

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111023\  
 Data File : VX038764.D  
 Acq On : 11 Nov 2023 07:04  
 Operator : JC/MD  
 Sample : 05350-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 53 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TT149S1-20231107

Quant Time: Nov 13 01:07:29 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X110723W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 08 03:19:07 2023  
 Response via : Initial Calibration

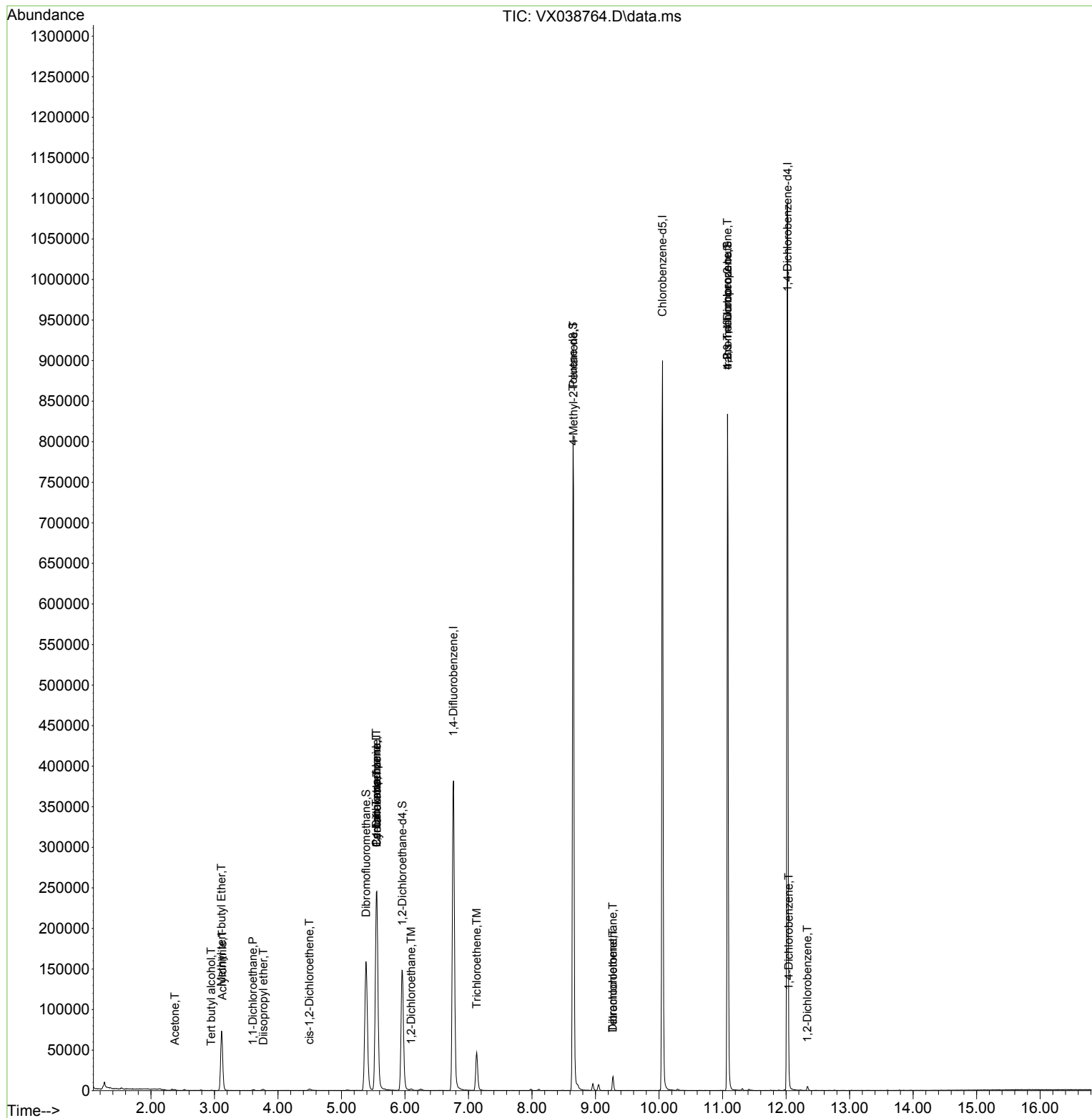
| Compound                      | R.T.           | QIon | Response   | Conc     | Units | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|-------|----------|
| -----                         |                |      |            |          |       |          |
| Internal Standards            |                |      |            |          |       |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 261382     | 50.000   | ug/l  | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 430285     | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 450592     | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 257229     | 50.000   | ug/l  | 0.00     |
|                               |                |      |            |          |       |          |
| System Monitoring Compounds   |                |      |            |          |       |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 151217     | 46.469   | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 92.940%  |       |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 141793     | 45.754   | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 91.500%  |       |          |
| 50) Toluene-d8                | 8.647          | 98   | 512689     | 46.232   | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 92.460%  |       |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 218135     | 50.734   | ug/l  | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 101.460% |       |          |
|                               |                |      |            |          |       |          |
| Target Compounds              |                |      |            |          |       | Qvalue   |
| 11) Tert butyl alcohol        | 2.946          | 59   | 363        | 0.546    | ug/l  | # 78     |
| 15) Acrylonitrile             | 3.123          | 53   | 982        | 0.699    | ug/l  | # 26     |
| 16) Acetone                   | 2.380          | 43   | 1203       | 0.878    | ug/l  | 93       |
| 19) Methyl tert-butyl Ether   | 3.111          | 73   | 84696      | 10.858   | ug/l  | 95       |
| 22) Diisopropyl ether         | 3.770          | 45   | 1497       | 0.227    | ug/l  | # 77     |
| 24) 1,1-Dichloroethane        | 3.605          | 63   | 1442       | 0.331    | ug/l  | # 83     |
| 27) cis-1,2-Dichloroethene    | 4.495          | 96   | 1297       | 0.423    | ug/l  | 71       |
| 31) Cyclohexane               | 5.556          | 56   | 4259       | 1.183    | ug/l  | # 1      |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 17185      | 4.464    | ug/l  | # 52     |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 24567      | 5.709    | ug/l  | # 15     |
| 42) 1,2-Dichloroethane        | 6.098          | 62   | 1932       | 0.483    | ug/l  | 100      |
| 44) Trichloroethene           | 7.129          | 130  | 20018      | 5.802    | ug/l  | 87       |
| 51) 4-Methyl-2-Pentanone      | 8.653          | 43   | 1622       | 0.412    | ug/l  | # 1      |
| 60) Dibromochloromethane      | 9.275          | 129  | 3091       | 0.893    | ug/l  | # 11     |
| 64) Tetrachloroethene         | 9.275          | 164  | 3499       | 1.037    | ug/l  | 94       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 106824     | 20.969   | ug/l  | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 106824     | 63.750   | ug/l  | # 5      |
| 88) 1,4-Dichlorobenzene       | 12.042         | 146  | 2281       | 0.268    | ug/l  | # 1      |
| 91) 1,2-Dichlorobenzene       | 12.335         | 146  | 2080       | 0.257    | ug/l  | 92       |
| -----                         |                |      |            |          |       |          |

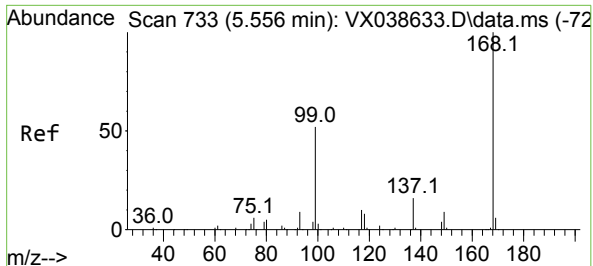
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Wed Nov 08 03:19:07 2023  
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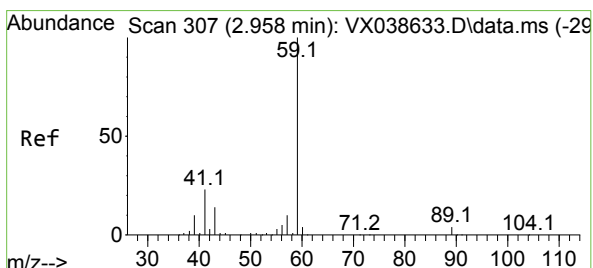
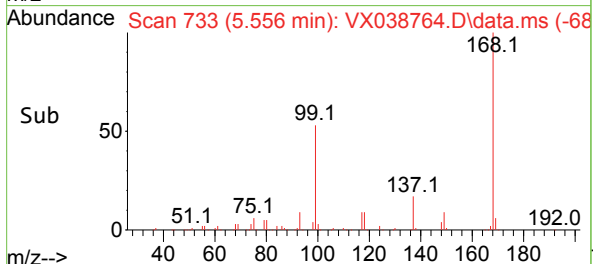
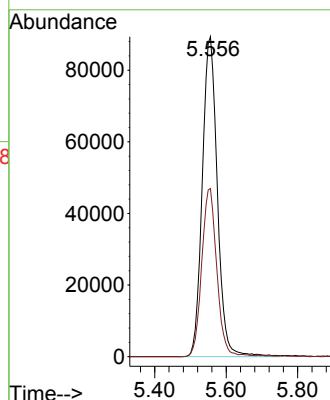
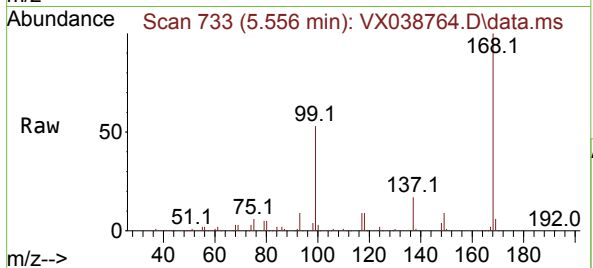




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

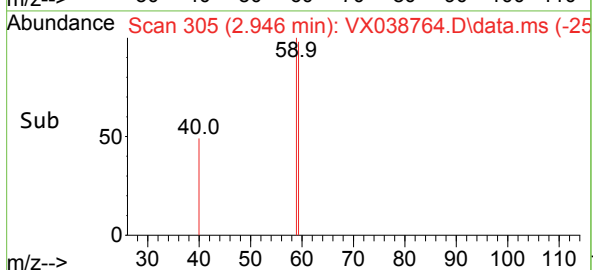
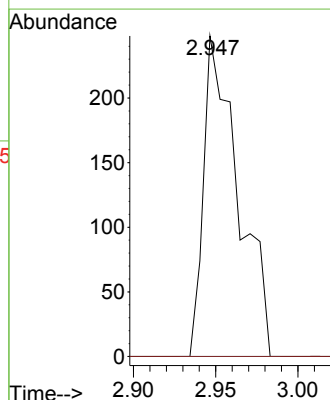
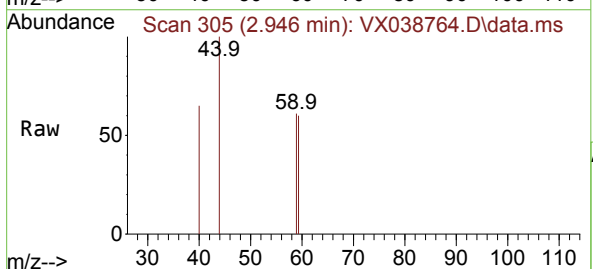
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT149S1-20231107

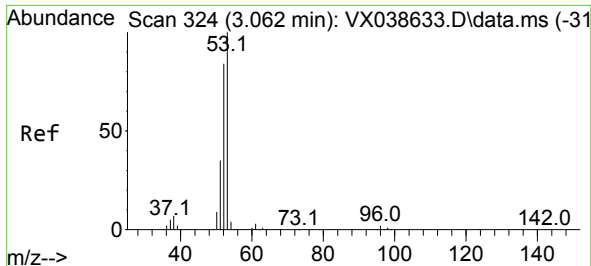
Tgt Ion:168 Resp: 261382  
Ion Ratio Lower Upper  
168 100  
99 52.5 56.6 85.0#



#11  
Tert butyl alcohol  
Concen: 0.546 ug/l  
RT: 2.946 min Scan# 305  
Delta R.T. -0.012 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

Tgt Ion: 59 Resp: 363  
Ion Ratio Lower Upper  
59 100  
57 0.0 6.0 9.0#

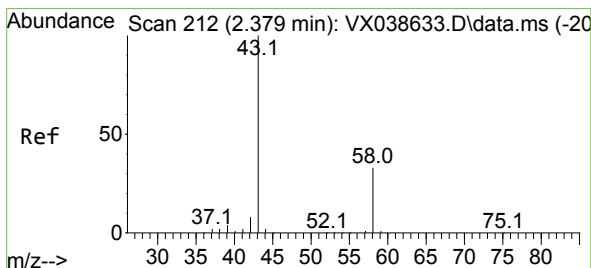
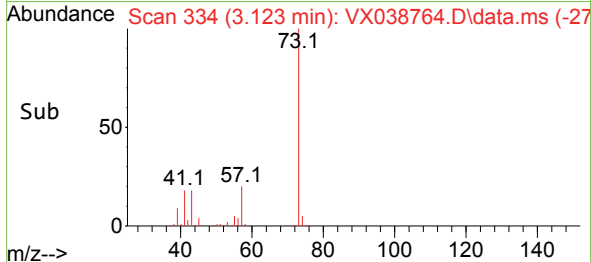
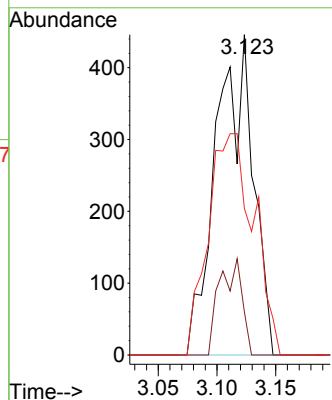
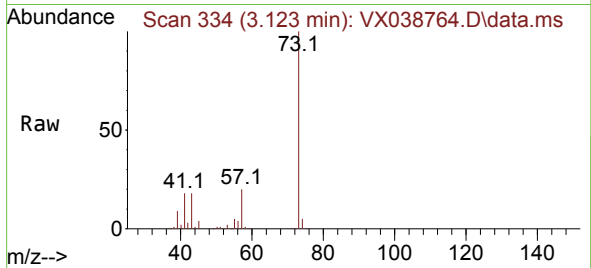




#15  
Acrylonitrile  
Concen: 0.699 ug/l  
RT: 3.123 min Scan# 31  
Delta R.T. 0.061 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

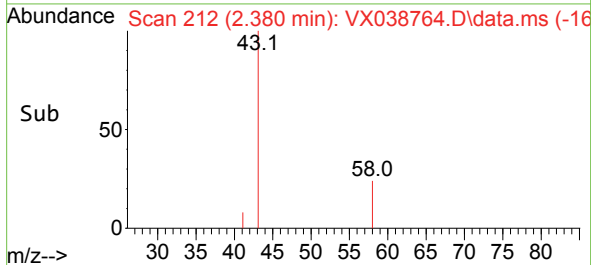
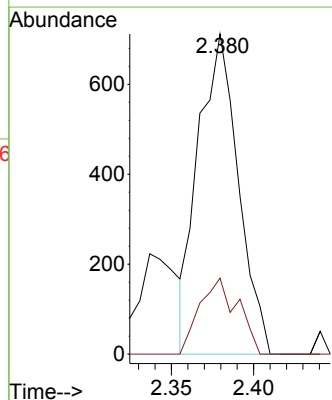
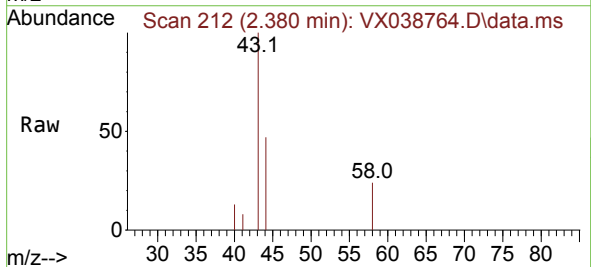
Instrument :  
MSVOA\_X  
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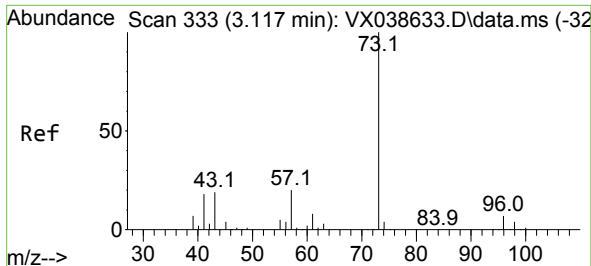
Tgt Ion: 53 Resp: 982  
Ion Ratio Lower Upper  
53 100  
52 18.2 66.0 99.0#  
51 84.8 29.8 44.6#



#16  
Acetone  
Concen: 0.878 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.000 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

Tgt Ion: 43 Resp: 1203  
Ion Ratio Lower Upper  
43 100  
58 23.7 21.9 32.9

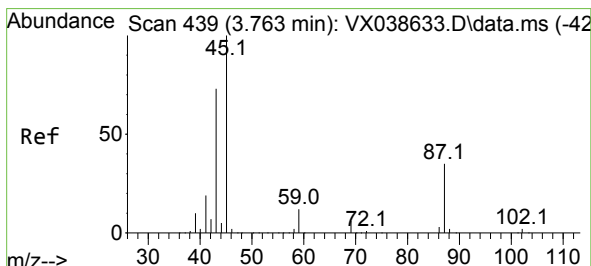
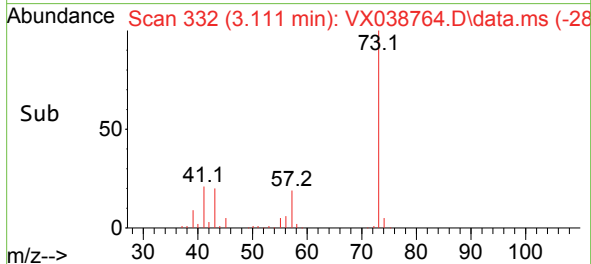
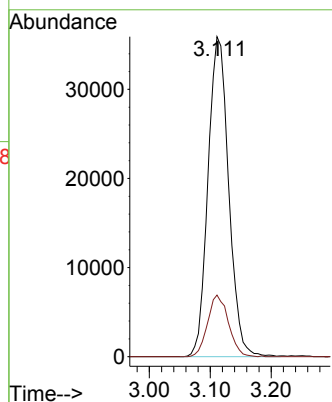
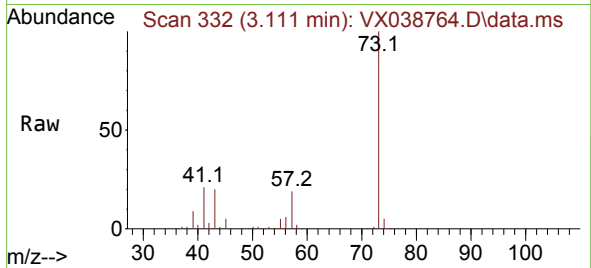




#19  
Methyl tert-butyl Ether  
Concen: 10.858 ug/l  
RT: 3.111 min Scan# 311  
Delta R.T. -0.006 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

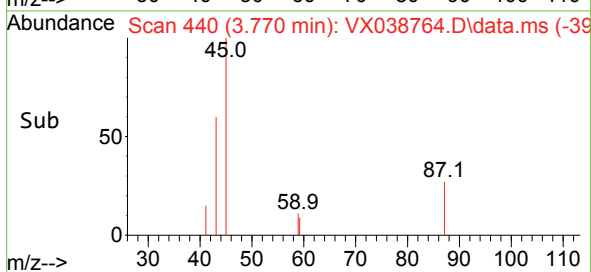
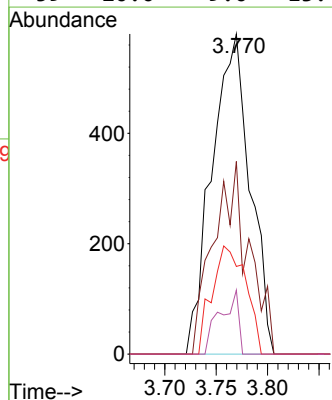
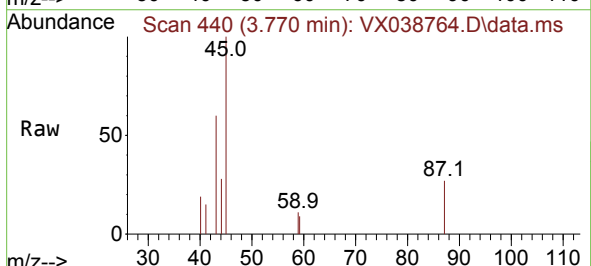
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT149S1-20231107

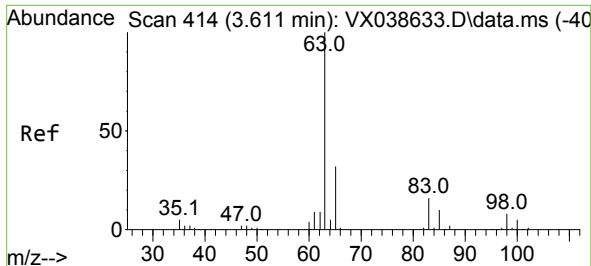
Tgt Ion: 73 Resp: 84696  
Ion Ratio Lower Upper  
73 100  
57 19.2 17.3 25.9



#22  
Diisopropyl ether  
Concen: 0.227 ug/l  
RT: 3.770 min Scan# 440  
Delta R.T. 0.006 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

Tgt Ion: 45 Resp: 1497  
Ion Ratio Lower Upper  
45 100  
43 60.2 69.7 104.5#  
87 27.4 20.8 31.2  
59 20.0 9.0 13.4#

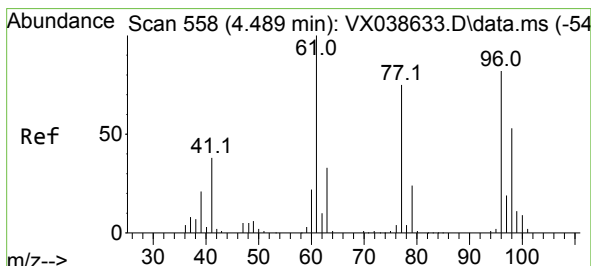
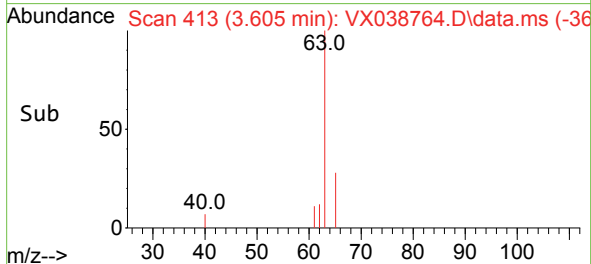
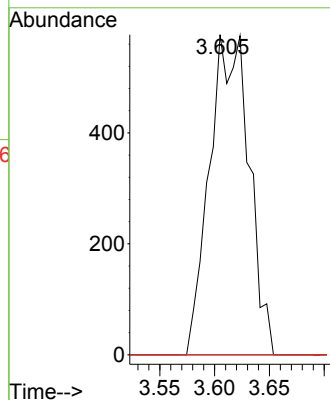
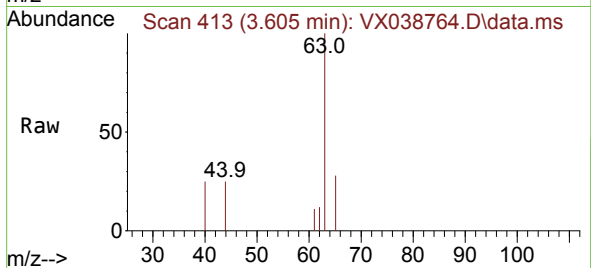




#24  
1,1-Dichloroethane  
Concen: 0.331 ug/l  
RT: 3.605 min Scan# 41  
Delta R.T. -0.006 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

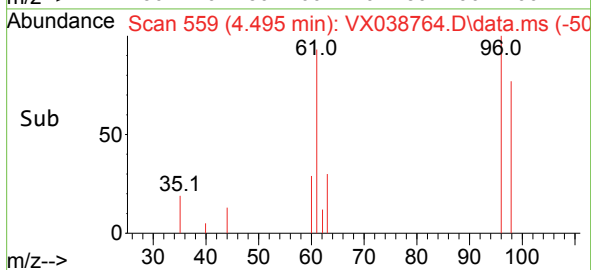
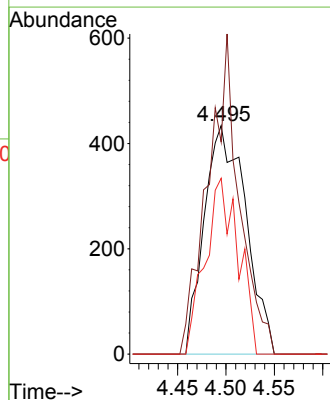
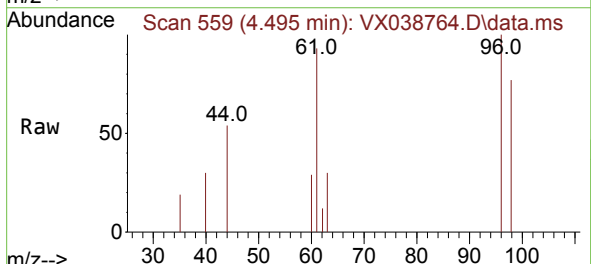
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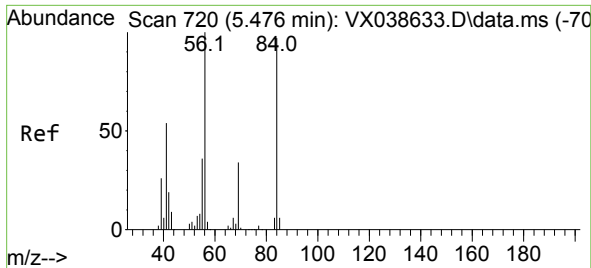
Tgt Ion: 63 Resp: 1442  
Ion Ratio Lower Upper  
63 100  
98 0.0 3.3 9.8#  
100 0.0 2.1 6.5#



#27  
cis-1,2-Dichloroethene  
Concen: 0.423 ug/l  
RT: 4.495 min Scan# 559  
Delta R.T. 0.006 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

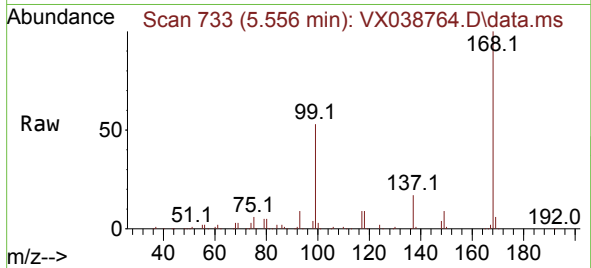
Tgt Ion: 96 Resp: 1297  
Ion Ratio Lower Upper  
96 100  
61 105.5 0.0 312.2  
98 61.4 0.0 129.0



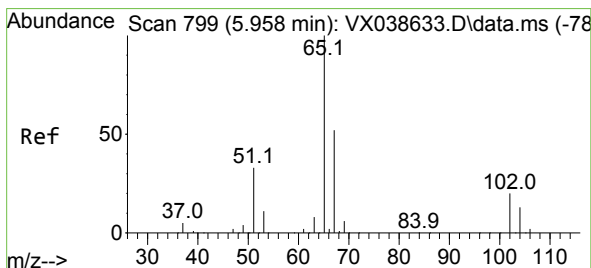
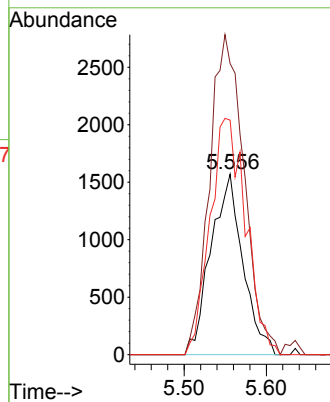
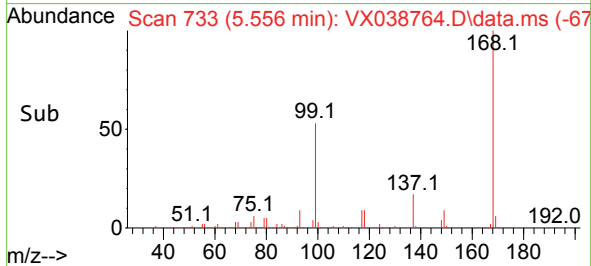


#31  
Cyclohexane  
Concen: 1.183 ug/l  
RT: 5.556 min Scan# 719  
Delta R.T. 0.080 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

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ClientSampleId :  
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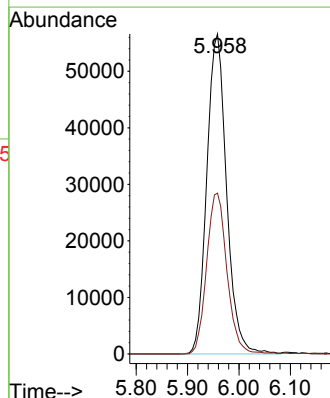
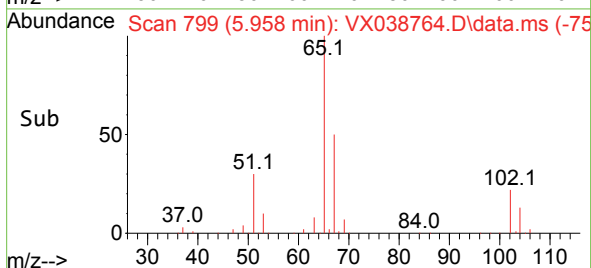
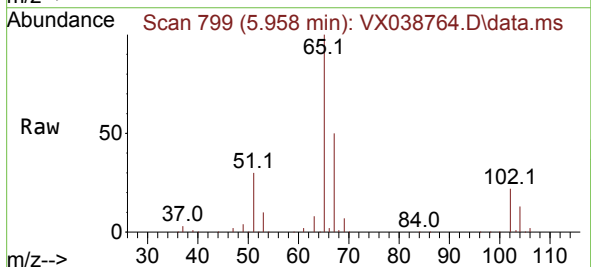


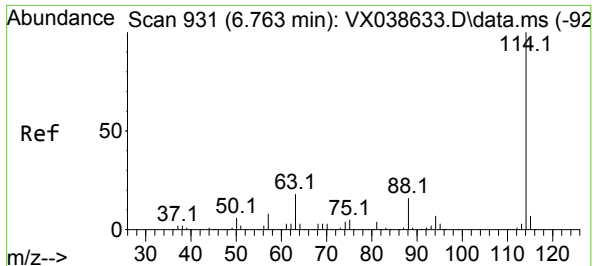
Tgt Ion: 56 Resp: 4259  
Ion Ratio Lower Upper  
56 100  
69 161.3 23.4 35.2#  
84 130.0 65.9 98.9#



#33  
1,2-Dichloroethane-d4  
Concen: 46.469 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

Tgt Ion: 65 Resp: 151217  
Ion Ratio Lower Upper  
65 100  
67 51.7 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: VX038764.D

Acq: 11 Nov 2023 07:04

Instrument :

MSVOA\_X

ClientSampleId :

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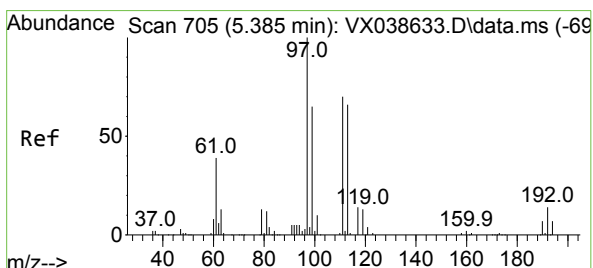
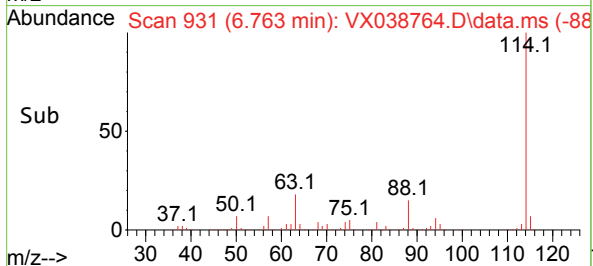
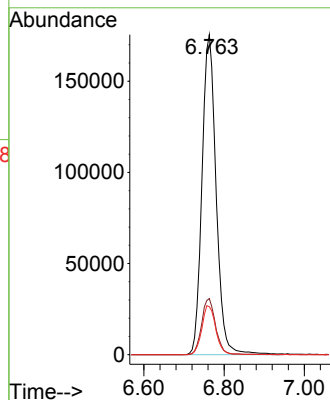
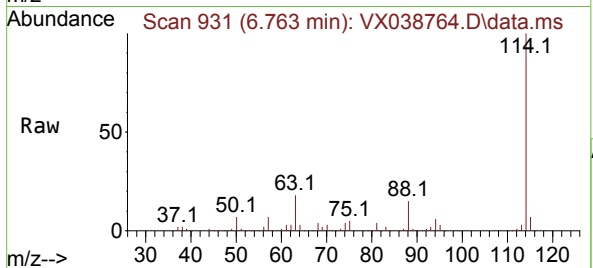
Tgt Ion:114 Resp: 430285

Ion Ratio Lower Upper

114 100

63 17.5 0.0 45.0

88 15.0 0.0 36.6



#35

Dibromofluoromethane

Concen: 45.754 ug/l

RT: 5.385 min Scan# 705

Delta R.T. 0.000 min

Lab File: VX038764.D

Acq: 11 Nov 2023 07:04

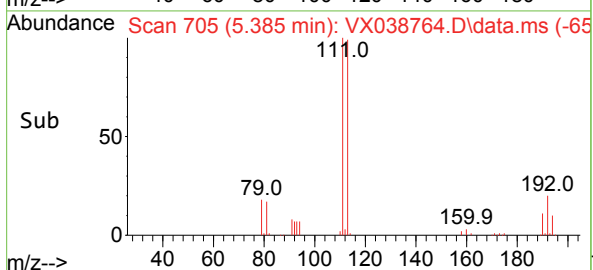
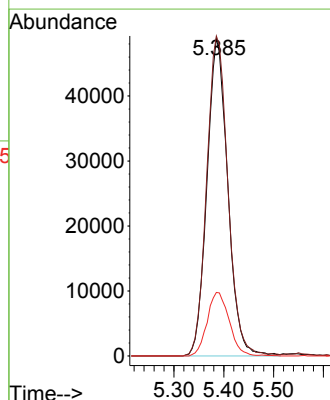
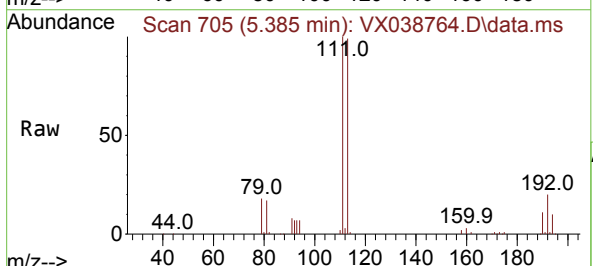
Tgt Ion:113 Resp: 141793

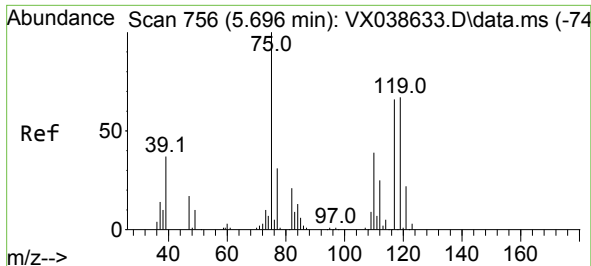
Ion Ratio Lower Upper

113 100

111 103.0 82.9 124.3

192 21.1 13.3 19.9#

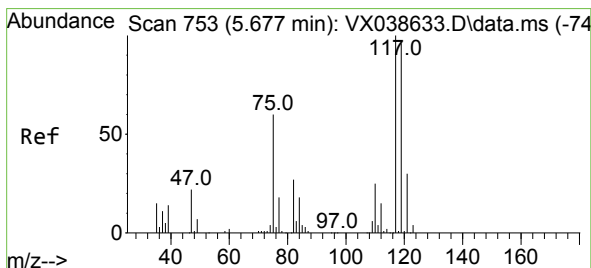
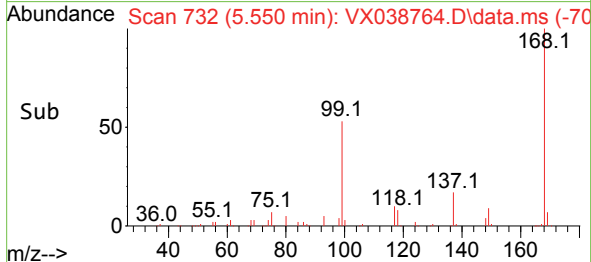
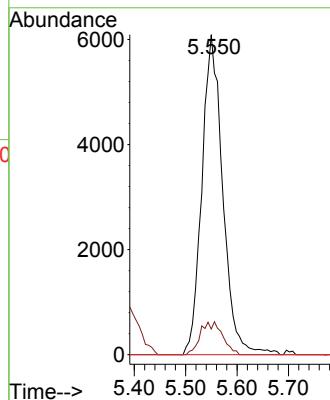
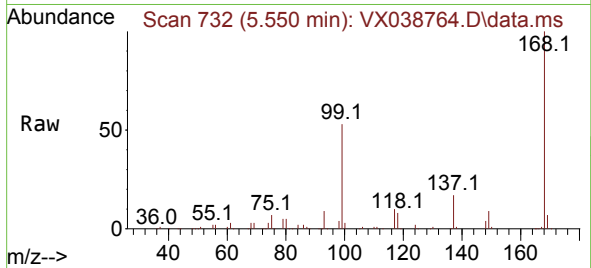




#36  
1,1-Dichloropropene  
Concen: 4.464 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.146 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

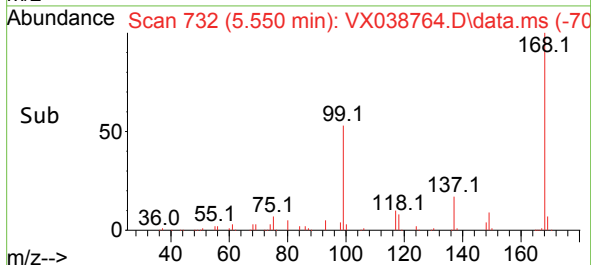
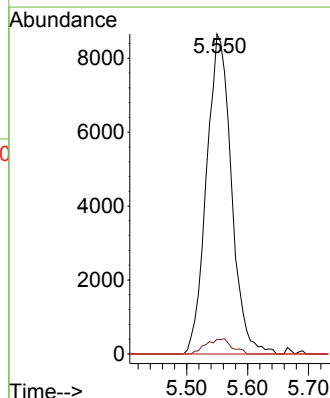
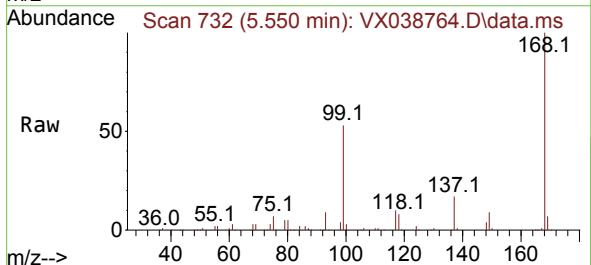
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT149S1-20231107

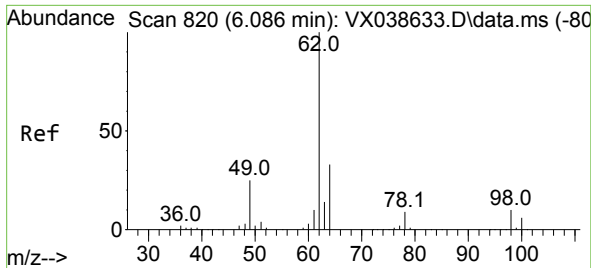
Tgt Ion: 75 Resp: 17185  
Ion Ratio Lower Upper  
75 100  
110 10.9 17.0 50.9#  
77 0.0 24.7 37.1#



#38  
Carbon Tetrachloride  
Concen: 5.709 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.128 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

Tgt Ion: 117 Resp: 24567  
Ion Ratio Lower Upper  
117 100  
119 4.6 78.2 117.2#  
121 0.0 24.4 36.6#





#42

1,2-Dichloroethane

Concen: 0.483 ug/l

RT: 6.098 min Scan# 81

Delta R.T. 0.012 min

Lab File: VX038764.D

Acq: 11 Nov 2023 07:04

Instrument :

MSVOA\_X

ClientSampleId :

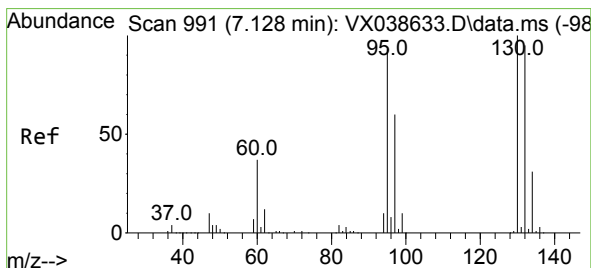
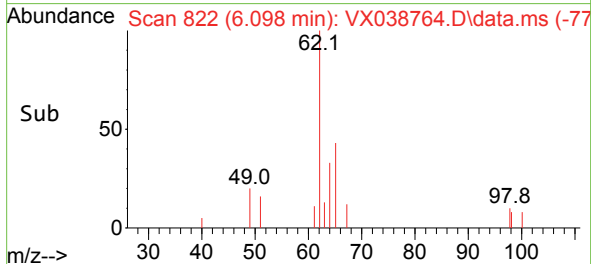
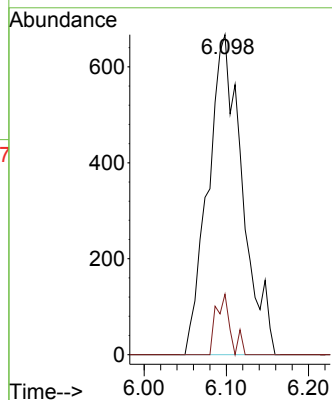
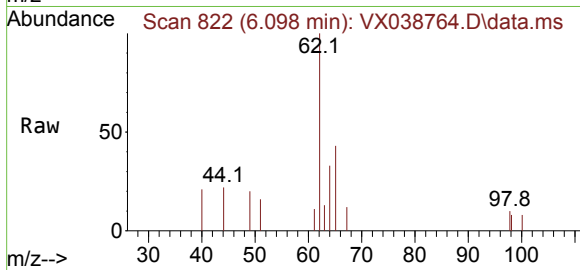
TT149S1-20231107

Tgt Ion: 62 Resp: 1932

Ion Ratio Lower Upper

62 100

98 7.9 0.0 16.0



#44

Trichloroethene

Concen: 5.802 ug/l

RT: 7.129 min Scan# 991

Delta R.T. 0.000 min

Lab File: VX038764.D

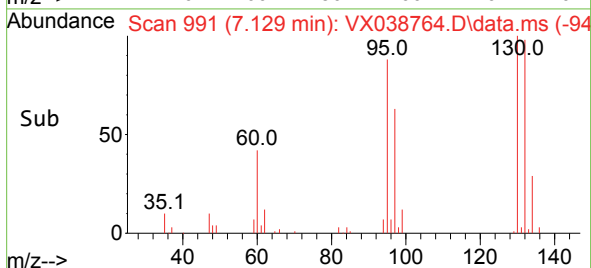
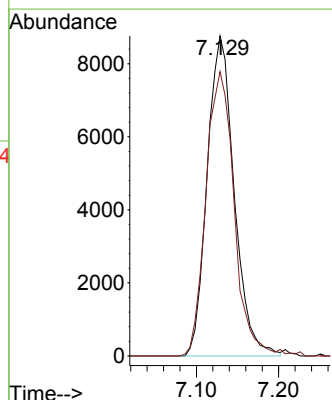
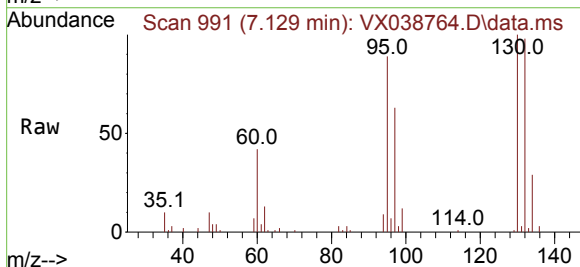
Acq: 11 Nov 2023 07:04

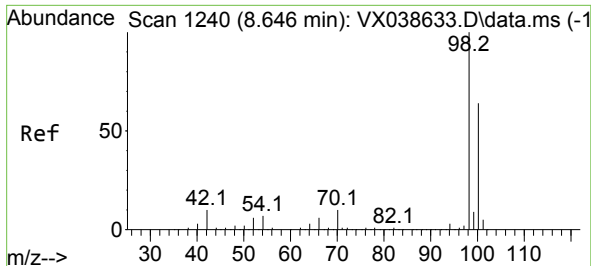
Tgt Ion:130 Resp: 20018

Ion Ratio Lower Upper

130 100

95 88.9 0.0 204.4

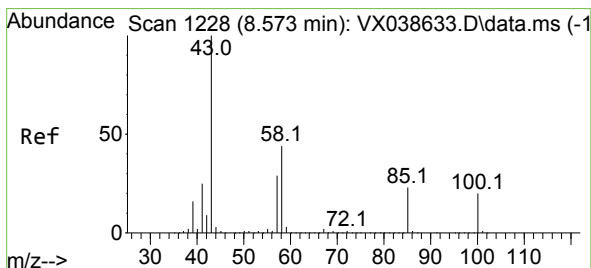
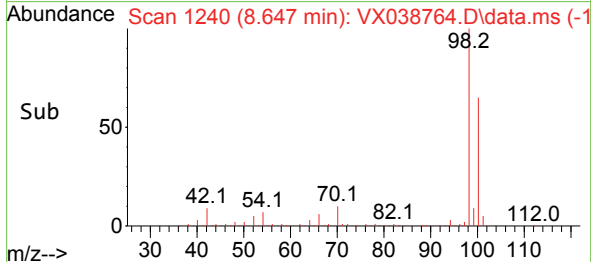
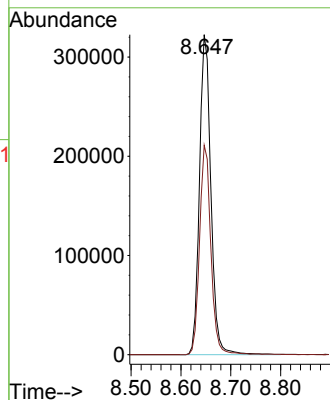
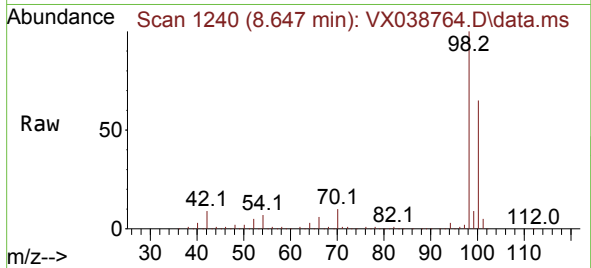




#50  
Toluene-d8  
Concen: 46.232 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

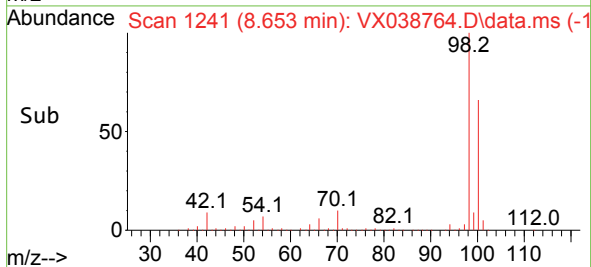
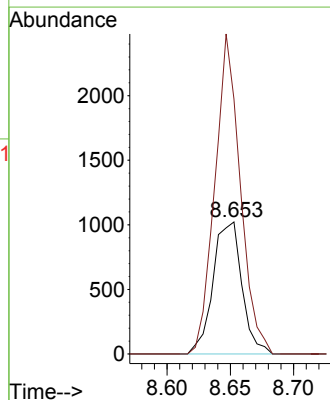
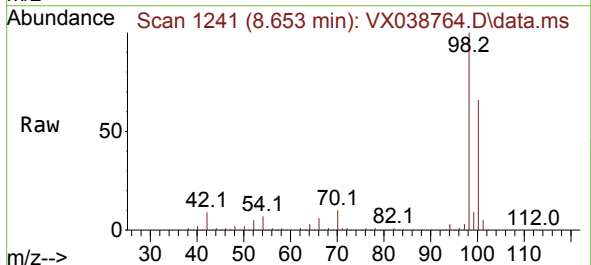
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT149S1-20231107

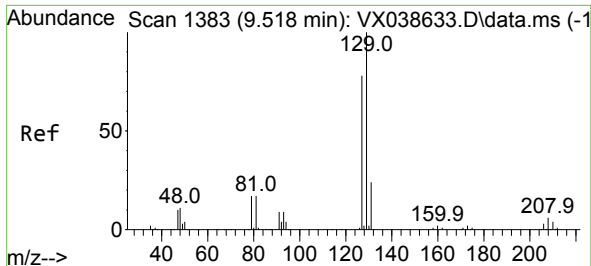
Tgt Ion: 98 Resp: 512689  
Ion Ratio Lower Upper  
98 100  
100 64.8 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.412 ug/l  
RT: 8.653 min Scan# 1241  
Delta R.T. 0.080 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

Tgt Ion: 43 Resp: 1622  
Ion Ratio Lower Upper  
43 100  
58 213.4 30.4 45.6#

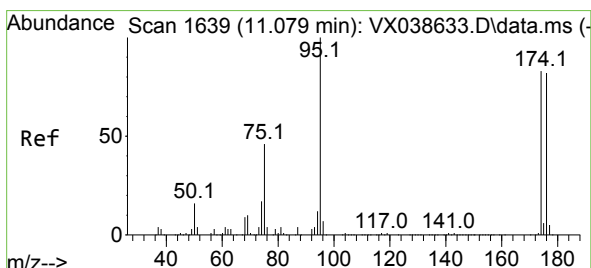
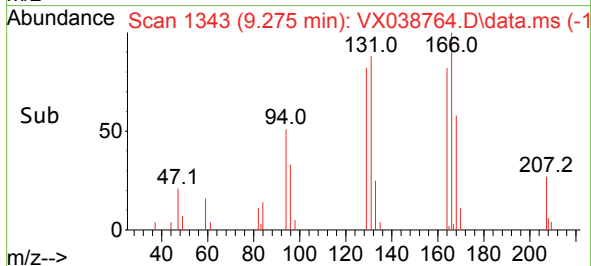
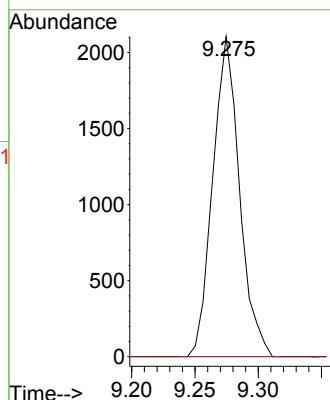
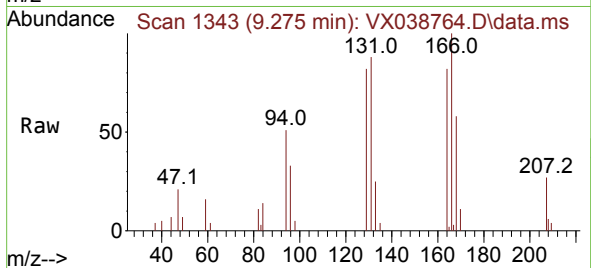




#60  
Dibromochloromethane  
Concen: 0.893 ug/l  
RT: 9.275 min Scan# 11  
Delta R.T. -0.244 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

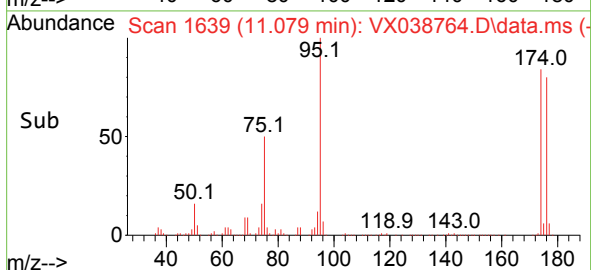
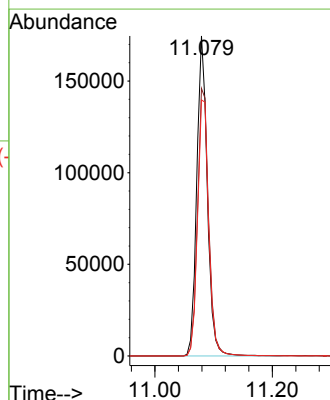
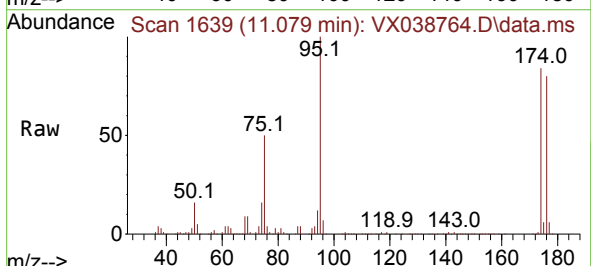
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT149S1-20231107

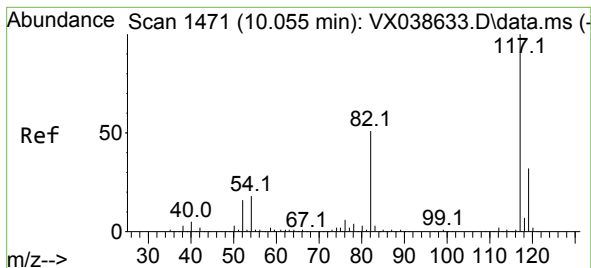
Tgt Ion:129 Resp: 3091  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.8 116.4#



#62  
4-Bromofluorobenzene  
Concen: 50.734 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

Tgt Ion: 95 Resp: 218135  
Ion Ratio Lower Upper  
95 100  
174 88.5 0.0 135.6  
176 85.2 0.0 131.0

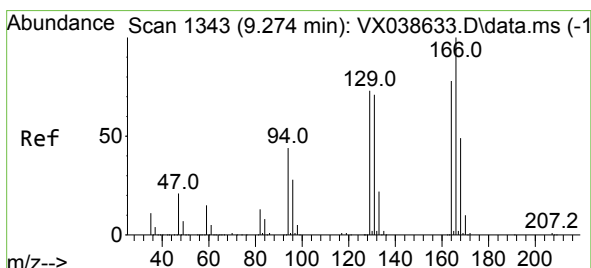
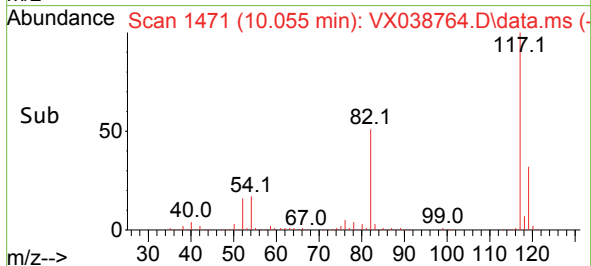
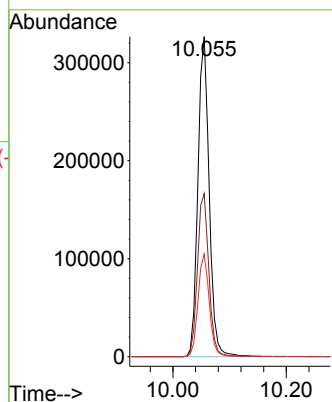
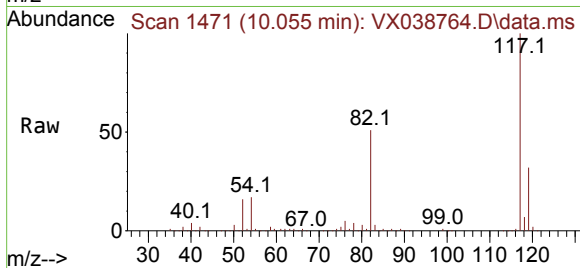




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

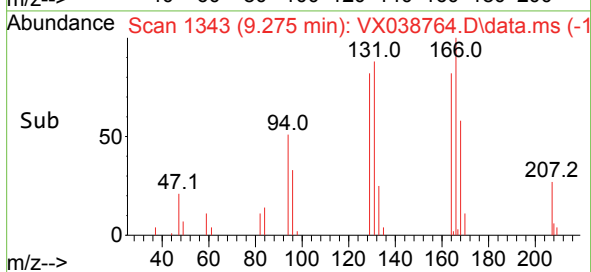
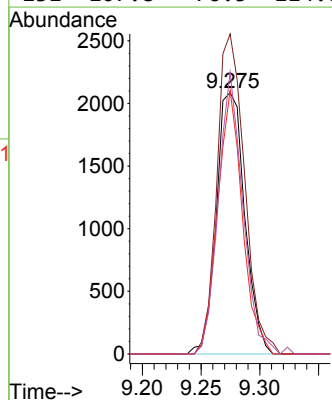
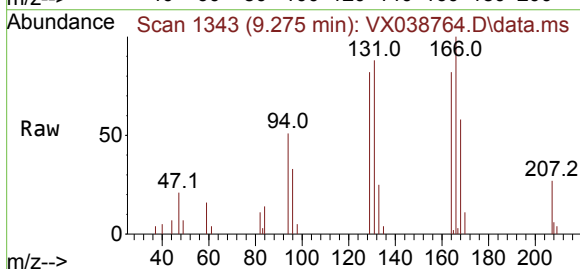
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT149S1-20231107

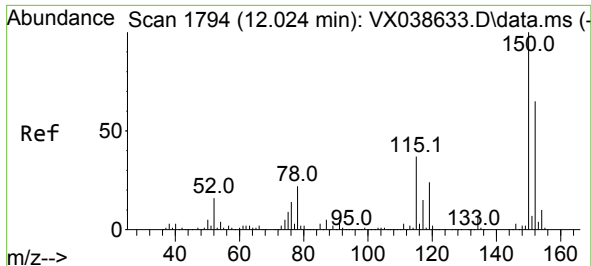
Tgt Ion:117 Resp: 450592  
Ion Ratio Lower Upper  
117 100  
82 51.0 46.2 69.4  
119 32.1 25.5 38.3



#64  
Tetrachloroethene  
Concen: 1.037 ug/l  
RT: 9.275 min Scan# 1343  
Delta R.T. 0.000 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

Tgt Ion:164 Resp: 3499  
Ion Ratio Lower Upper  
164 100  
166 122.4 102.7 154.1  
129 100.8 80.4 120.6  
131 107.8 76.5 114.7

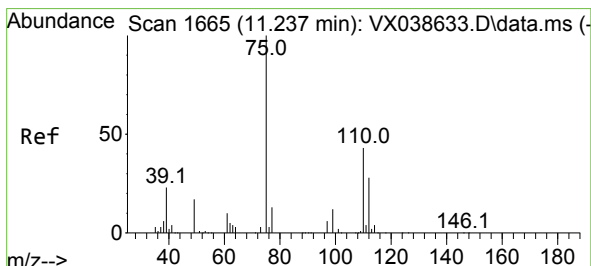
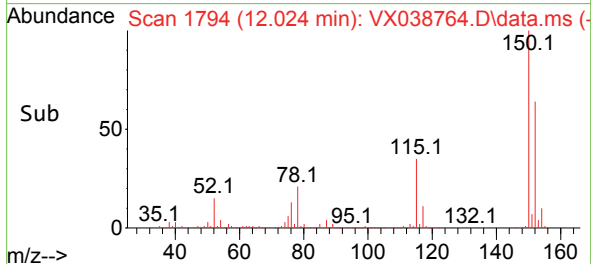
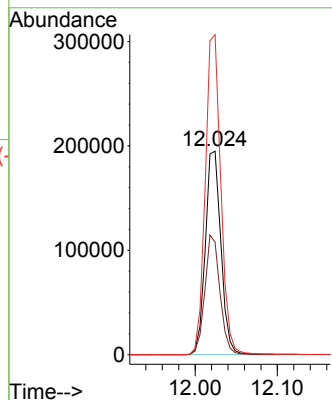
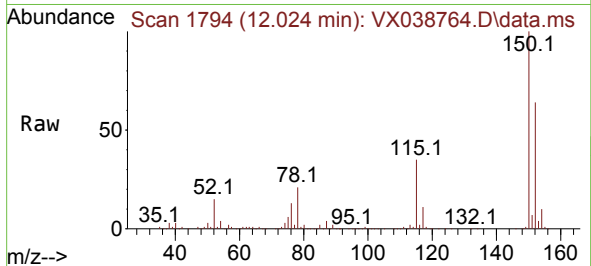




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.024 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

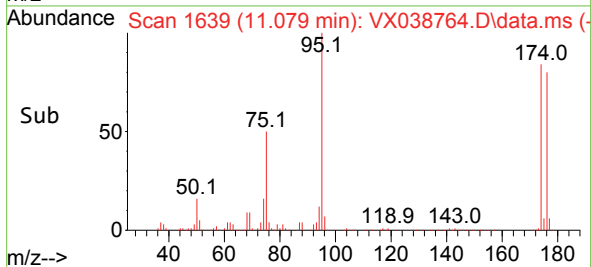
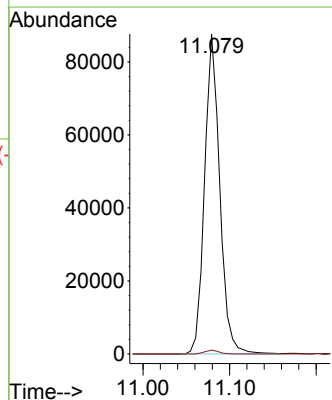
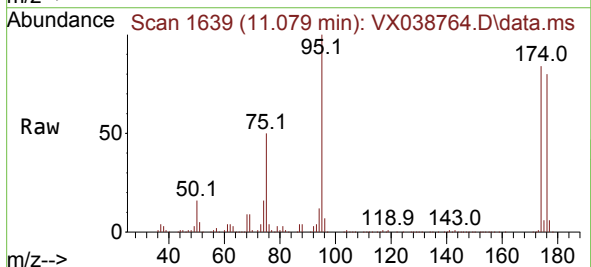
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT149S1-20231107

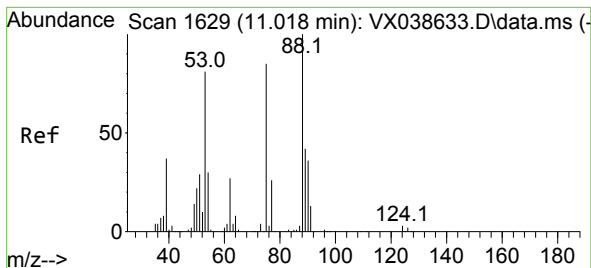
Tgt Ion:152 Resp: 257229  
Ion Ratio Lower Upper  
152 100  
115 56.9 43.3 129.9  
150 157.0 0.0 345.0



#76  
1,2,3-Trichloropropane  
Concen: 20.969 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

Tgt Ion: 75 Resp: 106824  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.1 57.5#

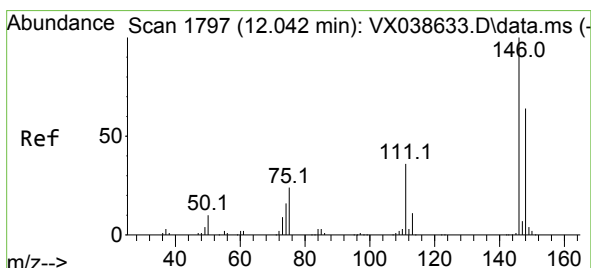
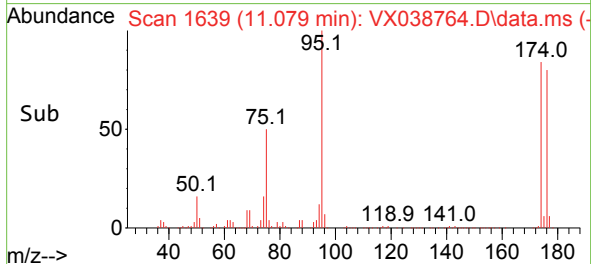
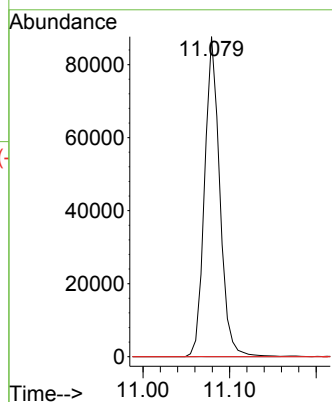
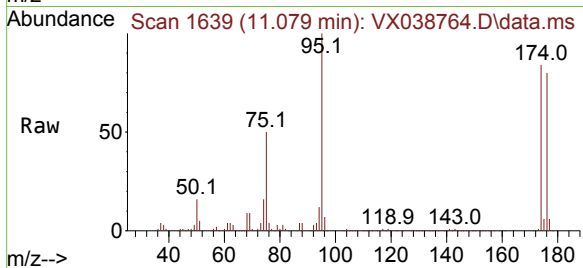




#81  
trans-1,4-Dichloro-2-butene  
Concen: 63.750 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

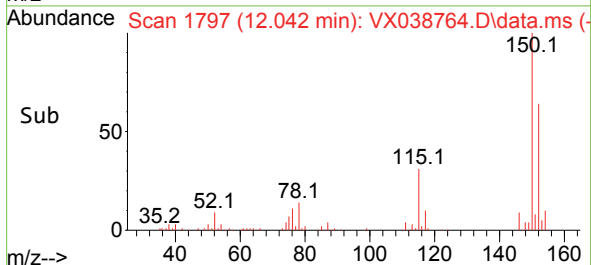
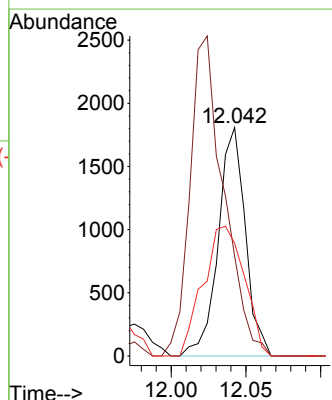
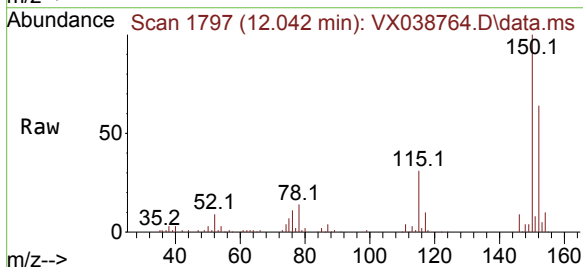
Instrument :  
MSVOA\_X  
ClientSampleId :  
TT149S1-20231107

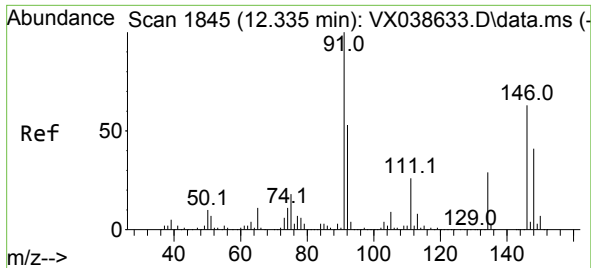
Tgt Ion: 75 Resp: 106824  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#



#88  
1,4-Dichlorobenzene  
Concen: 0.268 ug/l  
RT: 12.042 min Scan# 1797  
Delta R.T. 0.000 min  
Lab File: VX038764.D  
Acq: 11 Nov 2023 07:04

Tgt Ion: 146 Resp: 2281  
Ion Ratio Lower Upper  
146 100  
111 174.0 21.3 63.7#  
148 86.3 31.8 95.4





#91  
 1,2-Dichlorobenzene  
 Concen: 0.257 ug/l  
 RT: 12.335 min Scan# 11  
 Delta R.T. 0.000 min  
 Lab File: VX038764.D  
 Acq: 11 Nov 2023 07:04

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 TT149S1-20231107

Tgt Ion:146 Resp: 2080  
 Ion Ratio Lower Upper  
 146 100  
 111 35.6 22.4 67.0  
 148 66.1 31.6 95.0

