

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY102025\  
 Data File : VY023499.D  
 Acq On : 20 Oct 2025 11:14  
 Operator : SY/MD  
 Sample : Q3390-03  
 Misc : 4.70g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Oct 21 03:56:21 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 08 05:12:50 2025  
 Response via : Initial Calibration

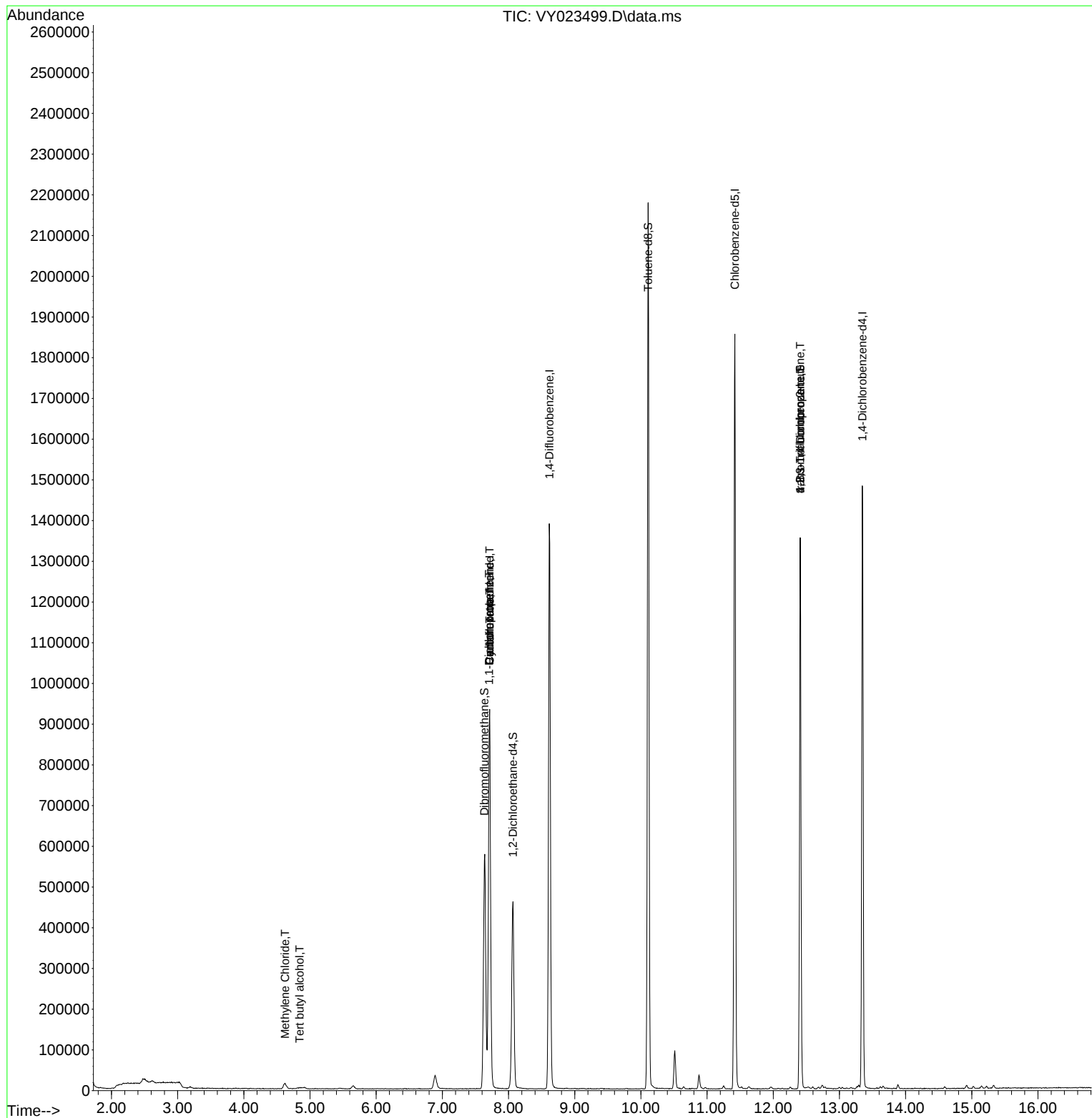
| Compound                      | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|----------|------------|----------|
| -----                         |           |       |          |          |            |          |
| Internal Standards            |           |       |          |          |            |          |
| 1) Pentafluorobenzene         | 7.713     | 168   | 780680   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616     | 114   | 1295443  | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 11.420    | 117   | 1069873  | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.347    | 152   | 398027   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 8.067     | 65    | 352999   | 54.073   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 50 - 163 | Recovery | = 108.140% |          |
| 35) Dibromofluoromethane      | 7.634     | 113   | 408822   | 51.360   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 54 - 147 | Recovery | = 102.720% |          |
| 50) Toluene-d8                | 10.109    | 98    | 1428367  | 48.185   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 58 - 134 | Recovery | = 96.380%  |          |
| 62) 4-Bromofluorobenzene      | 12.408    | 95    | 384524   | 39.290   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 30 - 143 | Recovery | = 78.580%  |          |
| Target Compounds              |           |       |          |          |            |          |
|                               |           |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 4.842     | 59    | 2243     | 4.618    | ug/l #     | 80       |
| 20) Methylene Chloride        | 4.622     | 84    | 10251    | 1.220    | ug/l       | 90       |
| 31) Cyclohexane               | 7.713     | 56    | 13575    | 1.250    | ug/l #     | 14       |
| 36) 1,1-Dichloropropene       | 7.707     | 75    | 50272    | 4.771    | ug/l #     | 48       |
| 38) Carbon Tetrachloride      | 7.713     | 117   | 69993    | 5.478    | ug/l #     | 16       |
| 76) 1,2,3-Trichloropropane    | 12.408    | 75    | 187202   | 53.309   | ug/l #     | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.408    | 75    | 187202   | 130.723  | ug/l #     | 15       |
| -----                         |           |       |          |          |            |          |

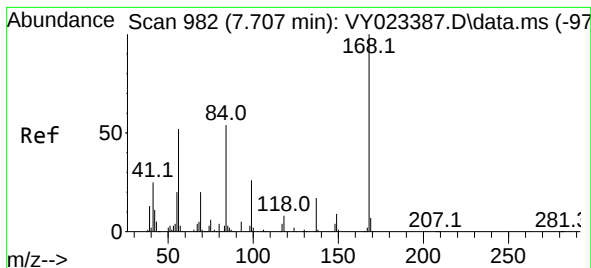
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y100725S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 08 05:12:50 2025  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.713 min Scan# 91

Delta R.T. 0.006 min

Lab File: VY023499.D

Acq: 20 Oct 2025 11:14

Instrument :

MSVOA\_Y

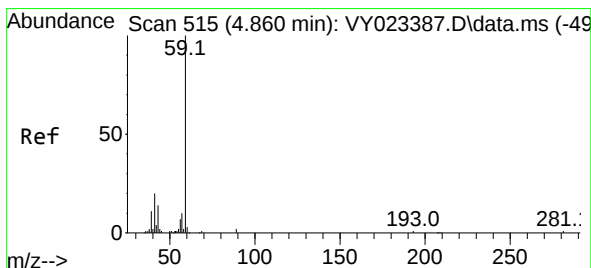
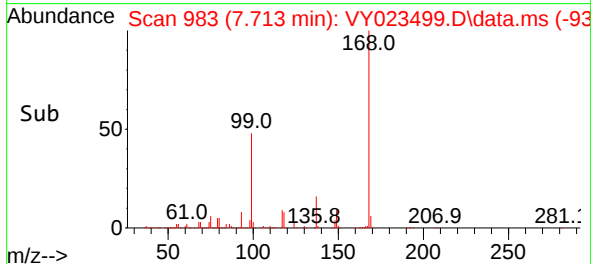
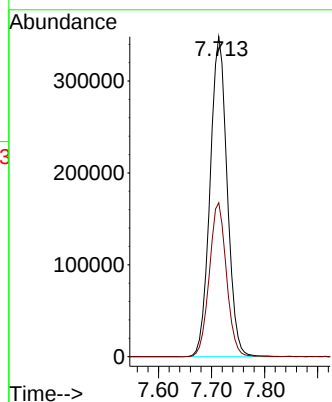
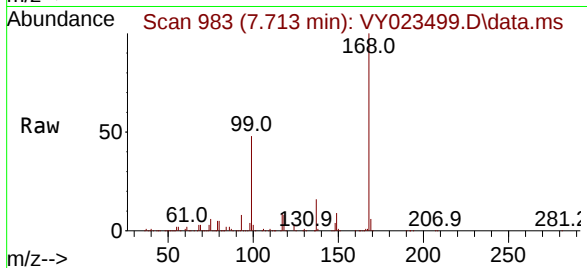
ClientSampleId :

Tgt Ion:168 Resp: 780680

Ion Ratio Lower Upper

168 100

99 48.1 39.7 59.5



#11

Tert butyl alcohol

Concen: 4.618 ug/l

RT: 4.842 min Scan# 512

Delta R.T. -0.018 min

Lab File: VY023499.D

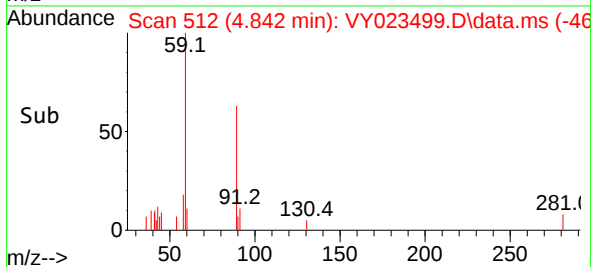
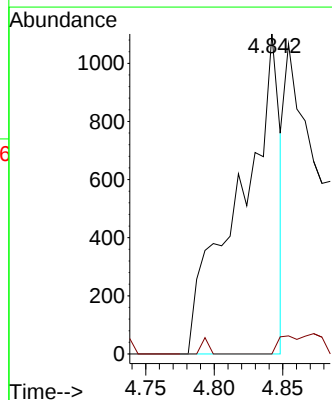
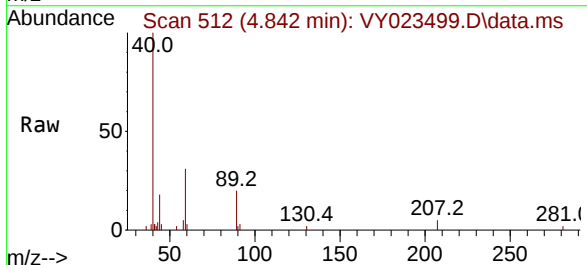
Acq: 20 Oct 2025 11:14

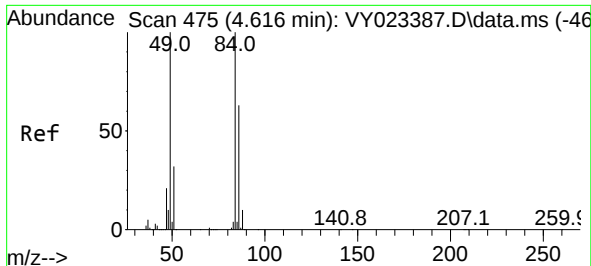
Tgt Ion: 59 Resp: 2243

Ion Ratio Lower Upper

59 100

57 2.8 8.3 12.5#

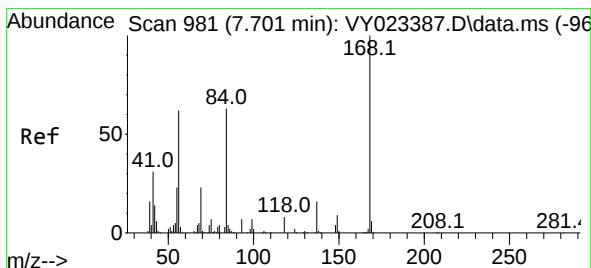
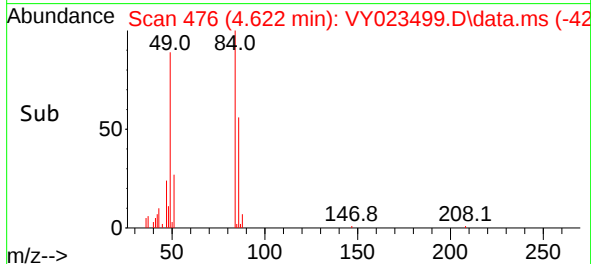
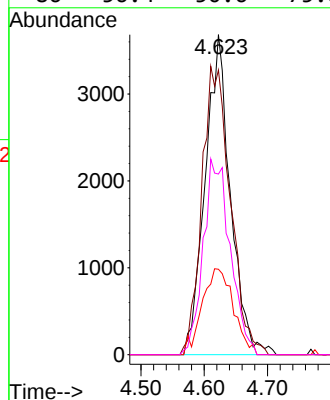
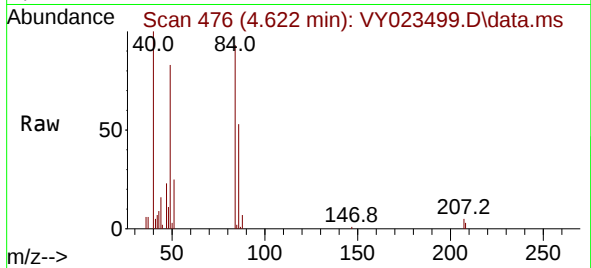




#20  
Methylene Chloride  
Concen: 1.220 ug/l  
RT: 4.622 min Scan# 41  
Delta R.T. 0.006 min  
Lab File: VY023499.D  
Acq: 20 Oct 2025 11:14

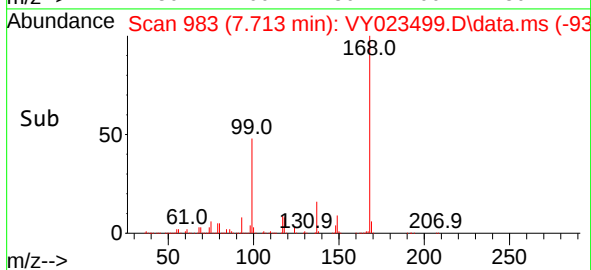
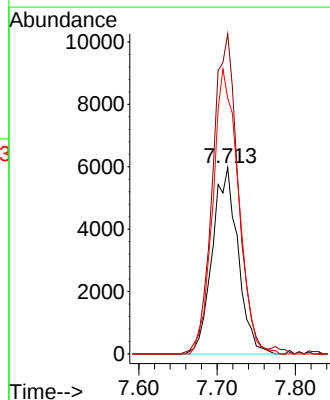
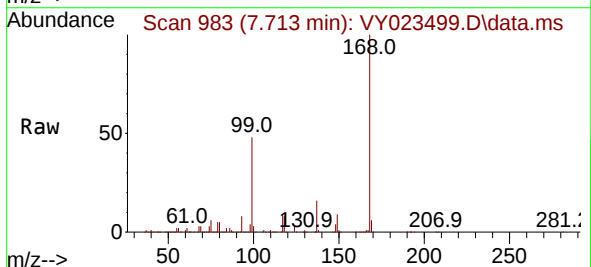
Instrument :  
MSVOA\_Y  
ClientSampleId :

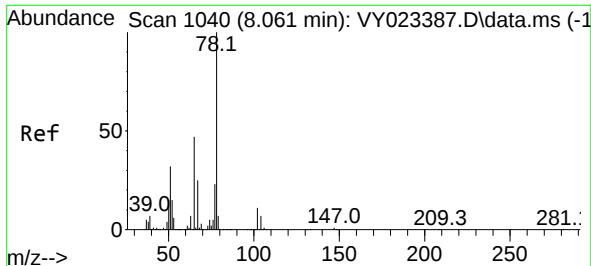
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 10251 |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 88.9     | 80.2 120.4  |
| 51 26.7     | 25.9 38.9   |
| 86 56.4     | 50.6 75.8   |



#31  
Cyclohexane  
Concen: 1.250 ug/l  
RT: 7.713 min Scan# 983  
Delta R.T. 0.012 min  
Lab File: VY023499.D  
Acq: 20 Oct 2025 11:14

|             |             |
|-------------|-------------|
| Tgt Ion: 56 | Resp: 13575 |
| Ion Ratio   | Lower Upper |
| 56 100      |             |
| 69 171.6    | 30.0 45.0#  |
| 84 137.1    | 81.2 121.8# |





#33

1,2-Dichloroethane-d4

Concen: 54.073 ug/l

RT: 8.067 min Scan# 1040

Delta R.T. 0.006 min

Lab File: VY023499.D

Acq: 20 Oct 2025 11:14

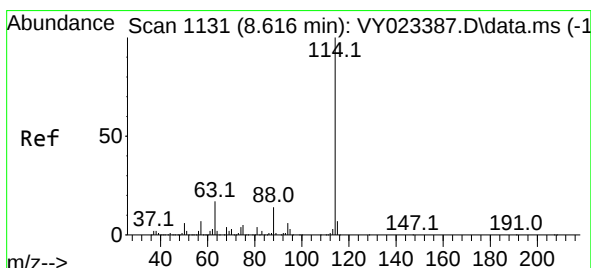
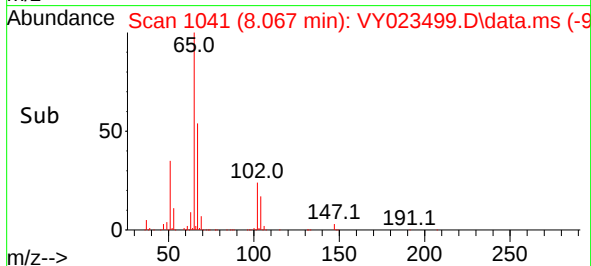
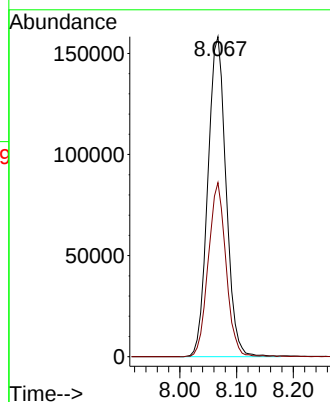
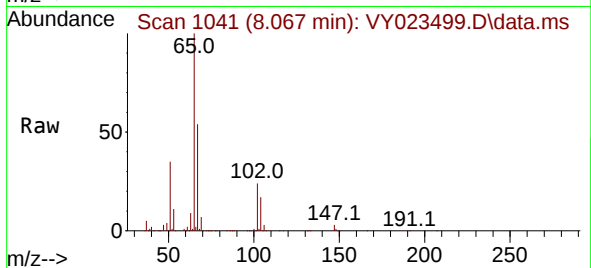
Instrument :

MSVOA\_Y

ClientSampleId :

Tgt Ion: 65 Resp: 352999

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 52.9  | 0.0   | 105.8 |



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.616 min Scan# 1131

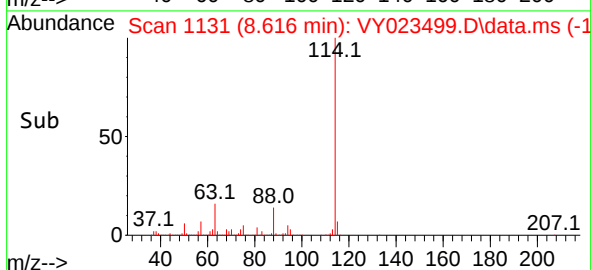
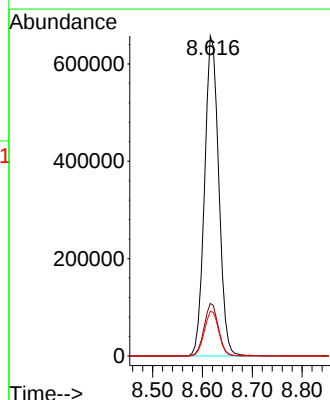
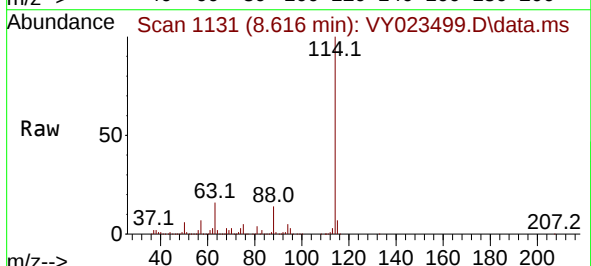
Delta R.T. 0.000 min

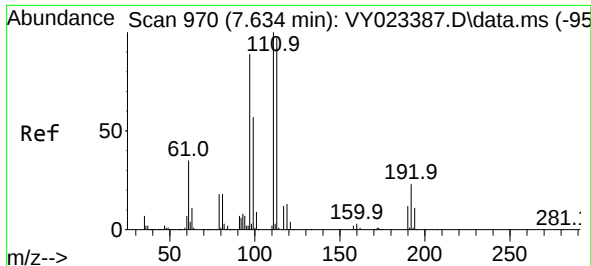
Lab File: VY023499.D

Acq: 20 Oct 2025 11:14

Tgt Ion: 114 Resp: 1295443

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 114 | 100   |       |       |
| 63  | 16.4  | 0.0   | 34.2  |
| 88  | 14.0  | 0.0   | 28.4  |

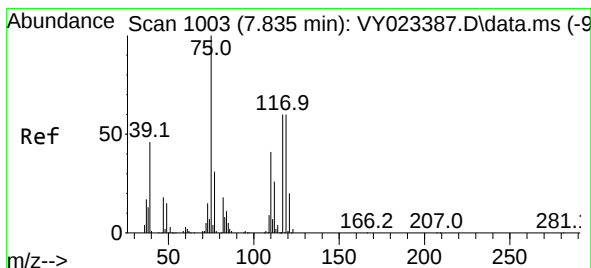
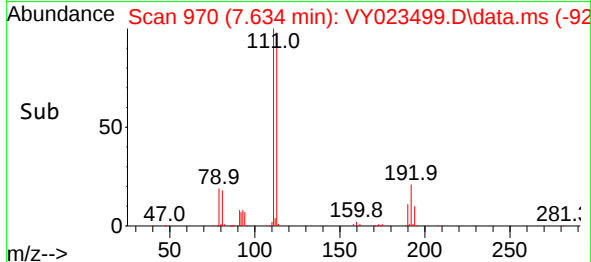
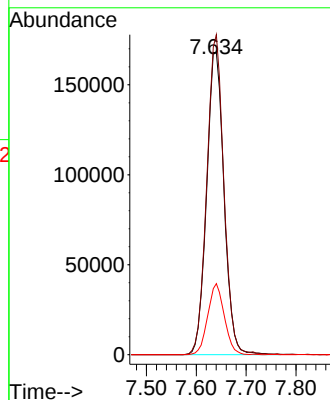
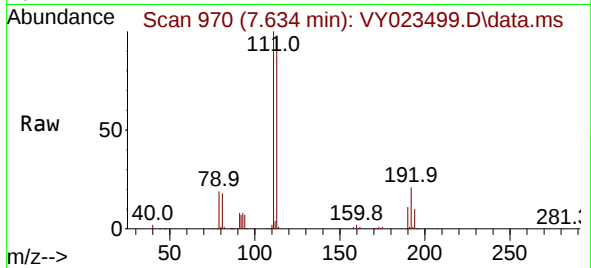




#35  
Dibromofluoromethane  
Concen: 51.360 ug/l  
RT: 7.634 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY023499.D  
Acq: 20 Oct 2025 11:14

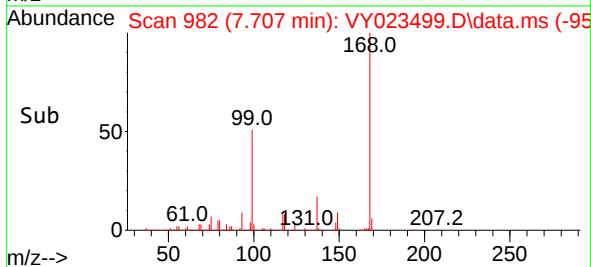
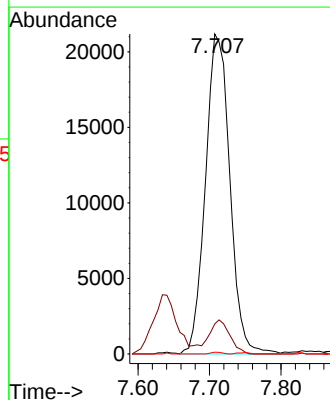
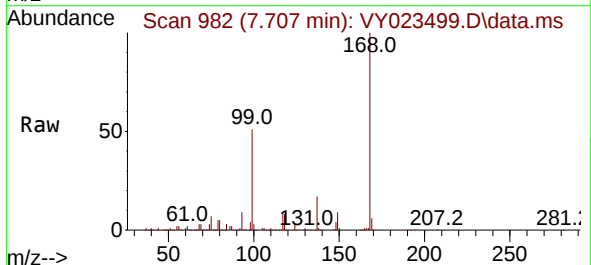
Instrument :  
MSVOA\_Y  
ClientSampleId :

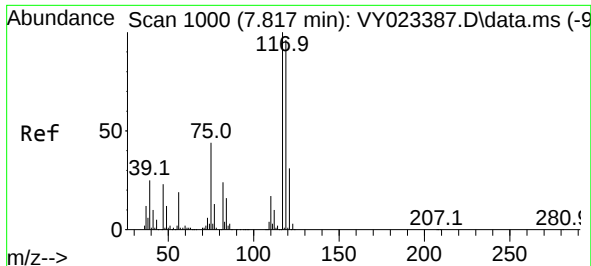
Tgt Ion:113 Resp: 408822  
Ion Ratio Lower Upper  
113 100  
111 103.4 81.8 122.6  
192 22.3 18.0 27.0



#36  
1,1-Dichloropropene  
Concen: 4.771 ug/l  
RT: 7.707 min Scan# 982  
Delta R.T. -0.128 min  
Lab File: VY023499.D  
Acq: 20 Oct 2025 11:14

Tgt Ion: 75 Resp: 50272  
Ion Ratio Lower Upper  
75 100  
110 9.5 19.9 59.7#  
77 0.2 25.0 37.6#

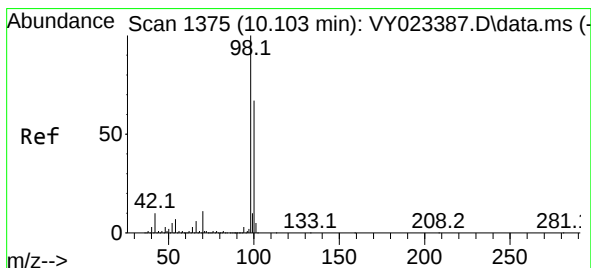
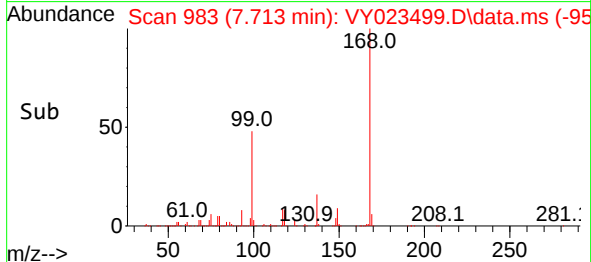
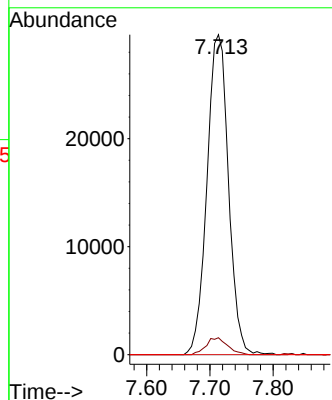
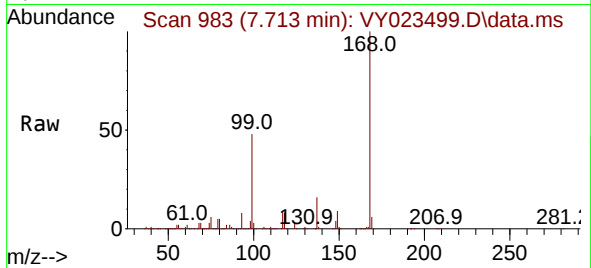




#38  
Carbon Tetrachloride  
Concen: 5.478 ug/l  
RT: 7.713 min Scan# 91  
Delta R.T. -0.104 min  
Lab File: VY023499.D  
Acq: 20 Oct 2025 11:14

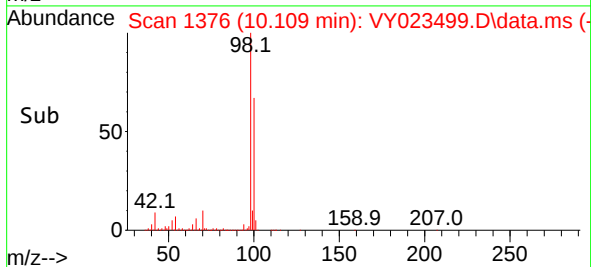
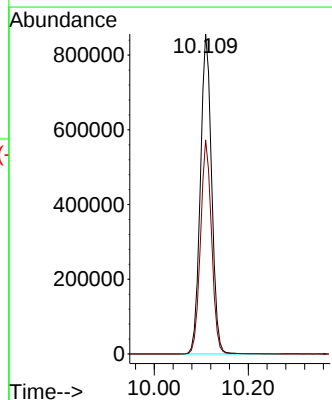
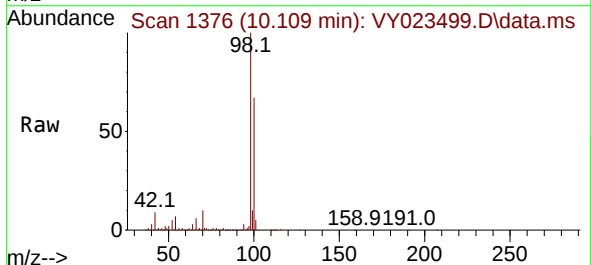
Instrument :  
MSVOA\_Y  
ClientSampleId :

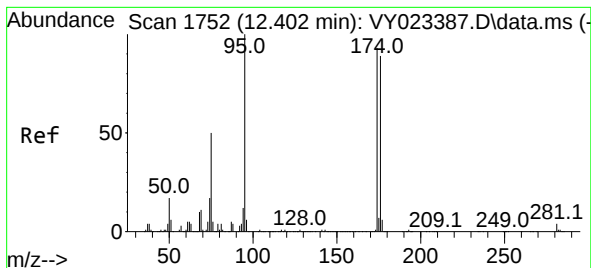
Tgt Ion:117 Resp: 69993  
Ion Ratio Lower Upper  
117 100  
119 5.3 76.8 115.2#  
121 0.0 24.5 36.7#



#50  
Toluene-d8  
Concen: 48.185 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. 0.006 min  
Lab File: VY023499.D  
Acq: 20 Oct 2025 11:14

Tgt Ion: 98 Resp: 1428367  
Ion Ratio Lower Upper  
98 100  
100 65.8 53.0 79.4

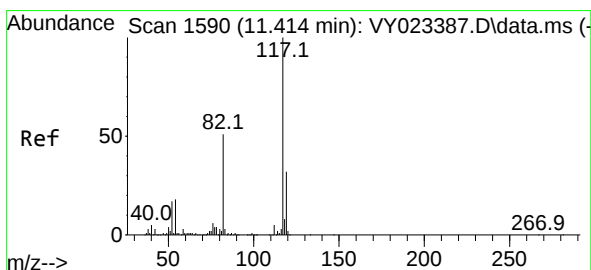
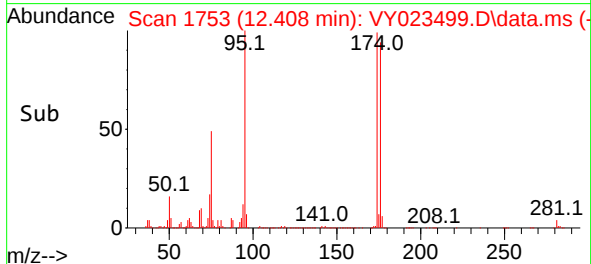
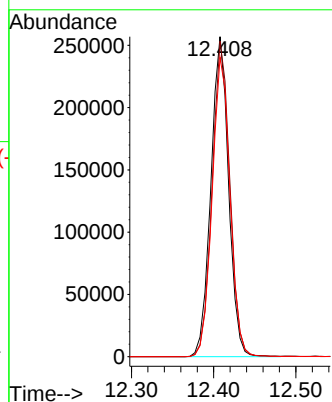
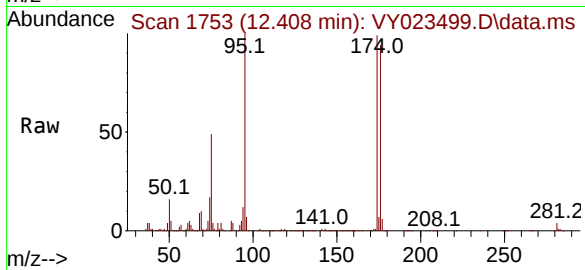




#62  
4-Bromofluorobenzene  
Concen: 39.290 ug/l  
RT: 12.408 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VY023499.D  
Acq: 20 Oct 2025 11:14

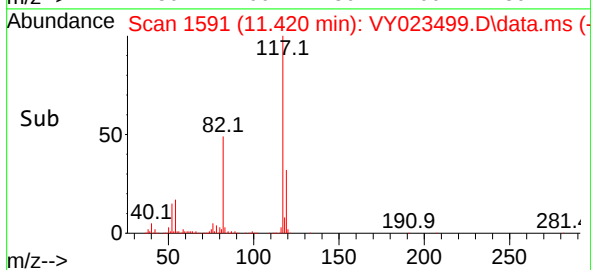
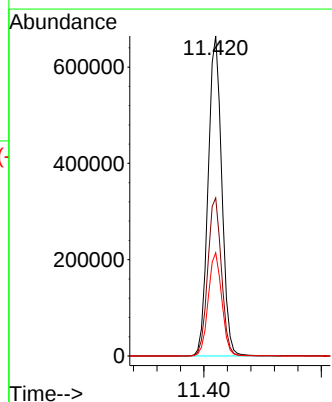
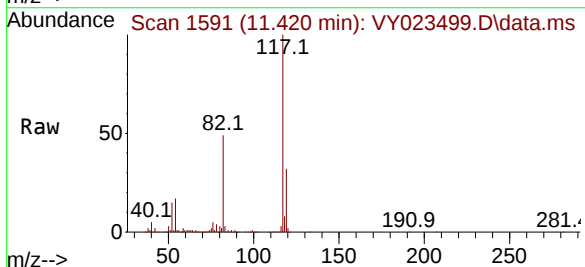
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MSVOA\_Y  
ClientSampleId :

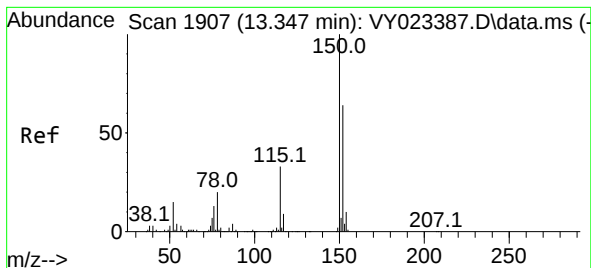
Tgt Ion: 95 Resp: 384524  
Ion Ratio Lower Upper  
95 100  
174 99.0 0.0 192.8  
176 94.3 0.0 187.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.420 min Scan# 1591  
Delta R.T. 0.006 min  
Lab File: VY023499.D  
Acq: 20 Oct 2025 11:14

Tgt Ion: 117 Resp: 1069873  
Ion Ratio Lower Upper  
117 100  
82 49.4 41.0 61.4  
119 32.2 25.6 38.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.347 min Scan# 1907

Delta R.T. 0.000 min

Lab File: VY023499.D

Acq: 20 Oct 2025 11:14

Instrument :

MSVOA\_Y

ClientSampleId :

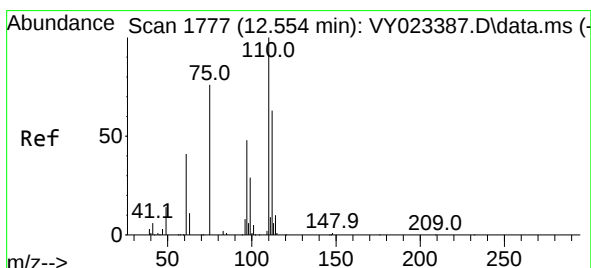
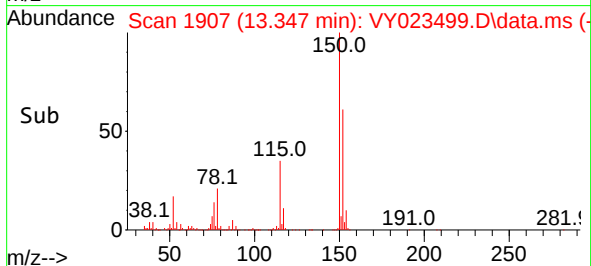
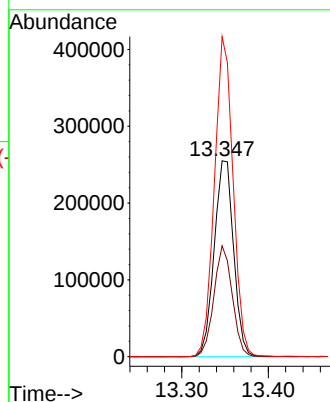
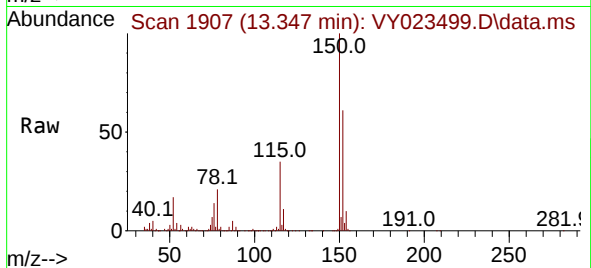
Tgt Ion:152 Resp: 398027

Ion Ratio Lower Upper

152 100

115 53.6 27.1 81.2

150 156.6 0.0 347.4



#76

1,2,3-Trichloropropane

Concen: 53.309 ug/l

RT: 12.408 min Scan# 1753

Delta R.T. -0.146 min

Lab File: VY023499.D

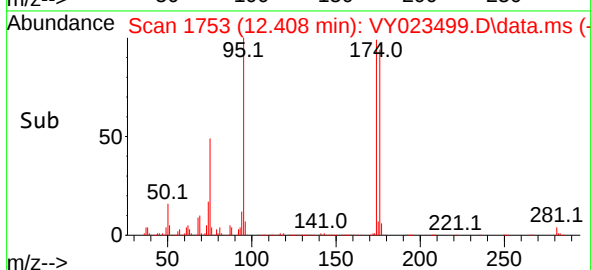
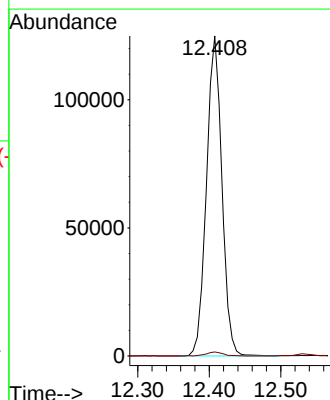
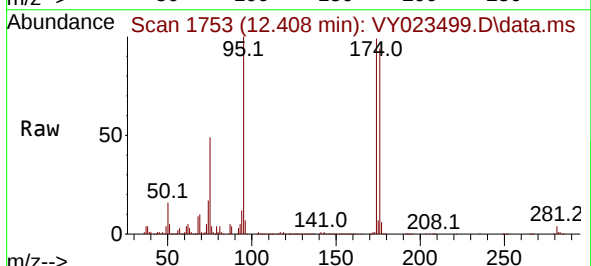
Acq: 20 Oct 2025 11:14

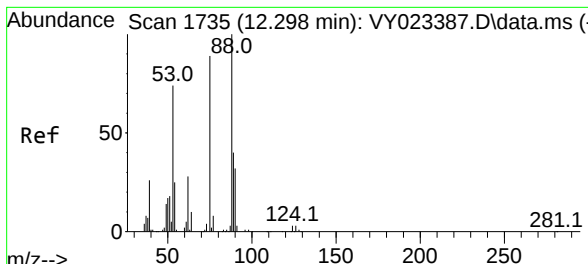
Tgt Ion: 75 Resp: 187202

Ion Ratio Lower Upper

75 100

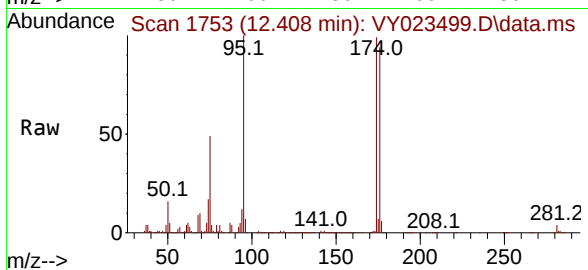
77 1.4 0.0 0.0#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 130.723 ug/l  
 RT: 12.408 min Scan# 11  
 Delta R.T. 0.110 min  
 Lab File: VY023499.D  
 Acq: 20 Oct 2025 11:14

Instrument :  
 MSVOA\_Y  
 ClientSampleId :



Tgt Ion: 75 Resp: 187202  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 68.6 102.8#  
 89 0.0 39.0 58.4#

