

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_Y\Data\VY051325\  
 Data File : VY022248.D  
 Acq On : 13 May 2025 17:05  
 Operator : SY/MD  
 Sample : Q2007-20  
 Misc : 5.17g/5.0mL/MSVOA\_Y/SOIL/A  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 OR-636-VOC-13

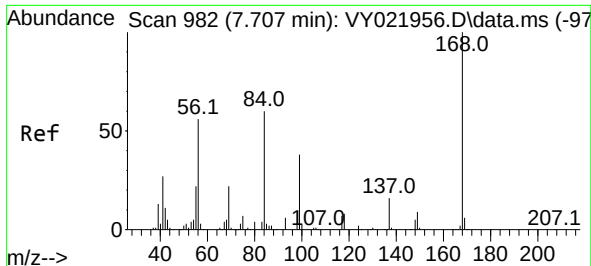
Quant Time: May 14 04:36:31 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042225S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 23 02:30:30 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 7.707  | 168   | 197384   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.616  | 114   | 356543   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.414 | 117   | 312364   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.346 | 152   | 132449   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.061  | 65    | 96486    | 52.921    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 50 - 163 | Recovery  | =      | 105.840% |
| 35) Dibromofluoromethane      | 7.634  | 113   | 112066   | 47.576    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 54 - 147 | Recovery  | =      | 95.160%  |
| 50) Toluene-d8                | 10.109 | 98    | 397956   | 44.813    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 58 - 134 | Recovery  | =      | 89.620%  |
| 62) 4-Bromofluorobenzene      | 12.402 | 95    | 106043   | 35.472    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 30 - 143 | Recovery  | =      | 70.940%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 16) Acetone                   | 3.873  | 43    | 1458     | Below Cal | #      | 81       |
| 20) Methylene Chloride        | 4.616  | 84    | 4666     | 2.024     | ug/l # | 81       |
| 31) Cyclohexane               | 7.701  | 56    | 4087     | 1.356     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 7.701  | 75    | 14628    | 4.623     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 7.707  | 117   | 19721    | 5.216     | ug/l # | 18       |
| 51) 4-Methyl-2-Pentanone      | 10.103 | 43    | 1681     | 1.469     | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.402 | 75    | 52312    | 46.111    | ug/l # | 100      |
| 81) trans-1,4-Dichloro-2-b... | 12.402 | 75    | 52312    | 111.041   | ug/l # | 16       |
| -----                         |        |       |          |           |        |          |

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

Quant Time: May 14 04:36:31 2025  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_Y\methods\82Y042225S.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 23 02:30:30 2025  
Response via : Initial Calibration

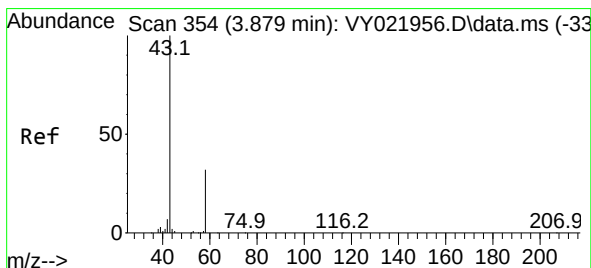
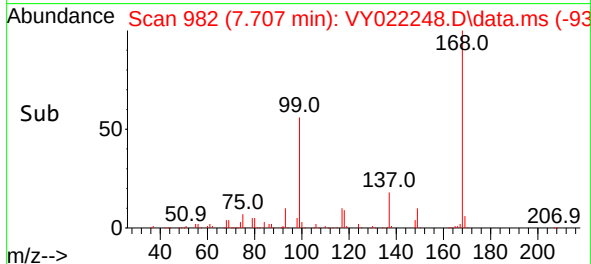
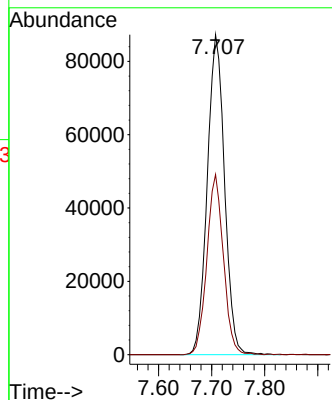
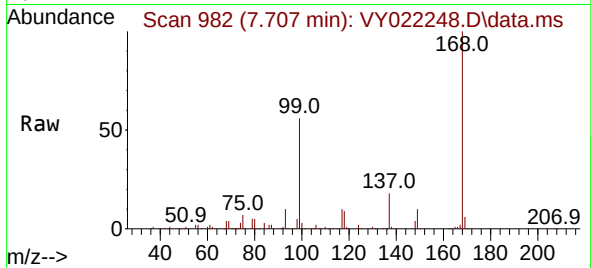




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VY022248.D  
Acq: 13 May 2025 17:05

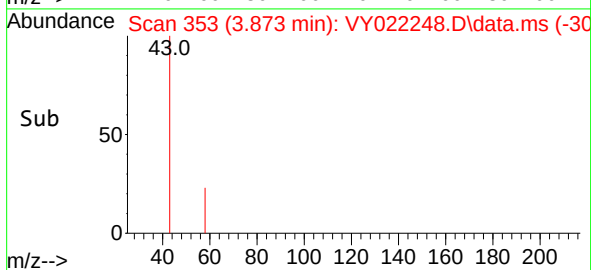
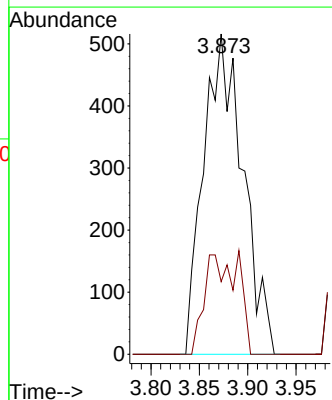
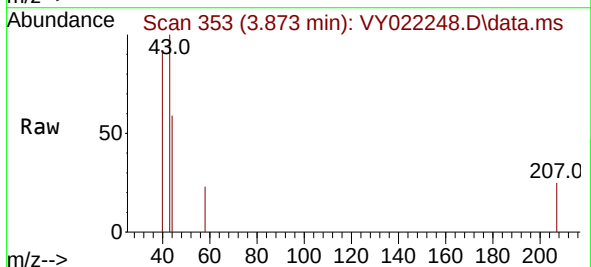
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OR-636-VOC-13

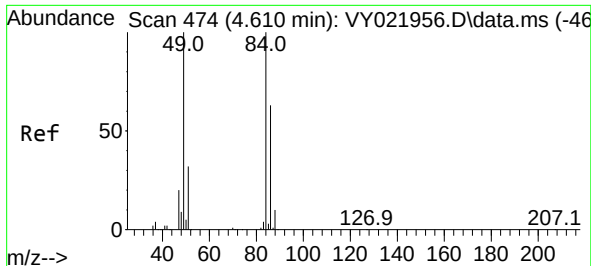
Tgt Ion:168 Resp: 197384  
Ion Ratio Lower Upper  
168 100  
99 56.3 43.1 64.7



#16  
Acetone  
Concen: Below Cal  
RT: 3.873 min Scan# 353  
Delta R.T. -0.006 min  
Lab File: VY022248.D  
Acq: 13 May 2025 17:05

Tgt Ion: 43 Resp: 1458  
Ion Ratio Lower Upper  
43 100  
58 22.7 27.0 40.4#





#20

Methylene Chloride

Concen: 2.024 ug/l

RT: 4.616 min Scan# 41

Delta R.T. 0.006 min

Lab File: VY022248.D

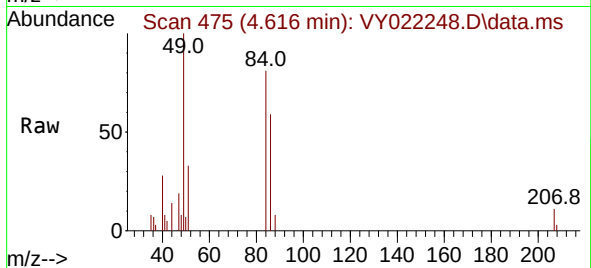
Acq: 13 May 2025 17:05

Instrument :

MSVOA\_Y

ClientSampleId :

OR-636-VOC-13



Tgt Ion: 84 Resp: 4666

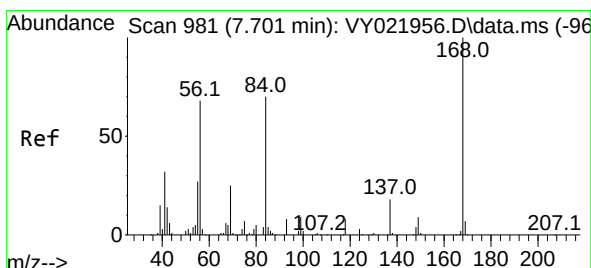
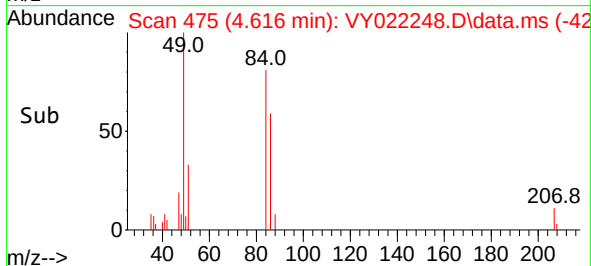
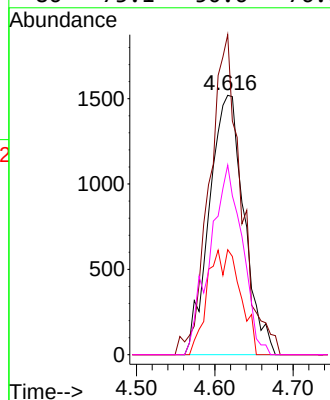
Ion Ratio Lower Upper

84 100

49 123.4 79.9 119.9#

51 40.5 25.4 38.0#

86 73.1 50.6 76.0



#31

Cyclohexane

Concen: 1.356 ug/l

RT: 7.701 min Scan# 981

Delta R.T. -0.000 min

Lab File: VY022248.D

Acq: 13 May 2025 17:05

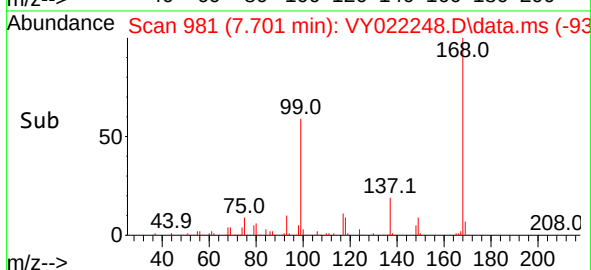
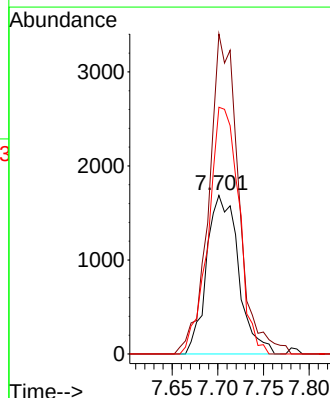
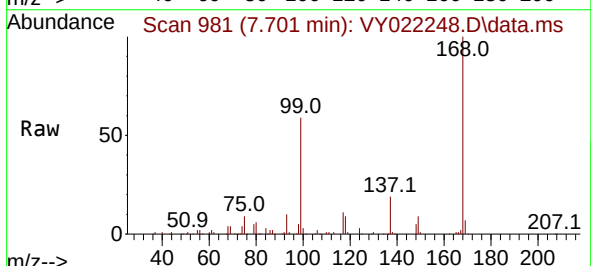
Tgt Ion: 56 Resp: 4087

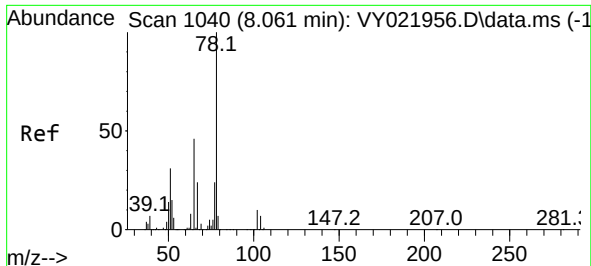
Ion Ratio Lower Upper

56 100

69 197.4 29.4 44.2#

84 155.6 82.2 123.4#





#33

1,2-Dichloroethane-d4

Concen: 52.921 ug/l

RT: 8.061 min Scan# 11040

Delta R.T. -0.000 min

Lab File: VY022248.D

Acq: 13 May 2025 17:05

Instrument :

MSVOA\_Y

ClientSampleId :

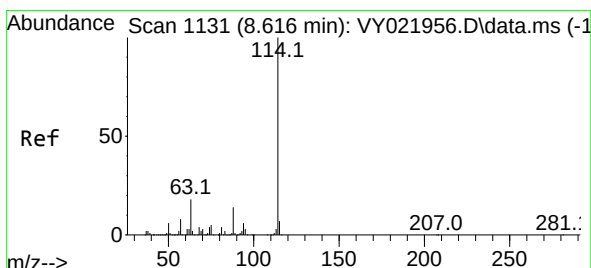
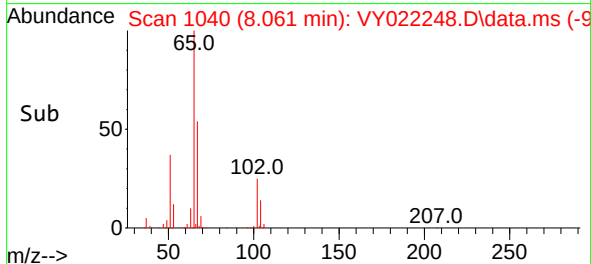
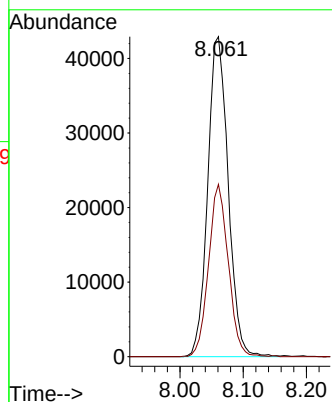
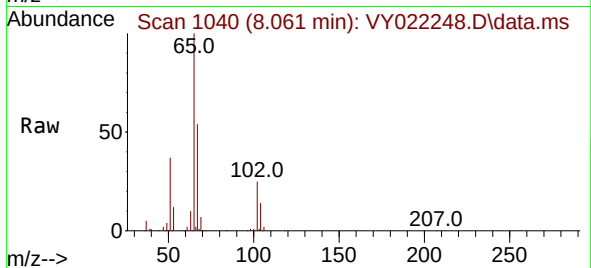
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Tgt Ion: 65 Resp: 96486

Ion Ratio Lower Upper

65 100

67 52.0 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: VY022248.D

Acq: 13 May 2025 17:05

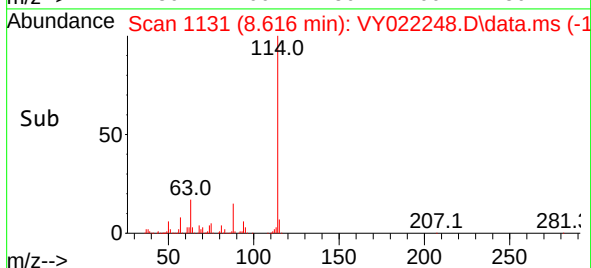
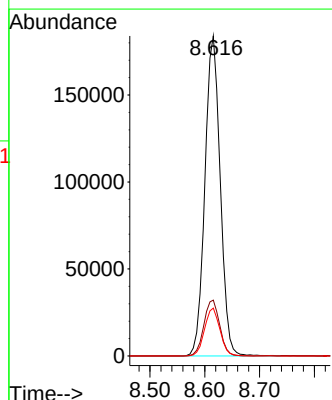
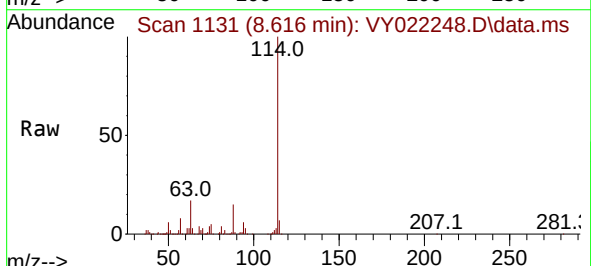
Tgt Ion: 114 Resp: 356543

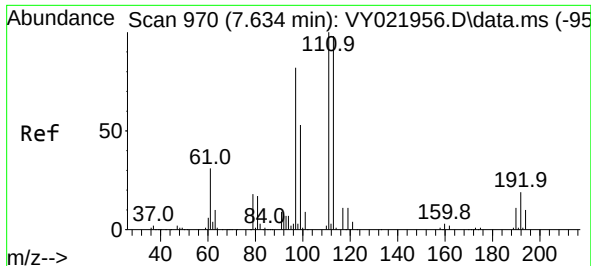
Ion Ratio Lower Upper

114 100

63 17.4 0.0 35.4

88 14.9 0.0 28.2

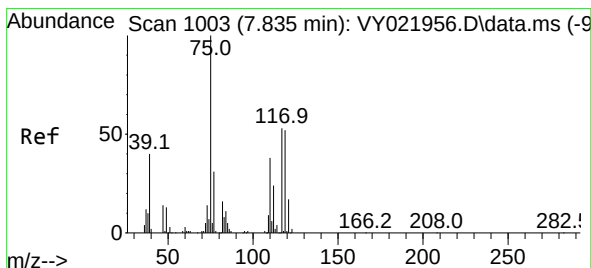
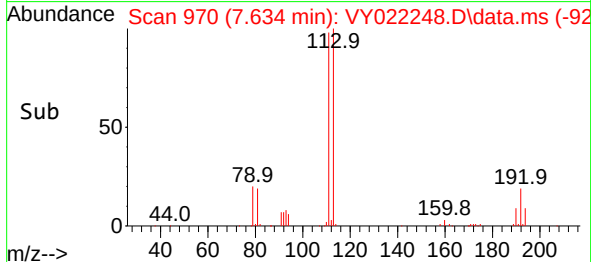
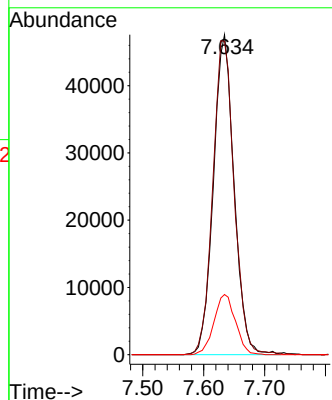
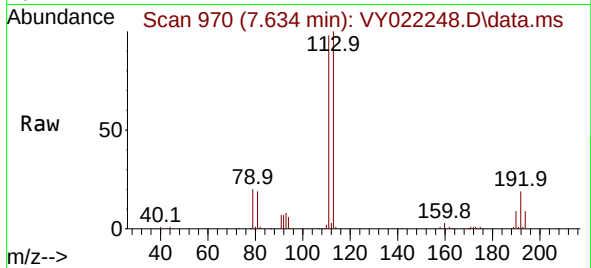




#35  
Dibromofluoromethane  
Concen: 47.576 ug/l  
RT: 7.634 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VY022248.D  
Acq: 13 May 2025 17:05

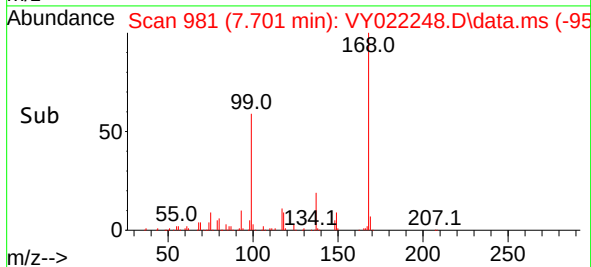
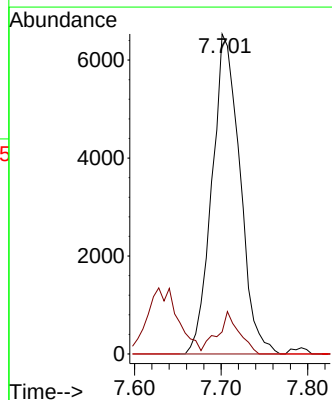
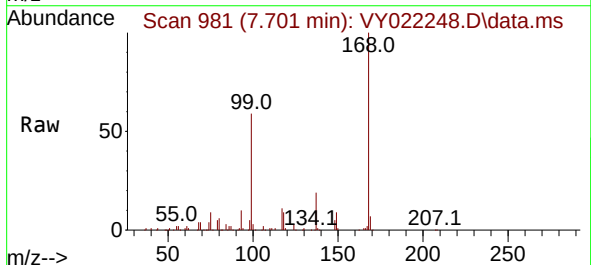
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OR-636-VOC-13

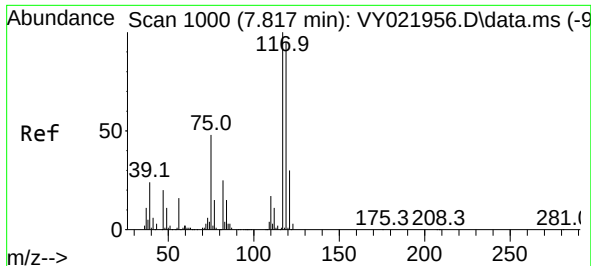
Tgt Ion:113 Resp: 112066  
Ion Ratio Lower Upper  
113 100  
111 101.6 81.8 122.8  
192 19.6 15.6 23.4



#36  
1,1-Dichloropropene  
Concen: 4.623 ug/l  
RT: 7.701 min Scan# 981  
Delta R.T. -0.134 min  
Lab File: VY022248.D  
Acq: 13 May 2025 17:05

Tgt Ion: 75 Resp: 14628  
Ion Ratio Lower Upper  
75 100  
110 10.2 19.1 57.3#  
77 0.0 25.5 38.3#

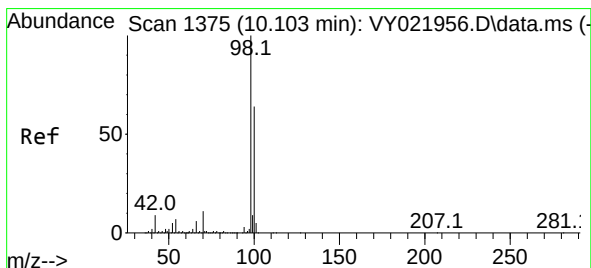
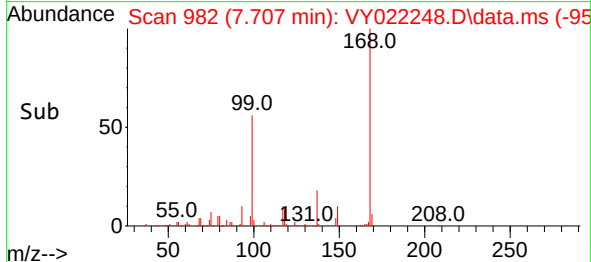
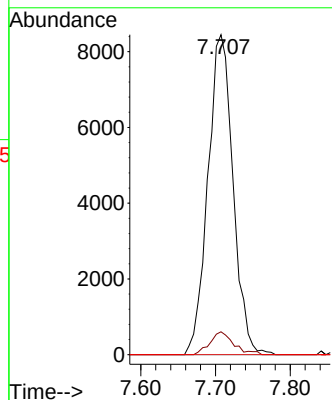
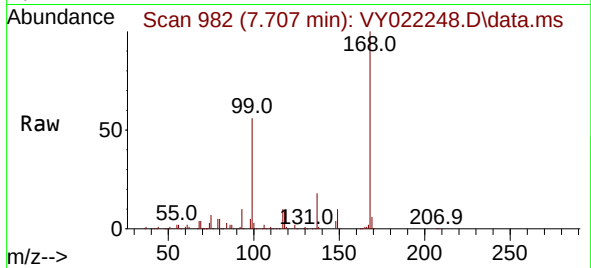




#38  
Carbon Tetrachloride  
Concen: 5.216 ug/l  
RT: 7.707 min Scan# 91  
Delta R.T. -0.110 min  
Lab File: VY022248.D  
Acq: 13 May 2025 17:05

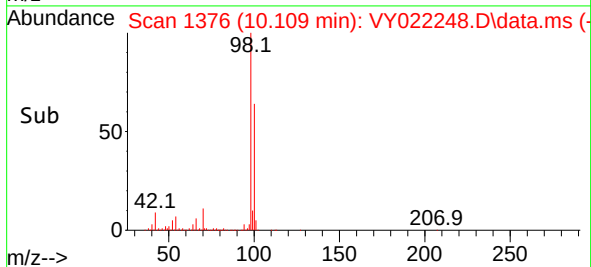
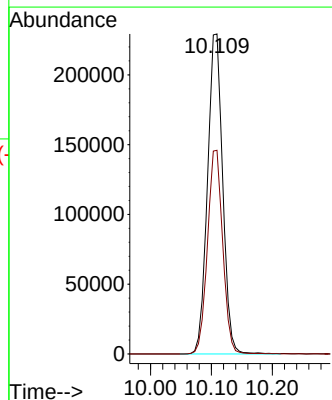
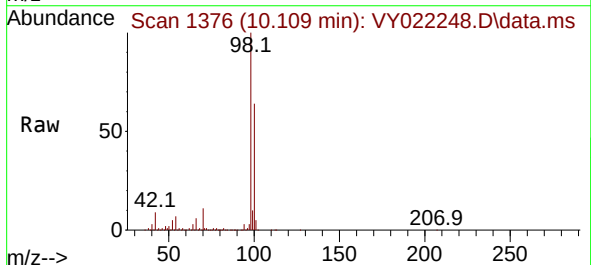
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OR-636-VOC-13

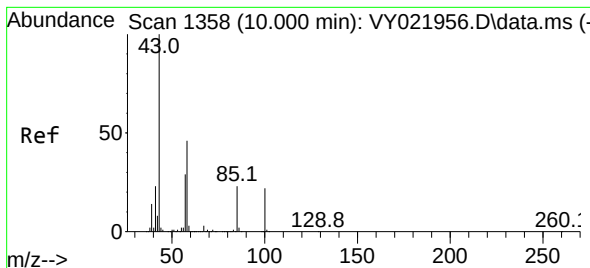
Tgt Ion:117 Resp: 19721  
Ion Ratio Lower Upper  
117 100  
119 7.2 76.2 114.4#  
121 0.0 24.0 36.0#



#50  
Toluene-d8  
Concen: 44.813 ug/l  
RT: 10.109 min Scan# 1376  
Delta R.T. 0.006 min  
Lab File: VY022248.D  
Acq: 13 May 2025 17:05

Tgt Ion: 98 Resp: 397956  
Ion Ratio Lower Upper  
98 100  
100 63.8 51.6 77.4

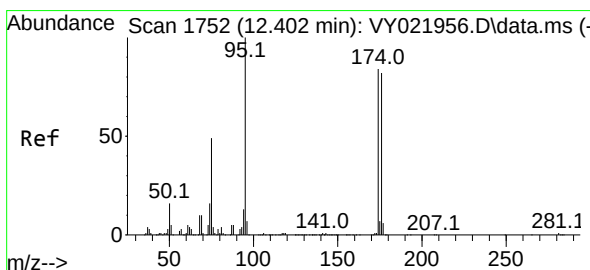
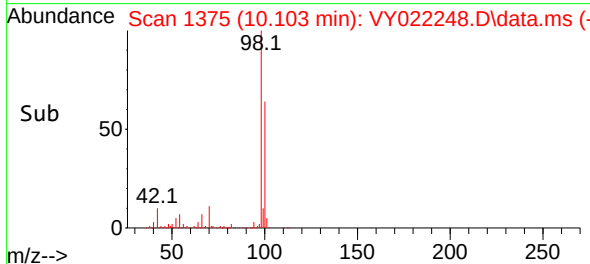
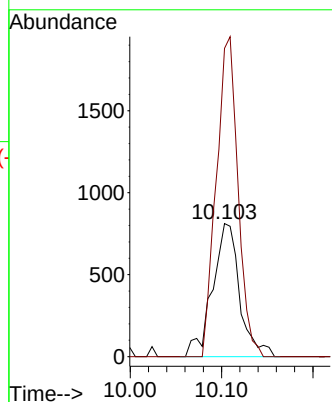
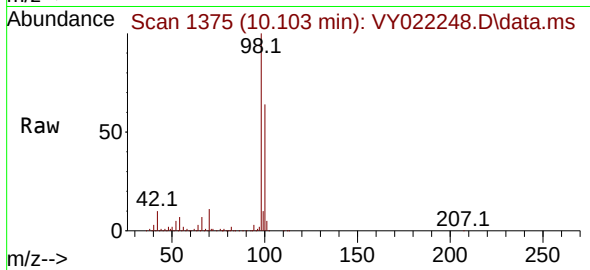




#51  
4-Methyl-2-Pentanone  
Concen: 1.469 ug/l  
RT: 10.103 min Scan# 11  
Delta R.T. 0.104 min  
Lab File: VY022248.D  
Acq: 13 May 2025 17:05

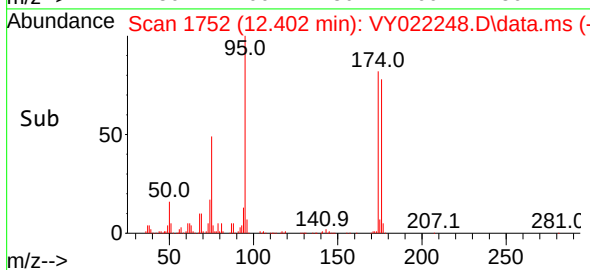
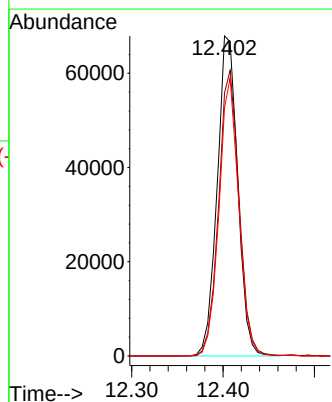
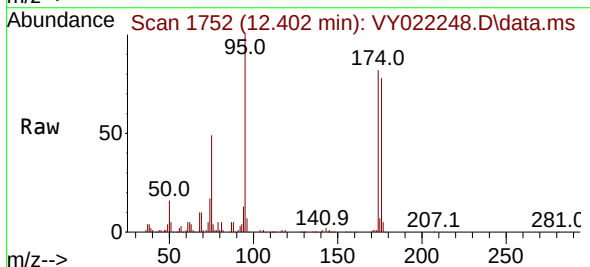
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OR-636-VOC-13

Tgt Ion: 43 Resp: 1681  
Ion Ratio Lower Upper  
43 100  
58 191.4 36.6 55.0#

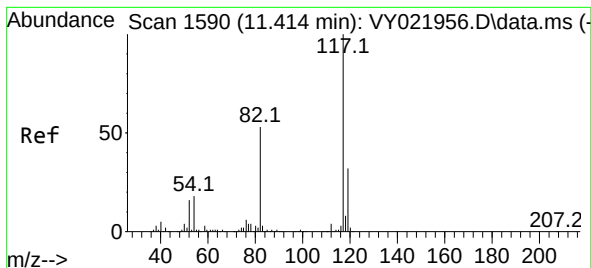


#62  
4-Bromofluorobenzene  
Concen: 35.472 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. -0.000 min  
Lab File: VY022248.D  
Acq: 13 May 2025 17:05

Tgt Ion: 95 Resp: 106043  
Ion Ratio Lower Upper  
95 100  
174 89.0 0.0 179.0  
176 83.8 0.0 171.8



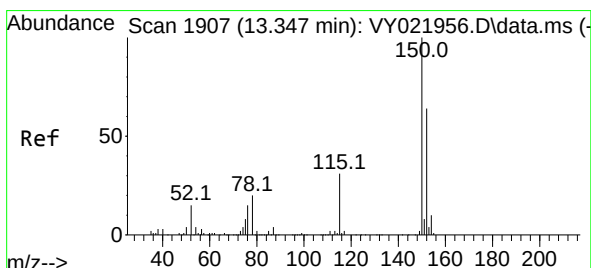
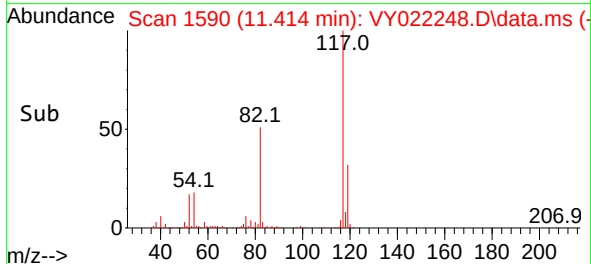
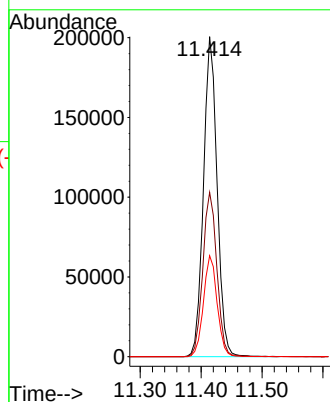
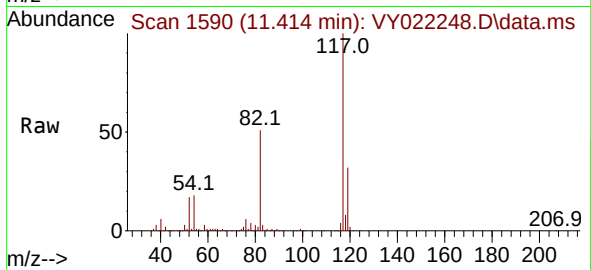




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.414 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VY022248.D  
Acq: 13 May 2025 17:05

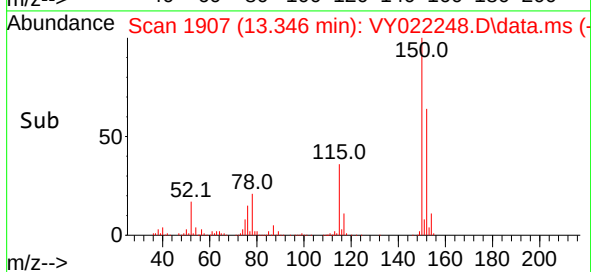
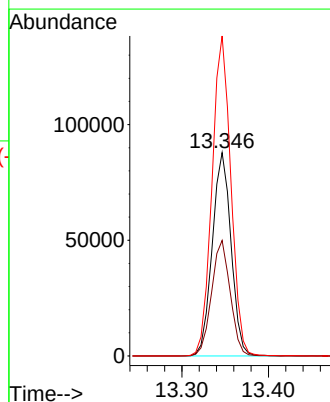
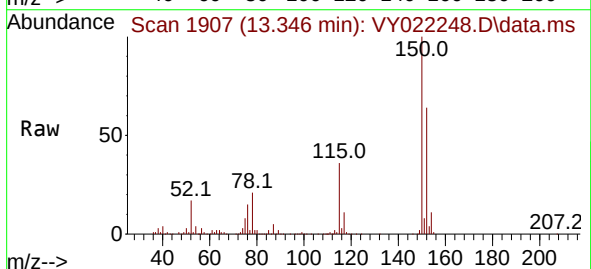
Instrument :  
MSVOA\_Y  
ClientSampleId :  
OR-636-VOC-13

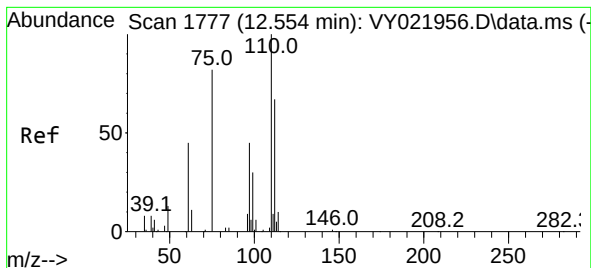
Tgt Ion:117 Resp: 312364  
Ion Ratio Lower Upper  
117 100  
82 51.4 42.1 63.1  
119 31.6 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.346 min Scan# 1907  
Delta R.T. -0.000 min  
Lab File: VY022248.D  
Acq: 13 May 2025 17:05

Tgt Ion:152 Resp: 132449  
Ion Ratio Lower Upper  
152 100  
115 56.5 28.0 84.0  
150 157.8 0.0 345.6

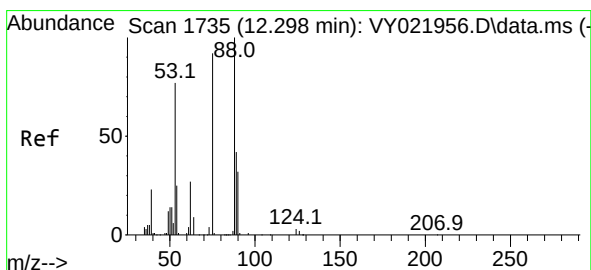
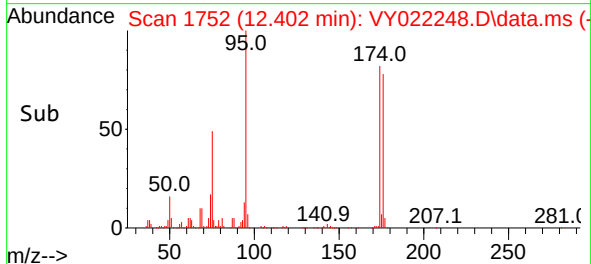
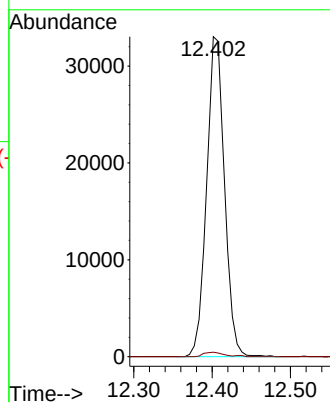
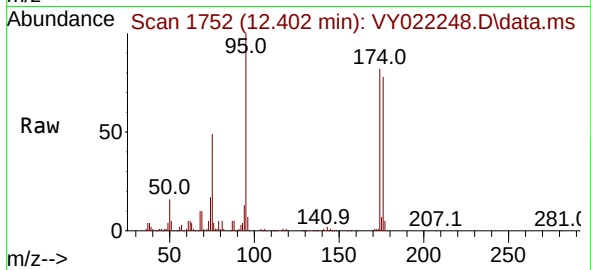




#76  
1,2,3-Trichloropropane  
Concen: 46.111 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. -0.152 min  
Lab File: VY022248.D  
Acq: 13 May 2025 17:05

Instrument :  
MSVOA\_Y  
ClientSampleId :  
OR-636-VOC-13

Tgt Ion: 75 Resp: 52312  
Ion Ratio Lower Upper  
75 100  
77 1.6 0.0 0.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 111.041 ug/l  
RT: 12.402 min Scan# 1752  
Delta R.T. 0.104 min  
Lab File: VY022248.D  
Acq: 13 May 2025 17:05

Tgt Ion: 75 Resp: 52312  
Ion Ratio Lower Upper  
75 100  
53 0.3 66.0 99.0#  
89 0.3 37.2 55.8#

