

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122024\  
 Data File : VX044439.D  
 Acq On : 20 Dec 2024 10:00  
 Operator : JC/MD  
 Sample : VX1220MBL01  
 Misc : 5.00g/10mL/100uL/5.00mL/MSVOA\_X/MEOH  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 20 22:19:42 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121124W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 12 04:28:14 2024  
 Response via : Initial Calibration

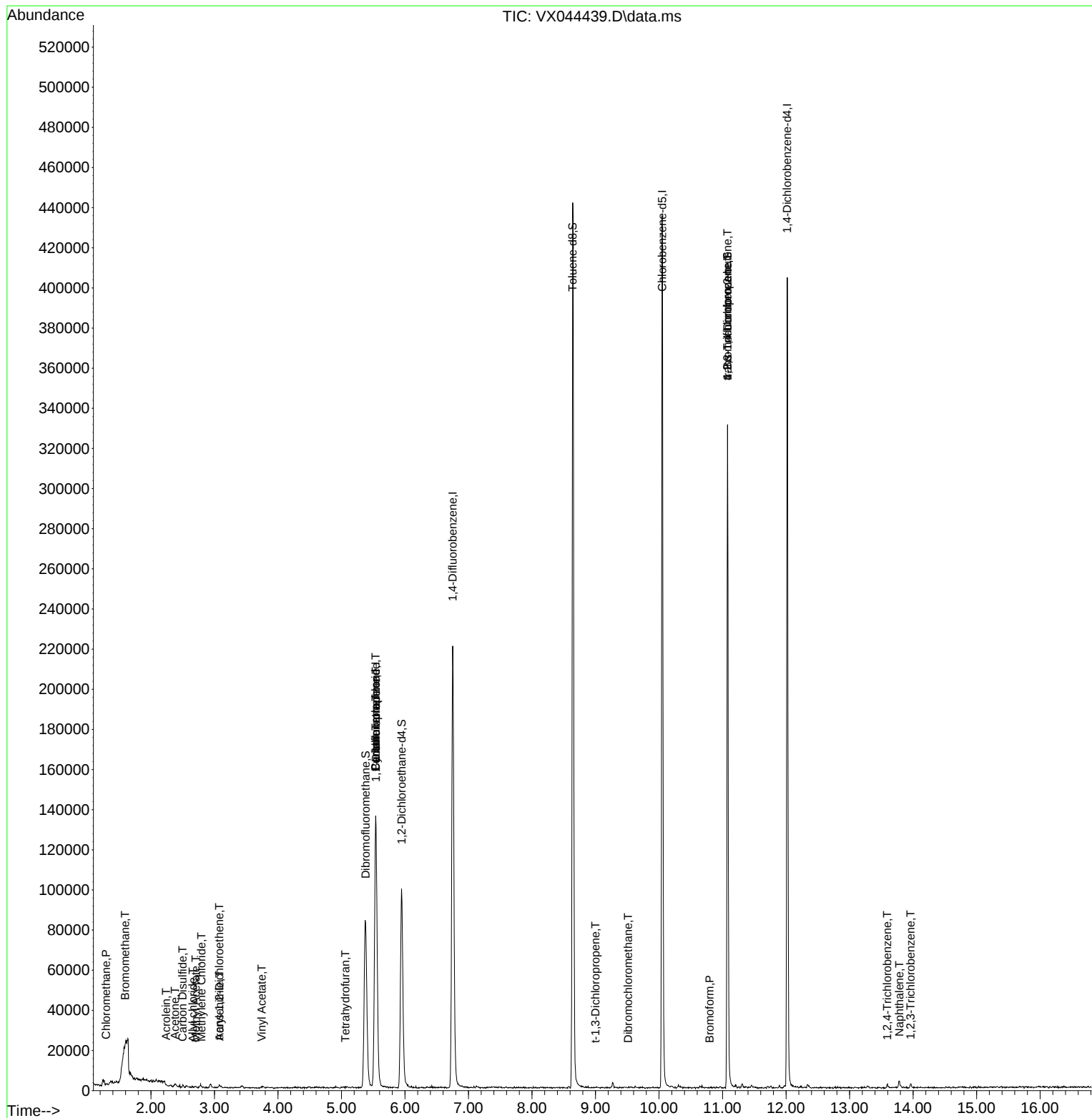
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 5.537          | 168  | 124280     | 50.000   | ug/l   | -0.01    |
| 34) 1,4-Difluorobenzene       | 6.751          | 114  | 220866     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.049         | 117  | 191861     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 81415      | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.946          | 65   | 93416      | 42.870   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 74 - 125 |      | Recovery = | 85.740%  |        |          |
| 35) Dibromofluoromethane      | 5.379          | 113  | 73505      | 48.052   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 96.100%  |        |          |
| 50) Toluene-d8                | 8.641          | 98   | 269249     | 52.172   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 86 - 113 |      | Recovery = | 104.340% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 85125      | 47.205   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 77 - 121 |      | Recovery = | 94.420%  |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          | Qvalue |          |
| 3) Chloromethane              | 1.294          | 50   | 414        | 0.225    | ug/l   | 96       |
| 5) Bromomethane               | 1.593          | 94   | 847        | 0.624    | ug/l # | 38       |
| 13) Acrolein                  | 2.239          | 56   | 203        | 0.457    | ug/l   | 85       |
| 14) Allyl chloride            | 2.660          | 41   | 583        | 0.251    | ug/l # | 20       |
| 15) Acrylonitrile             | 3.081          | 53   | 550        | 0.647    | ug/l # | 73       |
| 16) Acetone                   | 2.380          | 43   | 1243       | 1.399    | ug/l # | 81       |
| 17) Carbon Disulfide          | 2.495          | 76   | 1148       | 0.434    | ug/l # | 75       |
| 18) Methyl Acetate            | 2.703          | 43   | 504        | 0.220    | ug/l # | 89       |
| 20) Methylene Chloride        | 2.794          | 84   | 565        | 0.339    | ug/l # | 27       |
| 21) trans-1,2-Dichloroethene  | 3.075          | 96   | 369        | 0.249    | ug/l # | 84       |
| 23) Vinyl Acetate             | 3.745          | 43   | 901        | 0.212    | ug/l # | 73       |
| 29) Tetrahydrofuran           | 5.062          | 42   | 322        | 0.397    | ug/l # | 32       |
| 31) Cyclohexane               | 5.537          | 56   | 3029       | 1.288    | ug/l # | 54       |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 10626      | 5.374    | ug/l # | 51       |
| 38) Carbon Tetrachloride      | 5.537          | 117  | 13538      | 6.359    | ug/l # | 17       |
| 53) t-1,3-Dichloropropene     | 9.000          | 75   | 111        | 1.048    | ug/l # | 41       |
| 60) Dibromochloromethane      | 9.512          | 129  | 26         | 1.248    | ug/l # | 11       |
| 71) Bromoform                 | 10.799         | 173  | 96         | 1.343    | ug/l # | 29       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 46725      | 25.704   | ug/l # | 36       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 46725      | 71.016   | ug/l # | 4        |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 671        | 0.446    | ug/l   | 90       |
| 95) Naphthalene               | 13.786         | 128  | 3553       | 0.606    | ug/l   | 97       |
| 96) 1,2,3-Trichlorobenzene    | 13.963         | 180  | 785        | 0.492    | ug/l   | 82       |
| -----                         |                |      |            |          |        |          |

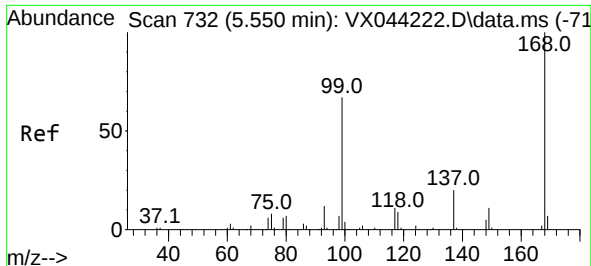
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122024\  
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Sample : VX1220MBL01  
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ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

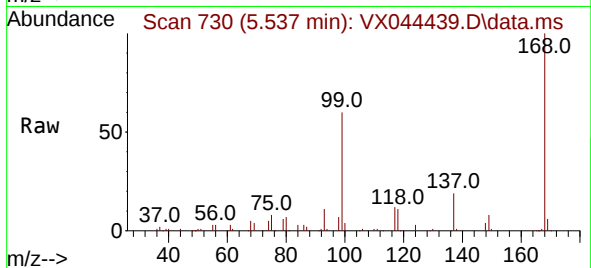
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Quant Title : SW846 8260  
QLast Update : Thu Dec 12 04:28:14 2024  
Response via : Initial Calibration



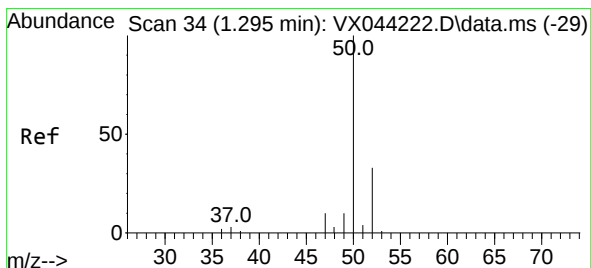
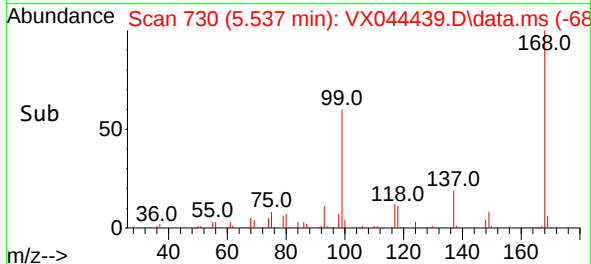
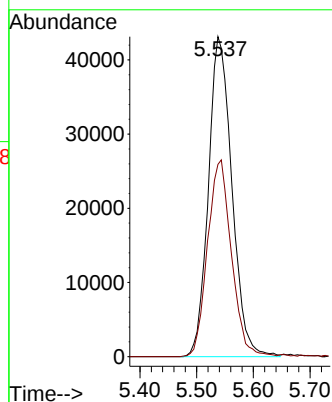


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.537 min Scan# 71  
Delta R.T. -0.013 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

Instrument :  
MSVOA\_X  
ClientSampleId :

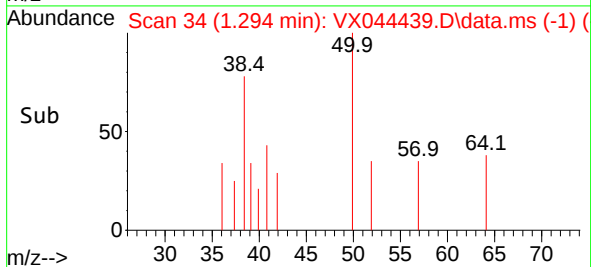
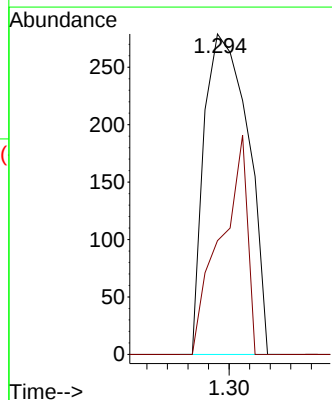
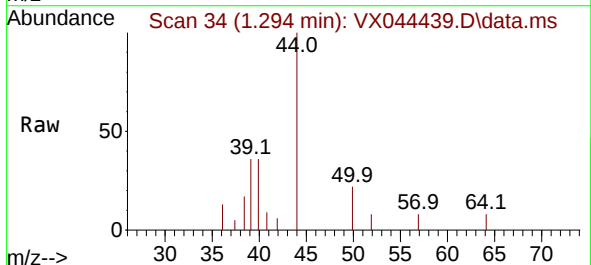


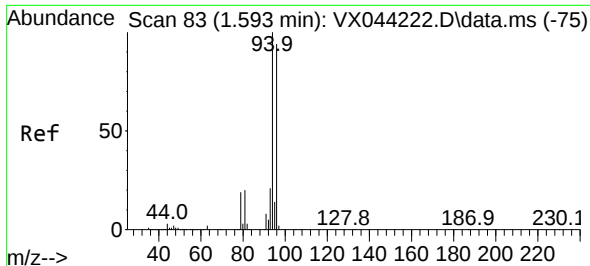
Tgt Ion:168 Resp: 124280  
Ion Ratio Lower Upper  
168 100  
99 60.1 53.4 80.0



#3  
Chloromethane  
Concen: 0.225 ug/l  
RT: 1.294 min Scan# 34  
Delta R.T. -0.000 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

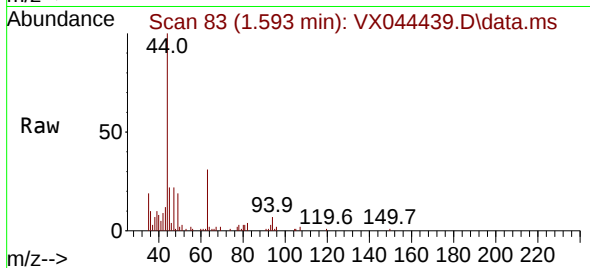
Tgt Ion: 50 Resp: 414  
Ion Ratio Lower Upper  
50 100  
52 35.5 26.5 39.7



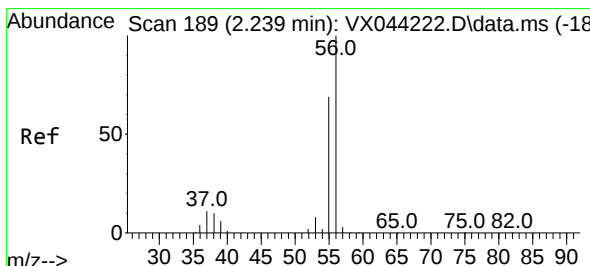
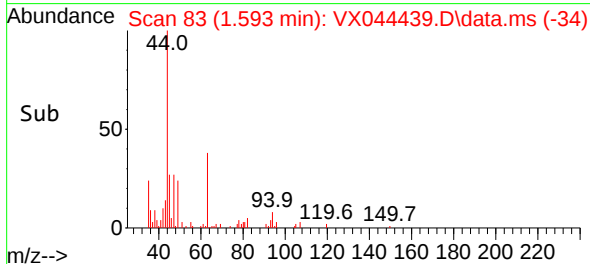
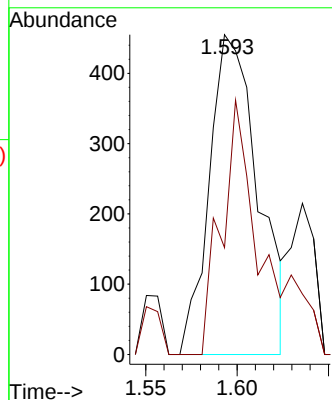


#5  
Bromomethane  
Concen: 0.624 ug/l  
RT: 1.593 min Scan# 81  
Delta R.T. -0.000 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

Instrument :  
MSVOA\_X  
ClientSampleId :

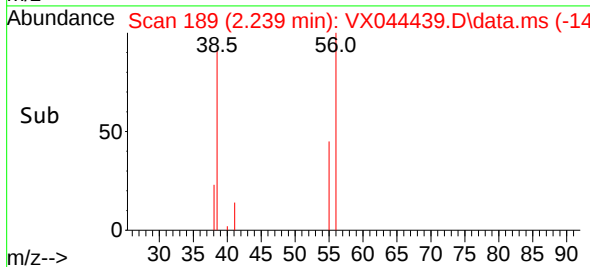
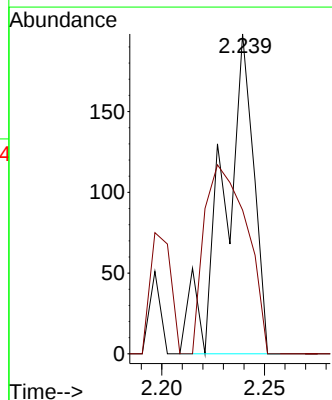
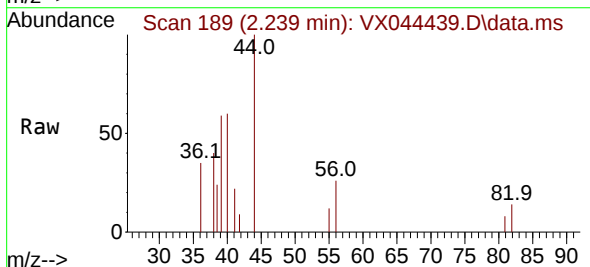


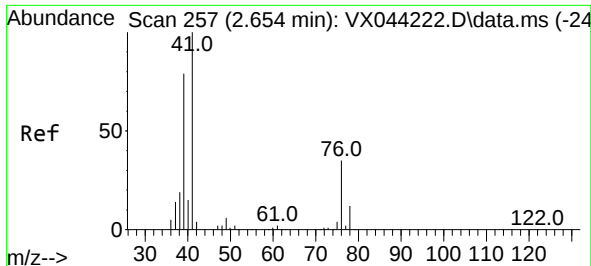
Tgt Ion: 94 Resp: 847  
Ion Ratio Lower Upper  
94 100  
96 33.4 74.9 112.3#



#13  
Acrolein  
Concen: 0.457 ug/l  
RT: 2.239 min Scan# 189  
Delta R.T. -0.000 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

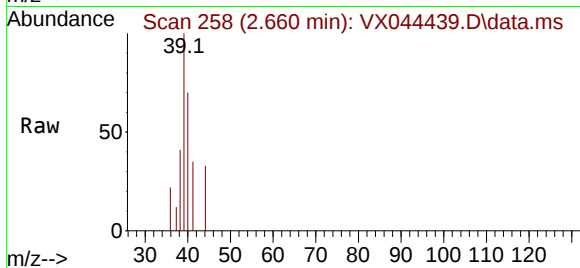
Tgt Ion: 56 Resp: 203  
Ion Ratio Lower Upper  
56 100  
55 83.3 56.6 84.8



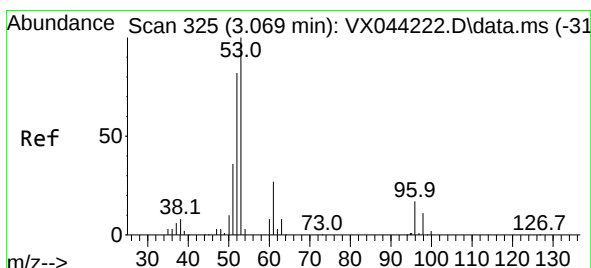
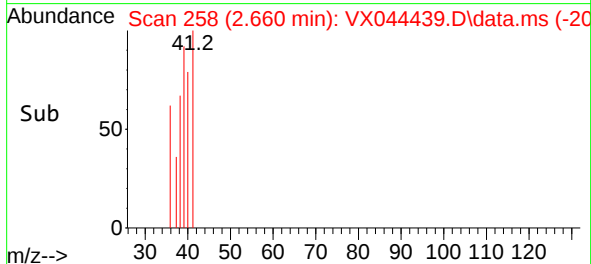
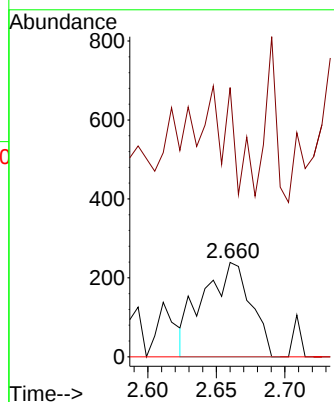


#14  
 Allyl chloride  
 Concen: 0.251 ug/l  
 RT: 2.660 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VX044439.D  
 Acq: 20 Dec 2024 10:00

Instrument :  
 MSVOA\_X  
 ClientSampleId :

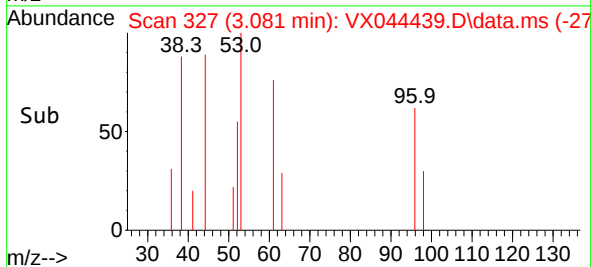
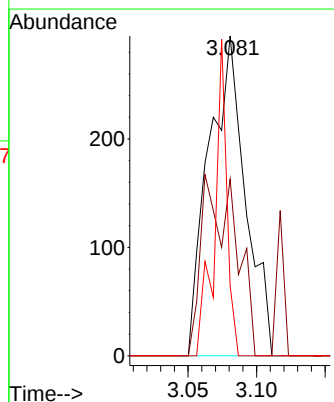
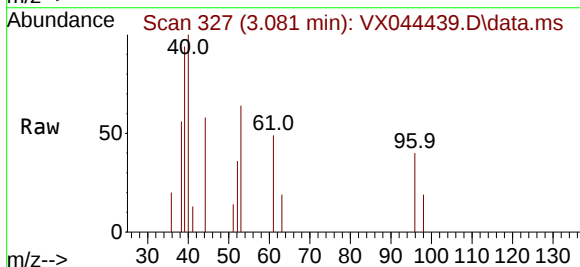


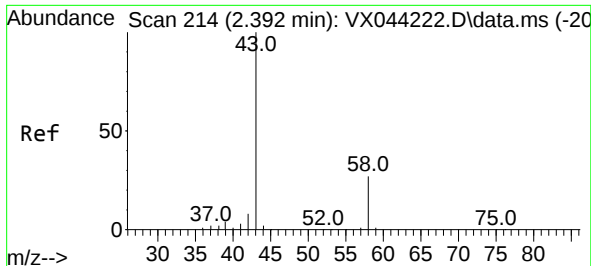
Tgt Ion: 41 Resp: 583  
 Ion Ratio Lower Upper  
 41 100  
 39 0.0 61.9 92.9#  
 76 0.0 27.4 41.2#



#15  
 Acrylonitrile  
 Concen: 0.647 ug/l  
 RT: 3.081 min Scan# 327  
 Delta R.T. 0.012 min  
 Lab File: VX044439.D  
 Acq: 20 Dec 2024 10:00

Tgt Ion: 53 Resp: 550  
 Ion Ratio Lower Upper  
 53 100  
 52 52.4 67.4 101.0#  
 51 33.1 30.3 45.5

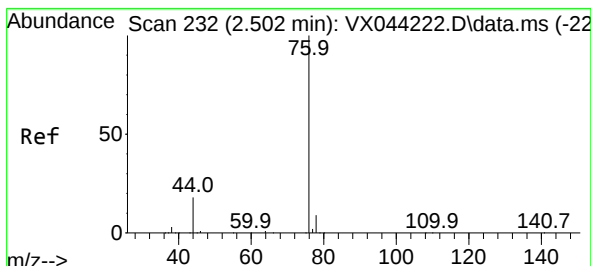
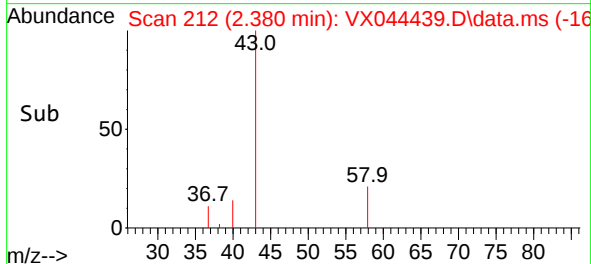
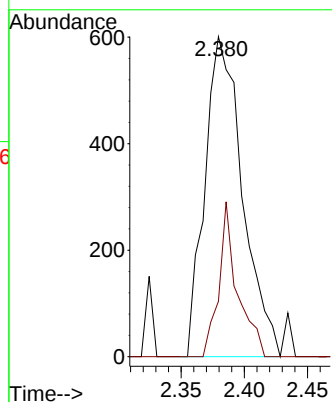
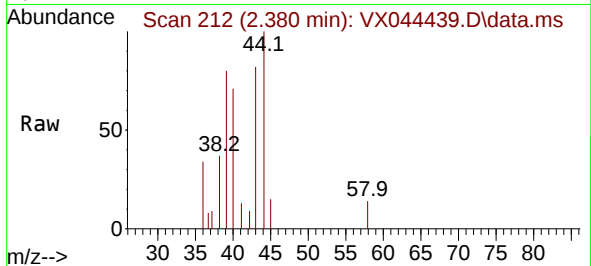




#16  
Acetone  
Concen: 1.399 ug/l  
RT: 2.380 min Scan# 214  
Delta R.T. -0.012 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

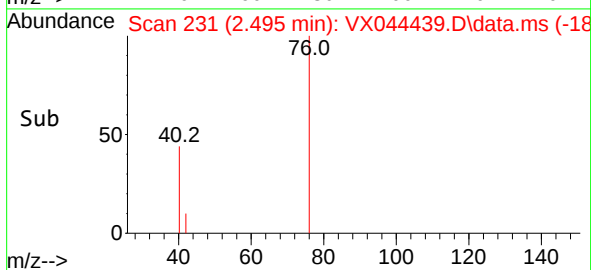
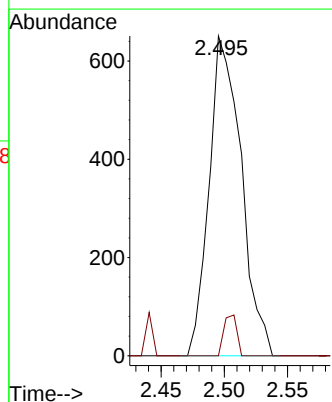
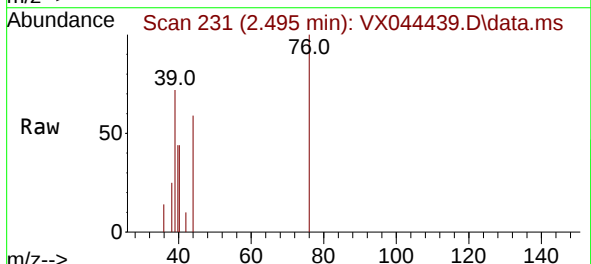
Instrument :  
MSVOA\_X  
ClientSampleId :

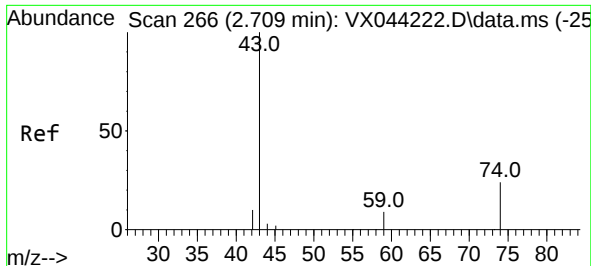
Tgt Ion: 43 Resp: 1243  
Ion Ratio Lower Upper  
43 100  
58 17.3 21.6 32.4#



#17  
Carbon Disulfide  
Concen: 0.434 ug/l  
RT: 2.495 min Scan# 231  
Delta R.T. -0.006 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

Tgt Ion: 76 Resp: 1148  
Ion Ratio Lower Upper  
76 100  
78 0.0 7.4 11.0#

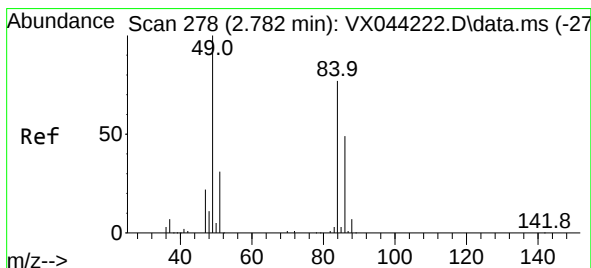
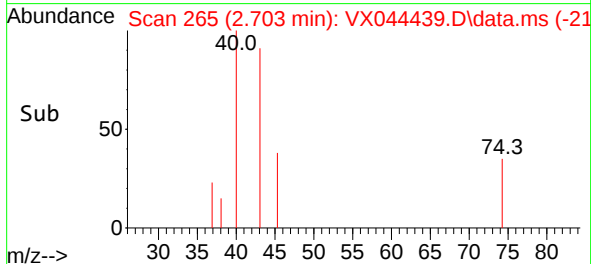
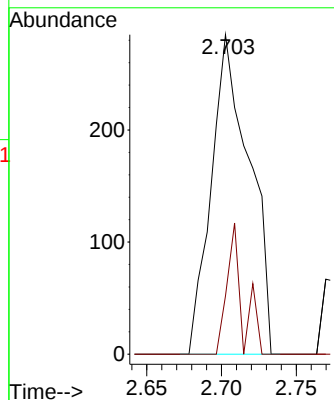
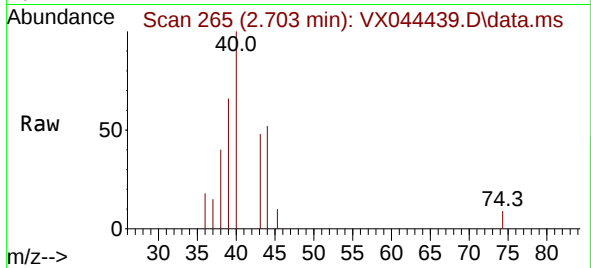




#18  
Methyl Acetate  
Concen: 0.220 ug/l  
RT: 2.703 min Scan# 218  
Delta R.T. -0.006 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

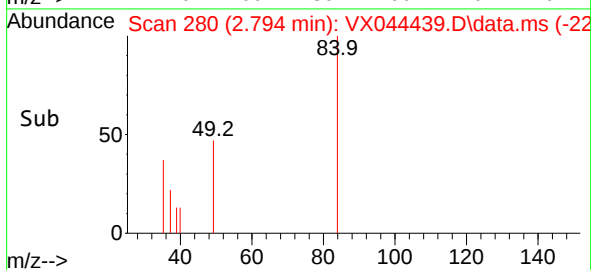
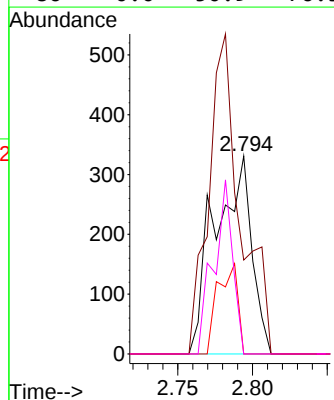
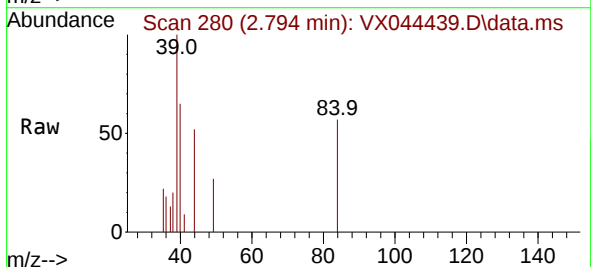
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MSVOA\_X  
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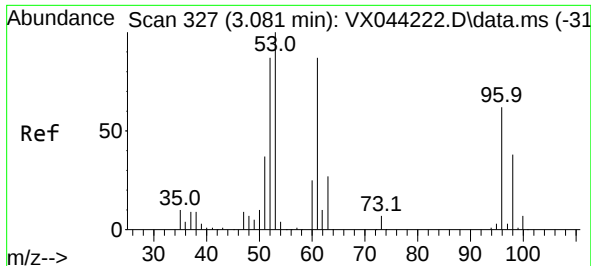
Tgt Ion: 43 Resp: 504  
Ion Ratio Lower Upper  
43 100  
74 16.9 17.7 26.5#



#20  
Methylene Chloride  
Concen: 0.339 ug/l  
RT: 2.794 min Scan# 280  
Delta R.T. 0.012 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

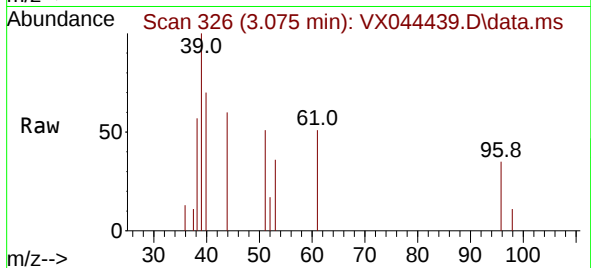
Tgt Ion: 84 Resp: 565  
Ion Ratio Lower Upper  
84 100  
49 47.4 104.2 156.4#  
51 0.0 32.2 48.4#  
86 0.0 50.9 76.3#



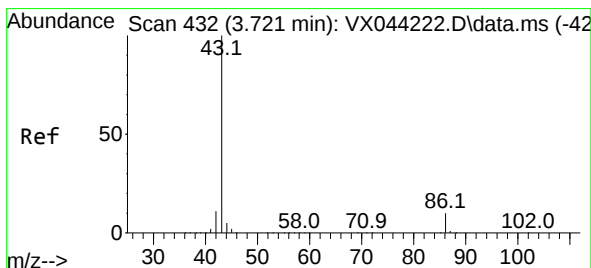
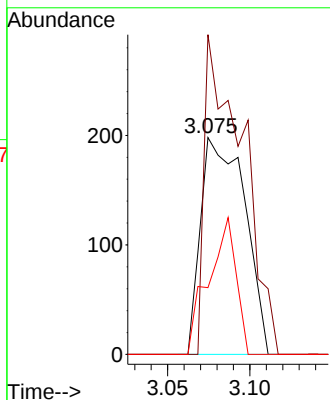
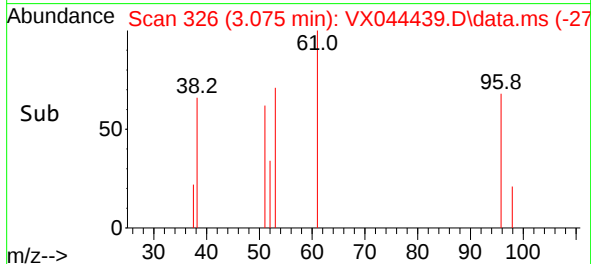


#21  
trans-1,2-Dichloroethene  
Concen: 0.249 ug/l  
RT: 3.075 min Scan# 31  
Delta R.T. -0.006 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

Instrument :  
MSVOA\_X  
ClientSampleId :

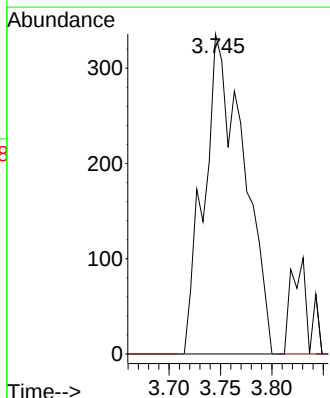
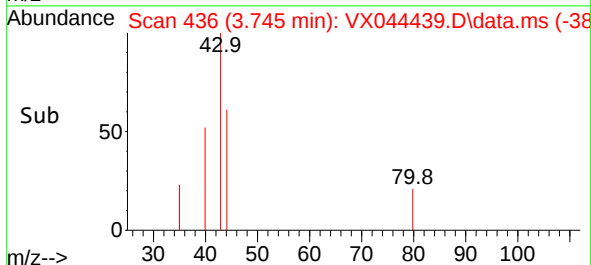
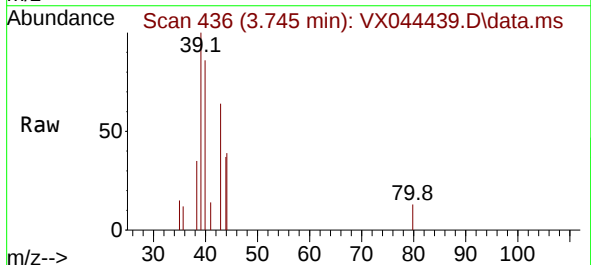


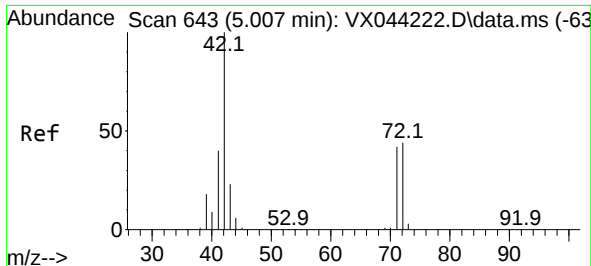
Tgt Ion: 96 Resp: 369  
Ion Ratio Lower Upper  
96 100  
61 147.5 112.0 168.0  
98 30.8 48.8 73.2#



#23  
Vinyl Acetate  
Concen: 0.212 ug/l  
RT: 3.745 min Scan# 436  
Delta R.T. 0.024 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

Tgt Ion: 43 Resp: 901  
Ion Ratio Lower Upper  
43 100  
86 0.0 8.2 12.2#





#29

Tetrahydrofuran

Concen: 0.397 ug/l

RT: 5.062 min Scan# 61

Delta R.T. 0.055 min

Lab File: VX044439.D

Acq: 20 Dec 2024 10:00

Instrument :

MSVOA\_X

ClientSampleId :

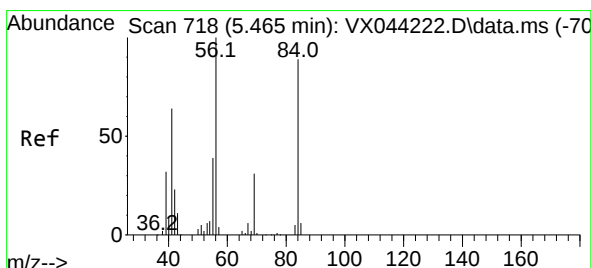
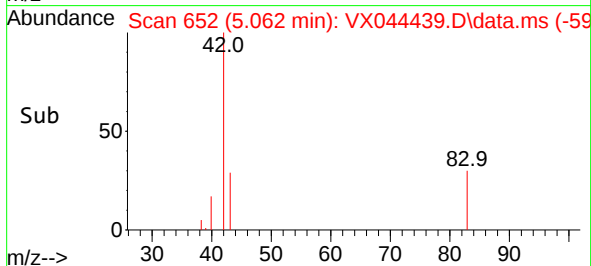
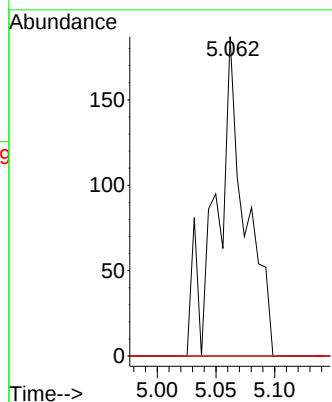
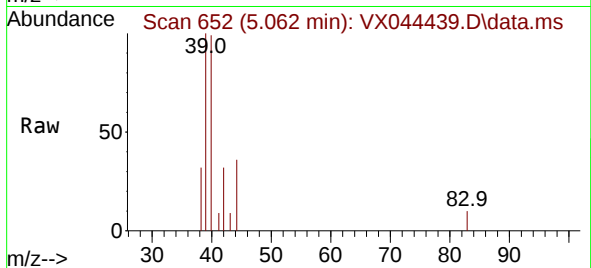
Tgt Ion: 42 Resp: 322

Ion Ratio Lower Upper

42 100

72 0.0 37.0 55.6#

71 0.0 33.6 50.4#



#31

Cyclohexane

Concen: 1.288 ug/l

RT: 5.537 min Scan# 730

Delta R.T. 0.073 min

Lab File: VX044439.D

Acq: 20 Dec 2024 10:00

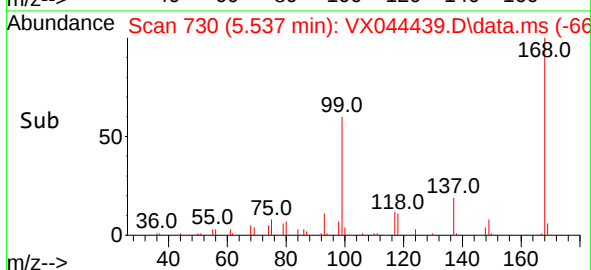
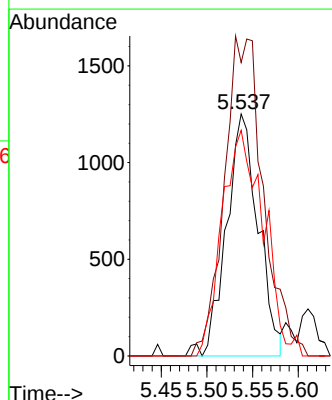
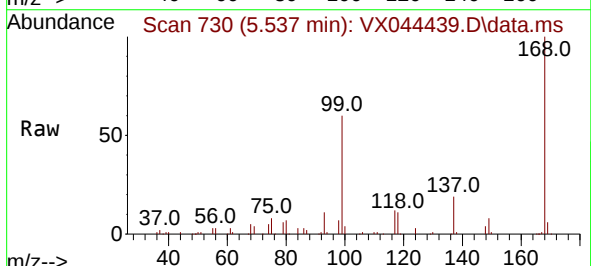
Tgt Ion: 56 Resp: 3029

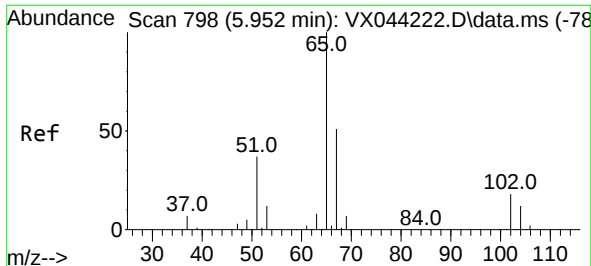
Ion Ratio Lower Upper

56 100

69 121.3 24.7 37.1#

84 93.3 71.0 106.6





#33

1,2-Dichloroethane-d4

Concen: 42.870 ug/l

RT: 5.946 min Scan# 798

Delta R.T. -0.006 min

Lab File: VX044439.D

Acq: 20 Dec 2024 10:00

Instrument :

MSVOA\_X

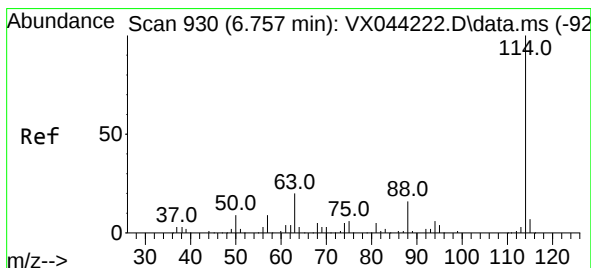
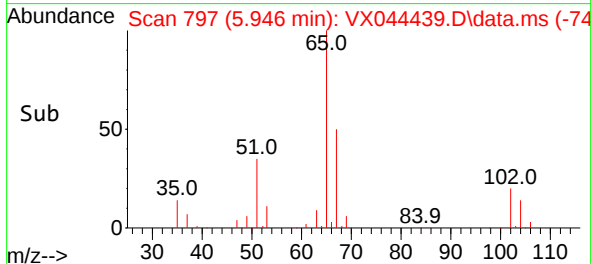
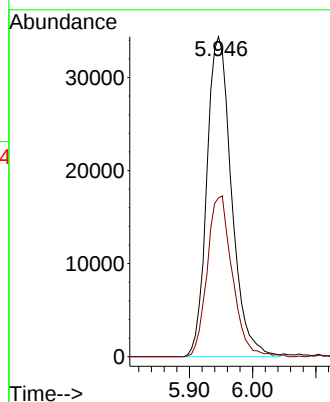
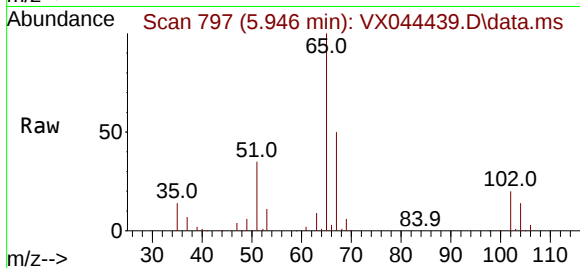
ClientSampleId :

Tgt Ion: 65 Resp: 93416

Ion Ratio Lower Upper

65 100

67 50.9 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.751 min Scan# 929

Delta R.T. -0.006 min

Lab File: VX044439.D

Acq: 20 Dec 2024 10:00

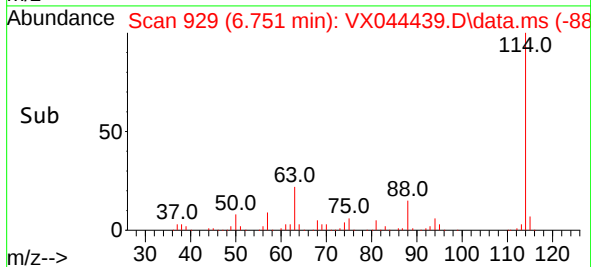
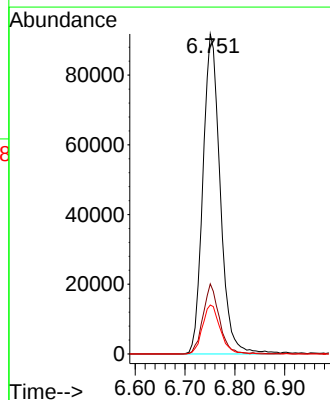
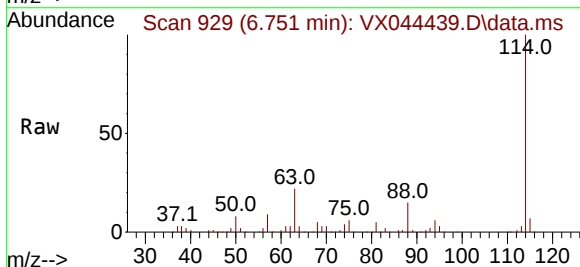
Tgt Ion: 114 Resp: 220866

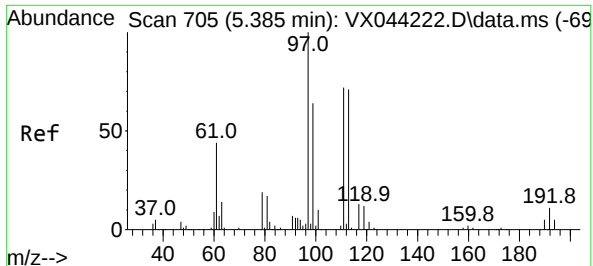
Ion Ratio Lower Upper

114 100

63 21.9 0.0 40.6

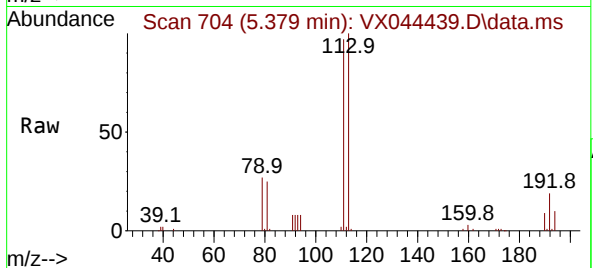
88 15.3 0.0 31.8



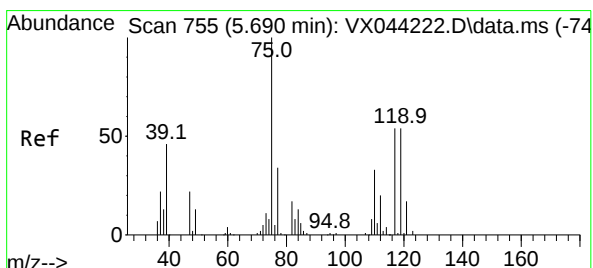
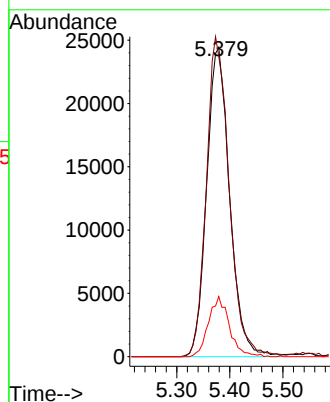
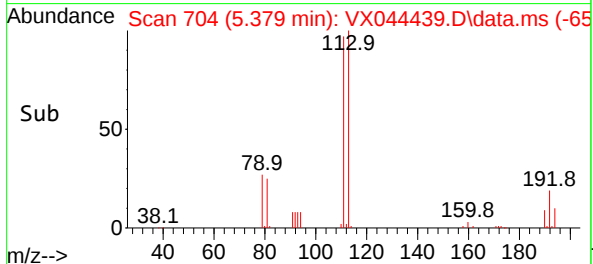


#35  
Dibromofluoromethane  
Concen: 48.052 ug/l  
RT: 5.379 min Scan# 705  
Delta R.T. -0.006 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

Instrument :  
MSVOA\_X  
ClientSampleId :

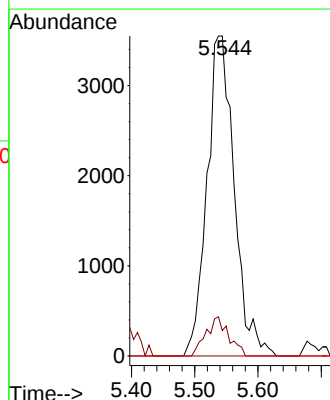
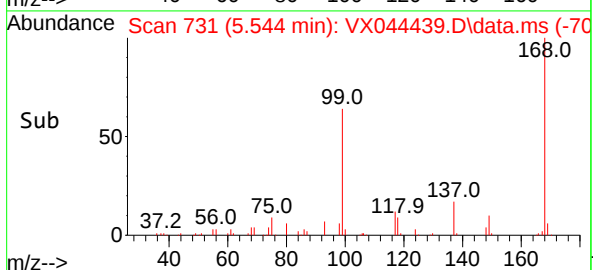
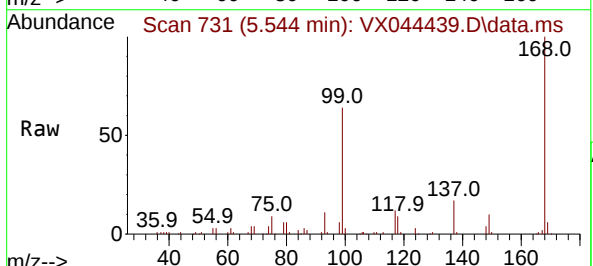


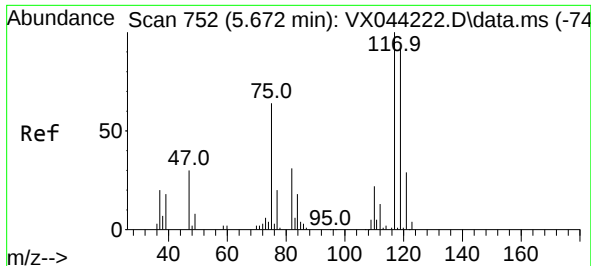
Tgt Ion:113 Resp: 73505  
Ion Ratio Lower Upper  
113 100  
111 102.8 80.4 120.6  
192 17.7 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 5.374 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.146 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

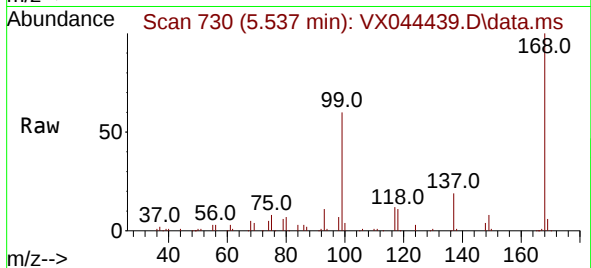
Tgt Ion: 75 Resp: 10626  
Ion Ratio Lower Upper  
75 100  
110 10.1 17.3 51.7#  
77 0.0 25.4 38.0#



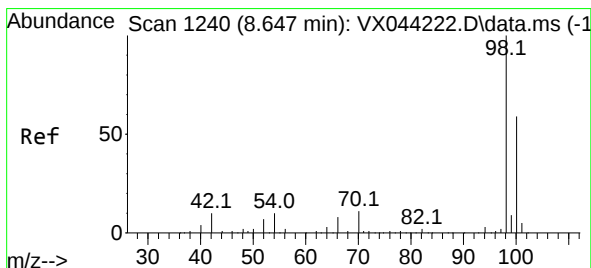
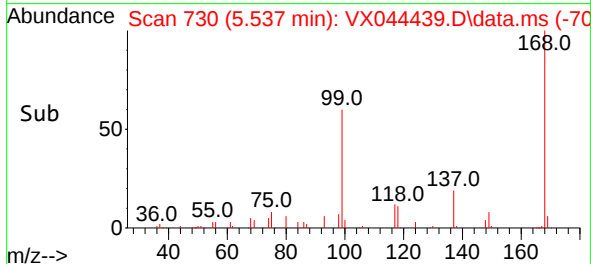
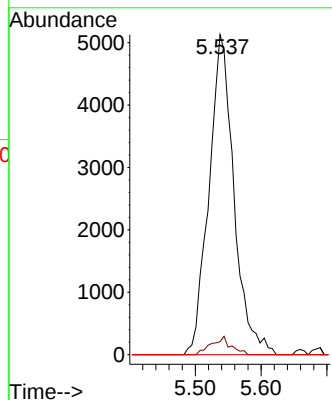


#38  
Carbon Tetrachloride  
Concen: 6.359 ug/l  
RT: 5.537 min Scan# 71  
Delta R.T. -0.134 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

Instrument :  
MSVOA\_X  
ClientSampleId :

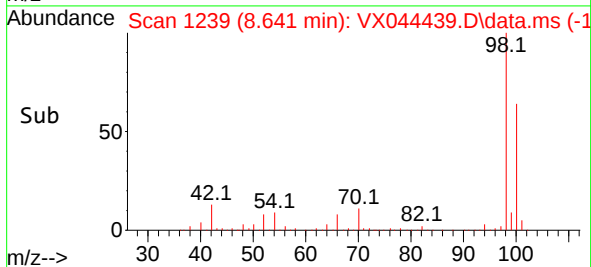
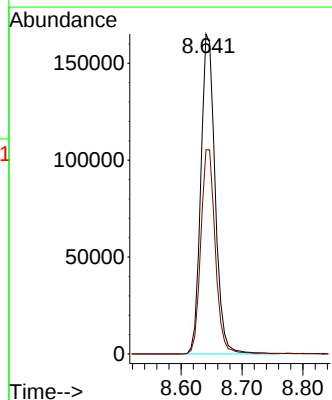
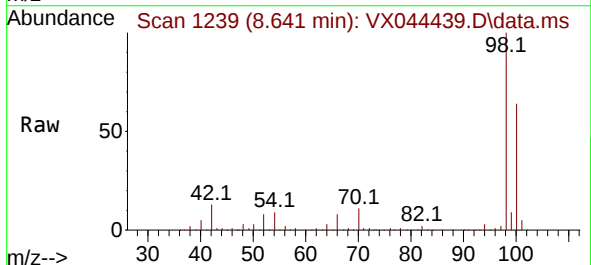


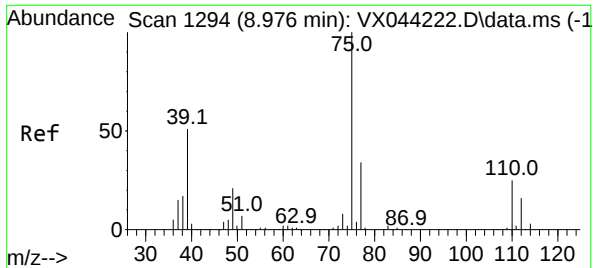
Tgt Ion:117 Resp: 13538  
Ion Ratio Lower Upper  
117 100  
119 4.0 74.2 111.4#  
121 0.0 23.0 34.6#



#50  
Toluene-d8  
Concen: 52.172 ug/l  
RT: 8.641 min Scan# 1239  
Delta R.T. -0.006 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

Tgt Ion: 98 Resp: 269249  
Ion Ratio Lower Upper  
98 100  
100 64.5 51.5 77.3





#53

t-1,3-Dichloropropene

Concen: 1.048 ug/l

RT: 9.000 min Scan# 111

Delta R.T. 0.024 min

Lab File: VX044439.D

Acq: 20 Dec 2024 10:00

Instrument :

MSVOA\_X

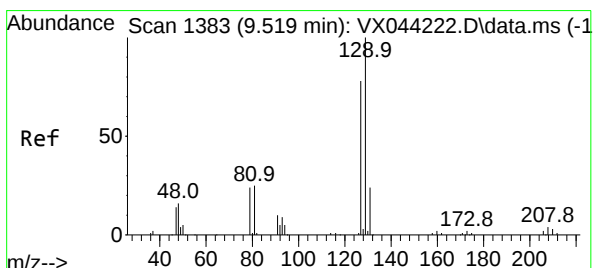
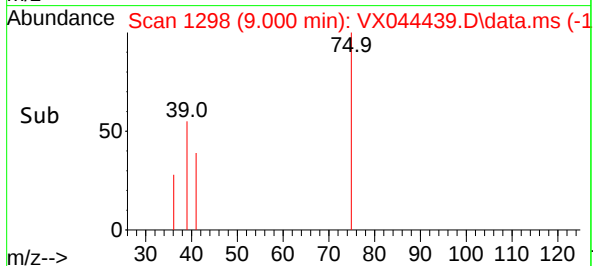
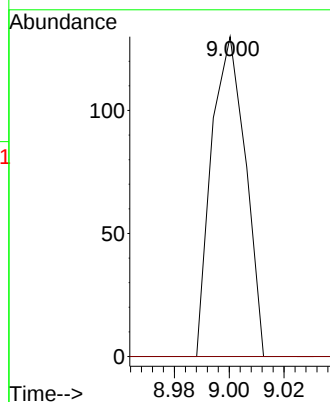
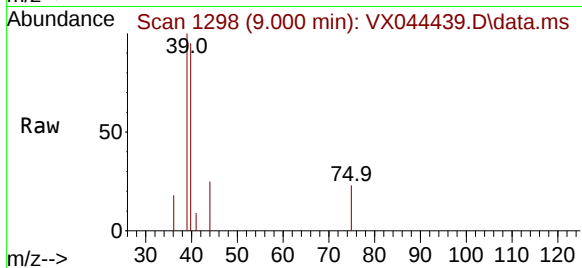
ClientSampleId :

Tgt Ion: 75 Resp: 111

Ion Ratio Lower Upper

75 100

77 0.0 27.2 40.8#



#60

Dibromochloromethane

Concen: 1.248 ug/l

RT: 9.512 min Scan# 1382

Delta R.T. -0.006 min

Lab File: VX044439.D

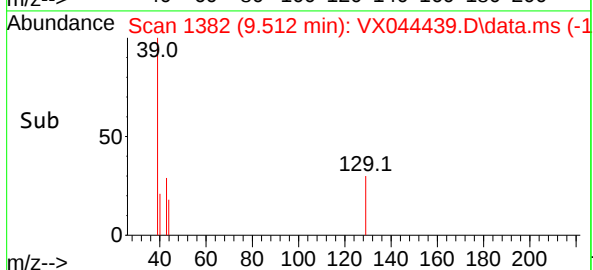
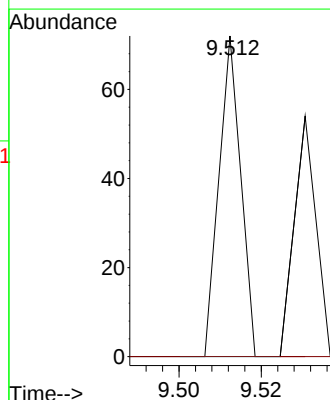
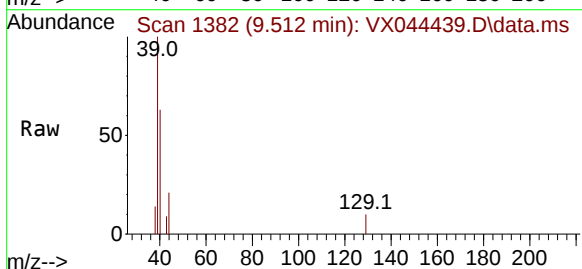
Acq: 20 Dec 2024 10:00

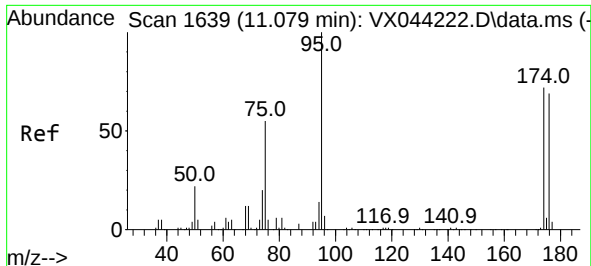
Tgt Ion:129 Resp: 26

Ion Ratio Lower Upper

129 100

127 0.0 38.5 115.3#

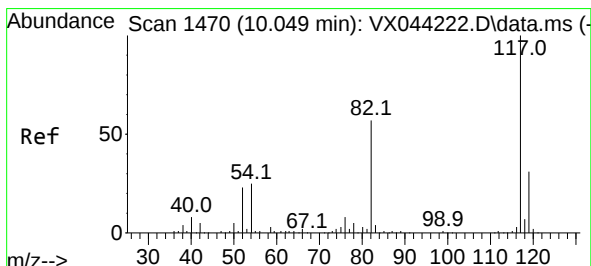
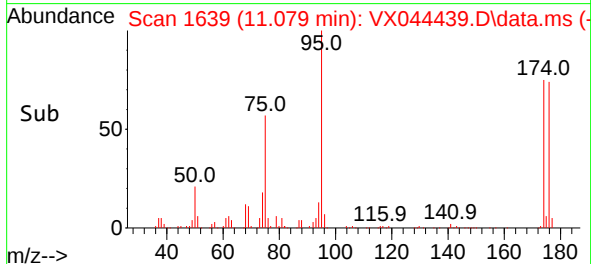
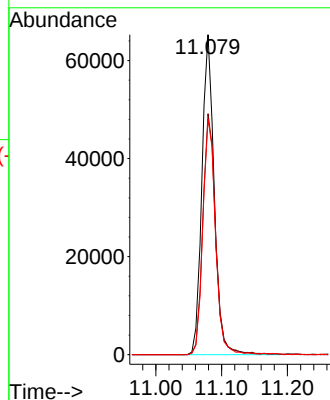
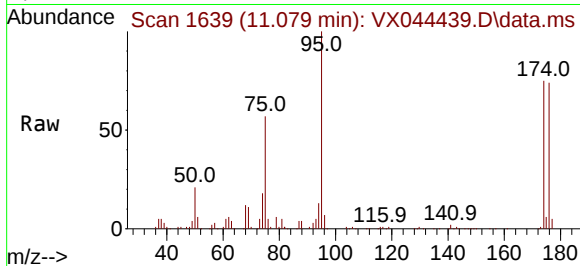




#62  
4-Bromofluorobenzene  
Concen: 47.205 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

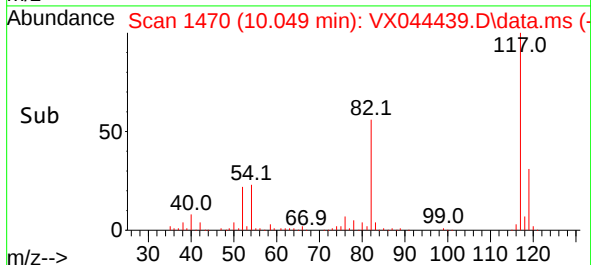
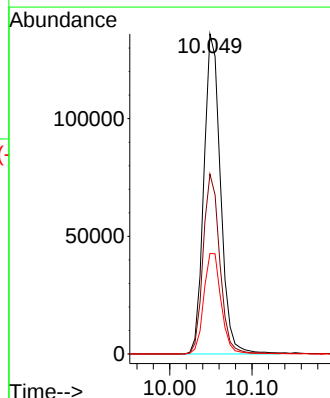
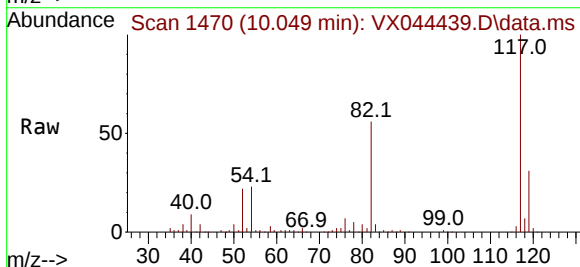
Instrument :  
MSVOA\_X  
ClientSampleId :

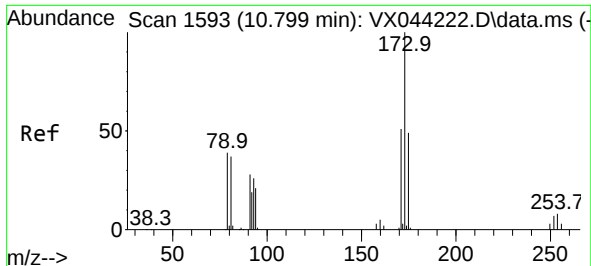
Tgt Ion: 95 Resp: 85125  
Ion Ratio Lower Upper  
95 100  
174 77.9 0.0 145.8  
176 75.1 0.0 137.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.049 min Scan# 1470  
Delta R.T. -0.000 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

Tgt Ion: 117 Resp: 191861  
Ion Ratio Lower Upper  
117 100  
82 56.2 45.8 68.8  
119 31.4 25.0 37.4

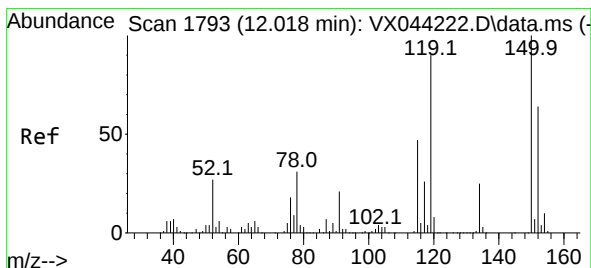
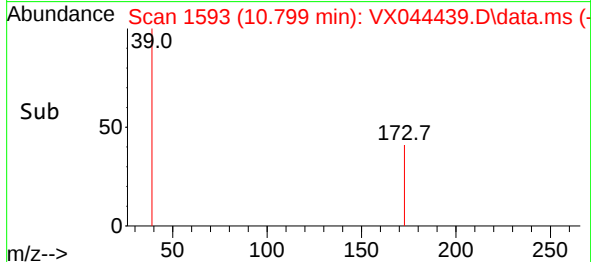
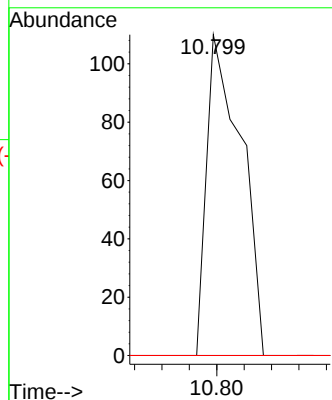
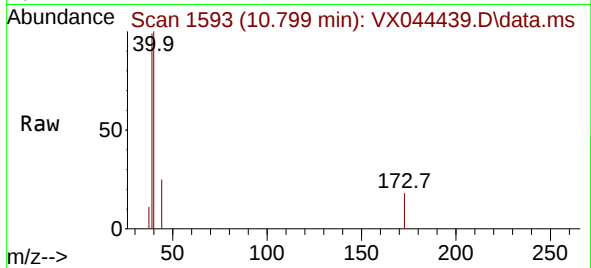




#71  
Bromoform  
Concen: 1.343 ug/l  
RT: 10.799 min Scan# 1593  
Delta R.T. -0.000 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

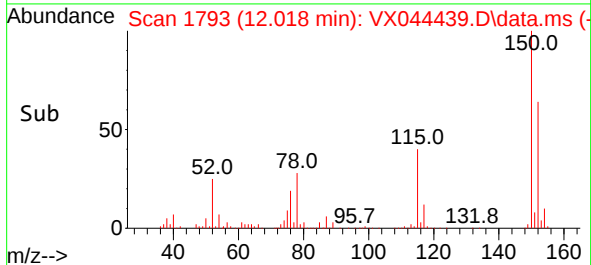
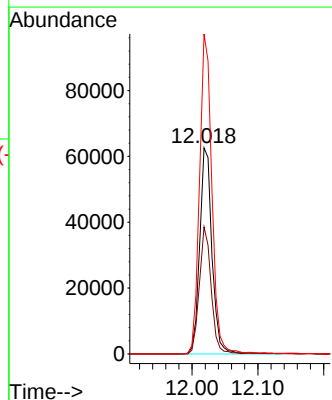
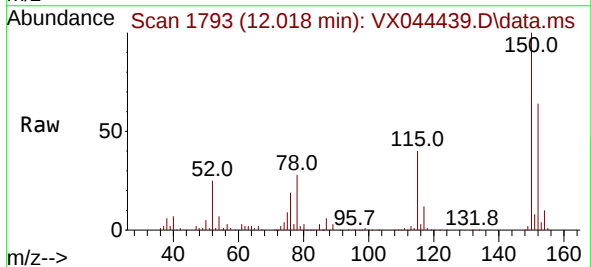
Instrument :  
MSVOA\_X  
ClientSampleId :

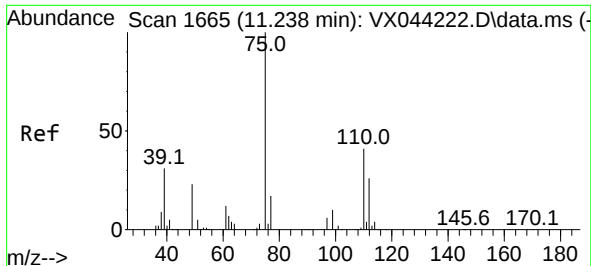
Tgt Ion:173 Resp: 96  
Ion Ratio Lower Upper  
173 100  
175 0.0 23.8 71.4#  
254 0.0 0.0 0.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.018 min Scan# 1793  
Delta R.T. -0.000 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

Tgt Ion:152 Resp: 81415  
Ion Ratio Lower Upper  
152 100  
115 58.9 44.5 133.3  
150 155.4 0.0 353.8

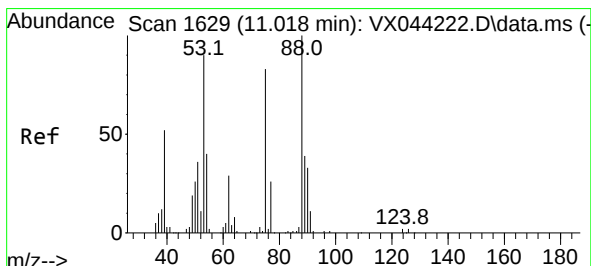
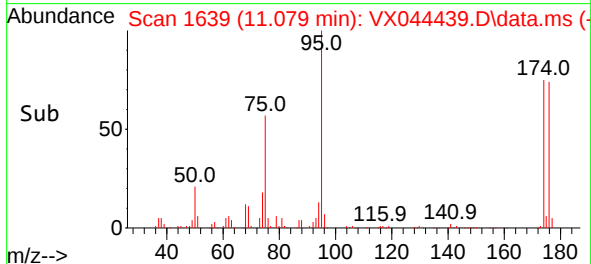
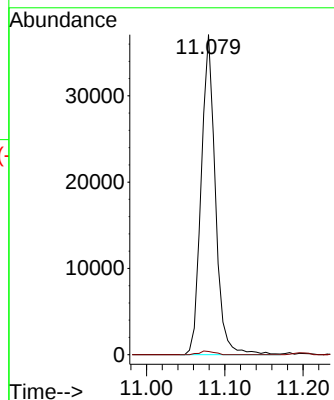
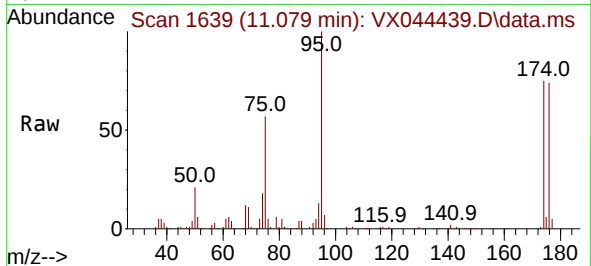




#76  
1,2,3-Trichloropropane  
Concen: 25.704 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

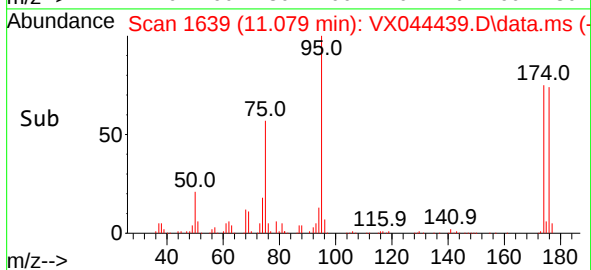
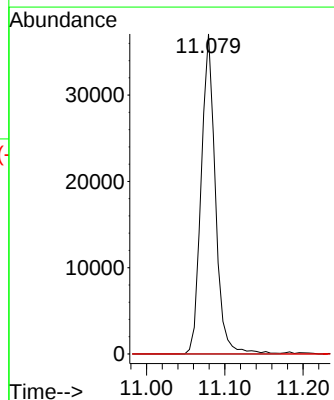
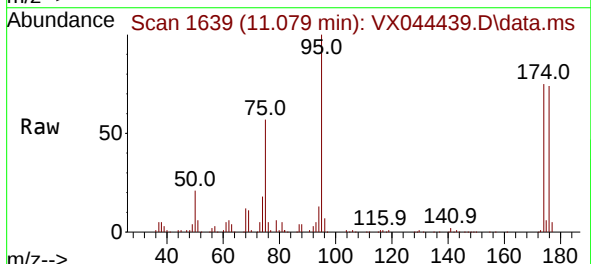
Instrument :  
MSVOA\_X  
ClientSampleId :

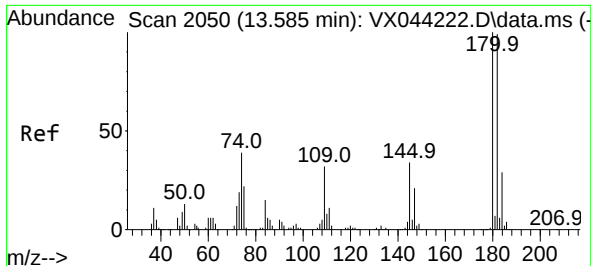
Tgt Ion: 75 Resp: 46725  
Ion Ratio Lower Upper  
75 100  
77 1.2 20.9 62.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 71.016 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

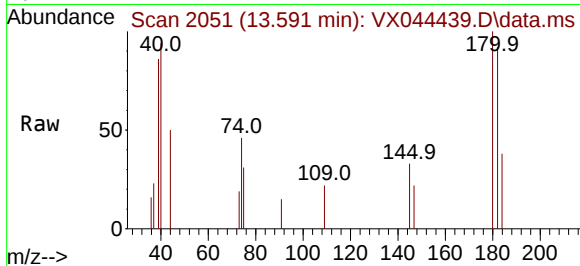
Tgt Ion: 75 Resp: 46725  
Ion Ratio Lower Upper  
75 100  
53 0.0 93.6 140.4#  
89 0.0 37.3 55.9#



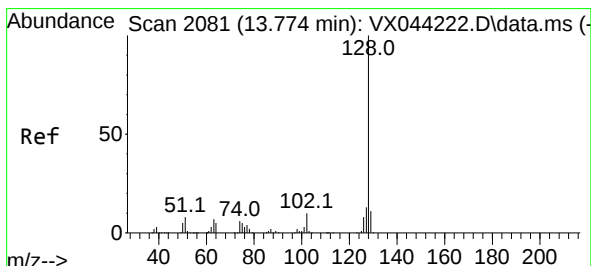
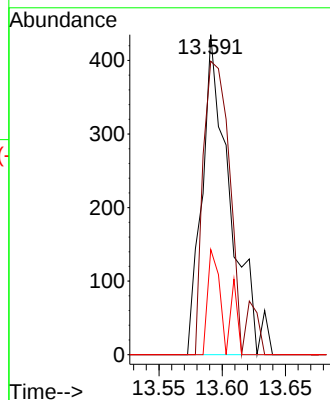
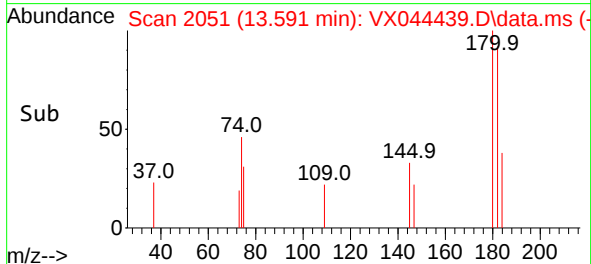


#93  
1,2,4-Trichlorobenzene  
Concen: 0.446 ug/l  
RT: 13.591 min Scan# 2051  
Delta R.T. 0.006 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00

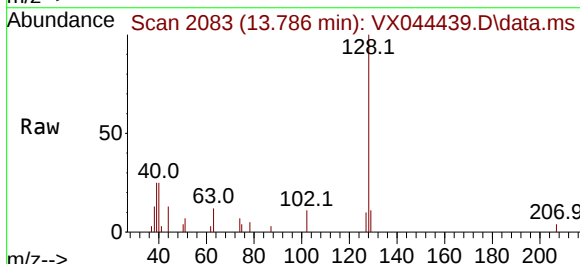
Instrument :  
MSVOA\_X  
ClientSampleId :



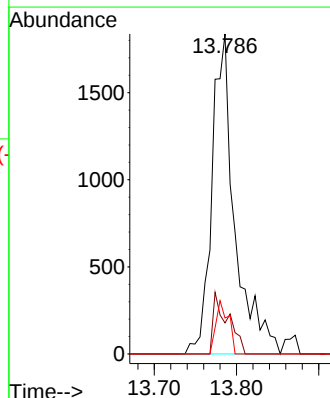
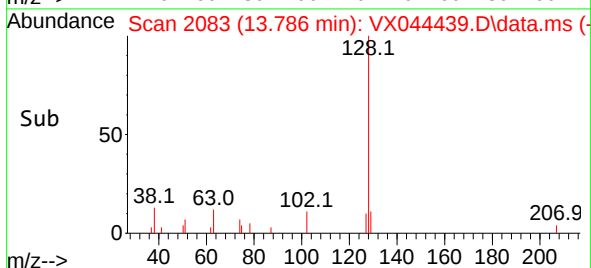
Tgt Ion:180 Resp: 671  
Ion Ratio Lower Upper  
180 100  
182 91.5 48.0 144.2  
145 19.4 16.6 49.7

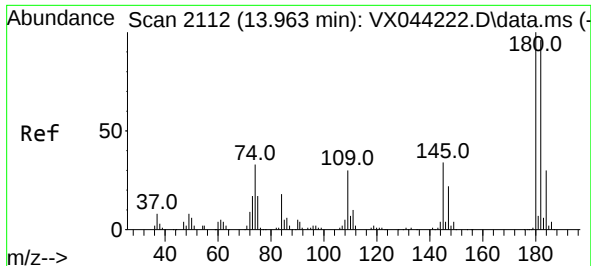


#95  
Naphthalene  
Concen: 0.606 ug/l  
RT: 13.786 min Scan# 2083  
Delta R.T. 0.012 min  
Lab File: VX044439.D  
Acq: 20 Dec 2024 10:00



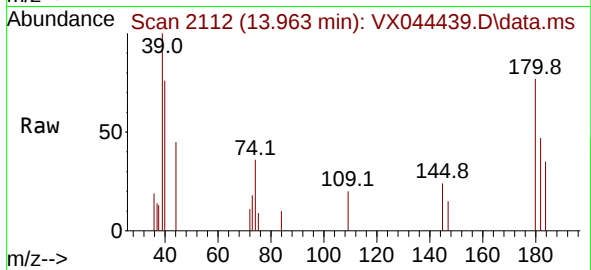
Tgt Ion:128 Resp: 3553  
Ion Ratio Lower Upper  
128 100  
127 12.5 10.5 15.7  
129 9.1 9.0 13.4





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.492 ug/l  
 RT: 13.963 min Scan# 21  
 Delta R.T. -0.000 min  
 Lab File: VX044439.D  
 Acq: 20 Dec 2024 10:00

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion:180 Resp: 785  
 Ion Ratio Lower Upper  
 180 100  
 182 74.8 48.0 144.0  
 145 31.7 17.7 53.1

