

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_W\Data\VW092425\  
 Data File : VW032247.D  
 Acq On : 24 Sep 2025 16:30  
 Operator : SY/MD  
 Sample : Q3176-03  
 Misc : 4.54g/5mL/MSVOA\_W/SOIL/A  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EME-TS14-02

Quant Time: Sep 25 08:15:22 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

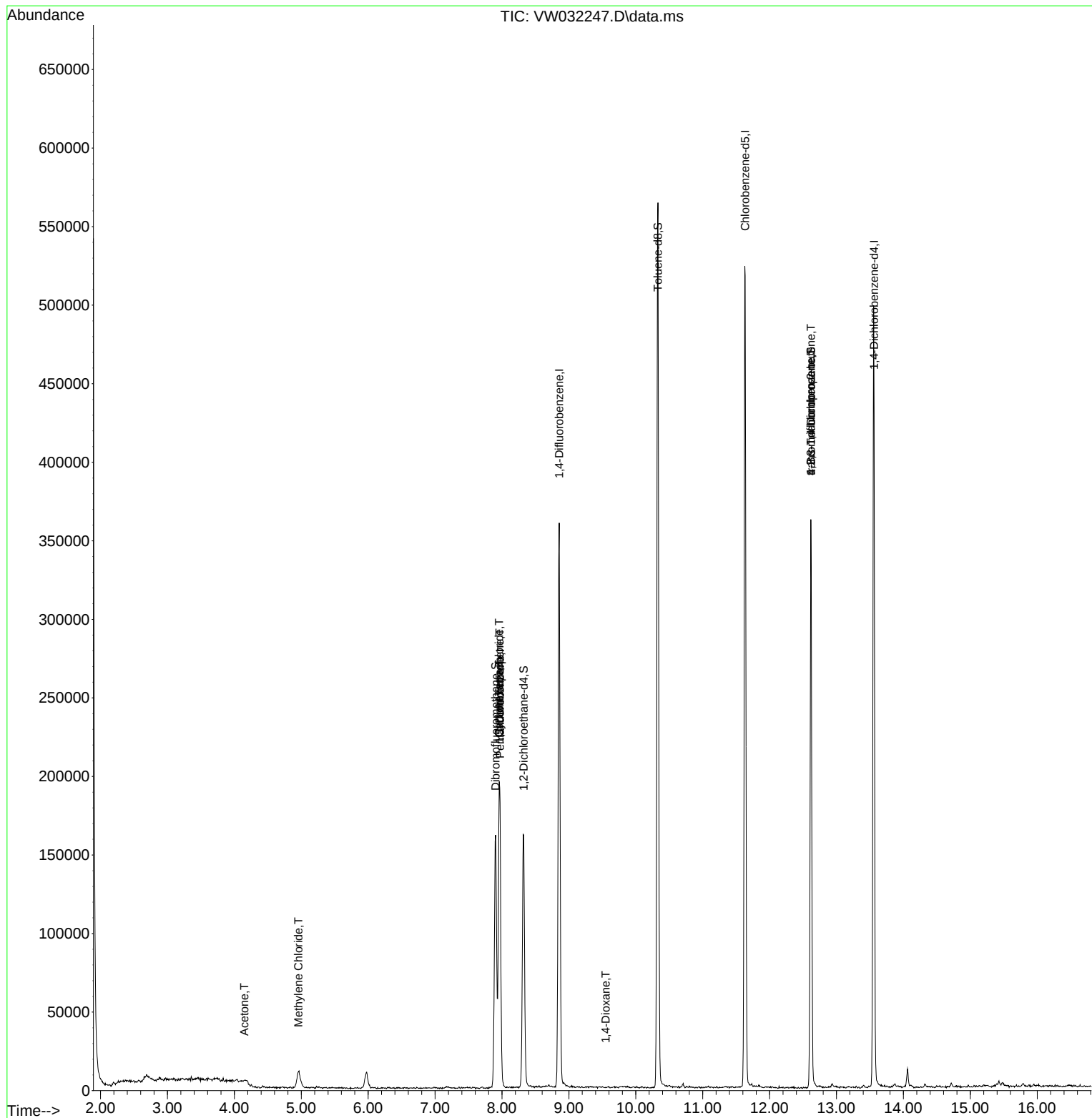
| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.971     | 168   | 139143   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.855     | 114   | 296657   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.635    | 117   | 285057   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.562    | 152   | 124449   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.325     | 65    | 135312   | 67.998   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 63 - 155 | Recovery | = 136.000% |          |
| 35) Dibromofluoromethane      | 7.904     | 113   | 115476   | 55.482   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 70 - 134 | Recovery | = 110.960% |          |
| 50) Toluene-d8                | 10.331    | 98    | 370641   | 50.728   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 74 - 123 | Recovery | = 101.460% |          |
| 62) 4-Bromofluorobenzene      | 12.617    | 95    | 112401   | 41.602   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 17 - 146 | Recovery | = 83.200%  |          |
| Target Compounds              |           |       |          |          |            |          |
|                               |           |       |          |          | Qvalue     |          |
| 16) Acetone                   | 4.149     | 43    | 794      | 1.842    | ug/l       | 96       |
| 20) Methylene Chloride        | 4.960     | 84    | 10047    | 2.094    | ug/l #     | 94       |
| 31) Cyclohexane               | 7.959     | 56    | 4024     | 1.647    | ug/l #     | 11       |
| 36) 1,1-Dichloropropene       | 7.965     | 75    | 13025    | 4.827    | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 7.959     | 117   | 16560    | 5.724    | ug/l #     | 17       |
| 49) 1,4-Dioxane               | 9.550     | 88    | 21       | 1.232    | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 12.617    | 75    | 62251    | 39.928   | ug/l #     | 1        |
| 81) trans-1,4-Dichloro-2-b... | 12.617    | 75    | 62251    | 107.504  | ug/l #     | 5        |
| -----                         |           |       |          |          |            |          |

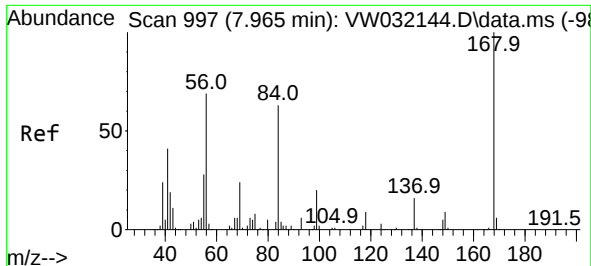
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Aug 27 04:13:40 2025  
Response via : Initial Calibration

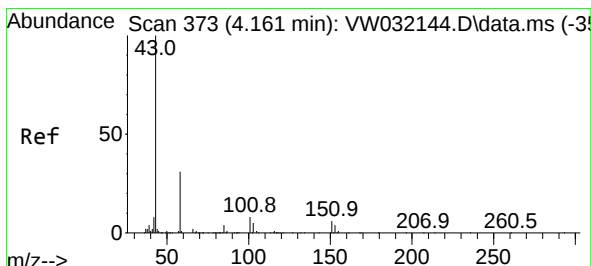
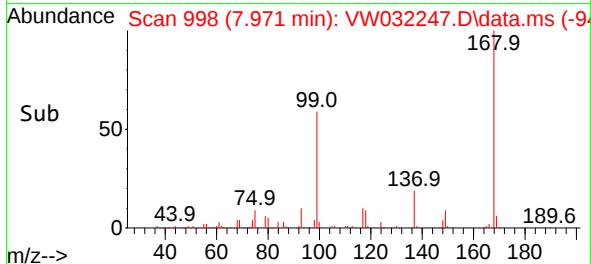
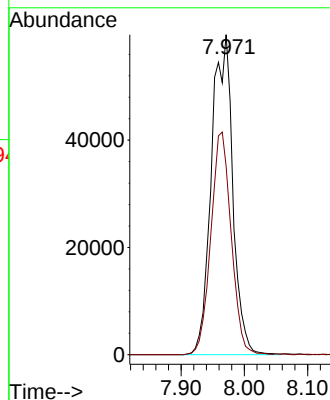
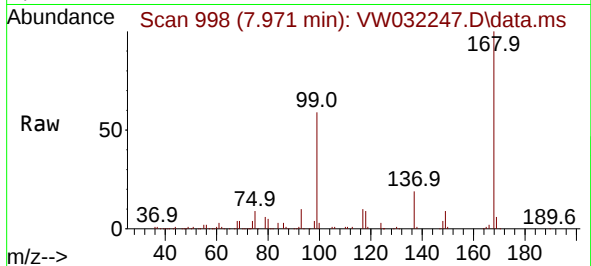




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.971 min Scan# 997  
Delta R.T. 0.006 min  
Lab File: VW032247.D  
Acq: 24 Sep 2025 16:30

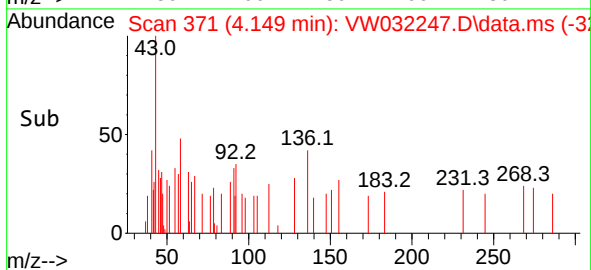
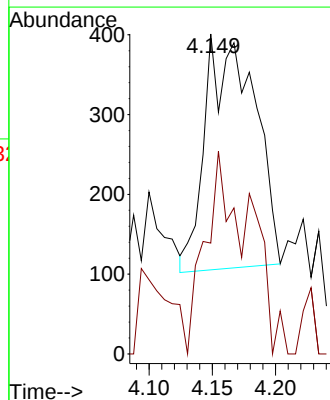
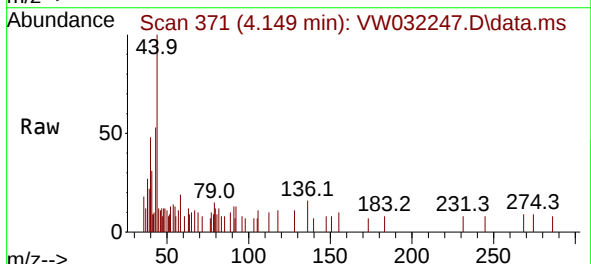
Instrument :  
MSVOA\_W  
ClientSampleId :  
EME-TS14-02

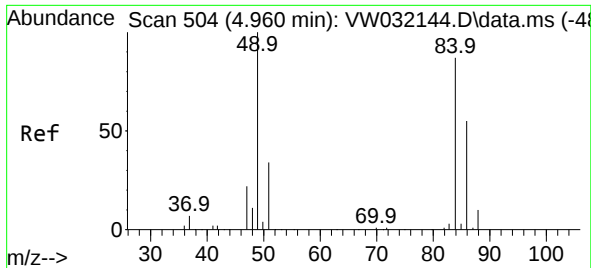
Tgt Ion:168 Resp: 139143  
Ion Ratio Lower Upper  
168 100  
99 58.9 49.3 73.9



#16  
Acetone  
Concen: 1.842 ug/l  
RT: 4.149 min Scan# 371  
Delta R.T. -0.012 min  
Lab File: VW032247.D  
Acq: 24 Sep 2025 16:30

Tgt Ion: 43 Resp: 794  
Ion Ratio Lower Upper  
43 100  
58 29.5 25.3 37.9

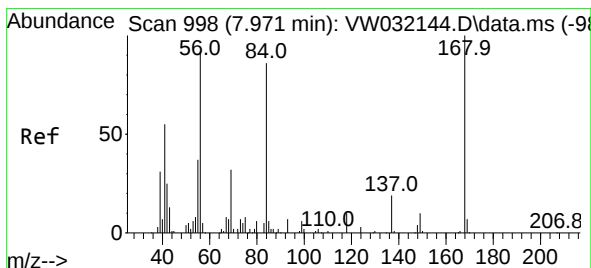
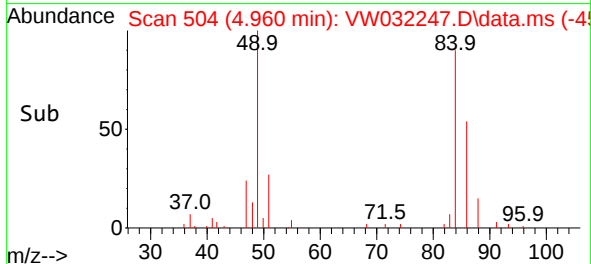
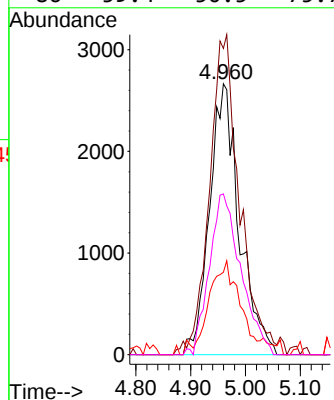
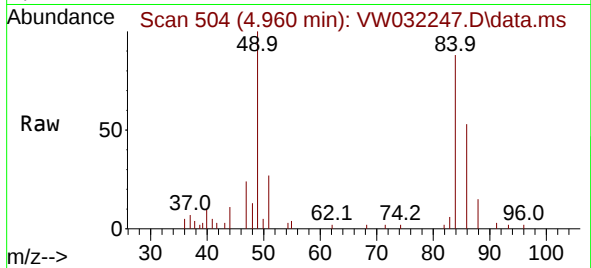




#20  
Methylene Chloride  
Concen: 2.094 ug/l  
RT: 4.960 min Scan# 504  
Delta R.T. -0.000 min  
Lab File: VW032247.D  
Acq: 24 Sep 2025 16:30

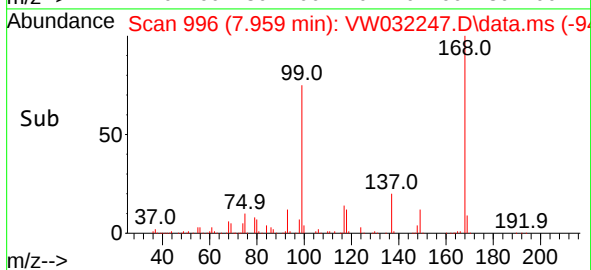
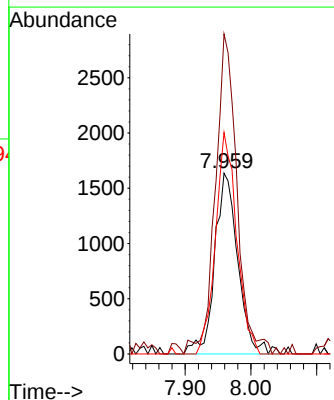
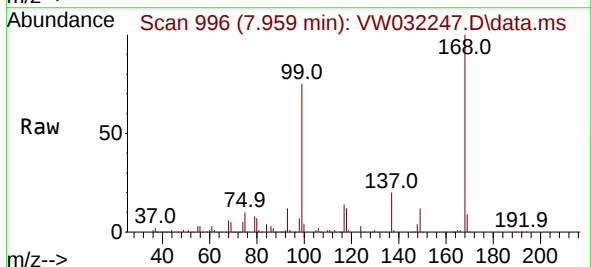
Instrument :  
MSVOA\_W  
ClientSampleId :  
EME-TS14-02

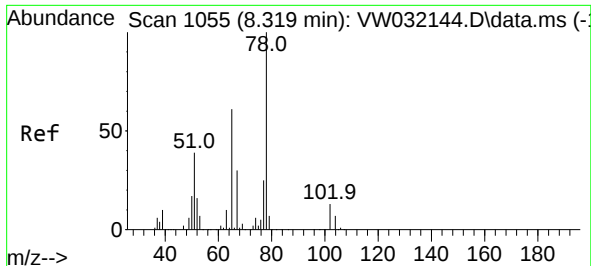
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 10047 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 110.9 | 92.2  | 138.4 |
| 51       | 30.4  | 31.0  | 46.6# |
| 86       | 59.4  | 50.5  | 75.7  |



#31  
Cyclohexane  
Concen: 1.647 ug/l  
RT: 7.959 min Scan# 996  
Delta R.T. -0.012 min  
Lab File: VW032247.D  
Acq: 24 Sep 2025 16:30

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 4024   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 177.0 | 27.7  | 41.5#  |
| 84       | 122.5 | 74.6  | 112.0# |





#33

1,2-Dichloroethane-d4

Concen: 67.998 ug/l

RT: 8.325 min Scan# 1055

Delta R.T. 0.006 min

Lab File: VW032247.D

Acq: 24 Sep 2025 16:30

Instrument :

MSVOA\_W

ClientSampleId :

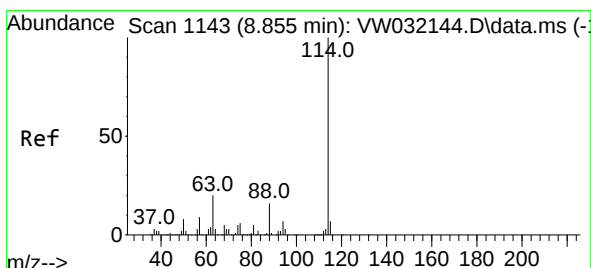
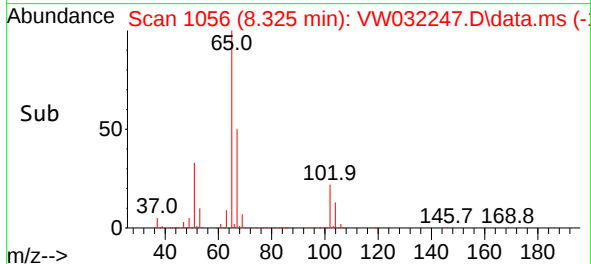
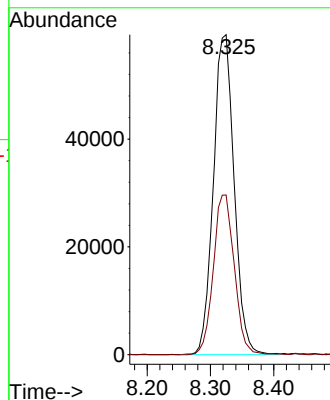
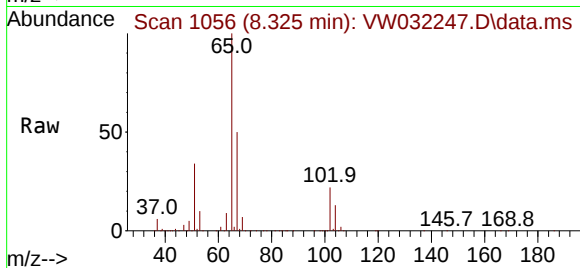
EME-TS14-02

Tgt Ion: 65 Resp: 135312

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: VW032247.D

Acq: 24 Sep 2025 16:30

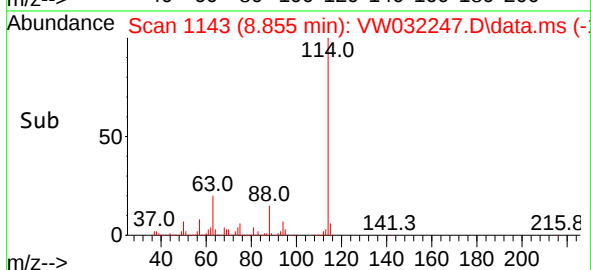
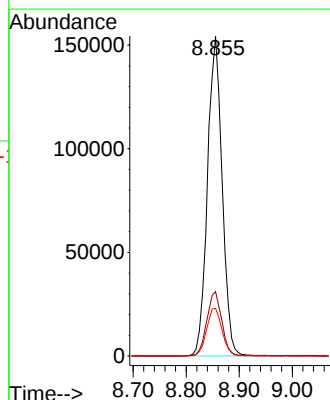
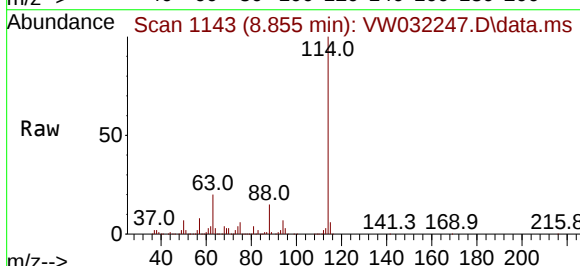
Tgt Ion: 114 Resp: 296657

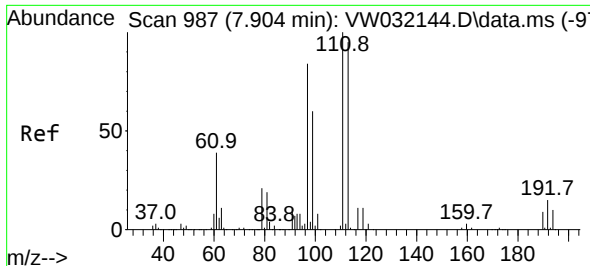
Ion Ratio Lower Upper

114 100

63 20.1 0.0 40.4

88 14.9 0.0 32.0

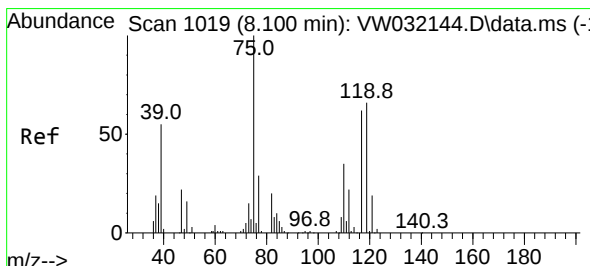
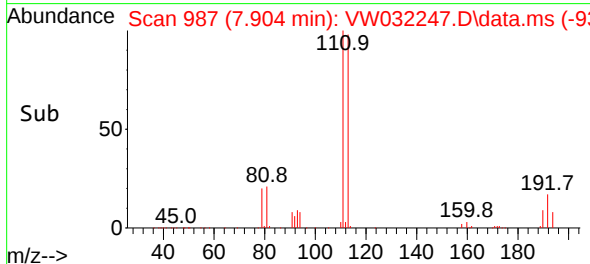
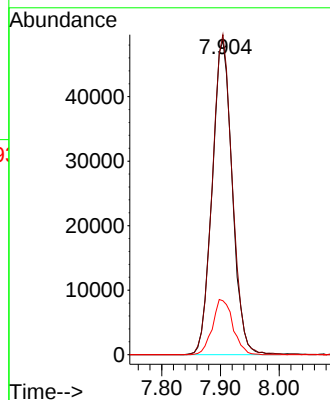
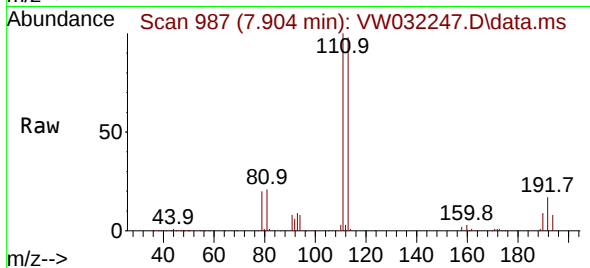




#35  
 Dibromofluoromethane  
 Concen: 55.482 ug/l  
 RT: 7.904 min Scan# 997  
 Delta R.T. -0.000 min  
 Lab File: VW032247.D  
 Acq: 24 Sep 2025 16:30

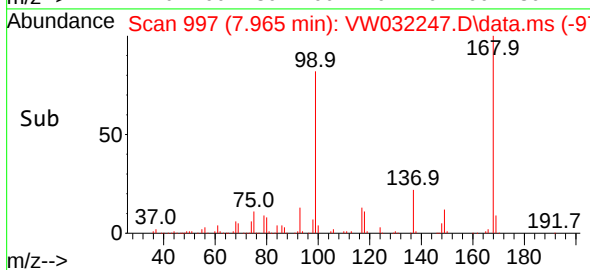
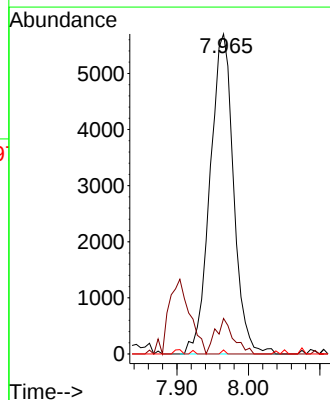
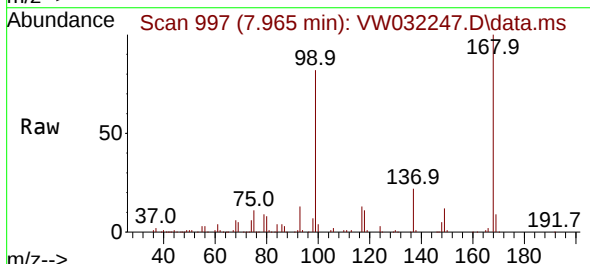
Instrument :  
 MSVOA\_W  
 ClientSampleId :  
 EME-TS14-02

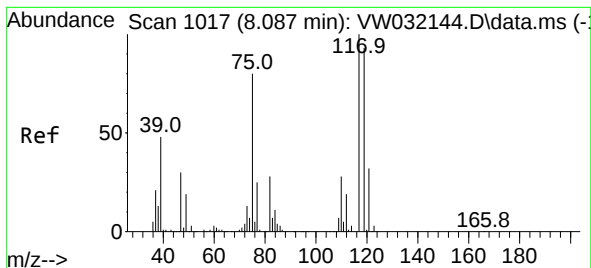
Tgt Ion:113 Resp: 115476  
 Ion Ratio Lower Upper  
 113 100  
 111 101.3 83.9 125.9  
 192 17.8 14.6 21.8



#36  
 1,1-Dichloropropene  
 Concen: 4.827 ug/l  
 RT: 7.965 min Scan# 997  
 Delta R.T. -0.134 min  
 Lab File: VW032247.D  
 Acq: 24 Sep 2025 16:30

Tgt Ion: 75 Resp: 13025  
 Ion Ratio Lower Upper  
 75 100  
 110 8.4 17.5 52.5#  
 77 0.2 24.1 36.1#





#38

Carbon Tetrachloride

Concen: 5.724 ug/l

RT: 7.959 min Scan# 996

Delta R.T. -0.128 min

Lab File: VW032247.D

Acq: 24 Sep 2025 16:30

Instrument :

MSVOA\_W

ClientSampleId :

EME-TS14-02

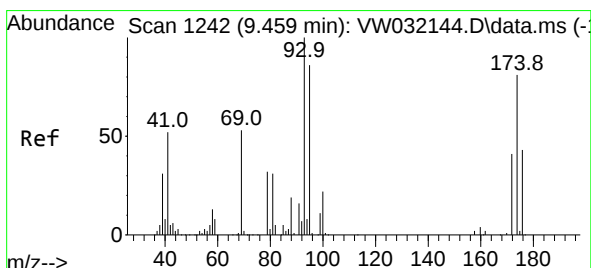
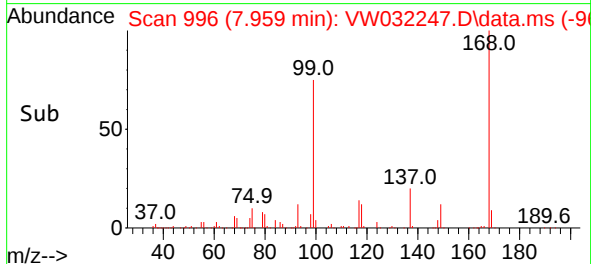
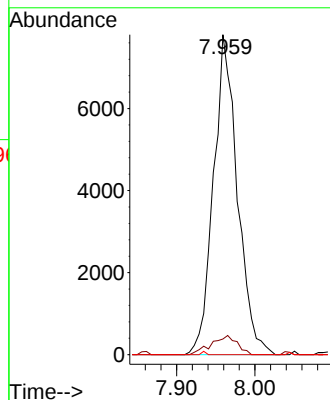
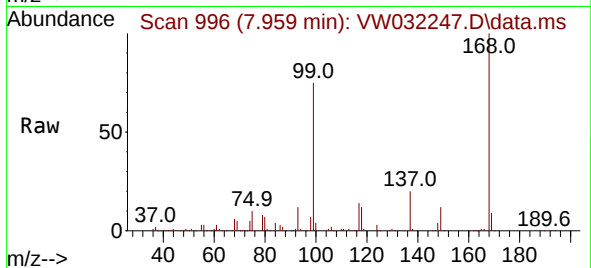
Tgt Ion:117 Resp: 16560

Ion Ratio Lower Upper

117 100

119 4.9 74.2 111.2#

121 0.0 25.6 38.4#



#49

1,4-Dioxane

Concen: 1.232 ug/l

RT: 9.550 min Scan# 1257

Delta R.T. 0.091 min

Lab File: VW032247.D

Acq: 24 Sep 2025 16:30

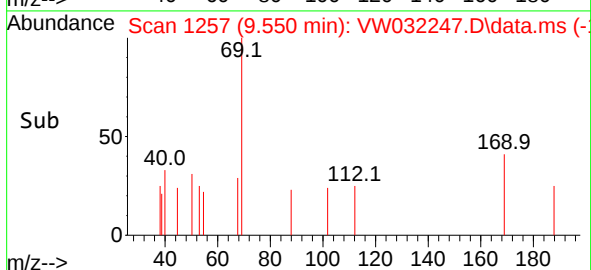
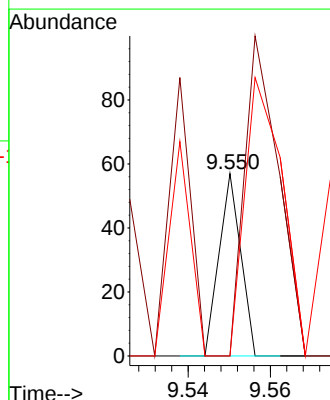
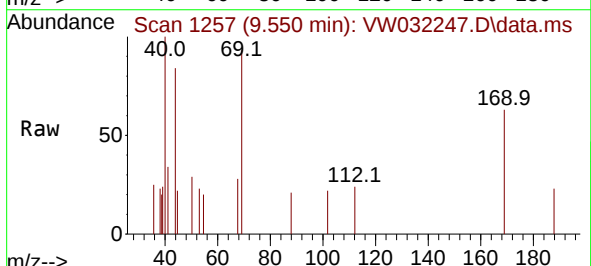
Tgt Ion: 88 Resp: 21

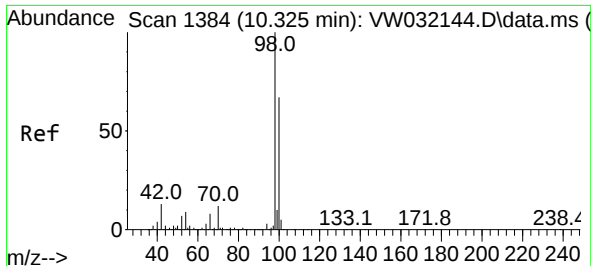
Ion Ratio Lower Upper

88 100

43 271.4 18.0 27.0#

58 261.9 55.4 83.0#

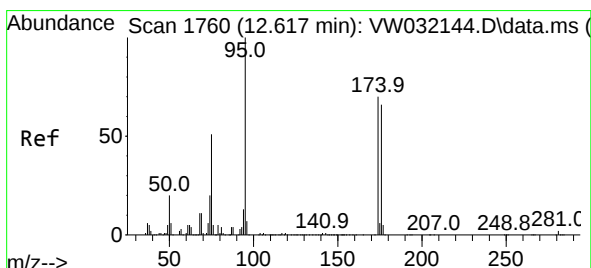
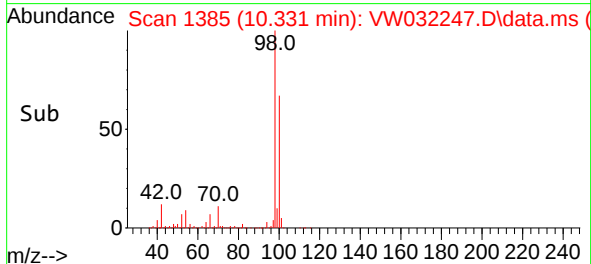
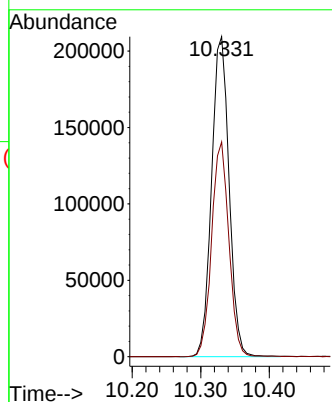
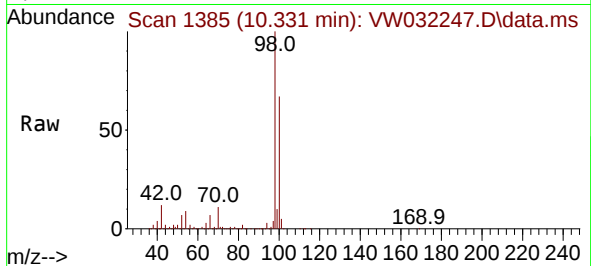




#50  
Toluene-d8  
Concen: 50.728 ug/l  
RT: 10.331 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VW032247.D  
Acq: 24 Sep 2025 16:30

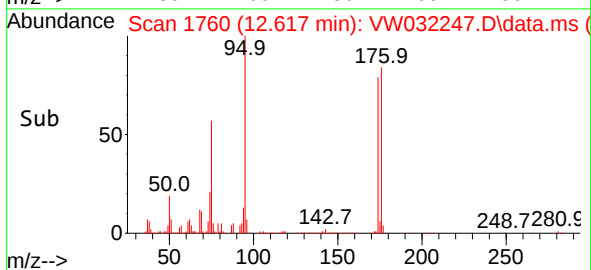
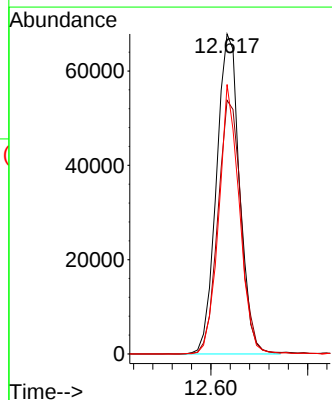
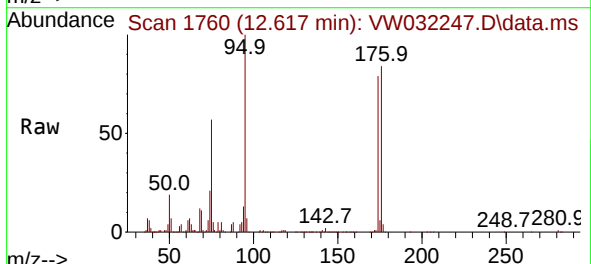
Instrument :  
MSVOA\_W  
ClientSampleId :  
EME-TS14-02

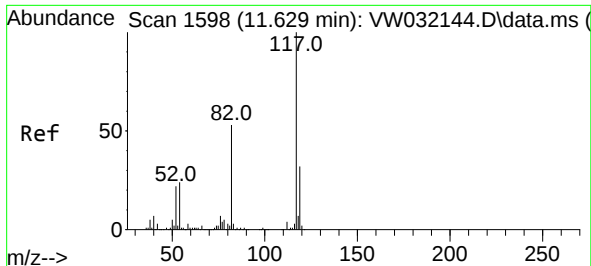
Tgt Ion: 98 Resp: 370641  
Ion Ratio Lower Upper  
98 100  
100 66.2 51.4 77.2



#62  
4-Bromofluorobenzene  
Concen: 41.602 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. -0.000 min  
Lab File: VW032247.D  
Acq: 24 Sep 2025 16:30

Tgt Ion: 95 Resp: 112401  
Ion Ratio Lower Upper  
95 100  
174 79.8 0.0 145.6  
176 75.1 0.0 140.8

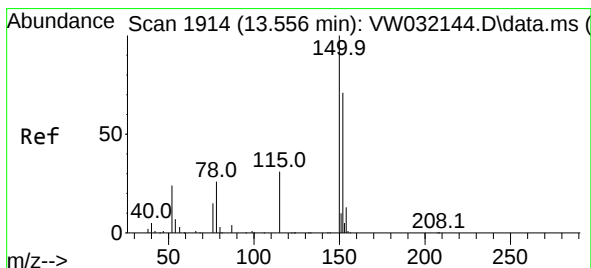
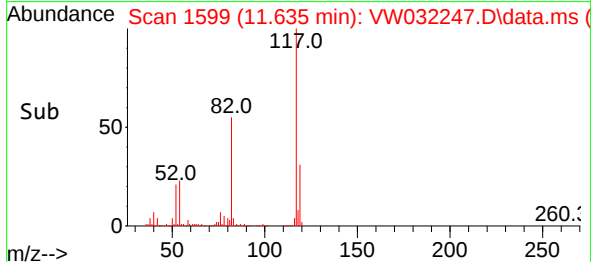
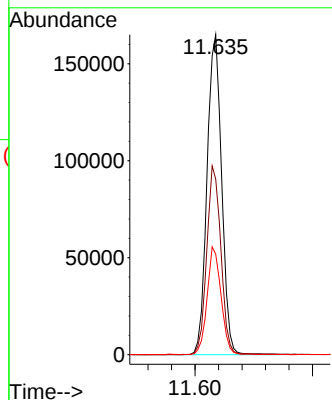
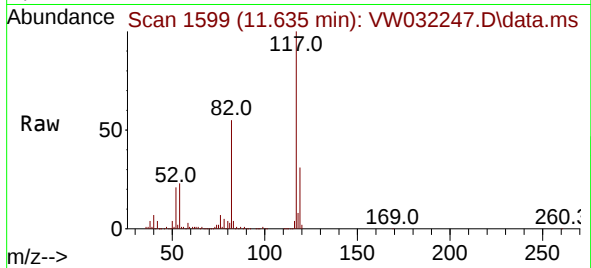




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.635 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VW032247.D  
Acq: 24 Sep 2025 16:30

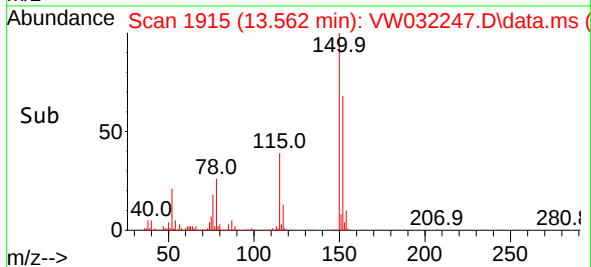
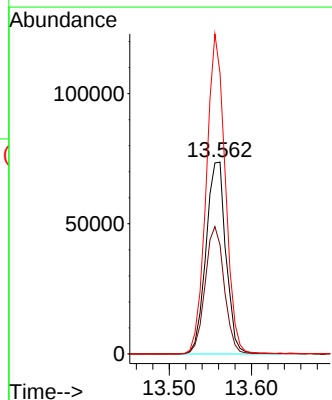
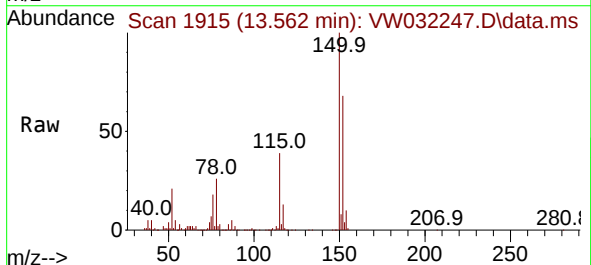
Instrument :  
MSVOA\_W  
ClientSampleId :  
EME-TS14-02

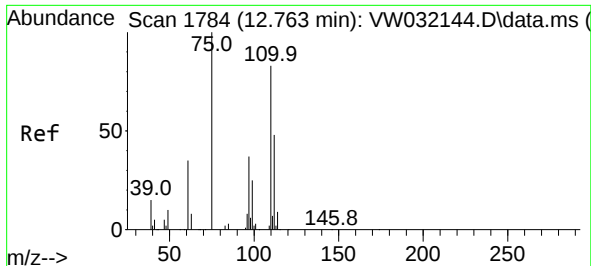
Tgt Ion:117 Resp: 285057  
Ion Ratio Lower Upper  
117 100  
82 54.8 42.7 64.1  
119 31.4 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.562 min Scan# 1915  
Delta R.T. 0.006 min  
Lab File: VW032247.D  
Acq: 24 Sep 2025 16:30

Tgt Ion:152 Resp: 124449  
Ion Ratio Lower Upper  
152 100  
115 63.9 31.8 95.4  
150 158.2 0.0 343.0

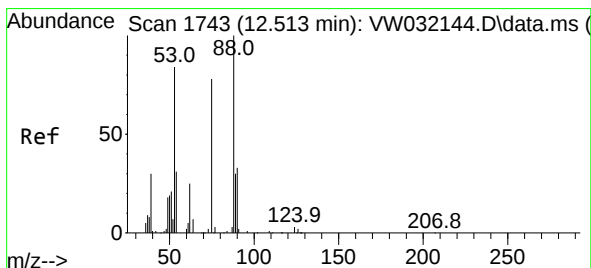
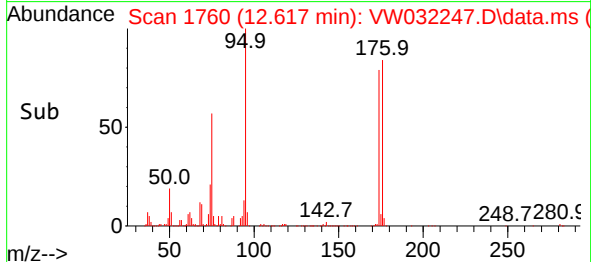
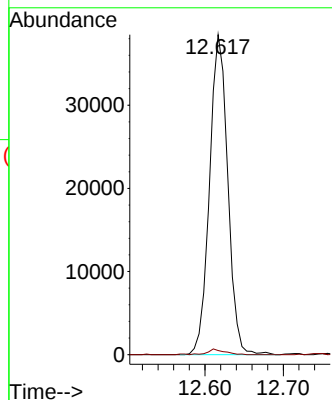
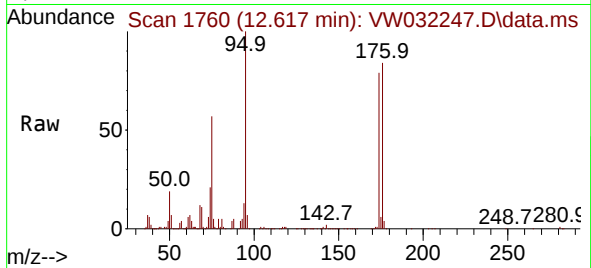




#76  
1,2,3-Trichloropropane  
Concen: 39.928 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. -0.147 min  
Lab File: VW032247.D  
Acq: 24 Sep 2025 16:30

Instrument :  
MSVOA\_W  
ClientSampleId :  
EME-TS14-02

Tgt Ion: 75 Resp: 62251  
Ion Ratio Lower Upper  
75 100  
77 1.6 141.7 425.1#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 107.504 ug/l  
RT: 12.617 min Scan# 1760  
Delta R.T. 0.103 min  
Lab File: VW032247.D  
Acq: 24 Sep 2025 16:30

Tgt Ion: 75 Resp: 62251  
Ion Ratio Lower Upper  
75 100  
53 0.5 91.0 136.6#  
89 0.0 39.4 59.2#

