

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX123121\  
 Data File : VX026206.D  
 Acq On : 31 Dec 2021 06:44  
 Operator : JC/MD  
 Sample : PB141758ZHE#07  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 54 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 31 21:37:35 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X123021W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 30 08:02:21 2021  
 Response via : Initial Calibration

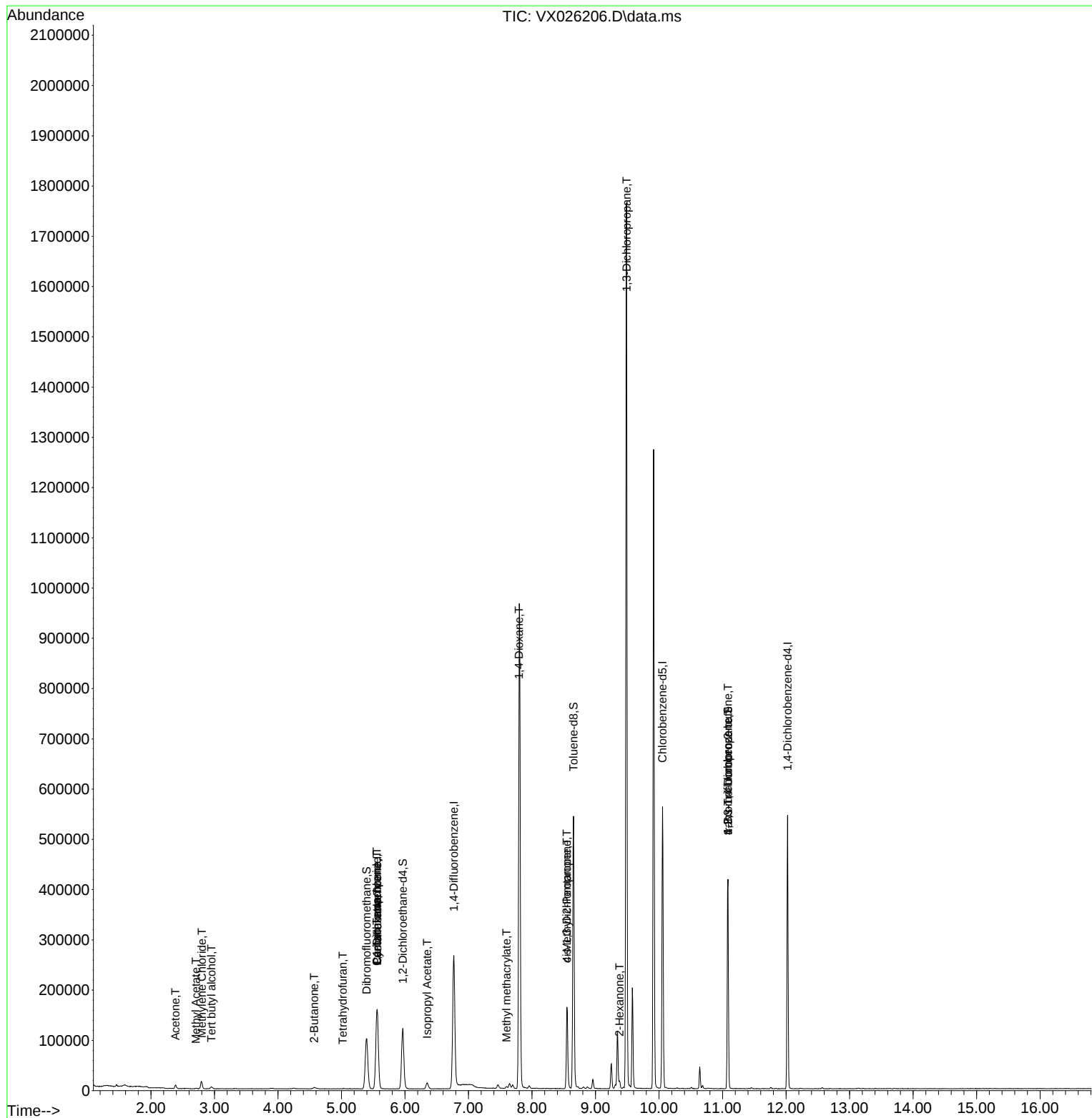
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.562  | 168   | 141244   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.769  | 114   | 248846   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 225771   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 98161    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.964  | 65    | 111198   | 54.419   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 108.840% |          |
| 35) Dibromofluoromethane      | 5.397  | 113   | 85097    | 52.600   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 105.200% |          |
| 50) Toluene-d8                | 8.653  | 98    | 301668   | 50.130   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 100.260% |          |
| 62) 4-Bromofluorobenzene      | 11.085 | 95    | 103681   | 48.399   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 96.800%  |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 11) Tert butyl alcohol        | 2.953  | 59    | 2682     | 6.571    | ug/l #     | 73       |
| 16) Acetone                   | 2.386  | 43    | 8021     | 7.245    | ug/l       | 96       |
| 18) Methyl Acetate            | 2.709  | 43    | 1525     | 0.425    | ug/l #     | 74       |
| 20) Methylene Chloride        | 2.800  | 84    | 5795     | 2.373    | ug/l       | 93       |
| 25) 2-Butanone                | 4.568  | 43    | 4248     | 2.754    | ug/l       | 92       |
| 29) Tetrahydrofuran           | 5.019  | 42    | 204      | 0.210    | ug/l #     | 32       |
| 31) Cyclohexane               | 5.562  | 56    | 3907     | 1.343    | ug/l #     | 32       |
| 36) 1,1-Dichloropropene       | 5.556  | 75    | 12978    | 4.974    | ug/l #     | 49       |
| 38) Carbon Tetrachloride      | 5.556  | 117   | 15959    | 5.498    | ug/l #     | 16       |
| 43) Isopropyl Acetate         | 6.348  | 43    | 16515    | 3.349    | ug/l       | 95       |
| 48) Methyl methacrylate       | 7.598  | 41    | 4810     | 2.034    | ug/l #     | 12       |
| 49) 1,4-Dioxane               | 7.793  | 88    | 27       | 0.620    | ug/l #     | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 60886    | 19.842   | ug/l #     | 49       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 23495    | 7.733    | ug/l #     | 70       |
| 57) 1,3-Dichloropropane       | 9.488  | 76    | 14868    | 4.606    | ug/l #     | 43       |
| 59) 2-Hexanone                | 9.378  | 43    | 8142     | 3.503    | ug/l #     | 25       |
| 76) 1,2,3-Trichloropropane    | 11.085 | 75    | 58740    | 24.791   | ug/l #     | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.085 | 75    | 58740    | 71.722   | ug/l #     | 10       |
| -----                         |        |       |          |          |            |          |

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

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Sample : PB141758ZHE#07  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 54 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

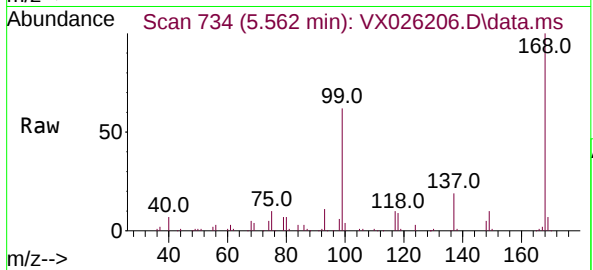
Quant Time: Dec 31 21:37:35 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X123021W.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 30 08:02:21 2021  
Response via : Initial Calibration



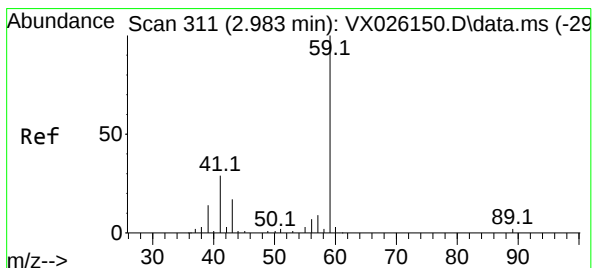
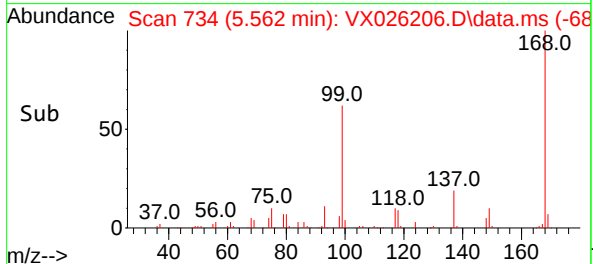
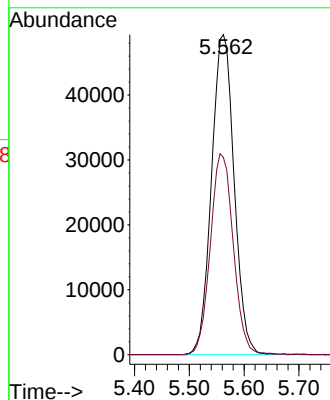


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.562 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

Instrument :  
MSVOA\_X  
ClientSampleId :

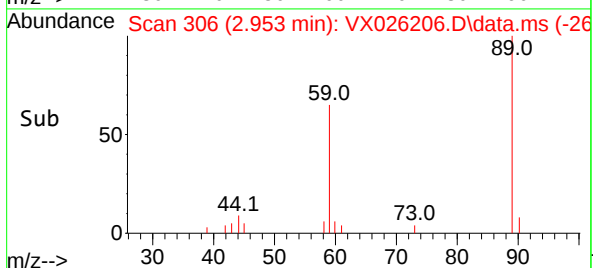
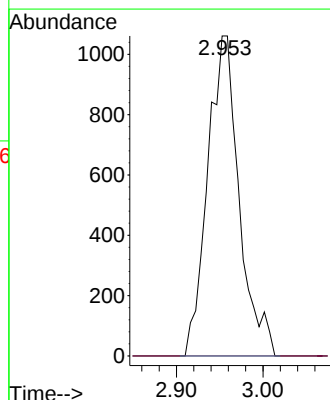
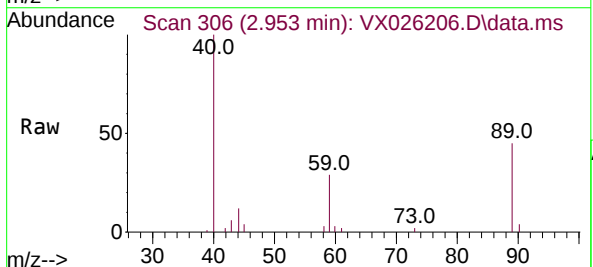


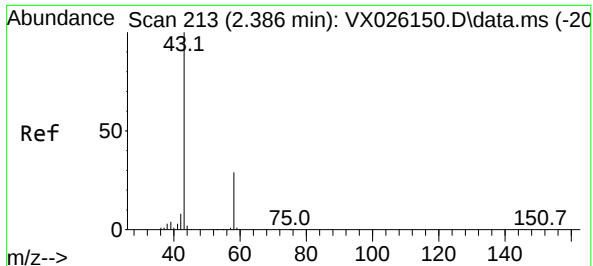
Tgt Ion:168 Resp: 141244  
Ion Ratio Lower Upper  
168 100  
99 61.7 45.8 68.8



#11  
Tert butyl alcohol  
Concen: 6.571 ug/l  
RT: 2.953 min Scan# 306  
Delta R.T. -0.030 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

Tgt Ion: 59 Resp: 2682  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.2 12.2#

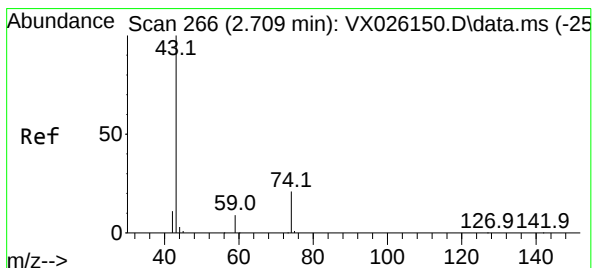
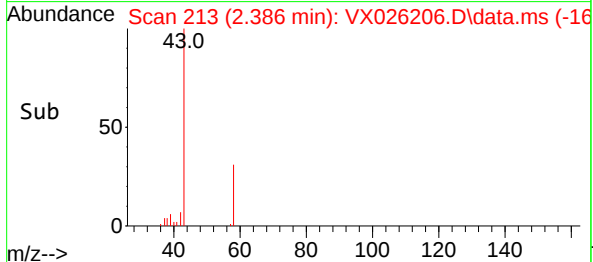
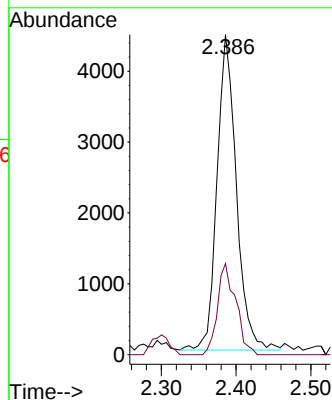
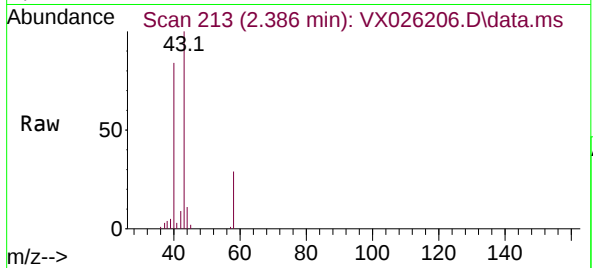




#16  
Acetone  
Concen: 7.245 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. -0.000 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

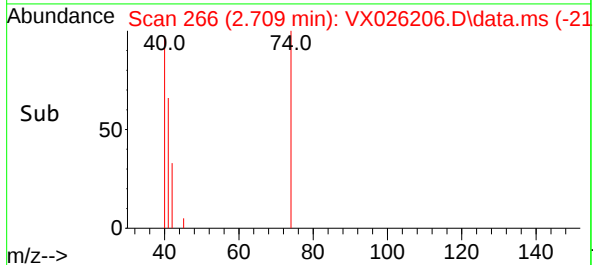
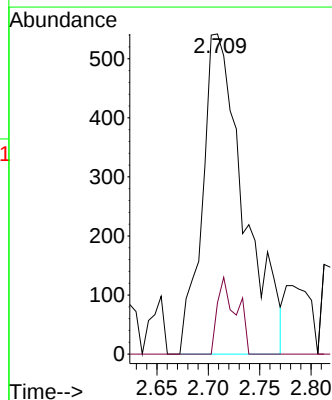
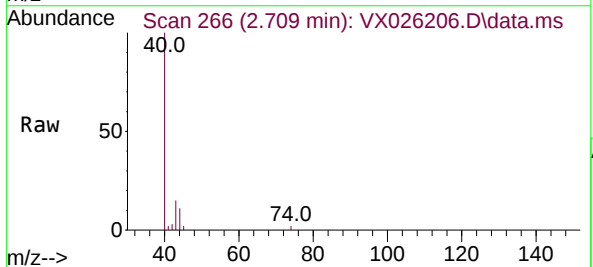
Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 43 Resp: 8021  
Ion Ratio Lower Upper  
43 100  
58 28.9 24.8 37.2



#18  
Methyl Acetate  
Concen: 0.425 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. -0.000 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

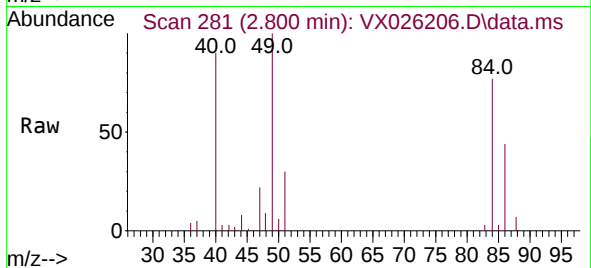
Tgt Ion: 43 Resp: 1525  
Ion Ratio Lower Upper  
43 100  
74 10.9 19.1 28.7#



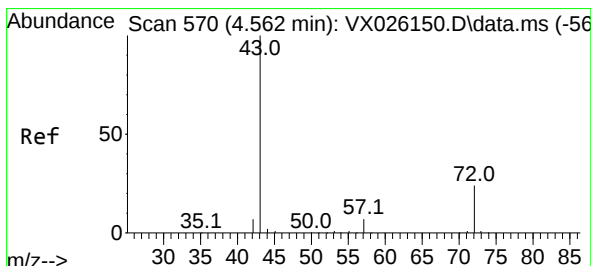
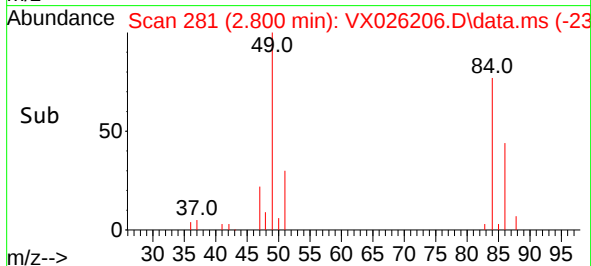
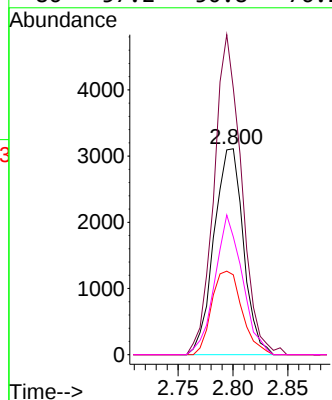


#20  
Methylene Chloride  
Concen: 2.373 ug/l  
RT: 2.800 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

Instrument :  
MSVOA\_X  
ClientSampleId :

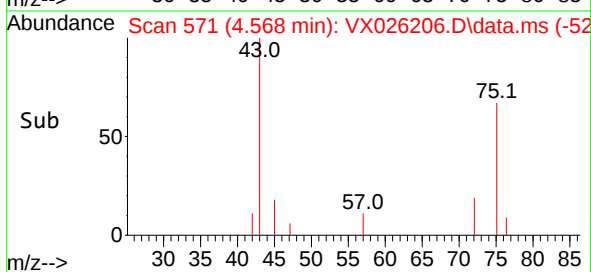
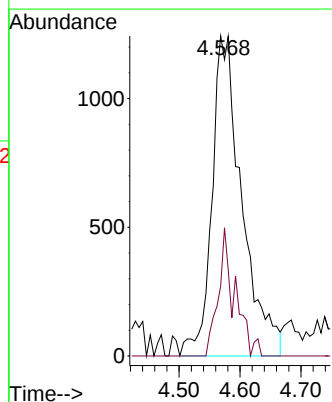
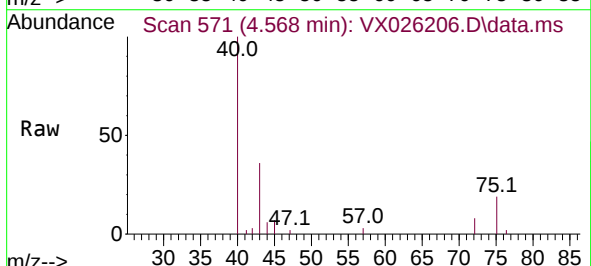


|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 5795  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 129.3 | 97.1  | 145.7 |
| 51       | 38.7  | 29.3  | 43.9  |
| 86       | 57.2  | 50.8  | 76.2  |



#25  
2-Butanone  
Concen: 2.754 ug/l  
RT: 4.568 min Scan# 571  
Delta R.T. 0.006 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 4248  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 21.9  | 21.0  | 31.4  |





#29

Tetrahydrofuran

Concen: 0.210 ug/l

RT: 5.019 min Scan# 644

Delta R.T. 0.006 min

Lab File: VX026206.D

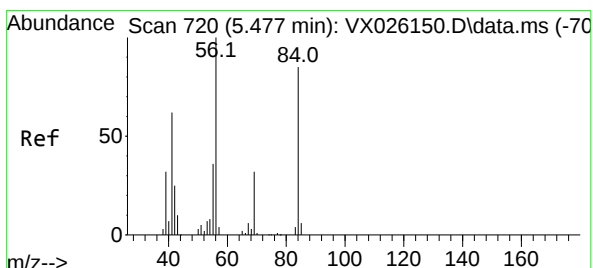
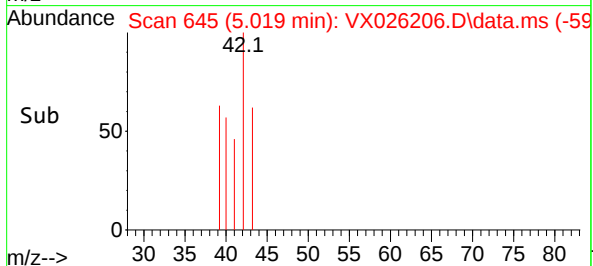
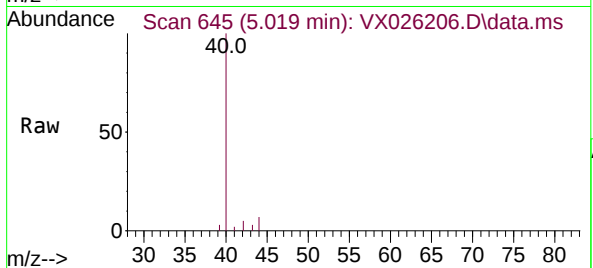
Acq: 31 Dec 2021 06:44

Instrument :

MSVOA\_X

ClientSampleId :

|             |                |
|-------------|----------------|
| Tgt Ion: 42 | Resp: 204      |
| Ion Ratio   | Lower Upper    |
| 42          | 100            |
| 72          | 0.0 37.0 55.6# |
| 71          | 0.0 34.1 51.1# |



#31

Cyclohexane

Concen: 1.343 ug/l

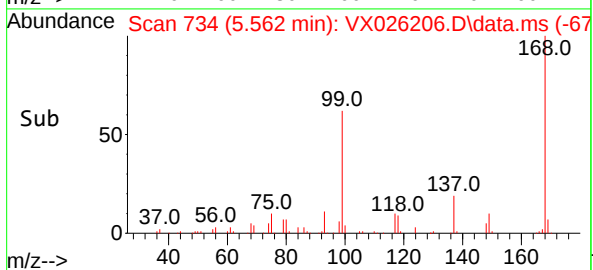
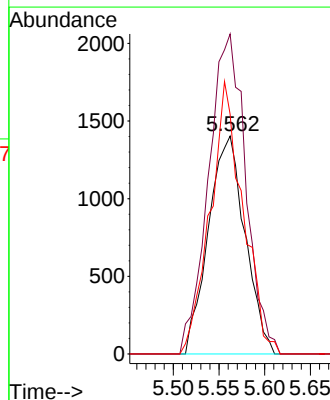
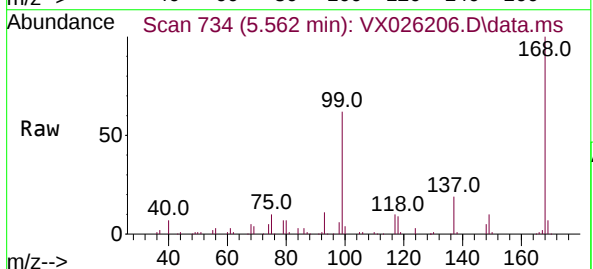
RT: 5.562 min Scan# 734

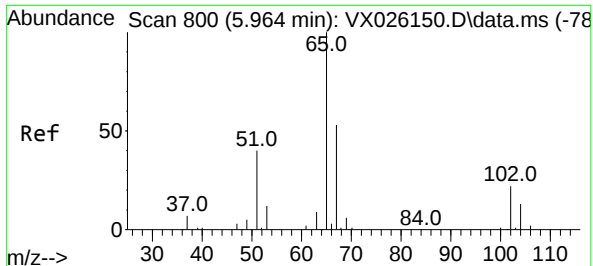
Delta R.T. 0.085 min

Lab File: VX026206.D

Acq: 31 Dec 2021 06:44

|             |                   |
|-------------|-------------------|
| Tgt Ion: 56 | Resp: 3907        |
| Ion Ratio   | Lower Upper       |
| 56          | 100               |
| 69          | 146.8 23.9 35.9#  |
| 84          | 110.0 73.2 109.8# |

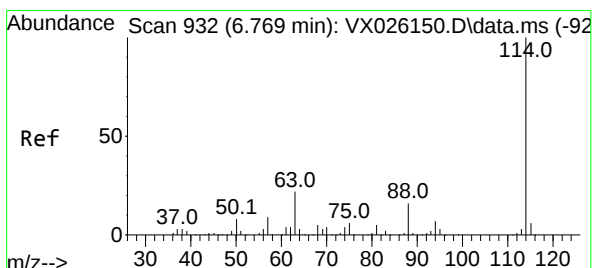
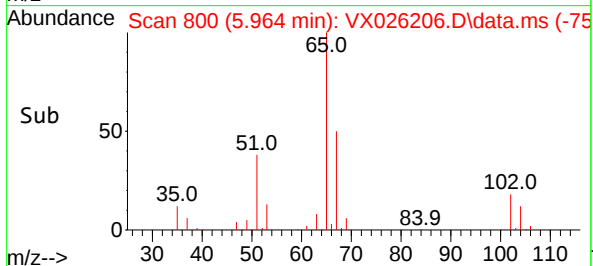
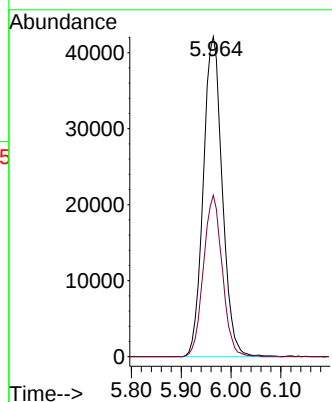
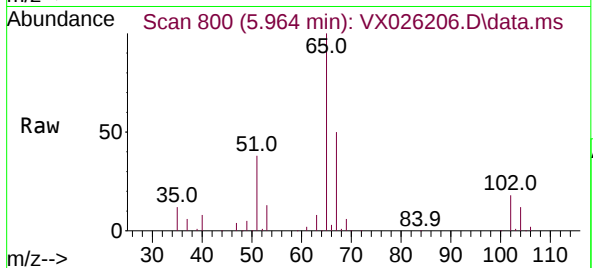




#33  
 1,2-Dichloroethane-d4  
 Concen: 54.419 ug/l  
 RT: 5.964 min Scan# 800  
 Delta R.T. 0.000 min  
 Lab File: VX026206.D  
 Acq: 31 Dec 2021 06:44

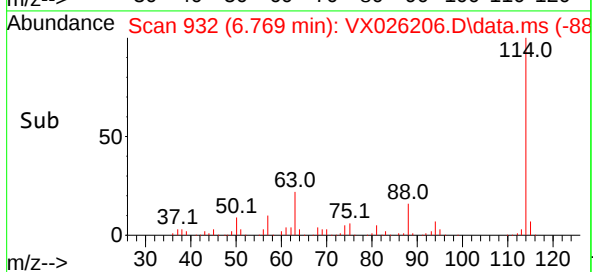
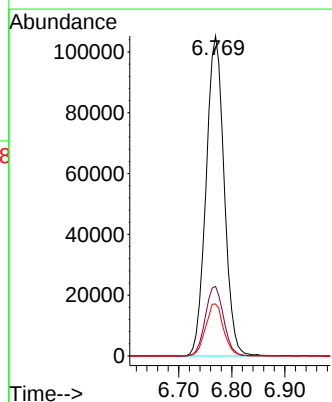
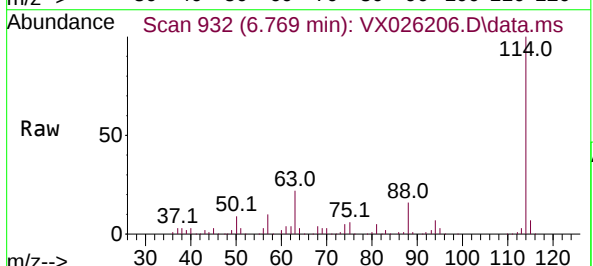
Instrument :  
 MSVOA\_X  
 ClientSampleId :

Tgt Ion: 65 Resp: 111198  
 Ion Ratio Lower Upper  
 65 100  
 67 49.9 0.0 103.4



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.769 min Scan# 932  
 Delta R.T. 0.000 min  
 Lab File: VX026206.D  
 Acq: 31 Dec 2021 06:44

Tgt Ion: 114 Resp: 248846  
 Ion Ratio Lower Upper  
 114 100  
 63 21.7 0.0 40.0  
 88 16.2 0.0 30.6





#35

Dibromofluoromethane

Concen: 52.600 ug/l

RT: 5.397 min Scan# 706

Delta R.T. 0.006 min

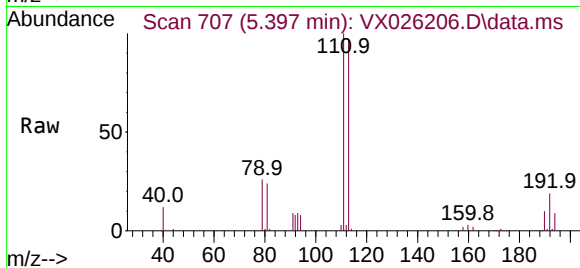
Lab File: VX026206.D

Acq: 31 Dec 2021 06:44

Instrument :

MSVOA\_X

ClientSampleId :



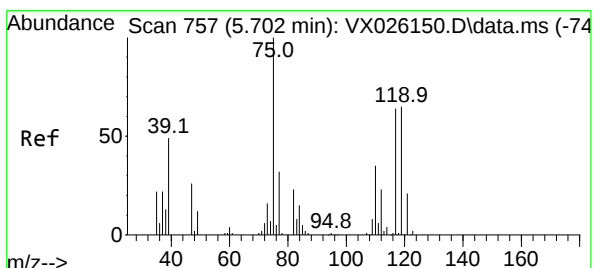
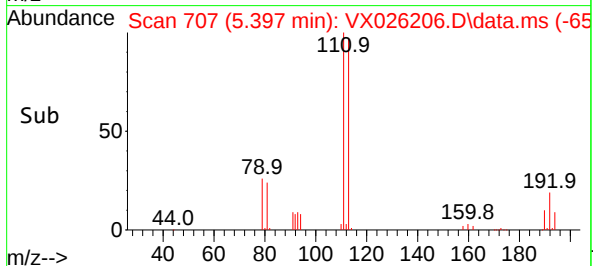
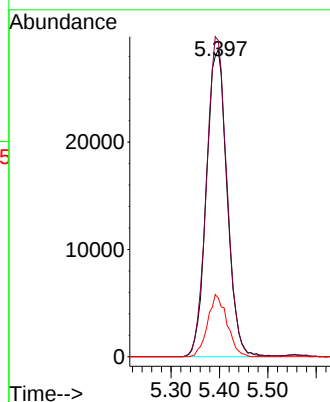
Tgt Ion:113 Resp: 85097

Ion Ratio Lower Upper

113 100

111 102.5 81.8 122.8

192 19.0 15.0 22.4



#36

1,1-Dichloropropene

Concen: 4.974 ug/l

RT: 5.556 min Scan# 733

Delta R.T. -0.146 min

Lab File: VX026206.D

Acq: 31 Dec 2021 06:44

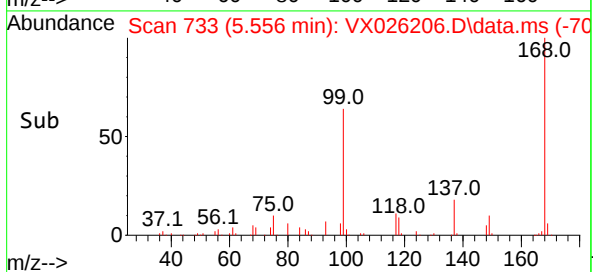
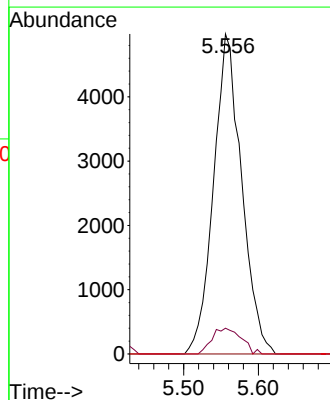
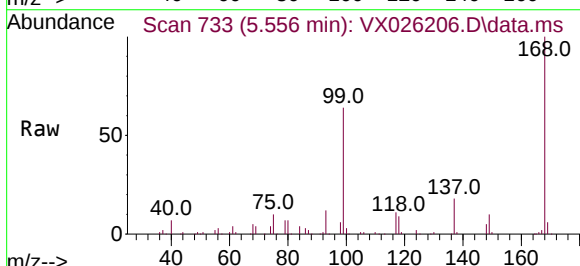
Tgt Ion: 75 Resp: 12978

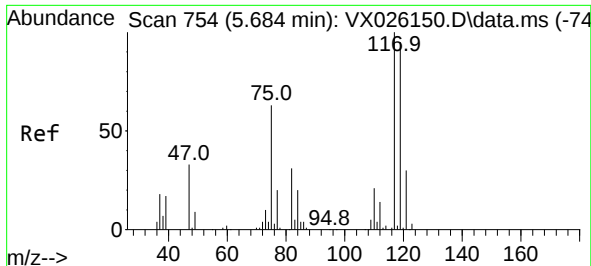
Ion Ratio Lower Upper

75 100

110 8.5 18.2 54.6#

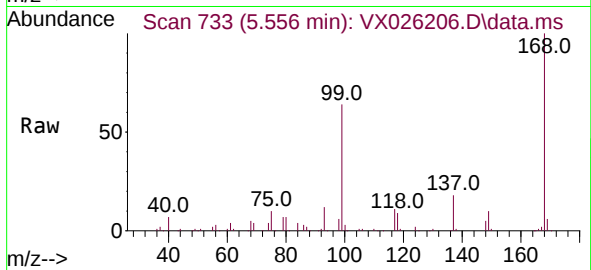
77 0.0 24.7 37.1#



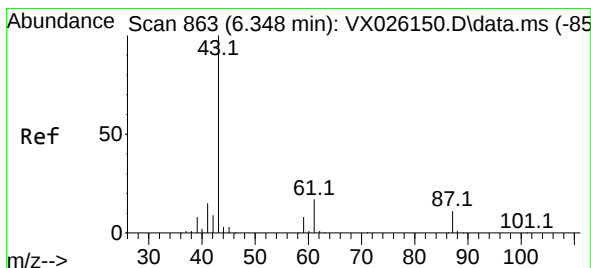
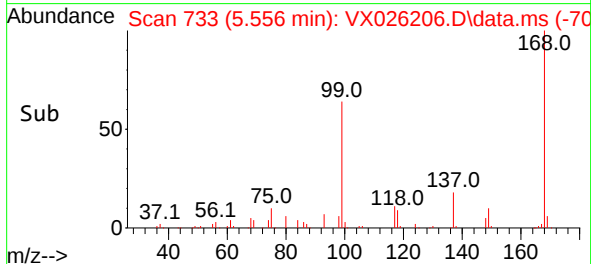
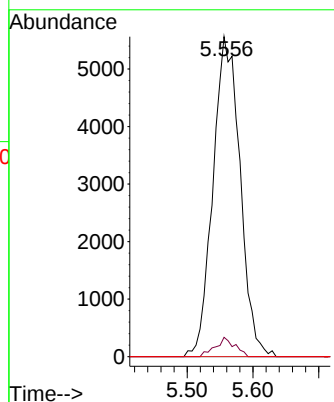


#38  
Carbon Tetrachloride  
Concen: 5.498 ug/l  
RT: 5.556 min Scan# 711  
Delta R.T. -0.128 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

Instrument :  
MSVOA\_X  
ClientSampleId :

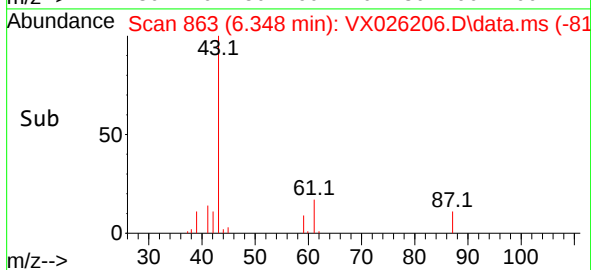
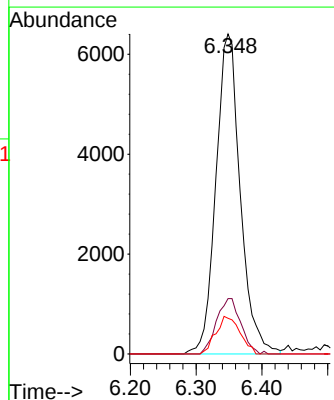
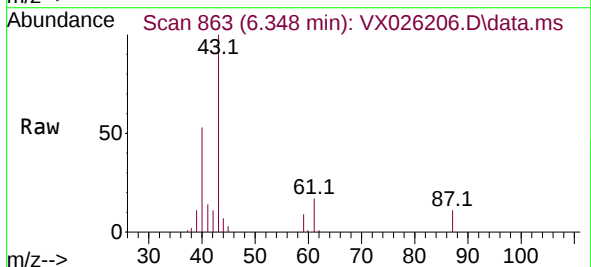


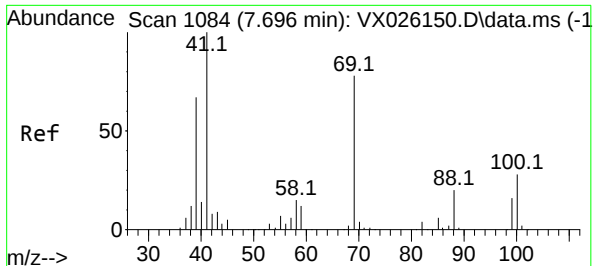
Tgt Ion:117 Resp: 15959  
Ion Ratio Lower Upper  
117 100  
119 6.0 77.2 115.8#  
121 0.0 23.8 35.8#



#43  
Isopropyl Acetate  
Concen: 3.349 ug/l  
RT: 6.348 min Scan# 863  
Delta R.T. 0.000 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

Tgt Ion: 43 Resp: 16515  
Ion Ratio Lower Upper  
43 100  
61 17.3 15.7 23.5  
87 11.6 11.2 16.8





#48

Methyl methacrylate

Concen: 2.034 ug/l

RT: 7.598 min Scan# 1100

Delta R.T. -0.098 min

Lab File: VX026206.D

Acq: 31 Dec 2021 06:44

Instrument :

MSVOA\_X

ClientSampleId :

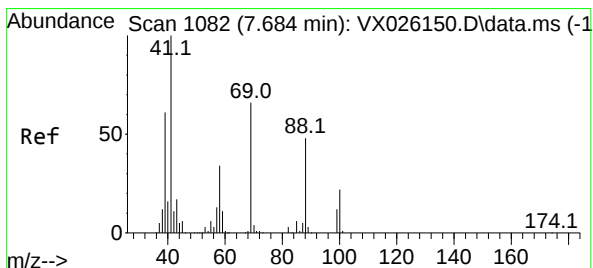
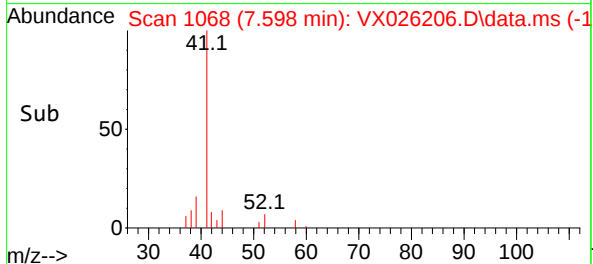
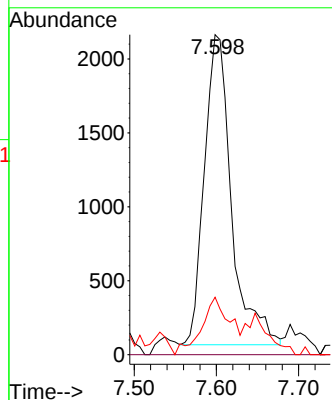
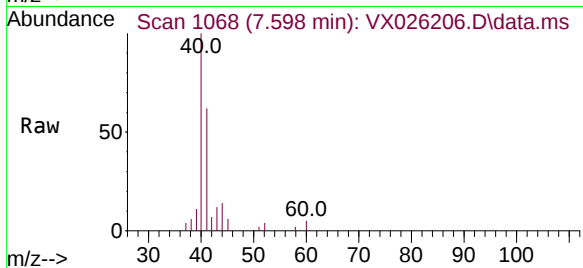
Tgt Ion: 41 Resp: 4810

Ion Ratio Lower Upper

41 100

69 0.0 67.3 100.9#

39 0.0 50.2 75.2#



#49

1,4-Dioxane

Concen: 0.620 ug/l

RT: 7.793 min Scan# 1100

Delta R.T. 0.109 min

Lab File: VX026206.D

Acq: 31 Dec 2021 06:44

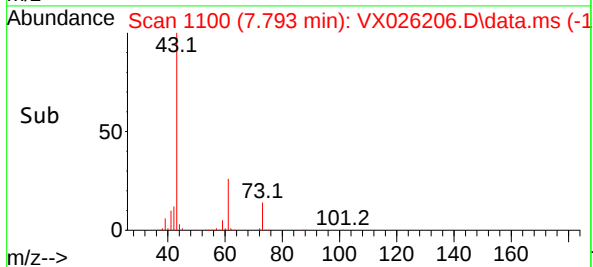
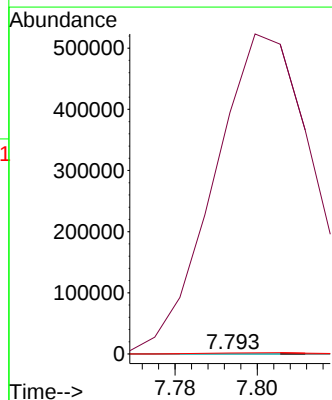
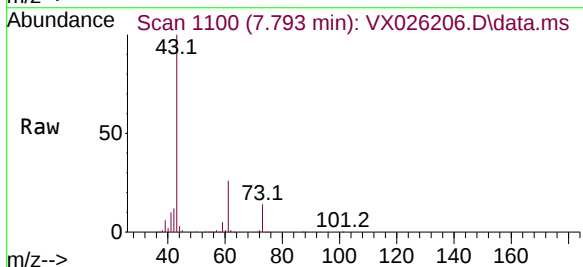
Tgt Ion: 88 Resp: 27

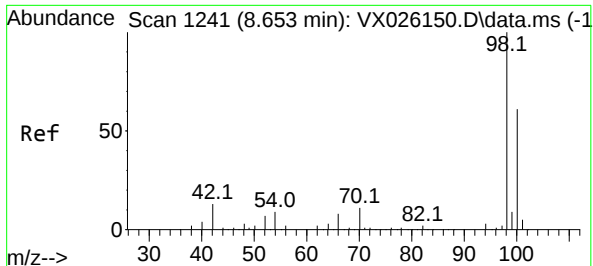
Ion Ratio Lower Upper

88 100

43 3356863.0 25.3 37.9#

58 13918.5 51.8 77.6#

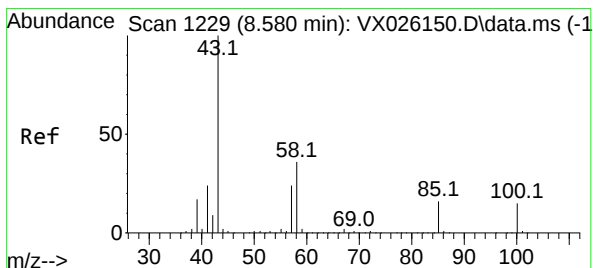
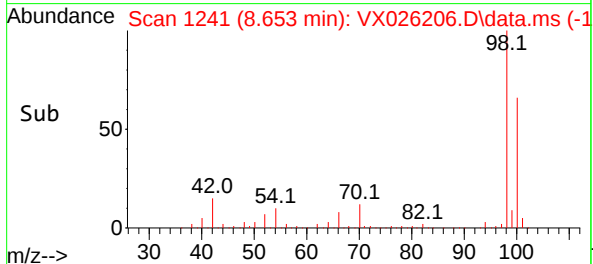
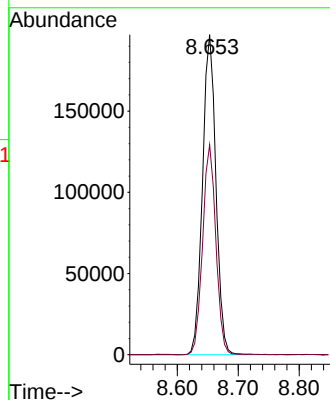
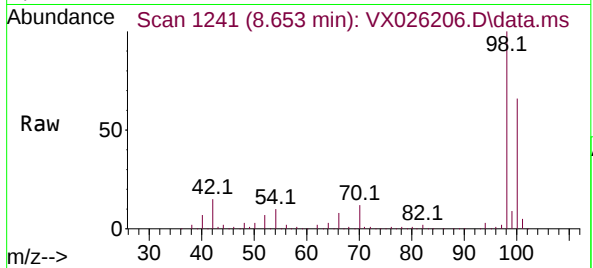




#50  
Toluene-d8  
Concen: 50.130 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

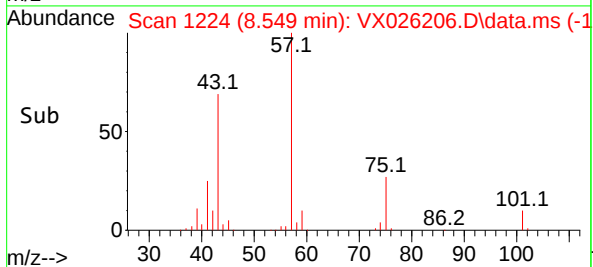
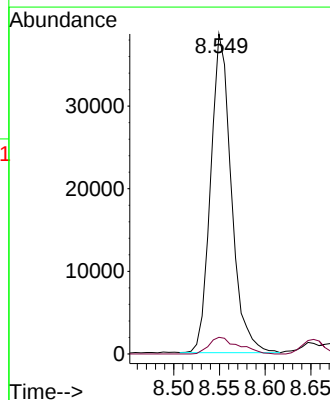
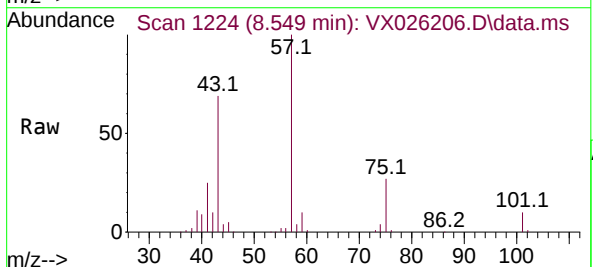
Instrument :  
MSVOA\_X  
ClientSampleId :

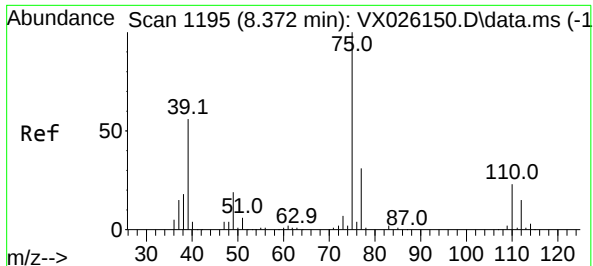
Tgt Ion: 98 Resp: 301668  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.6 78.8



#51  
4-Methyl-2-Pentanone  
Concen: 19.842 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.031 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

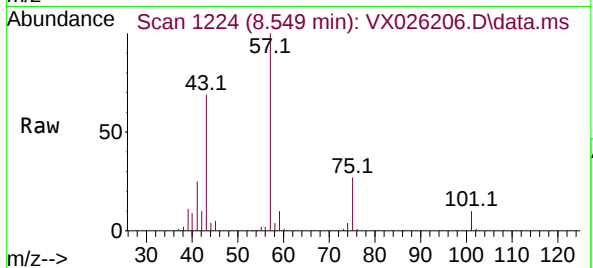
Tgt Ion: 43 Resp: 60886  
Ion Ratio Lower Upper  
43 100  
58 7.4 30.8 46.2#



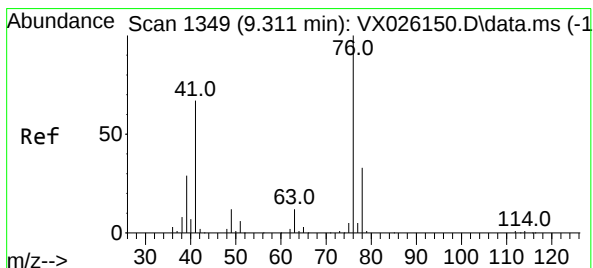
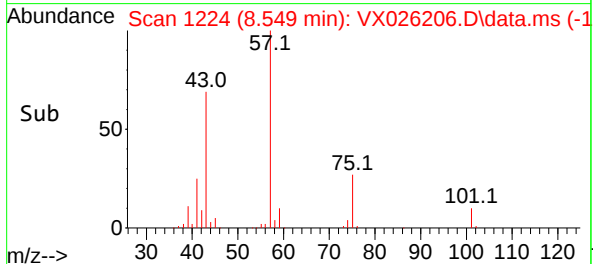
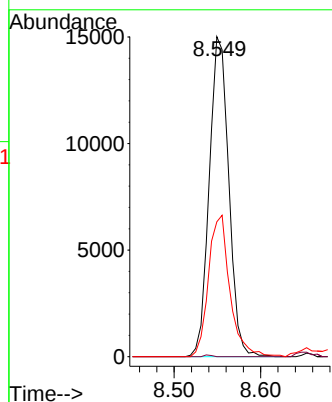


#54  
 cis-1,3-Dichloropropene  
 Concen: 7.733 ug/l  
 RT: 8.549 min Scan# 1195  
 Delta R.T. 0.177 min  
 Lab File: VX026206.D  
 Acq: 31 Dec 2021 06:44

Instrument :  
 MSVOA\_X  
 ClientSampleId :

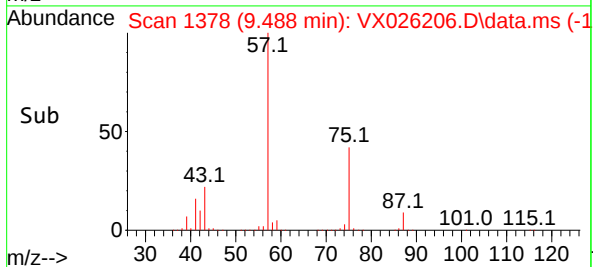
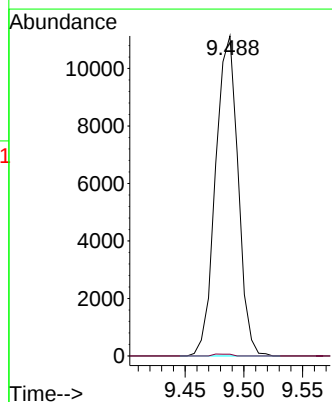
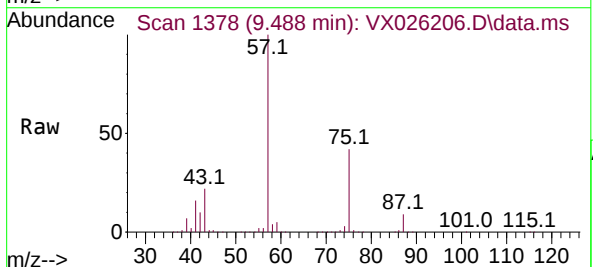


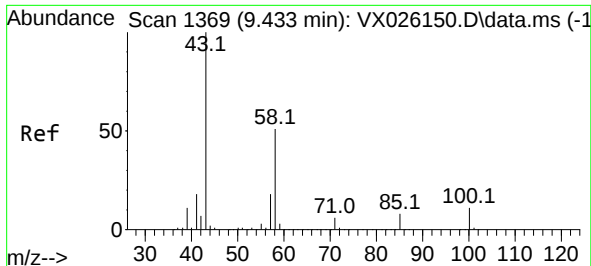
Tgt Ion: 75 Resp: 23495  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.3 37.9#  
 39 42.1 41.4 62.0



#57  
 1,3-Dichloropropane  
 Concen: 4.606 ug/l  
 RT: 9.488 min Scan# 1378  
 Delta R.T. 0.177 min  
 Lab File: VX026206.D  
 Acq: 31 Dec 2021 06:44

Tgt Ion: 76 Resp: 14868  
 Ion Ratio Lower Upper  
 76 100  
 78 0.5 26.0 39.0#





#59

2-Hexanone

Concen: 3.503 ug/l

RT: 9.378 min Scan# 11

Delta R.T. -0.055 min

Lab File: VX026206.D

Acq: 31 Dec 2021 06:44

Instrument :

MSVOA\_X

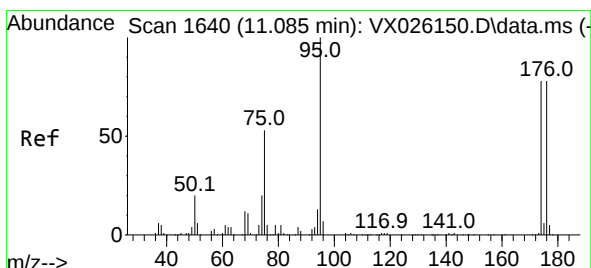
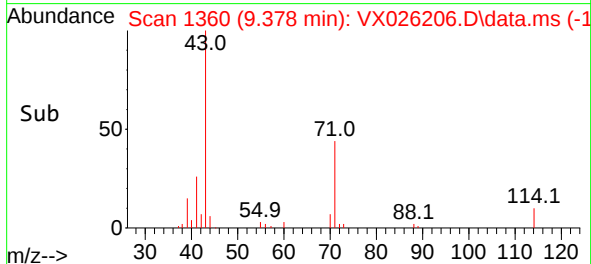
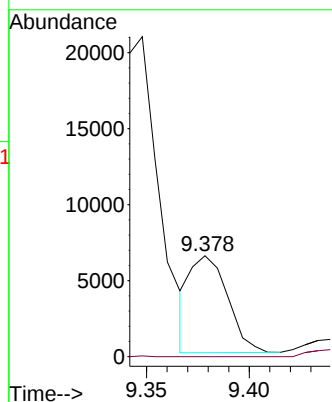
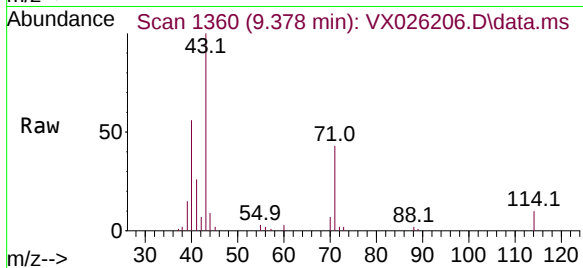
ClientSampleId :

Tgt Ion: 43 Resp: 8142

Ion Ratio Lower Upper

43 100

58 0.0 26.9 80.6#



#62

4-Bromofluorobenzene

Concen: 48.399 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.000 min

Lab File: VX026206.D

Acq: 31 Dec 2021 06:44

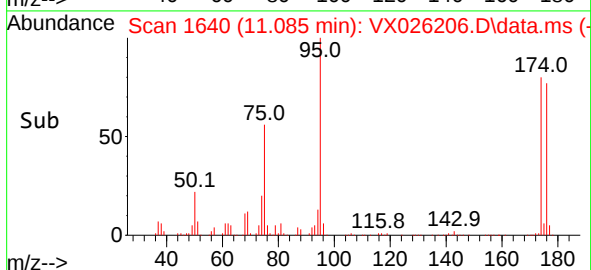
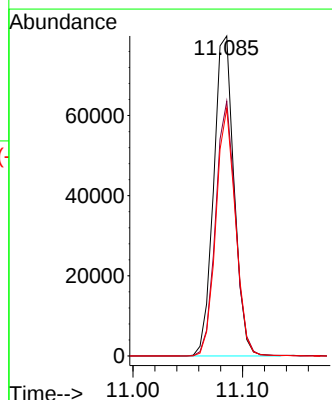
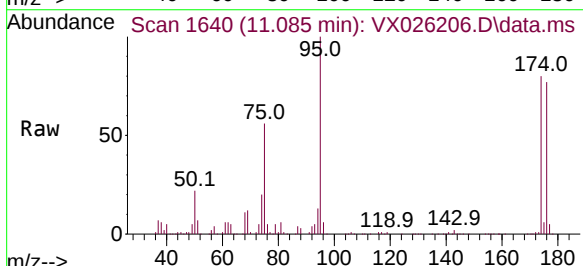
Tgt Ion: 95 Resp: 103681

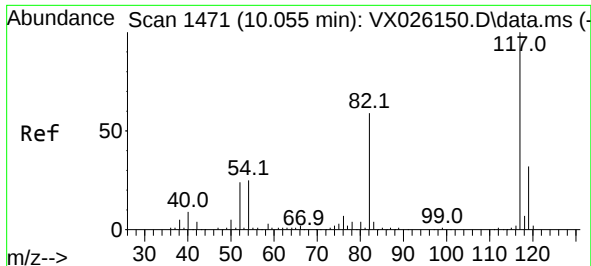
Ion Ratio Lower Upper

95 100

174 77.1 0.0 157.4

176 74.1 0.0 154.6

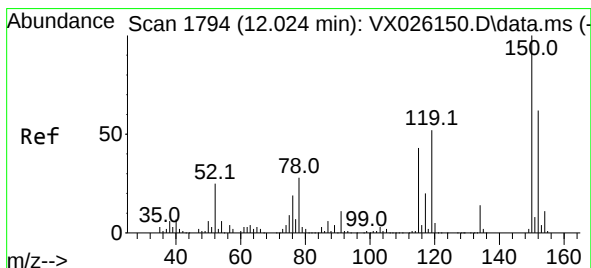
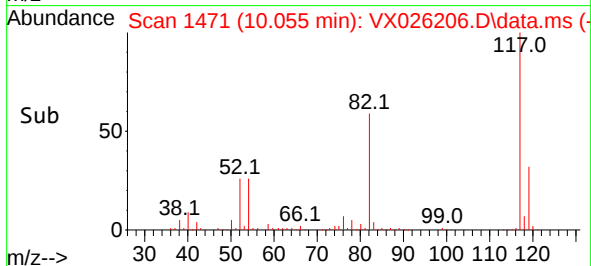
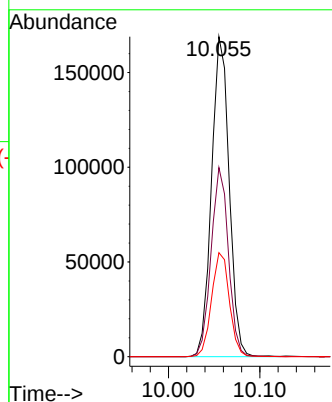
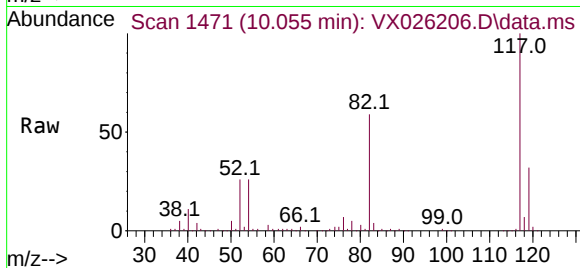




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

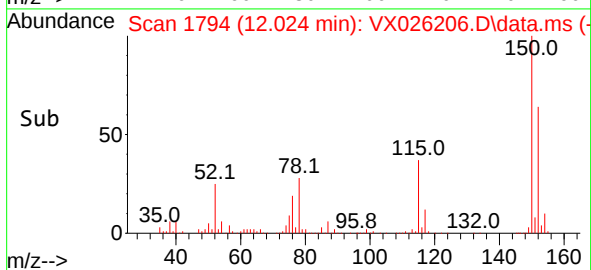
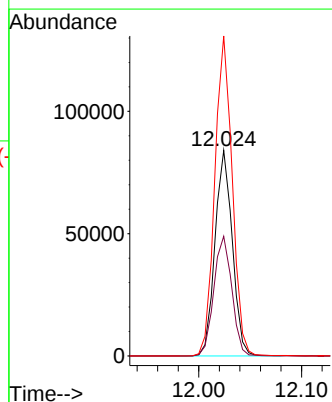
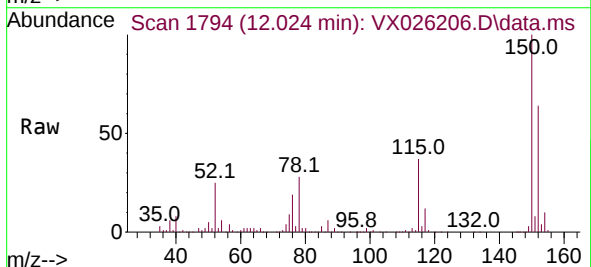
Instrument :  
MSVOA\_X  
ClientSampleId :

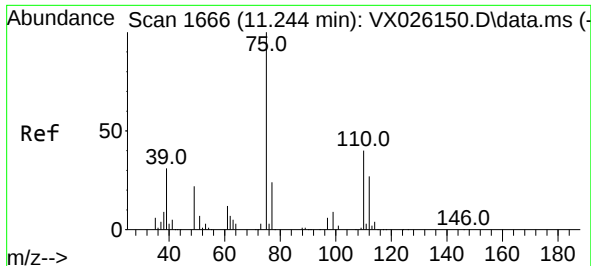
Tgt Ion:117 Resp: 225771  
Ion Ratio Lower Upper  
117 100  
82 59.1 43.8 65.6  
119 32.5 25.2 37.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.000 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

Tgt Ion:152 Resp: 98161  
Ion Ratio Lower Upper  
152 100  
115 60.4 41.3 123.9  
150 157.0 0.0 351.8

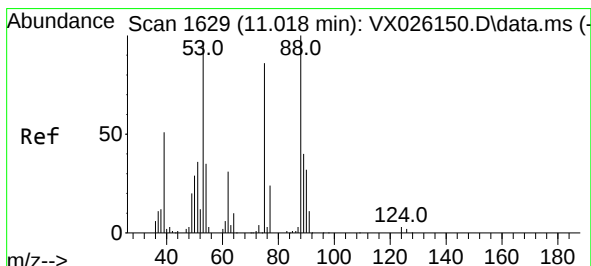
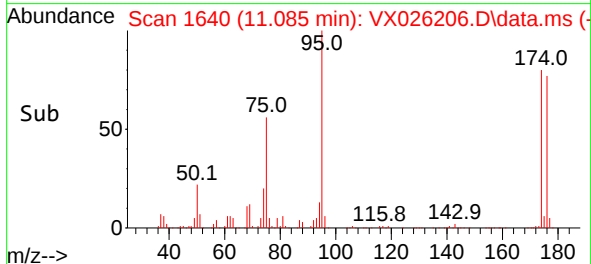
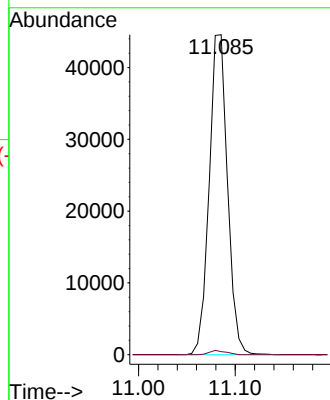
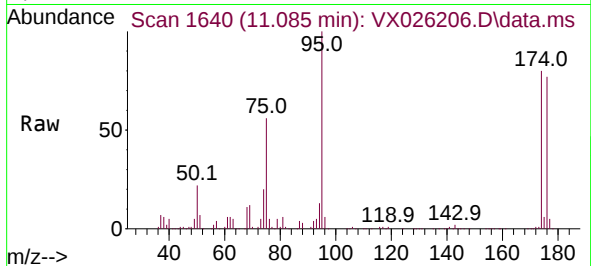




#76  
1,2,3-Trichloropropane  
Concen: 24.791 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. -0.159 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 58740  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.0 57.0#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.722 ug/l  
RT: 11.085 min Scan# 1640  
Delta R.T. 0.067 min  
Lab File: VX026206.D  
Acq: 31 Dec 2021 06:44

Tgt Ion: 75 Resp: 58740  
Ion Ratio Lower Upper  
75 100  
53 0.0 79.5 119.3#  
89 0.0 38.3 57.5#

