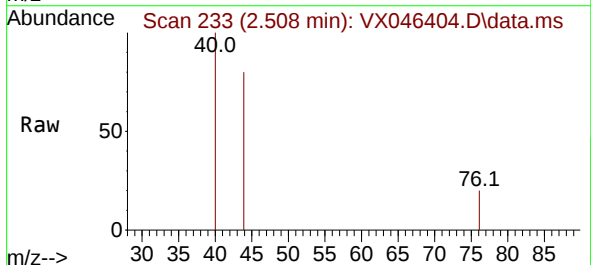
Instrument :  
MSVOA\_X  
ClientSampleId :  
444

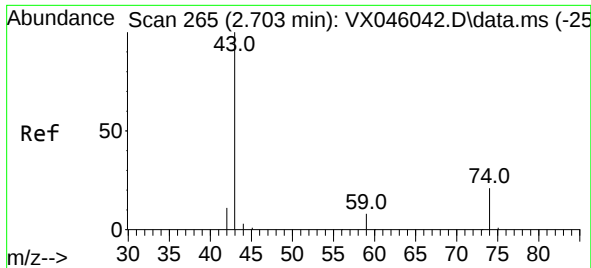
Tgt Ion: 43 Resp: 5093  
Ion Ratio Lower Upper  
43 100  
58 26.9 21.2 31.8



#17  
Carbon Disulfide  
Concen: 0.028 ug/l  
RT: 2.508 min Scan# 233  
Delta R.T. 0.006 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

Tgt Ion: 76 Resp: 49  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.0 10.4#

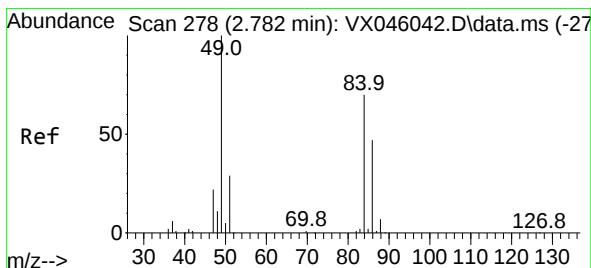
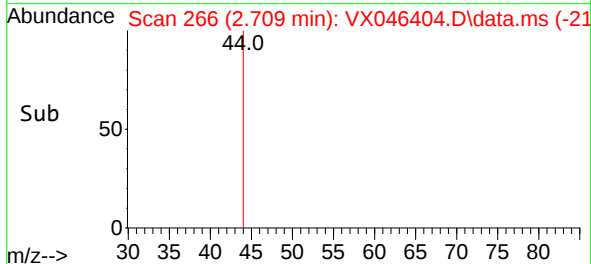
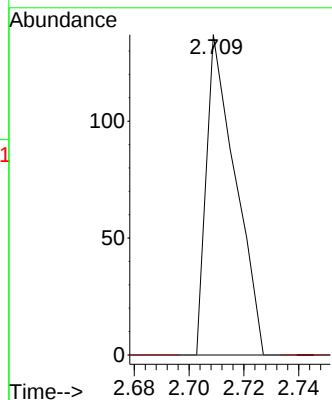
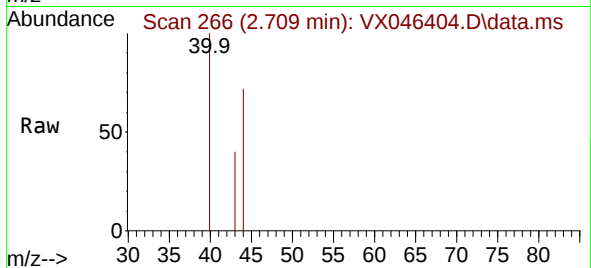




#18  
Methyl Acetate  
Concen: 0.092 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.006 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

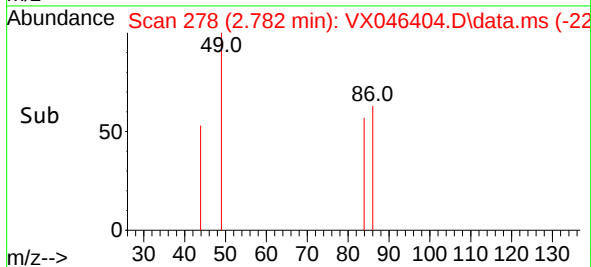
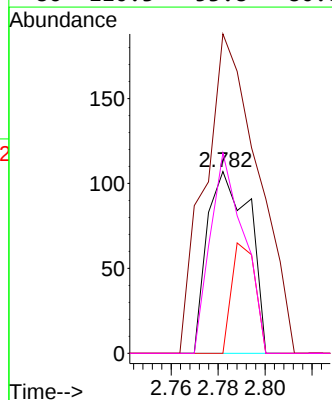
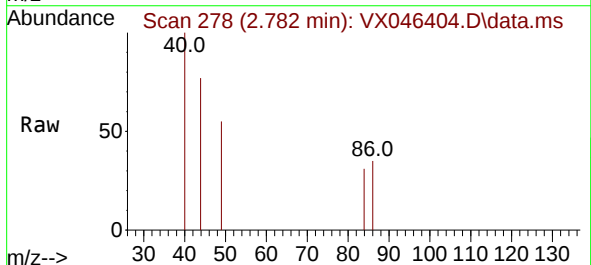
Instrument :  
MSVOA\_X  
ClientSampleId :  
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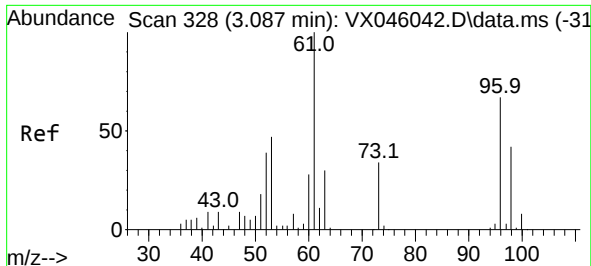
Tgt Ion: 43 Resp: 101  
Ion Ratio Lower Upper  
43 100  
74 0.0 16.7 25.1#



#20  
Methylene Chloride  
Concen: 0.148 ug/l  
RT: 2.782 min Scan# 278  
Delta R.T. -0.000 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

Tgt Ion: 84 Resp: 134  
Ion Ratio Lower Upper  
84 100  
49 175.7 113.9 170.9#  
51 0.0 33.5 50.3#  
86 110.3 53.8 80.8#

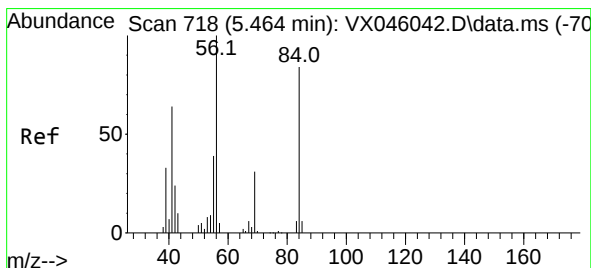
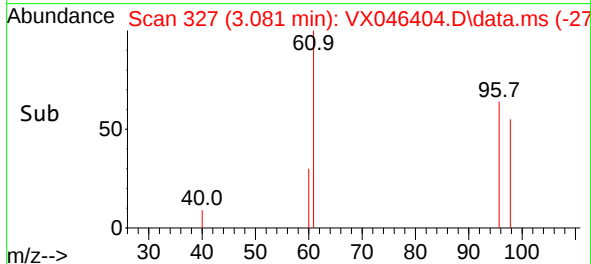
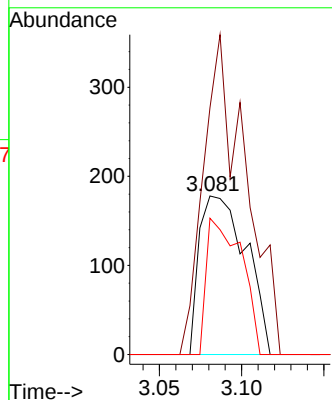
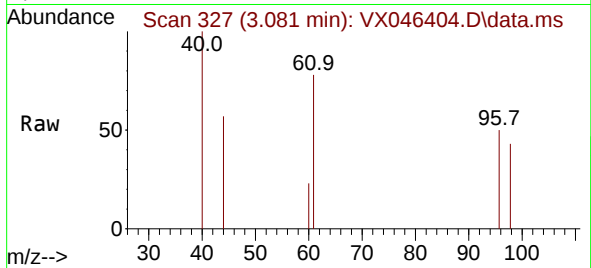




#21  
trans-1,2-Dichloroethene  
Concen: 0.467 ug/l  
RT: 3.081 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

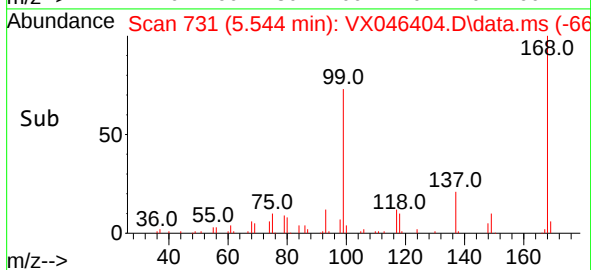
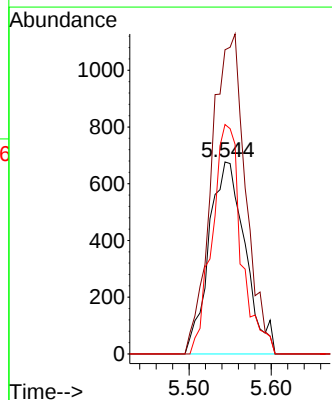
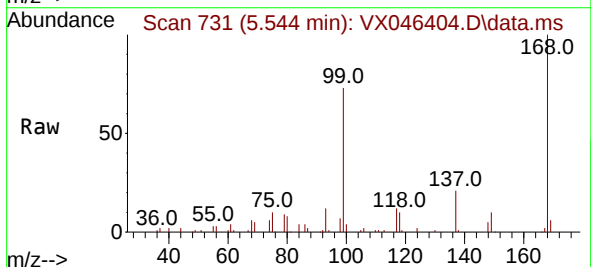
Instrument :  
MSVOA\_X  
ClientSampleId :  
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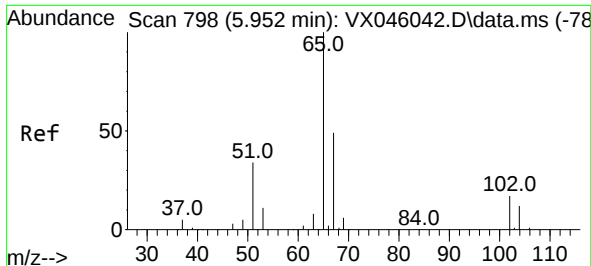
Tgt Ion: 96 Resp: 352  
Ion Ratio Lower Upper  
96 100  
61 155.6 119.5 179.3  
98 86.0 50.0 75.0#



#31  
Cyclohexane  
Concen: 1.468 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. 0.079 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

Tgt Ion: 56 Resp: 2061  
Ion Ratio Lower Upper  
56 100  
69 158.3 24.4 36.6#  
84 119.5 66.9 100.3#





#33

1,2-Dichloroethane-d4

Concen: 54.257 ug/l

RT: 5.952 min Scan# 798

Delta R.T. -0.000 min

Lab File: VX046404.D

Acq: 29 May 2025 17:07

Instrument :

MSVOA\_X

ClientSampleId :

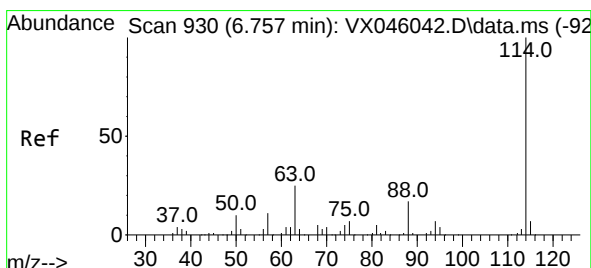
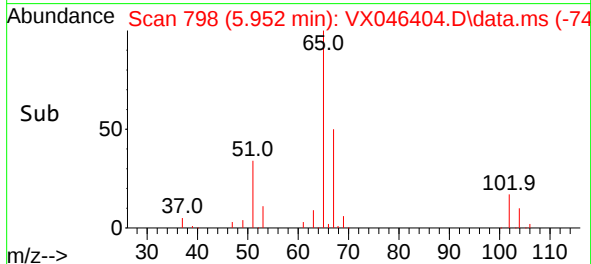
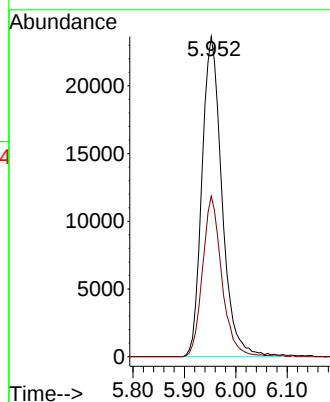
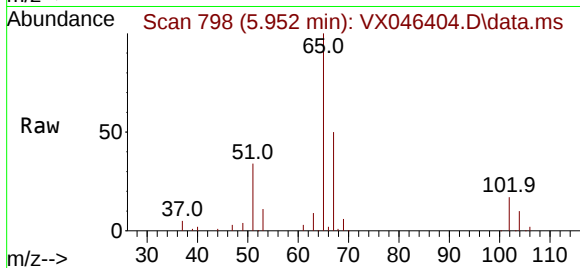
444

Tgt Ion: 65 Resp: 63916

Ion Ratio Lower Upper

65 100

67 48.2 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: VX046404.D

Acq: 29 May 2025 17:07

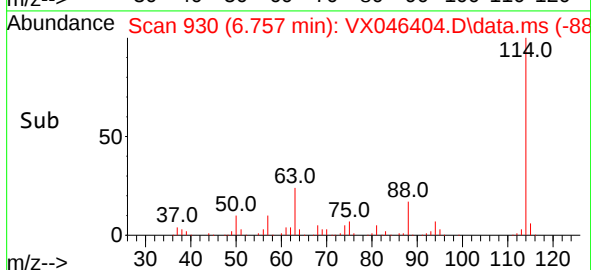
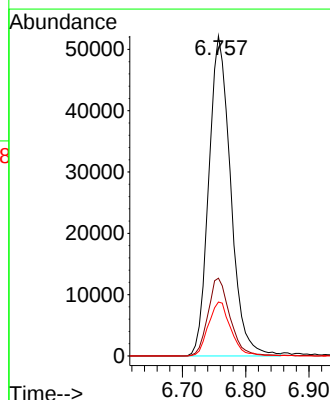
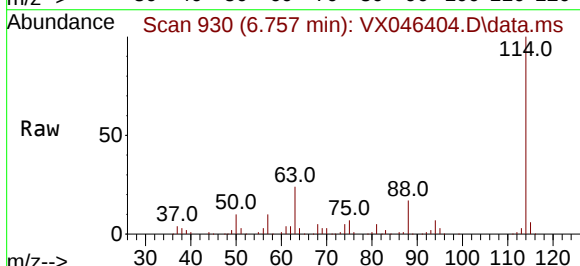
Tgt Ion: 114 Resp: 125445

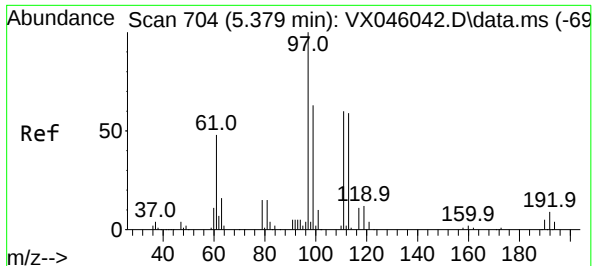
Ion Ratio Lower Upper

114 100

63 24.3 0.0 49.2

88 16.8 0.0 33.6

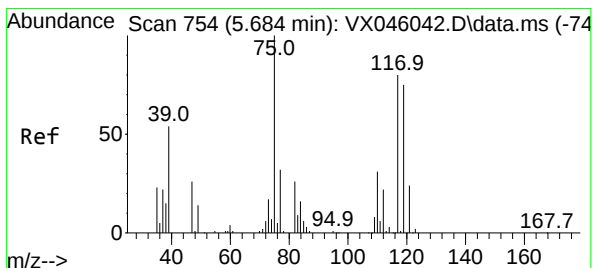
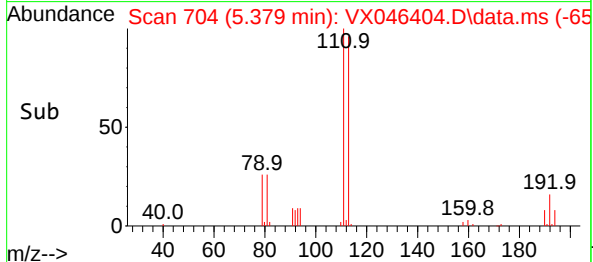
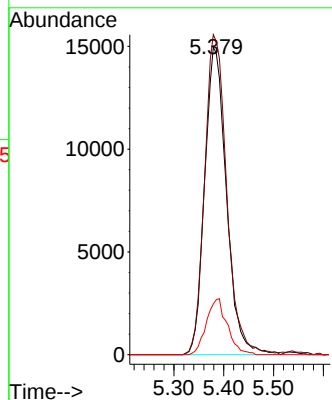
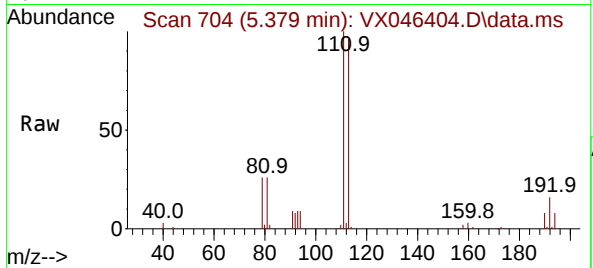




#35  
Dibromofluoromethane  
Concen: 50.250 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. -0.000 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

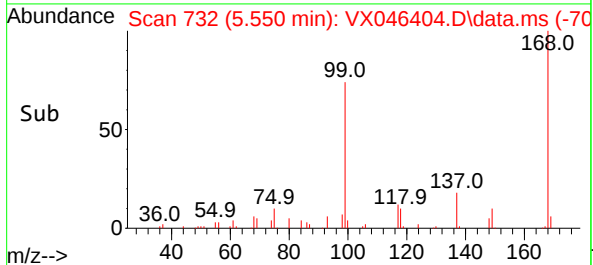
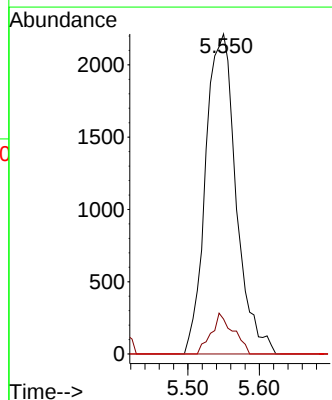
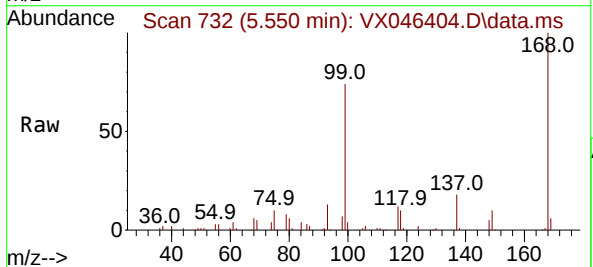
Instrument :  
MSVOA\_X  
ClientSampleId :  
444

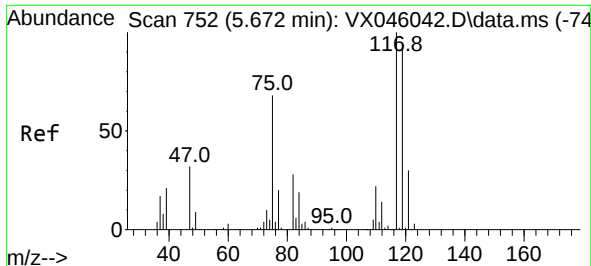
Tgt Ion:113 Resp: 45393  
Ion Ratio Lower Upper  
113 100  
111 105.4 83.1 124.7  
192 17.5 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 5.395 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.134 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

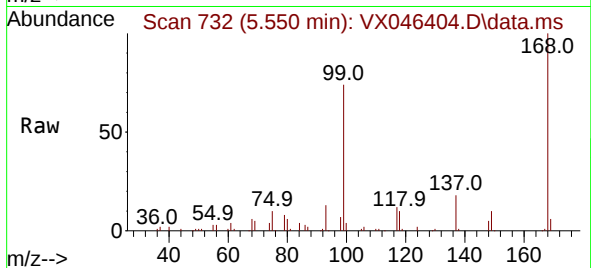
Tgt Ion: 75 Resp: 6548  
Ion Ratio Lower Upper  
75 100  
110 9.2 16.3 48.9#  
77 0.0 24.3 36.5#



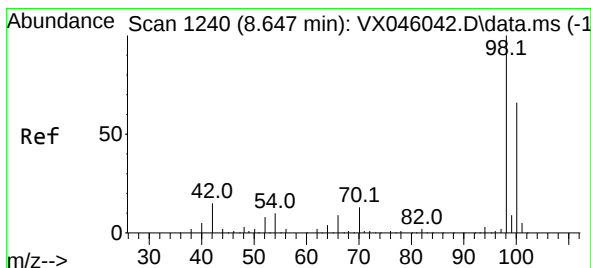
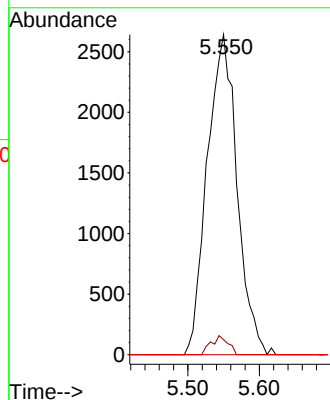
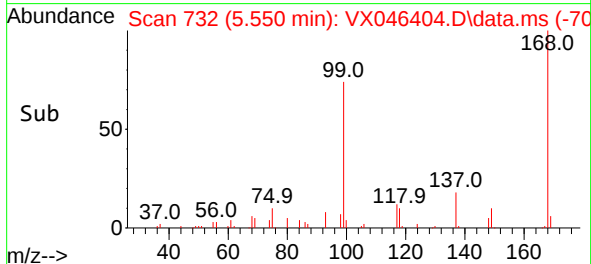


#38  
Carbon Tetrachloride  
Concen: 5.622 ug/l  
RT: 5.550 min Scan# 714  
Delta R.T. -0.122 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

Instrument :  
MSVOA\_X  
ClientSampleId :  
444

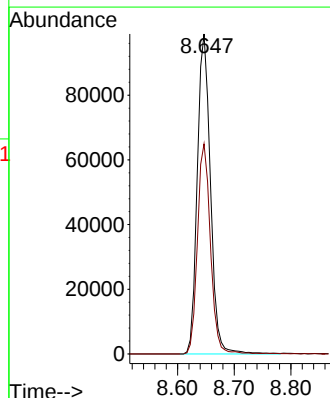
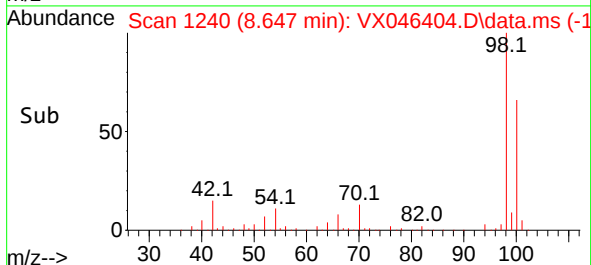
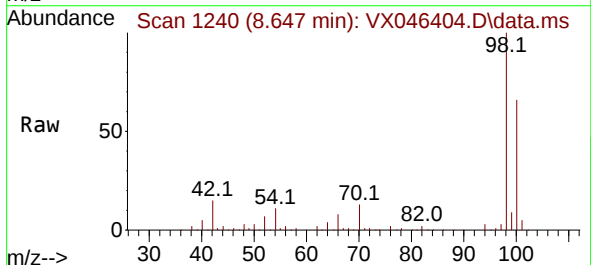


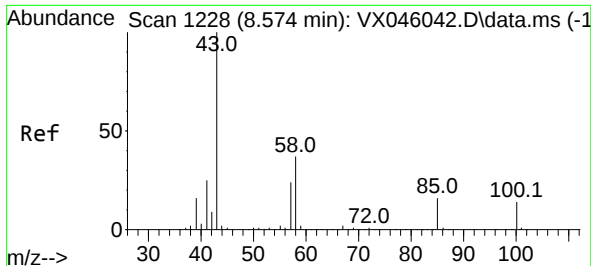
Tgt Ion:117 Resp: 7667  
Ion Ratio Lower Upper  
117 100  
119 4.7 75.2 112.8#  
121 0.0 24.2 36.4#



#50  
Toluene-d8  
Concen: 51.031 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

Tgt Ion: 98 Resp: 159553  
Ion Ratio Lower Upper  
98 100  
100 64.7 53.5 80.3

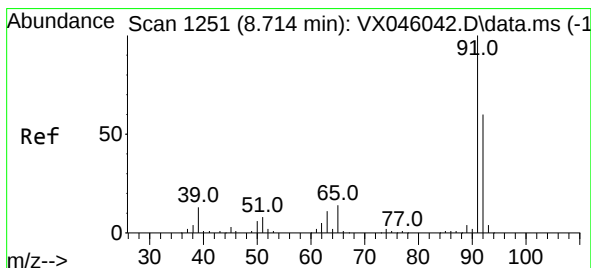
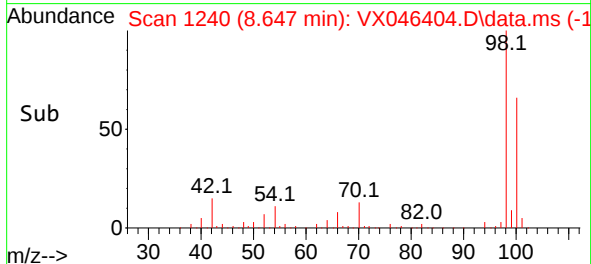
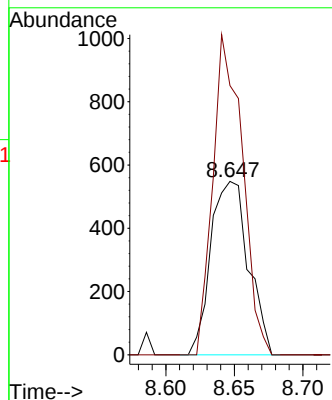
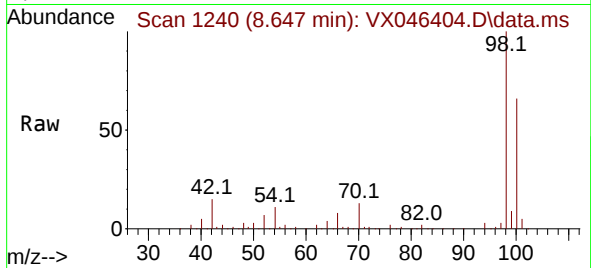




#51  
4-Methyl-2-Pentanone  
Concen: 0.690 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.073 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

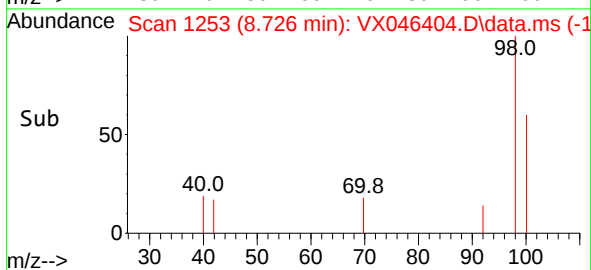
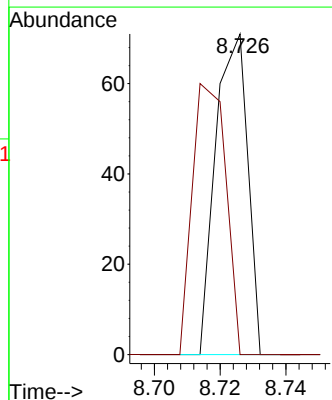
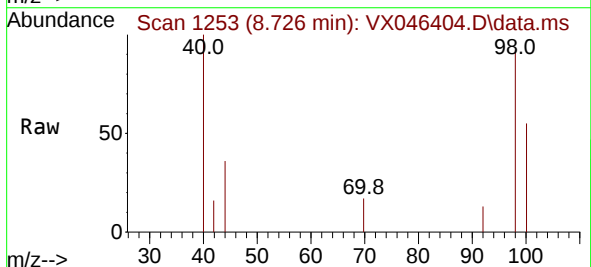
Instrument :  
MSVOA\_X  
ClientSampleId :  
444

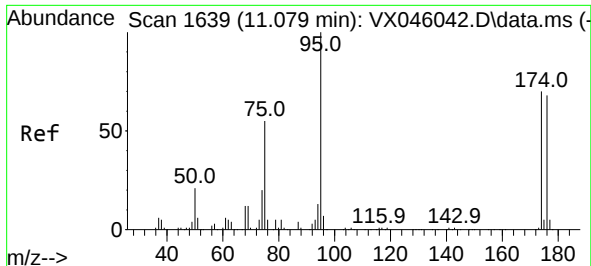
Tgt Ion: 43 Resp: 1048  
Ion Ratio Lower Upper  
43 100  
58 144.8 28.9 43.3#



#52  
Toluene  
Concen: 0.022 ug/l  
RT: 8.726 min Scan# 1253  
Delta R.T. 0.012 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

Tgt Ion: 92 Resp: 48  
Ion Ratio Lower Upper  
92 100  
91 87.5 136.6 205.0#

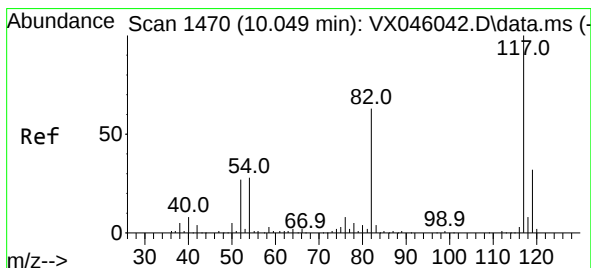
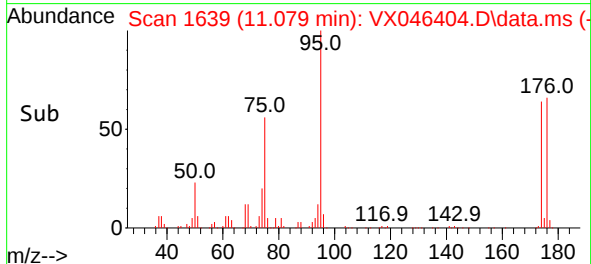
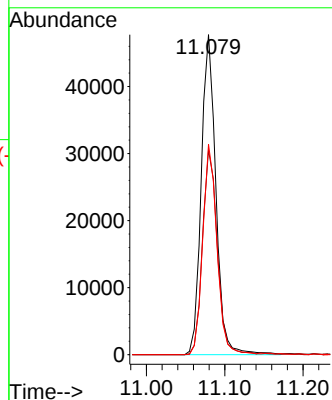
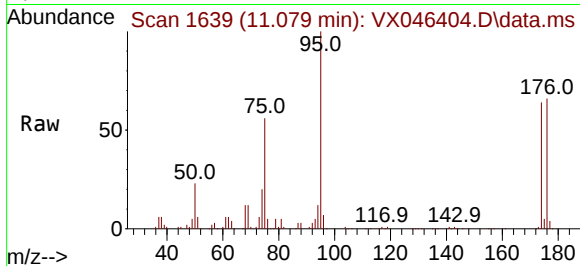




#62  
4-Bromofluorobenzene  
Concen: 51.737 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

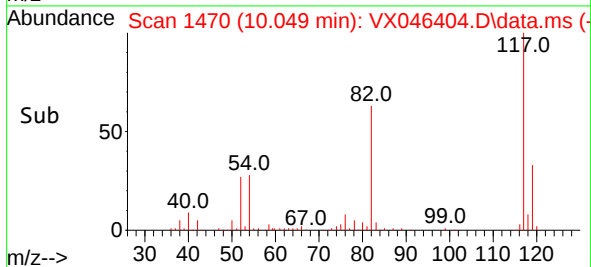
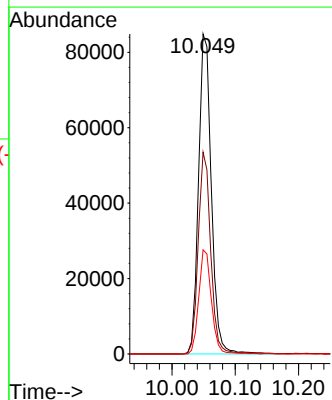
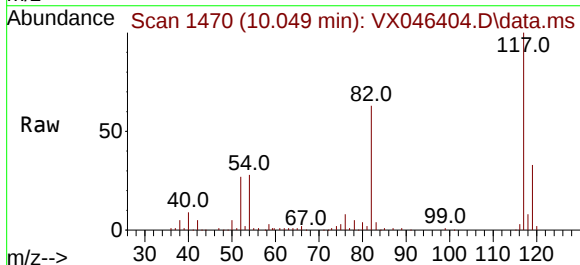
Instrument :  
MSVOA\_X  
ClientSampleId :  
444

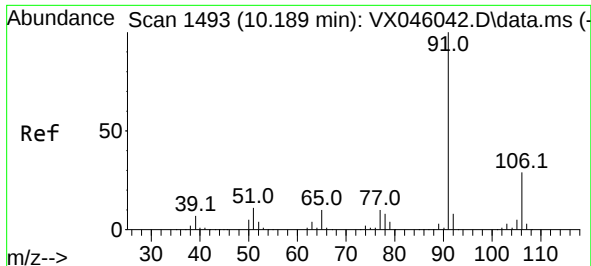
Tgt Ion: 95 Resp: 62048  
Ion Ratio Lower Upper  
95 100  
174 65.5 0.0 135.8  
176 63.9 0.0 131.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

Tgt Ion: 117 Resp: 119851  
Ion Ratio Lower Upper  
117 100  
82 63.0 50.6 76.0  
119 32.6 25.8 38.6





#67

Ethyl Benzene

Concen: 0.005 ug/l

RT: 10.329 min Scan# 1

Delta R.T. 0.140 min

Lab File: VX046404.D

Acq: 29 May 2025 17:07

Instrument :

MSVOA\_X

ClientSampleId :

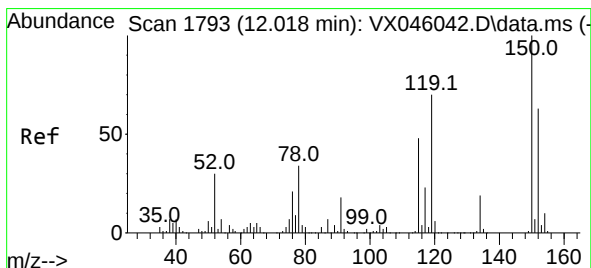
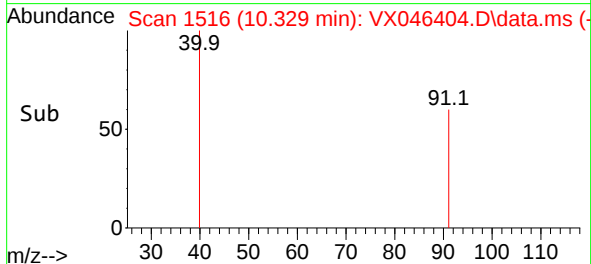
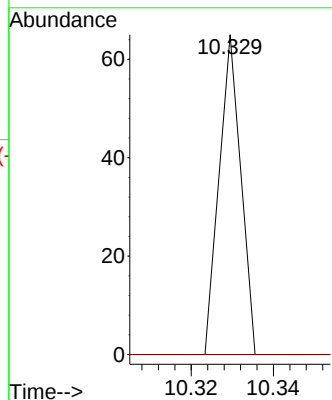
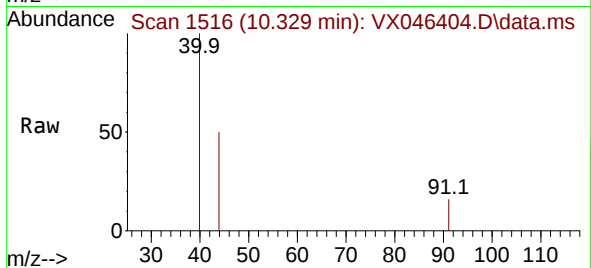
444

Tgt Ion: 91 Resp: 24

Ion Ratio Lower Upper

91 100

106 0.0 23.4 35.2#



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VX046404.D

Acq: 29 May 2025 17:07

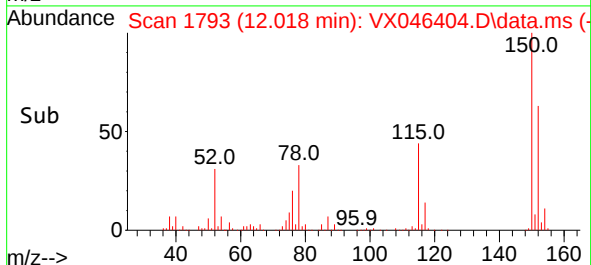
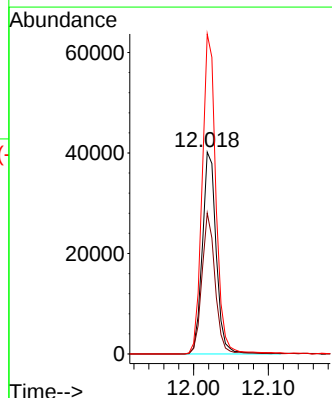
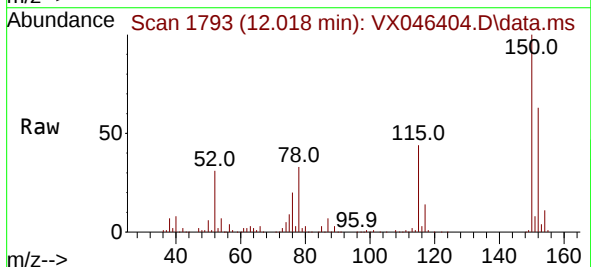
Tgt Ion: 152 Resp: 51885

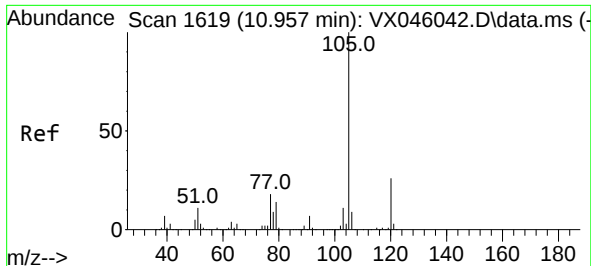
Ion Ratio Lower Upper

152 100

115 66.6 46.9 140.7

150 157.1 0.0 351.0

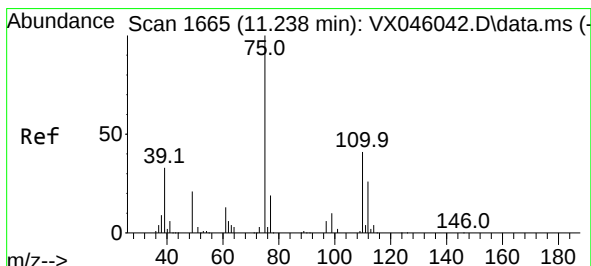
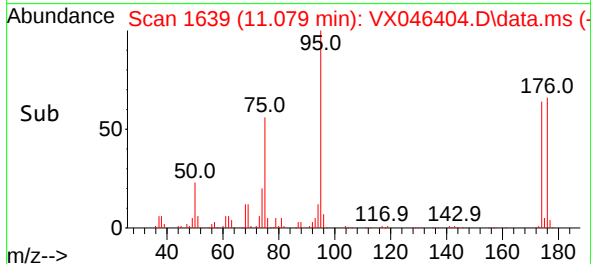
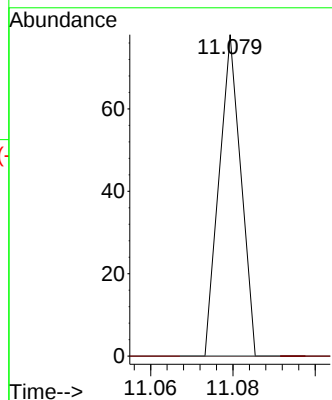
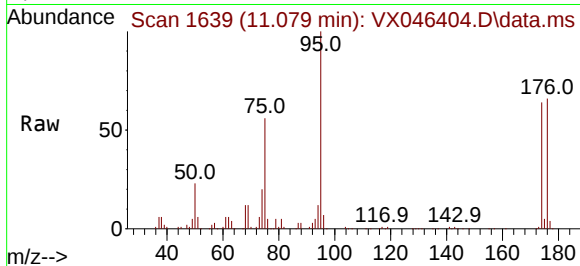




#73  
Isopropylbenzene  
Concen: 0.007 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.122 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

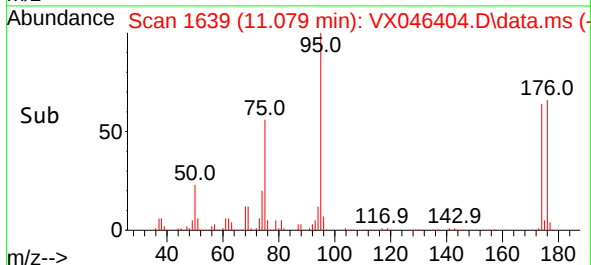
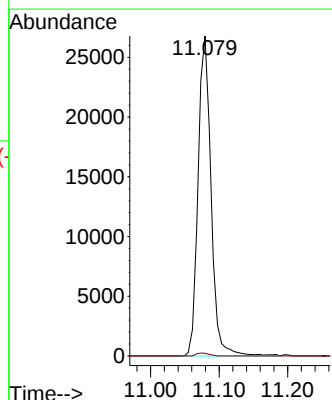
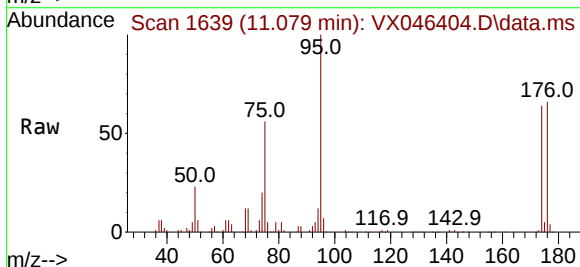
Instrument :  
MSVOA\_X  
ClientSampleId :  
444

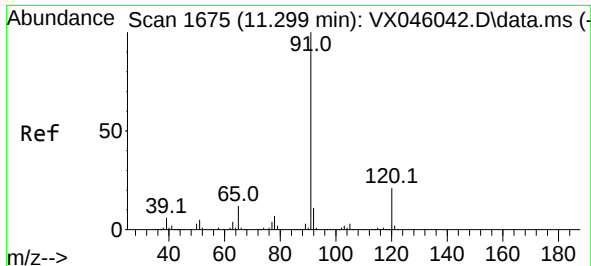
Tgt Ion:105 Resp: 29  
Ion Ratio Lower Upper  
105 100  
120 0.0 12.8 38.4#



#76  
1,2,3-Trichloropropane  
Concen: 28.373 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

Tgt Ion: 75 Resp: 35435  
Ion Ratio Lower Upper  
75 100  
77 0.9 20.5 61.5#

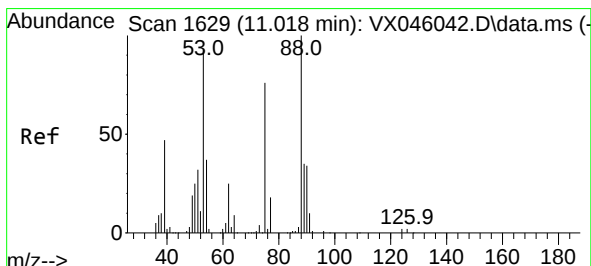
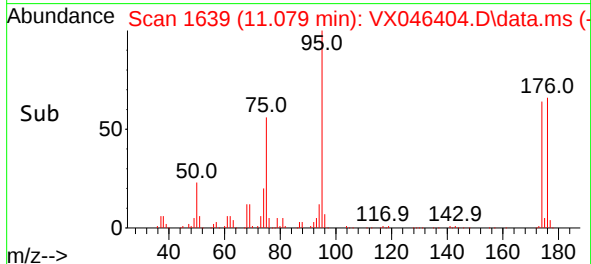
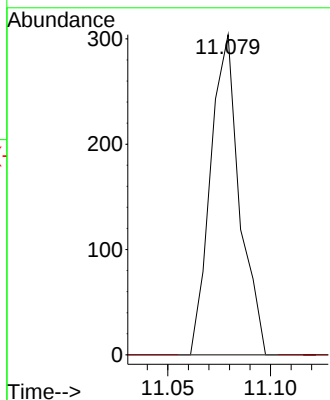
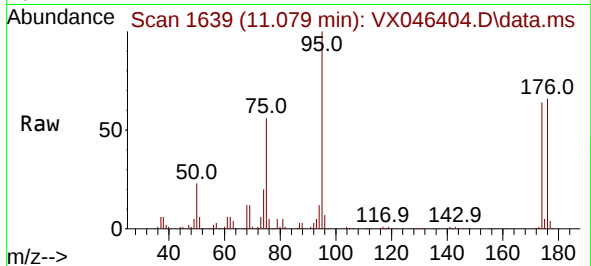




#78  
n-propylbenzene  
Concen: 0.064 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.220 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

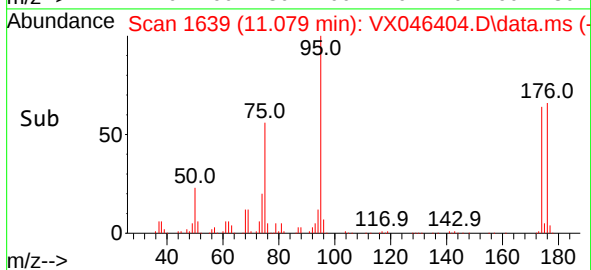
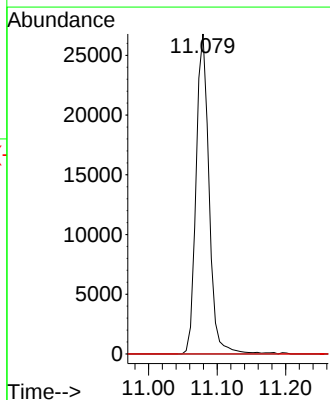
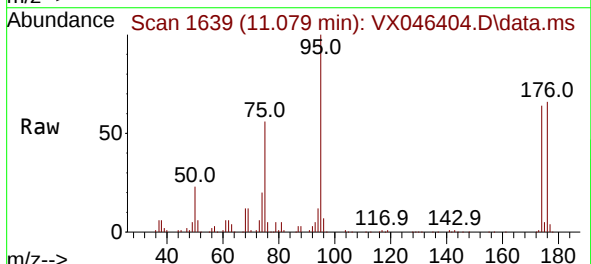
Instrument :  
MSVOA\_X  
ClientSampleId :  
444

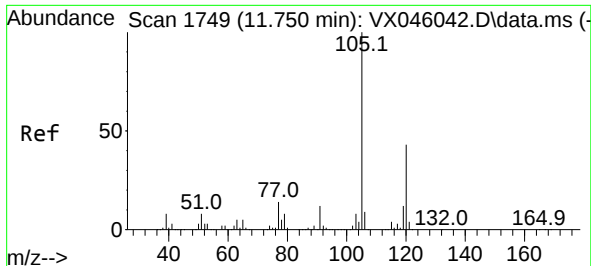
Tgt Ion: 91 Resp: 299  
Ion Ratio Lower Upper  
91 100  
120 0.0 10.8 32.4#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 92.374 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

Tgt Ion: 75 Resp: 35435  
Ion Ratio Lower Upper  
75 100  
53 0.0 100.5 150.7#  
89 0.0 37.0 55.6#

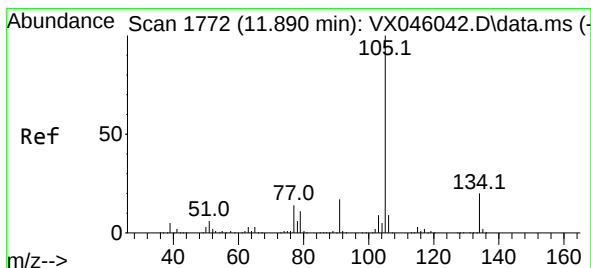
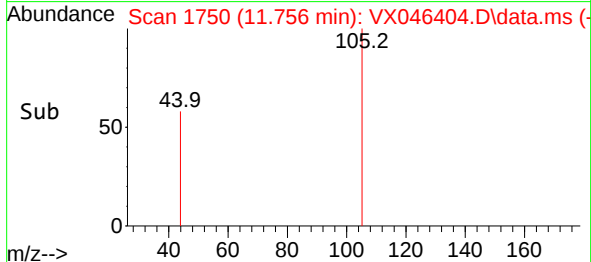
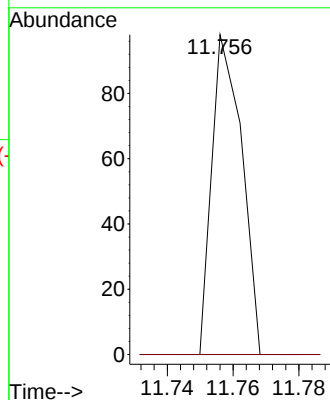
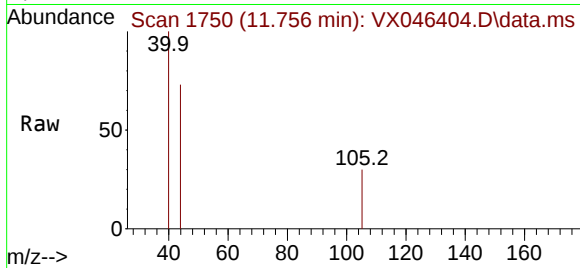




#84  
1,2,4-Trimethylbenzene  
Concen: 0.018 ug/l  
RT: 11.756 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

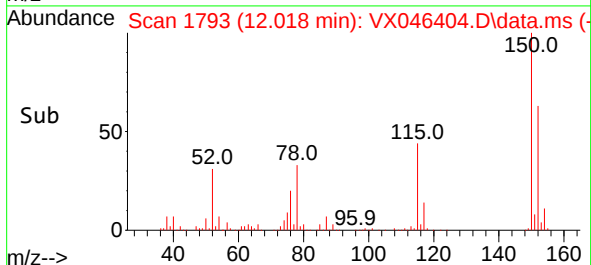
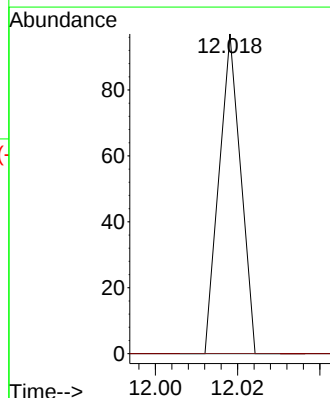
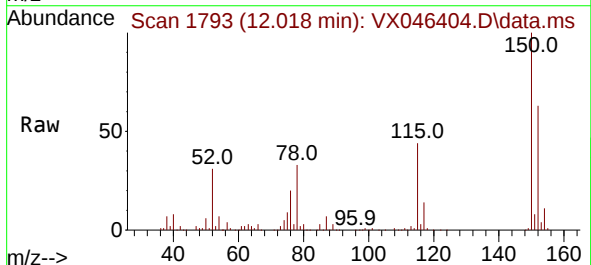
Instrument :  
MSVOA\_X  
ClientSampleId :  
444

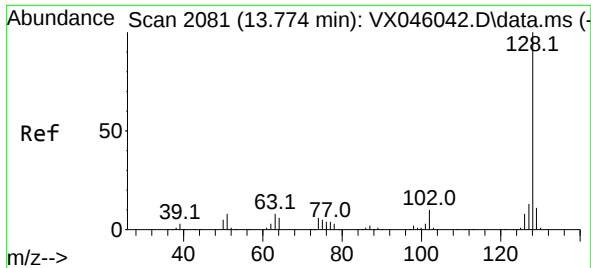
Tgt Ion:105 Resp: 62  
Ion Ratio Lower Upper  
105 100  
120 0.0 21.2 63.6#



#85  
sec-Butylbenzene  
Concen: 0.008 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. 0.128 min  
Lab File: VX046404.D  
Acq: 29 May 2025 17:07

Tgt Ion:105 Resp: 35  
Ion Ratio Lower Upper  
105 100  
134 0.0 9.7 29.1#





#95

Naphthalene

Concen: 0.006 ug/l

RT: 13.798 min Scan# 20

Delta R.T. 0.024 min

Lab File: VX046404.D

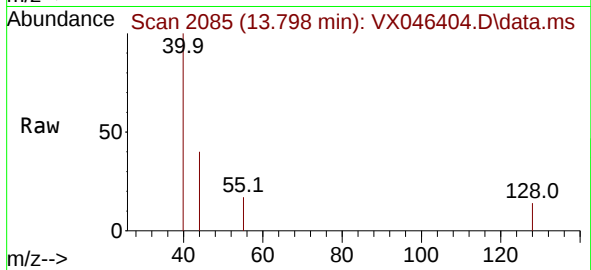
Acq: 29 May 2025 17:07

Instrument :

MSVOA\_X

ClientSampleId :

444



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 20    |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 0.0   | 10.4  | 15.6# |
| 129      | 0.0   | 8.6   | 13.0# |

