

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX121223\  
 Data File : VX039173.D  
 Acq On : 12 Dec 2023 18:05  
 Operator : JC/MD  
 Sample : 05757-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OF-3

Quant Time: Dec 13 04:19:25 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X111623W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Nov 16 22:59:22 2023  
 Response via : Initial Calibration

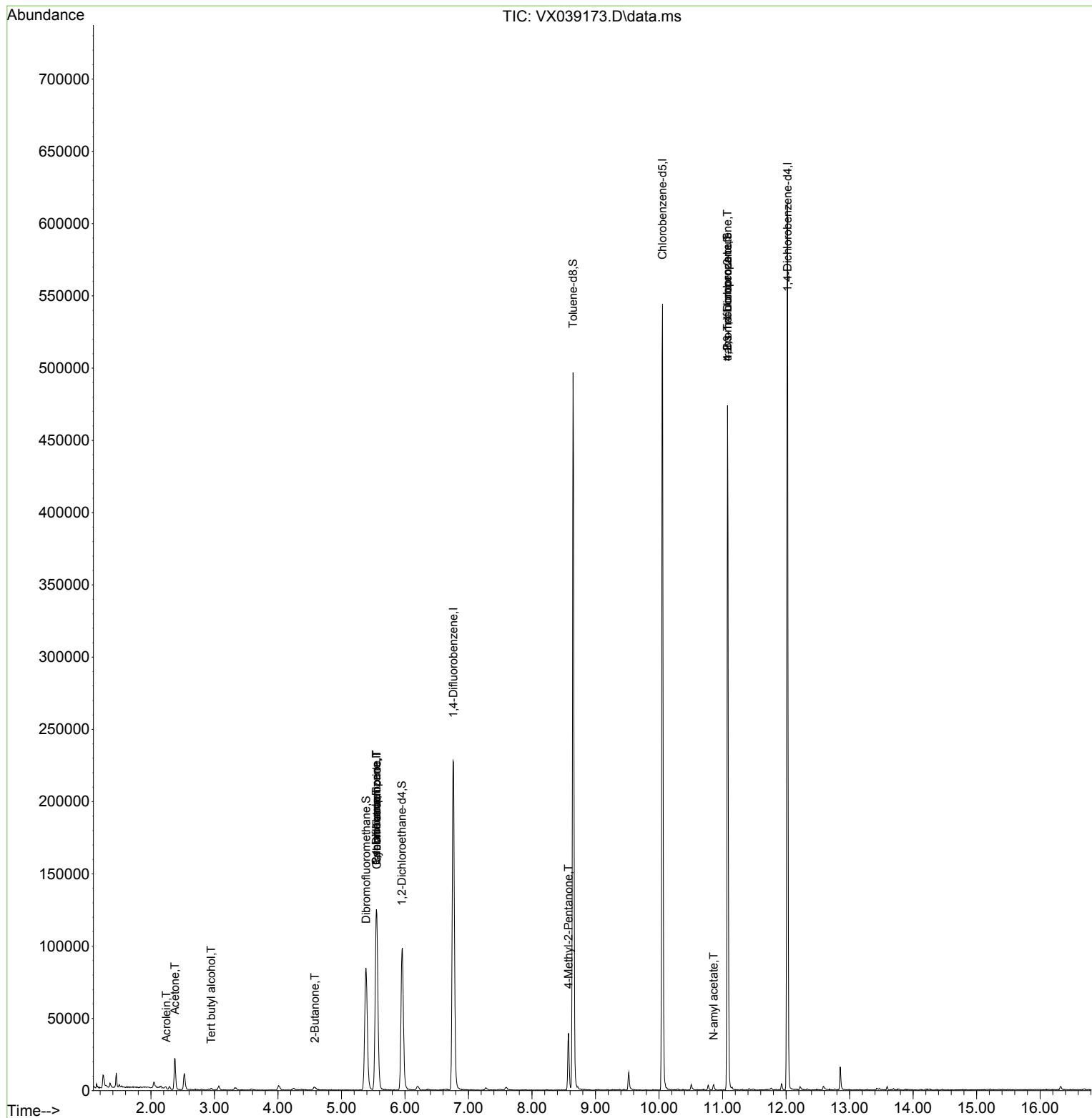
| Compound                      | R.T.   | QIon           | Response | Conc       | Units  | Dev(Min) |
|-------------------------------|--------|----------------|----------|------------|--------|----------|
| -----                         |        |                |          |            |        |          |
| Internal Standards            |        |                |          |            |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168            | 110346   | 50.000     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114            | 224953   | 50.000     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117            | 232356   | 50.000     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152            | 115772   | 50.000     | ug/l   | 0.00     |
| System Monitoring Compounds   |        |                |          |            |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65             | 97058    | 54.587     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 78 - 117 | Recovery | = 109.180% |        |          |
| 35) Dibromofluoromethane      | 5.385  | 113            | 74680    | 45.966     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | = 91.940%  |        |          |
| 50) Toluene-d8                | 8.647  | 98             | 284128   | 45.709     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 92 - 112 | Recovery | = 91.420%# |        |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95             | 130568   | 52.472     | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | = 104.940% |        |          |
| Target Compounds              |        |                |          |            |        |          |
|                               |        |                |          |            | Qvalue |          |
| 11) Tert butyl alcohol        | 2.946  | 59             | 720      | 1.456      | ug/l # | 87       |
| 13) Acrolein                  | 2.239  | 56             | 1076     | 4.113      | ug/l   | 88       |
| 16) Acetone                   | 2.379  | 43             | 23217    | 24.529     | ug/l   | 97       |
| 25) 2-Butanone                | 4.580  | 43             | 4309     | 2.807      | ug/l   | 96       |
| 31) Cyclohexane               | 5.550  | 56             | 3085     | 1.215      | ug/l # | 2        |
| 36) 1,1-Dichloropropene       | 5.550  | 75             | 10616    | 4.559      | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.556  | 117            | 12853    | 5.972      | ug/l # | 16       |
| 51) 4-Methyl-2-Pentanone      | 8.573  | 43             | 23860    | 7.701      | ug/l   | 98       |
| 74) N-amyl acetate            | 10.860 | 43             | 976      | 0.205      | ug/l # | 51       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75             | 71121    | 24.622     | ug/l # | 38       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75             | 71121    | 54.615     | ug/l # | 5        |
| -----                         |        |                |          |            |        |          |

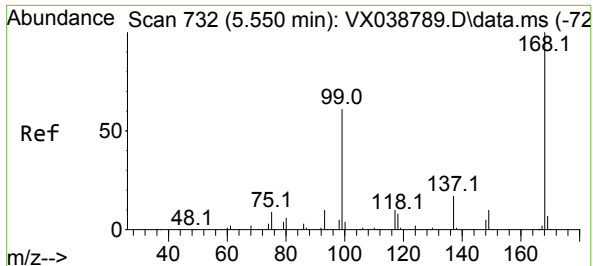
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Nov 16 22:59:22 2023  
Response via : Initial Calibration

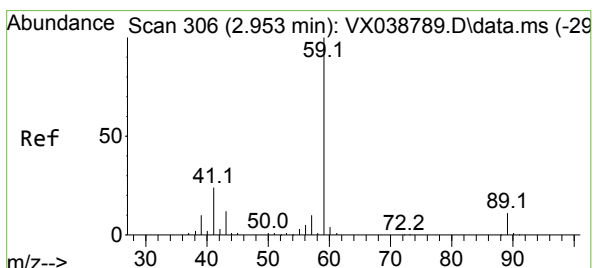
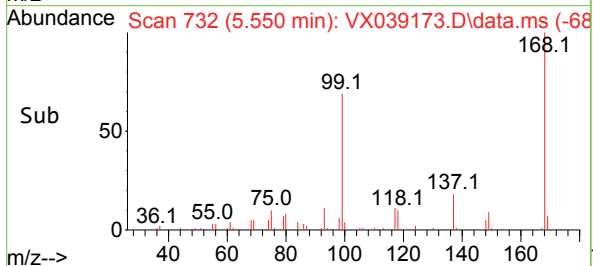
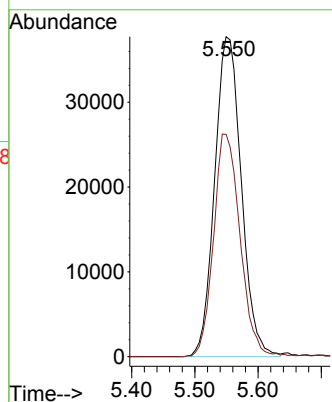
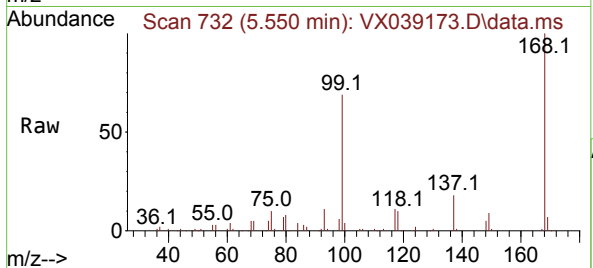




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

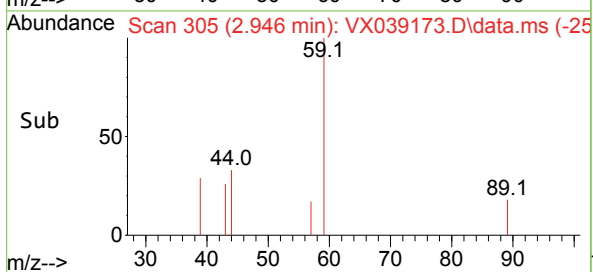
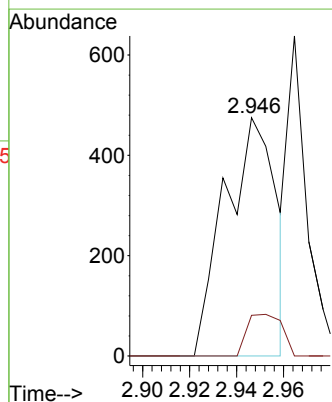
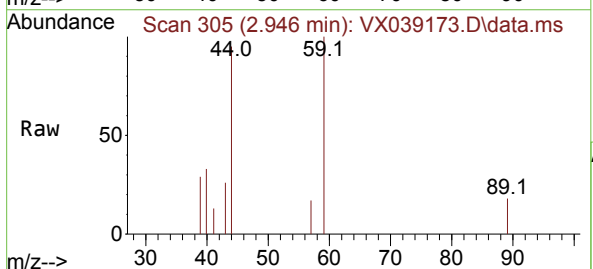
Instrument :  
MSVOA\_X  
ClientSampleId :  
OF-3

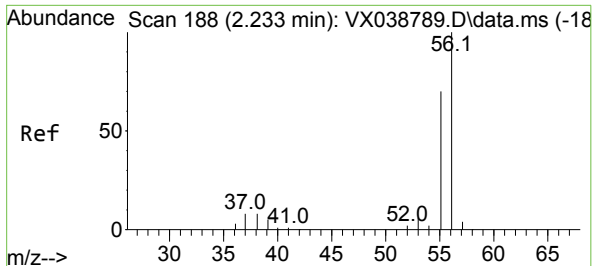
Tgt Ion:168 Resp: 110346  
Ion Ratio Lower Upper  
168 100  
99 69.5 56.6 85.0



#11  
Tert butyl alcohol  
Concen: 1.456 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. -0.006 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

Tgt Ion: 59 Resp: 720  
Ion Ratio Lower Upper  
59 100  
57 11.9 6.0 9.0#

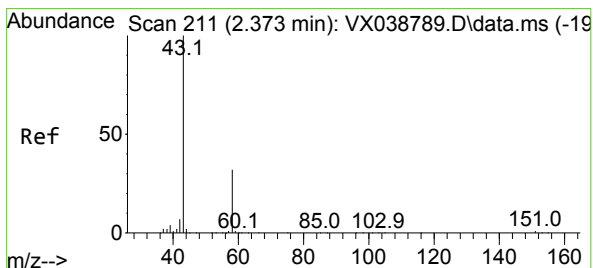
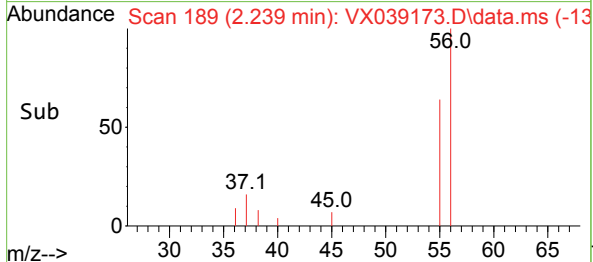
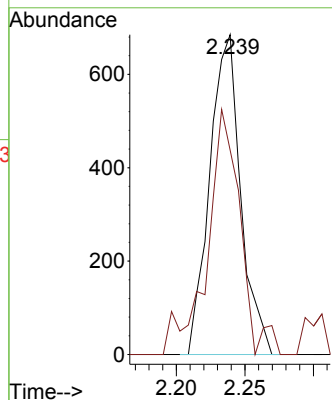
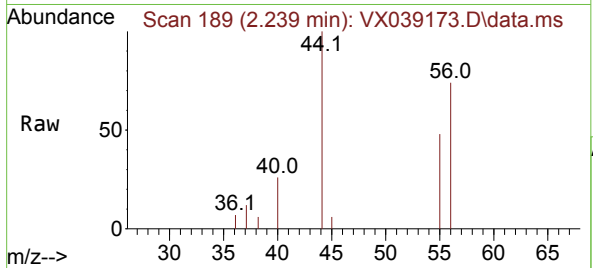




#13  
Acrolein  
Concen: 4.113 ug/l  
RT: 2.239 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

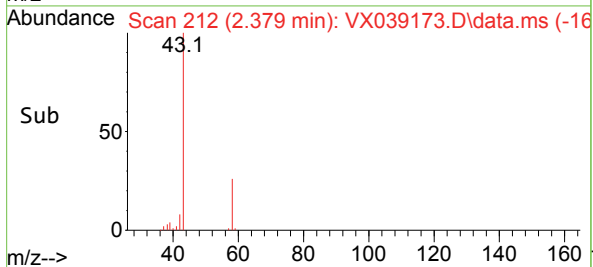
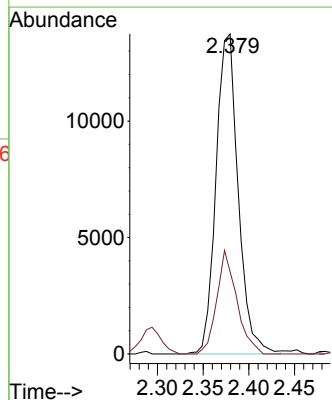
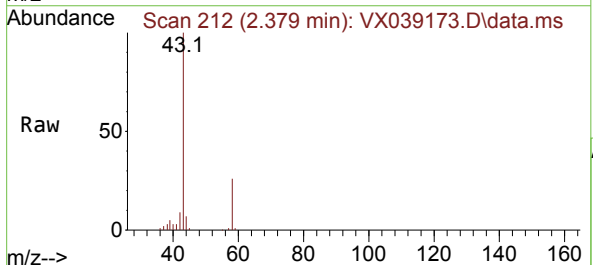
Instrument :  
MSVOA\_X  
ClientSampleId :  
OF-3

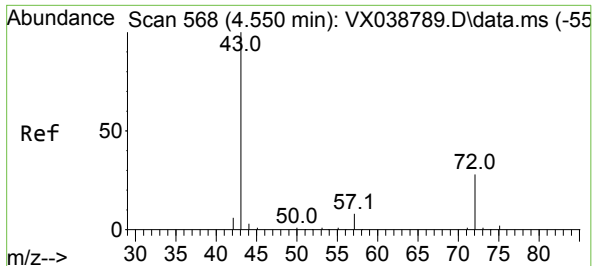
Tgt Ion: 56 Resp: 1076  
Ion Ratio Lower Upper  
56 100  
55 81.5 57.1 85.7



#16  
Acetone  
Concen: 24.529 ug/l  
RT: 2.379 min Scan# 212  
Delta R.T. 0.006 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

Tgt Ion: 43 Resp: 23217  
Ion Ratio Lower Upper  
43 100  
58 25.6 21.9 32.9





#25

2-Butanone

Concen: 2.807 ug/l

RT: 4.580 min Scan# 51

Delta R.T. 0.030 min

Lab File: VX039173.D

Acq: 12 Dec 2023 18:05

Instrument :

MSVOA\_X

ClientSampleId :

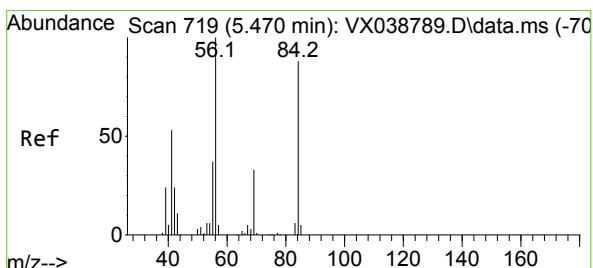
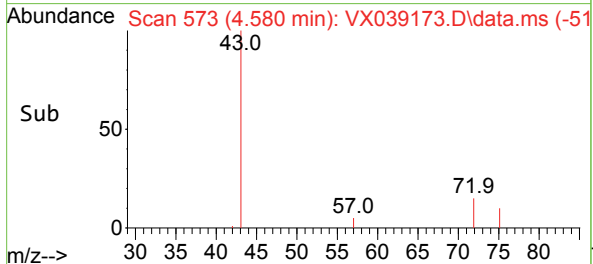
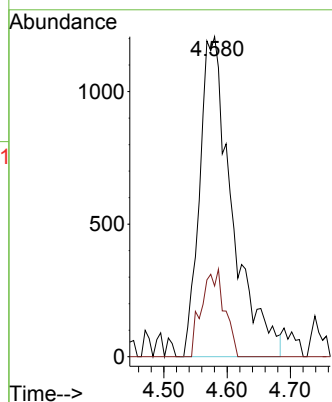
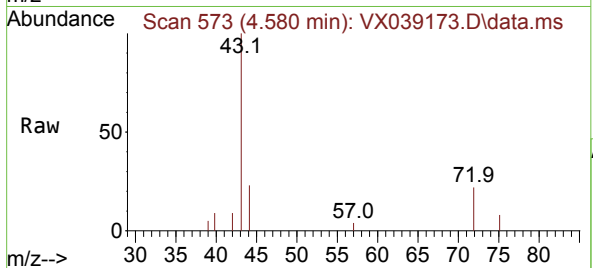
OF-3

Tgt Ion: 43 Resp: 4309

Ion Ratio Lower Upper

43 100

72 22.1 19.4 29.2



#31

Cyclohexane

Concen: 1.215 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX039173.D

Acq: 12 Dec 2023 18:05

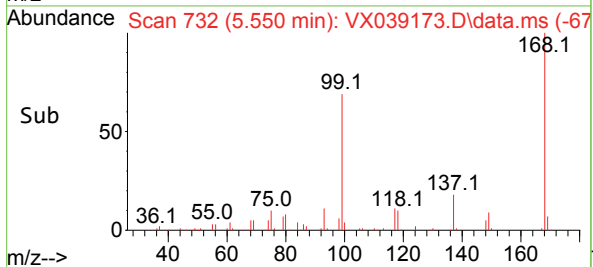
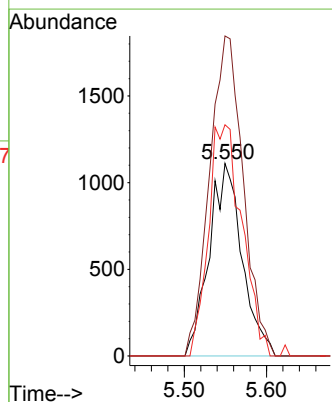
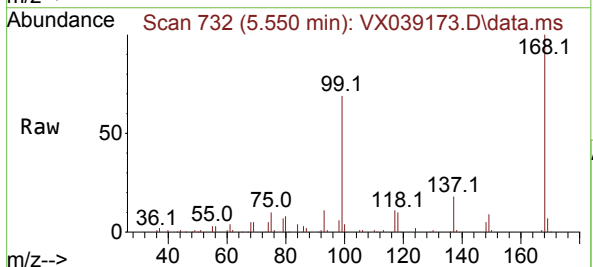
Tgt Ion: 56 Resp: 3085

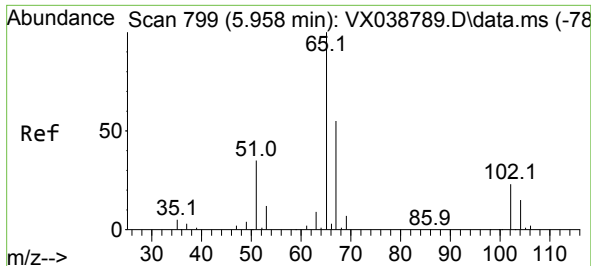
Ion Ratio Lower Upper

56 100

69 166.2 23.4 35.2#

84 120.1 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 54.587 ug/l

RT: 5.952 min Scan# 799

Delta R.T. -0.006 min

Lab File: VX039173.D

Acq: 12 Dec 2023 18:05

Instrument :

MSVOA\_X

ClientSampleId :

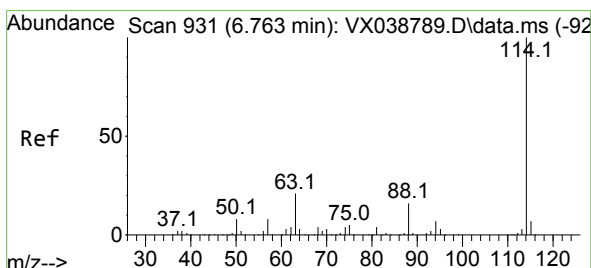
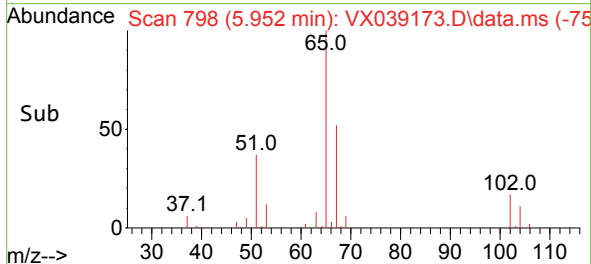
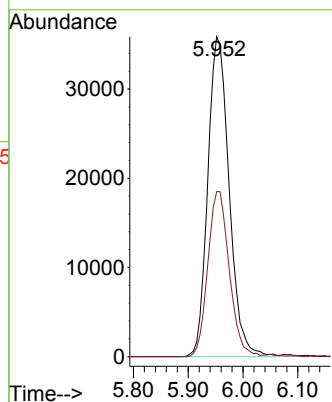
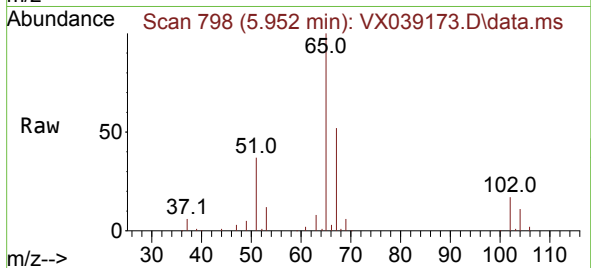
OF-3

Tgt Ion: 65 Resp: 97058

Ion Ratio Lower Upper

65 100

67 51.8 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: VX039173.D

Acq: 12 Dec 2023 18:05

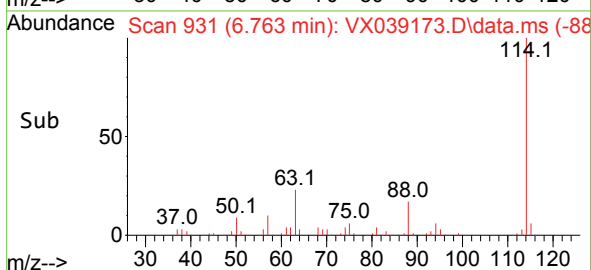
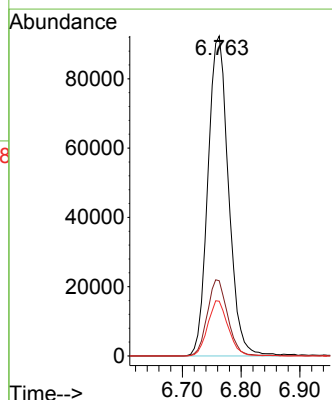
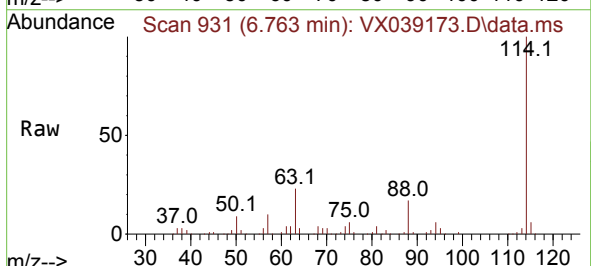
Tgt Ion:114 Resp: 224953

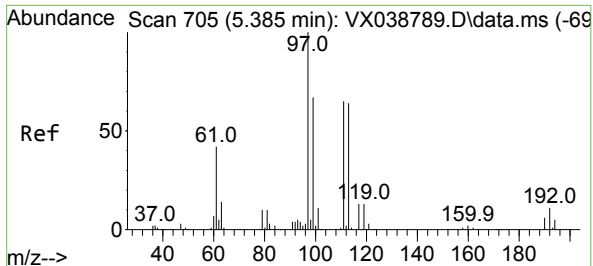
Ion Ratio Lower Upper

114 100

63 23.5 0.0 45.0

88 17.1 0.0 36.6

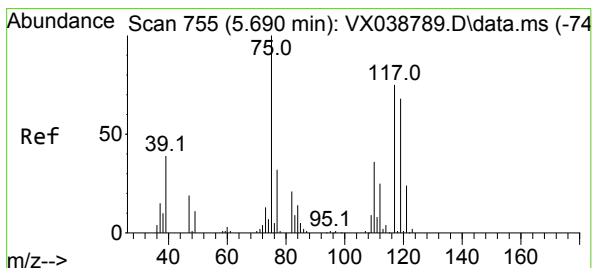
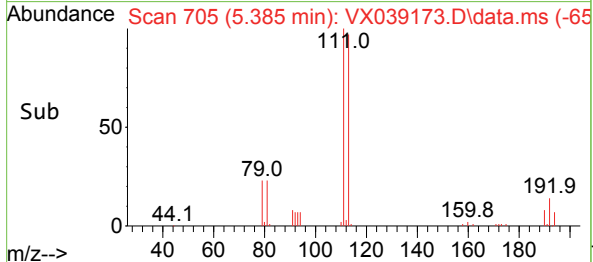
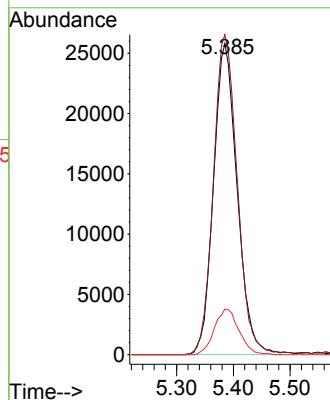
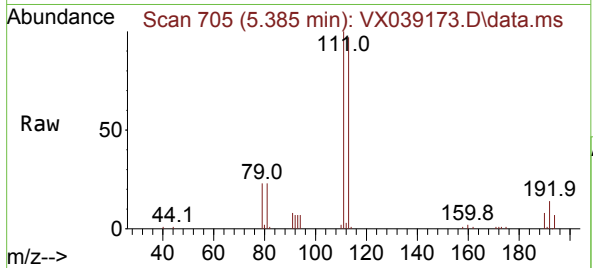




#35  
Dibromofluoromethane  
Concen: 45.966 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

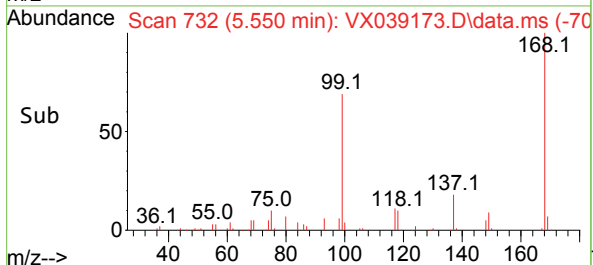
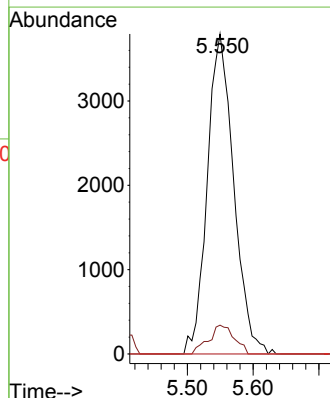
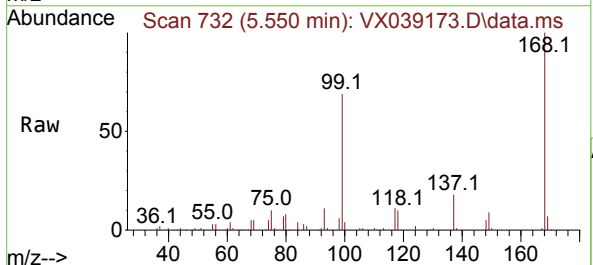
Instrument :  
MSVOA\_X  
ClientSampleId :  
OF-3

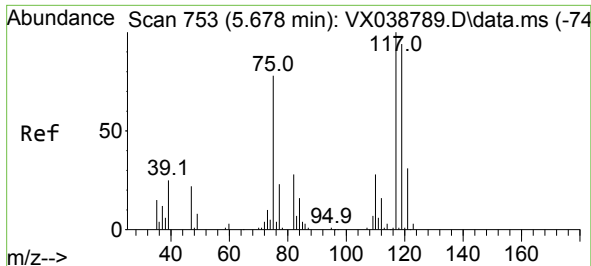
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Ion Ratio Lower Upper  
113 100  
111 104.2 82.9 124.3  
192 15.3 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.559 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

Tgt Ion: 75 Resp: 10616  
Ion Ratio Lower Upper  
75 100  
110 8.7 17.0 50.9#  
77 0.0 24.7 37.1#

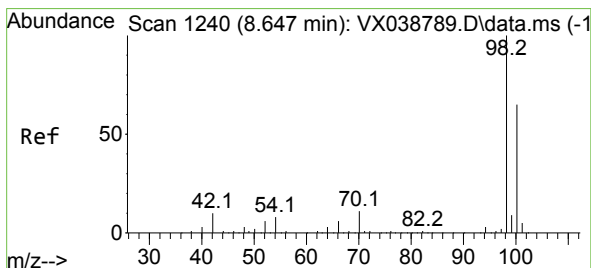
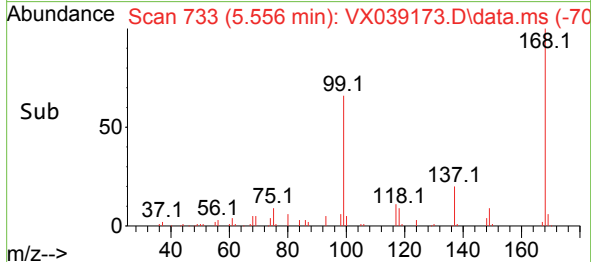
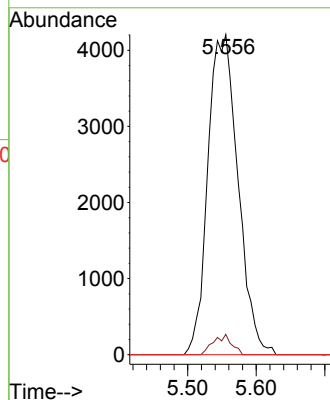
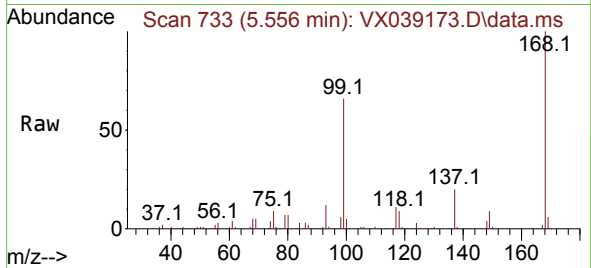




#38  
Carbon Tetrachloride  
Concen: 5.972 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

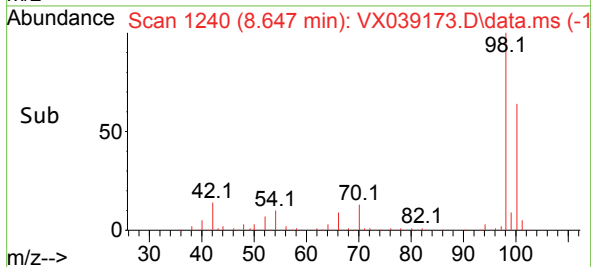
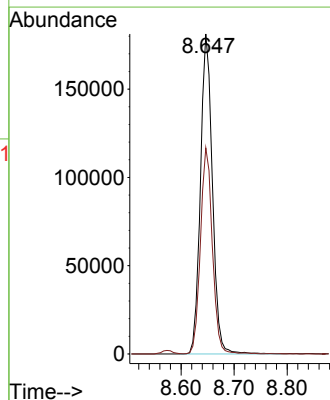
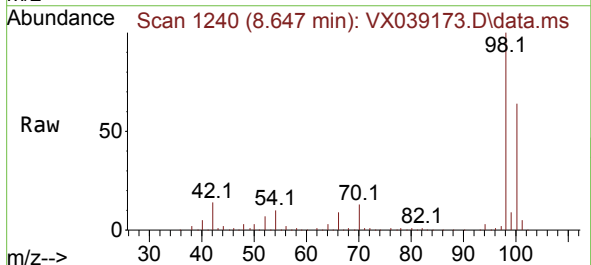
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ClientSampleId :  
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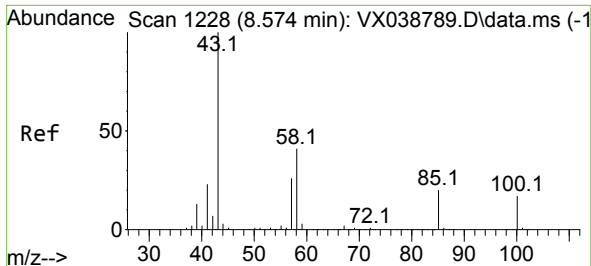
Tgt Ion:117 Resp: 12853  
Ion Ratio Lower Upper  
117 100  
119 6.4 78.2 117.2#  
121 0.0 24.4 36.6#



#50  
Toluene-d8  
Concen: 45.709 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. -0.000 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

Tgt Ion: 98 Resp: 284128  
Ion Ratio Lower Upper  
98 100  
100 64.1 53.1 79.7

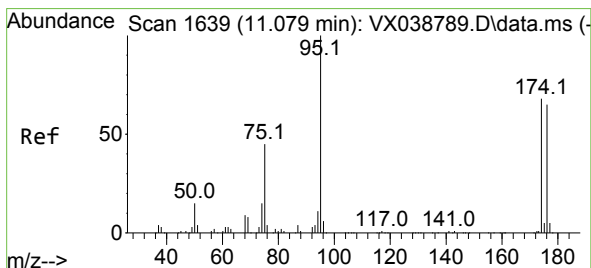
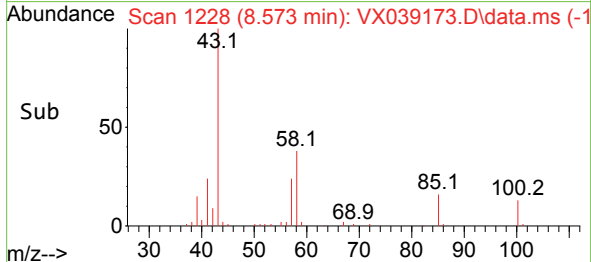
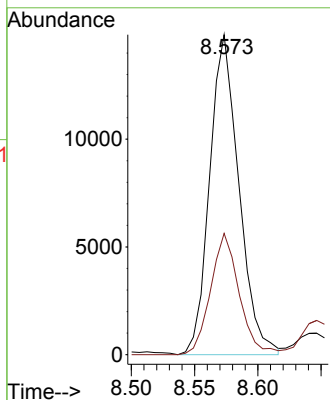
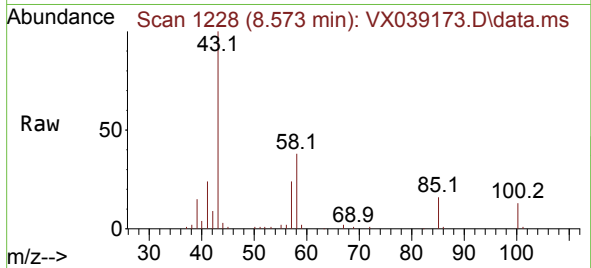




#51  
4-Methyl-2-Pentanone  
Concen: 7.701 ug/l  
RT: 8.573 min Scan# 1133  
Delta R.T. -0.000 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

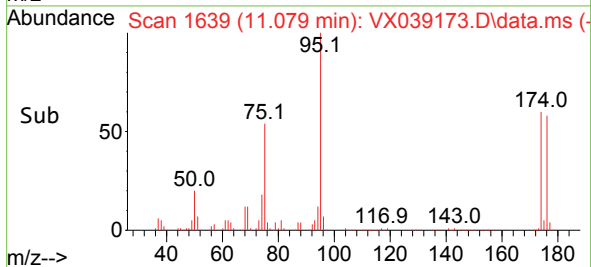
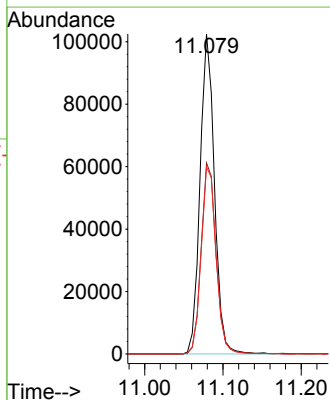
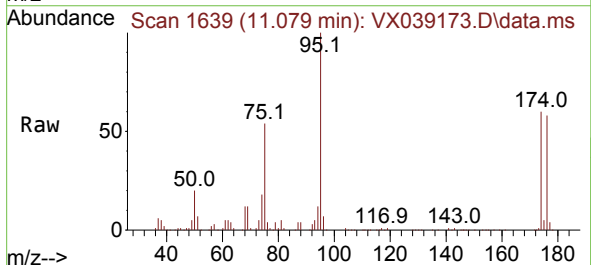
Instrument :  
MSVOA\_X  
ClientSampleId :  
OF-3

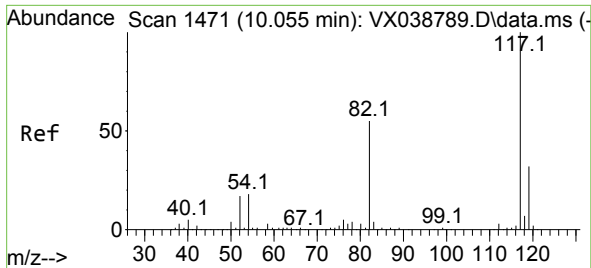
Tgt Ion: 43 Resp: 23860  
Ion Ratio Lower Upper  
43 100  
58 37.0 30.4 45.6



#62  
4-Bromofluorobenzene  
Concen: 52.472 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.000 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

Tgt Ion: 95 Resp: 130568  
Ion Ratio Lower Upper  
95 100  
174 62.0 0.0 135.6  
176 60.5 0.0 131.0

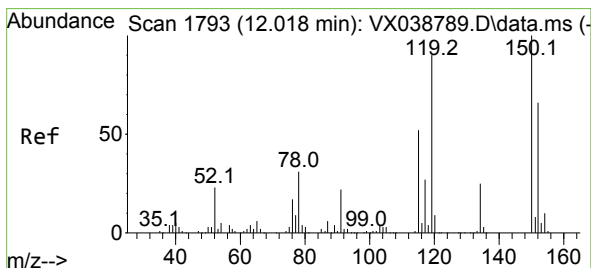
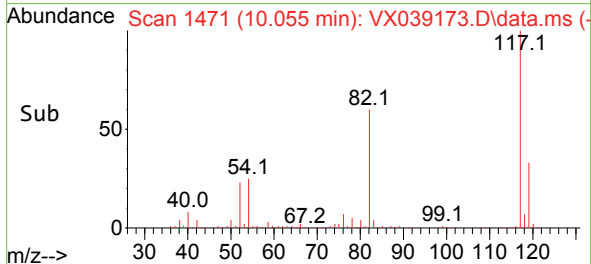
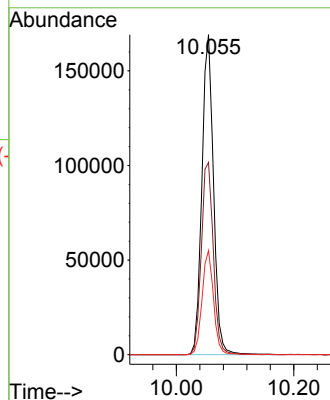
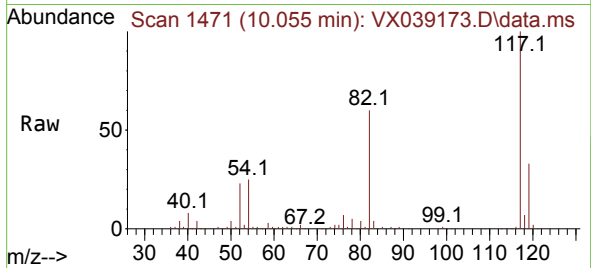




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

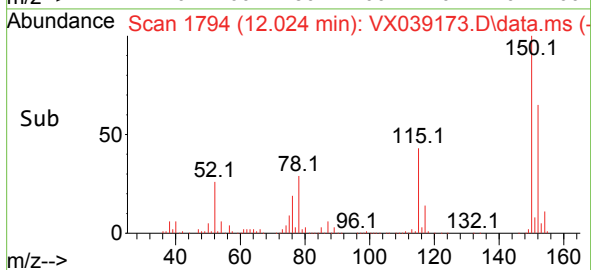
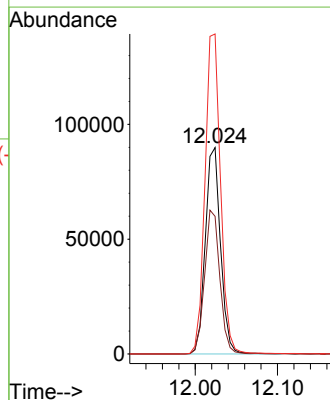
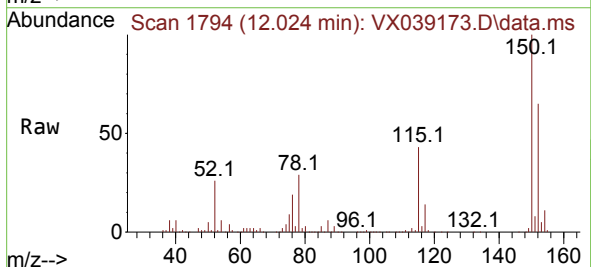
Instrument :  
MSVOA\_X  
ClientSampleId :  
OF-3

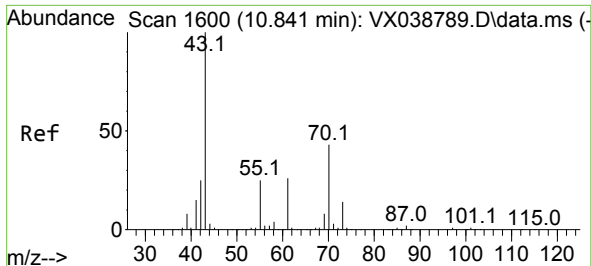
Tgt Ion:117 Resp: 232356  
Ion Ratio Lower Upper  
117 100  
82 60.1 46.2 69.4  
119 32.6 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1794  
Delta R.T. 0.006 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

Tgt Ion:152 Resp: 115772  
Ion Ratio Lower Upper  
152 100  
115 69.5 43.3 129.9  
150 158.2 0.0 345.0

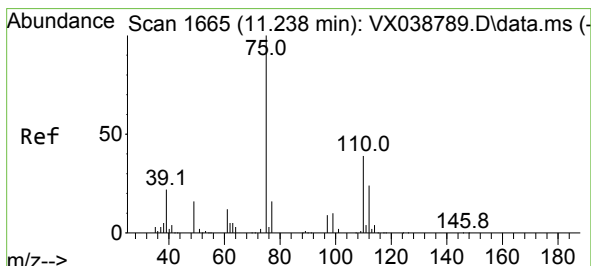
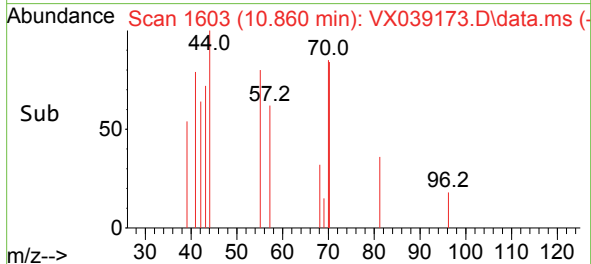
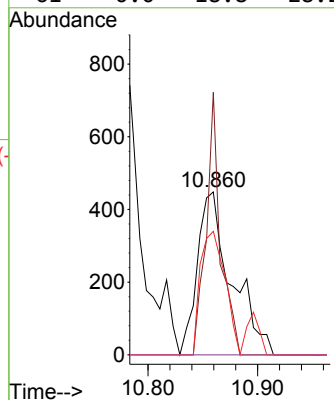
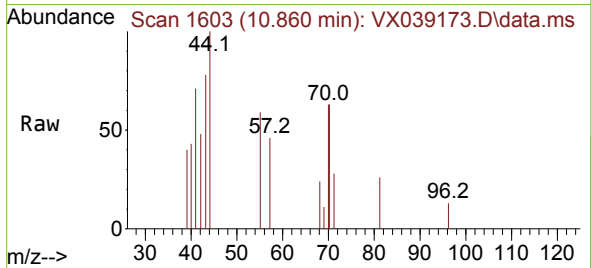




#74  
N-amy1 acetate  
Concen: 0.205 ug/l  
RT: 10.860 min Scan# 1603  
Delta R.T. 0.018 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

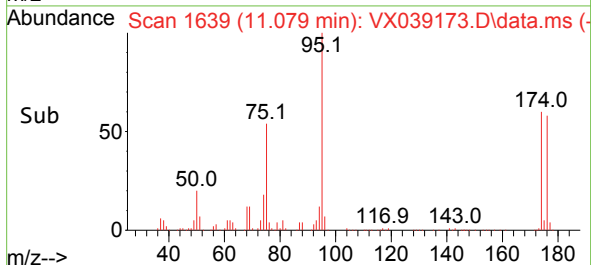
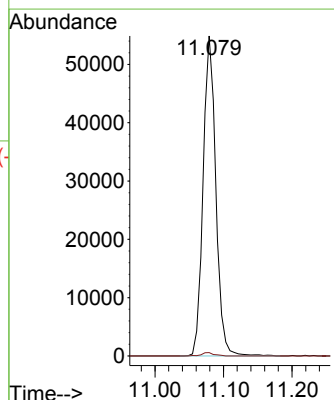
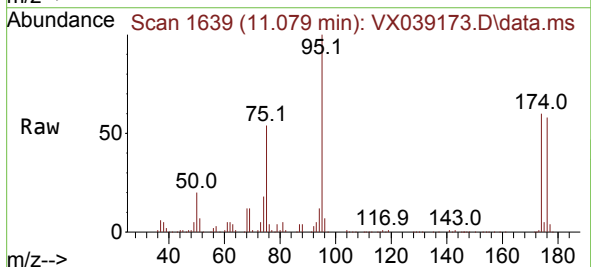
Instrument :  
MSVOA\_X  
ClientSampleId :  
OF-3

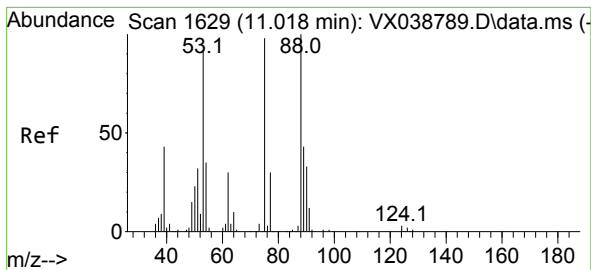
|             |                 |
|-------------|-----------------|
| Tgt Ion: 43 | Resp: 976       |
| Ion Ratio   | Lower Upper     |
| 43          | 100             |
| 70          | 67.0 32.9 49.3# |
| 55          | 54.7 19.3 28.9# |
| 61          | 0.0 18.8 28.2#  |



#76  
1,2,3-Trichloropropane  
Concen: 24.622 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX039173.D  
Acq: 12 Dec 2023 18:05

|             |                |
|-------------|----------------|
| Tgt Ion: 75 | Resp: 71121    |
| Ion Ratio   | Lower Upper    |
| 75          | 100            |
| 77          | 1.0 19.1 57.5# |





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 54.615 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX039173.D  
 Acq: 12 Dec 2023 18:05

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 OF-3

Tgt Ion: 75 Resp: 71121  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

