

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX090723\  
 Data File : VX037585.D  
 Acq On : 07 Sep 2023 17:53  
 Operator : JC/MD  
 Sample : 04326-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

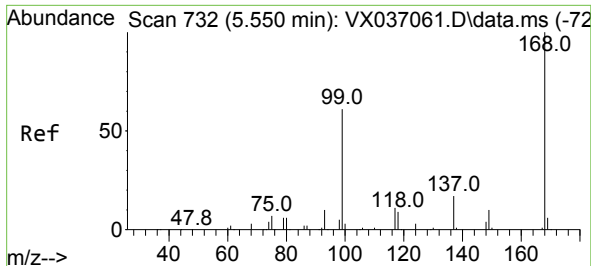
Quant Time: Sep 08 00:48:04 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Aug 18 09:30:38 2023  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 148309   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 248094   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 220210   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 91557    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 86680    | 40.540   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 81.080%  |
| 35) Dibromofluoromethane      | 5.391  | 113   | 78856    | 47.993   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 95.980%  |
| 50) Toluene-d8                | 8.653  | 98    | 279501   | 46.896   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 93.800%  |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 101158   | 43.189   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 86.380%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 2) Dichlorodifluoromethane    | 1.142  | 85    | 417      | 0.242    | ug/l   | 96       |
| 4) Vinyl Chloride             | 1.373  | 62    | 1308     | 0.797    | ug/l   | 97       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.318  | 101   | 482      | 0.307    | ug/l # | 25       |
| 11) Tert butyl alcohol        | 3.093  | 59    | 1011     | 2.016    | ug/l # | 78       |
| 12) 1,1-Dichloroethene        | 2.318  | 96    | 193846   | 126.971  | ug/l # | 79       |
| 16) Acetone                   | 2.385  | 43    | 3021     | 3.612    | ug/l # | 79       |
| 21) trans-1,2-Dichloroethene  | 3.093  | 96    | 23072    | 13.294   | ug/l   | 85       |
| 24) 1,1-Dichloroethane        | 3.611  | 63    | 22516    | 7.405    | ug/l   | 96       |
| 25) 2-Butanone                | 4.592  | 43    | 724      | 0.575    | ug/l # | 51       |
| 27) cis-1,2-Dichloroethene    | 4.489  | 96    | 184200   | 90.030   | ug/l   | 77       |
| 29) Tetrahydrofuran           | 5.031  | 42    | 572      | 0.712    | ug/l # | 37       |
| 31) Cyclohexane               | 5.549  | 56    | 2453     | 1.020    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.549  | 75    | 11064    | 4.740    | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.592  | 43    | 724      | 0.304    | ug/l # | 69       |
| 38) Carbon Tetrachloride      | 5.549  | 117   | 15139    | 5.970    | ug/l # | 16       |
| 40) Benzene                   | 6.049  | 78    | 2664     | 0.398    | ug/l   | 99       |
| 42) 1,2-Dichloroethane        | 6.098  | 62    | 13009    | 4.955    | ug/l   | 94       |
| 44) Trichloroethene           | 7.128  | 130   | 39939    | 21.038   | ug/l   | 98       |
| 49) 1,4-Dioxane               | 7.665  | 88    | 5309     | 106.773  | ug/l # | 84       |
| 51) 4-Methyl-2-Pentanone      | 8.653  | 43    | 938      | 0.408    | ug/l # | 1        |
| 52) Toluene                   | 8.726  | 92    | 7536     | 1.704    | ug/l   | 92       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 47594    | 24.409   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 47594    | 68.175   | ug/l # | 5        |
| -----                         |        |       |          |          |        |          |

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

Quant Time: Sep 08 00:48:04 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X081723W.M  
Quant Title : SW846 8260  
QLast Update : Fri Aug 18 09:30:38 2023  
Response via : Initial Calibration

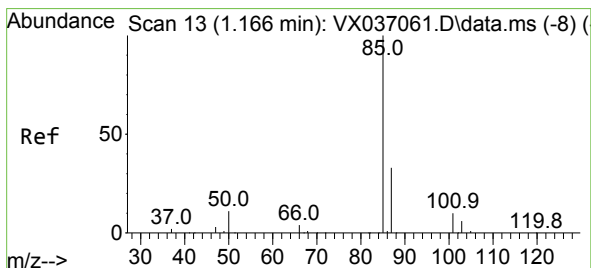
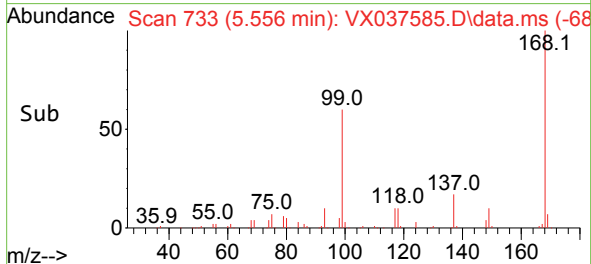
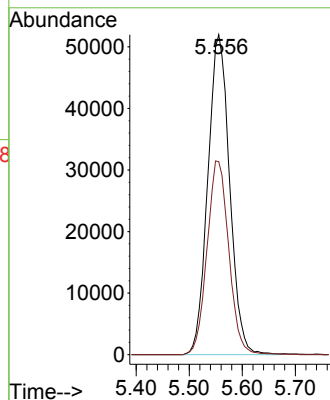
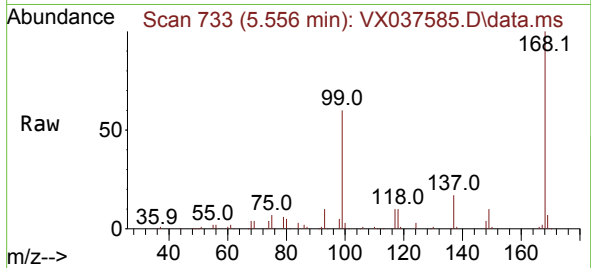




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

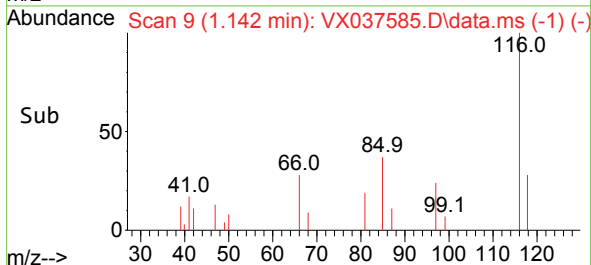
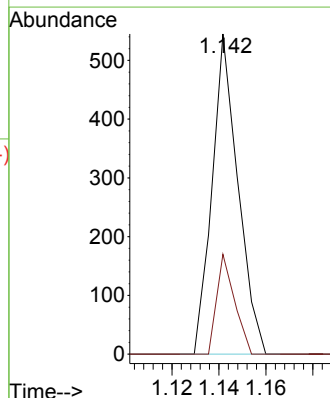
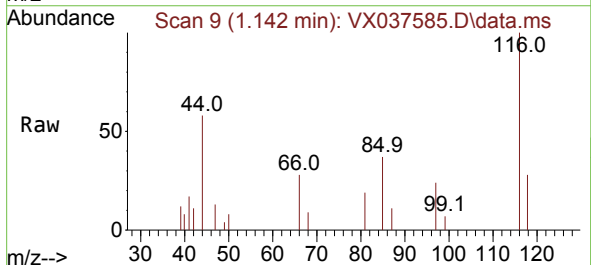
Instrument :  
MSVOA\_X  
ClientSampleId :

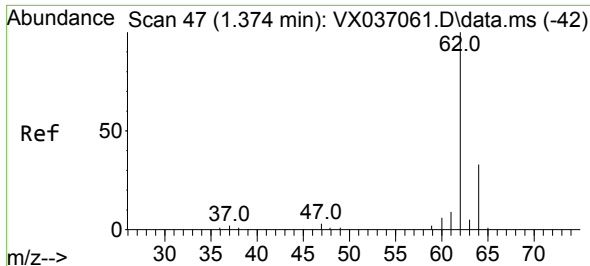
Tgt Ion:168 Resp: 148309  
Ion Ratio Lower Upper  
168 100  
99 60.3 56.6 85.0



#2  
Dichlorodifluoromethane  
Concen: 0.242 ug/l  
RT: 1.142 min Scan# 9  
Delta R.T. -0.025 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

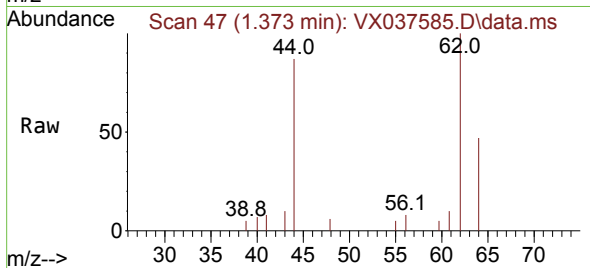
Tgt Ion: 85 Resp: 417  
Ion Ratio Lower Upper  
85 100  
87 31.2 16.7 50.1



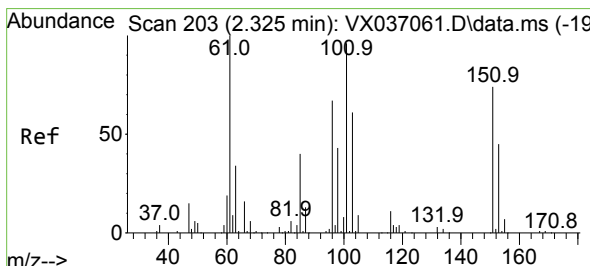
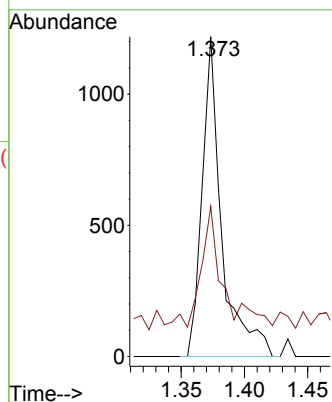
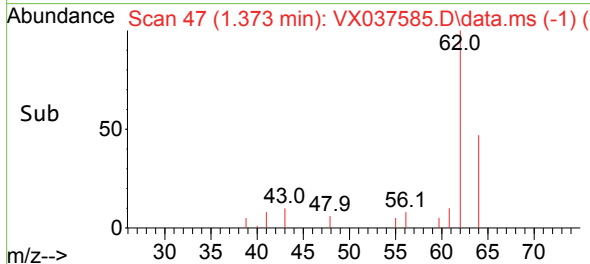


#4  
 Vinyl Chloride  
 Concen: 0.797 ug/l  
 RT: 1.373 min Scan# 41  
 Delta R.T. -0.000 min  
 Lab File: VX037585.D  
 Acq: 07 Sep 2023 17:53

Instrument :  
 MSVOA\_X  
 ClientSampleId :

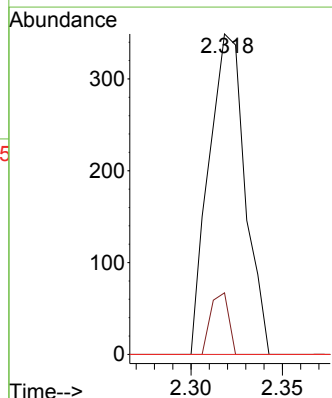
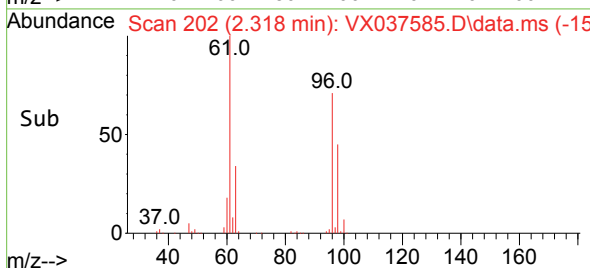
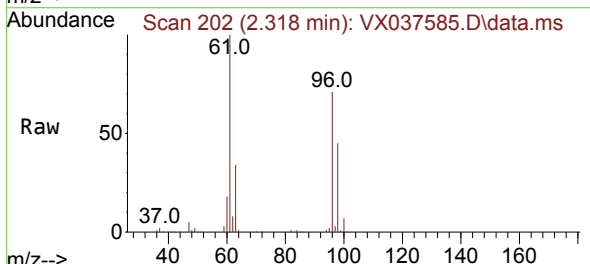


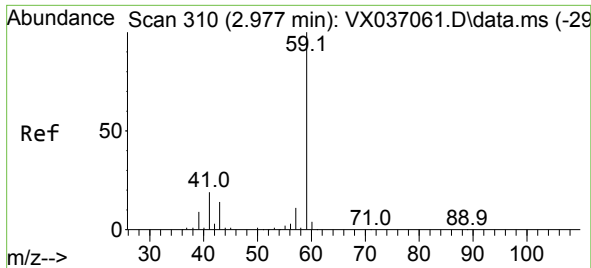
Tgt Ion: 62 Resp: 1308  
 Ion Ratio Lower Upper  
 62 100  
 64 33.6 25.4 38.0



#9  
 1,1,2-Trichlorotrifluoroethane  
 Concen: 0.307 ug/l  
 RT: 2.318 min Scan# 202  
 Delta R.T. -0.006 min  
 Lab File: VX037585.D  
 Acq: 07 Sep 2023 17:53

Tgt Ion: 101 Resp: 482  
 Ion Ratio Lower Upper  
 101 100  
 85 9.5 37.0 55.6#  
 151 0.0 58.6 87.8#





#11

Tert butyl alcohol

Concen: 2.016 ug/l

RT: 3.093 min Scan# 31

Delta R.T. 0.116 min

Lab File: VX037585.D

Acq: 07 Sep 2023 17:53

Instrument :

MSVOA\_X

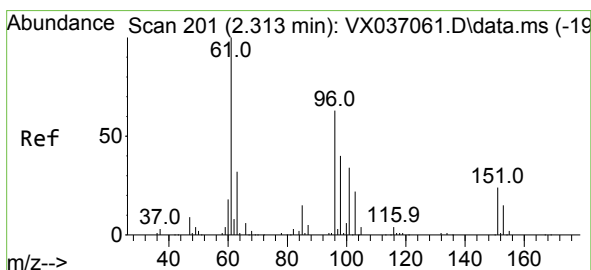
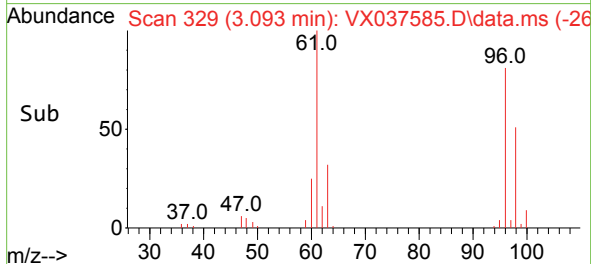
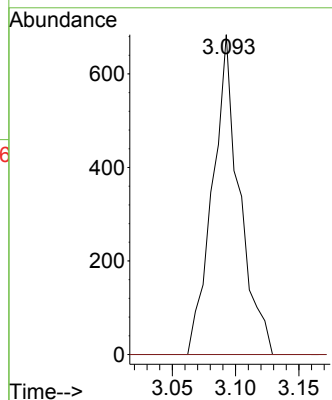
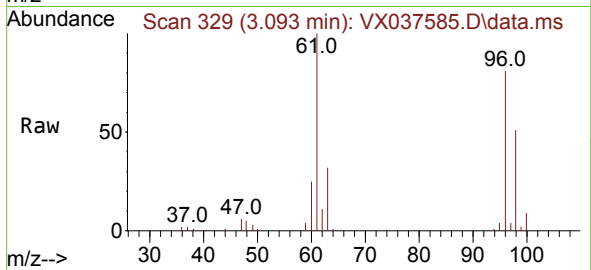
ClientSampleId :

Tgt Ion: 59 Resp: 1011

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#12

1,1-Dichloroethene

Concen: 126.971 ug/l

RT: 2.318 min Scan# 202

Delta R.T. 0.006 min

Lab File: VX037585.D

Acq: 07 Sep 2023 17:53

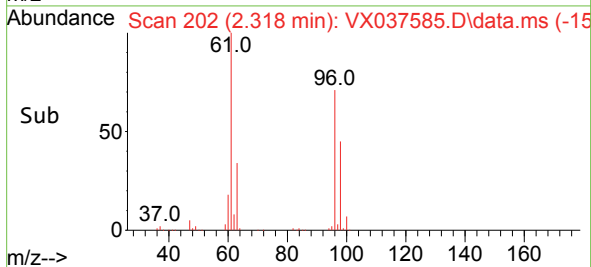
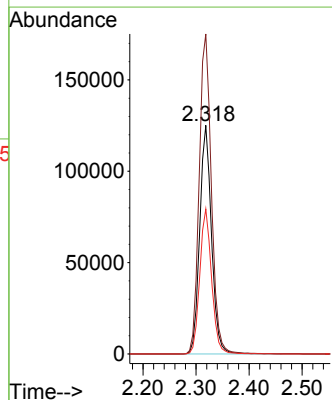
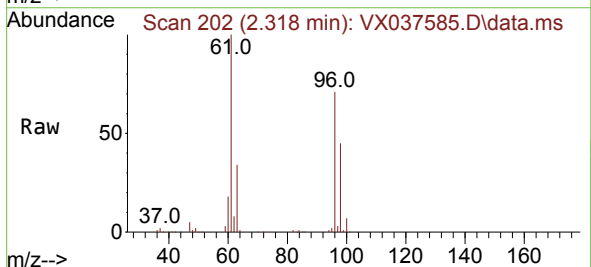
Tgt Ion: 96 Resp: 193846

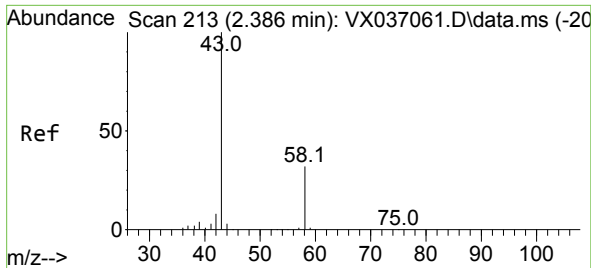
Ion Ratio Lower Upper

96 100

61 140.0 144.6 216.8#

98 63.4 50.4 75.6





#16

Acetone

Concen: 3.612 ug/l

RT: 2.385 min Scan# 21

Delta R.T. -0.000 min

Lab File: VX037585.D

Acq: 07 Sep 2023 17:53

Instrument :

MSVOA\_X

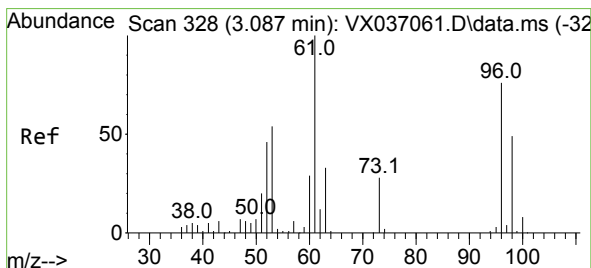
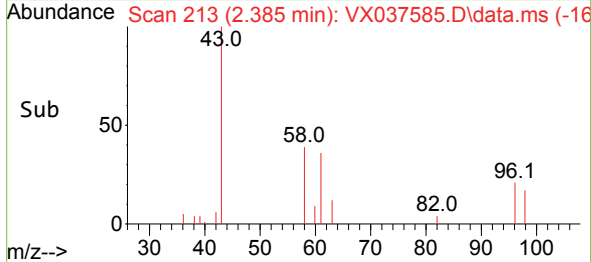
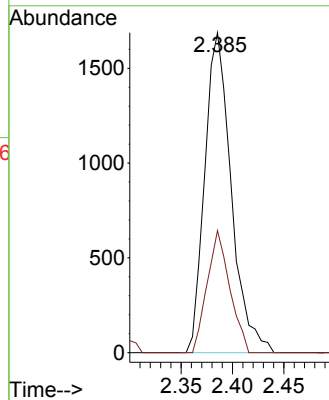
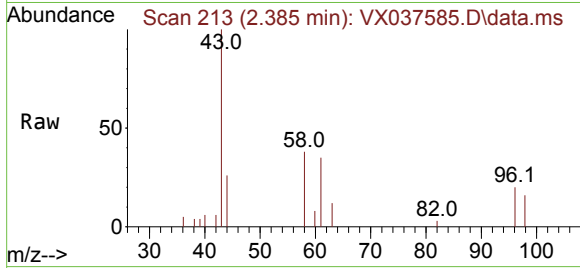
ClientSampleId :

Tgt Ion: 43 Resp: 3021

Ion Ratio Lower Upper

43 100

58 38.2 21.9 32.9#



#21

trans-1,2-Dichloroethene

Concen: 13.294 ug/l

RT: 3.093 min Scan# 329

Delta R.T. 0.006 min

Lab File: VX037585.D

Acq: 07 Sep 2023 17:53

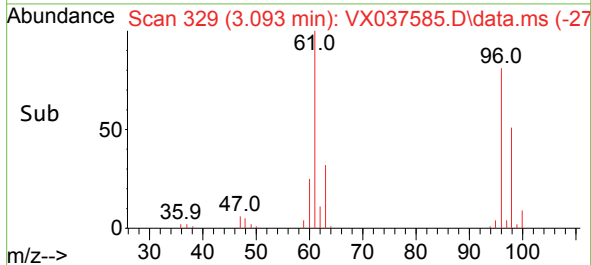
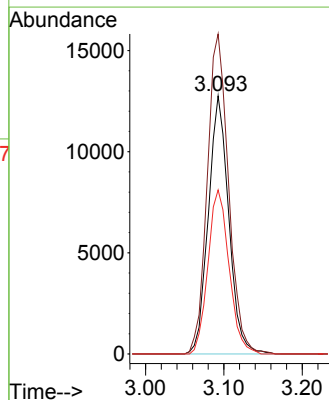
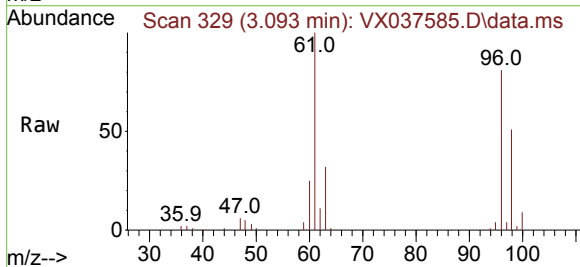
Tgt Ion: 96 Resp: 23072

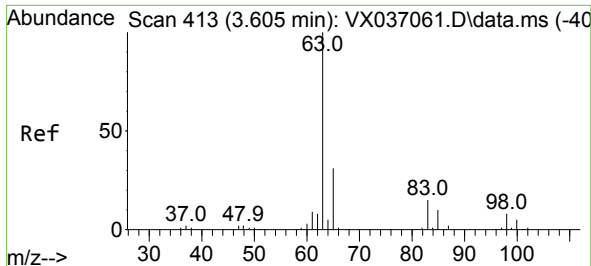
Ion Ratio Lower Upper

96 100

61 124.0 119.2 178.8

98 63.5 48.7 73.1

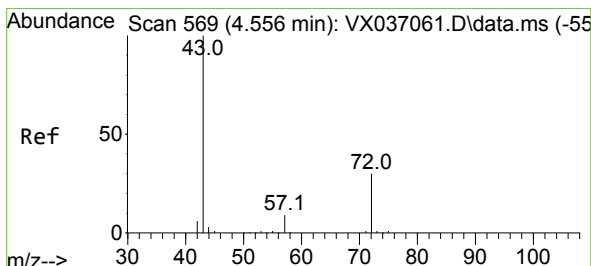
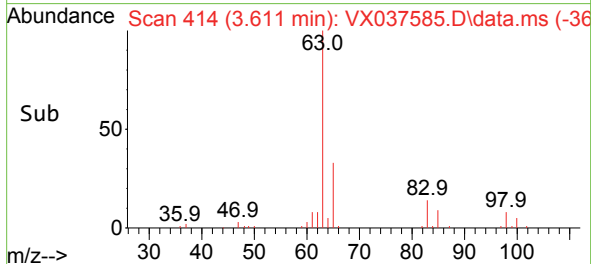
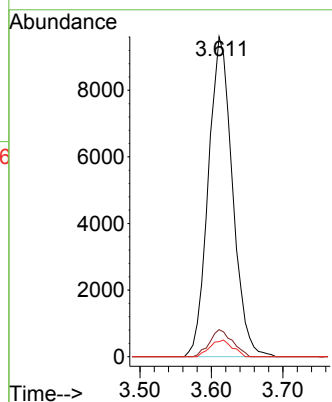
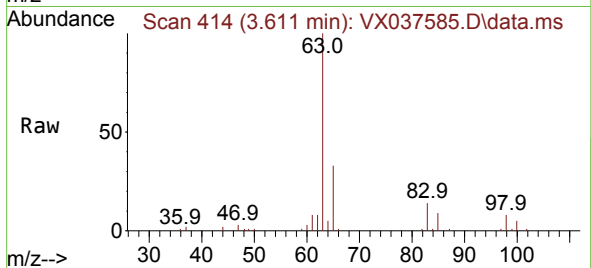




#24  
1,1-Dichloroethane  
Concen: 7.405 ug/l  
RT: 3.611 min Scan# 413  
Delta R.T. 0.006 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

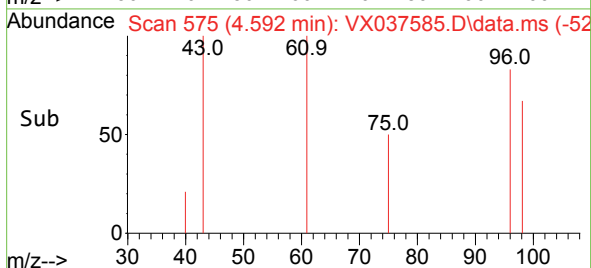
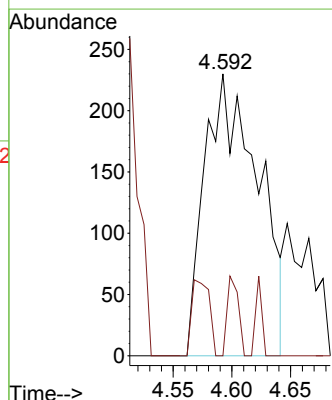
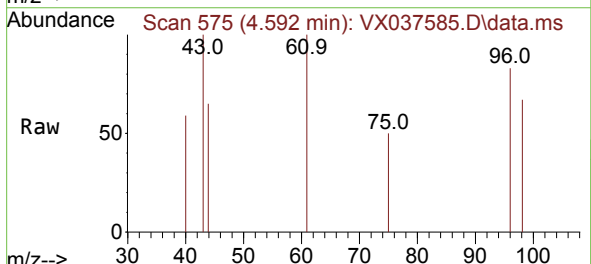
Instrument :  
MSVOA\_X  
ClientSampleId :

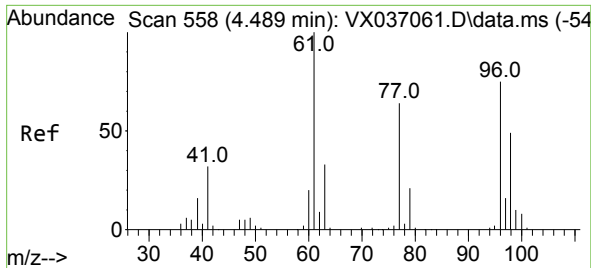
Tgt Ion: 63 Resp: 22516  
Ion Ratio Lower Upper  
63 100  
98 8.4 3.3 9.8  
100 4.7 2.1 6.5



#25  
2-Butanone  
Concen: 0.575 ug/l  
RT: 4.592 min Scan# 575  
Delta R.T. 0.036 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

Tgt Ion: 43 Resp: 724  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#

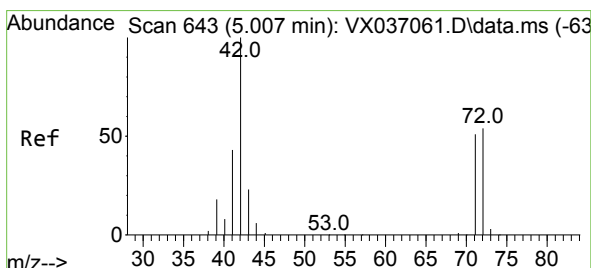
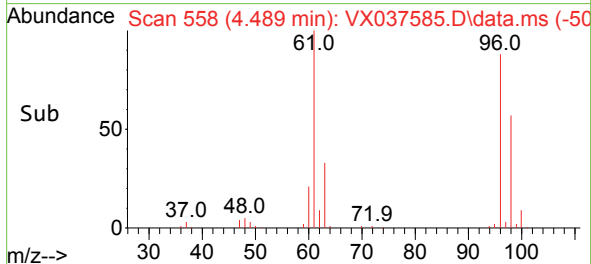
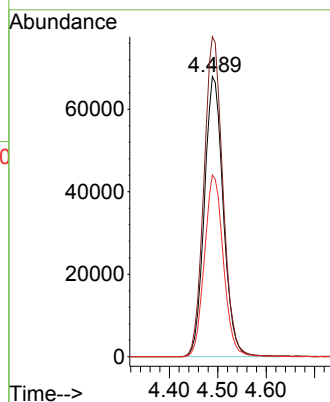
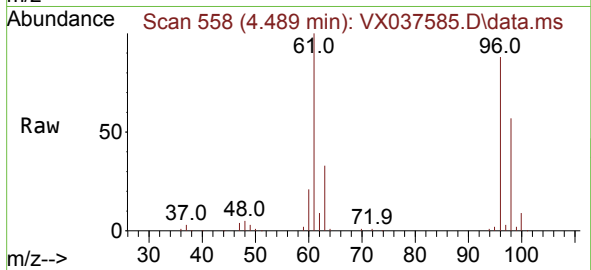




#27  
 cis-1,2-Dichloroethene  
 Concen: 90.030 ug/l  
 RT: 4.489 min Scan# 51  
 Delta R.T. -0.000 min  
 Lab File: VX037585.D  
 Acq: 07 Sep 2023 17:53

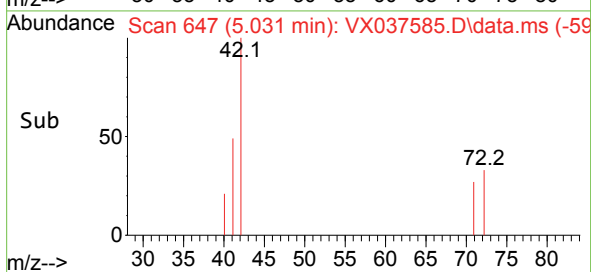
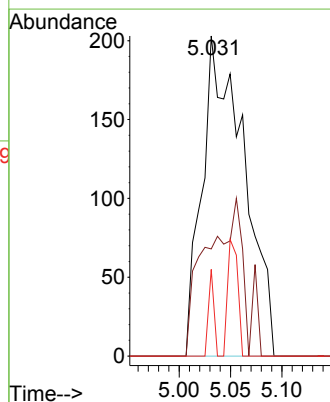
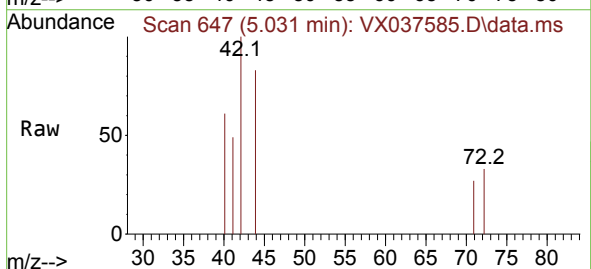
Instrument :  
 MSVOA\_X  
 ClientSampleId :

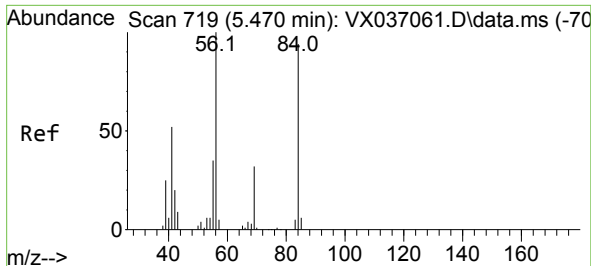
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 Ion Ratio Lower Upper  
 96 100  
 61 114.9 0.0 312.2  
 98 65.0 0.0 129.0



#29  
 Tetrahydrofuran  
 Concen: 0.712 ug/l  
 RT: 5.031 min Scan# 647  
 Delta R.T. 0.024 min  
 Lab File: VX037585.D  
 Acq: 07 Sep 2023 17:53

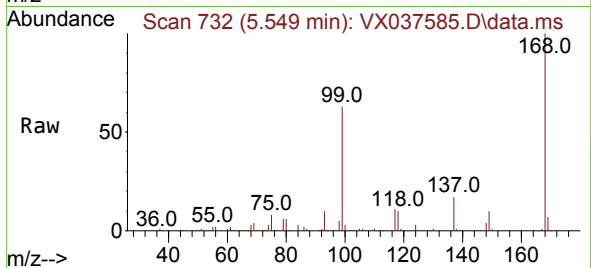
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 71 3.5 32.2 48.2#



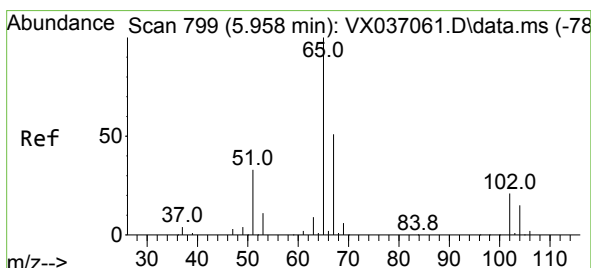
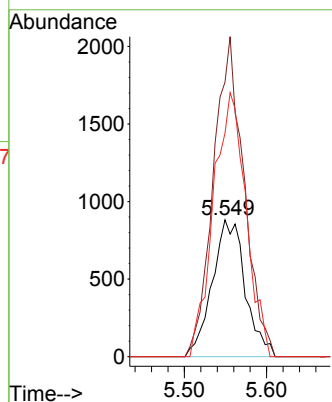
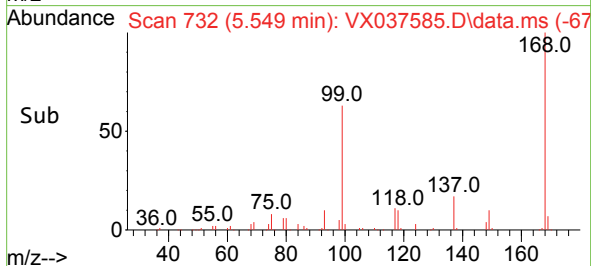


#31  
Cyclohexane  
Concen: 1.020 ug/l  
RT: 5.549 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

Instrument :  
MSVOA\_X  
ClientSampleId :

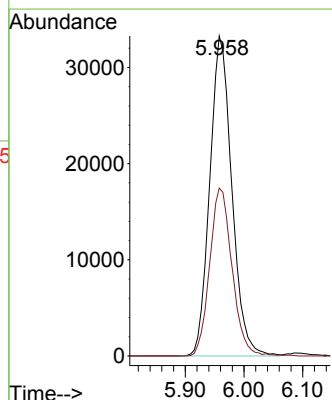
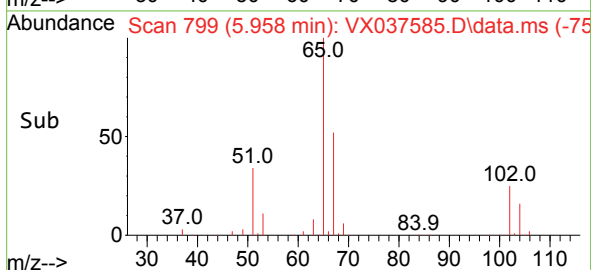
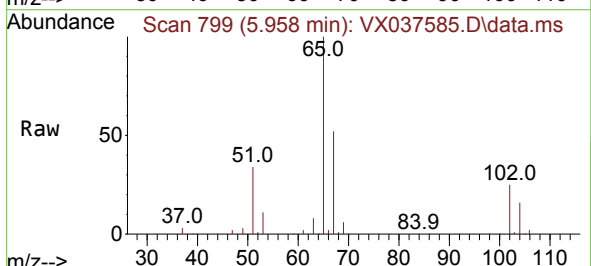


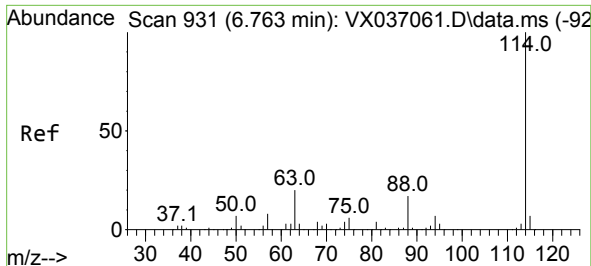
Tgt Ion: 56 Resp: 2453  
Ion Ratio Lower Upper  
56 100  
69 200.7 23.4 35.2#  
84 163.4 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 40.540 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. -0.000 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

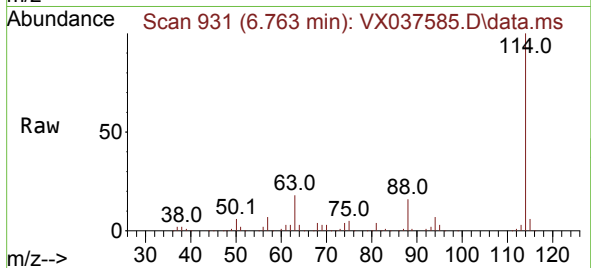
Tgt Ion: 65 Resp: 86680  
Ion Ratio Lower Upper  
65 100  
67 53.3 0.0 100.2



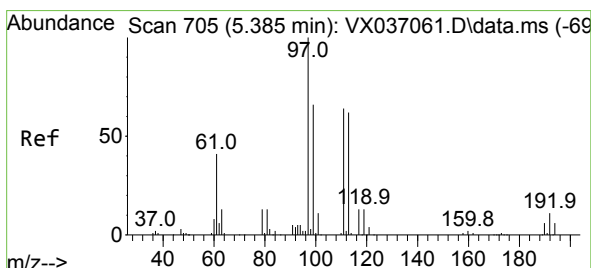
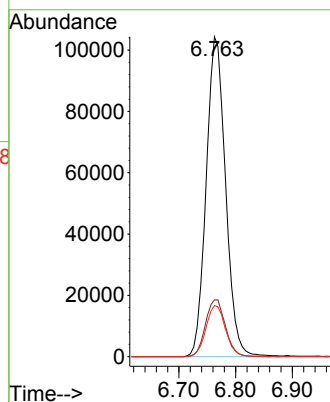
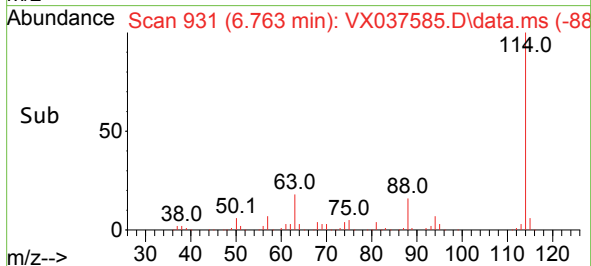


#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

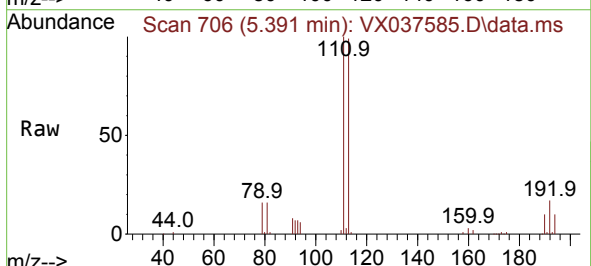
Instrument :  
MSVOA\_X  
ClientSampleId :



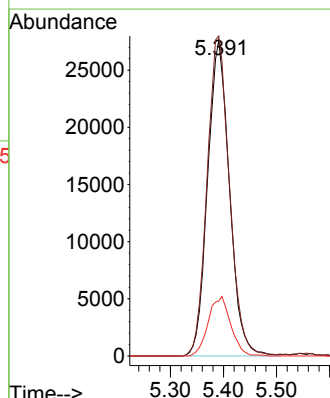
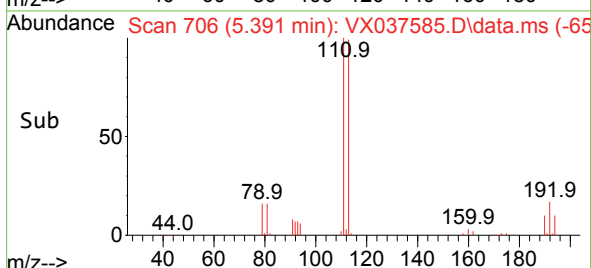
Tgt Ion:114 Resp: 248094  
Ion Ratio Lower Upper  
114 100  
63 17.8 0.0 45.0  
88 16.0 0.0 36.6

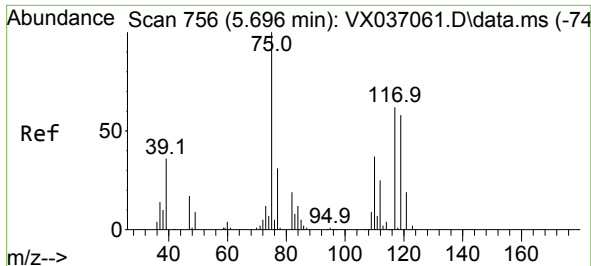


#35  
Dibromofluoromethane  
Concen: 47.993 ug/l  
RT: 5.391 min Scan# 706  
Delta R.T. 0.006 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53



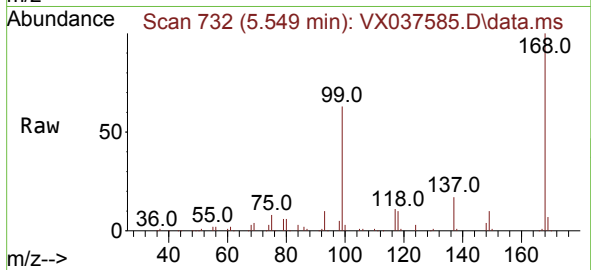
Tgt Ion:113 Resp: 78856  
Ion Ratio Lower Upper  
113 100  
111 103.8 82.9 124.3  
192 19.4 13.3 19.9



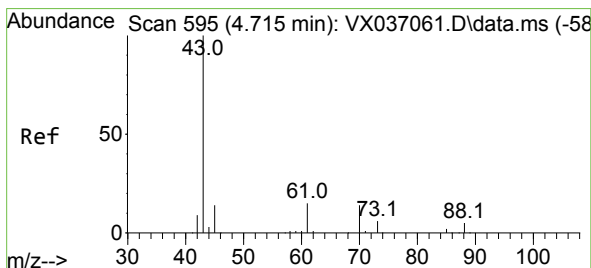
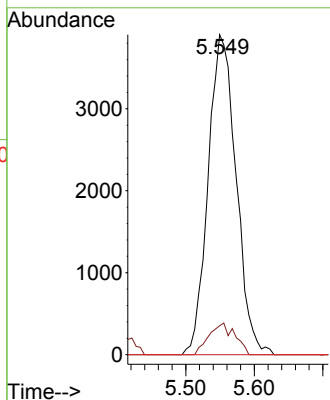
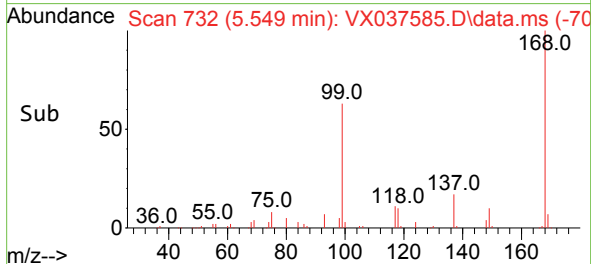


#36  
1,1-Dichloropropene  
Concen: 4.740 ug/l  
RT: 5.549 min Scan# 71  
Delta R.T. -0.147 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

Instrument :  
MSVOA\_X  
ClientSampleId :

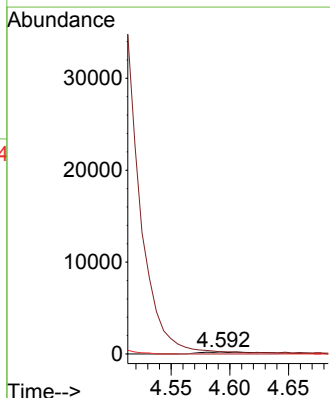
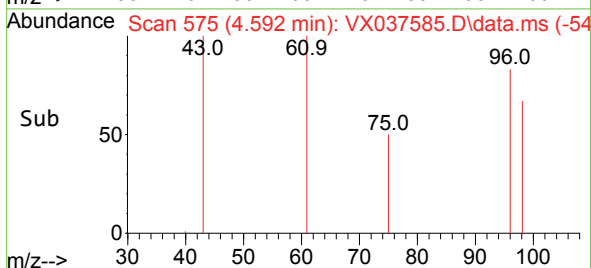
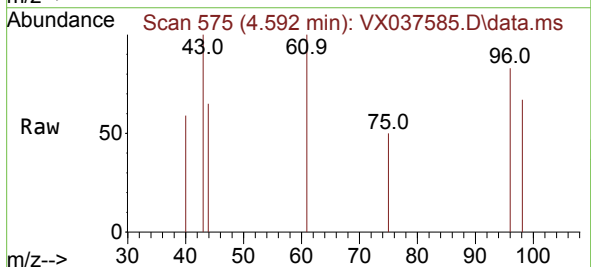


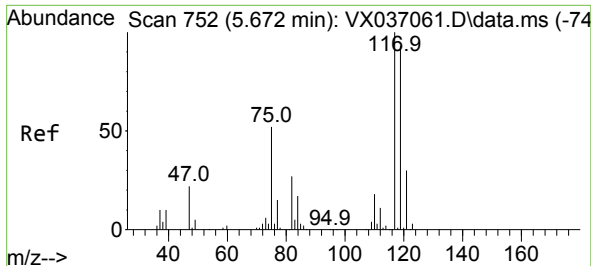
Tgt Ion: 75 Resp: 11064  
Ion Ratio Lower Upper  
75 100  
110 9.2 17.0 50.9#  
77 0.0 24.7 37.1#



#37  
Ethyl Acetate  
Concen: 0.304 ug/l  
RT: 4.592 min Scan# 575  
Delta R.T. -0.122 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

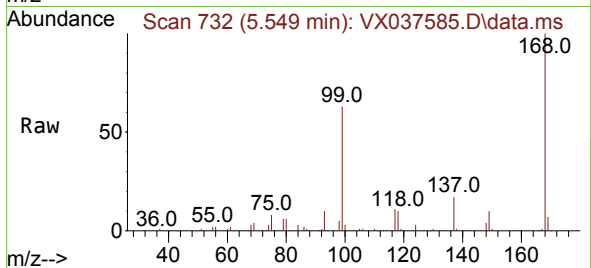
Tgt Ion: 43 Resp: 724  
Ion Ratio Lower Upper  
43 100  
61 0.0 10.6 16.0#  
70 0.0 8.3 12.5#



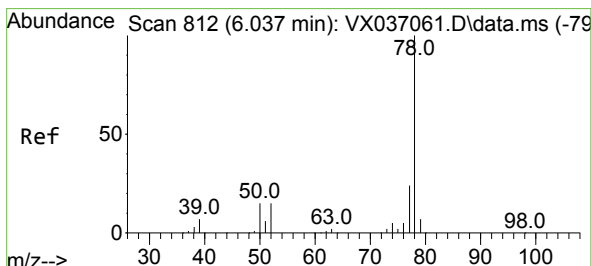
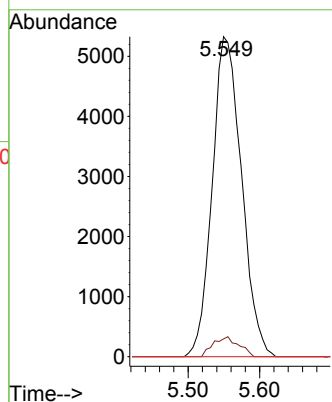
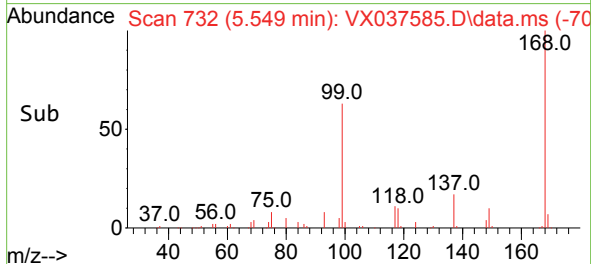


#38  
Carbon Tetrachloride  
Concen: 5.970 ug/l  
RT: 5.549 min Scan# 71  
Delta R.T. -0.122 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

Instrument :  
MSVOA\_X  
ClientSampleId :

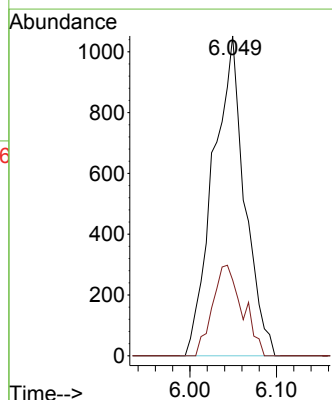
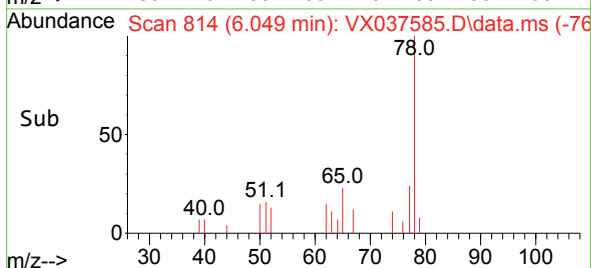
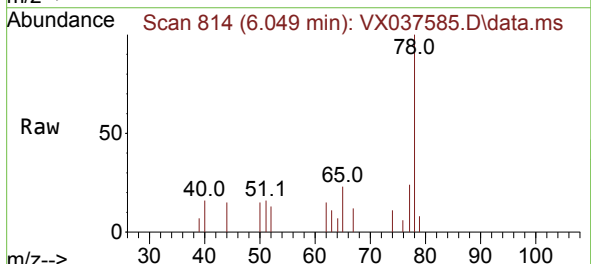


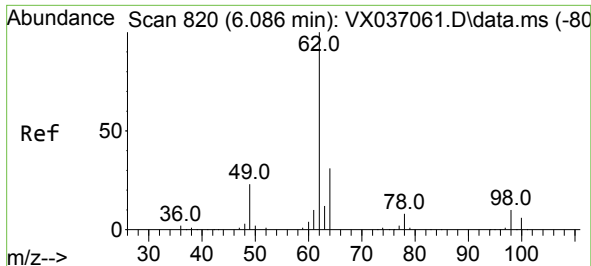
Tgt Ion:117 Resp: 15139  
Ion Ratio Lower Upper  
117 100  
119 5.6 78.2 117.2#  
121 0.0 24.4 36.6#



#40  
Benzene  
Concen: 0.398 ug/l  
RT: 6.049 min Scan# 814  
Delta R.T. 0.012 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

Tgt Ion: 78 Resp: 2664  
Ion Ratio Lower Upper  
78 100  
77 23.7 19.3 28.9





#42

1,2-Dichloroethane

Concen: 4.955 ug/l

RT: 6.098 min Scan# 81

Delta R.T. 0.012 min

Lab File: VX037585.D

Acq: 07 Sep 2023 17:53

Instrument :

MSVOA\_X

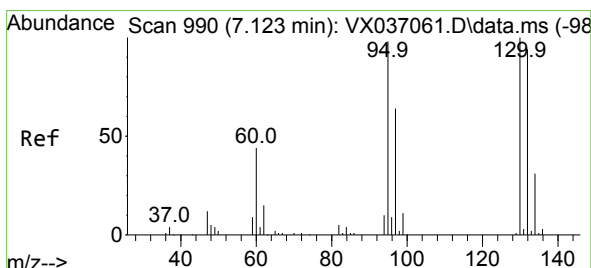
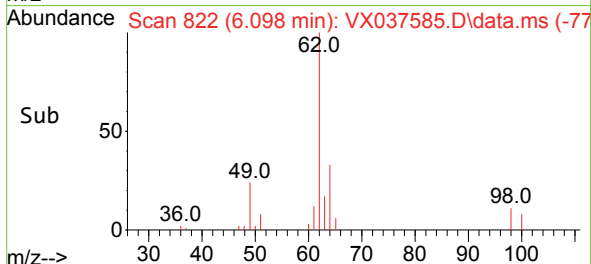
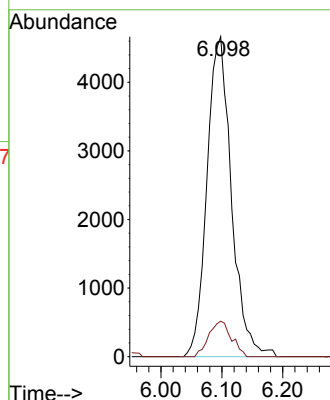
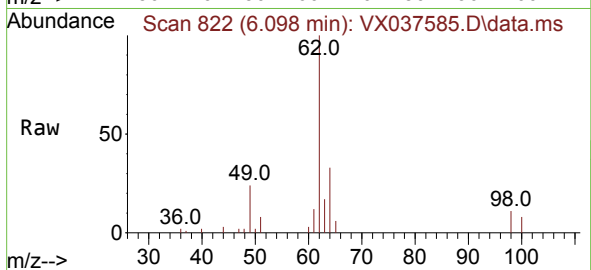
ClientSampleId :

Tgt Ion: 62 Resp: 13009

Ion Ratio Lower Upper

62 100

98 10.3 0.0 16.0



#44

Trichloroethene

Concen: 21.038 ug/l

RT: 7.128 min Scan# 991

Delta R.T. 0.006 min

Lab File: VX037585.D

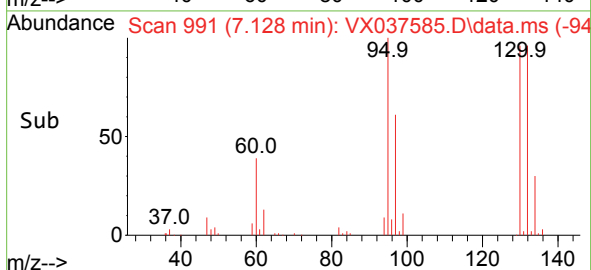
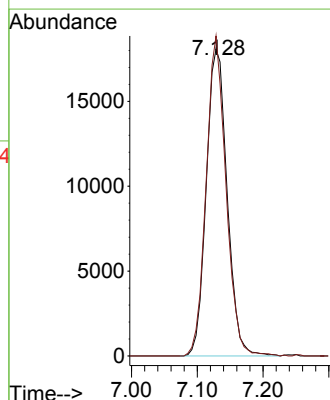
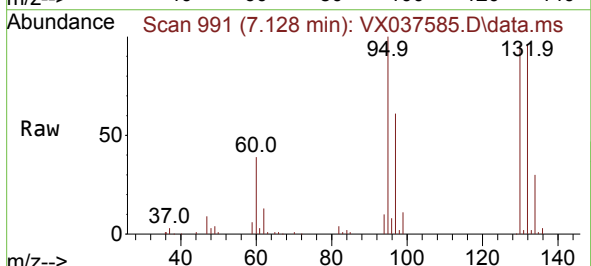
Acq: 07 Sep 2023 17:53

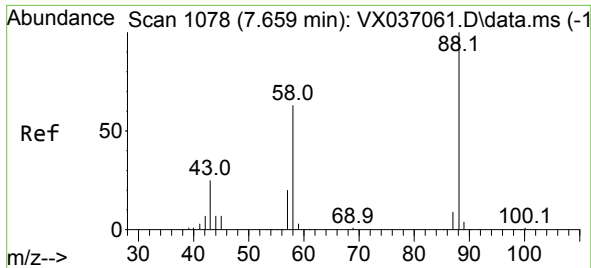
Tgt Ion:130 Resp: 39939

Ion Ratio Lower Upper

130 100

95 104.3 0.0 204.4

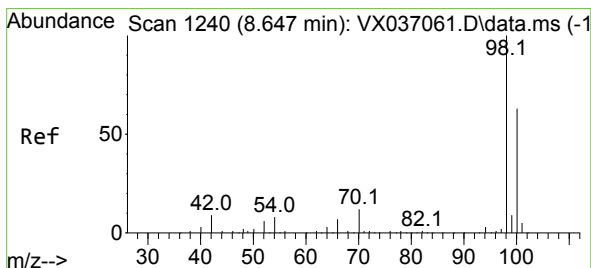
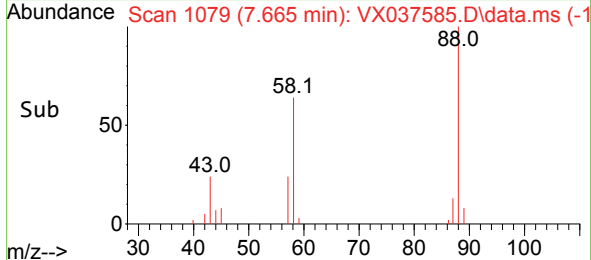
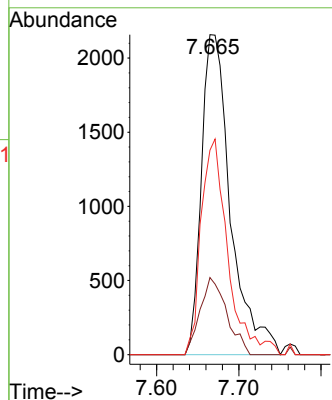
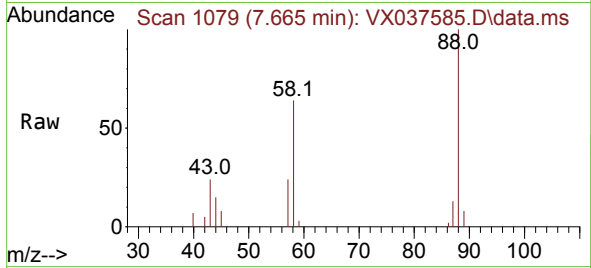




#49  
1,4-Dioxane  
Concen: 106.773 ug/l  
RT: 7.665 min Scan# 1078  
Delta R.T. 0.006 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

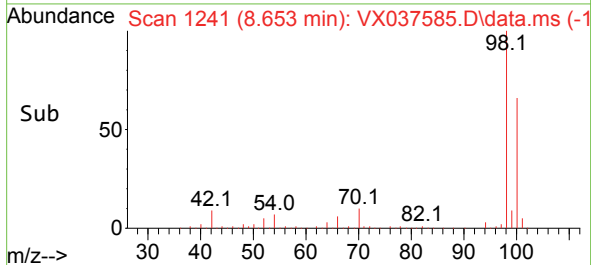
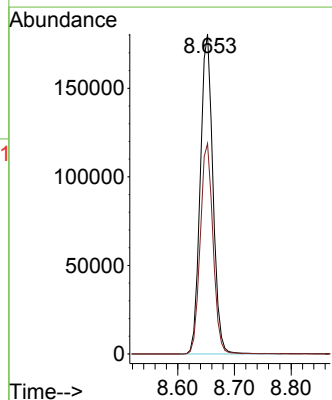
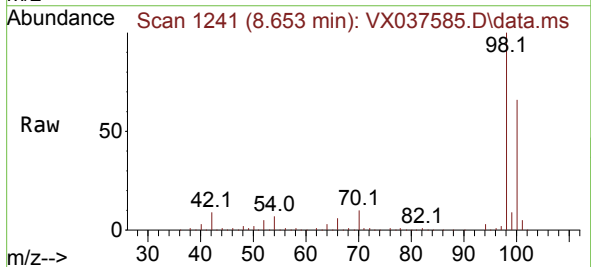
Instrument :  
MSVOA\_X  
ClientSampleId :

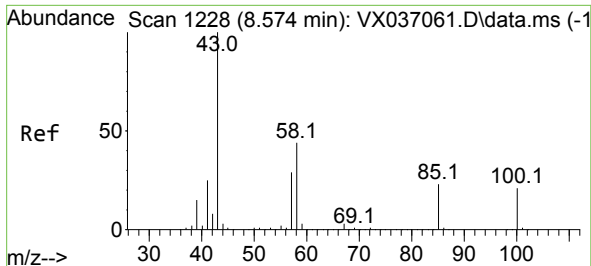
Tgt Ion: 88 Resp: 5309  
Ion Ratio Lower Upper  
88 100  
43 22.1 0.0 0.0#  
58 61.9 60.1 90.1



#50  
Toluene-d8  
Concen: 46.896 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.006 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

Tgt Ion: 98 Resp: 279501  
Ion Ratio Lower Upper  
98 100  
100 66.3 53.1 79.7

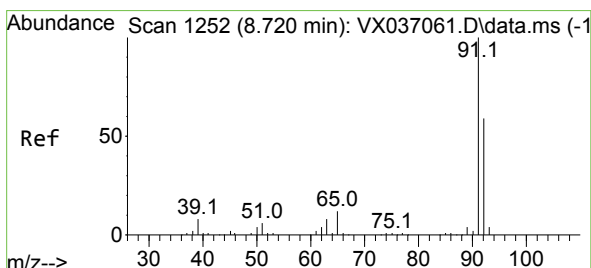
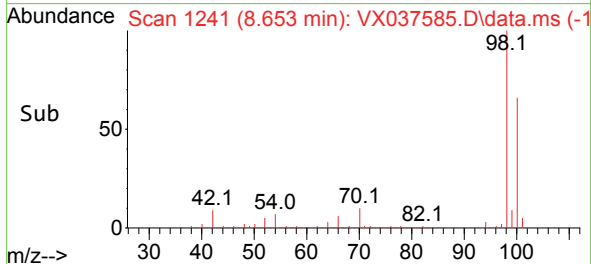
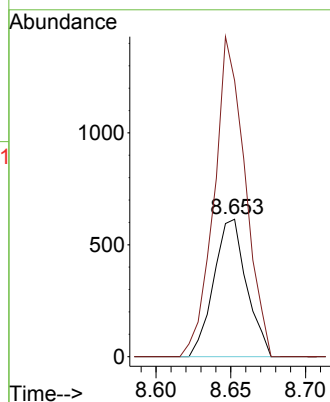
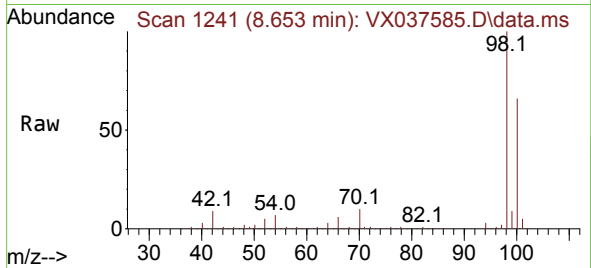




#51  
4-Methyl-2-Pentanone  
Concen: 0.408 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.079 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

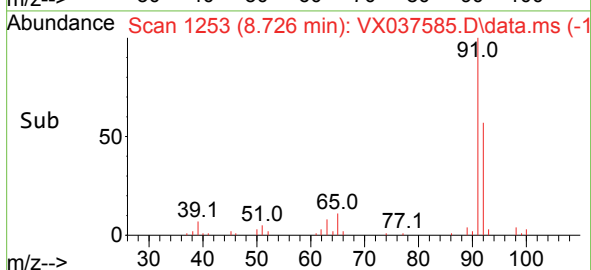
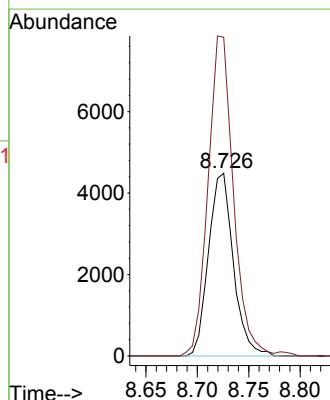
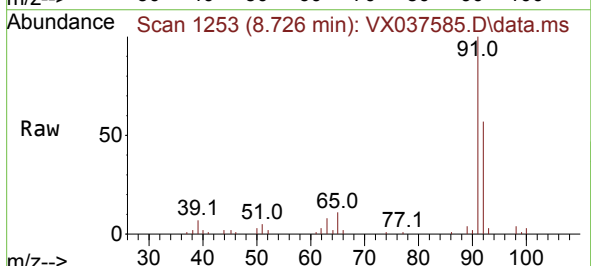
Instrument :  
MSVOA\_X  
ClientSampleId :

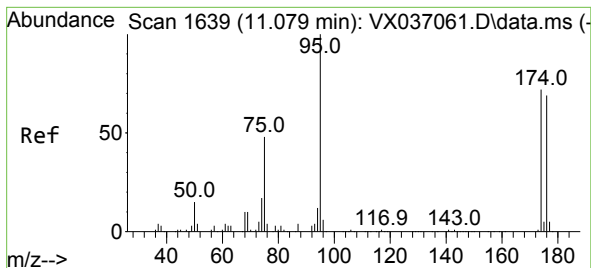
Tgt Ion: 43 Resp: 938  
Ion Ratio Lower Upper  
43 100  
58 219.7 30.4 45.6#



#52  
Toluene  
Concen: 1.704 ug/l  
RT: 8.726 min Scan# 1253  
Delta R.T. 0.006 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

Tgt Ion: 92 Resp: 7536  
Ion Ratio Lower Upper  
92 100  
91 178.3 134.2 201.2

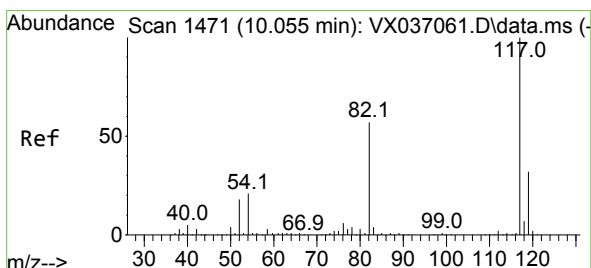
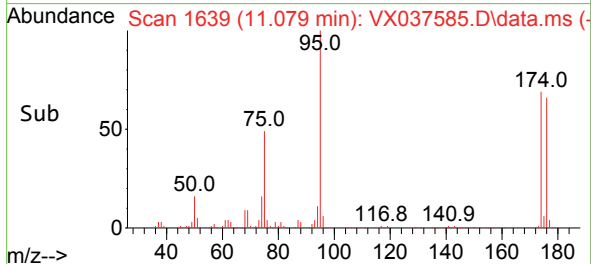
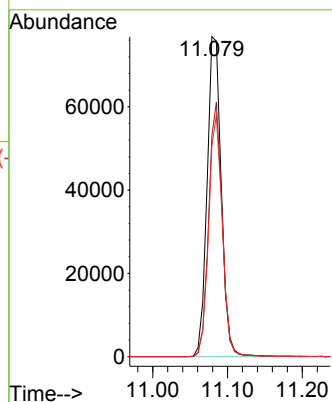
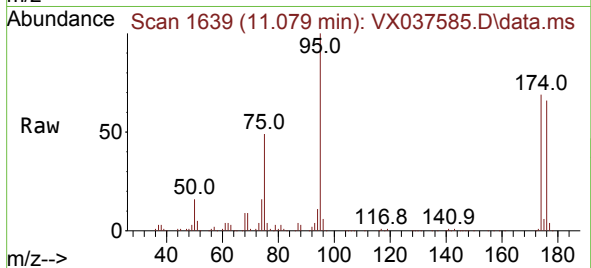




#62  
4-Bromofluorobenzene  
Concen: 43.189 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

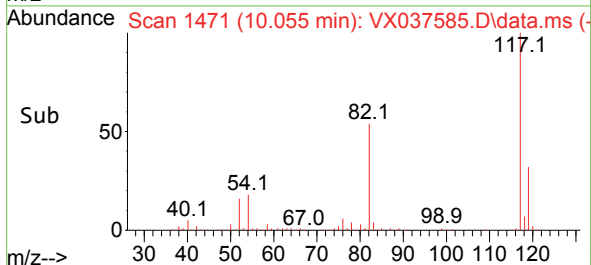
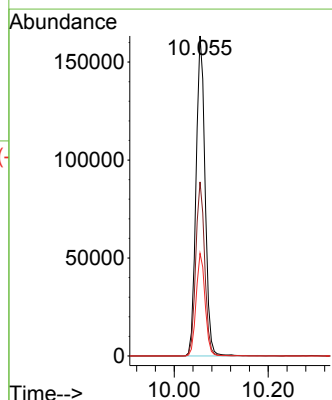
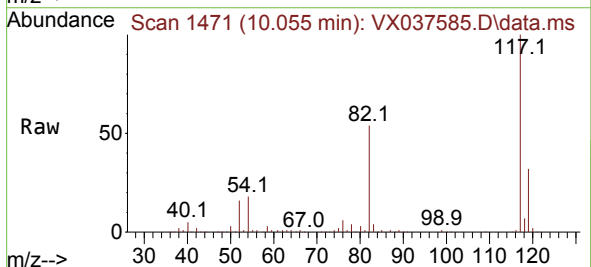
Instrument :  
MSVOA\_X  
ClientSampleId :

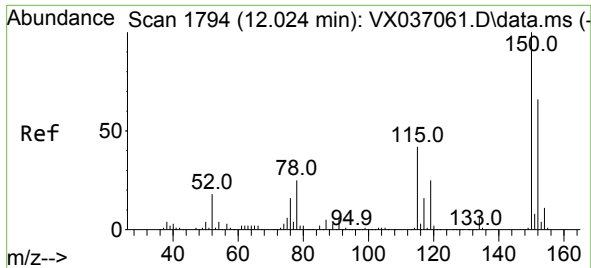
Tgt Ion: 95 Resp: 101158  
Ion Ratio Lower Upper  
95 100  
174 76.3 0.0 135.6  
176 72.9 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX037585.D  
Acq: 07 Sep 2023 17:53

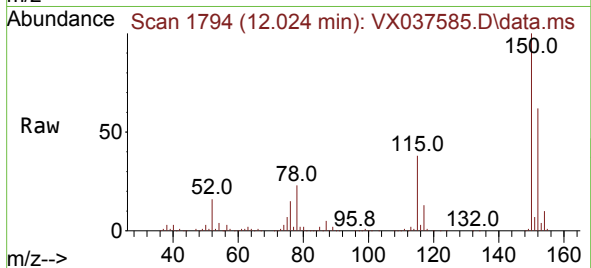
Tgt Ion: 117 Resp: 220210  
Ion Ratio Lower Upper  
117 100  
82 54.4 46.2 69.4  
119 32.0 25.5 38.3



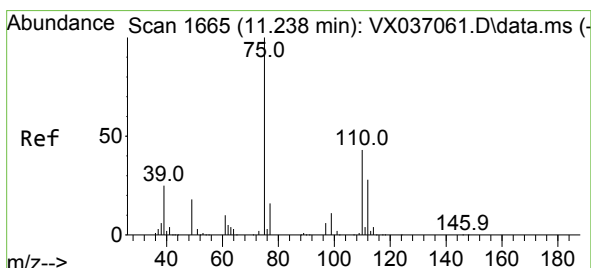
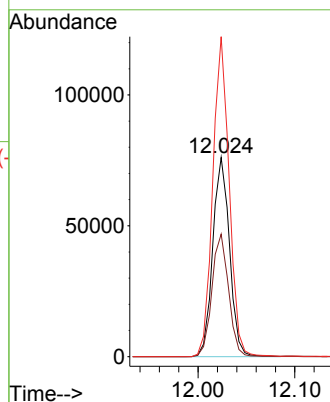
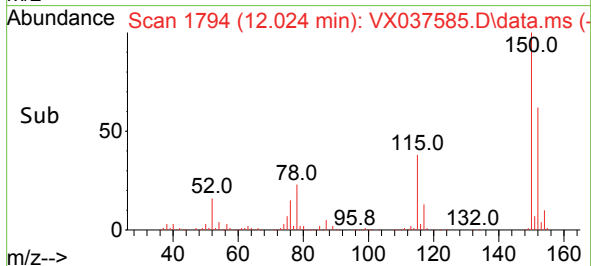


#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 1  
 Delta R.T. -0.000 min  
 Lab File: VX037585.D  
 Acq: 07 Sep 2023 17:53

Instrument :  
 MSVOA\_X  
 ClientSampleId :

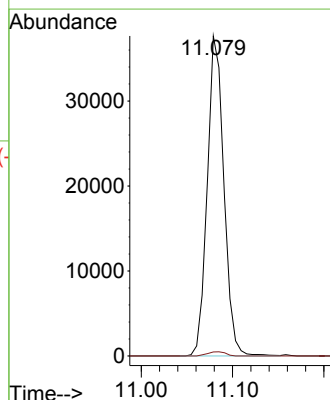
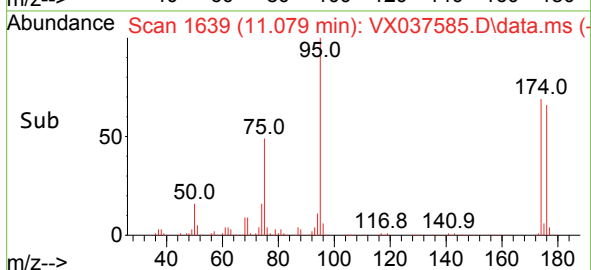
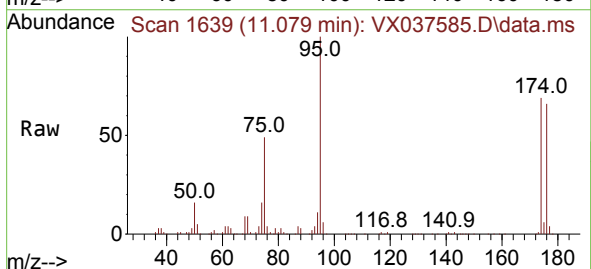


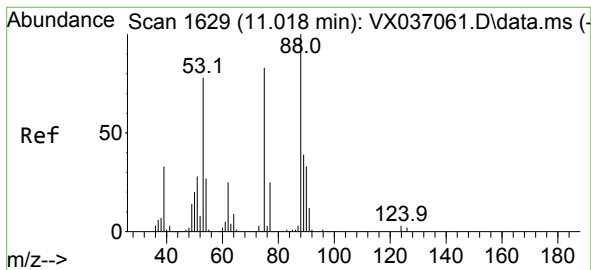
Tgt Ion:152 Resp: 91557  
 Ion Ratio Lower Upper  
 152 100  
 115 61.4 43.3 129.9  
 150 157.1 0.0 345.0



#76  
 1,2,3-Trichloropropane  
 Concen: 24.409 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.159 min  
 Lab File: VX037585.D  
 Acq: 07 Sep 2023 17:53

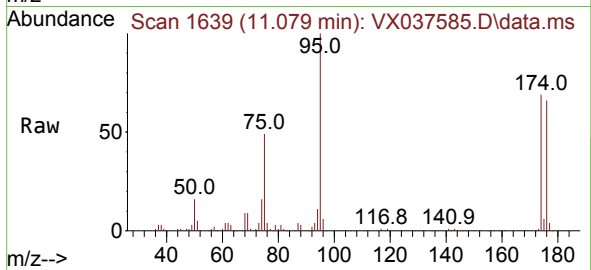
Tgt Ion: 75 Resp: 47594  
 Ion Ratio Lower Upper  
 75 100  
 77 1.4 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 68.175 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX037585.D  
 Acq: 07 Sep 2023 17:53

Instrument :  
 MSVOA\_X  
 ClientSampleId :



Tgt Ion: 75 Resp: 47594  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 90.5 135.7#  
 89 0.0 36.9 55.3#

