

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051324\  
 Data File : VX041490.D  
 Acq On : 13 May 2024 14:41  
 Operator : JC/MD  
 Sample : P2449-05  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :

Quant Time: May 14 01:32:42 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

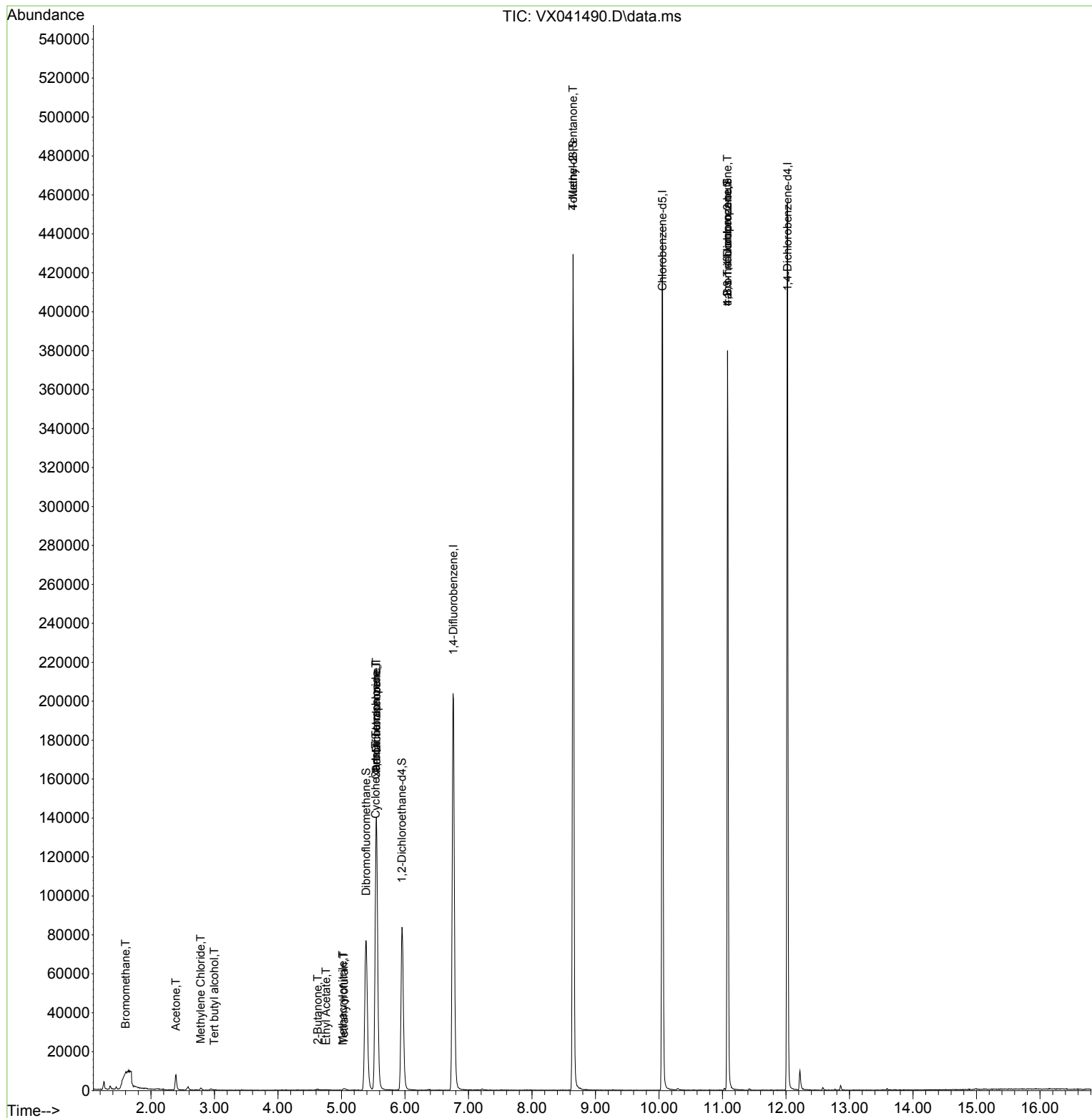
| Compound                      | R.T.   | QIon  | Response | Conc     | Units      | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|------------|----------|
| -----                         |        |       |          |          |            |          |
| Internal Standards            |        |       |          |          |            |          |
| 1) Pentafluorobenzene         | 5.550  | 168   | 148391   | 50.000   | ug/l       | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.763  | 114   | 218804   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5          | 10.055 | 117   | 209252   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024 | 152   | 102953   | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds   |        |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4     | 5.952  | 65    | 83872    | 51.919   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | = 103.840% |          |
| 35) Dibromofluoromethane      | 5.385  | 113   | 68249    | 46.028   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | = 92.060%  |          |
| 50) Toluene-d8                | 8.647  | 98    | 253202   | 53.952   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | = 107.900% |          |
| 62) 4-Bromofluorobenzene      | 11.079 | 95    | 92564    | 50.951   | ug/l       | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | = 101.900% |          |
| Target Compounds              |        |       |          |          |            |          |
|                               |        |       |          |          | Qvalue     |          |
| 5) Bromomethane               | 1.599  | 94    | 332      | 0.440    | ug/l       | 88       |
| 11) Tert butyl alcohol        | 2.995  | 59    | 515      | 1.593    | ug/l #     | 78       |
| 16) Acetone                   | 2.392  | 43    | 9019     | 8.906    | ug/l #     | 88       |
| 20) Methylene Chloride        | 2.782  | 84    | 494      | 0.352    | ug/l       | 88       |
| 25) 2-Butanone                | 4.623  | 43    | 1082     | 1.035    | ug/l       | 96       |
| 29) Tetrahydrofuran           | 5.038  | 42    | 922      | 1.348    | ug/l #     | 68       |
| 31) Cyclohexane               | 5.538  | 56    | 2489     | 1.277    | ug/l #     | 17       |
| 36) 1,1-Dichloropropene       | 5.550  | 75    | 9299     | 5.245    | ug/l #     | 51       |
| 37) Ethyl Acetate             | 4.757  | 43    | 722      | 0.326    | ug/l #     | 69       |
| 38) Carbon Tetrachloride      | 5.544  | 117   | 12773    | 6.289    | ug/l #     | 14       |
| 41) Methacrylonitrile         | 5.019  | 41    | 270      | 0.237    | ug/l #     | 25       |
| 51) 4-Methyl-2-Pentanone      | 8.647  | 43    | 1025     | 0.514    | ug/l #     | 1        |
| 76) 1,2,3-Trichloropropane    | 11.079 | 75    | 47614    | 28.379   | ug/l #     | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079 | 75    | 47614    | 77.300   | ug/l #     | 5        |
| -----                         |        |       |          |          |            |          |

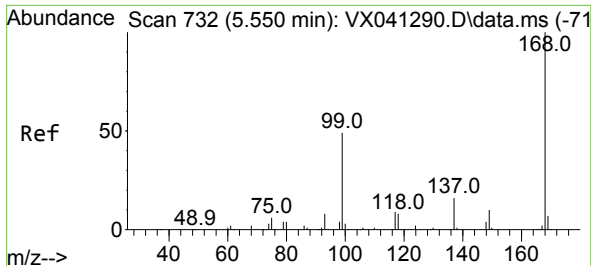
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX051324\  
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ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_X  
ClientSampleId :

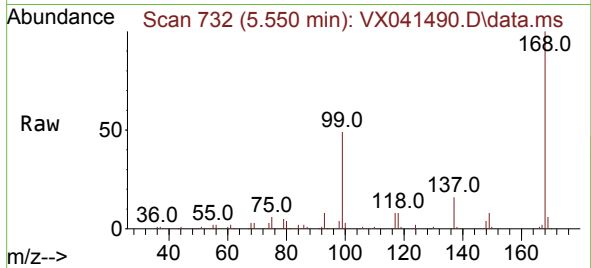
Quant Time: May 14 01:32:42 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X043024W.M  
Quant Title : SW846 8260  
QLast Update : Wed May 08 06:03:16 2024  
Response via : Initial Calibration



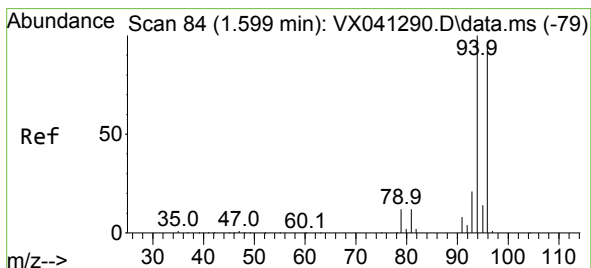
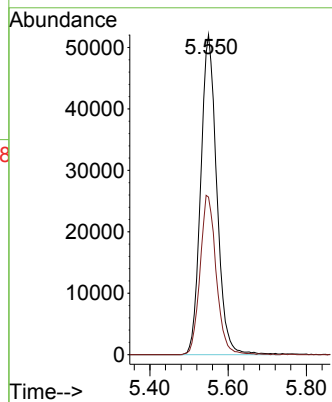
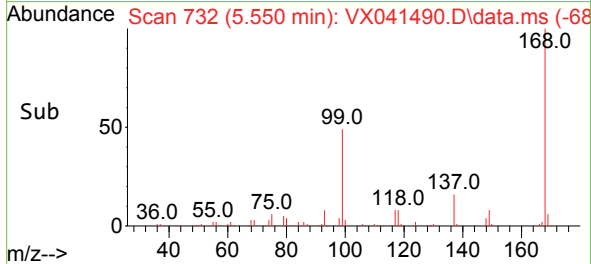


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.550 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: VX041490.D  
Acq: 13 May 2024 14:41

Instrument :  
MSVOA\_X  
ClientSampleId :

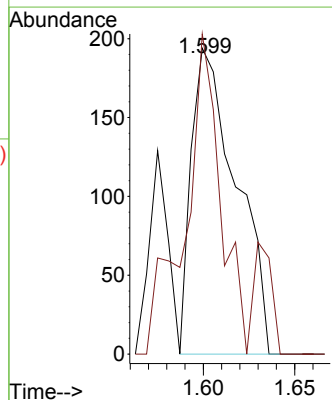
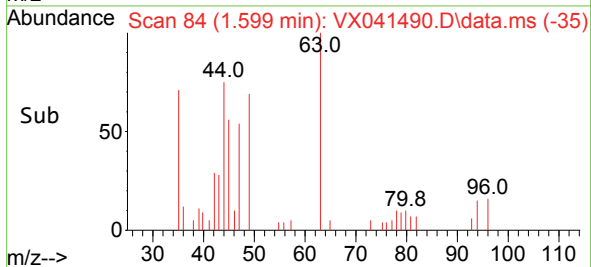
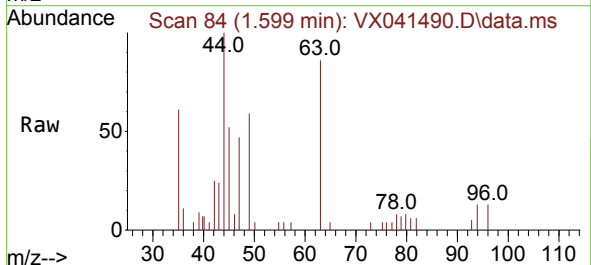


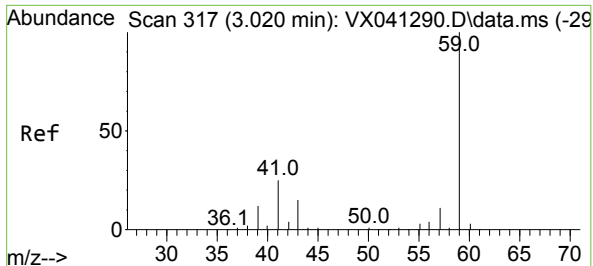
Tgt Ion:168 Resp: 148391  
Ion Ratio Lower Upper  
168 100  
99 49.3 56.6 85.0#



#5  
Bromomethane  
Concen: 0.440 ug/l  
RT: 1.599 min Scan# 84  
Delta R.T. 0.000 min  
Lab File: VX041490.D  
Acq: 13 May 2024 14:41

Tgt Ion: 94 Resp: 332  
Ion Ratio Lower Upper  
94 100  
96 104.6 74.6 111.8





#11

Tert butyl alcohol

Concen: 1.593 ug/l

RT: 2.995 min Scan# 31

Delta R.T. -0.024 min

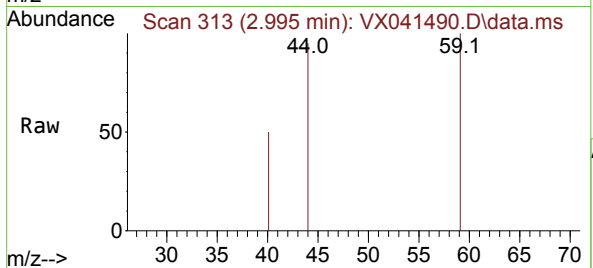
Lab File: VX041490.D

Acq: 13 May 2024 14:41

Instrument :

MSVOA\_X

ClientSampleId :

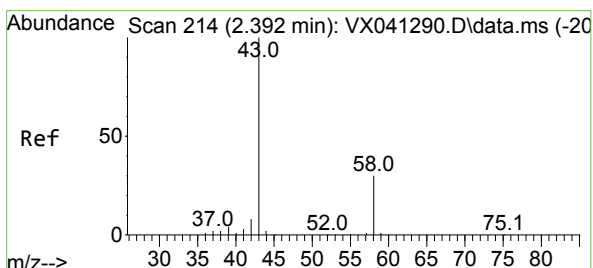
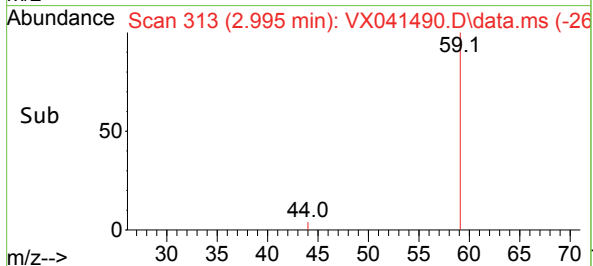
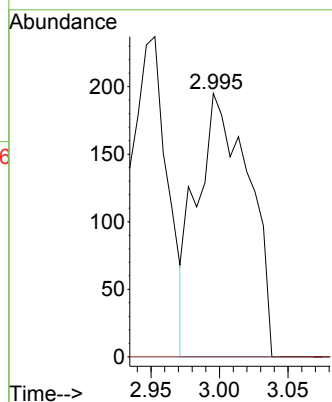


Tgt Ion: 59 Resp: 515

Ion Ratio Lower Upper

59 100

57 0.0 6.0 9.0#



#16

Acetone

Concen: 8.906 ug/l

RT: 2.392 min Scan# 214

Delta R.T. -0.000 min

Lab File: VX041490.D

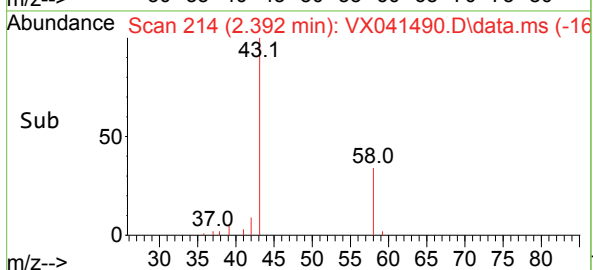
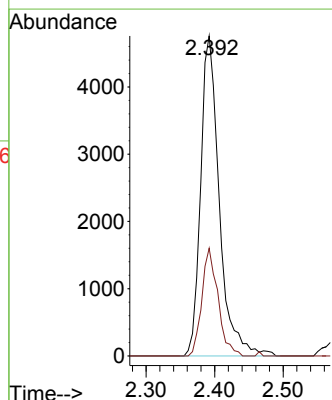
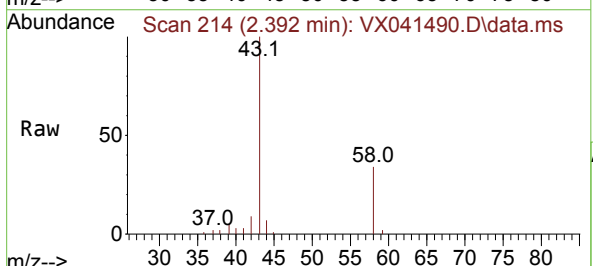
Acq: 13 May 2024 14:41

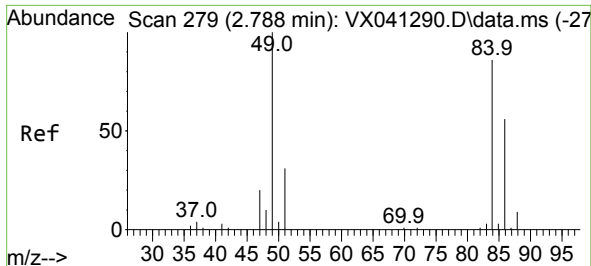
Tgt Ion: 43 Resp: 9019

Ion Ratio Lower Upper

43 100

58 33.6 21.9 32.9#





#20

Methylene Chloride

Concen: 0.352 ug/l

RT: 2.782 min Scan# 21

Delta R.T. -0.006 min

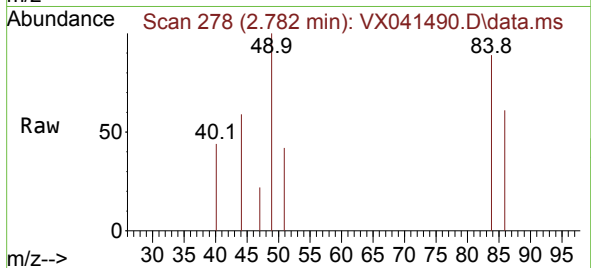
Lab File: VX041490.D

Acq: 13 May 2024 14:41

Instrument :

MSVOA\_X

ClientSampleId :



Tgt Ion: 84 Resp: 494

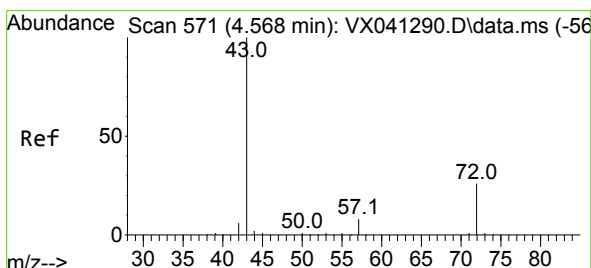
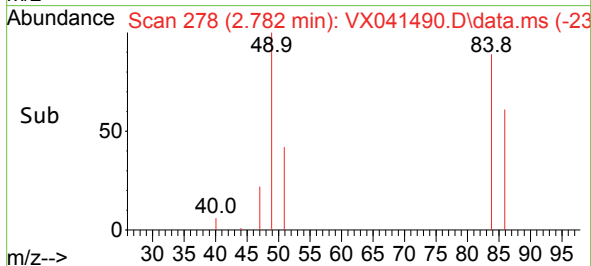
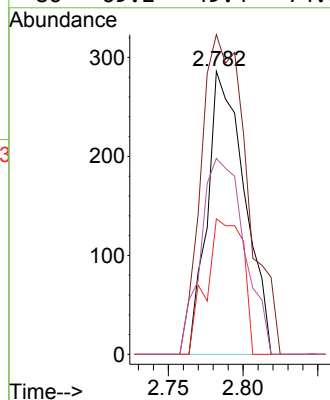
Ion Ratio Lower Upper

84 100

49 112.9 103.6 155.4

51 47.9 33.8 50.6

86 69.2 49.4 74.0



#25

2-Butanone

Concen: 1.035 ug/l

RT: 4.623 min Scan# 580

Delta R.T. 0.055 min

Lab File: VX041490.D

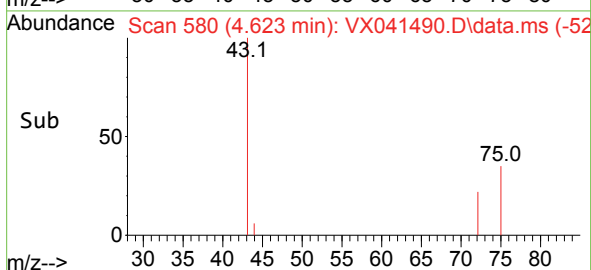
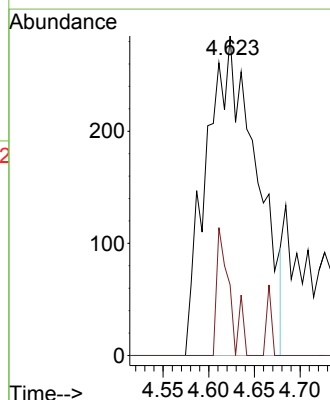
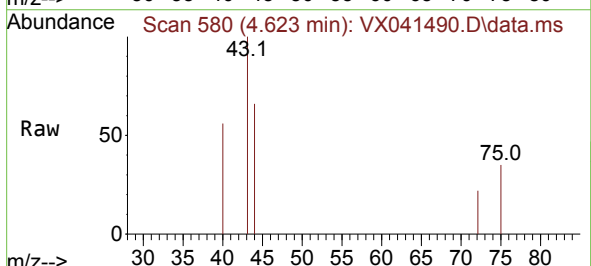
Acq: 13 May 2024 14:41

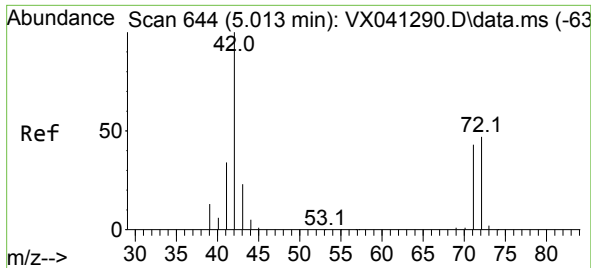
Tgt Ion: 43 Resp: 1082

Ion Ratio Lower Upper

43 100

72 22.1 19.4 29.2





#29

Tetrahydrofuran

Concen: 1.348 ug/l

RT: 5.038 min Scan# 64

Delta R.T. 0.025 min

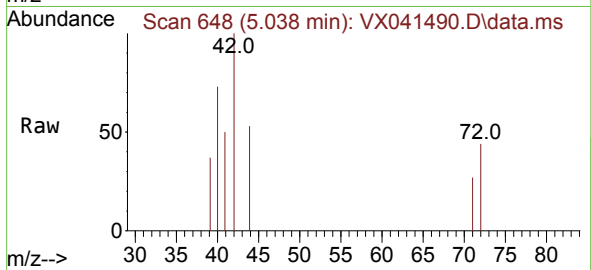
Lab File: VX041490.D

Acq: 13 May 2024 14:41

Instrument :

MSVOA\_X

ClientSampleId :



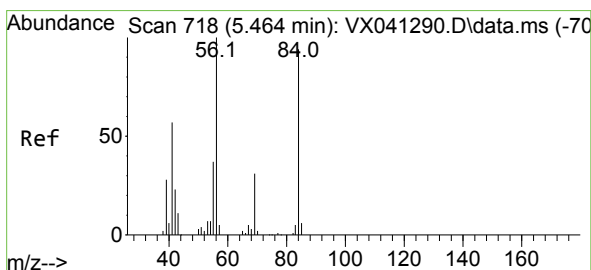
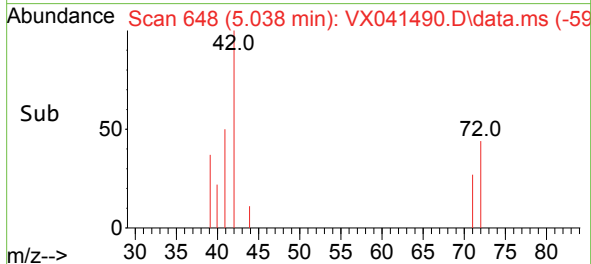
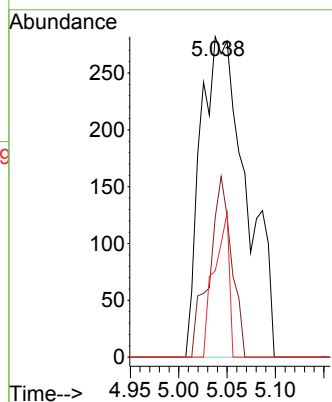
Tgt Ion: 42 Resp: 922

Ion Ratio Lower Upper

42 100

72 27.8 34.2 51.4#

71 14.9 32.2 48.2#



#31

Cyclohexane

Concen: 1.277 ug/l

RT: 5.538 min Scan# 730

Delta R.T. 0.073 min

Lab File: VX041490.D

Acq: 13 May 2024 14:41

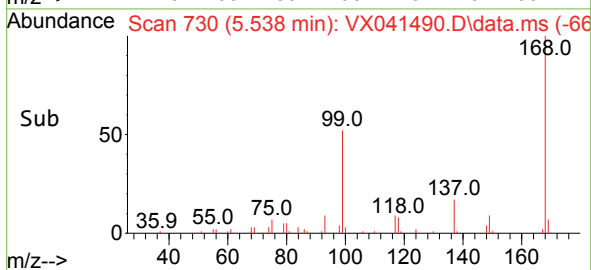
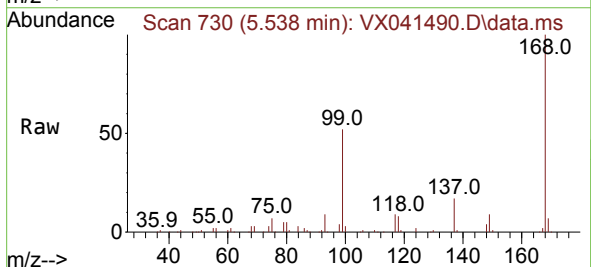
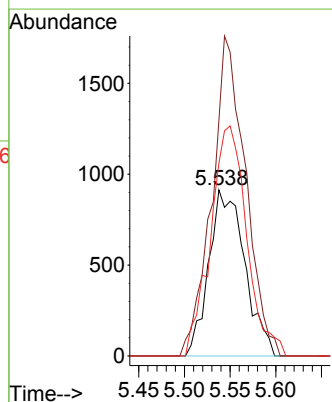
Tgt Ion: 56 Resp: 2489

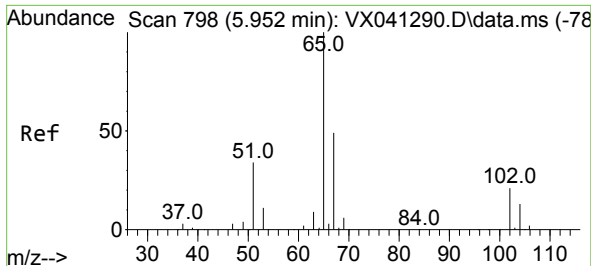
Ion Ratio Lower Upper

56 100

69 141.9 23.4 35.2#

84 116.1 65.9 98.9#





#33

1,2-Dichloroethane-d4

Concen: 51.919 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX041490.D

Acq: 13 May 2024 14:41

Instrument :

MSVOA\_X

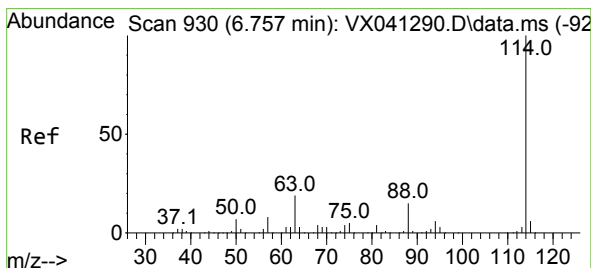
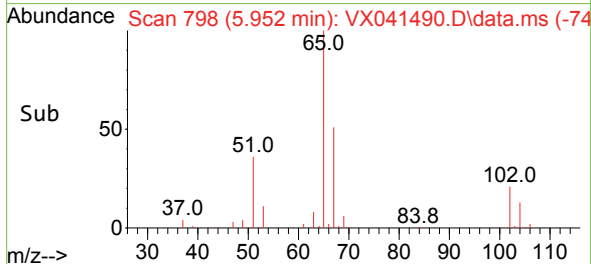
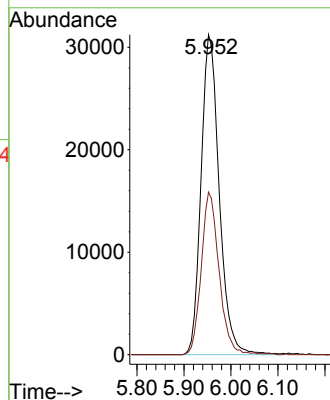
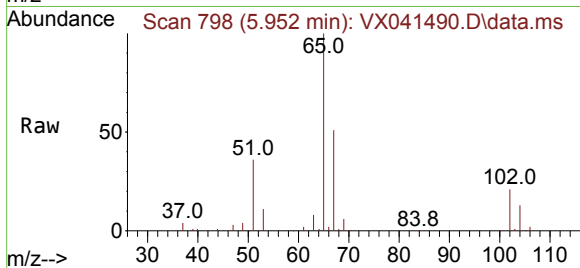
ClientSampleId :

Tgt Ion: 65 Resp: 83872

Ion Ratio Lower Upper

65 100

67 49.9 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: VX041490.D

Acq: 13 May 2024 14:41

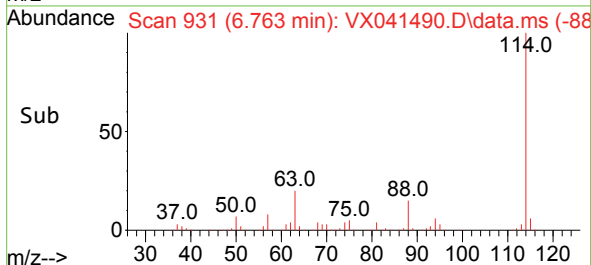
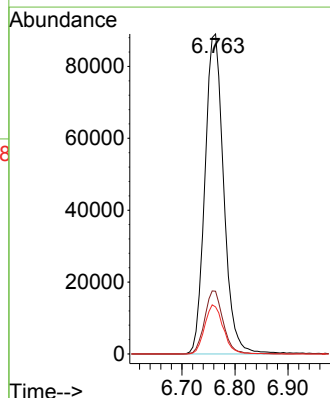
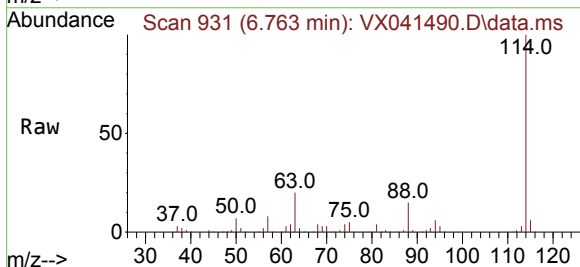
Tgt Ion: 114 Resp: 218804

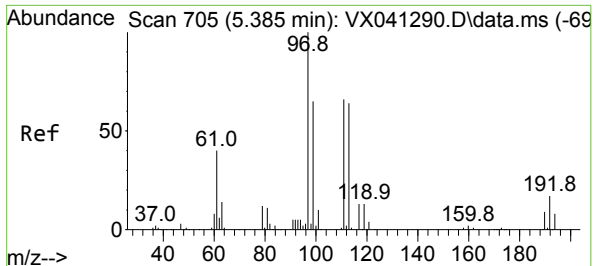
Ion Ratio Lower Upper

114 100

63 19.6 0.0 45.0

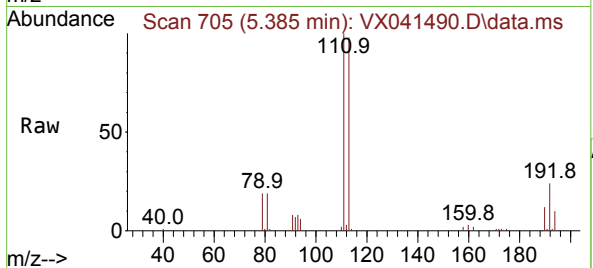
88 14.7 0.0 36.6



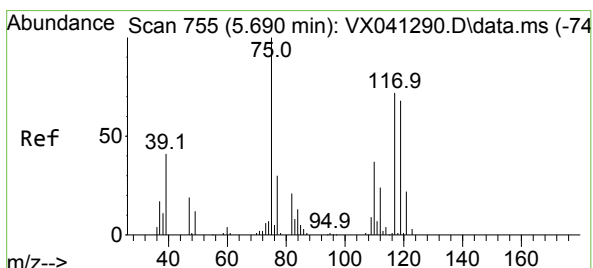
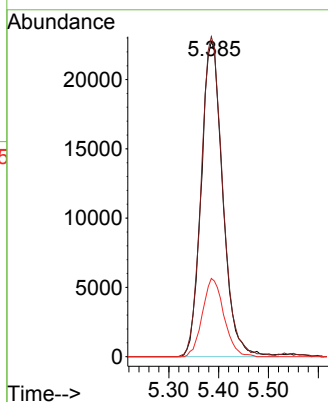
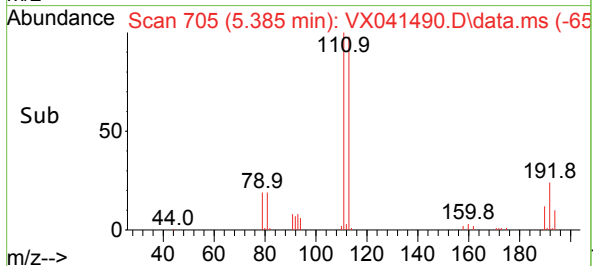


#35  
Dibromofluoromethane  
Concen: 46.028 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX041490.D  
Acq: 13 May 2024 14:41

Instrument :  
MSVOA\_X  
ClientSampleId :

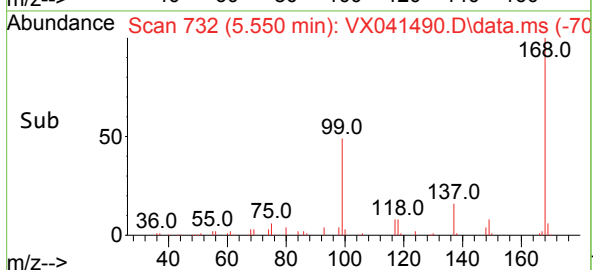
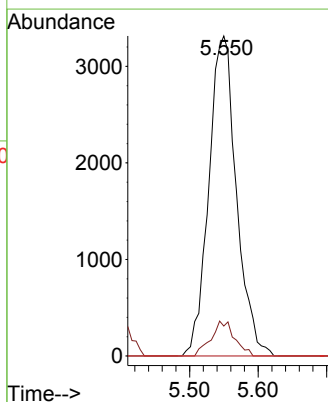
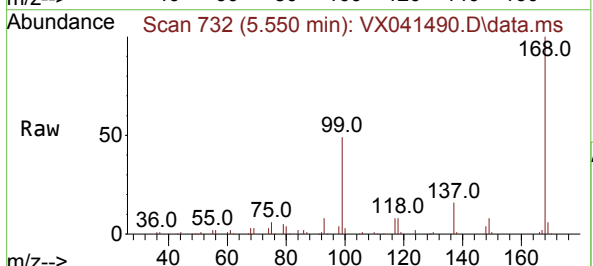


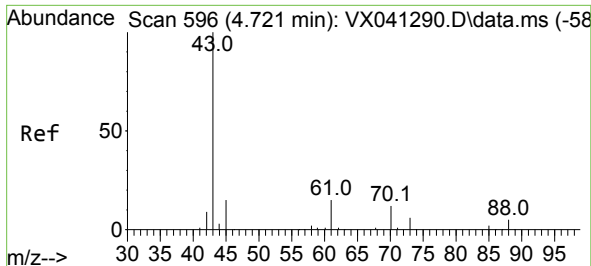
Tgt Ion:113 Resp: 68249  
Ion Ratio Lower Upper  
113 100  
111 101.6 82.9 124.3  
192 24.8 13.3 19.9#



#36  
1,1-Dichloropropene  
Concen: 5.245 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.140 min  
Lab File: VX041490.D  
Acq: 13 May 2024 14:41

Tgt Ion: 75 Resp: 9299  
Ion Ratio Lower Upper  
75 100  
110 9.3 17.0 50.9#  
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.326 ug/l

RT: 4.757 min Scan# 602

Delta R.T. 0.037 min

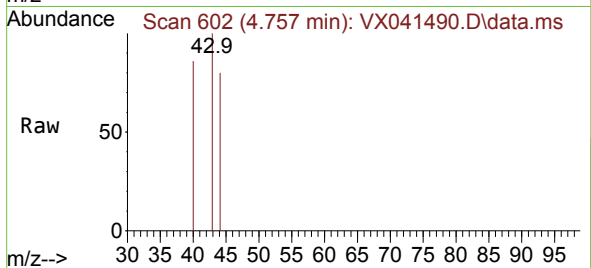
Lab File: VX041490.D

Acq: 13 May 2024 14:41

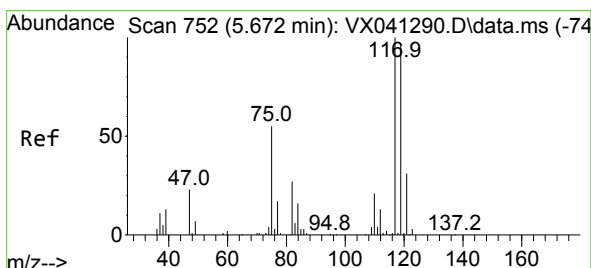
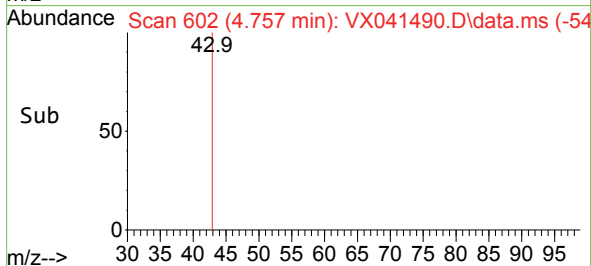
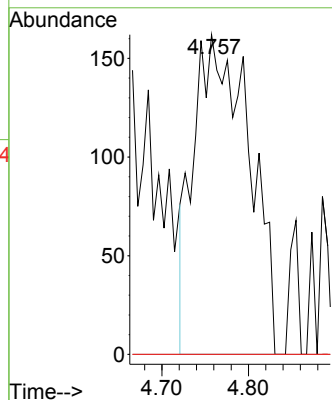
Instrument :

MSVOA\_X

ClientSampleId :



|           |     |       |       |
|-----------|-----|-------|-------|
| Tgt Ion:  | 43  | Resp: | 722   |
| Ion Ratio | 100 | Lower | Upper |
| 43        | 100 |       |       |
| 61        | 0.0 | 10.6  | 16.0# |
| 70        | 0.0 | 8.3   | 12.5# |



#38

Carbon Tetrachloride

Concen: 6.289 ug/l

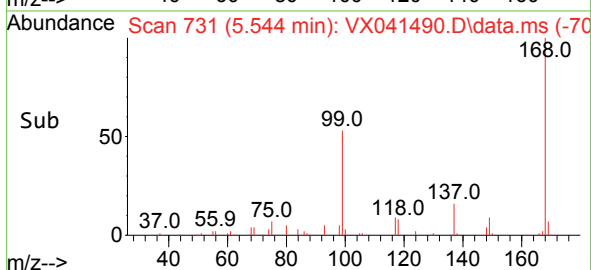
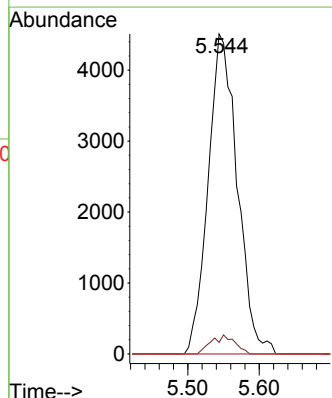
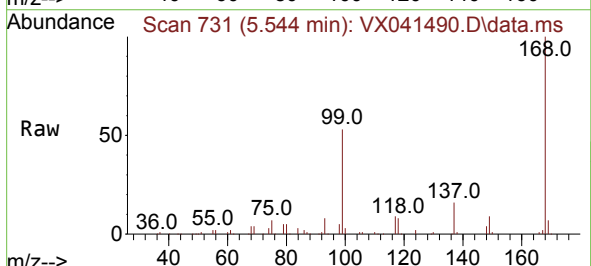
RT: 5.544 min Scan# 731

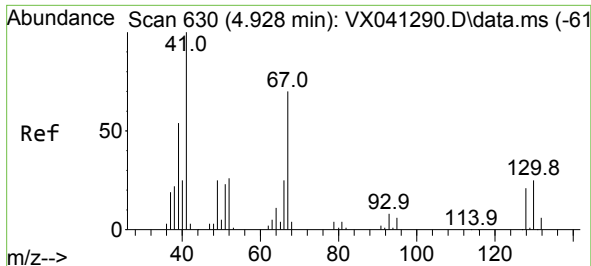
Delta R.T. -0.128 min

Lab File: VX041490.D

Acq: 13 May 2024 14:41

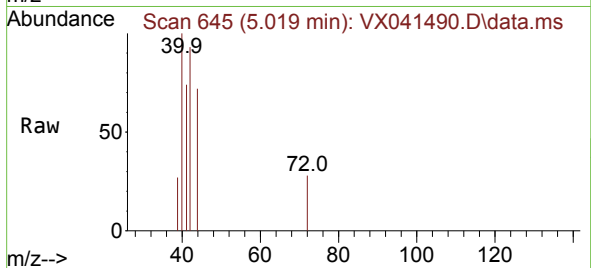
|           |     |       |        |
|-----------|-----|-------|--------|
| Tgt Ion:  | 117 | Resp: | 12773  |
| Ion Ratio | 100 | Lower | Upper  |
| 117       | 100 |       |        |
| 119       | 3.6 | 78.2  | 117.2# |
| 121       | 0.0 | 24.4  | 36.6#  |



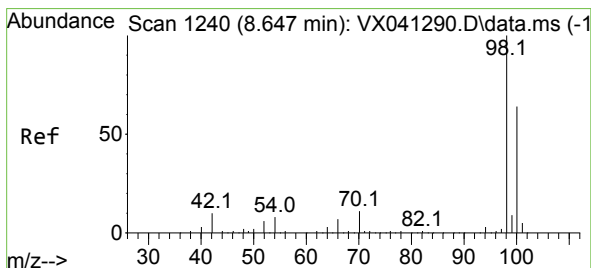
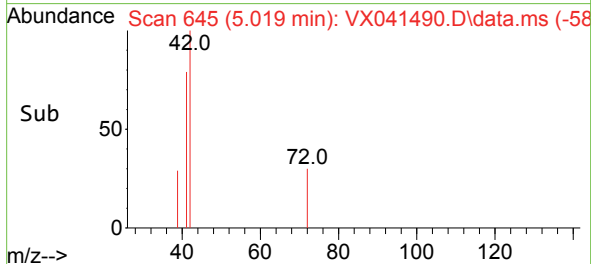
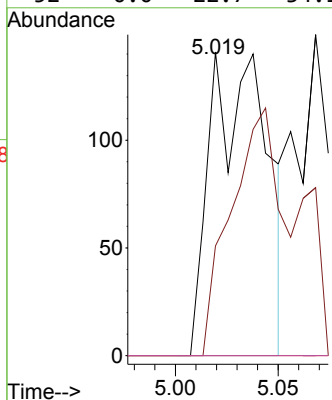


#41  
Methacrylonitrile  
Concen: 0.237 ug/l  
RT: 5.019 min Scan# 645  
Delta R.T. 0.092 min  
Lab File: VX041490.D  
Acq: 13 May 2024 14:41

Instrument :  
MSVOA\_X  
ClientSampleId :

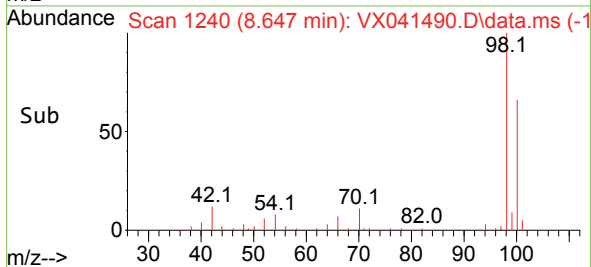
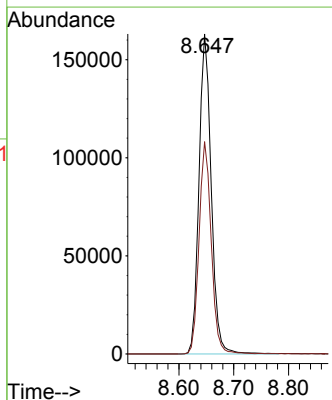
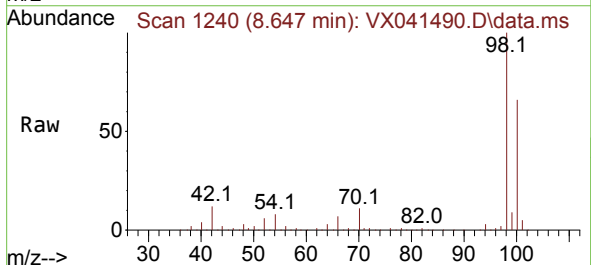


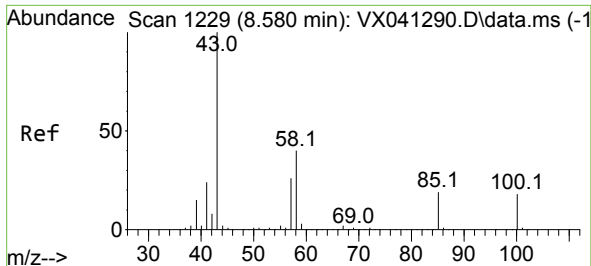
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 270   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 0.0   | 45.2  | 67.8# |
| 67       | 0.0   | 52.6  | 78.8# |
| 52       | 0.0   | 22.7  | 34.1# |



#50  
Toluene-d8  
Concen: 53.952 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.000 min  
Lab File: VX041490.D  
Acq: 13 May 2024 14:41

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 98    | Resp: | 253202 |
| Ion      | Ratio | Lower | Upper  |
| 98       | 100   |       |        |
| 100      | 66.0  | 53.1  | 79.7   |





#51

4-Methyl-2-Pentanone

Concen: 0.514 ug/l

RT: 8.647 min Scan# 11

Delta R.T. 0.067 min

Lab File: VX041490.D

Acq: 13 May 2024 14:41

Instrument :

MSVOA\_X

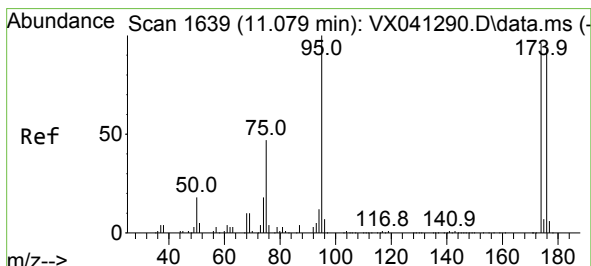
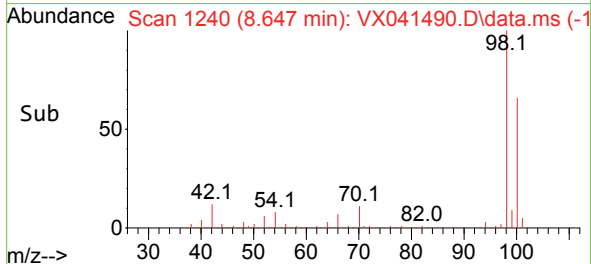
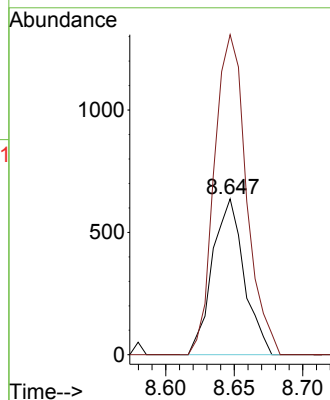
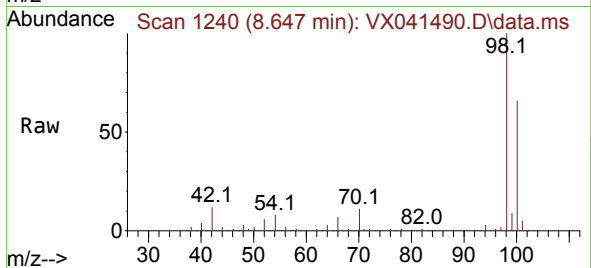
ClientSampleId :

Tgt Ion: 43 Resp: 1025

Ion Ratio Lower Upper

43 100

58 208.3 30.4 45.6#



#62

4-Bromofluorobenzene

Concen: 50.951 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX041490.D

Acq: 13 May 2024 14:41

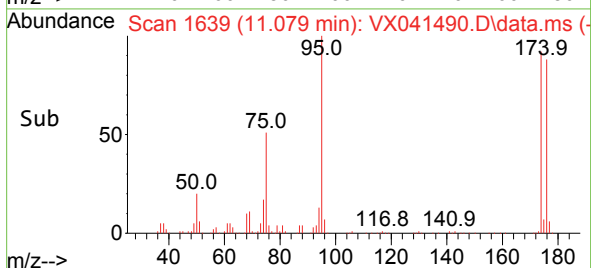
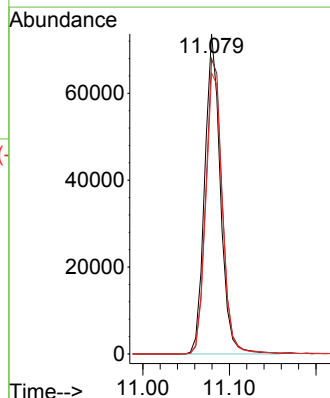
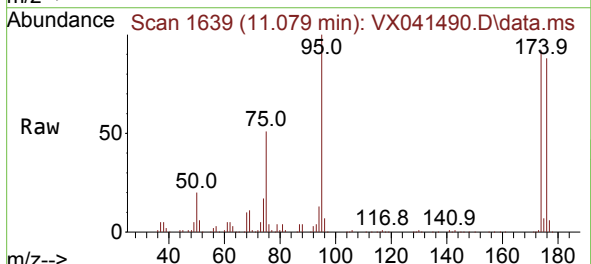
Tgt Ion: 95 Resp: 92564

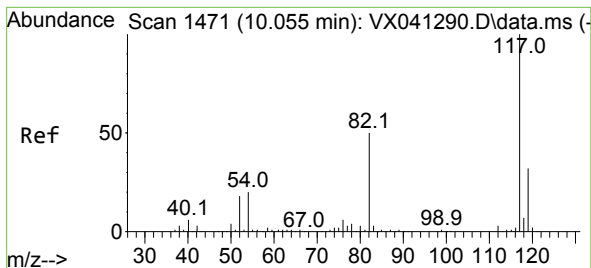
Ion Ratio Lower Upper

95 100

174 97.7 0.0 135.6

176 93.7 0.0 131.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

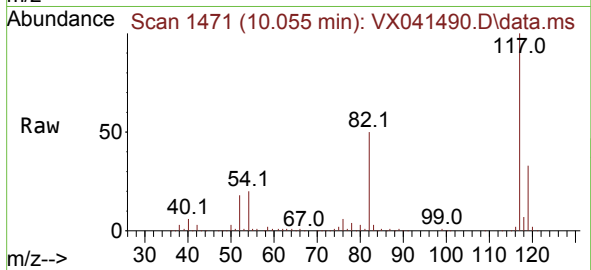
Lab File: VX041490.D

Acq: 13 May 2024 14:41

Instrument :

MSVOA\_X

ClientSampleId :



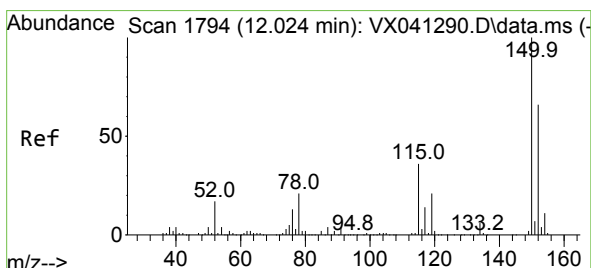
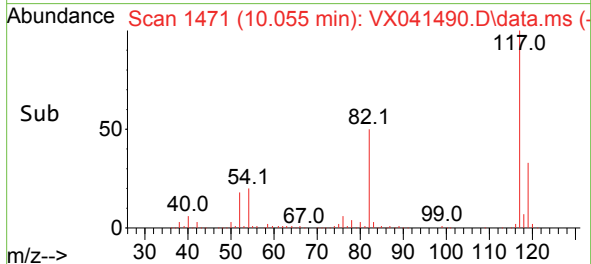
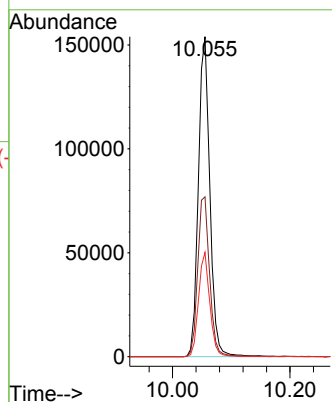
Tgt Ion:117 Resp: 209252

Ion Ratio Lower Upper

117 100

82 50.0 46.2 69.4

119 32.6 25.5 38.3



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1794

Delta R.T. 0.000 min

Lab File: VX041490.D

Acq: 13 May 2024 14:41

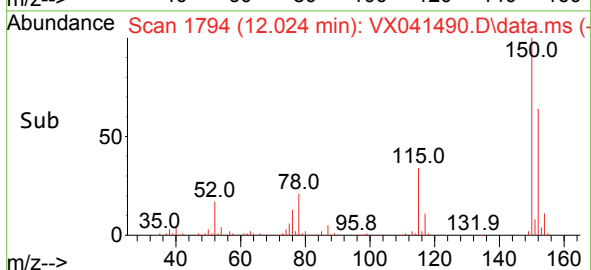
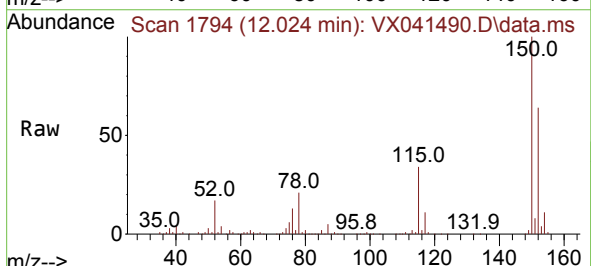
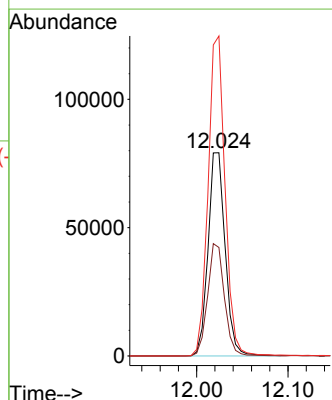
Tgt Ion:152 Resp: 102953

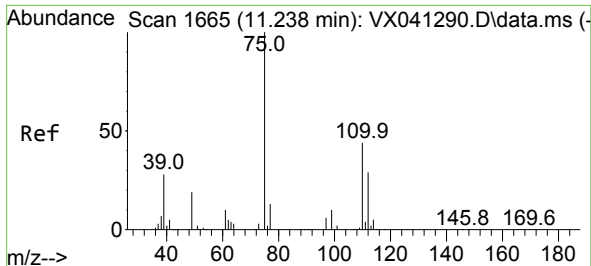
Ion Ratio Lower Upper

152 100

115 54.2 43.3 129.9

150 156.2 0.0 345.0

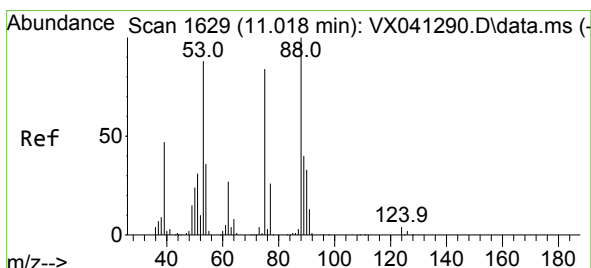
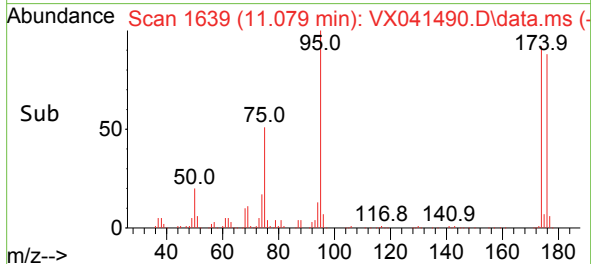
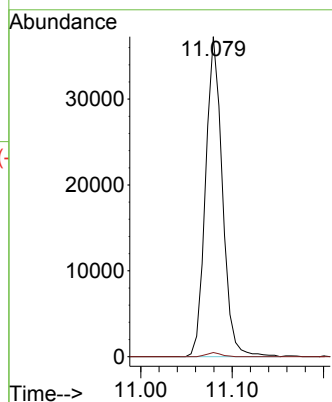
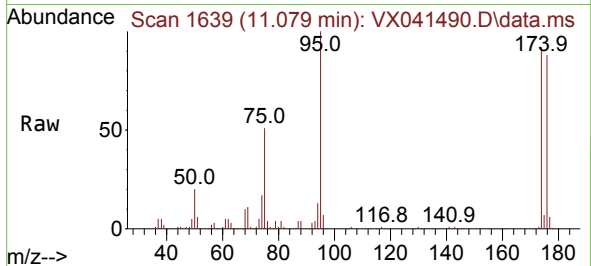




#76  
1,2,3-Trichloropropane  
Concen: 28.379 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX041490.D  
Acq: 13 May 2024 14:41

Instrument :  
MSVOA\_X  
ClientSampleId :

Tgt Ion: 75 Resp: 47614  
Ion Ratio Lower Upper  
75 100  
77 1.1 19.1 57.5#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 77.300 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX041490.D  
Acq: 13 May 2024 14:41

Tgt Ion: 75 Resp: 47614  
Ion Ratio Lower Upper  
75 100  
53 0.0 90.5 135.7#  
89 0.0 36.9 55.3#

