

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111823\  
 Data File : VX038930.D  
 Acq On : 18 Nov 2023 15:55  
 Operator : JC/MD  
 Sample : 05404-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TT162S1-20231109

Quant Time: Nov 20 04:36:21 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

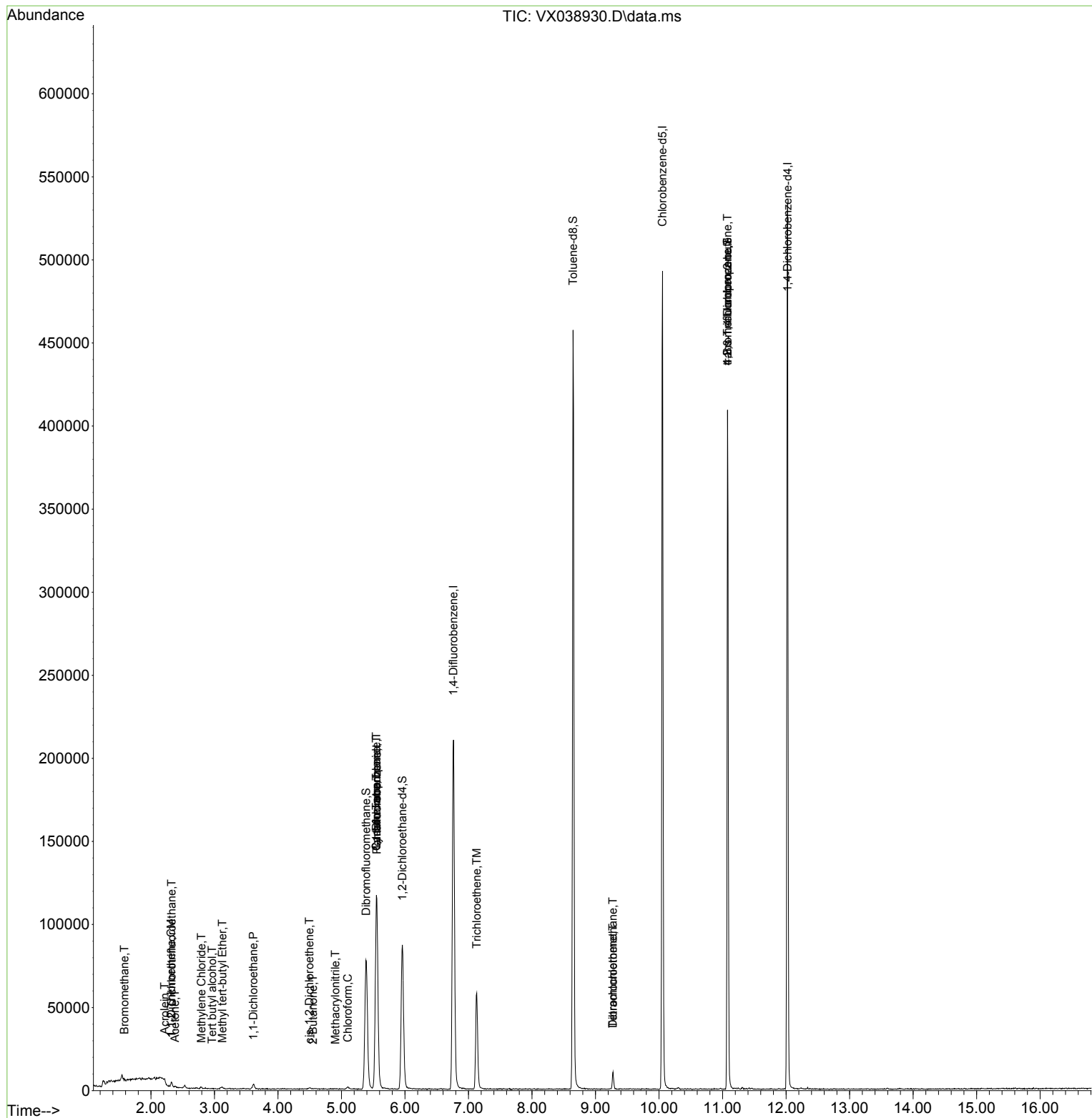
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 103202     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 213688     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 217314     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 105995     | 50.000   | ug/l   | 0.00     |
|                               |                |      |            |          |        |          |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 83096      | 49.969   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 99.940%  |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 68547      | 44.416   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 88.840%  |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 268347     | 45.446   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 90.900%# |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 114228     | 48.326   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 96.660%  |        |          |
|                               |                |      |            |          |        |          |
| Target Compounds              |                |      |            |          |        | Qvalue   |
| 5) Bromomethane               | 1.581          | 94   | 131        | 0.209    | ug/l # | 11       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.325          | 101  | 427        | 0.335    | ug/l   | 95       |
| 11) Tert butyl alcohol        | 2.965          | 59   | 141        | 0.305    | ug/l # | 1        |
| 12) 1,1-Dichloroethene        | 2.319          | 96   | 963        | 0.749    | ug/l # | 71       |
| 13) Acrolein                  | 2.215          | 56   | 230        | 0.940    | ug/l # | 82       |
| 16) Acetone                   | 2.380          | 43   | 1079       | 1.219    | ug/l # | 86       |
| 19) Methyl tert-butyl Ether   | 3.123          | 73   | 1033       | 0.228    | ug/l # | 71       |
| 20) Methylene Chloride        | 2.794          | 84   | 524        | 0.328    | ug/l # | 70       |
| 24) 1,1-Dichloroethane        | 3.611          | 63   | 3381       | 1.280    | ug/l   | 100      |
| 25) 2-Butanone                | 4.550          | 43   | 296        | 0.206    | ug/l # | 51       |
| 27) cis-1,2-Dichloroethene    | 4.495          | 96   | 605        | 0.366    | ug/l   | 61       |
| 30) Chloroform                | 5.099          | 83   | 1508       | 0.585    | ug/l   | 90       |
| 31) Cyclohexane               | 5.550          | 56   | 3111       | 1.310    | ug/l # | 21       |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 9800       | 4.431    | ug/l # | 50       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 11373      | 5.563    | ug/l # | 14       |
| 41) Methacrylonitrile         | 4.904          | 41   | 323        | 0.216    | ug/l # | 48       |
| 44) Trichloroethene           | 7.129          | 130  | 22065      | 13.856   | ug/l   | 99       |
| 60) Dibromochloromethane      | 9.275          | 129  | 1739       | 1.010    | ug/l # | 11       |
| 64) Tetrachloroethene         | 9.275          | 164  | 1513       | 1.120    | ug/l # | 78       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 59854      | 22.633   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 59854      | 50.202   | ug/l # | 5        |
| -----                         |                |      |            |          |        |          |

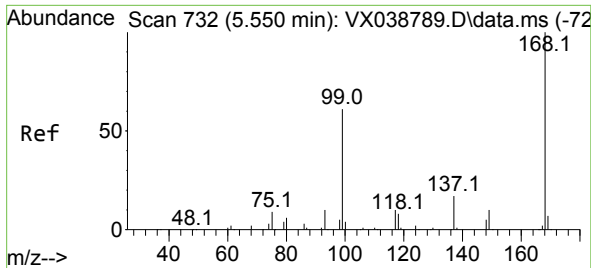
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Nov 16 22:59:22 2023  
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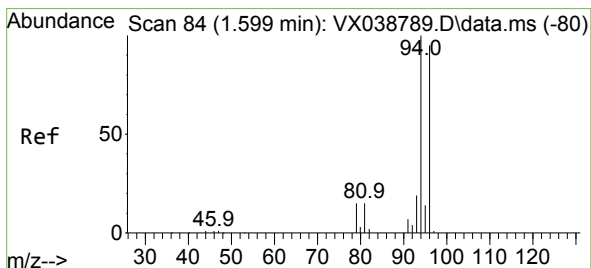
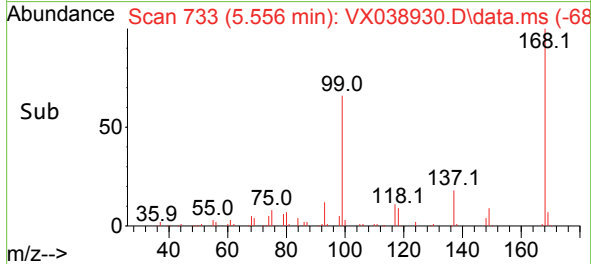
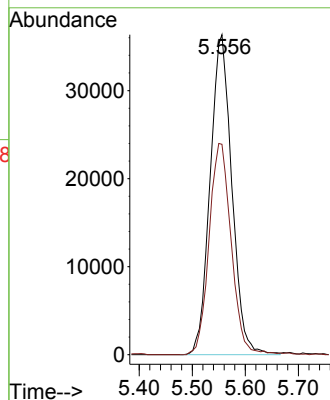
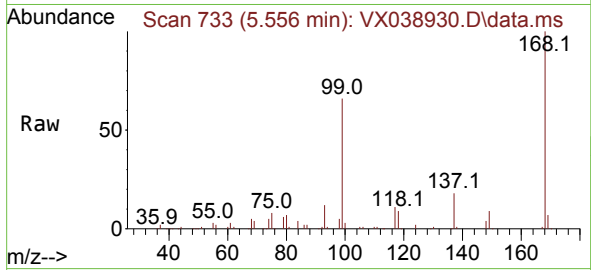




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

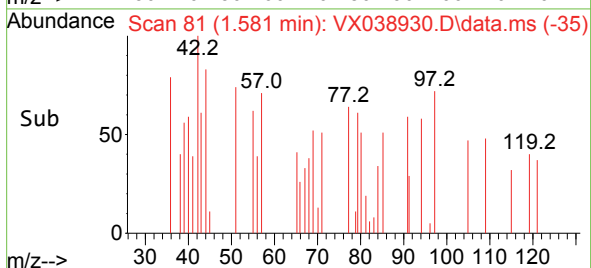
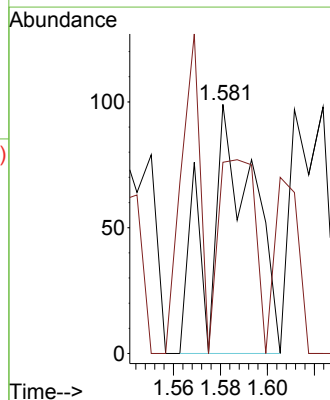
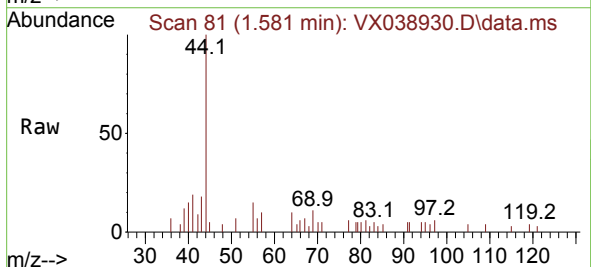
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT162S1-20231109

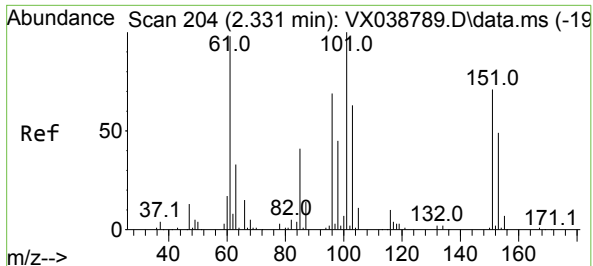
Tgt Ion:168 Resp: 103202  
Ion Ratio Lower Upper  
168 100  
99 65.8 56.6 85.0



#5  
Bromomethane  
Concen: 0.209 ug/l  
RT: 1.581 min Scan# 81  
Delta R.T. -0.018 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

Tgt Ion: 94 Resp: 131  
Ion Ratio Lower Upper  
94 100  
96 8.1 74.6 111.8#

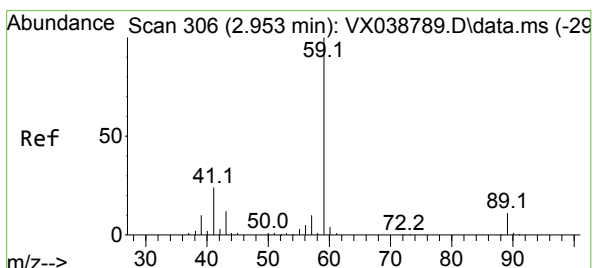
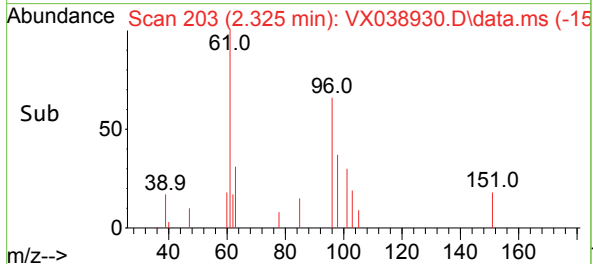
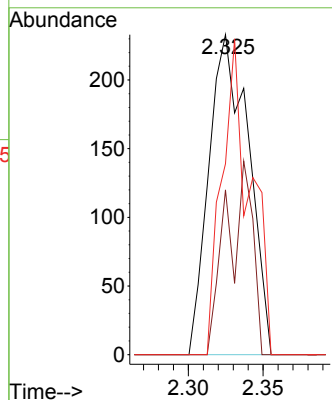
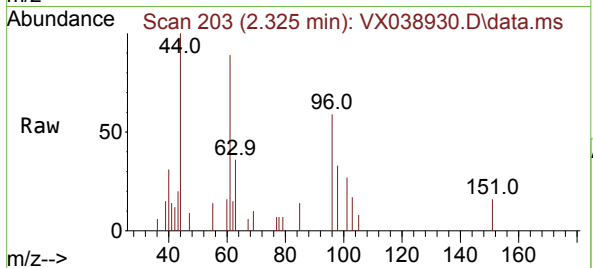




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.335 ug/l  
RT: 2.325 min Scan# 204  
Delta R.T. -0.006 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

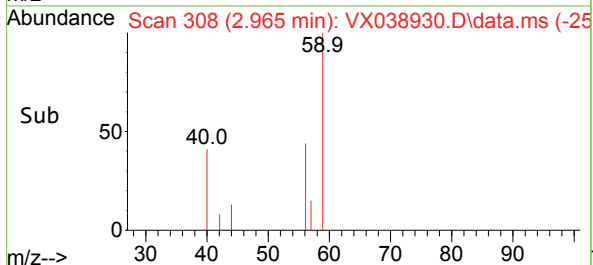
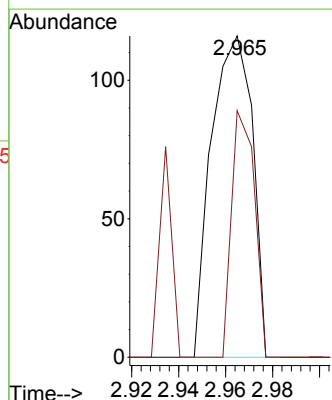
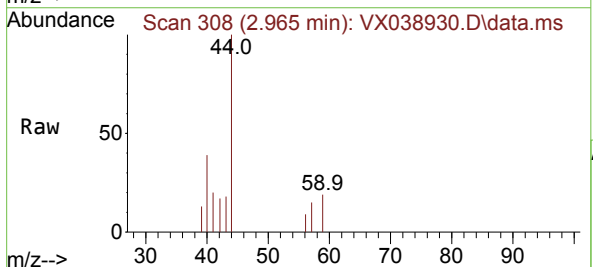
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT162S1-20231109

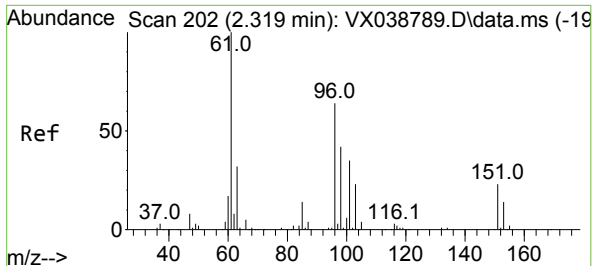
Tgt Ion:101 Resp: 427  
Ion Ratio Lower Upper  
101 100  
85 39.8 37.0 55.6  
151 71.0 58.6 87.8



#11  
Tert butyl alcohol  
Concen: 0.305 ug/l  
RT: 2.965 min Scan# 308  
Delta R.T. 0.012 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

Tgt Ion: 59 Resp: 141  
Ion Ratio Lower Upper  
59 100  
57 42.6 6.0 9.0#

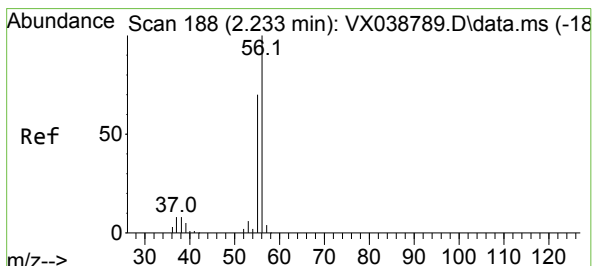
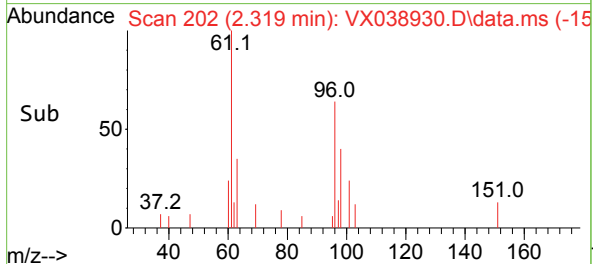
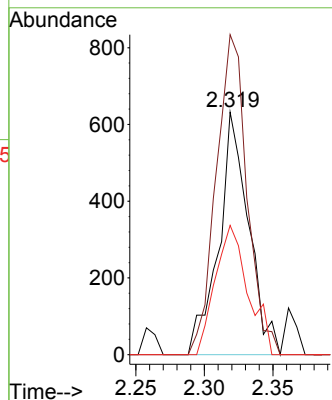
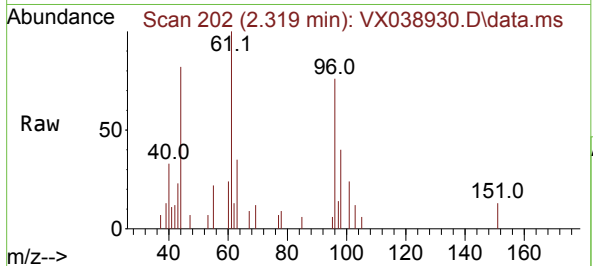




#12  
1,1-Dichloroethene  
Concen: 0.749 ug/l  
RT: 2.319 min Scan# 20  
Delta R.T. 0.000 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

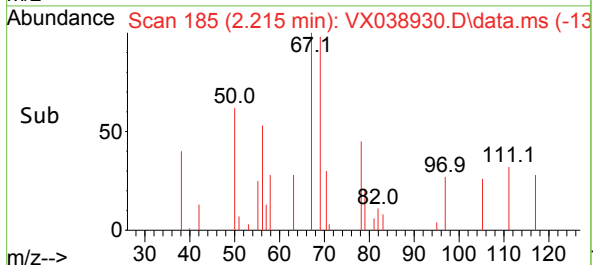
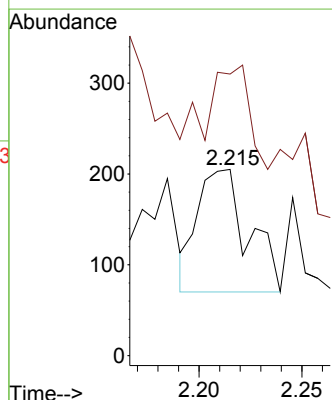
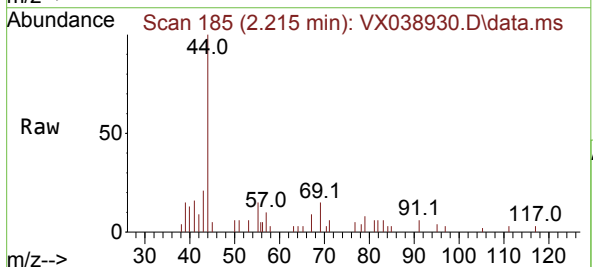
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT162S1-20231109

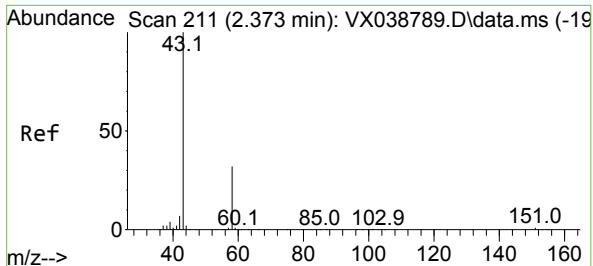
Tgt Ion: 96 Resp: 963  
Ion Ratio Lower Upper  
96 100  
61 132.0 144.6 216.8#  
98 53.3 50.4 75.6



#13  
Acrolein  
Concen: 0.940 ug/l  
RT: 2.215 min Scan# 185  
Delta R.T. -0.018 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

Tgt Ion: 56 Resp: 230  
Ion Ratio Lower Upper  
56 100  
55 56.1 57.1 85.7#

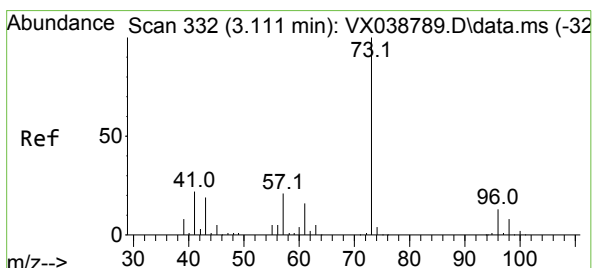
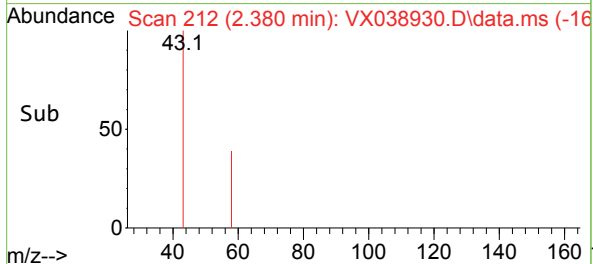
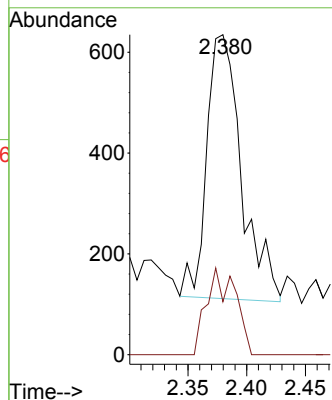
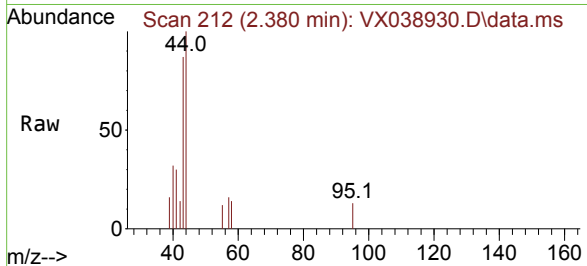




#16  
Acetone  
Concen: 1.219 ug/l  
RT: 2.380 min Scan# 211  
Delta R.T. 0.006 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

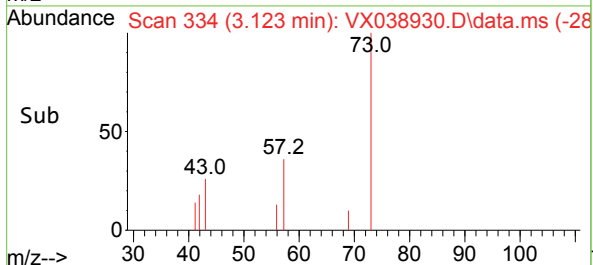
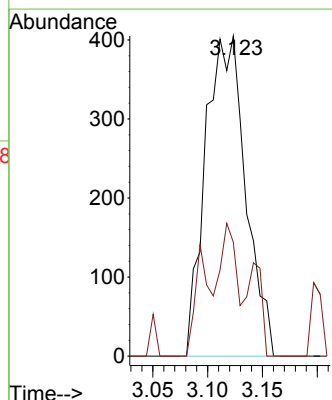
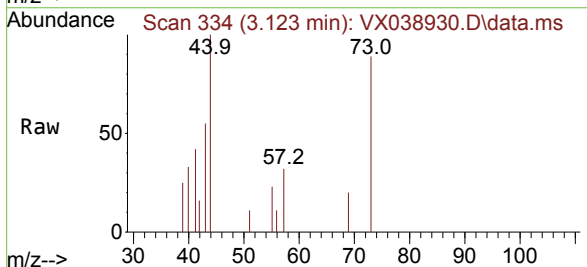
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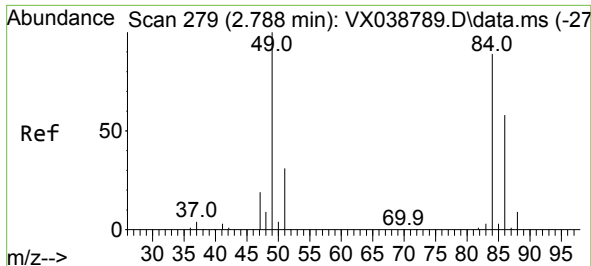
Tgt Ion: 43 Resp: 1079  
Ion Ratio Lower Upper  
43 100  
58 20.2 21.9 32.9#



#19  
Methyl tert-butyl Ether  
Concen: 0.228 ug/l  
RT: 3.123 min Scan# 334  
Delta R.T. 0.012 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

Tgt Ion: 73 Resp: 1033  
Ion Ratio Lower Upper  
73 100  
57 35.6 17.3 25.9#





#20

Methylene Chloride

Concen: 0.328 ug/l

RT: 2.794 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX038930.D

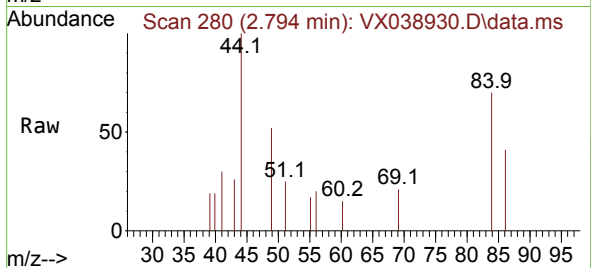
Acq: 18 Nov 2023 15:55

Instrument :

MSVOA\_X

ClientSampleId :

TT162S1-20231109



Tgt Ion: 84 Resp: 524

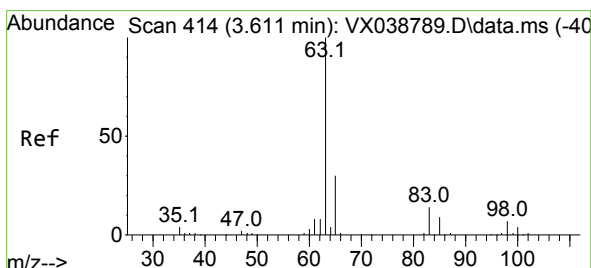
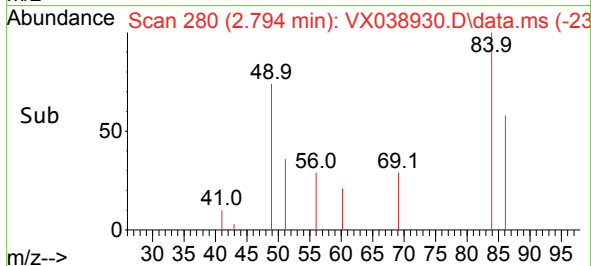
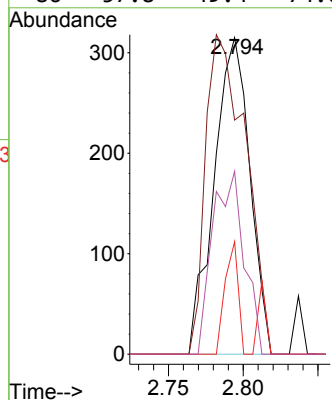
Ion Ratio Lower Upper

84 100

49 74.0 103.6 155.4#

51 35.6 33.8 50.6

86 57.8 49.4 74.0



#24

1,1-Dichloroethane

Concen: 1.280 ug/l

RT: 3.611 min Scan# 414

Delta R.T. 0.000 min

Lab File: VX038930.D

Acq: 18 Nov 2023 15:55

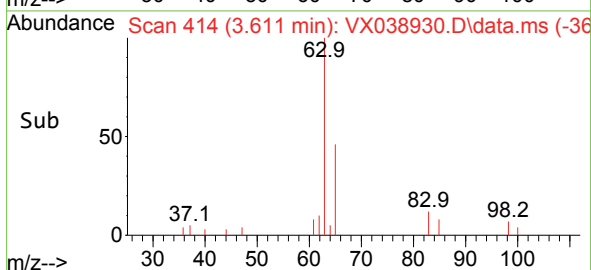
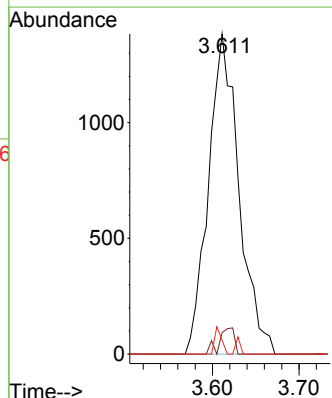
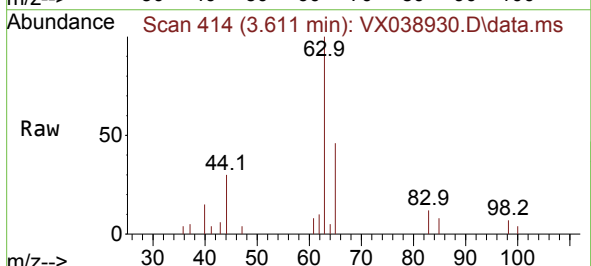
Tgt Ion: 63 Resp: 3381

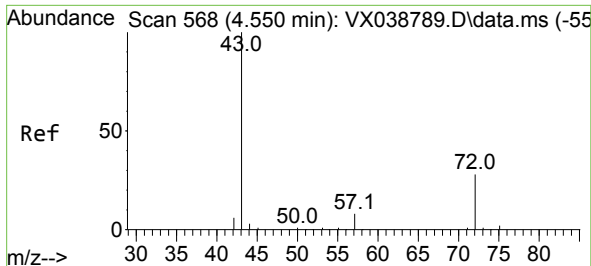
Ion Ratio Lower Upper

63 100

98 6.7 3.3 9.8

100 4.3 2.1 6.5

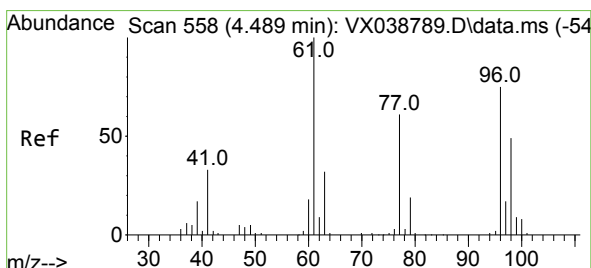
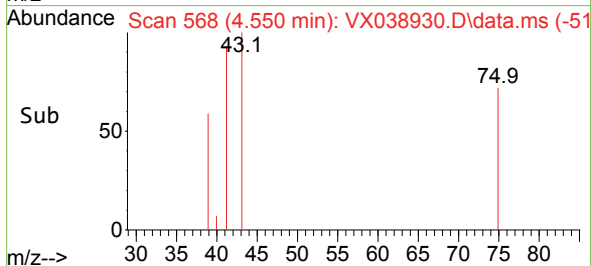
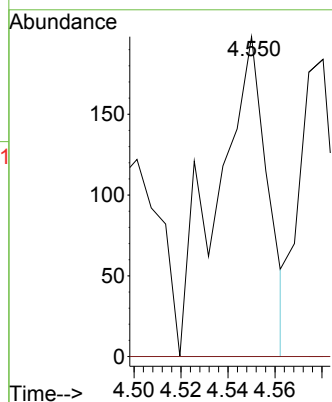
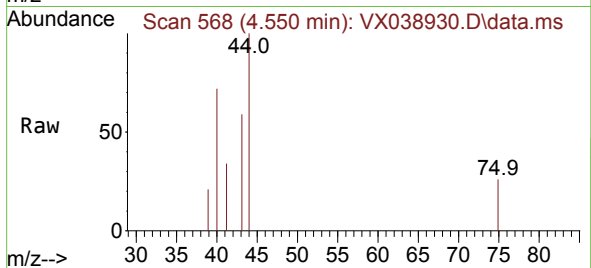




#25  
2-Butanone  
Concen: 0.206 ug/l  
RT: 4.550 min Scan# 50  
Delta R.T. 0.000 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

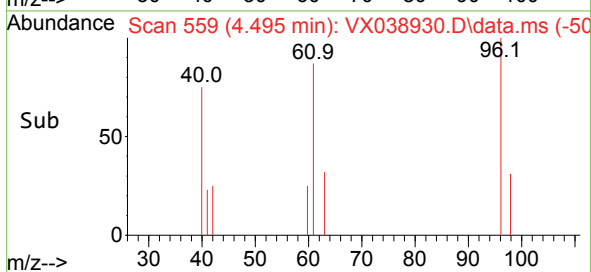
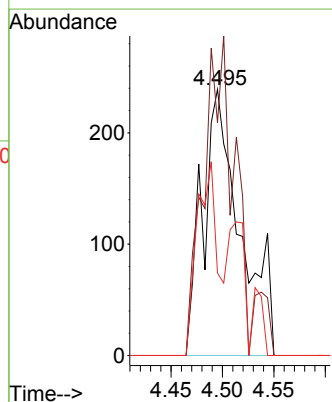
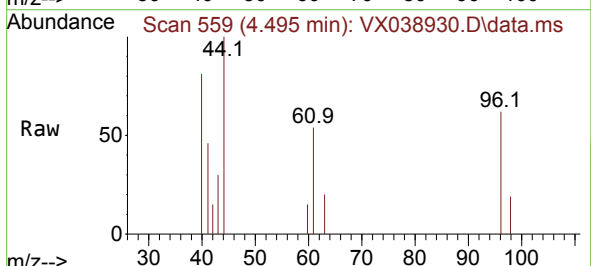
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Tgt Ion: 43 Resp: 296  
Ion Ratio Lower Upper  
43 100  
72 0.0 19.4 29.2#

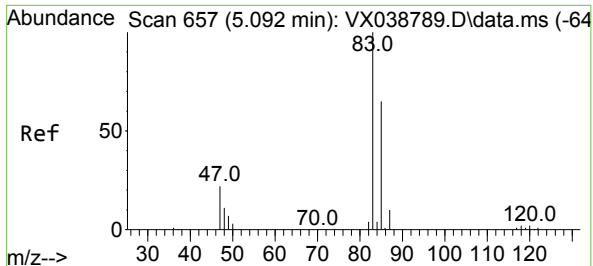


#27  
cis-1,2-Dichloroethene  
Concen: 0.366 ug/l  
RT: 4.495 min Scan# 559  
Delta R.T. 0.006 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

Tgt Ion: 96 Resp: 605  
Ion Ratio Lower Upper  
96 100  
61 100.2 0.0 312.2  
98 40.3 0.0 129.0







#30

Chloroform

Concen: 0.585 ug/l

RT: 5.099 min Scan# 61

Delta R.T. 0.006 min

Lab File: VX038930.D

Acq: 18 Nov 2023 15:55

Instrument :

MSVOA\_X

ClientSampleId :

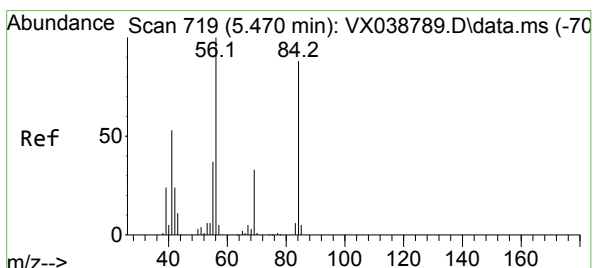
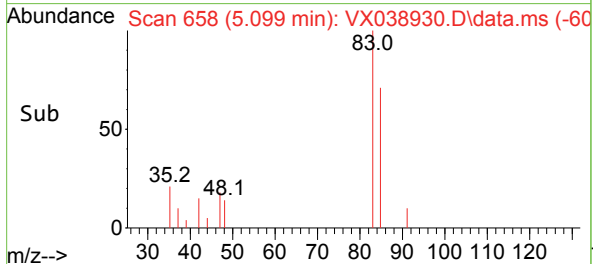
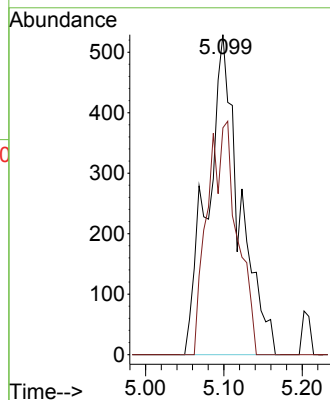
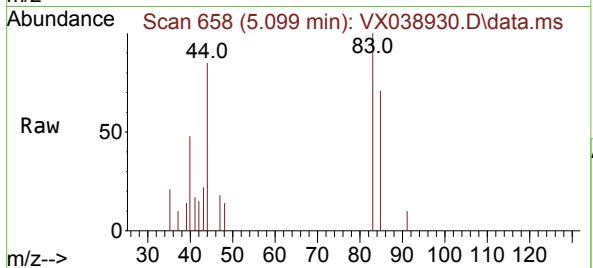
TT162S1-20231109

Tgt Ion: 83 Resp: 1508

Ion Ratio Lower Upper

83 100

85 70.9 50.3 75.5



#31

Cyclohexane

Concen: 1.310 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.079 min

Lab File: VX038930.D

Acq: 18 Nov 2023 15:55

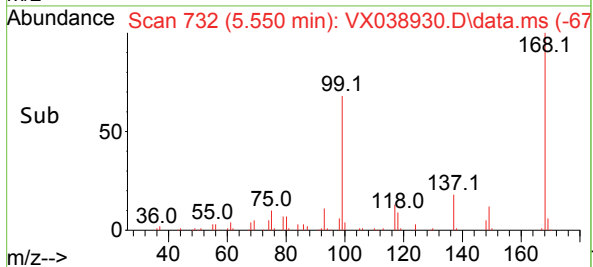
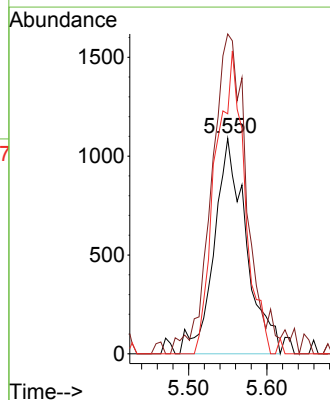
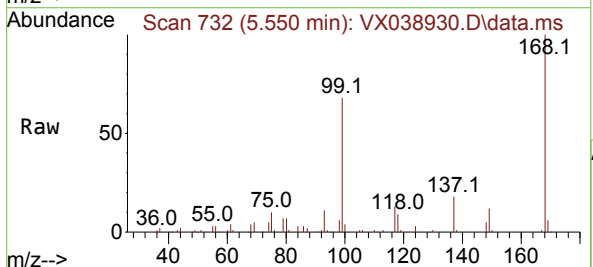
Tgt Ion: 56 Resp: 3111

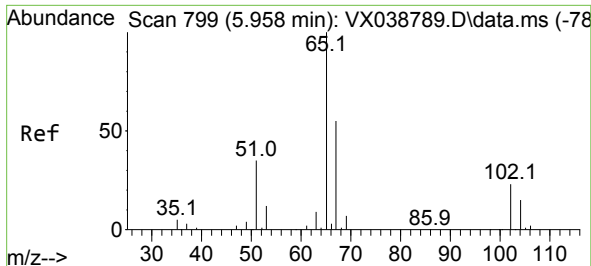
Ion Ratio Lower Upper

56 100

69 142.3 23.4 35.2#

84 111.4 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 49.969 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX038930.D

Acq: 18 Nov 2023 15:55

Instrument :

MSVOA\_X

ClientSampleId :

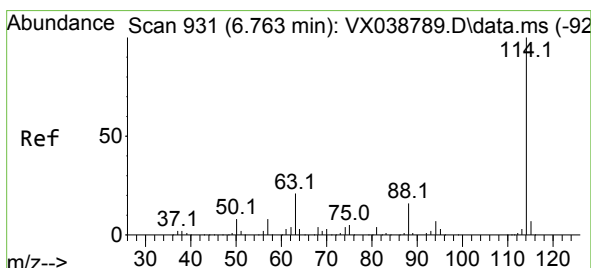
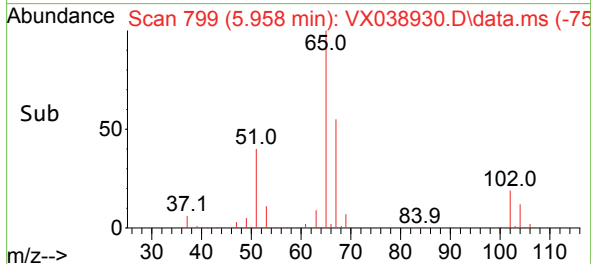
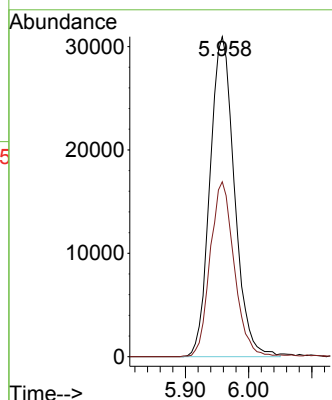
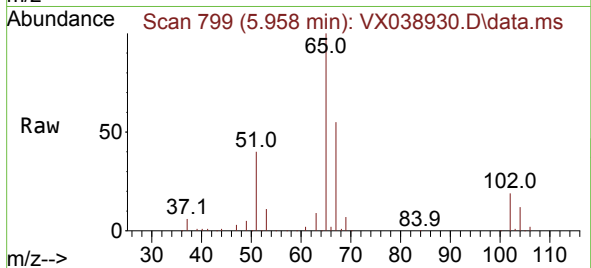
TT162S1-20231109

Tgt Ion: 65 Resp: 83096

Ion Ratio Lower Upper

65 100

67 53.7 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: VX038930.D

Acq: 18 Nov 2023 15:55

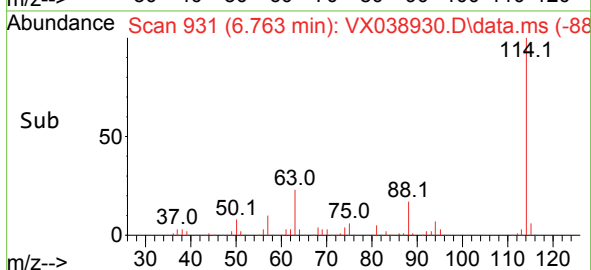
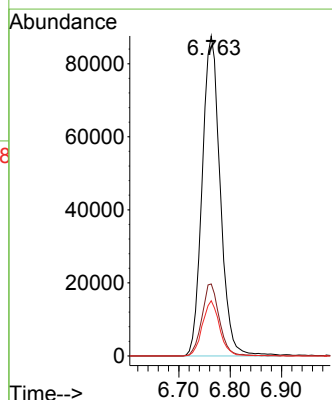
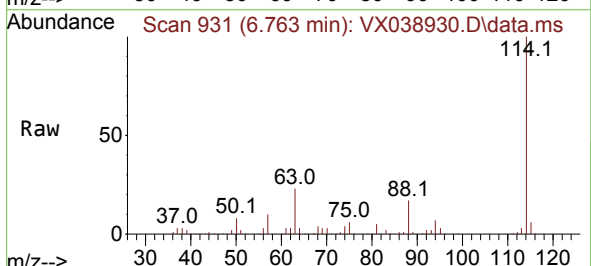
Tgt Ion:114 Resp: 213688

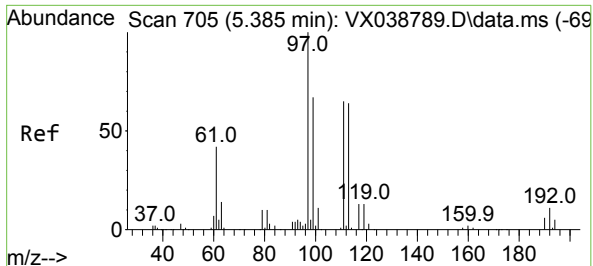
Ion Ratio Lower Upper

114 100

63 22.5 0.0 45.0

88 17.2 0.0 36.6

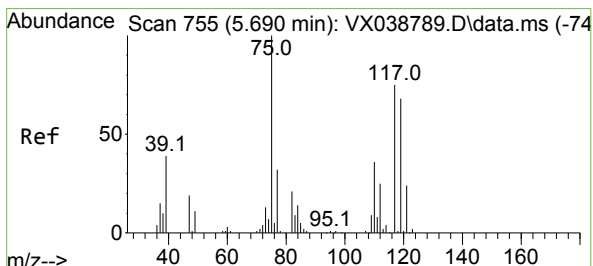
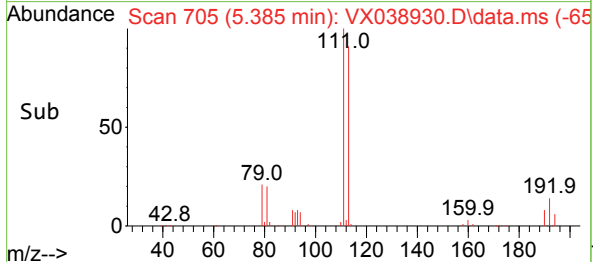
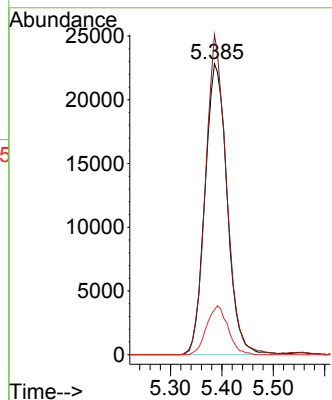
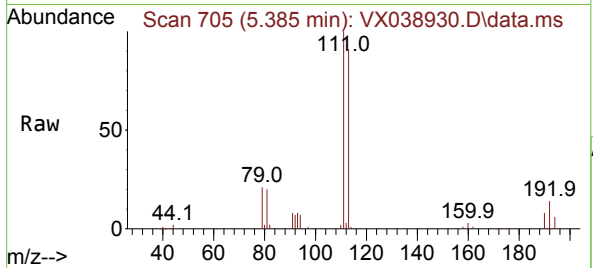




#35  
Dibromofluoromethane  
Concen: 44.416 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

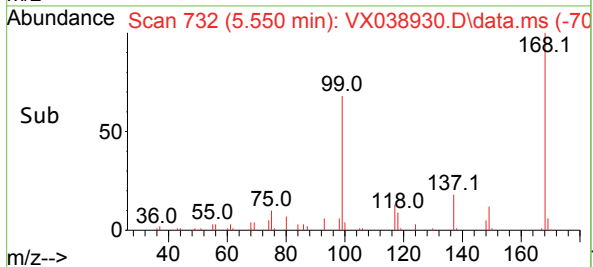
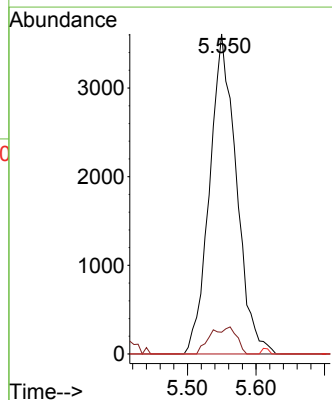
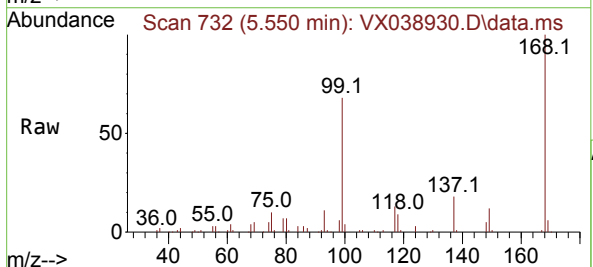
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT162S1-20231109

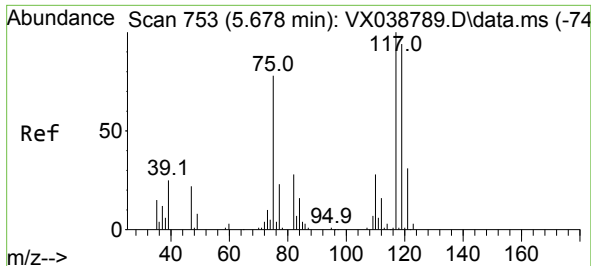
Tgt Ion:113 Resp: 68547  
Ion Ratio Lower Upper  
113 100  
111 103.5 82.9 124.3  
192 16.2 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.431 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

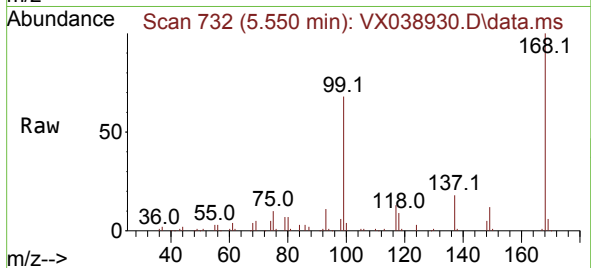
Tgt Ion: 75 Resp: 9800  
Ion Ratio Lower Upper  
75 100  
110 8.3 17.0 50.9#  
77 0.0 24.7 37.1#



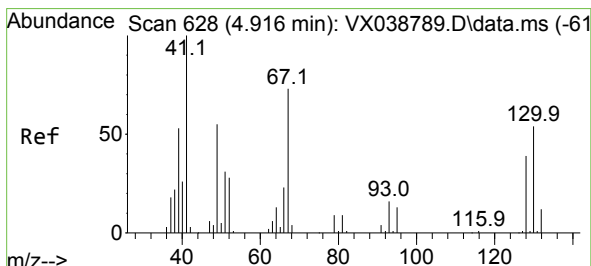
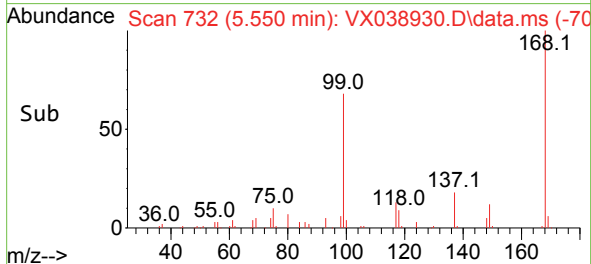
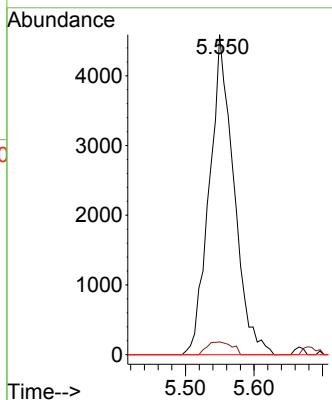


#38  
Carbon Tetrachloride  
Concen: 5.563 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

Instrument :  
MSVOA\_X  
ClientSampleId :  
TT162S1-20231109

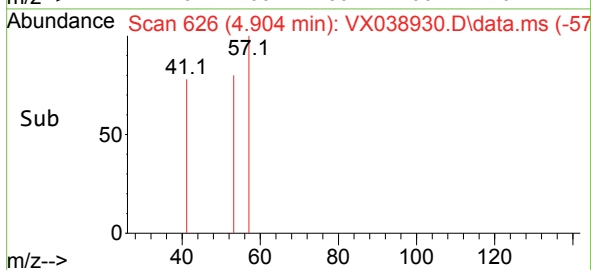
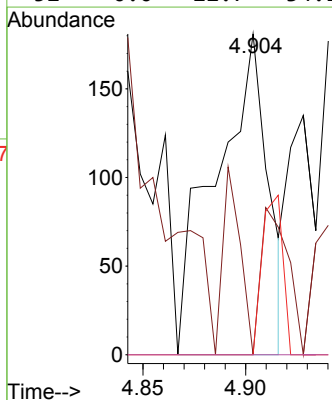
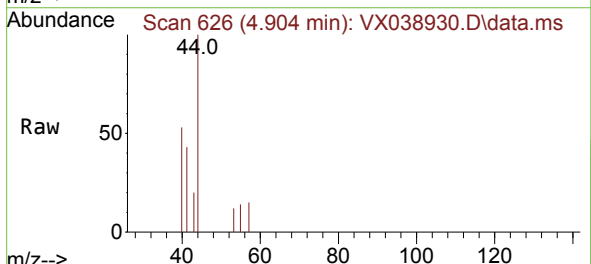


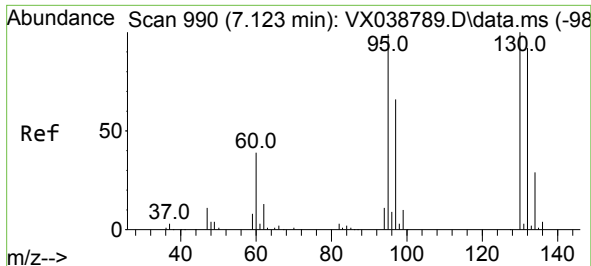
Tgt Ion:117 Resp: 11373  
Ion Ratio Lower Upper  
117 100  
119 4.0 78.2 117.2#  
121 0.0 24.4 36.6#



#41  
Methacrylonitrile  
Concen: 0.216 ug/l  
RT: 4.904 min Scan# 626  
Delta R.T. -0.012 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

Tgt Ion: 41 Resp: 323  
Ion Ratio Lower Upper  
41 100  
39 23.5 45.2 67.8#  
67 19.5 52.6 78.8#  
52 0.0 22.7 34.1#

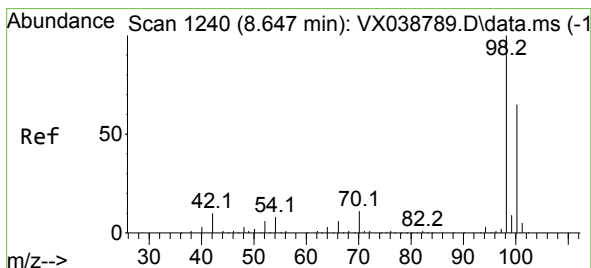
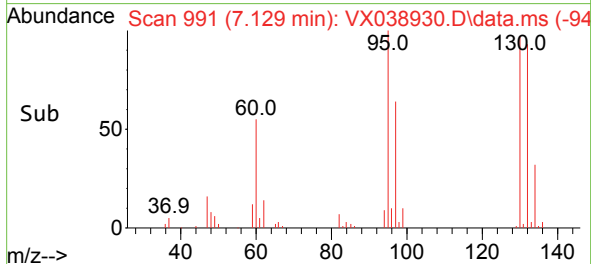
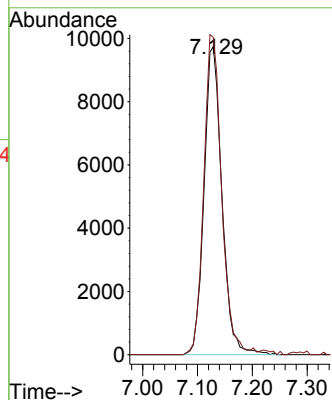
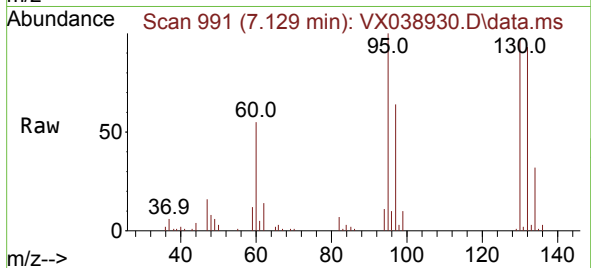




#44  
Trichloroethene  
Concen: 13.856 ug/l  
RT: 7.129 min Scan# 991  
Delta R.T. 0.006 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

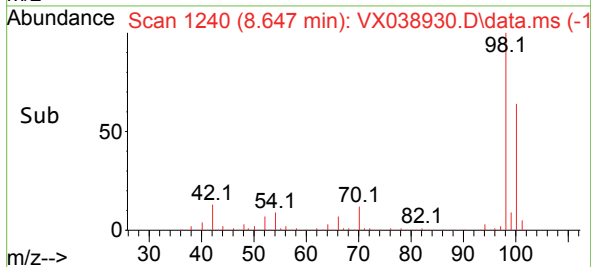
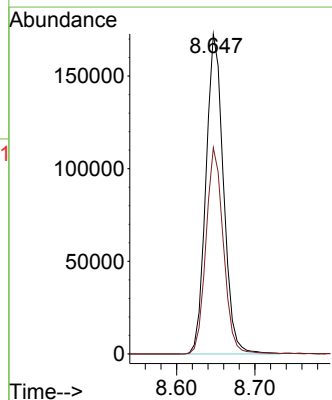
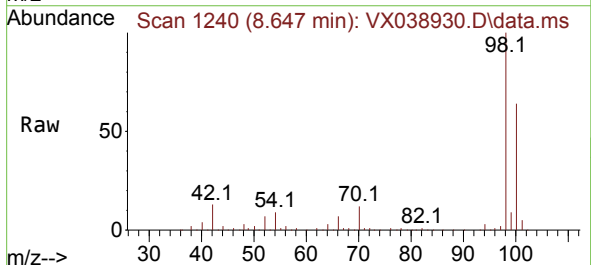
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT162S1-20231109

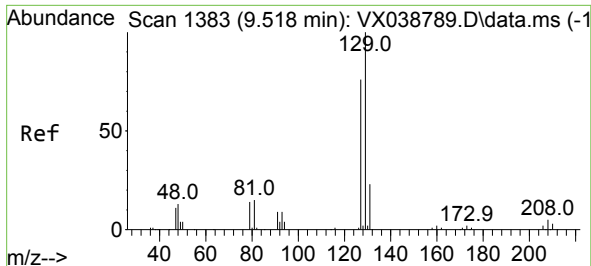
Tgt Ion:130 Resp: 22065  
Ion Ratio Lower Upper  
130 100  
95 103.0 0.0 204.4



#50  
Toluene-d8  
Concen: 45.446 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

Tgt Ion: 98 Resp: 268347  
Ion Ratio Lower Upper  
98 100  
100 63.9 53.1 79.7

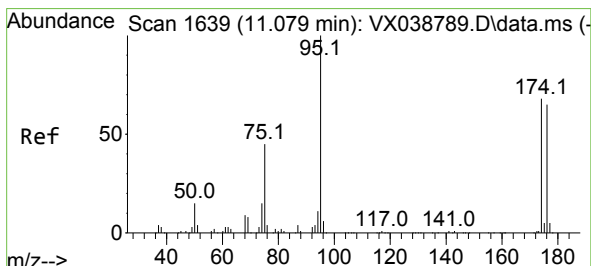
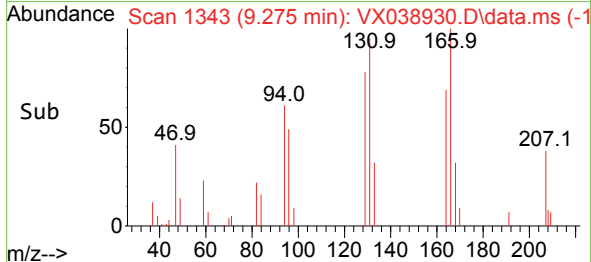
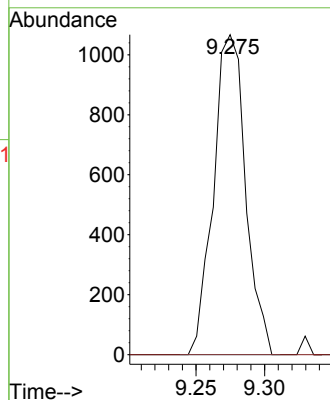
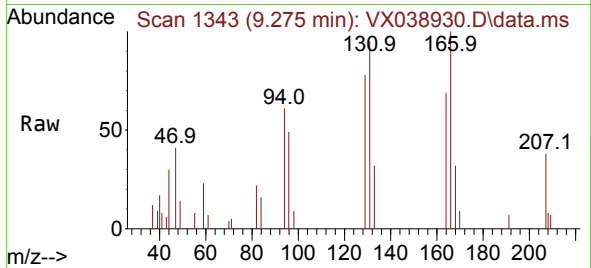




#60  
Dibromochloromethane  
Concen: 1.010 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.244 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

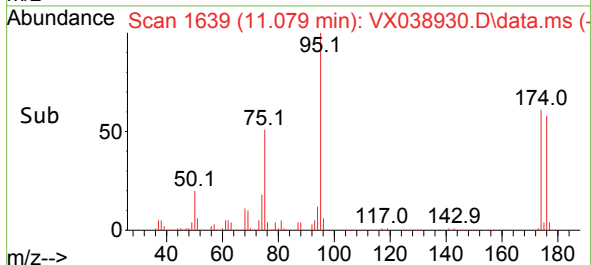
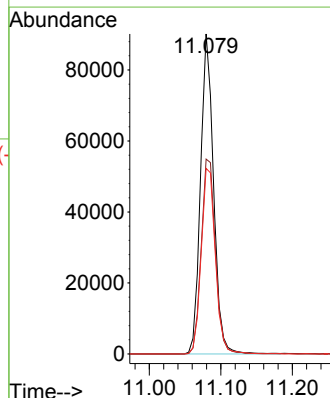
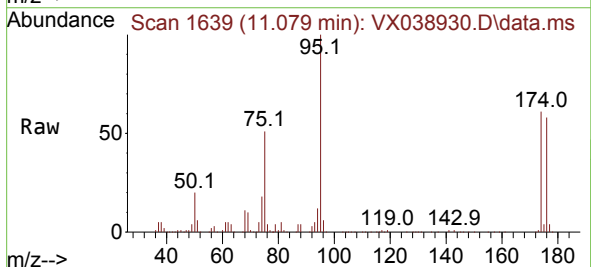
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT162S1-20231109

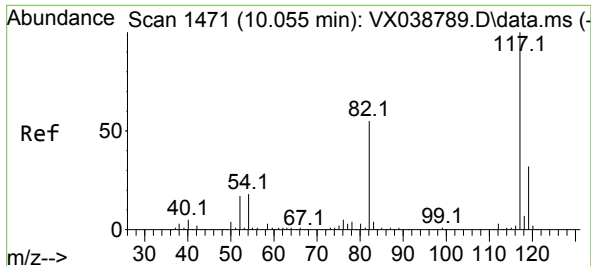
Tgt Ion:129 Resp: 1739  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#



#62  
4-Bromofluorobenzene  
Concen: 48.326 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

Tgt Ion: 95 Resp: 114228  
Ion Ratio Lower Upper  
95 100  
174 66.5 0.0 135.6  
176 62.9 0.0 131.0

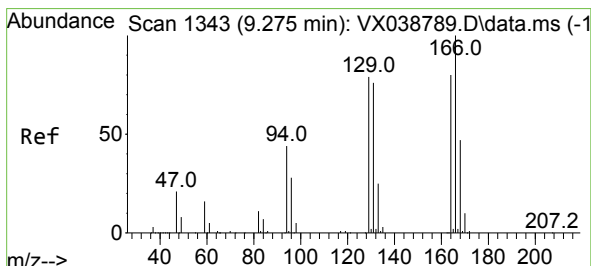
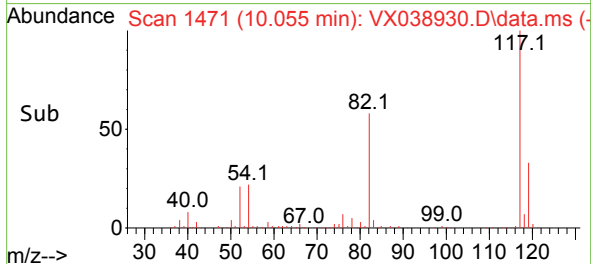
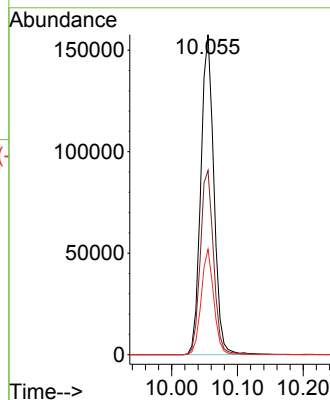
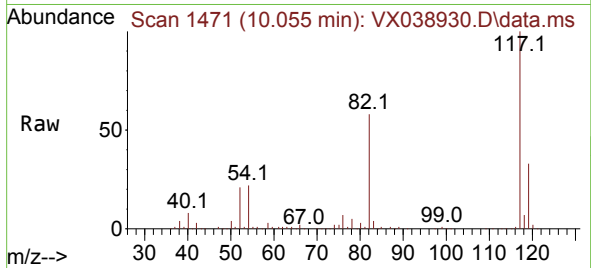




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

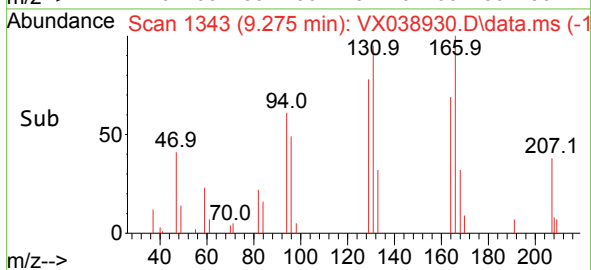
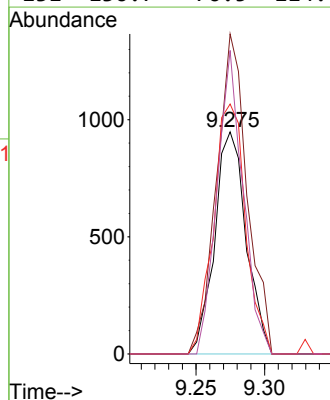
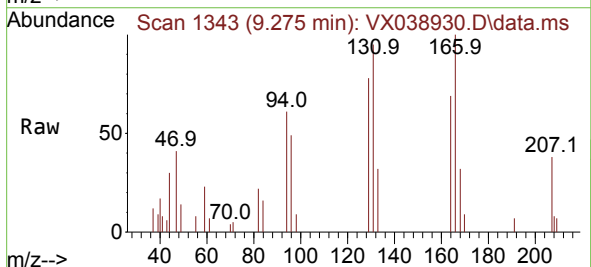
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT162S1-20231109

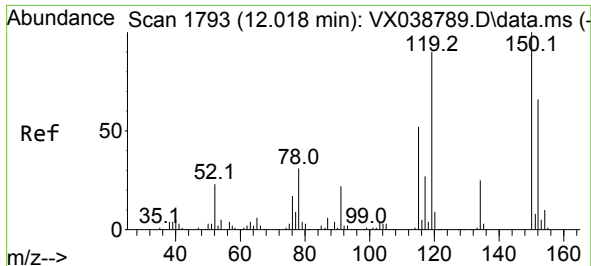
Tgt Ion:117 Resp: 217314  
Ion Ratio Lower Upper  
117 100  
82 57.6 46.2 69.4  
119 33.0 25.5 38.3



#64  
Tetrachloroethene  
Concen: 1.120 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. 0.000 min  
Lab File: VX038930.D  
Acq: 18 Nov 2023 15:55

Tgt Ion:164 Resp: 1513  
Ion Ratio Lower Upper  
164 100  
166 144.1 102.7 154.1  
129 112.6 80.4 120.6  
131 136.7 76.5 114.7#

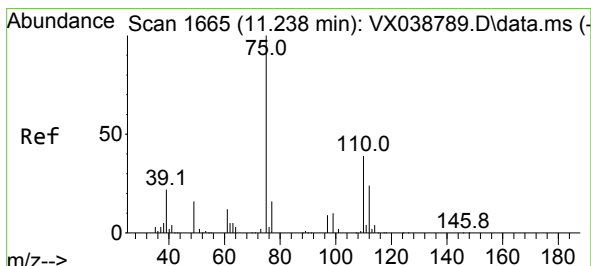
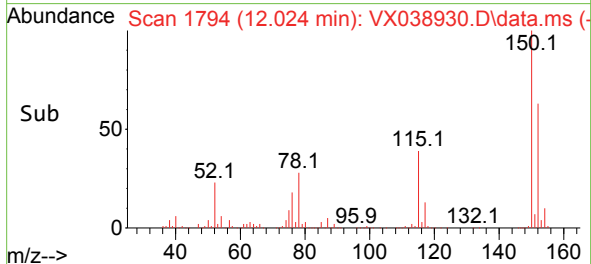
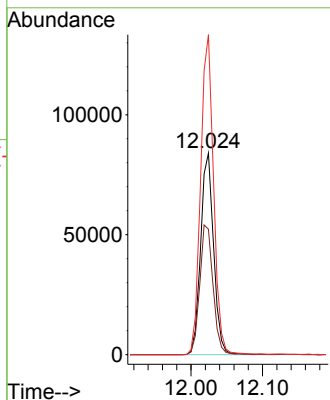
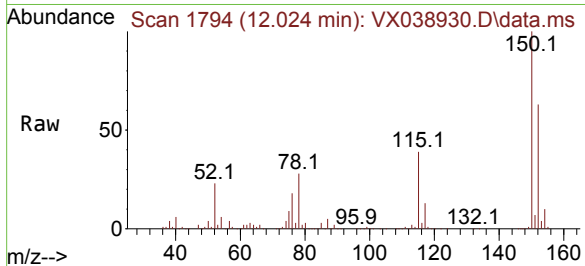




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 12.024 min Scan# 11  
 Delta R.T. 0.006 min  
 Lab File: VX038930.D  
 Acq: 18 Nov 2023 15:55

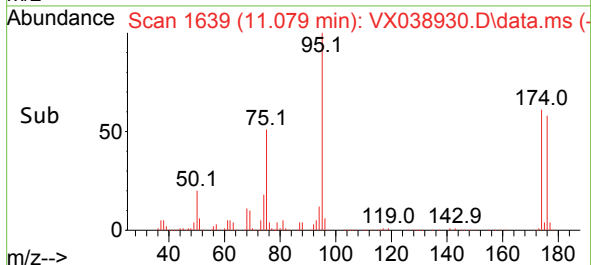
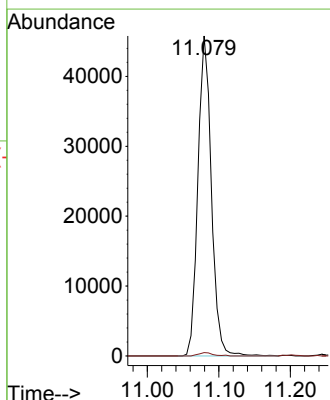
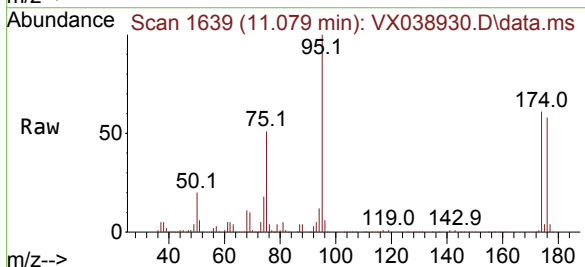
Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TT162S1-20231109

Tgt Ion:152 Resp: 105995  
 Ion Ratio Lower Upper  
 152 100  
 115 65.9 43.3 129.9  
 150 158.4 0.0 345.0

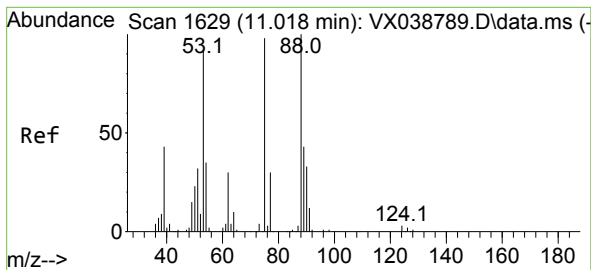


#76  
 1,2,3-Trichloropropane  
 Concen: 22.633 ug/l  
 RT: 11.079 min Scan# 1639  
 Delta R.T. -0.158 min  
 Lab File: VX038930.D  
 Acq: 18 Nov 2023 15:55

Tgt Ion: 75 Resp: 59854  
 Ion Ratio Lower Upper  
 75 100  
 77 1.1 19.1 57.5#







#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 50.202 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX038930.D  
 Acq: 18 Nov 2023 15:55

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TT162S1-20231109

Tgt Ion: 75 Resp: 59854  
 Ion Ratio Lower Upper  
 75 100  
 53 0.1 90.5 135.7#  
 89 0.0 36.9 55.3#

