

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX011924\  
 Data File : VX039866.D  
 Acq On : 20 Jan 2024 02:10  
 Operator : JC/MD  
 Sample : PB158526ZHE#09  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 49 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB158526ZHE#09

Quant Time: Jan 20 03:57:33 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011024W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 11 03:51:26 2024  
 Response via : Initial Calibration

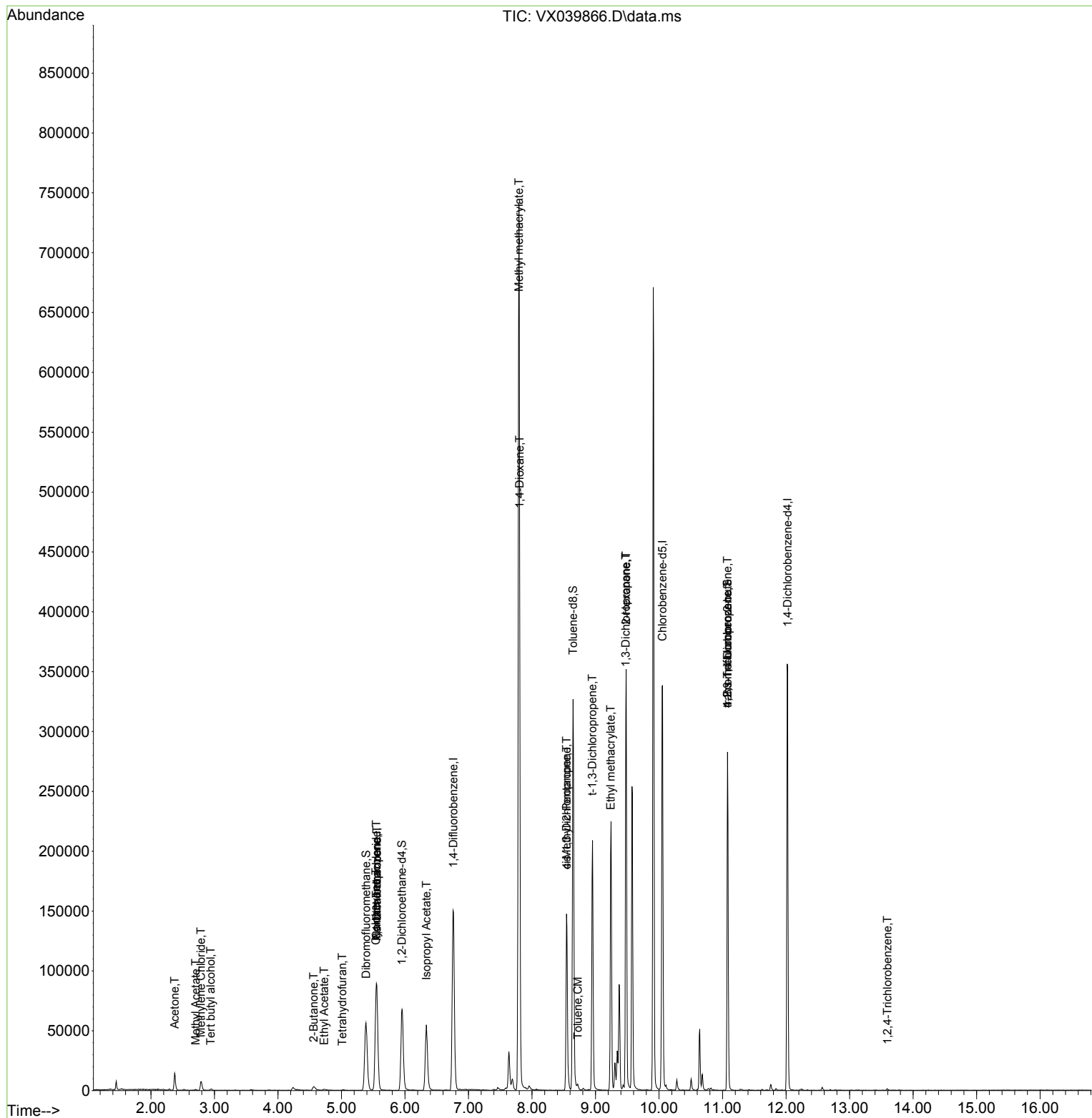
| Compound                      | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|---------|--------|----------|
| -----                         |                |      |            |         |        |          |
| Internal Standards            |                |      |            |         |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 80087      | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 150314     | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 147255     | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 70058      | 50.000  | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 64287      | 47.919  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 95.840% |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 48636      | 48.039  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 96.080% |        |          |
| 50) Toluene-d8                | 8.646          | 98   | 187515     | 49.108  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 98.220% |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 72974      | 48.871  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 97.740% |        |          |
| Target Compounds              |                |      |            |         |        |          |
|                               |                |      |            |         | Qvalue |          |
| 11) Tert butyl alcohol        | 2.940          | 59   | 1160       | 3.322   | ug/l # | 78       |
| 16) Acetone                   | 2.373          | 43   | 14159      | 18.766  | ug/l # | 88       |
| 18) Methyl Acetate            | 2.702          | 43   | 913        | 0.578   | ug/l # | 81       |
| 20) Methylene Chloride        | 2.788          | 84   | 3563       | 3.122   | ug/l   | 97       |
| 25) 2-Butanone                | 4.562          | 43   | 6313       | 5.822   | ug/l   | 94       |
| 29) Tetrahydrofuran           | 5.013          | 42   | 412        | 0.590   | ug/l # | 46       |
| 31) Cyclohexane               | 5.543          | 56   | 2100       | 1.186   | ug/l # | 44       |
| 36) 1,1-Dichloropropene       | 5.556          | 75   | 7588       | 4.815   | ug/l # | 50       |
| 37) Ethyl Acetate             | 4.726          | 43   | 1952       | 0.928   | ug/l # | 75       |
| 38) Carbon Tetrachloride      | 5.549          | 117  | 9104       | 6.308   | ug/l # | 15       |
| 43) Isopropyl Acetate         | 6.336          | 43   | 72695      | 23.571  | ug/l   | 99       |
| 48) Methyl methacrylate       | 7.793          | 41   | 65966      | 43.515  | ug/l # | 49       |
| 49) 1,4-Dioxane               | 7.805          | 88   | 20         | 0.682   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.543          | 43   | 53653      | 25.260  | ug/l # | 51       |
| 52) Toluene                   | 8.720          | 92   | 1366       | 0.513   | ug/l   | 99       |
| 53) t-1,3-Dichloropropene     | 8.951          | 75   | 461        | 0.284   | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.543          | 75   | 21842      | 12.225  | ug/l # | 62       |
| 56) Ethyl methacrylate        | 9.238          | 69   | 510        | 0.278   | ug/l # | 1        |
| 57) 1,3-Dichloropropane       | 9.476          | 76   | 2980       | 1.550   | ug/l # | 42       |
| 59) 2-Hexanone                | 9.482          | 43   | 43623      | 25.950  | ug/l # | 52       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 41527      | 22.863  | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 41527      | 66.066  | ug/l # | 5        |
| 93) 1,2,4-Trichlorobenzene    | 13.597         | 180  | 381        | 0.265   | ug/l   | 98       |
| -----                         |                |      |            |         |        |          |

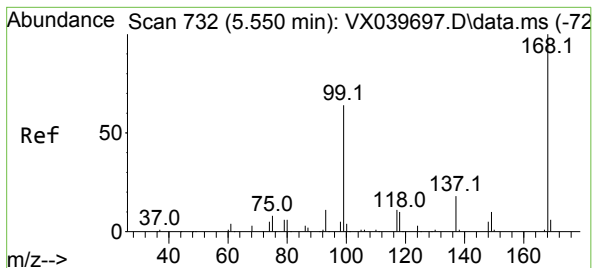
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_X  
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PB158526ZHE#09

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X011024W.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 11 03:51:26 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: VX039866.D

Acq: 20 Jan 2024 02:10

Instrument :

MSVOA\_X

ClientSampleId :

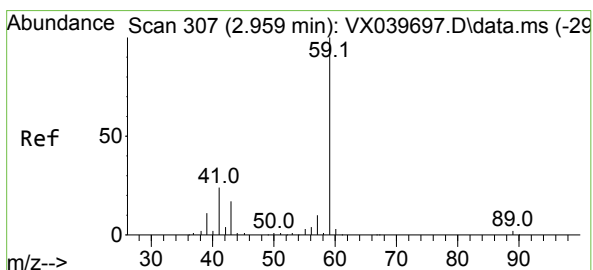
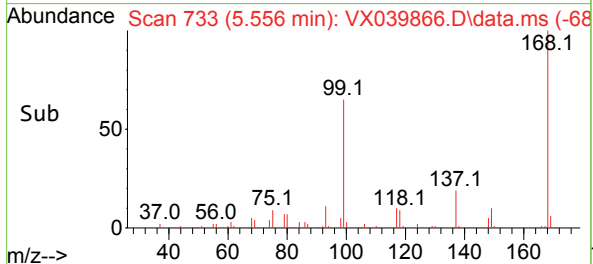
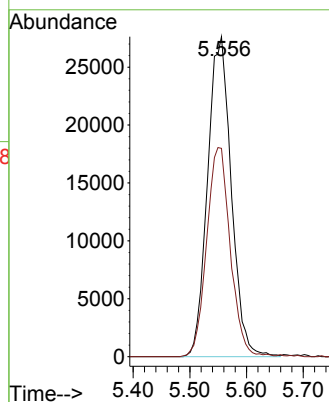
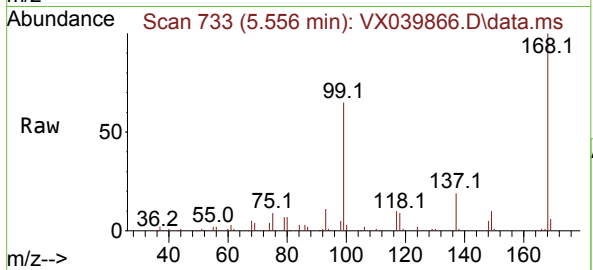
PB158526ZHE#09

Tgt Ion:168 Resp: 80087

Ion Ratio Lower Upper

168 100

99 65.1 56.6 85.0



#11

Tert butyl alcohol

Concen: 3.322 ug/l

RT: 2.940 min Scan# 304

Delta R.T. -0.019 min

Lab File: VX039866.D

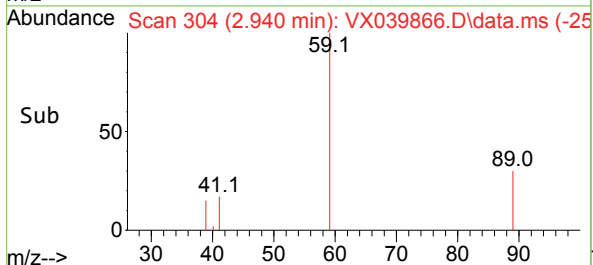
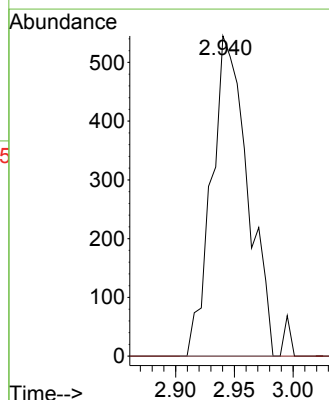
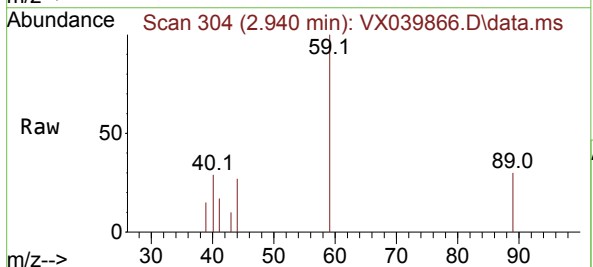
Acq: 20 Jan 2024 02:10

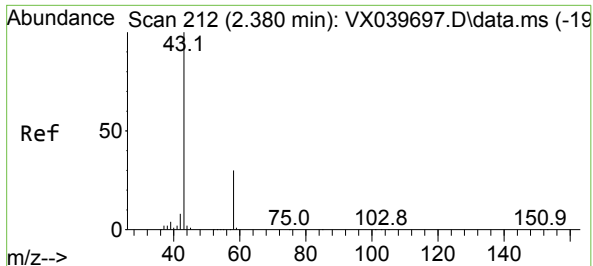
Tgt Ion: 59 Resp: 1160

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#

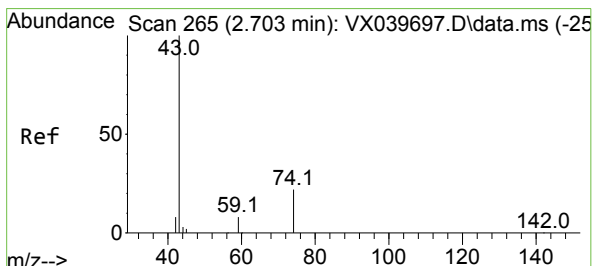
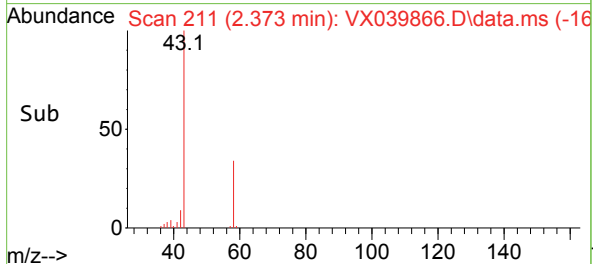
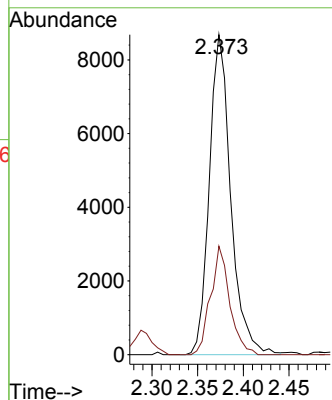
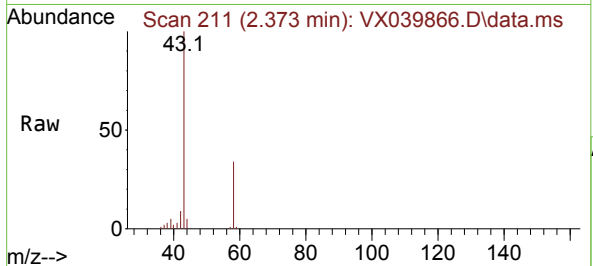




#16  
Acetone  
Concen: 18.766 ug/l  
RT: 2.373 min Scan# 211  
Delta R.T. -0.006 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

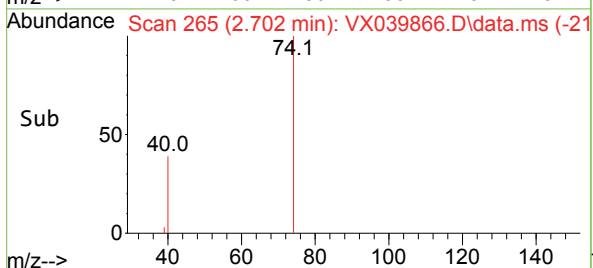
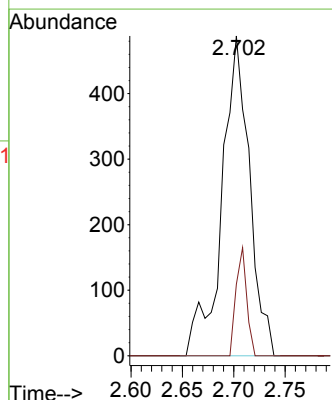
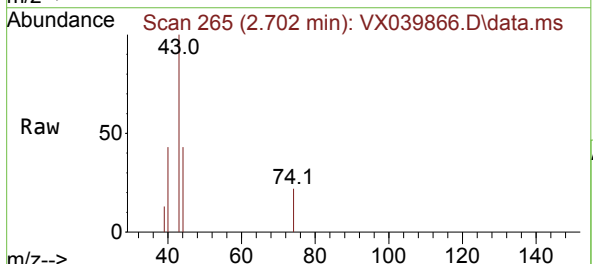
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB158526ZHE#09

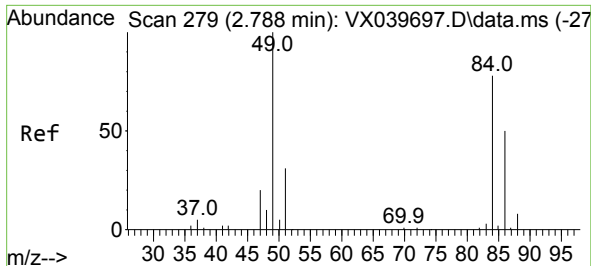
Tgt Ion: 43 Resp: 14159  
Ion Ratio Lower Upper  
43 100  
58 33.9 21.9 32.9#



#18  
Methyl Acetate  
Concen: 0.578 ug/l  
RT: 2.702 min Scan# 265  
Delta R.T. -0.000 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

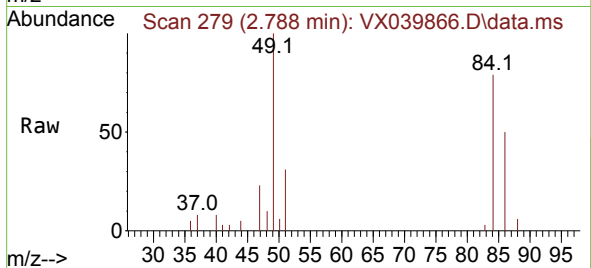
Tgt Ion: 43 Resp: 913  
Ion Ratio Lower Upper  
43 100  
74 13.0 17.8 26.8#



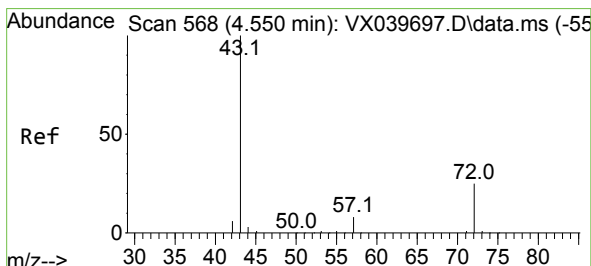
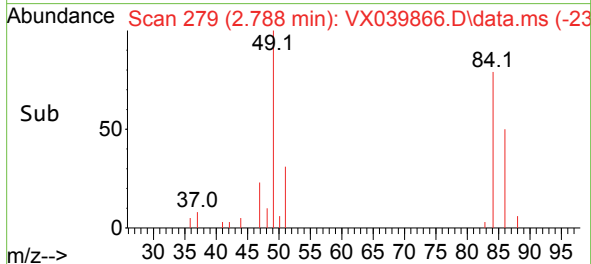
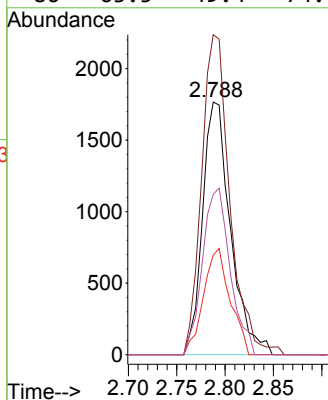


#20  
Methylene Chloride  
Concen: 3.122 ug/l  
RT: 2.788 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

Instrument :  
MSVOA\_X  
ClientSampleId :  
PB158526ZHE#09

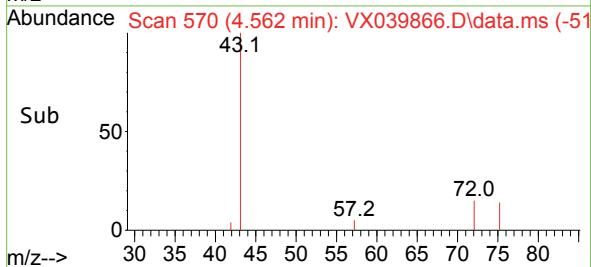
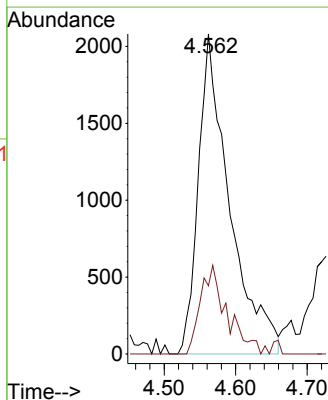
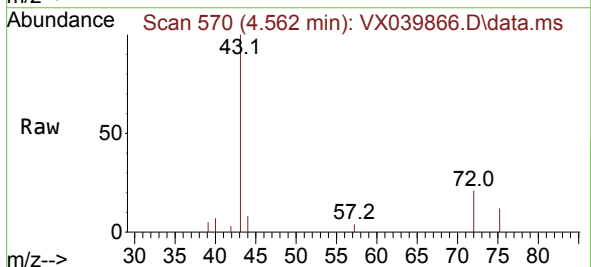


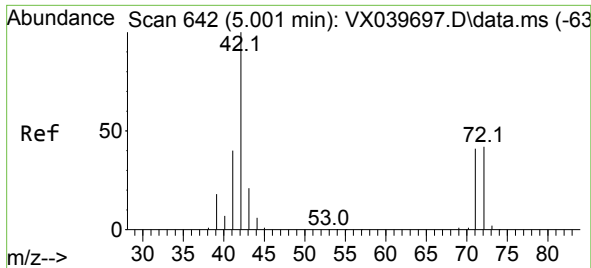
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 3563  |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 126.7    | 103.6 155.4 |
| 51 39.4     | 33.8 50.6   |
| 86 63.5     | 49.4 74.0   |



#25  
2-Butanone  
Concen: 5.822 ug/l  
RT: 4.562 min Scan# 570  
Delta R.T. 0.012 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

|             |            |       |  |
|-------------|------------|-------|--|
| Tgt Ion: 43 | Resp: 6313 |       |  |
| Ion Ratio   | Lower      | Upper |  |
| 43 100      |            |       |  |
| 72 21.3     | 19.4       | 29.2  |  |





#29

Tetrahydrofuran

Concen: 0.590 ug/l

RT: 5.013 min Scan# 642

Delta R.T. 0.012 min

Lab File: VX039866.D

Acq: 20 Jan 2024 02:10

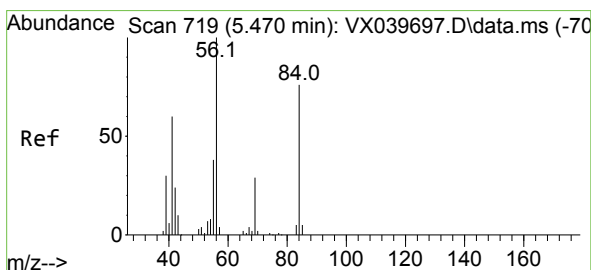
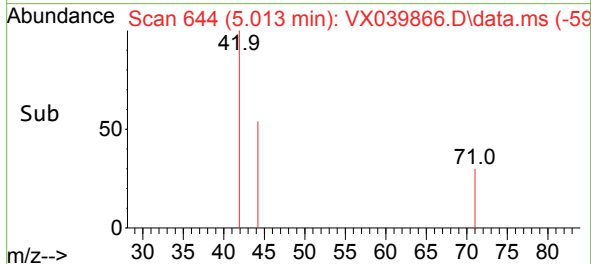
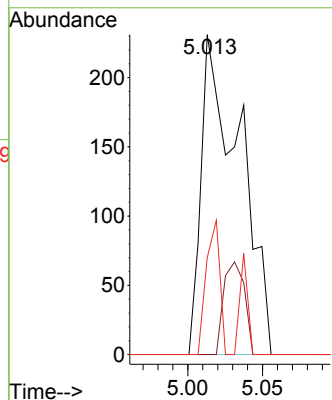
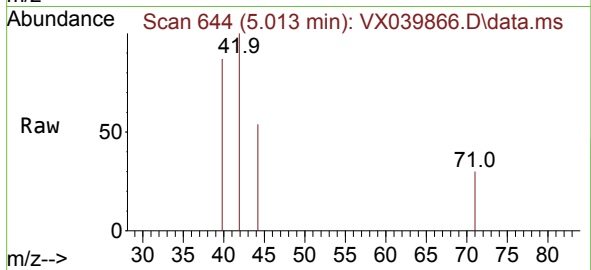
Instrument :

MSVOA\_X

ClientSampleId :

PB158526ZHE#09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 412   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 34.2  | 51.4# |
| 71       | 14.8  | 32.2  | 48.2# |



#31

Cyclohexane

Concen: 1.186 ug/l

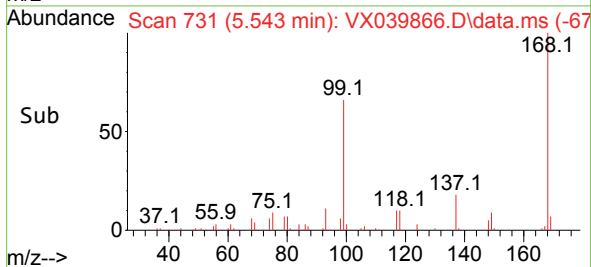
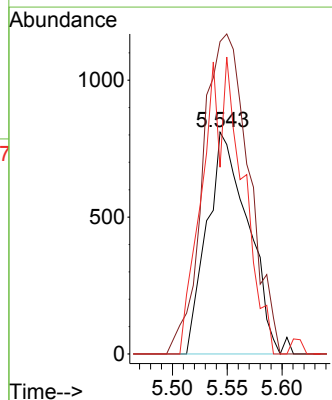
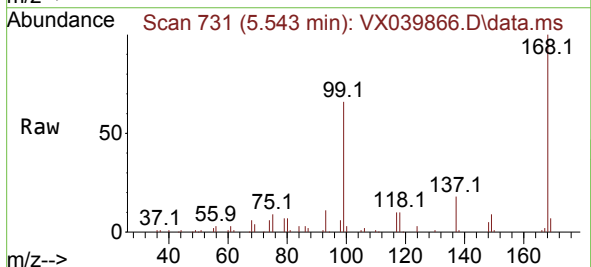
RT: 5.543 min Scan# 731

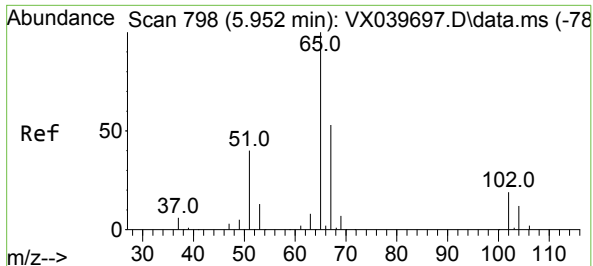
Delta R.T. 0.073 min

Lab File: VX039866.D

Acq: 20 Jan 2024 02:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 2100  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 140.9 | 23.4  | 35.2# |
| 84       | 84.2  | 65.9  | 98.9  |

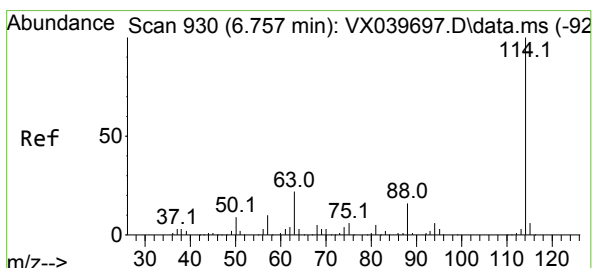
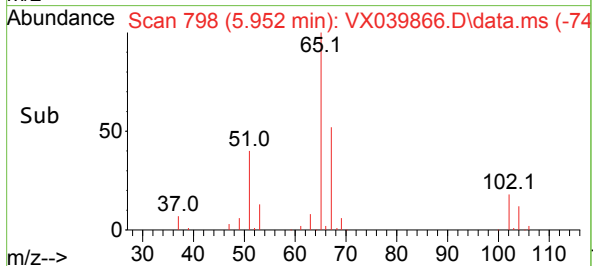
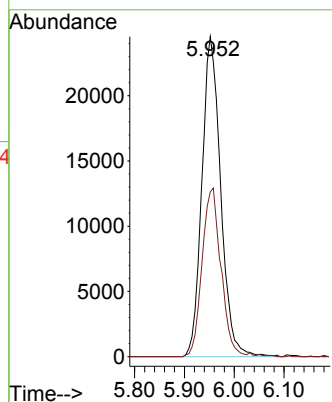
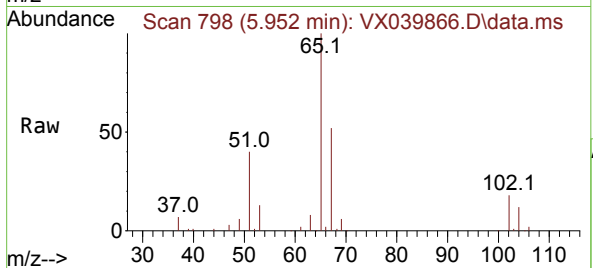




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.919 ug/l  
 RT: 5.952 min Scan# 798  
 Delta R.T. -0.000 min  
 Lab File: VX039866.D  
 Acq: 20 Jan 2024 02:10

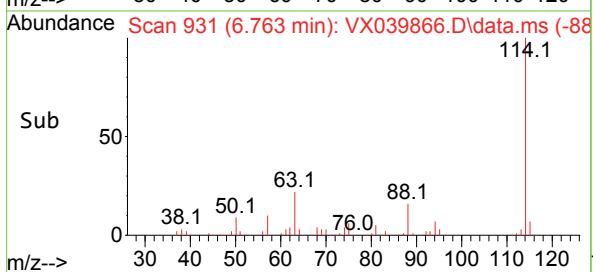
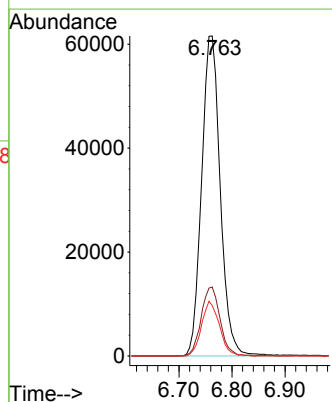
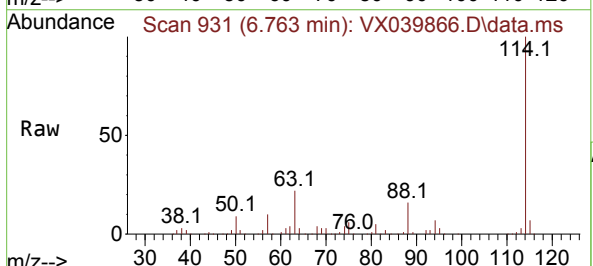
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 PB158526ZHE#09

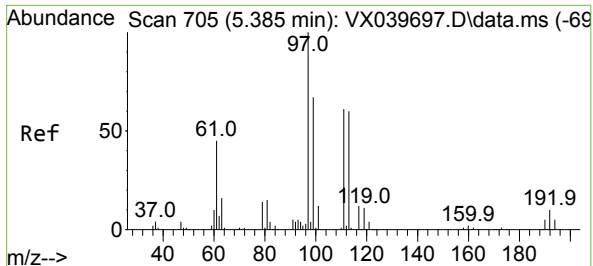
Tgt Ion: 65 Resp: 64287  
 Ion Ratio Lower Upper  
 65 100  
 67 52.7 0.0 100.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. 0.006 min  
 Lab File: VX039866.D  
 Acq: 20 Jan 2024 02:10

Tgt Ion: 114 Resp: 150314  
 Ion Ratio Lower Upper  
 114 100  
 63 21.6 0.0 45.0  
 88 15.7 0.0 36.6

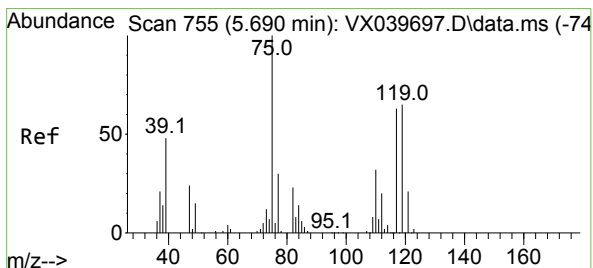
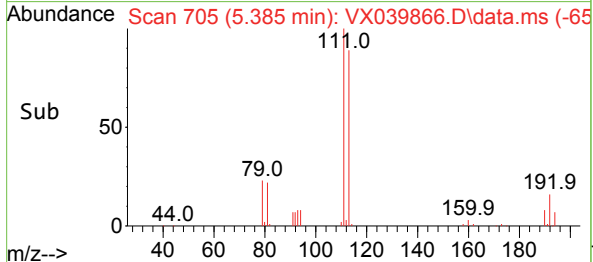
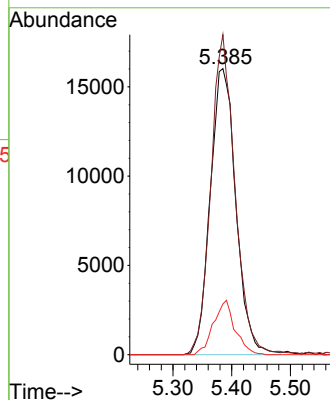
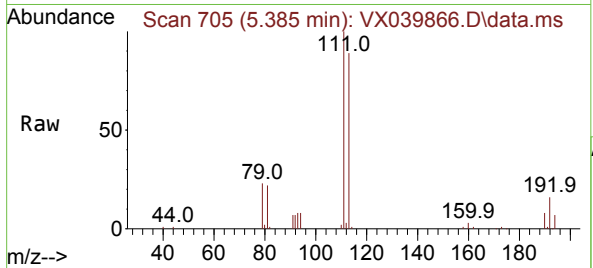




#35  
Dibromofluoromethane  
Concen: 48.039 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

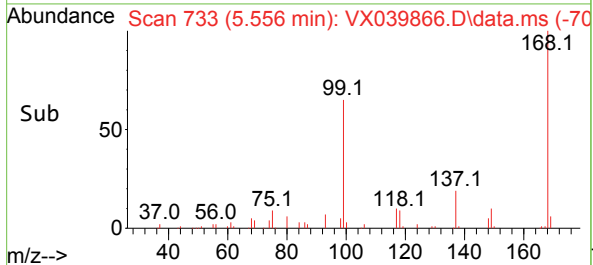
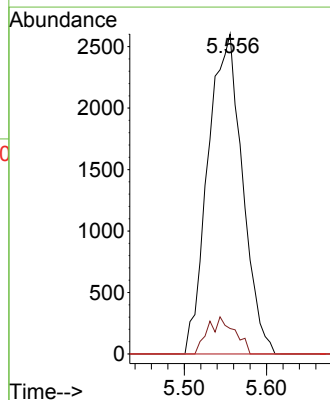
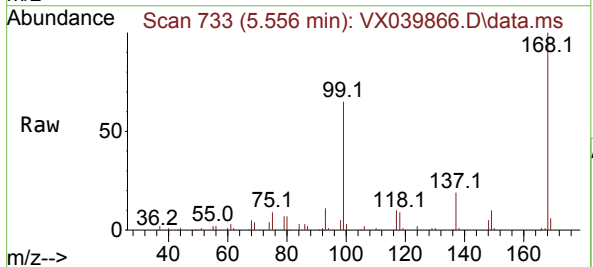
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB158526ZHE#09

Tgt Ion:113 Resp: 48636  
Ion Ratio Lower Upper  
113 100  
111 105.1 82.9 124.3  
192 16.0 13.3 19.9

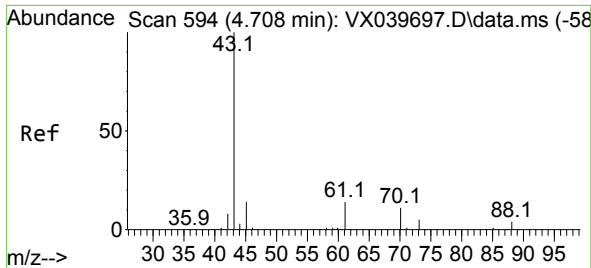


#36  
1,1-Dichloropropene  
Concen: 4.815 ug/l  
RT: 5.556 min Scan# 733  
Delta R.T. -0.134 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

Tgt Ion: 75 Resp: 7588  
Ion Ratio Lower Upper  
75 100  
110 9.0 17.0 50.9#  
77 0.0 24.7 37.1#



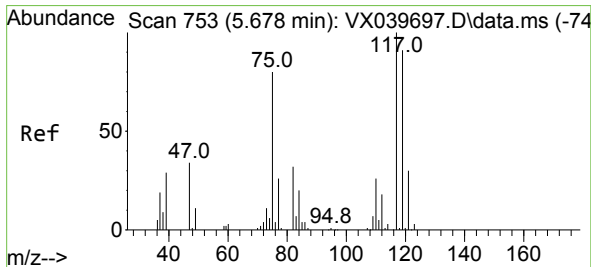
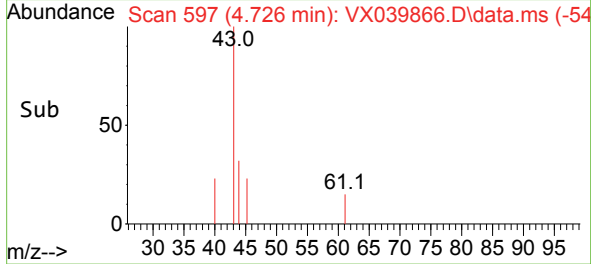
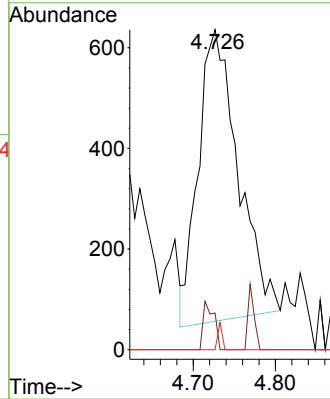
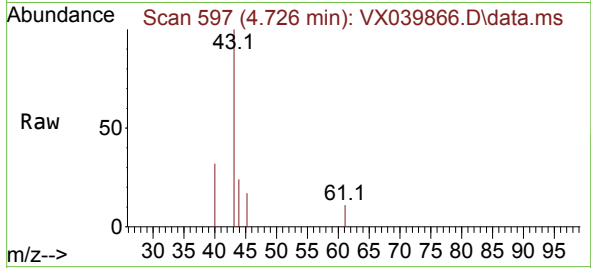




#37  
Ethyl Acetate  
Concen: 0.928 ug/l  
RT: 4.726 min Scan# 51  
Delta R.T. 0.018 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

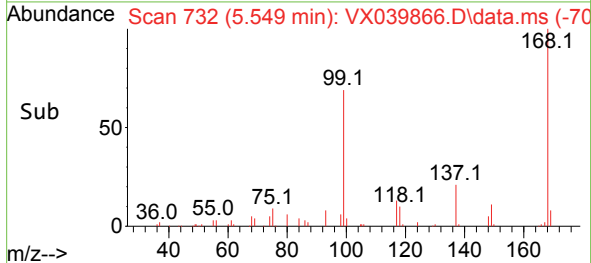
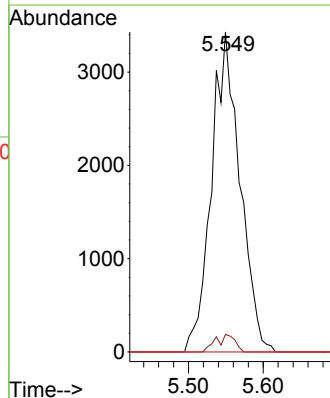
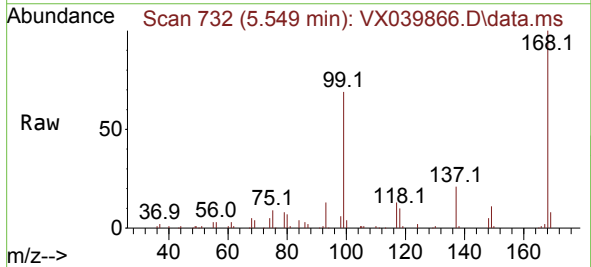
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB158526ZHE#09

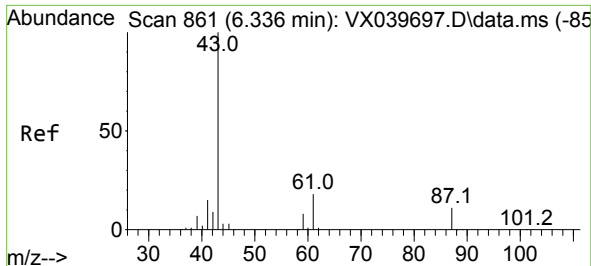
Tgt Ion: 43 Resp: 1952  
Ion Ratio Lower Upper  
43 100  
61 3.1 10.6 16.0#  
70 1.0 8.3 12.5#



#38  
Carbon Tetrachloride  
Concen: 6.308 ug/l  
RT: 5.549 min Scan# 732  
Delta R.T. -0.128 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

Tgt Ion: 117 Resp: 9104  
Ion Ratio Lower Upper  
117 100  
119 5.5 78.2 117.2#  
121 0.0 24.4 36.6#

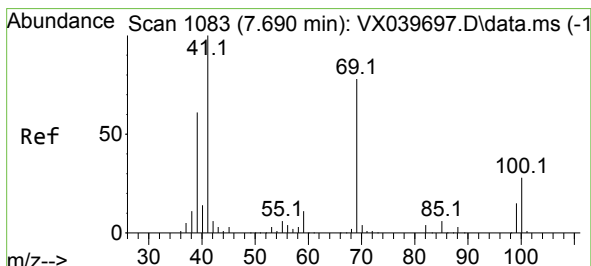
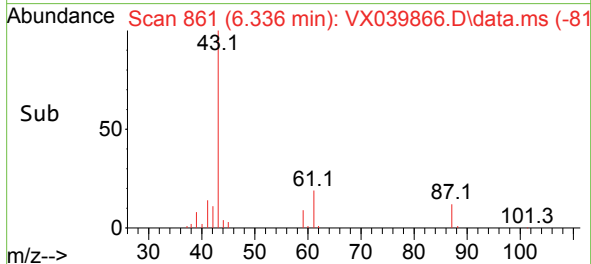
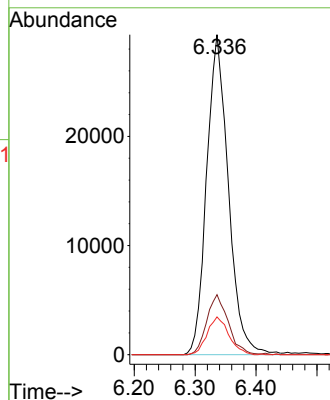
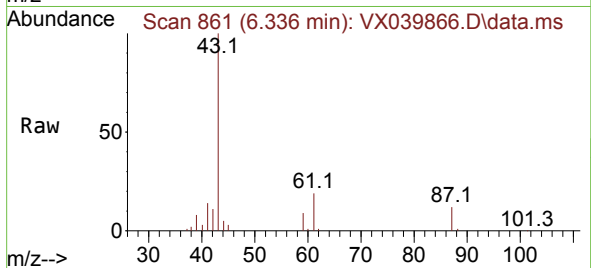




#43  
Isopropyl Acetate  
Concen: 23.571 ug/l  
RT: 6.336 min Scan# 861  
Delta R.T. -0.000 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

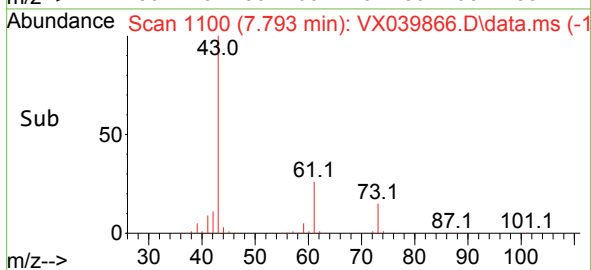
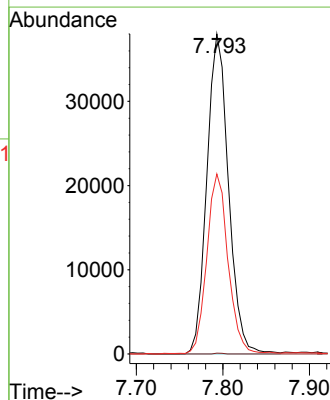
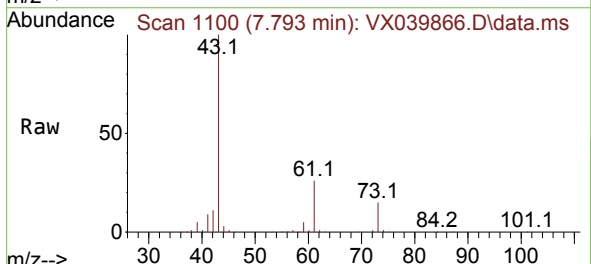
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB158526ZHE#09

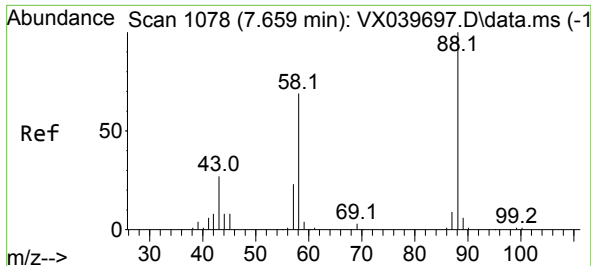
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 72695 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 61       | 18.5  | 15.2  | 22.8  |
| 87       | 11.8  | 9.8   | 14.6  |



#48  
Methyl methacrylate  
Concen: 43.515 ug/l  
RT: 7.793 min Scan# 1100  
Delta R.T. 0.103 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 65966 |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 69       | 0.1   | 59.2  | 88.8# |
| 39       | 55.6  | 47.7  | 71.5  |





#49

1,4-Dioxane

Concen: 0.682 ug/l

RT: 7.805 min Scan# 1102

Delta R.T. 0.146 min

Lab File: VX039866.D

Acq: 20 Jan 2024 02:10

Instrument :

MSVOA\_X

ClientSampleId :

PB158526ZHE#09

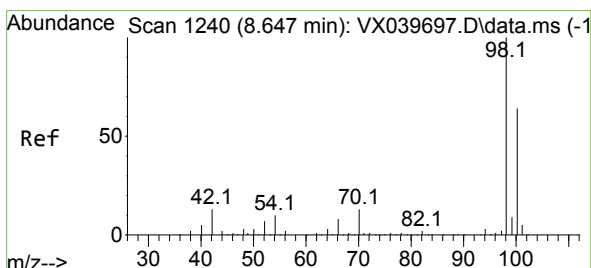
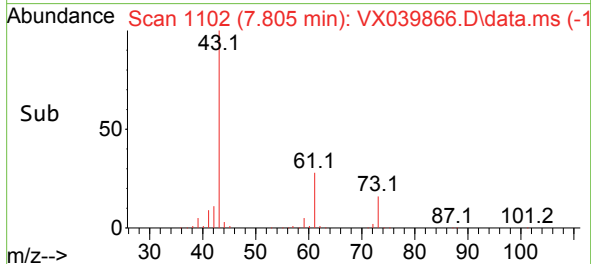
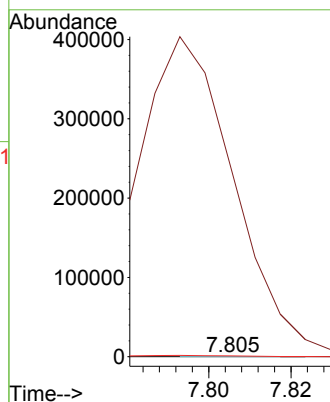
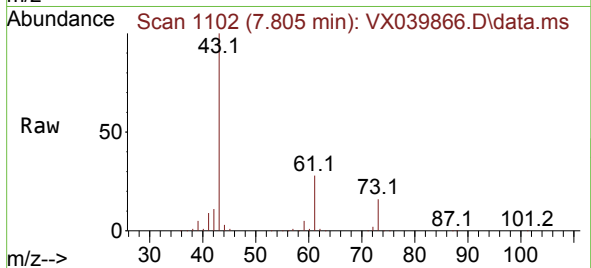
Tgt Ion: 88 Resp: 20

Ion Ratio Lower Upper

88 100

43 3436265.0 0.0 0.0#

58 14590.0 60.1 90.1#



#50

Toluene-d8

Concen: 49.108 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. -0.000 min

Lab File: VX039866.D

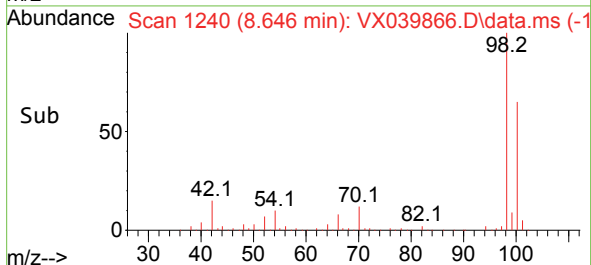
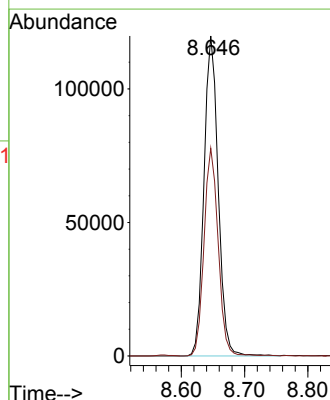
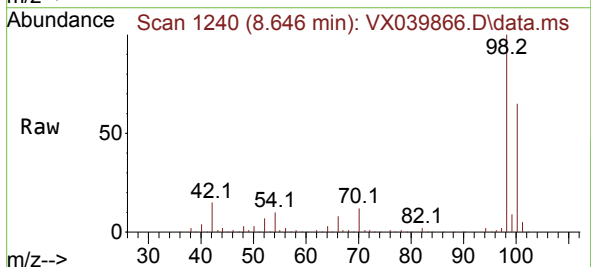
Acq: 20 Jan 2024 02:10

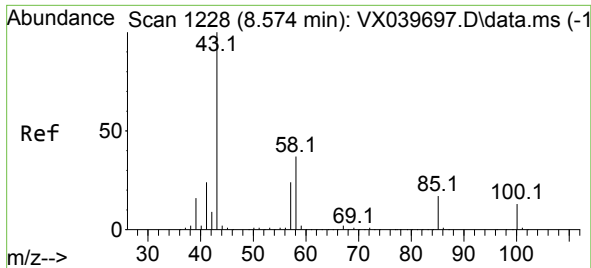
Tgt Ion: 98 Resp: 187515

Ion Ratio Lower Upper

98 100

100 64.5 53.1 79.7

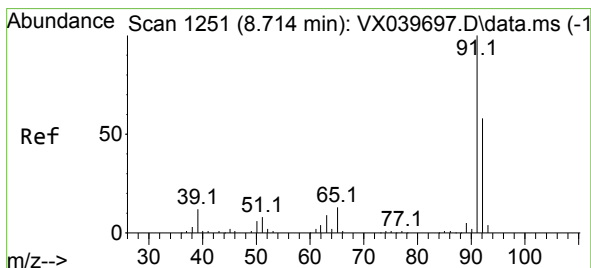
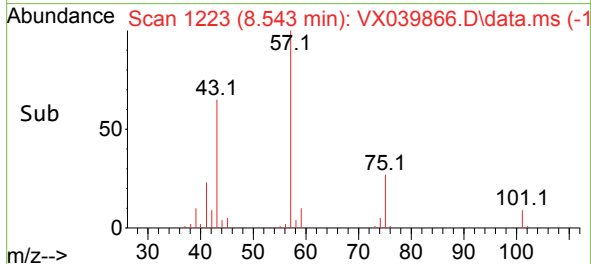
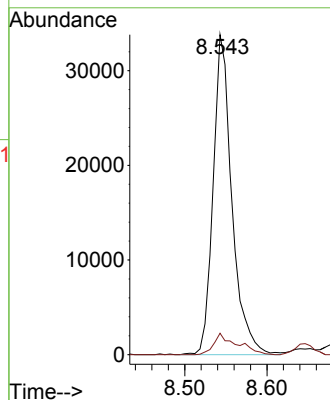
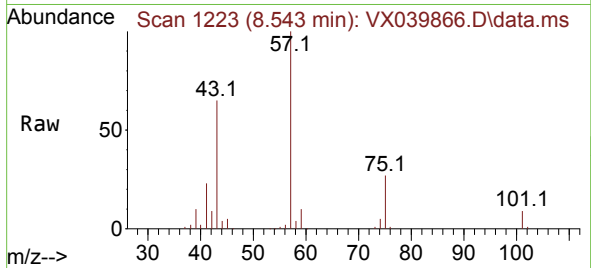




#51  
4-Methyl-2-Pentanone  
Concen: 25.260 ug/l  
RT: 8.543 min Scan# 11  
Delta R.T. -0.031 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

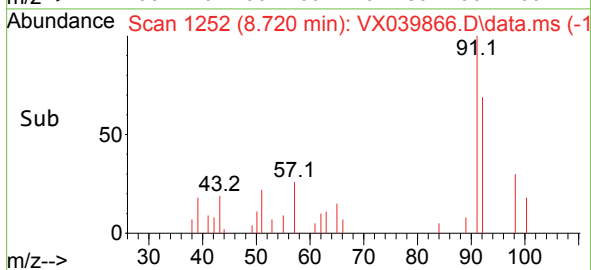
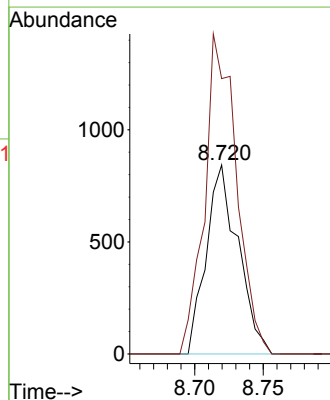
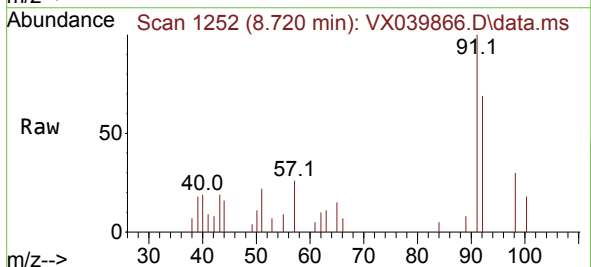
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB158526ZHE#09

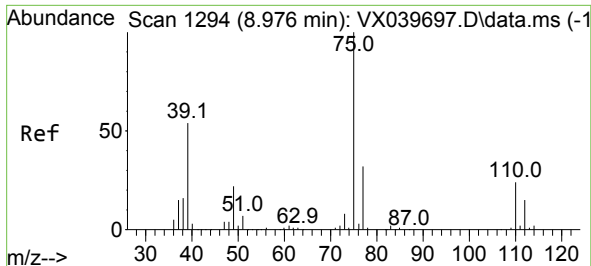
Tgt Ion: 43 Resp: 53653  
Ion Ratio Lower Upper  
43 100  
58 8.3 30.4 45.6#



#52  
Toluene  
Concen: 0.513 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. 0.006 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

Tgt Ion: 92 Resp: 1366  
Ion Ratio Lower Upper  
92 100  
91 169.0 134.2 201.2

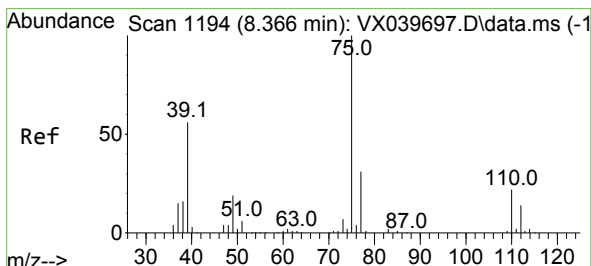
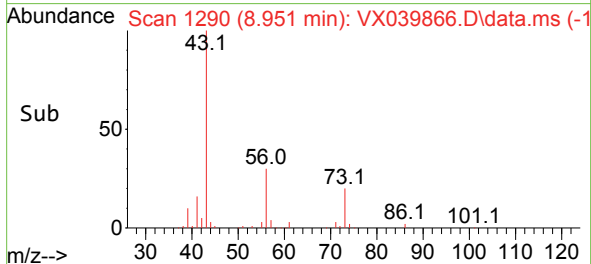
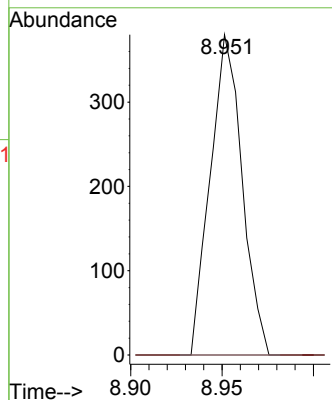
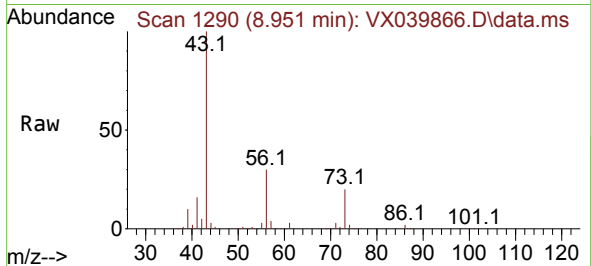




#53  
 t-1,3-Dichloropropene  
 Concen: 0.284 ug/l  
 RT: 8.951 min Scan# 11  
 Delta R.T. -0.025 min  
 Lab File: VX039866.D  
 Acq: 20 Jan 2024 02:10

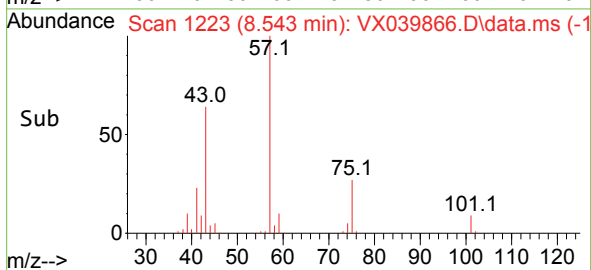
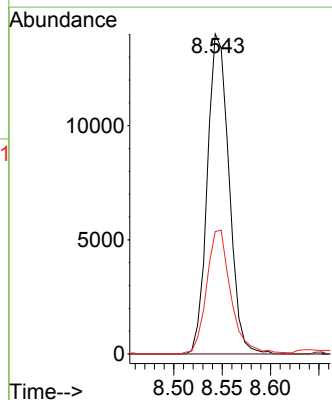
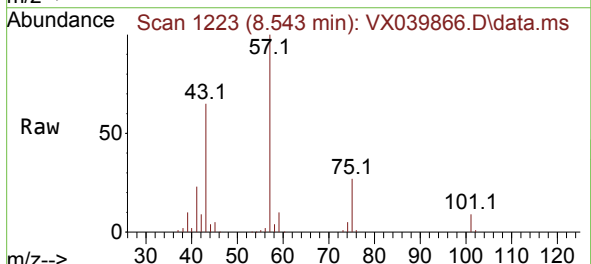
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB158526ZHE#09

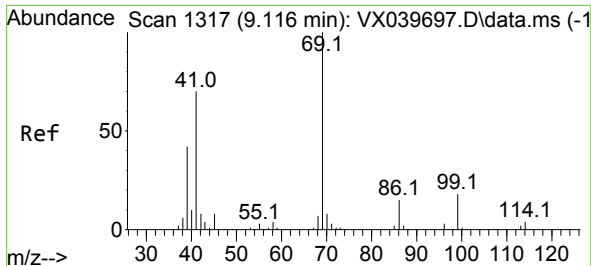
Tgt Ion: 75 Resp: 461  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.7 38.5#



#54  
 cis-1,3-Dichloropropene  
 Concen: 12.225 ug/l  
 RT: 8.543 min Scan# 1223  
 Delta R.T. 0.177 min  
 Lab File: VX039866.D  
 Acq: 20 Jan 2024 02:10

Tgt Ion: 75 Resp: 21842  
 Ion Ratio Lower Upper  
 75 100  
 77 0.0 25.3 37.9#  
 39 38.3 46.7 70.1#

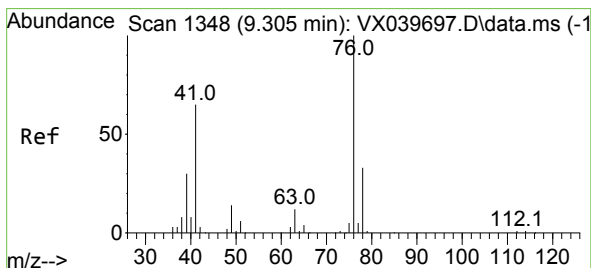
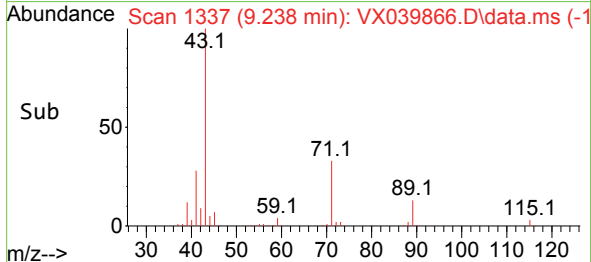
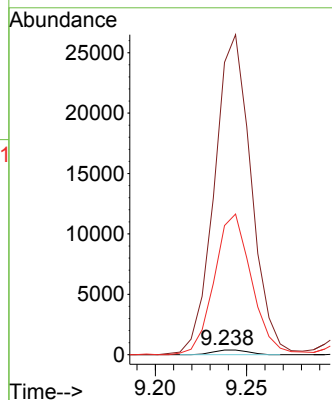
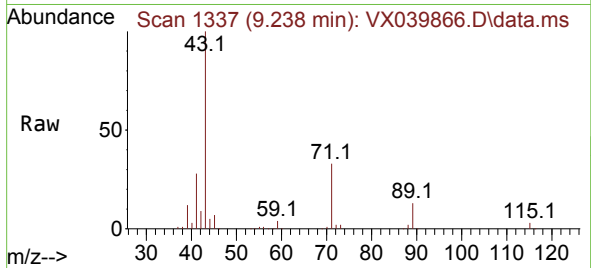




#56  
Ethyl methacrylate  
Concen: 0.278 ug/l  
RT: 9.238 min Scan# 1317  
Delta R.T. 0.122 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

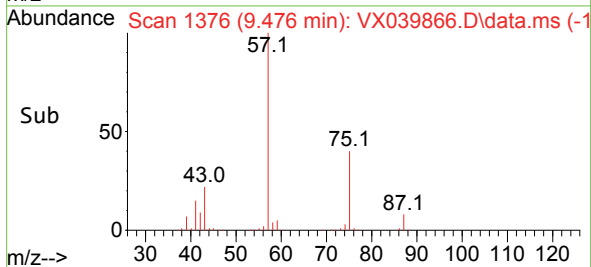
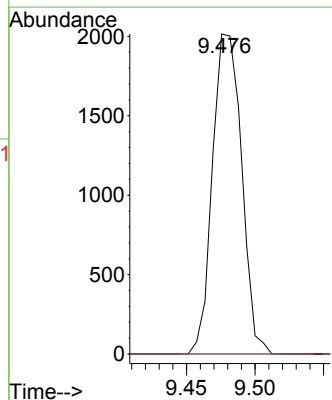
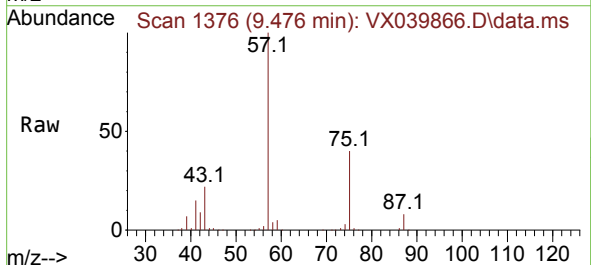
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB158526ZHE#09

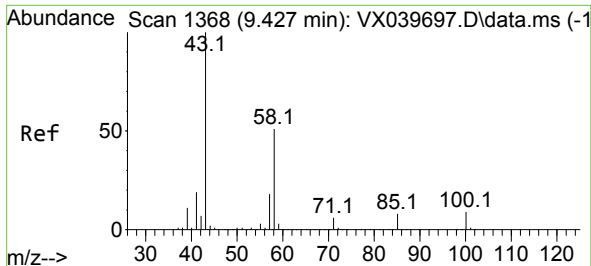
Tgt Ion: 69 Resp: 510  
Ion Ratio Lower Upper  
69 100  
41 7310.4 56.8 85.2#  
39 3270.0 32.0 48.0#



#57  
1,3-Dichloropropane  
Concen: 1.550 ug/l  
RT: 9.476 min Scan# 1376  
Delta R.T. 0.170 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

Tgt Ion: 76 Resp: 2980  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#

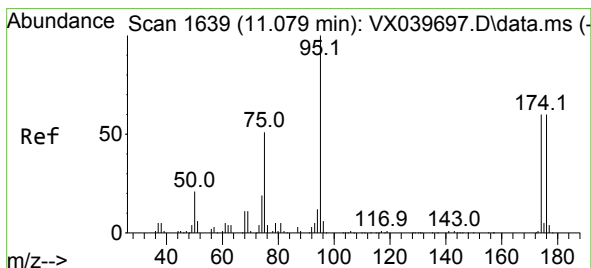
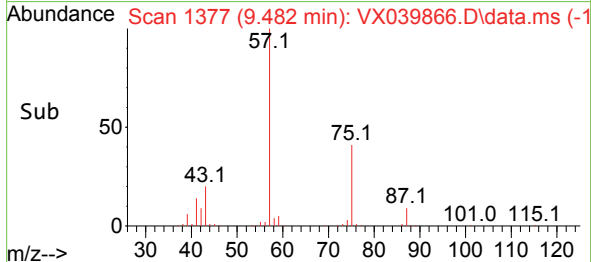
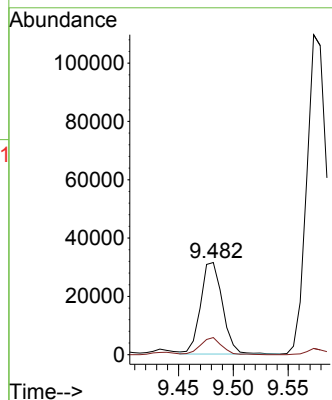
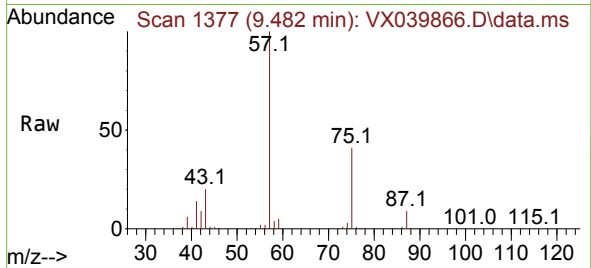




#59  
2-Hexanone  
Concen: 25.950 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.055 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

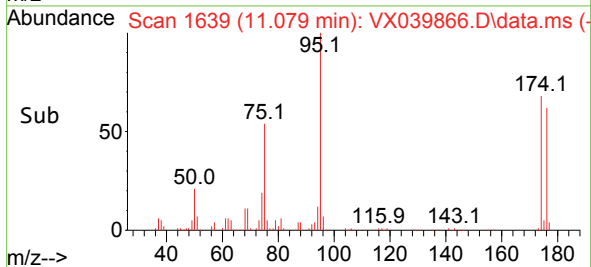
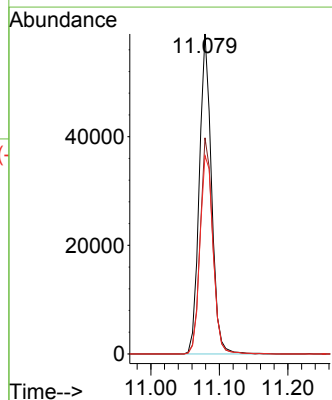
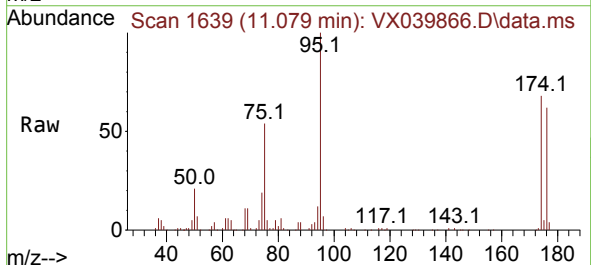
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB158526ZHE#09

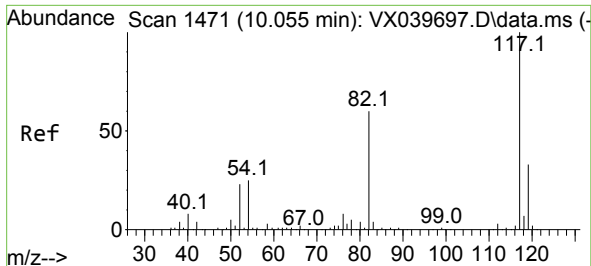
Tgt Ion: 43 Resp: 43623  
Ion Ratio Lower Upper  
43 100  
58 18.4 26.2 78.5#



#62  
4-Bromofluorobenzene  
Concen: 48.871 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

Tgt Ion: 95 Resp: 72974  
Ion Ratio Lower Upper  
95 100  
174 69.5 0.0 135.6  
176 67.0 0.0 131.0

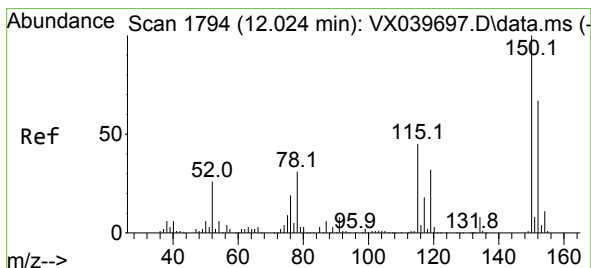
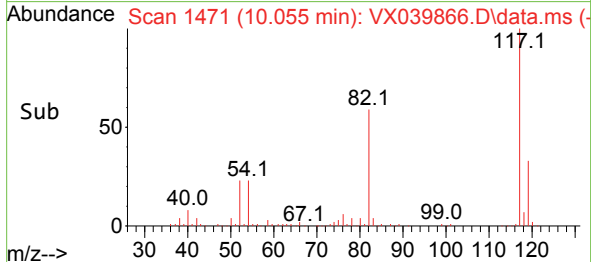
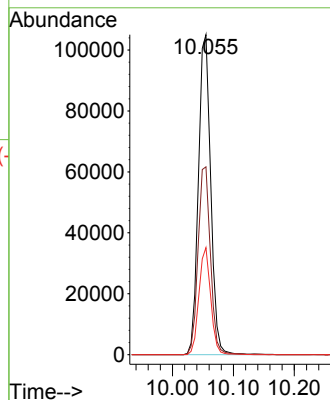
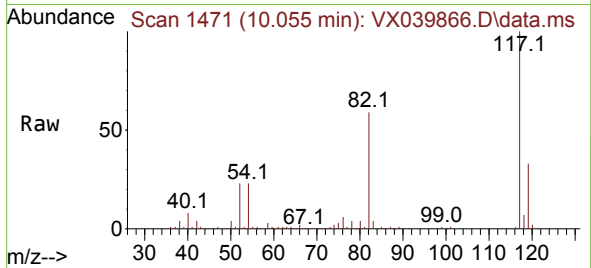




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

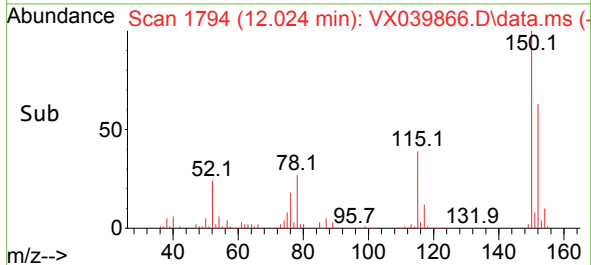
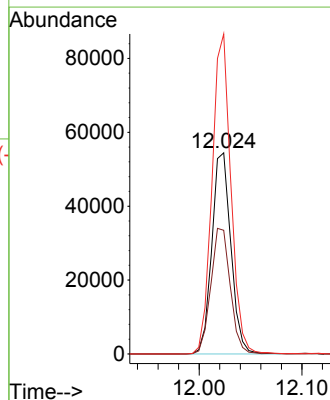
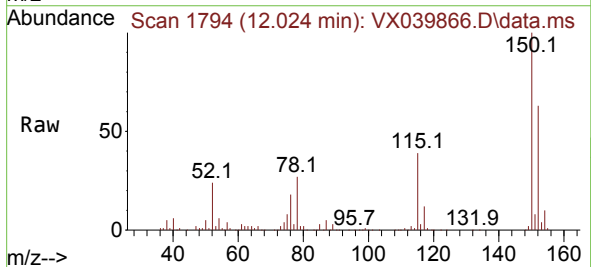
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB158526ZHE#09

Tgt Ion:117 Resp: 147255  
Ion Ratio Lower Upper  
117 100  
82 58.7 46.2 69.4  
119 33.4 25.5 38.3

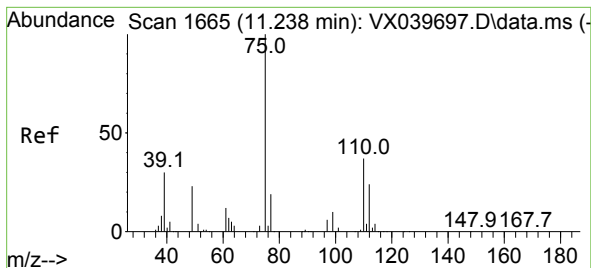


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. -0.000 min  
Lab File: VX039866.D  
Acq: 20 Jan 2024 02:10

Tgt Ion:152 Resp: 70058  
Ion Ratio Lower Upper  
152 100  
115 63.8 43.3 129.9  
150 157.2 0.0 345.0







#76

1,2,3-Trichloropropane

Concen: 22.863 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX039866.D

Acq: 20 Jan 2024 02:10

Instrument :

MSVOA\_X

ClientSampleId :

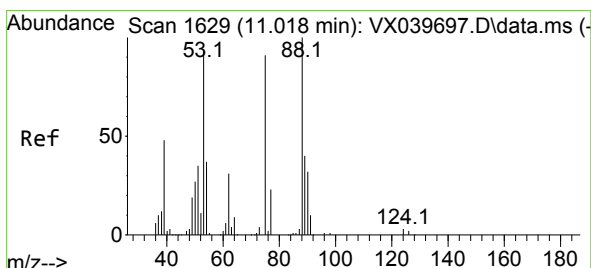
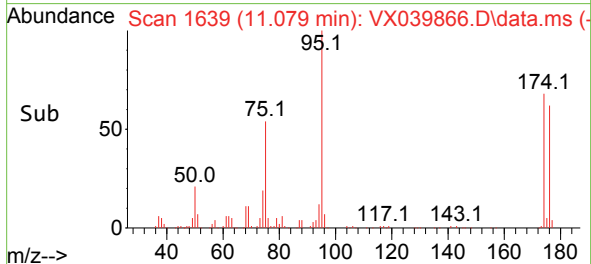
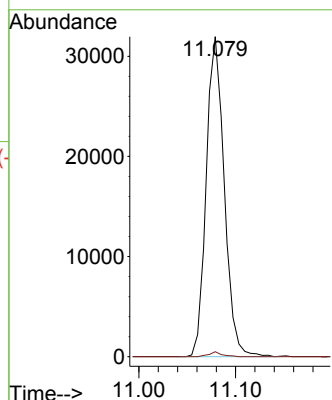
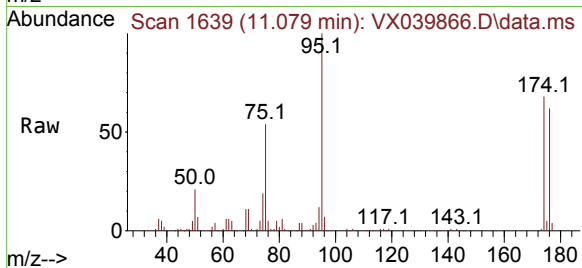
PB158526ZHE#09

Tgt Ion: 75 Resp: 41527

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.066 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX039866.D

Acq: 20 Jan 2024 02:10

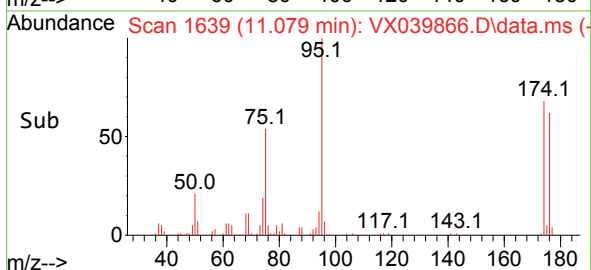
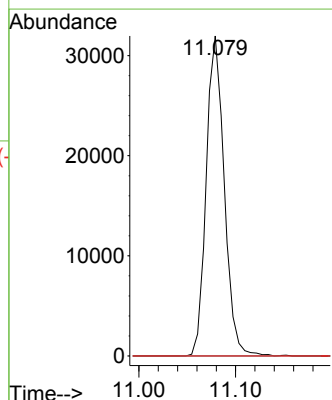
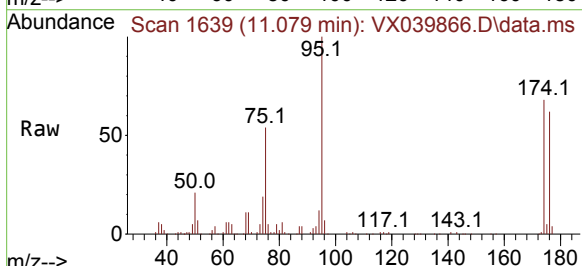
Tgt Ion: 75 Resp: 41527

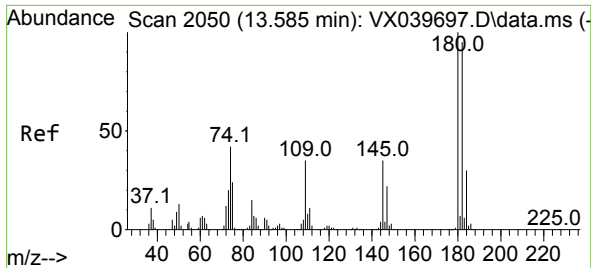
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

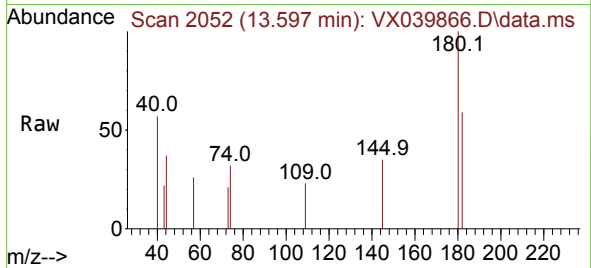
89 0.0 36.9 55.3#





#93  
 1,2,4-Trichlorobenzene  
 Concen: 0.265 ug/l  
 RT: 13.597 min Scan# 2052  
 Delta R.T. 0.012 min  
 Lab File: VX039866.D  
 Acq: 20 Jan 2024 02:10

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB158526ZHE#09



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 381   |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 95.5  | 48.3  | 144.8 |
| 145      | 32.3  | 18.0  | 54.0  |

