

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW100625\  
 Data File : VW032360.D  
 Acq On : 06 Oct 2025 15:32  
 Operator : SY/MD  
 Sample : Q3289-03  
 Misc : 4.68g/5mL/MSVOA\_W/SOIL/A  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :

Quant Time: Oct 07 03:47:36 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W100125S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 02 21:24:16 2025  
 Response via : Initial Calibration

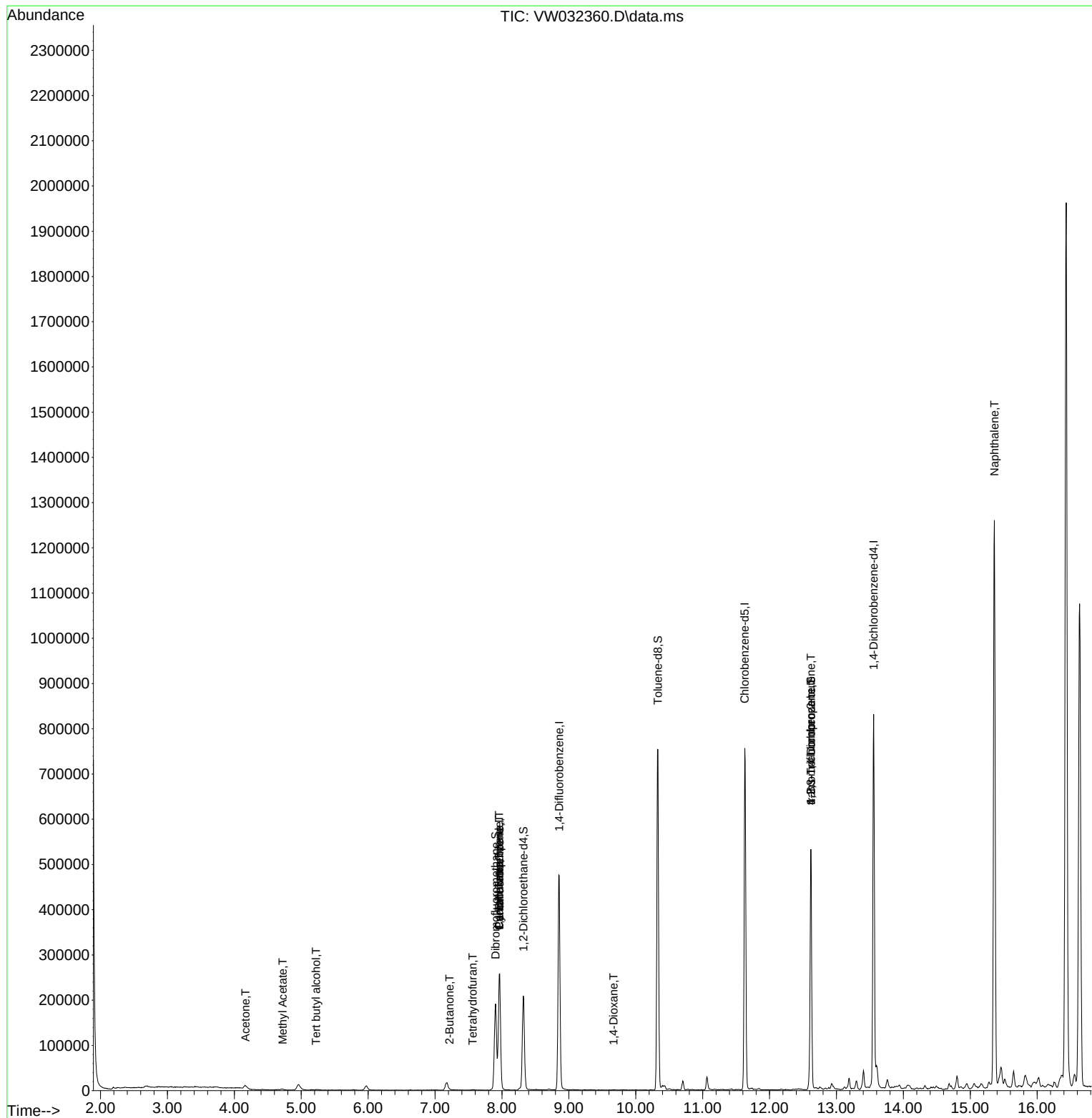
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 7.965  | 168            | 178194   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.856  | 114            | 392275   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.629 | 117            | 404257   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.556 | 152            | 213244   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.319  | 65             | 170519   | 65.608     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 63 - 155 | Recovery | = 131.220% |        |          |
| 35) Dibromofluoromethane      | 7.904  | 113            | 143535   | 56.501     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 70 - 134 | Recovery | = 113.000% |        |          |
| 50) Toluene-d8                | 10.331 | 98             | 505222   | 53.884     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 123 | Recovery | = 107.760% |        |          |
| 62) 4-Bromofluorobenzene      | 12.617 | 95             | 184257   | 51.993     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 17 - 146 | Recovery | = 103.980% |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 11) Tert butyl alcohol        | 5.222  | 59             | 705      | 3.584      | ug/l # | 87       |
| 16) Acetone                   | 4.167  | 43             | 10612    | 14.746     | ug/l   | 97       |
| 18) Methyl Acetate            | 4.722  | 43             | 3808     | 1.847      | ug/l   | 98       |
| 20) Methylene Chloride        | 4.954  | 84             | 10638    | Below Cal  |        | 97       |
| 25) 2-Butanone                | 7.216  | 43             | 1262     | 1.288      | ug/l # | 72       |
| 29) Tetrahydrofuran           | 7.563  | 42             | 825      | 1.338      | ug/l # | 59       |
| 31) Cyclohexane               | 7.959  | 56             | 4725     | 1.291      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.959  | 75             | 17423    | 4.860      | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.959  | 117            | 20775    | 6.158      | ug/l # | 18       |
| 49) 1,4-Dioxane               | 9.666  | 88             | 68       | 2.884      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.617 | 75             | 94667    | 33.735     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.617 | 75             | 94667    | 85.461     | ug/l # | 5        |
| 95) Naphthalene               | 15.360 | 128            | 1063401  | 114.714    | ug/l   | 99       |
| -----                         |        |                |          |            |        |          |

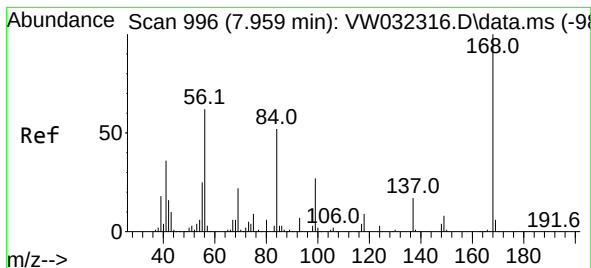
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW100625\  
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Sample : Q3289-03  
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ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_W  
ClientSampleId :

Quant Time: Oct 07 03:47:36 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W100125S.M  
Quant Title : SW846 8260  
QLast Update : Thu Oct 02 21:24:16 2025  
Response via : Initial Calibration

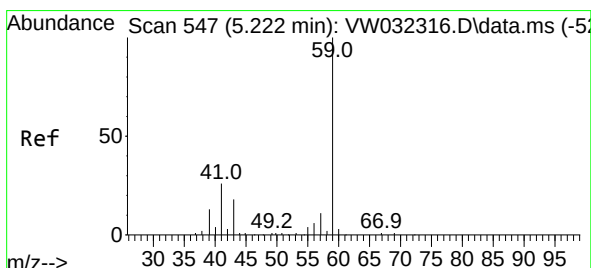
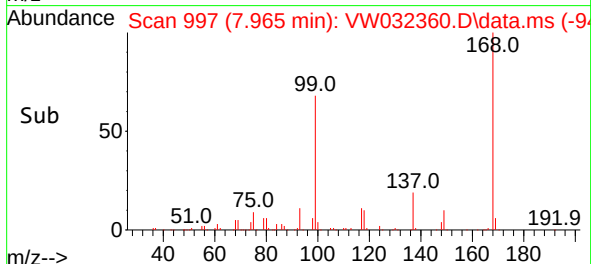
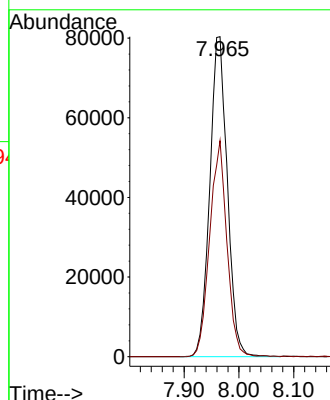
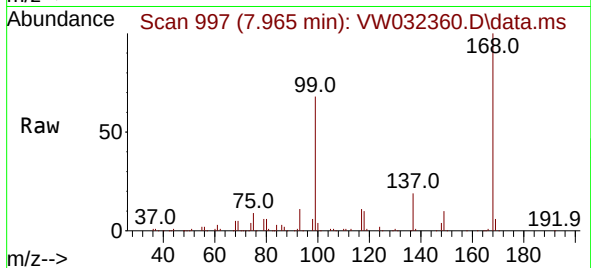




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.965 min Scan# 996  
Delta R.T. 0.000 min  
Lab File: VW032360.D  
Acq: 06 Oct 2025 15:32

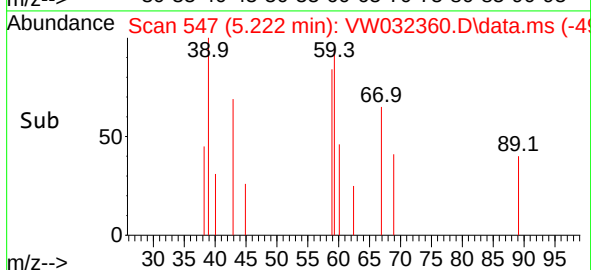
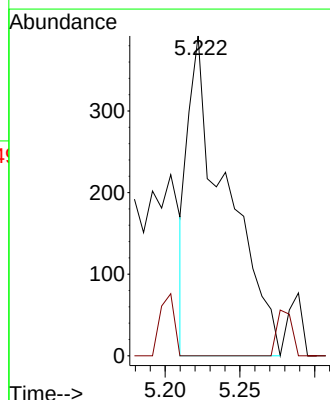
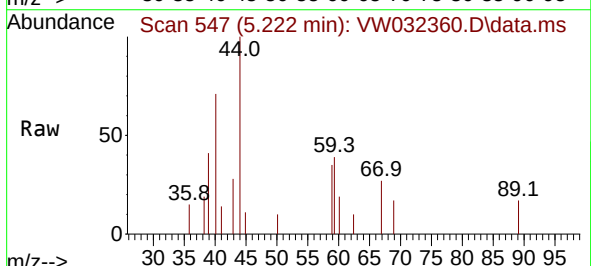
Instrument :  
MSVOA\_W  
ClientSampleId :

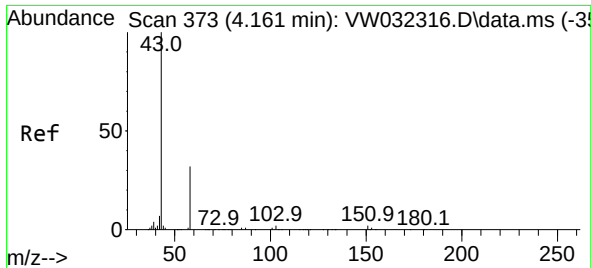
Tgt Ion:168 Resp: 178194  
Ion Ratio Lower Upper  
168 100  
99 67.5 49.3 73.9



#11  
Tert butyl alcohol  
Concen: 3.584 ug/l  
RT: 5.222 min Scan# 547  
Delta R.T. 0.000 min  
Lab File: VW032360.D  
Acq: 06 Oct 2025 15:32

Tgt Ion: 59 Resp: 705  
Ion Ratio Lower Upper  
59 100  
57 7.1 9.8 14.6#

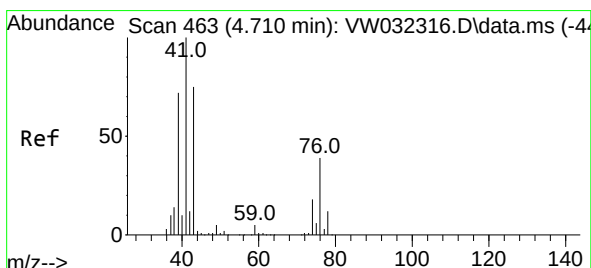
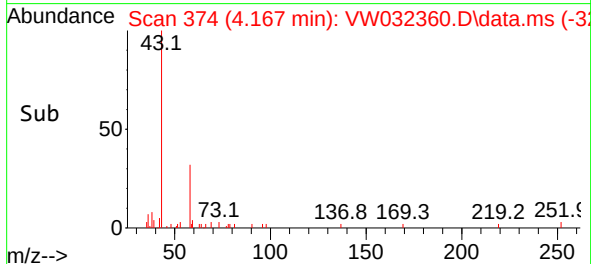
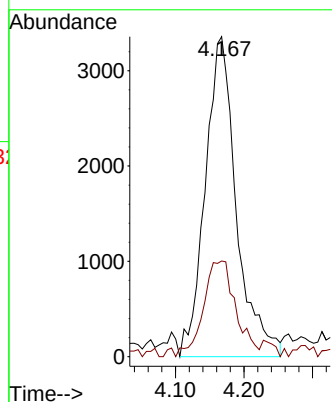
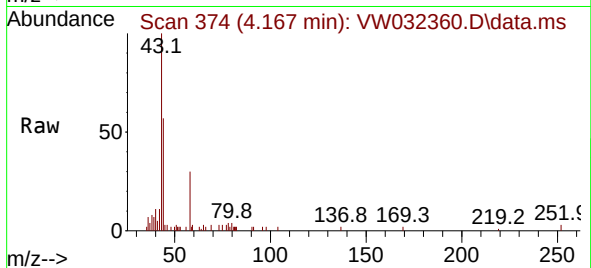




#16  
Acetone  
Concen: 14.746 ug/l  
RT: 4.167 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VW032360.D  
Acq: 06 Oct 2025 15:32

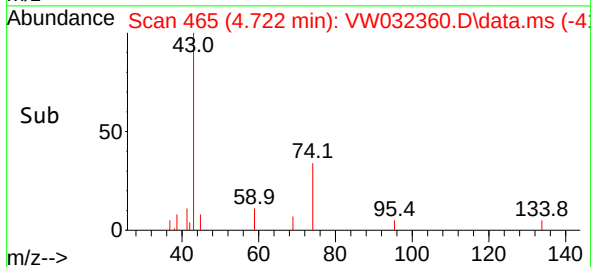
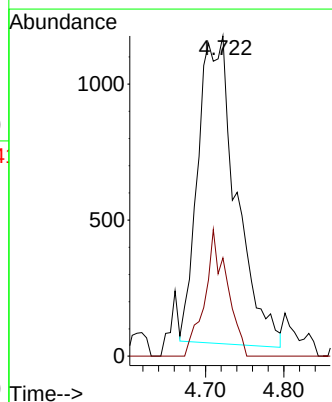
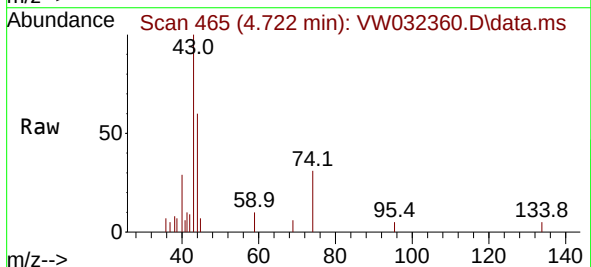
Instrument :  
MSVOA\_W  
ClientSampleId :

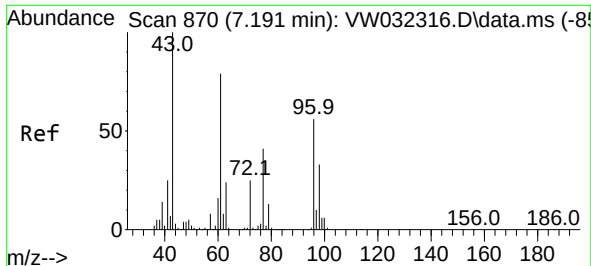
Tgt Ion: 43 Resp: 10612  
Ion Ratio Lower Upper  
43 100  
58 29.9 25.3 37.9



#18  
Methyl Acetate  
Concen: 1.847 ug/l  
RT: 4.722 min Scan# 465  
Delta R.T. 0.012 min  
Lab File: VW032360.D  
Acq: 06 Oct 2025 15:32

Tgt Ion: 43 Resp: 3808  
Ion Ratio Lower Upper  
43 100  
74 24.1 20.2 30.4

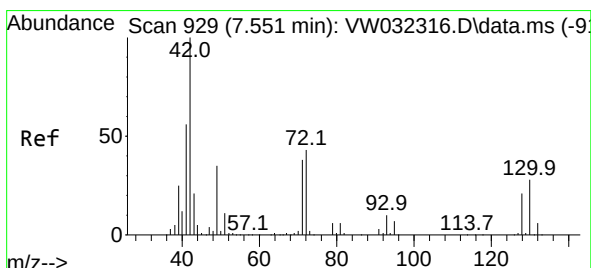
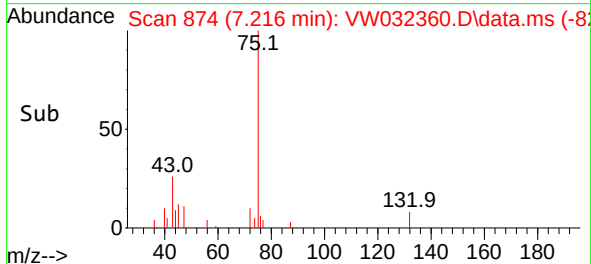
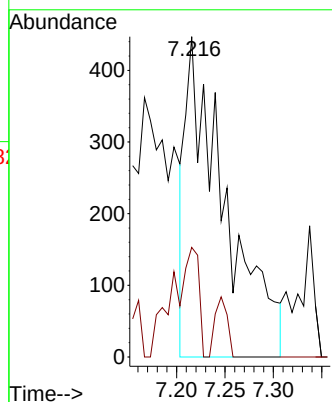
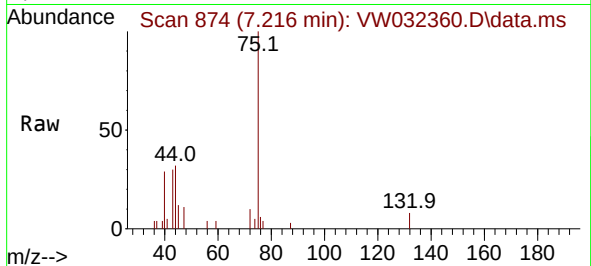




#25  
2-Butanone  
Concen: 1.288 ug/l  
RT: 7.216 min Scan# 81  
Delta R.T. 0.024 min  
Lab File: VW032360.D  
Acq: 06 Oct 2025 15:32

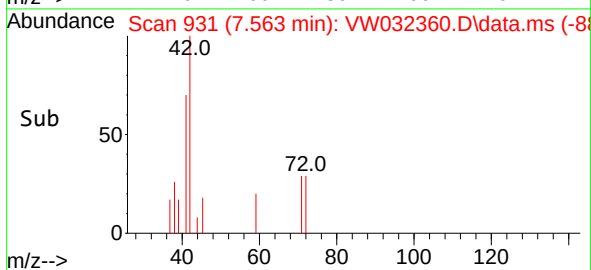
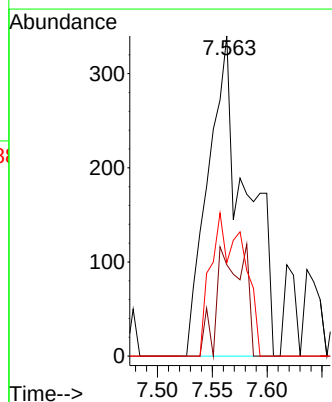
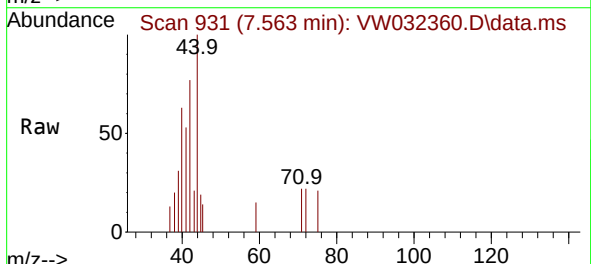
Instrument :  
MSVOA\_W  
ClientSampleId :

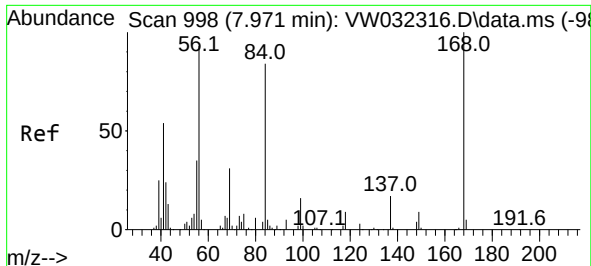
Tgt Ion: 43 Resp: 1262  
Ion Ratio Lower Upper  
43 100  
72 41.1 21.4 32.2#



#29  
Tetrahydrofuran  
Concen: 1.338 ug/l  
RT: 7.563 min Scan# 931  
Delta R.T. 0.012 min  
Lab File: VW032360.D  
Acq: 06 Oct 2025 15:32

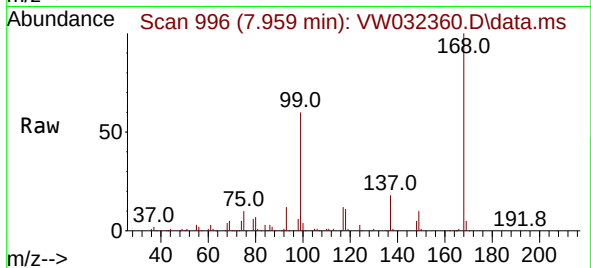
Tgt Ion: 42 Resp: 825  
Ion Ratio Lower Upper  
42 100  
72 0.0 37.4 56.2#  
71 38.1 36.0 54.0



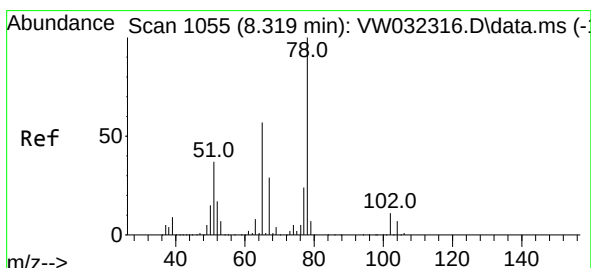
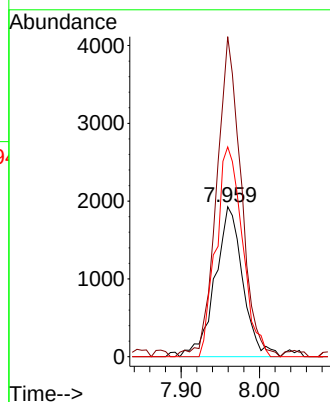
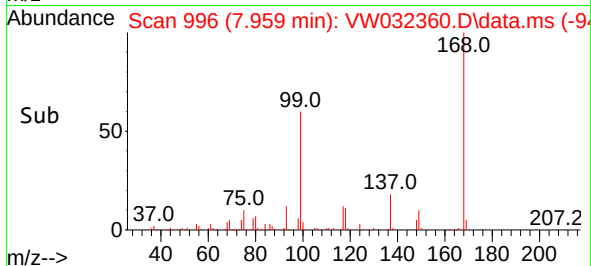


#31  
Cyclohexane  
Concen: 1.291 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.012 min  
Lab File: VW032360.D  
Acq: 06 Oct 2025 15:32

Instrument :  
MSVOA\_W  
ClientSampleId :

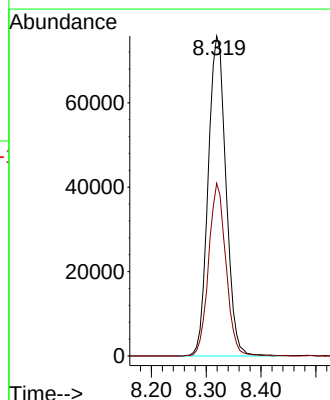
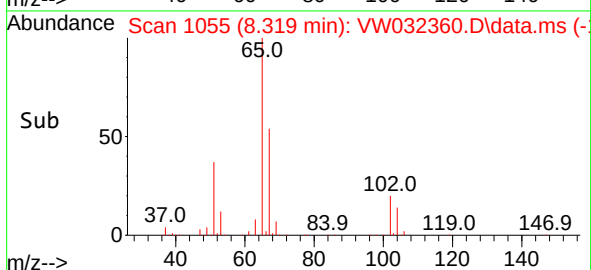
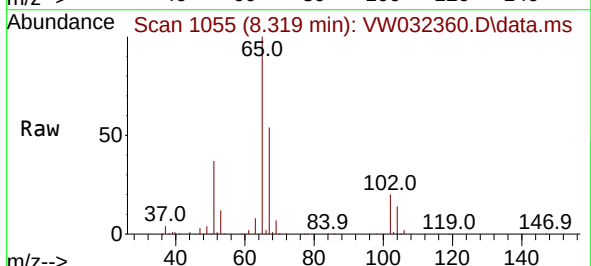


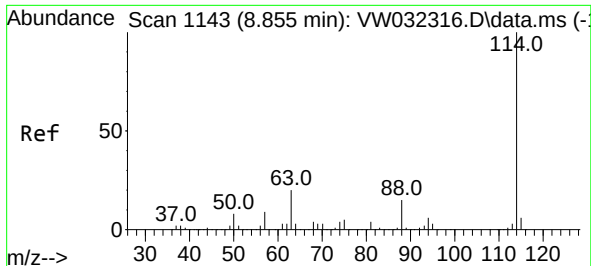
Tgt Ion: 56 Resp: 4725  
Ion Ratio Lower Upper  
56 100  
69 213.5 27.7 41.5#  
84 139.9 74.6 112.0#



#33  
1,2-Dichloroethane-d4  
Concen: 65.608 ug/l  
RT: 8.319 min Scan# 1055  
Delta R.T. 0.000 min  
Lab File: VW032360.D  
Acq: 06 Oct 2025 15:32

Tgt Ion: 65 Resp: 170519  
Ion Ratio Lower Upper  
65 100  
67 52.4 0.0 99.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.856 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VW032360.D

Acq: 06 Oct 2025 15:32

Instrument :

MSVOA\_W

ClientSampleId :

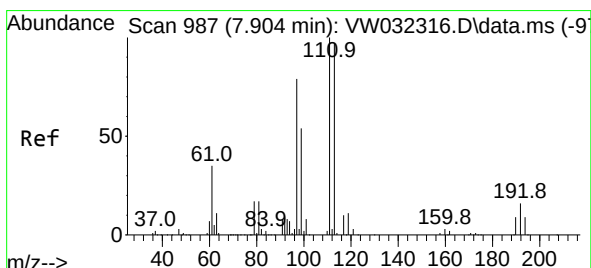
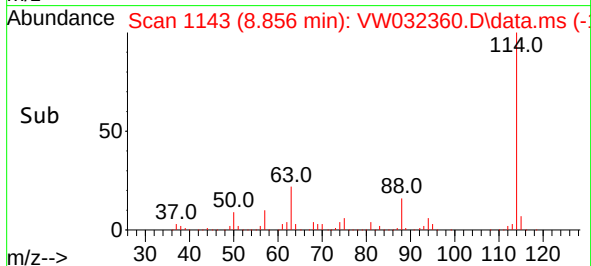
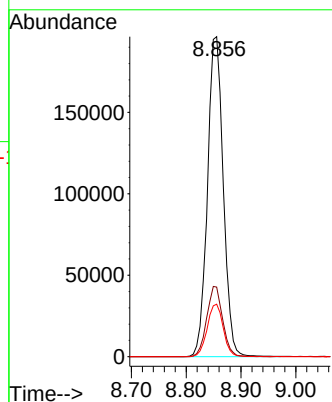
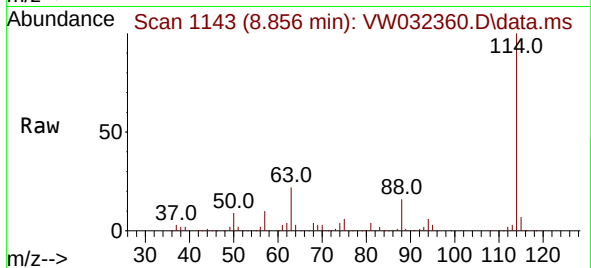
Tgt Ion:114 Resp: 392275

Ion Ratio Lower Upper

114 100

63 21.7 0.0 40.4

88 16.4 0.0 32.0



#35

Dibromofluoromethane

Concen: 56.501 ug/l

RT: 7.904 min Scan# 987

Delta R.T. 0.000 min

Lab File: VW032360.D

Acq: 06 Oct 2025 15:32

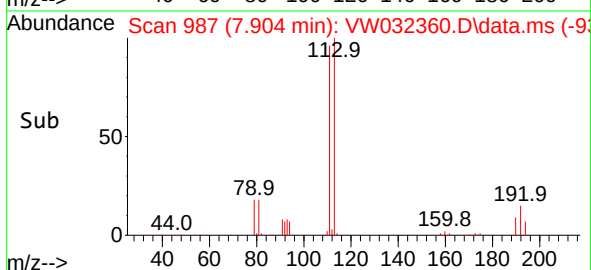
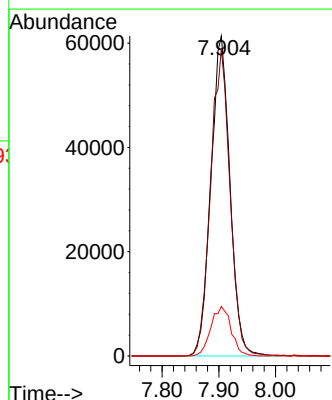
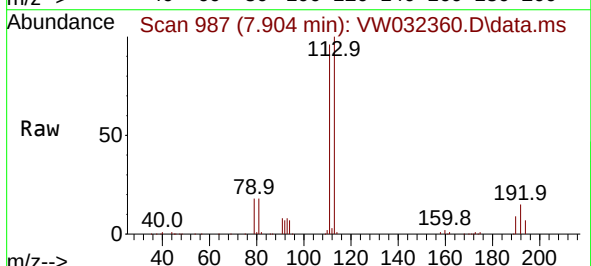
Tgt Ion:113 Resp: 143535

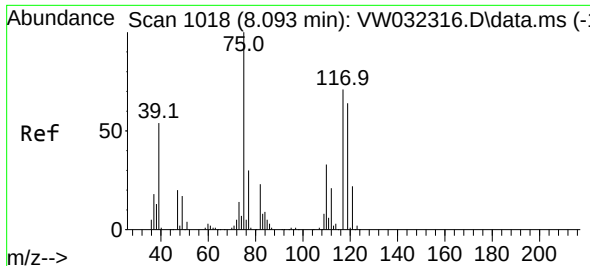
Ion Ratio Lower Upper

113 100

111 97.6 83.9 125.9

192 16.4 14.6 21.8

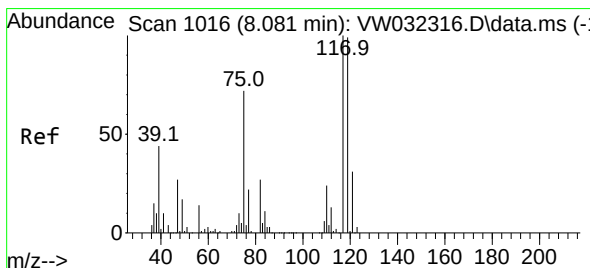
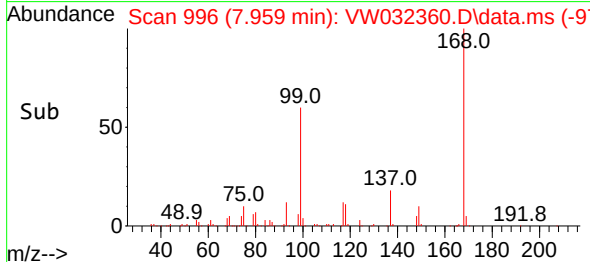
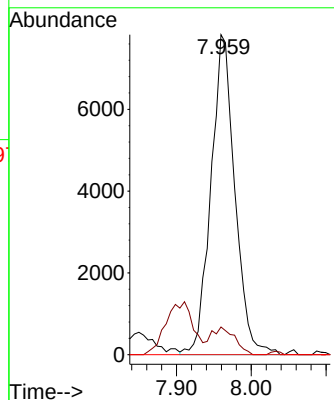
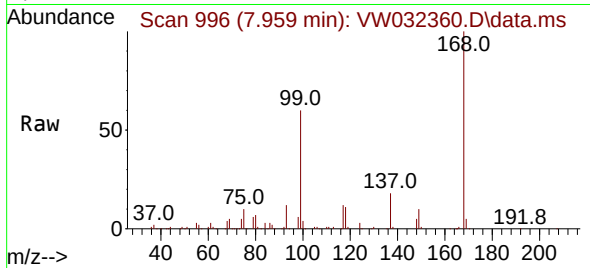




#36  
 1,1-Dichloropropene  
 Concen: 4.860 ug/l  
 RT: 7.959 min Scan# 996  
 Delta R.T. -0.140 min  
 Lab File: VW032360.D  
 Acq: 06 Oct 2025 15:32

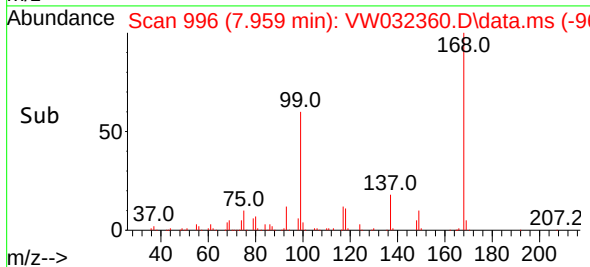
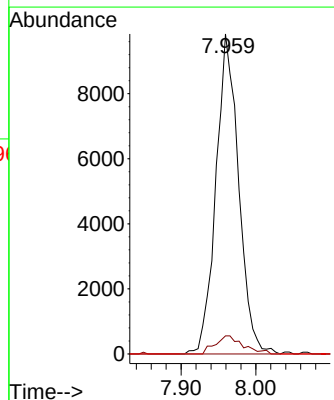
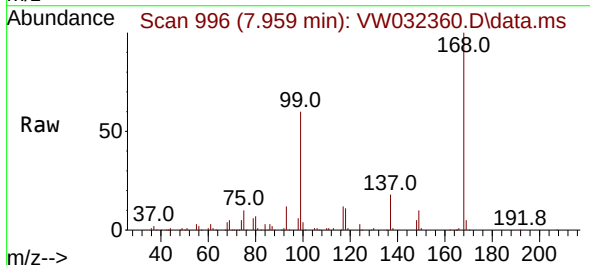
Instrument :  
 MSVOA\_W  
 ClientSampleId :

Tgt Ion: 75 Resp: 17423  
 Ion Ratio Lower Upper  
 75 100  
 110 8.6 17.5 52.5#  
 77 0.0 24.1 36.1#

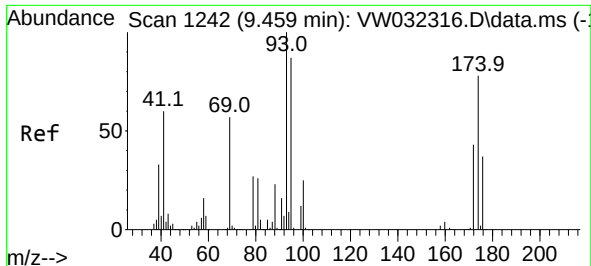


#38  
 Carbon Tetrachloride  
 Concen: 6.158 ug/l  
 RT: 7.959 min Scan# 996  
 Delta R.T. -0.128 min  
 Lab File: VW032360.D  
 Acq: 06 Oct 2025 15:32

Tgt Ion: 117 Resp: 20775  
 Ion Ratio Lower Upper  
 117 100  
 119 5.6 74.2 111.2#  
 121 0.0 25.6 38.4#







#49

1,4-Dioxane

Concen: 2.884 ug/l

RT: 9.666 min Scan# 11

Delta R.T. 0.207 min

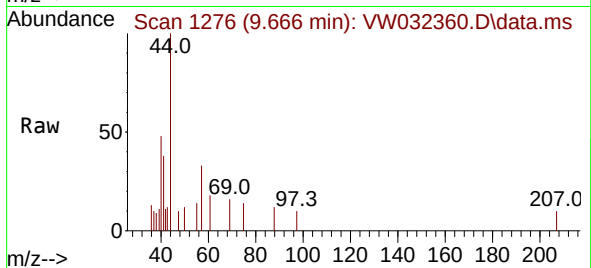
Lab File: VW032360.D

Acq: 06 Oct 2025 15:32

Instrument :

MSVOA\_W

ClientSampleId :



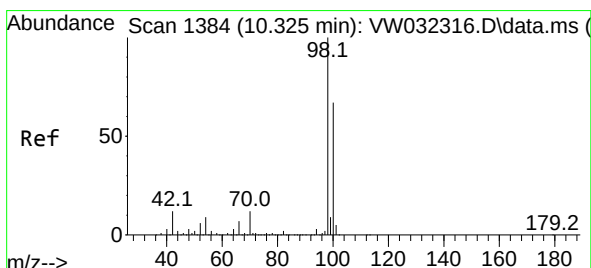
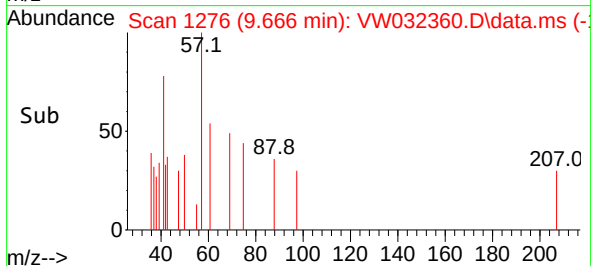
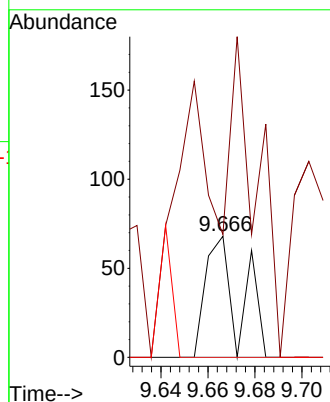
Tgt Ion: 88 Resp: 68

Ion Ratio Lower Upper

88 100

43 204.4 18.0 27.0#

58 0.0 55.4 83.0#



#50

Toluene-d8

Concen: 53.884 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW032360.D

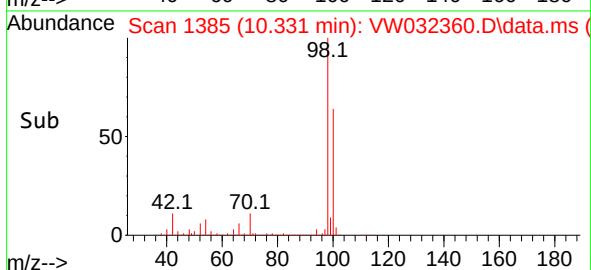
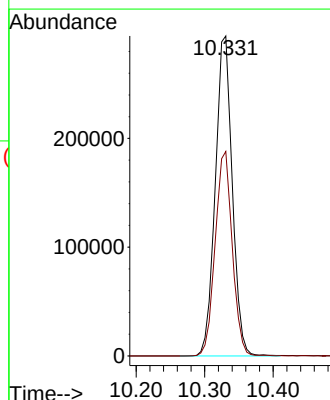
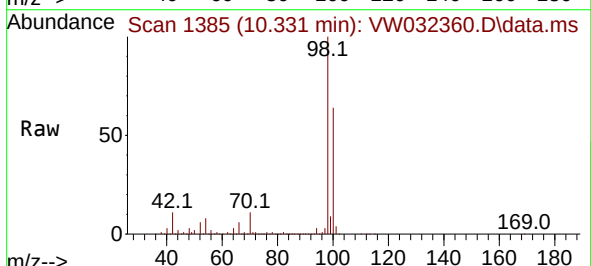
Acq: 06 Oct 2025 15:32

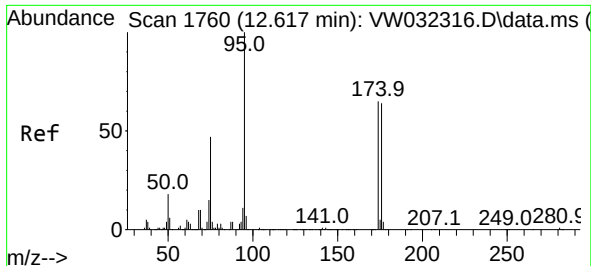
Tgt Ion: 98 Resp: 505222

Ion Ratio Lower Upper

98 100

100 64.5 51.4 77.2

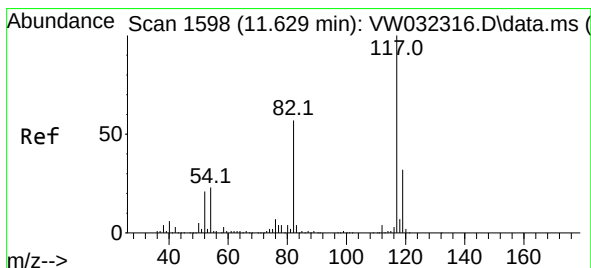
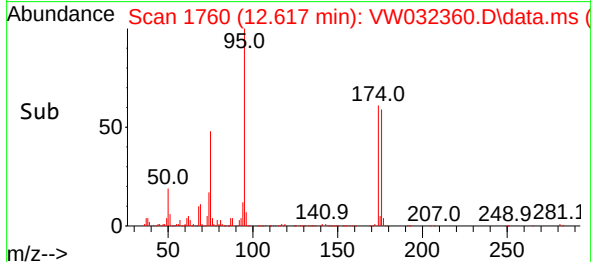
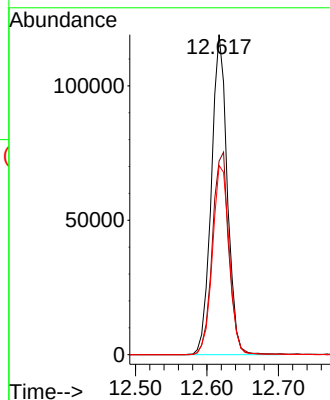
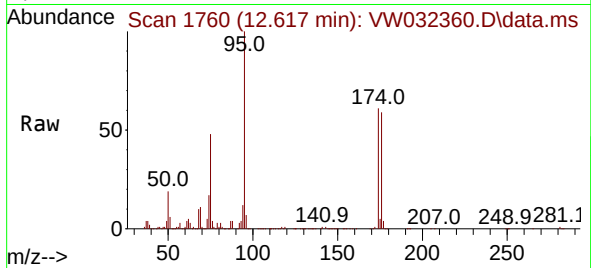




#62  
4-Bromofluorobenzene  
Concen: 51.993 ug/l  
RT: 12.617 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VW032360.D  
Acq: 06 Oct 2025 15:32

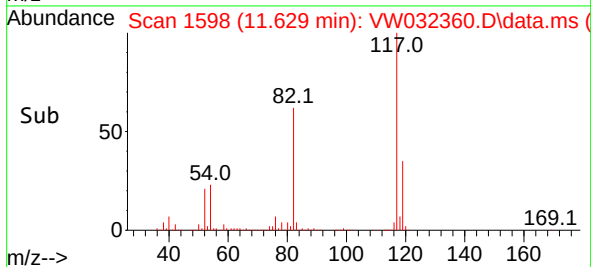
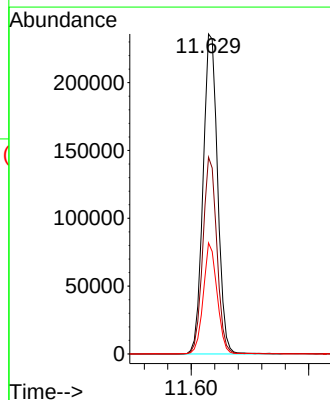
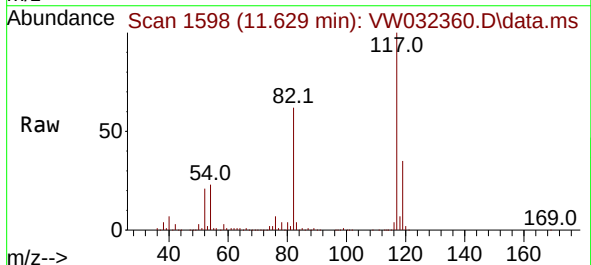
Instrument :  
MSVOA\_W  
ClientSampleId :

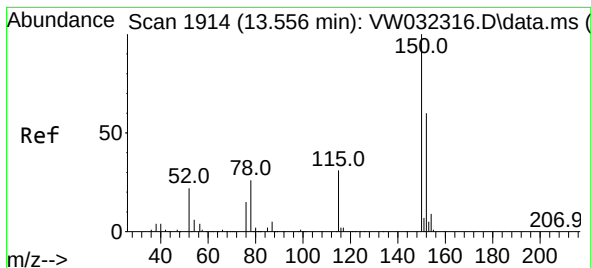
Tgt Ion: 95 Resp: 184257  
Ion Ratio Lower Upper  
95 100  
174 65.4 0.0 145.6  
176 62.5 0.0 140.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.629 min Scan# 1598  
Delta R.T. 0.000 min  
Lab File: VW032360.D  
Acq: 06 Oct 2025 15:32

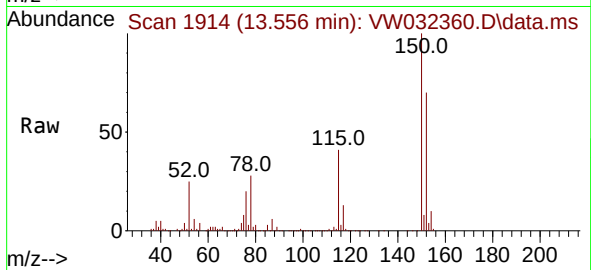
Tgt Ion: 117 Resp: 404257  
Ion Ratio Lower Upper  
117 100  
82 61.5 42.7 64.1  
119 34.6 25.2 37.8



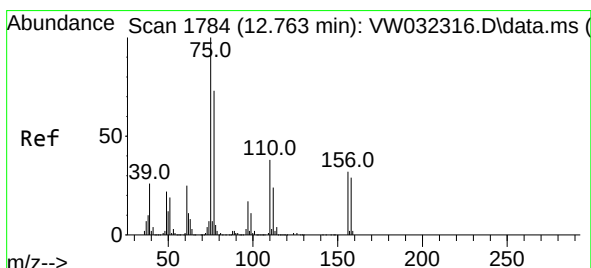
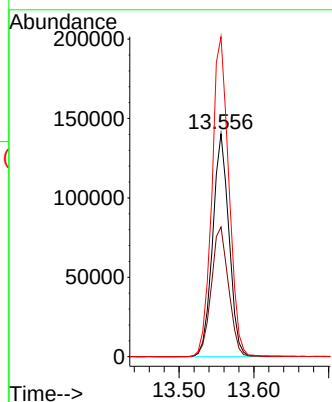
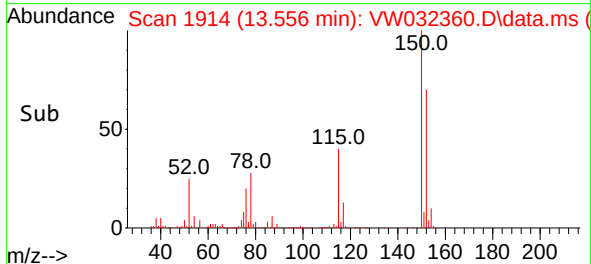


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.556 min Scan# 1914  
 Delta R.T. 0.000 min  
 Lab File: VW032360.D  
 Acq: 06 Oct 2025 15:32

Instrument :  
 MSVOA\_W  
 ClientSampleId :

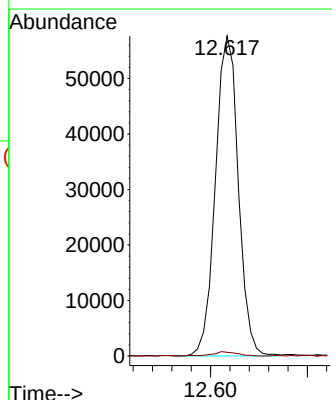
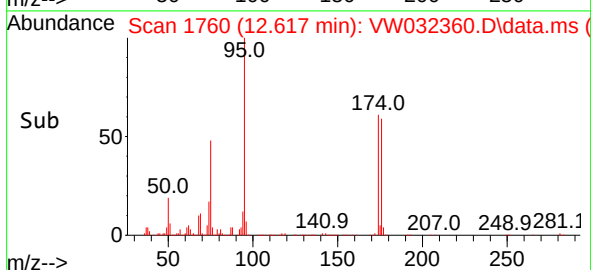
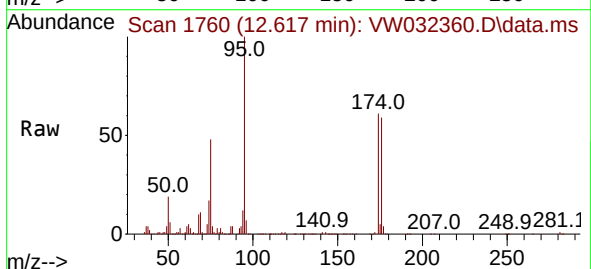


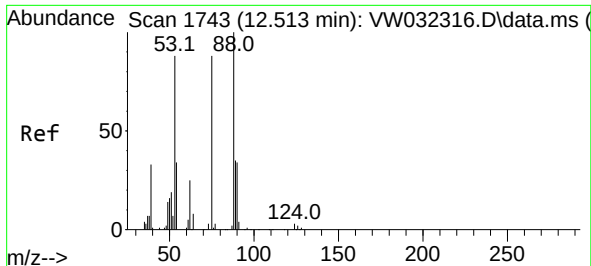
Tgt Ion:152 Resp: 213244  
 Ion Ratio Lower Upper  
 152 100  
 115 61.8 31.8 95.4  
 150 149.6 0.0 343.0



#76  
 1,2,3-Trichloropropane  
 Concen: 33.735 ug/l  
 RT: 12.617 min Scan# 1760  
 Delta R.T. -0.146 min  
 Lab File: VW032360.D  
 Acq: 06 Oct 2025 15:32

Tgt Ion: 75 Resp: 94667  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 141.7 425.1#

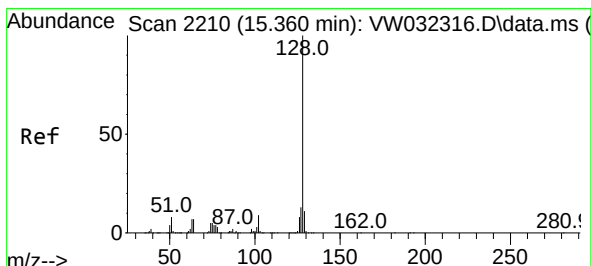
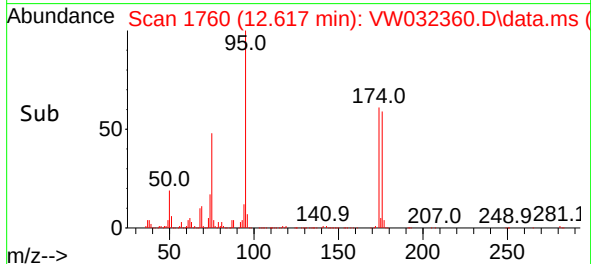
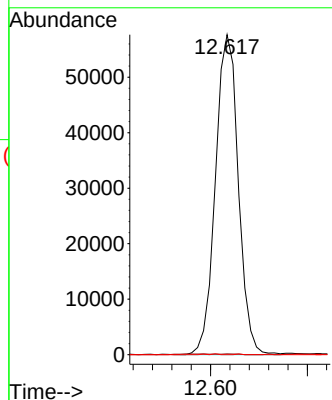
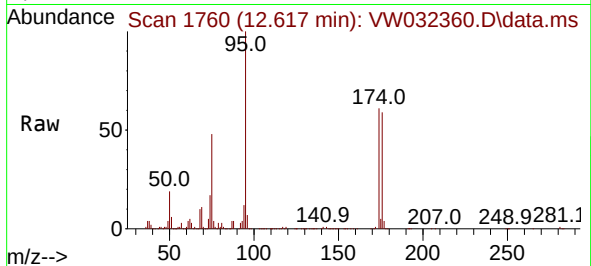




#81  
trans-1,4-Dichloro-2-butene  
Concen: 85.461 ug/l  
RT: 12.617 min Scan# 11  
Delta R.T. 0.104 min  
Lab File: VW032360.D  
Acq: 06 Oct 2025 15:32

Instrument :  
MSVOA\_W  
ClientSampleId :

Tgt Ion: 75 Resp: 94667  
Ion Ratio Lower Upper  
75 100  
53 0.1 91.0 136.6#  
89 0.0 39.4 59.2#



#95  
Naphthalene  
Concen: 114.714 ug/l  
RT: 15.360 min Scan# 2210  
Delta R.T. 0.000 min  
Lab File: VW032360.D  
Acq: 06 Oct 2025 15:32

Tgt Ion:128 Resp: 1063401  
Ion Ratio Lower Upper  
128 100  
127 12.9 10.6 16.0  
129 10.7 8.4 12.6

