

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX082025\  
 Data File : VX047439.D  
 Acq On : 20 Aug 2025 13:59  
 Operator : JC/MD  
 Sample : Q2869-05 100X  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-19B-71.5-081325-FD

Quant Time: Aug 21 01:31:32 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081525W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Aug 18 04:18:28 2025  
 Response via : Initial Calibration

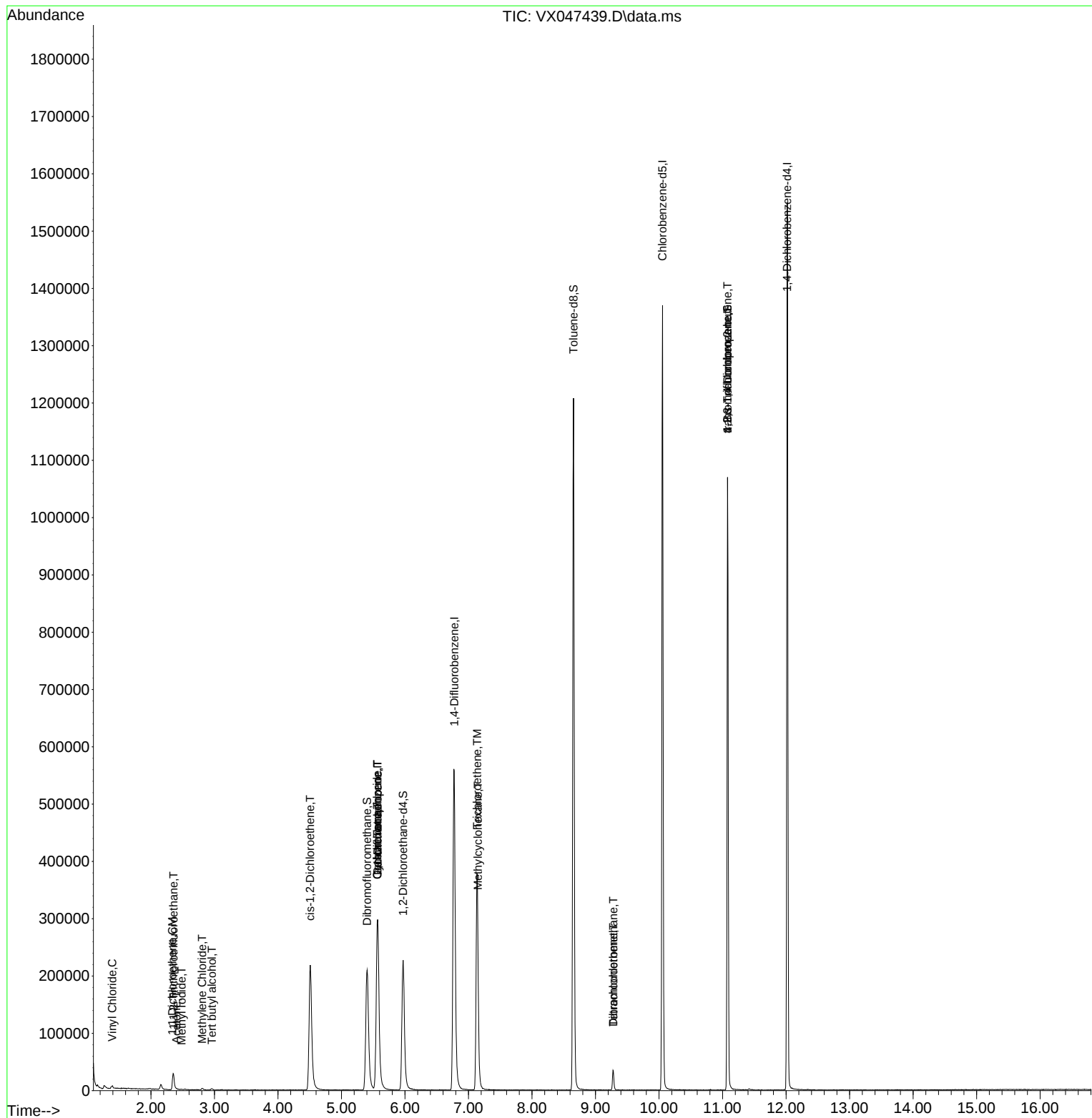
| Compound                      | R.T.   | T.Q   | Ion      | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|---------|----------|----------|
| -----                         |        |       |          |          |         |          |          |
| Internal Standards            |        |       |          |          |         |          |          |
| 1) Pentafluorobenzene         | 5.568  | 168   |          | 303425   | 50.000  | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.775  | 114   |          | 608029   | 50.000  | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   |          | 599147   | 50.000  | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   |          | 301736   | 50.000  | ug/l     | 0.00     |
| System Monitoring Compounds   |        |       |          |          |         |          |          |
| 33) 1,2-Dichloroethane-d4     | 5.970  | 65    |          | 237099   | 55.834  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =       | 111.660% |          |
| 35) Dibromofluoromethane      | 5.403  | 113   |          | 199244   | 50.491  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =       | 100.980% |          |
| 50) Toluene-d8                | 8.653  | 98    |          | 718098   | 50.912  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =       | 101.820% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    |          | 286076   | 54.963  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =       | 109.920% |          |
| Target Compounds              |        |       |          |          |         |          |          |
|                               |        |       |          |          |         |          | Qvalue   |
| 4) Vinyl Chloride             | 1.392  | 62    |          | 1140     | 0.261   | ug/l     | 89       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.355  | 101   |          | 12596    | 3.361   | ug/l     | 99       |
| 10) Methyl Iodide             | 2.483  | 142   |          | 1815     | 0.283   | ug/l #   | 89       |
| 11) Tert butyl alcohol        | 2.959  | 59    |          | 254      | 0.688   | ug/l #   | 72       |
| 12) 1,1-Dichloroethene        | 2.337  | 96    |          | 894      | 0.234   | ug/l #   | 48       |
| 16) Acetone                   | 2.398  | 43    |          | 2355     | 1.475   | ug/l #   | 74       |
| 20) Methylene Chloride        | 2.806  | 84    |          | 1314     | 0.311   | ug/l #   | 86       |
| 27) cis-1,2-Dichloroethene    | 4.507  | 96    |          | 151640   | 32.109  | ug/l     | 91       |
| 31) Cyclohexane               | 5.562  | 56    |          | 6338     | 0.927   | ug/l #   | 1        |
| 36) 1,1-Dichloropropene       | 5.568  | 75    |          | 24341    | 3.907   | ug/l #   | 51       |
| 38) Carbon Tetrachloride      | 5.562  | 117   |          | 32759    | 4.812   | ug/l #   | 13       |
| 39) Methylcyclohexane         | 7.147  | 83    |          | 2158     | 0.278   | ug/l #   | 1        |
| 44) Trichloroethene           | 7.135  | 130   |          | 158224   | 33.141  | ug/l     | 96       |
| 60) Dibromochloromethane      | 9.281  | 129   |          | 6821     | 1.312   | ug/l #   | 11       |
| 64) Tetrachloroethene         | 9.281  | 164   |          | 6917     | 1.596   | ug/l     | 95       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    |          | 149258   | 26.970  | ug/l #   | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    |          | 149258   | 106.659 | ug/l #   | 7        |
| -----                         |        |       |          |          |         |          |          |

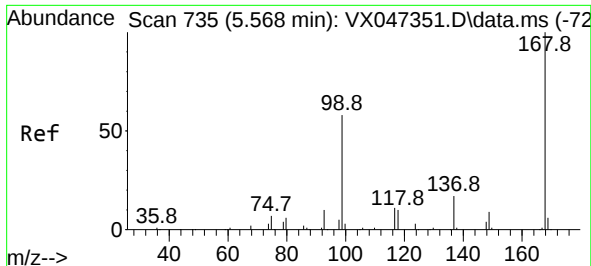
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Aug 18 04:18:28 2025  
Response via : Initial Calibration





#1  
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.568 min Scan# 71

Delta R.T. 0.000 min

Lab File: VX047439.D

Acq: 20 Aug 2025 13:59

Instrument :

MSVOA\_X

ClientSampleId :

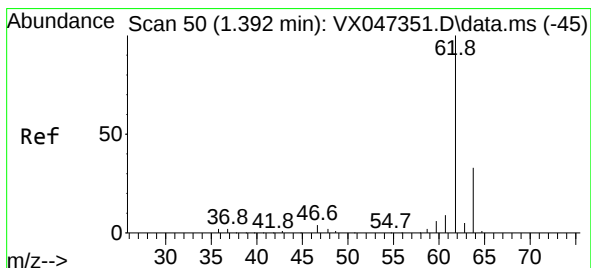
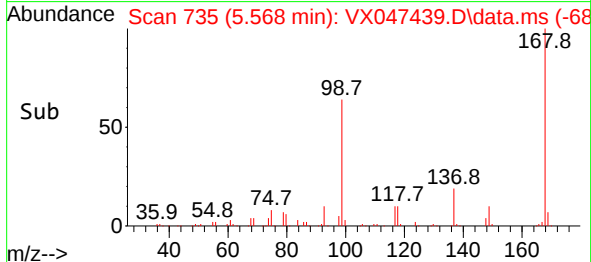
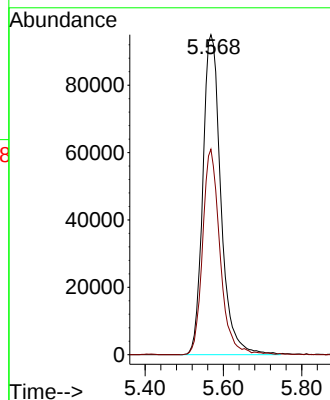
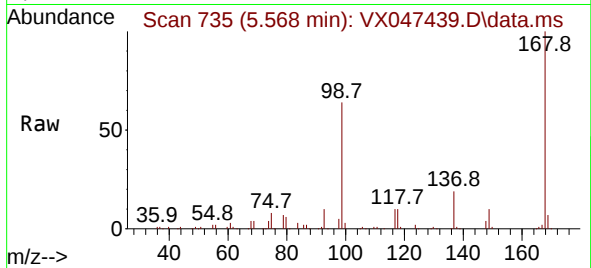
MW-19B-71.5-081325-FD

Tgt Ion:168 Resp: 303425

Ion Ratio Lower Upper

168 100

99 64.2 47.9 71.9



#4

Vinyl Chloride

Concen: 0.261 ug/l

RT: 1.392 min Scan# 50

Delta R.T. 0.000 min

Lab File: VX047439.D

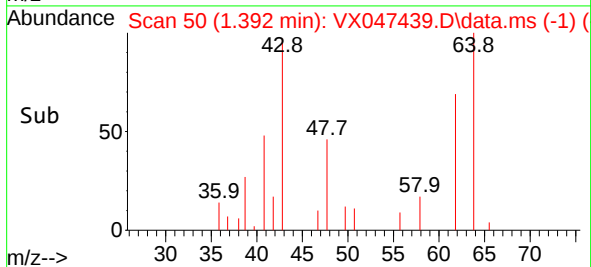
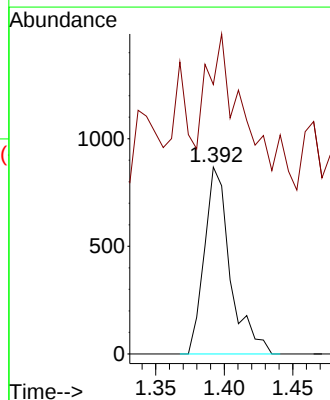
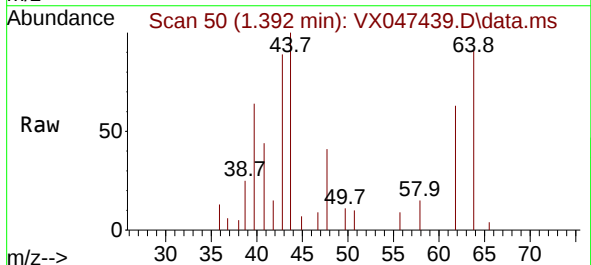
Acq: 20 Aug 2025 13:59

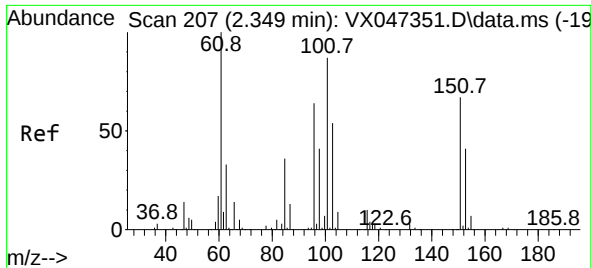
Tgt Ion: 62 Resp: 1140

Ion Ratio Lower Upper

62 100

64 27.0 26.5 39.7

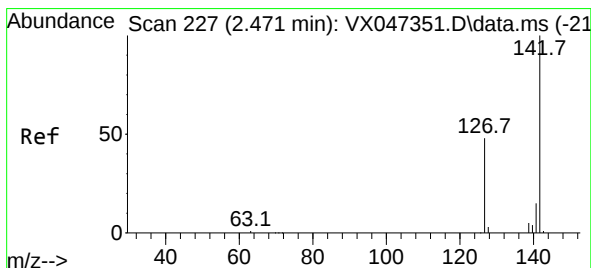
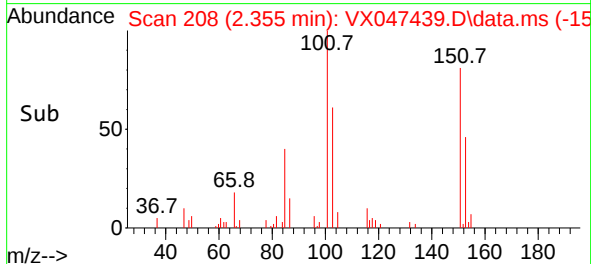
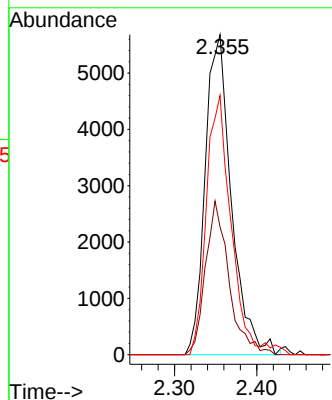
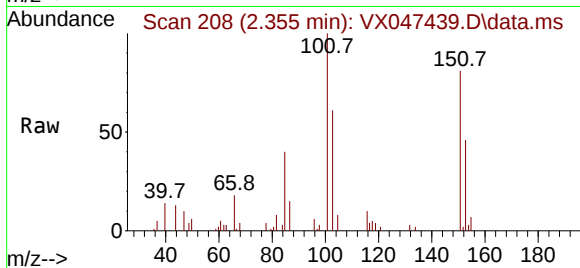




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 3.361 ug/l  
RT: 2.355 min Scan# 207  
Delta R.T. 0.006 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

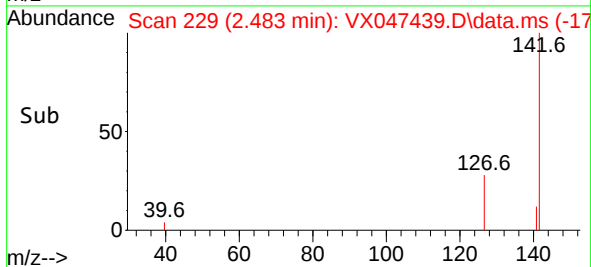
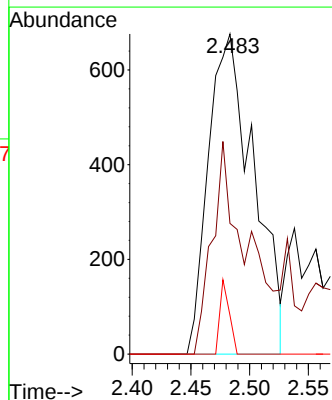
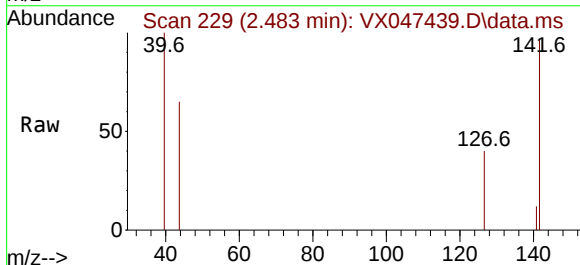
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-19B-71.5-081325-FD

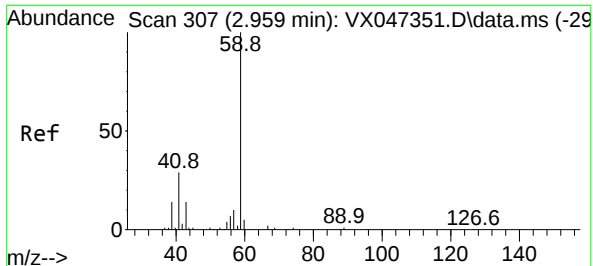
Tgt Ion:101 Resp: 12596  
Ion Ratio Lower Upper  
101 100  
85 43.2 34.3 51.5  
151 75.0 59.2 88.8



#10  
Methyl Iodide  
Concen: 0.283 ug/l  
RT: 2.483 min Scan# 229  
Delta R.T. 0.012 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

Tgt Ion:142 Resp: 1815  
Ion Ratio Lower Upper  
142 100  
127 50.4 36.1 54.1  
141 4.8 11.1 16.7#

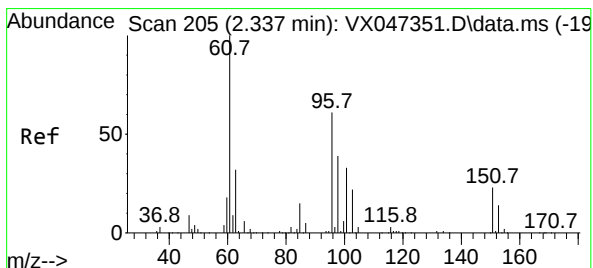
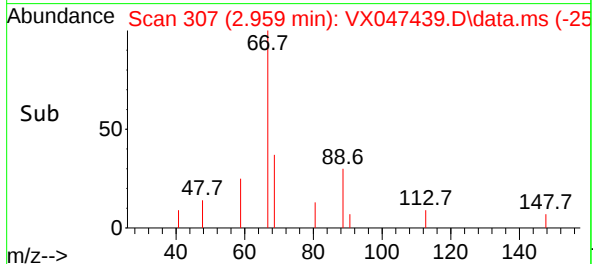
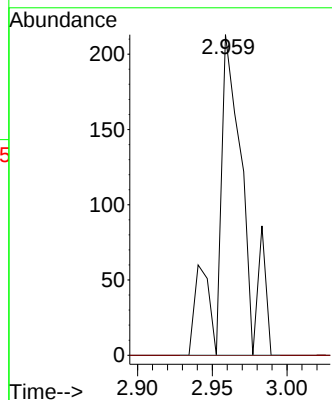
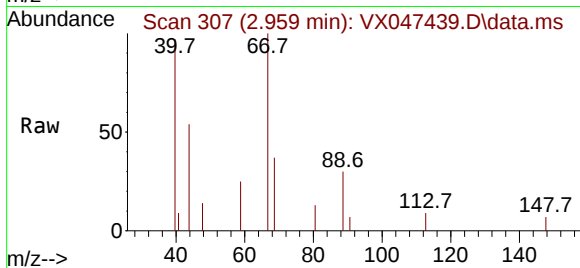




#11  
Tert butyl alcohol  
Concen: 0.688 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. 0.000 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

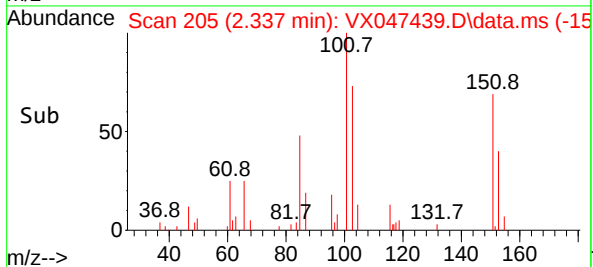
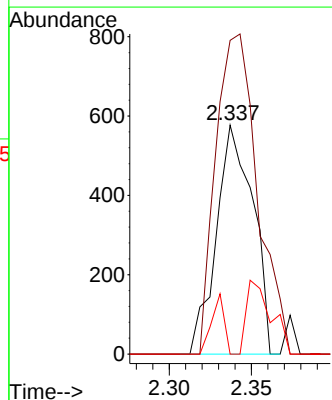
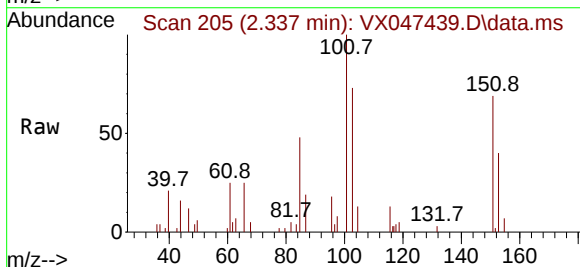
Instrument :  
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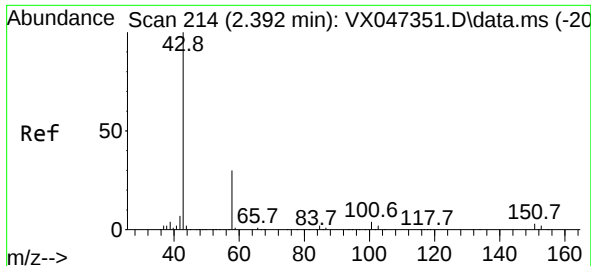
Tgt Ion: 59 Resp: 254  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



#12  
1,1-Dichloroethene  
Concen: 0.234 ug/l  
RT: 2.337 min Scan# 205  
Delta R.T. 0.000 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

Tgt Ion: 96 Resp: 894  
Ion Ratio Lower Upper  
96 100  
61 111.1 132.2 198.2#  
98 0.0 51.2 76.8#

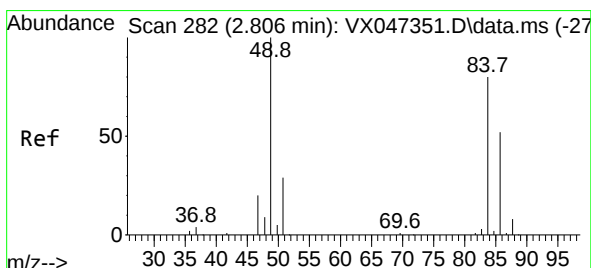
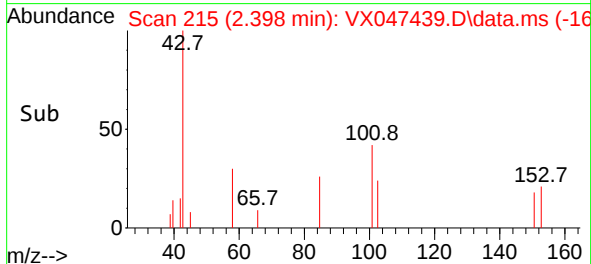
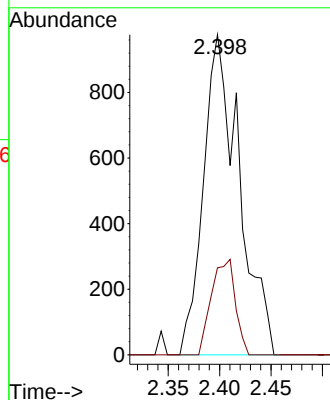
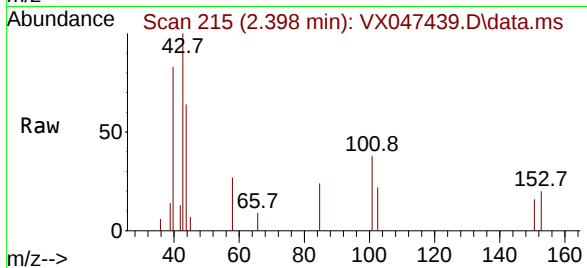




#16  
Acetone  
Concen: 1.475 ug/l  
RT: 2.398 min Scan# 214  
Delta R.T. 0.006 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

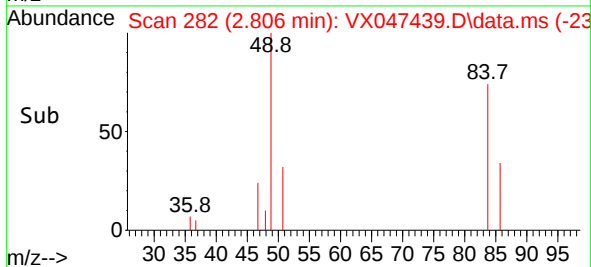
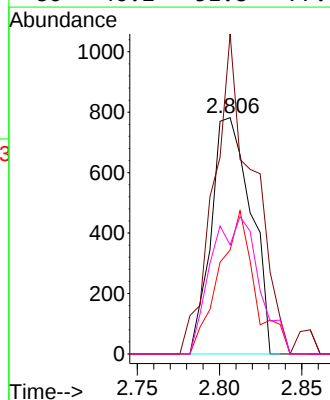
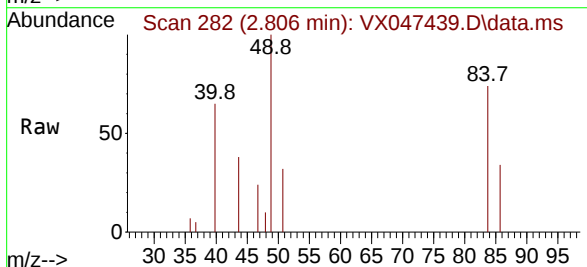
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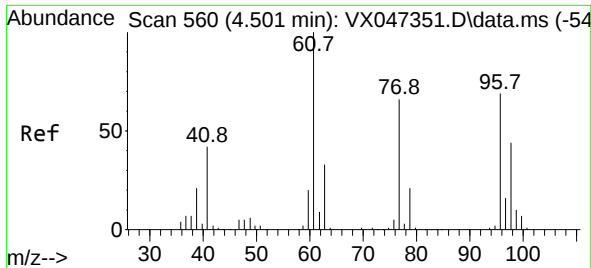
Tgt Ion: 43 Resp: 2355  
Ion Ratio Lower Upper  
43 100  
58 16.6 24.8 37.2#



#20  
Methylene Chloride  
Concen: 0.311 ug/l  
RT: 2.806 min Scan# 282  
Delta R.T. 0.000 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

Tgt Ion: 84 Resp: 1314  
Ion Ratio Lower Upper  
84 100  
49 135.4 100.1 150.1  
51 44.0 29.5 44.3  
86 46.2 51.8 77.8#





#27

cis-1,2-Dichloroethene

Concen: 32.109 ug/l

RT: 4.507 min Scan# 5

Delta R.T. 0.006 min

Lab File: VX047439.D

Acq: 20 Aug 2025 13:59

Instrument :

MSVOA\_X

ClientSampleId :

MW-19B-71.5-081325-FD

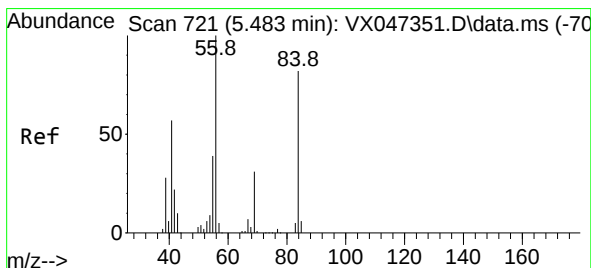
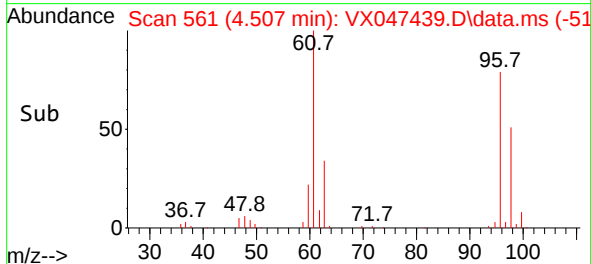
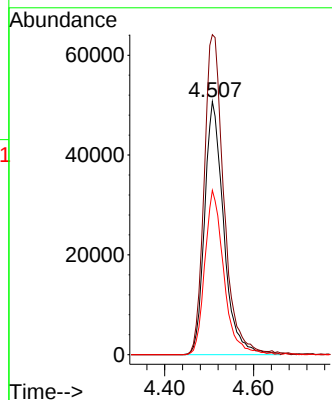
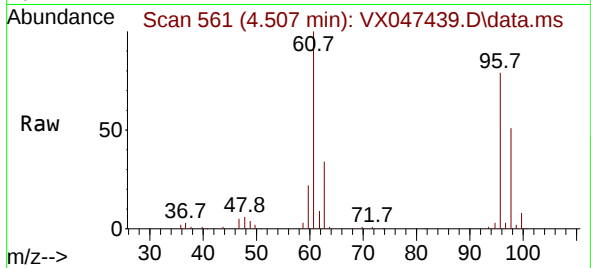
Tgt Ion: 96 Resp: 151640

Ion Ratio Lower Upper

96 100

61 131.3 0.0 296.6

98 64.8 0.0 130.4



#31

Cyclohexane

Concen: 0.927 ug/l

RT: 5.562 min Scan# 734

Delta R.T. 0.079 min

Lab File: VX047439.D

Acq: 20 Aug 2025 13:59

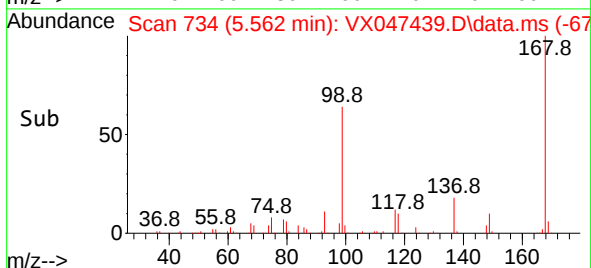
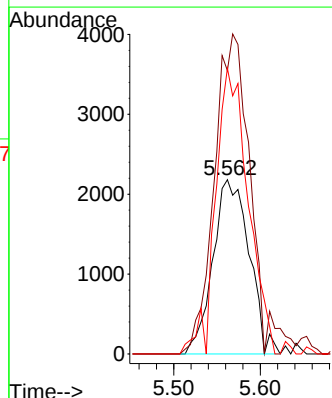
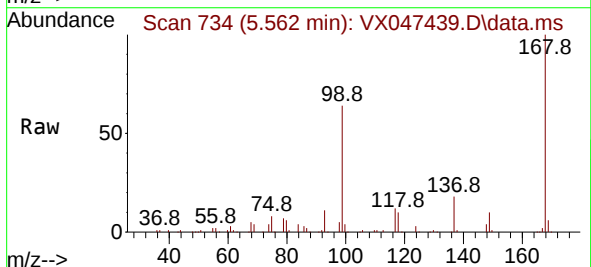
Tgt Ion: 56 Resp: 6338

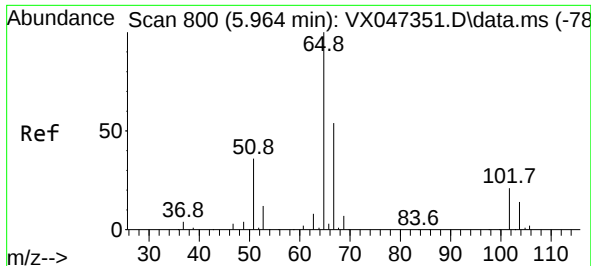
Ion Ratio Lower Upper

56 100

69 162.7 24.3 36.5#

84 164.0 65.3 97.9#





#33

1,2-Dichloroethane-d4

Concen: 55.834 ug/l

RT: 5.970 min Scan# 800

Delta R.T. 0.006 min

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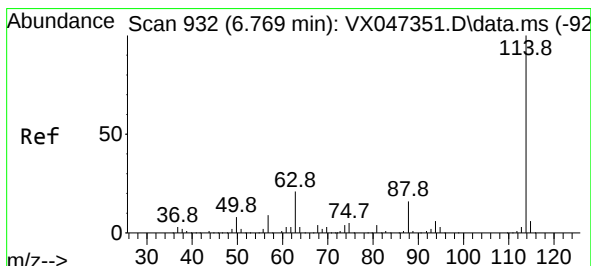
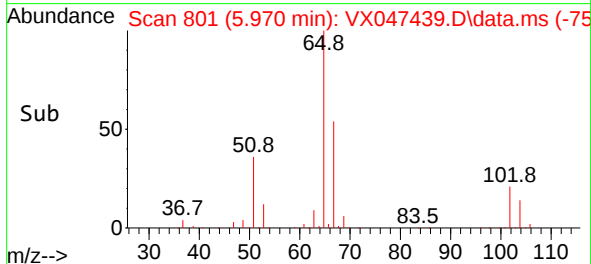
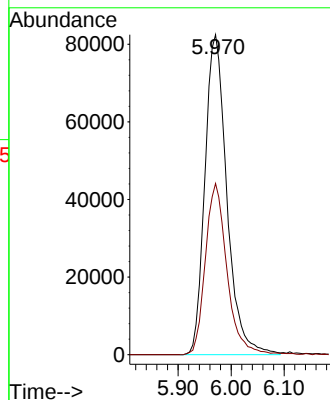
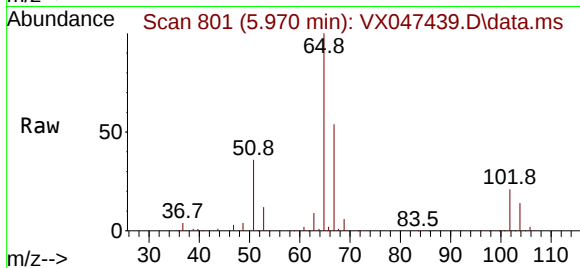
MW-19B-71.5-081325-FD

Tgt Ion: 65 Resp: 237099

Ion Ratio Lower Upper

65 100

67 52.9 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.775 min Scan# 933

Delta R.T. 0.006 min

Lab File: VX047439.D

Acq: 20 Aug 2025 13:59

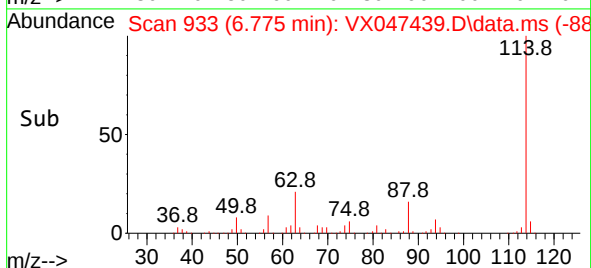
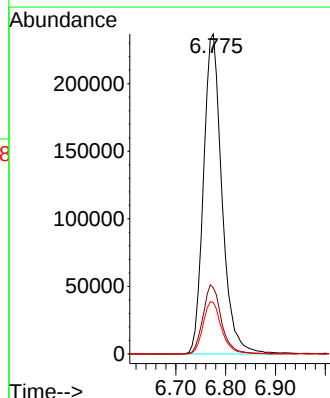
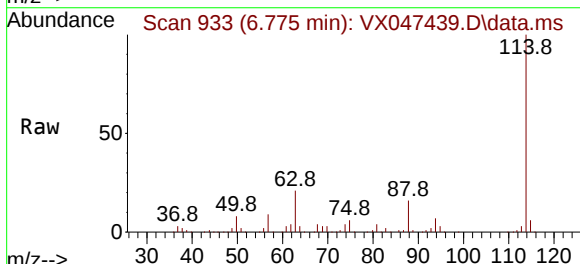
Tgt Ion: 114 Resp: 608029

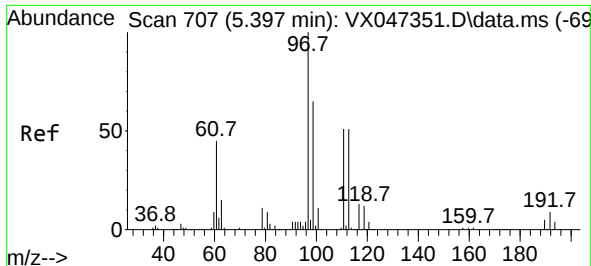
Ion Ratio Lower Upper

114 100

63 20.7 0.0 42.4

88 16.1 0.0 33.0

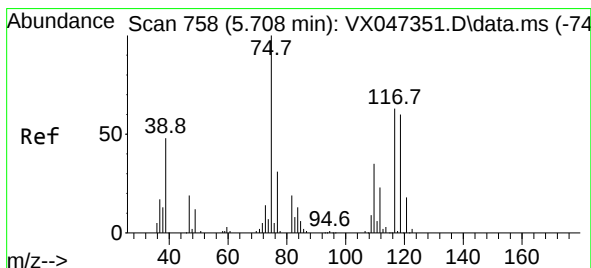
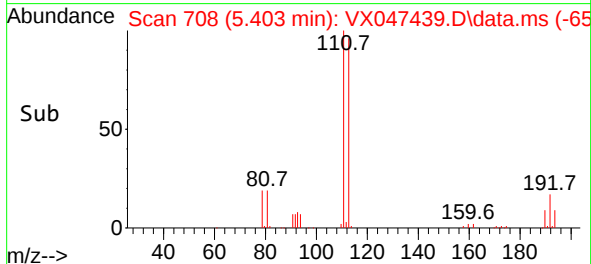
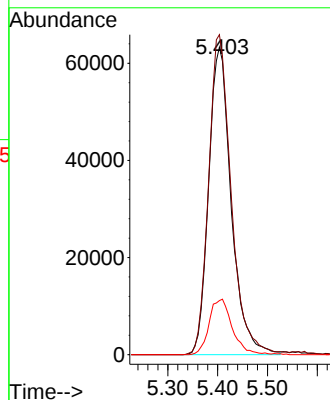
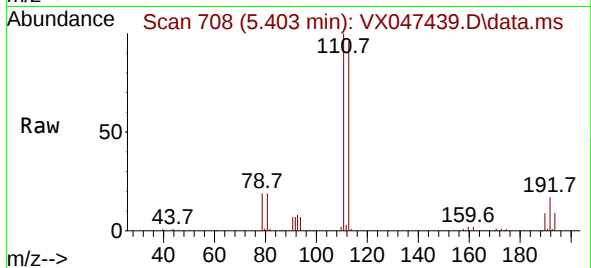




#35  
Dibromofluoromethane  
Concen: 50.491 ug/l  
RT: 5.403 min Scan# 708  
Delta R.T. 0.006 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

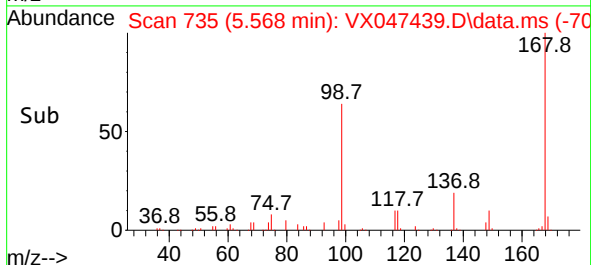
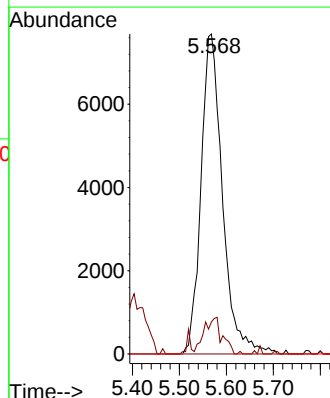
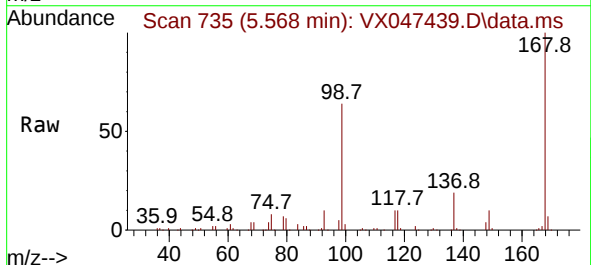
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-19B-71.5-081325-FD

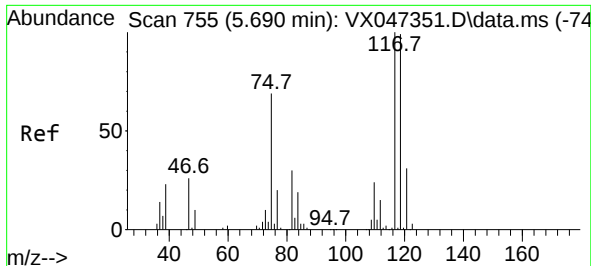
Tgt Ion:113 Resp: 199244  
Ion Ratio Lower Upper  
113 100  
111 104.2 81.4 122.2  
192 18.5 14.1 21.1



#36  
1,1-Dichloropropene  
Concen: 3.907 ug/l  
RT: 5.568 min Scan# 735  
Delta R.T. -0.140 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

Tgt Ion: 75 Resp: 24341  
Ion Ratio Lower Upper  
75 100  
110 9.6 17.4 52.2#  
77 0.0 24.4 36.6#

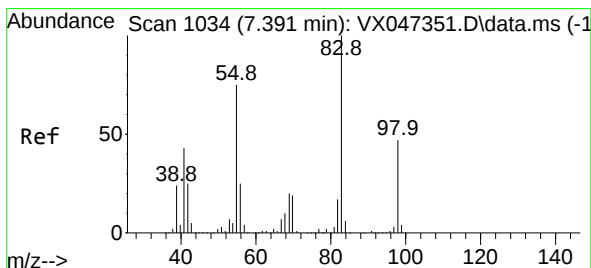
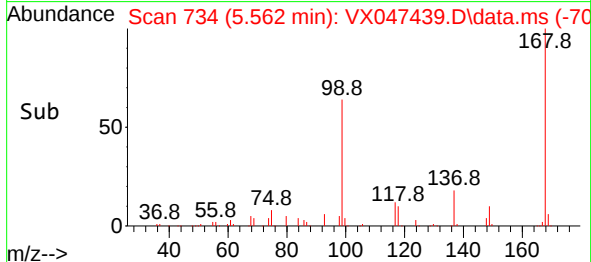
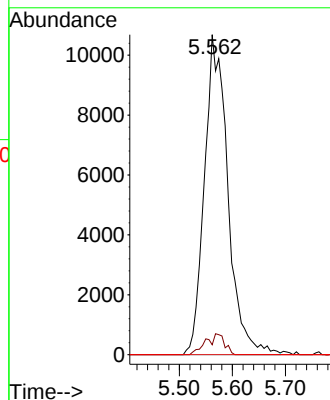
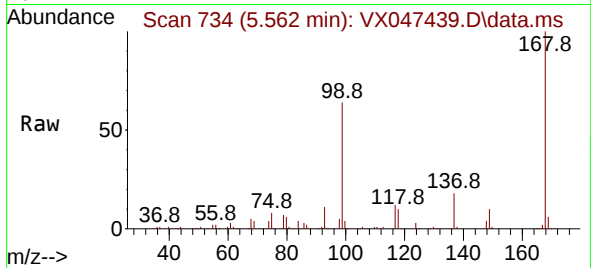




#38  
Carbon Tetrachloride  
Concen: 4.812 ug/l  
RT: 5.562 min Scan# 711  
Delta R.T. -0.128 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

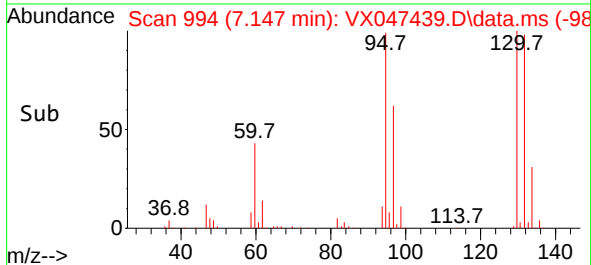
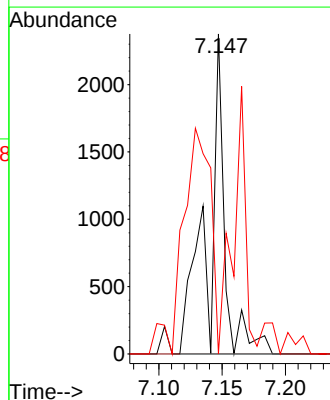
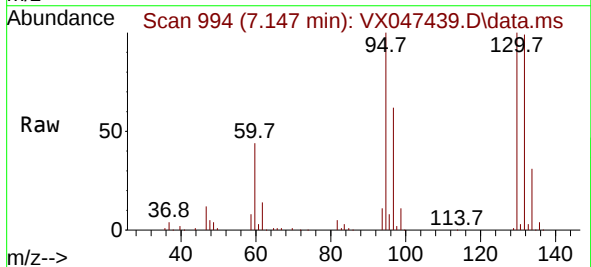
Instrument : MSVOA\_X  
ClientSampleId : MW-19B-71.5-081325-FD

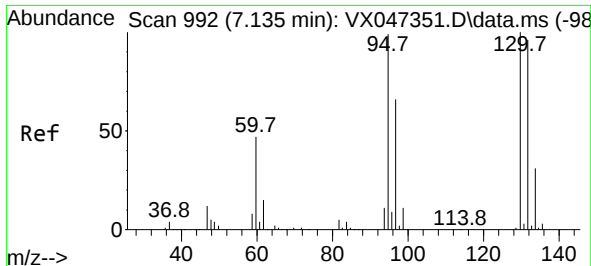
Tgt Ion:117 Resp: 32759  
Ion Ratio Lower Upper  
117 100  
119 3.1 78.5 117.7#  
121 0.0 24.7 37.1#



#39  
Methylcyclohexane  
Concen: 0.278 ug/l  
RT: 7.147 min Scan# 994  
Delta R.T. -0.244 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

Tgt Ion: 83 Resp: 2158  
Ion Ratio Lower Upper  
83 100  
55 0.0 60.0 90.0#  
98 232.3 37.2 55.8#

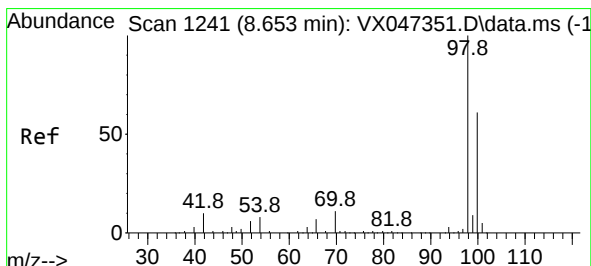
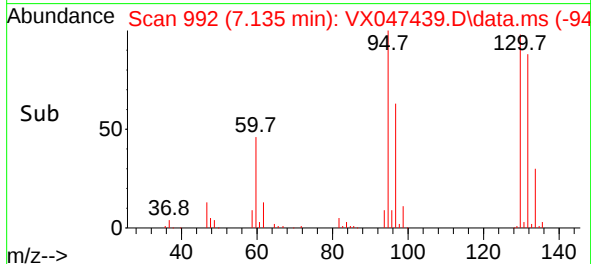
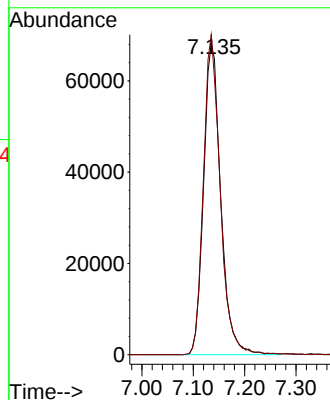
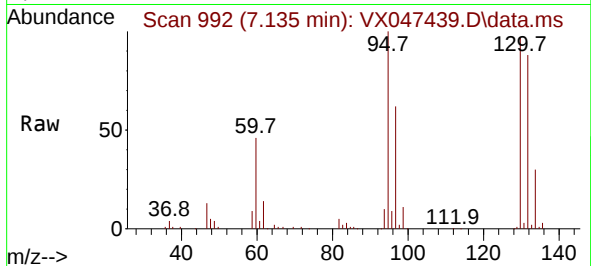




#44  
Trichloroethene  
Concen: 33.141 ug/l  
RT: 7.135 min Scan# 992  
Delta R.T. 0.000 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

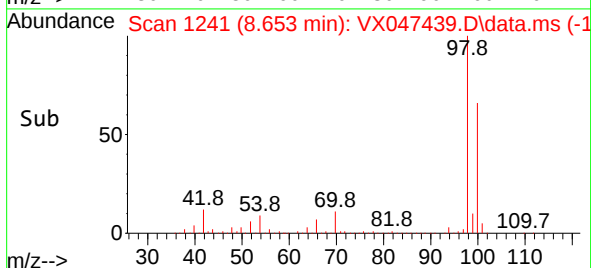
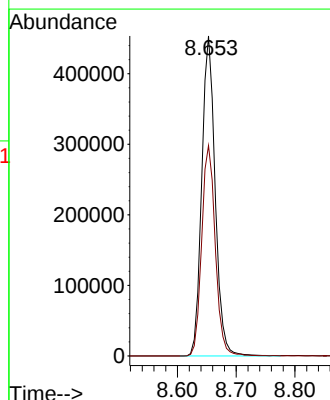
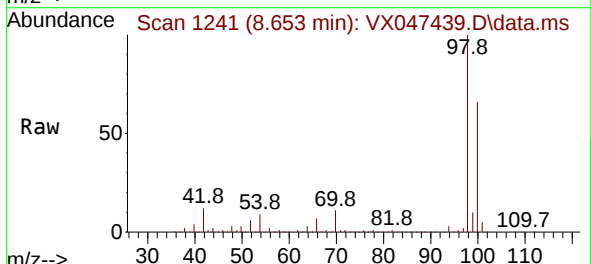
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-19B-71.5-081325-FD

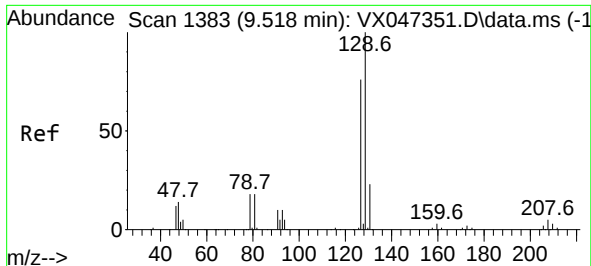
Tgt Ion:130 Resp: 158224  
Ion Ratio Lower Upper  
130 100  
95 102.8 0.0 198.6



#50  
Toluene-d8  
Concen: 50.912 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.000 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

Tgt Ion: 98 Resp: 718098  
Ion Ratio Lower Upper  
98 100  
100 66.6 53.9 80.9

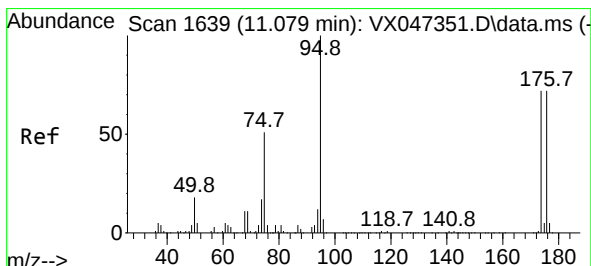
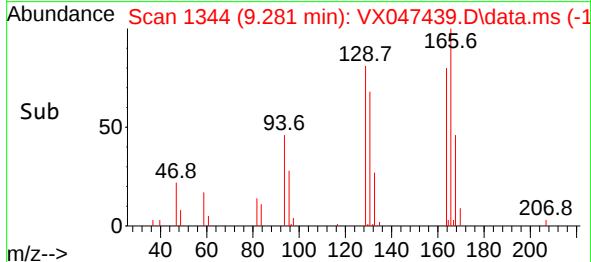
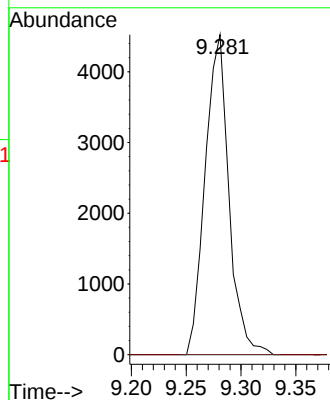
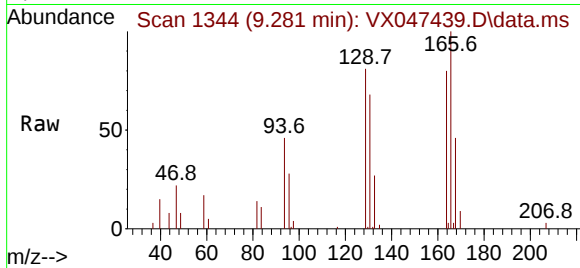




#60  
Dibromochloromethane  
Concen: 1.312 ug/l  
RT: 9.281 min Scan# 11  
Delta R.T. -0.238 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

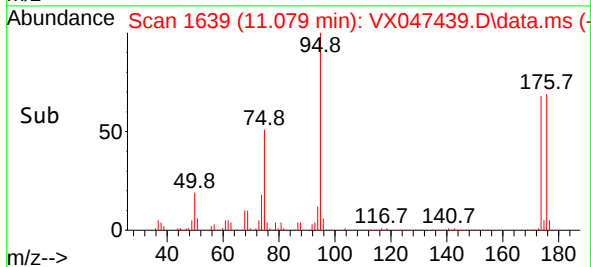
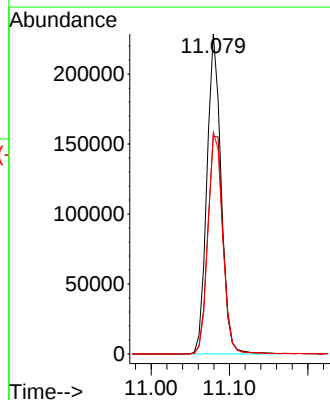
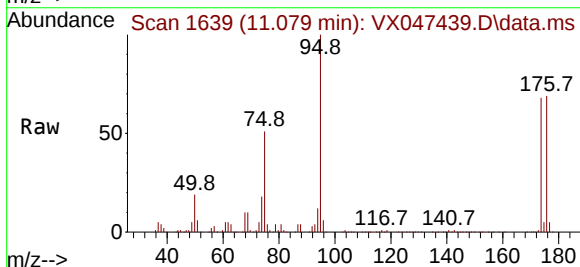
Instrument :  
MSVOA\_X  
ClientSampleId :  
MW-19B-71.5-081325-FD

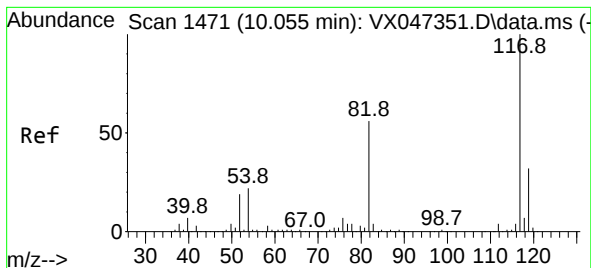
Tgt Ion:129 Resp: 6821  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.9 116.6#



#62  
4-Bromofluorobenzene  
Concen: 54.963 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX047439.D  
Acq: 20 Aug 2025 13:59

Tgt Ion: 95 Resp: 286076  
Ion Ratio Lower Upper  
95 100  
174 74.7 0.0 148.0  
176 72.0 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX047439.D

Acq: 20 Aug 2025 13:59

Instrument :

MSVOA\_X

ClientSampleId :

MW-19B-71.5-081325-FD

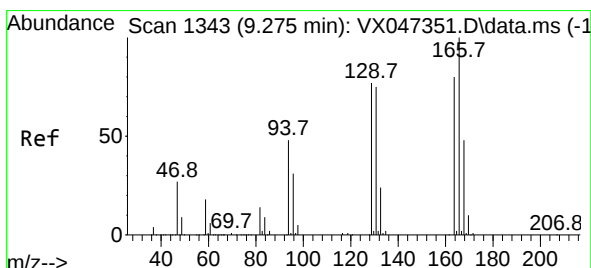
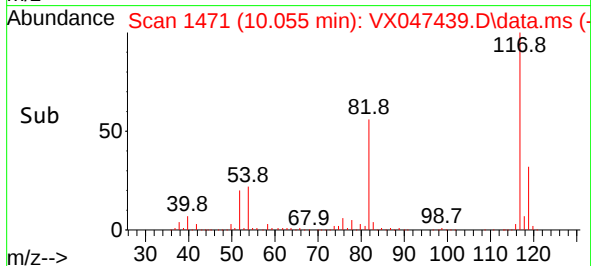
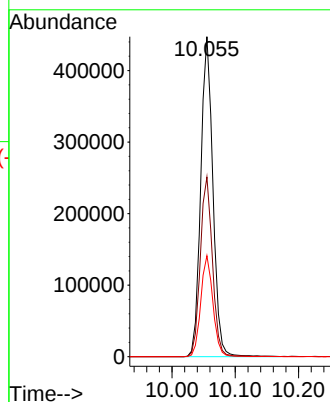
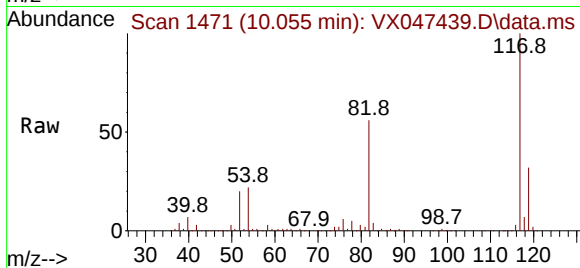
Tgt Ion:117 Resp: 599147

Ion Ratio Lower Upper

117 100

82 56.2 45.0 67.4

119 31.6 25.8 38.8



#64

Tetrachloroethene

Concen: 1.596 ug/l

RT: 9.281 min Scan# 1344

Delta R.T. 0.006 min

Lab File: VX047439.D

Acq: 20 Aug 2025 13:59

Tgt Ion:164 Resp: 6917

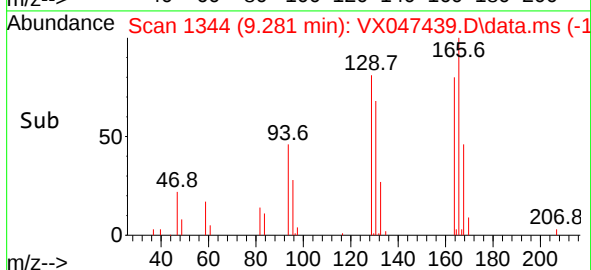
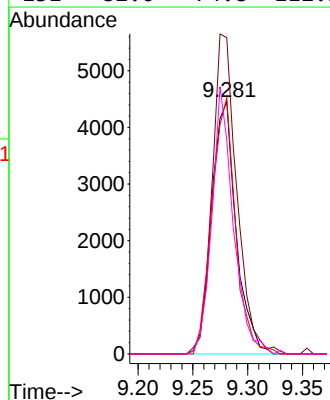
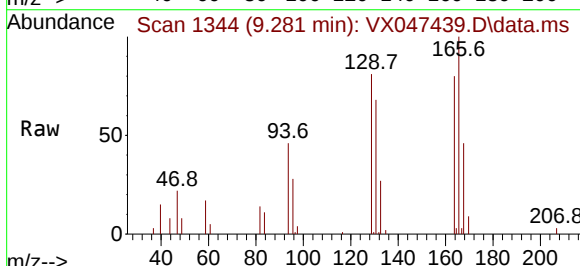
Ion Ratio Lower Upper

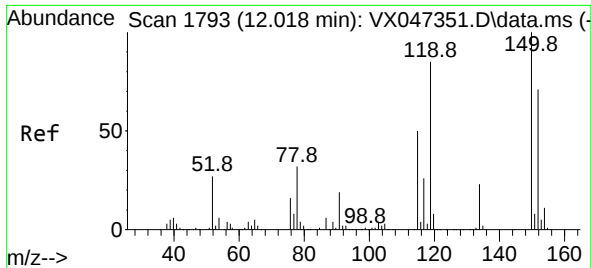
164 100

166 121.3 100.3 150.5

129 98.2 77.7 116.5

131 82.0 74.8 112.2

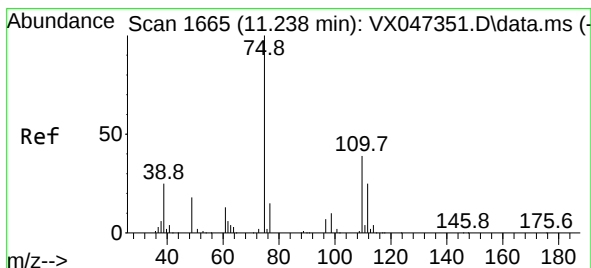
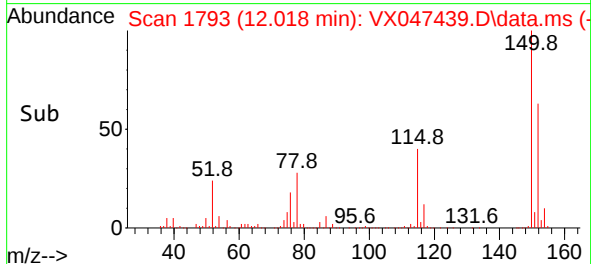
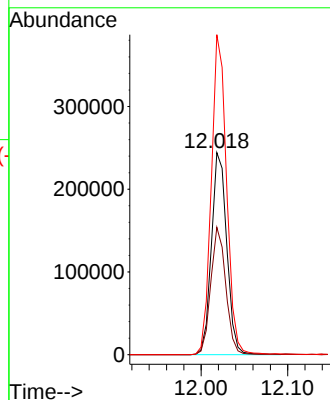
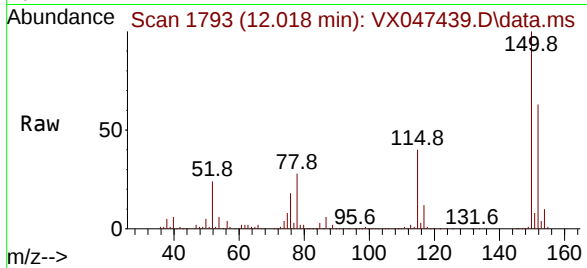




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.018 min Scan# 1  
 Delta R.T. 0.000 min  
 Lab File: VX047439.D  
 Acq: 20 Aug 2025 13:59

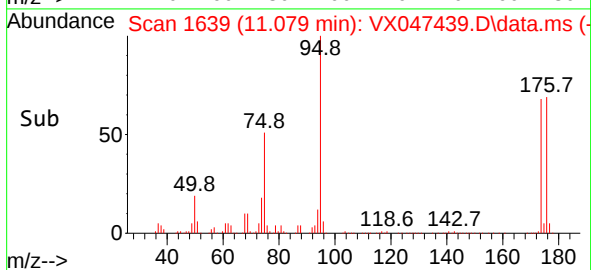
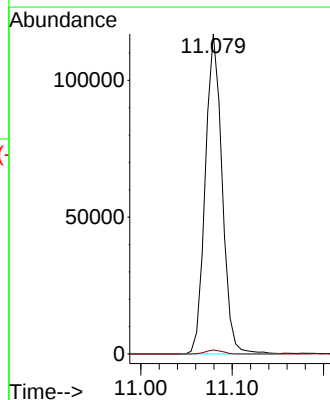
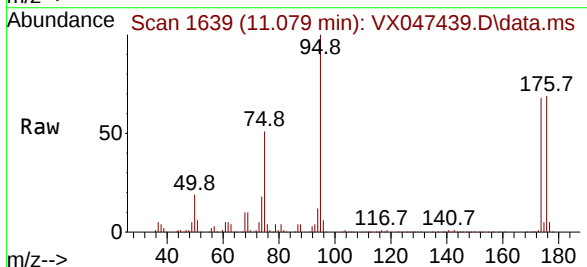
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 MW-19B-71.5-081325-FD

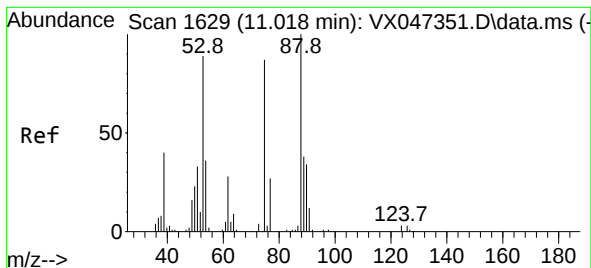
Tgt Ion:152 Resp: 301736  
 Ion Ratio Lower Upper  
 152 100  
 115 61.7 44.6 133.8  
 150 156.8 0.0 349.8



#76  
 1,2,3-Trichloropropane  
 Concen: 26.970 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.158 min  
 Lab File: VX047439.D  
 Acq: 20 Aug 2025 13:59

Tgt Ion: 75 Resp: 149258  
 Ion Ratio Lower Upper  
 75 100  
 77 1.2 19.4 58.2#





#81

trans-1,4-Dichloro-2-butene

Concen: 106.659 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.061 min

Lab File: VX047439.D

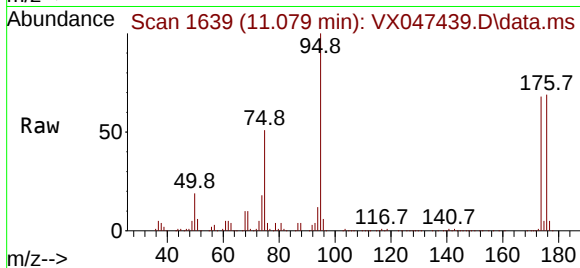
Acq: 20 Aug 2025 13:59

Instrument :

MSVOA\_X

ClientSampleId :

MW-19B-71.5-081325-FD



Tgt Ion: 75 Resp: 149258

Ion Ratio Lower Upper

75 100

53 0.0 85.2 127.8#

89 0.0 36.7 55.1#

