

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX122223\  
 Data File : VX039450.D  
 Acq On : 22 Dec 2023 19:07  
 Operator : JC/MD  
 Sample : 05975-05RE  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Dec 23 06:29:25 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121323W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Dec 14 01:28:15 2023  
 Response via : Initial Calibration

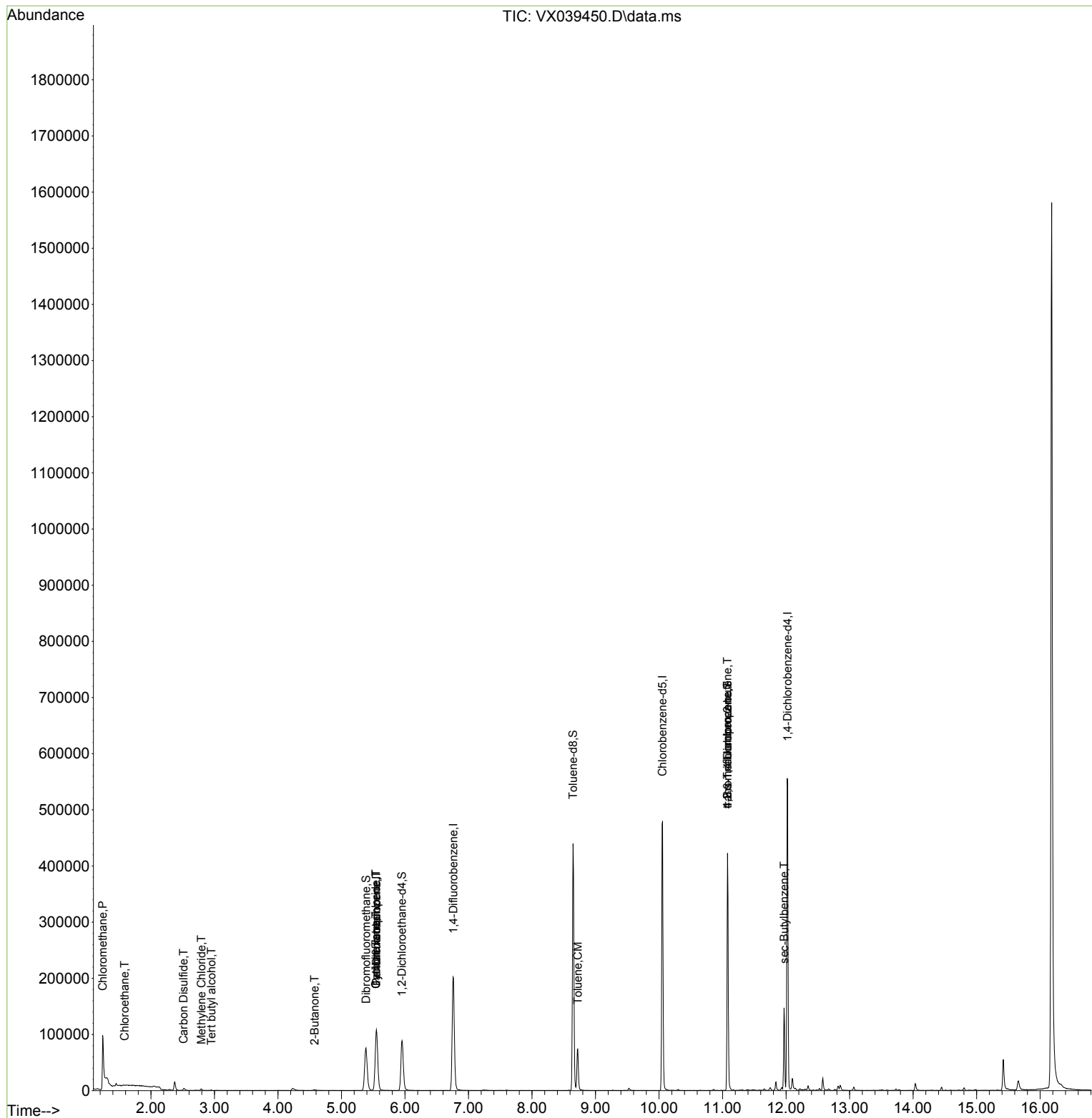
| Compound                      | R.T. QIon |       | Response | Conc      | Units      | Dev(Min) |
|-------------------------------|-----------|-------|----------|-----------|------------|----------|
| -----                         |           |       |          |           |            |          |
| Internal Standards            |           |       |          |           |            |          |
| 1) Pentafluorobenzene         | 5.550     | 168   | 92060    | 50.000    | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763     | 114   | 194879   | 50.000    | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055    | 117   | 208334   | 50.000    | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024    | 152   | 105914   | 50.000    | ug/l       | 0.00     |
| System Monitoring Compounds   |           |       |          |           |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952     | 65    | 85759    | 50.851    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 78 - 117 | Recovery  | = 101.700% |          |
| 35) Dibromofluoromethane      | 5.385     | 113   | 65195    | 48.425    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 75 - 124 | Recovery  | = 96.840%  |          |
| 50) Toluene-d8                | 8.647     | 98    | 251558   | 50.329    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 92 - 112 | Recovery  | = 100.660% |          |
| 62) 4-Bromofluorobenzene      | 11.079    | 95    | 112837   | 54.715    | ug/l       | 0.00     |
| Spiked Amount                 | 50.000    | Range | 83 - 123 | Recovery  | = 109.440% |          |
| Target Compounds              |           |       |          |           |            |          |
|                               |           |       |          |           | Qvalue     |          |
| 3) Chloromethane              | 1.239     | 50    | 2296     | 1.601     | ug/l #     | 43       |
| 6) Chloroethane               | 1.587     | 64    | 4631     | 5.762     | ug/l #     | 43       |
| 11) Tert butyl alcohol        | 2.953     | 59    | 470      | 1.110     | ug/l #     | 78       |
| 16) Acetone                   | 2.373     | 43    | 15935    | Below Cal |            | 95       |
| 17) Carbon Disulfide          | 2.514     | 76    | 1126     | 0.325     | ug/l       | 96       |
| 20) Methylene Chloride        | 2.794     | 84    | 1104     | 0.785     | ug/l #     | 80       |
| 25) 2-Butanone                | 4.574     | 43    | 2178     | 1.497     | ug/l       | 95       |
| 31) Cyclohexane               | 5.544     | 56    | 2660     | 1.221     | ug/l #     | 20       |
| 36) 1,1-Dichloropropene       | 5.550     | 75    | 8891     | 4.185     | ug/l #     | 50       |
| 38) Carbon Tetrachloride      | 5.544     | 117   | 10675    | 5.265     | ug/l #     | 14       |
| 52) Toluene                   | 8.720     | 92    | 27194    | 7.497     | ug/l       | 90       |
| 76) 1,2,3-Trichloropropane    | 11.079    | 75    | 62087    | 22.658    | ug/l #     | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079    | 75    | 62087    | 63.918    | ug/l #     | 5        |
| 85) sec-Butylbenzene          | 11.969    | 105   | 1782     | 0.211     | ug/l       | 93       |
| -----                         |           |       |          |           |            |          |

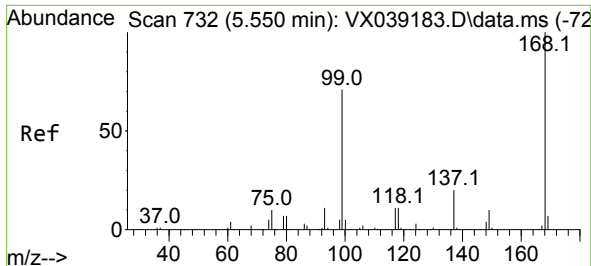
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_X  
ClientSampleId :

Quant Time: Dec 23 06:29:25 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X121323W.M  
Quant Title : SW846 8260  
QLast Update : Thu Dec 14 01:28:15 2023  
Response via : Initial Calibration

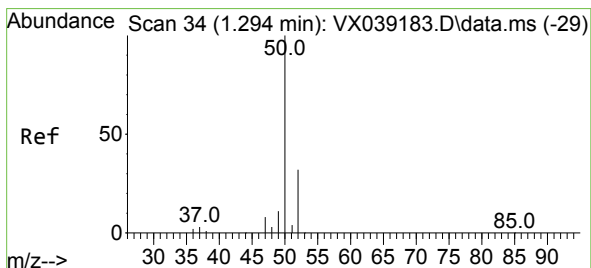
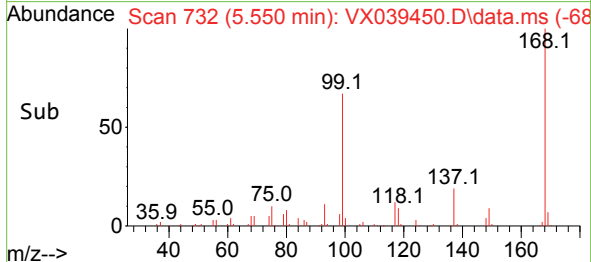
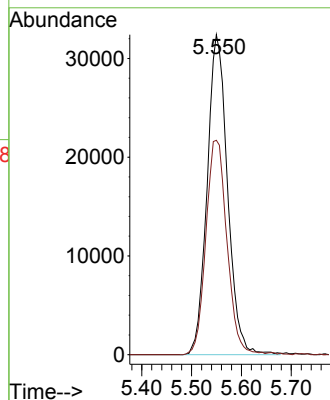
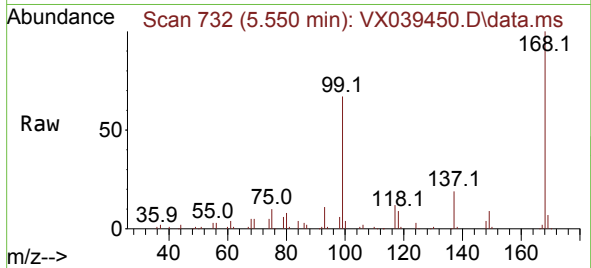




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

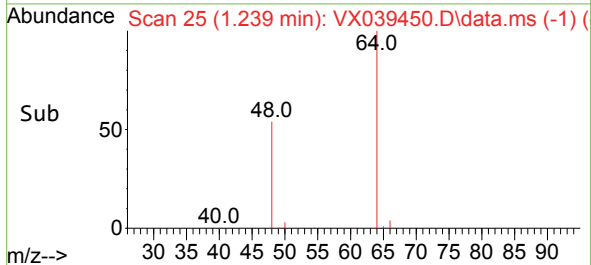
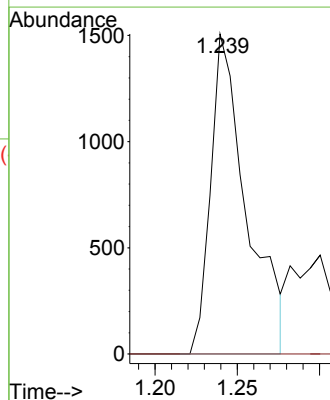
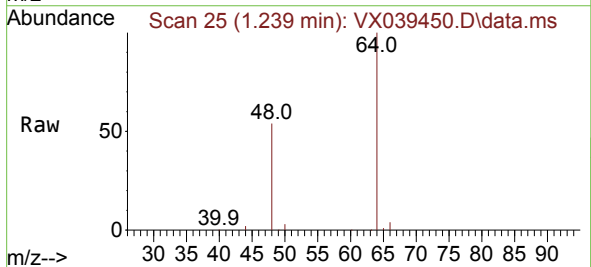
Instrument : MSVOA\_X  
ClientSampleId :

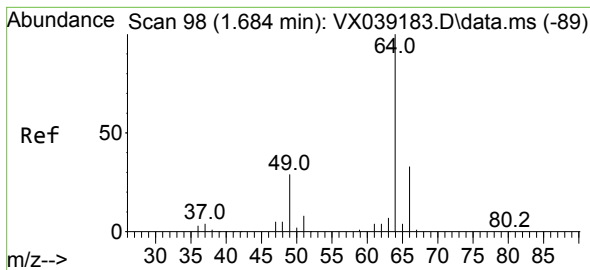
Tgt Ion:168 Resp: 92060  
Ion Ratio Lower Upper  
168 100  
99 67.0 56.6 85.0



#3  
Chloromethane  
Concen: 1.601 ug/l  
RT: 1.239 min Scan# 25  
Delta R.T. -0.055 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

Tgt Ion: 50 Resp: 2296  
Ion Ratio Lower Upper  
50 100  
52 0.0 25.5 38.3#





#6

Chloroethane

Concen: 5.762 ug/l

RT: 1.587 min Scan# 81

Delta R.T. -0.097 min

Lab File: VX039450.D

Acq: 22 Dec 2023 19:07

Instrument :

MSVOA\_X

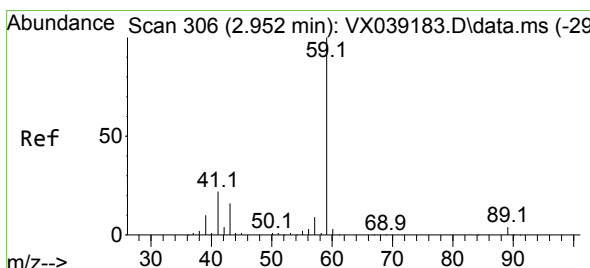
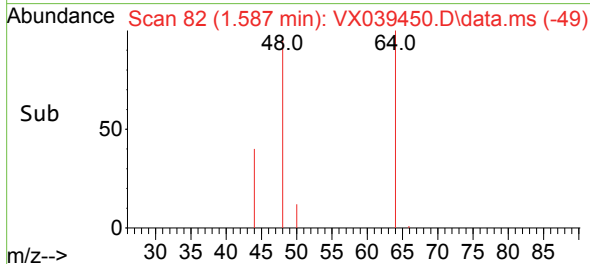
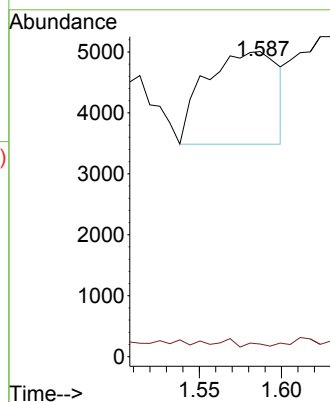
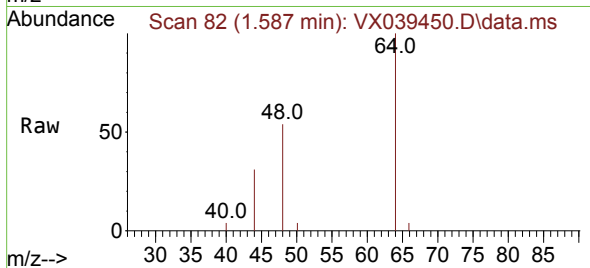
ClientSampleId :

Tgt Ion: 64 Resp: 4631

Ion Ratio Lower Upper

64 100

66 0.0 25.1 37.7#



#11

Tert butyl alcohol

Concen: 1.110 ug/l

RT: 2.953 min Scan# 306

Delta R.T. 0.000 min

Lab File: VX039450.D

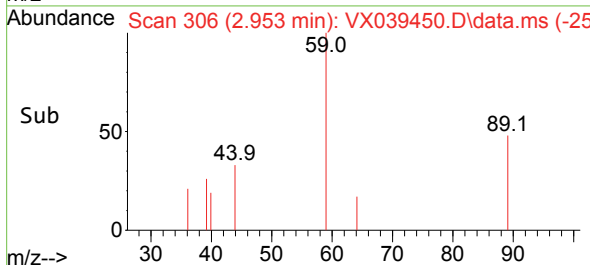
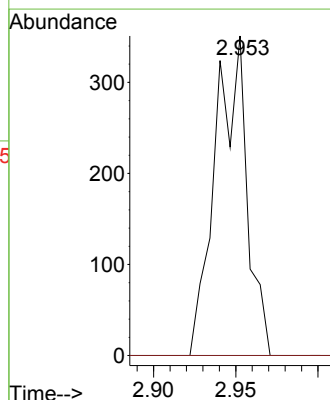
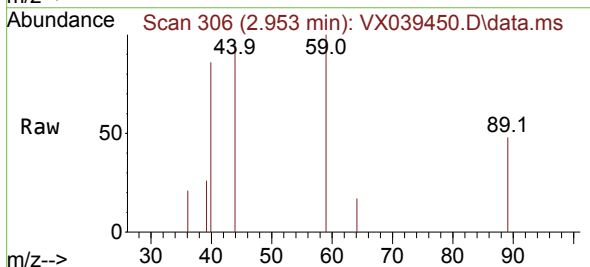
Acq: 22 Dec 2023 19:07

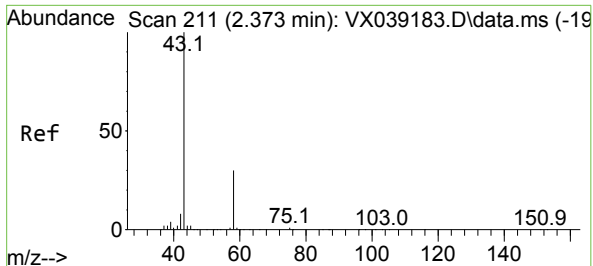
Tgt Ion: 59 Resp: 470

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#

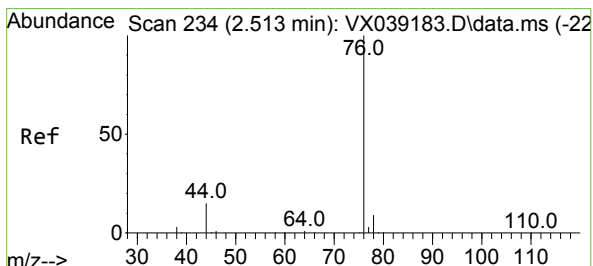
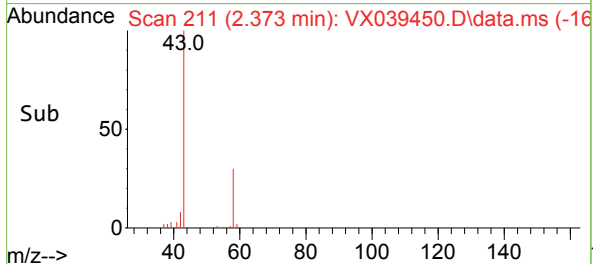
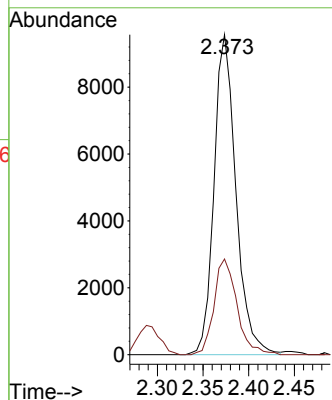
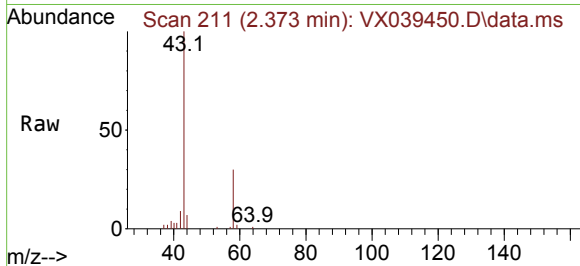




#16  
Acetone  
Concen: Below Cal  
RT: 2.373 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

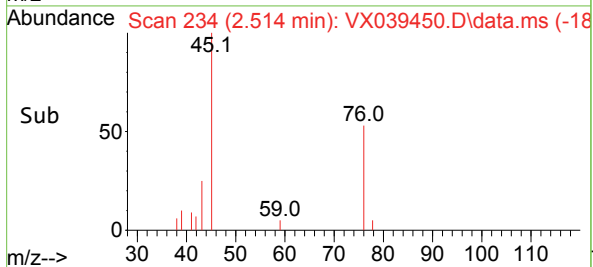
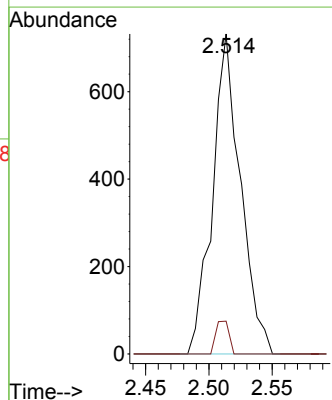
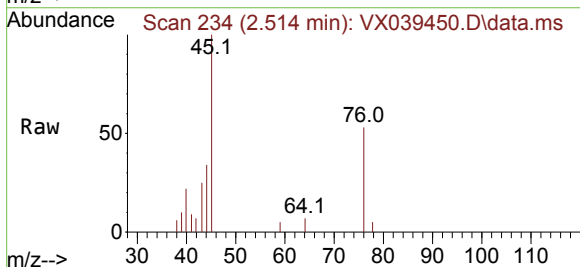
Instrument :  
MSVOA\_X  
ClientSampleId :

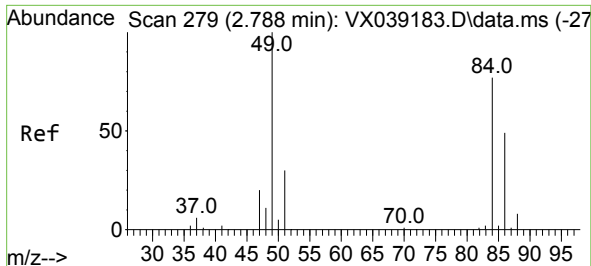
Tgt Ion: 43 Resp: 15935  
Ion Ratio Lower Upper  
43 100  
58 29.9 21.9 32.9



#17  
Carbon Disulfide  
Concen: 0.325 ug/l  
RT: 2.514 min Scan# 234  
Delta R.T. 0.000 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

Tgt Ion: 76 Resp: 1126  
Ion Ratio Lower Upper  
76 100  
78 10.2 7.0 10.6





#20

Methylene Chloride

Concen: 0.785 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

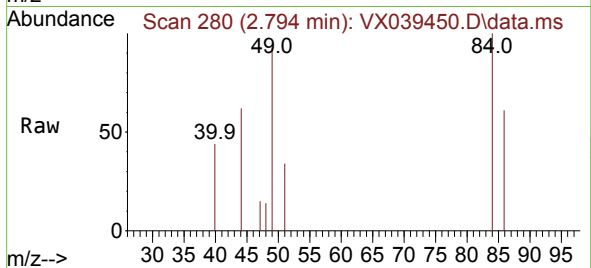
Lab File: VX039450.D

Acq: 22 Dec 2023 19:07

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 84 Resp: 1104

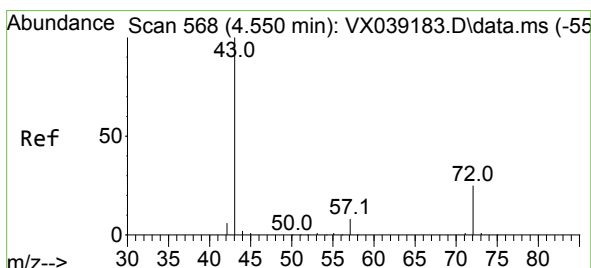
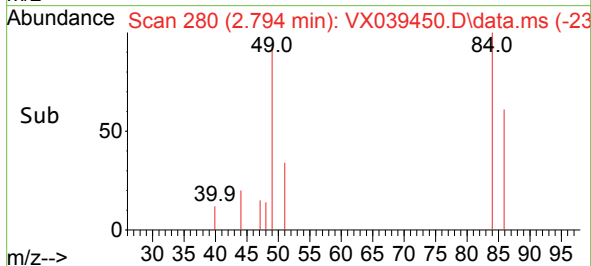
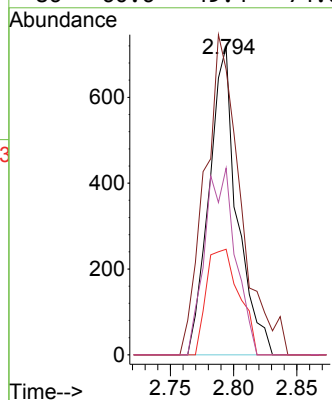
Ion Ratio Lower Upper

84 100

49 92.6 103.6 155.4#

51 34.3 33.8 50.6

86 60.6 49.4 74.0



#25

2-Butanone

Concen: 1.497 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.025 min

Lab File: VX039450.D

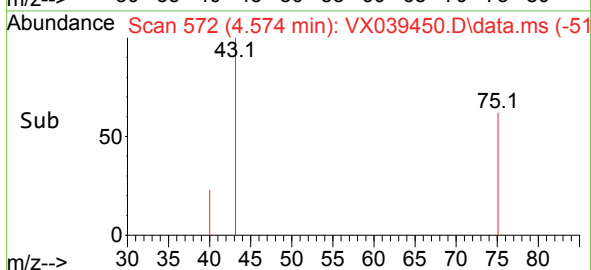
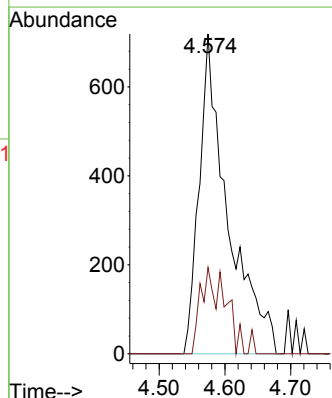
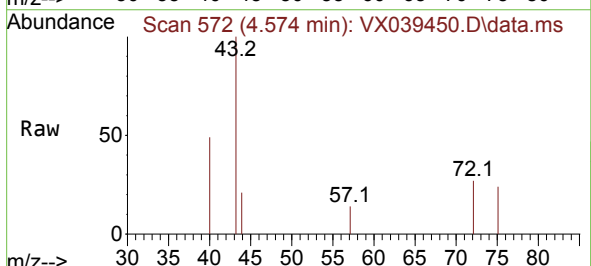
Acq: 22 Dec 2023 19:07

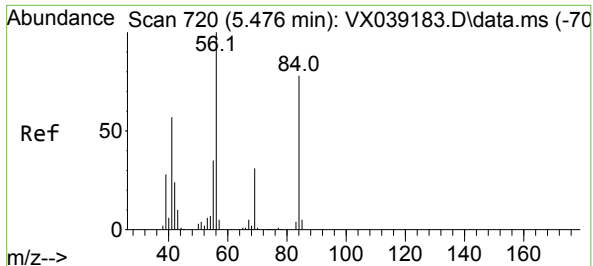
Tgt Ion: 43 Resp: 2178

Ion Ratio Lower Upper

43 100

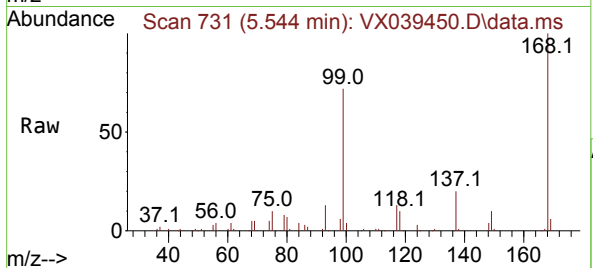
72 27.0 19.4 29.2



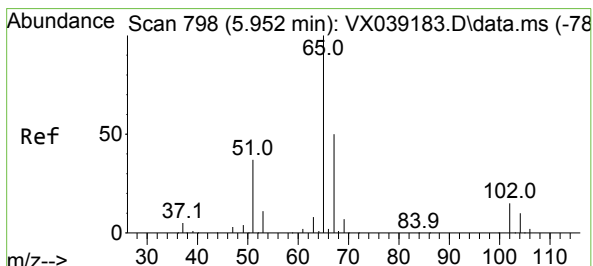
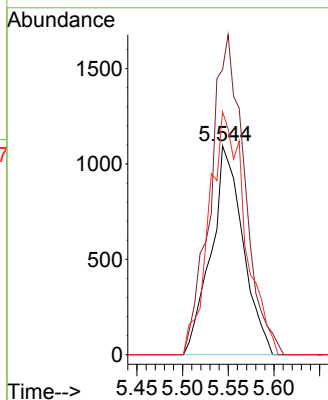
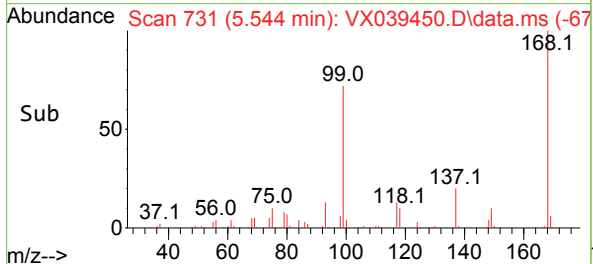


#31  
Cyclohexane  
Concen: 1.221 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. 0.067 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

Instrument :  
MSVOA\_X  
ClientSampleId :

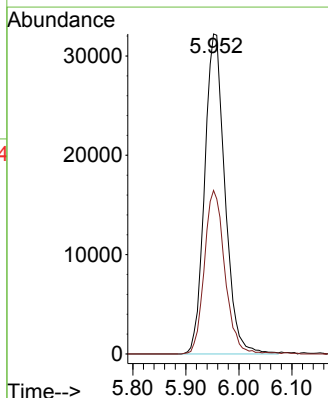
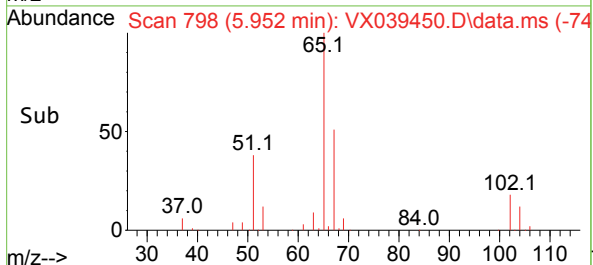
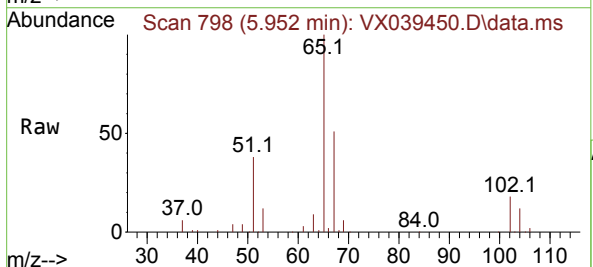


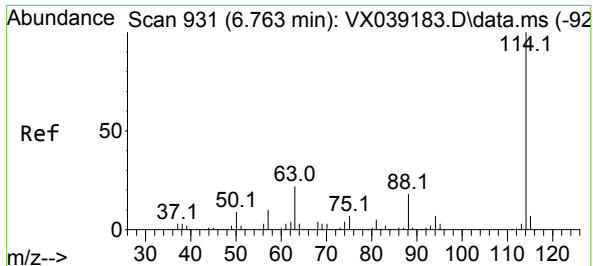
Tgt Ion: 56 Resp: 2660  
Ion Ratio Lower Upper  
56 100  
69 136.4 23.4 35.2#  
84 116.3 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 50.851 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

Tgt Ion: 65 Resp: 85759  
Ion Ratio Lower Upper  
65 100  
67 51.6 0.0 100.2

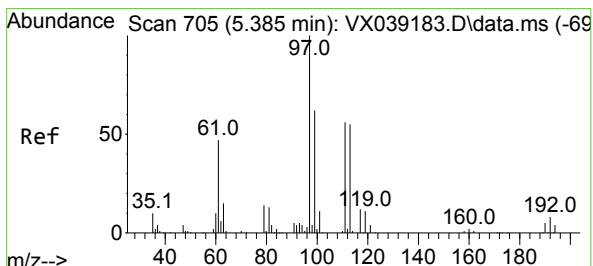
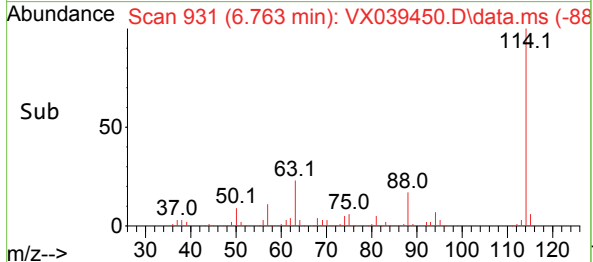
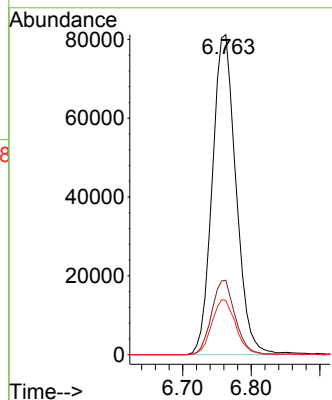
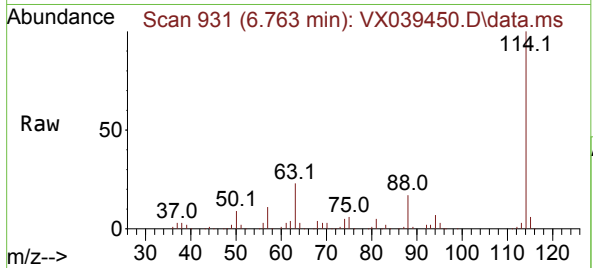




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

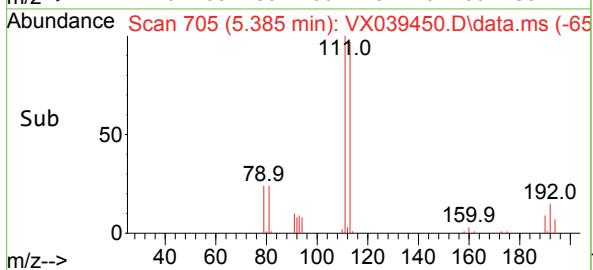
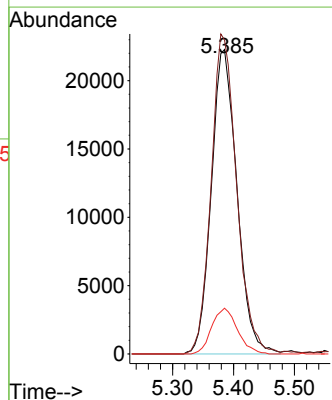
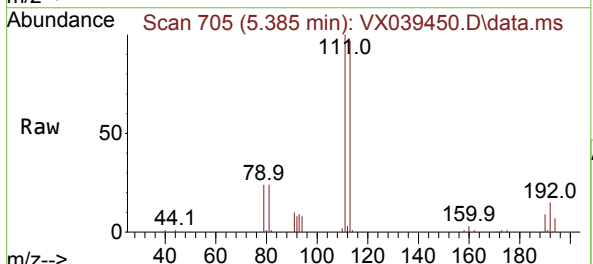
Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion:114 Resp: 194879  
Ion Ratio Lower Upper  
114 100  
63 23.2 0.0 45.0  
88 16.9 0.0 36.6

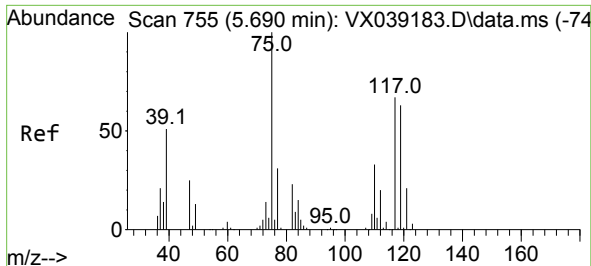


#35  
Dibromofluoromethane  
Concen: 48.425 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

Tgt Ion:113 Resp: 65195  
Ion Ratio Lower Upper  
113 100  
111 104.3 82.9 124.3  
192 15.1 13.3 19.9



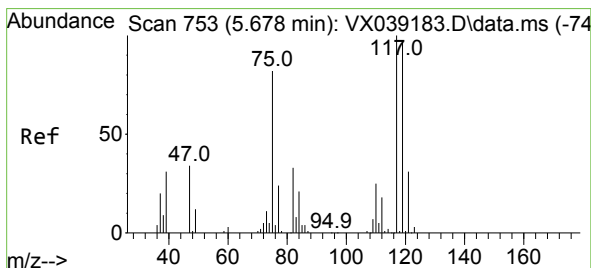
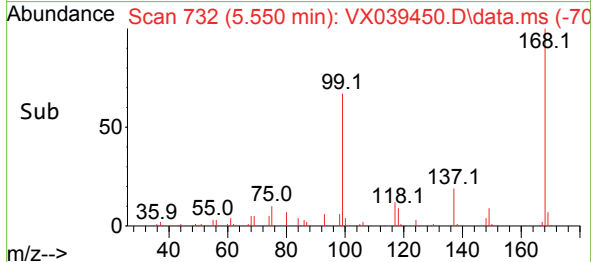
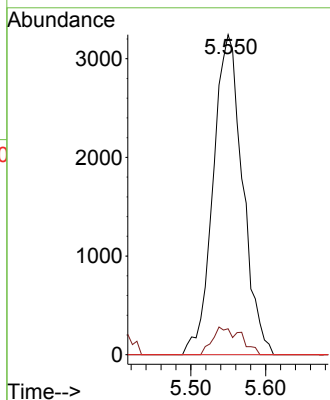
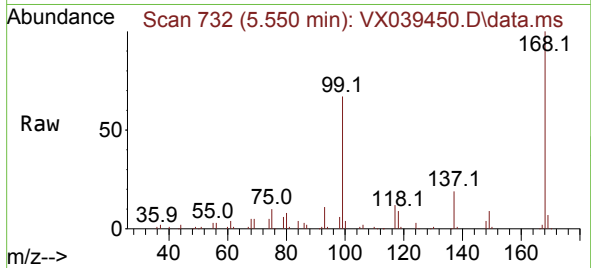




#36  
1,1-Dichloropropene  
Concen: 4.185 ug/l  
RT: 5.550 min Scan# 711  
Delta R.T. -0.140 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

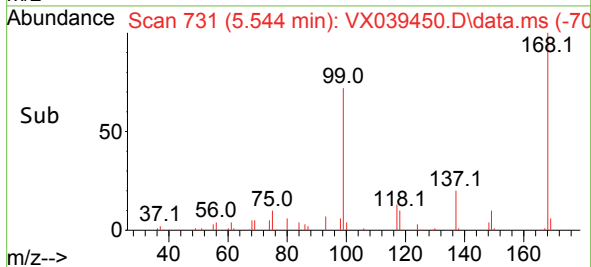
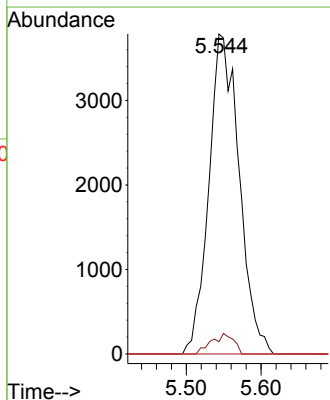
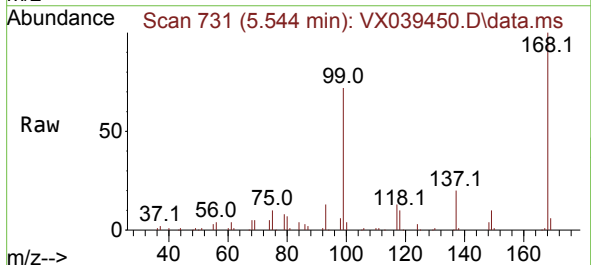
Instrument :  
MSVOA\_X  
ClientSampleId :

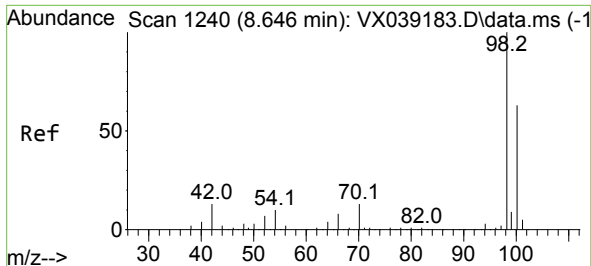
Tgt Ion: 75 Resp: 8891  
Ion Ratio Lower Upper  
75 100  
110 8.3 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 5.265 ug/l  
RT: 5.544 min Scan# 731  
Delta R.T. -0.134 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

Tgt Ion: 117 Resp: 10675  
Ion Ratio Lower Upper  
117 100  
119 3.8 78.2 117.2#  
121 0.0 24.4 36.6#





#50

Toluene-d8

Concen: 50.329 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX039450.D

Acq: 22 Dec 2023 19:07

Instrument :

MSVOA\_X

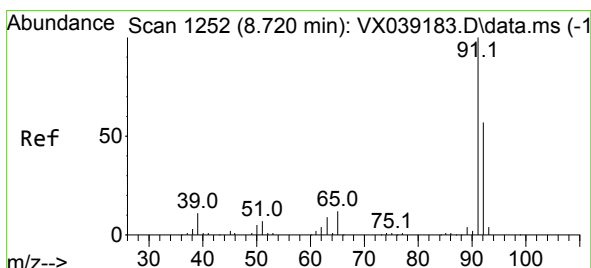
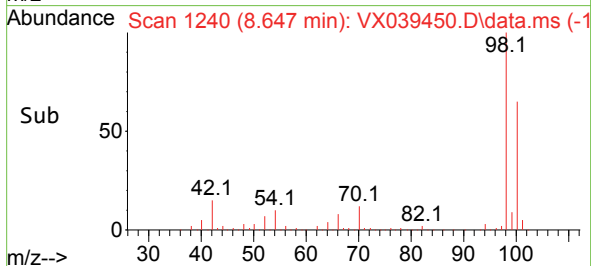
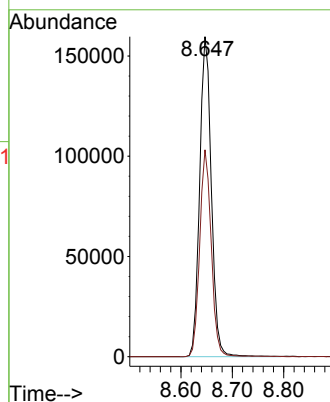
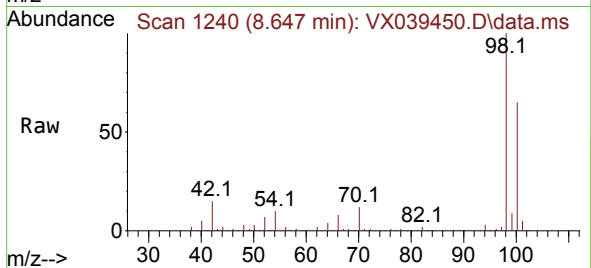
ClientSampleId :

Tgt Ion: 98 Resp: 251558

Ion Ratio Lower Upper

98 100

100 63.8 53.1 79.7



#52

Toluene

Concen: 7.497 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.000 min

Lab File: VX039450.D

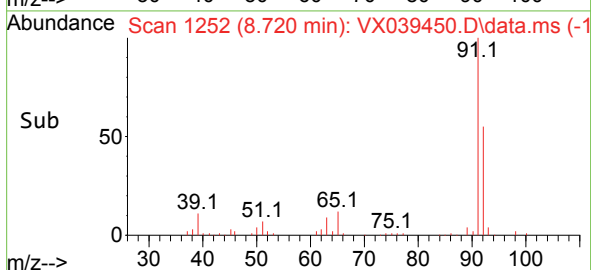
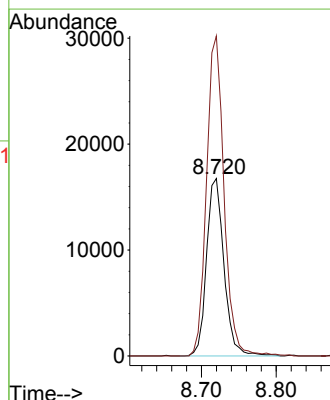
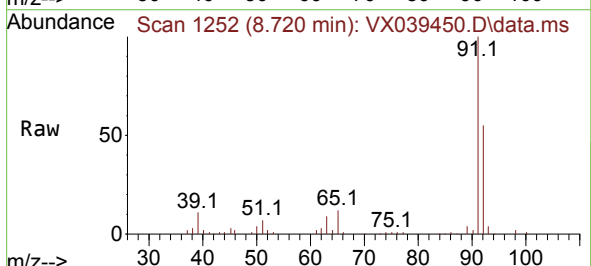
Acq: 22 Dec 2023 19:07

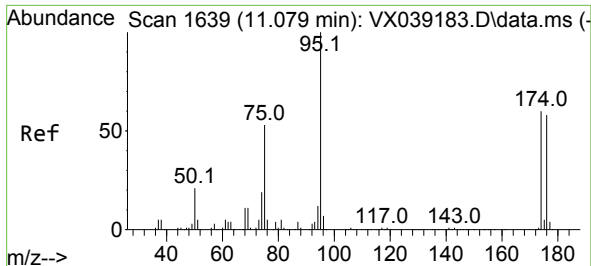
Tgt Ion: 92 Resp: 27194

Ion Ratio Lower Upper

92 100

91 180.9 134.2 201.2

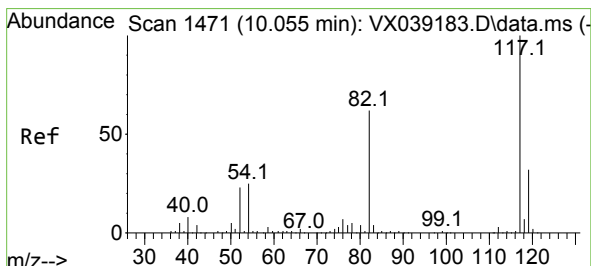
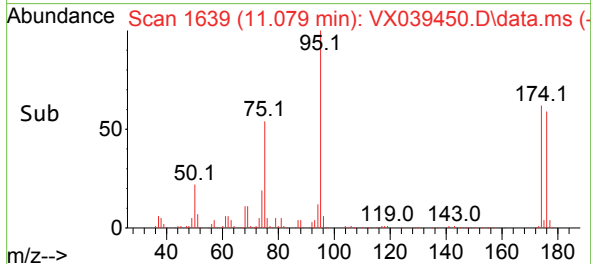
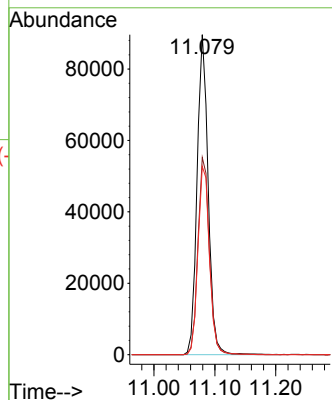
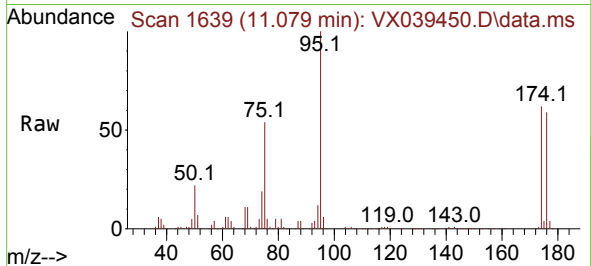




#62  
4-Bromofluorobenzene  
Concen: 54.715 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

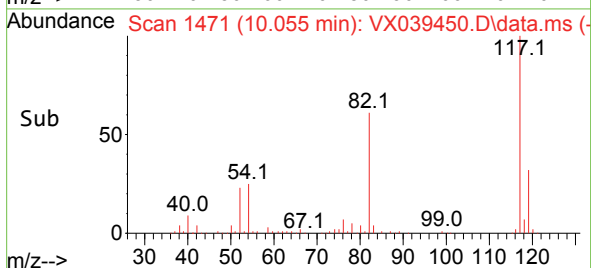
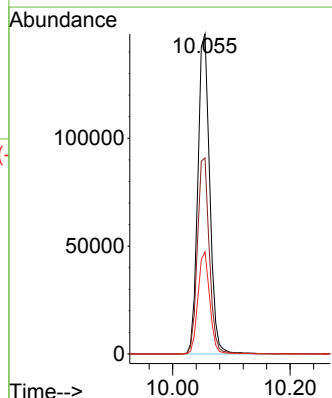
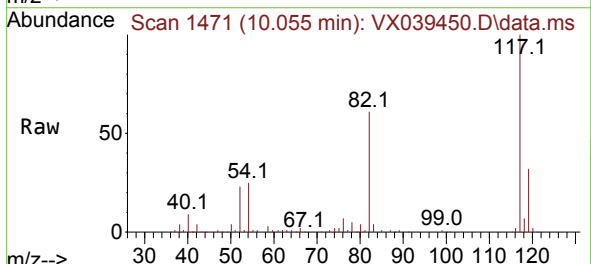
Instrument :  
MSVOA\_X  
ClientSampleId :

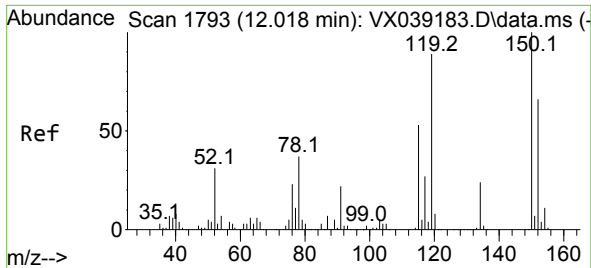
Tgt Ion: 95 Resp: 112837  
Ion Ratio Lower Upper  
95 100  
174 64.0 0.0 135.6  
176 61.4 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

Tgt Ion: 117 Resp: 208334  
Ion Ratio Lower Upper  
117 100  
82 61.3 46.2 69.4  
119 32.0 25.5 38.3

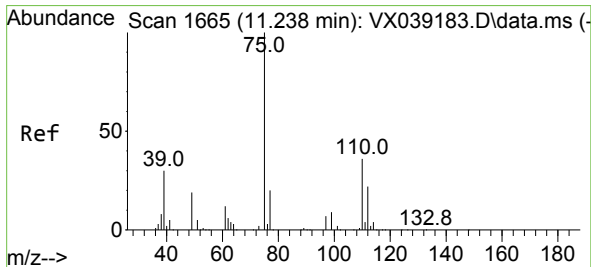
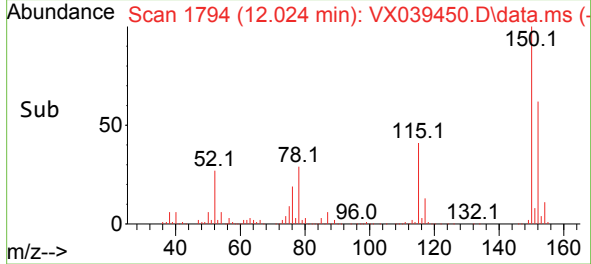
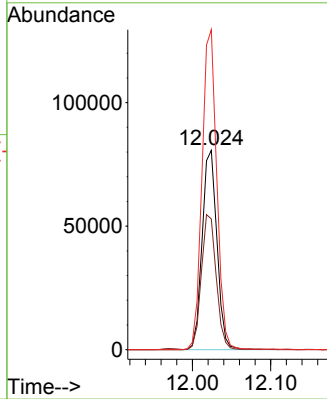
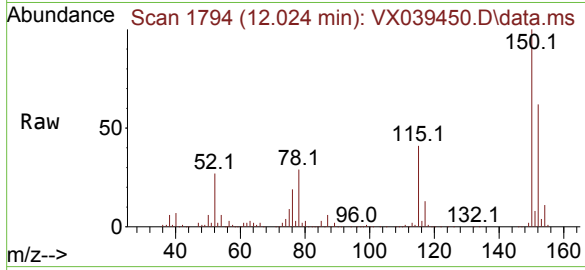




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

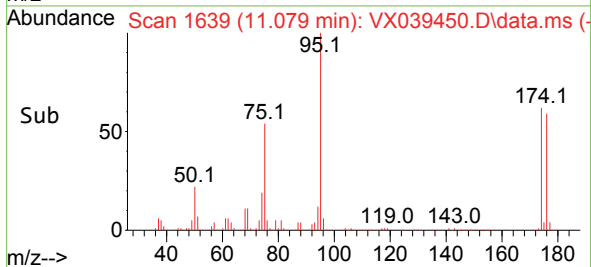
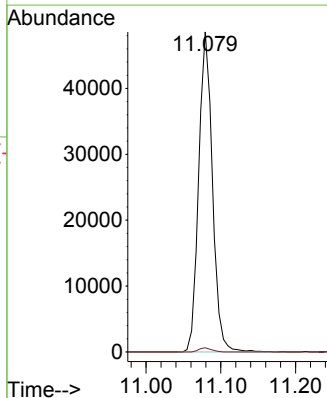
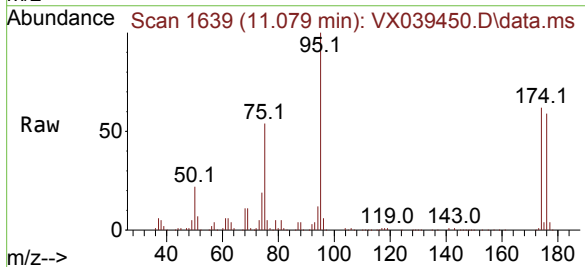
Instrument :  
MSVOA\_X  
ClientSampleId :

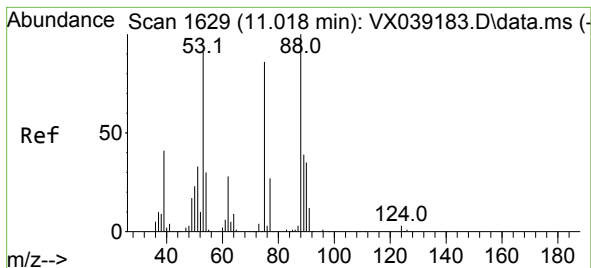
Tgt Ion:152 Resp: 105914  
Ion Ratio Lower Upper  
152 100  
115 67.6 43.3 129.9  
150 159.3 0.0 345.0



#76  
1,2,3-Trichloropropane  
Concen: 22.658 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

Tgt Ion: 75 Resp: 62087  
Ion Ratio Lower Upper  
75 100  
77 1.2 19.1 57.5#

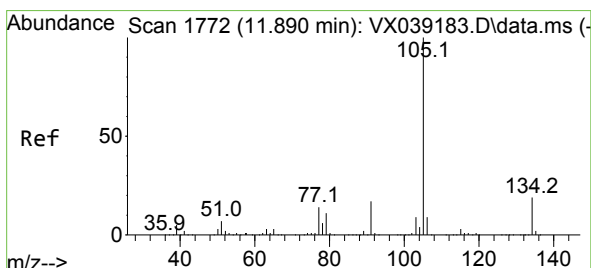
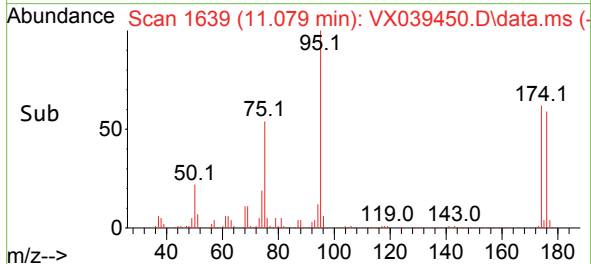
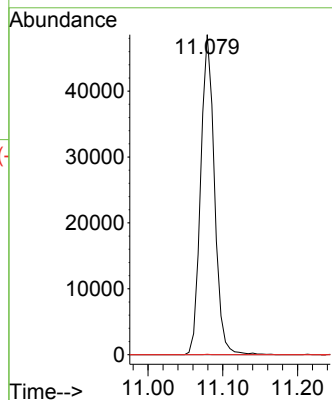
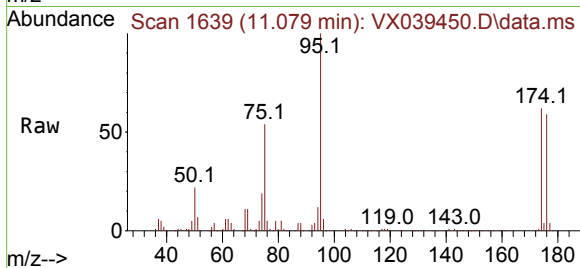




#81  
trans-1,4-Dichloro-2-butene  
Concen: 63.918 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. 0.061 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 62087  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#85  
sec-Butylbenzene  
Concen: 0.211 ug/l  
RT: 11.969 min Scan# 1785  
Delta R.T. 0.079 min  
Lab File: VX039450.D  
Acq: 22 Dec 2023 19:07

Tgt Ion:105 Resp: 1782  
Ion Ratio Lower Upper  
105 100  
134 22.8 9.8 29.4

