

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051324\  
 Data File : VX041493.D  
 Acq On : 13 May 2024 15:50  
 Operator : JC/MD  
 Sample : P2450-02  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 14 01:33:53 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X043024W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed May 08 06:03:16 2024  
 Response via : Initial Calibration

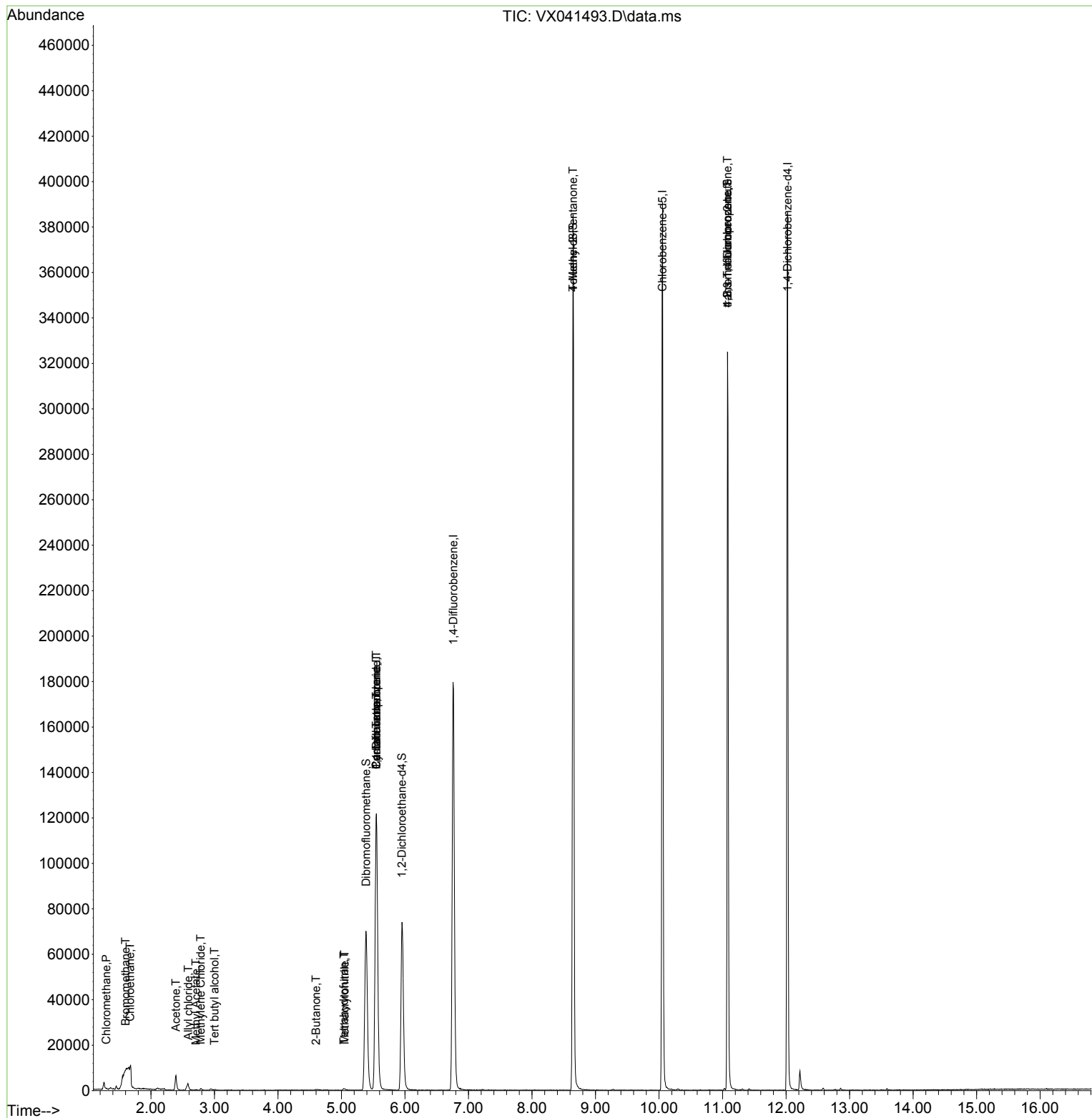
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 130271   | 50.000   | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 190933   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 181483   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 88840    | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 73662    | 51.941   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 103.880% |
| 35) Dibromofluoromethane      | 5.385  | 113   | 60735    | 46.940   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 93.880%  |
| 50) Toluene-d8                | 8.647  | 98    | 224267   | 54.762   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 109.520% |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 80028    | 50.481   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 100.960% |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 3) Chloromethane              | 1.294  | 50    | 239      | 0.216    | ug/l   | # 43     |
| 5) Bromomethane               | 1.599  | 94    | 308      | 0.465    | ug/l   | # 63     |
| 6) Chloroethane               | 1.672  | 64    | 124      | 0.253    | ug/l   | # 43     |
| 11) Tert butyl alcohol        | 3.001  | 59    | 416      | 1.466    | ug/l   | # 78     |
| 14) Allyl chloride            | 2.587  | 41    | 397      | 0.234    | ug/l   | # 64     |
| 16) Acetone                   | 2.392  | 43    | 7230     | 7.787    | ug/l   | 100      |
| 18) Methyl Acetate            | 2.709  | 43    | 370      | 0.255    | ug/l   | # 53     |
| 20) Methylene Chloride        | 2.782  | 84    | 337      | 0.274    | ug/l   | # 79     |
| 25) 2-Butanone                | 4.599  | 43    | 355      | 0.387    | ug/l   | # 51     |
| 29) Tetrahydrofuran           | 5.038  | 42    | 623      | 1.038    | ug/l   | # 60     |
| 31) Cyclohexane               | 5.550  | 56    | 2234     | 1.305    | ug/l   | # 4      |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 8537     | 5.518    | ug/l   | # 51     |
| 38) Carbon Tetrachloride      | 5.550  | 117   | 11539    | 6.510    | ug/l   | # 14     |
| 41) Methacrylonitrile         | 5.050  | 41    | 438      | 0.441    | ug/l   | # 51     |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 1089     | 0.625    | ug/l   | # 1      |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 42288    | 29.208   | ug/l   | # 39     |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 42288    | 79.560   | ug/l   | # 5      |
| -----                         |        |       |          |          |        |          |

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

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ALS Vial : 19 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

Quant Time: May 14 01:33:53 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X043024W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 08 06:03:16 2024  
Response via : Initial Calibration





#1  
Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.000 min

Lab File: VX041493.D

Acq: 13 May 2024 15:50

Instrument :

MSVOA\_X

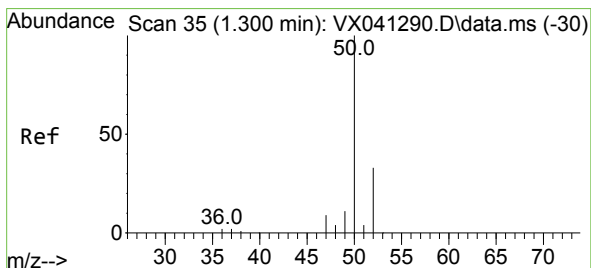
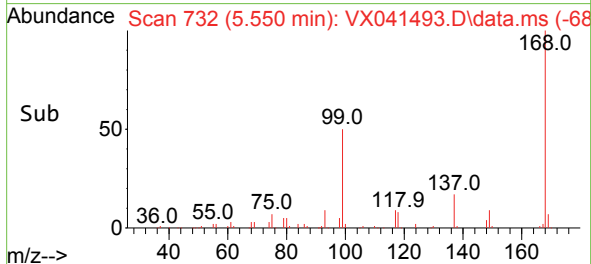
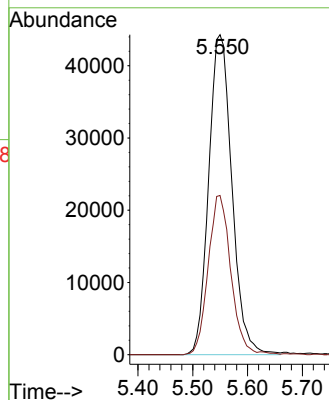
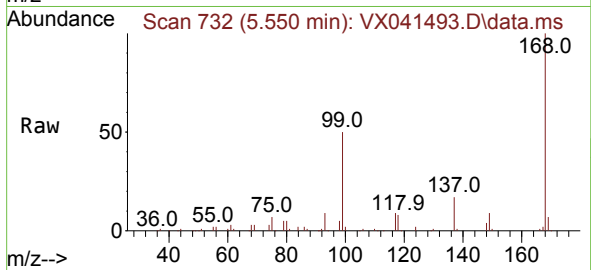
ClientSampleId :

Tgt Ion:168 Resp: 130271

Ion Ratio Lower Upper

168 100

99 49.7 56.6 85.0#



#3

Chloromethane

Concen: 0.216 ug/l

RT: 1.294 min Scan# 34

Delta R.T. -0.006 min

Lab File: VX041493.D

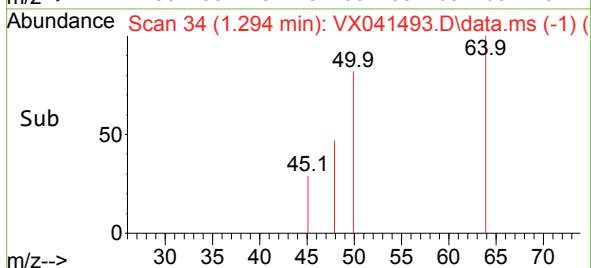
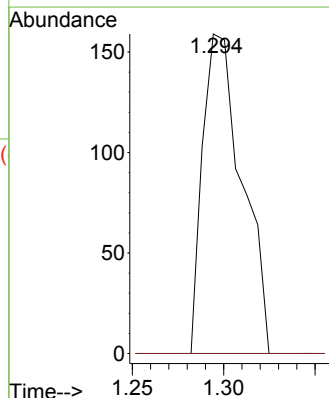
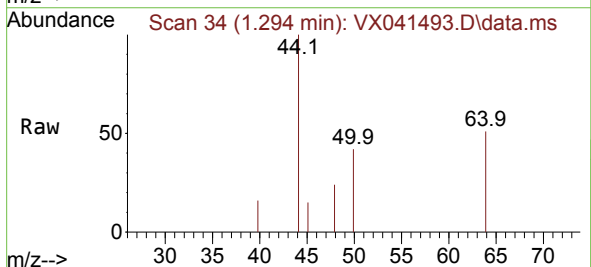
Acq: 13 May 2024 15:50

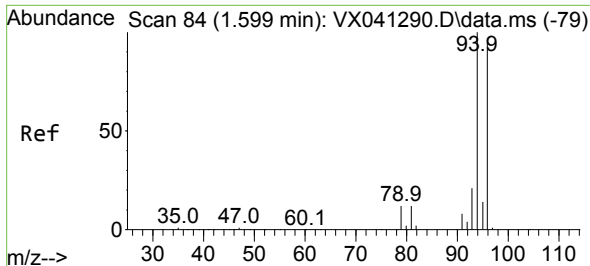
Tgt Ion: 50 Resp: 239

Ion Ratio Lower Upper

50 100

52 0.0 25.5 38.3#

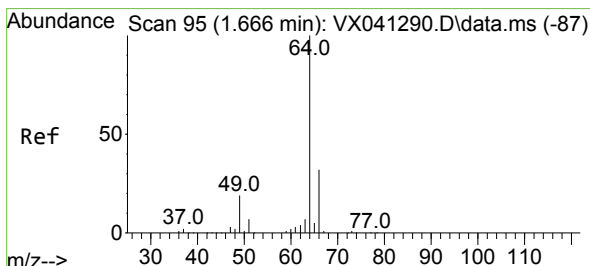
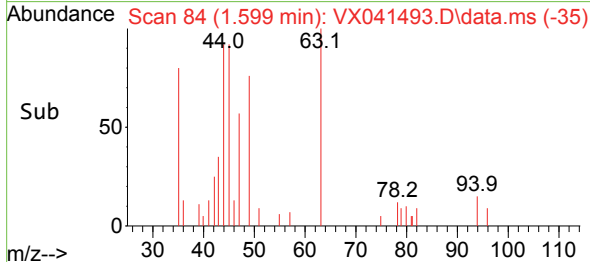
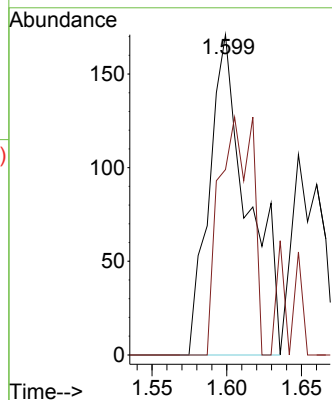
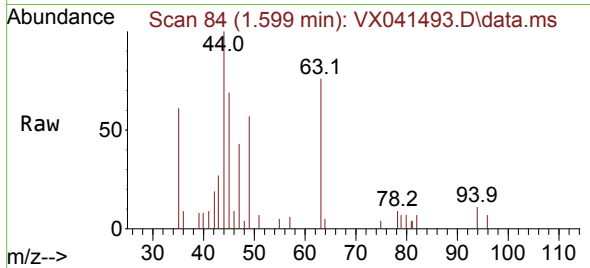




#5  
Bromomethane  
Concen: 0.465 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.000 min  
Lab File: VX041493.D  
Acq: 13 May 2024 15:50

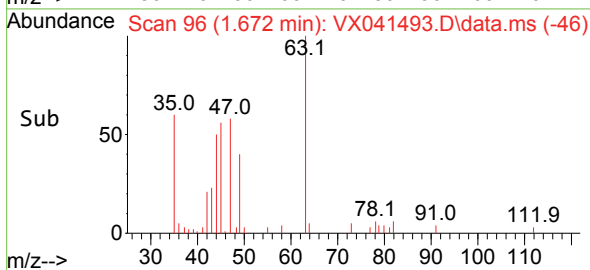
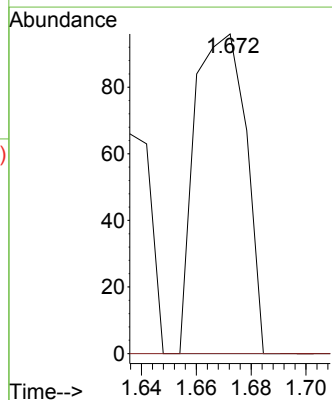
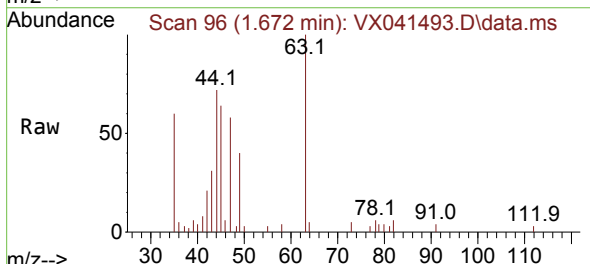
Instrument :  
MSVOA\_X  
ClientSampleId :

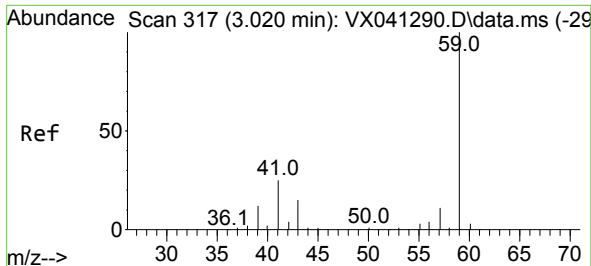
Tgt Ion: 94 Resp: 308  
Ion Ratio Lower Upper  
94 100  
96 57.9 74.6 111.8#



#6  
Chloroethane  
Concen: 0.253 ug/l  
RT: 1.672 min Scan# 96  
Delta R.T. 0.006 min  
Lab File: VX041493.D  
Acq: 13 May 2024 15:50

Tgt Ion: 64 Resp: 124  
Ion Ratio Lower Upper  
64 100  
66 0.0 25.1 37.7#





#11

Tert butyl alcohol

Concen: 1.466 ug/l

RT: 3.001 min Scan# 31

Delta R.T. -0.018 min

Lab File: VX041493.D

Acq: 13 May 2024 15:50

Instrument :

MSVOA\_X

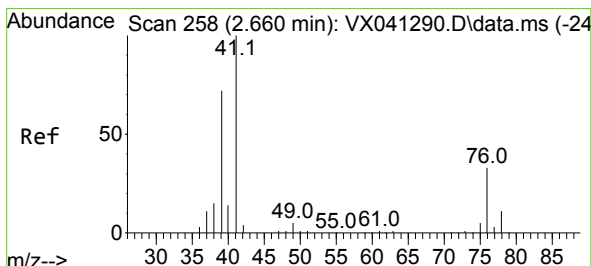
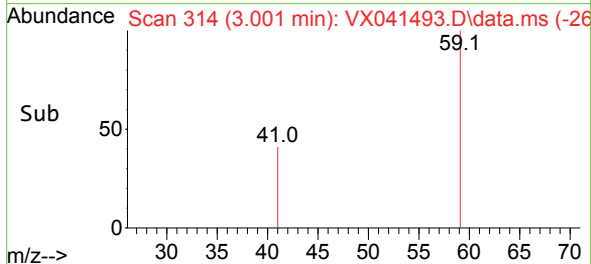
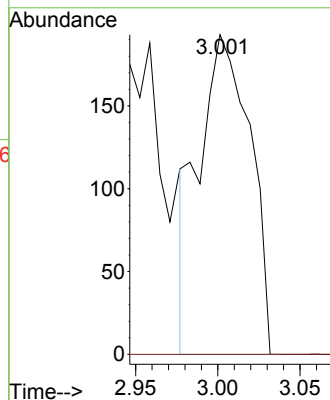
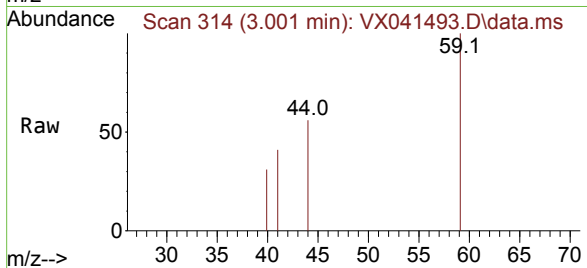
ClientSampleId :

Tgt Ion: 59 Resp: 416

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#14

Allyl chloride

Concen: 0.234 ug/l

RT: 2.587 min Scan# 246

Delta R.T. -0.073 min

Lab File: VX041493.D

Acq: 13 May 2024 15:50

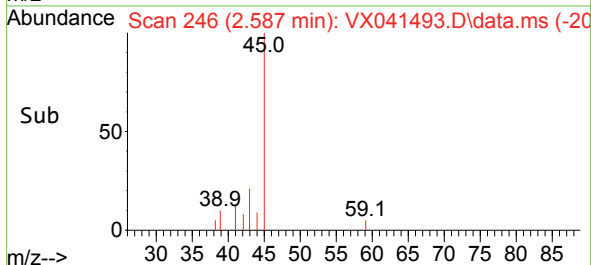
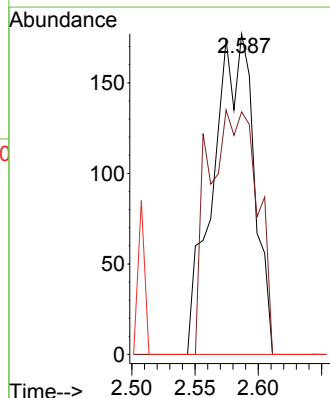
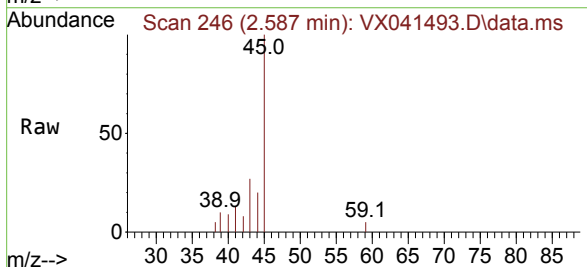
Tgt Ion: 41 Resp: 397

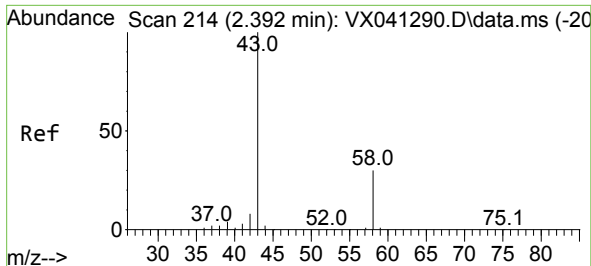
Ion Ratio Lower Upper

41 100

39 91.7 55.8 83.6#

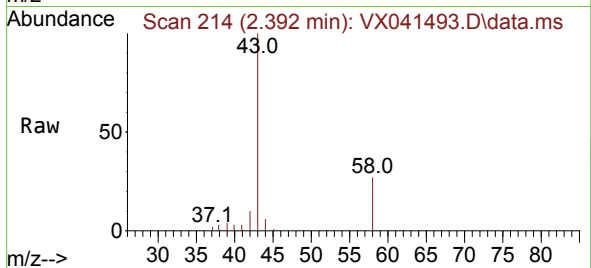
76 0.0 24.3 36.5#



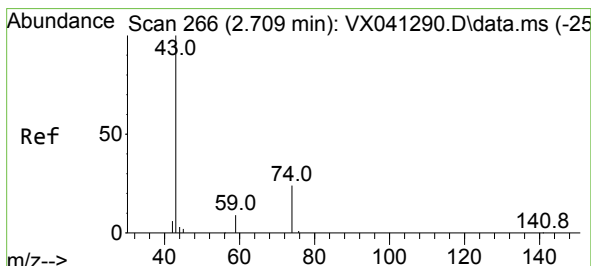
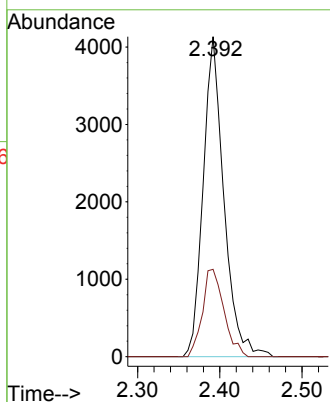
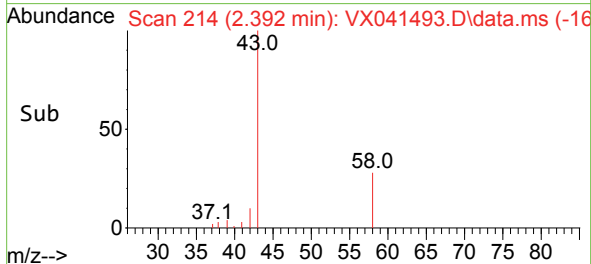


#16  
Acetone  
Concen: 7.787 ug/l  
RT: 2.392 min Scan# 214  
Delta R.T. -0.000 min  
Lab File: VX041493.D  
Acq: 13 May 2024 15:50

Instrument :  
MSVOA\_X  
ClientSampleId :

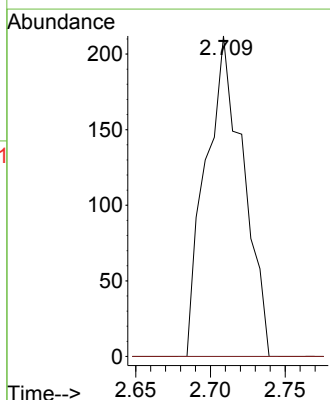
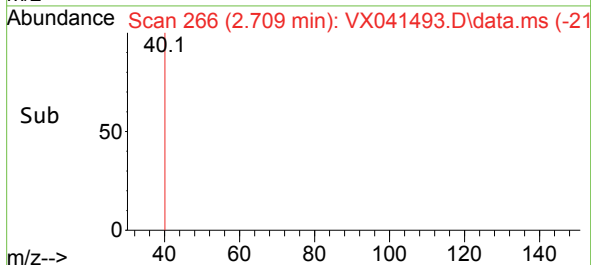
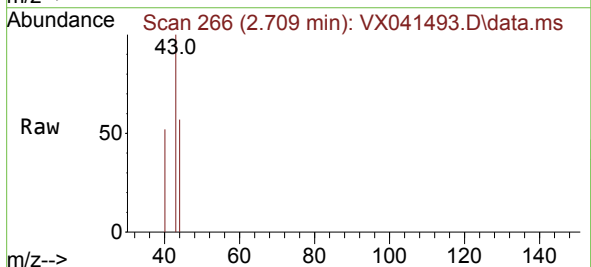


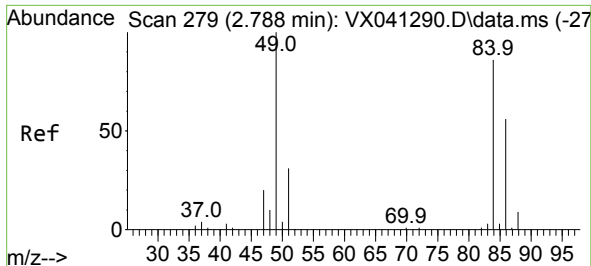
Tgt Ion: 43 Resp: 7230  
Ion Ratio Lower Upper  
43 100  
58 27.3 21.9 32.9



#18  
Methyl Acetate  
Concen: 0.255 ug/l  
RT: 2.709 min Scan# 266  
Delta R.T. -0.000 min  
Lab File: VX041493.D  
Acq: 13 May 2024 15:50

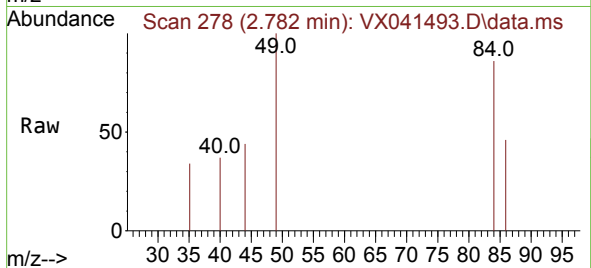
Tgt Ion: 43 Resp: 370  
Ion Ratio Lower Upper  
43 100  
74 0.0 17.8 26.8#



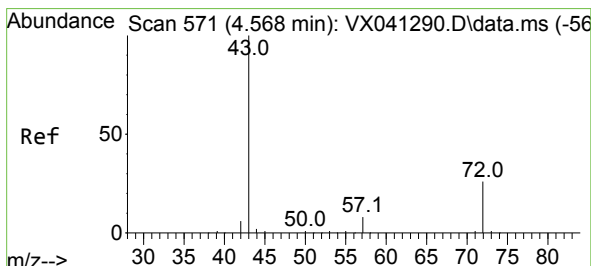
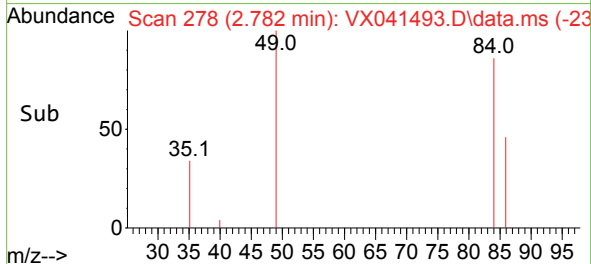
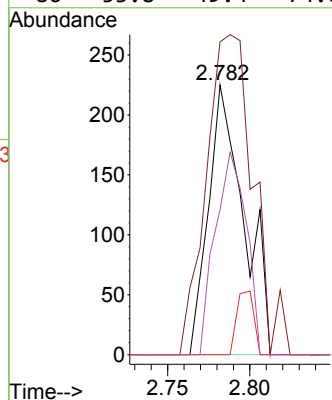


#20  
Methylene Chloride  
Concen: 0.274 ug/l  
RT: 2.782 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: VX041493.D  
Acq: 13 May 2024 15:50

Instrument :  
MSVOA\_X  
ClientSampleId :

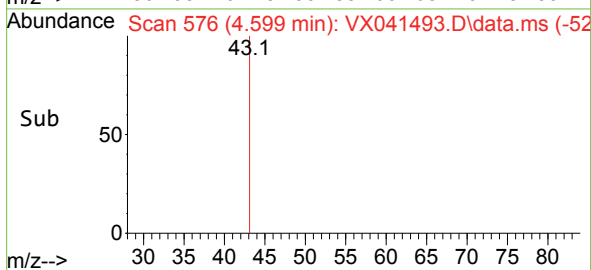
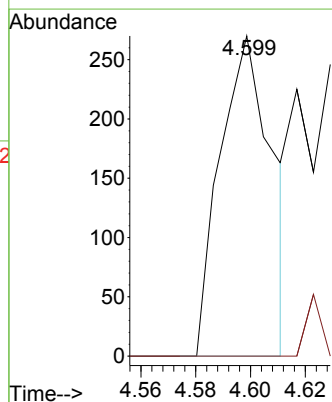
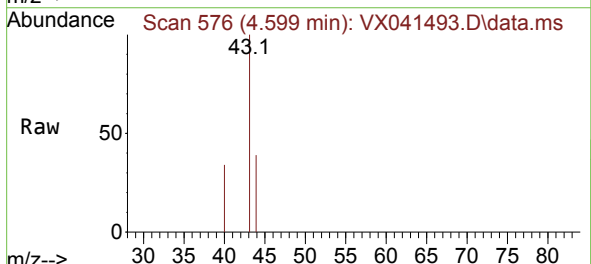


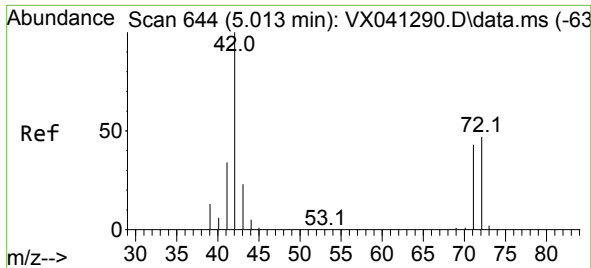
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 337   |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 116.0    | 103.6 155.4 |
| 51 0.0      | 33.8 50.6#  |
| 86 53.8     | 49.4 74.0   |



#25  
2-Butanone  
Concen: 0.387 ug/l  
RT: 4.599 min Scan# 576  
Delta R.T. 0.030 min  
Lab File: VX041493.D  
Acq: 13 May 2024 15:50

|             |           |       |  |
|-------------|-----------|-------|--|
| Tgt Ion: 43 | Resp: 355 |       |  |
| Ion Ratio   | Lower     | Upper |  |
| 43 100      |           |       |  |
| 72 0.0      | 19.4      | 29.2# |  |





#29

Tetrahydrofuran

Concen: 1.038 ug/l

RT: 5.038 min Scan# 644

Delta R.T. 0.024 min

Lab File: VX041493.D

Acq: 13 May 2024 15:50

Instrument :

MSVOA\_X

ClientSampleId :

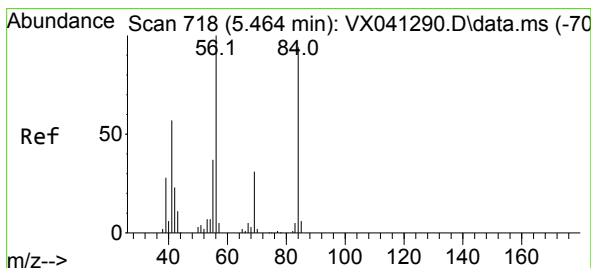
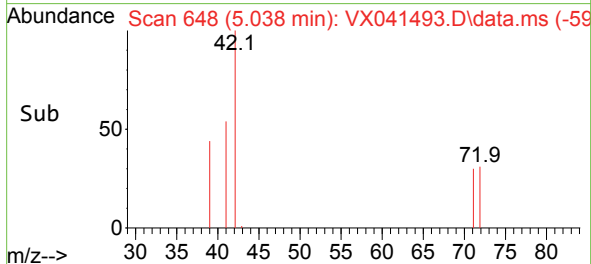
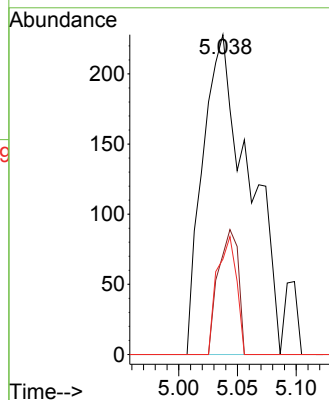
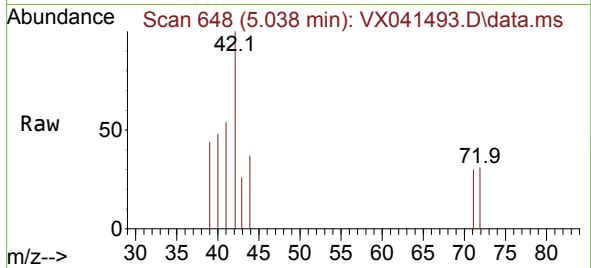
Tgt Ion: 42 Resp: 623

Ion Ratio Lower Upper

42 100

72 17.0 34.2 51.4#

71 15.4 32.2 48.2#



#31

Cyclohexane

Concen: 1.305 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.085 min

Lab File: VX041493.D

Acq: 13 May 2024 15:50

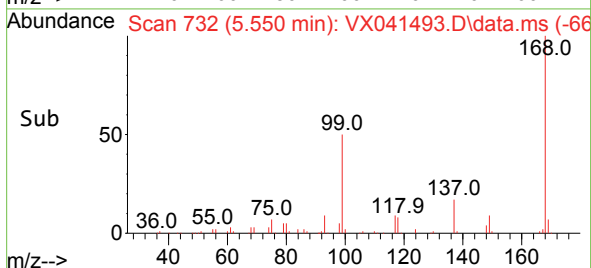
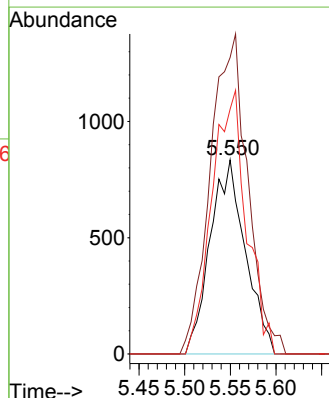
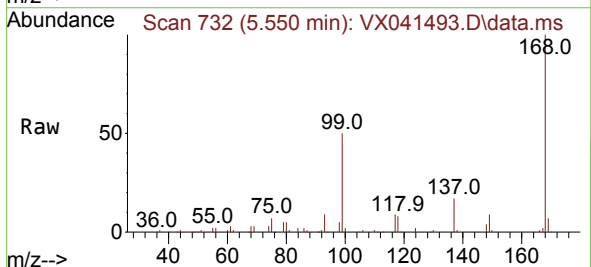
Tgt Ion: 56 Resp: 2234

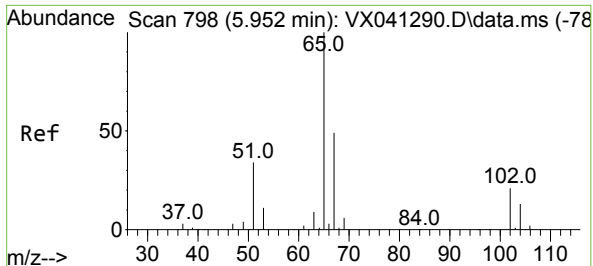
Ion Ratio Lower Upper

56 100

69 152.7 23.4 35.2#

84 126.1 65.9 98.9#

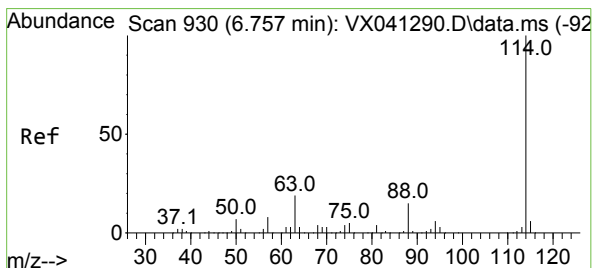
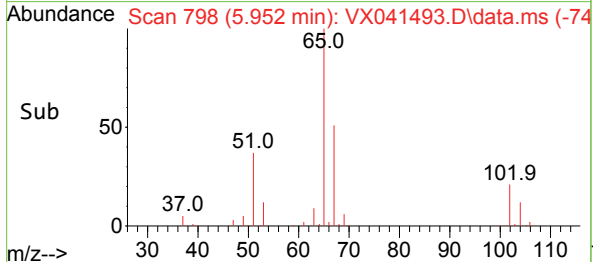
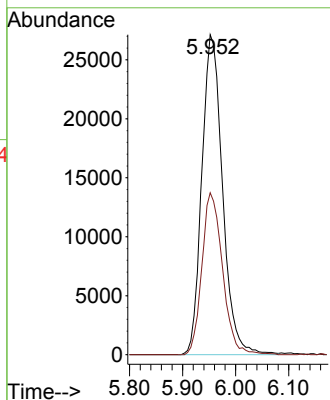
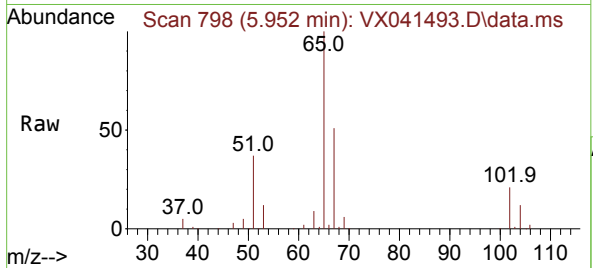




#33  
 1,2-Dichloroethane-d4  
 Concen: 51.941 ug/l  
 RT: 5.952 min Scan# 798  
 Delta R.T. -0.000 min  
 Lab File: VX041493.D  
 Acq: 13 May 2024 15:50

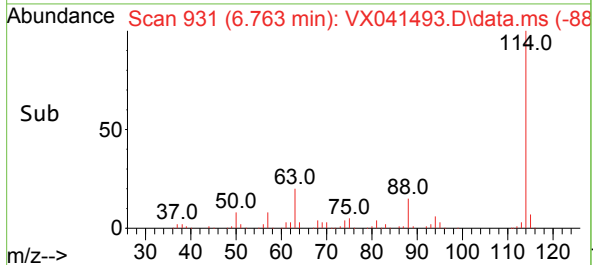
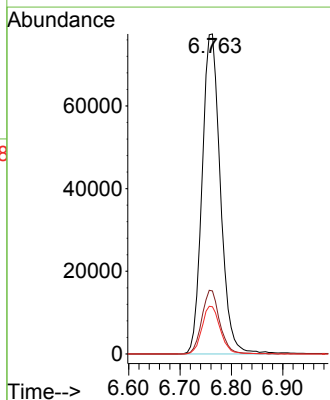
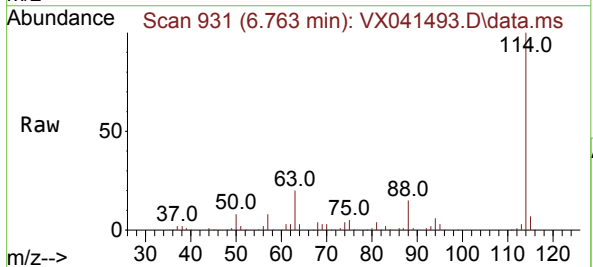
Instrument :  
 MSVOA\_X  
 ClientSampleId :

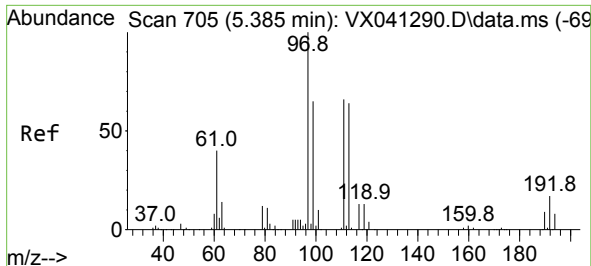
Tgt Ion: 65 Resp: 73662  
 Ion Ratio Lower Upper  
 65 100  
 67 50.5 0.0 100.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.763 min Scan# 931  
 Delta R.T. 0.006 min  
 Lab File: VX041493.D  
 Acq: 13 May 2024 15:50

Tgt Ion: 114 Resp: 190933  
 Ion Ratio Lower Upper  
 114 100  
 63 19.7 0.0 45.0  
 88 14.8 0.0 36.6

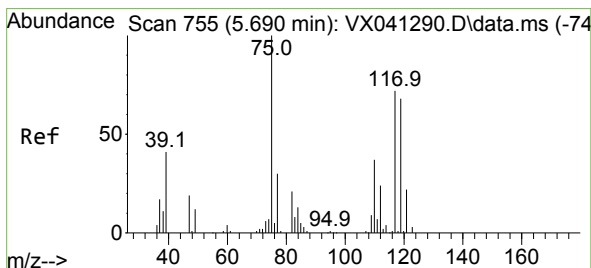
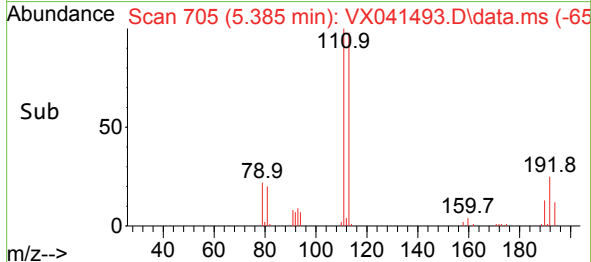
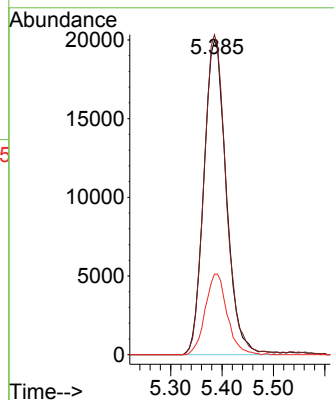
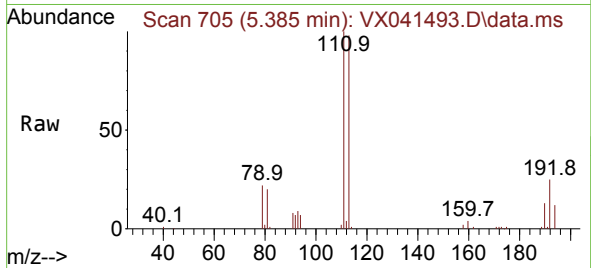




#35  
Dibromofluoromethane  
Concen: 46.940 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. -0.000 min  
Lab File: VX041493.D  
Acq: 13 May 2024 15:50

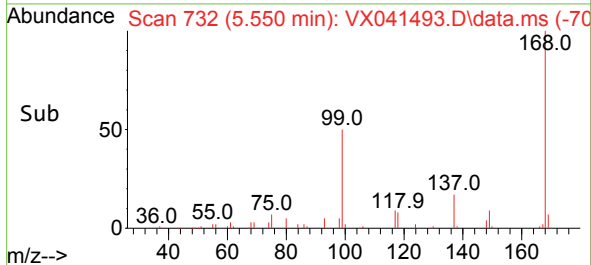
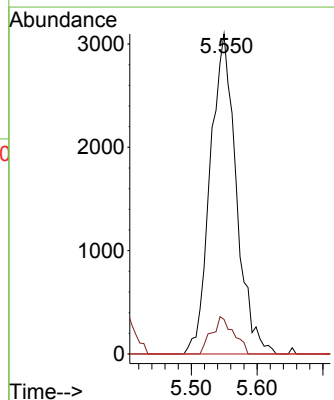
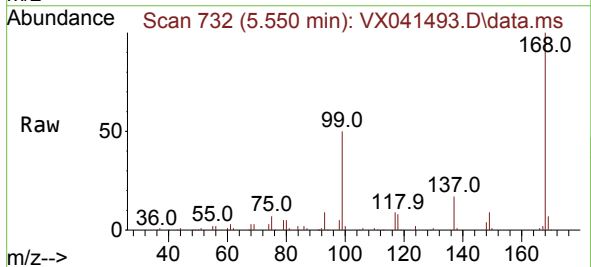
Instrument :  
MSVOA\_X  
ClientSampleId :

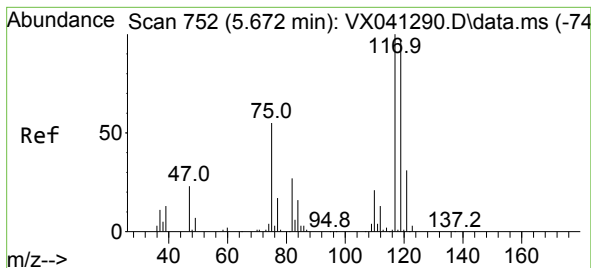
Tgt Ion:113 Resp: 60735  
Ion Ratio Lower Upper  
113 100  
111 100.4 82.9 124.3  
192 25.0 13.3 19.9#



#36  
1,1-Dichloropropene  
Concen: 5.518 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX041493.D  
Acq: 13 May 2024 15:50

Tgt Ion: 75 Resp: 8537  
Ion Ratio Lower Upper  
75 100  
110 9.8 17.0 50.9#  
77 0.0 24.7 37.1#





#38

Carbon Tetrachloride

Concen: 6.510 ug/l

RT: 5.550 min Scan# 71

Delta R.T. -0.122 min

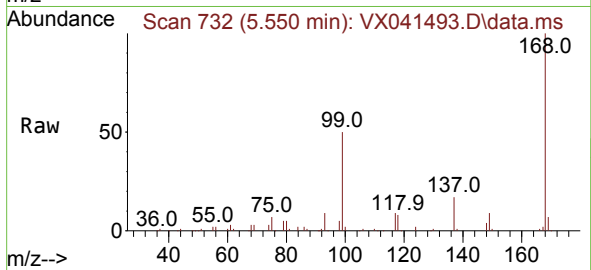
Lab File: VX041493.D

Acq: 13 May 2024 15:50

Instrument :

MSVOA\_X

ClientSampleId :



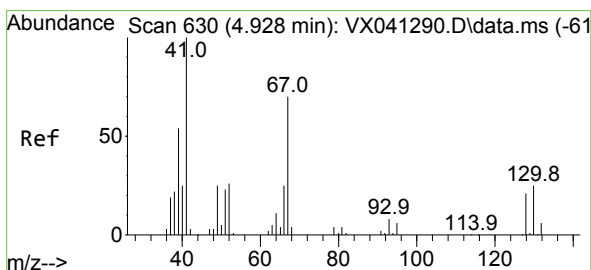
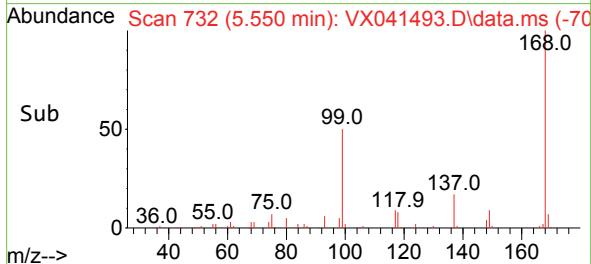
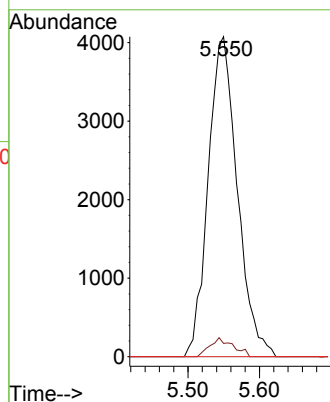
Tgt Ion:117 Resp: 11539

Ion Ratio Lower Upper

117 100

119 4.2 78.2 117.2#

121 0.0 24.4 36.6#



#41

Methacrylonitrile

Concen: 0.441 ug/l

RT: 5.050 min Scan# 650

Delta R.T. 0.122 min

Lab File: VX041493.D

Acq: 13 May 2024 15:50

Tgt Ion: 41 Resp: 438

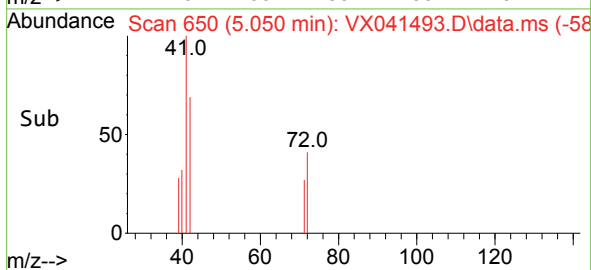
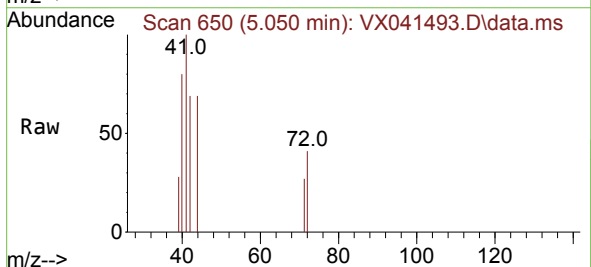
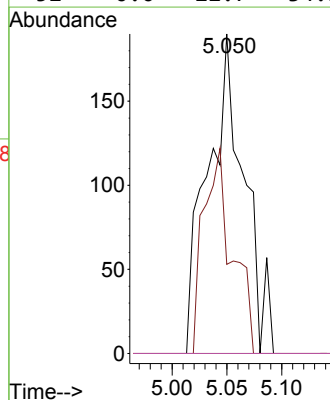
Ion Ratio Lower Upper

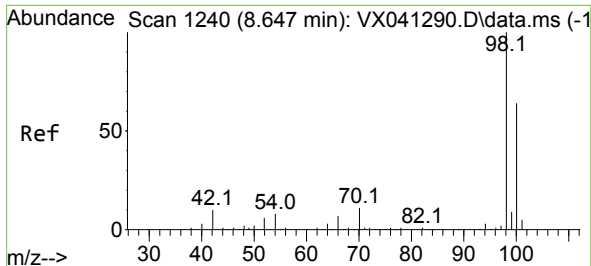
41 100

39 50.7 45.2 67.8

67 0.0 52.6 78.8#

52 0.0 22.7 34.1#

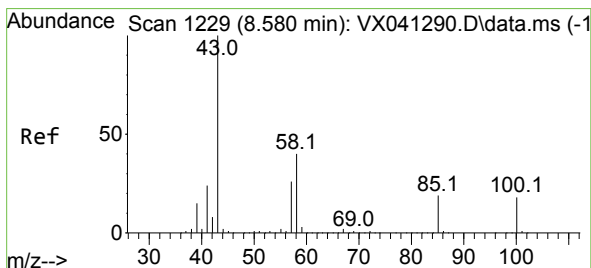
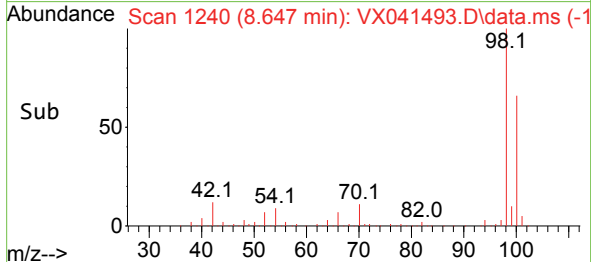
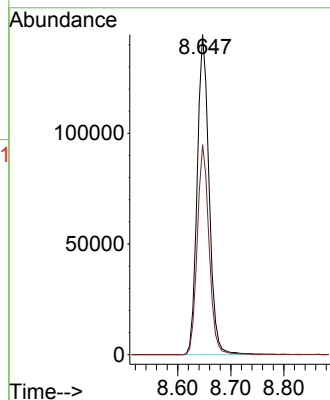
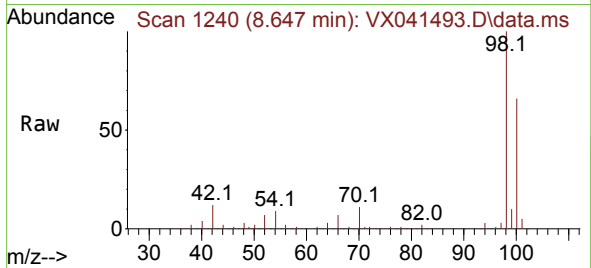




#50  
Toluene-d8  
Concen: 54.762 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VX041493.D  
Acq: 13 May 2024 15:50

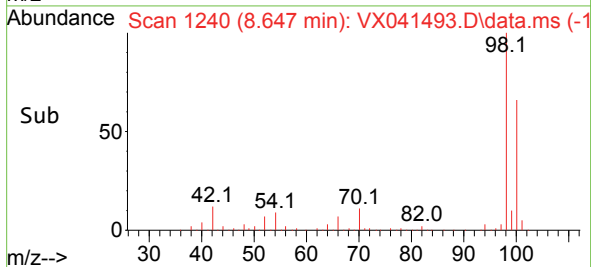
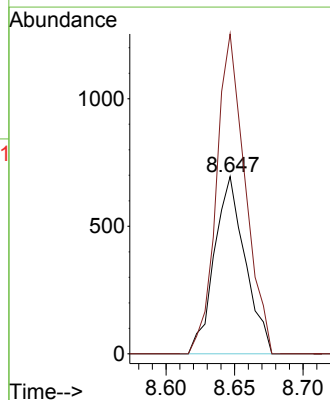
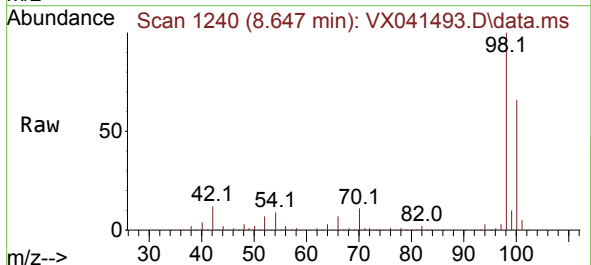
Instrument :  
MSVOA\_X  
ClientSampleId :

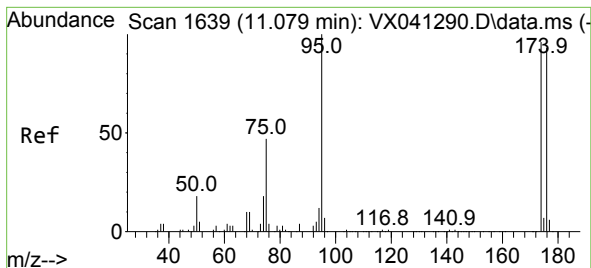
Tgt Ion: 98 Resp: 224267  
Ion Ratio Lower Upper  
98 100  
100 65.2 53.1 79.7



#51  
4-Methyl-2-Pentanone  
Concen: 0.625 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.067 min  
Lab File: VX041493.D  
Acq: 13 May 2024 15:50

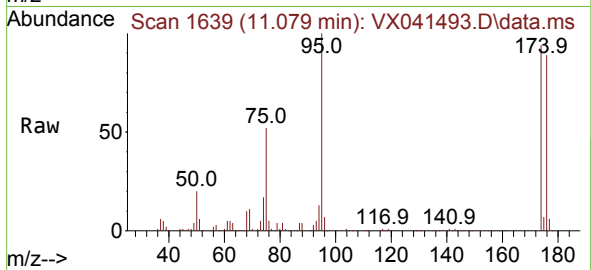
Tgt Ion: 43 Resp: 1089  
Ion Ratio Lower Upper  
43 100  
58 168.5 30.4 45.6#



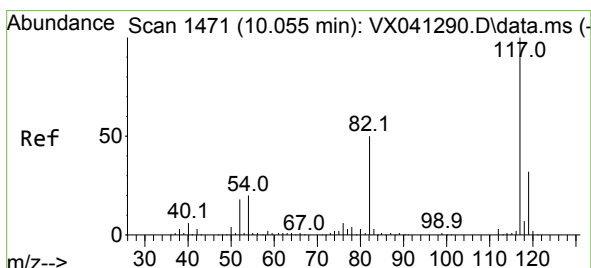
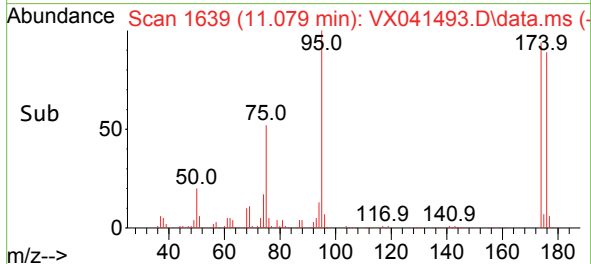
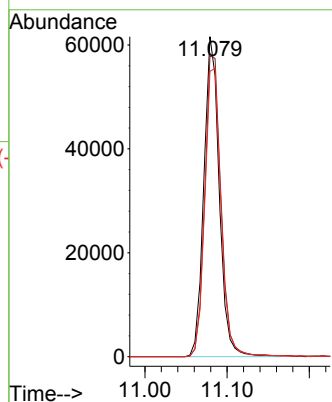


#62  
4-Bromofluorobenzene  
Concen: 50.481 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. -0.000 min  
Lab File: VX041493.D  
Acq: 13 May 2024 15:50

Instrument :  
MSVOA\_X  
ClientSampleId :

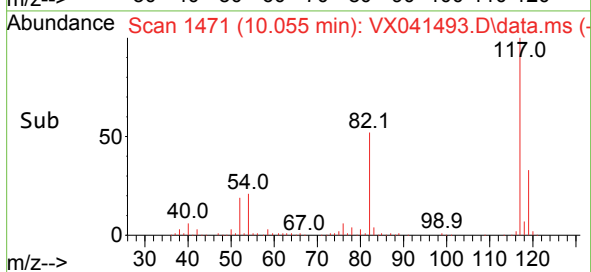
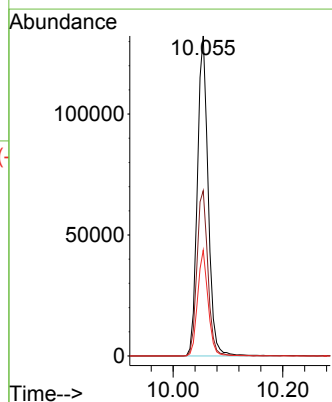
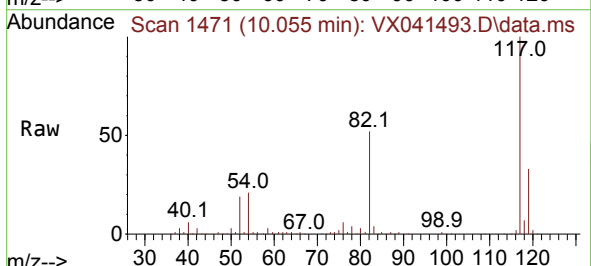


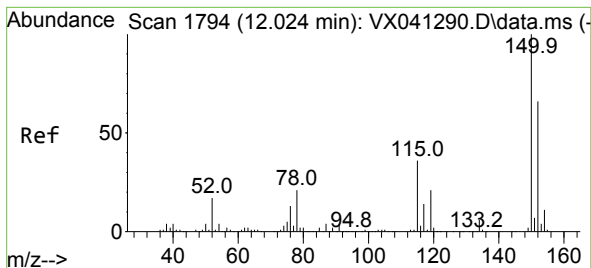
Tgt Ion: 95 Resp: 80028  
Ion Ratio Lower Upper  
95 100  
174 99.7 0.0 135.6  
176 95.3 0.0 131.0



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. -0.000 min  
Lab File: VX041493.D  
Acq: 13 May 2024 15:50

Tgt Ion: 117 Resp: 181483  
Ion Ratio Lower Upper  
117 100  
82 51.6 46.2 69.4  
119 33.1 25.5 38.3





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. -0.000 min

Lab File: VX041493.D

Acq: 13 May 2024 15:50

Instrument :

MSVOA\_X

ClientSampleId :

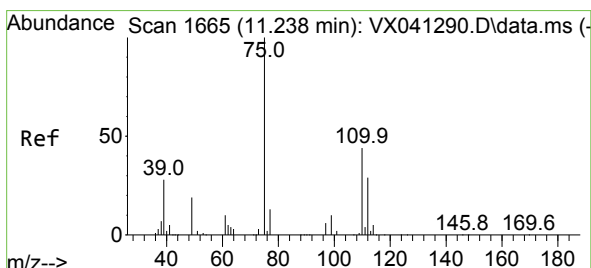
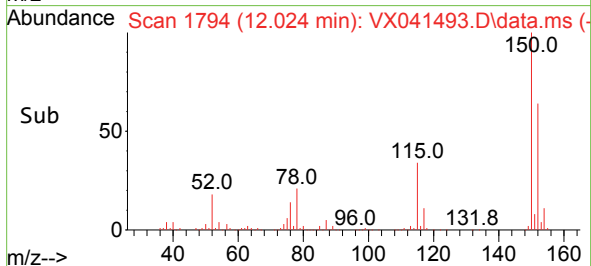
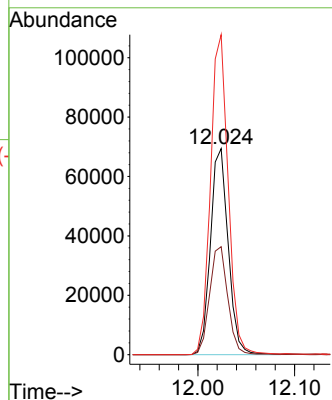
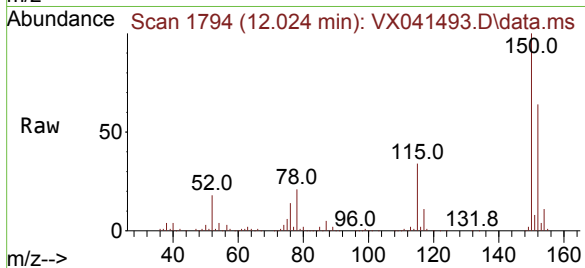
Tgt Ion:152 Resp: 88840

Ion Ratio Lower Upper

152 100

115 53.7 43.3 129.9

150 155.0 0.0 345.0



#76

1,2,3-Trichloropropane

Concen: 29.208 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX041493.D

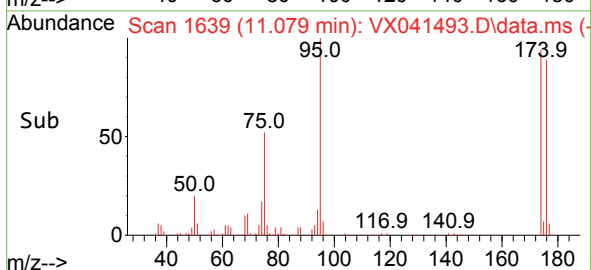
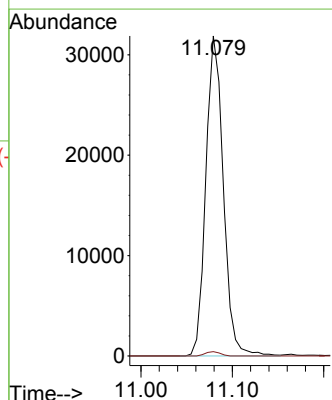
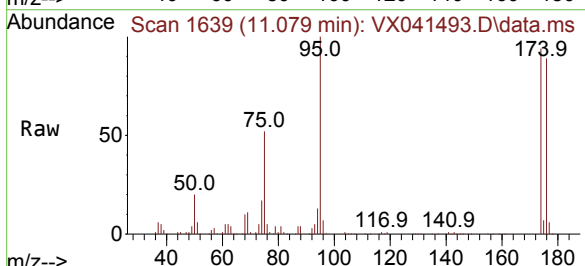
Acq: 13 May 2024 15:50

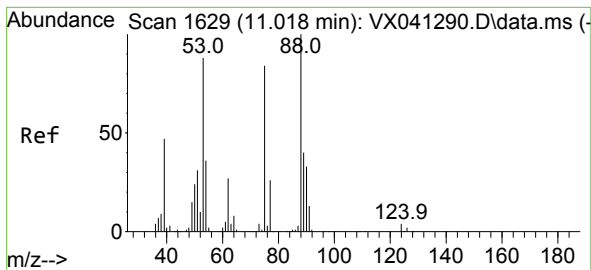
Tgt Ion: 75 Resp: 42288

Ion Ratio Lower Upper

75 100

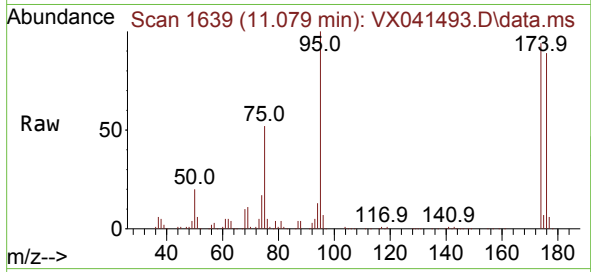
77 1.1 19.1 57.5#





#81  
trans-1,4-Dichloro-2-butene  
Concen: 79.560 ug/l  
RT: 11.079 min Scan# 1  
Delta R.T. 0.061 min  
Lab File: VX041493.D  
Acq: 13 May 2024 15:50

Instrument :  
MSVOA\_X  
ClientSampleId :



Tgt Ion: 75 Resp: 42288  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.1 36.9 55.3#

