

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX020524\  
 Data File : VX040122.D  
 Acq On : 05 Feb 2024 17:35  
 Operator : JC/MD  
 Sample : P1337-06  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 23 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-2

Quant Time: Feb 06 03:04:07 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X013024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Feb 01 05:44:39 2024  
 Response via : Initial Calibration

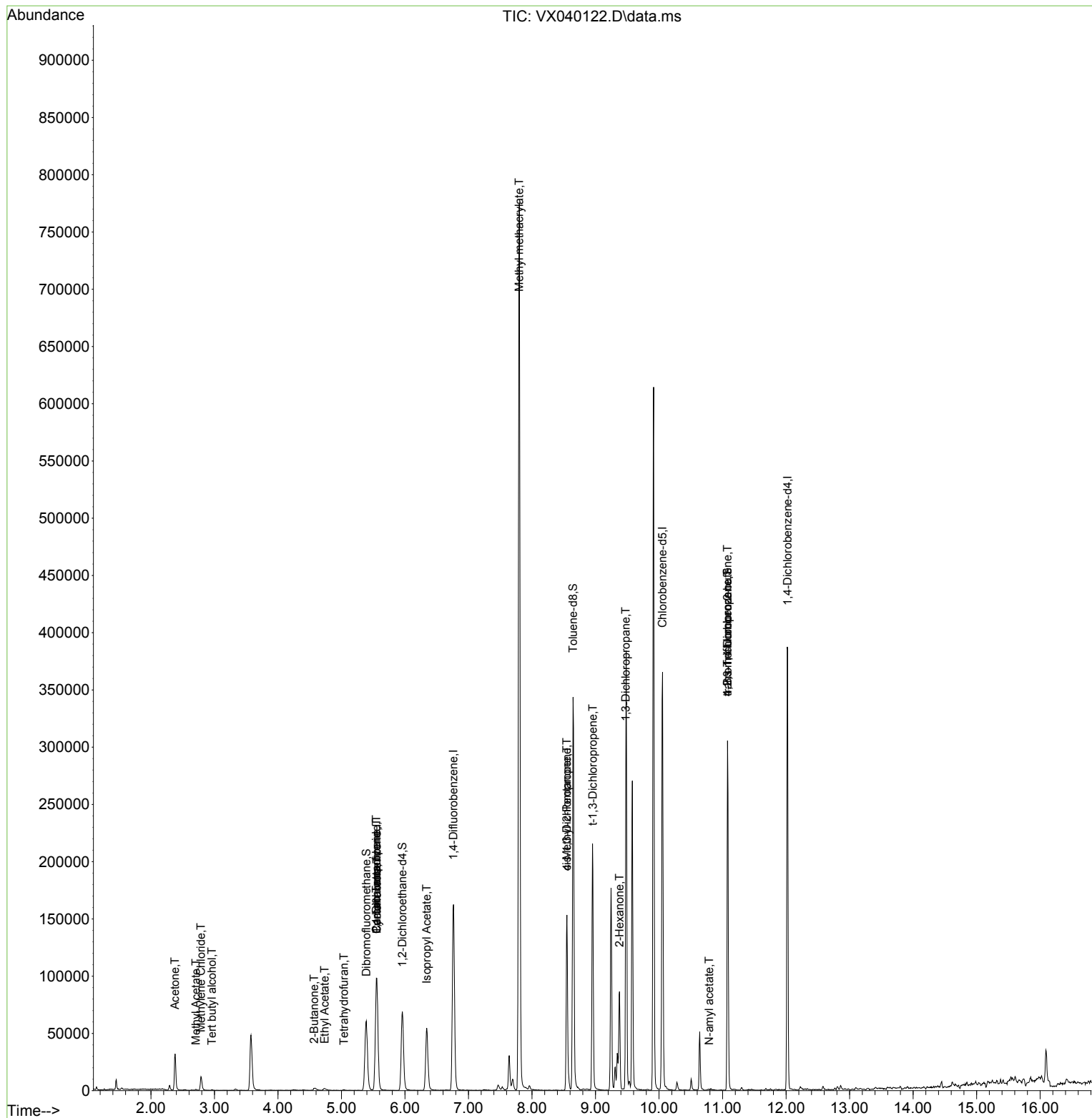
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 91074    | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 162850   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 160867   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 74475    | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 65704    | 44.827    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 89.660%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 51631    | 46.574    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 93.140%  |
| 50) Toluene-d8                | 8.647  | 98    | 202807   | 48.919    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 97.840%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 81230    | 50.885    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 101.780% |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 11) Tert butyl alcohol        | 2.959  | 59    | 472      | 1.775     | ug/l # | 78       |
| 16) Acetone                   | 2.380  | 43    | 32827    | 47.800    | ug/l   | 95       |
| 18) Methyl Acetate            | 2.709  | 43    | 990      | 0.609     | ug/l   | 92       |
| 20) Methylene Chloride        | 2.788  | 84    | 5763     | 4.722     | ug/l   | 93       |
| 25) 2-Butanone                | 4.568  | 43    | 1445     | 1.514     | ug/l   | 97       |
| 29) Tetrahydrofuran           | 5.038  | 42    | 349      | 0.575     | ug/l # | 57       |
| 31) Cyclohexane               | 5.556  | 56    | 2118     | 1.154     | ug/l # | 18       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 7852     | 4.897     | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.733  | 43    | 3133     | 1.789     | ug/l # | 90       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 9399     | 6.127     | ug/l # | 15       |
| 43) Isopropyl Acetate         | 6.342  | 43    | 74296    | 26.907    | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.799  | 41    | 67264    | 49.452    | ug/l # | 48       |
| 51) 4-Methyl-2-Pentanone      | 8.549  | 43    | 54853    | 29.101    | ug/l # | 52       |
| 53) t-1,3-Dichloropropene     | 8.958  | 75    | 500      | 0.292     | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549  | 75    | 22680    | 12.434    | ug/l # | 62       |
| 57) 1,3-Dichloropropane       | 9.476  | 76    | 3049     | 1.536     | ug/l # | 42       |
| 59) 2-Hexanone                | 9.378  | 43    | 64843    | 43.147    | ug/l # | 26       |
| 74) N-amyl acetate            | 10.787 | 43    | 930      | 0.582     | ug/l # | 47       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 43752    | 27.587    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 43752    | 80.250    | ug/l # | 5        |
| 90) Hexachloroethane          | 12.524 | 117   | 19       | Below Cal | #      | 17       |

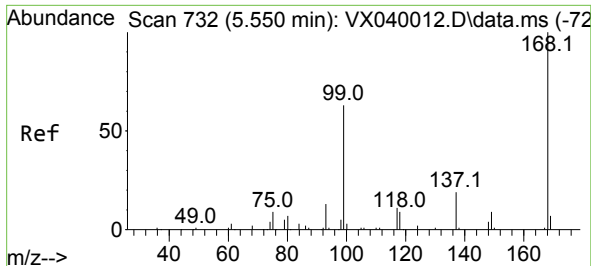
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX020524\  
Data File : VX040122.D  
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Instrument :  
MSVOA\_X  
ClientSampleId :  
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X013024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Feb 01 05:44:39 2024  
Response via : Initial Calibration

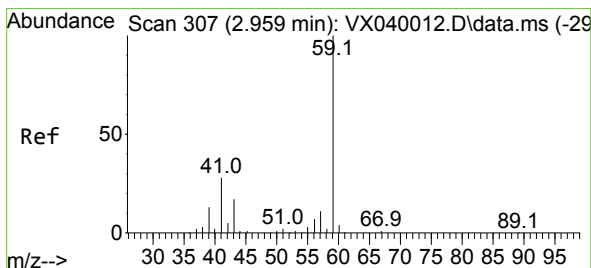
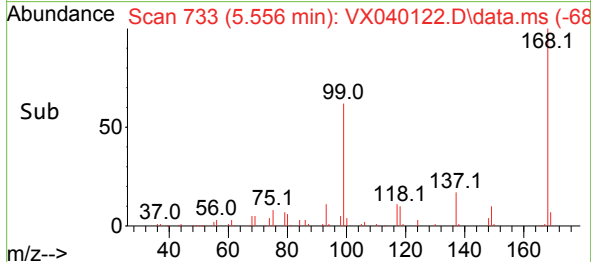
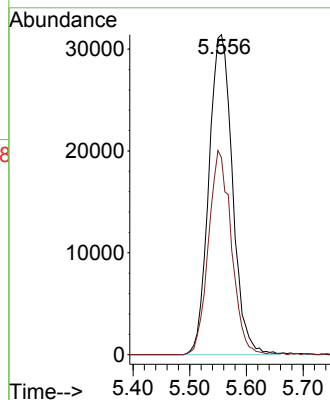
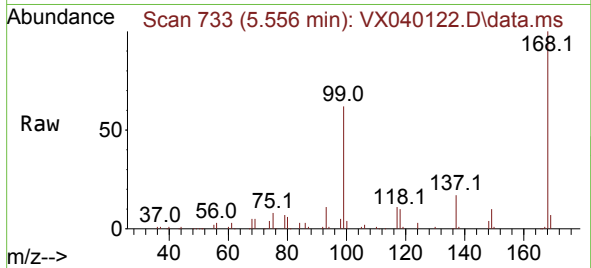




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

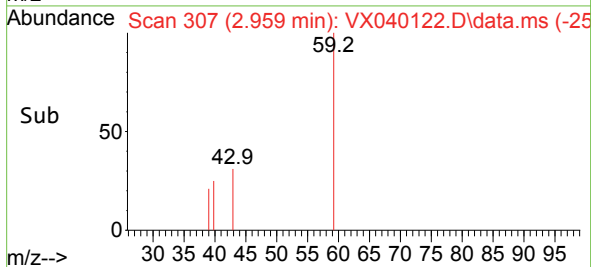
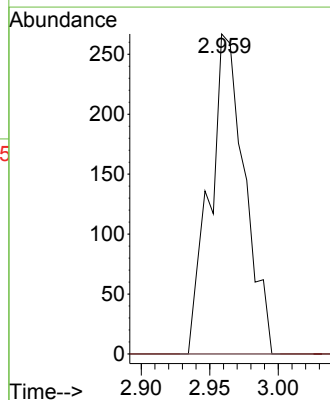
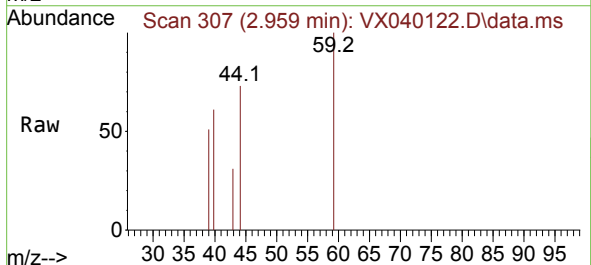
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

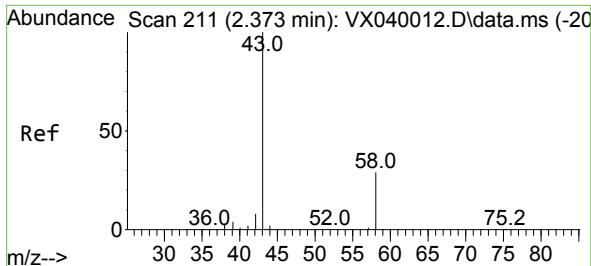
Tgt Ion:168 Resp: 91074  
Ion Ratio Lower Upper  
168 100  
99 61.6 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 1.775 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. -0.000 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

Tgt Ion: 59 Resp: 472  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#

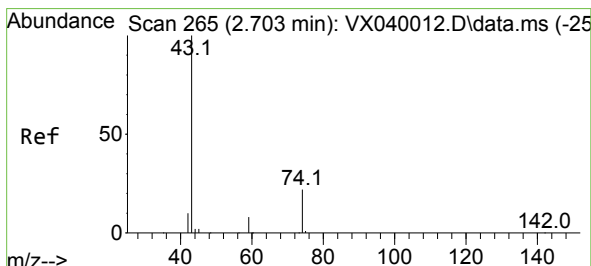
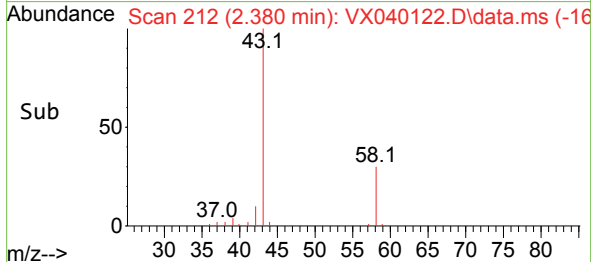
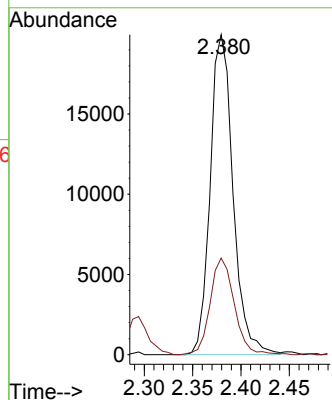
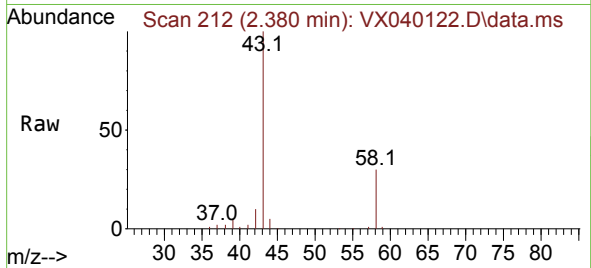




#16  
Acetone  
Concen: 47.800 ug/l  
RT: 2.380 min Scan# 211  
Delta R.T. 0.006 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

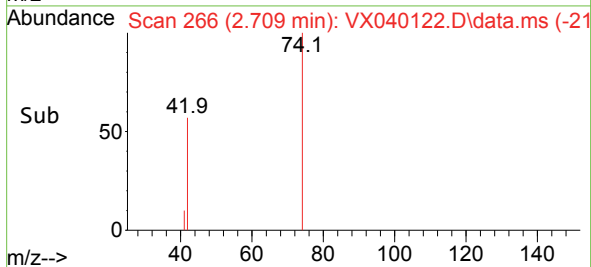
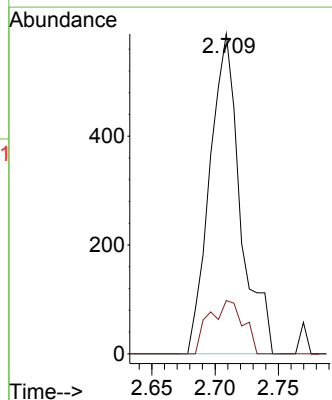
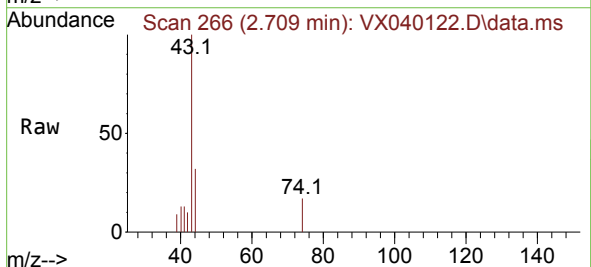
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

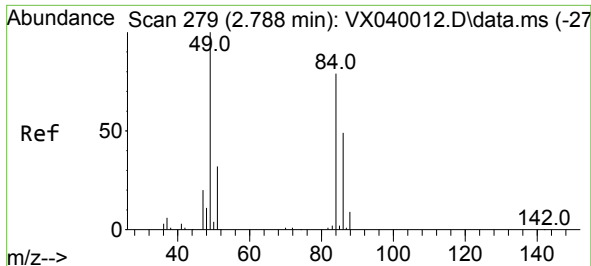
Tgt Ion: 43 Resp: 32827  
Ion Ratio Lower Upper  
43 100  
58 30.2 21.9 32.9



#18  
Methyl Acetate  
Concen: 0.609 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. 0.006 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

Tgt Ion: 43 Resp: 990  
Ion Ratio Lower Upper  
43 100  
74 18.6 17.8 26.8

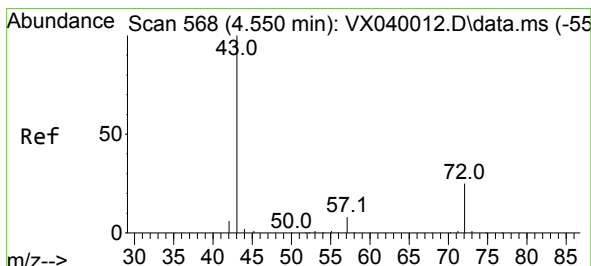
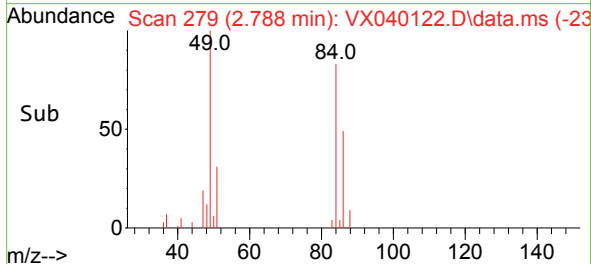
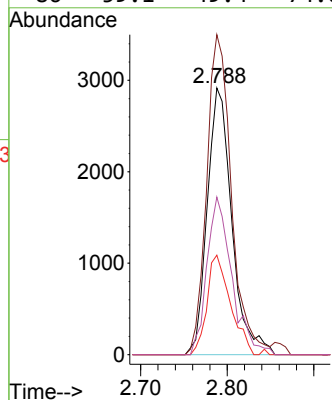
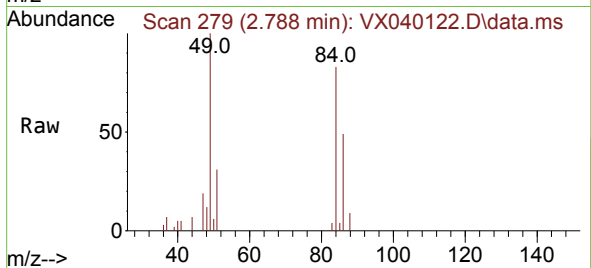




#20  
Methylene Chloride  
Concen: 4.722 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

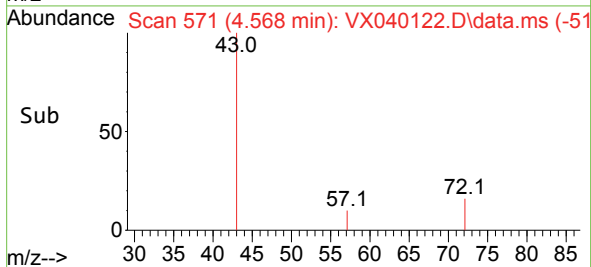
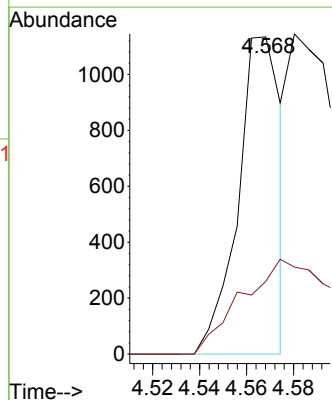
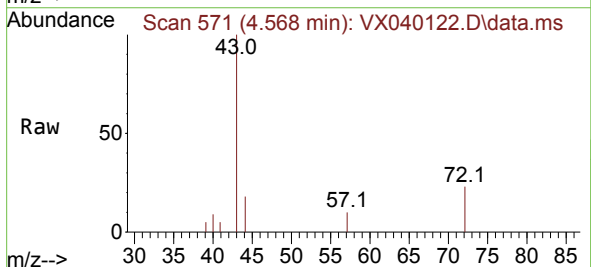
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

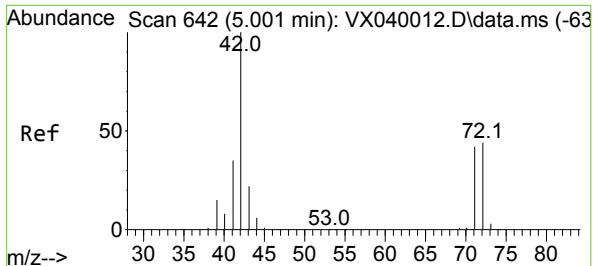
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 5763  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 120.0 | 103.6 | 155.4 |
| 51       | 37.3  | 33.8  | 50.6  |
| 86       | 59.1  | 49.4  | 74.0  |



#25  
2-Butanone  
Concen: 1.514 ug/l  
RT: 4.568 min Scan# 571  
Delta R.T. 0.018 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1445  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 22.9  | 19.4  | 29.2  |





#29

Tetrahydrofuran

Concen: 0.575 ug/l

RT: 5.038 min Scan# 64

Delta R.T. 0.036 min

Lab File: VX040122.D

Acq: 05 Feb 2024 17:35

Instrument :

MSVOA\_X

ClientSampleId :

TP-2

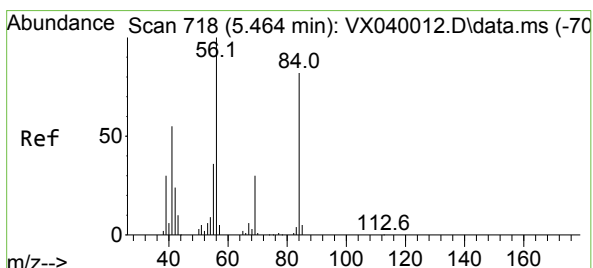
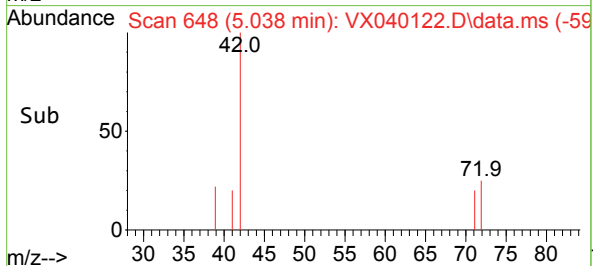
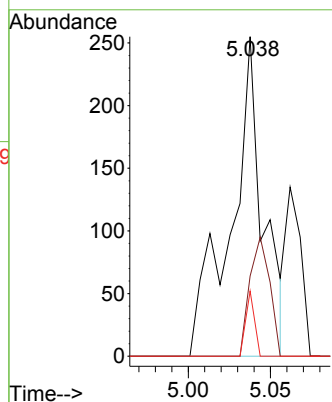
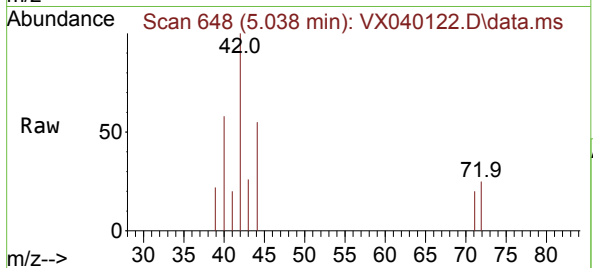
Tgt Ion: 42 Resp: 349

Ion Ratio Lower Upper

42 100

72 22.9 34.2 51.4#

71 5.4 32.2 48.2#



#31

Cyclohexane

Concen: 1.154 ug/l

RT: 5.556 min Scan# 733

Delta R.T. 0.091 min

Lab File: VX040122.D

Acq: 05 Feb 2024 17:35

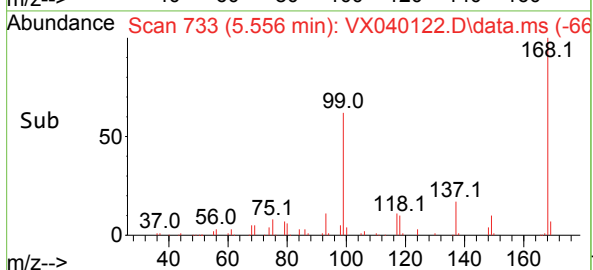
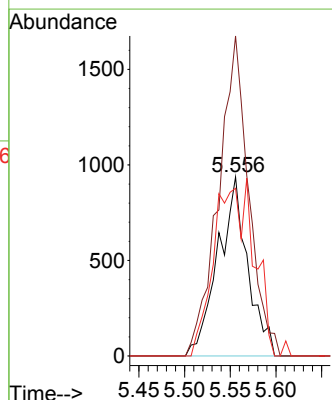
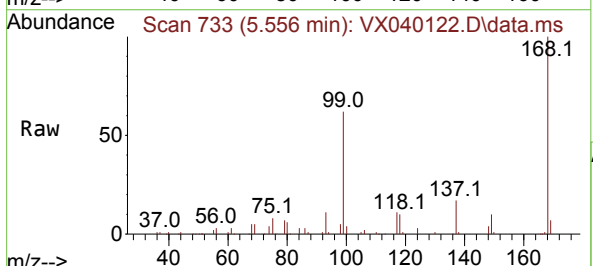
Tgt Ion: 56 Resp: 2118

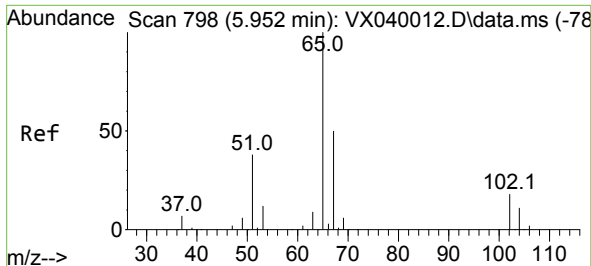
Ion Ratio Lower Upper

56 100

69 178.8 23.4 35.2#

84 93.7 65.9 98.9





#33

1,2-Dichloroethane-d4

Concen: 44.827 ug/l

RT: 5.958 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX040122.D

Acq: 05 Feb 2024 17:35

Instrument :

MSVOA\_X

ClientSampleId :

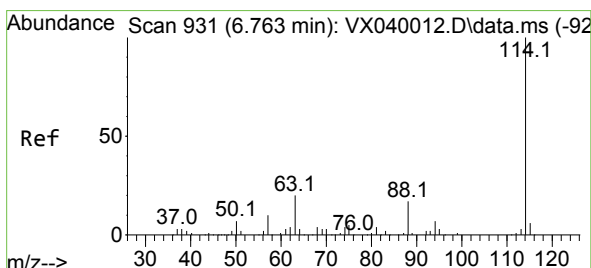
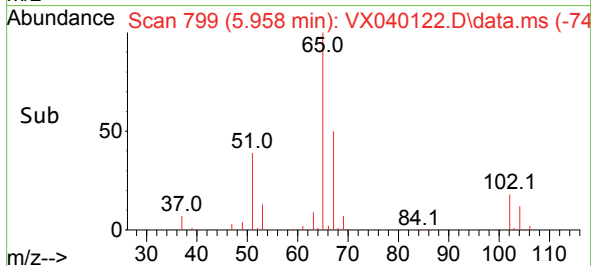
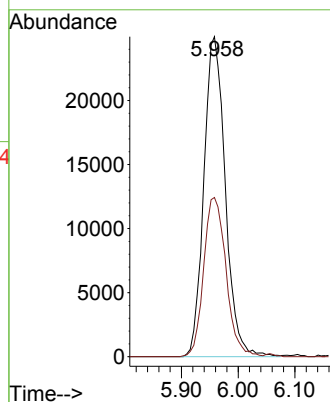
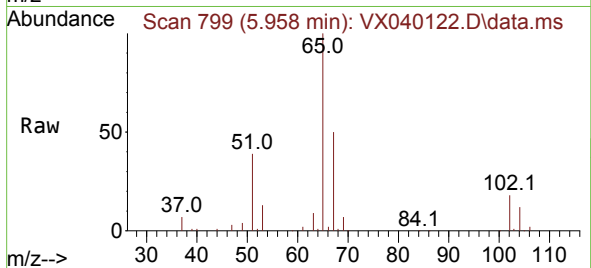
TP-2

Tgt Ion: 65 Resp: 65704

Ion Ratio Lower Upper

65 100

67 51.9 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX040122.D

Acq: 05 Feb 2024 17:35

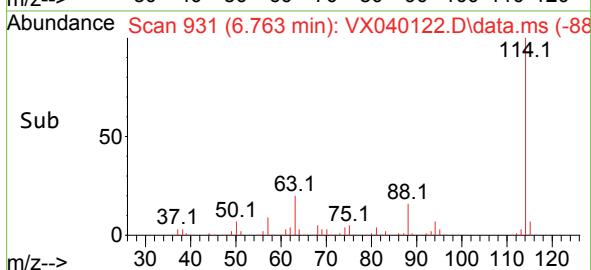
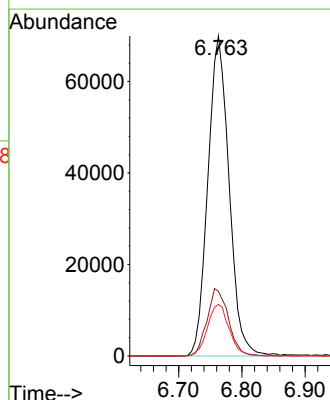
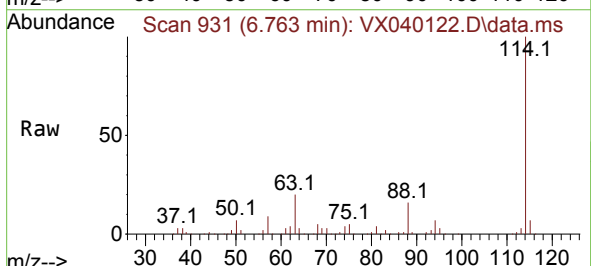
Tgt Ion: 114 Resp: 162850

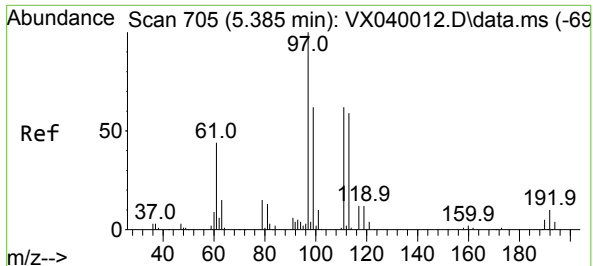
Ion Ratio Lower Upper

114 100

63 20.2 0.0 45.0

88 16.1 0.0 36.6

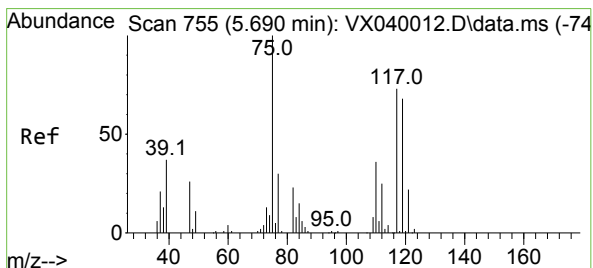
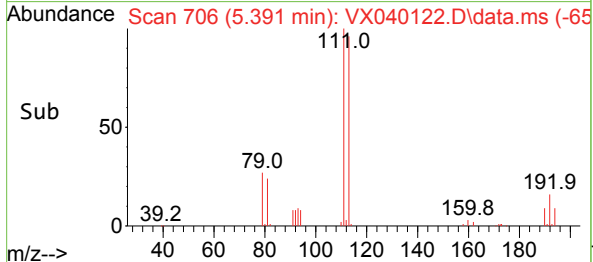
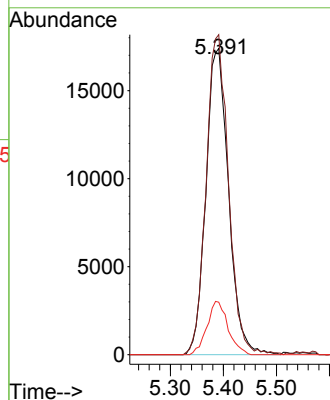
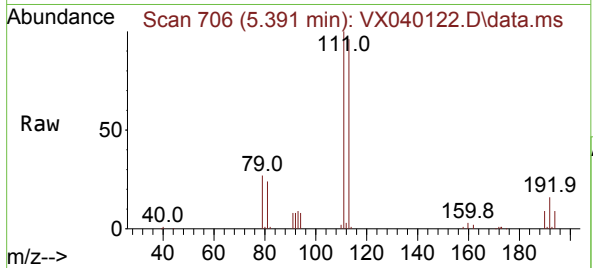




#35  
Dibromofluoromethane  
Concen: 46.574 ug/l  
RT: 5.391 min Scan# 705  
Delta R.T. 0.006 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

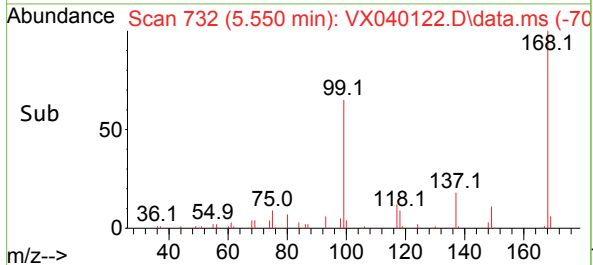
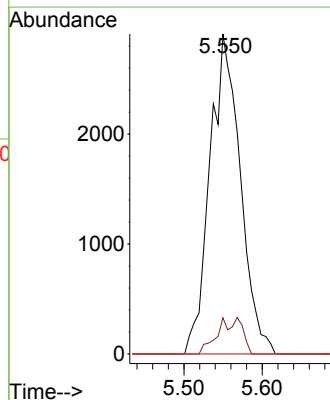
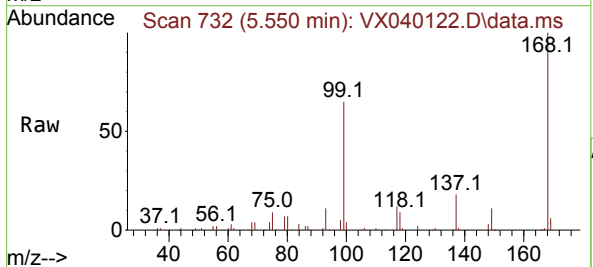
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

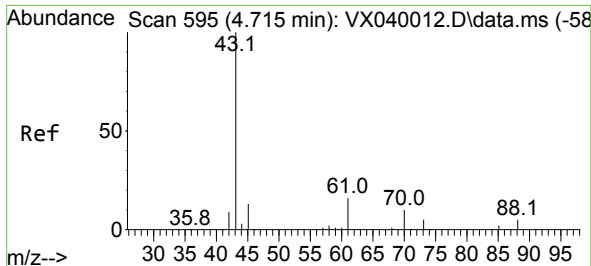
Tgt Ion:113 Resp: 51631  
Ion Ratio Lower Upper  
113 100  
111 103.4 82.9 124.3  
192 16.2 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.897 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

Tgt Ion: 75 Resp: 7852  
Ion Ratio Lower Upper  
75 100  
110 9.2 17.0 50.9#  
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.789 ug/l

RT: 4.733 min Scan# 595

Delta R.T. 0.018 min

Lab File: VX040122.D

Acq: 05 Feb 2024 17:35

Instrument :

MSVOA\_X

ClientSampleId :

TP-2

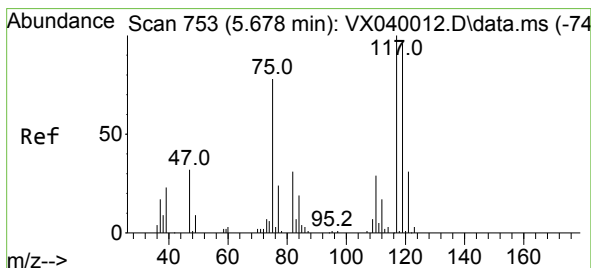
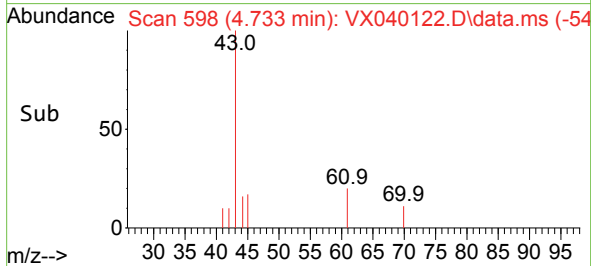
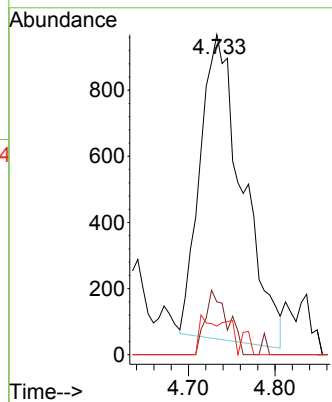
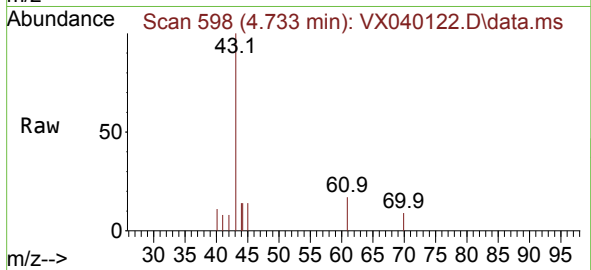
Tgt Ion: 43 Resp: 3133

Ion Ratio Lower Upper

43 100

61 11.2 10.6 16.0

70 4.6 8.3 12.5#



#38

Carbon Tetrachloride

Concen: 6.127 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.128 min

Lab File: VX040122.D

Acq: 05 Feb 2024 17:35

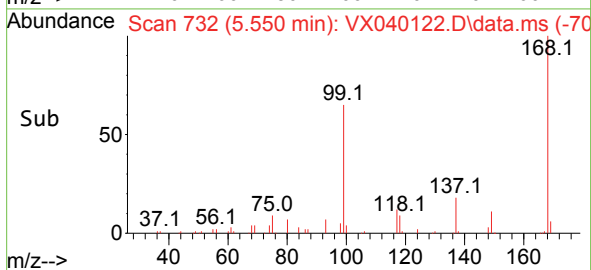
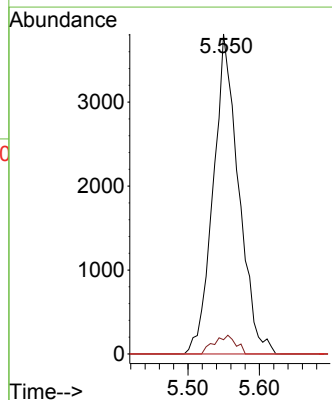
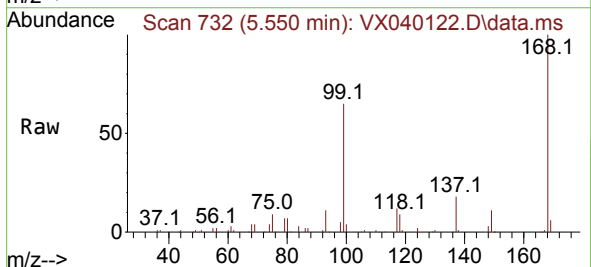
Tgt Ion: 117 Resp: 9399

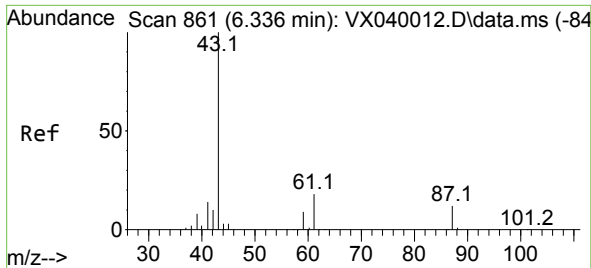
Ion Ratio Lower Upper

117 100

119 4.5 78.2 117.2#

121 0.0 24.4 36.6#

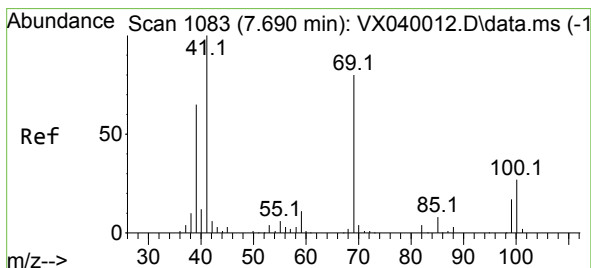
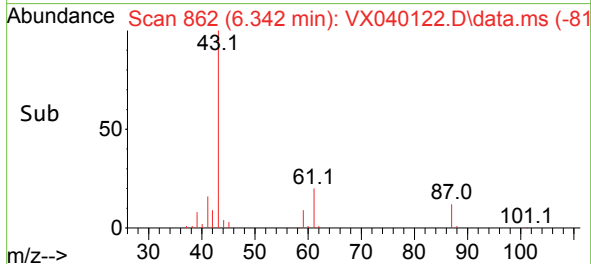
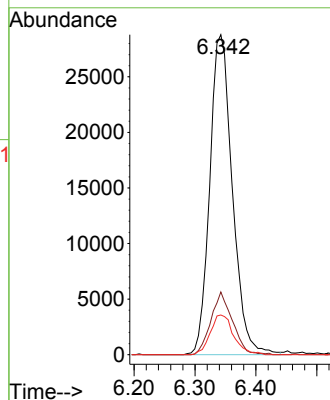
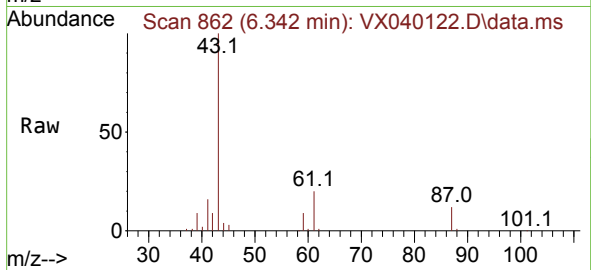




#43  
Isopropyl Acetate  
Concen: 26.907 ug/l  
RT: 6.342 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

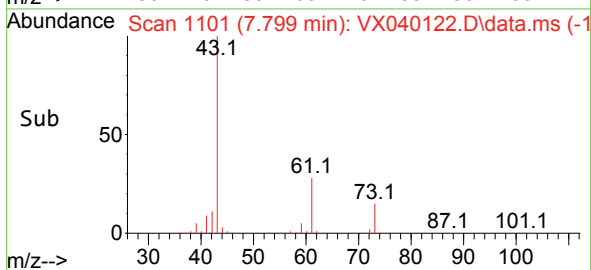
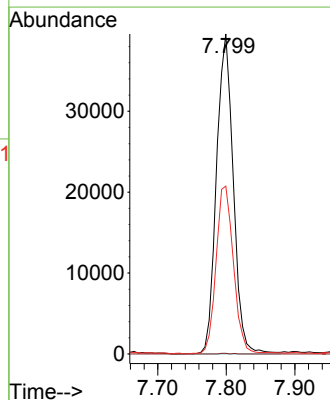
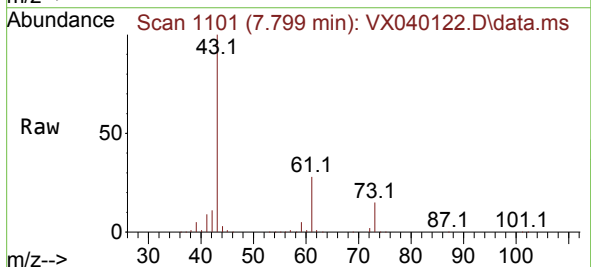
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

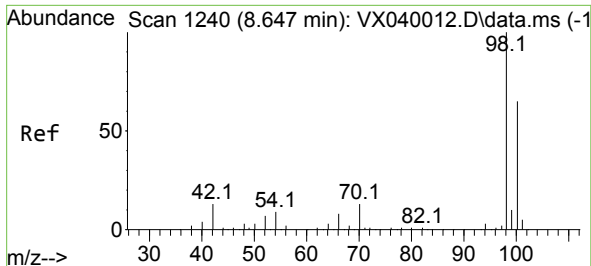
Tgt Ion: 43 Resp: 74296  
Ion Ratio Lower Upper  
43 100  
61 18.7 15.2 22.8  
87 12.8 9.8 14.6



#48  
Methyl methacrylate  
Concen: 49.452 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.110 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

Tgt Ion: 41 Resp: 67264  
Ion Ratio Lower Upper  
41 100  
69 0.1 59.2 88.8#  
39 54.3 47.7 71.5

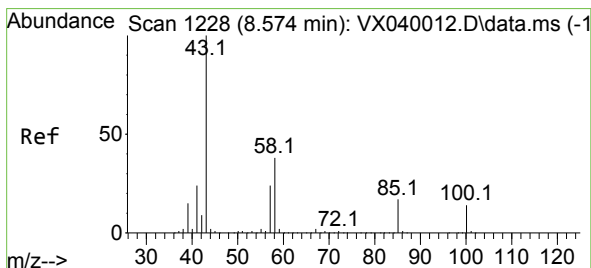
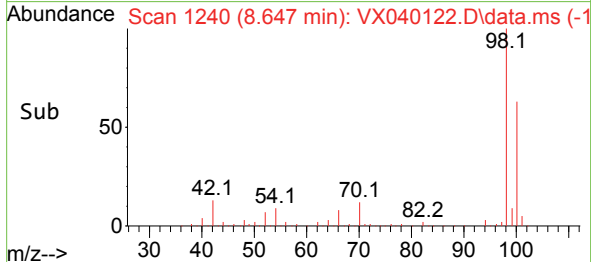
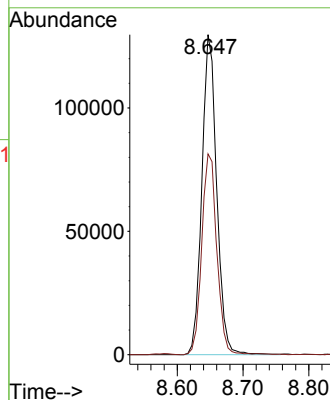
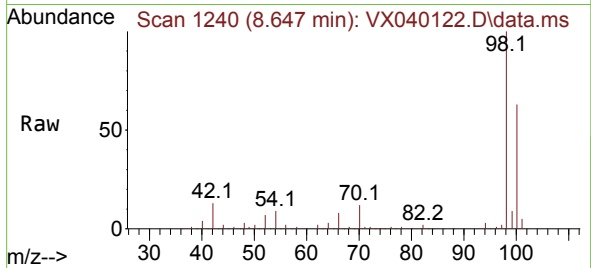




#50  
Toluene-d8  
Concen: 48.919 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

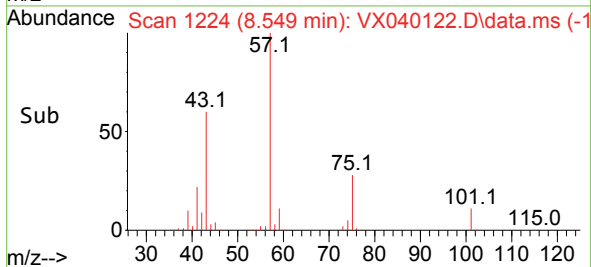
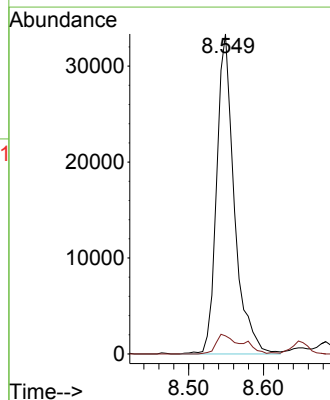
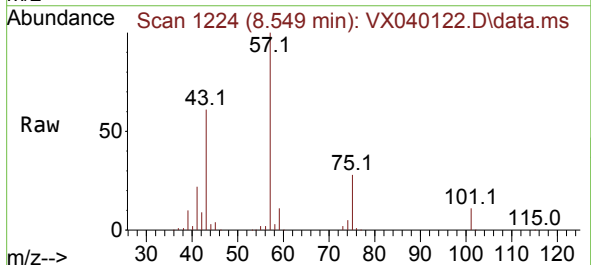
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

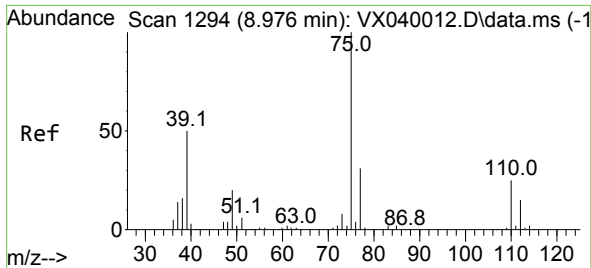
Tgt Ion: 98 Resp: 202807  
Ion Ratio Lower Upper  
98 100  
100 63.8 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 29.101 ug/l  
RT: 8.549 min Scan# 1224  
Delta R.T. -0.024 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

Tgt Ion: 43 Resp: 54853  
Ion Ratio Lower Upper  
43 100  
58 9.0 30.4 45.6#

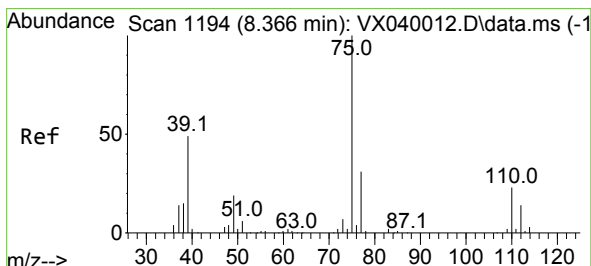
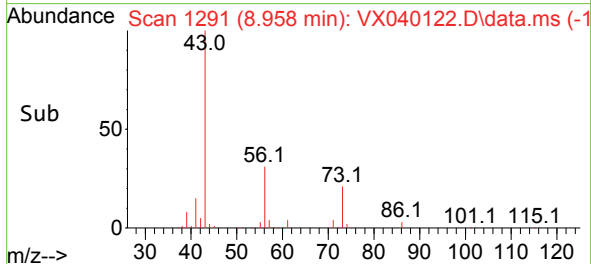
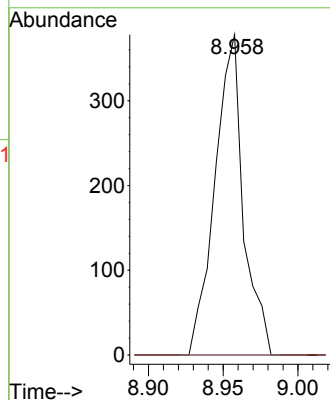
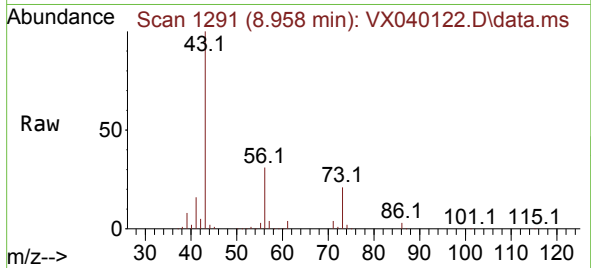




#53  
 t-1,3-Dichloropropene  
 Concen: 0.292 ug/l  
 RT: 8.958 min Scan# 1124  
 Delta R.T. -0.018 min  
 Lab File: VX040122.D  
 Acq: 05 Feb 2024 17:35

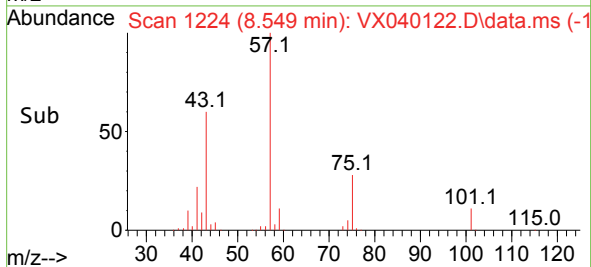
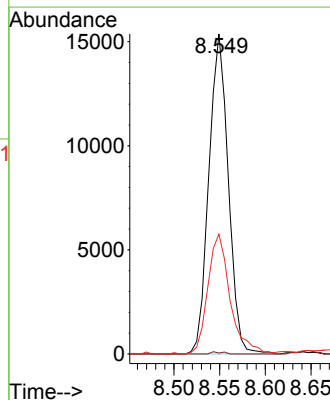
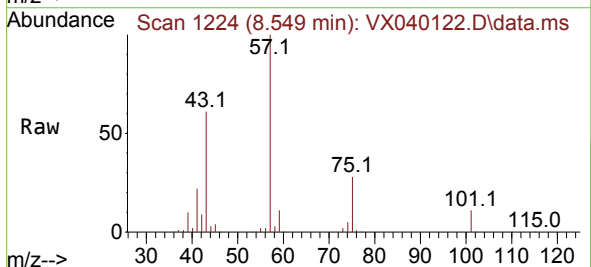
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TP-2

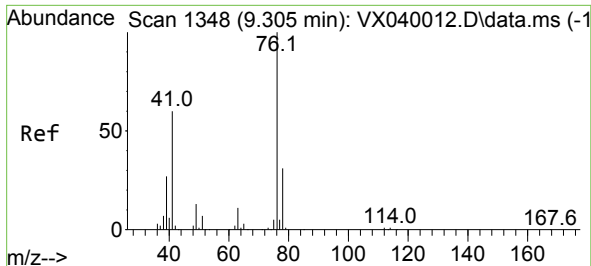
Tgt Ion: 75 Resp: 500  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.7 38.5#



#54  
 cis-1,3-Dichloropropene  
 Concen: 12.434 ug/l  
 RT: 8.549 min Scan# 1224  
 Delta R.T. 0.183 min  
 Lab File: VX040122.D  
 Acq: 05 Feb 2024 17:35

Tgt Ion: 75 Resp: 22680  
 Ion Ratio Lower Upper  
 75 100  
 77 0.3 25.3 37.9#  
 39 37.5 46.7 70.1#





#57

1,3-Dichloropropane

Concen: 1.536 ug/l

RT: 9.476 min Scan# 1376

Delta R.T. 0.171 min

Lab File: VX040122.D

Acq: 05 Feb 2024 17:35

Instrument :

MSVOA\_X

ClientSampleId :

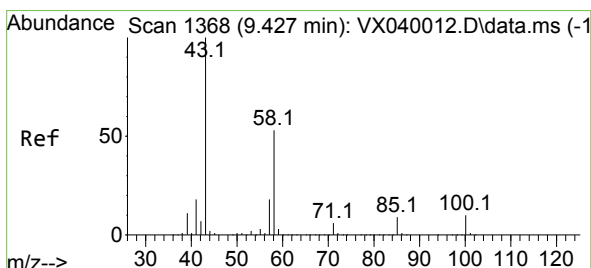
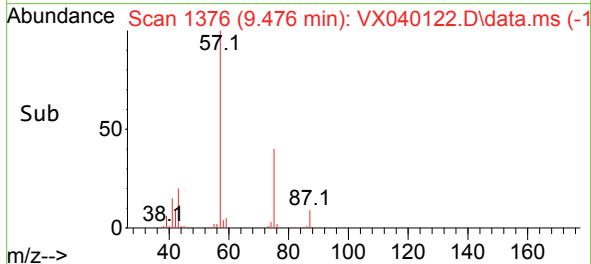
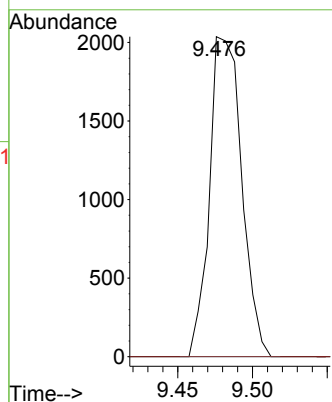
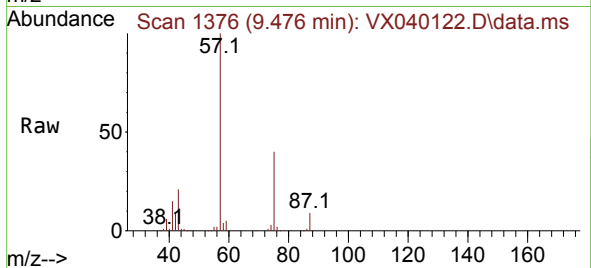
TP-2

Tgt Ion: 76 Resp: 3049

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 43.147 ug/l

RT: 9.378 min Scan# 1360

Delta R.T. -0.049 min

Lab File: VX040122.D

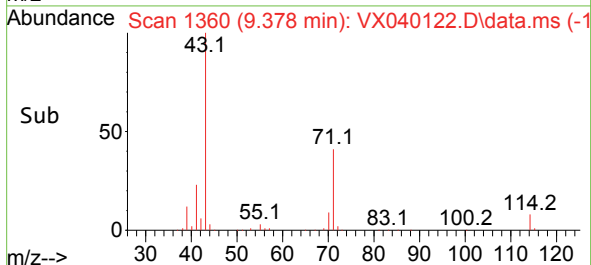
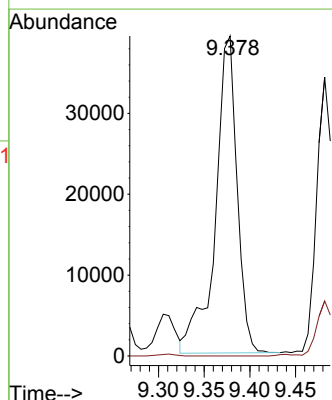
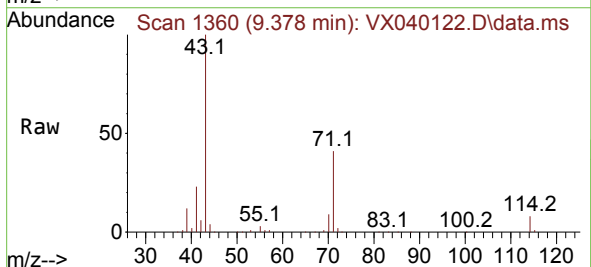
Acq: 05 Feb 2024 17:35

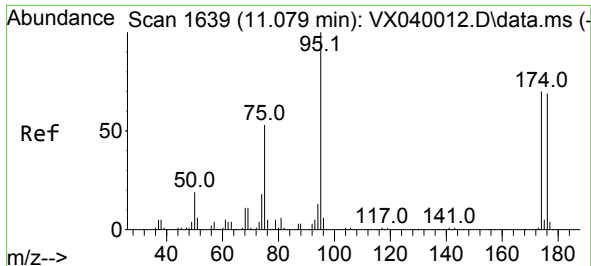
Tgt Ion: 43 Resp: 64843

Ion Ratio Lower Upper

43 100

58 0.0 26.2 78.5#

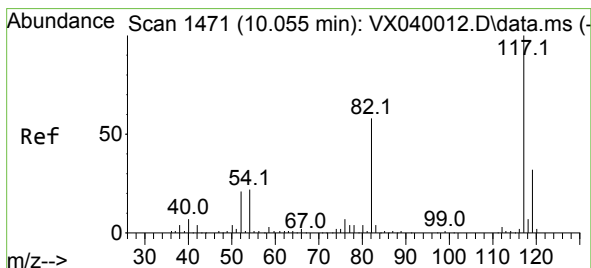
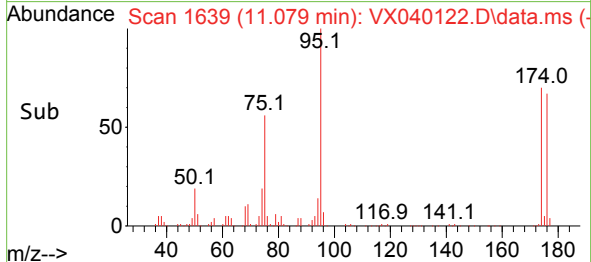
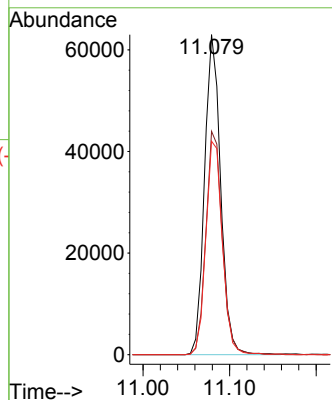
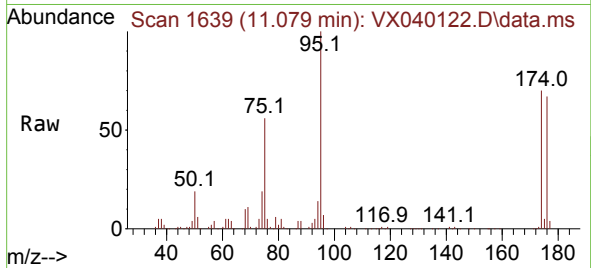




#62  
4-Bromofluorobenzene  
Concen: 50.885 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

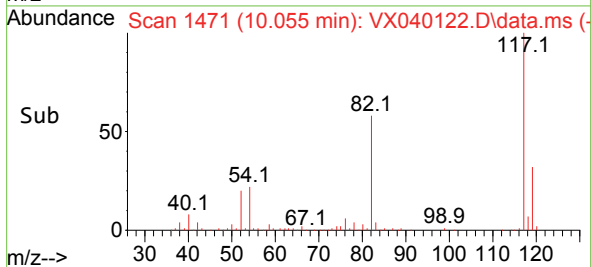
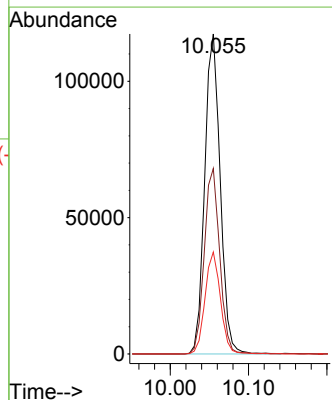
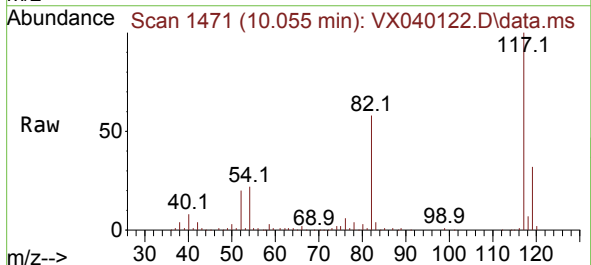
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

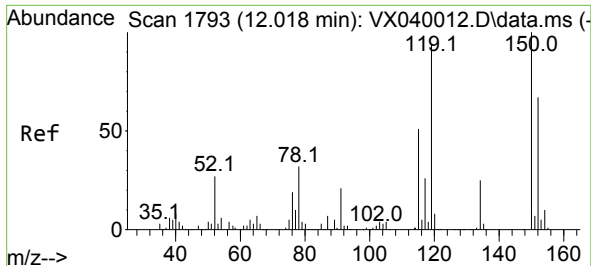
Tgt Ion: 95 Resp: 81230  
Ion Ratio Lower Upper  
95 100  
174 71.2 0.0 135.6  
176 68.6 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

Tgt Ion: 117 Resp: 160867  
Ion Ratio Lower Upper  
117 100  
82 58.0 46.2 69.4  
119 31.9 25.5 38.3

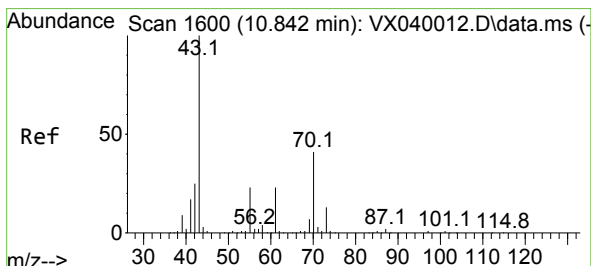
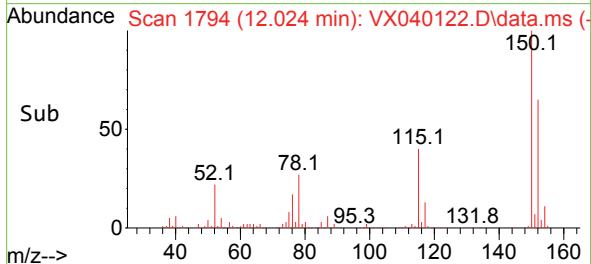
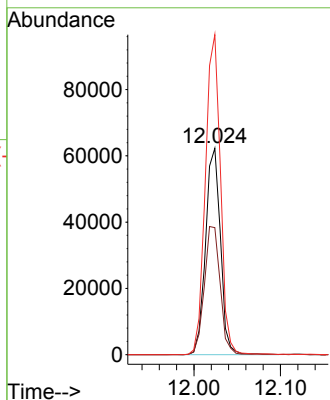
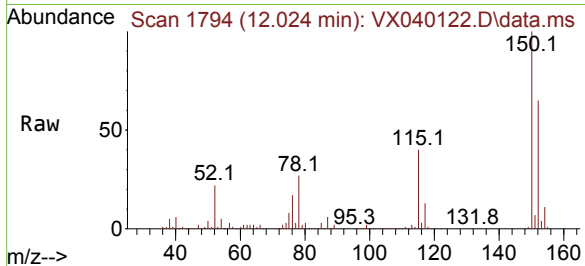




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

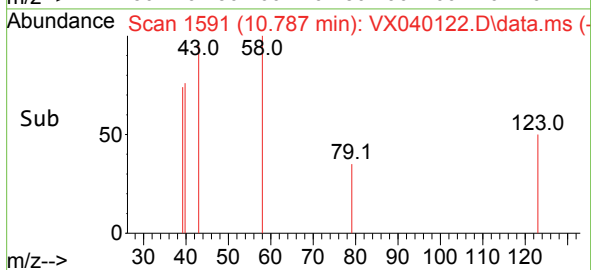
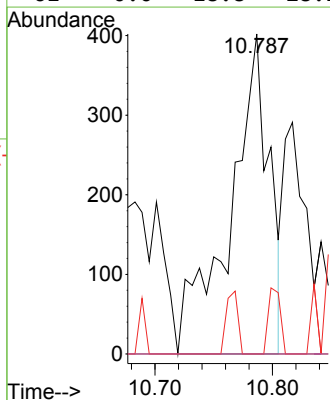
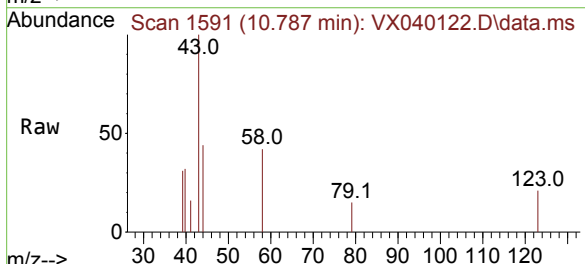
Instrument :  
MSVOA\_X  
ClientSampleId :  
TP-2

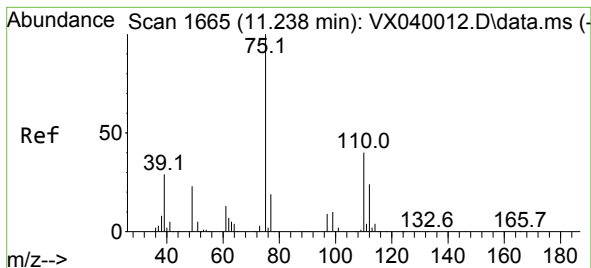
Tgt Ion:152 Resp: 74475  
Ion Ratio Lower Upper  
152 100  
115 66.2 43.3 129.9  
150 156.3 0.0 345.0



#74  
N-ethyl acetate  
Concen: 0.582 ug/l  
RT: 10.787 min Scan# 1591  
Delta R.T. -0.055 min  
Lab File: VX040122.D  
Acq: 05 Feb 2024 17:35

Tgt Ion: 43 Resp: 930  
Ion Ratio Lower Upper  
43 100  
70 0.0 32.9 49.3#  
55 6.3 19.3 28.9#  
61 0.0 18.8 28.2#





#76

1,2,3-Trichloropropane

Concen: 27.587 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX040122.D

Acq: 05 Feb 2024 17:35

Instrument :

MSVOA\_X

ClientSampleId :

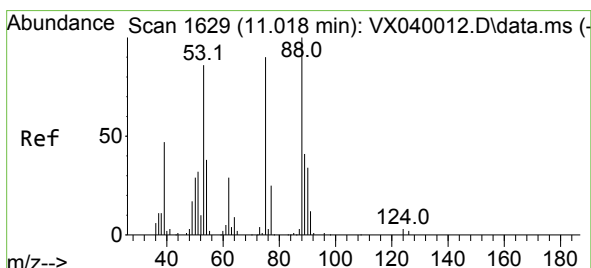
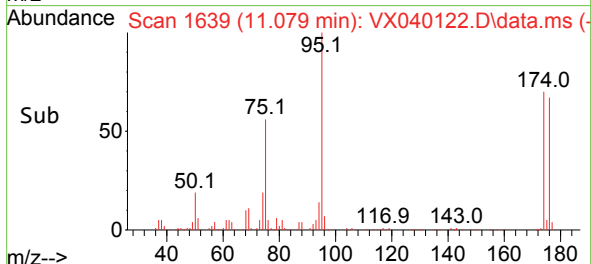
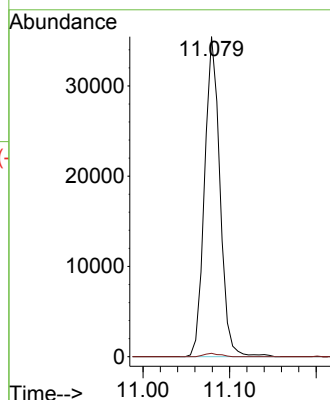
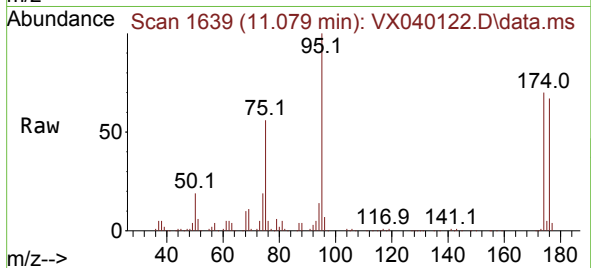
TP-2

Tgt Ion: 75 Resp: 43752

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 80.250 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX040122.D

Acq: 05 Feb 2024 17:35

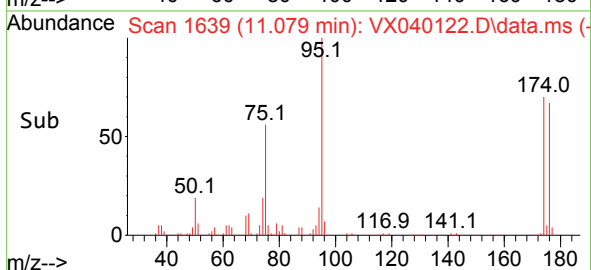
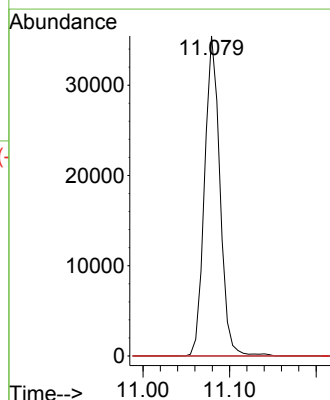
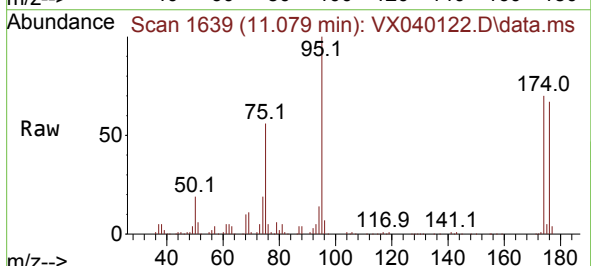
Tgt Ion: 75 Resp: 43752

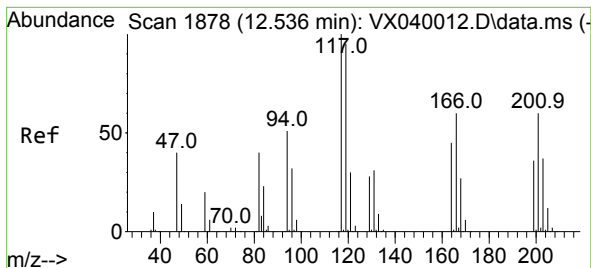
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#





#90

Hexachloroethane

Concen: Below Cal

RT: 12.524 min Scan# 11

Delta R.T. -0.012 min

Lab File: VX040122.D

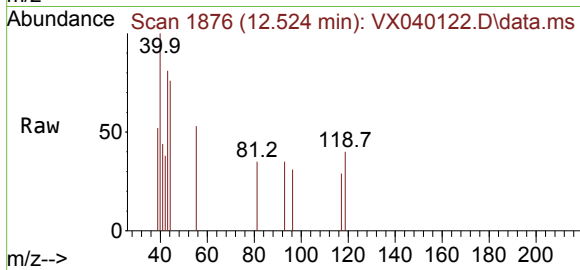
Acq: 05 Feb 2024 17:35

Instrument :

MSVOA\_X

ClientSampleId :

TP-2



Tgt Ion:117 Resp: 19

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 117 | 100   |       |       |
| 201 | 0.0   | 32.9  | 98.6# |

