

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX101525\  
 Data File : VX048192.D  
 Acq On : 15 Oct 2025 15:38  
 Operator : JC/MD  
 Sample : Q3348-08  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Oct 16 04:07:27 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091625W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 17 06:39:58 2025  
 Response via : Initial Calibration

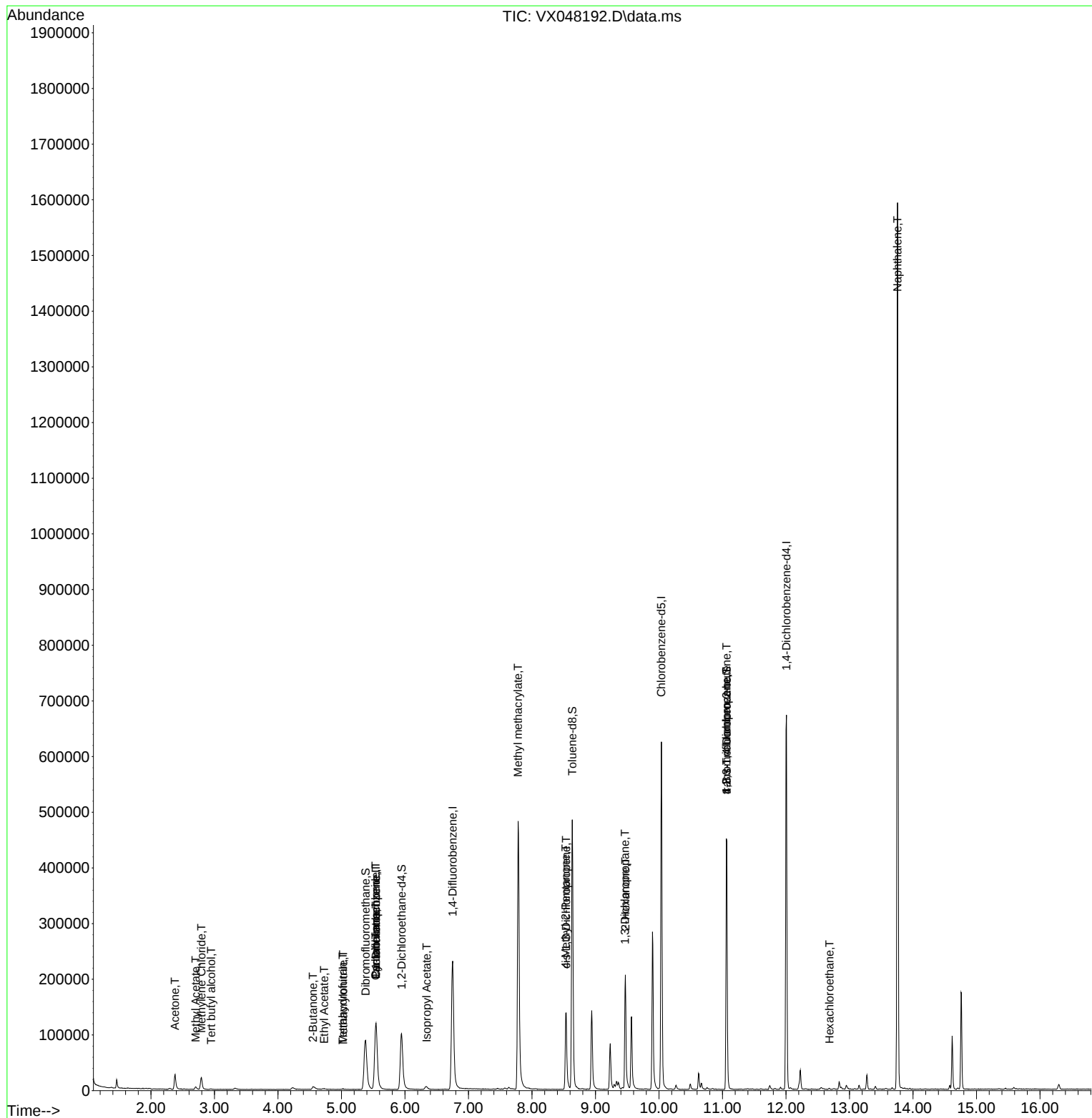
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.544  | 168   | 117617   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.751  | 114   | 250641   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.037 | 117   | 278464   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.006 | 152   | 139994   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.946  | 65    | 108626   | 58.022   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 116.040% |          |
| 35) Dibromofluoromethane      | 5.379  | 113   | 86553    | 51.491   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 102.980% |          |
| 50) Toluene-d8                | 8.635  | 98    | 294220   | 50.585   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 101.160% |          |
| 62) 4-Bromofluorobenzene      | 11.061 | 95    | 127925   | 57.952   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 115.900% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 2.947  | 59    | 588      | 2.820    | ug/l #     | 72       |
| 16) Acetone                   | 2.380  | 43    | 32914    | 40.434   | ug/l       | 95       |
| 18) Methyl Acetate            | 2.703  | 43    | 6885     | 3.800    | ug/l       | 93       |
| 20) Methylene Chloride        | 2.794  | 84    | 9822     | 5.700    | ug/l       | 96       |
| 25) 2-Butanone                | 4.550  | 43    | 11536    | 11.361   | ug/l #     | 88       |
| 29) Tetrahydrofuran           | 5.019  | 42    | 472      | 0.773    | ug/l #     | 81       |
| 31) Cyclohexane               | 5.544  | 56    | 2892     | 1.169    | ug/l #     | 36       |
| 36) 1,1-Dichloropropene       | 5.544  | 75    | 10112    | 4.117    | ug/l #     | 51       |
| 37) Ethyl Acetate             | 4.727  | 43    | 4108     | 1.562    | ug/l #     | 87       |
| 38) Carbon Tetrachloride      | 5.538  | 117   | 12435    | 4.659    | ug/l #     | 19       |
| 41) Methacrylonitrile         | 5.026  | 41    | 387      | 0.285    | ug/l #     | 40       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 8787     | 2.037    | ug/l #     | 92       |
| 48) Methyl methacrylate       | 7.781  | 41    | 49406    | 22.996   | ug/l #     | 48       |
| 51) 4-Methyl-2-Pentanone      | 8.531  | 43    | 55303    | 23.125   | ug/l #     | 50       |
| 54) cis-1,3-Dichloropropene   | 8.537  | 75    | 24505    | 7.836    | ug/l #     | 64       |
| 57) 1,3-Dichloropropane       | 9.464  | 76    | 1771     | 0.582    | ug/l #     | 42       |
| 59) 2-Hexanone                | 9.470  | 43    | 26764    | 15.583   | ug/l #     | 56       |
| 76) 1,2,3-Trichloropropane    | 11.061 | 75    | 68124    | 24.034   | ug/l #     | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.061 | 75    | 68124    | 61.291   | ug/l #     | 8        |
| 90) Hexachloroethane          | 12.683 | 117   | 1004     | 0.635    | ug/l #     | 16       |
| 95) Naphthalene               | 13.756 | 128   | 914171   | 99.583   | ug/l       | 100      |
| -----                         |        |       |          |          |            |          |

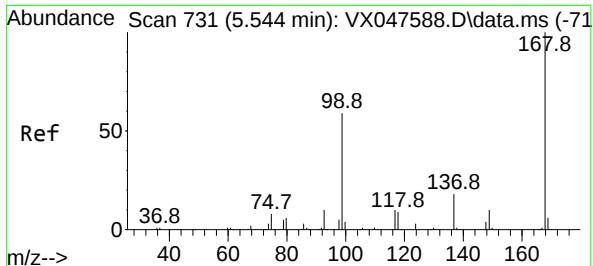
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

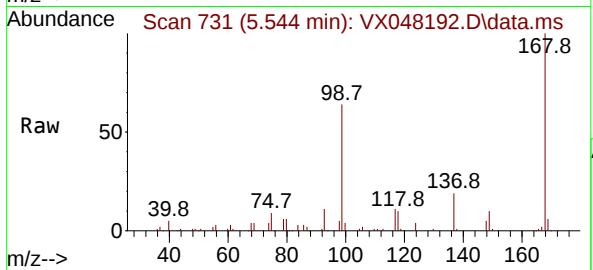
Quant Time: Oct 16 04:07:27 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X091625W.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 17 06:39:58 2025  
Response via : Initial Calibration



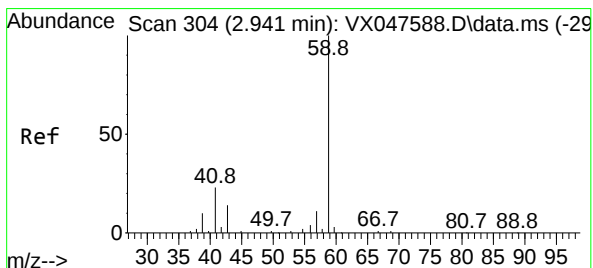
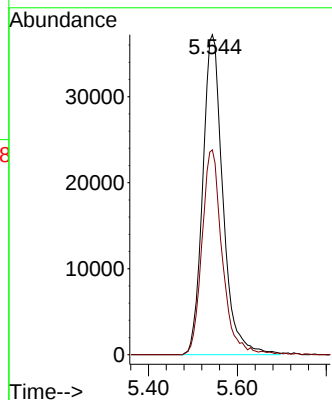
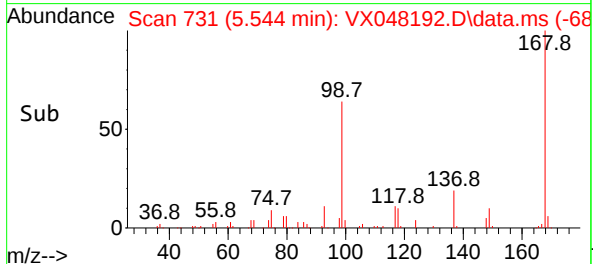


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

Instrument :  
MSVOA\_X  
ClientSampleId :

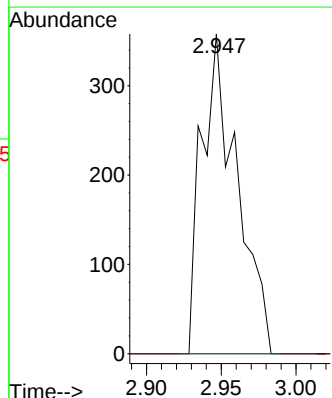
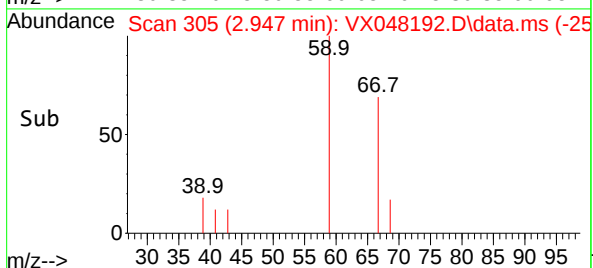
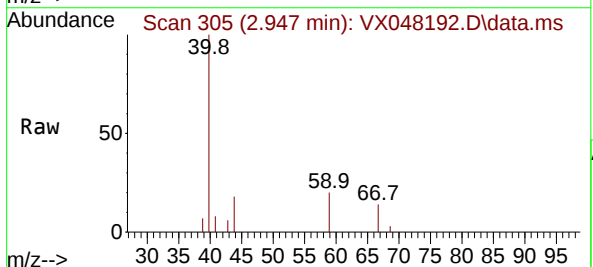


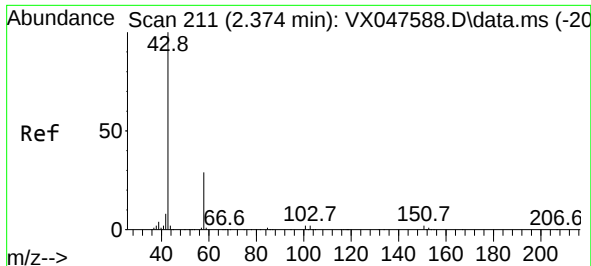
Tgt Ion:168 Resp: 117617  
Ion Ratio Lower Upper  
168 100  
99 64.0 48.8 73.2



#11  
Tert butyl alcohol  
Concen: 2.820 ug/l  
RT: 2.947 min Scan# 305  
Delta R.T. 0.006 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

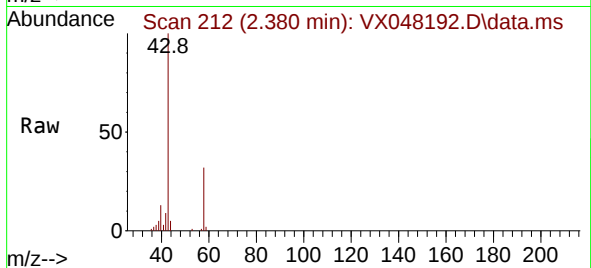
Tgt Ion: 59 Resp: 588  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#



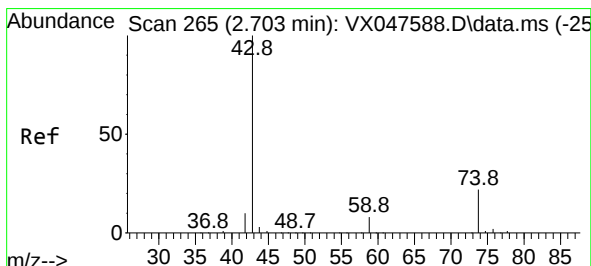
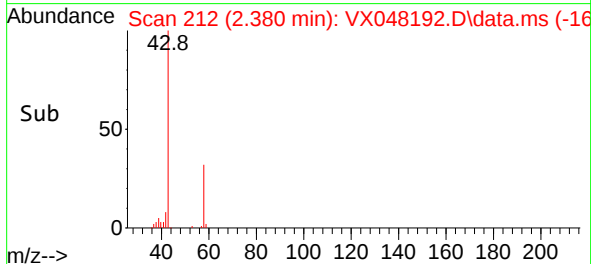
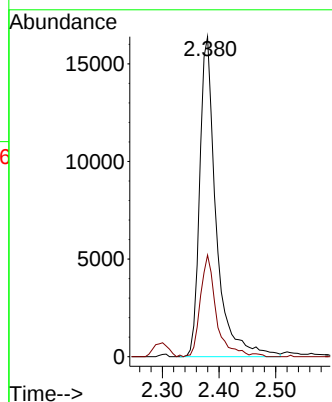


#16  
Acetone  
Concen: 40.434 ug/l  
RT: 2.380 min Scan# 211  
Delta R.T. 0.006 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

Instrument :  
MSVOA\_X  
ClientSampleId :

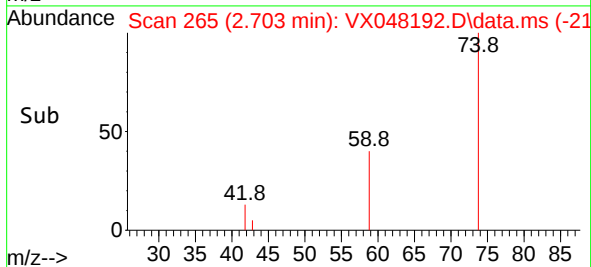
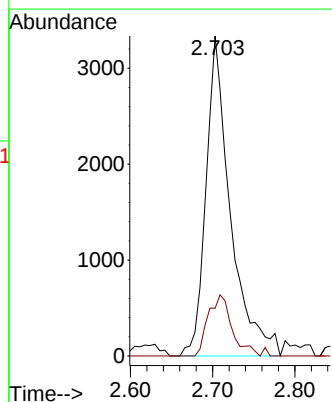
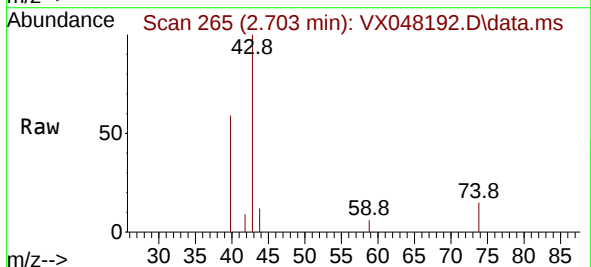


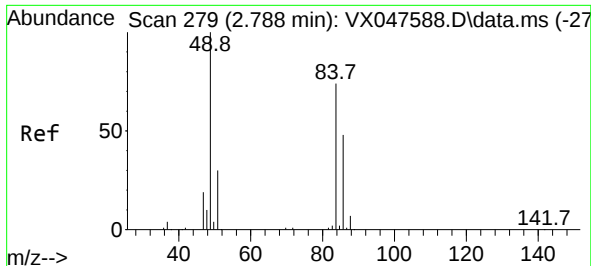
Tgt Ion: 43 Resp: 32914  
Ion Ratio Lower Upper  
43 100  
58 31.7 23.4 35.0



#18  
Methyl Acetate  
Concen: 3.800 ug/l  
RT: 2.703 min Scan# 265  
Delta R.T. 0.000 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

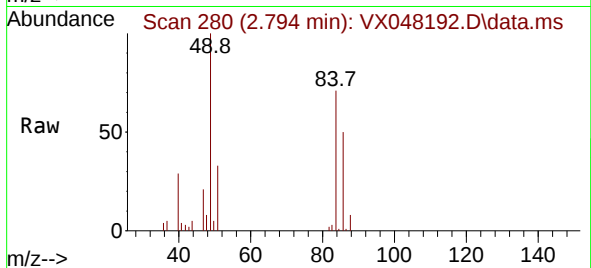
Tgt Ion: 43 Resp: 6885  
Ion Ratio Lower Upper  
43 100  
74 18.5 17.4 26.2





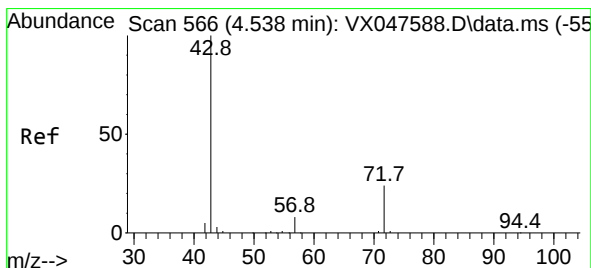
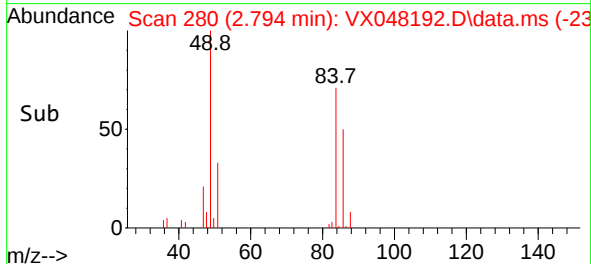
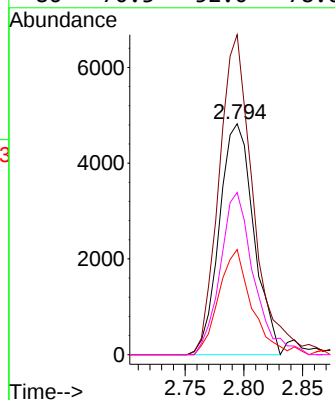
#20  
Methylene Chloride  
Concen: 5.700 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 84 Resp: 9822

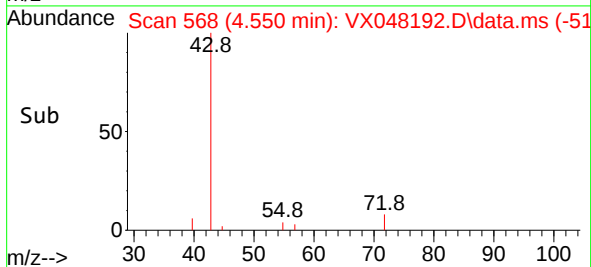
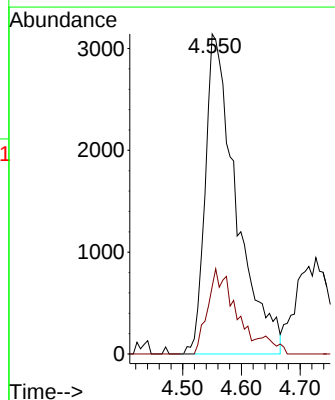
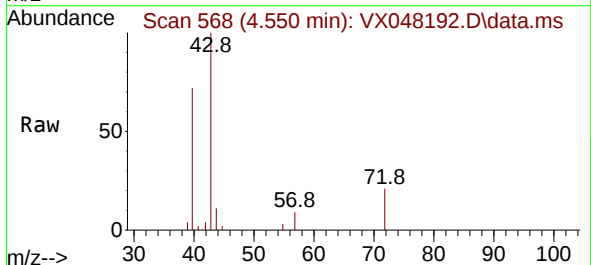
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 138.6 | 108.6 | 162.8 |
| 51  | 45.5  | 32.6  | 48.8  |
| 86  | 70.3  | 52.0  | 78.0  |

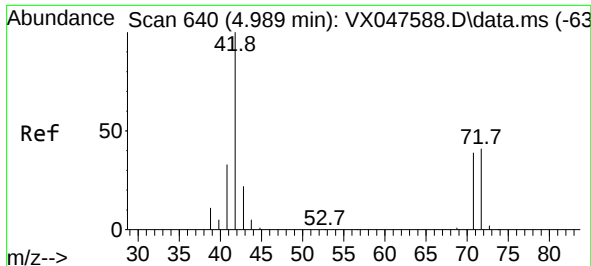


#25  
2-Butanone  
Concen: 11.361 ug/l  
RT: 4.550 min Scan# 568  
Delta R.T. 0.012 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

Tgt Ion: 43 Resp: 11536

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 43  | 100   |       |       |
| 72  | 19.0  | 20.1  | 30.1# |





#29

Tetrahydrofuran

Concen: 0.773 ug/l

RT: 5.019 min Scan# 640

Delta R.T. 0.030 min

Lab File: VX048192.D

Acq: 15 Oct 2025 15:38

Instrument :

MSVOA\_X

ClientSampleId :

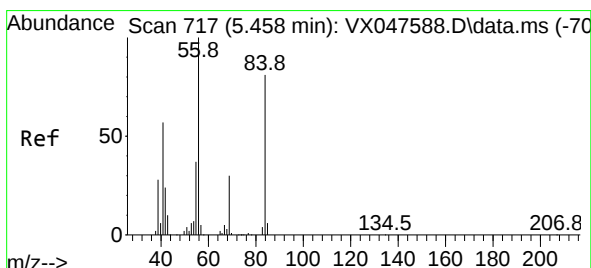
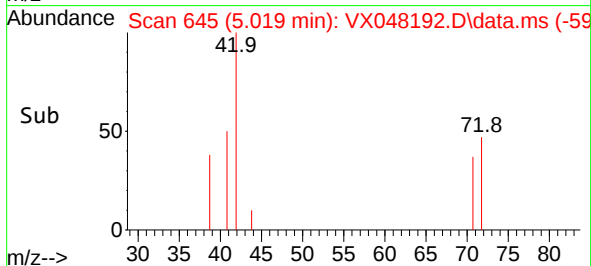
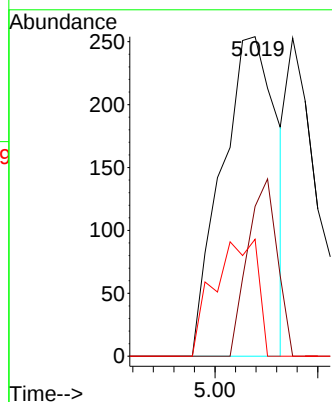
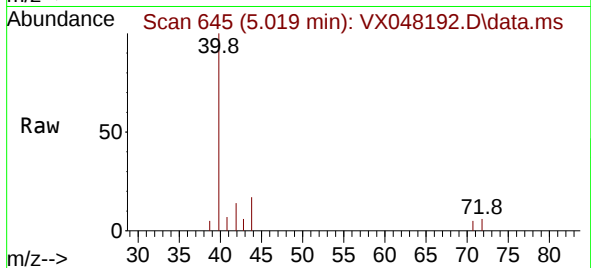
Tgt Ion: 42 Resp: 472

Ion Ratio Lower Upper

42 100

72 29.9 34.2 51.2#

71 29.0 31.9 47.9#



#31

Cyclohexane

Concen: 1.169 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.085 min

Lab File: VX048192.D

Acq: 15 Oct 2025 15:38

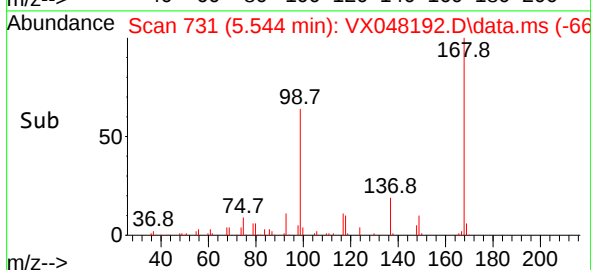
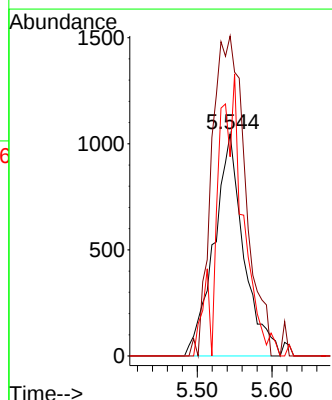
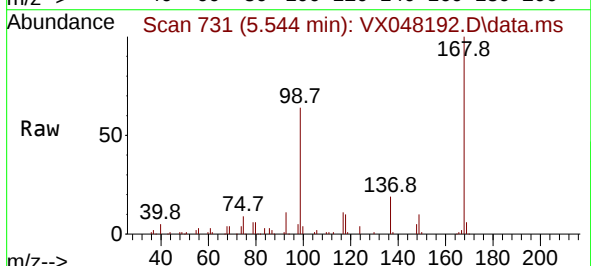
Tgt Ion: 56 Resp: 2892

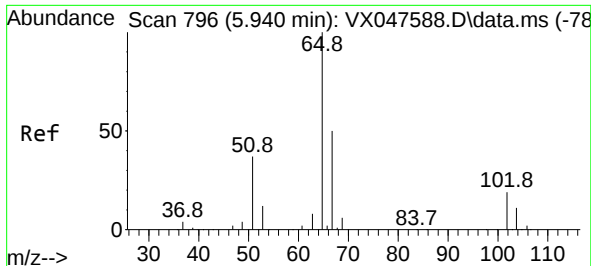
Ion Ratio Lower Upper

56 100

69 144.0 23.8 35.8#

84 89.7 64.6 97.0





#33

1,2-Dichloroethane-d4

Concen: 58.022 ug/l

RT: 5.946 min Scan# 796

Delta R.T. 0.006 min

Lab File: VX048192.D

Acq: 15 Oct 2025 15:38

Instrument :

MSVOA\_X

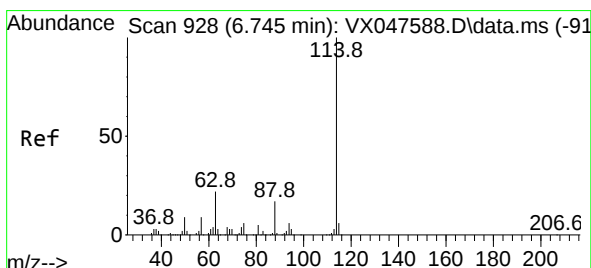
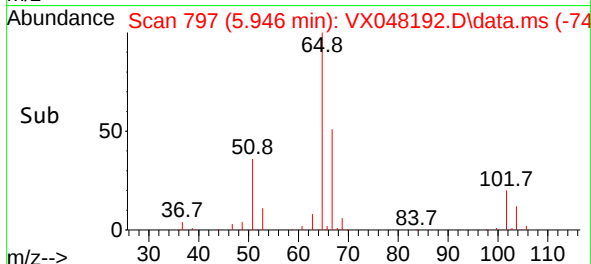
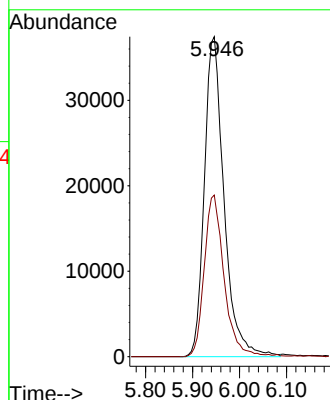
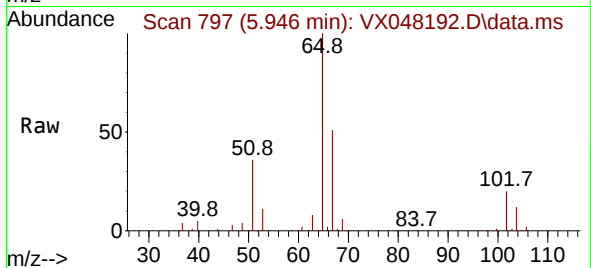
ClientSampleId :

Tgt Ion: 65 Resp: 108626

Ion Ratio Lower Upper

65 100

67 51.2 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. 0.006 min

Lab File: VX048192.D

Acq: 15 Oct 2025 15:38

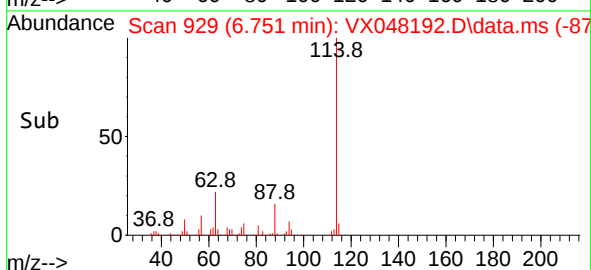
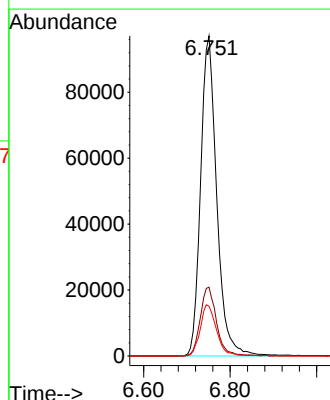
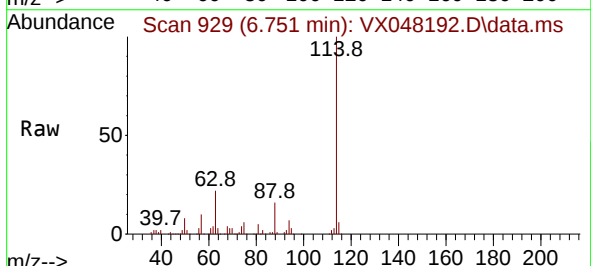
Tgt Ion: 114 Resp: 250641

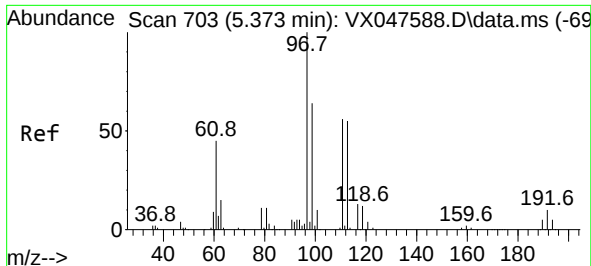
Ion Ratio Lower Upper

114 100

63 21.5 0.0 44.0

88 15.5 0.0 34.2

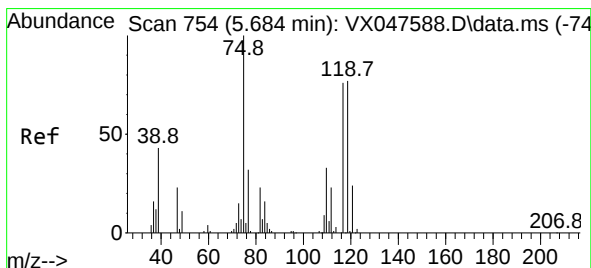
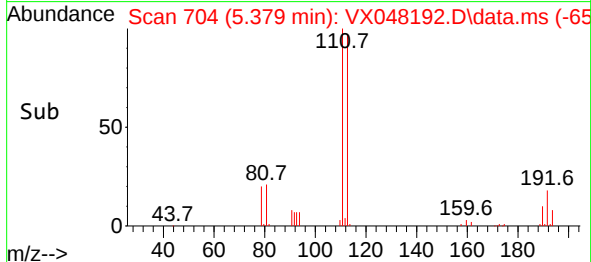
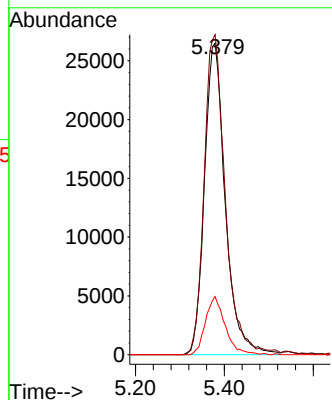
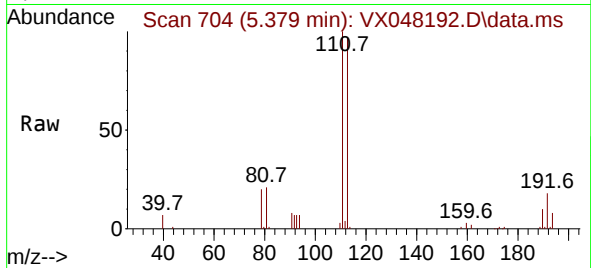




#35  
Dibromofluoromethane  
Concen: 51.491 ug/l  
RT: 5.379 min Scan# 703  
Delta R.T. 0.006 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

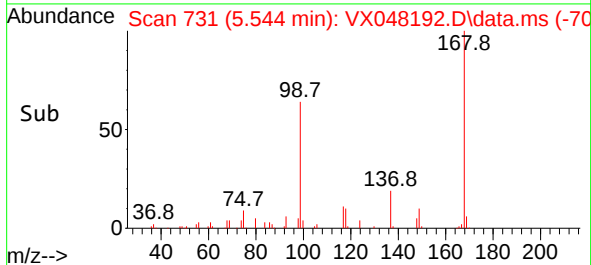
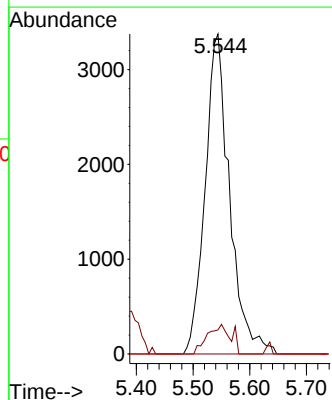
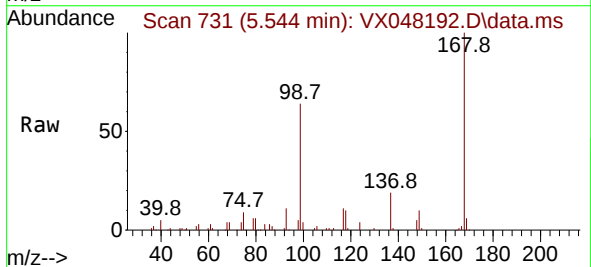
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MSVOA\_X  
ClientSampleId :

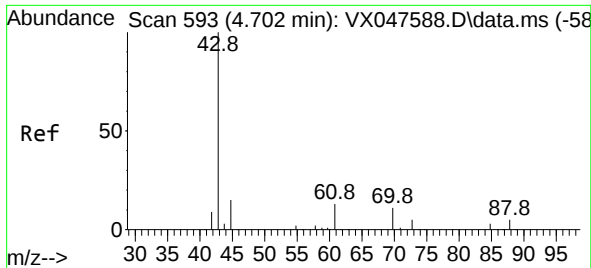
Tgt Ion:113 Resp: 86553  
Ion Ratio Lower Upper  
113 100  
111 103.9 80.9 121.3  
192 17.6 14.2 21.4



#36  
1,1-Dichloropropene  
Concen: 4.117 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.140 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

Tgt Ion: 75 Resp: 10112  
Ion Ratio Lower Upper  
75 100  
110 8.8 16.7 50.1#  
77 0.0 24.3 36.5#





#37

Ethyl Acetate

Concen: 1.562 ug/l

RT: 4.727 min Scan# 597

Delta R.T. 0.024 min

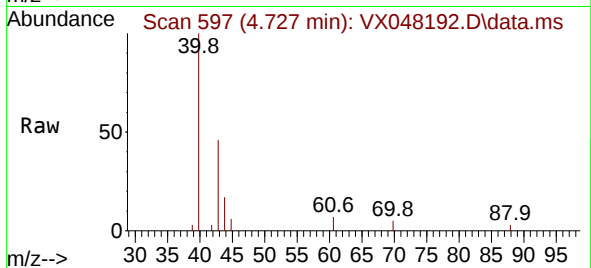
Lab File: VX048192.D

Acq: 15 Oct 2025 15:38

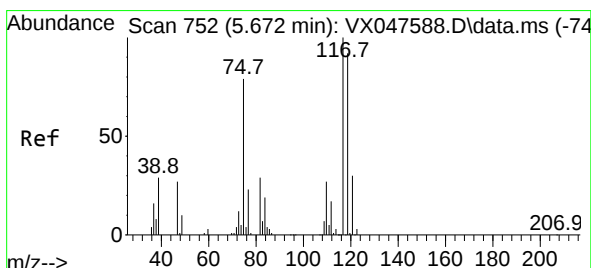
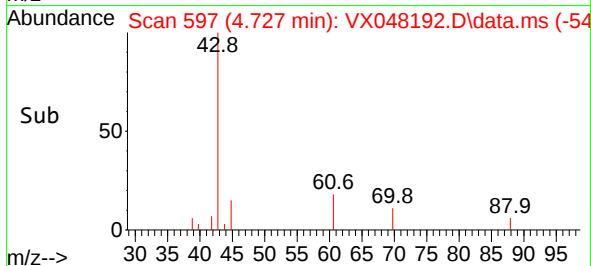
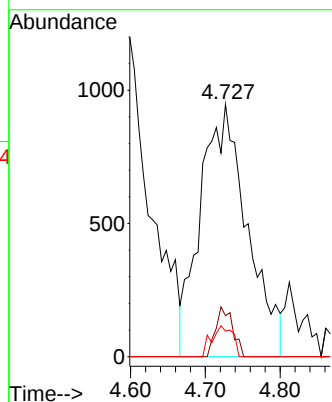
Instrument :

MSVOA\_X

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4108  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 7.2   | 9.8   | 14.8# |
| 70       | 5.5   | 7.9   | 11.9# |



#38

Carbon Tetrachloride

Concen: 4.659 ug/l

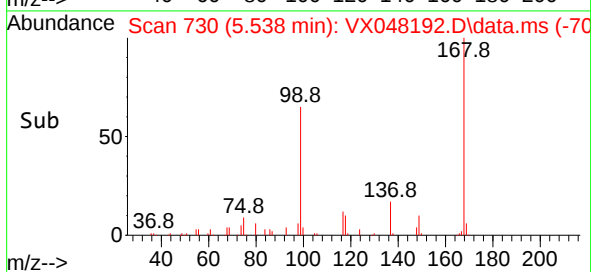
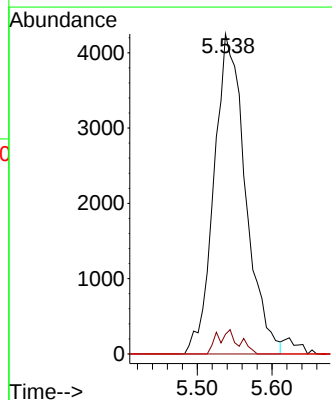
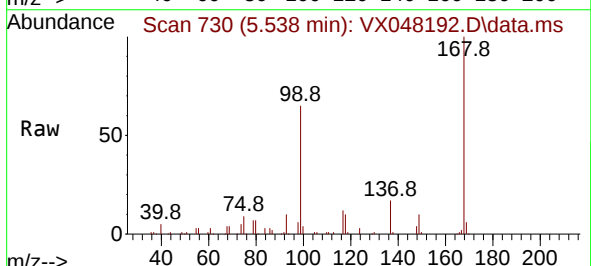
RT: 5.538 min Scan# 730

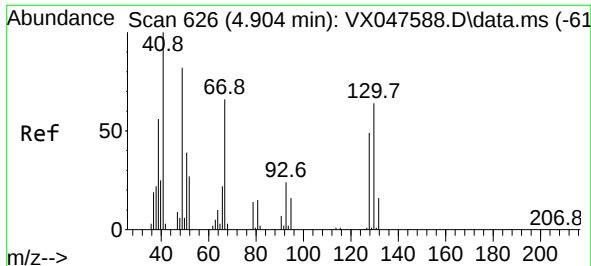
Delta R.T. -0.134 min

Lab File: VX048192.D

Acq: 15 Oct 2025 15:38

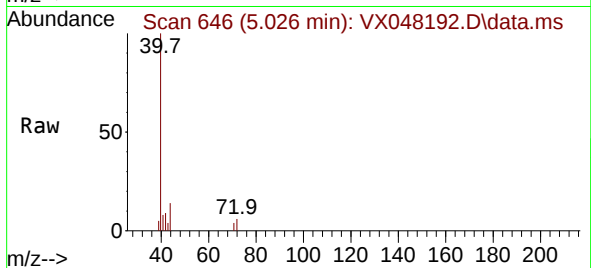
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 12435  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 6.1   | 73.4  | 110.2# |
| 121      | 0.0   | 23.8  | 35.6#  |



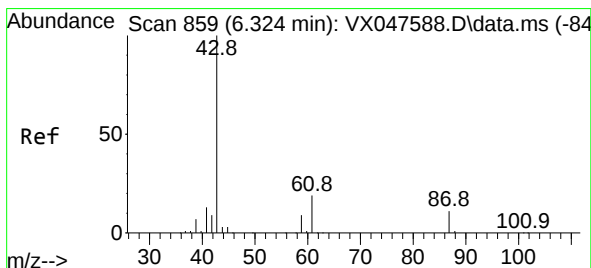
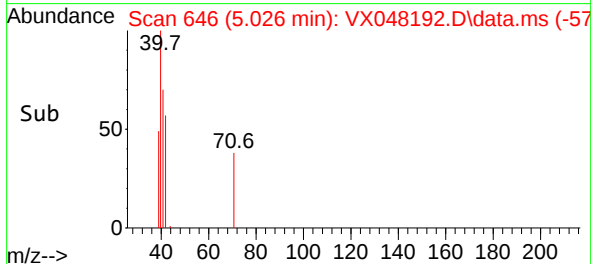
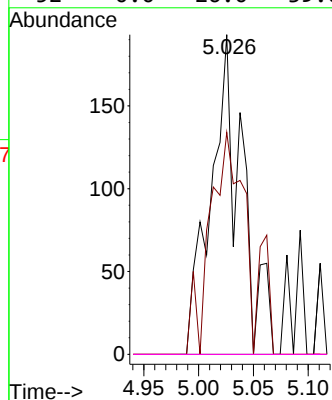


#41  
Methacrylonitrile  
Concen: 0.285 ug/l  
RT: 5.026 min Scan# 646  
Delta R.T. 0.122 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

Instrument :  
MSVOA\_X  
ClientSampleId :

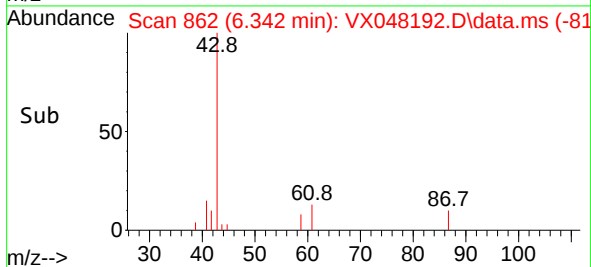
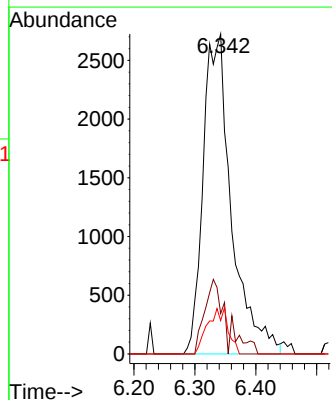
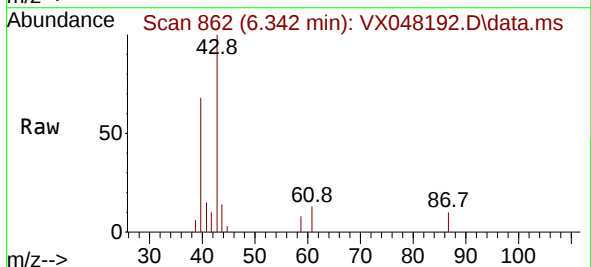


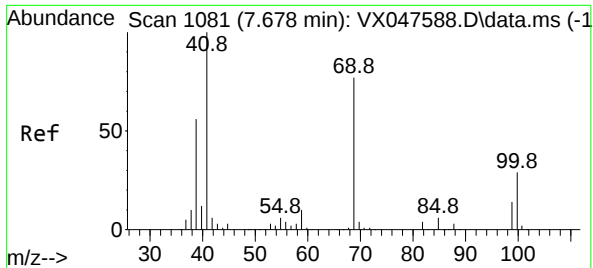
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 387   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 71.8  | 43.3  | 64.9# |
| 67       | 0.0   | 58.6  | 87.8# |
| 52       | 0.0   | 26.0  | 39.0# |



#43  
Isopropyl Acetate  
Concen: 2.037 ug/l  
RT: 6.342 min Scan# 862  
Delta R.T. 0.018 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 8787  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 14.1  | 15.2  | 22.8# |
| 87       | 10.3  | 9.6   | 14.4  |

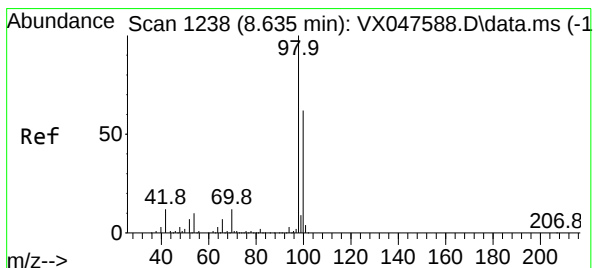
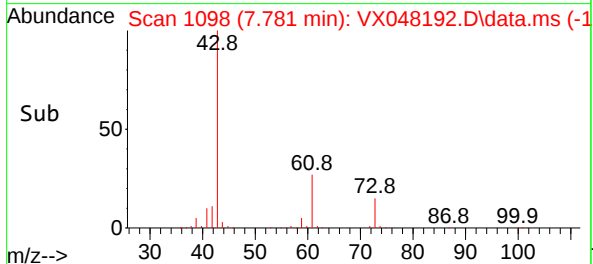
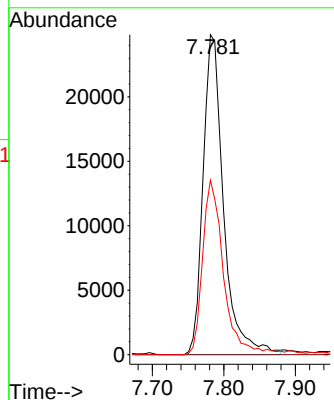
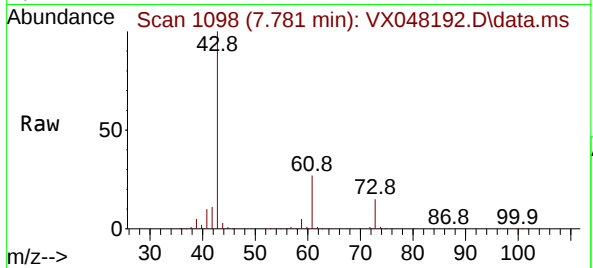




#48  
Methyl methacrylate  
Concen: 22.996 ug/l  
RT: 7.781 min Scan# 1098  
Delta R.T. 0.104 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

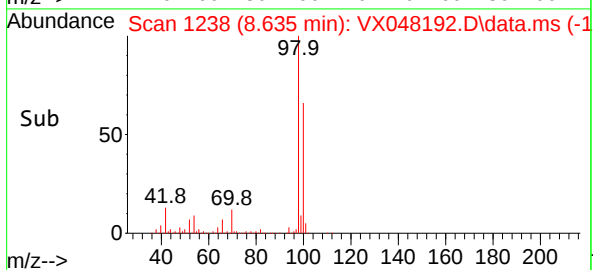
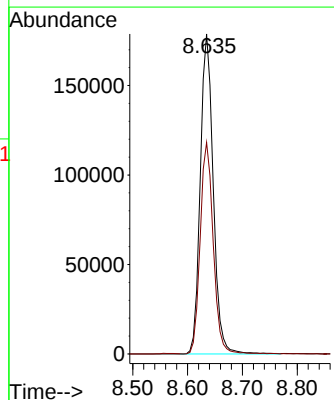
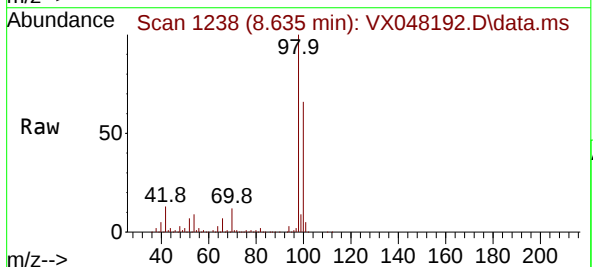
Instrument :  
MSVOA\_X  
ClientSampleId :

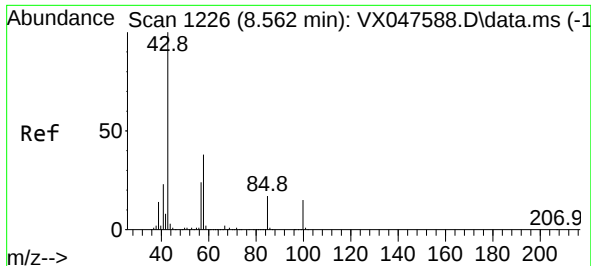
Tgt Ion: 41 Resp: 49406  
Ion Ratio Lower Upper  
41 100  
69 0.0 61.4 92.2#  
39 55.7 45.8 68.6



#50  
Toluene-d8  
Concen: 50.585 ug/l  
RT: 8.635 min Scan# 1238  
Delta R.T. 0.000 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

Tgt Ion: 98 Resp: 294220  
Ion Ratio Lower Upper  
98 100  
100 66.6 53.0 79.4

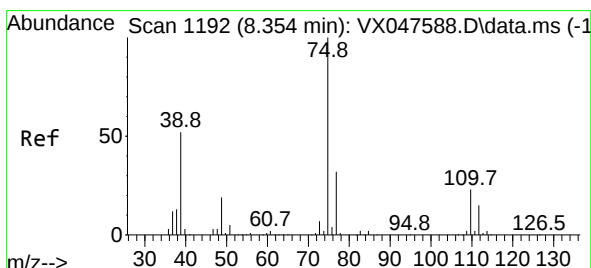
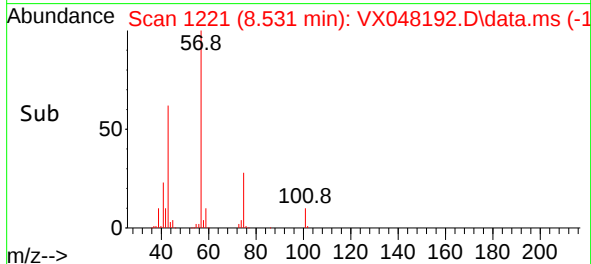
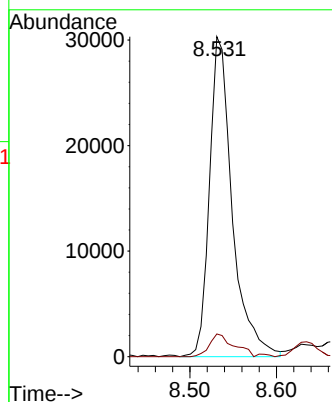
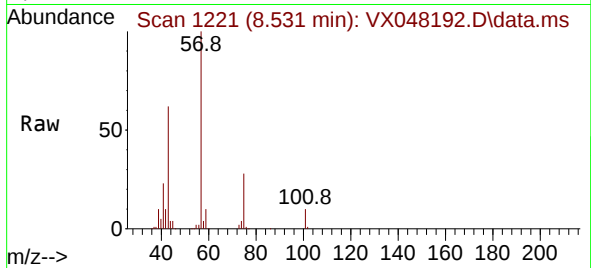




#51  
4-Methyl-2-Pentanone  
Concen: 23.125 ug/l  
RT: 8.531 min Scan# 11  
Delta R.T. -0.030 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

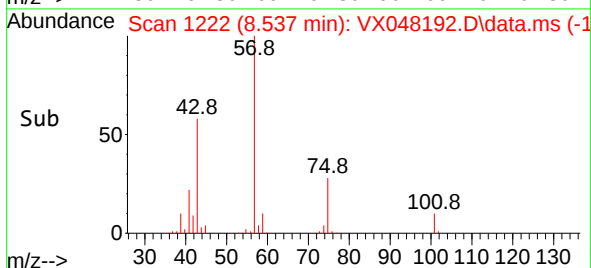
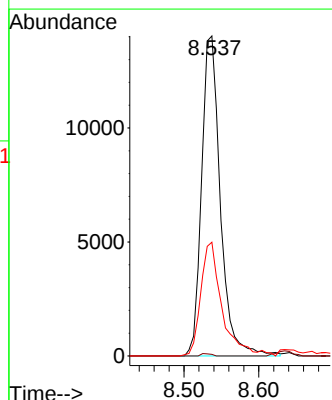
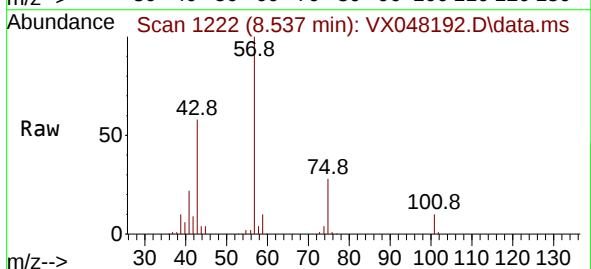
Instrument :  
MSVOA\_X  
ClientSampleId :

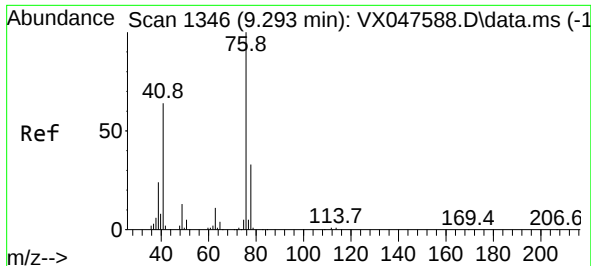
Tgt Ion: 43 Resp: 55303  
Ion Ratio Lower Upper  
43 100  
58 7.9 30.3 45.5#



#54  
cis-1,3-Dichloropropene  
Concen: 7.836 ug/l  
RT: 8.537 min Scan# 1222  
Delta R.T. 0.183 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

Tgt Ion: 75 Resp: 24505  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.8 38.6#  
39 35.5 41.4 62.2#

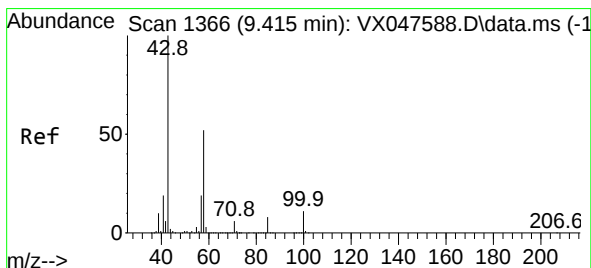
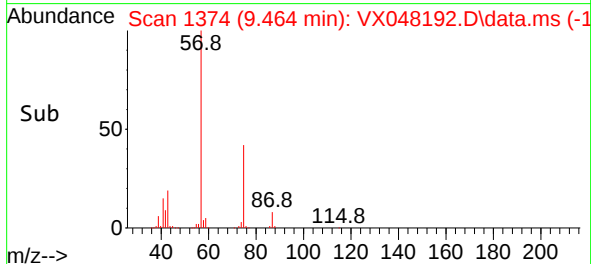
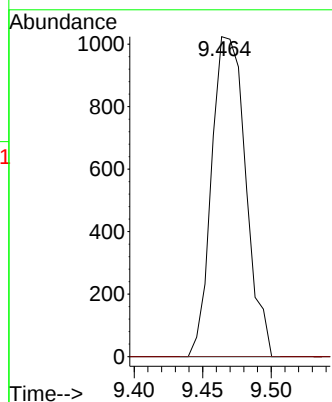
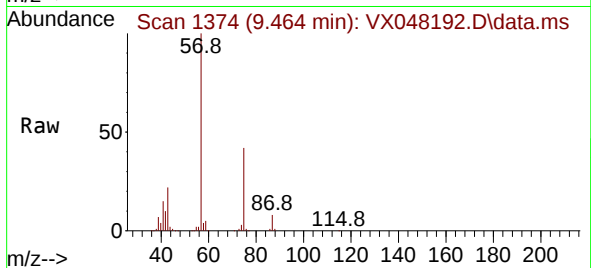




#57  
1,3-Dichloropropane  
Concen: 0.582 ug/l  
RT: 9.464 min Scan# 11  
Delta R.T. 0.171 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

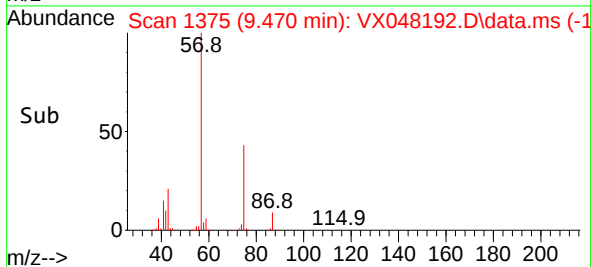
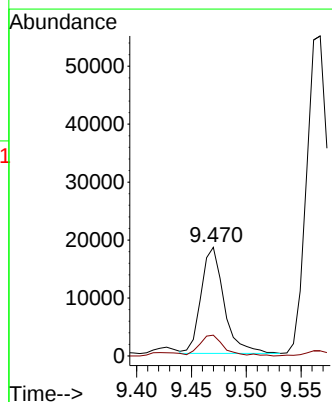
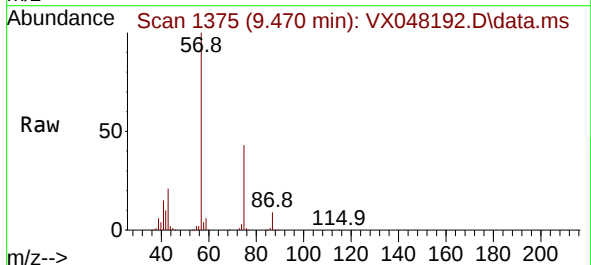
Instrument :  
MSVOA\_X  
ClientSampleId :

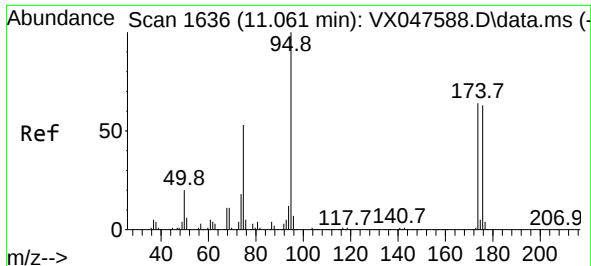
Tgt Ion: 76 Resp: 1771  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.2 39.4#



#59  
2-Hexanone  
Concen: 15.583 ug/l  
RT: 9.470 min Scan# 1375  
Delta R.T. 0.055 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

Tgt Ion: 43 Resp: 26764  
Ion Ratio Lower Upper  
43 100  
58 20.8 26.1 78.2#

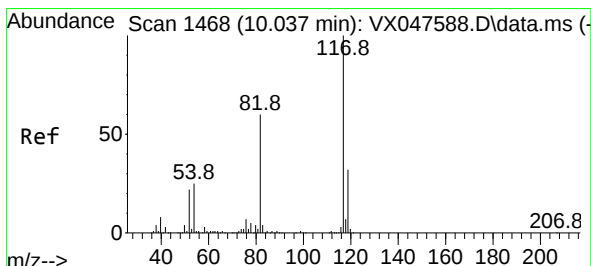
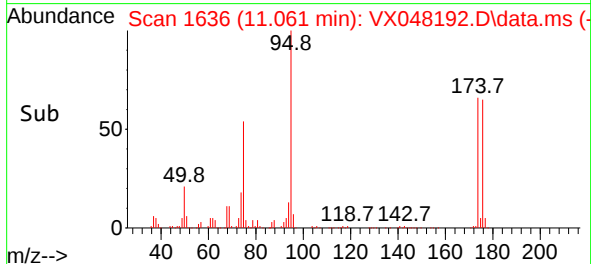
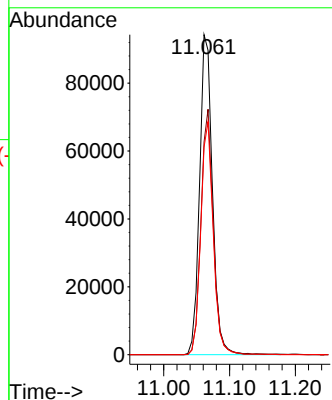
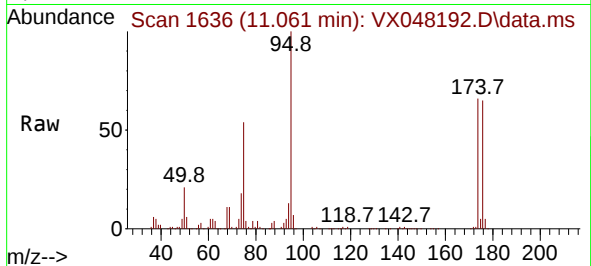




#62  
4-Bromofluorobenzene  
Concen: 57.952 ug/l  
RT: 11.061 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

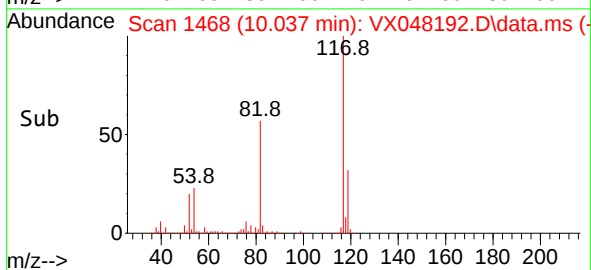
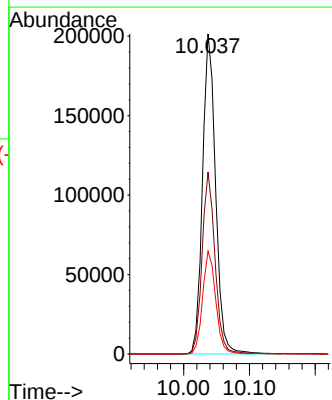
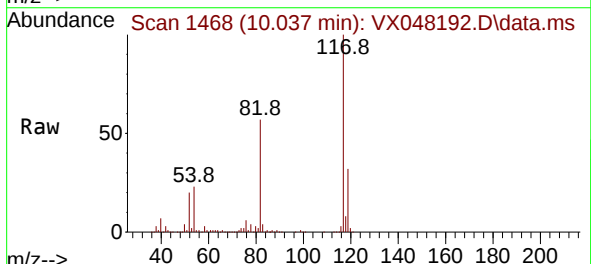
Instrument :  
MSVOA\_X  
ClientSampleId :

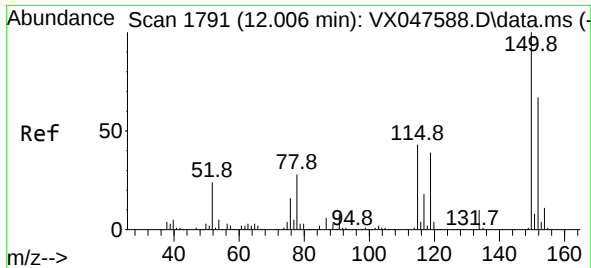
Tgt Ion: 95 Resp: 127925  
Ion Ratio Lower Upper  
95 100  
174 74.0 0.0 141.6  
176 70.9 0.0 138.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.037 min Scan# 1468  
Delta R.T. 0.000 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

Tgt Ion: 117 Resp: 278464  
Ion Ratio Lower Upper  
117 100  
82 56.8 47.8 71.6  
119 32.1 25.2 37.8

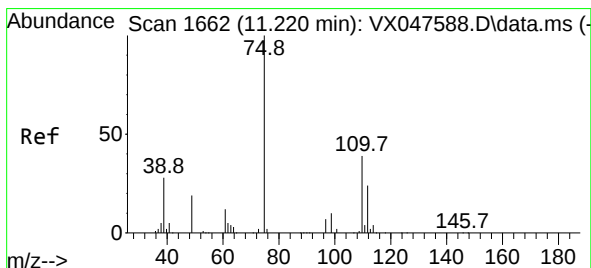
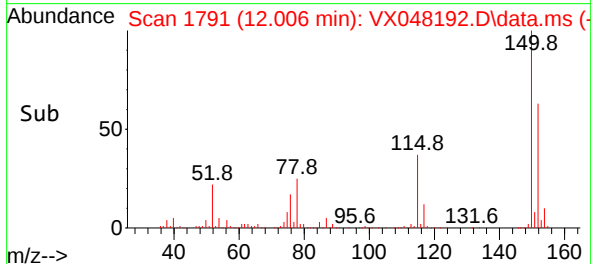
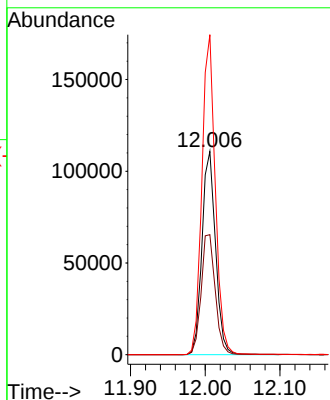
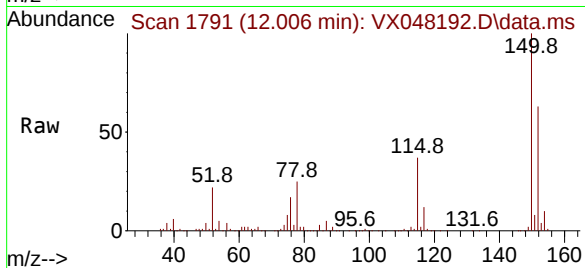




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.006 min Scan# 1  
 Delta R.T. 0.000 min  
 Lab File: VX048192.D  
 Acq: 15 Oct 2025 15:38

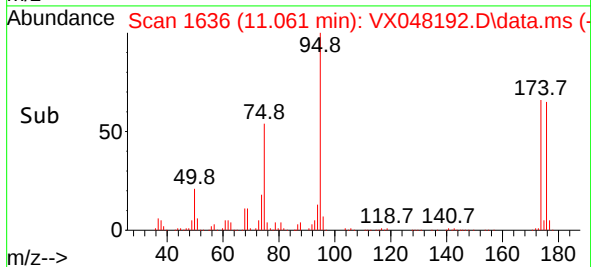
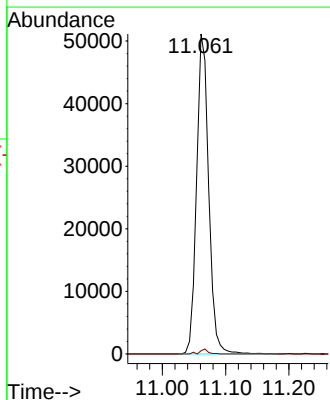
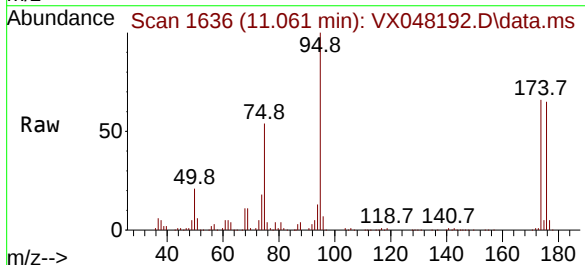
Instrument :  
 MSVOA\_X  
 ClientSampleId :

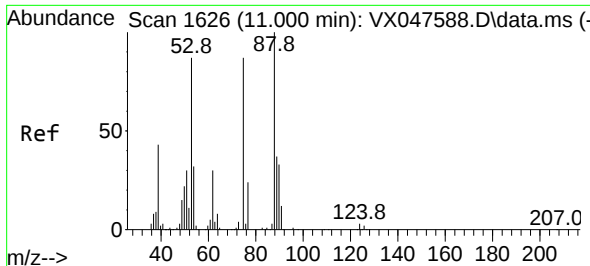
Tgt Ion:152 Resp: 139994  
 Ion Ratio Lower Upper  
 152 100  
 115 61.4 44.9 134.5  
 150 155.3 0.0 352.0



#76  
 1,2,3-Trichloropropane  
 Concen: 24.034 ug/l  
 RT: 11.061 min Scan# 1636  
 Delta R.T. -0.158 min  
 Lab File: VX048192.D  
 Acq: 15 Oct 2025 15:38

Tgt Ion: 75 Resp: 68124  
 Ion Ratio Lower Upper  
 75 100  
 77 1.0 18.8 56.4#

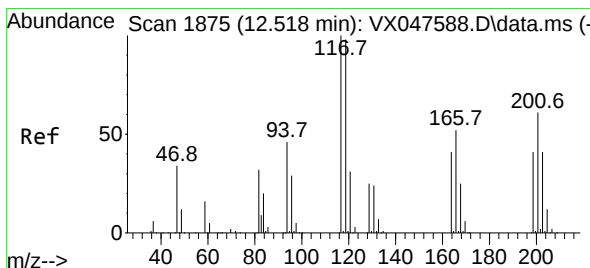
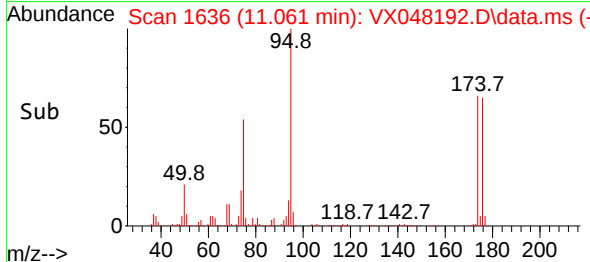
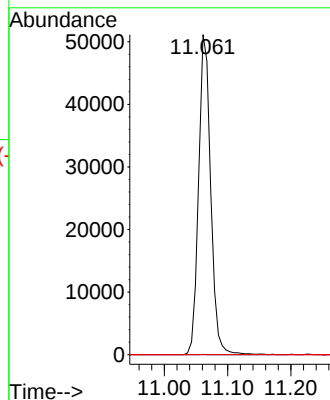
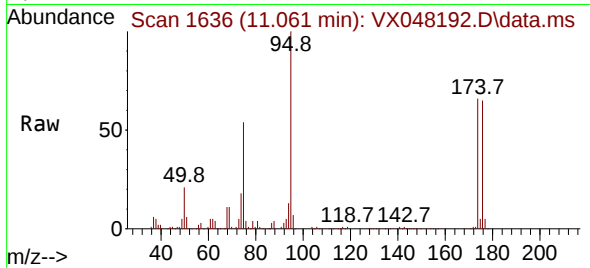




#81  
trans-1,4-Dichloro-2-butene  
Concen: 61.291 ug/l  
RT: 11.061 min Scan# 11  
Delta R.T. 0.061 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

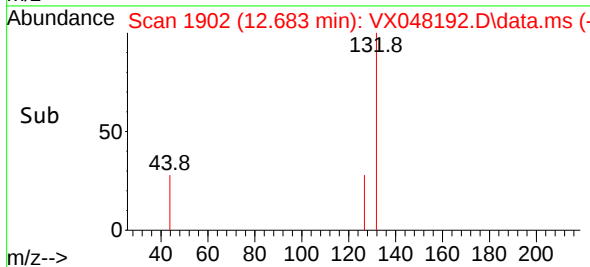
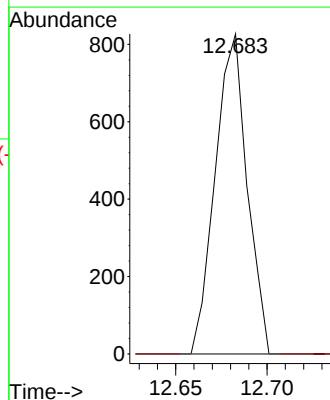
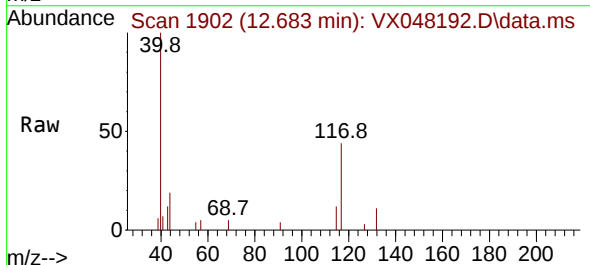
Instrument :  
MSVOA\_X  
ClientSampleId :

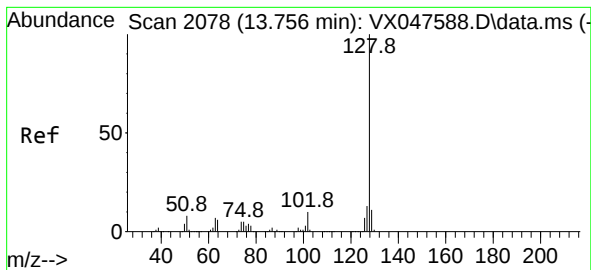
Tgt Ion: 75 Resp: 68124  
Ion Ratio Lower Upper  
75 100  
53 0.0 83.4 125.2#  
89 0.0 36.3 54.5#



#90  
Hexachloroethane  
Concen: 0.635 ug/l  
RT: 12.683 min Scan# 1902  
Delta R.T. 0.165 min  
Lab File: VX048192.D  
Acq: 15 Oct 2025 15:38

Tgt Ion: 117 Resp: 1004  
Ion Ratio Lower Upper  
117 100  
201 0.0 34.2 102.5#





#95

Naphthalene

Concen: 99.583 ug/l

RT: 13.756 min Scan# 20

Delta R.T. 0.000 min

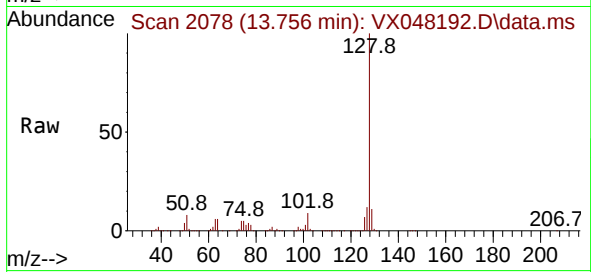
Lab File: VX048192.D

Acq: 15 Oct 2025 15:38

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion:128 Resp: 914171

Ion Ratio Lower Upper

128 100

127 12.7 10.2 15.2

129 10.8 8.8 13.2

