

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX011624\  
 Data File : VX039770.D  
 Acq On : 16 Jan 2024 13:39  
 Operator : JC/MD  
 Sample : P1139-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: Jan 17 01:47:50 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

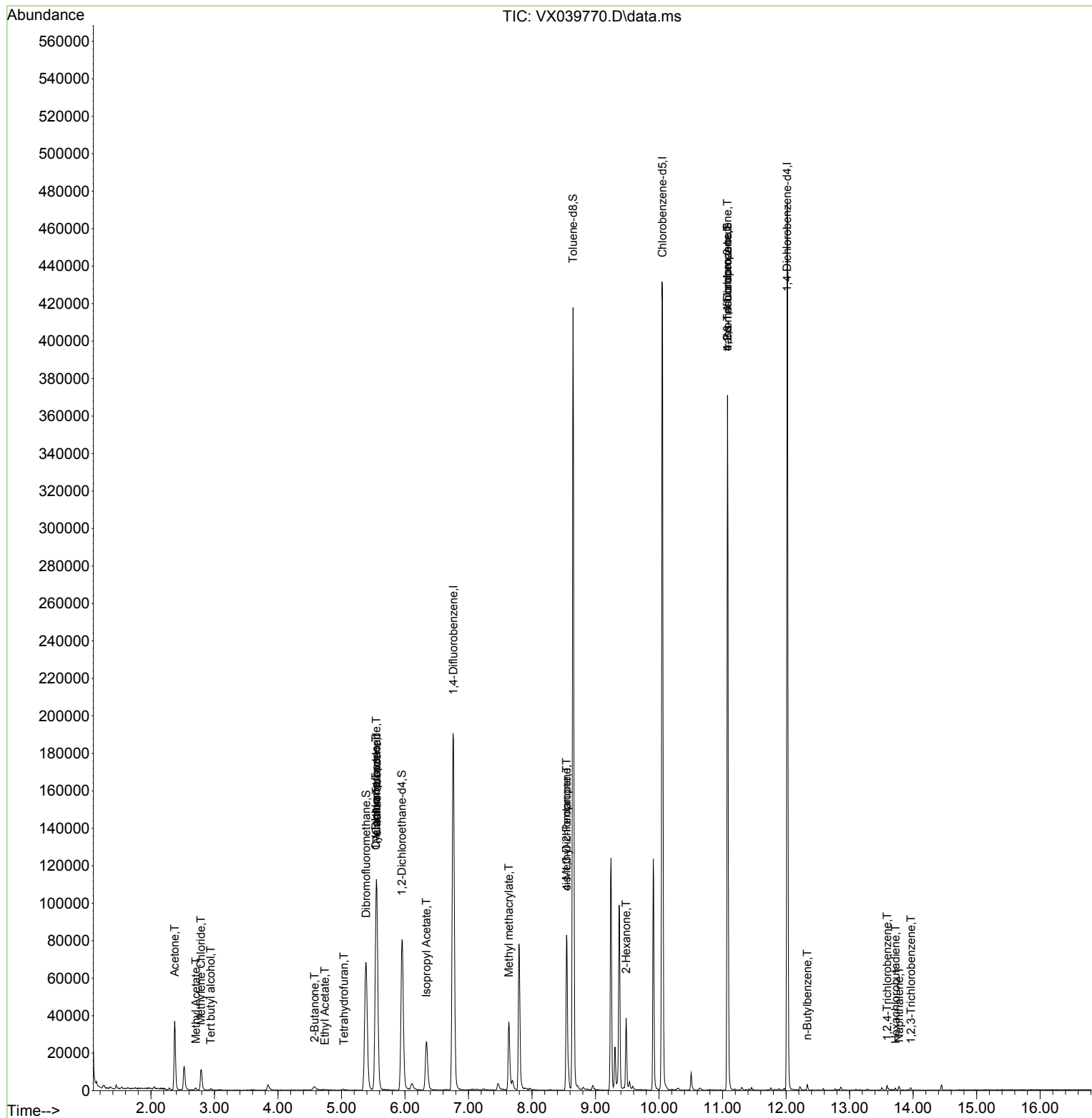
| Compound                      | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|-----------|--------|----------|
| -----                         |                |      |            |           |        |          |
| Internal Standards            |                |      |            |           |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 101069     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 190399     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 189899     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.018         | 152  | 88855      | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952          | 65   | 76865      | 45.400    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 90.800%   |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 60080      | 46.849    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 93.700%   |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 238518     | 49.314    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 98.620%   |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 95880      | 50.693    | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 101.380%  |        |          |
| Target Compounds              |                |      |            |           |        |          |
|                               |                |      |            |           | Qvalue |          |
| 11) Tert butyl alcohol        | 2.940          | 59   | 830        | 1.883     | ug/l # | 78       |
| 13) Acrolein                  | 2.233          | 56   | 48         | Below Cal | #      | 14       |
| 16) Acetone                   | 2.373          | 43   | 38713      | 40.658    | ug/l   | 96       |
| 18) Methyl Acetate            | 2.709          | 43   | 1533       | 0.770     | ug/l # | 85       |
| 20) Methylene Chloride        | 2.788          | 84   | 5374       | 3.731     | ug/l   | 98       |
| 25) 2-Butanone                | 4.574          | 43   | 3126       | 2.285     | ug/l   | 94       |
| 29) Tetrahydrofuran           | 5.038          | 42   | 694        | 0.788     | ug/l # | 46       |
| 31) Cyclohexane               | 5.544          | 56   | 2684       | 1.201     | ug/l # | 16       |
| 36) 1,1-Dichloropropene       | 5.544          | 75   | 9337       | 4.678     | ug/l # | 49       |
| 37) Ethyl Acetate             | 4.739          | 43   | 820        | 0.308     | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 10665      | 5.833     | ug/l # | 15       |
| 43) Isopropyl Acetate         | 6.336          | 43   | 37306      | 9.550     | ug/l   | 98       |
| 48) Methyl methacrylate       | 7.635          | 41   | 1712       | 0.892     | ug/l # | 32       |
| 51) 4-Methyl-2-Pentanone      | 8.543          | 43   | 33784      | 12.557    | ug/l # | 47       |
| 54) cis-1,3-Dichloropropene   | 8.543          | 75   | 13050      | 5.766     | ug/l # | 59       |
| 59) 2-Hexanone                | 9.482          | 43   | 4498       | 2.112     | ug/l # | 58       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 52632      | 22.847    | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 52632      | 66.025    | ug/l # | 5        |
| 89) n-Butylbenzene            | 12.335         | 91   | 1199       | 0.209     | ug/l   | 96       |
| 93) 1,2,4-Trichlorobenzene    | 13.591         | 180  | 422        | 0.231     | ug/l   | 94       |
| 94) Hexachlorobutadiene       | 13.725         | 225  | 278        | 0.367     | ug/l # | 40       |
| 95) Naphthalene               | 13.780         | 128  | 1525       | 0.227     | ug/l # | 95       |
| 96) 1,2,3-Trichlorobenzene    | 13.969         | 180  | 436        | 0.237     | ug/l   | 92       |
| -----                         |                |      |            |           |        |          |

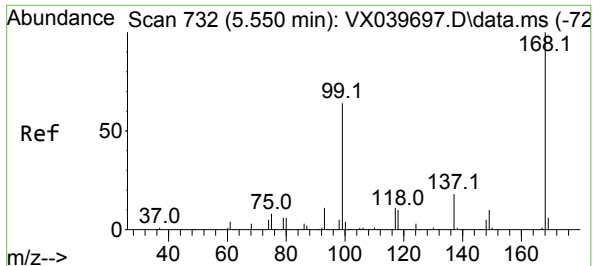
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX011624\  
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Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: Jan 17 01:47:50 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

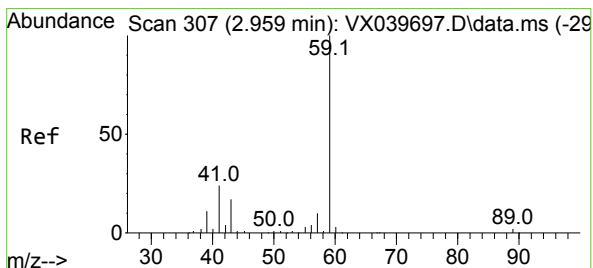
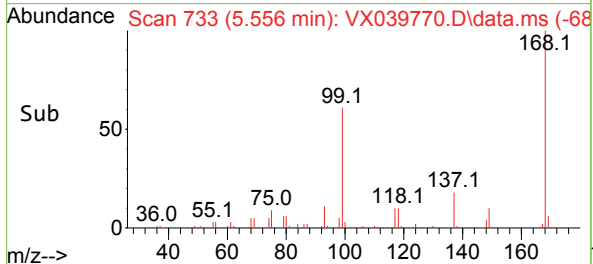
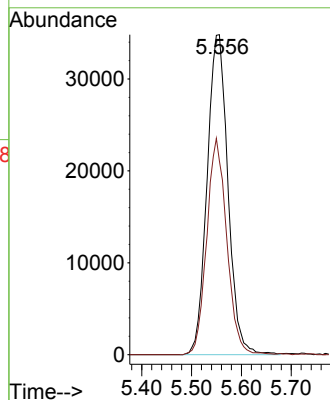
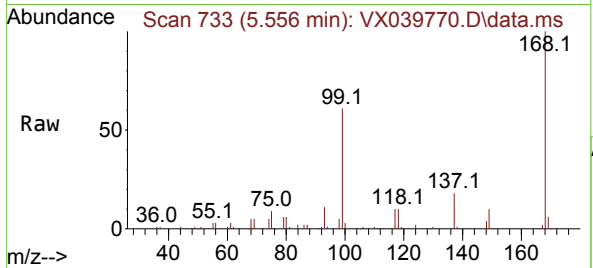




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

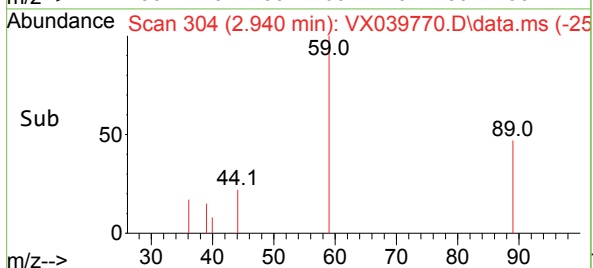
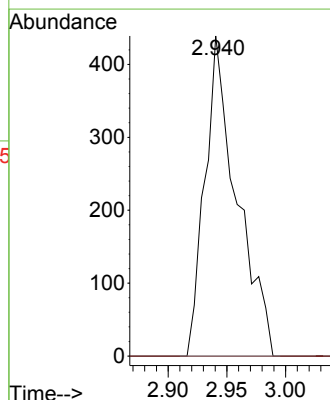
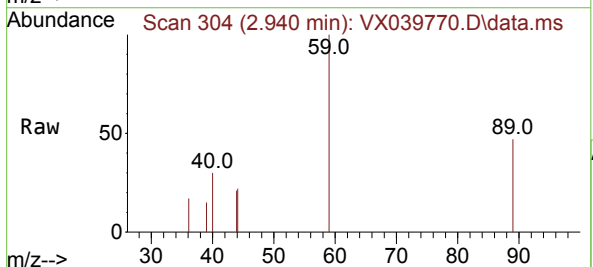
Instrument :  
MSVOA\_X  
ClientSampleId :

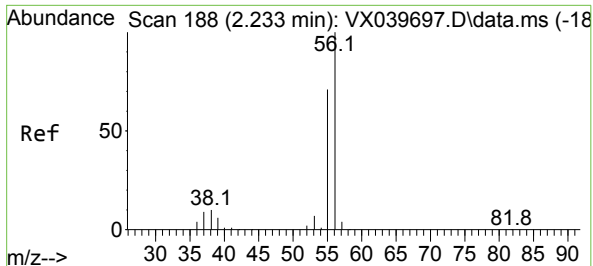
Tgt Ion:168 Resp: 101069  
Ion Ratio Lower Upper  
168 100  
99 60.5 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 1.883 ug/l  
RT: 2.940 min Scan# 304  
Delta R.T. -0.018 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

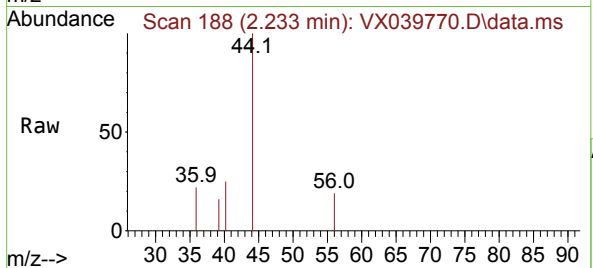
Tgt Ion: 59 Resp: 830  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#



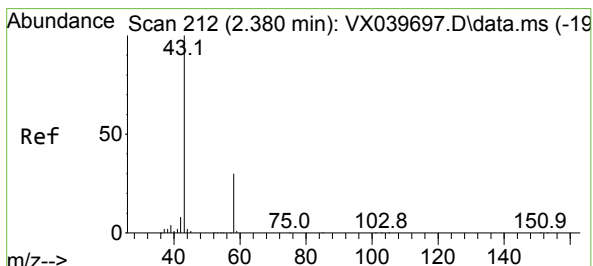
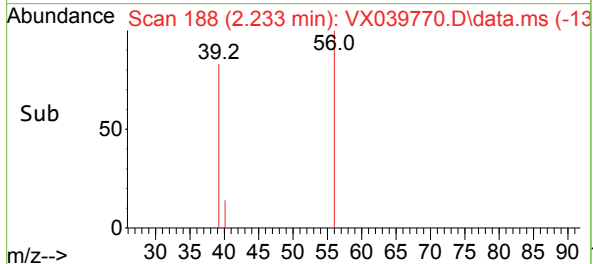
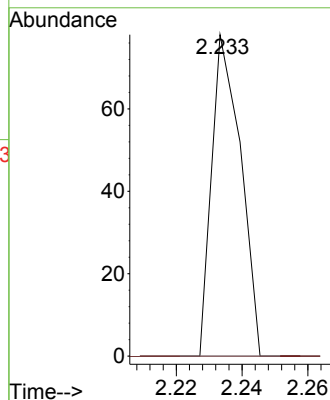


#13  
Acrolein  
Concen: Below Cal  
RT: 2.233 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

Instrument :  
MSVOA\_X  
ClientSampleId :

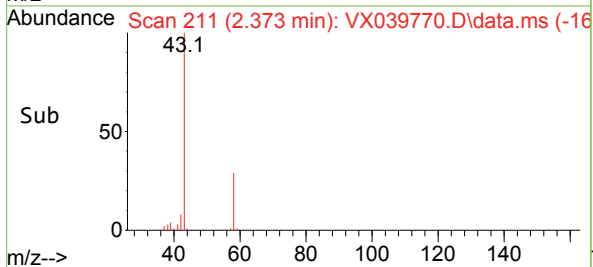
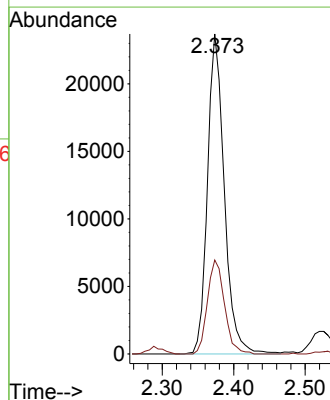
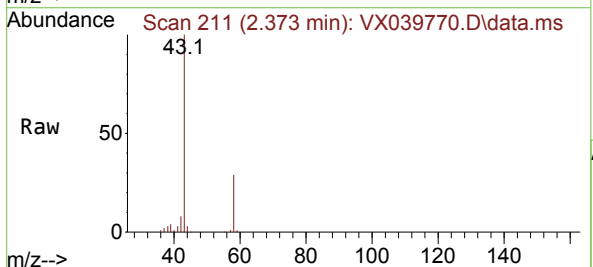


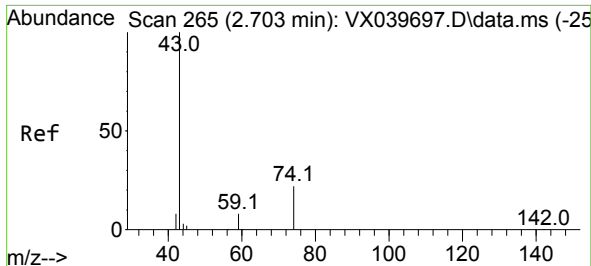
Tgt Ion: 56 Resp: 48  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#



#16  
Acetone  
Concen: 40.658 ug/l  
RT: 2.373 min Scan# 211  
Delta R.T. -0.006 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

Tgt Ion: 43 Resp: 38713  
Ion Ratio Lower Upper  
43 100  
58 29.4 21.9 32.9





#18

Methyl Acetate

Concen: 0.770 ug/l

RT: 2.709 min Scan# 2

Delta R.T. 0.006 min

Lab File: VX039770.D

Acq: 16 Jan 2024 13:39

Instrument :

MSVOA\_X

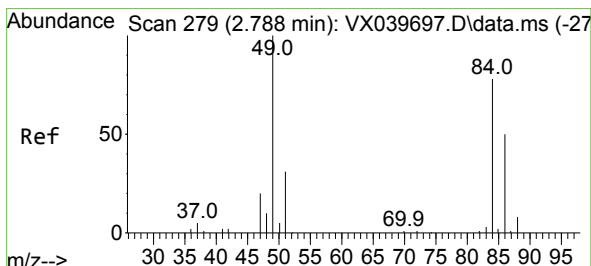
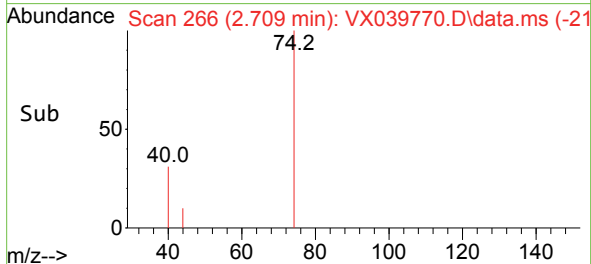
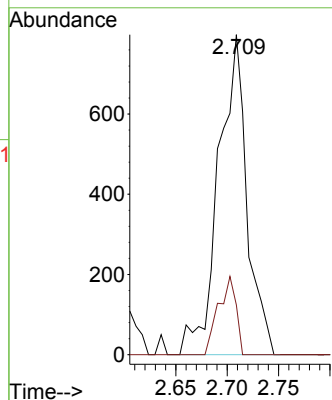
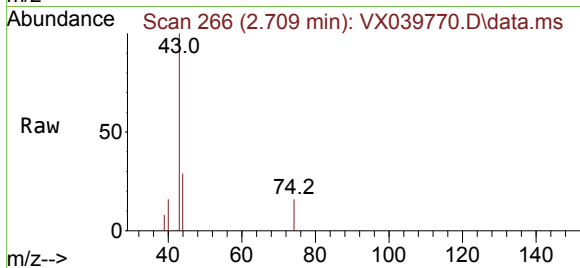
ClientSampleId :

Tgt Ion: 43 Resp: 1533

Ion Ratio Lower Upper

43 100

74 15.1 17.8 26.8#



#20

Methylene Chloride

Concen: 3.731 ug/l

RT: 2.788 min Scan# 279

Delta R.T. 0.000 min

Lab File: VX039770.D

Acq: 16 Jan 2024 13:39

Tgt Ion: 84 Resp: 5374

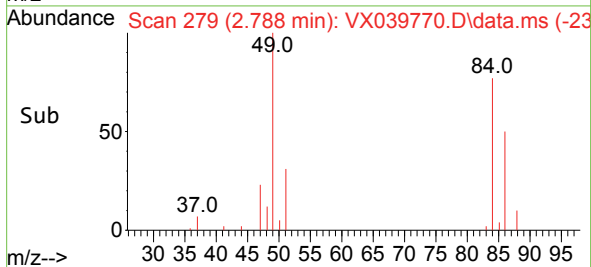
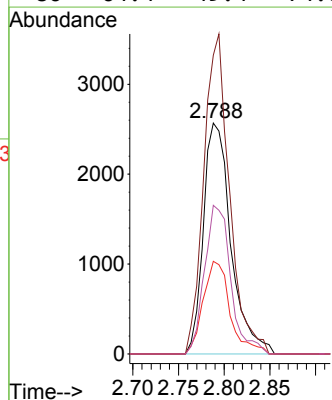
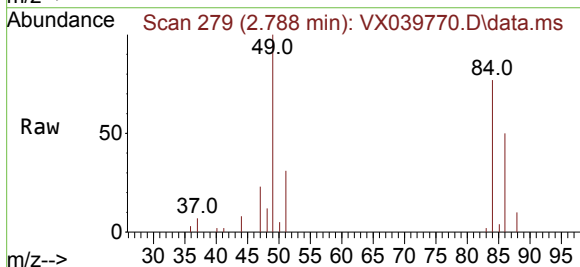
Ion Ratio Lower Upper

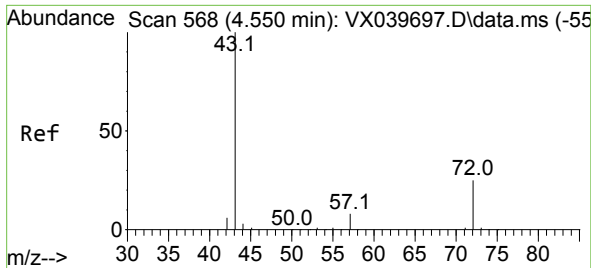
84 100

49 129.4 103.6 155.4

51 40.1 33.8 50.6

86 64.4 49.4 74.0

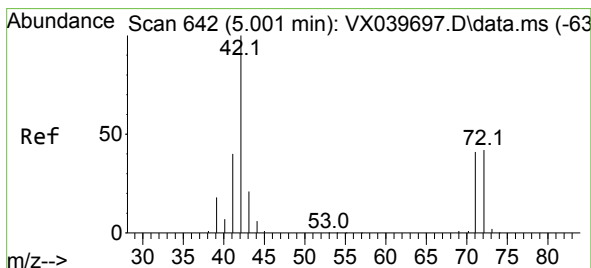
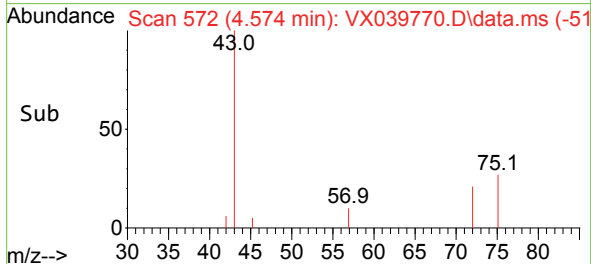
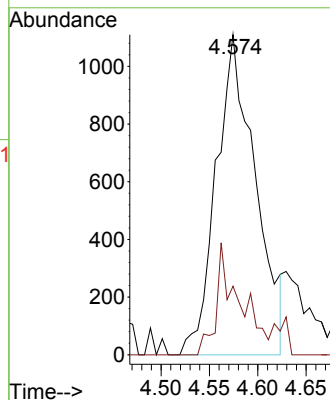
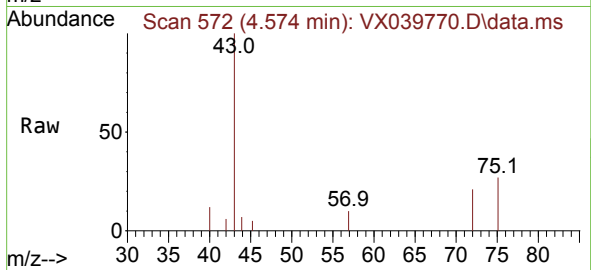




#25  
2-Butanone  
Concen: 2.285 ug/l  
RT: 4.574 min Scan# 51  
Delta R.T. 0.024 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

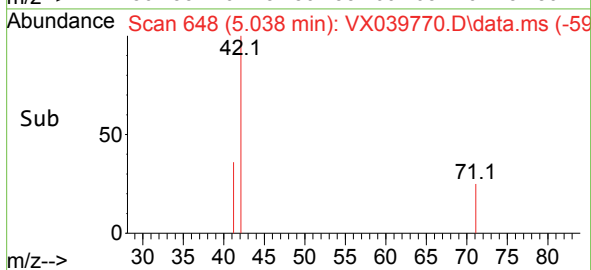
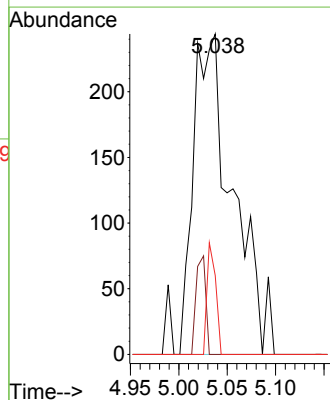
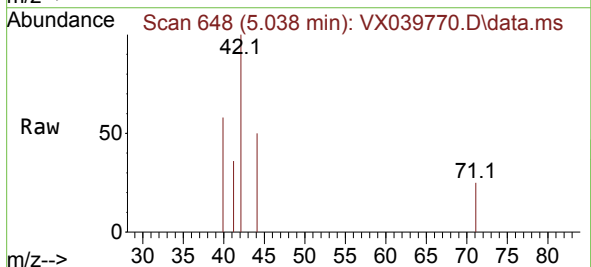
Instrument :  
MSVOA\_X  
ClientSampleId :

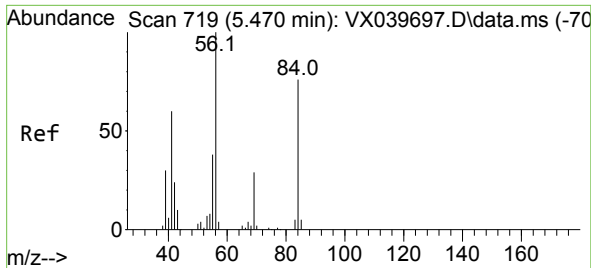
Tgt Ion: 43 Resp: 3126  
Ion Ratio Lower Upper  
43 100  
72 21.4 19.4 29.2



#29  
Tetrahydrofuran  
Concen: 0.788 ug/l  
RT: 5.038 min Scan# 648  
Delta R.T. 0.037 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

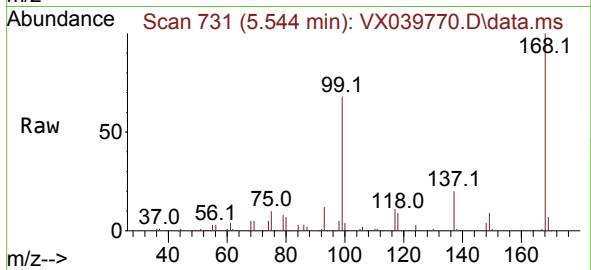
Tgt Ion: 42 Resp: 694  
Ion Ratio Lower Upper  
42 100  
72 7.5 34.2 51.4#  
71 7.6 32.2 48.2#



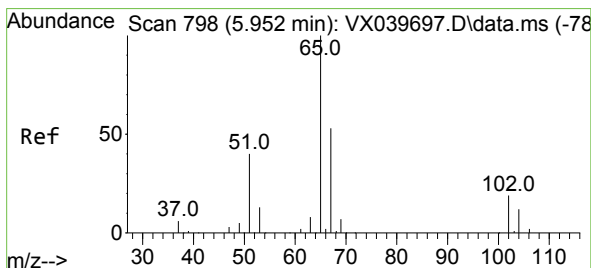
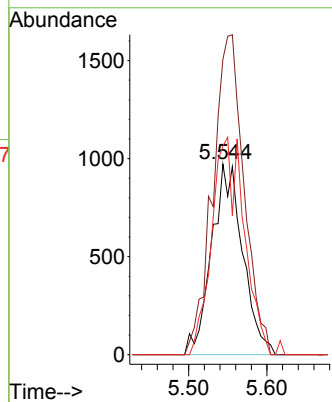
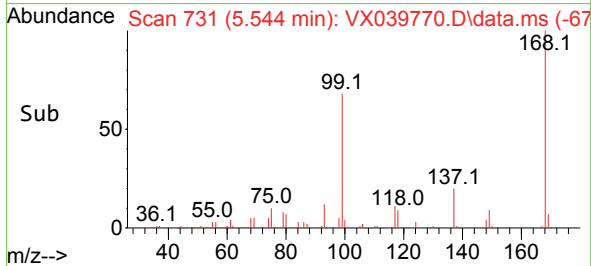


#31  
Cyclohexane  
Concen: 1.201 ug/l  
RT: 5.544 min Scan# 719  
Delta R.T. 0.073 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

Instrument :  
MSVOA\_X  
ClientSampleId :

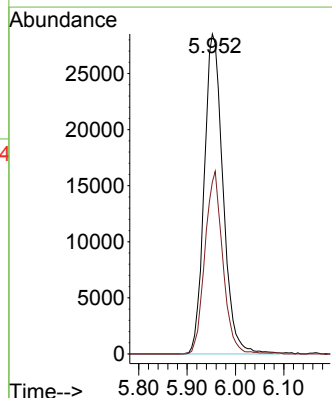
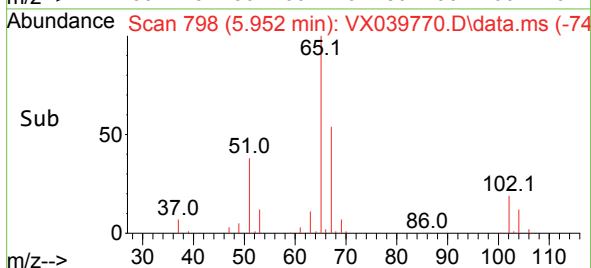
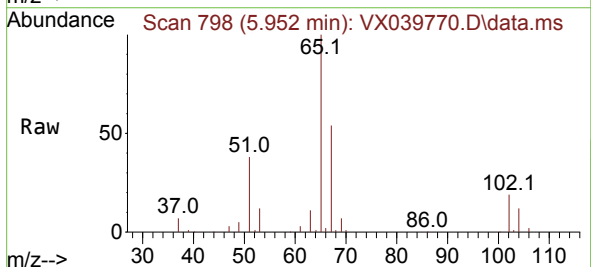


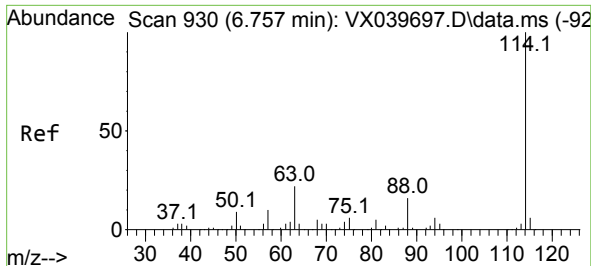
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Ion Ratio Lower Upper  
56 100  
69 155.2 23.4 35.2#  
84 109.5 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 45.400 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

Tgt Ion: 65 Resp: 76865  
Ion Ratio Lower Upper  
65 100  
67 54.4 0.0 100.2

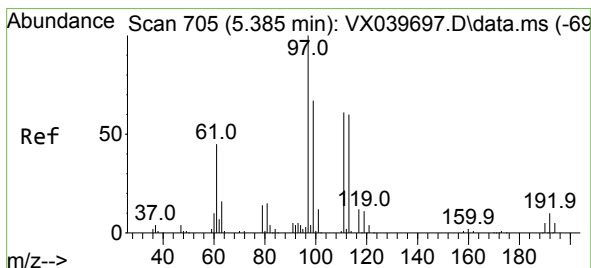
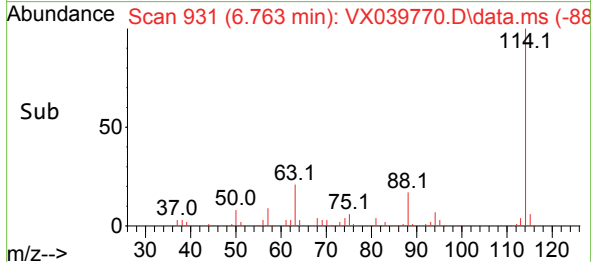
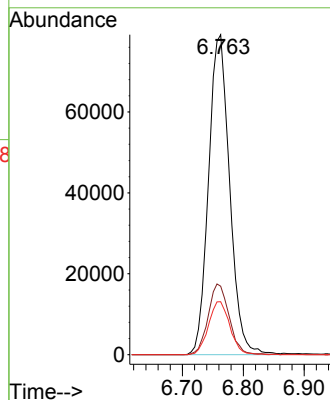
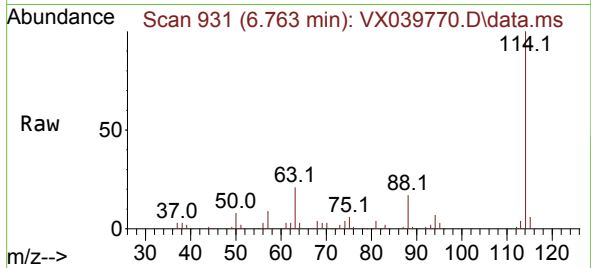




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. 0.006 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

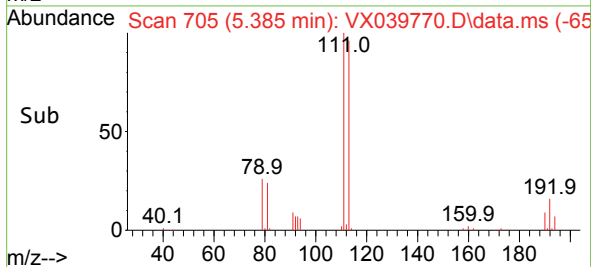
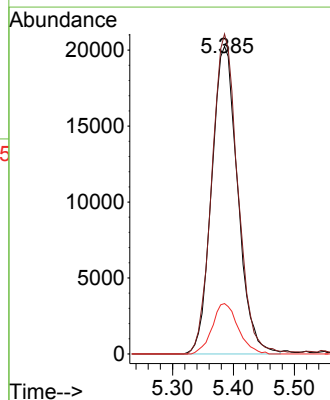
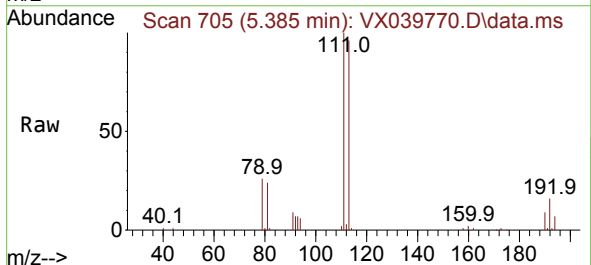
Instrument :  
MSVOA\_X  
ClientSampleId :

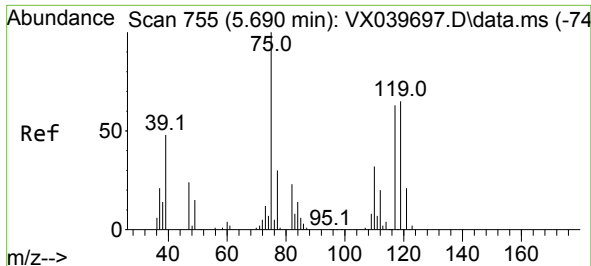
Tgt Ion:114 Resp: 190399  
Ion Ratio Lower Upper  
114 100  
63 21.4 0.0 45.0  
88 16.6 0.0 36.6



#35  
Dibromofluoromethane  
Concen: 46.849 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

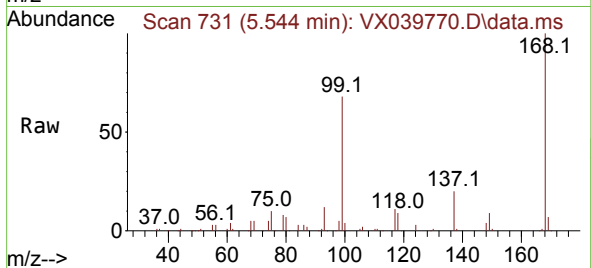
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Ion Ratio Lower Upper  
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192 16.3 13.3 19.9



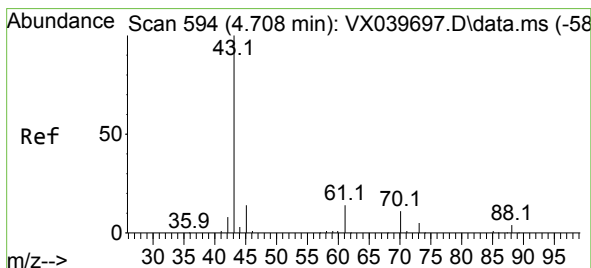
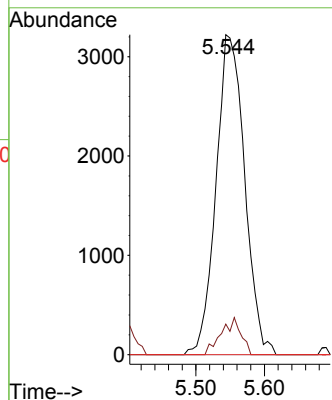
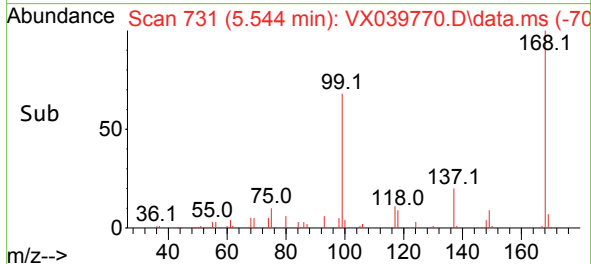


#36  
1,1-Dichloropropene  
Concen: 4.678 ug/l  
RT: 5.544 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

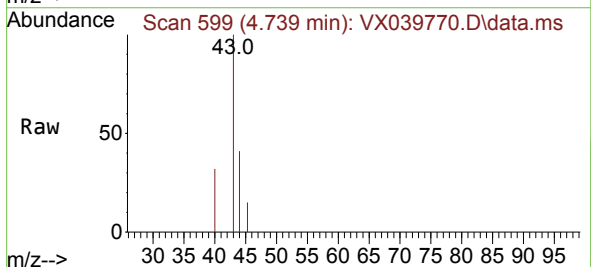
Instrument :  
MSVOA\_X  
ClientSampleId :



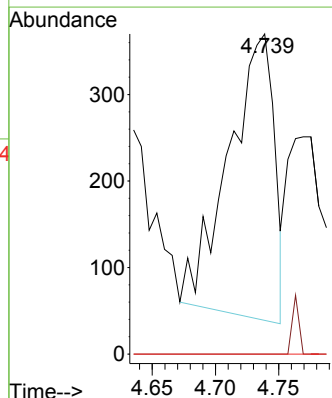
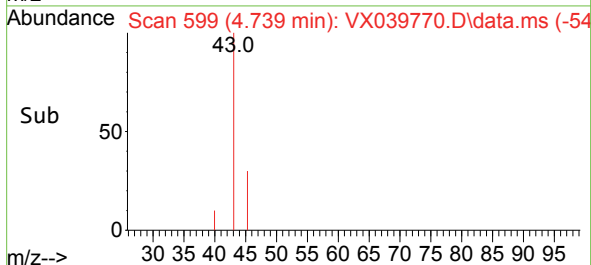
Tgt Ion: 75 Resp: 9337  
Ion Ratio Lower Upper  
75 100  
110 8.0 17.0 50.9#  
77 0.0 24.7 37.1#

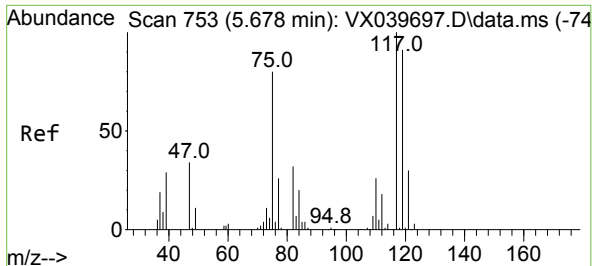


#37  
Ethyl Acetate  
Concen: 0.308 ug/l  
RT: 4.739 min Scan# 599  
Delta R.T. 0.030 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39



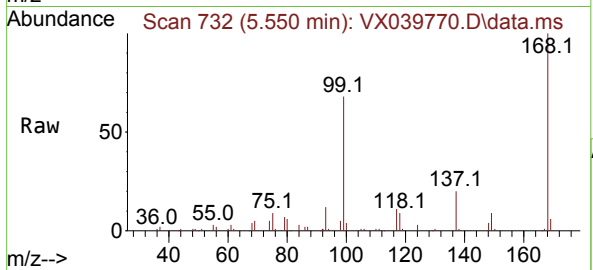
Tgt Ion: 43 Resp: 820  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.6 16.0#  
70 0.0 8.3 12.5#



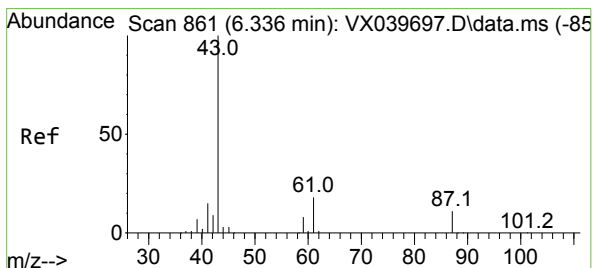
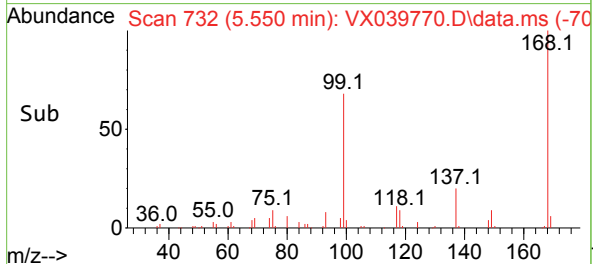
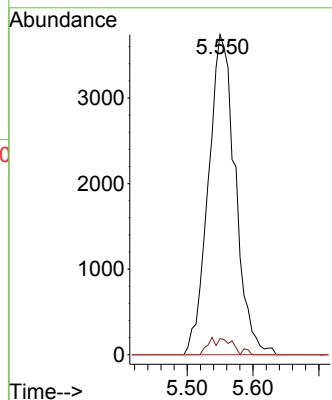


#38  
Carbon Tetrachloride  
Concen: 5.833 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

Instrument :  
MSVOA\_X  
ClientSampleId :

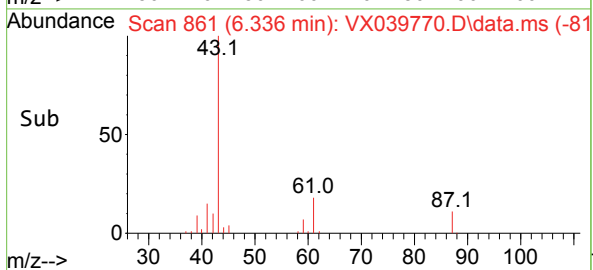
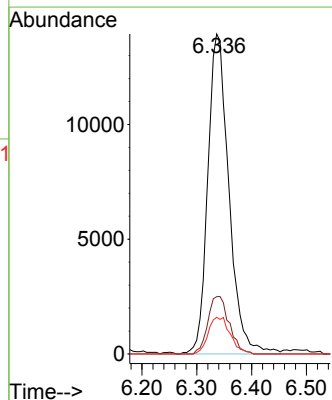
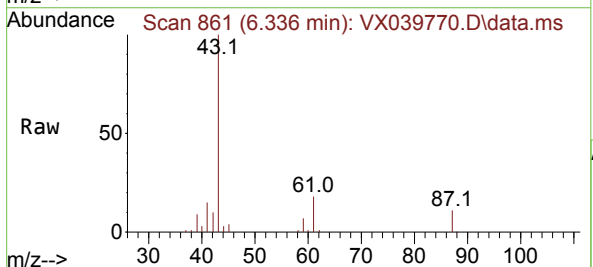


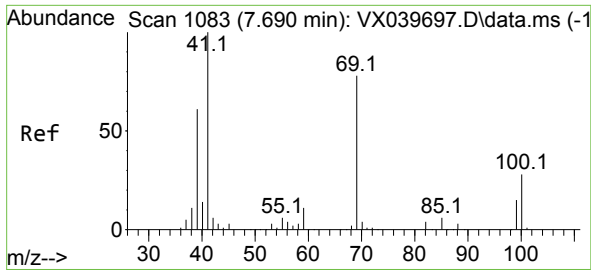
Tgt Ion:117 Resp: 10665  
Ion Ratio Lower Upper  
117 100  
119 5.0 78.2 117.2#  
121 0.0 24.4 36.6#



#43  
Isopropyl Acetate  
Concen: 9.550 ug/l  
RT: 6.336 min Scan# 861  
Delta R.T. 0.000 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

Tgt Ion: 43 Resp: 37306  
Ion Ratio Lower Upper  
43 100  
61 18.0 15.2 22.8  
87 11.9 9.8 14.6





#48

Methyl methacrylate

Concen: 0.892 ug/l

RT: 7.635 min Scan# 1083

Delta R.T. -0.055 min

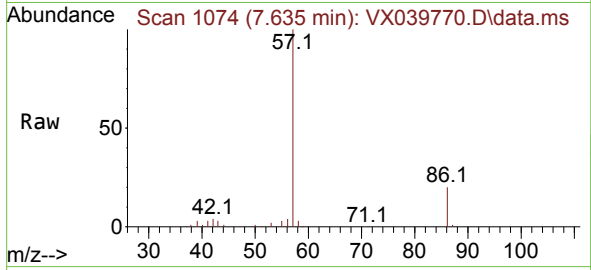
Lab File: VX039770.D

Acq: 16 Jan 2024 13:39

Instrument :

MSVOA\_X

ClientSampleId :



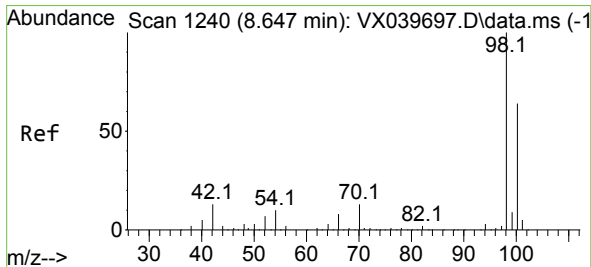
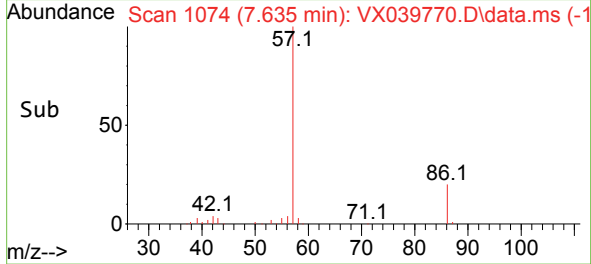
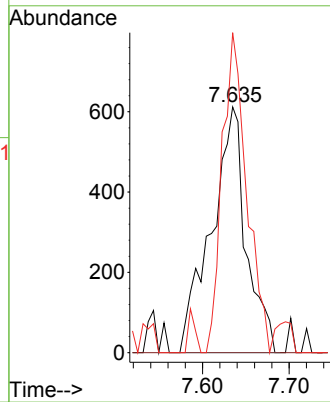
Tgt Ion: 41 Resp: 1712

Ion Ratio Lower Upper

41 100

69 0.0 59.2 88.8#

39 91.8 47.7 71.5#



#50

Toluene-d8

Concen: 49.314 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX039770.D

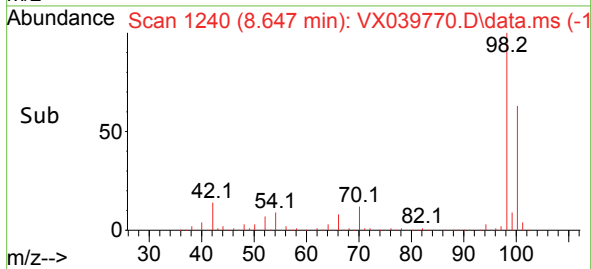
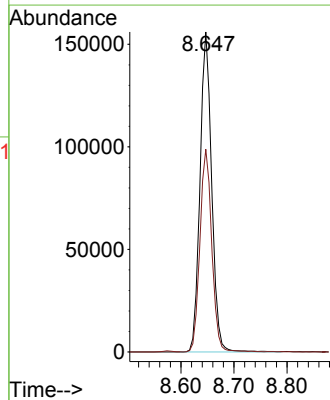
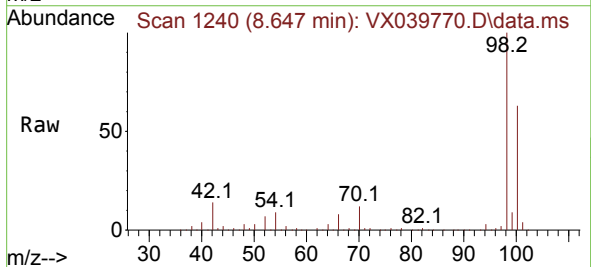
Acq: 16 Jan 2024 13:39

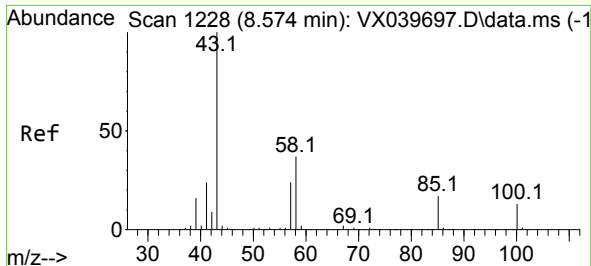
Tgt Ion: 98 Resp: 238518

Ion Ratio Lower Upper

98 100

100 64.5 53.1 79.7

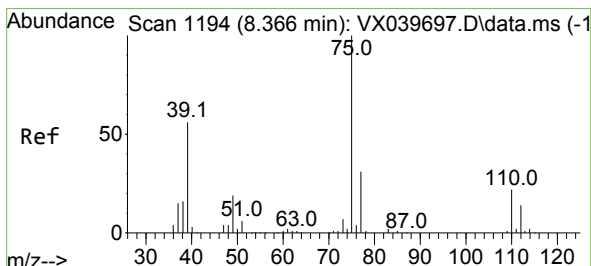
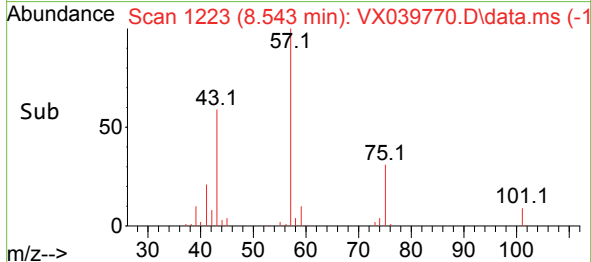
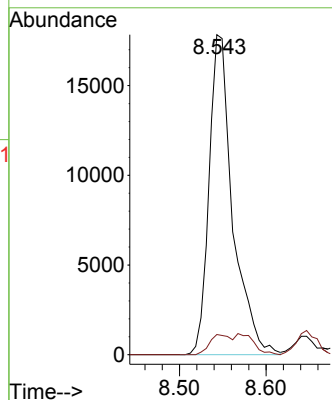
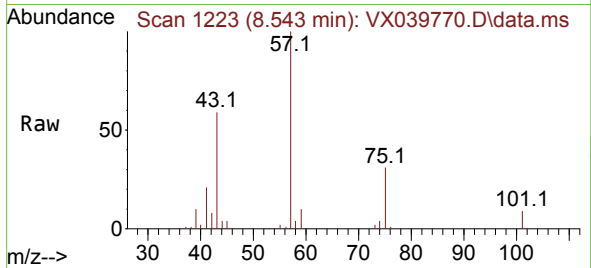




#51  
4-Methyl-2-Pentanone  
Concen: 12.557 ug/l  
RT: 8.543 min Scan# 11  
Delta R.T. -0.030 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

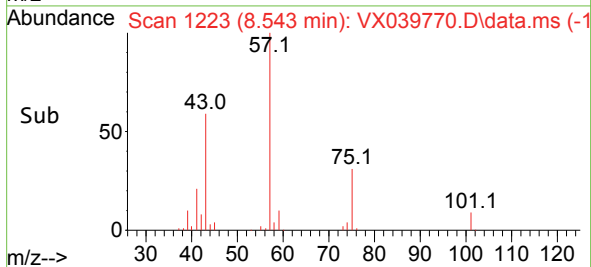
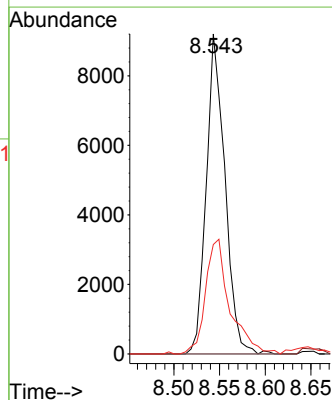
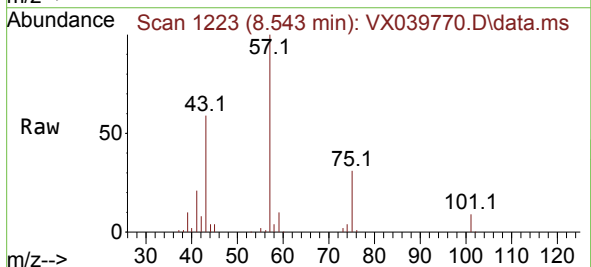
Instrument :  
MSVOA\_X  
ClientSampleId :

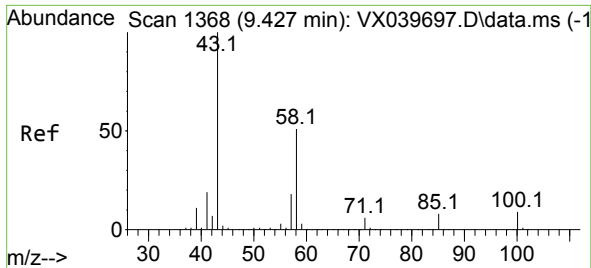
Tgt Ion: 43 Resp: 33784  
Ion Ratio Lower Upper  
43 100  
58 5.8 30.4 45.6#



#54  
cis-1,3-Dichloropropene  
Concen: 5.766 ug/l  
RT: 8.543 min Scan# 1223  
Delta R.T. 0.177 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

Tgt Ion: 75 Resp: 13050  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.3 37.9#  
39 34.2 46.7 70.1#

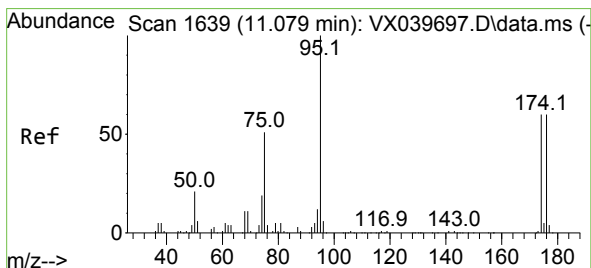
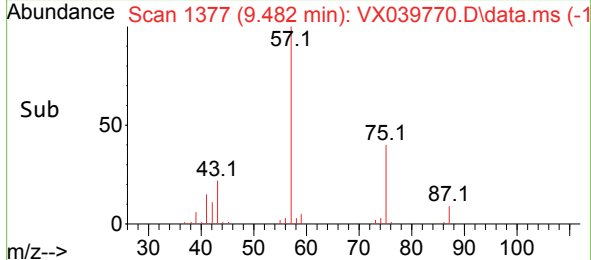
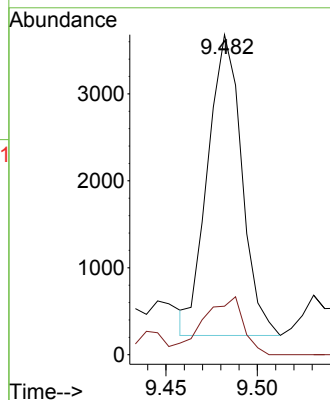
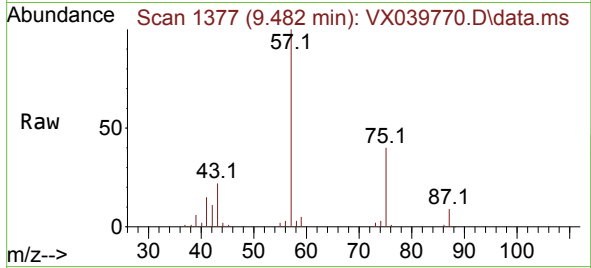




#59  
2-Hexanone  
Concen: 2.112 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.055 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

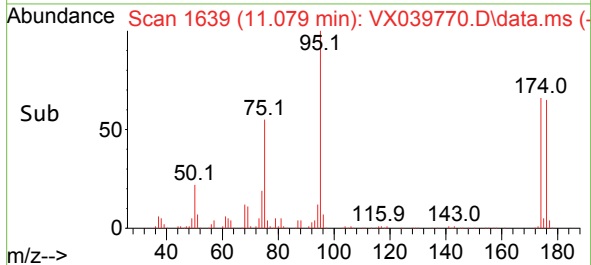
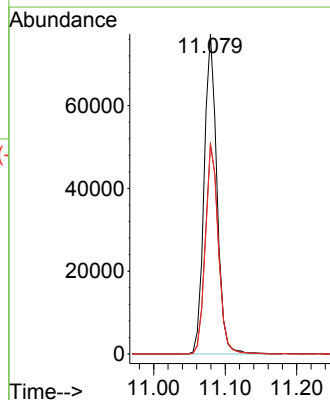
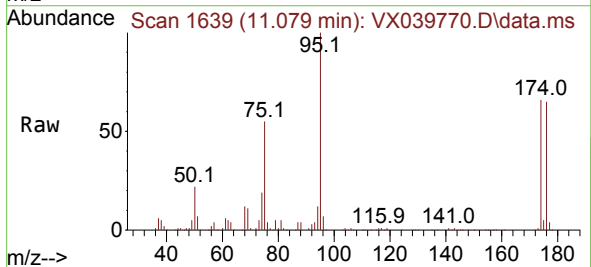
Instrument :  
MSVOA\_X  
ClientSampleId :

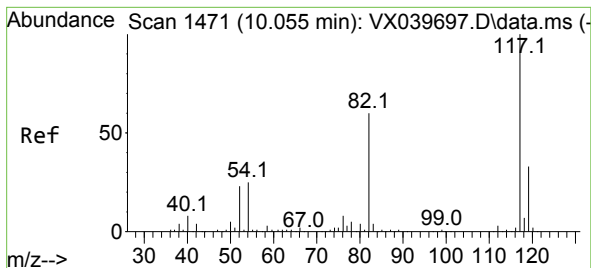
Tgt Ion: 43 Resp: 4498  
Ion Ratio Lower Upper  
43 100  
58 22.8 26.2 78.5#



#62  
4-Bromofluorobenzene  
Concen: 50.693 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX039770.D  
Acq: 16 Jan 2024 13:39

Tgt Ion: 95 Resp: 95880  
Ion Ratio Lower Upper  
95 100  
174 67.7 0.0 135.6  
176 66.3 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: VX039770.D

Acq: 16 Jan 2024 13:39

Instrument :

MSVOA\_X

ClientSampleId :

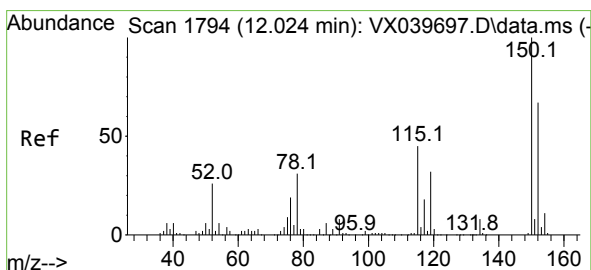
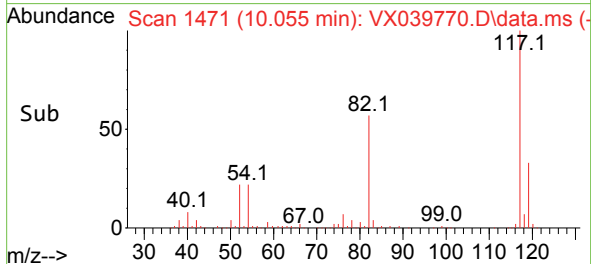
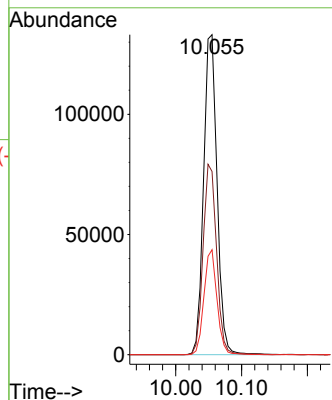
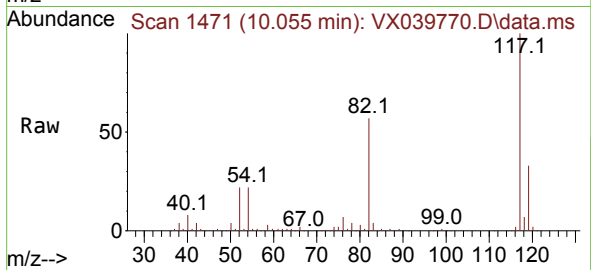
Tgt Ion:117 Resp: 189899

Ion Ratio Lower Upper

117 100

82 57.2 46.2 69.4

119 32.8 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.018 min Scan# 1793

Delta R.T. -0.006 min

Lab File: VX039770.D

Acq: 16 Jan 2024 13:39

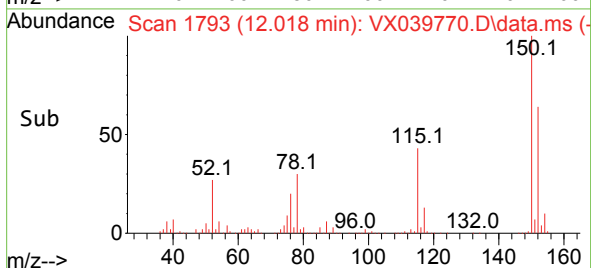
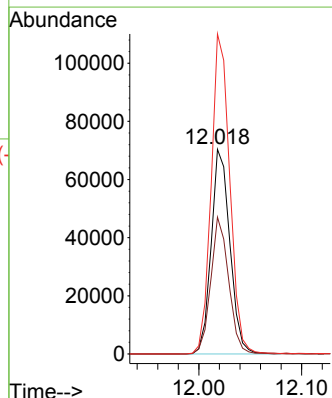
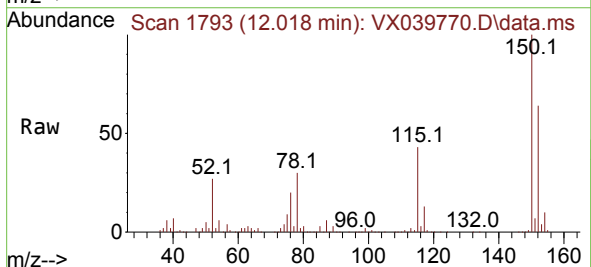
Tgt Ion:152 Resp: 88855

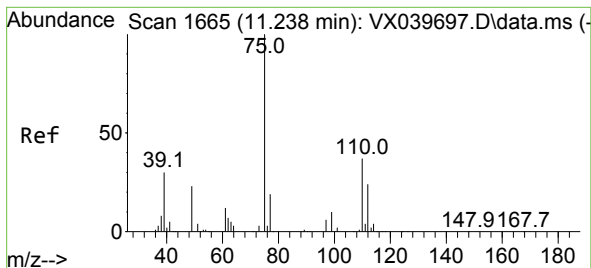
Ion Ratio Lower Upper

152 100

115 64.0 43.3 129.9

150 155.7 0.0 345.0





#76

1,2,3-Trichloropropane

Concen: 22.847 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX039770.D

Acq: 16 Jan 2024 13:39

Instrument :

MSVOA\_X

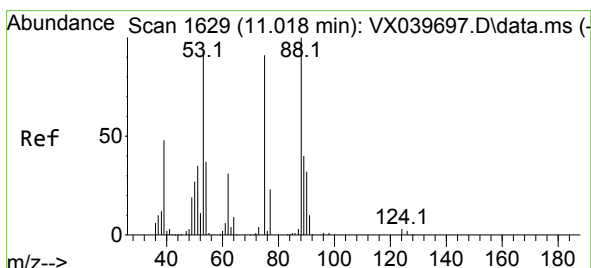
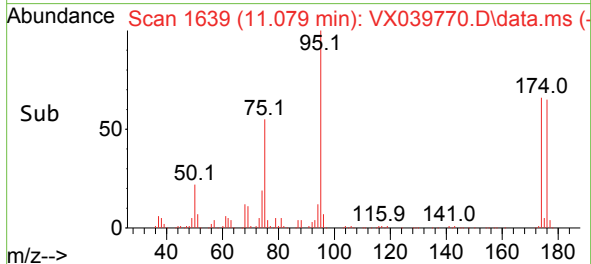
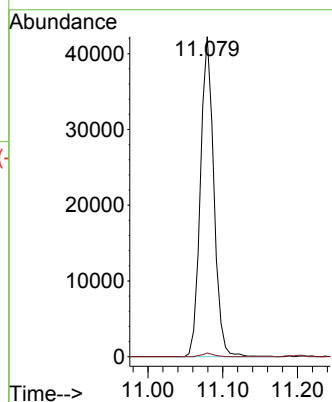
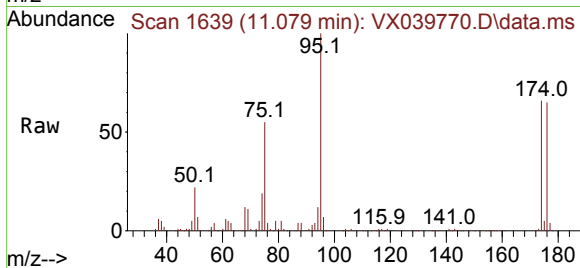
ClientSampleId :

Tgt Ion: 75 Resp: 52632

Ion Ratio Lower Upper

75 100

77 1.0 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 66.025 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX039770.D

Acq: 16 Jan 2024 13:39

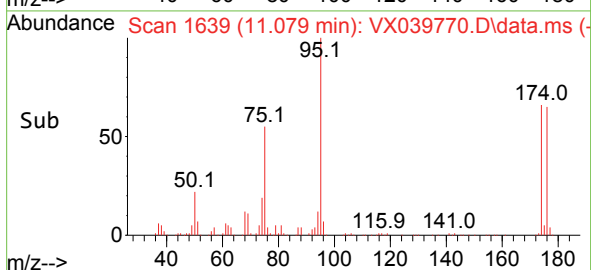
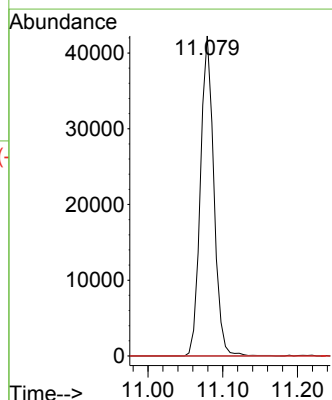
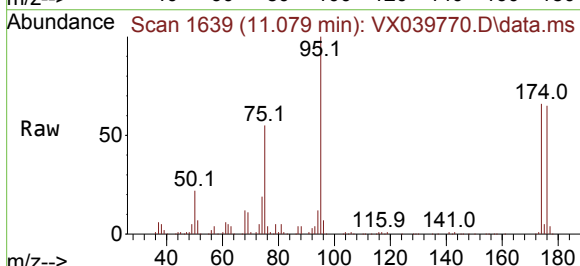
Tgt Ion: 75 Resp: 52632

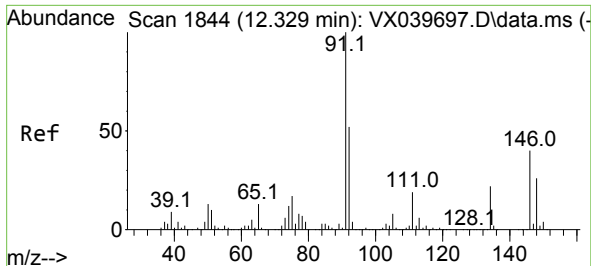
Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.0 36.9 55.3#





#89

n-Butylbenzene

Concen: 0.209 ug/l

RT: 12.335 min Scan# 1845

Delta R.T. 0.006 min

Lab File: VX039770.D

Acq: 16 Jan 2024 13:39

Instrument :

MSVOA\_X

ClientSampleId :

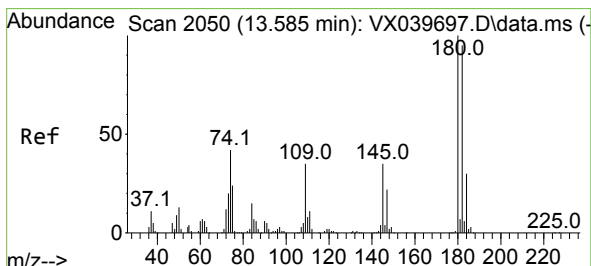
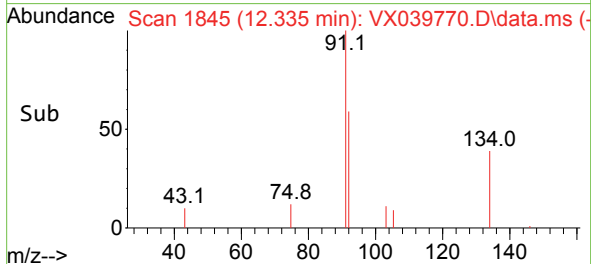
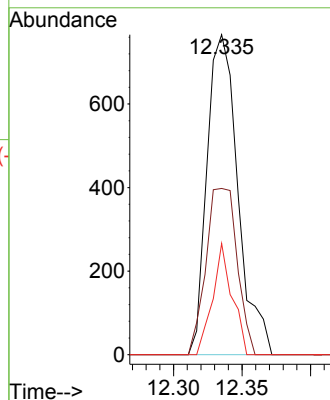
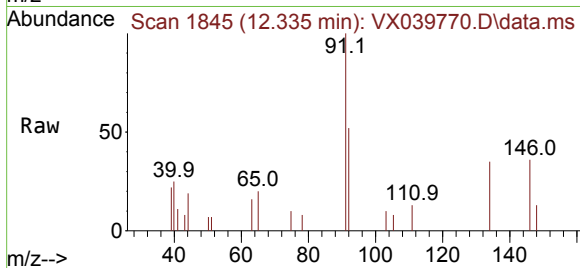
Tgt Ion: 91 Resp: 1199

Ion Ratio Lower Upper

91 100

92 52.5 27.4 82.0

134 21.9 12.6 37.8



#93

1,2,4-Trichlorobenzene

Concen: 0.231 ug/l

RT: 13.591 min Scan# 2051

Delta R.T. 0.006 min

Lab File: VX039770.D

Acq: 16 Jan 2024 13:39

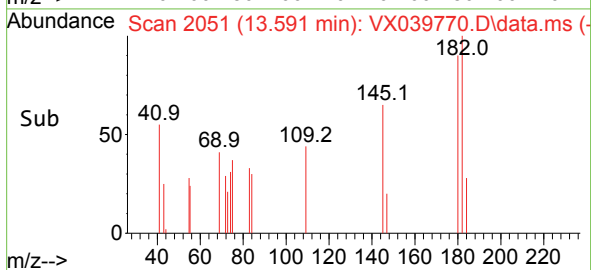
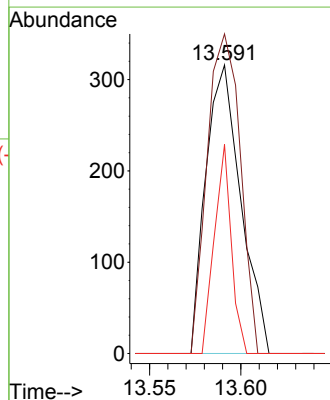
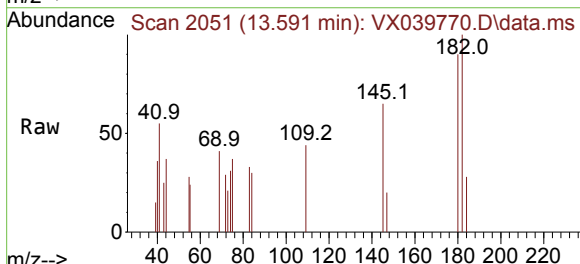
Tgt Ion:180 Resp: 422

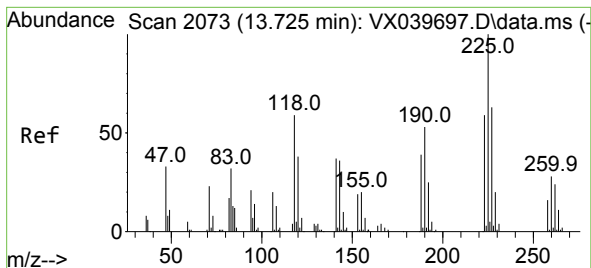
Ion Ratio Lower Upper

180 100

182 104.5 48.3 144.8

145 34.8 18.0 54.0





#94

Hexachlorobutadiene

Concen: 0.367 ug/l

RT: 13.725 min Scan# 2073

Delta R.T. 0.000 min

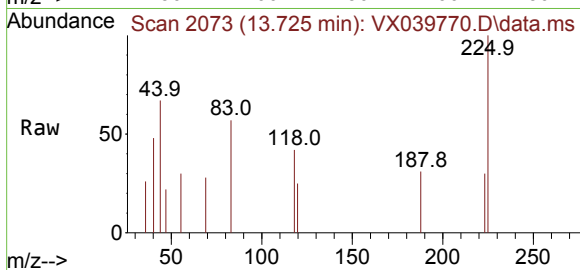
Lab File: VX039770.D

Acq: 16 Jan 2024 13:39

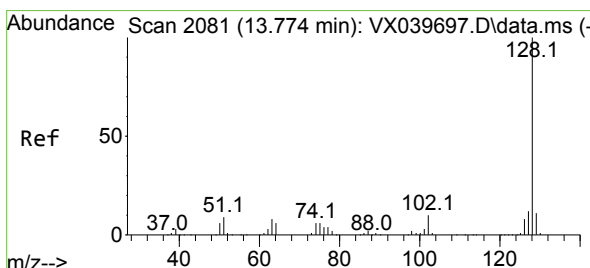
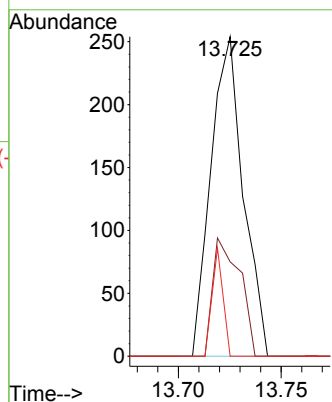
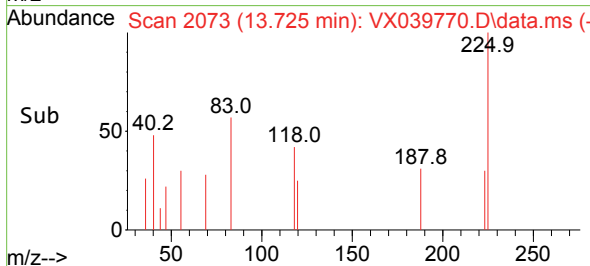
Instrument :

MSVOA\_X

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 278   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 22.3  | 31.1  | 93.2# |
| 227      | 11.2  | 32.5  | 97.5# |



#95

Naphthalene

Concen: 0.227 ug/l

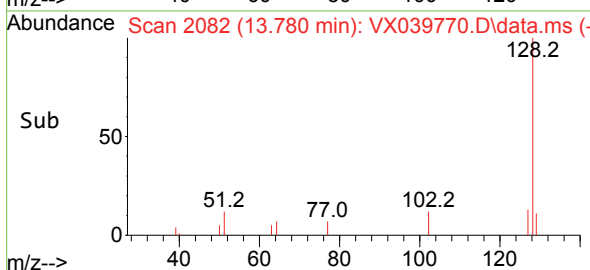
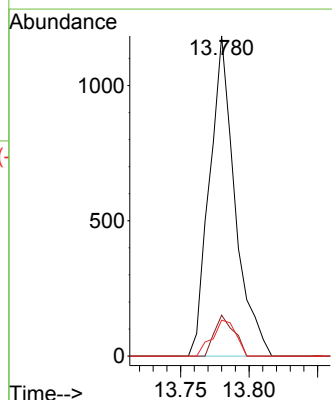
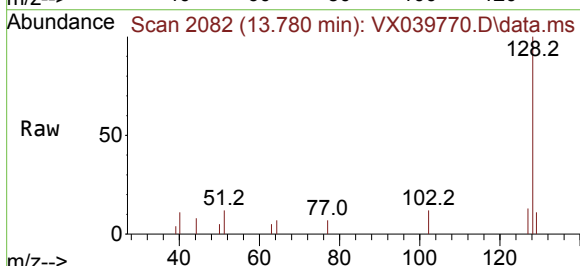
RT: 13.780 min Scan# 2082

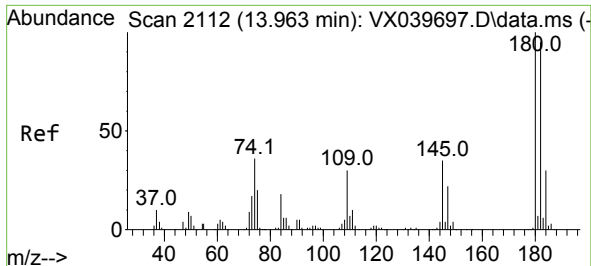
Delta R.T. 0.006 min

Lab File: VX039770.D

Acq: 16 Jan 2024 13:39

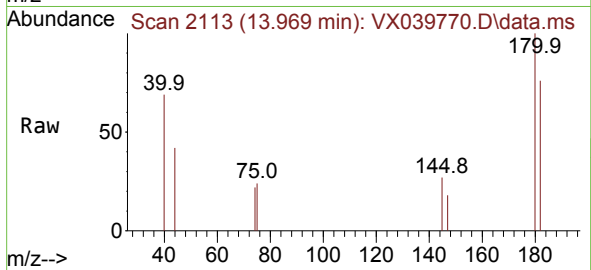
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1525  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 9.9   | 10.3  | 15.5# |
| 129      | 10.5  | 8.8   | 13.2  |





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.237 ug/l  
 RT: 13.969 min Scan# 21  
 Delta R.T. 0.006 min  
 Lab File: VX039770.D  
 Acq: 16 Jan 2024 13:39

Instrument :  
 MSVOA\_X  
 ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 180   | Resp: | 436   |
| Ion      | Ratio | Lower | Upper |
| 180      | 100   |       |       |
| 182      | 103.2 | 46.9  | 140.6 |
| 145      | 33.3  | 17.8  | 53.5  |

