

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW091825\  
 Data File : VW032200.D  
 Acq On : 18 Sep 2025 15:26  
 Operator : SY/MD  
 Sample : Q3133-07  
 Misc : 3.45g/5mL/MSVOA\_W/SOIL/A  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VNJ-210

Quant Time: Sep 19 04:35:09 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W082625S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 27 04:13:40 2025  
 Response via : Initial Calibration

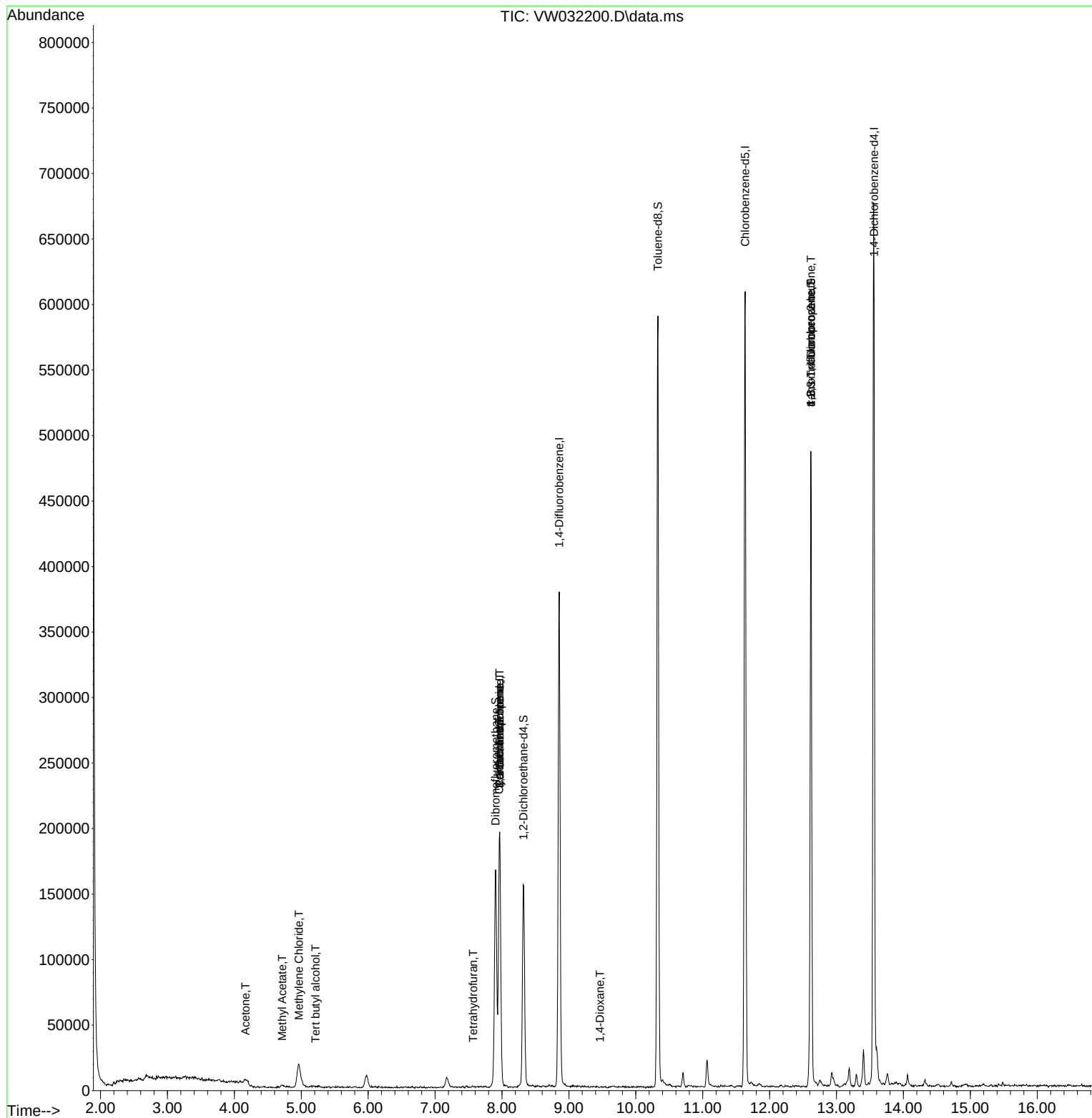
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 7.965  | 168            | 131697   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.855  | 114            | 307869   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.635 | 117            | 326005   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.562 | 152            | 169360   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.319  | 65             | 127639   | 67.769     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 63 - 155 | Recovery | = 135.540% |        |          |
| 35) Dibromofluoromethane      | 7.904  | 113            | 114892   | 53.191     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 70 - 134 | Recovery | = 106.380% |        |          |
| 50) Toluene-d8                | 10.331 | 98             | 380512   | 50.182     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 123 | Recovery | = 100.360% |        |          |
| 62) 4-Bromofluorobenzene      | 12.617 | 95             | 148146   | 52.835     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 17 - 146 | Recovery | = 105.680% |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 11) Tert butyl alcohol        | 5.216  | 59             | 483      | 4.193      | ug/l # | 69       |
| 16) Acetone                   | 4.167  | 43             | 2803     | 6.872      | ug/l # | 67       |
| 18) Methyl Acetate            | 4.716  | 43             | 3408     | 2.622      | ug/l # | 82       |
| 20) Methylene Chloride        | 4.966  | 84             | 16945    | 6.744      | ug/l   | 94       |
| 29) Tetrahydrofuran           | 7.569  | 42             | 758      | 2.064      | ug/l # | 47       |
| 31) Cyclohexane               | 7.959  | 56             | 4495     | 1.944      | ug/l # | 37       |
| 36) 1,1-Dichloropropene       | 7.965  | 75             | 13441    | 4.799      | ug/l # | 52       |
| 38) Carbon Tetrachloride      | 7.965  | 117            | 16362    | 5.450      | ug/l # | 18       |
| 49) 1,4-Dioxane               | 9.465  | 88             | 30       | 1.696      | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.617 | 75             | 85711    | 40.396     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.617 | 75             | 85711    | 108.766    | ug/l # | 5        |
| -----                         |        |                |          |            |        |          |

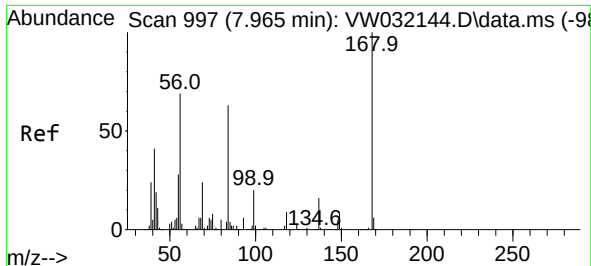
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
MSVOA\_W  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W082625S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 27 04:13:40 2025  
Response via : Initial Calibration

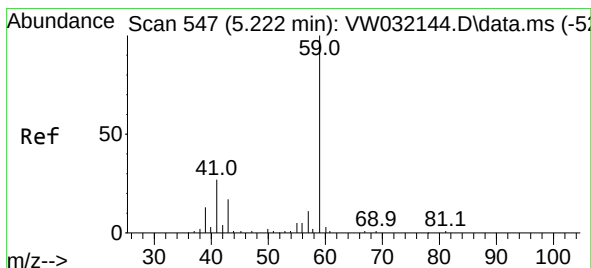
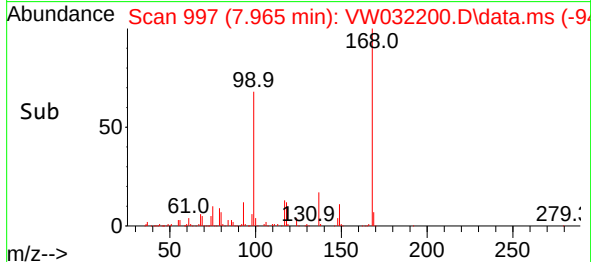
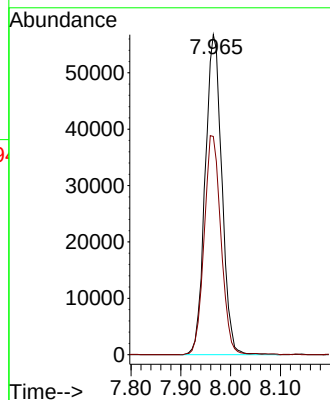
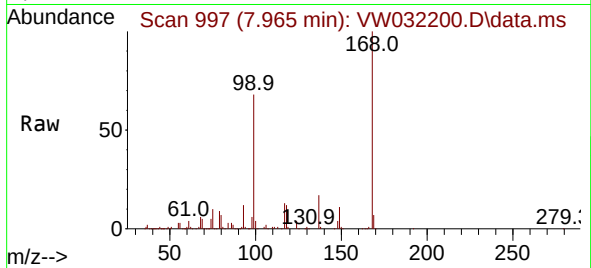




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.965 min Scan# 997  
Delta R.T. 0.000 min  
Lab File: VW032200.D  
Acq: 18 Sep 2025 15:26

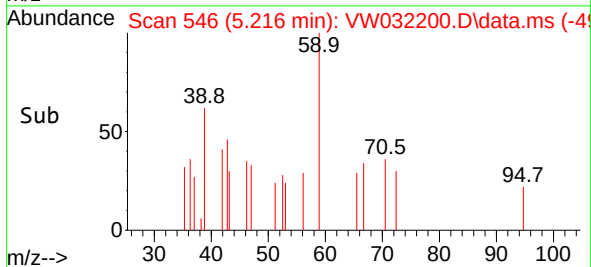
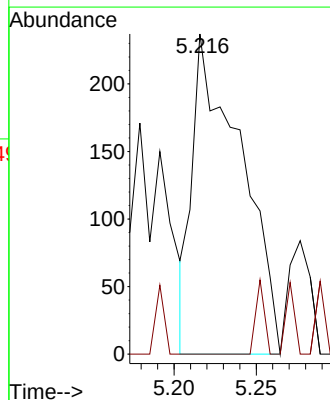
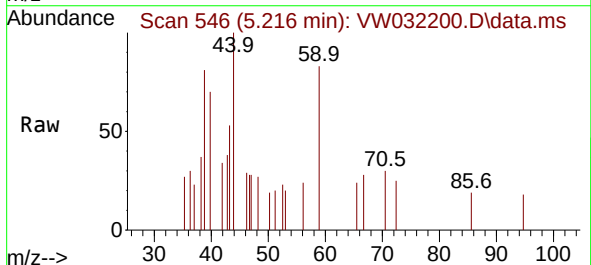
Instrument :  
MSVOA\_W  
ClientSampleId :  
VNJ-210

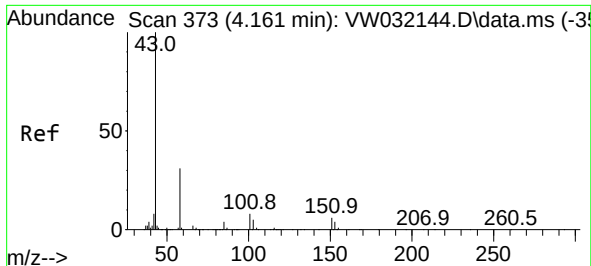
Tgt Ion:168 Resp: 131697  
Ion Ratio Lower Upper  
168 100  
99 68.2 49.3 73.9



#11  
Tert butyl alcohol  
Concen: 4.193 ug/l  
RT: 5.216 min Scan# 546  
Delta R.T. -0.006 min  
Lab File: VW032200.D  
Acq: 18 Sep 2025 15:26

Tgt Ion: 59 Resp: 483  
Ion Ratio Lower Upper  
59 100  
57 0.0 9.8 14.6#

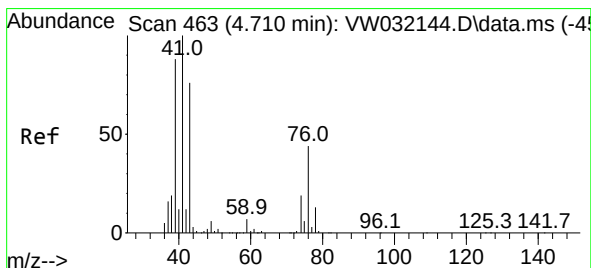
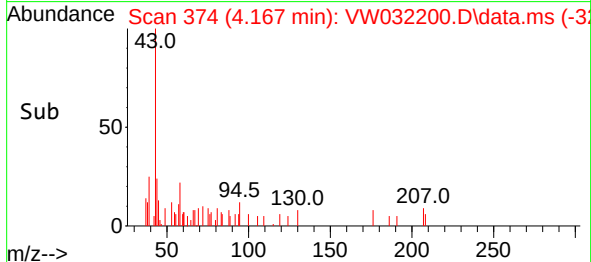
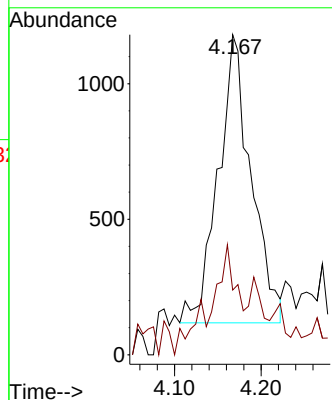
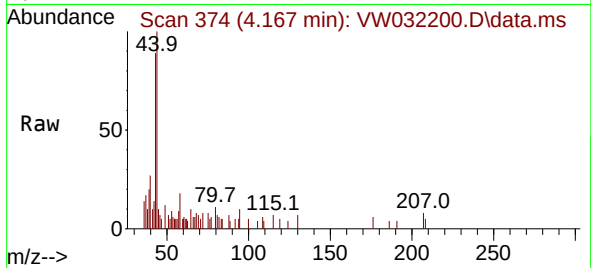




#16  
Acetone  
Concen: 6.872 ug/l  
RT: 4.167 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VW032200.D  
Acq: 18 Sep 2025 15:26

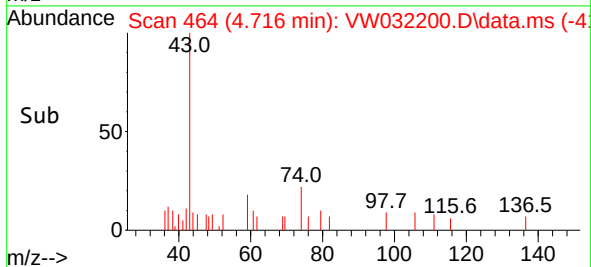
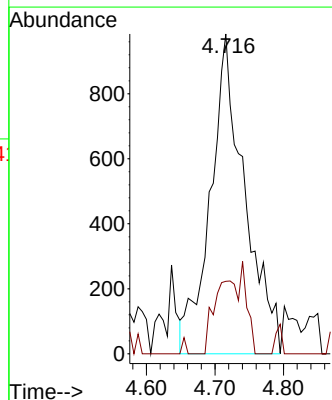
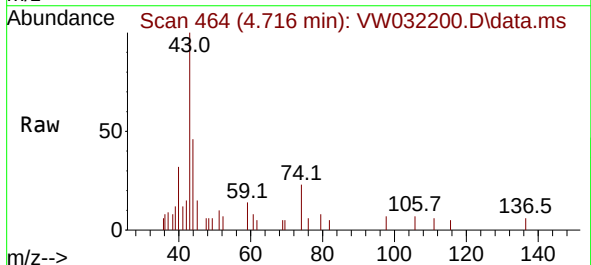
Instrument :  
MSVOA\_W  
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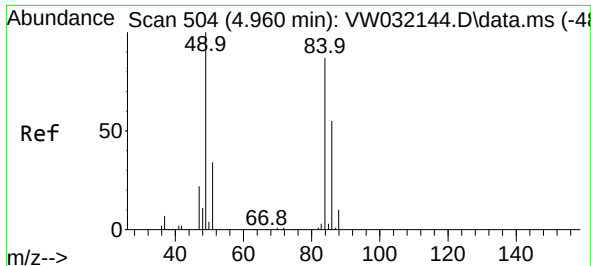
Tgt Ion: 43 Resp: 2803  
Ion Ratio Lower Upper  
43 100  
58 13.4 25.3 37.9#



#18  
Methyl Acetate  
Concen: 2.622 ug/l  
RT: 4.716 min Scan# 464  
Delta R.T. 0.006 min  
Lab File: VW032200.D  
Acq: 18 Sep 2025 15:26

Tgt Ion: 43 Resp: 3408  
Ion Ratio Lower Upper  
43 100  
74 16.0 20.2 30.4#

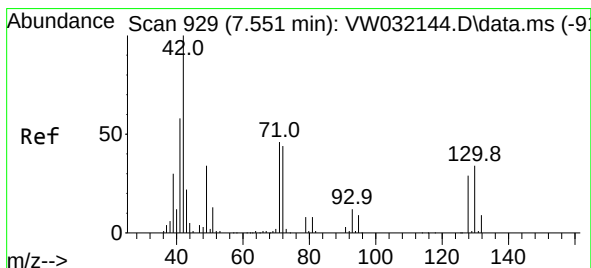
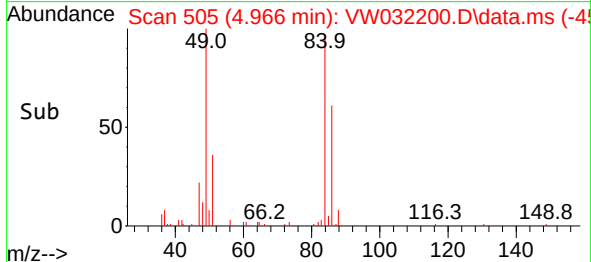
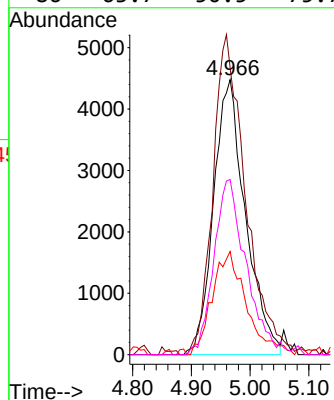
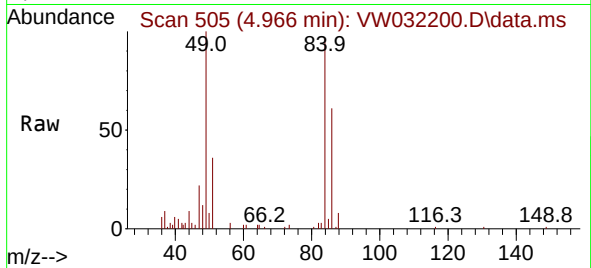




#20  
Methylene Chloride  
Concen: 6.744 ug/l  
RT: 4.966 min Scan# 504  
Delta R.T. 0.006 min  
Lab File: VW032200.D  
Acq: 18 Sep 2025 15:26

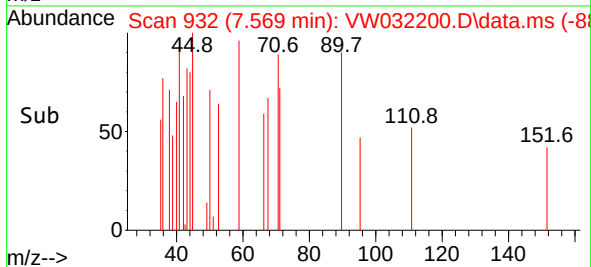
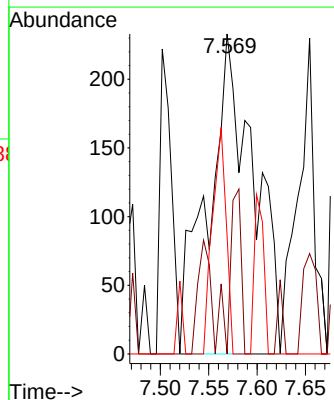
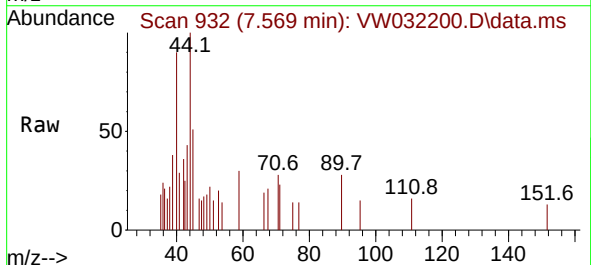
Instrument :  
MSVOA\_W  
ClientSampleId :  
VNJ-210

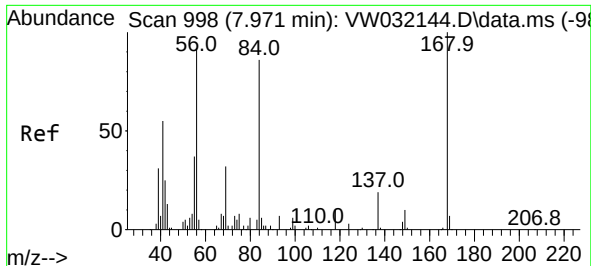
|             |             |       |       |
|-------------|-------------|-------|-------|
| Tgt Ion: 84 | Resp: 16945 |       |       |
| Ion         | Ratio       | Lower | Upper |
| 84          | 100         |       |       |
| 49          | 104.4       | 92.2  | 138.4 |
| 51          | 35.7        | 31.0  | 46.6  |
| 86          | 63.7        | 50.5  | 75.7  |



#29  
Tetrahydrofuran  
Concen: 2.064 ug/l  
RT: 7.569 min Scan# 932  
Delta R.T. 0.018 min  
Lab File: VW032200.D  
Acq: 18 Sep 2025 15:26

|             |             |
|-------------|-------------|
| Tgt Ion: 42 | Resp: 758   |
| Ion Ratio   | Lower Upper |
| 42 100      |             |
| 72 0.0      | 37.4 56.2#  |
| 71 21.5     | 36.0 54.0#  |

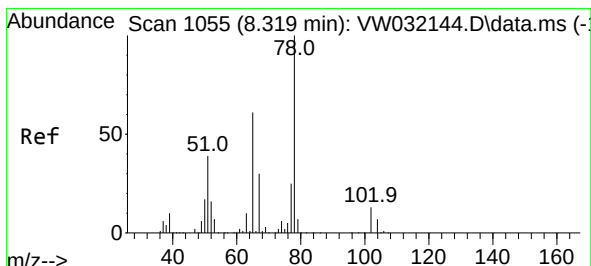
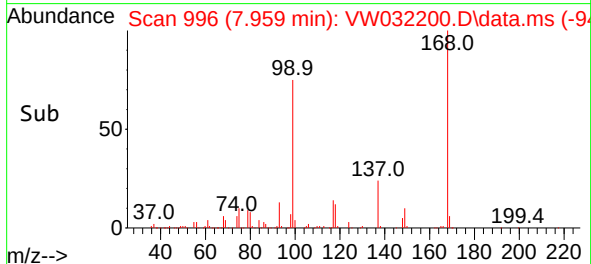
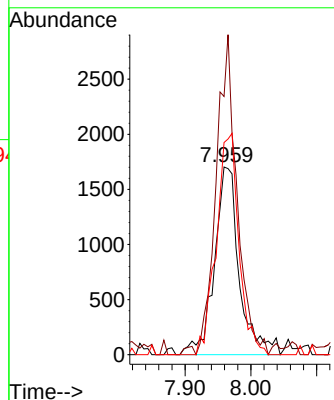
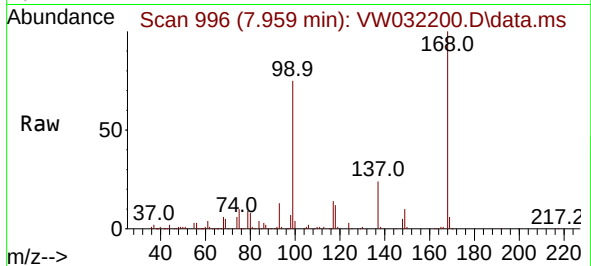




#31  
Cyclohexane  
Concen: 1.944 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.012 min  
Lab File: VW032200.D  
Acq: 18 Sep 2025 15:26

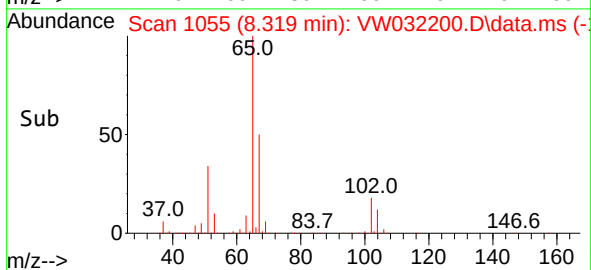
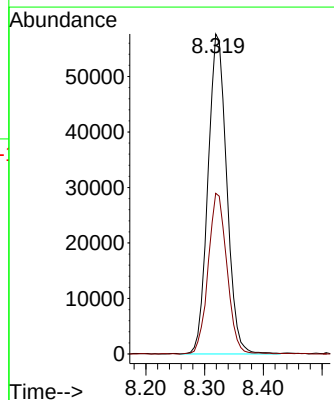
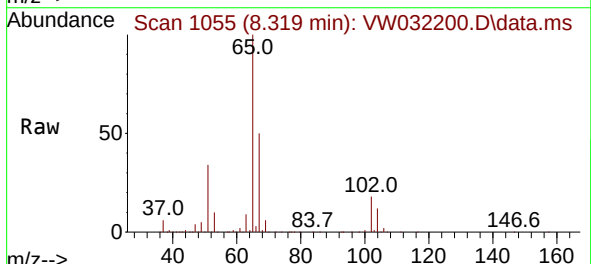
Instrument :  
MSVOA\_W  
ClientSampleId :  
VNJ-210

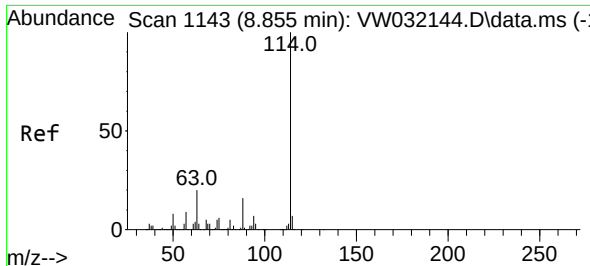
Tgt Ion: 56 Resp: 4495  
Ion Ratio Lower Upper  
56 100  
69 137.6 27.7 41.5#  
84 113.0 74.6 112.0#



#33  
1,2-Dichloroethane-d4  
Concen: 67.769 ug/l  
RT: 8.319 min Scan# 1055  
Delta R.T. -0.000 min  
Lab File: VW032200.D  
Acq: 18 Sep 2025 15:26

Tgt Ion: 65 Resp: 127639  
Ion Ratio Lower Upper  
65 100  
67 50.3 0.0 99.6

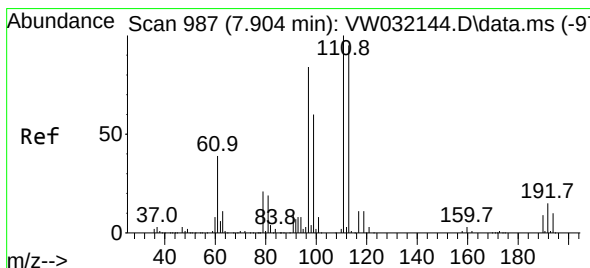
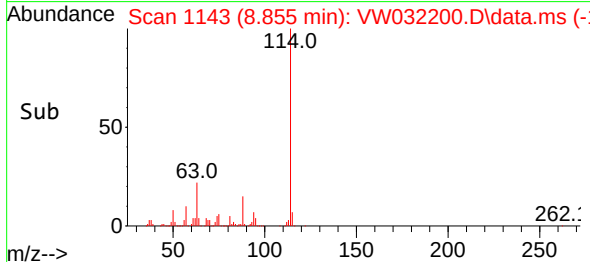
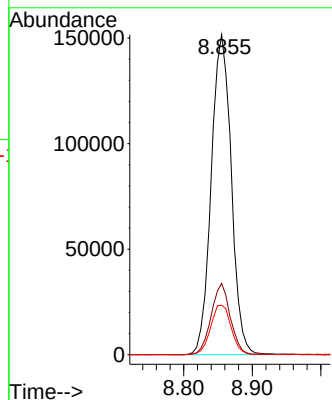
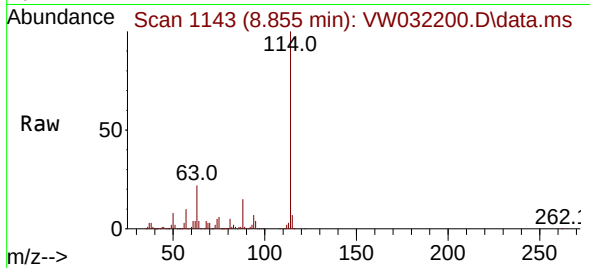




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.855 min Scan# 1143  
Delta R.T. -0.000 min  
Lab File: VW032200.D  
Acq: 18 Sep 2025 15:26

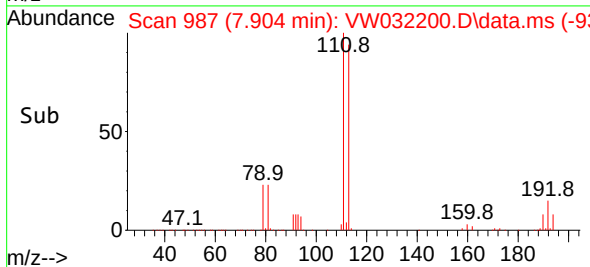
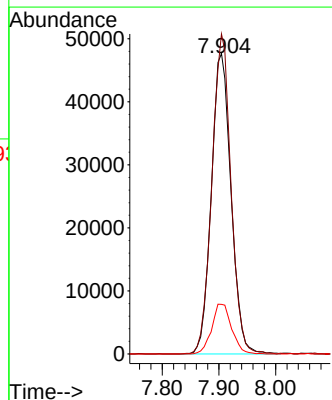
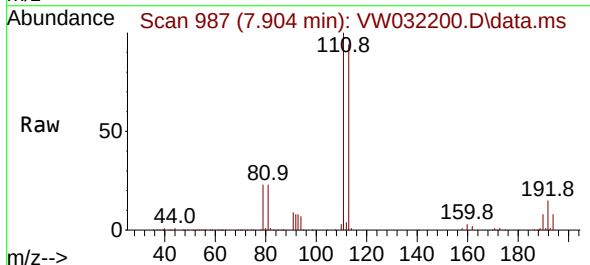
Instrument :  
MSVOA\_W  
ClientSampleId :  
VNJ-210

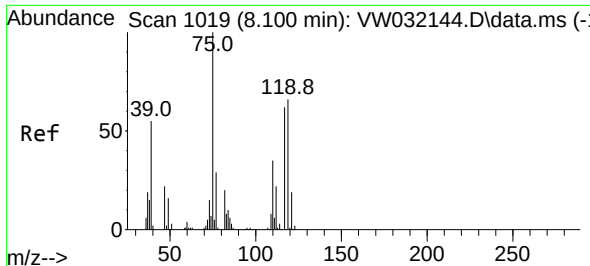
Tgt Ion:114 Resp: 307869  
Ion Ratio Lower Upper  
114 100  
63 22.3 0.0 40.4  
88 15.5 0.0 32.0



#35  
Dibromofluoromethane  
Concen: 53.191 ug/l  
RT: 7.904 min Scan# 987  
Delta R.T. -0.000 min  
Lab File: VW032200.D  
Acq: 18 Sep 2025 15:26

Tgt Ion:113 Resp: 114892  
Ion Ratio Lower Upper  
113 100  
111 103.2 83.9 125.9  
192 16.8 14.6 21.8





#36

1,1-Dichloropropene

Concen: 4.799 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.134 min

Lab File: VW032200.D

Acq: 18 Sep 2025 15:26

Instrument :

MSVOA\_W

ClientSampleId :

VNJ-210

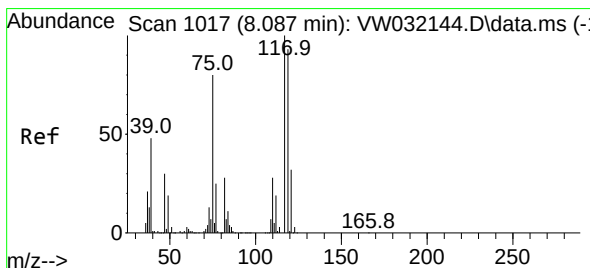
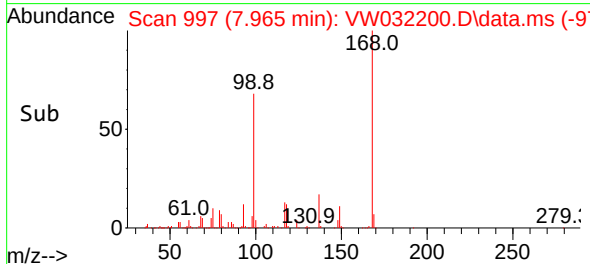
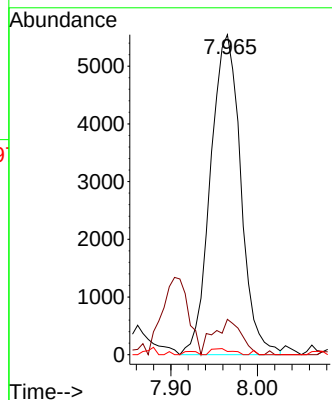
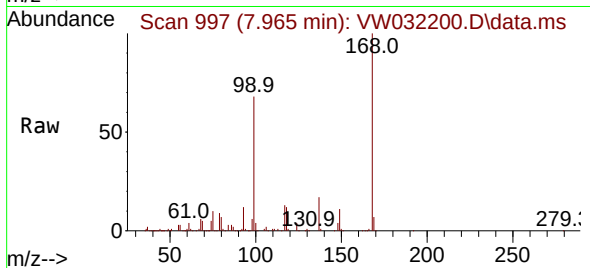
Tgt Ion: 75 Resp: 13441

Ion Ratio Lower Upper

75 100

110 9.9 17.5 52.5#

77 1.3 24.1 36.1#



#38

Carbon Tetrachloride

Concen: 5.450 ug/l

RT: 7.965 min Scan# 997

Delta R.T. -0.122 min

Lab File: VW032200.D

Acq: 18 Sep 2025 15:26

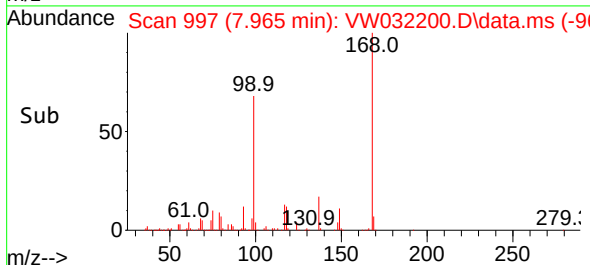
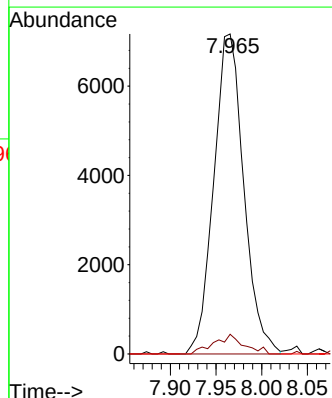
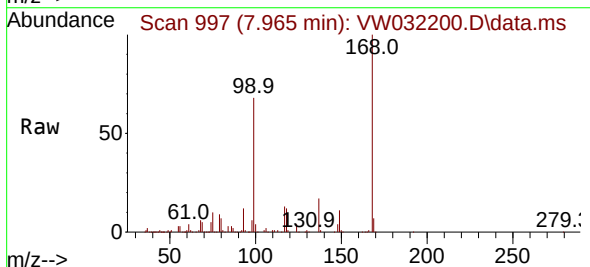
Tgt Ion: 117 Resp: 16362

Ion Ratio Lower Upper

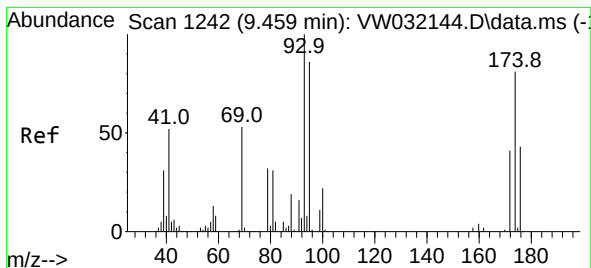
117 100

119 6.2 74.2 111.2#

121 0.0 25.6 38.4#







#49

1,4-Dioxane

Concen: 1.696 ug/l

RT: 9.465 min Scan# 1

Delta R.T. 0.006 min

Lab File: VW032200.D

Acq: 18 Sep 2025 15:26

Instrument :

MSVOA\_W

ClientSampleId :

VNJ-210

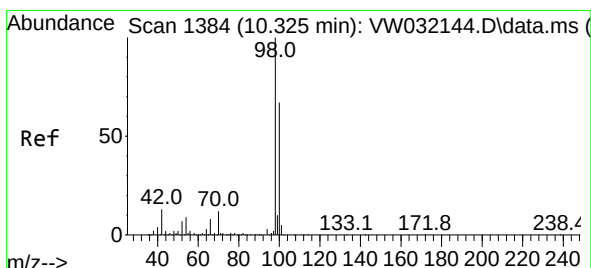
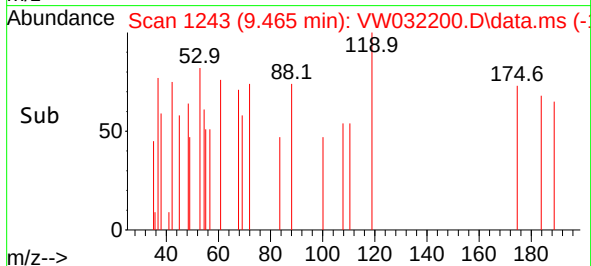
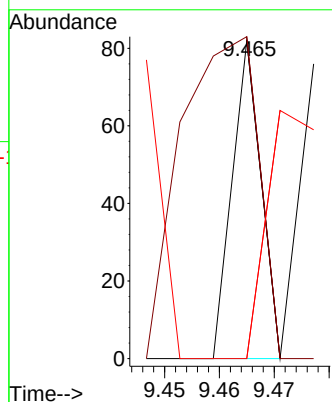
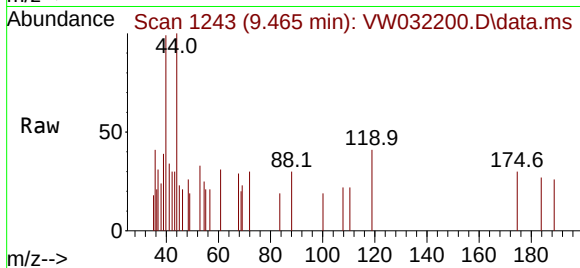
Tgt Ion: 88 Resp: 30

Ion Ratio Lower Upper

88 100

43 270.0 18.0 27.0#

58 150.0 55.4 83.0#



#50

Toluene-d8

Concen: 50.182 ug/l

RT: 10.331 min Scan# 1385

Delta R.T. 0.006 min

Lab File: VW032200.D

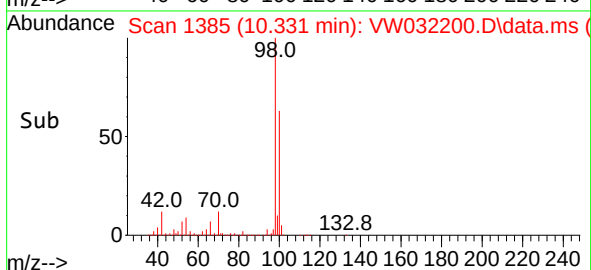
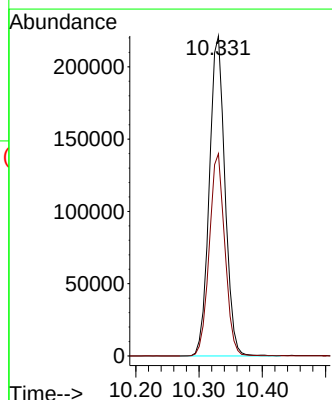
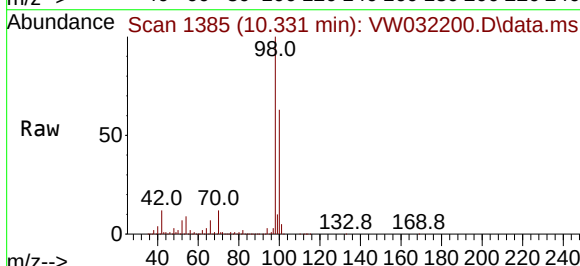
Acq: 18 Sep 2025 15:26

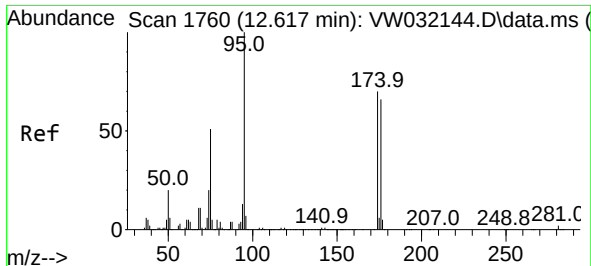
Tgt Ion: 98 Resp: 380512

Ion Ratio Lower Upper

98 100

100 63.1 51.4 77.2

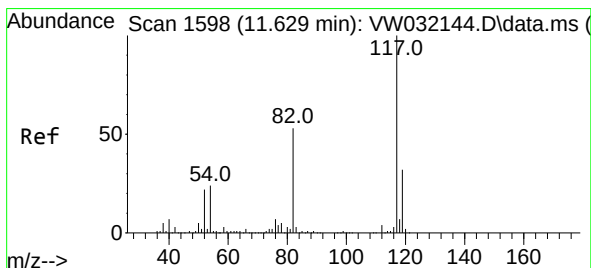
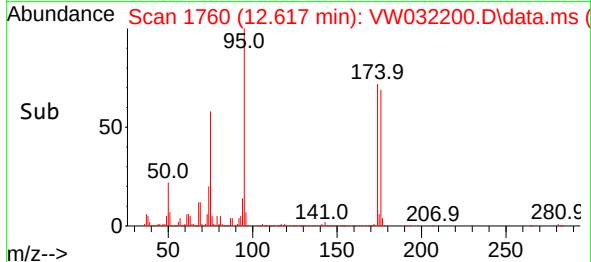
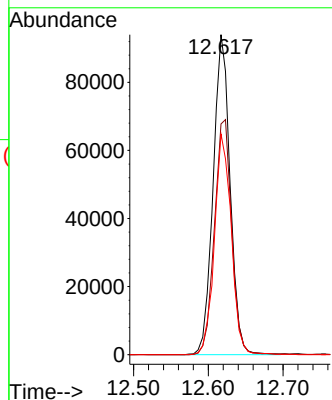
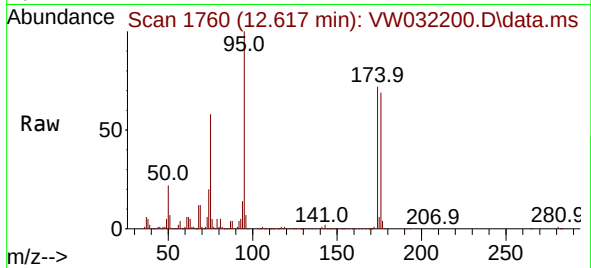




#62  
4-Bromofluorobenzene  
Concen: 52.835 ug/l  
RT: 12.617 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VW032200.D  
Acq: 18 Sep 2025 15:26

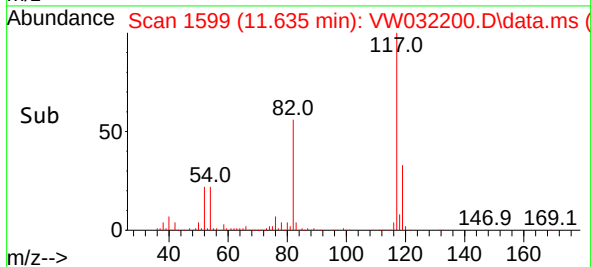
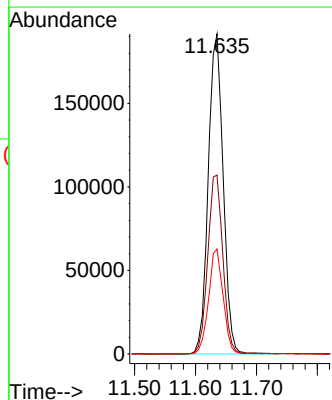
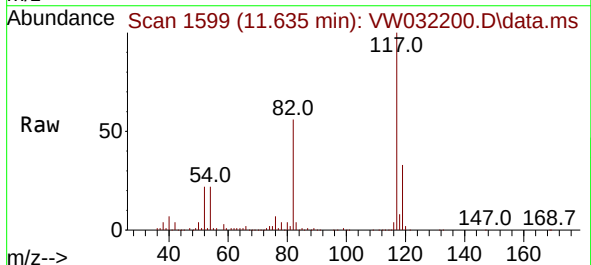
Instrument :  
MSVOA\_W  
ClientSampleId :  
VNJ-210

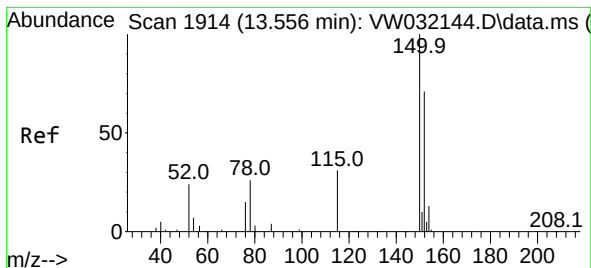
Tgt Ion: 95 Resp: 148146  
Ion Ratio Lower Upper  
95 100  
174 75.1 0.0 145.6  
176 68.6 0.0 140.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.635 min Scan# 1599  
Delta R.T. 0.006 min  
Lab File: VW032200.D  
Acq: 18 Sep 2025 15:26

Tgt Ion: 117 Resp: 326005  
Ion Ratio Lower Upper  
117 100  
82 55.9 42.7 64.1  
119 32.7 25.2 37.8

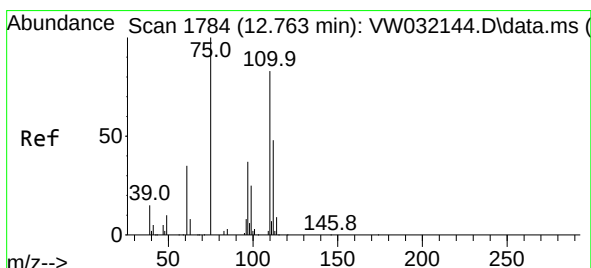
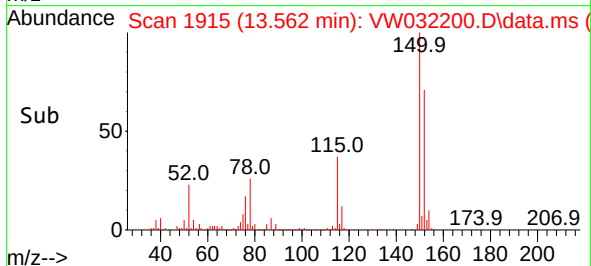
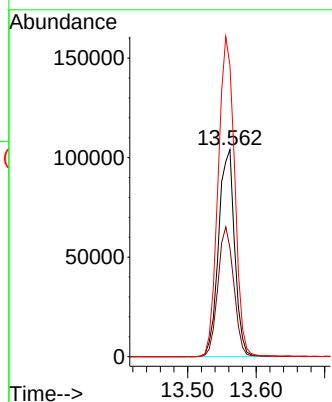
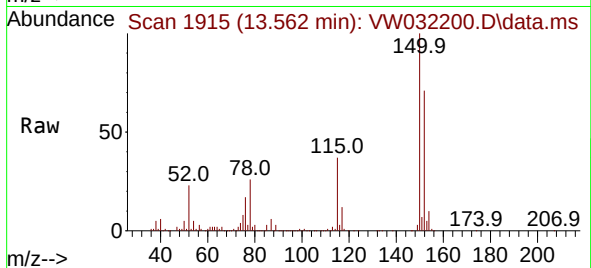




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.562 min Scan# 1914  
 Delta R.T. 0.006 min  
 Lab File: VW032200.D  
 Acq: 18 Sep 2025 15:26

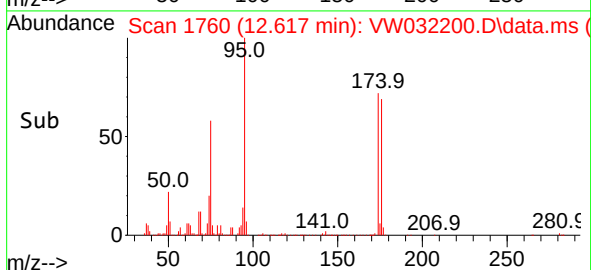
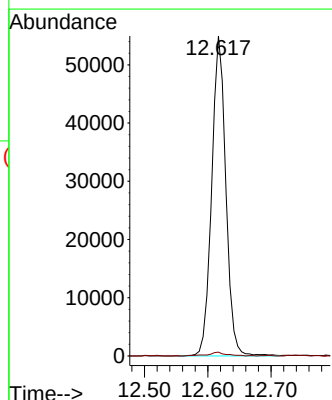
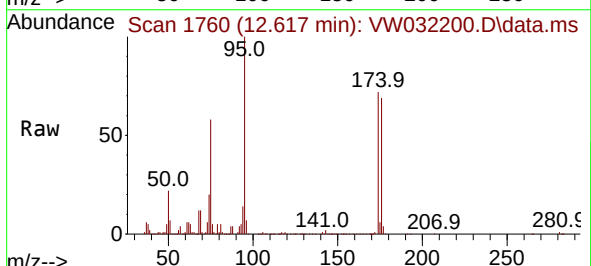
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VNJ-210

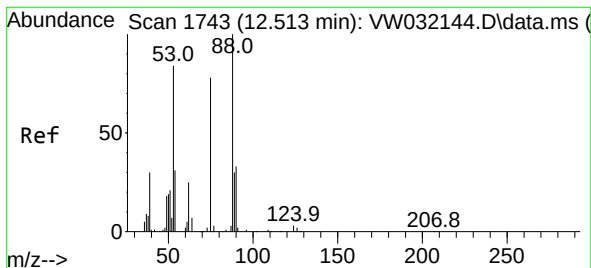
Tgt Ion:152 Resp: 169360  
 Ion Ratio Lower Upper  
 152 100  
 115 62.2 31.8 95.4  
 150 158.3 0.0 343.0



#76  
 1,2,3-Trichloropropane  
 Concen: 40.396 ug/l  
 RT: 12.617 min Scan# 1760  
 Delta R.T. -0.146 min  
 Lab File: VW032200.D  
 Acq: 18 Sep 2025 15:26

Tgt Ion: 75 Resp: 85711  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 141.7 425.1#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 108.766 ug/l  
 RT: 12.617 min Scan# 11  
 Delta R.T. 0.103 min  
 Lab File: VW032200.D  
 Acq: 18 Sep 2025 15:26

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 VNJ-210

Tgt Ion: 75 Resp: 85711  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 91.0 136.6#  
 89 0.1 39.4 59.2#

