

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX120321\  
 Data File : VX025493.D  
 Acq On : 03 Dec 2021 19:26  
 Operator : JC/MD  
 Sample : M4924-07  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 25 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 RE135D3-20211202

Quant Time: Dec 04 06:53:42 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111721W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 17 15:36:16 2021  
 Response via : Initial Calibration

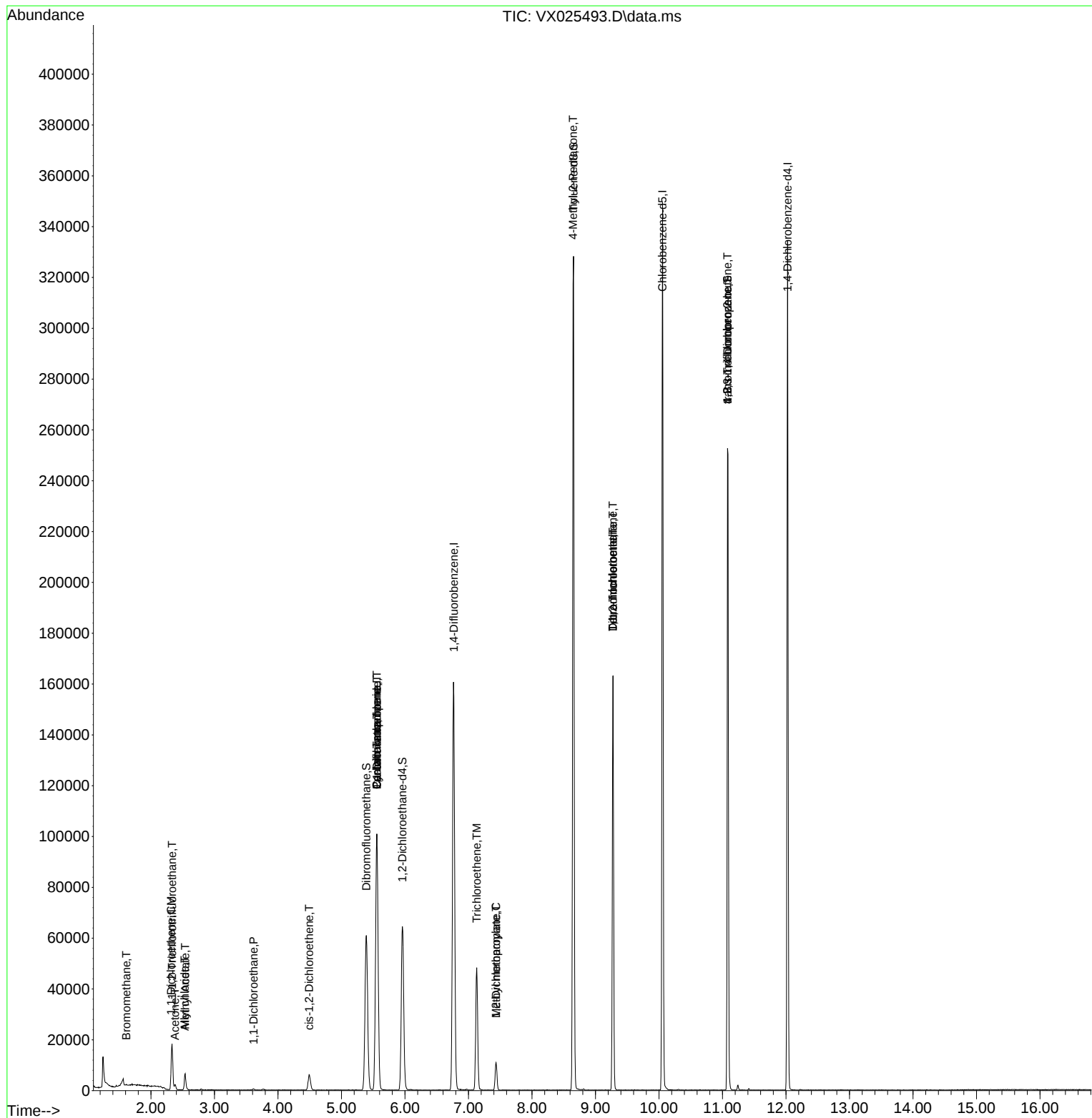
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 100455   | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 173347   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 156581   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 68825    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 60904    | 57.518    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 115.040% |
| 35) Dibromofluoromethane      | 5.391  | 113   | 53283    | 50.097    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 100.200% |
| 50) Toluene-d8                | 8.653  | 98    | 199825   | 49.969    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 99.940%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 70560    | 46.640    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 93.280%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 5) Bromomethane               | 1.612  | 94    | 102      | 0.200     | ug/l # | 63       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.331  | 101   | 6828     | 7.304     | ug/l   | 99       |
| 12) 1,1-Dichloroethene        | 2.319  | 96    | 504      | 0.541     | ug/l # | 70       |
| 14) Allyl chloride            | 2.532  | 41    | 571      | 0.339     | ug/l # | 59       |
| 16) Acetone                   | 2.380  | 43    | 2205     | 3.748     | ug/l   | 92       |
| 18) Methyl Acetate            | 2.538  | 43    | 1889     | 1.005     | ug/l # | 52       |
| 24) 1,1-Dichloroethane        | 3.617  | 63    | 557      | 0.318     | ug/l # | 83       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96    | 3997     | 3.356     | ug/l   | 85       |
| 31) Cyclohexane               | 5.556  | 56    | 1744     | 1.066     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 6965     | 4.605     | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 9533     | 5.723     | ug/l # | 16       |
| 44) Trichloroethene           | 7.129  | 130   | 19545    | 14.685    | ug/l   | 90       |
| 45) 1,2-Dichloropropane       | 7.434  | 63    | 4463     | 3.966     | ug/l   | 95       |
| 48) Methyl methacrylate       | 7.434  | 41    | 2129     | 1.584     | ug/l # | 36       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 891      | 0.496     | ug/l # | 1        |
| 55) 1,1,2-Trichloroethane     | 9.275  | 97    | 240      | 0.202     | ug/l # | 30       |
| 60) Dibromochloromethane      | 9.275  | 129   | 26737    | 19.541    | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275  | 164   | 29724    | 23.021    | ug/l   | 92       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 33918    | 24.066    | ug/l # | 37       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 33918    | 60.626    | ug/l # | 9        |
| 95) Naphthalene               | 13.780 | 128   | 22       | Below Cal | #      | 69       |
| -----                         |        |       |          |           |        |          |

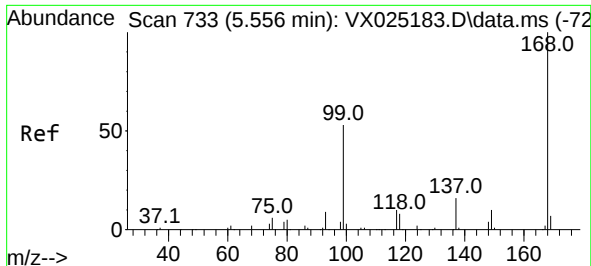
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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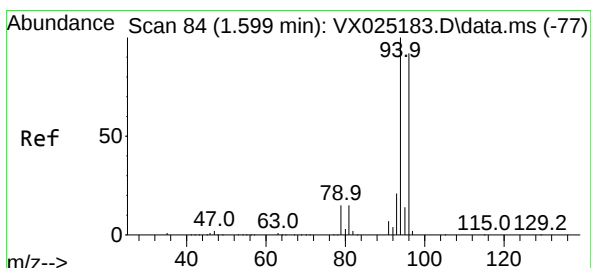
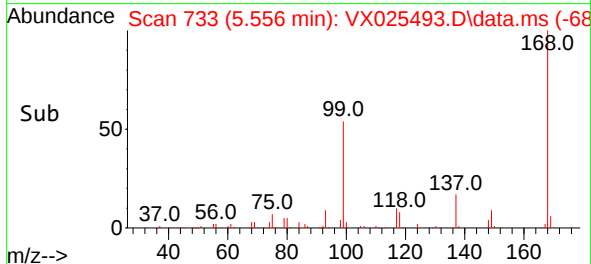
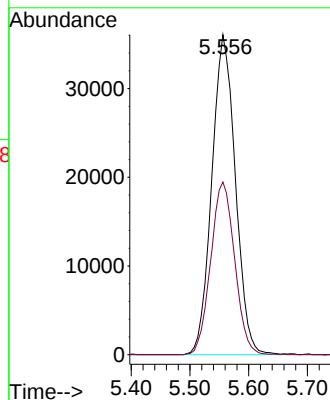
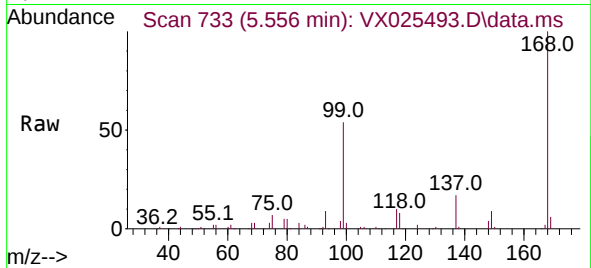




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

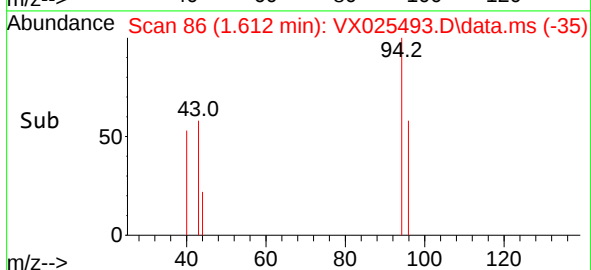
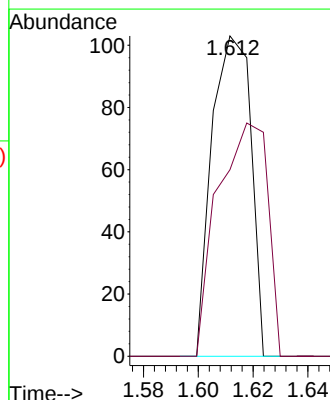
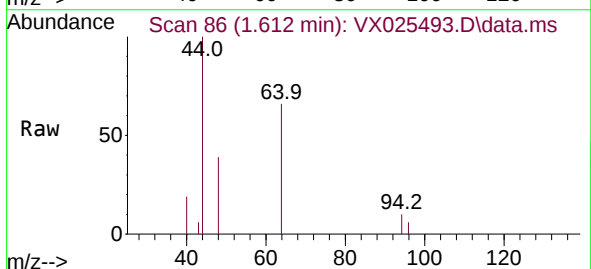
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20211202

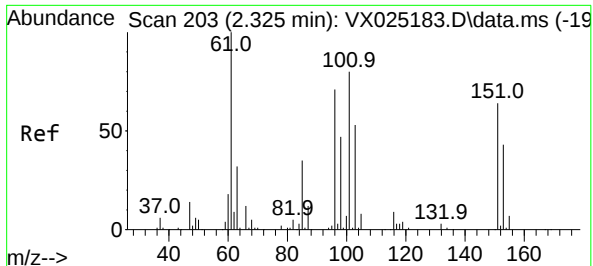
Tgt Ion:168 Resp: 100455  
Ion Ratio Lower Upper  
168 100  
99 54.0 46.4 69.6



#5  
Bromomethane  
Concen: 0.200 ug/l  
RT: 1.612 min Scan# 86  
Delta R.T. 0.013 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

Tgt Ion: 94 Resp: 102  
Ion Ratio Lower Upper  
94 100  
96 58.3 74.8 112.2#

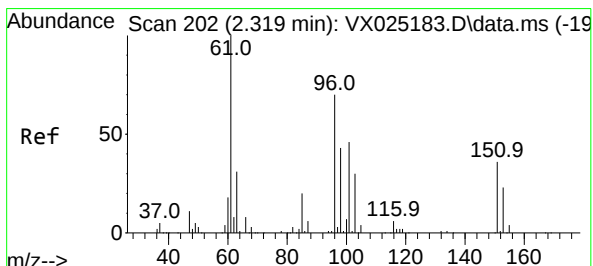
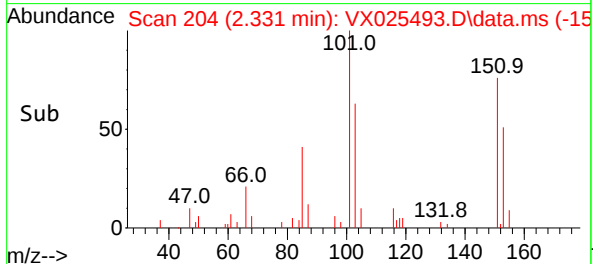
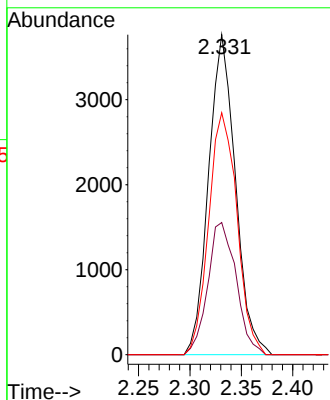
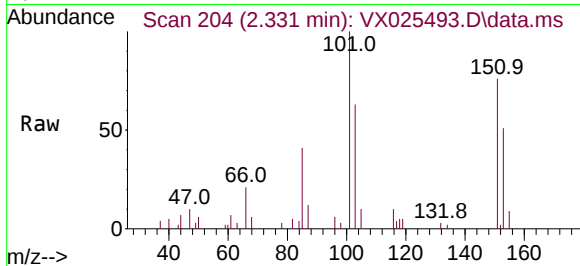




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 7.304 ug/l  
RT: 2.331 min Scan# 20  
Delta R.T. 0.006 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

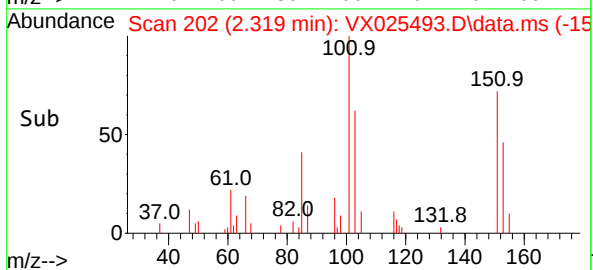
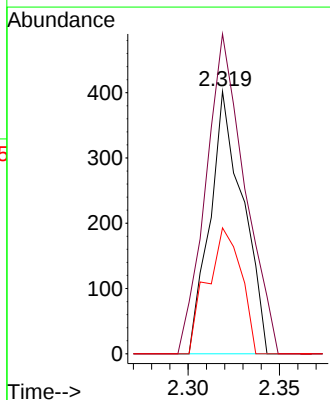
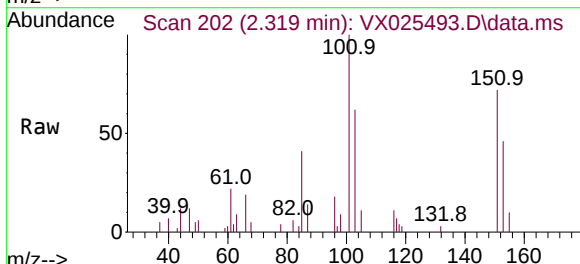
Instrument :  
MSVOA\_X  
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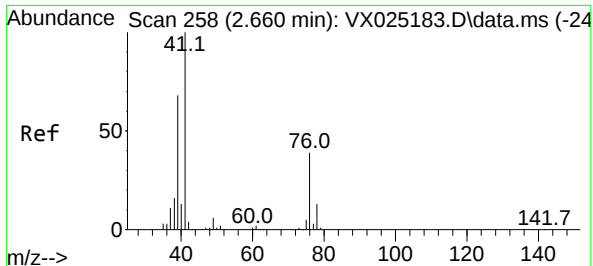
Tgt Ion:101 Resp: 6828  
Ion Ratio Lower Upper  
101 100  
85 43.6 35.9 53.9  
151 79.7 64.4 96.6



#12  
1,1-Dichloroethene  
Concen: 0.541 ug/l  
RT: 2.319 min Scan# 202  
Delta R.T. -0.000 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

Tgt Ion: 96 Resp: 504  
Ion Ratio Lower Upper  
96 100  
61 121.9 134.1 201.1#  
98 48.0 51.5 77.3#





#14

Allyl chloride

Concen: 0.339 ug/l

RT: 2.532 min Scan# 21

Delta R.T. -0.128 min

Lab File: VX025493.D

Acq: 03 Dec 2021 19:26

Instrument :

MSVOA\_X

ClientSampleId :

RE135D3-20211202

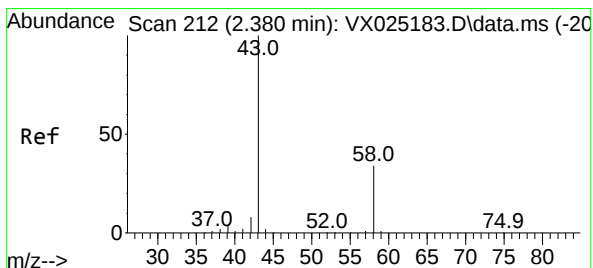
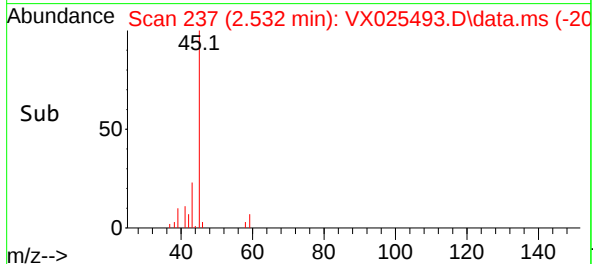
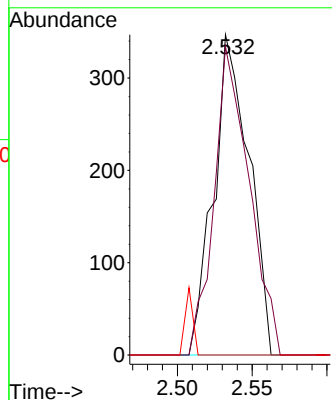
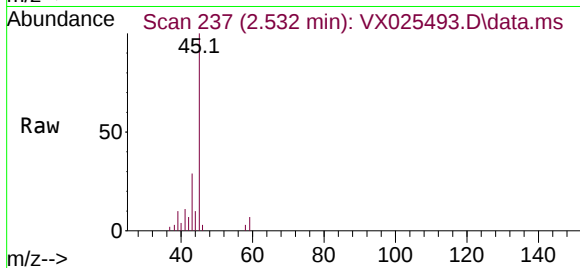
Tgt Ion: 41 Resp: 571

Ion Ratio Lower Upper

41 100

39 95.4 54.6 82.0#

76 0.0 25.3 37.9#



#16

Acetone

Concen: 3.748 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX025493.D

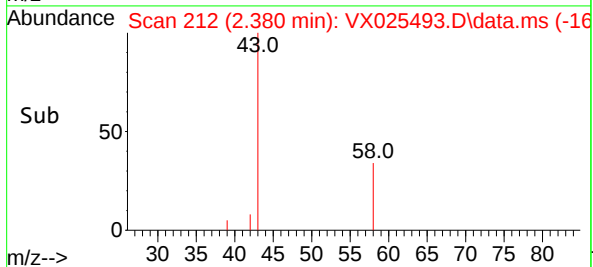
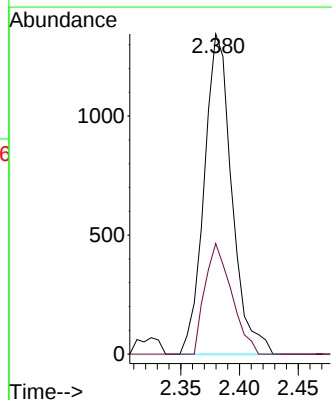
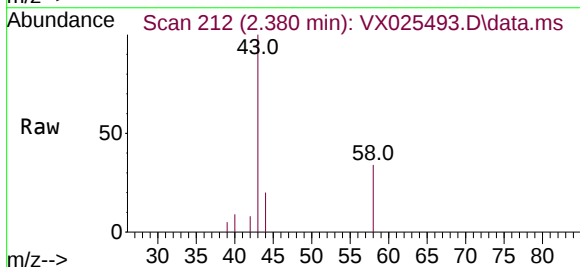
Acq: 03 Dec 2021 19:26

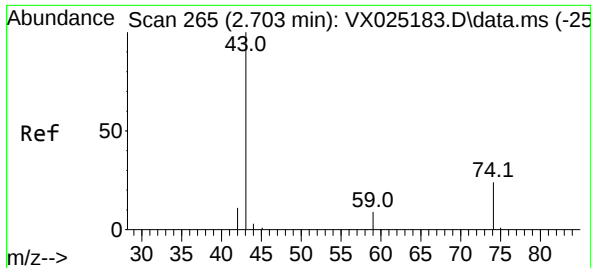
Tgt Ion: 43 Resp: 2205

Ion Ratio Lower Upper

43 100

58 34.5 24.0 36.0

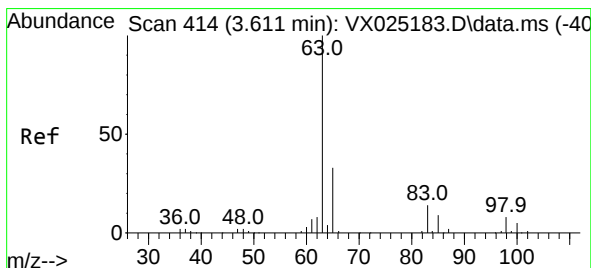
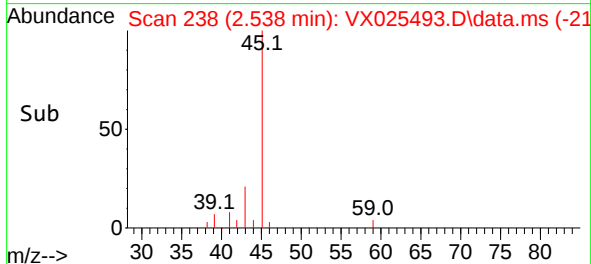
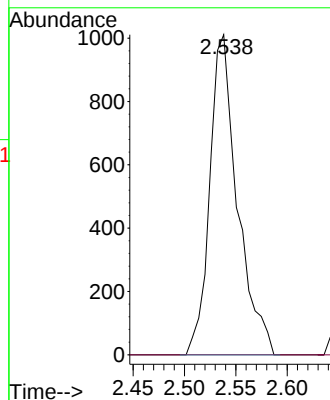
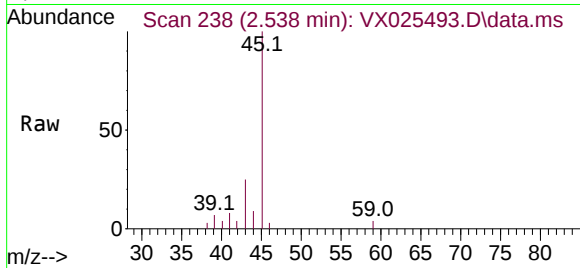




#18  
Methyl Acetate  
Concen: 1.005 ug/l  
RT: 2.538 min Scan# 21  
Delta R.T. -0.165 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

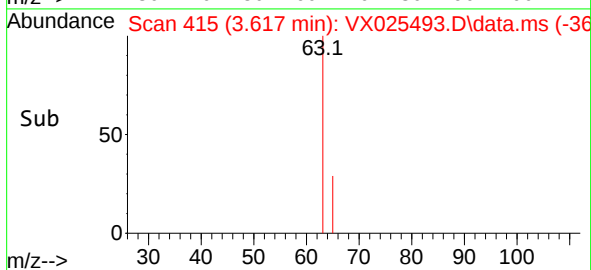
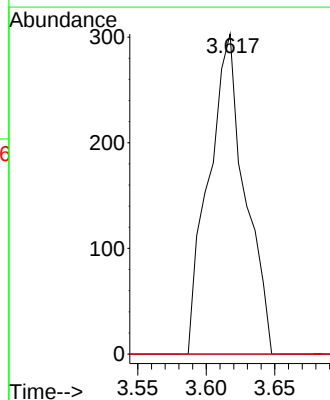
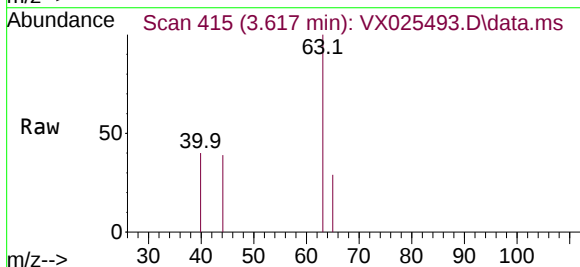
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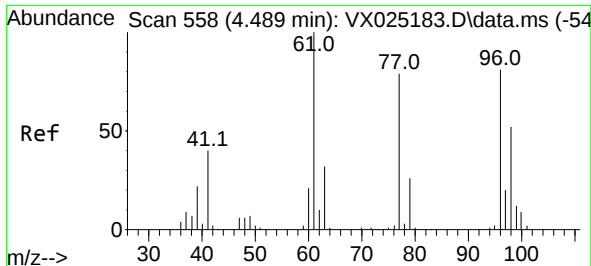
Tgt Ion: 43 Resp: 1889  
Ion Ratio Lower Upper  
43 100  
74 0.0 19.0 28.6#



#24  
1,1-Dichloroethane  
Concen: 0.318 ug/l  
RT: 3.617 min Scan# 415  
Delta R.T. 0.006 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

Tgt Ion: 63 Resp: 557  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.3 9.9#  
100 0.0 2.1 6.2#

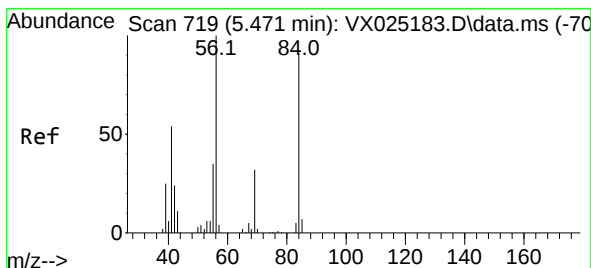
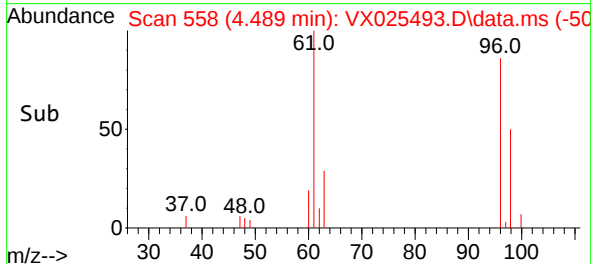
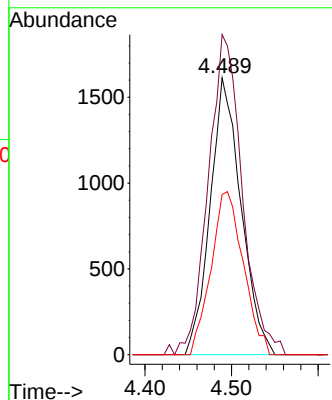
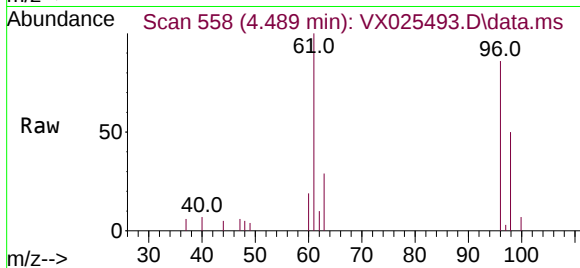




#27  
 cis-1,2-Dichloroethene  
 Concen: 3.356 ug/l  
 RT: 4.489 min Scan# 51  
 Delta R.T. 0.000 min  
 Lab File: VX025493.D  
 Acq: 03 Dec 2021 19:26

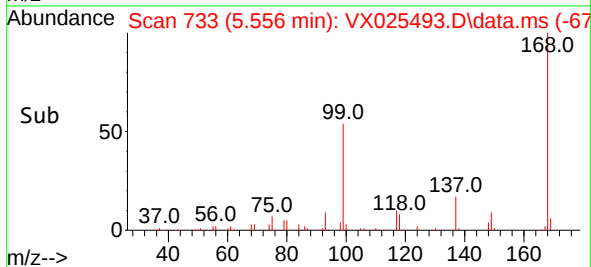
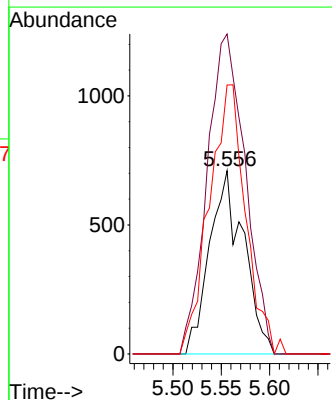
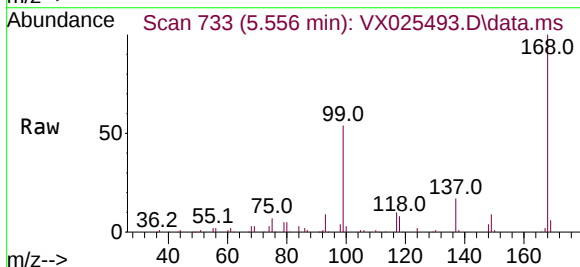
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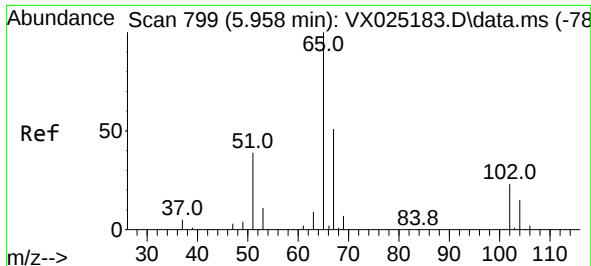
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|-------------|-------|-------|-------|
| Tgt Ion: 96 | Resp: | 3997  |       |
| Ion         | Ratio | Lower | Upper |
| 96          | 100   |       |       |
| 61          | 127.2 | 0.0   | 302.2 |
| 98          | 61.6  | 0.0   | 131.4 |



#31  
 Cyclohexane  
 Concen: 1.066 ug/l  
 RT: 5.556 min Scan# 733  
 Delta R.T. 0.085 min  
 Lab File: VX025493.D  
 Acq: 03 Dec 2021 19:26

|             |       |       |        |
|-------------|-------|-------|--------|
| Tgt Ion: 56 | Resp: | 1744  |        |
| Ion         | Ratio | Lower | Upper  |
| 56          | 100   |       |        |
| 69          | 174.6 | 24.2  | 36.2#  |
| 84          | 146.8 | 71.5  | 107.3# |





#33

1,2-Dichloroethane-d4

Concen: 57.518 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX025493.D

Acq: 03 Dec 2021 19:26

Instrument :

MSVOA\_X

ClientSampleId :

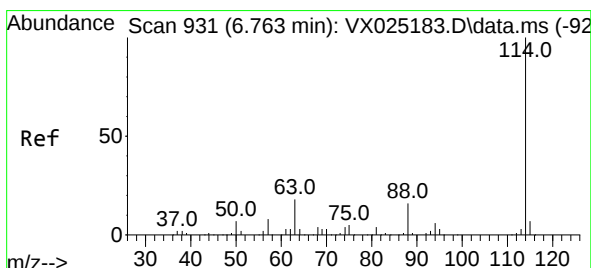
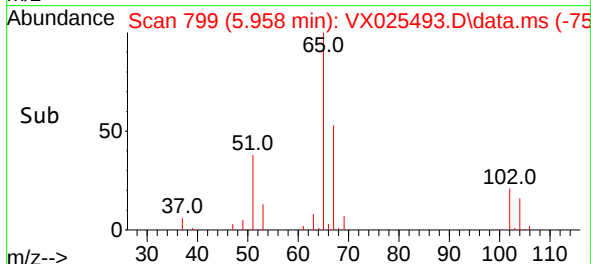
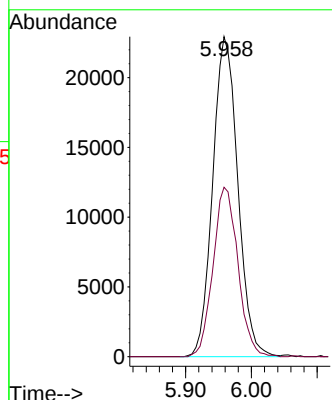
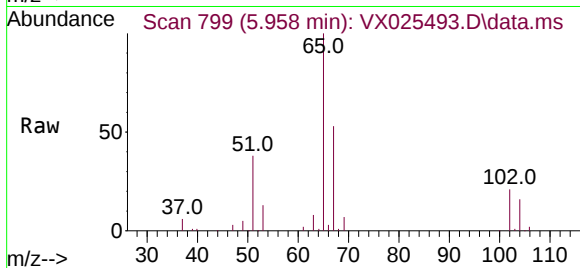
RE135D3-20211202

Tgt Ion: 65 Resp: 60904

Ion Ratio Lower Upper

65 100

67 52.5 0.0 101.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.769 min Scan# 932

Delta R.T. 0.006 min

Lab File: VX025493.D

Acq: 03 Dec 2021 19:26

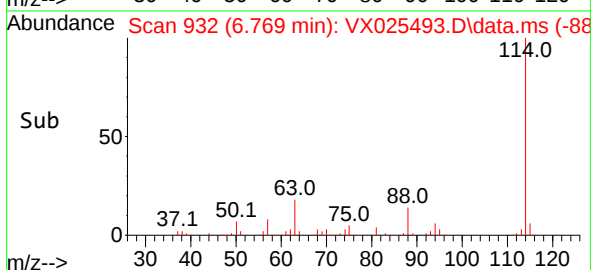
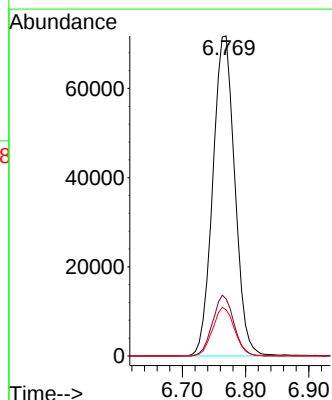
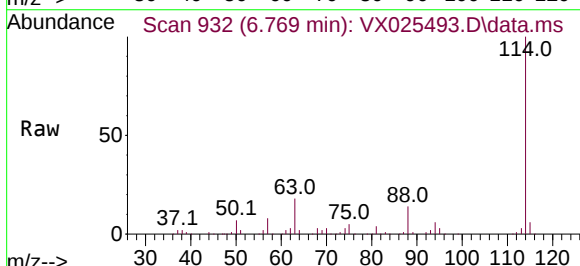
Tgt Ion: 114 Resp: 173347

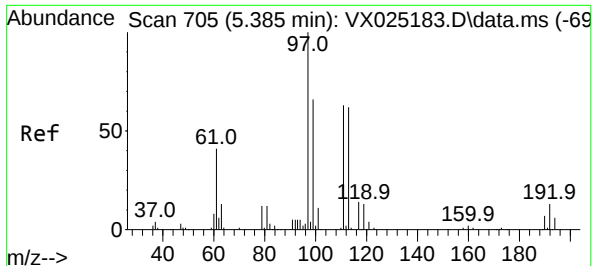
Ion Ratio Lower Upper

114 100

63 17.9 0.0 41.0

88 14.4 0.0 34.8

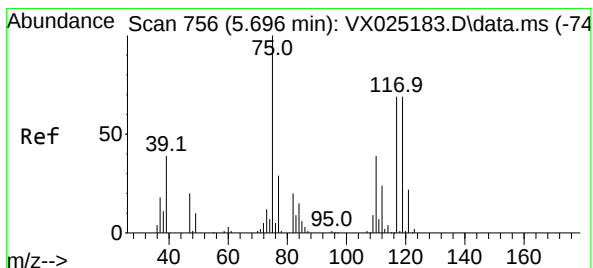
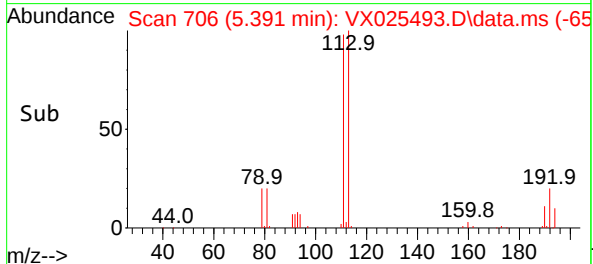
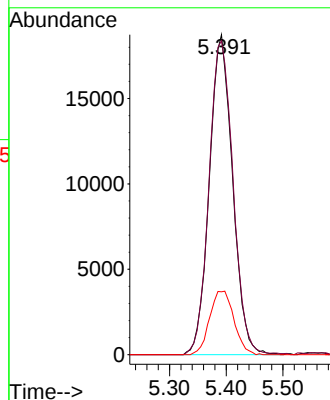
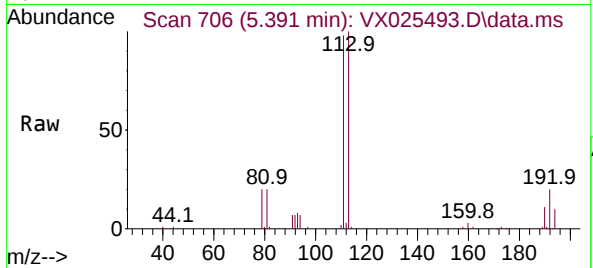




#35  
Dibromofluoromethane  
Concen: 50.097 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

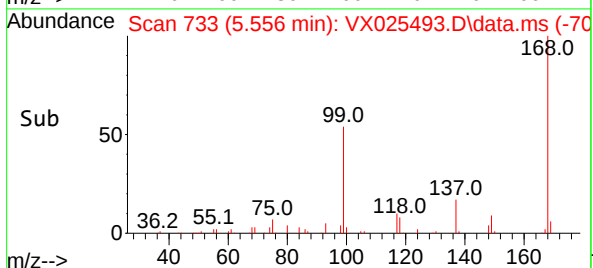
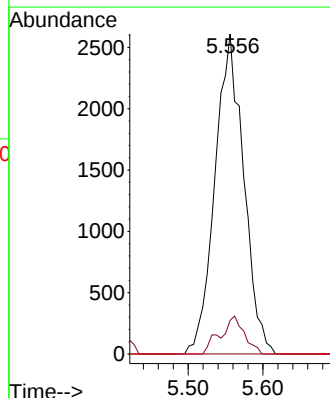
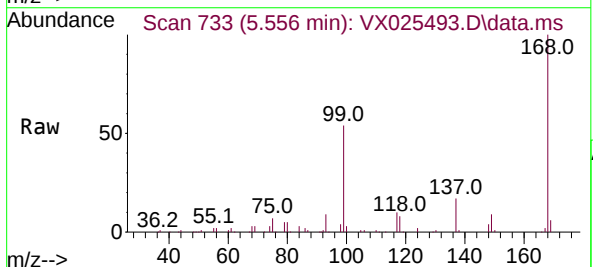
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20211202

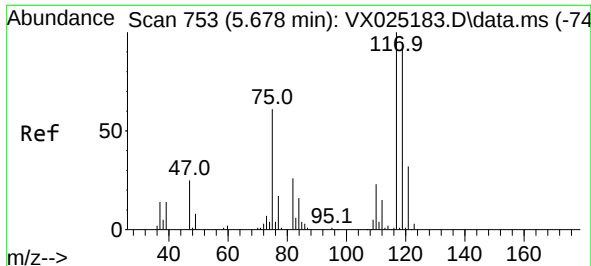
Tgt Ion:113 Resp: 53283  
Ion Ratio Lower Upper  
113 100  
111 101.8 82.1 123.1  
192 20.8 15.6 23.4



#36  
1,1-Dichloropropene  
Concen: 4.605 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.140 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

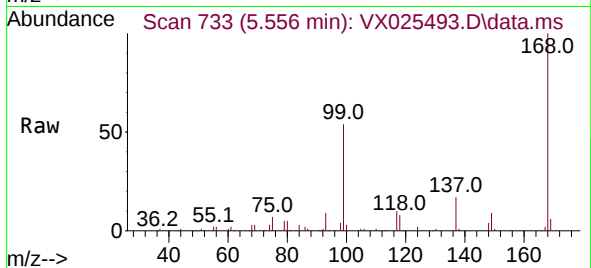
Tgt Ion: 75 Resp: 6965  
Ion Ratio Lower Upper  
75 100  
110 9.9 18.1 54.3#  
77 0.0 24.4 36.6#



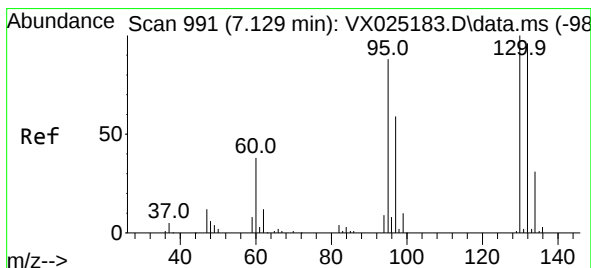
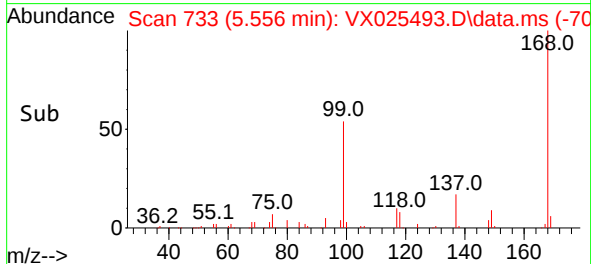
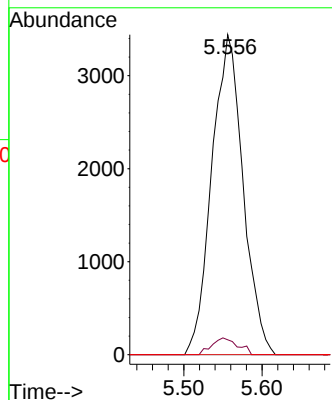


#38  
Carbon Tetrachloride  
Concen: 5.723 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.122 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20211202

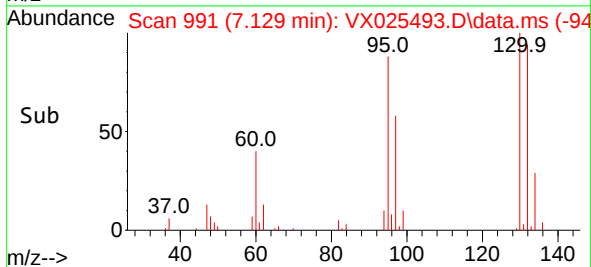
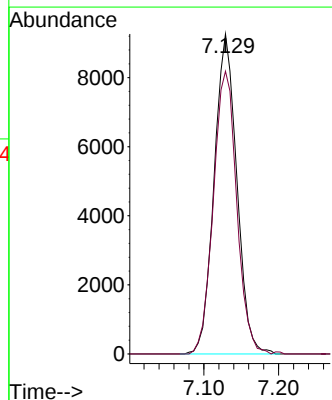
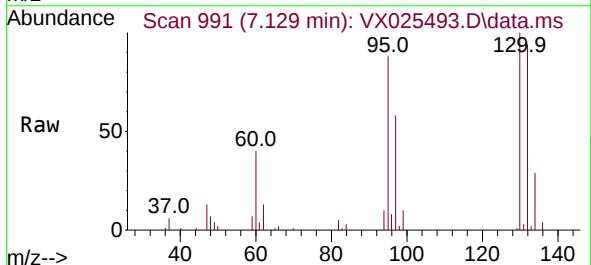


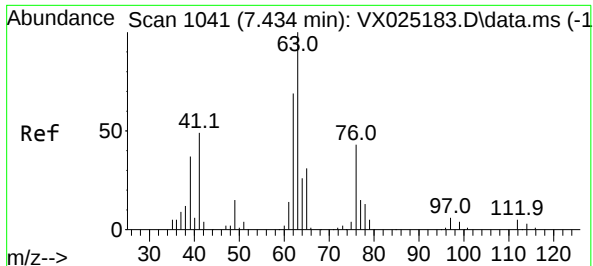
Tgt Ion:117 Resp: 9533  
Ion Ratio Lower Upper  
117 100  
119 4.7 75.6 113.4#  
121 0.0 23.7 35.5#



#44  
Trichloroethene  
Concen: 14.685 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. -0.000 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

Tgt Ion:130 Resp: 19545  
Ion Ratio Lower Upper  
130 100  
95 88.4 0.0 196.8





#45

1,2-Dichloropropane

Concen: 3.966 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.000 min

Lab File: VX025493.D

Acq: 03 Dec 2021 19:26

Instrument :

MSVOA\_X

ClientSampleId :

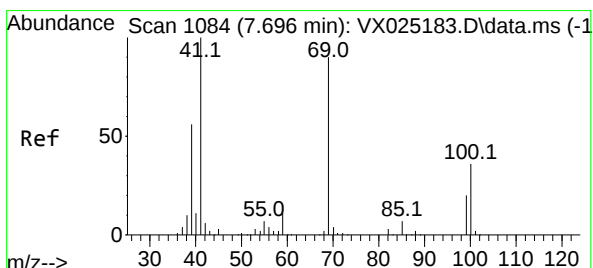
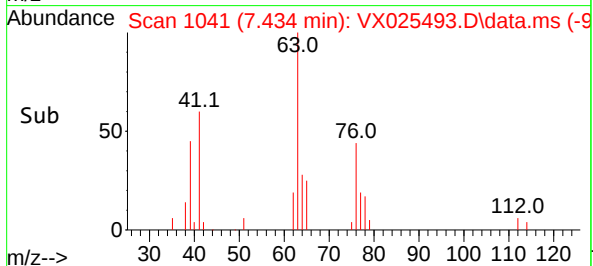
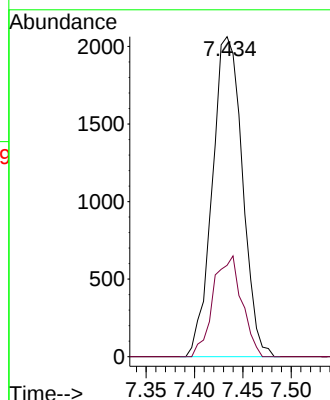
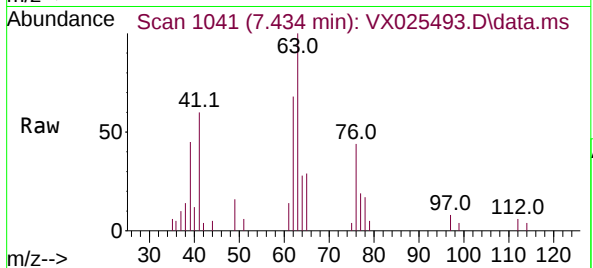
RE135D3-20211202

Tgt Ion: 63 Resp: 4463

Ion Ratio Lower Upper

63 100

65 28.6 25.1 37.7



#48

Methyl methacrylate

Concen: 1.584 ug/l

RT: 7.434 min Scan# 1041

Delta R.T. -0.262 min

Lab File: VX025493.D

Acq: 03 Dec 2021 19:26

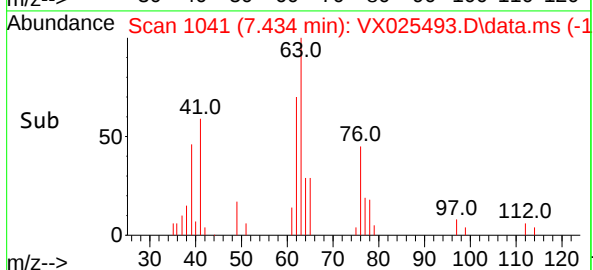
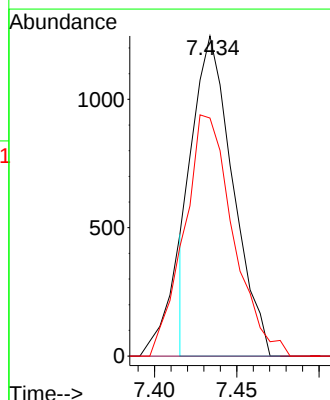
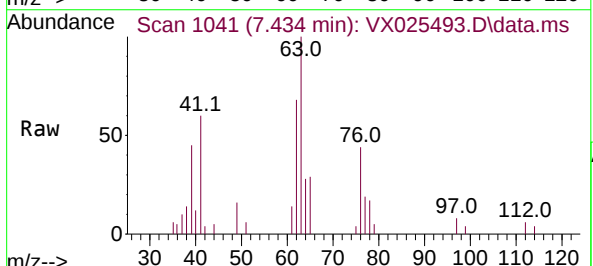
Tgt Ion: 41 Resp: 2129

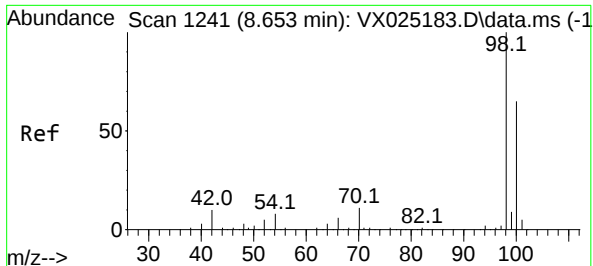
Ion Ratio Lower Upper

41 100

69 0.0 64.5 96.7#

39 78.7 46.9 70.3#

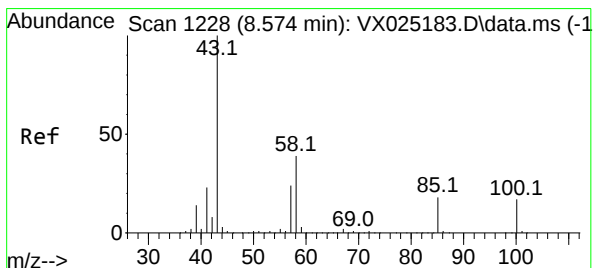
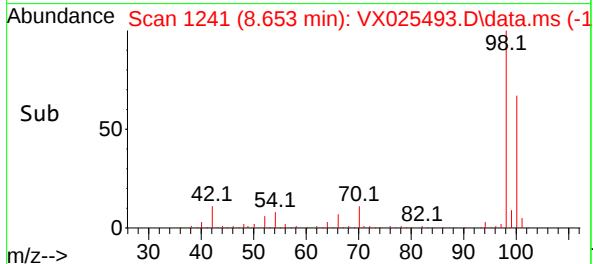
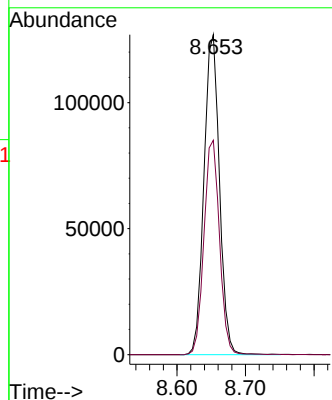
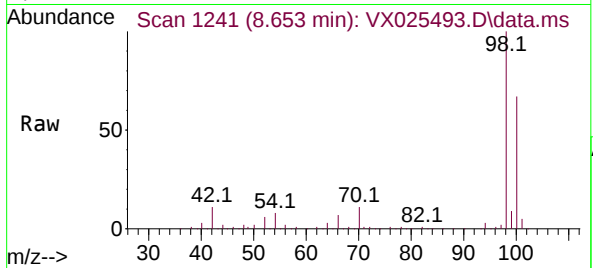




#50  
Toluene-d8  
Concen: 49.969 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

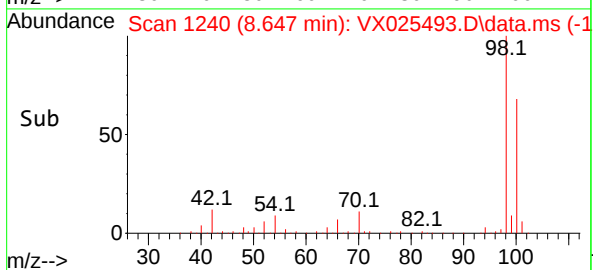
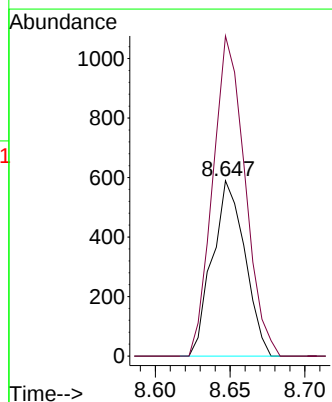
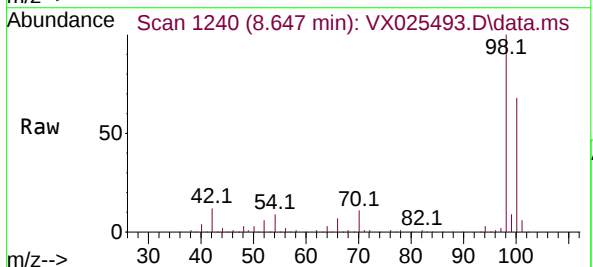
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20211202

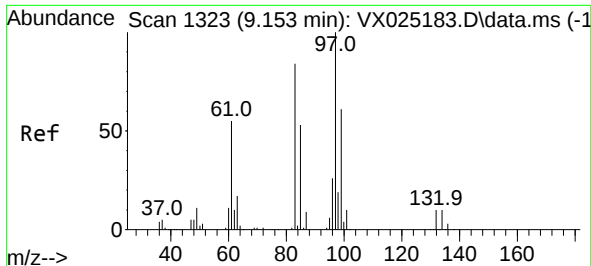
Tgt Ion: 98 Resp: 199825  
Ion Ratio Lower Upper  
98 100  
100 67.2 51.4 77.0



#51  
4-Methyl-2-Pentanone  
Concen: 0.496 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.073 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

Tgt Ion: 43 Resp: 891  
Ion Ratio Lower Upper  
43 100  
58 180.7 30.9 46.3#





#55

1,1,2-Trichloroethane

Concen: 0.202 ug/l

RT: 9.275 min Scan# 1

Delta R.T. 0.122 min

Lab File: VX025493.D

Acq: 03 Dec 2021 19:26

Instrument :

MSVOA\_X

ClientSampleId :

RE135D3-20211202

Tgt Ion: 97 Resp: 240

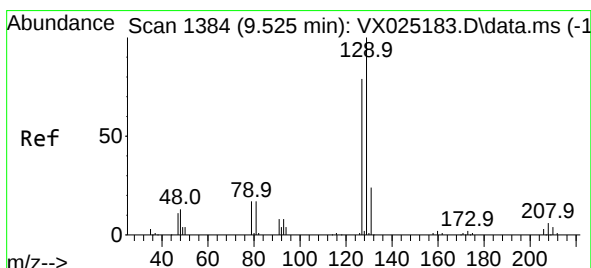
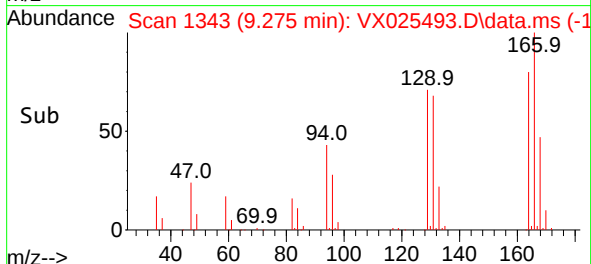
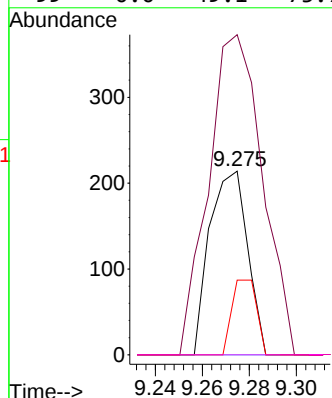
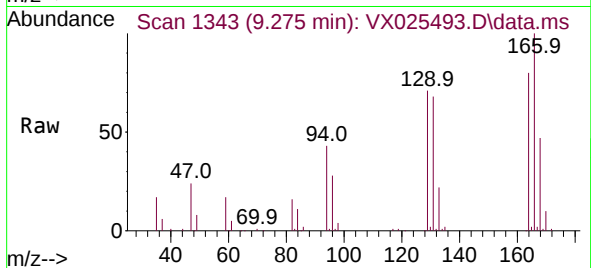
Ion Ratio Lower Upper

97 100

83 174.3 69.2 103.8#

85 40.7 43.3 64.9#

99 0.0 49.1 73.7#



#60

Dibromochloromethane

Concen: 19.541 ug/l

RT: 9.275 min Scan# 1343

Delta R.T. -0.250 min

Lab File: VX025493.D

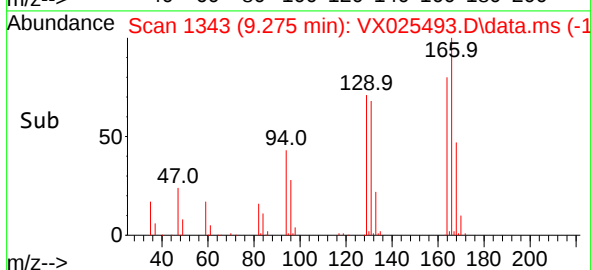
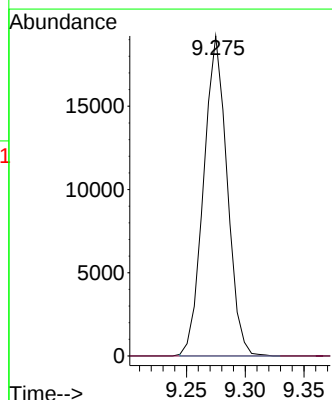
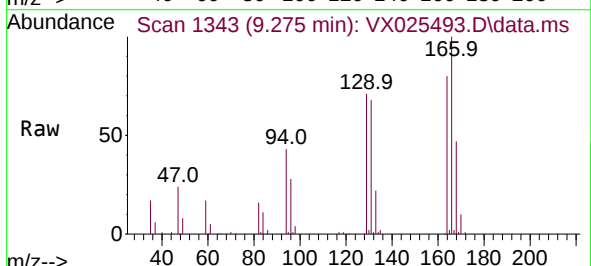
Acq: 03 Dec 2021 19:26

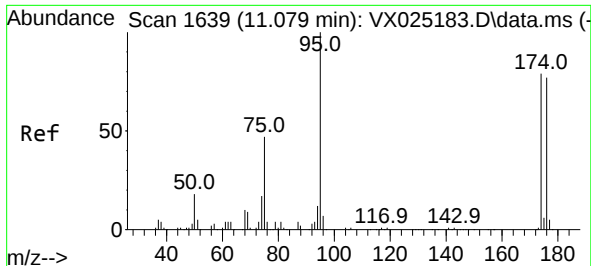
Tgt Ion:129 Resp: 26737

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.5#

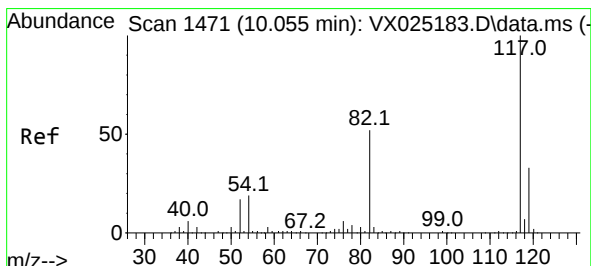
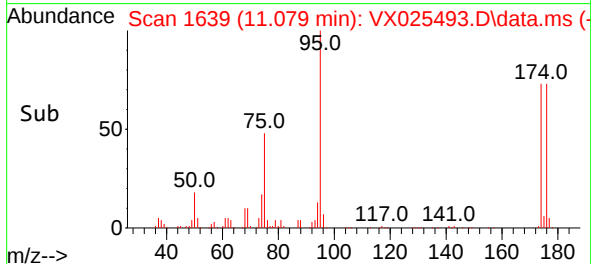
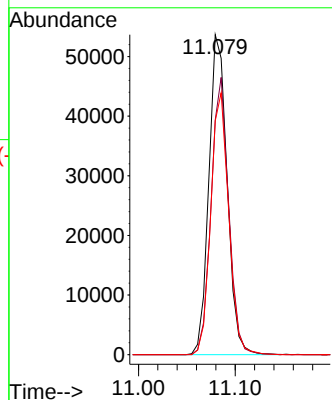
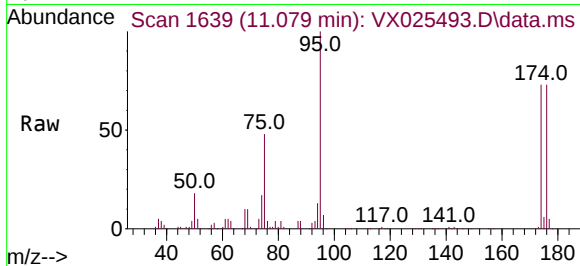




#62  
4-Bromofluorobenzene  
Concen: 46.640 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

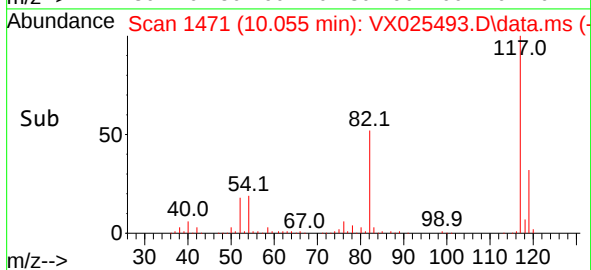
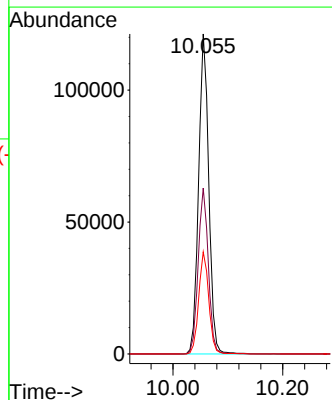
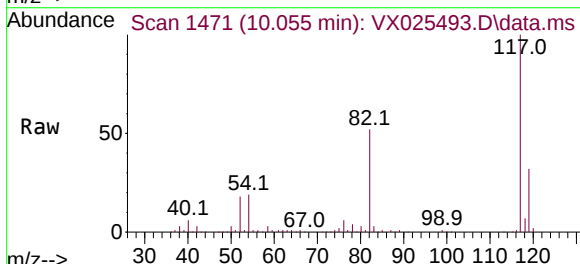
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20211202

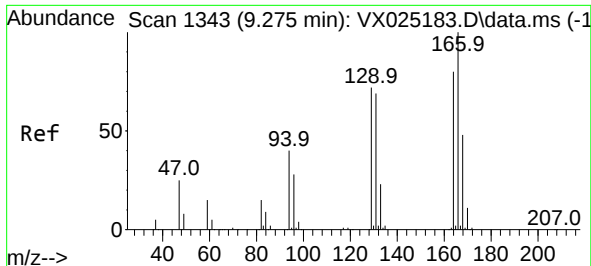
Tgt Ion: 95 Resp: 70560  
Ion Ratio Lower Upper  
95 100  
174 83.1 0.0 158.0  
176 80.3 0.0 153.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

Tgt Ion: 117 Resp: 156581  
Ion Ratio Lower Upper  
117 100  
82 51.8 44.6 67.0  
119 31.9 24.8 37.2



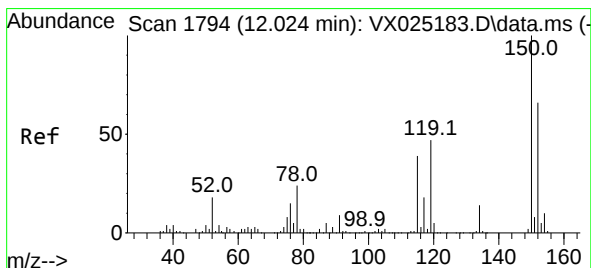
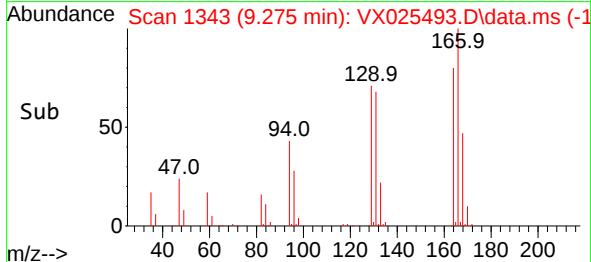
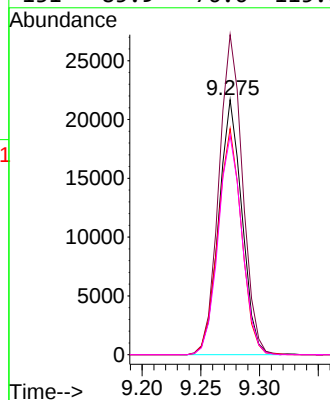
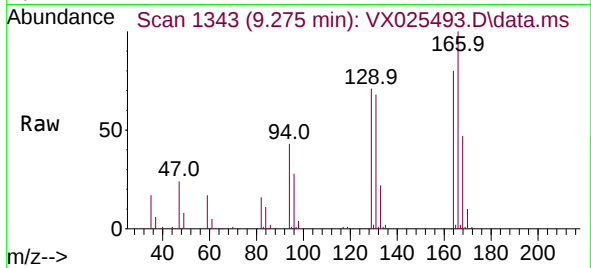


#64  
Tetrachloroethene  
Concen: 23.021 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20211202

Tgt Ion:164 Resp: 29724

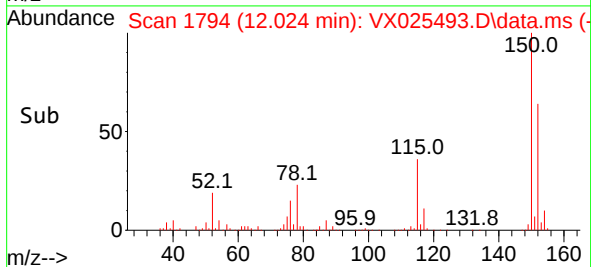
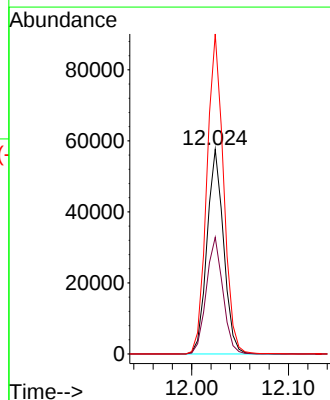
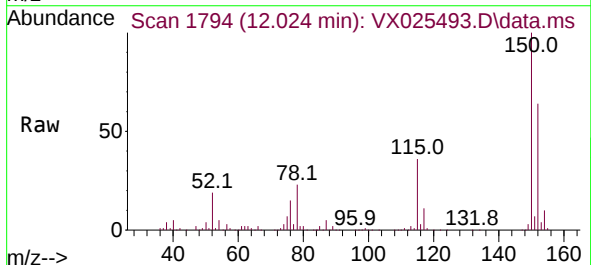
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 125.5 | 103.2 | 154.8 |
| 129 | 88.6  | 81.0  | 121.4 |
| 131 | 85.9  | 76.6  | 115.0 |

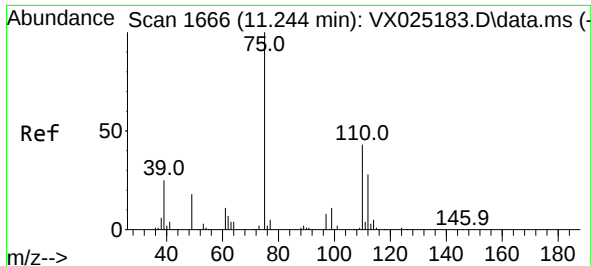


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

Tgt Ion:152 Resp: 68825

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 57.0  | 43.3  | 129.8 |
| 150 | 157.4 | 0.0   | 351.2 |

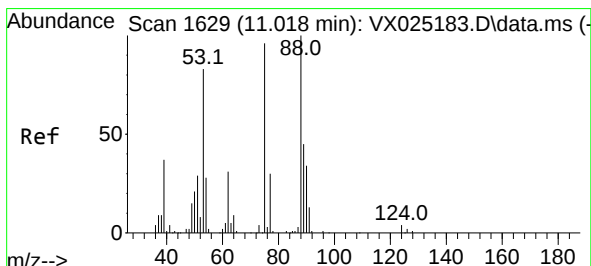
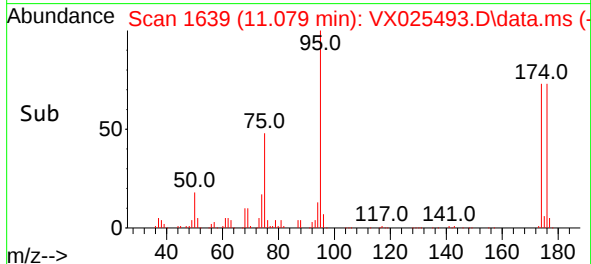
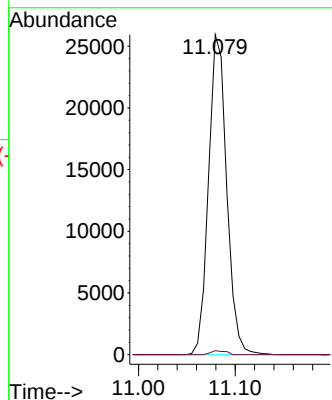
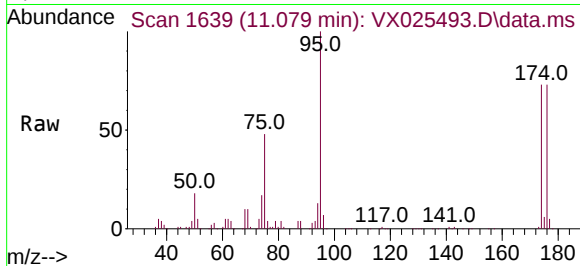




#76  
1,2,3-Trichloropropane  
Concen: 24.066 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.165 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

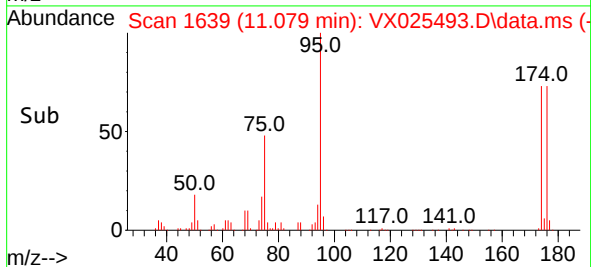
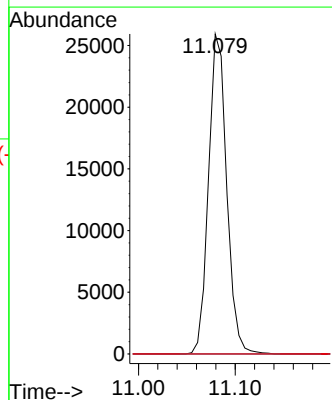
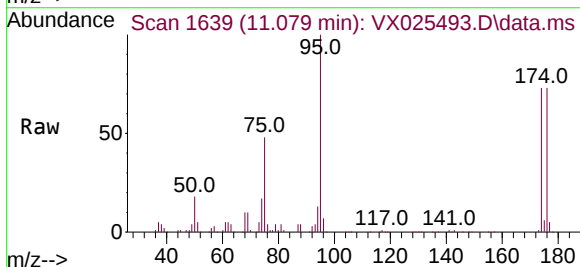
Instrument :  
MSVOA\_X  
ClientSampleId :  
RE135D3-20211202

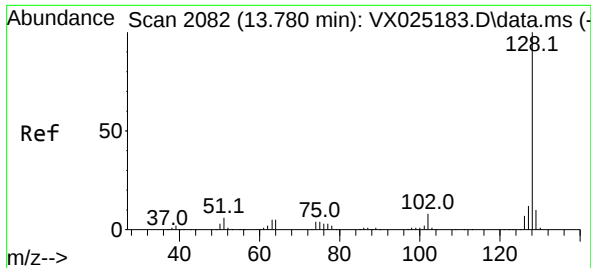
Tgt Ion: 75 Resp: 33918  
Ion Ratio Lower Upper  
75 100  
77 1.0 20.0 59.9#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.626 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX025493.D  
Acq: 03 Dec 2021 19:26

Tgt Ion: 75 Resp: 33918  
Ion Ratio Lower Upper  
75 100  
53 0.0 81.9 122.9#  
89 0.0 38.2 57.2#





#95

Naphthalene

Concen: Below Cal

RT: 13.780 min Scan# 20

Delta R.T. 0.000 min

Lab File: VX025493.D

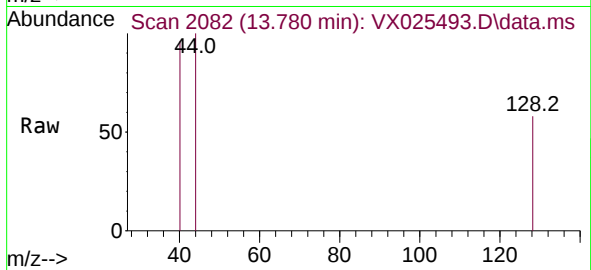
Acq: 03 Dec 2021 19:26

Instrument :

MSVOA\_X

ClientSampleId :

RE135D3-20211202



Tgt Ion:128 Resp: 22

Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

129 0.0 8.8 13.2#

