

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW112125\  
 Data File : VW032526.D  
 Acq On : 21 Nov 2025 15:16  
 Operator : SY/MD  
 Sample : Q3697-01  
 Misc : 4.00g/5mL/MSVOA\_W/SOIL/A  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MOO-25-0331

Quant Time: Nov 26 01:22:39 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_W\Method\82W111025S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 11 03:48:21 2025  
 Response via : Initial Calibration

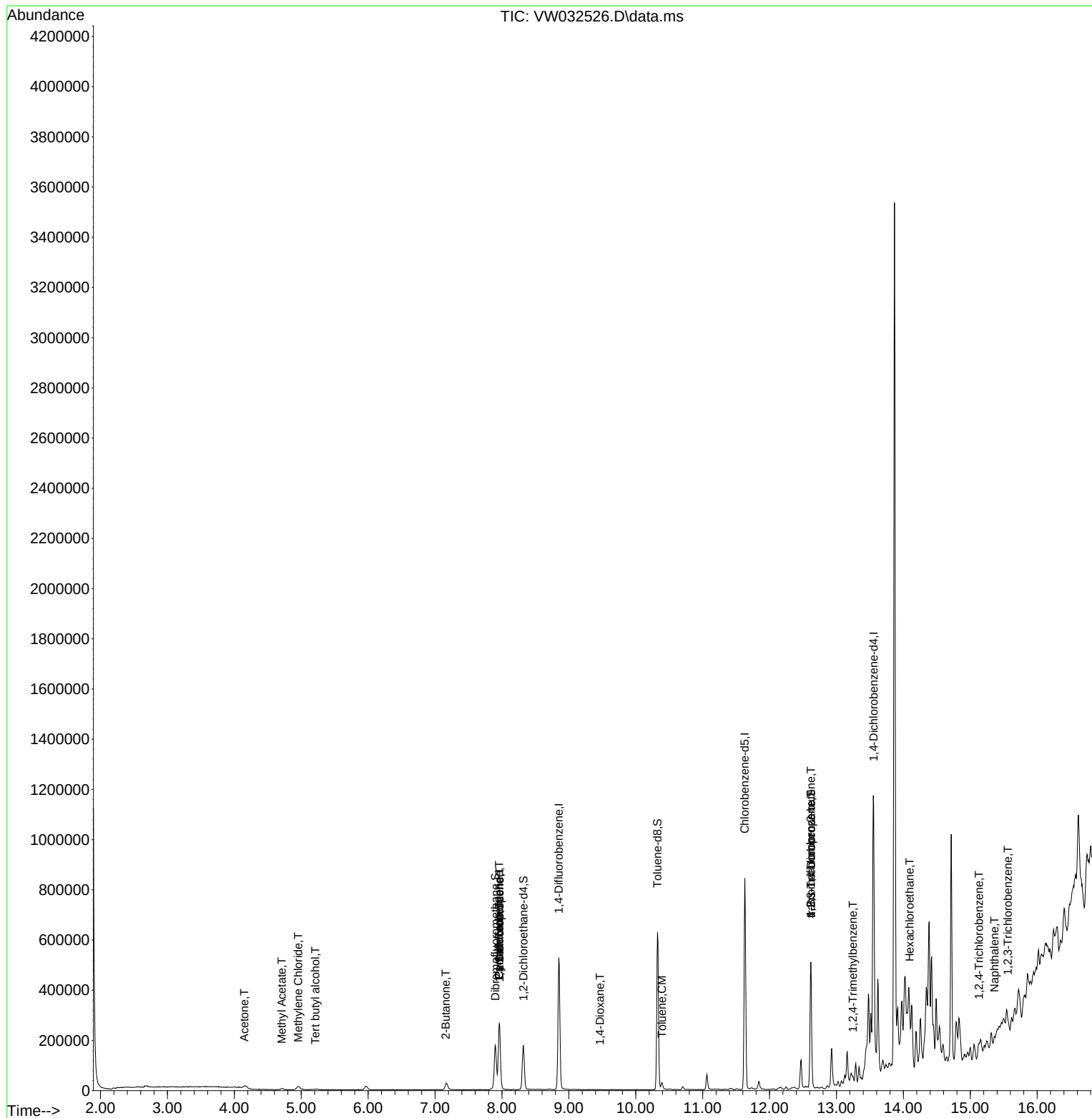
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 7.959  | 168            | 183174   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.849  | 114            | 435001   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.629 | 117            | 448040   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.556 | 152            | 200363   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.319  | 65             | 141756   | 60.027     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 63 - 155 | Recovery | = 120.060% |        |          |
| 35) Dibromofluoromethane      | 7.898  | 113            | 130623   | 50.154     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 70 - 134 | Recovery | = 100.300% |        |          |
| 50) Toluene-d8                | 10.325 | 98             | 415850   | 41.620     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 74 - 123 | Recovery | = 83.240%  |        |          |
| 62) 4-Bromofluorobenzene      | 12.617 | 95             | 179889   | 47.660     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 17 - 146 | Recovery | = 95.320%  |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 11) Tert butyl alcohol        | 5.210  | 59             | 3021     | 14.794     | ug/l # | 86       |
| 16) Acetone                   | 4.149  | 43             | 11462    | 16.223     | ug/l   | 94       |
| 18) Methyl Acetate            | 4.710  | 43             | 10641    | 6.082      | ug/l   | 96       |
| 20) Methylene Chloride        | 4.954  | 84             | 12055    | 4.771      | ug/l   | 96       |
| 25) 2-Butanone                | 7.161  | 43             | 1686     | 1.620      | ug/l   | 100      |
| 31) Cyclohexane               | 7.959  | 56             | 4811     | 1.231      | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.965  | 75             | 17061    | 4.446      | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 7.959  | 117            | 20392    | 5.981      | ug/l # | 17       |
| 49) 1,4-Dioxane               | 9.465  | 88             | 37       | 1.469      | ug/l # | 1        |
| 52) Toluene                   | 10.392 | 92             | 11398    | 1.493      | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 12.617 | 75             | 89909    | 32.726     | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.617 | 75             | 89909    | 74.957     | ug/l # | 11       |
| 84) 1,2,4-Trimethylbenzene    | 13.245 | 105            | 17115    | 1.386      | ug/l   | 97       |
| 90) Hexachloroethane          | 14.092 | 117            | 3477     | 1.485      | ug/l # | 18       |
| 93) 1,2,4-Trichlorobenzene    | 15.129 | 180            | 8657     | 2.243      | ug/l # | 66       |
| 95) Naphthalene               | 15.361 | 128            | 44511    | 4.625      | ug/l # | 96       |
| 96) 1,2,3-Trichlorobenzene    | 15.562 | 180            | 3963     | 1.131      | ug/l   | 74       |
| -----                         |        |                |          |            |        |          |

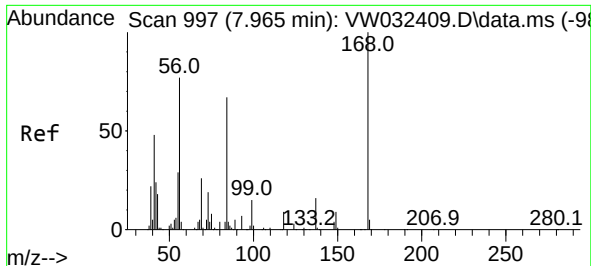
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW112125\  
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Sample : Q3697-01  
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ALS Vial : 9 Sample Multiplier: 1

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ClientSampleId :  
MOO-25-0331

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QLast Update : Tue Nov 11 03:48:21 2025  
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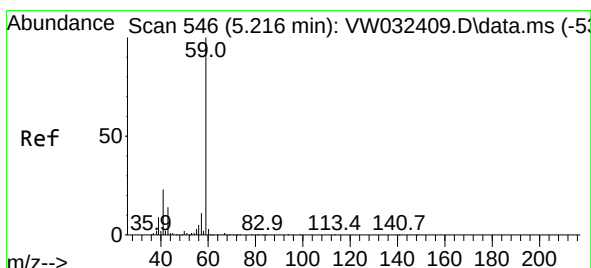
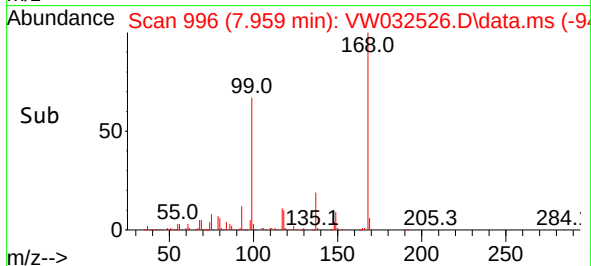
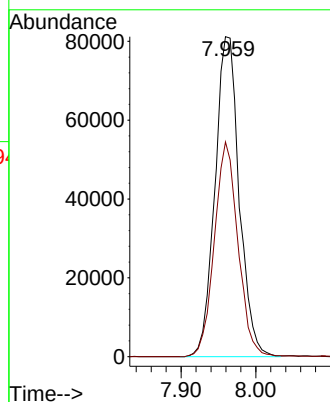
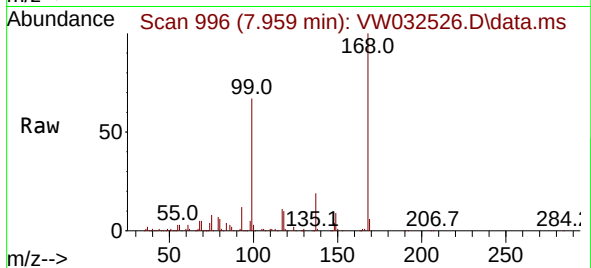




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.959 min Scan# 99  
Delta R.T. -0.006 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

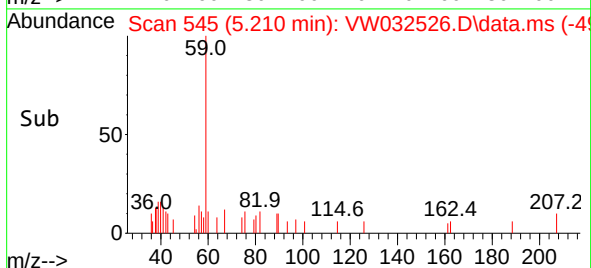
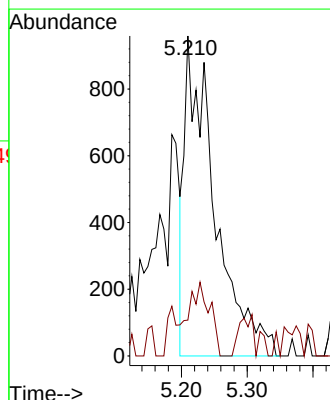
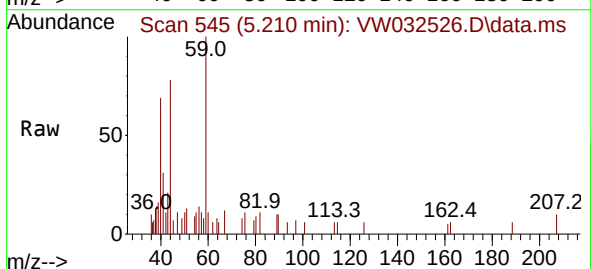
Instrument :  
MSVOA\_W  
ClientSampleId :  
MOO-25-0331

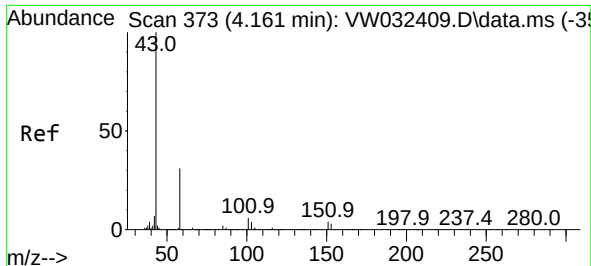
Tgt Ion:168 Resp: 183174  
Ion Ratio Lower Upper  
168 100  
99 67.1 45.4 68.2



#11  
Tert butyl alcohol  
Concen: 14.794 ug/l  
RT: 5.210 min Scan# 545  
Delta R.T. -0.006 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

Tgt Ion: 59 Resp: 3021  
Ion Ratio Lower Upper  
59 100  
57 15.9 8.6 12.8

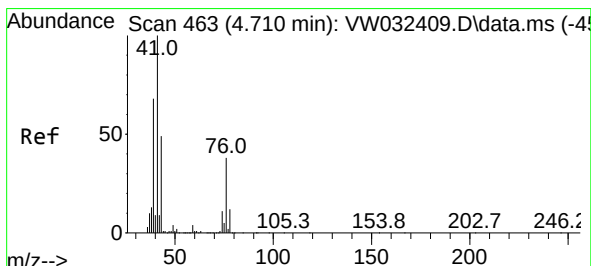
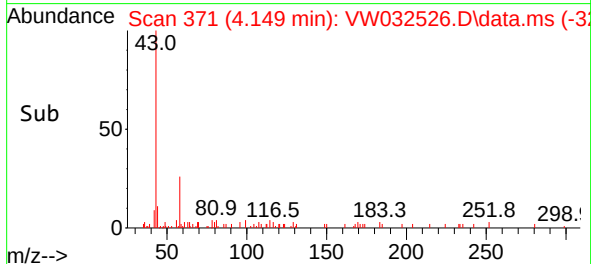
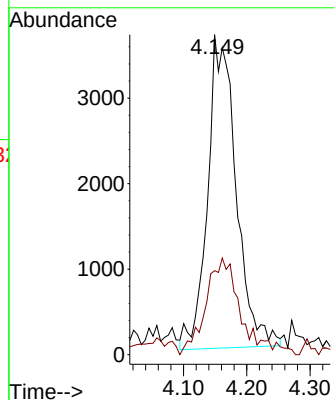
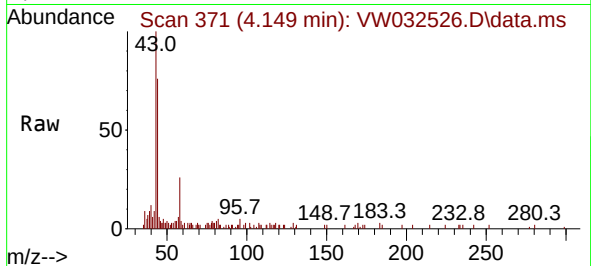




#16  
Acetone  
Concen: 16.223 ug/l  
RT: 4.149 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

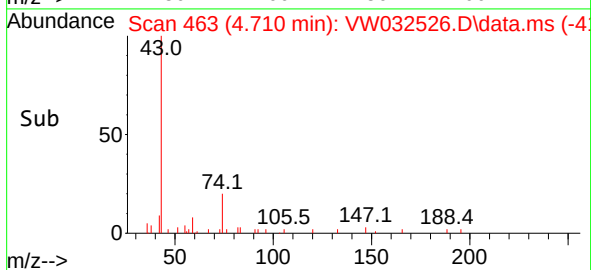
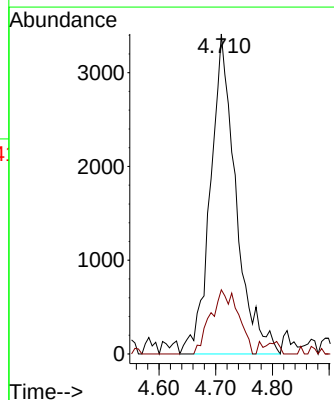
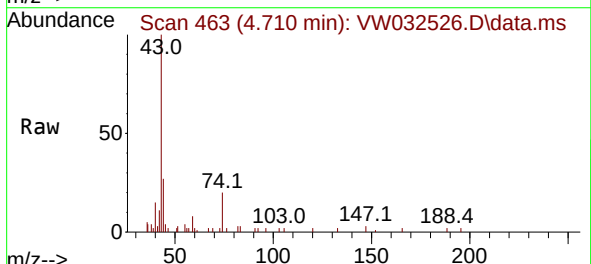
Instrument :  
MSVOA\_W  
ClientSampleId :  
MOO-25-0331

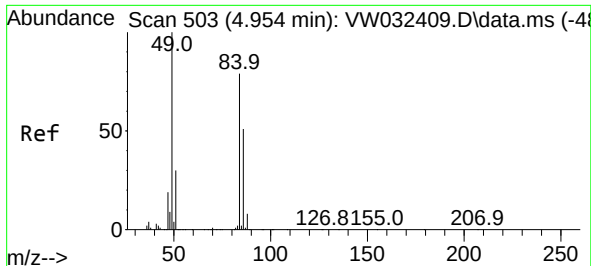
Tgt Ion: 43 Resp: 11462  
Ion Ratio Lower Upper  
43 100  
58 27.5 24.8 37.2



#18  
Methyl Acetate  
Concen: 6.082 ug/l  
RT: 4.710 min Scan# 463  
Delta R.T. 0.000 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

Tgt Ion: 43 Resp: 10641  
Ion Ratio Lower Upper  
43 100  
74 21.8 18.9 28.3

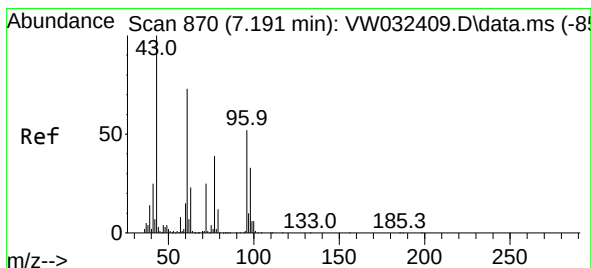
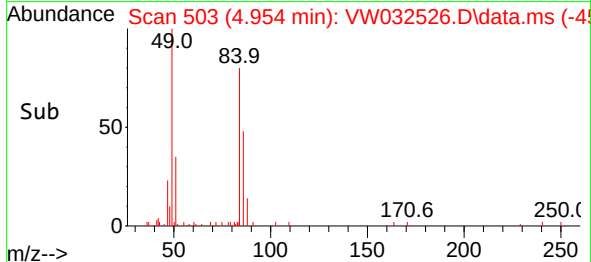
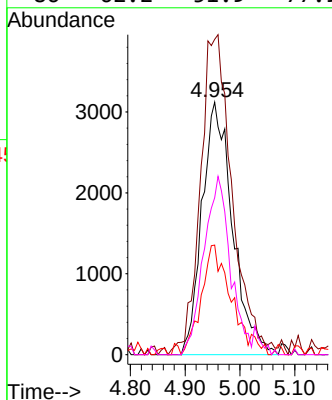
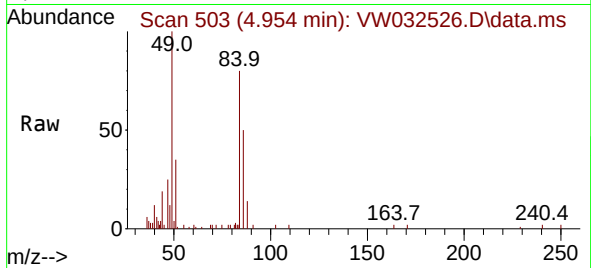




#20  
Methylene Chloride  
Concen: 4.771 ug/l  
RT: 4.954 min Scan# 503  
Delta R.T. 0.000 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

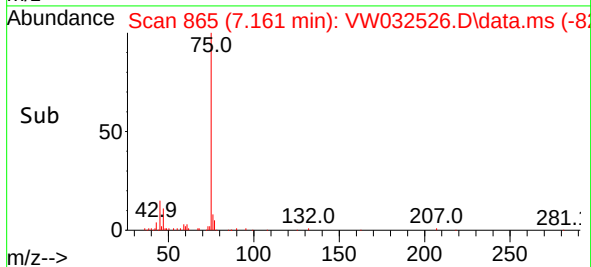
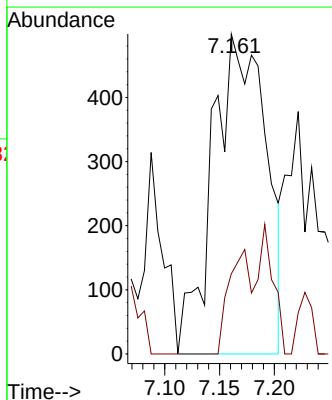
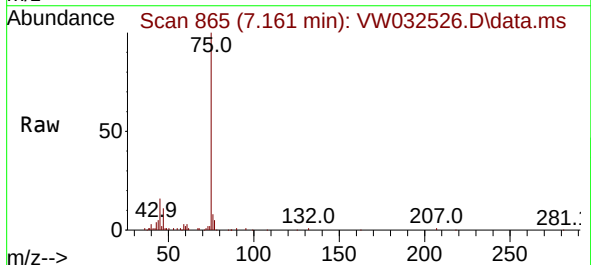
Instrument :  
MSVOA\_W  
ClientSampleId :  
MOO-25-0331

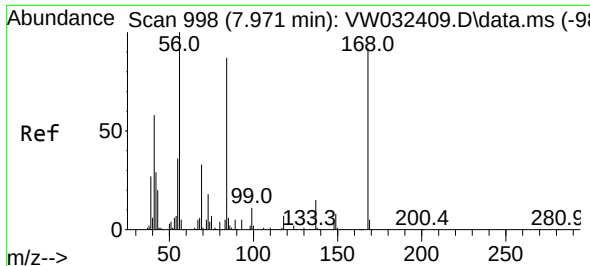
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 12055 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 122.3 | 101.5 | 152.3 |
| 51       | 39.9  | 30.6  | 46.0  |
| 86       | 62.2  | 51.9  | 77.9  |



#25  
2-Butanone  
Concen: 1.620 ug/l  
RT: 7.161 min Scan# 865  
Delta R.T. -0.030 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1686  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 25.1  | 20.0  | 30.0  |

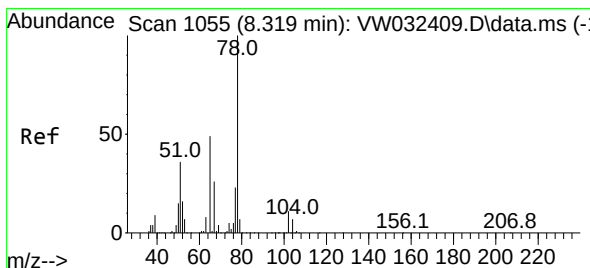
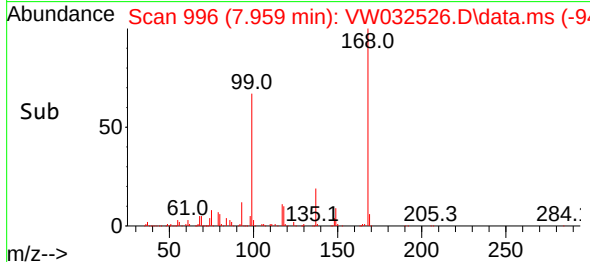
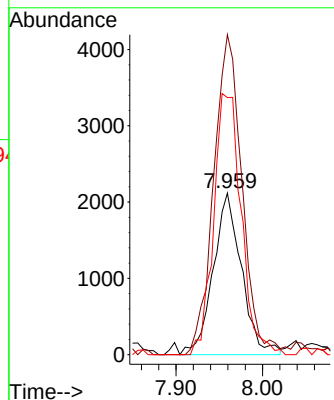
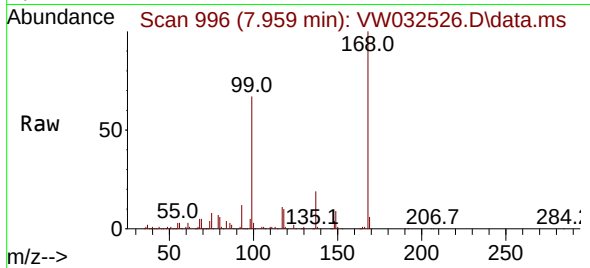




#31  
Cyclohexane  
Concen: 1.231 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.012 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

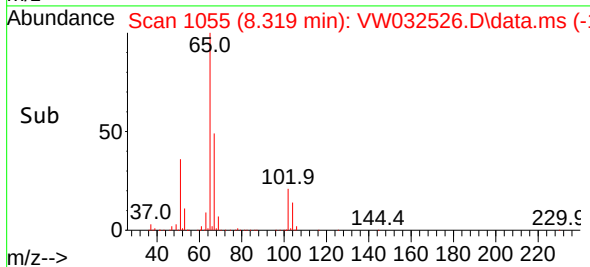
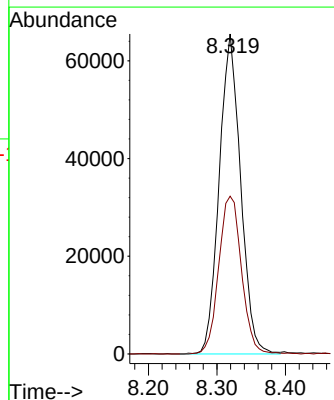
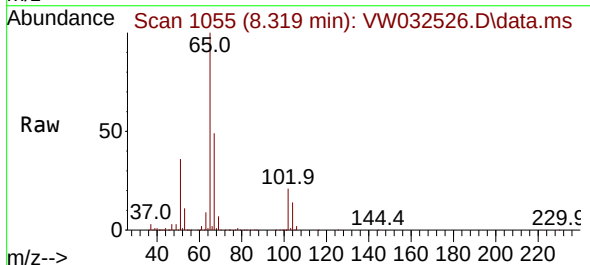
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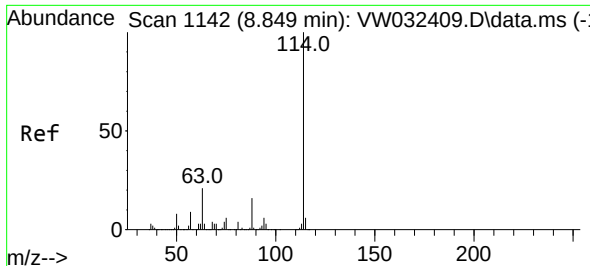
Tgt Ion: 56 Resp: 4811  
Ion Ratio Lower Upper  
56 100  
69 198.1 26.5 39.7#  
84 159.2 69.6 104.4#



#33  
1,2-Dichloroethane-d4  
Concen: 60.027 ug/l  
RT: 8.319 min Scan# 1055  
Delta R.T. 0.000 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

Tgt Ion: 65 Resp: 141756  
Ion Ratio Lower Upper  
65 100  
67 52.6 0.0 106.8

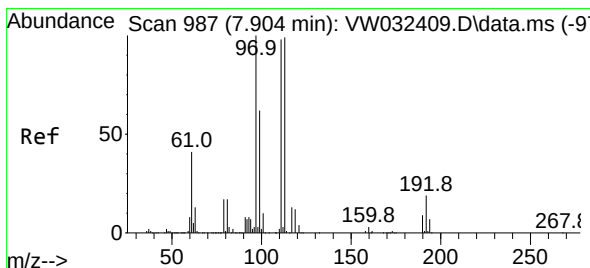
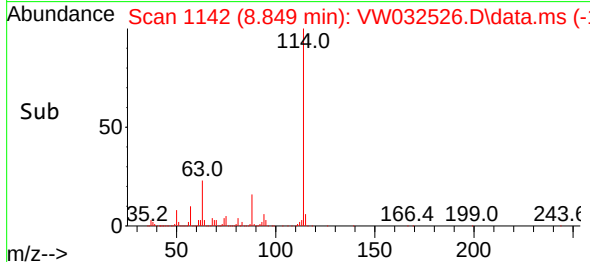
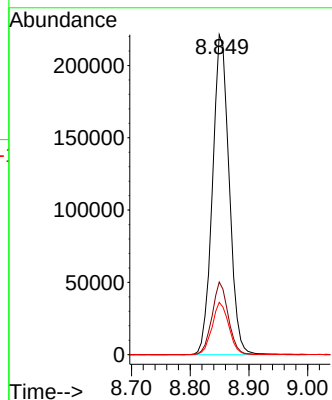
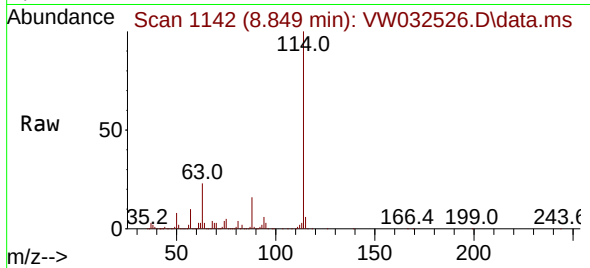




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.849 min Scan# 1142  
Delta R.T. 0.000 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

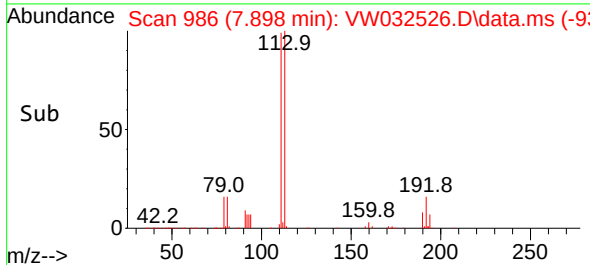
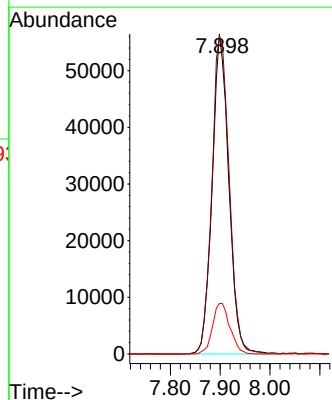
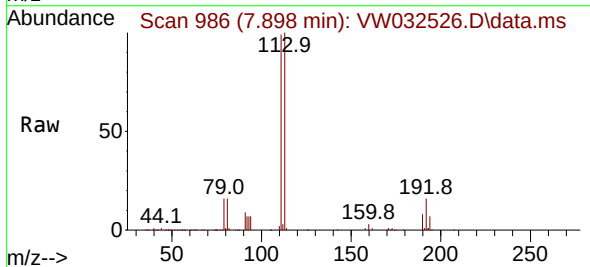
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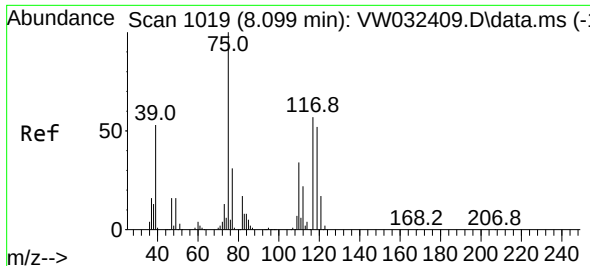
Tgt Ion:114 Resp: 435001  
Ion Ratio Lower Upper  
114 100  
63 22.7 0.0 41.8  
88 16.3 0.0 32.6



#35  
Dibromofluoromethane  
Concen: 50.154 ug/l  
RT: 7.898 min Scan# 986  
Delta R.T. -0.006 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

Tgt Ion:113 Resp: 130623  
Ion Ratio Lower Upper  
113 100  
111 104.1 83.1 124.7  
192 16.6 13.4 20.2

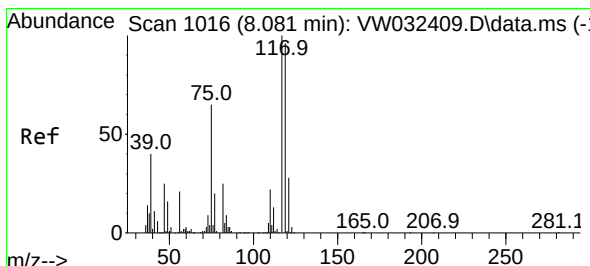
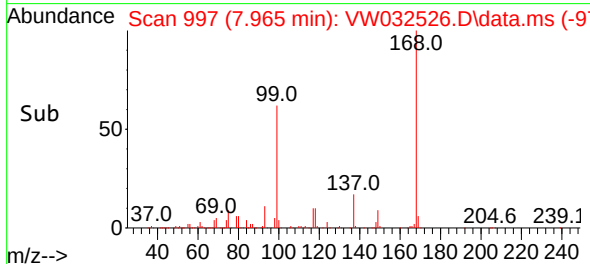
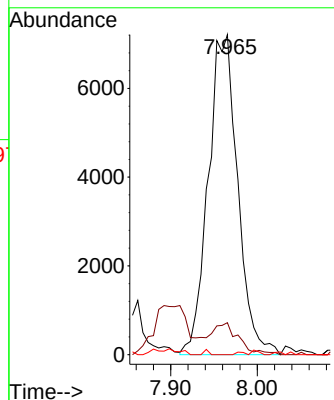
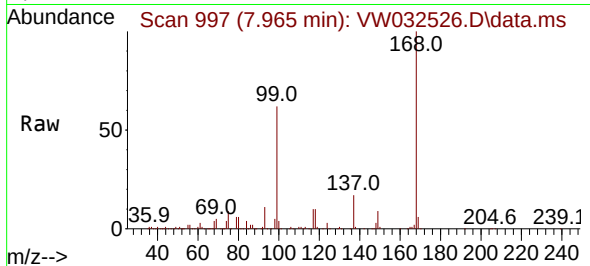




#36  
 1,1-Dichloropropene  
 Concen: 4.446 ug/l  
 RT: 7.965 min Scan# 997  
 Delta R.T. -0.134 min  
 Lab File: VW032526.D  
 Acq: 21 Nov 2025 15:16

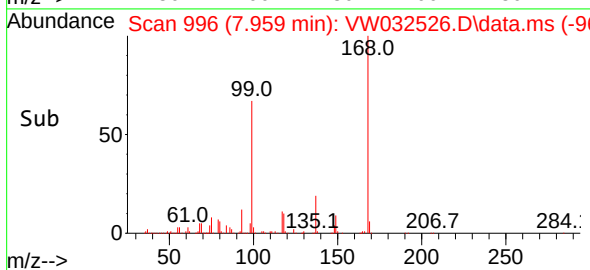
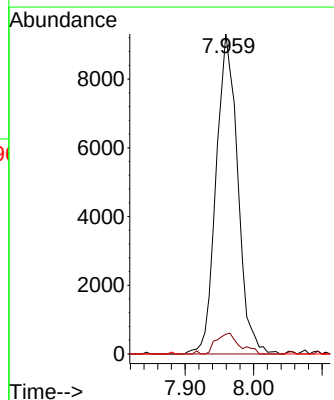
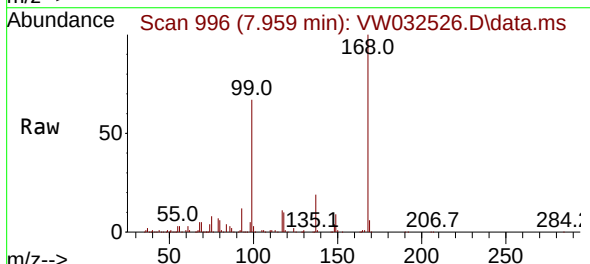
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MOO-25-0331

Tgt Ion: 75 Resp: 17061  
 Ion Ratio Lower Upper  
 75 100  
 110 8.8 17.2 51.5#  
 77 0.0 24.5 36.7#

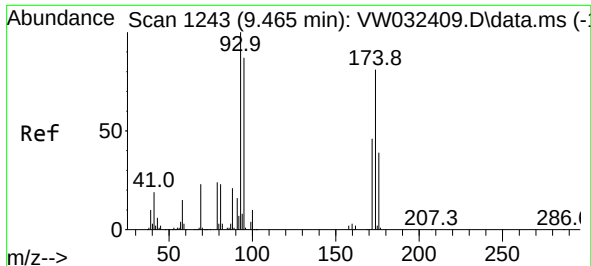


#38  
 Carbon Tetrachloride  
 Concen: 5.981 ug/l  
 RT: 7.959 min Scan# 996  
 Delta R.T. -0.122 min  
 Lab File: VW032526.D  
 Acq: 21 Nov 2025 15:16

Tgt Ion: 117 Resp: 20392  
 Ion Ratio Lower Upper  
 117 100  
 119 6.2 77.0 115.4#  
 121 0.0 22.0 33.0#







#49

1,4-Dioxane

Concen: 1.469 ug/l

RT: 9.465 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW032526.D

Acq: 21 Nov 2025 15:16

Instrument :

MSVOA\_W

ClientSampleId :

MOO-25-0331

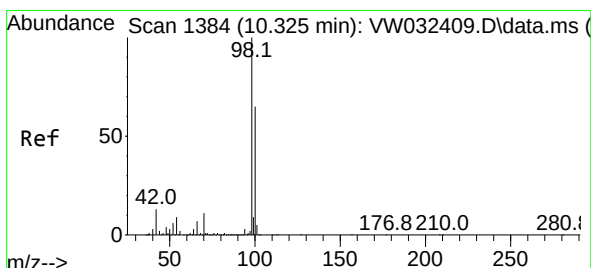
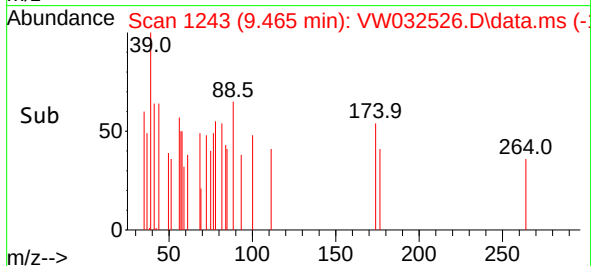
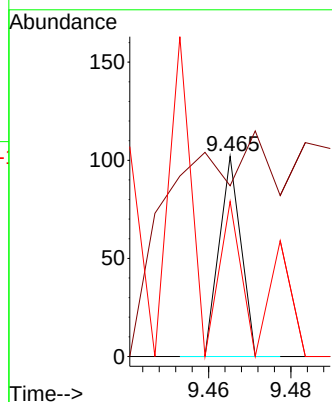
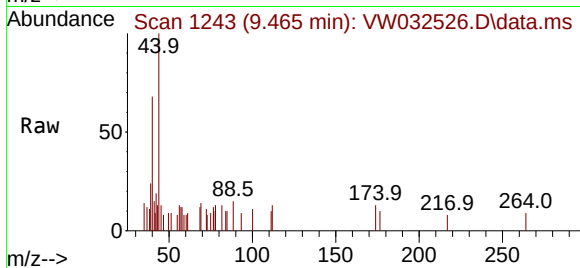
Tgt Ion: 88 Resp: 37

Ion Ratio Lower Upper

88 100

43 351.4 0.0 0.0#

58 297.3 63.0 94.4#



#50

Toluene-d8

Concen: 41.620 ug/l

RT: 10.325 min Scan# 1384

Delta R.T. 0.000 min

Lab File: VW032526.D

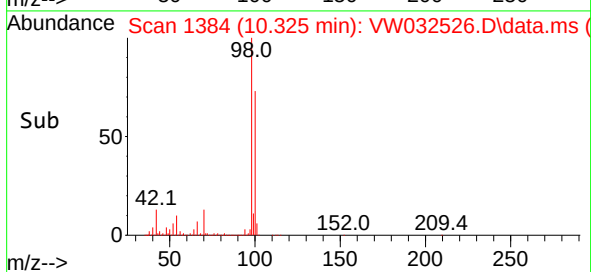
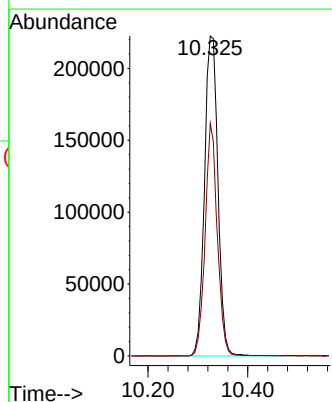
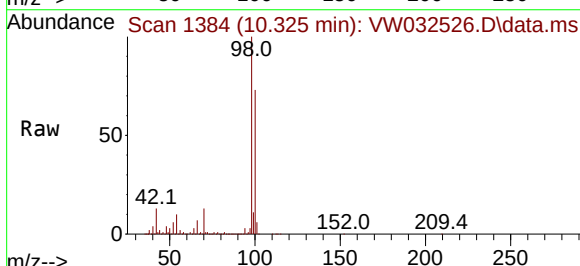
Acq: 21 Nov 2025 15:16

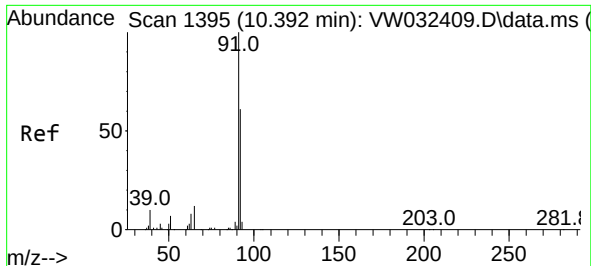
Tgt Ion: 98 Resp: 415850

Ion Ratio Lower Upper

98 100

100 65.8 53.3 79.9

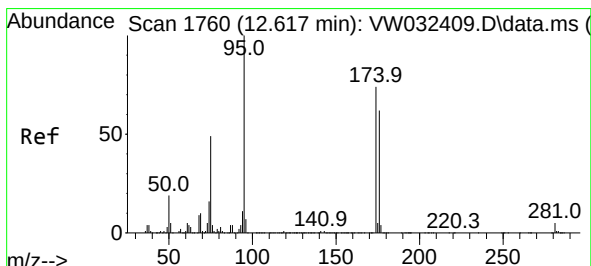
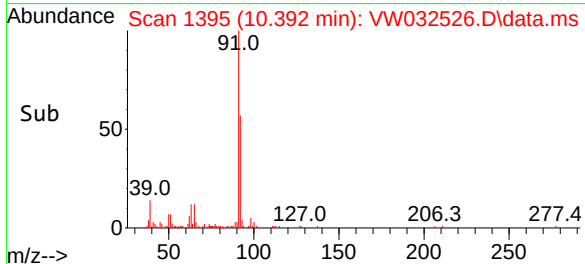
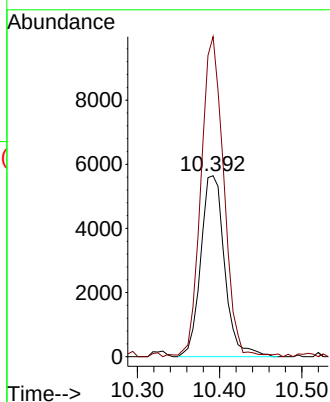
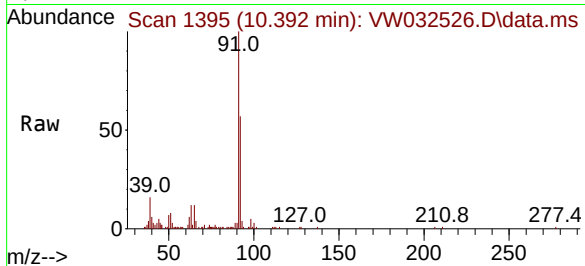




#52  
Toluene  
Concen: 1.493 ug/l  
RT: 10.392 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

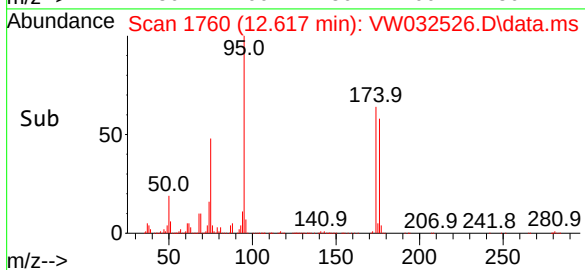
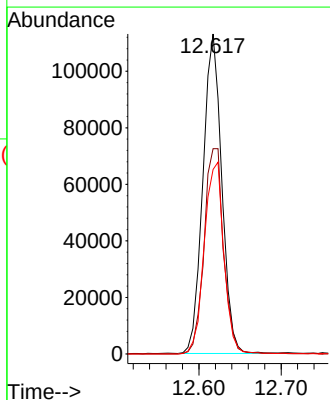
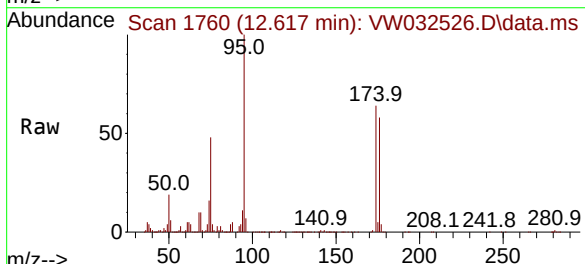
Instrument :  
MSVOA\_W  
ClientSampleId :  
MOO-25-0331

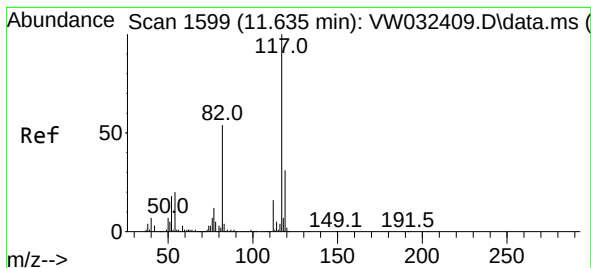
Tgt Ion: 92 Resp: 11398  
Ion Ratio Lower Upper  
92 100  
91 168.3 136.6 205.0



#62  
4-Bromofluorobenzene  
Concen: 47.660 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. 0.000 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

Tgt Ion: 95 Resp: 179889  
Ion Ratio Lower Upper  
95 100  
174 66.8 0.0 135.4  
176 62.5 0.0 131.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.629 min Scan# 1598

Delta R.T. -0.006 min

Lab File: VW032526.D

Acq: 21 Nov 2025 15:16

Instrument :

MSVOA\_W

ClientSampleId :

MOO-25-0331

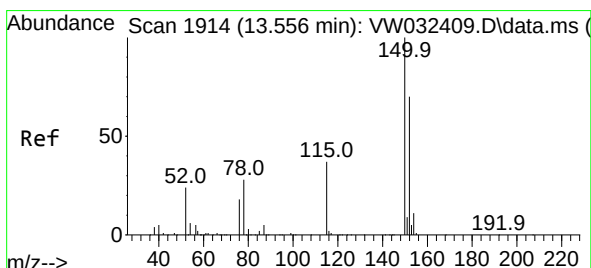
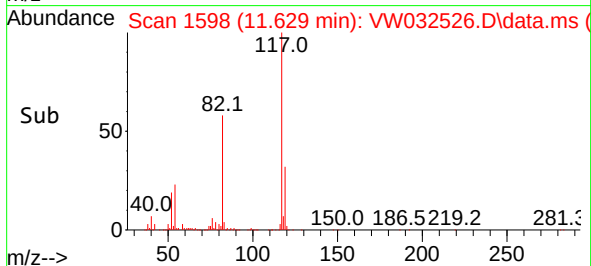
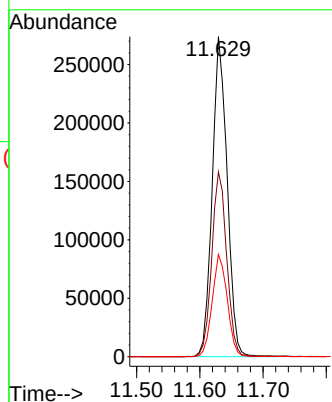
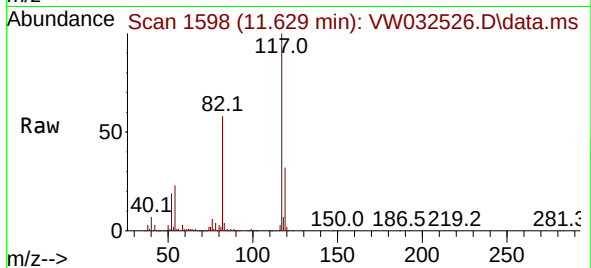
Tgt Ion:117 Resp: 448040

Ion Ratio Lower Upper

117 100

82 57.7 43.0 64.4

119 31.9 25.0 37.6



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.556 min Scan# 1914

Delta R.T. 0.000 min

Lab File: VW032526.D

Acq: 21 Nov 2025 15:16

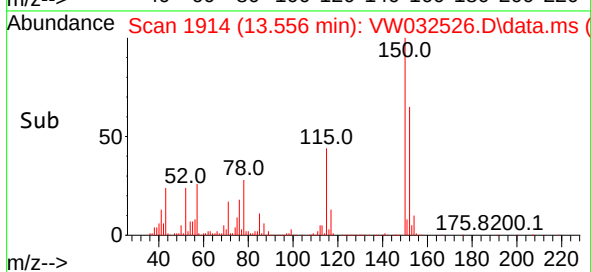
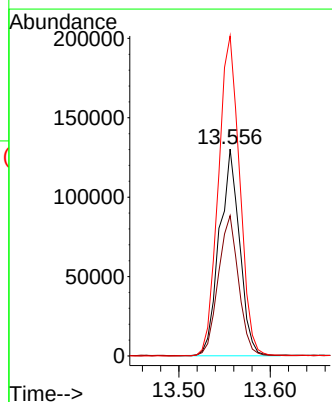
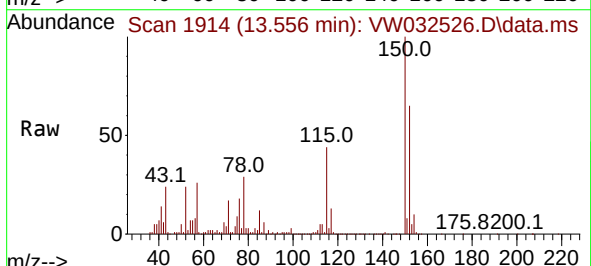
Tgt Ion:152 Resp: 200363

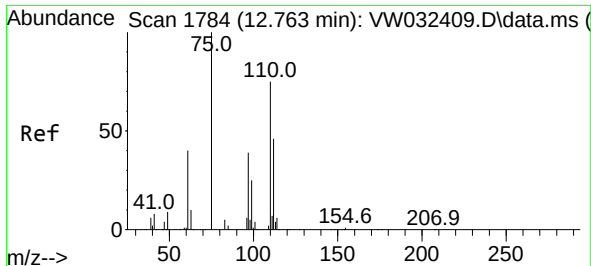
Ion Ratio Lower Upper

152 100

115 68.0 32.8 98.3

150 163.7 0.0 356.6

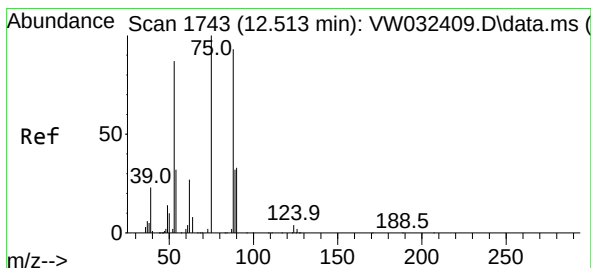
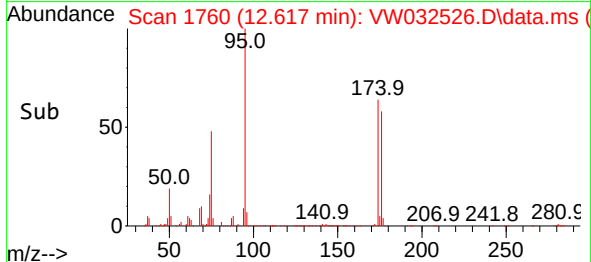
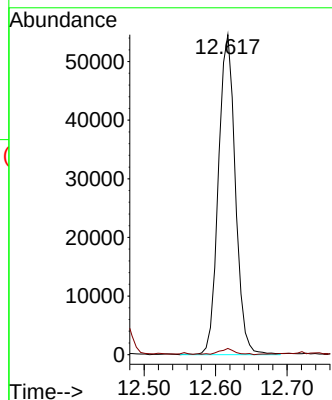
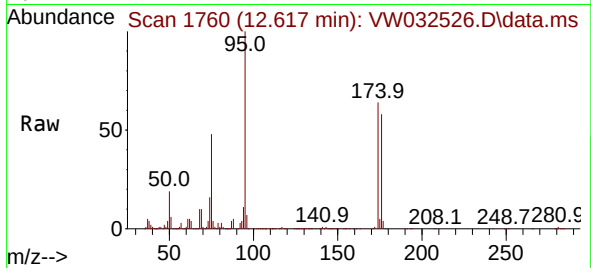




#76  
1,2,3-Trichloropropane  
Concen: 32.726 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. -0.146 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

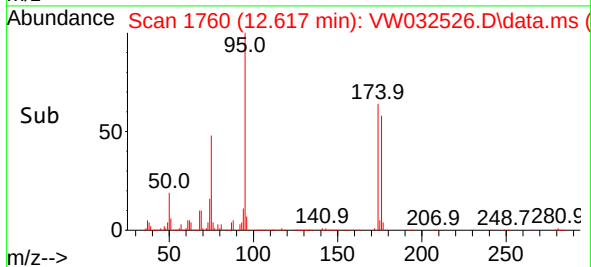
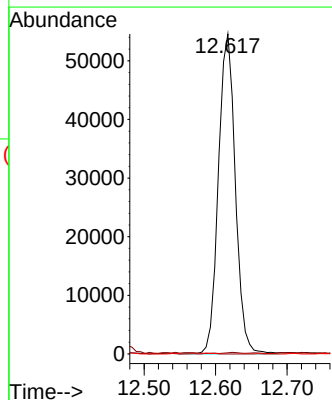
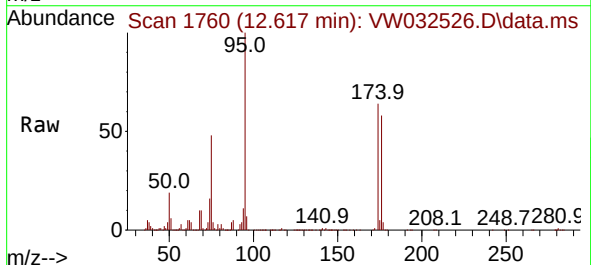
Instrument :  
MSVOA\_W  
ClientSampleId :  
MOO-25-0331

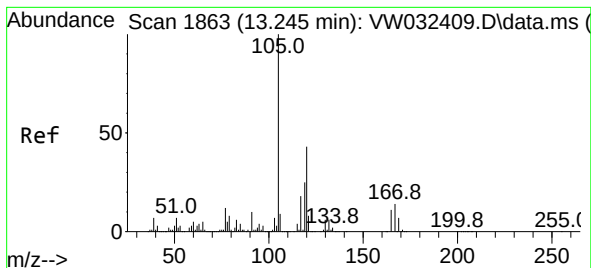
Tgt Ion: 75 Resp: 89909  
Ion Ratio Lower Upper  
75 100  
77 1.9 151.6 454.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 74.957 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. 0.104 min  
Lab File: VW032526.D  
Acq: 21 Nov 2025 15:16

Tgt Ion: 75 Resp: 89909  
Ion Ratio Lower Upper  
75 100  
53 0.2 77.8 116.8#  
89 0.0 35.6 53.4#





#84

1,2,4-Trimethylbenzene

Concen: 1.386 ug/l

RT: 13.245 min Scan# 11

Delta R.T. 0.000 min

Lab File: VW032526.D

Acq: 21 Nov 2025 15:16

Instrument :

MSVOA\_W

ClientSampleId :

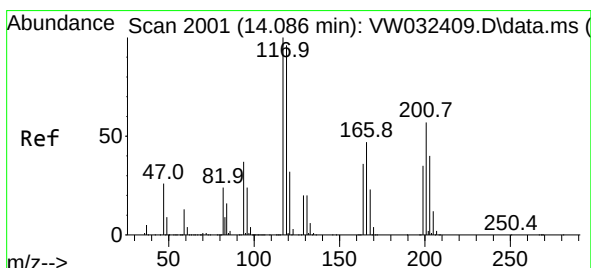
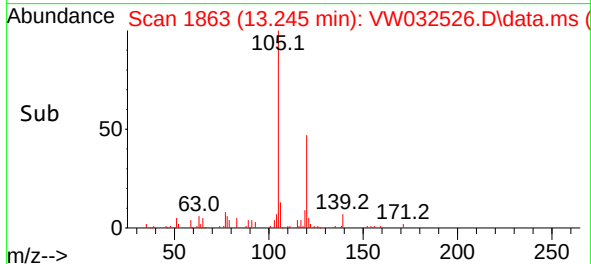
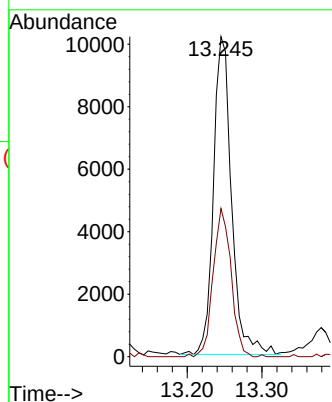
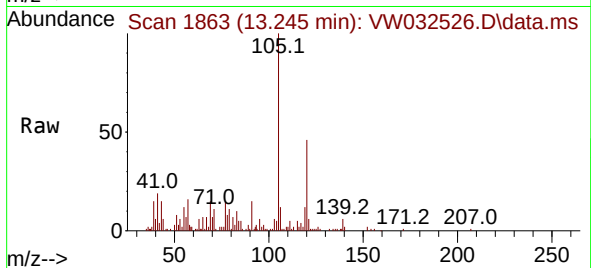
MOO-25-0331

Tgt Ion:105 Resp: 17115

Ion Ratio Lower Upper

105 100

120 46.2 22.1 66.5



#90

Hexachloroethane

Concen: 1.485 ug/l

RT: 14.092 min Scan# 2002

Delta R.T. 0.006 min

Lab File: VW032526.D

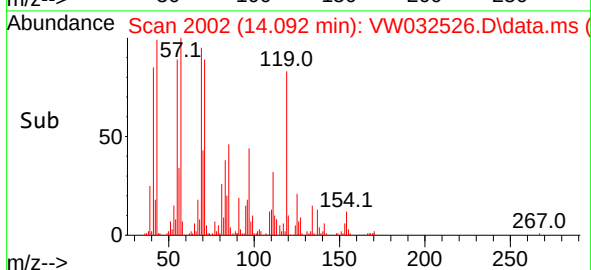
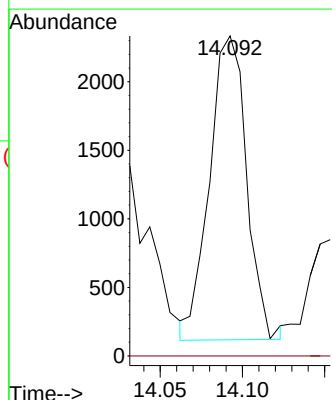
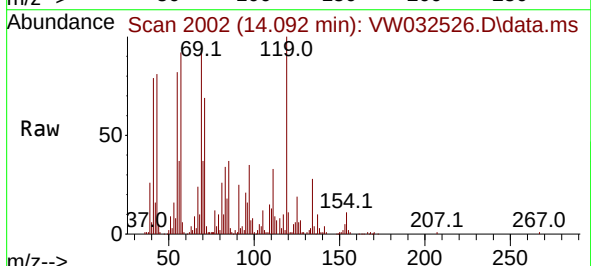
Acq: 21 Nov 2025 15:16

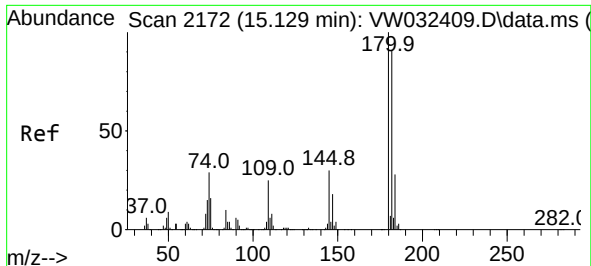
Tgt Ion:117 Resp: 3477

Ion Ratio Lower Upper

117 100

201 0.0 32.0 96.0#





#93

1,2,4-Trichlorobenzene

Concen: 2.243 ug/l

RT: 15.129 min Scan# 2172

Delta R.T. 0.000 min

Lab File: VW032526.D

Acq: 21 Nov 2025 15:16

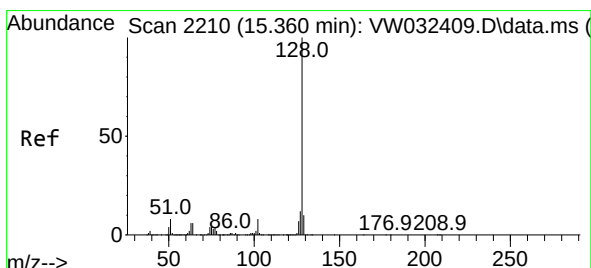
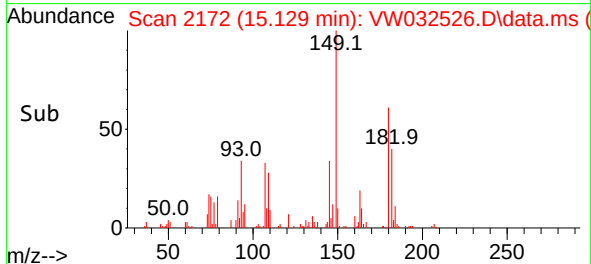
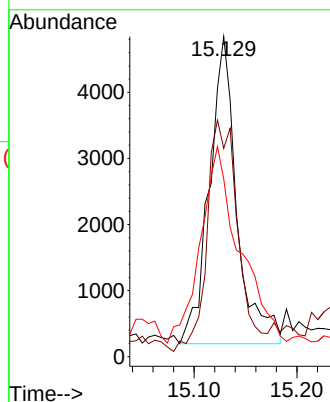
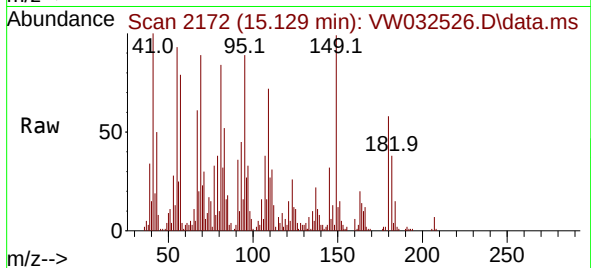
Instrument :

MSVOA\_W

ClientSampleId :

MOO-25-0331

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:180 | Resp: | 8657       |
| Ion Ratio   | Lower | Upper      |
| 180         | 100   |            |
| 182         | 84.3  | 45.3 135.9 |
| 145         | 93.3  | 16.2 48.5# |



#95

Naphthalene

Concen: 4.625 ug/l

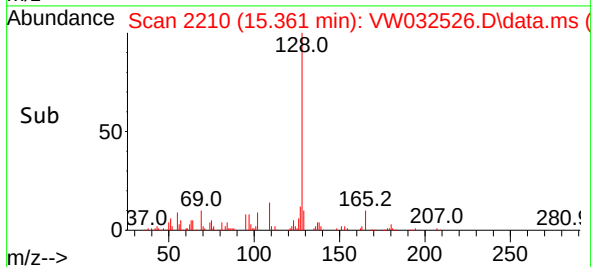
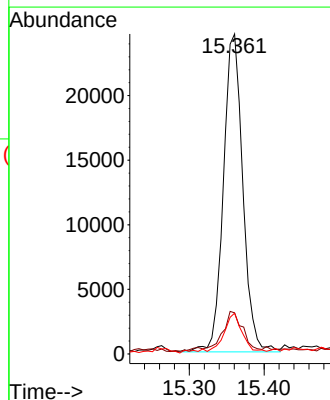
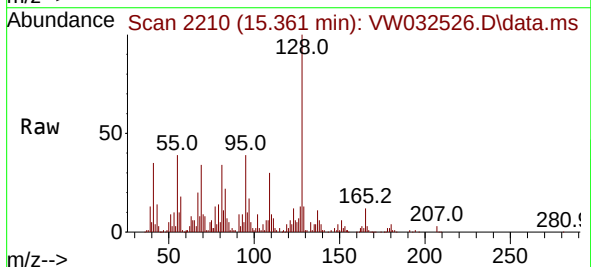
RT: 15.361 min Scan# 2210

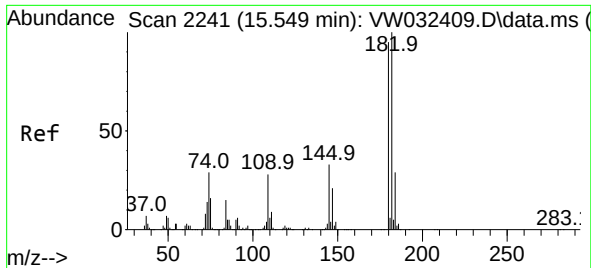
Delta R.T. 0.000 min

Lab File: VW032526.D

Acq: 21 Nov 2025 15:16

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 44511     |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 127         | 14.0  | 10.2 15.4 |
| 129         | 12.9  | 8.6 12.8# |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.131 ug/l  
 RT: 15.562 min Scan# 21  
 Delta R.T. 0.012 min  
 Lab File: VW032526.D  
 Acq: 21 Nov 2025 15:16

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 MOO-25-0331

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 180     | 100   |       |       |
| 182     | 71.0  | 50.3  | 151.0 |
| 145     | 45.2  | 17.8  | 53.3  |

