

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051923\  
 Data File : VX035763.D  
 Acq On : 19 May 2023 16:18  
 Operator : JC/MD  
 Sample : 02860-07  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 22 05:18:10 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051123W.M  
 Quant Title : SW846 8260  
 QLast Update : Thu May 11 13:57:54 2023  
 Response via : Initial Calibration

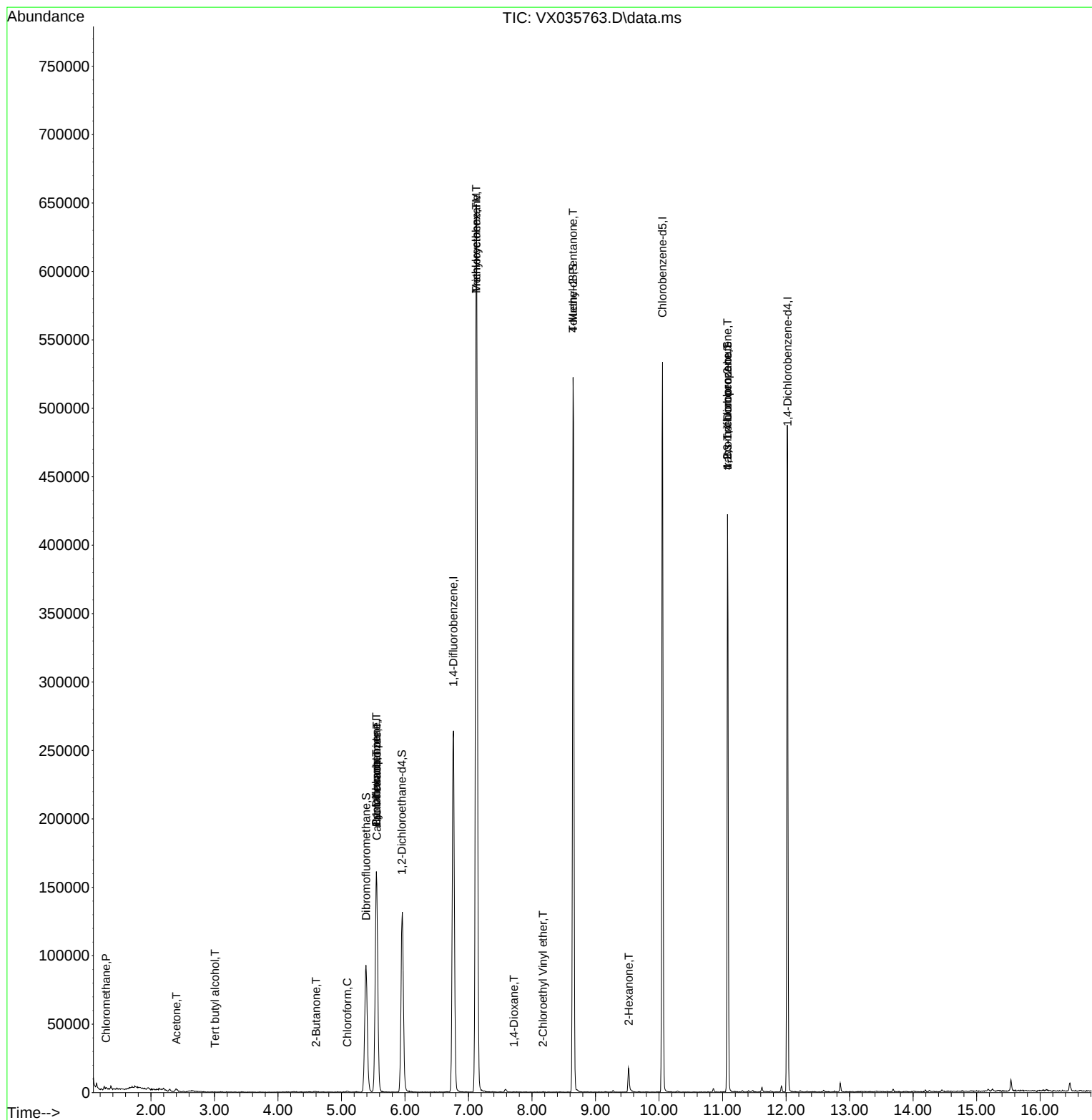
| Compound                      | R.T.   | QIon           | Response | Conc    | Units    | Dev(Min) |
|-------------------------------|--------|----------------|----------|---------|----------|----------|
| -----                         |        |                |          |         |          |          |
| Internal Standards            |        |                |          |         |          |          |
| 1) Pentafluorobenzene         | 5.550  | 168            | 134824   | 50.000  | ug/l     | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763  | 114            | 252153   | 50.000  | ug/l     | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117            | 216616   | 50.000  | ug/l     | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152            | 89926    | 50.000  | ug/l     | 0.00     |
| System Monitoring Compounds   |        |                |          |         |          |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65             | 130833   | 55.625  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 78 - 117 | Recovery | =       | 111.240% |          |
| 35) Dibromofluoromethane      | 5.385  | 113            | 80282    | 47.210  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 75 - 124 | Recovery | =       | 94.420%  |          |
| 50) Toluene-d8                | 8.647  | 98             | 295392   | 47.021  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 92 - 112 | Recovery | =       | 94.040%  |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95             | 109963   | 43.473  | ug/l     | 0.00     |
| Spiked Amount                 | 50.000 | Range 83 - 123 | Recovery | =       | 86.940%  |          |
| Target Compounds              |        |                |          |         |          |          |
|                               |        |                |          |         | Qvalue   |          |
| 3) Chloromethane              | 1.295  | 50             | 974      | 0.457   | ug/l     | 100      |
| 11) Tert butyl alcohol        | 3.008  | 59             | 95       | 0.229   | ug/l #   | 73       |
| 16) Acetone                   | 2.398  | 43             | 3213     | 3.178   | ug/l     | 99       |
| 25) 2-Butanone                | 4.599  | 43             | 442      | 0.316   | ug/l #   | 51       |
| 30) Chloroform                | 5.093  | 83             | 857      | 0.248   | ug/l #   | 55       |
| 31) Cyclohexane               | 5.550  | 56             | 3944     | 1.327   | ug/l #   | 30       |
| 36) 1,1-Dichloropropene       | 5.550  | 75             | 12892    | 4.803   | ug/l #   | 47       |
| 38) Carbon Tetrachloride      | 5.556  | 117            | 16158    | 6.355   | ug/l #   | 15       |
| 39) Methylcyclohexane         | 7.123  | 83             | 3326     | 1.053   | ug/l #   | 1        |
| 44) Trichloroethene           | 7.123  | 130            | 236282   | 124.097 | ug/l     | 95       |
| 49) 1,4-Dioxane               | 7.714  | 88             | 54       | 3.011   | ug/l #   | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43             | 1749     | 0.622   | ug/l #   | 1        |
| 58) 2-Chloroethyl Vinyl ether | 8.171  | 63             | 311      | 0.203   | ug/l #   | 47       |
| 59) 2-Hexanone                | 9.525  | 43             | 3005     | 1.419   | ug/l #   | 52       |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75             | 61243    | 27.843  | ug/l #   | 35       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75             | 61243    | 89.733  | ug/l #   | 8        |
| -----                         |        |                |          |         |          |          |

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

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Operator : JC/MD  
Sample : 02860-07  
Misc : 5.0mL/MSVOA\_X/WATER  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

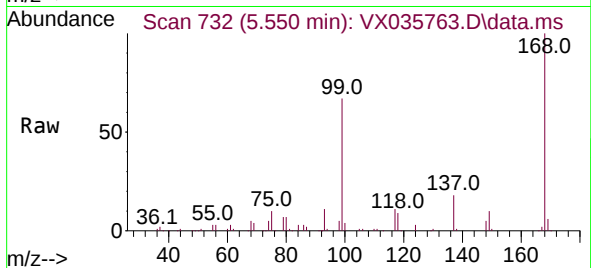
Quant Time: May 22 05:18:10 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X051123W.M  
Quant Title : SW846 8260  
QLast Update : Thu May 11 13:57:54 2023  
Response via : Initial Calibration



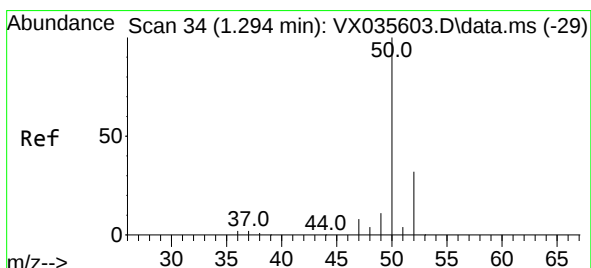
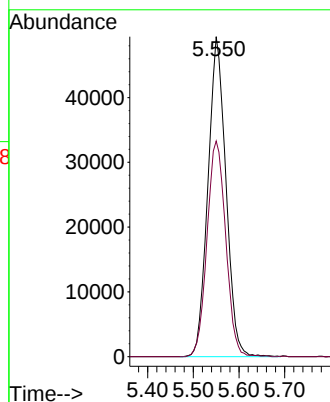
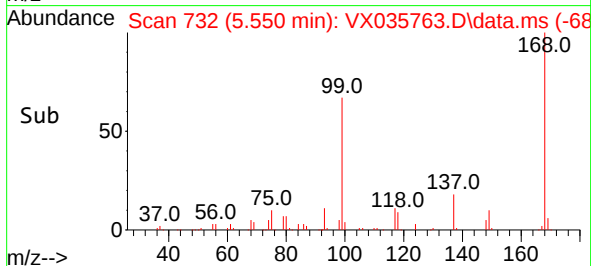


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.000 min  
Lab File: VX035763.D  
Acq: 19 May 2023 16:18

Instrument :  
MSVOA\_X  
ClientSampleId :

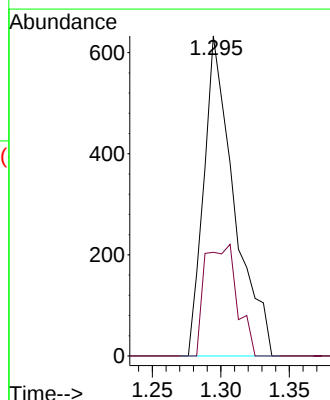
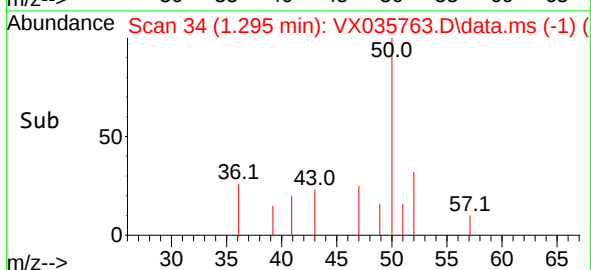
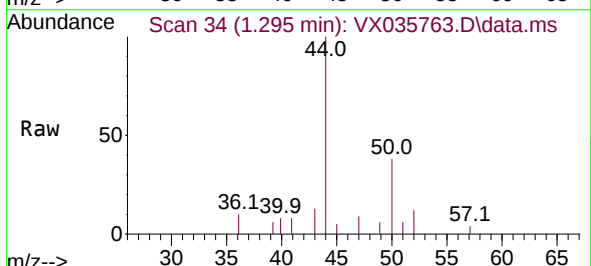


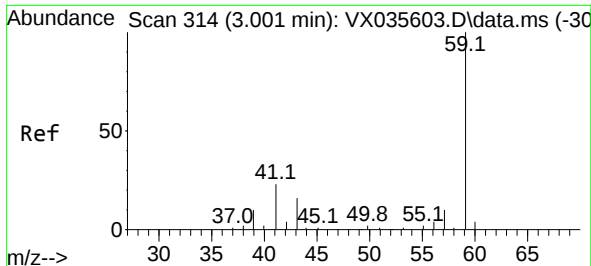
Tgt Ion:168 Resp: 134824  
Ion Ratio Lower Upper  
168 100  
99 67.4 45.7 68.5



#3  
Chloromethane  
Concen: 0.457 ug/l  
RT: 1.295 min Scan# 34  
Delta R.T. 0.000 min  
Lab File: VX035763.D  
Acq: 19 May 2023 16:18

Tgt Ion: 50 Resp: 974  
Ion Ratio Lower Upper  
50 100  
52 32.4 25.9 38.9





#11

Tert butyl alcohol

Concen: 0.229 ug/l

RT: 3.008 min Scan# 314

Delta R.T. 0.007 min

Lab File: VX035763.D

Acq: 19 May 2023 16:18

Instrument :

MSVOA\_X

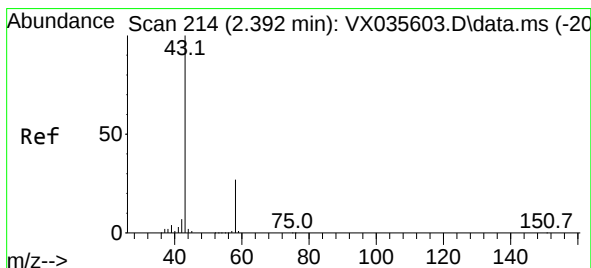
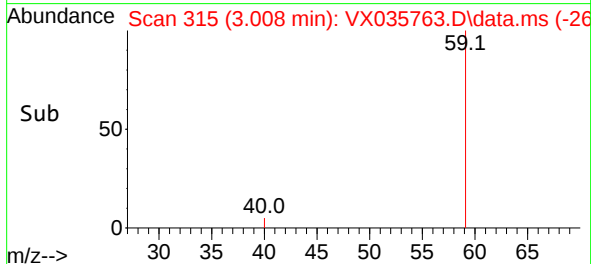
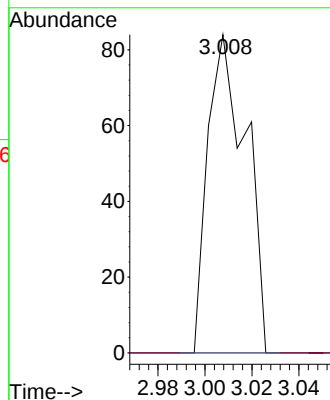
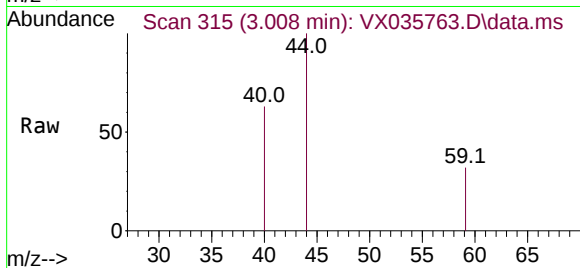
ClientSampleId :

Tgt Ion: 59 Resp: 95

Ion Ratio Lower Upper

59 100

57 0.0 8.1 12.1#



#16

Acetone

Concen: 3.178 ug/l

RT: 2.398 min Scan# 215

Delta R.T. 0.006 min

Lab File: VX035763.D

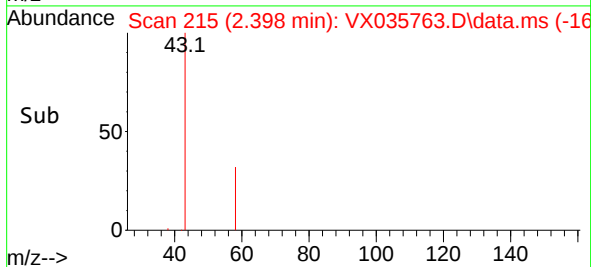
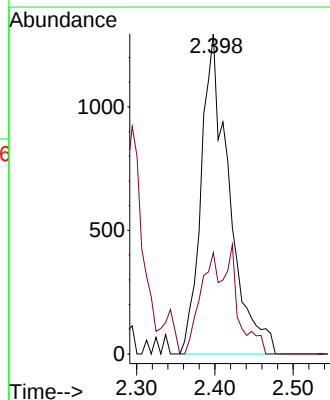
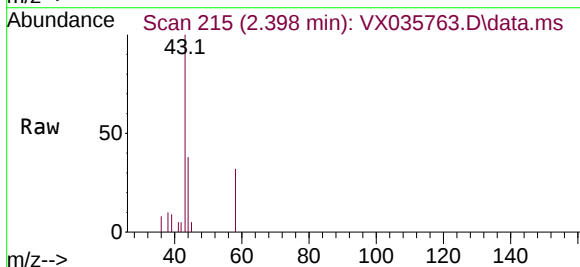
Acq: 19 May 2023 16:18

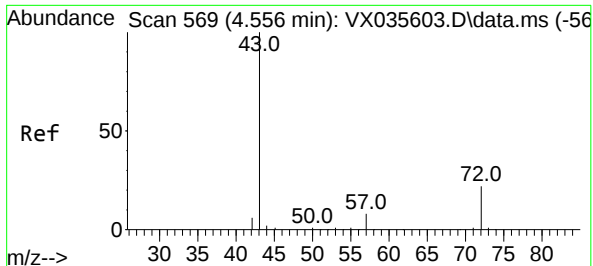
Tgt Ion: 43 Resp: 3213

Ion Ratio Lower Upper

43 100

58 31.7 24.7 37.1





#25

2-Butanone

Concen: 0.316 ug/l

RT: 4.599 min Scan# 51

Delta R.T. 0.043 min

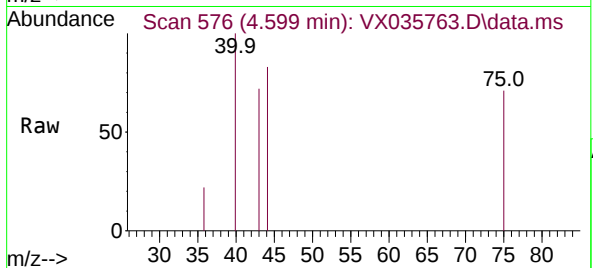
Lab File: VX035763.D

Acq: 19 May 2023 16:18

Instrument :

MSVOA\_X

ClientSampleId :

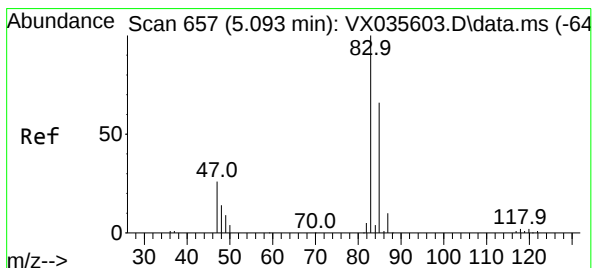
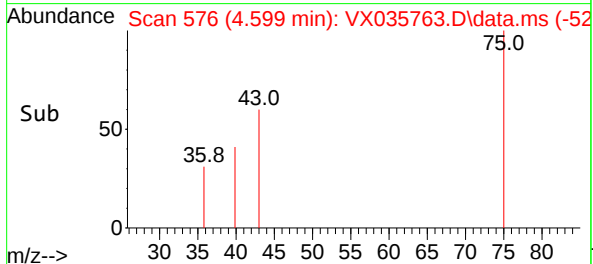
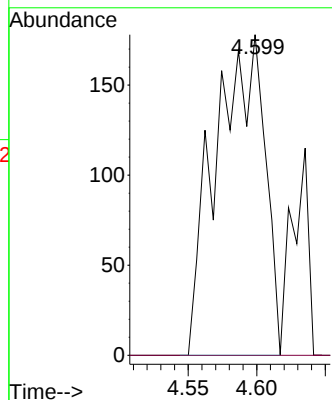


Tgt Ion: 43 Resp: 442

Ion Ratio Lower Upper

43 100

72 0.0 19.3 28.9#



#30

Chloroform

Concen: 0.248 ug/l

RT: 5.093 min Scan# 657

Delta R.T. -0.000 min

Lab File: VX035763.D

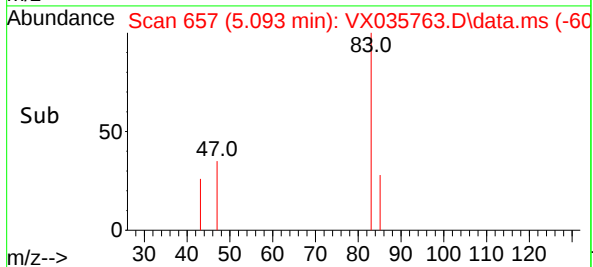
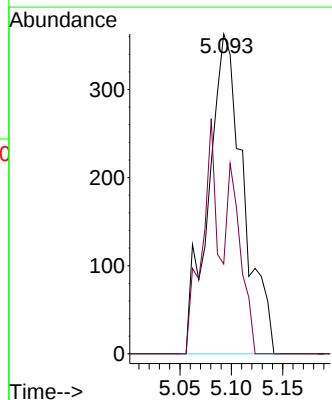
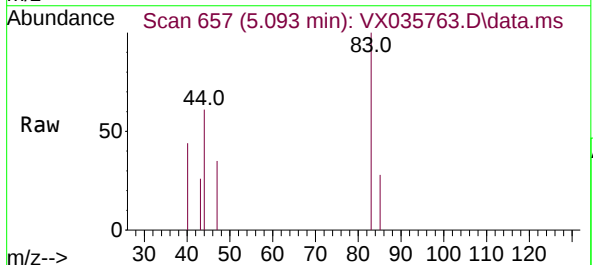
Acq: 19 May 2023 16:18

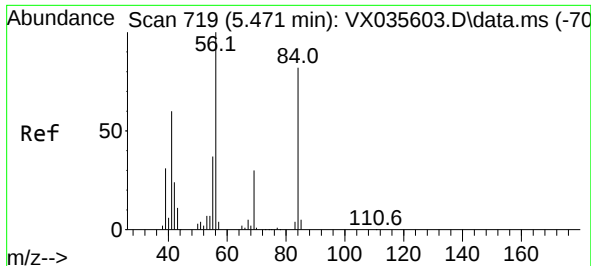
Tgt Ion: 83 Resp: 857

Ion Ratio Lower Upper

83 100

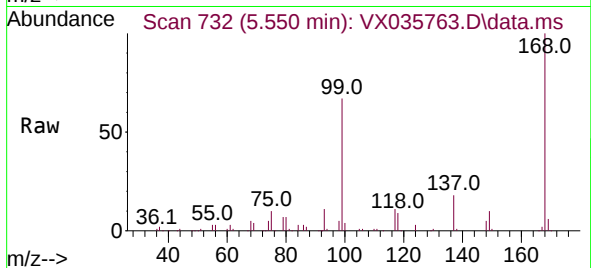
85 28.1 50.6 76.0#



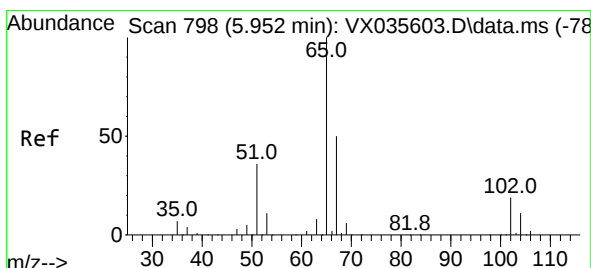
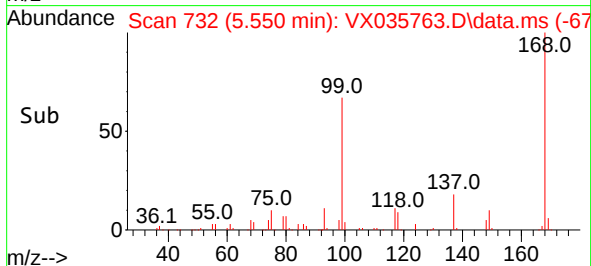
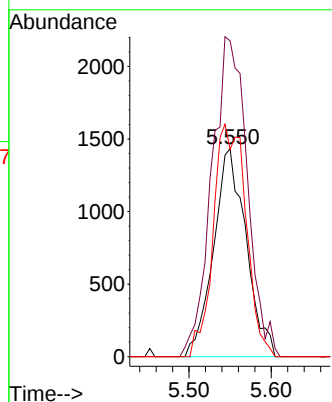


#31  
Cyclohexane  
Concen: 1.327 ug/l  
RT: 5.550 min Scan# 719  
Delta R.T. 0.079 min  
Lab File: VX035763.D  
Acq: 19 May 2023 16:18

Instrument :  
MSVOA\_X  
ClientSampleId :

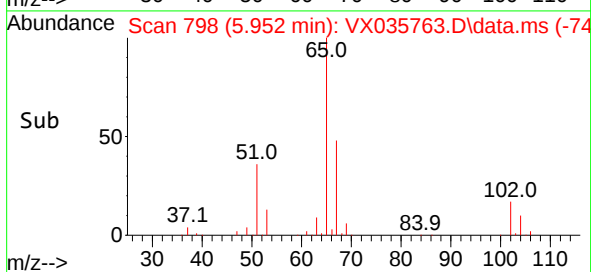
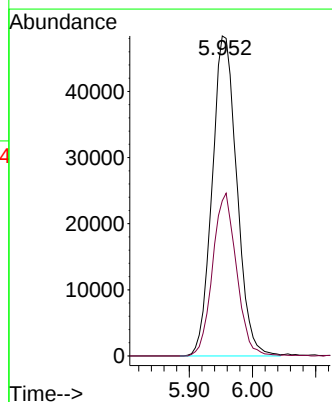
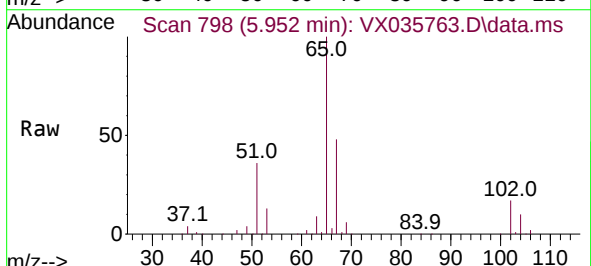


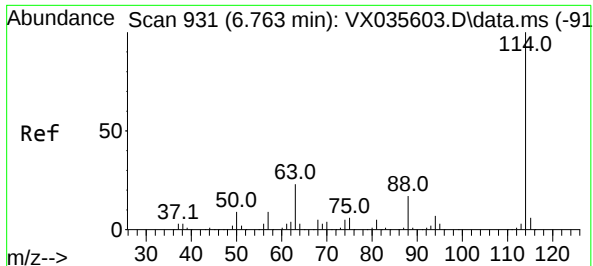
Tgt Ion: 56 Resp: 3944  
Ion Ratio Lower Upper  
56 100  
69 151.8 23.7 35.5#  
84 99.8 68.5 102.7



#33  
1,2-Dichloroethane-d4  
Concen: 55.625 ug/l  
RT: 5.952 min Scan# 798  
Delta R.T. 0.000 min  
Lab File: VX035763.D  
Acq: 19 May 2023 16:18

Tgt Ion: 65 Resp: 130833  
Ion Ratio Lower Upper  
65 100  
67 49.3 0.0 104.0

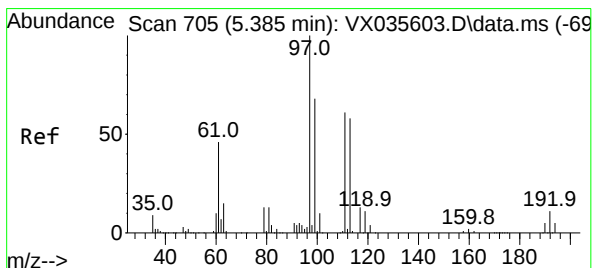
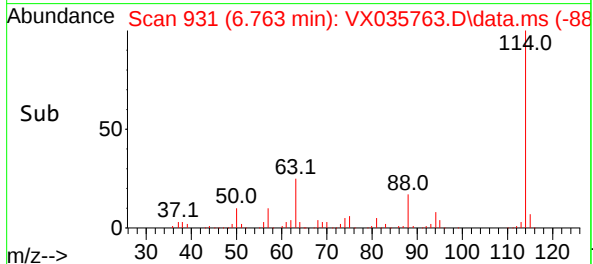
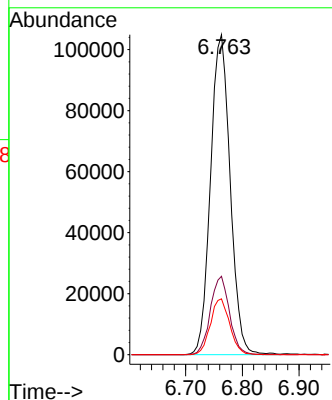
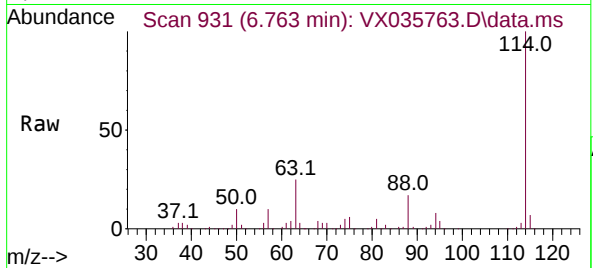




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 6.763 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: VX035763.D  
Acq: 19 May 2023 16:18

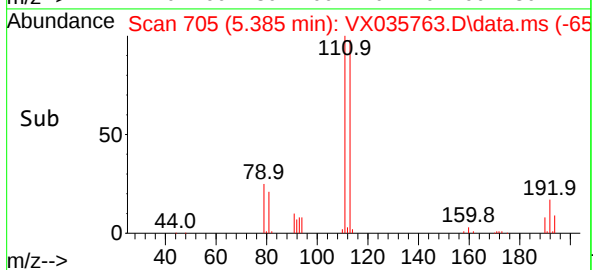
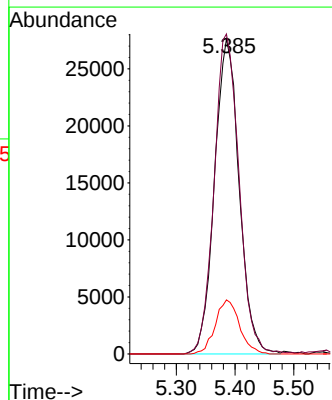
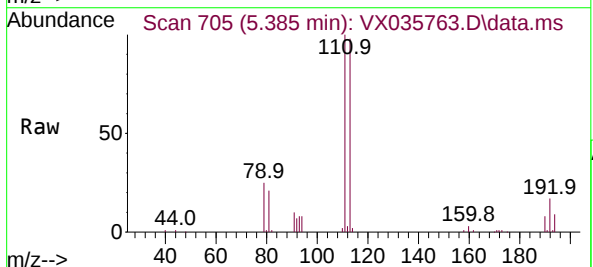
Instrument :  
MSVOA\_X  
ClientSampleId :

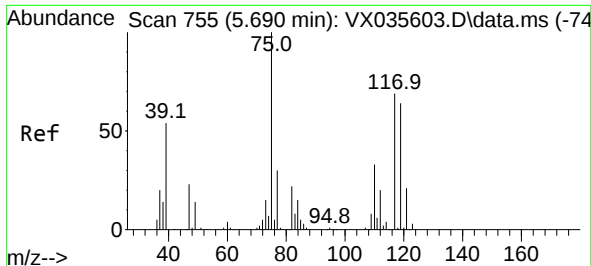
Tgt Ion:114 Resp: 252153  
Ion Ratio Lower Upper  
114 100  
63 24.5 0.0 42.2  
88 17.4 0.0 33.2



#35  
Dibromofluoromethane  
Concen: 47.210 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX035763.D  
Acq: 19 May 2023 16:18

Tgt Ion:113 Resp: 80282  
Ion Ratio Lower Upper  
113 100  
111 103.0 83.7 125.5  
192 16.9 15.4 23.2

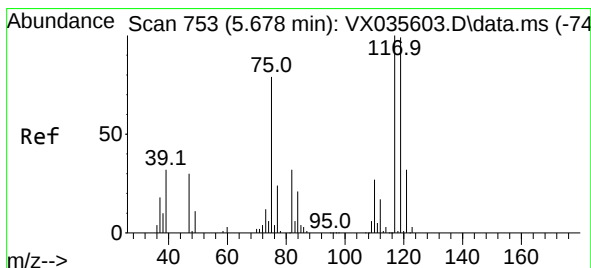
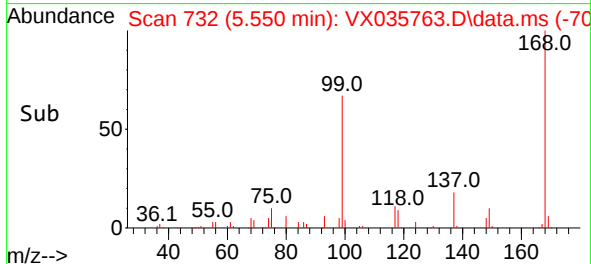
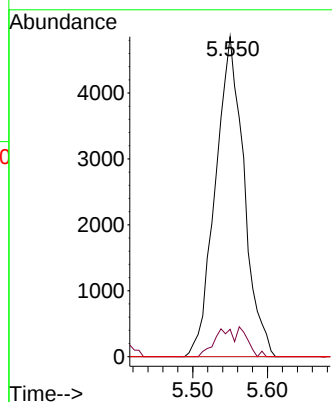
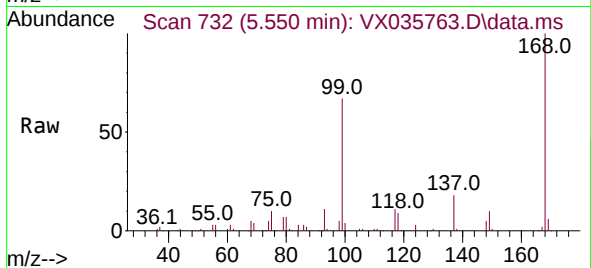




#36  
 1,1-Dichloropropene  
 Concen: 4.803 ug/l  
 RT: 5.550 min Scan# 711  
 Delta R.T. -0.140 min  
 Lab File: VX035763.D  
 Acq: 19 May 2023 16:18

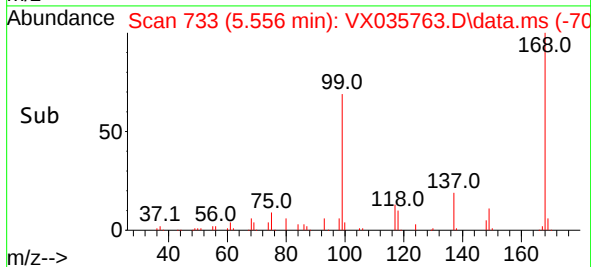
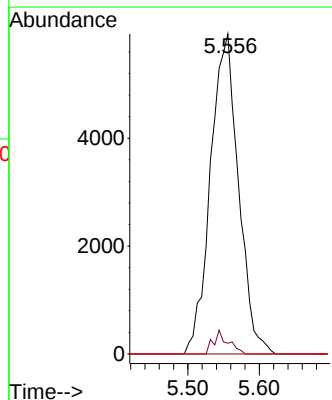
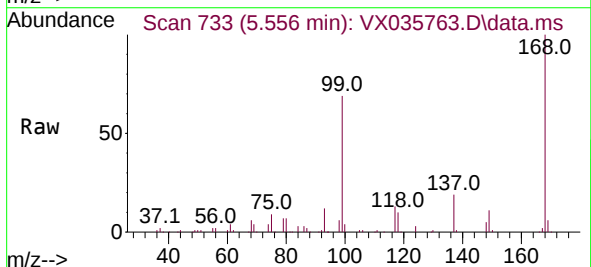
Instrument :  
 MSVOA\_X  
 ClientSampleId :

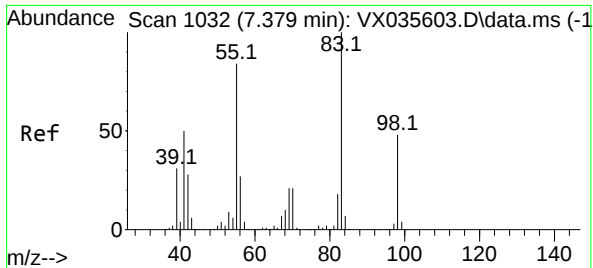
Tgt Ion: 75 Resp: 12892  
 Ion Ratio Lower Upper  
 75 100  
 110 5.9 17.5 52.5#  
 77 0.0 24.3 36.5#



#38  
 Carbon Tetrachloride  
 Concen: 6.355 ug/l  
 RT: 5.556 min Scan# 733  
 Delta R.T. -0.122 min  
 Lab File: VX035763.D  
 Acq: 19 May 2023 16:18

Tgt Ion: 117 Resp: 16158  
 Ion Ratio Lower Upper  
 117 100  
 119 3.4 76.6 114.8#  
 121 0.0 23.8 35.6#

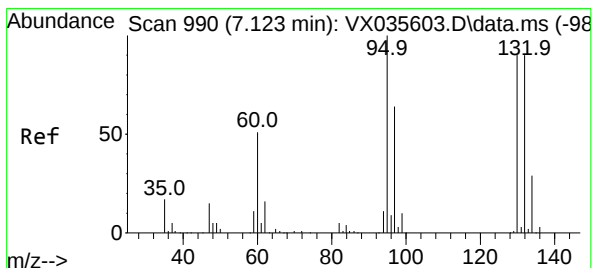
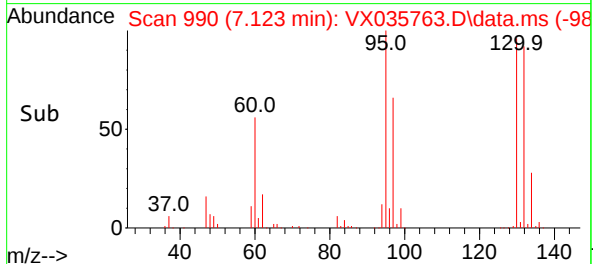
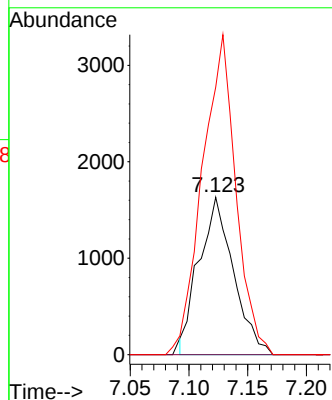
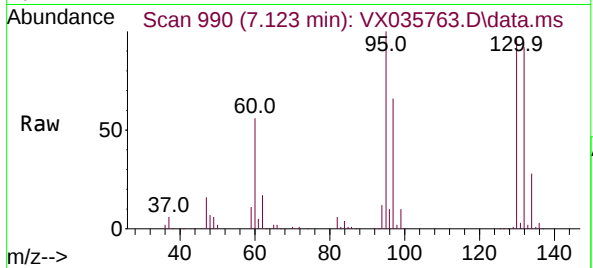




#39  
Methylcyclohexane  
Concen: 1.053 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.256 min  
Lab File: VX035763.D  
Acq: 19 May 2023 16:18

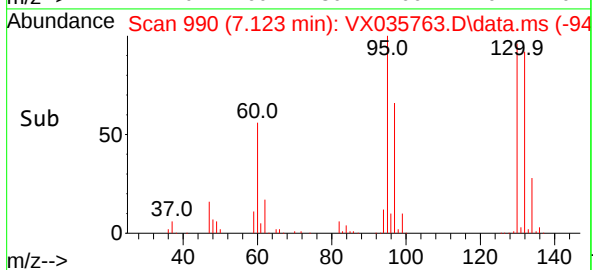
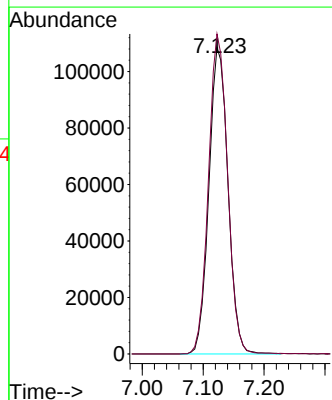
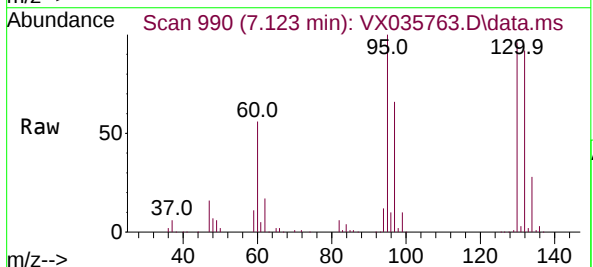
Instrument :  
MSVOA\_X  
ClientSampleId :

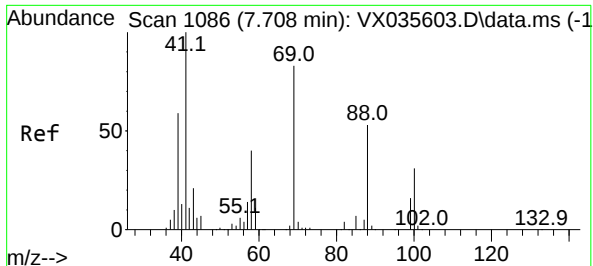
Tgt Ion: 83 Resp: 3326  
Ion Ratio Lower Upper  
83 100  
55 0.0 60.5 90.7#  
98 164.6 40.4 60.6#



#44  
Trichloroethene  
Concen: 124.097 ug/l  
RT: 7.123 min Scan# 990  
Delta R.T. -0.000 min  
Lab File: VX035763.D  
Acq: 19 May 2023 16:18

Tgt Ion:130 Resp: 236282  
Ion Ratio Lower Upper  
130 100  
95 104.4 0.0 198.4





#49

1,4-Dioxane

Concen: 3.011 ug/l

RT: 7.714 min Scan# 1086

Delta R.T. 0.006 min

Lab File: VX035763.D

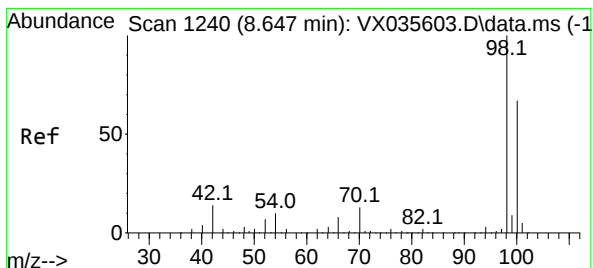
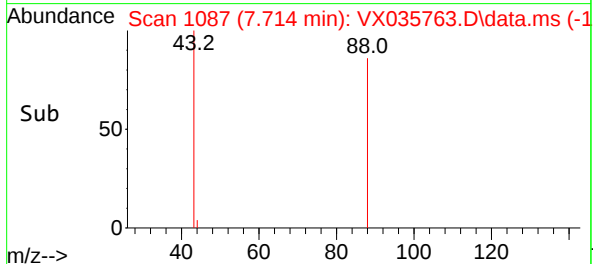
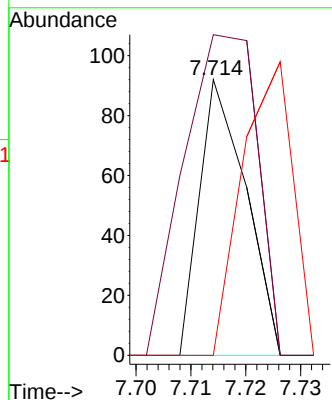
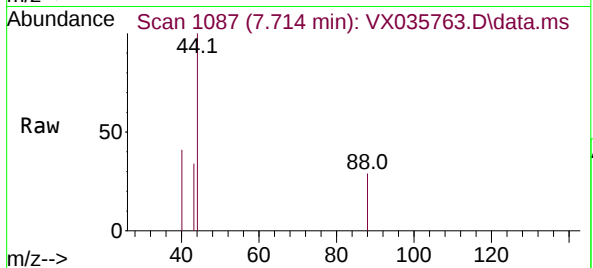
Acq: 19 May 2023 16:18

Instrument :

MSVOA\_X

ClientSampleId :

|             |                  |
|-------------|------------------|
| Tgt Ion: 88 | Resp: 54         |
| Ion Ratio   | Lower Upper      |
| 88          | 100              |
| 43          | 183.3 27.7 41.5# |
| 58          | 116.7 56.8 85.2# |



#50

Toluene-d8

Concen: 47.021 ug/l

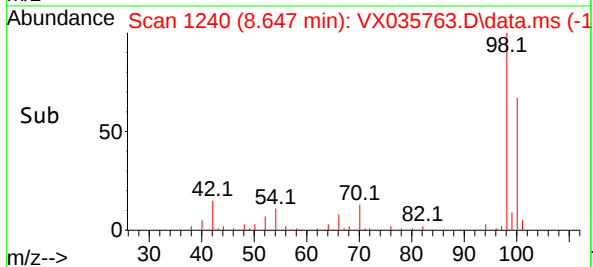
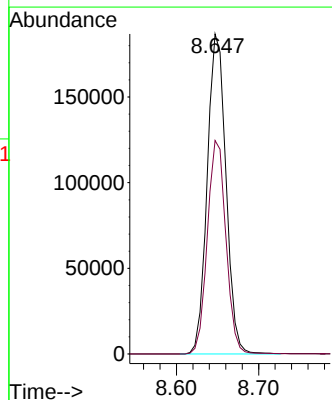
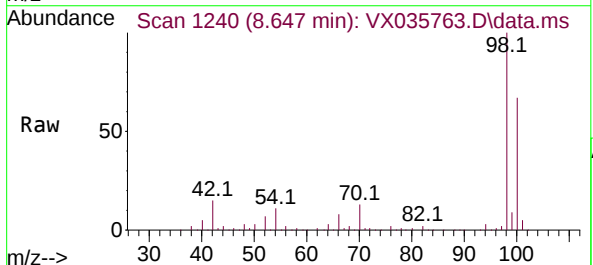
RT: 8.647 min Scan# 1240

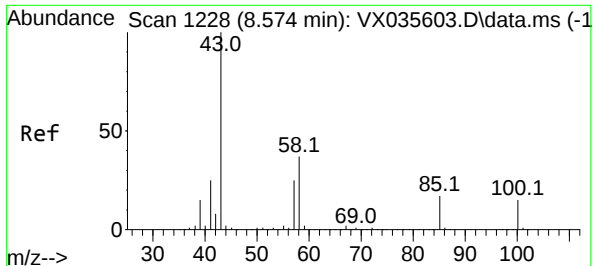
Delta R.T. -0.000 min

Lab File: VX035763.D

Acq: 19 May 2023 16:18

|             |                |
|-------------|----------------|
| Tgt Ion: 98 | Resp: 295392   |
| Ion Ratio   | Lower Upper    |
| 98          | 100            |
| 100         | 66.3 52.5 78.7 |





#51

4-Methyl-2-Pentanone

Concen: 0.622 ug/l

RT: 8.647 min Scan# 1162

Delta R.T. 0.073 min

Lab File: VX035763.D

Acq: 19 May 2023 16:18

Instrument :

MSVOA\_X

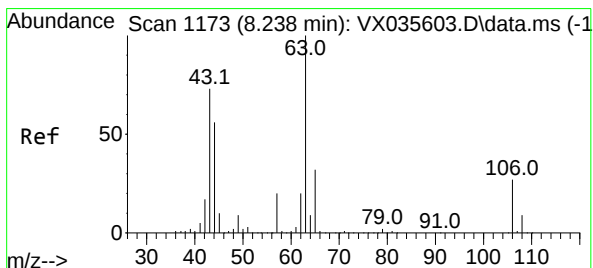
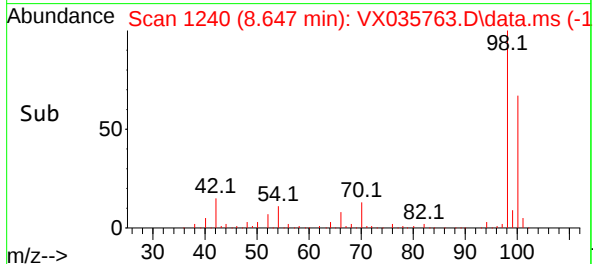
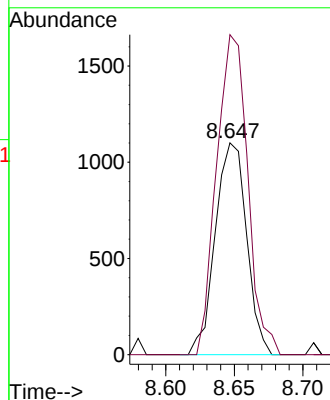
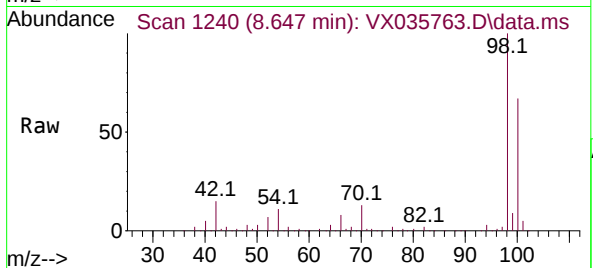
ClientSampleId :

Tgt Ion: 43 Resp: 1749

Ion Ratio Lower Upper

43 100

58 150.6 30.6 46.0#



#58

2-Chloroethyl Vinyl ether

Concen: 0.203 ug/l

RT: 8.171 min Scan# 1162

Delta R.T. -0.067 min

Lab File: VX035763.D

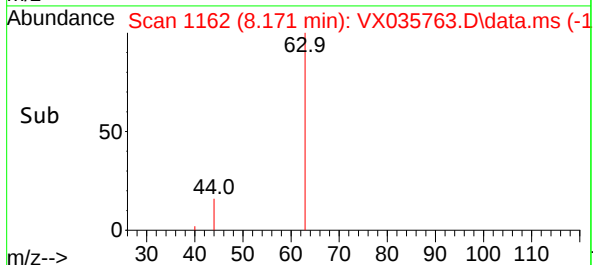
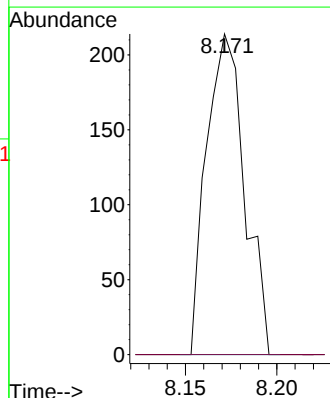
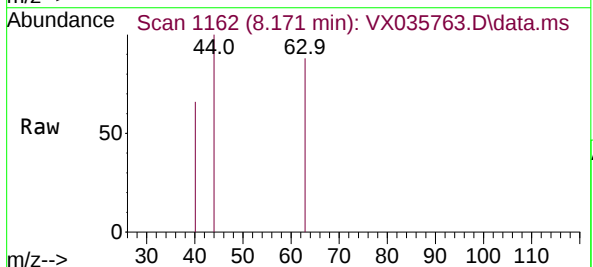
Acq: 19 May 2023 16:18

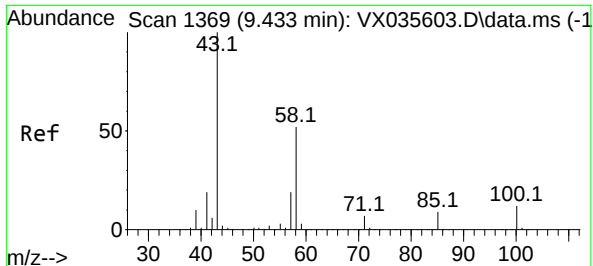
Tgt Ion: 63 Resp: 311

Ion Ratio Lower Upper

63 100

106 0.0 22.2 33.2#





#59

2-Hexanone

Concen: 1.419 ug/l

RT: 9.525 min Scan# 11

Delta R.T. 0.092 min

Lab File: VX035763.D

Acq: 19 May 2023 16:18

Instrument :

MSVOA\_X

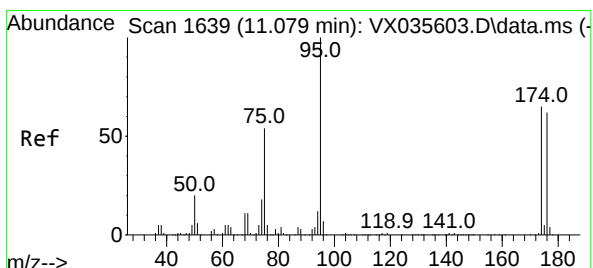
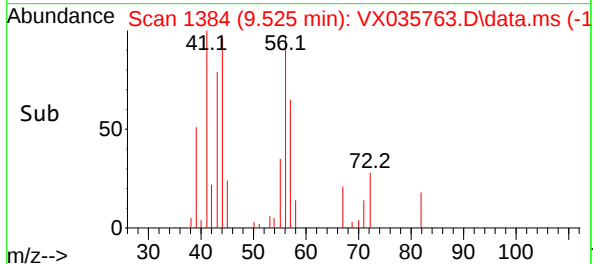
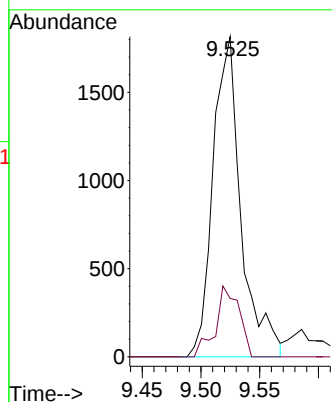
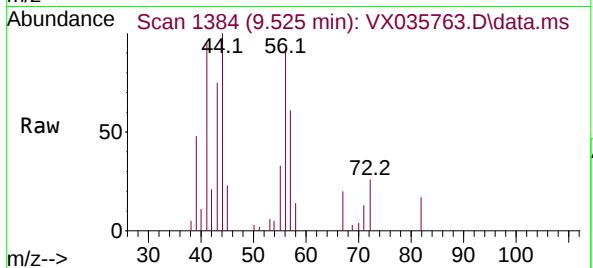
ClientSampleId :

Tgt Ion: 43 Resp: 3005

Ion Ratio Lower Upper

43 100

58 18.6 26.3 78.9#



#62

4-Bromofluorobenzene

Concen: 43.473 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX035763.D

Acq: 19 May 2023 16:18

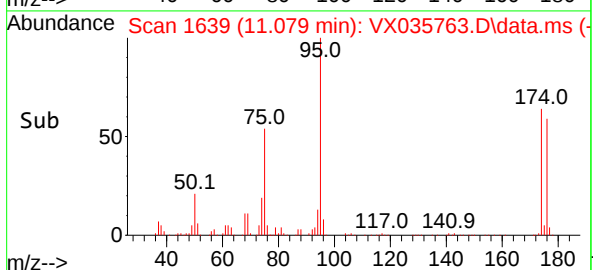
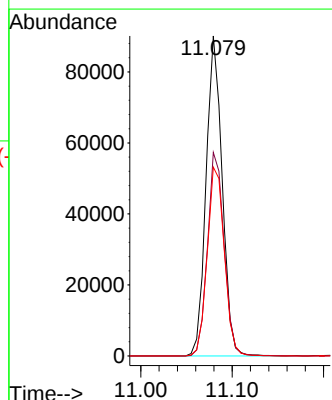
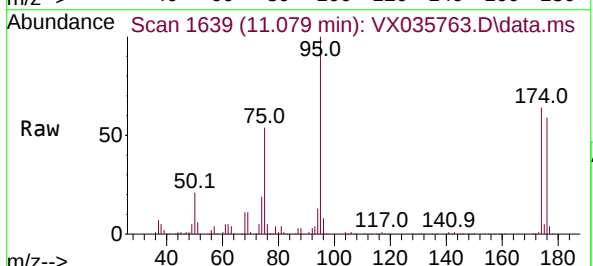
Tgt Ion: 95 Resp: 109963

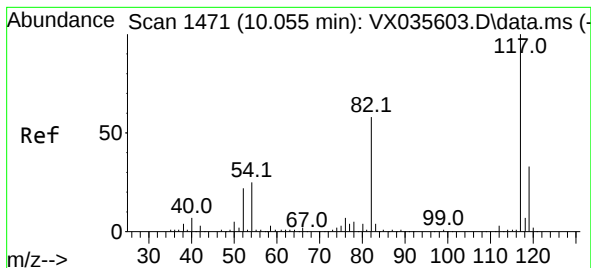
Ion Ratio Lower Upper

95 100

174 65.7 0.0 147.4

176 62.8 0.0 140.6





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX035763.D

Acq: 19 May 2023 16:18

Instrument :

MSVOA\_X

ClientSampleId :

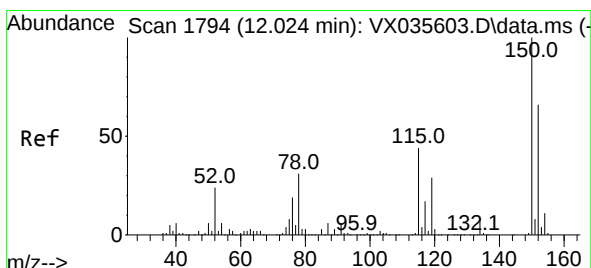
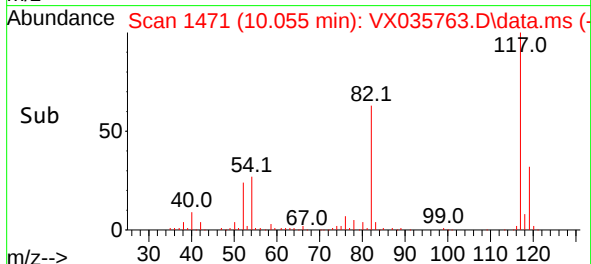
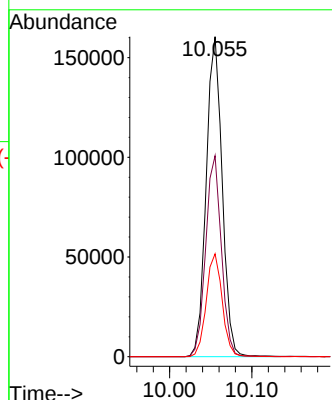
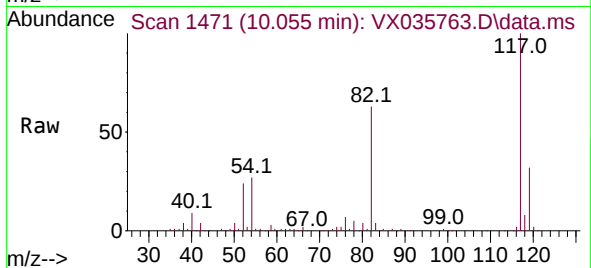
Tgt Ion:117 Resp: 216616

Ion Ratio Lower Upper

117 100

82 62.8 45.0 67.4

119 32.2 26.0 39.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX035763.D

Acq: 19 May 2023 16:18

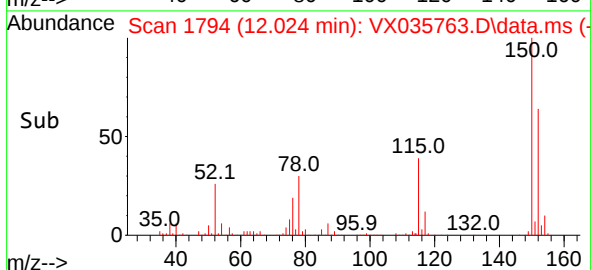
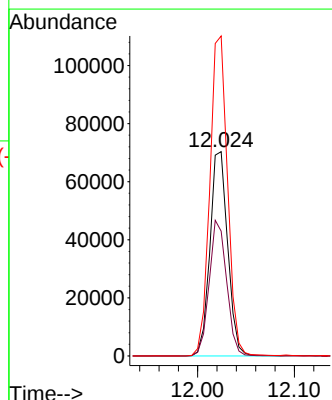
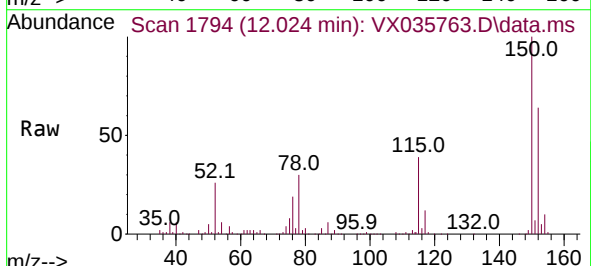
Tgt Ion:152 Resp: 89926

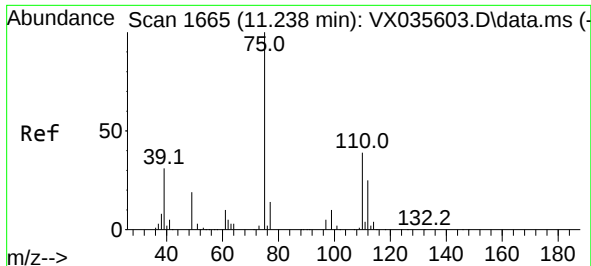
Ion Ratio Lower Upper

152 100

115 65.1 45.0 135.0

150 156.0 0.0 352.4

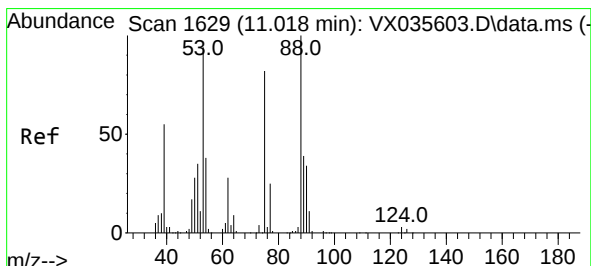
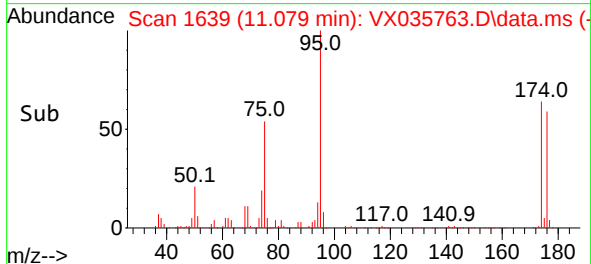
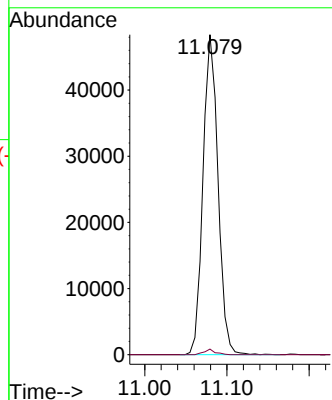
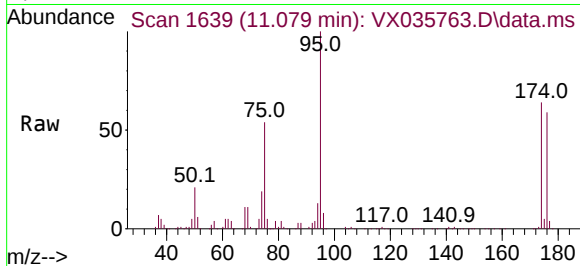




#76  
1,2,3-Trichloropropane  
Concen: 27.843 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.159 min  
Lab File: VX035763.D  
Acq: 19 May 2023 16:18

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 61243  
Ion Ratio Lower Upper  
75 100  
77 1.3 21.6 64.8#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 89.733 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX035763.D  
Acq: 19 May 2023 16:18

Tgt Ion: 75 Resp: 61243  
Ion Ratio Lower Upper  
75 100  
53 0.0 82.6 124.0#  
89 0.0 36.9 55.3#

