

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW081425\  
 Data File : VW032101.D  
 Acq On : 14 Aug 2025 18:02  
 Operator : SY/MD  
 Sample : Q2820-18  
 Misc : 7.59g/5mL/MSVOA\_W/SOIL/A  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 88H-N

Quant Time: Aug 18 03:56:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W081125S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Aug 12 04:04:48 2025  
 Response via : Initial Calibration

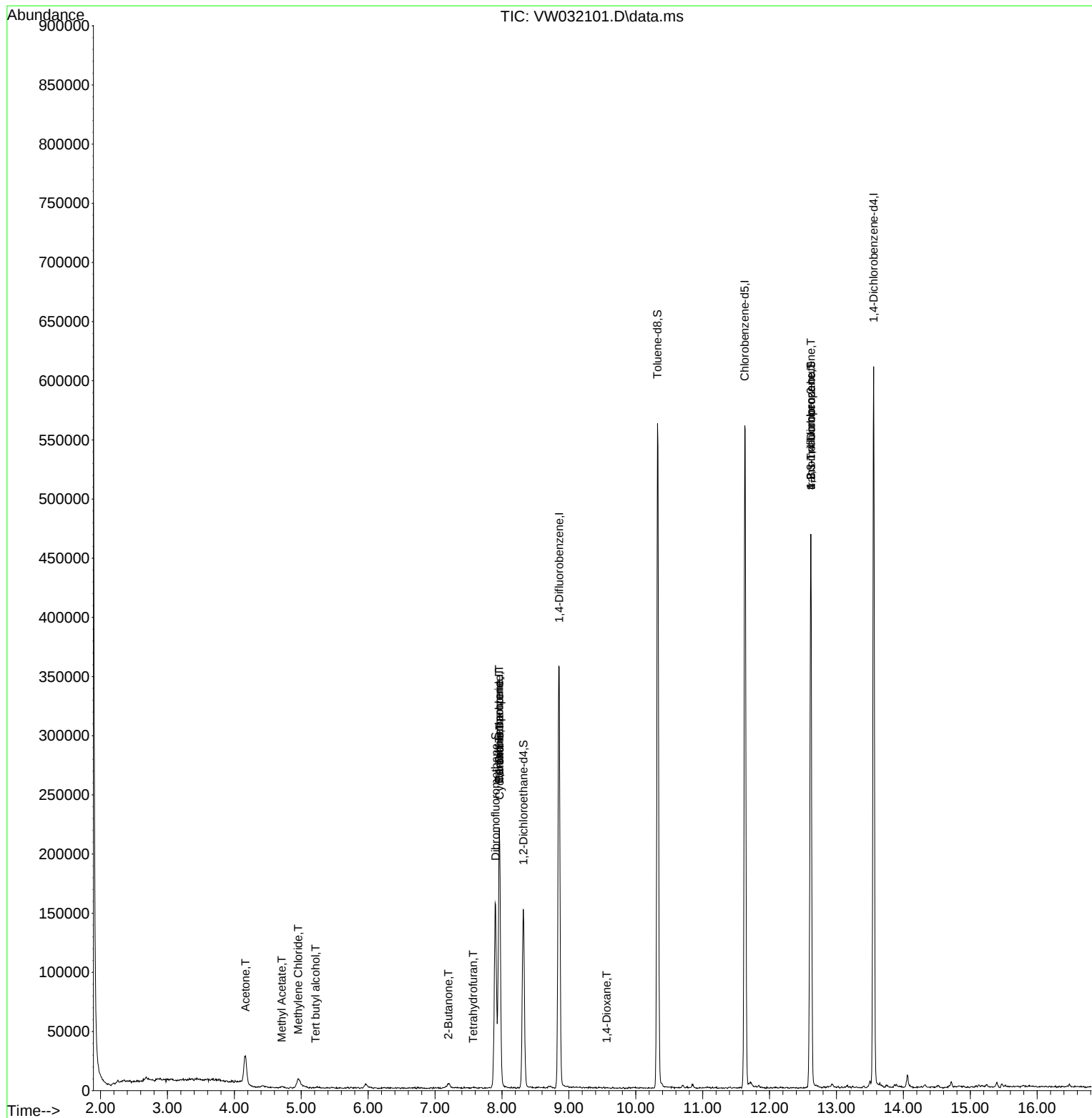
| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 7.959          | 168  | 147385              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.856          | 114  | 297090              | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.629         | 117  | 296209              | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.556         | 152  | 149072              | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.319          | 65   | 124522              | 58.417  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 63 - 155 |      | Recovery = 116.840% |         |        |          |
| 35) Dibromofluoromethane      | 7.904          | 113  | 106924              | 55.709  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 70 - 134 |      | Recovery = 111.420% |         |        |          |
| 50) Toluene-d8                | 10.325         | 98   | 358263              | 50.467  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 123 |      | Recovery = 100.940% |         |        |          |
| 62) 4-Bromofluorobenzene      | 12.617         | 95   | 138690              | 53.015  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 17 - 146 |      | Recovery = 106.020% |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         |        | Qvalue   |
| 11) Tert butyl alcohol        | 5.216          | 59   | 593                 | 4.296   | ug/l # | 93       |
| 16) Acetone                   | 4.167          | 43   | 41408               | 83.903  | ug/l   | 90       |
| 18) Methyl Acetate            | 4.710          | 43   | 2070                | 1.326   | ug/l   | 98       |
| 20) Methylene Chloride        | 4.954          | 84   | 7250                | 3.177   | ug/l   | 93       |
| 25) 2-Butanone                | 7.197          | 43   | 6117                | 8.721   | ug/l   | 93       |
| 29) Tetrahydrofuran           | 7.569          | 42   | 678                 | 1.466   | ug/l # | 82       |
| 31) Cyclohexane               | 7.965          | 56   | 4566                | 1.503   | ug/l # | 26       |
| 36) 1,1-Dichloropropene       | 7.959          | 75   | 13845               | 5.117   | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 7.959          | 117  | 16881               | 6.465   | ug/l # | 20       |
| 49) 1,4-Dioxane               | 9.563          | 88   | 50                  | 2.949   | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.617         | 75   | 79107               | 39.099  | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.617         | 75   | 79107               | 101.223 | ug/l # | 10       |
| -----                         |                |      |                     |         |        |          |

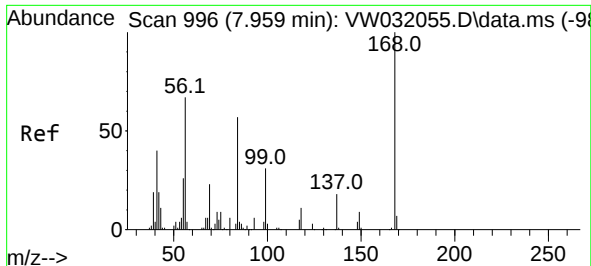
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW081425\  
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Instrument :  
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ClientSampleId :  
88H-N

Quant Time: Aug 18 03:56:31 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W081125S.M  
Quant Title : SW846 8260  
QLast Update : Tue Aug 12 04:04:48 2025  
Response via : Initial Calibration

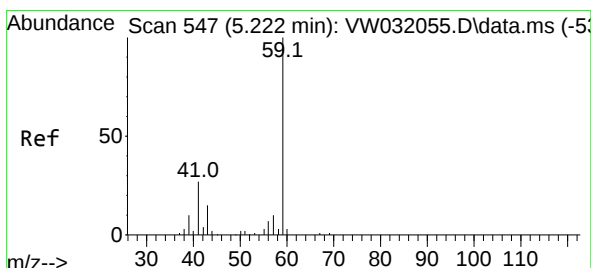
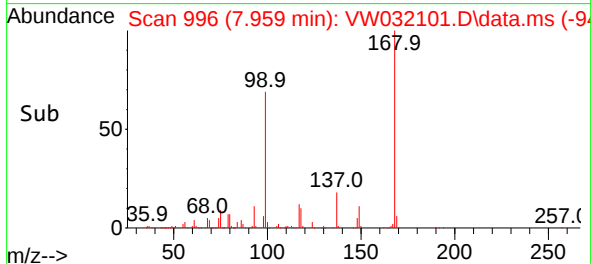
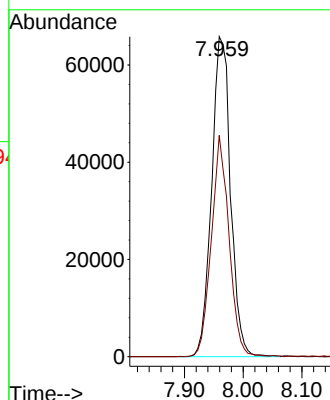
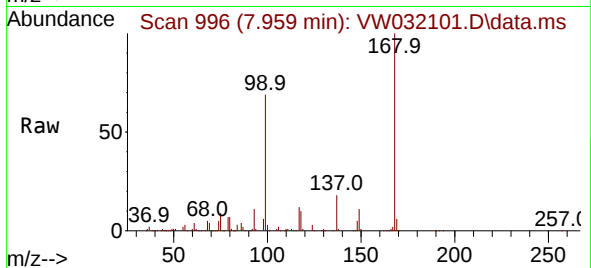




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. 0.000 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

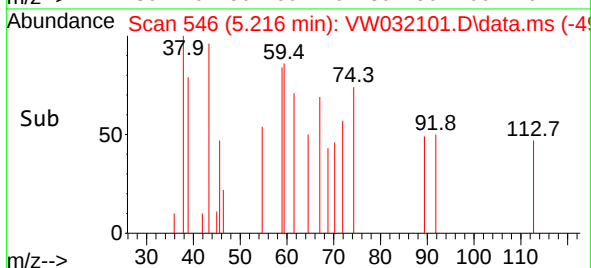
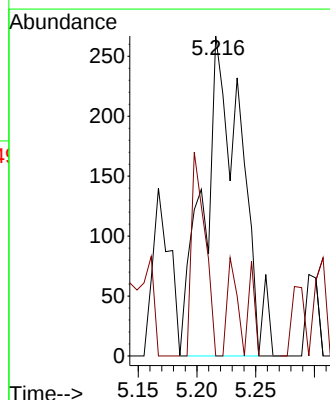
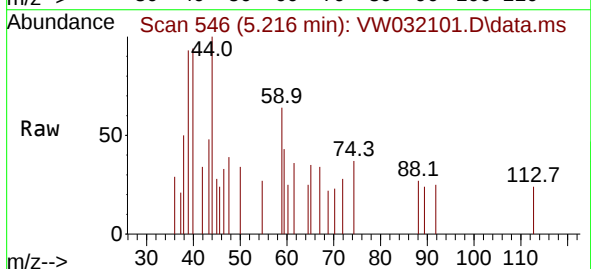
Instrument :  
MSVOA\_W  
ClientSampleId :  
88H-N

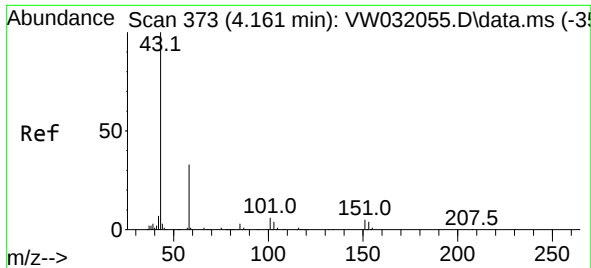
Tgt Ion:168 Resp: 147385  
Ion Ratio Lower Upper  
168 100  
99 69.1 56.0 84.0



#11  
Tert butyl alcohol  
Concen: 4.296 ug/l  
RT: 5.216 min Scan# 546  
Delta R.T. -0.006 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

Tgt Ion: 59 Resp: 593  
Ion Ratio Lower Upper  
59 100  
57 8.1 8.7 13.1#

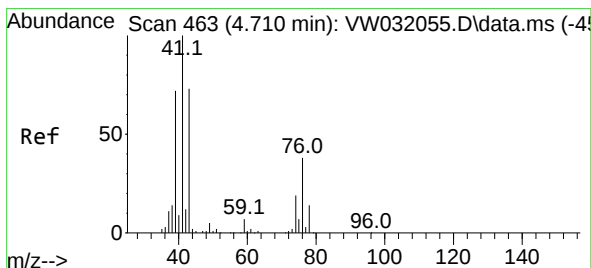
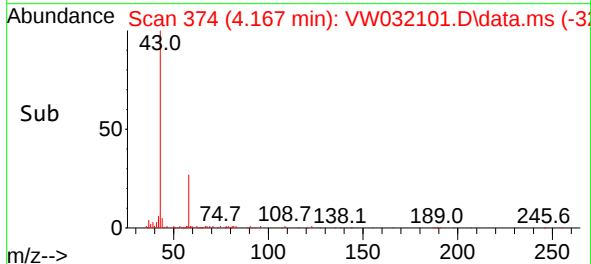
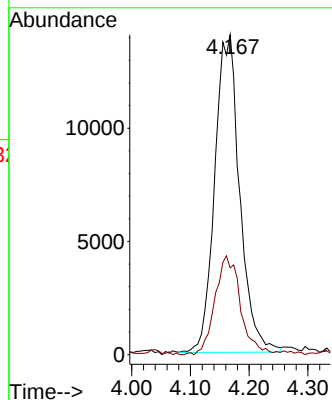
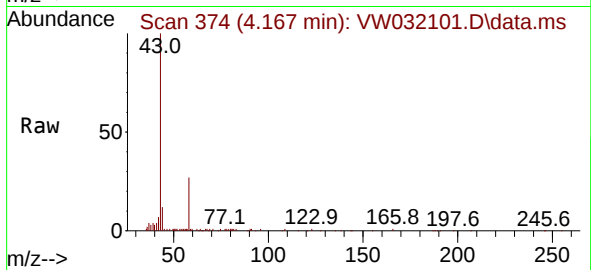




#16  
Acetone  
Concen: 83.903 ug/l  
RT: 4.167 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

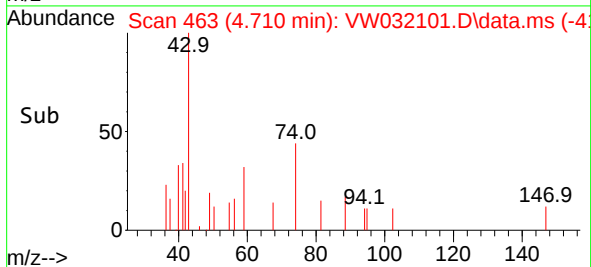
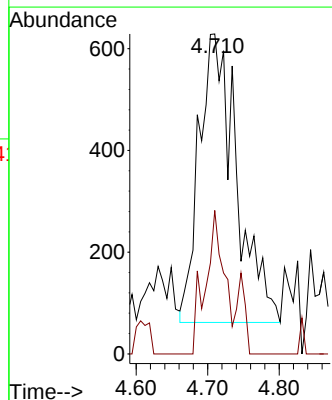
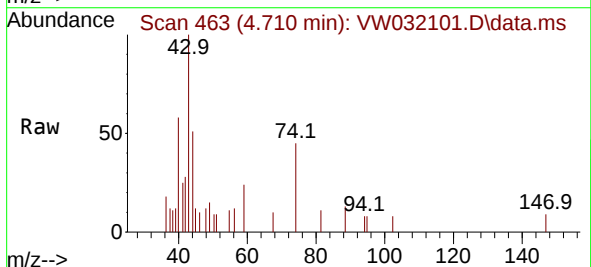
Instrument :  
MSVOA\_W  
ClientSampleId :  
88H-N

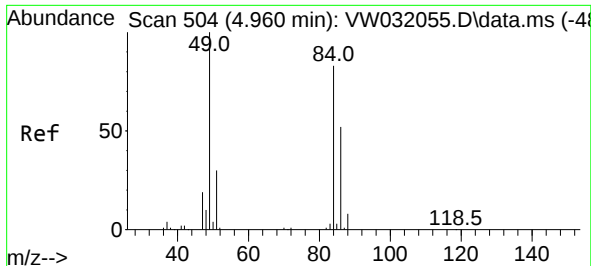
Tgt Ion: 43 Resp: 41408  
Ion Ratio Lower Upper  
43 100  
58 27.4 26.6 39.8



#18  
Methyl Acetate  
Concen: 1.326 ug/l  
RT: 4.710 min Scan# 463  
Delta R.T. 0.000 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

Tgt Ion: 43 Resp: 2070  
Ion Ratio Lower Upper  
43 100  
74 24.7 20.6 31.0

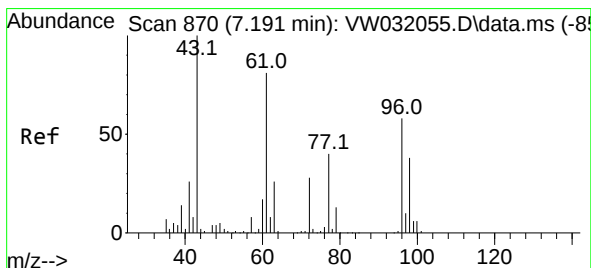
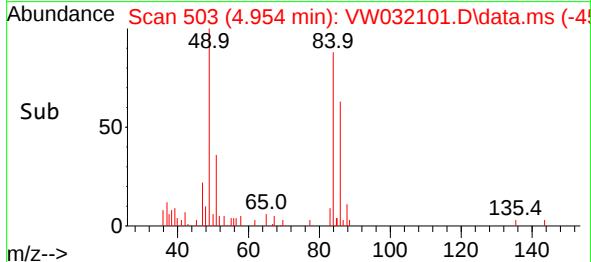
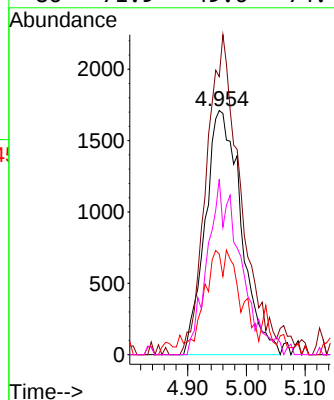
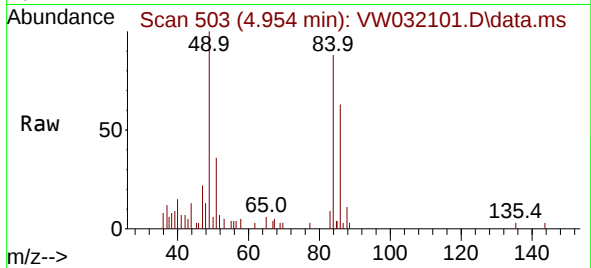




#20  
Methylene Chloride  
Concen: 3.177 ug/l  
RT: 4.954 min Scan# 504  
Delta R.T. -0.006 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

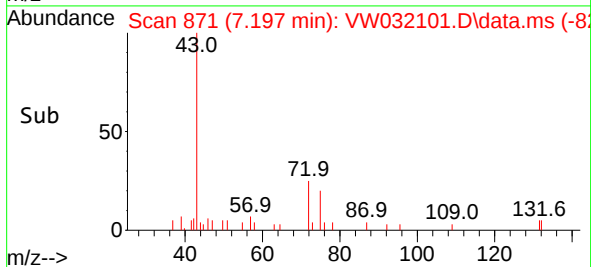
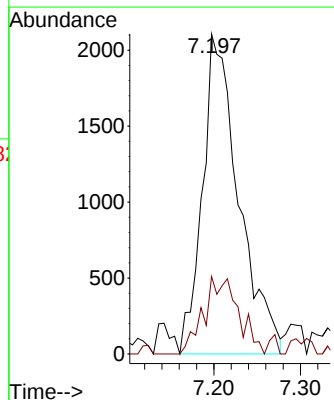
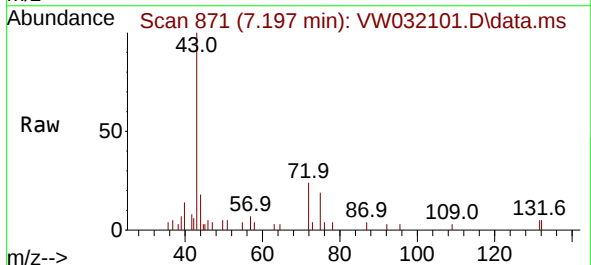
Instrument :  
MSVOA\_W  
ClientSampleId :  
88H-N

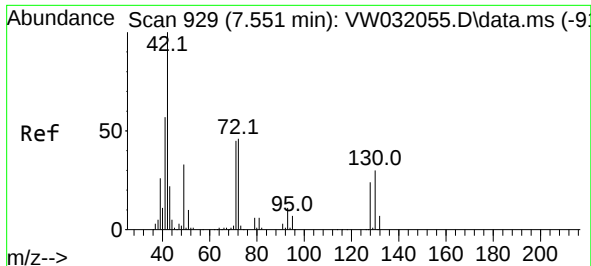
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 7250  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 113.9    | 95.9 143.9  |
| 51 33.5     | 28.6 43.0   |
| 86 71.9     | 49.6 74.4   |



#25  
2-Butanone  
Concen: 8.721 ug/l  
RT: 7.197 min Scan# 871  
Delta R.T. 0.006 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 6117  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 72 24.2     | 22.3 33.5   |





#29

Tetrahydrofuran

Concen: 1.466 ug/l

RT: 7.569 min Scan# 91

Delta R.T. 0.018 min

Lab File: VW032101.D

Acq: 14 Aug 2025 18:02

Instrument :

MSVOA\_W

ClientSampleId :

88H-N

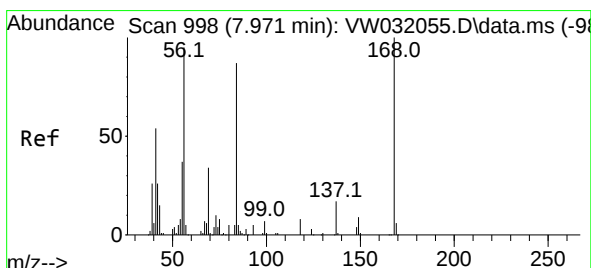
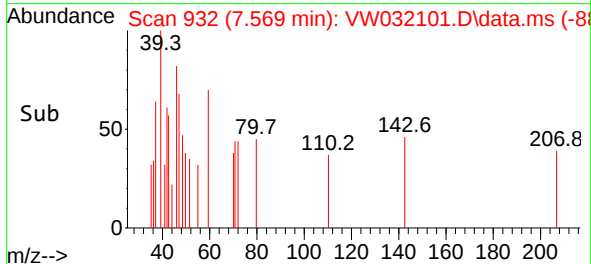
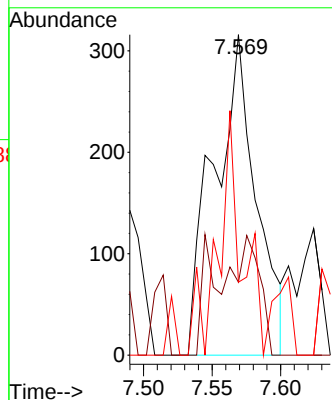
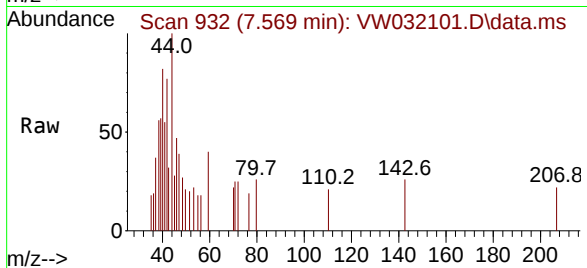
Tgt Ion: 42 Resp: 678

Ion Ratio Lower Upper

42 100

72 23.6 36.6 55.0#

71 42.6 34.7 52.1



#31

Cyclohexane

Concen: 1.503 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.006 min

Lab File: VW032101.D

Acq: 14 Aug 2025 18:02

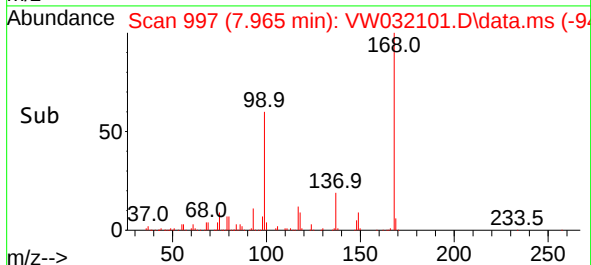
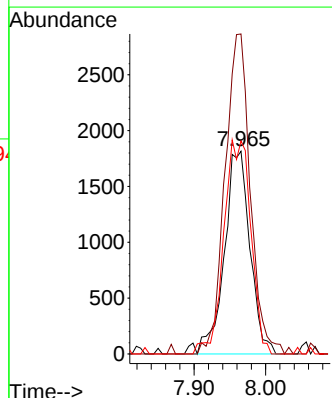
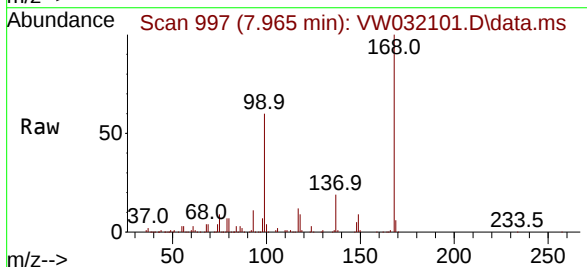
Tgt Ion: 56 Resp: 4566

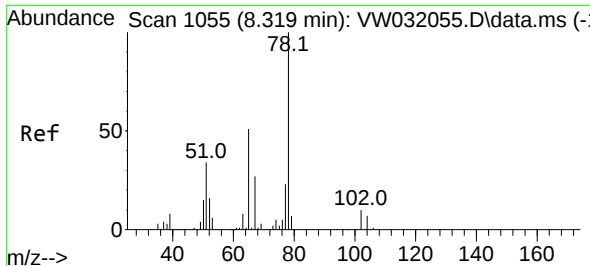
Ion Ratio Lower Upper

56 100

69 157.9 28.6 42.8#

84 111.0 73.0 109.4#

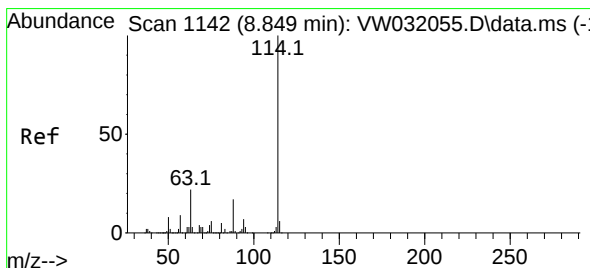
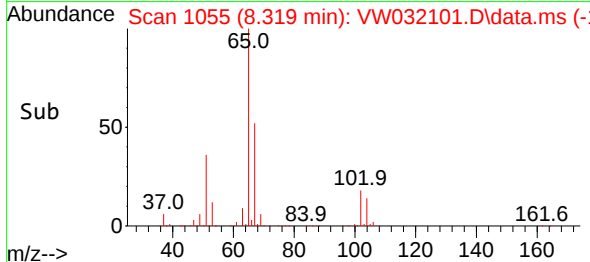
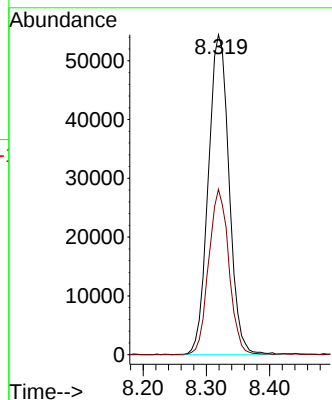
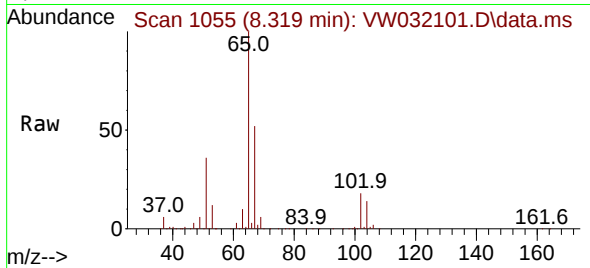




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.417 ug/l  
 RT: 8.319 min Scan# 1055  
 Delta R.T. 0.000 min  
 Lab File: VW032101.D  
 Acq: 14 Aug 2025 18:02

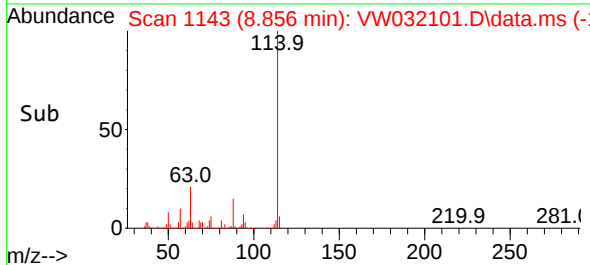
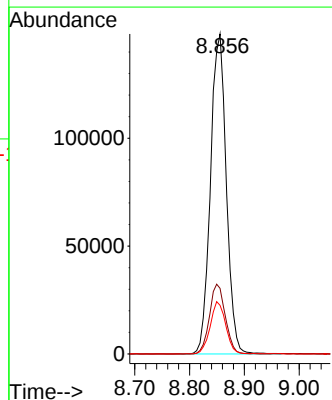
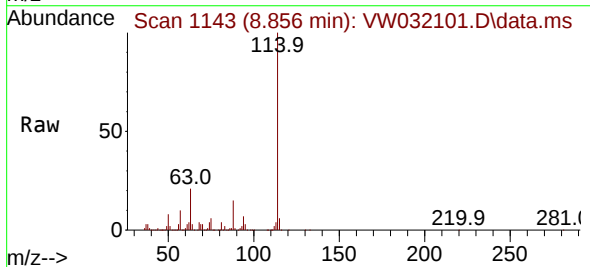
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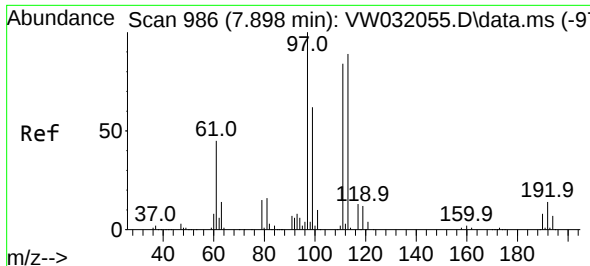
Tgt Ion: 65 Resp: 124522  
 Ion Ratio Lower Upper  
 65 100  
 67 50.3 0.0 102.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.856 min Scan# 1143  
 Delta R.T. 0.006 min  
 Lab File: VW032101.D  
 Acq: 14 Aug 2025 18:02

Tgt Ion: 114 Resp: 297090  
 Ion Ratio Lower Upper  
 114 100  
 63 20.5 0.0 43.0  
 88 15.2 0.0 33.8

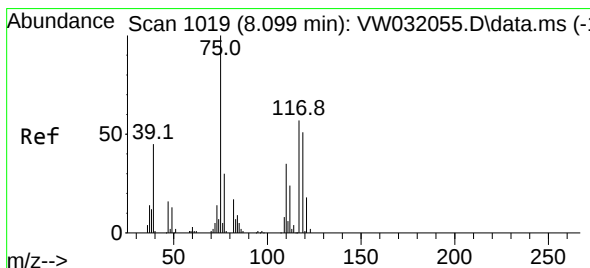
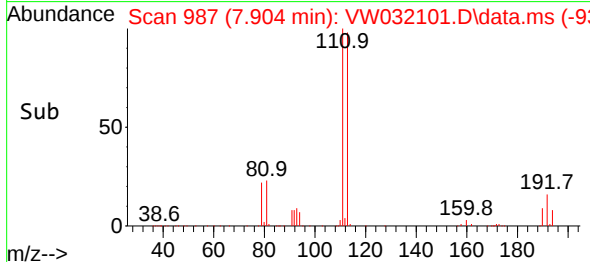
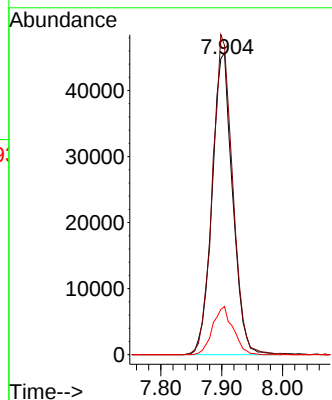
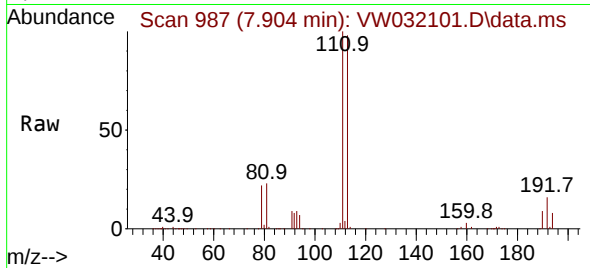




#35  
 Dibromofluoromethane  
 Concen: 55.709 ug/l  
 RT: 7.904 min Scan# 91  
 Delta R.T. 0.006 min  
 Lab File: VW032101.D  
 Acq: 14 Aug 2025 18:02

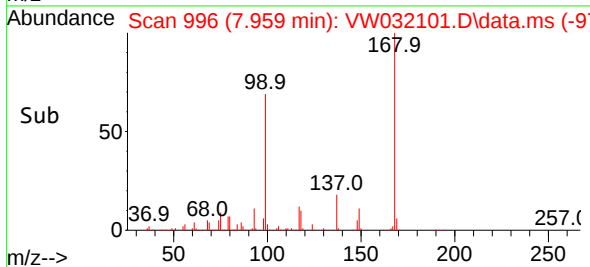
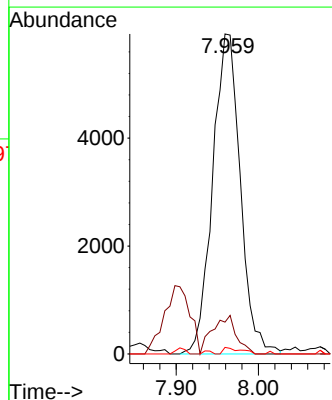
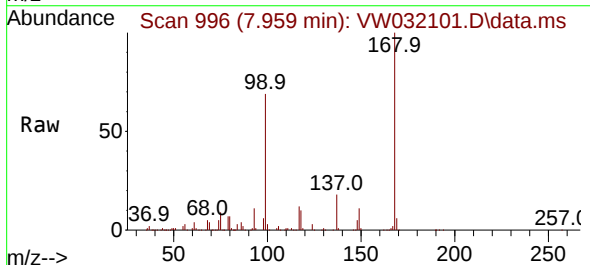
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 88H-N

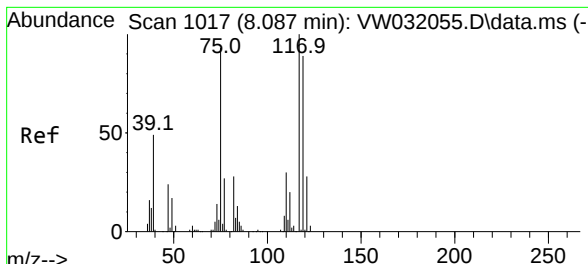
Tgt Ion: 113 Resp: 106924  
 Ion Ratio Lower Upper  
 113 100  
 111 104.3 80.1 120.1  
 192 15.8 13.1 19.7



#36  
 1,1-Dichloropropene  
 Concen: 5.117 ug/l  
 RT: 7.959 min Scan# 996  
 Delta R.T. -0.140 min  
 Lab File: VW032101.D  
 Acq: 14 Aug 2025 18:02

Tgt Ion: 75 Resp: 13845  
 Ion Ratio Lower Upper  
 75 100  
 110 10.4 17.4 52.2#  
 77 1.3 24.7 37.1#

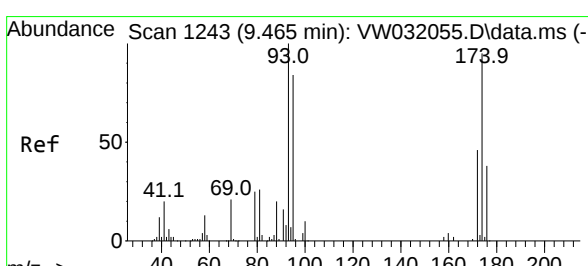
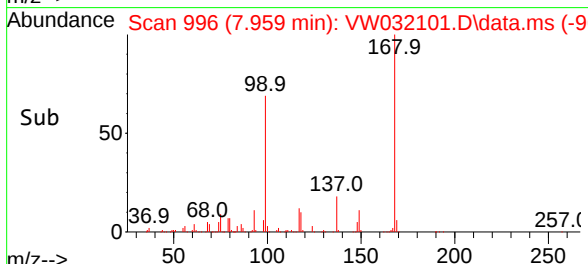
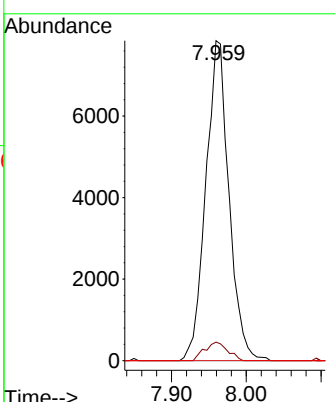
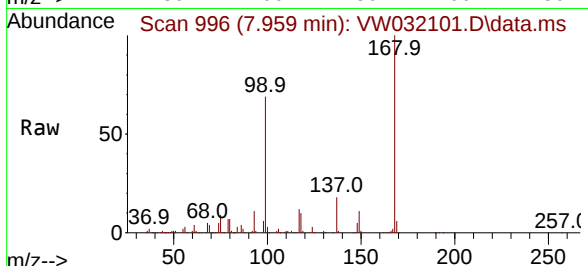




#38  
Carbon Tetrachloride  
Concen: 6.465 ug/l  
RT: 7.959 min Scan# 91  
Delta R.T. -0.128 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

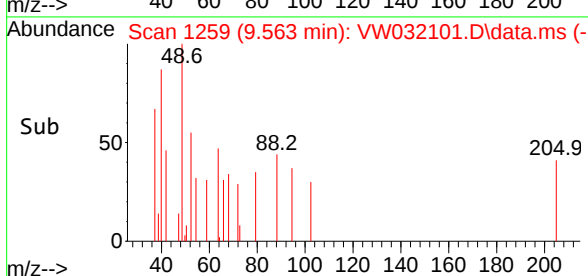
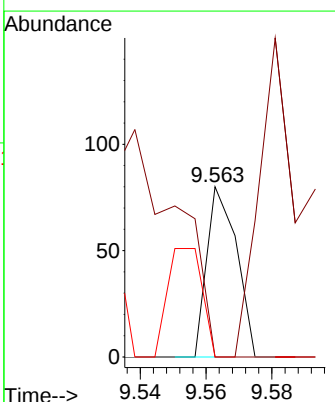
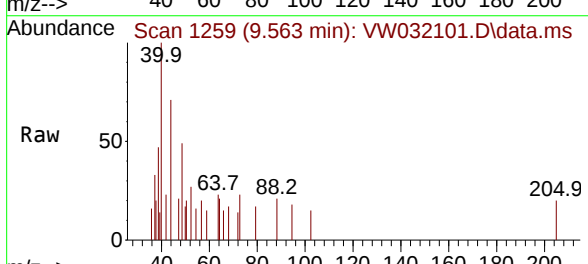
Instrument :  
MSVOA\_W  
ClientSampleId :  
88H-N

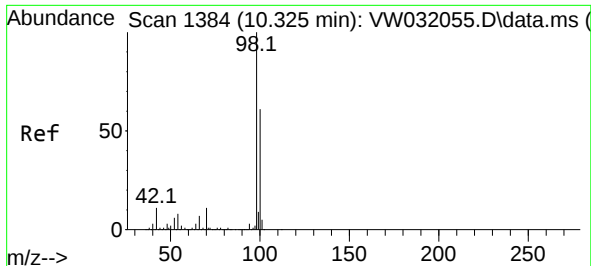
|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 117   | Resp: | 16881  |
| Ion      | Ratio | Lower | Upper  |
| 117      | 100   |       |        |
| 119      | 5.8   | 71.4  | 107.2# |
| 121      | 0.0   | 22.3  | 33.5#  |



#49  
1,4-Dioxane  
Concen: 2.949 ug/l  
RT: 9.563 min Scan# 1259  
Delta R.T. 0.098 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 88    | Resp: | 50    |
| Ion      | Ratio | Lower | Upper |
| 88       | 100   |       |       |
| 43       | 202.0 | 20.6  | 30.8# |
| 58       | 0.0   | 60.4  | 90.6# |

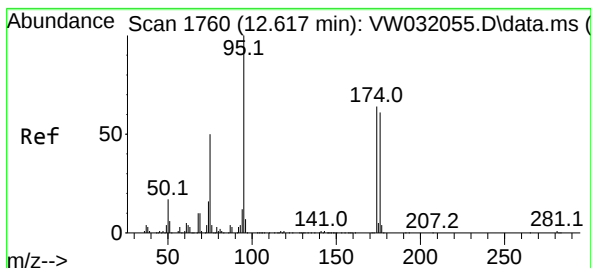
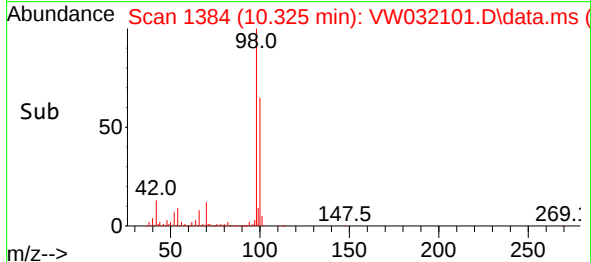
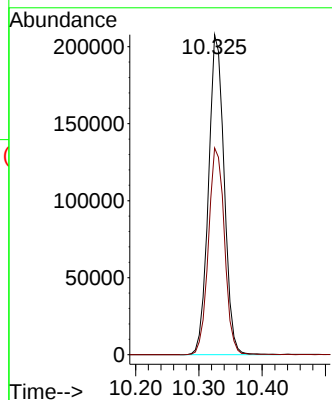
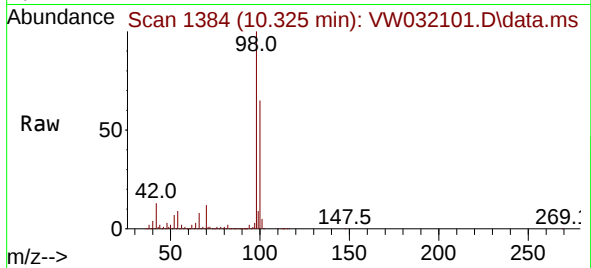




#50  
Toluene-d8  
Concen: 50.467 ug/l  
RT: 10.325 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

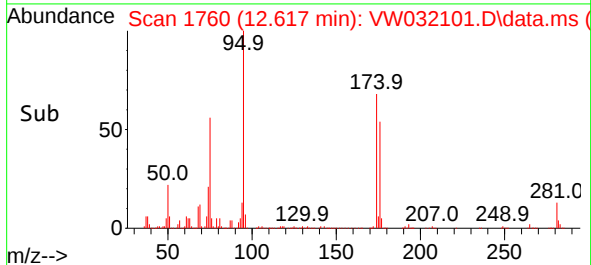
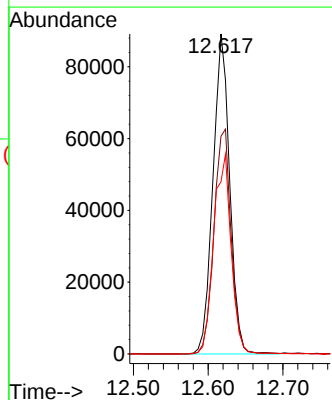
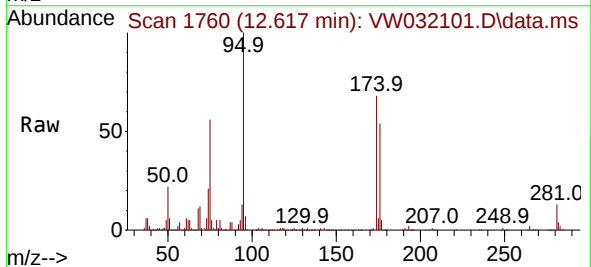
Instrument :  
MSVOA\_W  
ClientSampleId :  
88H-N

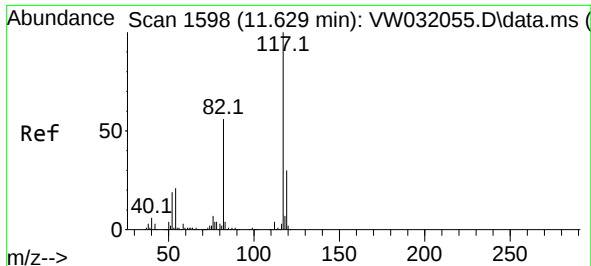
Tgt Ion: 98 Resp: 358263  
Ion Ratio Lower Upper  
98 100  
100 66.2 51.1 76.7



#62  
4-Bromofluorobenzene  
Concen: 53.015 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. 0.000 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

Tgt Ion: 95 Resp: 138690  
Ion Ratio Lower Upper  
95 100  
174 72.1 0.0 129.0  
176 65.2 0.0 124.6

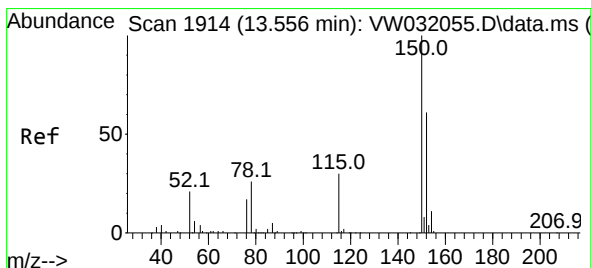
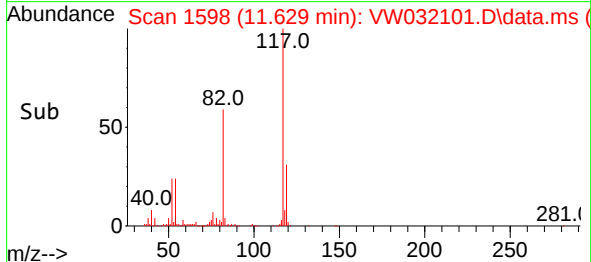
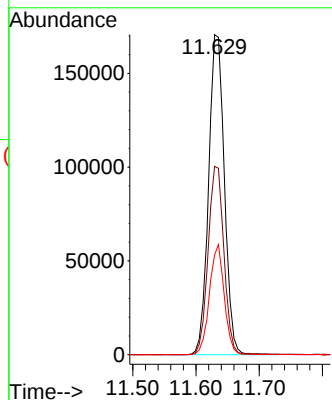
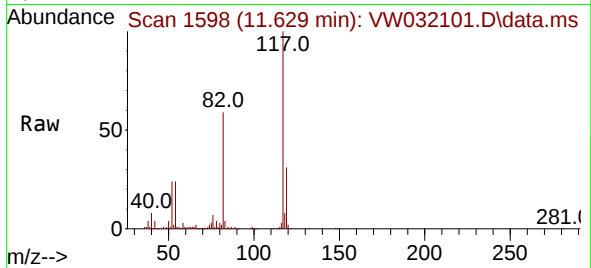




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.629 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

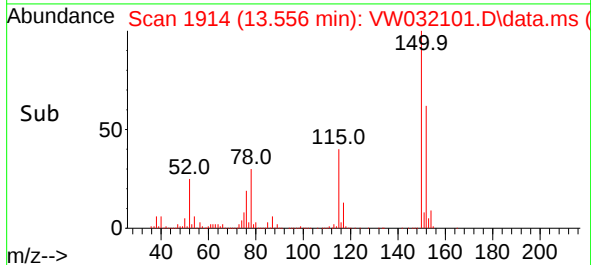
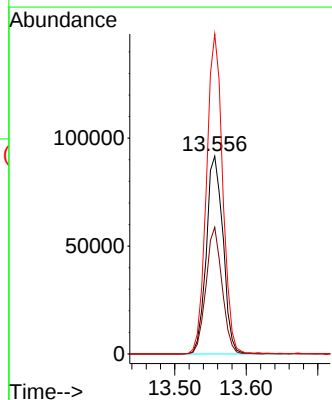
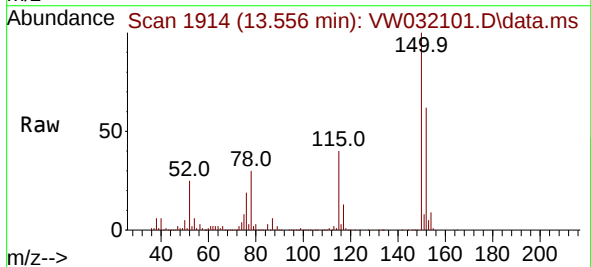
Instrument :  
MSVOA\_W  
ClientSampleId :  
88H-N

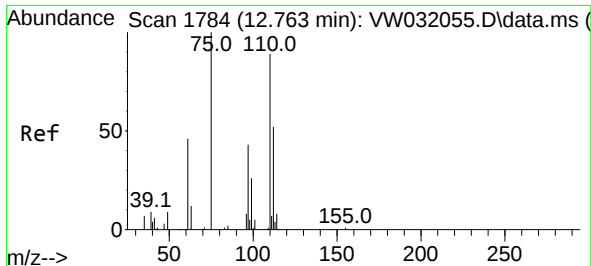
Tgt Ion:117 Resp: 296209  
Ion Ratio Lower Upper  
117 100  
82 58.9 45.0 67.4  
119 31.2 24.2 36.4



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.556 min Scan# 1914  
Delta R.T. 0.000 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

Tgt Ion:152 Resp: 149072  
Ion Ratio Lower Upper  
152 100  
115 61.7 32.6 97.8  
150 156.5 0.0 359.4

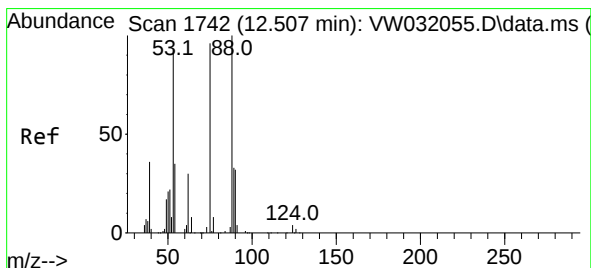
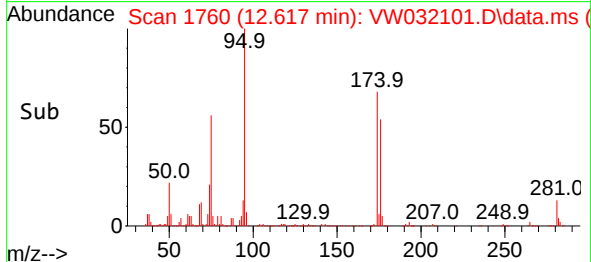
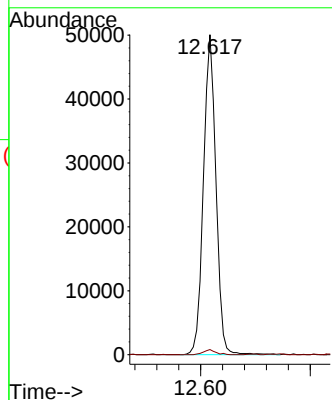
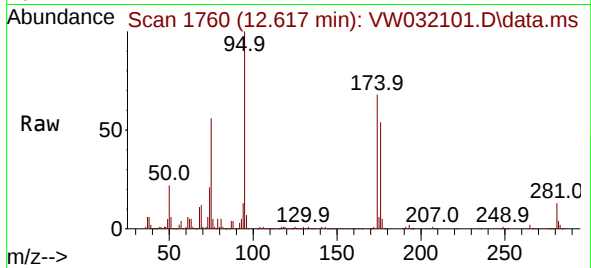




#76  
1,2,3-Trichloropropane  
Concen: 39.099 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. -0.146 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

Instrument :  
MSVOA\_W  
ClientSampleId :  
88H-N

Tgt Ion: 75 Resp: 79107  
Ion Ratio Lower Upper  
75 100  
77 1.5 123.5 370.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 101.223 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. 0.110 min  
Lab File: VW032101.D  
Acq: 14 Aug 2025 18:02

Tgt Ion: 75 Resp: 79107  
Ion Ratio Lower Upper  
75 100  
53 0.3 81.0 121.6#  
89 0.5 37.3 55.9#

