

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX031825\  
 Data File : VX045329.D  
 Acq On : 18 Mar 2025 16:47  
 Operator : JC/MD  
 Sample : Q1559-21  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D3-20250312

Quant Time: Mar 19 01:47:06 2025  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022825W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 28 06:45:16 2025  
 Response via : Initial Calibration

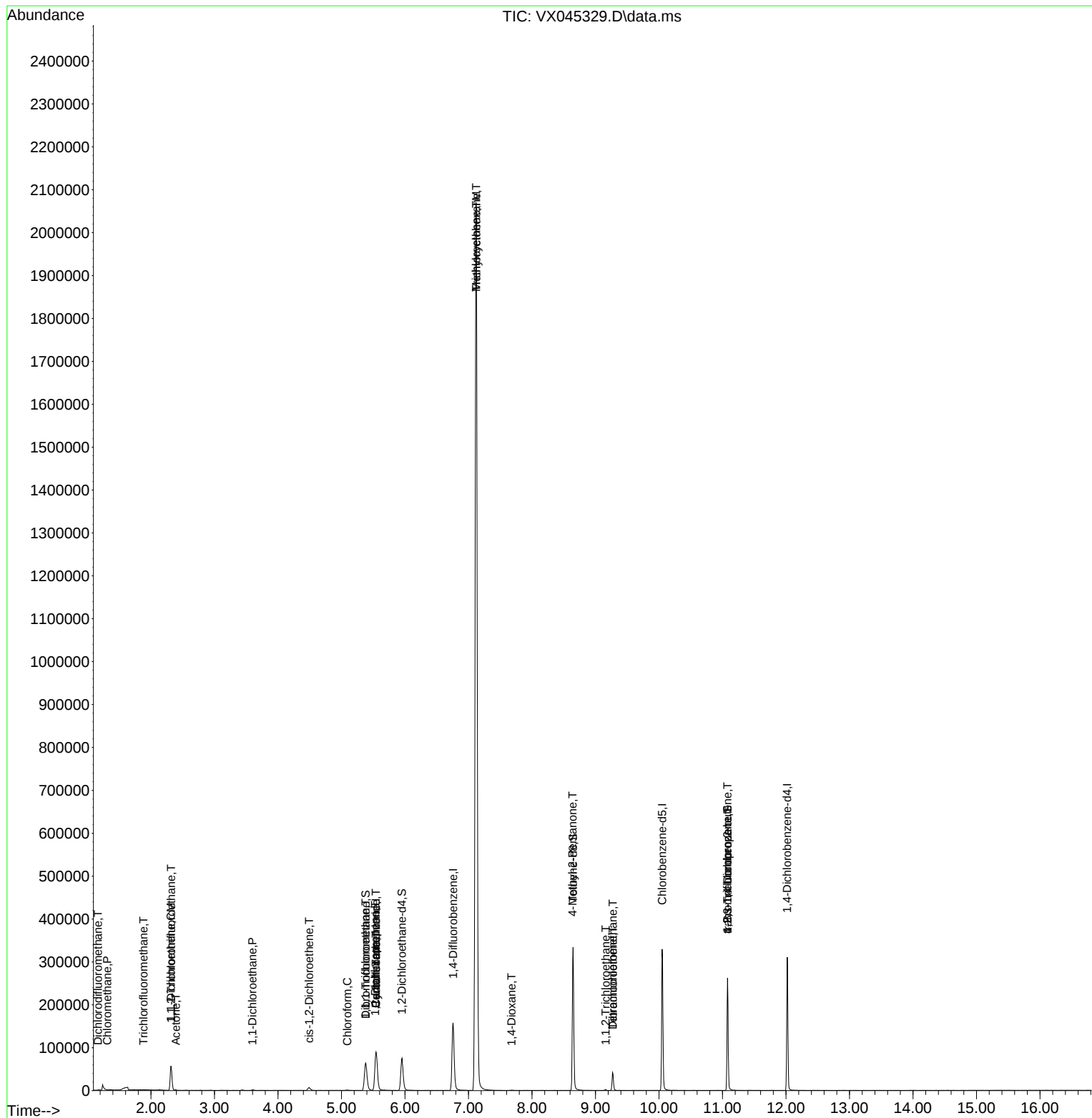
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.544  | 168   | 80658    | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.757  | 114   | 155733   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.049 | 117   | 140928   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018 | 152   | 58620    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 70329    | 54.817   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 74 - 125 | Recovery | = 109.640% |          |
| 35) Dibromofluoromethane      | 5.379  | 113   | 54846    | 52.668   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 105.340% |          |
| 50) Toluene-d8                | 8.647  | 98    | 190937   | 50.576   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 86 - 113 | Recovery | = 101.160% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 68196    | 54.513   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 77 - 121 | Recovery | = 109.020% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 2) Dichlorodifluoromethane    | 1.167  | 85    | 271      | 0.267    | ug/l       | 93       |
| 3) Chloromethane              | 1.313  | 50    | 252      | 0.203    | ug/l #     | 43       |
| 7) Trichlorofluoromethane     | 1.880  | 101   | 380      | 0.233    | ug/l #     | 78       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.319  | 101   | 15497    | 16.531   | ug/l       | 96       |
| 12) 1,1-Dichloroethene        | 2.313  | 96    | 7525     | 7.592    | ug/l       | 97       |
| 16) Acetone                   | 2.392  | 43    | 787      | 1.322    | ug/l #     | 80       |
| 24) 1,1-Dichloroethane        | 3.599  | 63    | 1848     | 0.919    | ug/l #     | 83       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96    | 4238     | 3.506    | ug/l       | 95       |
| 30) Chloroform                | 5.093  | 83    | 911      | 0.456    | ug/l #     | 67       |
| 31) Cyclohexane               | 5.544  | 56    | 2146     | 1.229    | ug/l #     | 44       |
| 32) 1,1,1-Trichloroethane     | 5.379  | 97    | 372      | 0.231    | ug/l #     | 23       |
| 36) 1,1-Dichloropropene       | 5.532  | 75    | 7501     | 5.252    | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 9138     | 6.303    | ug/l #     | 18       |
| 39) Methylcyclohexane         | 7.123  | 83    | 10738    | 6.275    | ug/l #     | 1        |
| 44) Trichloroethene           | 7.123  | 130   | 770419   | 727.567  | ug/l       | 100      |
| 49) 1,4-Dioxane               | 7.678  | 88    | 743      | 25.802   | ug/l #     | 74       |
| 51) 4-Methyl-2-Pentanone      | 8.641  | 43    | 986      | 0.540    | ug/l #     | 1        |
| 55) 1,1,2-Trichloroethane     | 9.159  | 97    | 645      | 0.592    | ug/l #     | 84       |
| 60) Dibromochloromethane      | 9.275  | 129   | 7618     | 6.689    | ug/l #     | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 7538     | 8.352    | ug/l       | 97       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 37493    | 27.480   | ug/l #     | 36       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 37493    | 94.041   | ug/l #     | 6        |
| -----                         |        |       |          |          |            |          |

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

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RE120D3-20250312

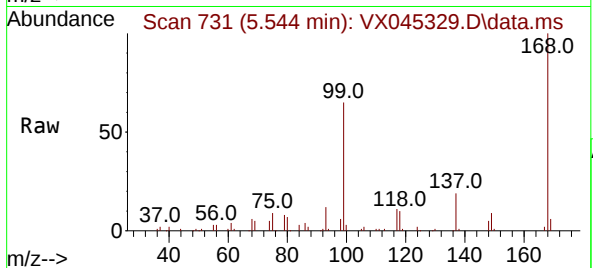
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X022825W.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 28 06:45:16 2025  
Response via : Initial Calibration



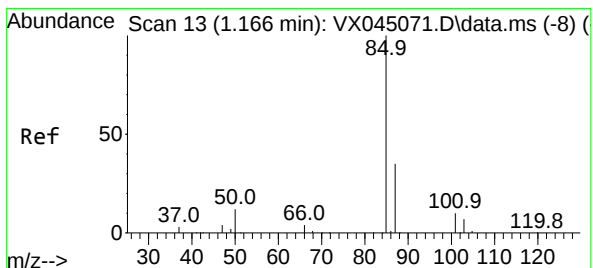
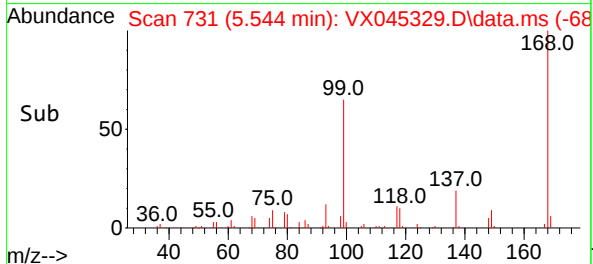
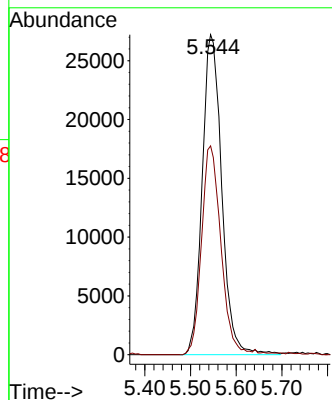


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.006 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D3-20250312

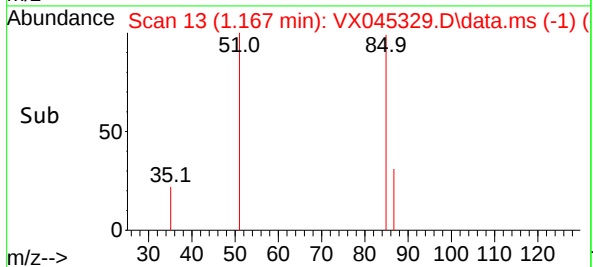
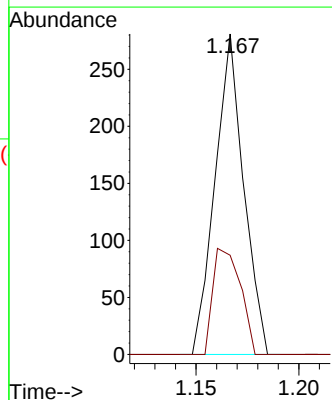
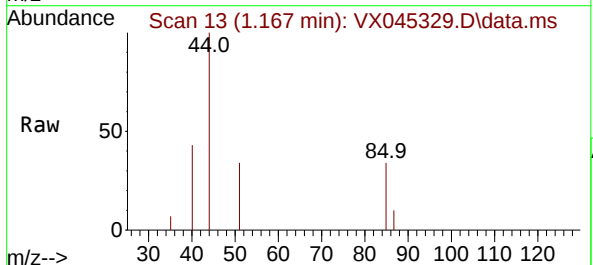


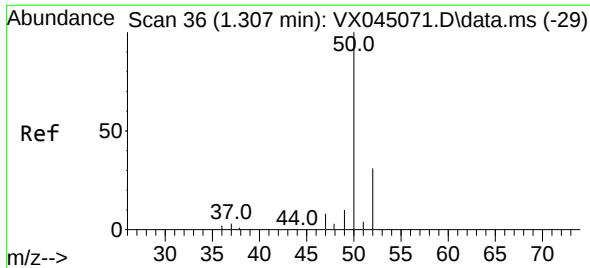
Tgt Ion:168 Resp: 80658  
Ion Ratio Lower Upper  
168 100  
99 65.3 48.2 72.4



#2  
Dichlorodifluoromethane  
Concen: 0.267 ug/l  
RT: 1.167 min Scan# 13  
Delta R.T. 0.000 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

Tgt Ion: 85 Resp: 271  
Ion Ratio Lower Upper  
85 100  
87 31.0 17.4 52.3





#3

Chloromethane

Concen: 0.203 ug/l

RT: 1.313 min Scan# 31

Delta R.T. 0.006 min

Lab File: VX045329.D

Acq: 18 Mar 2025 16:47

Instrument :

MSVOA\_X

ClientSampleId :

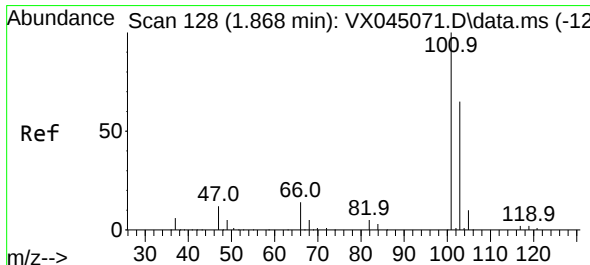
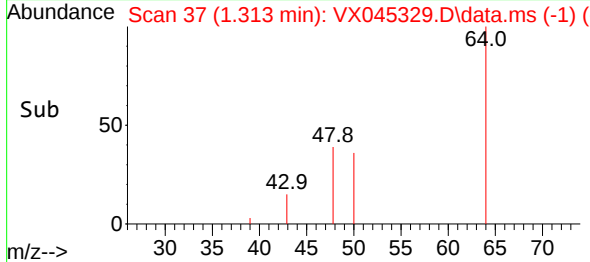
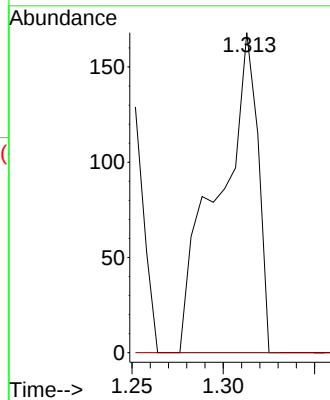
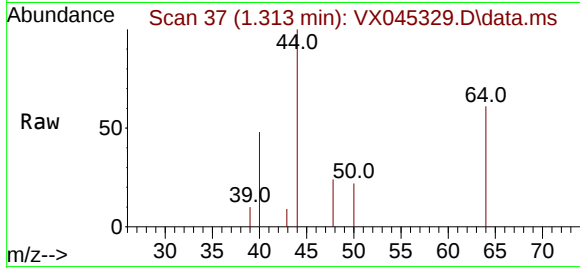
RE120D3-20250312

Tgt Ion: 50 Resp: 252

Ion Ratio Lower Upper

50 100

52 0.0 25.0 37.4#



#7

Trichlorofluoromethane

Concen: 0.233 ug/l

RT: 1.880 min Scan# 130

Delta R.T. 0.012 min

Lab File: VX045329.D

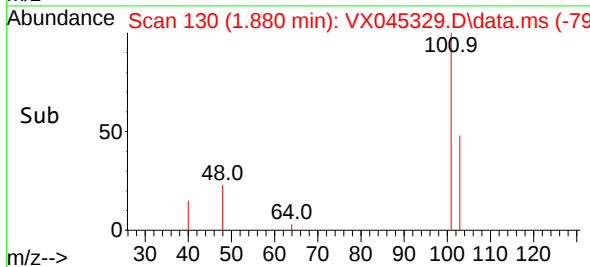
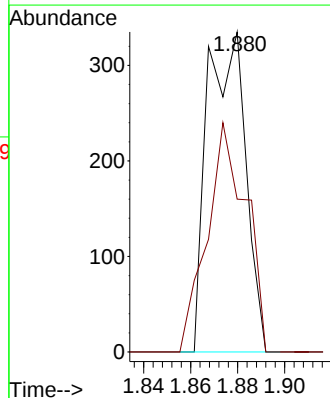
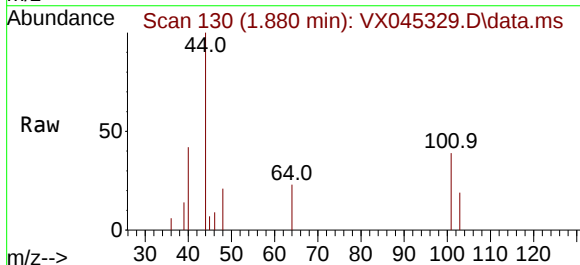
Acq: 18 Mar 2025 16:47

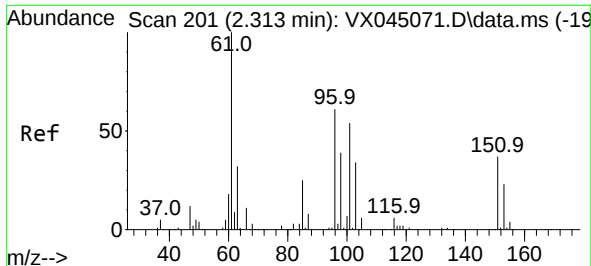
Tgt Ion: 101 Resp: 380

Ion Ratio Lower Upper

101 100

103 47.8 52.1 78.1#

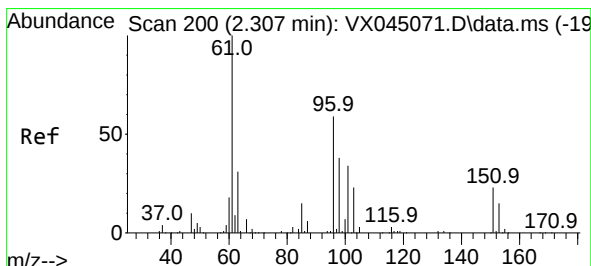
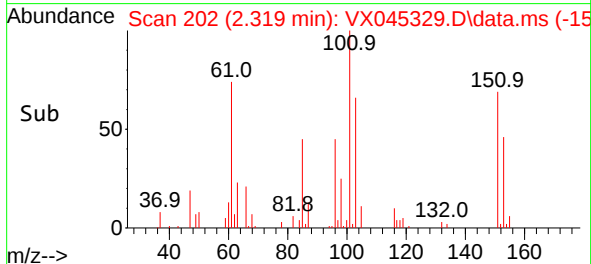
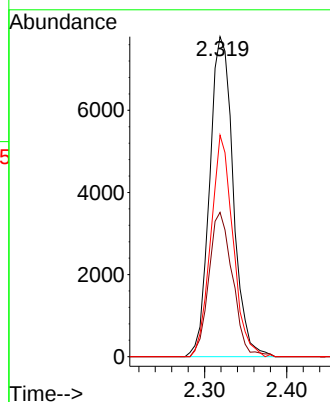
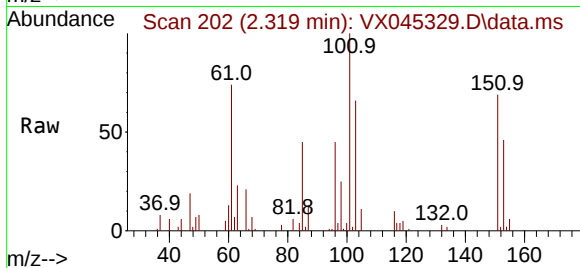




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 16.531 ug/l  
RT: 2.319 min Scan# 201  
Delta R.T. 0.006 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

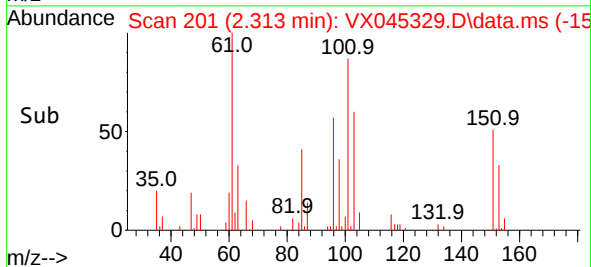
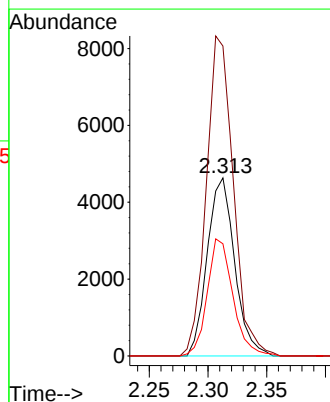
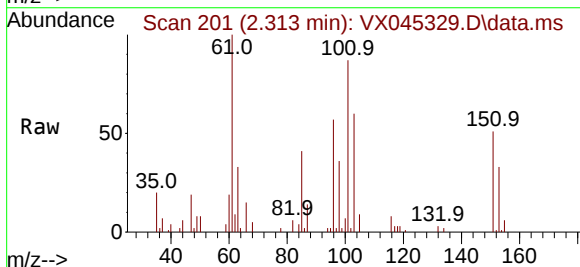
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D3-20250312

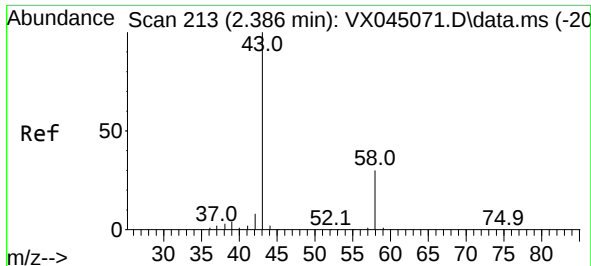
Tgt Ion:101 Resp: 15497  
Ion Ratio Lower Upper  
101 100  
85 45.4 36.2 54.4  
151 65.3 56.4 84.6



#12  
1,1-Dichloroethene  
Concen: 7.592 ug/l  
RT: 2.313 min Scan# 201  
Delta R.T. 0.006 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

Tgt Ion: 96 Resp: 7525  
Ion Ratio Lower Upper  
96 100  
61 174.1 134.6 202.0  
98 63.0 51.0 76.6

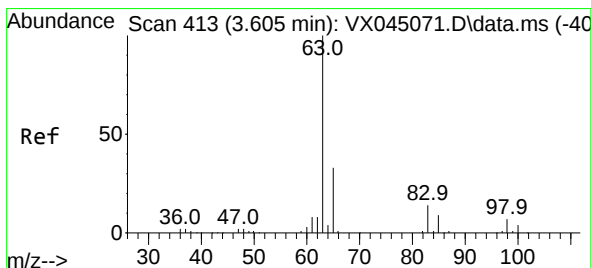
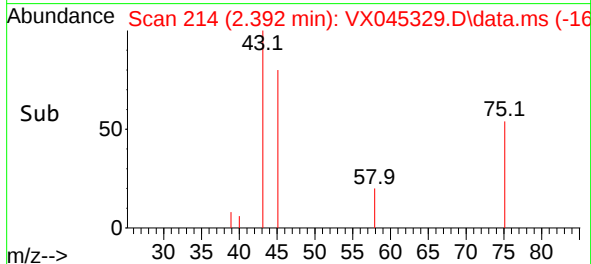
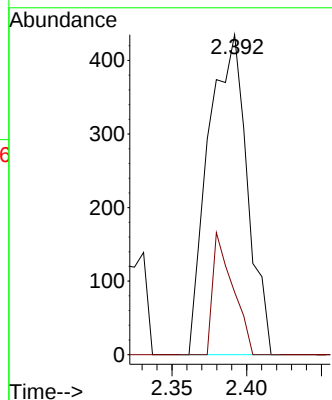
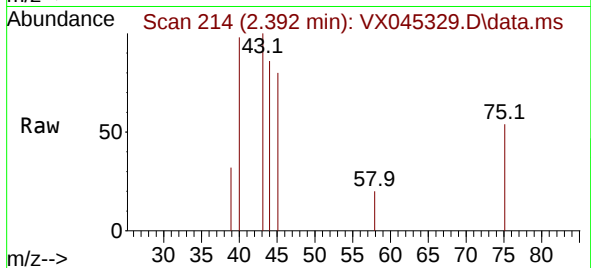




#16  
Acetone  
Concen: 1.322 ug/l  
RT: 2.392 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

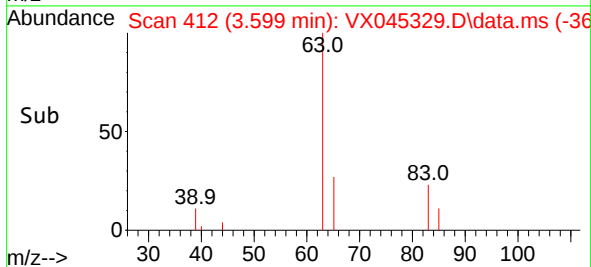
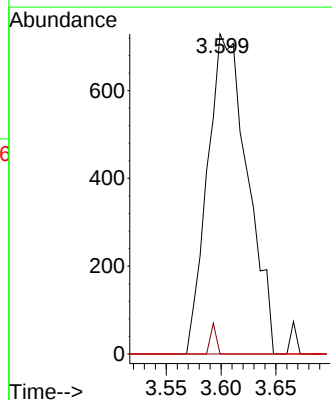
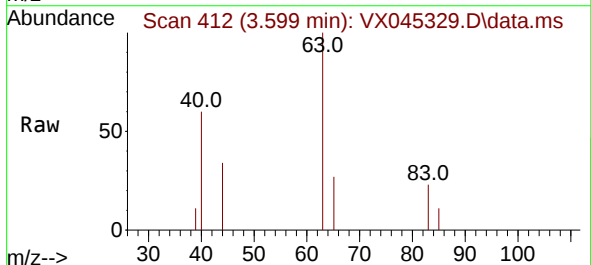
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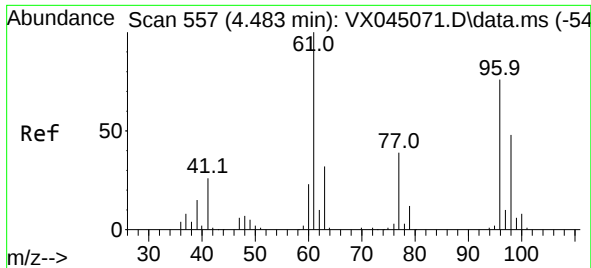
Tgt Ion: 43 Resp: 787  
Ion Ratio Lower Upper  
43 100  
58 19.5 24.2 36.4#



#24  
1,1-Dichloroethane  
Concen: 0.919 ug/l  
RT: 3.599 min Scan# 412  
Delta R.T. -0.006 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

Tgt Ion: 63 Resp: 1848  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.4 10.2#  
100 0.0 2.1 6.5#

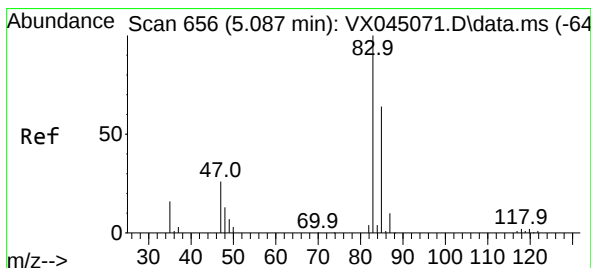
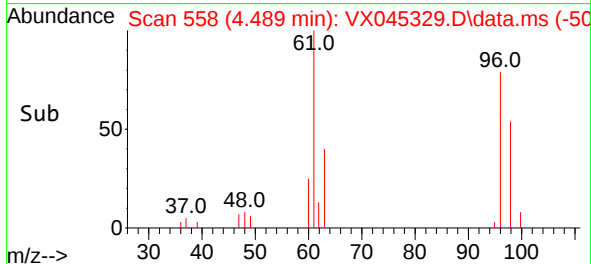
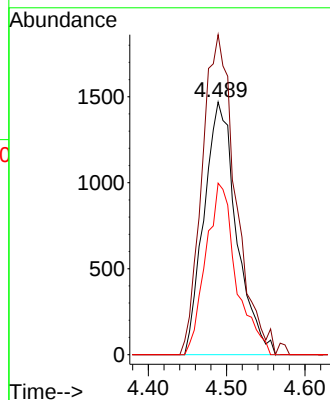
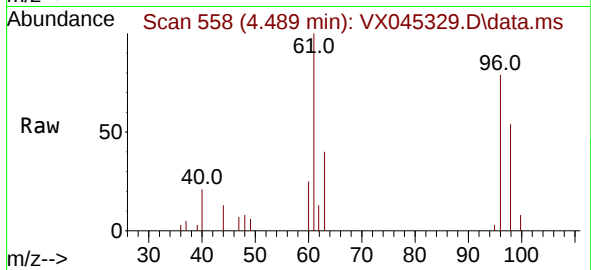




#27  
 cis-1,2-Dichloroethene  
 Concen: 3.506 ug/l  
 RT: 4.489 min Scan# 51  
 Delta R.T. 0.006 min  
 Lab File: VX045329.D  
 Acq: 18 Mar 2025 16:47

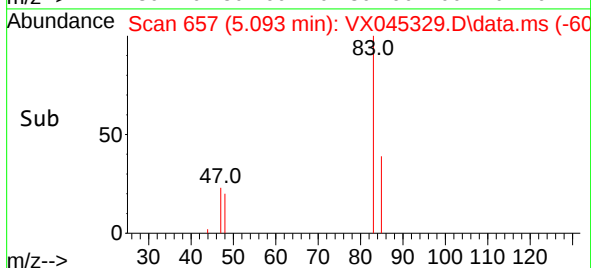
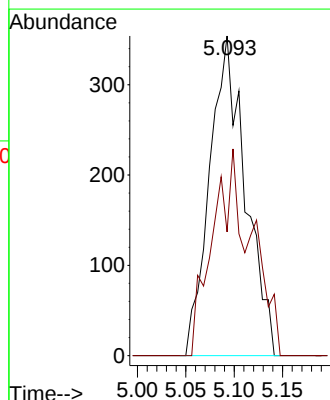
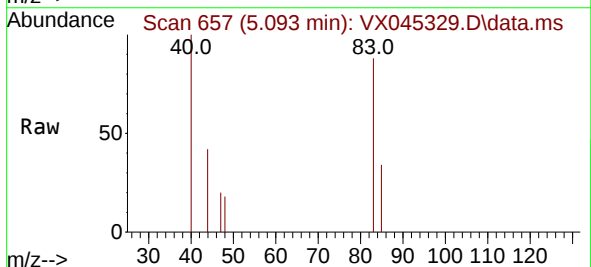
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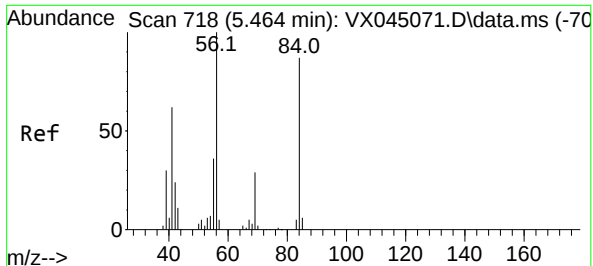
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|----------|-------|-------|-------|
| Tgt Ion: | 96    | Resp: | 4238  |
| Ion      | Ratio | Lower | Upper |
| 96       | 100   |       |       |
| 61       | 132.5 | 0.0   | 283.2 |
| 98       | 63.5  | 0.0   | 128.0 |



#30  
 Chloroform  
 Concen: 0.456 ug/l  
 RT: 5.093 min Scan# 657  
 Delta R.T. 0.006 min  
 Lab File: VX045329.D  
 Acq: 18 Mar 2025 16:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 911   |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 85       | 38.7  | 51.4  | 77.2# |

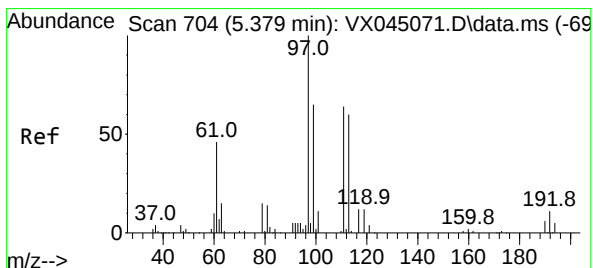
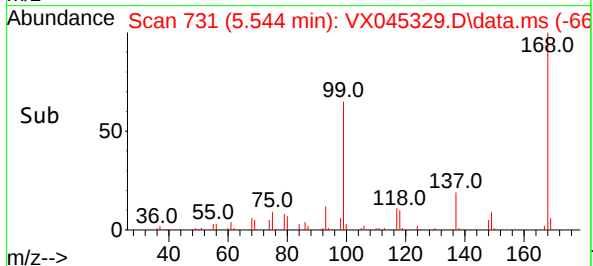
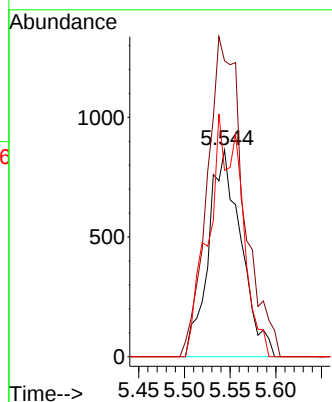
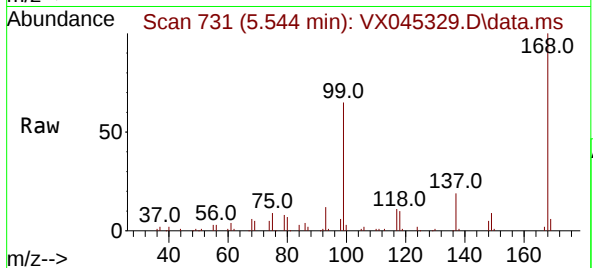




#31  
Cyclohexane  
Concen: 1.229 ug/l  
RT: 5.544 min Scan# 718  
Delta R.T. 0.079 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

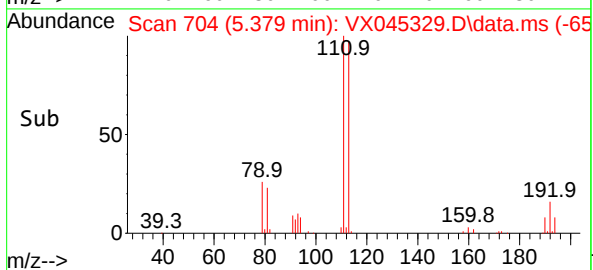
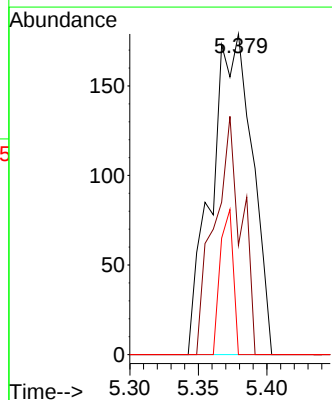
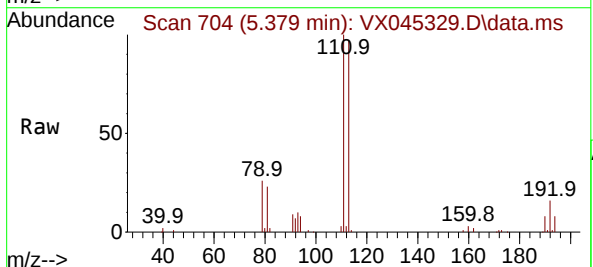
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D3-20250312

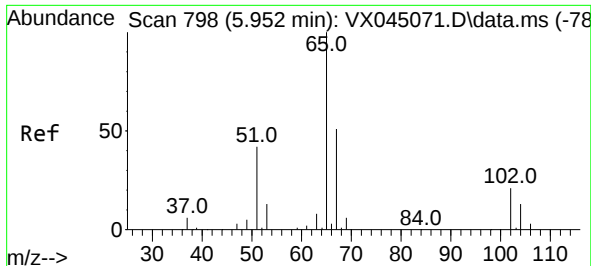
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Ion Ratio Lower Upper  
56 100  
69 143.1 23.4 35.2#  
84 90.2 69.4 104.2



#32  
1,1,1-Trichloroethane  
Concen: 0.231 ug/l  
RT: 5.379 min Scan# 704  
Delta R.T. 0.000 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

Tgt Ion: 97 Resp: 372  
Ion Ratio Lower Upper  
97 100  
99 0.0 51.6 77.4#  
61 0.0 38.4 57.6#





#33

1,2-Dichloroethane-d4

Concen: 54.817 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045329.D

Acq: 18 Mar 2025 16:47

Instrument :

MSVOA\_X

ClientSampleId :

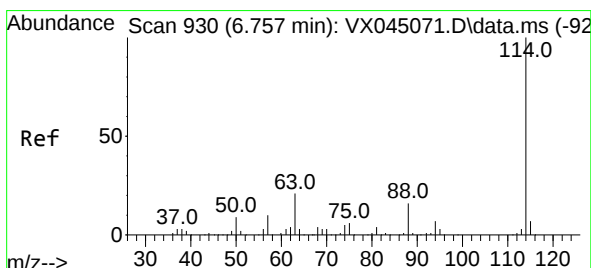
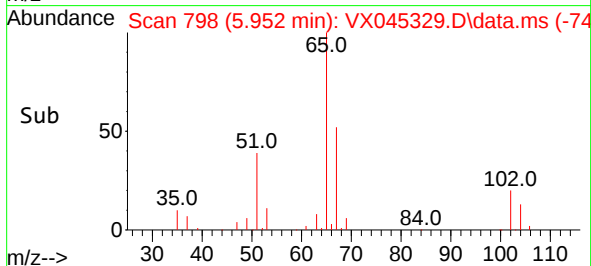
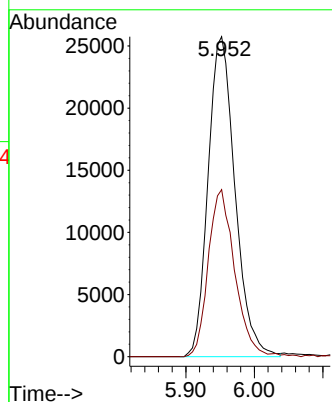
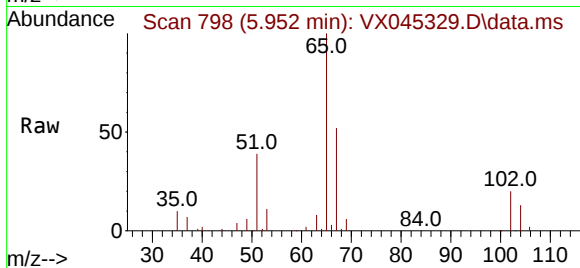
RE120D3-20250312

Tgt Ion: 65 Resp: 70329

Ion Ratio Lower Upper

65 100

67 51.4 0.0 106.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045329.D

Acq: 18 Mar 2025 16:47

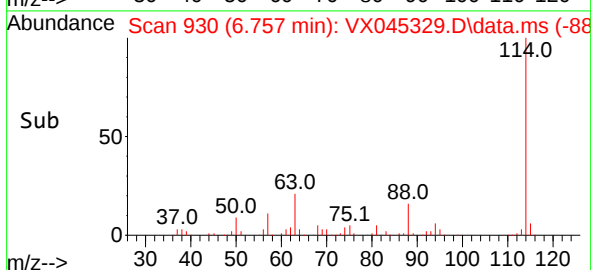
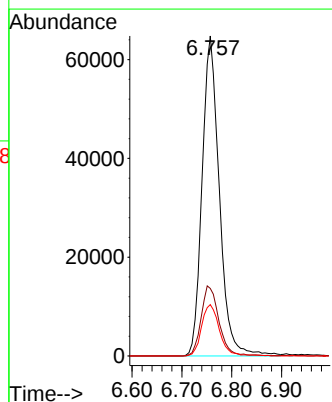
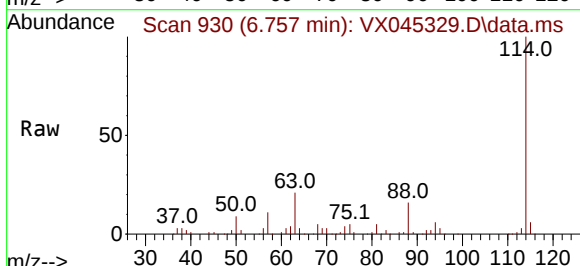
Tgt Ion: 114 Resp: 155733

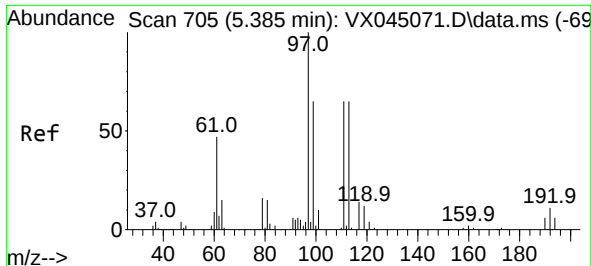
Ion Ratio Lower Upper

114 100

63 21.1 0.0 41.8

88 16.1 0.0 32.8





#35

Dibromofluoromethane

Concen: 52.668 ug/l

RT: 5.379 min Scan# 704

Delta R.T. -0.006 min

Lab File: VX045329.D

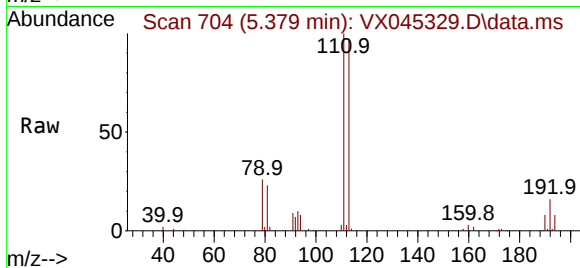
Acq: 18 Mar 2025 16:47

Instrument :

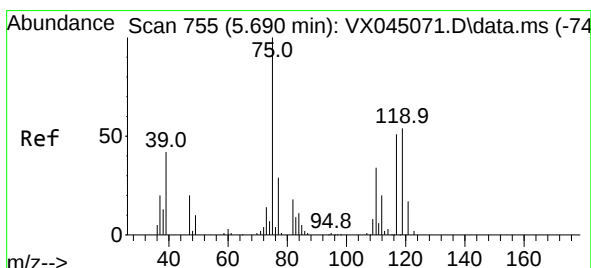
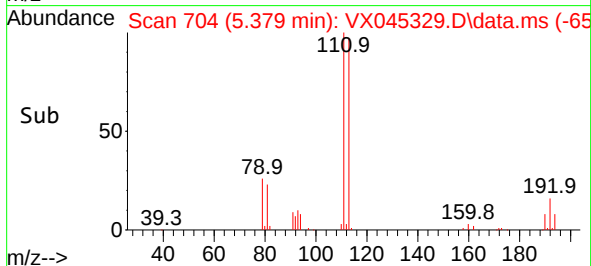
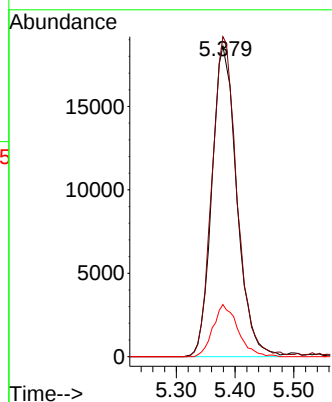
MSVOA\_X

ClientSampleId :

RE120D3-20250312



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 54846 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 102.9 | 81.8  | 122.6 |
| 192      | 16.8  | 14.3  | 21.5  |



#36

1,1-Dichloropropene

Concen: 5.252 ug/l

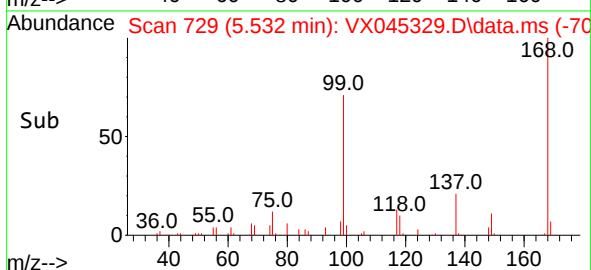
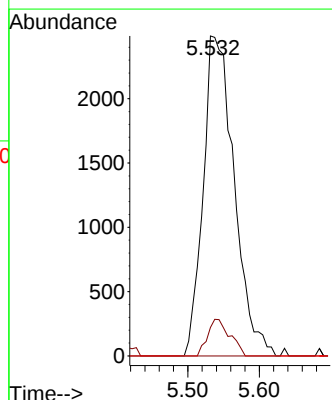
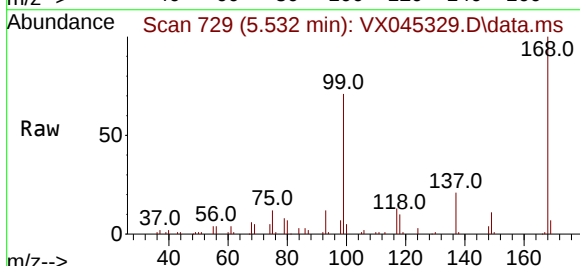
RT: 5.532 min Scan# 729

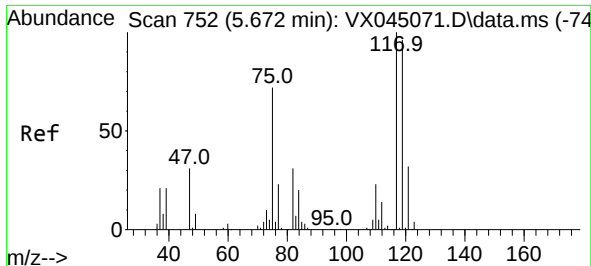
Delta R.T. -0.158 min

Lab File: VX045329.D

Acq: 18 Mar 2025 16:47

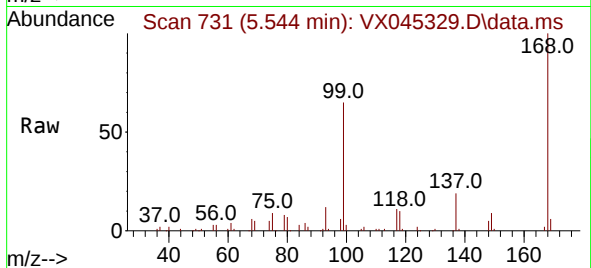
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 7501  |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 8.2   | 16.9  | 50.6# |
| 77       | 0.0   | 24.5  | 36.7# |



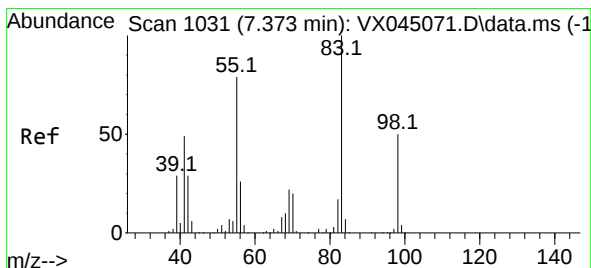
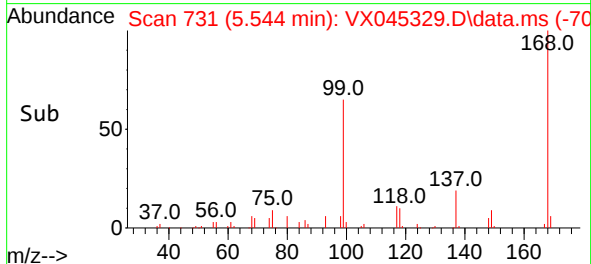
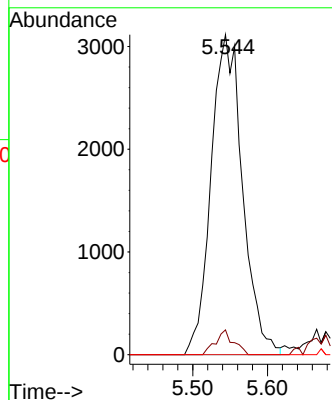


#38  
Carbon Tetrachloride  
Concen: 6.303 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D3-20250312

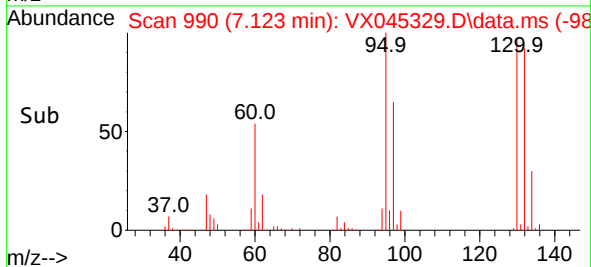
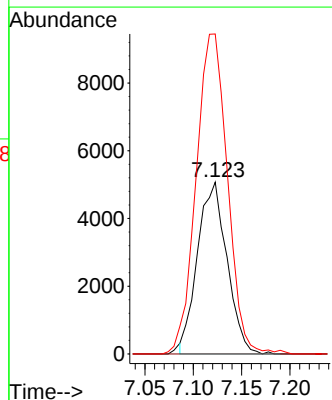
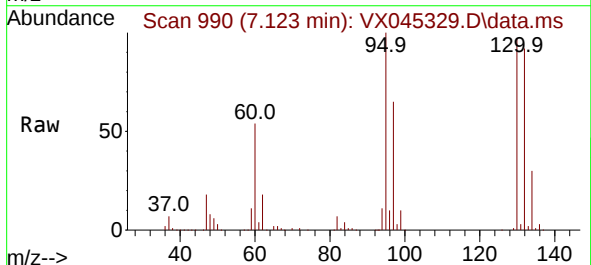


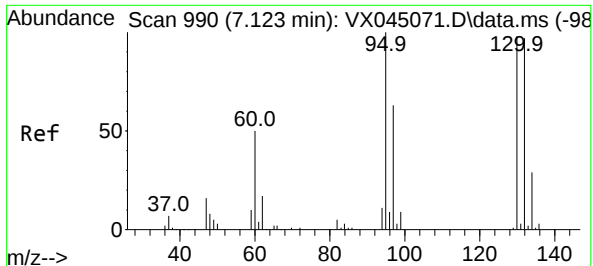
Tgt Ion:117 Resp: 9138  
Ion Ratio Lower Upper  
117 100  
119 7.8 76.7 115.1#  
121 0.0 25.5 38.3#



#39  
Methylcyclohexane  
Concen: 6.275 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.250 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

Tgt Ion: 83 Resp: 10738  
Ion Ratio Lower Upper  
83 100  
55 0.0 63.0 94.4#  
98 184.2 39.7 59.5#

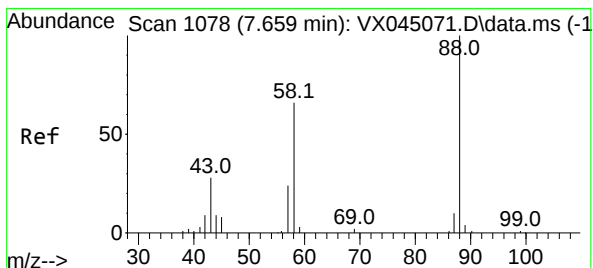
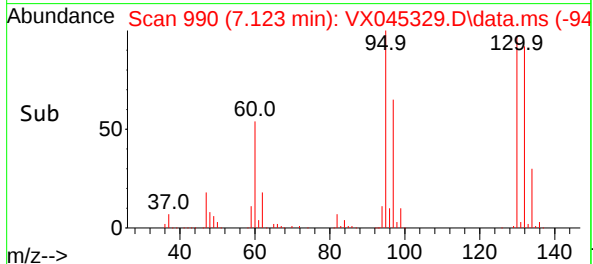
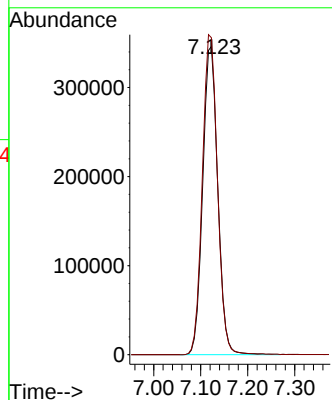
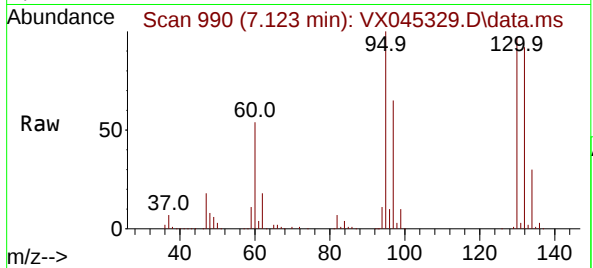




#44  
Trichloroethene  
Concen: 727.567 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. 0.000 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

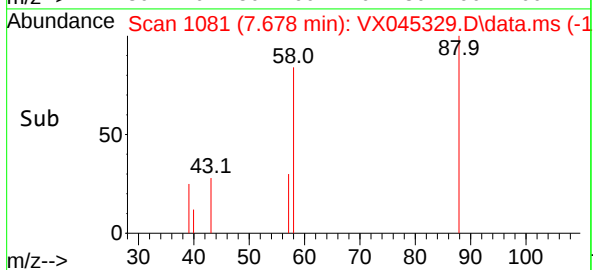
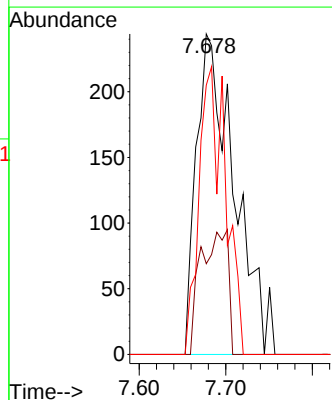
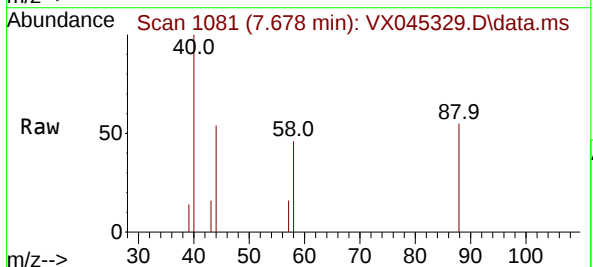
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D3-20250312

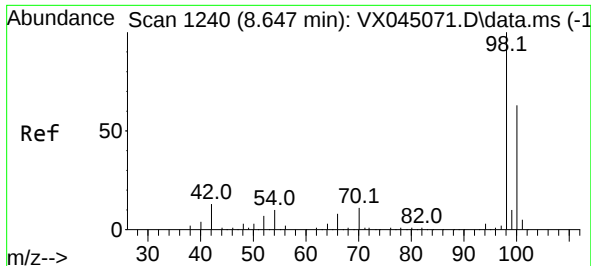
Tgt Ion:130 Resp: 770419  
Ion Ratio Lower Upper  
130 100  
95 102.9 0.0 205.0



#49  
1,4-Dioxane  
Concen: 25.802 ug/l  
RT: 7.678 min Scan# 1081  
Delta R.T. 0.018 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

Tgt Ion: 88 Resp: 743  
Ion Ratio Lower Upper  
88 100  
43 0.0 28.7 43.1#  
58 62.7 55.8 83.8

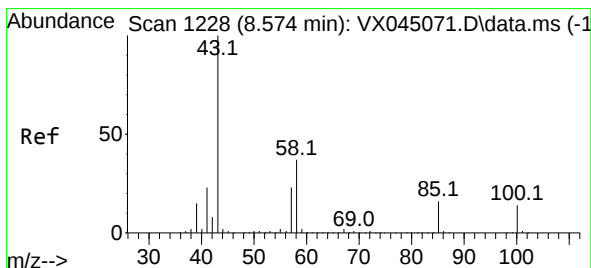
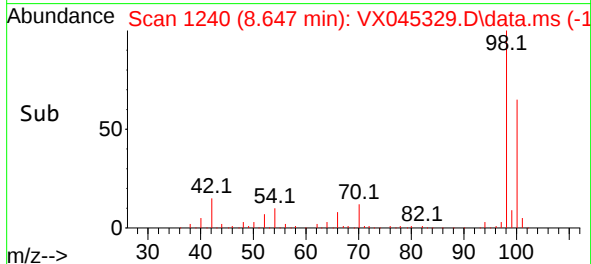
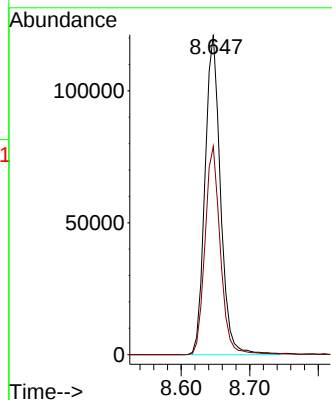
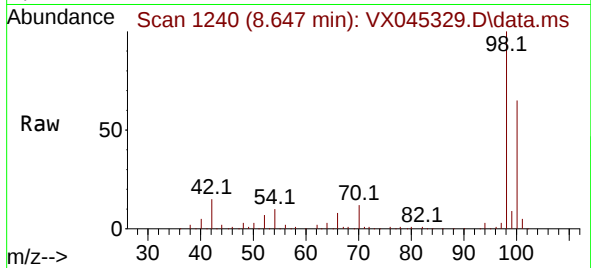




#50  
Toluene-d8  
Concen: 50.576 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

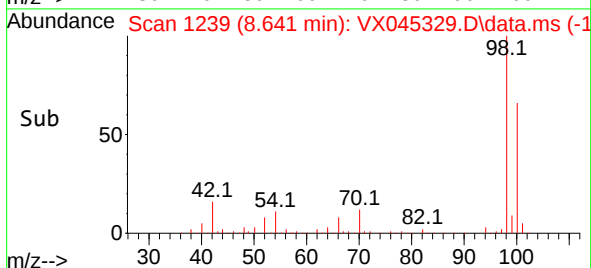
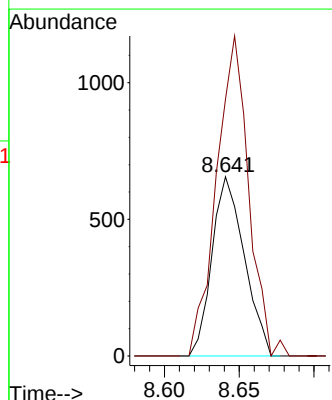
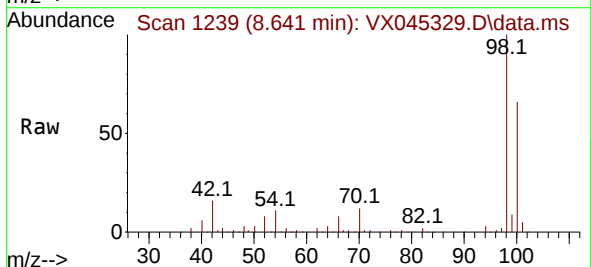
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D3-20250312

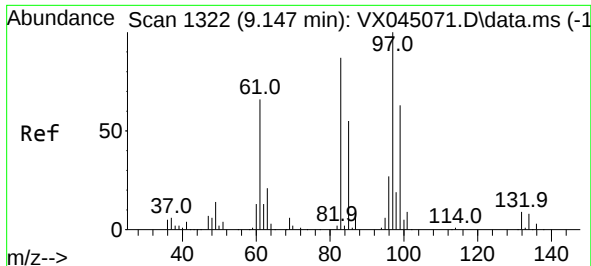
Tgt Ion: 98 Resp: 190937  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.0 78.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.540 ug/l  
RT: 8.641 min Scan# 1239  
Delta R.T. 0.067 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

Tgt Ion: 43 Resp: 986  
Ion Ratio Lower Upper  
43 100  
58 177.6 29.2 43.8#

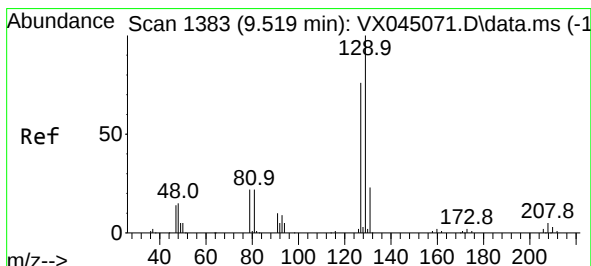
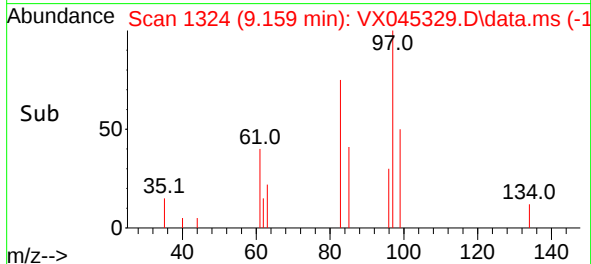
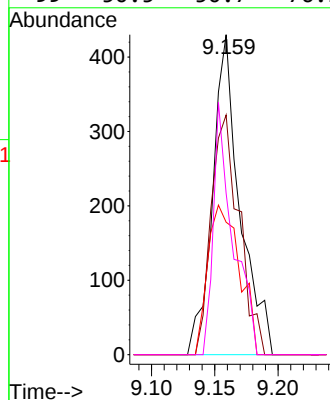
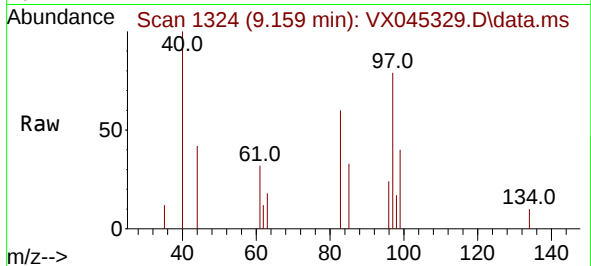




#55  
 1,1,2-Trichloroethane  
 Concen: 0.592 ug/l  
 RT: 9.159 min Scan# 11  
 Delta R.T. 0.012 min  
 Lab File: VX045329.D  
 Acq: 18 Mar 2025 16:47

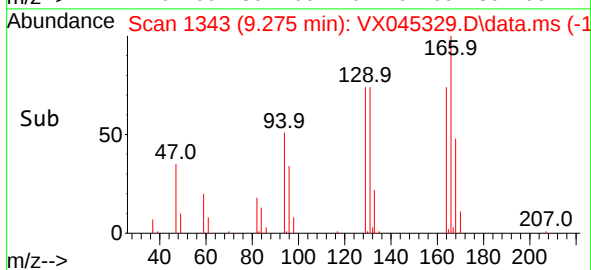
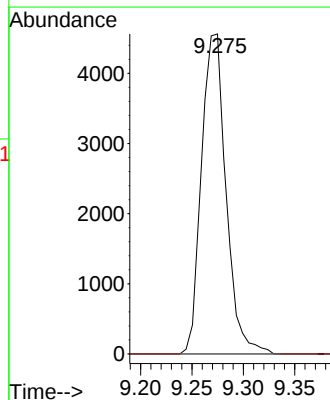
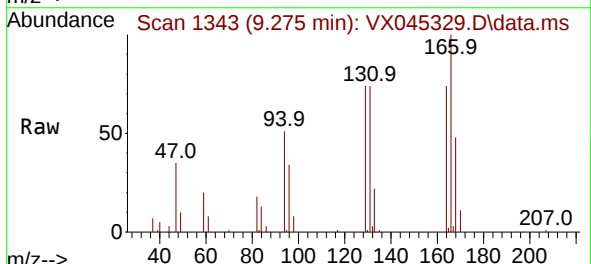
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE120D3-20250312

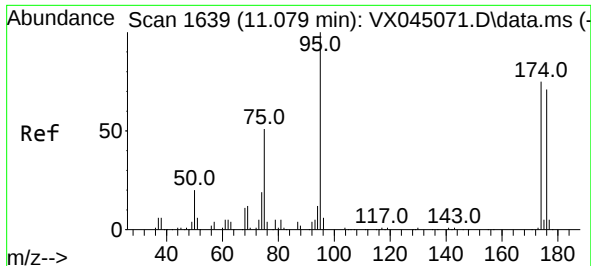
|             |             |
|-------------|-------------|
| Tgt Ion: 97 | Resp: 645   |
| Ion Ratio   | Lower Upper |
| 97 100      |             |
| 83 74.9     | 69.4 104.2  |
| 85 41.4     | 44.1 66.1#  |
| 99 50.5     | 50.7 76.1#  |



#60  
 Dibromochloromethane  
 Concen: 6.689 ug/l  
 RT: 9.275 min Scan# 1343  
 Delta R.T. -0.244 min  
 Lab File: VX045329.D  
 Acq: 18 Mar 2025 16:47

|             |       |       |        |
|-------------|-------|-------|--------|
| Tgt Ion:129 | Resp: | 7618  |        |
| Ion         | Ratio | Lower | Upper  |
| 129         | 100   |       |        |
| 127         | 0.0   | 38.5  | 115.5# |

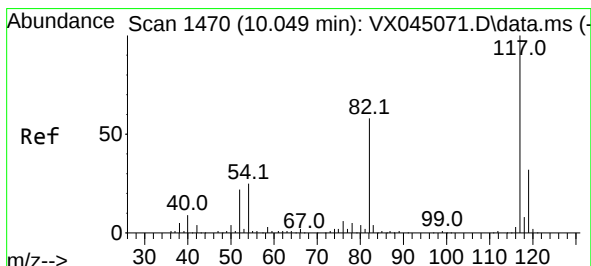
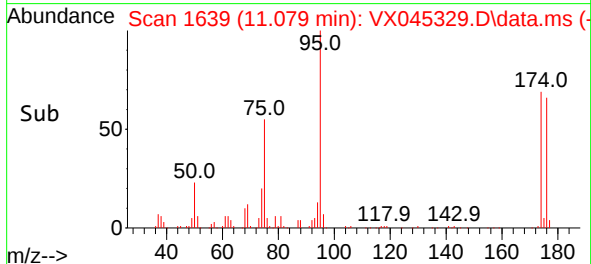
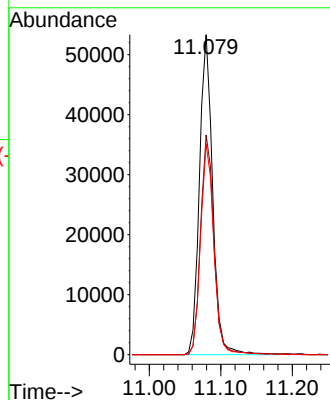
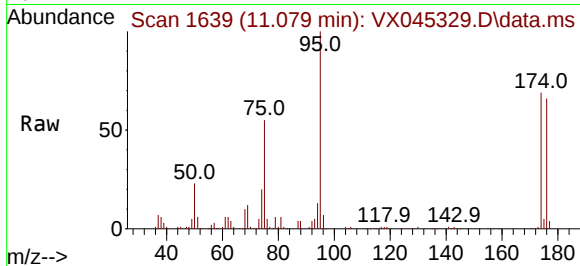




#62  
4-Bromofluorobenzene  
Concen: 54.513 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

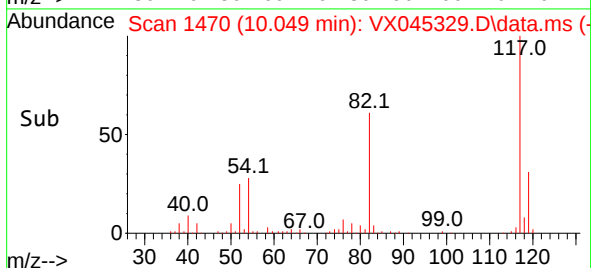
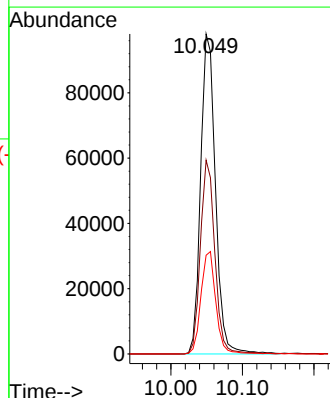
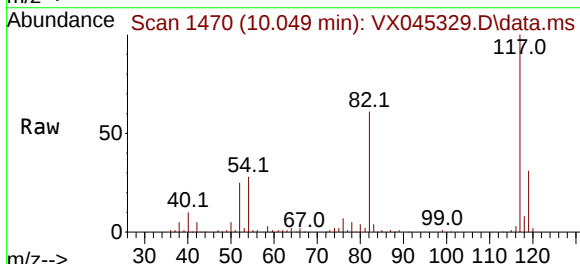
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D3-20250312

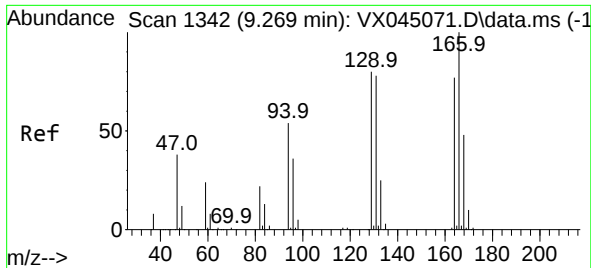
Tgt Ion: 95 Resp: 68196  
Ion Ratio Lower Upper  
95 100  
174 69.9 0.0 148.2  
176 66.6 0.0 141.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. 0.000 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

Tgt Ion: 117 Resp: 140928  
Ion Ratio Lower Upper  
117 100  
82 60.5 46.3 69.5  
119 30.9 25.7 38.5

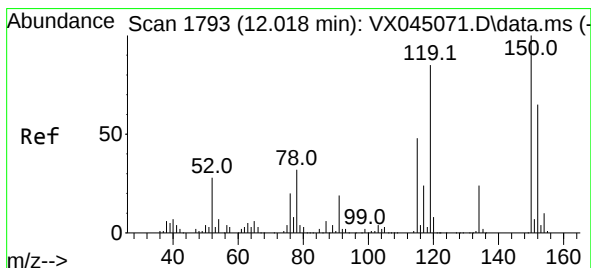
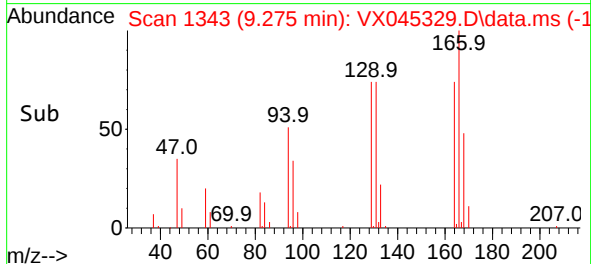
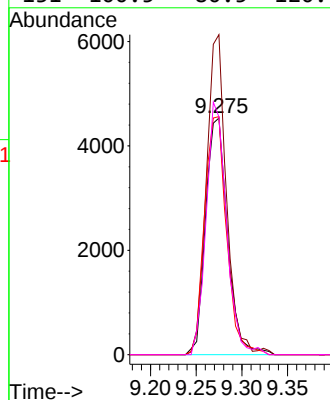
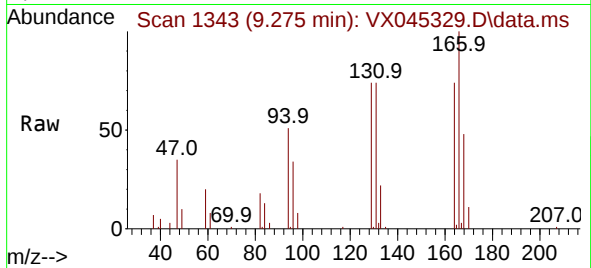




#64  
Tetrachloroethene  
Concen: 8.352 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

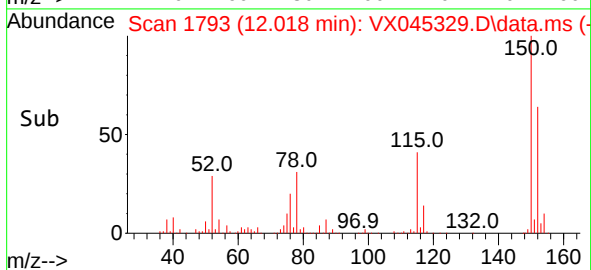
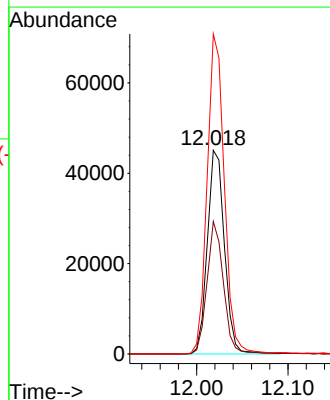
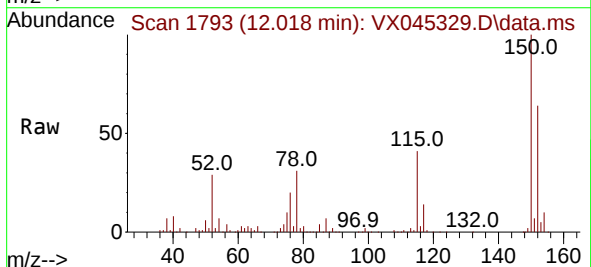
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D3-20250312

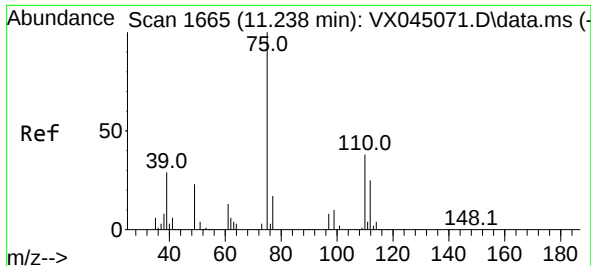
|     |         |       |       |
|-----|---------|-------|-------|
| Tgt | Ion:164 | Resp: | 7538  |
| Ion | Ratio   | Lower | Upper |
| 164 | 100     |       |       |
| 166 | 135.3   | 103.6 | 155.4 |
| 129 | 100.6   | 82.7  | 124.1 |
| 131 | 100.5   | 80.5  | 120.7 |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. 0.000 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

|             |       |       |       |
|-------------|-------|-------|-------|
| Tgt Ion:152 | Resp: | 58620 |       |
| Ion         | Ratio | Lower | Upper |
| 152         | 100   |       |       |
| 115         | 62.3  | 44.2  | 132.6 |
| 150         | 157.7 | 0.0   | 349.0 |

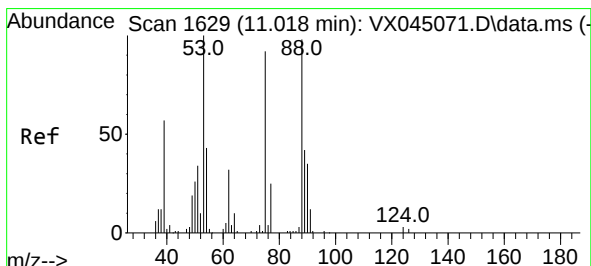
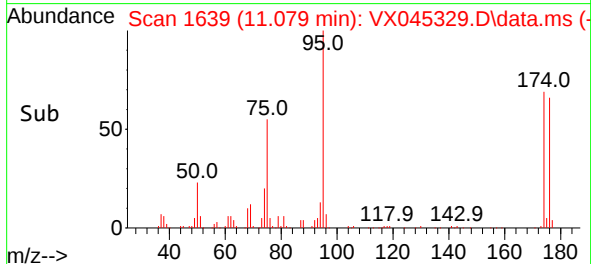
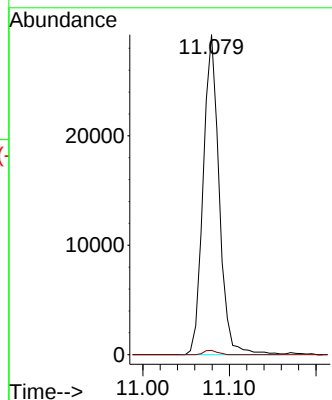
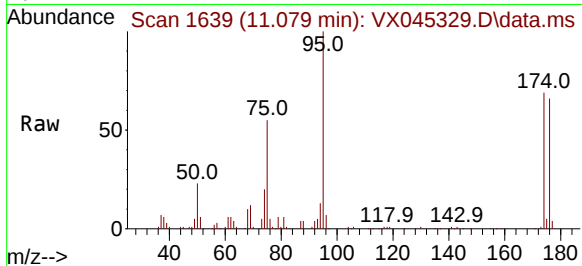




#76  
1,2,3-Trichloropropane  
Concen: 27.480 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE120D3-20250312

Tgt Ion: 75 Resp: 37493  
Ion Ratio Lower Upper  
75 100  
77 1.2 20.7 62.1#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 94.041 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX045329.D  
Acq: 18 Mar 2025 16:47

Tgt Ion: 75 Resp: 37493  
Ion Ratio Lower Upper  
75 100  
53 0.0 88.5 132.7#  
89 0.0 36.2 54.4#

