

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX081225\  
 Data File : VX047293.D  
 Acq On : 12 Aug 2025 13:51  
 Operator : JC/MD  
 Sample : Q2814-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TW-17M-W

Quant Time: Aug 13 01:20:48 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072125W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jul 22 03:59:51 2025  
 Response via : Initial Calibration

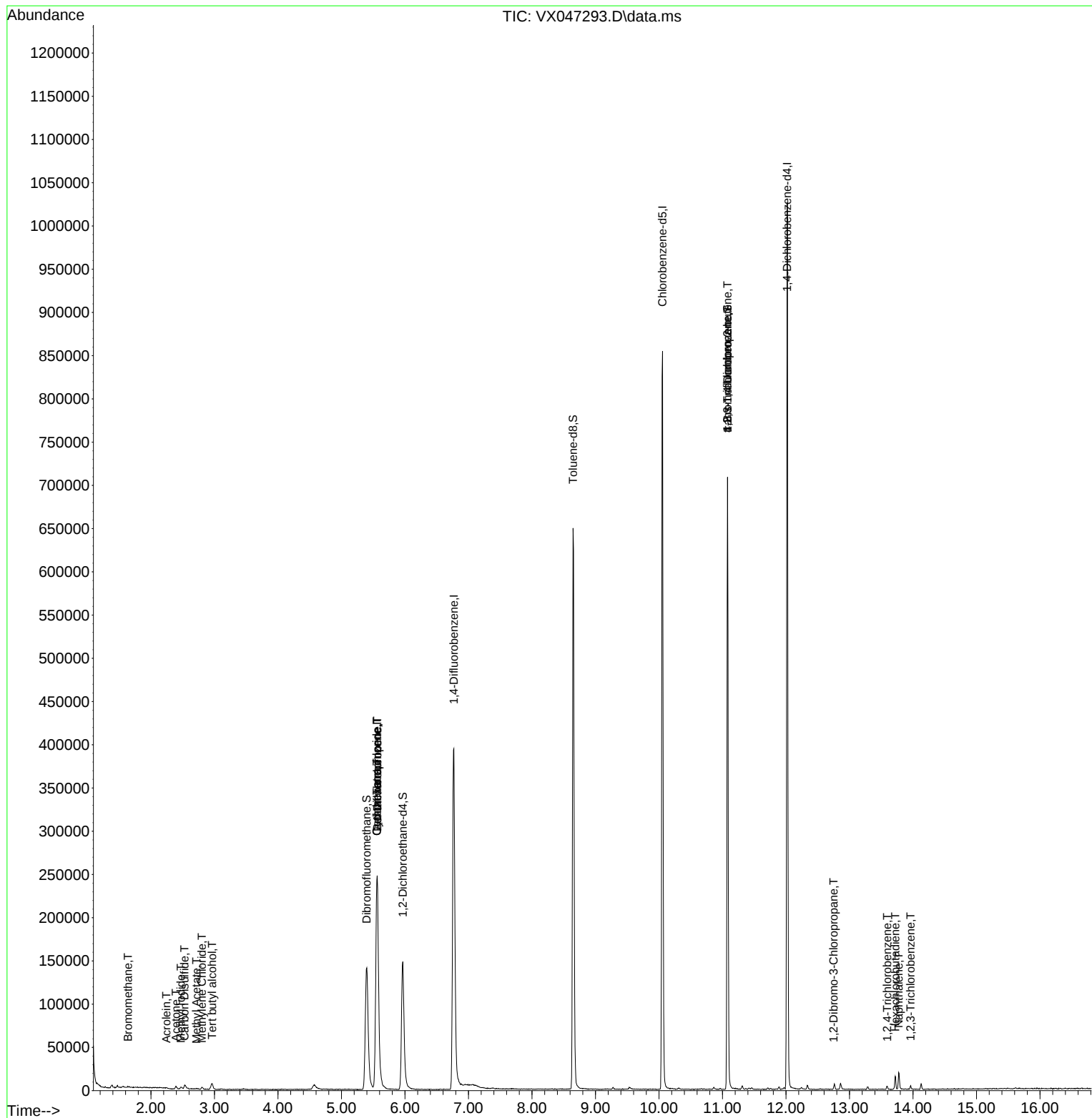
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.562  | 168   | 250644   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 435165   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 391228   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 200683   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 155908   | 49.935   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 99.860%  |
| 35) Dibromofluoromethane      | 5.398  | 113   | 140298   | 52.217   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 104.440% |
| 50) Toluene-d8                | 8.647  | 98    | 396744   | 45.596   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 91.200%# |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 192896   | 51.442   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 102.880% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 5) Bromomethane               | 1.636  | 94    | 576      | 0.300    | ug/l   | 85       |
| 10) Methyl Iodide             | 2.471  | 142   | 3479     | 1.073    | ug/l # | 87       |
| 11) Tert butyl alcohol        | 2.965  | 59    | 4074     | 0.913    | ug/l # | 75       |
| 13) Acrolein                  | 2.240  | 56    | 268      | 0.399    | ug/l # | 72       |
| 16) Acetone                   | 2.392  | 43    | 5610     | 4.485    | ug/l   | 90       |
| 17) Carbon Disulfide          | 2.526  | 76    | 3443     | 0.378    | ug/l # | 76       |
| 18) Methyl Acetate            | 2.715  | 43    | 1108     | 0.333    | ug/l # | 75       |
| 20) Methylene Chloride        | 2.800  | 84    | 1151     | 0.334    | ug/l # | 73       |
| 31) Cyclohexane               | 5.556  | 56    | 5648     | 0.968    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.562  | 75    | 21195    | 4.628    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 26914    | 5.506    | ug/l # | 16       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 99785    | 26.863   | ug/l # | 34       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 99785    | 69.211   | ug/l # | 8        |
| 92) 1,2-Dibromo-3-Chloropr... | 12.750 | 75    | 251      | 0.289    | ug/l # | 2        |
| 93) 1,2,4-Trichlorobenzene    | 13.591 | 180   | 1348     | 0.296    | ug/l   | 88       |
| 94) Hexachlorobutadiene       | 13.719 | 225   | 2042     | 1.318    | ug/l   | 96       |
| 95) Naphthalene               | 13.774 | 128   | 12846    | 0.962    | ug/l   | 98       |
| 96) 1,2,3-Trichlorobenzene    | 13.963 | 180   | 1201     | 0.274    | ug/l   | 94       |
| -----                         |        |       |          |          |        |          |

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

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Sample : Q2814-03  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-17M-W

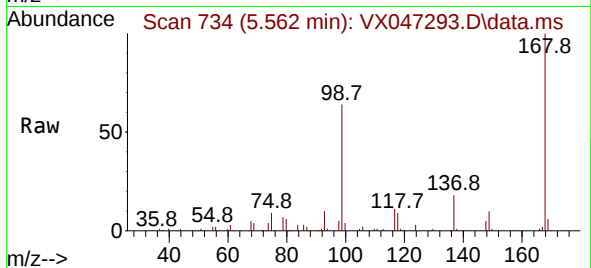
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X072125W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jul 22 03:59:51 2025  
Response via : Initial Calibration



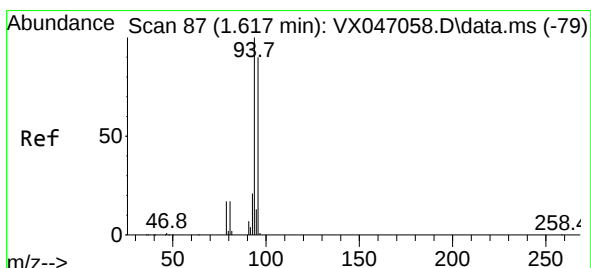
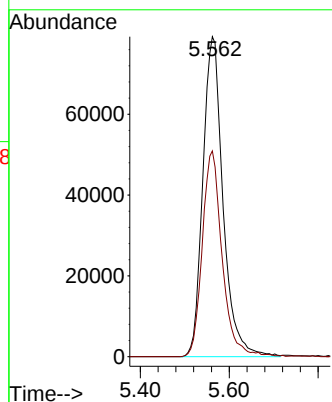
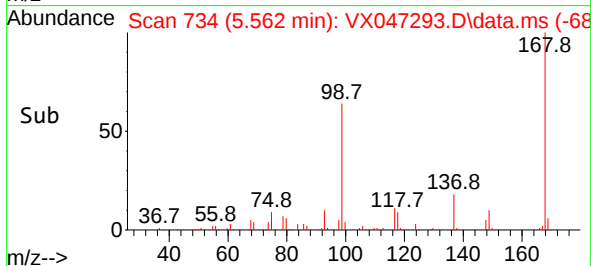


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-17M-W

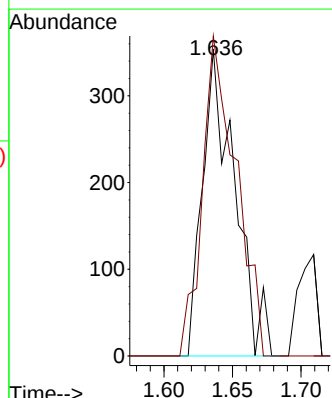
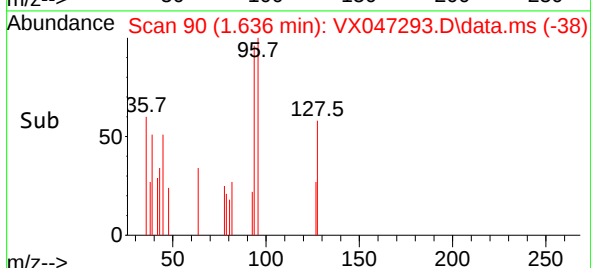
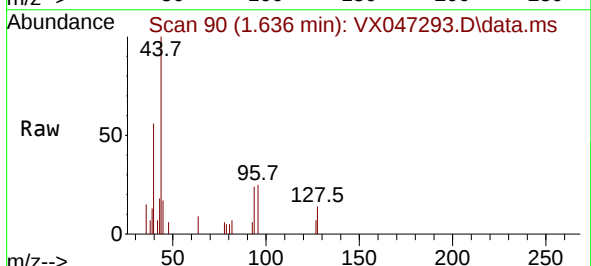


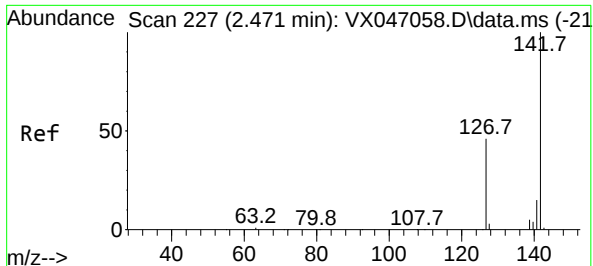
Tgt Ion:168 Resp: 250644  
Ion Ratio Lower Upper  
168 100  
99 64.3 48.0 72.0



#5  
Bromomethane  
Concen: 0.300 ug/l  
RT: 1.636 min Scan# 90  
Delta R.T. 0.019 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

Tgt Ion: 94 Resp: 576  
Ion Ratio Lower Upper  
94 100  
96 104.2 72.3 108.5

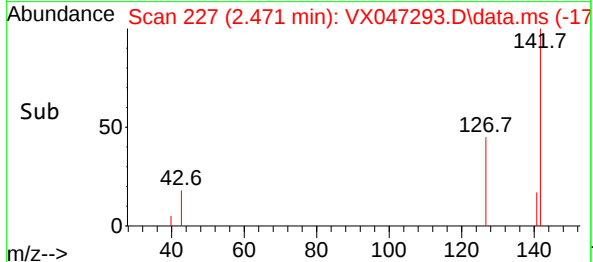
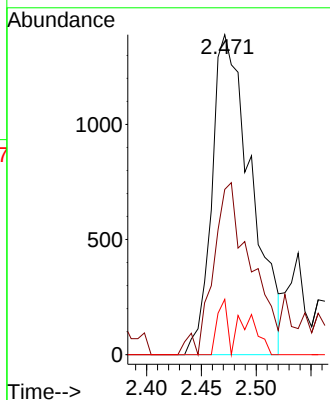
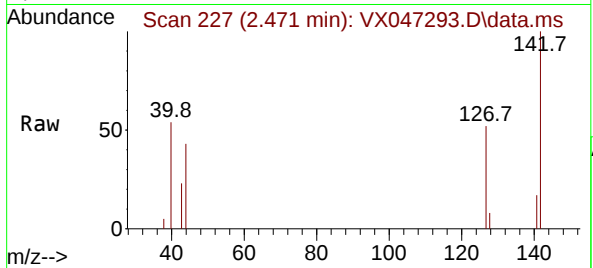




#10  
Methyl Iodide  
Concen: 1.073 ug/l  
RT: 2.471 min Scan# 21  
Delta R.T. 0.001 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

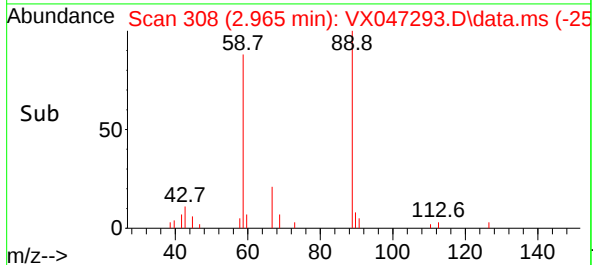
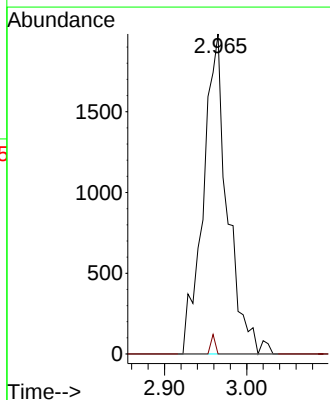
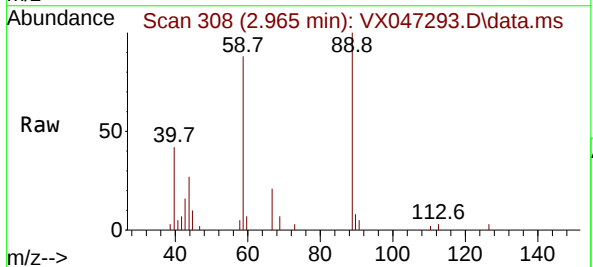
Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-17M-W

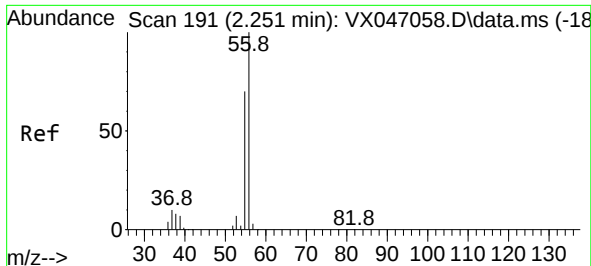
Tgt Ion:142 Resp: 3479  
Ion Ratio Lower Upper  
142 100  
127 52.0 36.6 54.8  
141 4.4 10.9 16.3#



#11  
Tert butyl alcohol  
Concen: 0.913 ug/l  
RT: 2.965 min Scan# 308  
Delta R.T. 0.007 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

Tgt Ion: 59 Resp: 4074  
Ion Ratio Lower Upper  
59 100  
57 1.1 8.5 12.7#

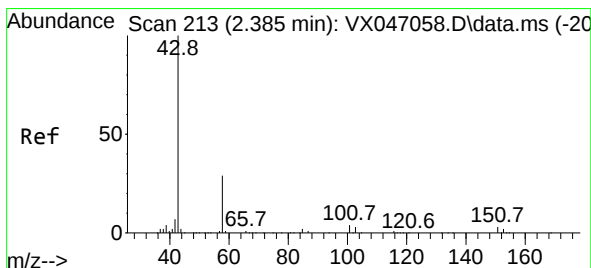
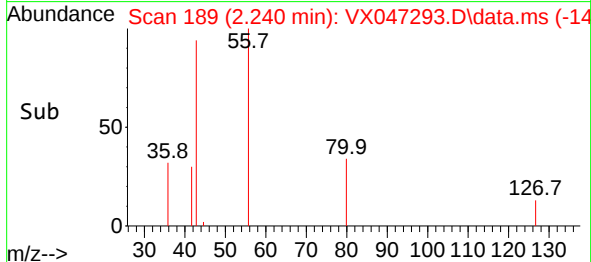
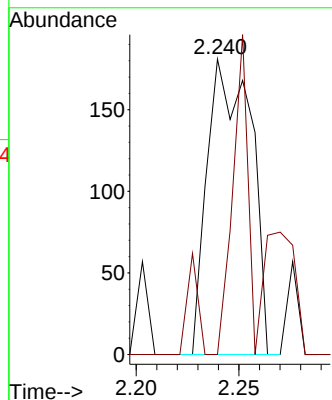
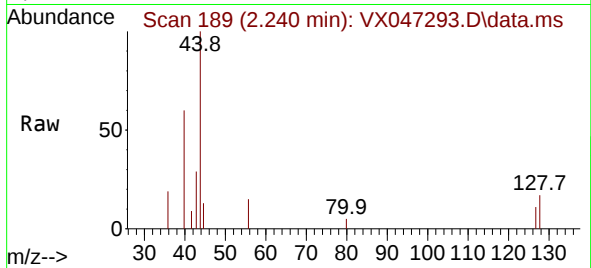




#13  
Acrolein  
Concen: 0.399 ug/l  
RT: 2.240 min Scan# 11  
Delta R.T. -0.012 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

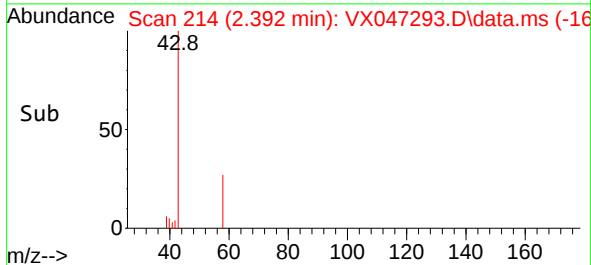
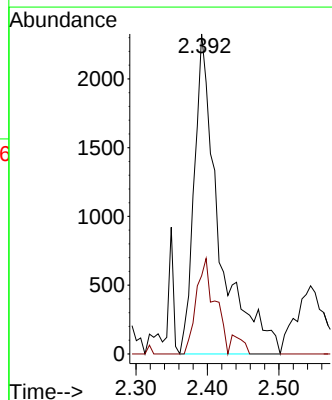
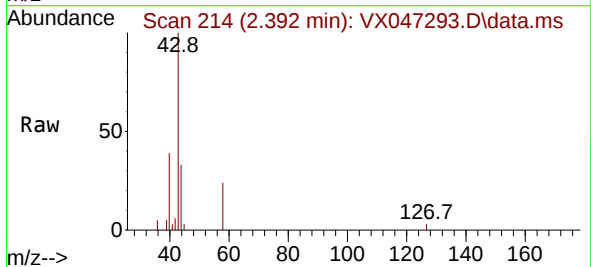
Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-17M-W

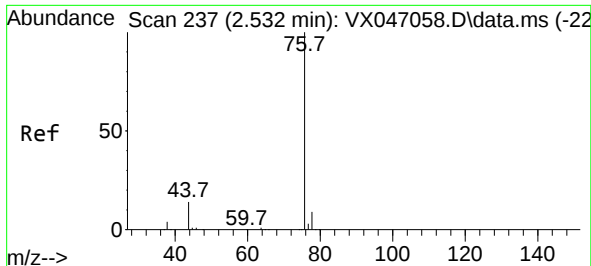
Tgt Ion: 56 Resp: 268  
Ion Ratio Lower Upper  
56 100  
55 47.0 55.7 83.5#



#16  
Acetone  
Concen: 4.485 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. 0.007 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

Tgt Ion: 43 Resp: 5610  
Ion Ratio Lower Upper  
43 100  
58 24.5 24.0 36.0





#17

Carbon Disulfide

Concen: 0.378 ug/l

RT: 2.526 min Scan# 21

Delta R.T. -0.006 min

Lab File: VX047293.D

Acq: 12 Aug 2025 13:51

Instrument :

MSVOA\_X

ClientSampleId :

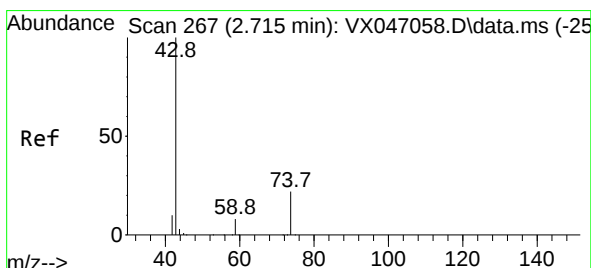
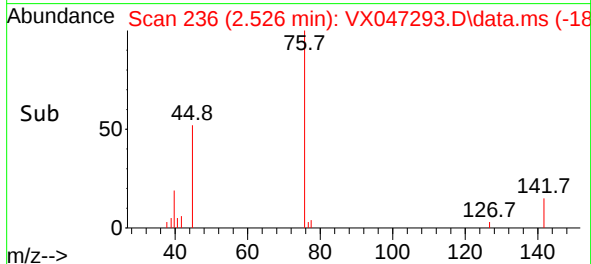
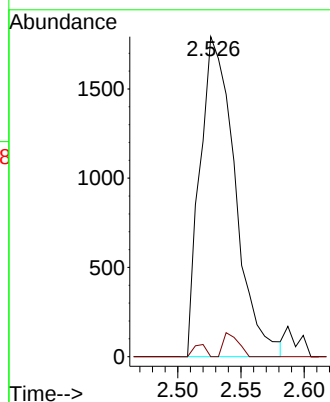
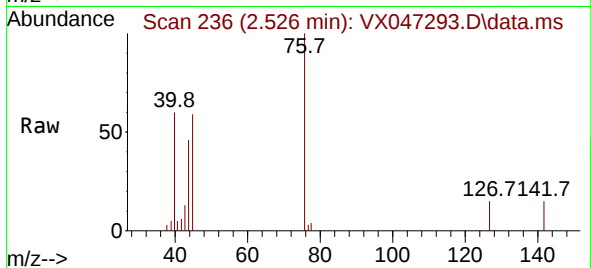
TW-17M-W

Tgt Ion: 76 Resp: 3443

Ion Ratio Lower Upper

76 100

78 0.0 7.0 10.4#



#18

Methyl Acetate

Concen: 0.333 ug/l

RT: 2.715 min Scan# 267

Delta R.T. 0.001 min

Lab File: VX047293.D

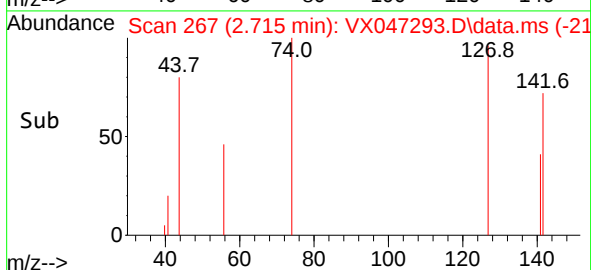
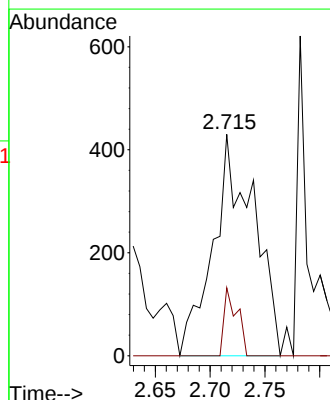
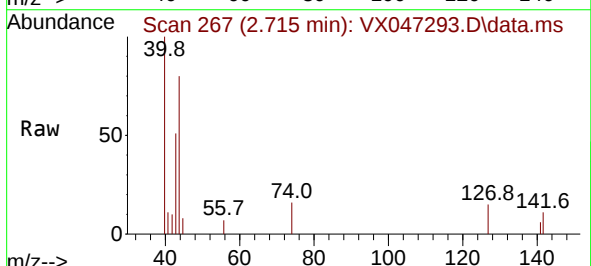
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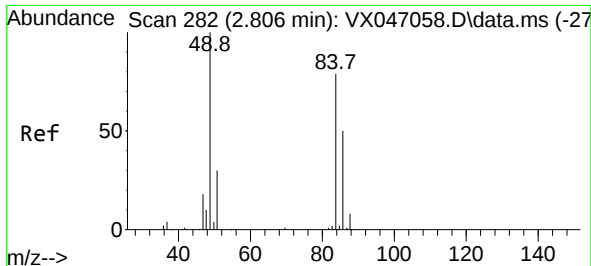
Tgt Ion: 43 Resp: 1108

Ion Ratio Lower Upper

43 100

74 9.9 17.7 26.5#

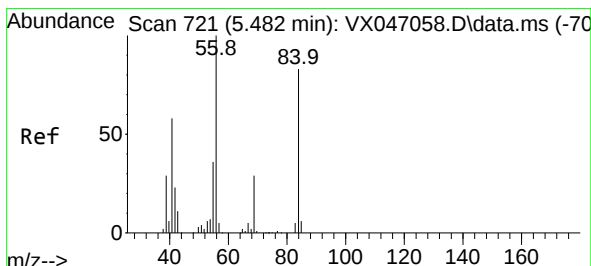
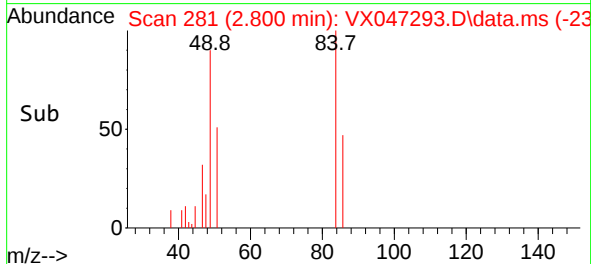
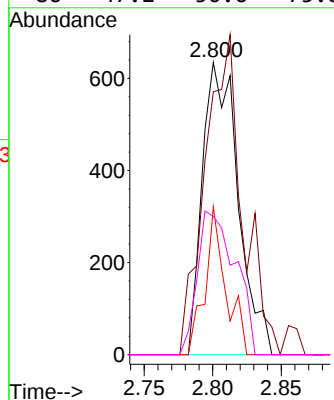
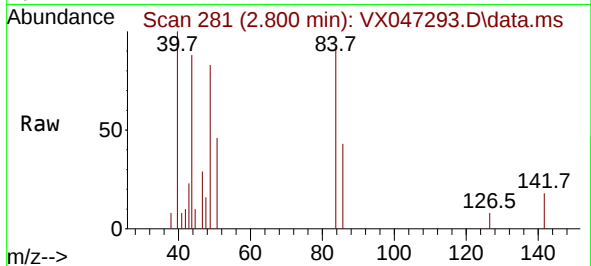




#20  
Methylene Chloride  
Concen: 0.334 ug/l  
RT: 2.800 min Scan# 211  
Delta R.T. -0.006 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

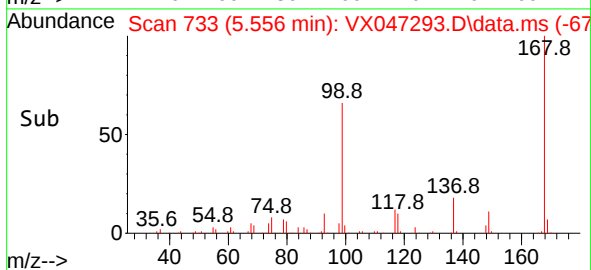
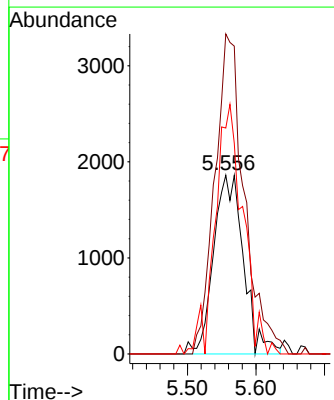
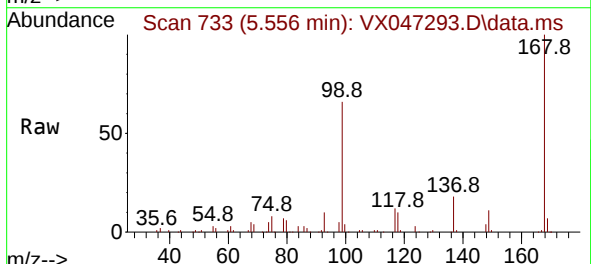
Instrument :  
MSVOA\_X  
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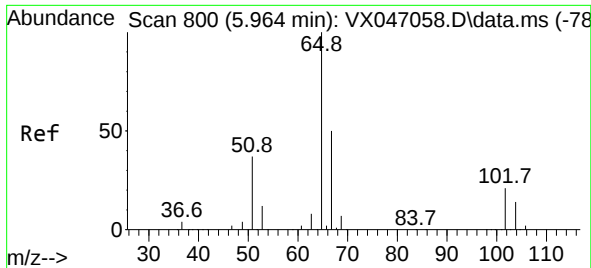
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 84    | Resp: | 1151   |
| Ion      | Ratio | Lower | Upper  |
| 84       | 100   |       |        |
| 49       | 89.9  | 101.6 | 152.4# |
| 51       | 50.6  | 30.3  | 45.5#  |
| 86       | 47.2  | 50.6  | 75.8#  |



#31  
Cyclohexane  
Concen: 0.968 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. 0.074 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 5648  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 179.0 | 23.3  | 34.9# |
| 84       | 126.3 | 66.5  | 99.7# |

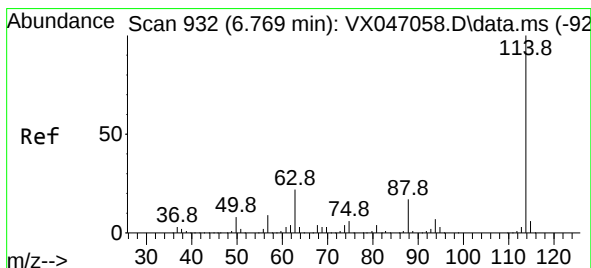
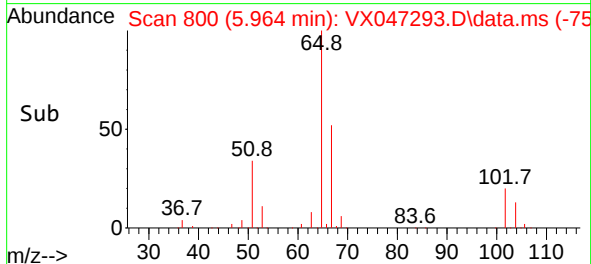
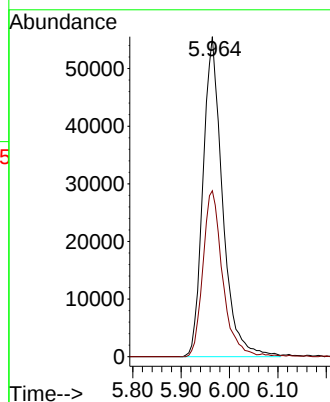
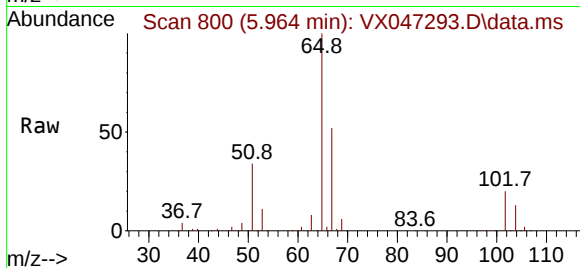




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.935 ug/l  
 RT: 5.964 min Scan# 800  
 Delta R.T. 0.001 min  
 Lab File: VX047293.D  
 Acq: 12 Aug 2025 13:51

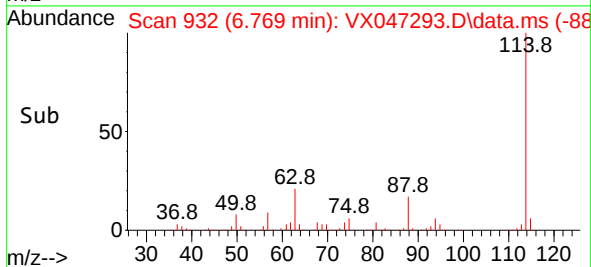
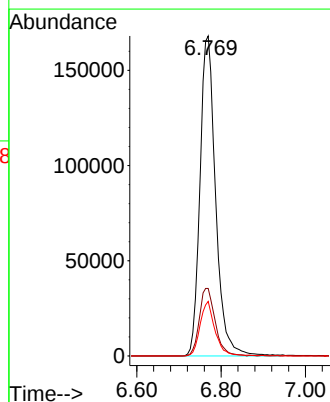
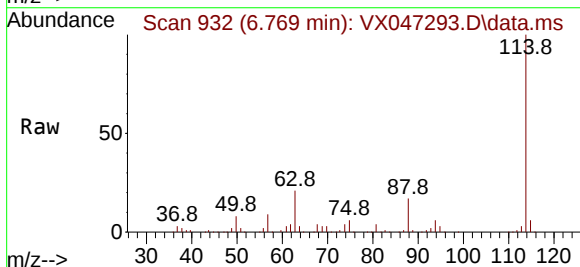
Instrument :  
 MSVOA\_X  
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 TW-17M-W

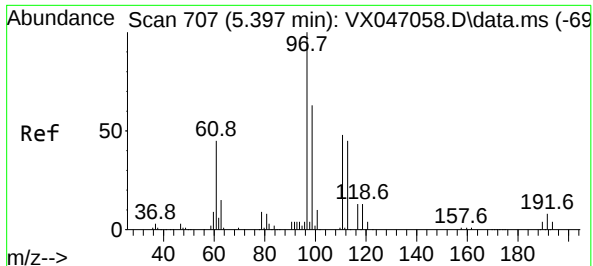
Tgt Ion: 65 Resp: 155908  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 104.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.769 min Scan# 932  
 Delta R.T. 0.001 min  
 Lab File: VX047293.D  
 Acq: 12 Aug 2025 13:51

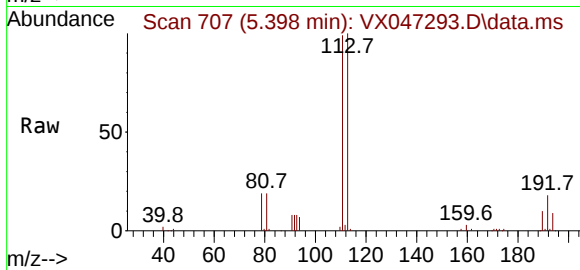
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 Ion Ratio Lower Upper  
 114 100  
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 88 17.1 0.0 33.8



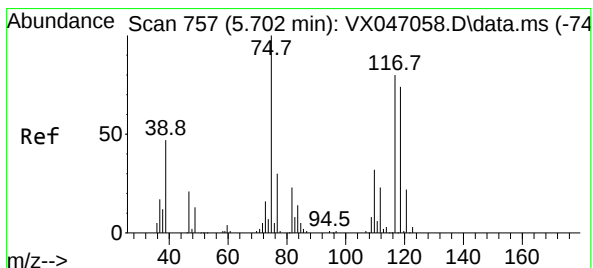
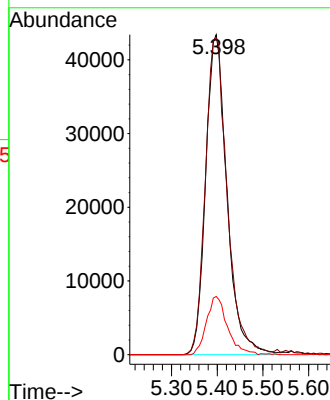
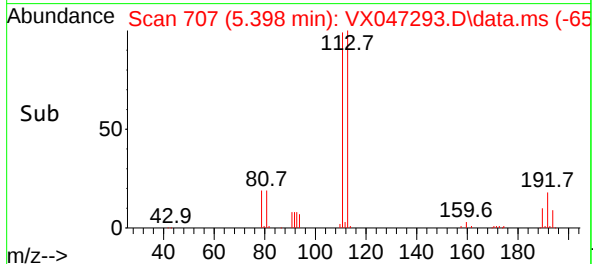


#35  
Dibromofluoromethane  
Concen: 52.217 ug/l  
RT: 5.398 min Scan# 707  
Delta R.T. 0.001 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-17M-W

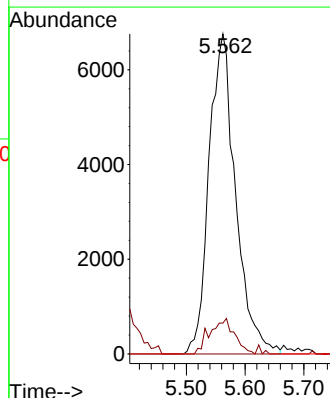
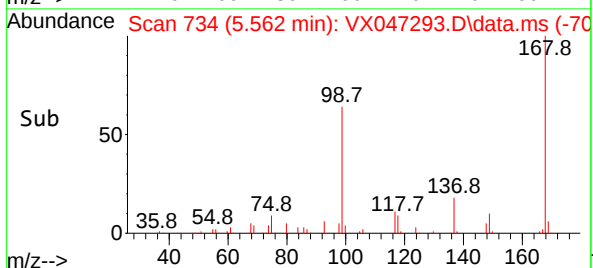
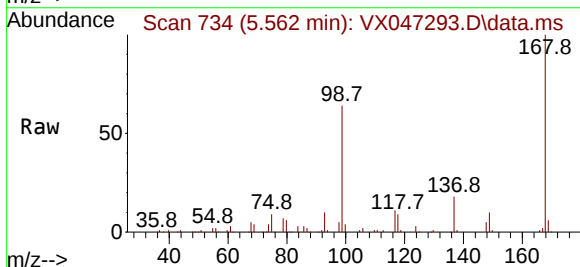


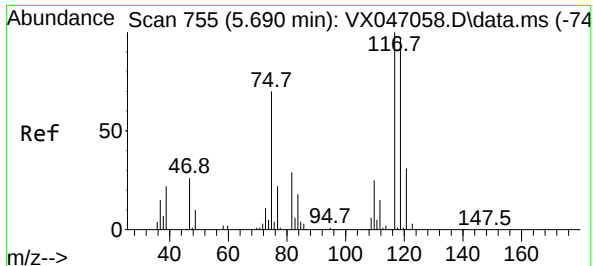
Tgt Ion:113 Resp: 140298  
Ion Ratio Lower Upper  
113 100  
111 101.5 82.6 124.0  
192 17.9 14.9 22.3



#36  
1,1-Dichloropropene  
Concen: 4.628 ug/l  
RT: 5.562 min Scan# 734  
Delta R.T. -0.140 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

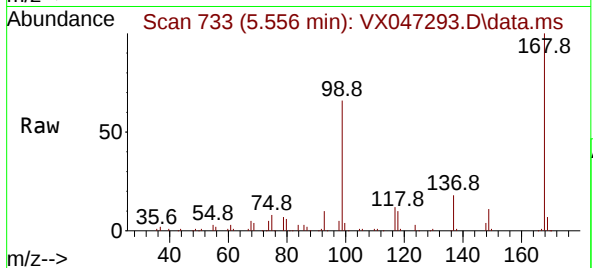
Tgt Ion: 75 Resp: 21195  
Ion Ratio Lower Upper  
75 100  
110 10.2 17.2 51.5#  
77 0.0 25.1 37.7#



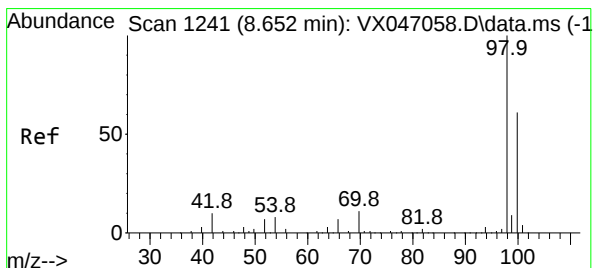
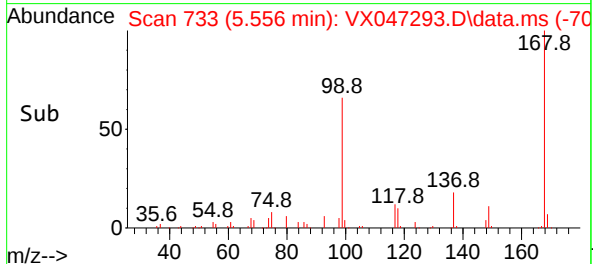
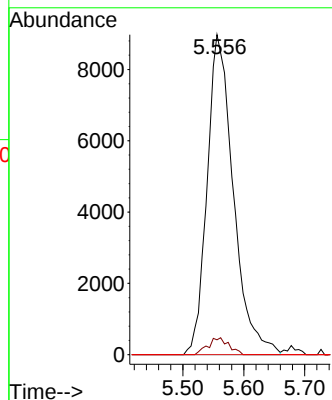


#38  
Carbon Tetrachloride  
Concen: 5.506 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.134 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-17M-W

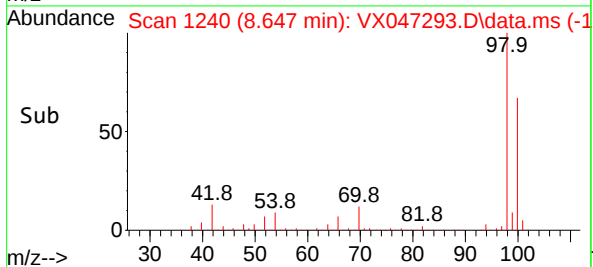
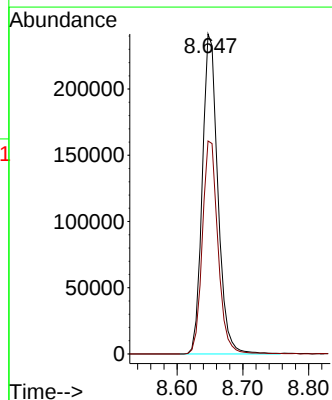
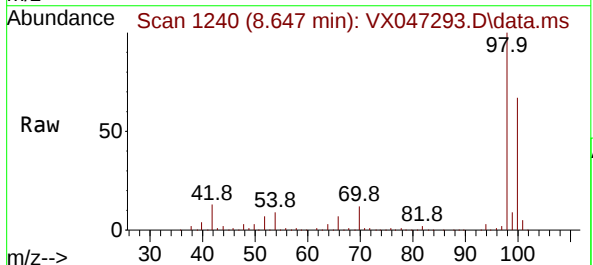


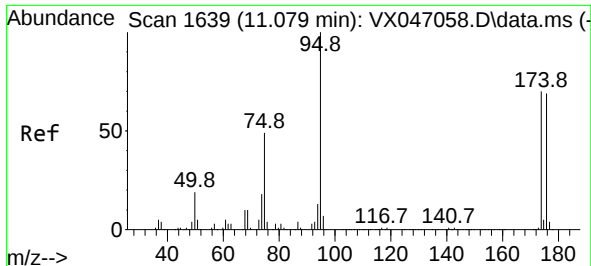
Tgt Ion:117 Resp: 26914  
Ion Ratio Lower Upper  
117 100  
119 4.7 76.6 115.0#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 45.596 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.006 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

Tgt Ion: 98 Resp: 396744  
Ion Ratio Lower Upper  
98 100  
100 66.9 53.3 79.9

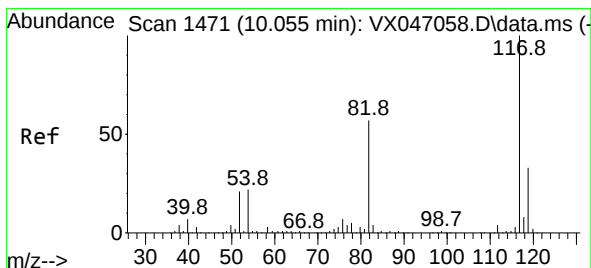
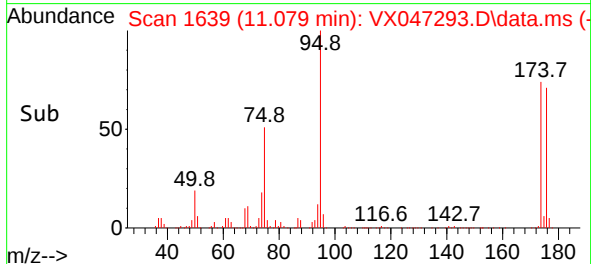
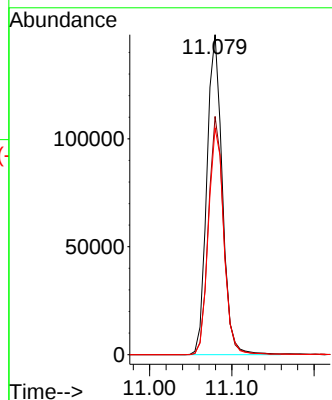
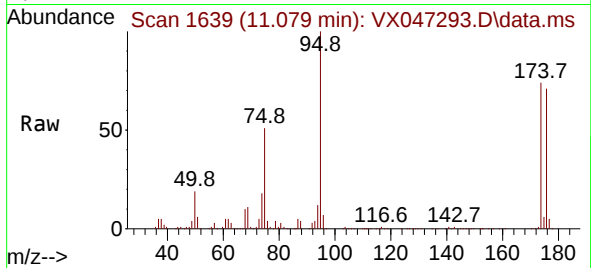




#62  
4-Bromofluorobenzene  
Concen: 51.442 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.001 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

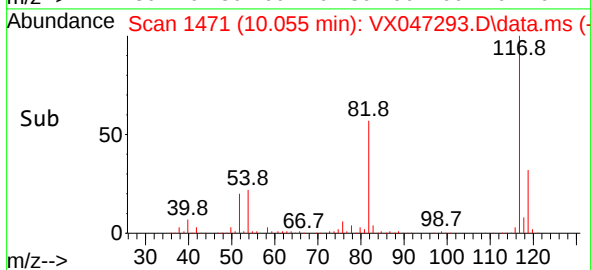
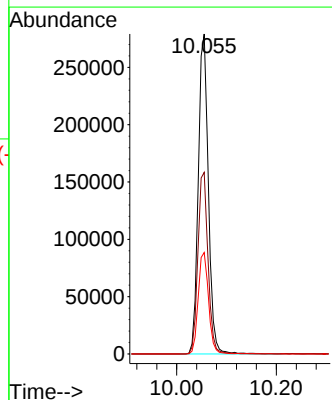
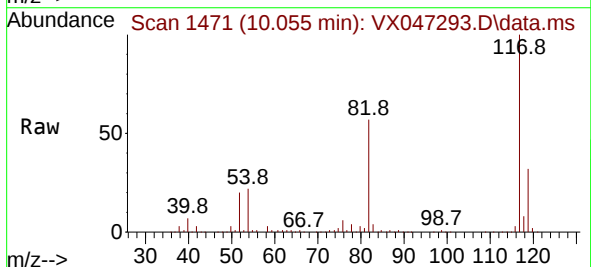
Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-17M-W

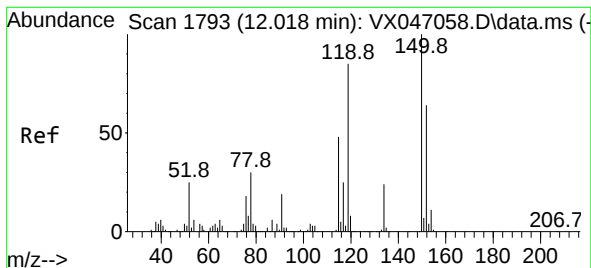
Tgt Ion: 95 Resp: 192896  
Ion Ratio Lower Upper  
95 100  
174 73.5 0.0 144.6  
176 71.2 0.0 139.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.001 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

Tgt Ion: 117 Resp: 391228  
Ion Ratio Lower Upper  
117 100  
82 56.7 45.4 68.2  
119 31.7 26.1 39.1





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 11

Delta R.T. 0.001 min

Lab File: VX047293.D

Acq: 12 Aug 2025 13:51

Instrument :

MSVOA\_X

ClientSampleId :

TW-17M-W

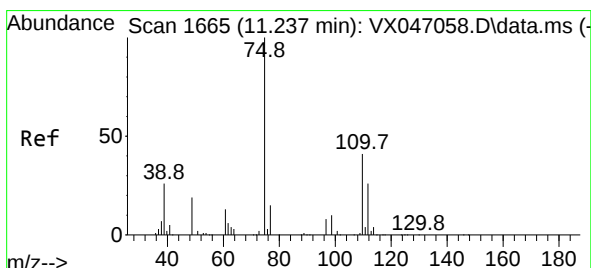
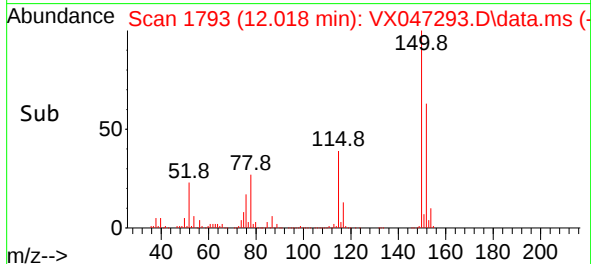
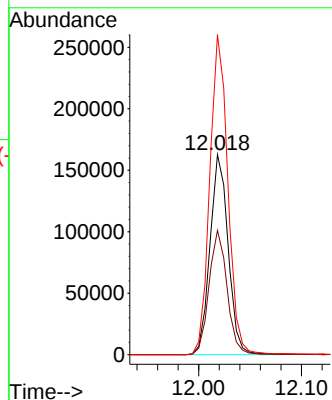
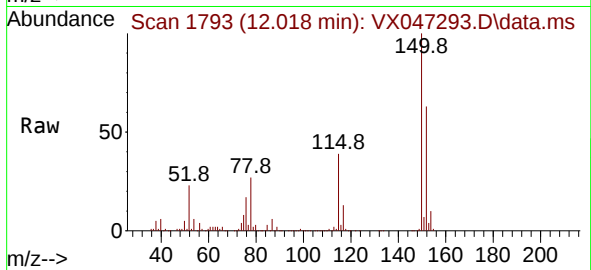
Tgt Ion:152 Resp: 200683

Ion Ratio Lower Upper

152 100

115 61.7 45.6 136.7

150 158.4 0.0 354.6



#76

1,2,3-Trichloropropane

Concen: 26.863 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX047293.D

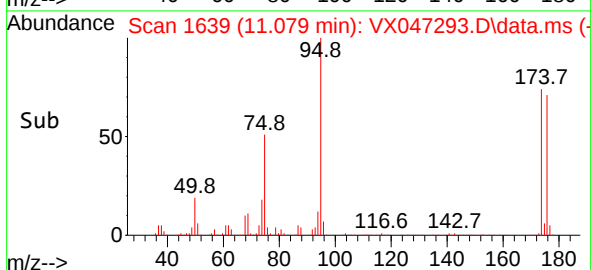
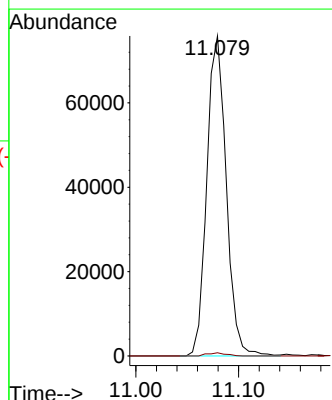
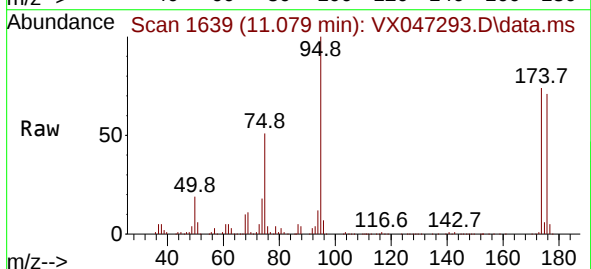
Acq: 12 Aug 2025 13:51

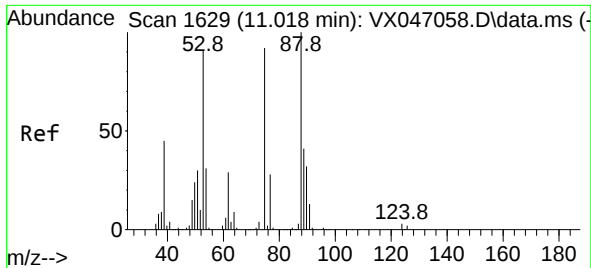
Tgt Ion: 75 Resp: 99785

Ion Ratio Lower Upper

75 100

77 1.0 21.6 65.0#

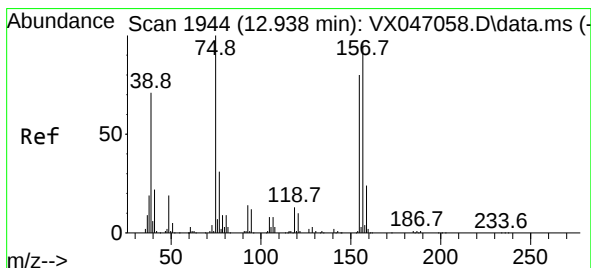
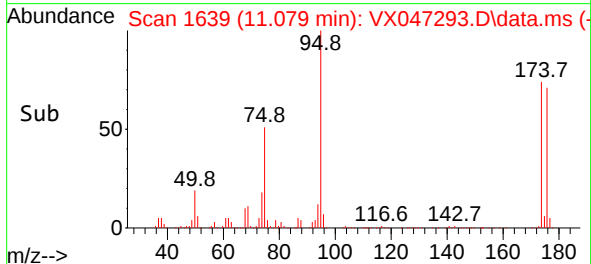
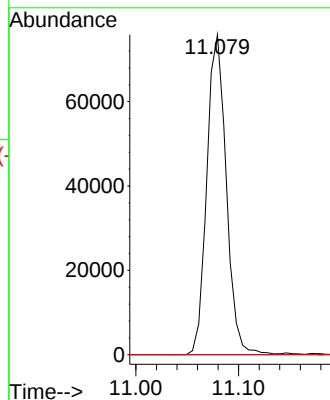
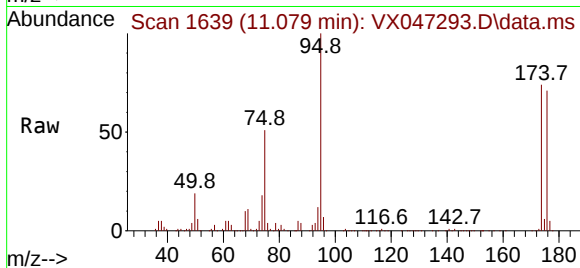




#81  
trans-1,4-Dichloro-2-butene  
Concen: 69.211 ug/l  
RT: 11.079 min Scan# 1107  
Delta R.T. 0.061 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

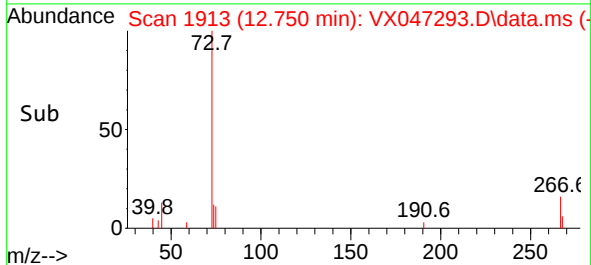
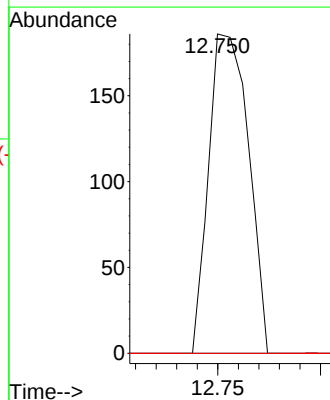
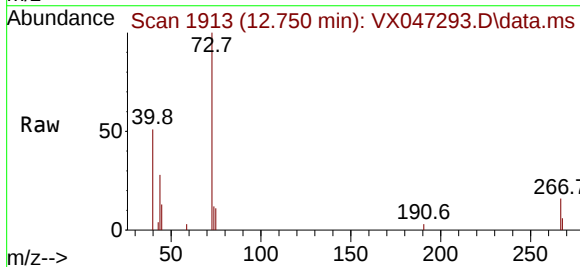
Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-17M-W

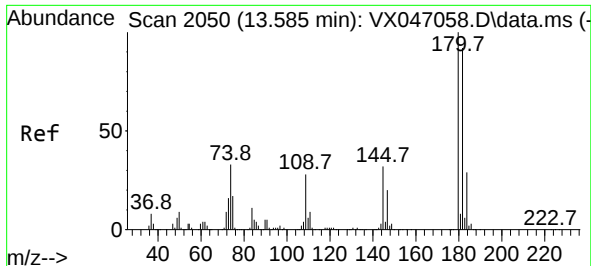
Tgt Ion: 75 Resp: 99785  
Ion Ratio Lower Upper  
75 100  
53 0.0 84.2 126.4#  
89 0.0 36.0 54.0#



#92  
1,2-Dibromo-3-Chloropropane  
Concen: 0.289 ug/l  
RT: 12.750 min Scan# 1913  
Delta R.T. -0.188 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

Tgt Ion: 75 Resp: 251  
Ion Ratio Lower Upper  
75 100  
155 0.0 41.3 124.1#  
157 0.0 52.8 158.3#

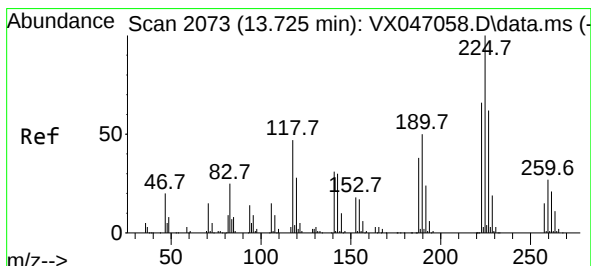
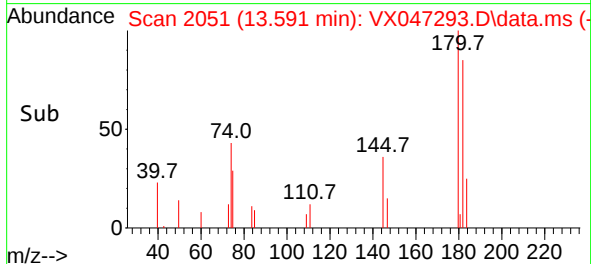
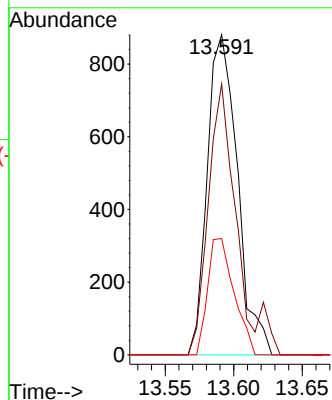
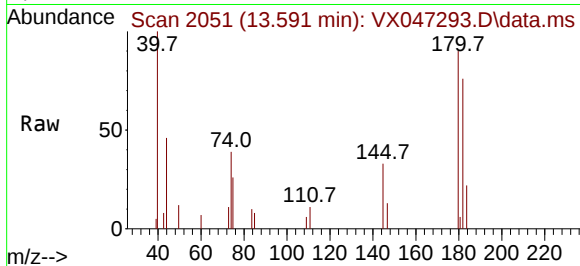




#93  
1,2,4-Trichlorobenzene  
Concen: 0.296 ug/l  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.007 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

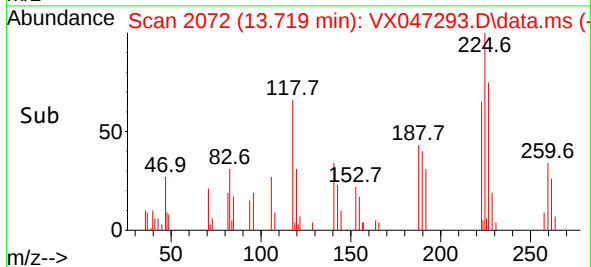
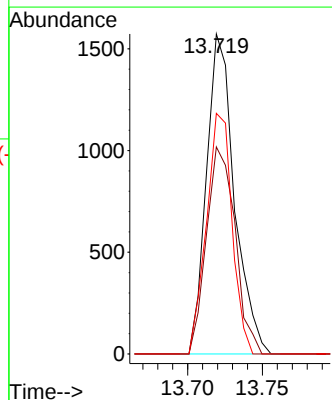
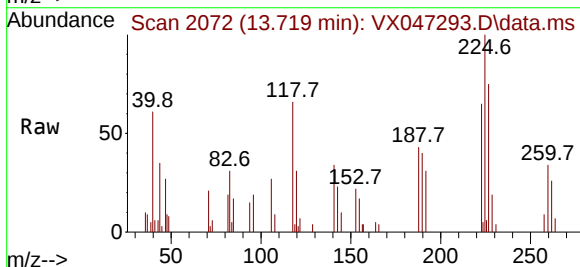
Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-17M-W

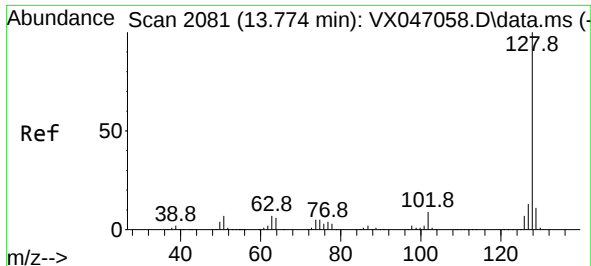
Tgt Ion:180 Resp: 1348  
Ion Ratio Lower Upper  
180 100  
182 79.5 47.3 141.8  
145 31.8 16.4 49.1



#94  
Hexachlorobutadiene  
Concen: 1.318 ug/l  
RT: 13.719 min Scan# 2072  
Delta R.T. -0.006 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

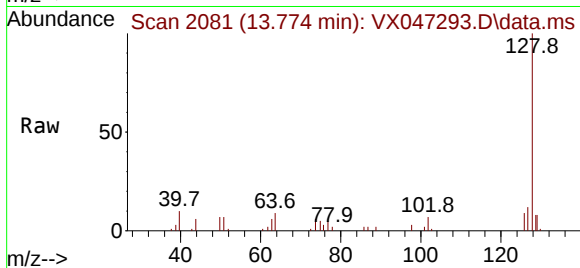
Tgt Ion:225 Resp: 2042  
Ion Ratio Lower Upper  
225 100  
223 66.4 31.6 95.0  
227 69.0 32.9 98.6



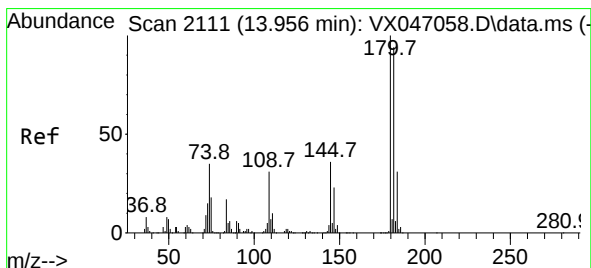
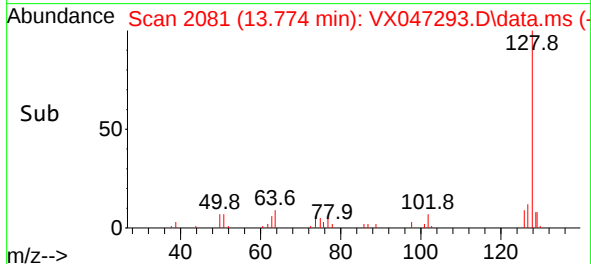
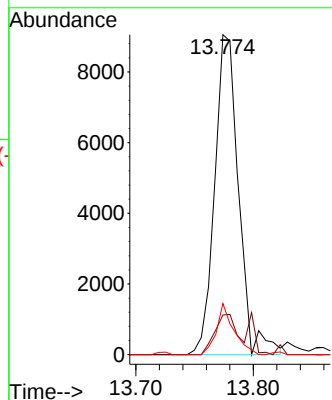


#95  
Naphthalene  
Concen: 0.962 ug/l  
RT: 13.774 min Scan# 2081  
Delta R.T. 0.001 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

Instrument :  
MSVOA\_X  
ClientSampleId :  
TW-17M-W



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 12846 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 11.8  | 10.1  | 15.1  |
| 129      | 11.6  | 8.6   | 13.0  |



#96  
1,2,3-Trichlorobenzene  
Concen: 0.274 ug/l  
RT: 13.963 min Scan# 2112  
Delta R.T. 0.007 min  
Lab File: VX047293.D  
Acq: 12 Aug 2025 13:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 1201  |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 90.2  | 46.9  | 140.6 |
| 145      | 27.9  | 17.3  | 52.0  |

