

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111623\  
 Data File : VX038860.D  
 Acq On : 16 Nov 2023 23:59  
 Operator : JC/MD  
 Sample : 05403-03  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 34 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DUP05-20231107

Quant Time: Nov 17 03:22:59 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

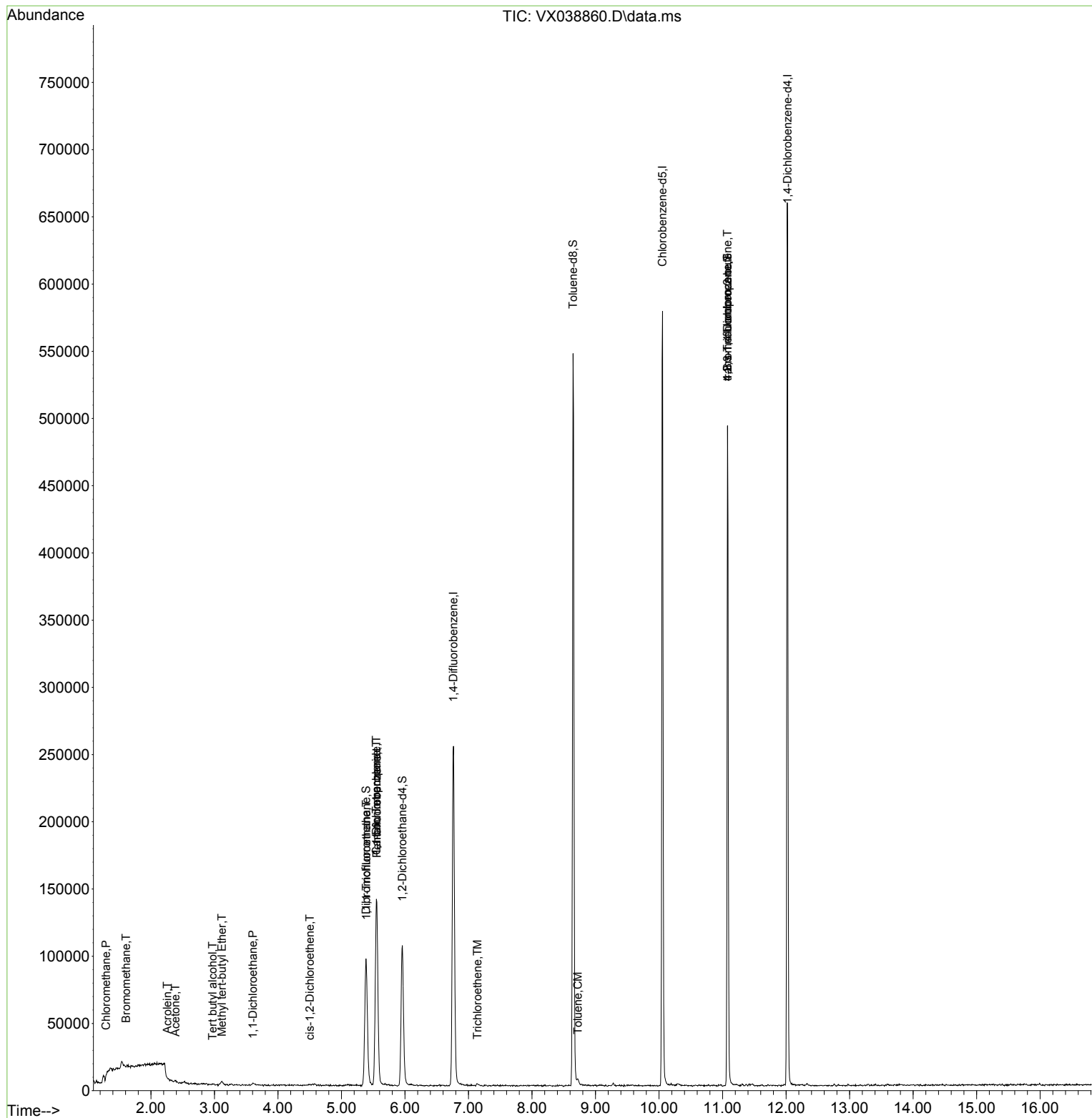
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.556  | 168   | 126328   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 262148   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 264296   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 131188   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958  | 65    | 96457    | 47.385   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 94.780%  |
| 35) Dibromofluoromethane      | 5.385  | 113   | 83736    | 44.228   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 88.460%  |
| 50) Toluene-d8                | 8.647  | 98    | 331463   | 45.758   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 91.520%# |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 140509   | 48.455   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 96.920%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.295  | 50    | 473      | 0.246    | ug/l   | 95       |
| 5) Bromomethane               | 1.605  | 94    | 306      | 0.399    | ug/l # | 23       |
| 11) Tert butyl alcohol        | 2.971  | 59    | 377      | 0.666    | ug/l # | 7        |
| 13) Acrolein                  | 2.258  | 56    | 94       | 0.314    | ug/l # | 14       |
| 16) Acetone                   | 2.386  | 43    | 1806     | 1.667    | ug/l   | 90       |
| 19) Methyl tert-butyl Ether   | 3.117  | 73    | 2911     | 0.526    | ug/l   | 92       |
| 24) 1,1-Dichloroethane        | 3.605  | 63    | 1900     | 0.588    | ug/l # | 78       |
| 27) cis-1,2-Dichloroethene    | 4.501  | 96    | 595      | 0.294    | ug/l   | 48       |
| 32) 1,1,1-Trichloroethane     | 5.391  | 97    | 721      | 0.264    | ug/l # | 45       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 11431    | 4.213    | ug/l # | 54       |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 13732    | 5.475    | ug/l # | 15       |
| 44) Trichloroethene           | 7.141  | 130   | 462      | 0.236    | ug/l   | 87       |
| 52) Toluene                   | 8.720  | 92    | 1463     | 0.294    | ug/l   | 98       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 71452    | 21.830   | ug/l # | 40       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 71452    | 48.421   | ug/l # | 5        |
| -----                         |        |       |          |          |        |          |

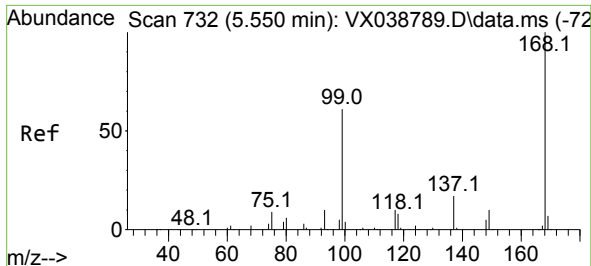
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX111623\  
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Quant Time: Nov 17 03:22:59 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

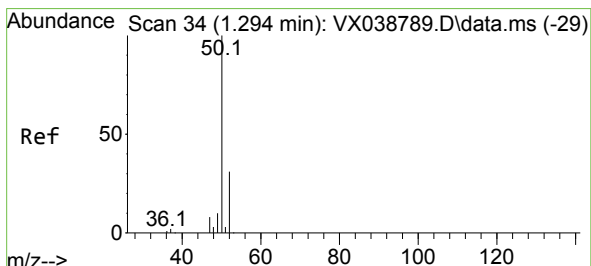
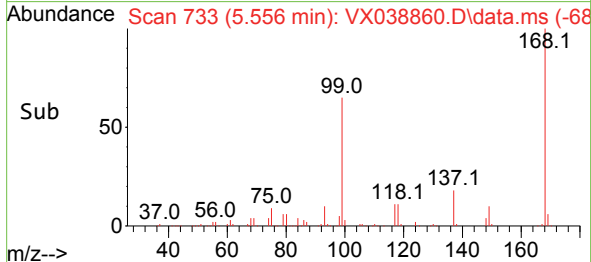
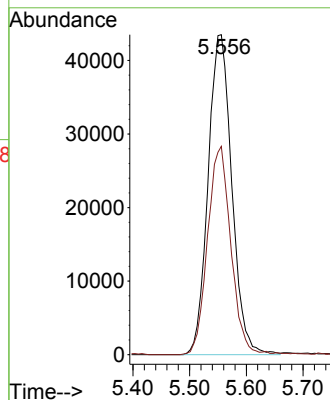
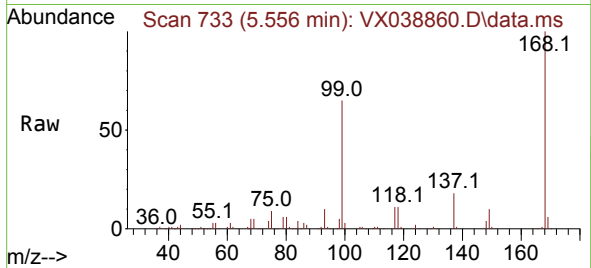




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.556 min Scan# 71  
Delta R.T. 0.006 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

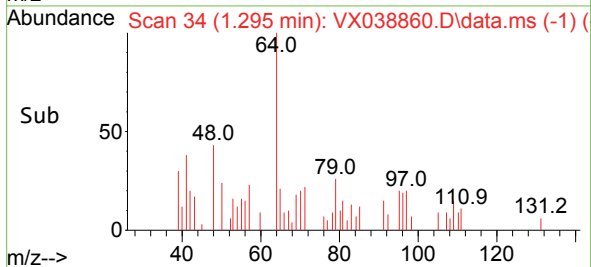
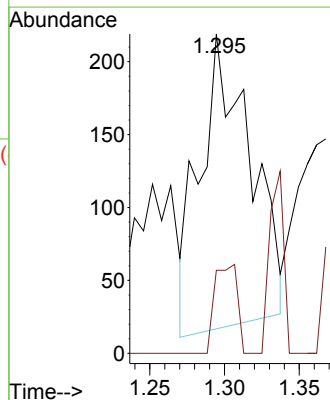
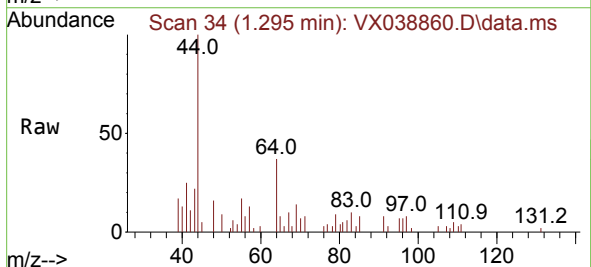
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20231107

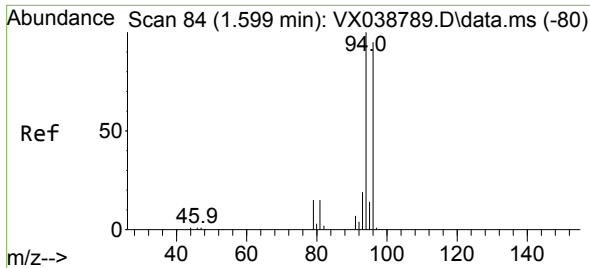
Tgt Ion:168 Resp: 126328  
Ion Ratio Lower Upper  
168 100  
99 65.1 56.6 85.0



#3  
Chloromethane  
Concen: 0.246 ug/l  
RT: 1.295 min Scan# 34  
Delta R.T. 0.001 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

Tgt Ion: 50 Resp: 473  
Ion Ratio Lower Upper  
50 100  
52 34.5 25.5 38.3

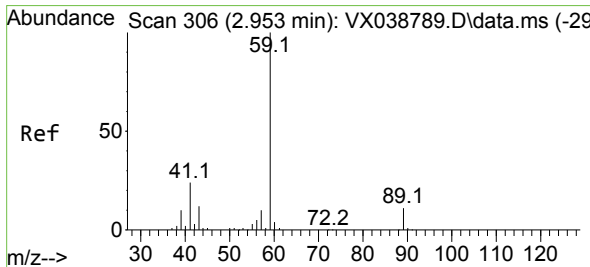
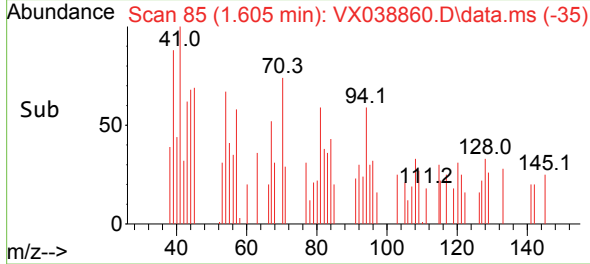
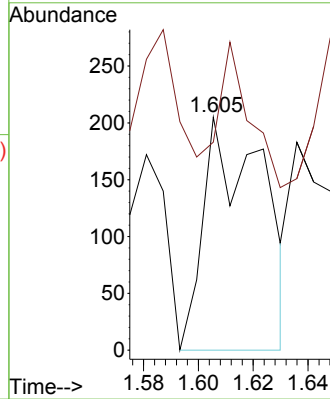
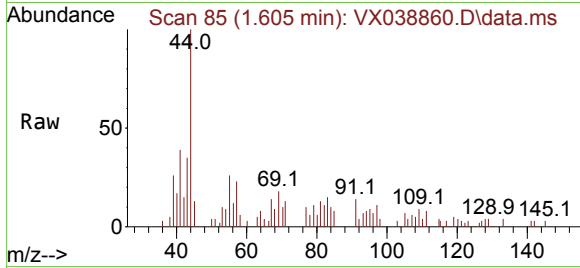




#5  
Bromomethane  
Concen: 0.399 ug/l  
RT: 1.605 min Scan# 81  
Delta R.T. 0.006 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

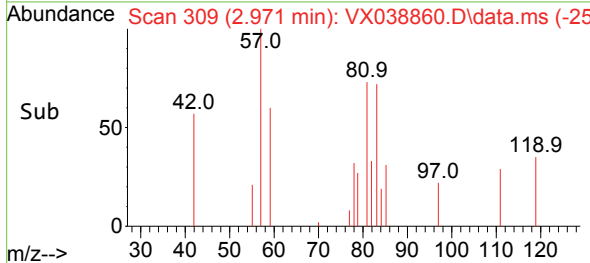
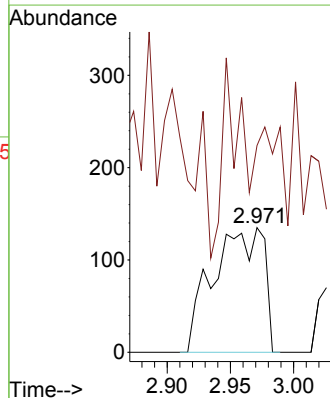
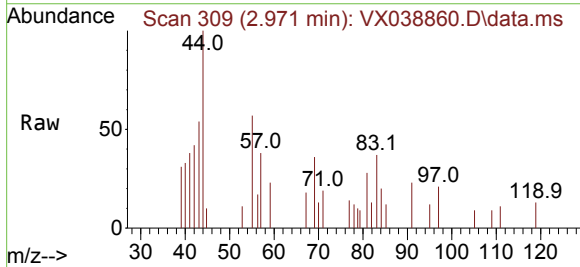
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20231107

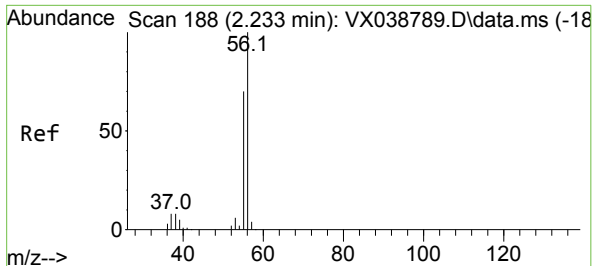
Tgt Ion: 94 Resp: 306  
Ion Ratio Lower Upper  
94 100  
96 19.5 74.6 111.8#



#11  
Tert butyl alcohol  
Concen: 0.666 ug/l  
RT: 2.971 min Scan# 309  
Delta R.T. 0.018 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

Tgt Ion: 59 Resp: 377  
Ion Ratio Lower Upper  
59 100  
57 39.8 6.0 9.0#

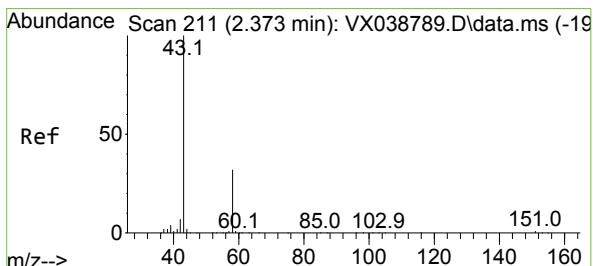
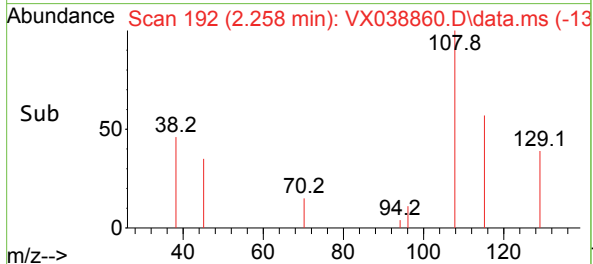
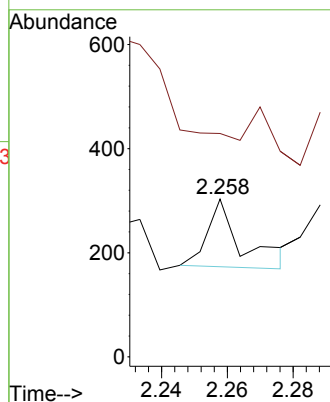
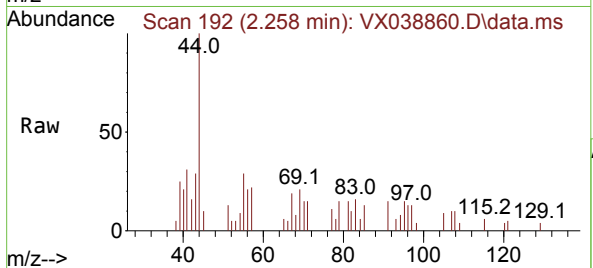




#13  
Acrolein  
Concen: 0.314 ug/l  
RT: 2.258 min Scan# 192  
Delta R.T. 0.025 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

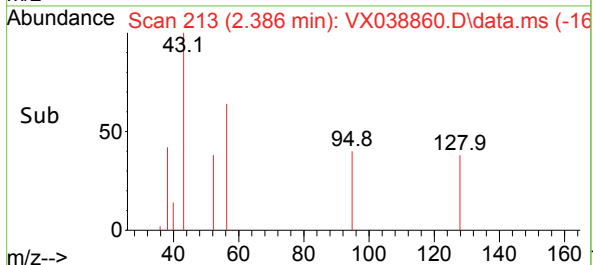
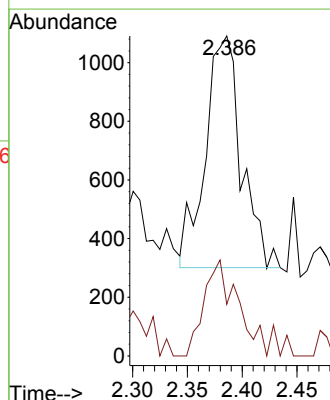
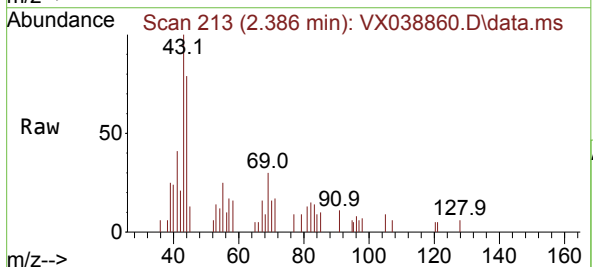
Instrument :  
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ClientSampleId :  
DUP05-20231107

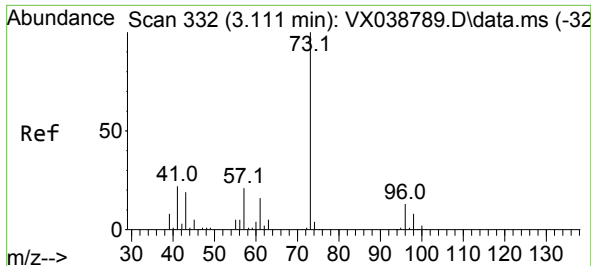
Tgt Ion: 56 Resp: 94  
Ion Ratio Lower Upper  
56 100  
55 0.0 57.1 85.7#



#16  
Acetone  
Concen: 1.667 ug/l  
RT: 2.386 min Scan# 213  
Delta R.T. 0.012 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

Tgt Ion: 43 Resp: 1806  
Ion Ratio Lower Upper  
43 100  
58 22.3 21.9 32.9

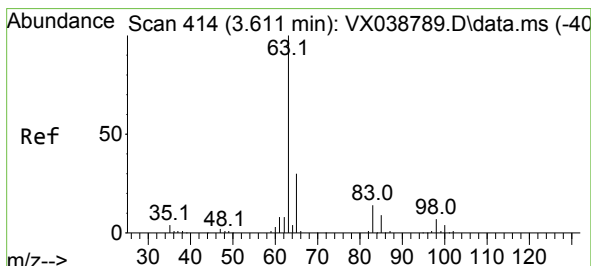
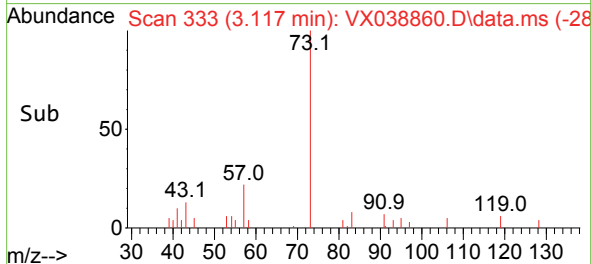
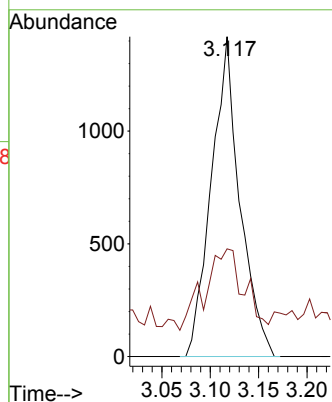
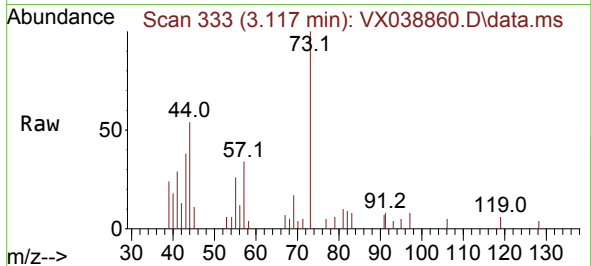




#19  
Methyl tert-butyl Ether  
Concen: 0.526 ug/l  
RT: 3.117 min Scan# 311  
Delta R.T. 0.006 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

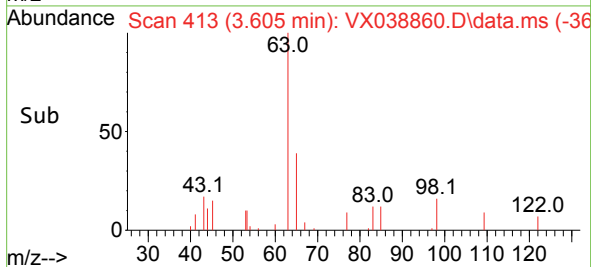
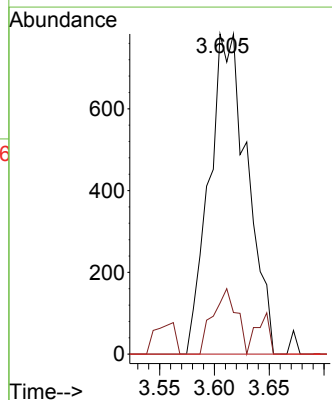
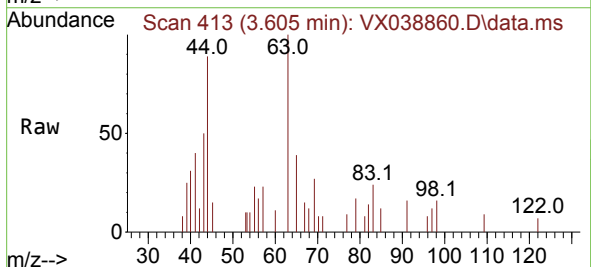
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20231107

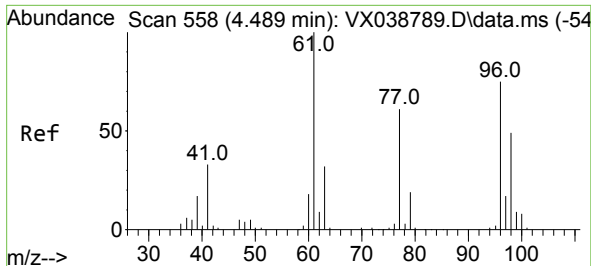
Tgt Ion: 73 Resp: 2911  
Ion Ratio Lower Upper  
73 100  
57 25.4 17.3 25.9



#24  
1,1-Dichloroethane  
Concen: 0.588 ug/l  
RT: 3.605 min Scan# 413  
Delta R.T. -0.006 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

Tgt Ion: 63 Resp: 1900  
Ion Ratio Lower Upper  
63 100  
98 16.0 3.3 9.8#  
100 0.0 2.1 6.5#





#27

cis-1,2-Dichloroethene

Concen: 0.294 ug/l

RT: 4.501 min Scan# 5

Delta R.T. 0.012 min

Lab File: VX038860.D

Acq: 16 Nov 2023 23:59

Instrument :

MSVOA\_X

ClientSampleId :

DUP05-20231107

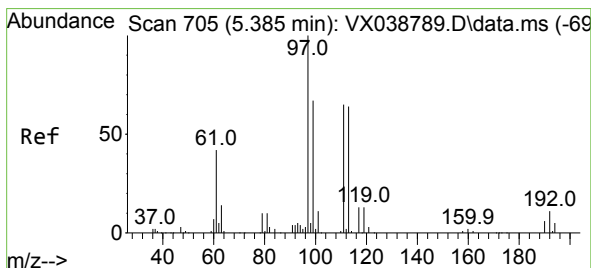
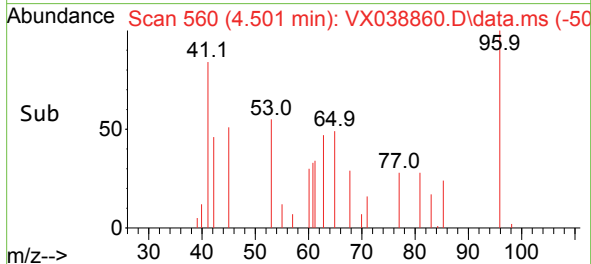
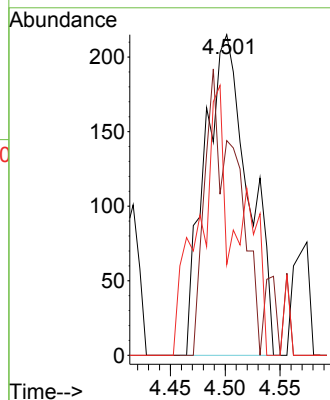
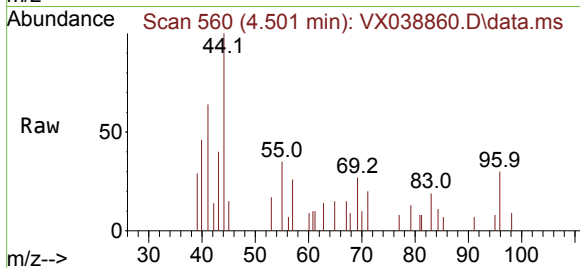
Tgt Ion: 96 Resp: 595

Ion Ratio Lower Upper

96 100

61 64.9 0.0 312.2

98 58.2 0.0 129.0



#32

1,1,1-Trichloroethane

Concen: 0.264 ug/l

RT: 5.391 min Scan# 706

Delta R.T. 0.006 min

Lab File: VX038860.D

Acq: 16 Nov 2023 23:59

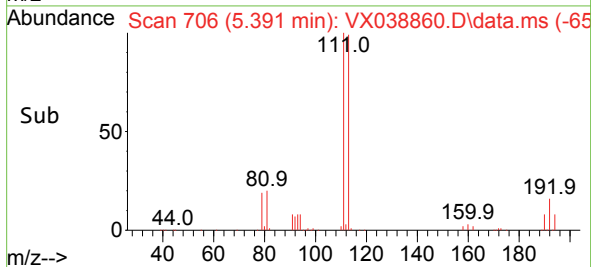
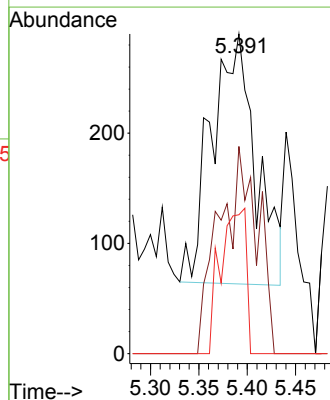
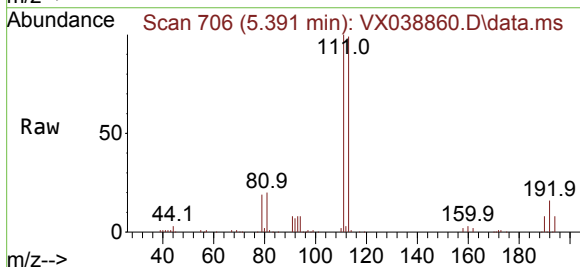
Tgt Ion: 97 Resp: 721

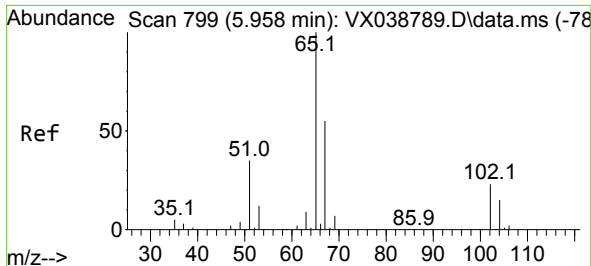
Ion Ratio Lower Upper

97 100

99 0.0 51.1 76.7#

61 33.4 36.4 54.6#





#33

1,2-Dichloroethane-d4

Concen: 47.385 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX038860.D

Acq: 16 Nov 2023 23:59

Instrument :

MSVOA\_X

ClientSampleId :

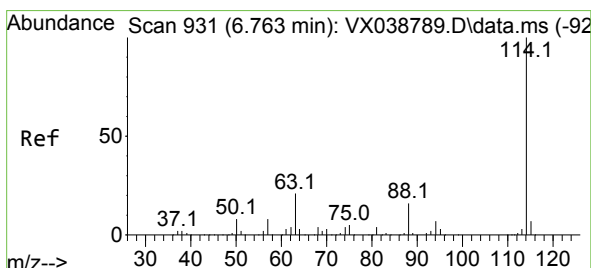
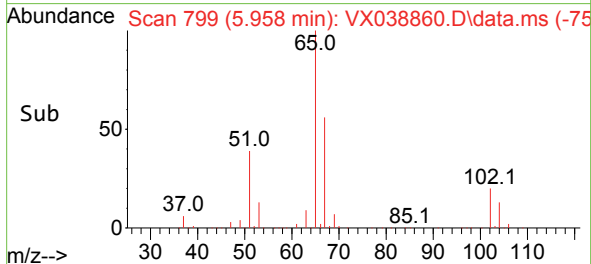
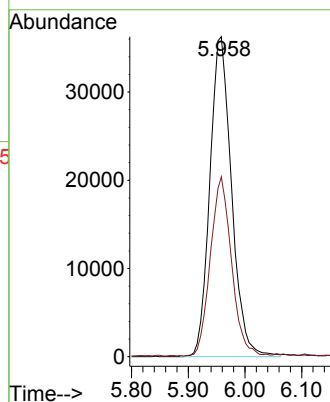
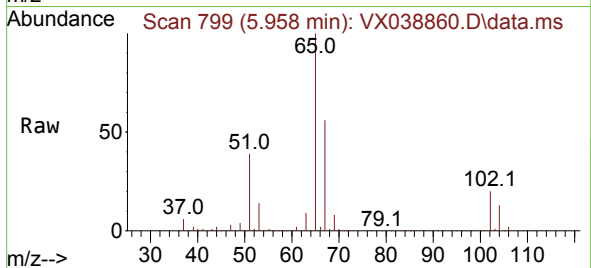
DUP05-20231107

Tgt Ion: 65 Resp: 96457

Ion Ratio Lower Upper

65 100

67 54.4 0.0 100.2



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. 0.000 min

Lab File: VX038860.D

Acq: 16 Nov 2023 23:59

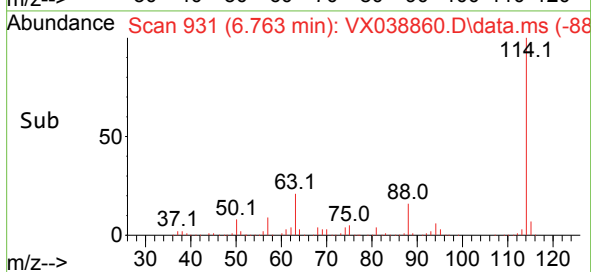
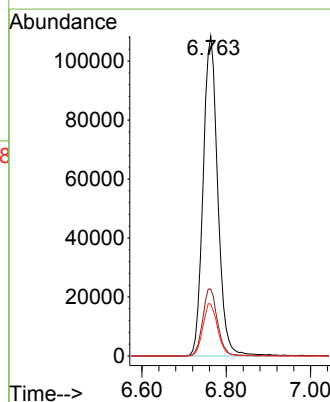
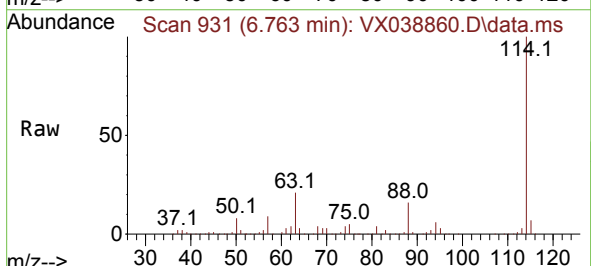
Tgt Ion:114 Resp: 262148

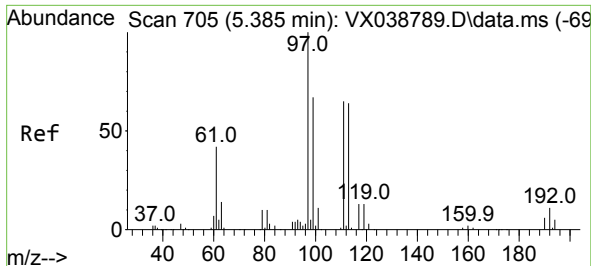
Ion Ratio Lower Upper

114 100

63 20.9 0.0 45.0

88 16.2 0.0 36.6

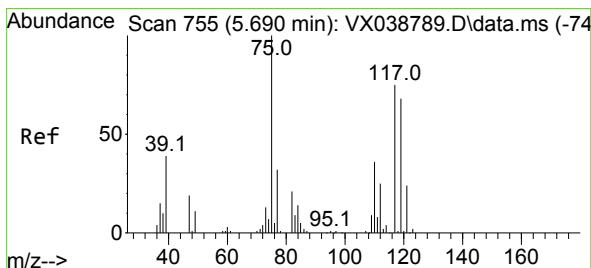
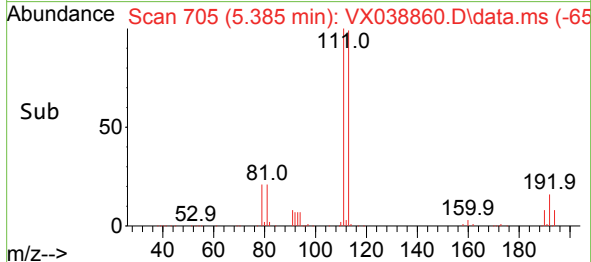
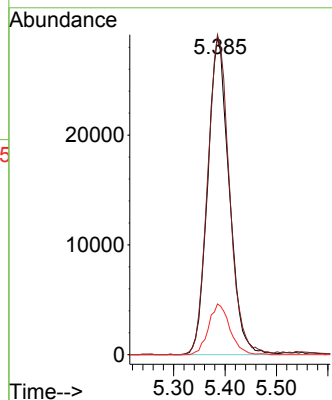
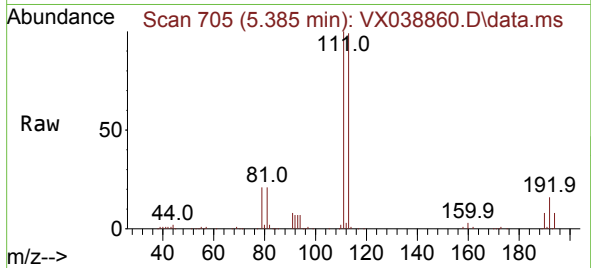




#35  
Dibromofluoromethane  
Concen: 44.228 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

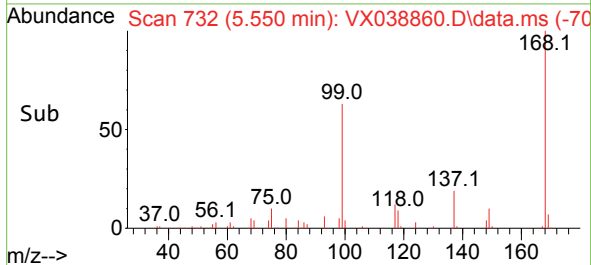
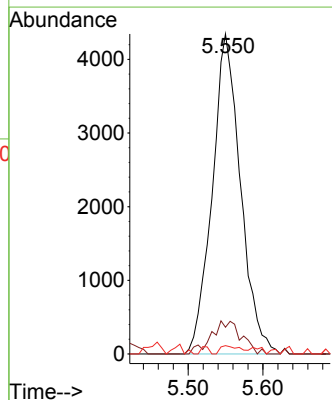
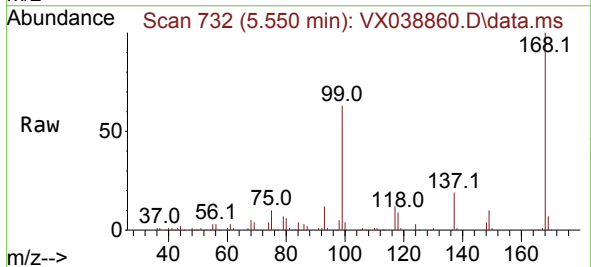
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20231107

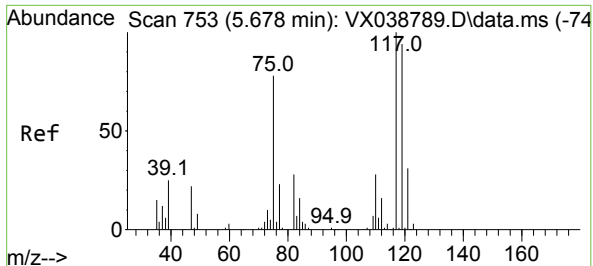
Tgt Ion:113 Resp: 83736  
Ion Ratio Lower Upper  
113 100  
111 102.6 82.9 124.3  
192 16.0 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.213 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

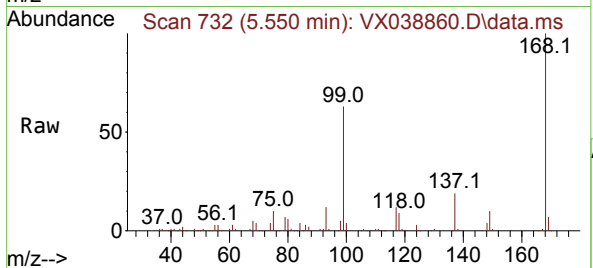
Tgt Ion: 75 Resp: 11431  
Ion Ratio Lower Upper  
75 100  
110 11.0 17.0 50.9#  
77 1.9 24.7 37.1#



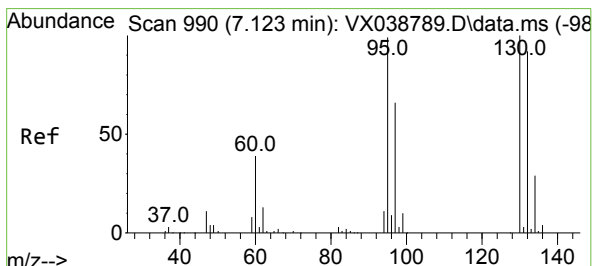
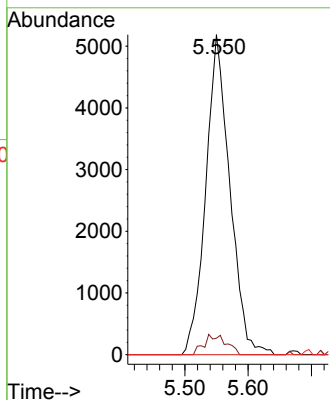
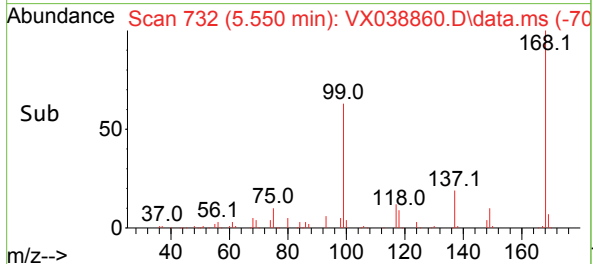


#38  
Carbon Tetrachloride  
Concen: 5.475 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.128 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20231107

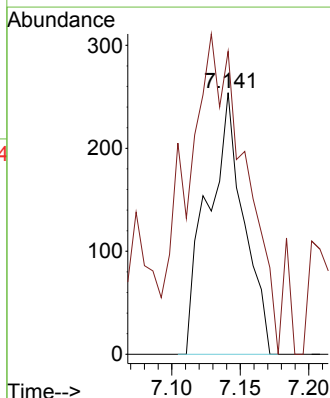
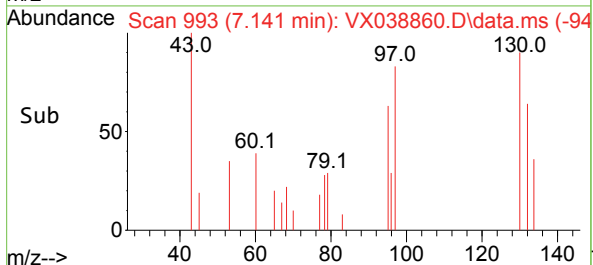
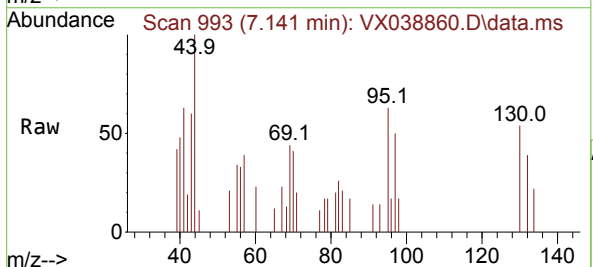


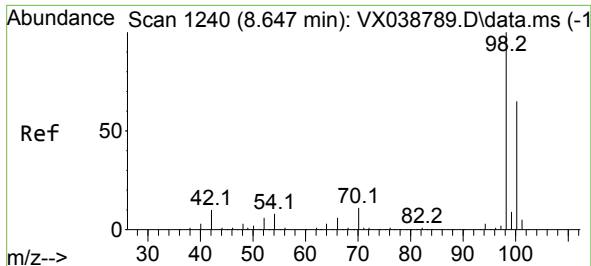
Tgt Ion:117 Resp: 13732  
Ion Ratio Lower Upper  
117 100  
119 5.1 78.2 117.2#  
121 0.0 24.4 36.6#



#44  
Trichloroethene  
Concen: 0.236 ug/l  
RT: 7.141 min Scan# 993  
Delta R.T. 0.018 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

Tgt Ion:130 Resp: 462  
Ion Ratio Lower Upper  
130 100  
95 115.7 0.0 204.4

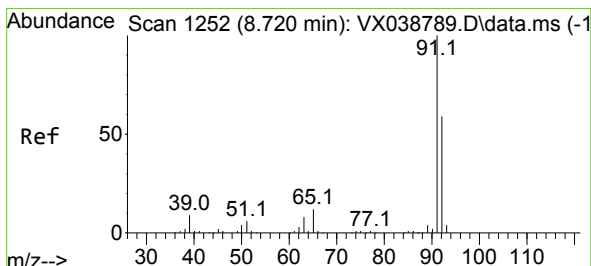
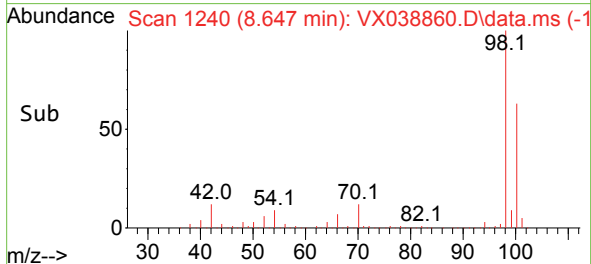
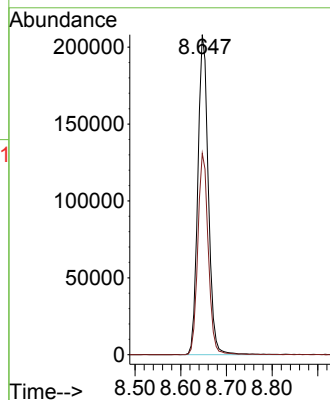
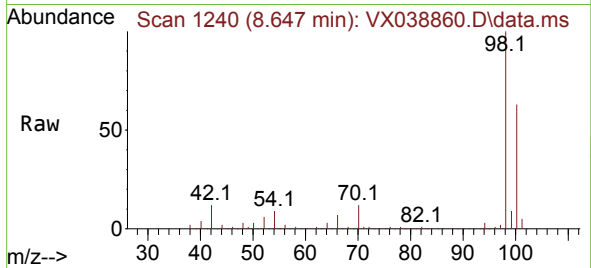




#50  
Toluene-d8  
Concen: 45.758 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

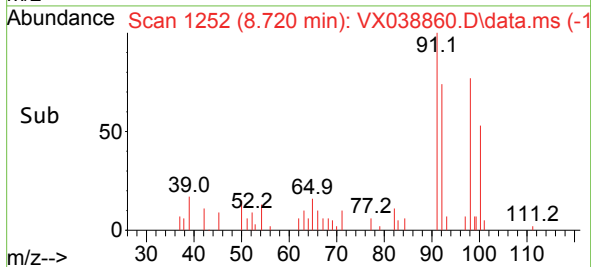
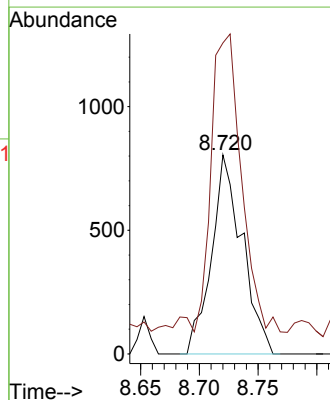
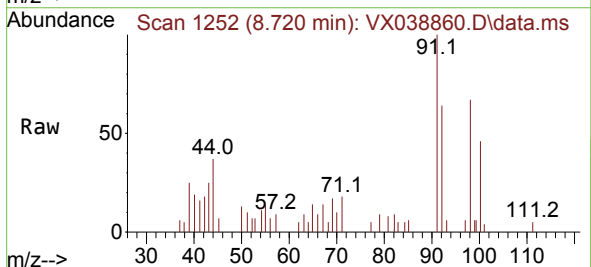
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20231107

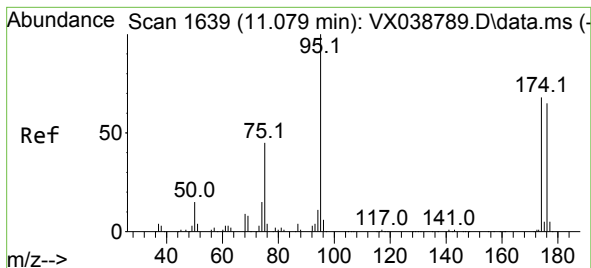
Tgt Ion: 98 Resp: 331463  
Ion Ratio Lower Upper  
98 100  
100 62.7 53.1 79.7



#52  
Toluene  
Concen: 0.294 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. 0.000 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

Tgt Ion: 92 Resp: 1463  
Ion Ratio Lower Upper  
92 100  
91 164.9 134.2 201.2

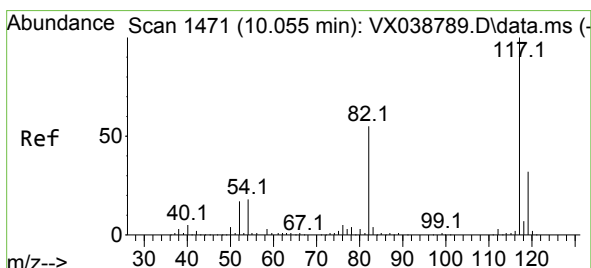
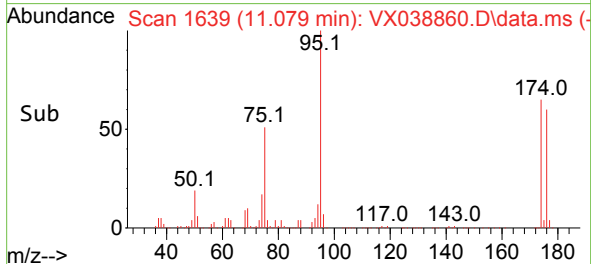
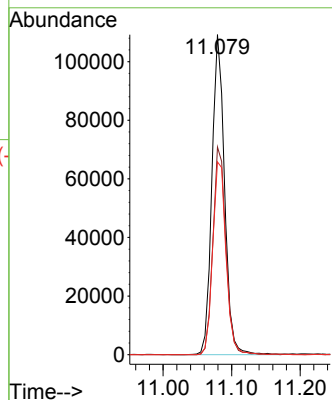
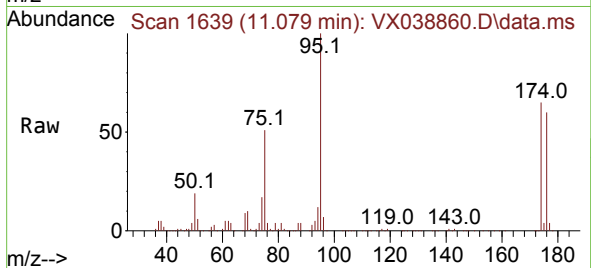




#62  
4-Bromofluorobenzene  
Concen: 48.455 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

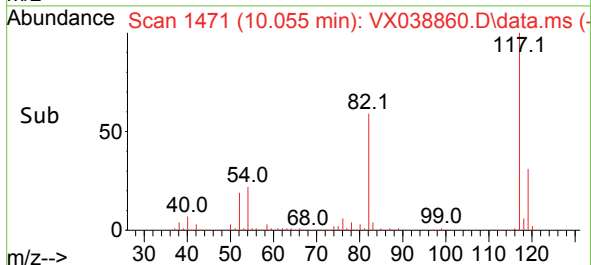
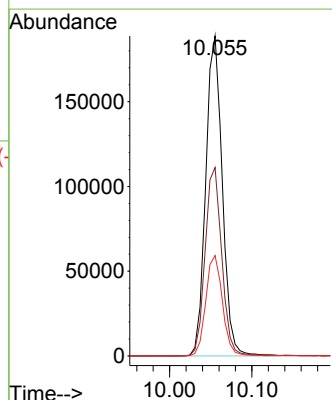
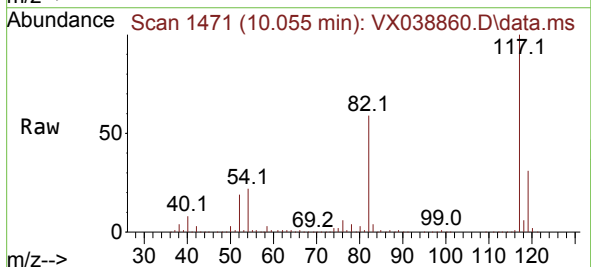
Instrument :  
MSVOA\_X  
ClientSampleId :  
DUP05-20231107

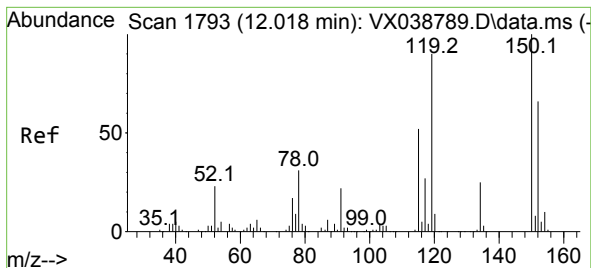
Tgt Ion: 95 Resp: 140509  
Ion Ratio Lower Upper  
95 100  
174 66.6 0.0 135.6  
176 63.6 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX038860.D  
Acq: 16 Nov 2023 23:59

Tgt Ion: 117 Resp: 264296  
Ion Ratio Lower Upper  
117 100  
82 58.9 46.2 69.4  
119 31.4 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.006 min

Lab File: VX038860.D

Acq: 16 Nov 2023 23:59

Instrument :

MSVOA\_X

ClientSampleId :

DUP05-20231107

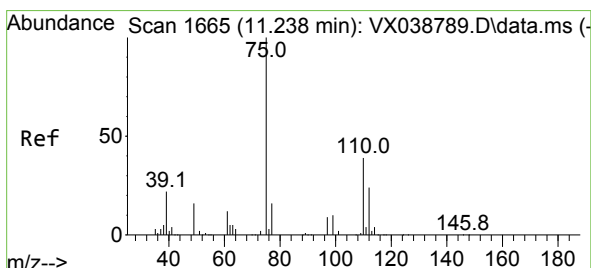
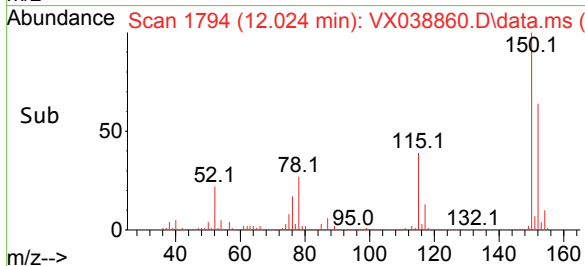
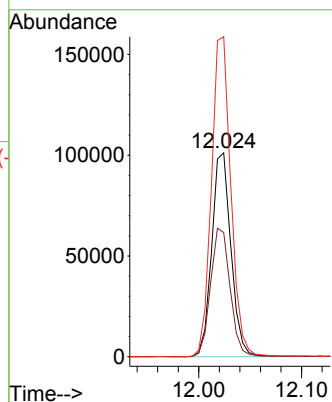
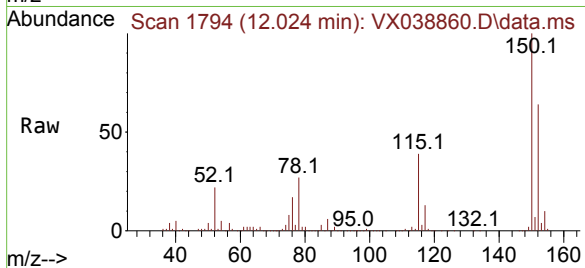
Tgt Ion:152 Resp: 131188

Ion Ratio Lower Upper

152 100

115 64.2 43.3 129.9

150 159.0 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 21.830 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.158 min

Lab File: VX038860.D

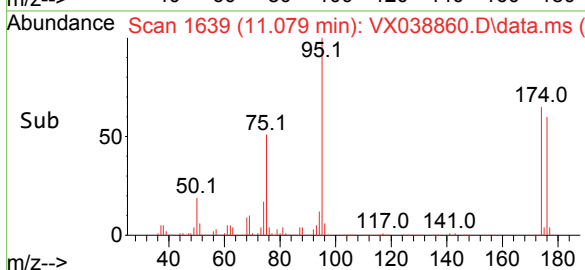
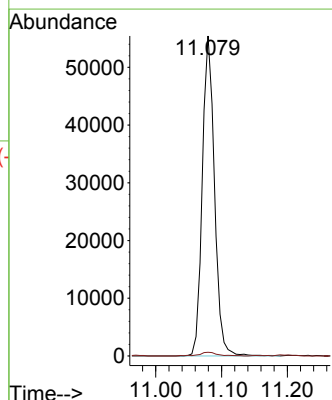
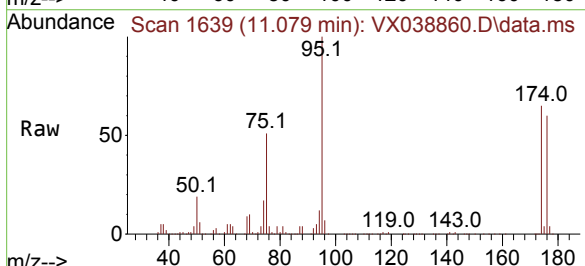
Acq: 16 Nov 2023 23:59

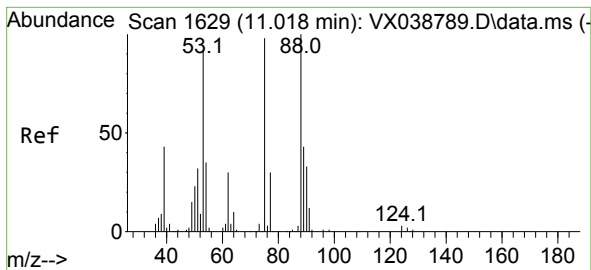
Tgt Ion: 75 Resp: 71452

Ion Ratio Lower Upper

75 100

77 1.7 19.1 57.5#





#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 48.421 ug/l  
 RT: 11.079 min Scan# 1  
 Delta R.T. 0.061 min  
 Lab File: VX038860.D  
 Acq: 16 Nov 2023 23:59

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 DUP05-20231107

Tgt Ion: 75 Resp: 71452  
 Ion Ratio Lower Upper  
 75 100  
 53 0.2 90.5 135.7#  
 89 0.0 36.9 55.3#

