

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070523\  
 Data File : VX036414.D  
 Acq On : 05 Jul 2023 19:17  
 Operator : JC/MD  
 Sample : PB153931TB  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 PB153931TB

Quant Time: Jul 06 04:56:45 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 23 15:03:28 2023  
 Response via : Initial Calibration

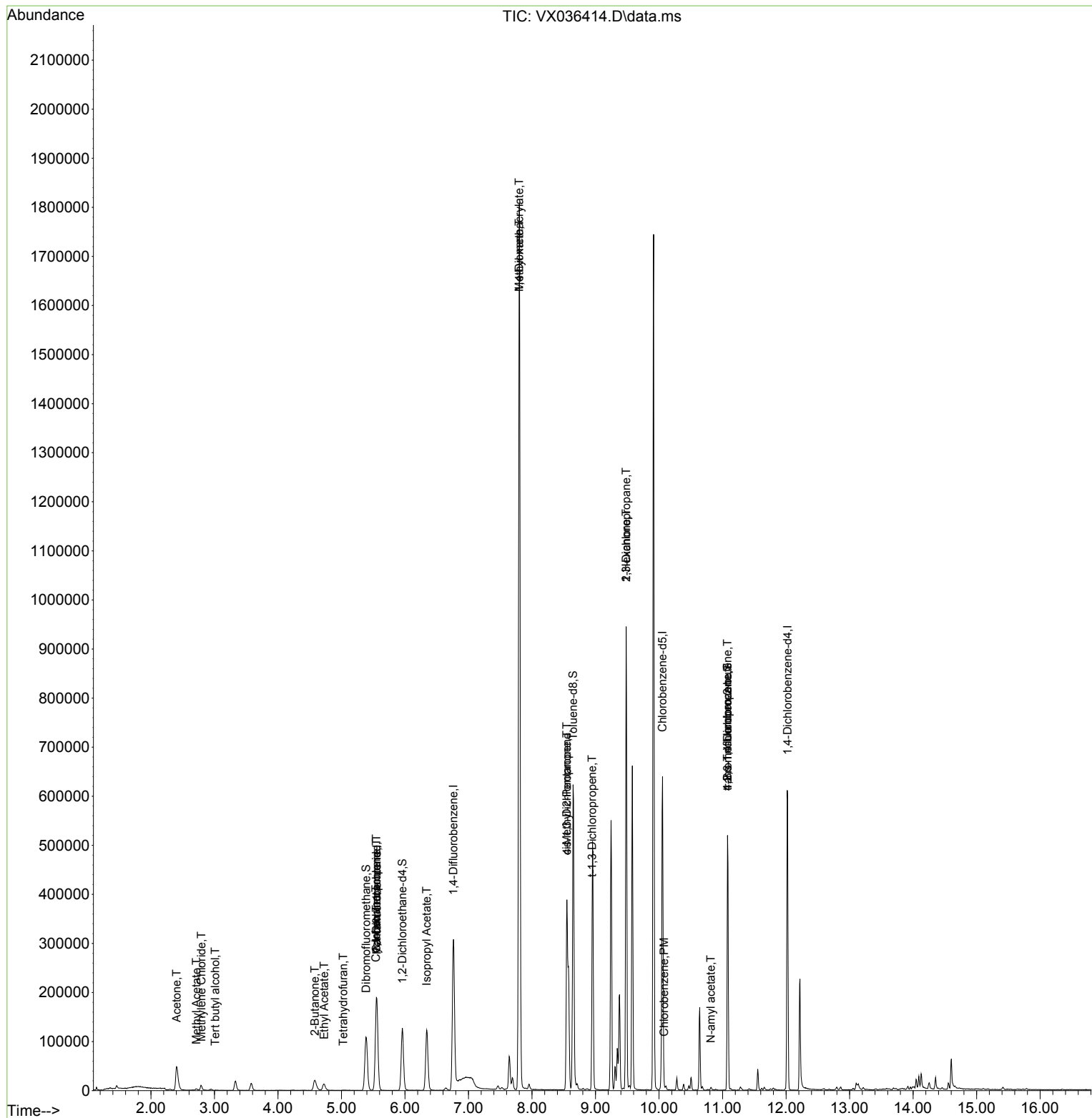
| Compound                      | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-------------------------------|----------------|------|------------|----------|--------|----------|
| -----                         |                |      |            |          |        |          |
| Internal Standards            |                |      |            |          |        |          |
| 1) Pentafluorobenzene         | 5.556          | 168  | 181398     | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.763          | 114  | 305850     | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 10.055         | 117  | 280106     | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 12.024         | 152  | 128432     | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |                |      |            |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.958          | 65   | 118332     | 45.509   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 78 - 117 |      | Recovery = | 91.020%  |        |          |
| 35) Dibromofluoromethane      | 5.385          | 113  | 98017      | 48.603   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 75 - 124 |      | Recovery = | 97.200%  |        |          |
| 50) Toluene-d8                | 8.647          | 98   | 374284     | 49.690   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 92 - 112 |      | Recovery = | 99.380%  |        |          |
| 62) 4-Bromofluorobenzene      | 11.079         | 95   | 133508     | 50.321   | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 83 - 123 |      | Recovery = | 100.640% |        |          |
| Target Compounds              |                |      |            |          |        |          |
|                               |                |      |            |          | Qvalue |          |
| 11) Tert butyl alcohol        | 3.014          | 59   | 264        | 0.558    | ug/l # | 23       |
| 16) Acetone                   | 2.404          | 43   | 85718      | 77.126   | ug/l   | 94       |
| 18) Methyl Acetate            | 2.715          | 43   | 3820       | 0.836    | ug/l   | 95       |
| 20) Methylene Chloride        | 2.794          | 84   | 4951       | 2.069    | ug/l # | 92       |
| 25) 2-Butanone                | 4.581          | 43   | 40705      | 25.491   | ug/l   | 99       |
| 29) Tetrahydrofuran           | 5.026          | 42   | 427        | 0.420    | ug/l # | 57       |
| 31) Cyclohexane               | 5.544          | 56   | 4102       | 1.231    | ug/l # | 34       |
| 36) 1,1-Dichloropropene       | 5.550          | 75   | 13996      | 4.656    | ug/l # | 51       |
| 37) Ethyl Acetate             | 4.727          | 43   | 24224      | 7.906    | ug/l   | 98       |
| 38) Carbon Tetrachloride      | 5.550          | 117  | 18396      | 6.700    | ug/l # | 14       |
| 43) Isopropyl Acetate         | 6.342          | 43   | 169112     | 34.599   | ug/l   | 96       |
| 48) Methyl methacrylate       | 7.799          | 41   | 153288     | 62.899   | ug/l # | 48       |
| 49) 1,4-Dioxane               | 7.799          | 88   | 222        | 4.109    | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 8.549          | 43   | 136273     | 43.275   | ug/l # | 37       |
| 53) t-1,3-Dichloropropene     | 8.946          | 75   | 997        | 0.339    | ug/l # | 43       |
| 54) cis-1,3-Dichloropropene   | 8.549          | 75   | 59970      | 18.039   | ug/l # | 57       |
| 57) 1,3-Dichloropropane       | 9.482          | 76   | 7711       | 2.034    | ug/l # | 42       |
| 59) 2-Hexanone                | 9.482          | 43   | 109688     | 47.699   | ug/l # | 53       |
| 65) Chlorobenzene             | 10.080         | 112  | 1224       | 0.208    | ug/l # | 88       |
| 74) N-amyl acetate            | 10.817         | 43   | 1393       | 0.364    | ug/l # | 45       |
| 76) 1,2,3-Trichloropropane    | 11.079         | 75   | 69937      | 25.529   | ug/l # | 39       |
| 81) trans-1,4-Dichloro-2-b... | 11.079         | 75   | 69937      | 83.219   | ug/l # | 5        |
| -----                         |                |      |            |          |        |          |

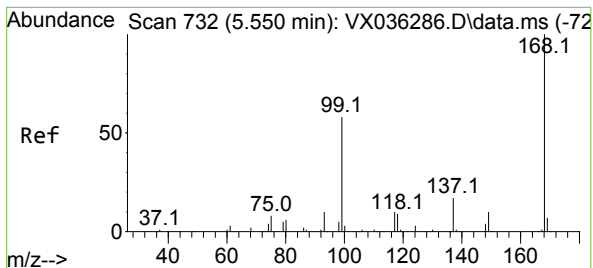
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX070523\  
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MSVOA\_X  
ClientSampleId :  
PB153931TB

Quant Time: Jul 06 04:56:45 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\82X062323W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 23 15:03:28 2023  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.556 min Scan# 71

Delta R.T. 0.007 min

Lab File: VX036414.D

Acq: 05 Jul 2023 19:17

Instrument :

MSVOA\_X

ClientSampleId :

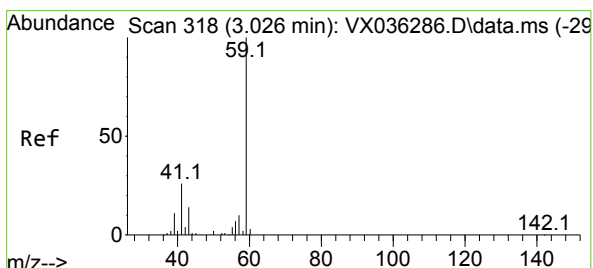
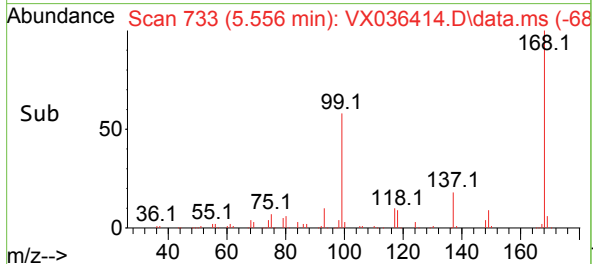
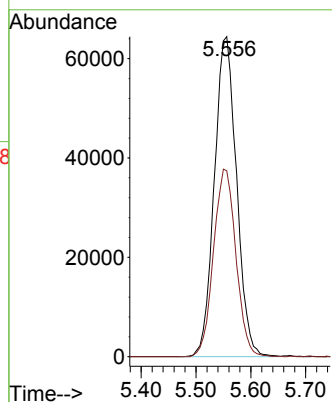
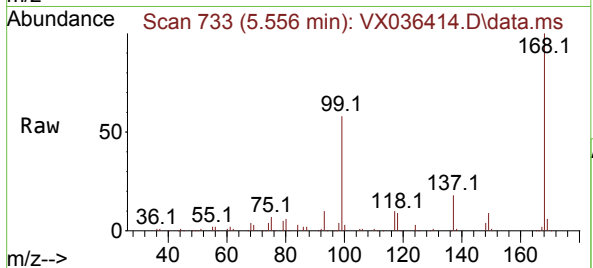
PB153931TB

Tgt Ion:168 Resp: 181398

Ion Ratio Lower Upper

168 100

99 58.1 56.6 85.0



#11

Tert butyl alcohol

Concen: 0.558 ug/l

RT: 3.014 min Scan# 316

Delta R.T. 0.001 min

Lab File: VX036414.D

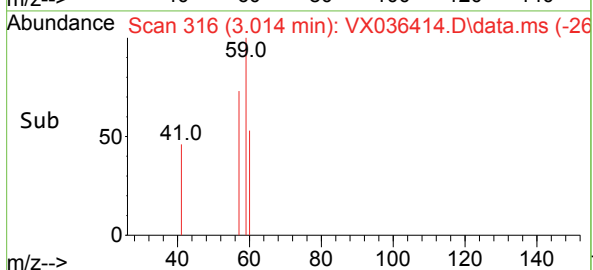
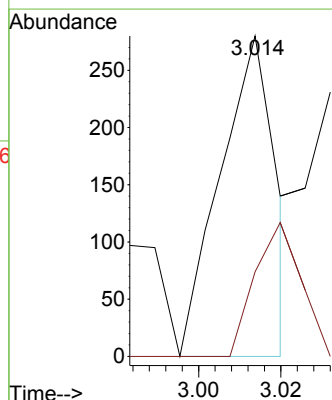
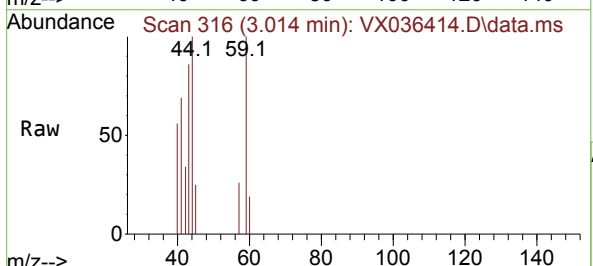
Acq: 05 Jul 2023 19:17

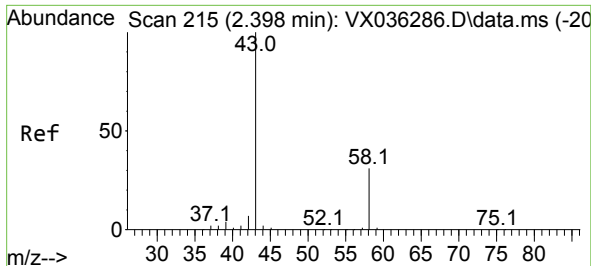
Tgt Ion: 59 Resp: 264

Ion Ratio Lower Upper

59 100

57 34.5 6.0 9.0#

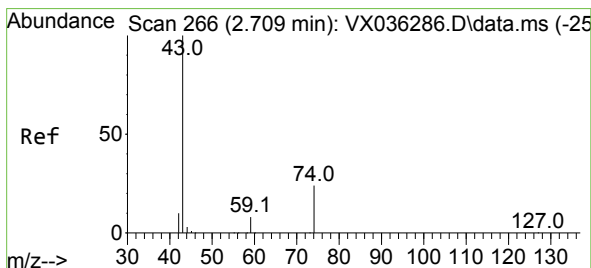
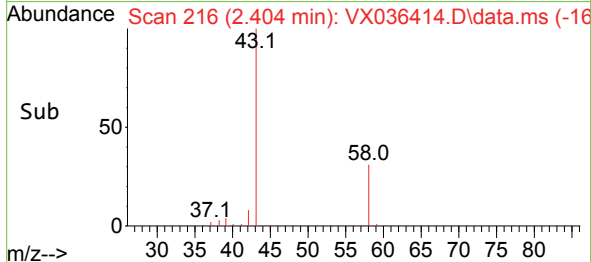
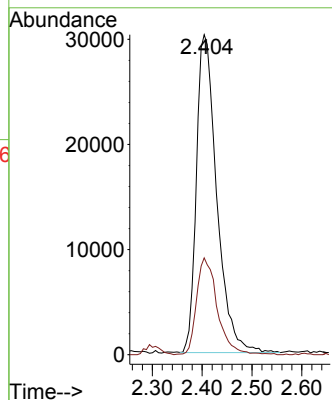
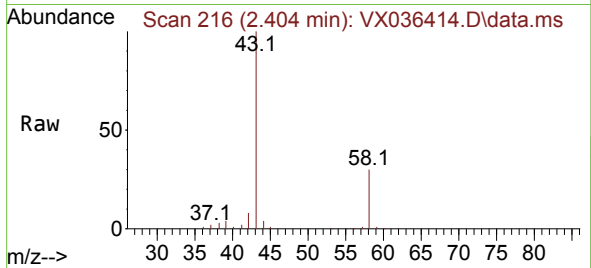




#16  
Acetone  
Concen: 77.126 ug/l  
RT: 2.404 min Scan# 215  
Delta R.T. 0.000 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

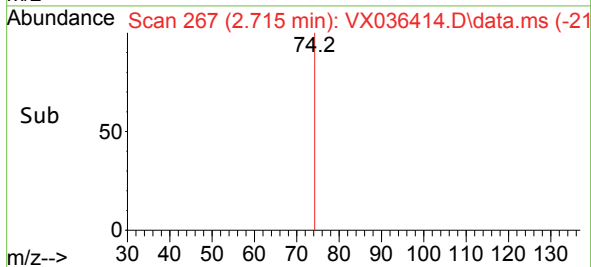
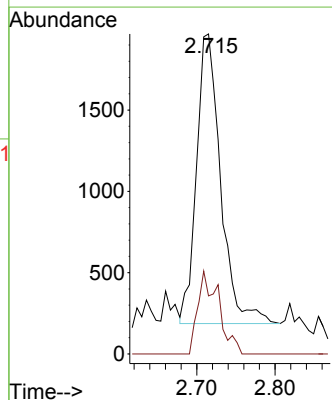
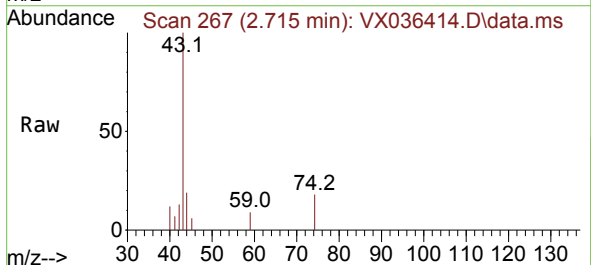
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153931TB

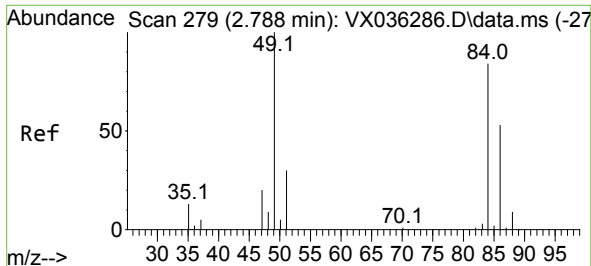
Tgt Ion: 43 Resp: 85718  
Ion Ratio Lower Upper  
43 100  
58 30.5 21.9 32.9



#18  
Methyl Acetate  
Concen: 0.836 ug/l  
RT: 2.715 min Scan# 267  
Delta R.T. 0.006 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

Tgt Ion: 43 Resp: 3820  
Ion Ratio Lower Upper  
43 100  
74 24.9 17.8 26.8

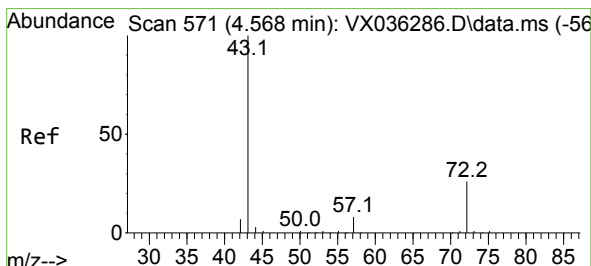
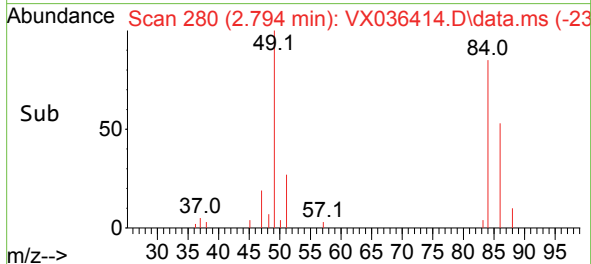
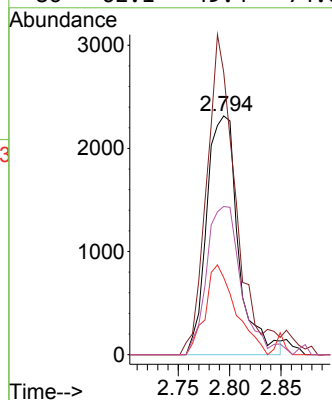
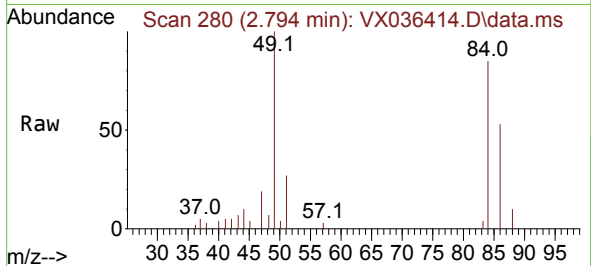




#20  
Methylene Chloride  
Concen: 2.069 ug/l  
RT: 2.794 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

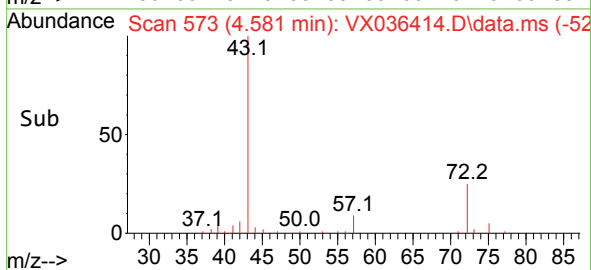
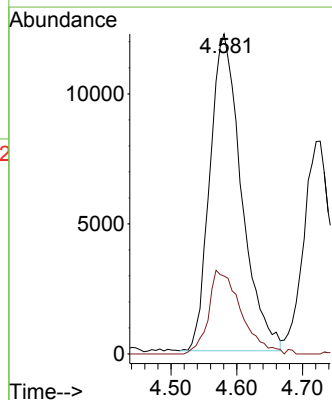
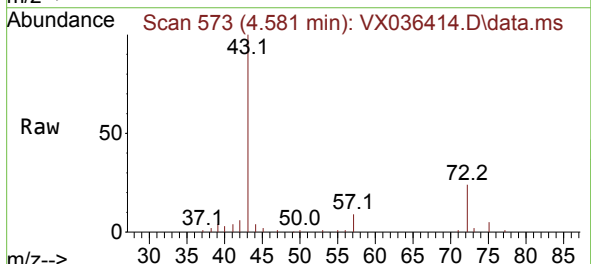
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153931TB

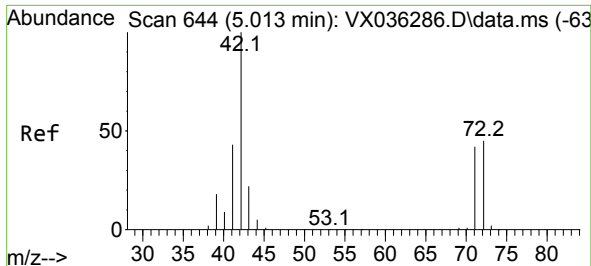
|             |                   |
|-------------|-------------------|
| Tgt Ion: 84 | Resp: 4951        |
| Ion Ratio   | Lower Upper       |
| 84          | 100               |
| 49          | 118.2 103.6 155.4 |
| 51          | 32.3 33.8 50.6#   |
| 86          | 62.1 49.4 74.0    |



#25  
2-Butanone  
Concen: 25.491 ug/l  
RT: 4.581 min Scan# 573  
Delta R.T. 0.013 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

|             |                |
|-------------|----------------|
| Tgt Ion: 43 | Resp: 40705    |
| Ion Ratio   | Lower Upper    |
| 43          | 100            |
| 72          | 24.6 19.4 29.2 |





#29

Tetrahydrofuran

Concen: 0.420 ug/l

RT: 5.026 min Scan# 644

Delta R.T. 0.007 min

Lab File: VX036414.D

Acq: 05 Jul 2023 19:17

Instrument :

MSVOA\_X

ClientSampleId :

PB153931TB

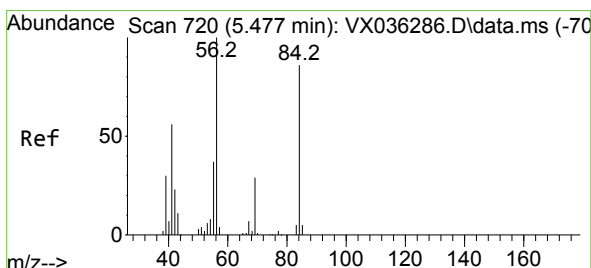
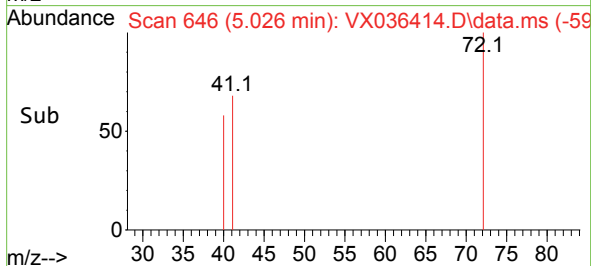
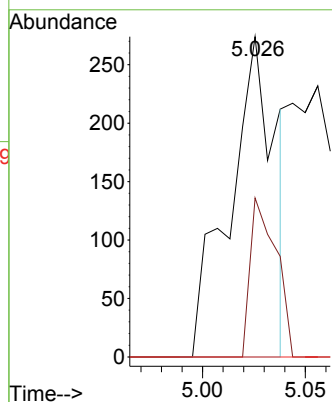
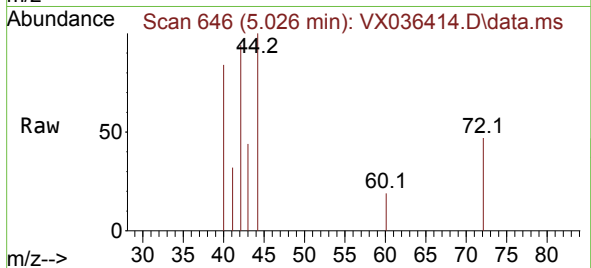
Tgt Ion: 42 Resp: 427

Ion Ratio Lower Upper

42 100

72 28.1 34.2 51.4#

71 0.0 32.2 48.2#



#31

Cyclohexane

Concen: 1.231 ug/l

RT: 5.544 min Scan# 731

Delta R.T. 0.074 min

Lab File: VX036414.D

Acq: 05 Jul 2023 19:17

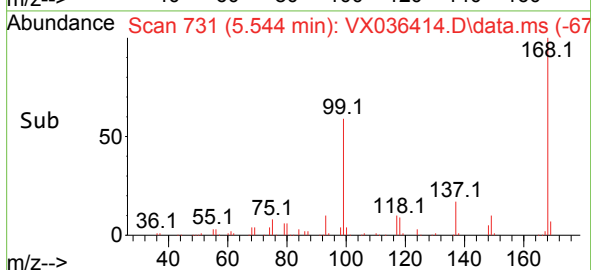
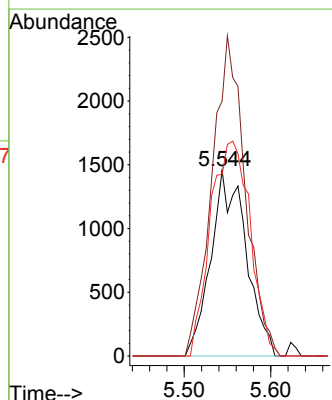
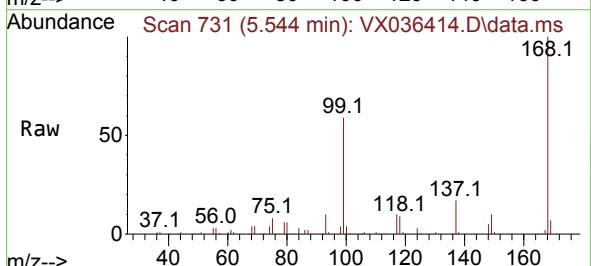
Tgt Ion: 56 Resp: 4102

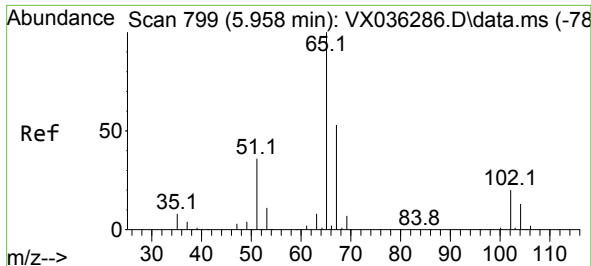
Ion Ratio Lower Upper

56 100

69 137.4 23.4 35.2#

84 97.9 65.9 98.9





#33

1,2-Dichloroethane-d4

Concen: 45.509 ug/l

RT: 5.958 min Scan# 799

Delta R.T. 0.000 min

Lab File: VX036414.D

Acq: 05 Jul 2023 19:17

Instrument :

MSVOA\_X

ClientSampleId :

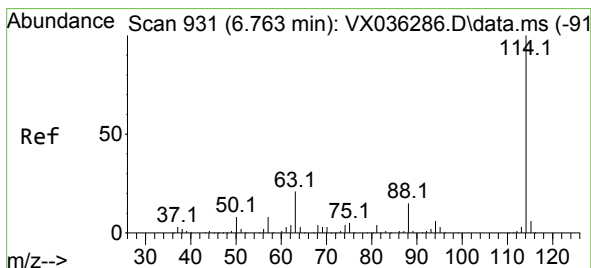
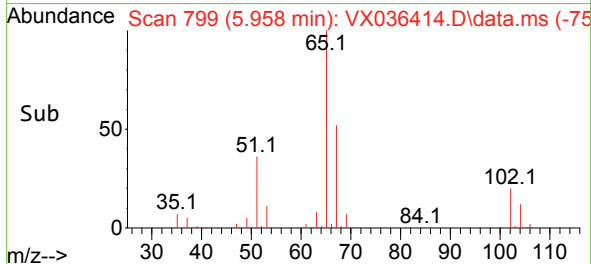
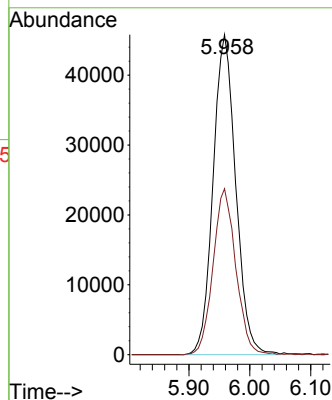
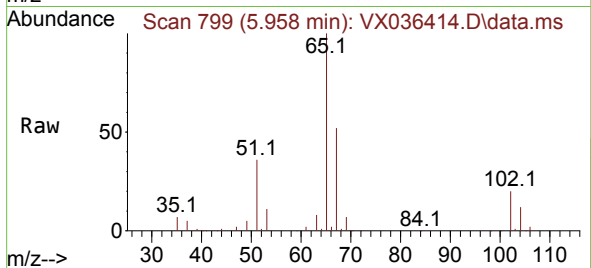
PB153931TB

Tgt Ion: 65 Resp: 118332

Ion Ratio Lower Upper

65 100

67 52.2 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: VX036414.D

Acq: 05 Jul 2023 19:17

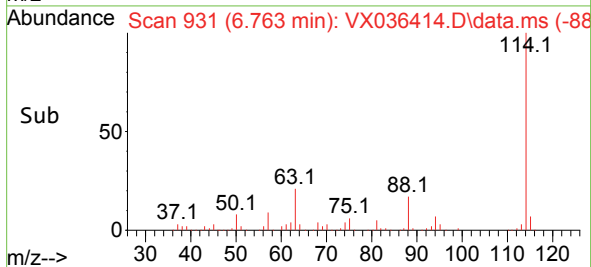
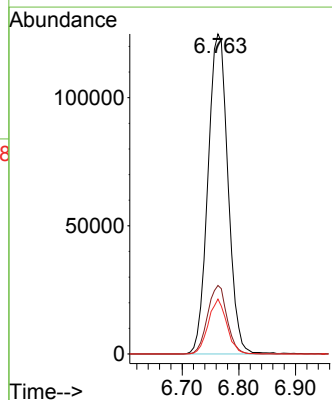
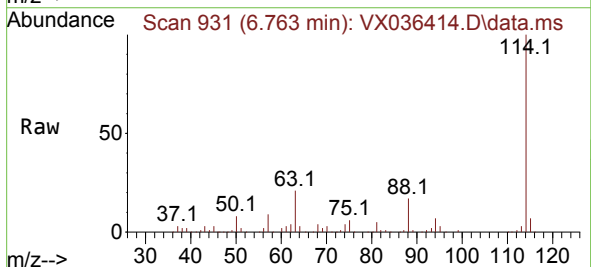
Tgt Ion: 114 Resp: 305850

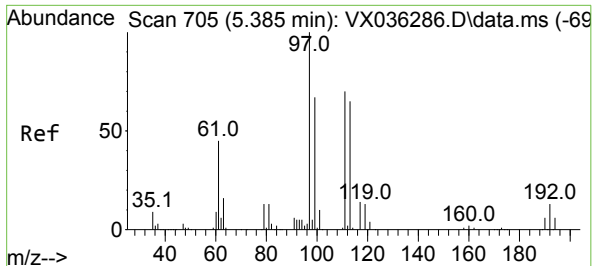
Ion Ratio Lower Upper

114 100

63 21.4 0.0 45.0

88 17.1 0.0 36.6

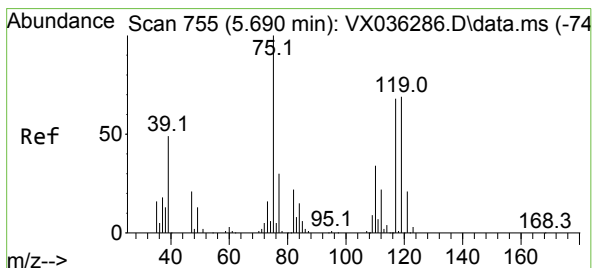
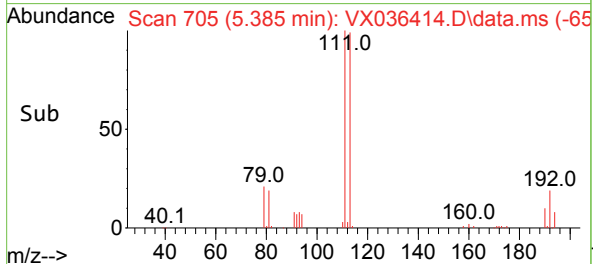
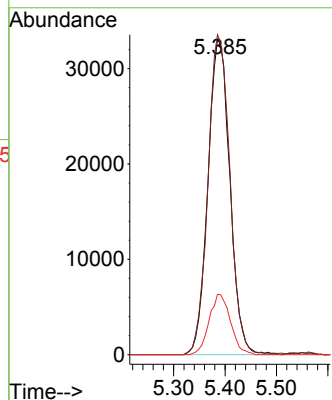
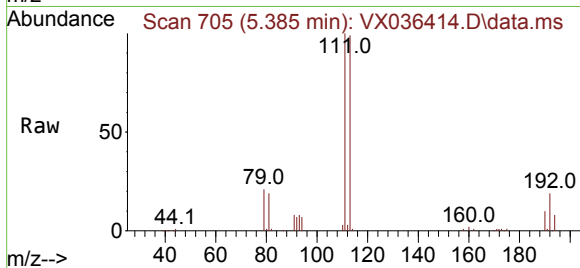




#35  
Dibromofluoromethane  
Concen: 48.603 ug/l  
RT: 5.385 min Scan# 705  
Delta R.T. 0.000 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

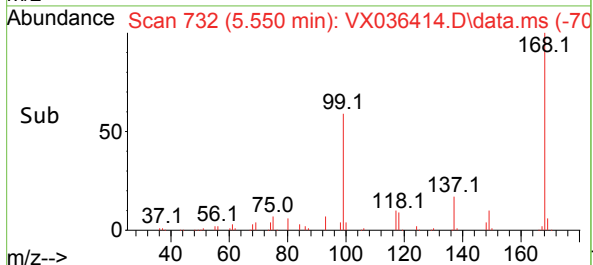
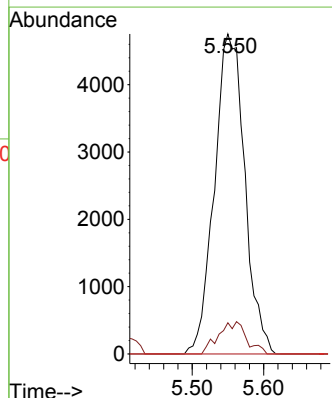
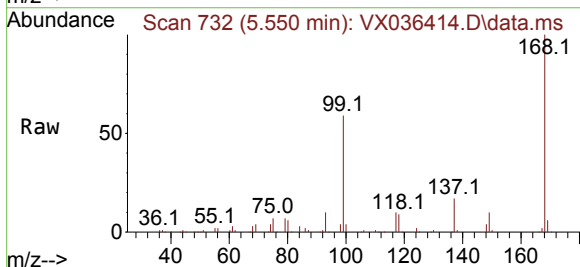
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153931TB

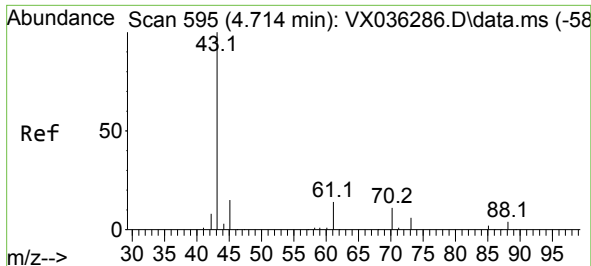
Tgt Ion:113 Resp: 98017  
Ion Ratio Lower Upper  
113 100  
111 101.3 82.9 124.3  
192 18.6 13.3 19.9



#36  
1,1-Dichloropropene  
Concen: 4.656 ug/l  
RT: 5.550 min Scan# 732  
Delta R.T. -0.146 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

Tgt Ion: 75 Resp: 13996  
Ion Ratio Lower Upper  
75 100  
110 9.3 17.0 50.9#  
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 7.906 ug/l

RT: 4.727 min Scan# 597

Delta R.T. 0.013 min

Lab File: VX036414.D

Acq: 05 Jul 2023 19:17

Instrument :

MSVOA\_X

ClientSampleId :

PB153931TB

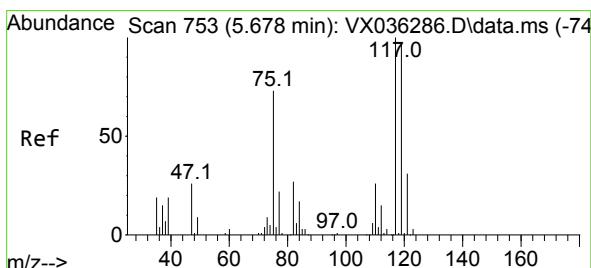
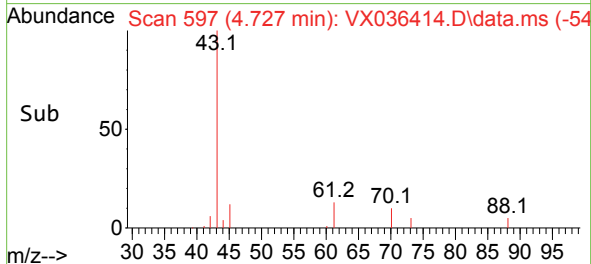
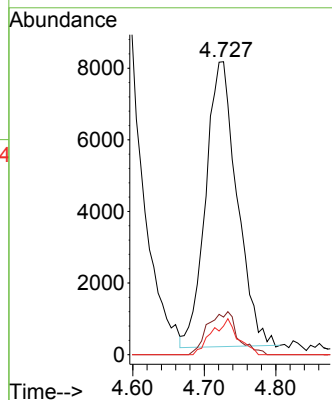
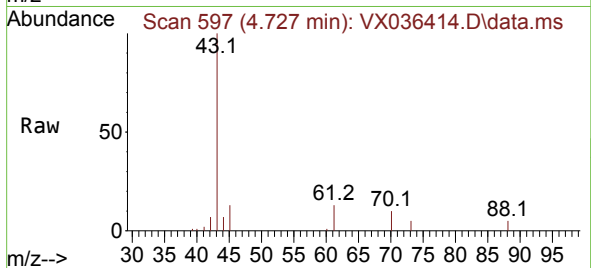
Tgt Ion: 43 Resp: 24224

Ion Ratio Lower Upper

43 100

61 14.5 10.6 16.0

70 10.4 8.3 12.5



#38

Carbon Tetrachloride

Concen: 6.700 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.128 min

Lab File: VX036414.D

Acq: 05 Jul 2023 19:17

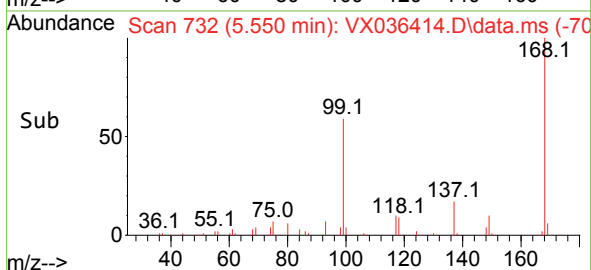
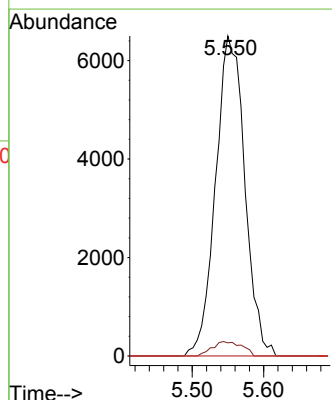
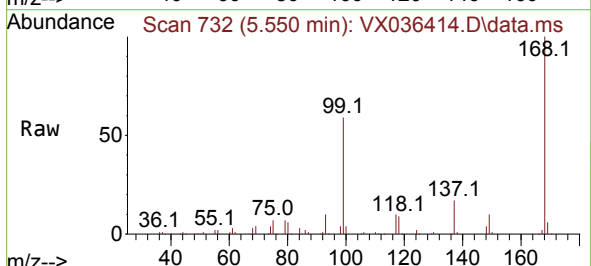
Tgt Ion: 117 Resp: 18396

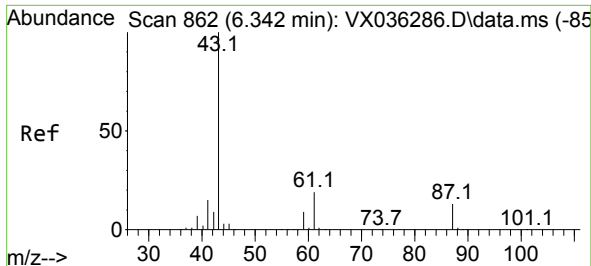
Ion Ratio Lower Upper

117 100

119 4.1 78.2 117.2#

121 0.0 24.4 36.6#

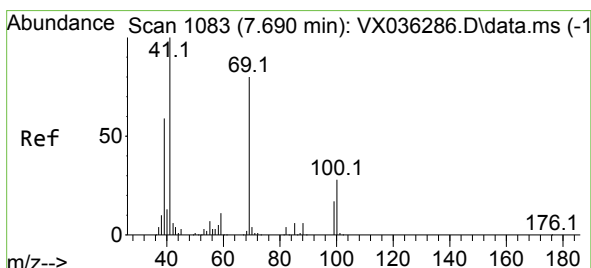
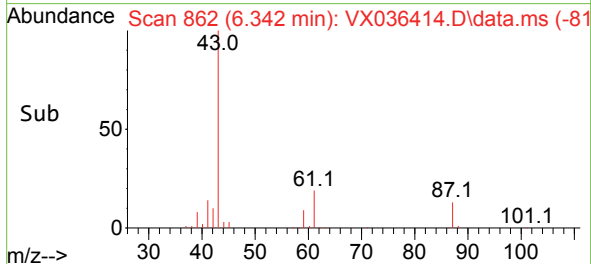
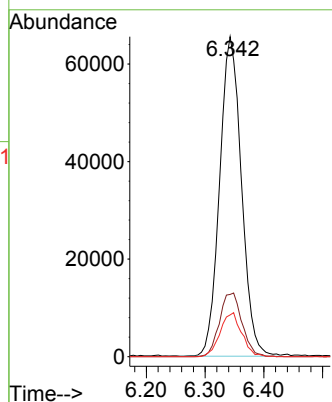
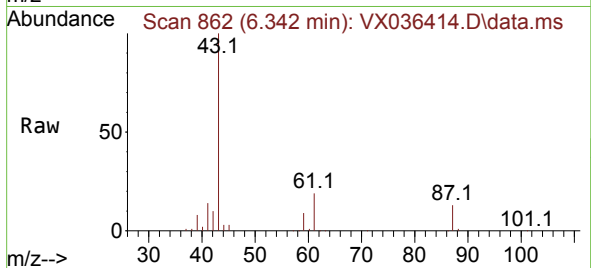




#43  
Isopropyl Acetate  
Concen: 34.599 ug/l  
RT: 6.342 min Scan# 80  
Delta R.T. 0.000 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

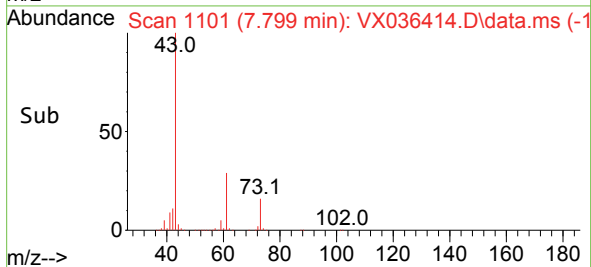
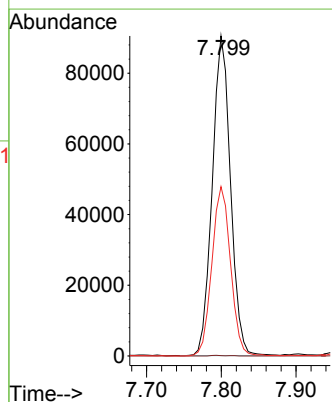
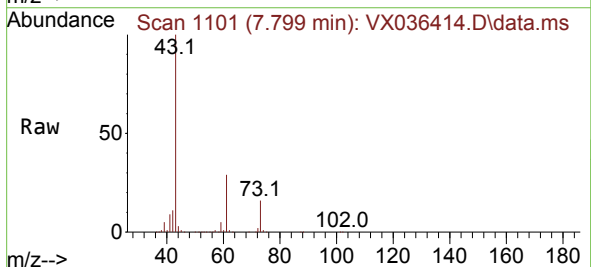
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153931TB

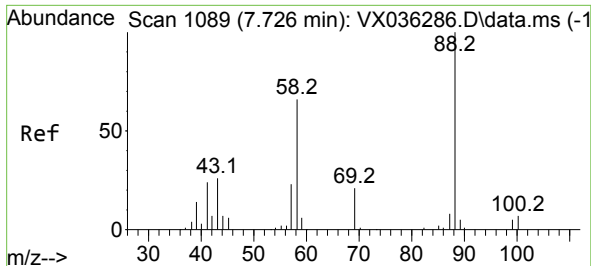
Tgt Ion: 43 Resp: 169112  
Ion Ratio Lower Upper  
43 100  
61 20.6 15.2 22.8  
87 13.6 9.8 14.6



#48  
Methyl methacrylate  
Concen: 62.899 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.110 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

Tgt Ion: 41 Resp: 153288  
Ion Ratio Lower Upper  
41 100  
69 0.2 59.2 88.8#  
39 54.3 47.7 71.5

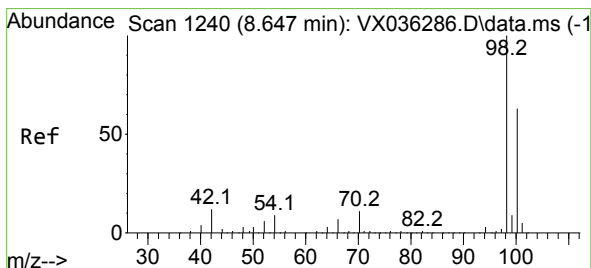
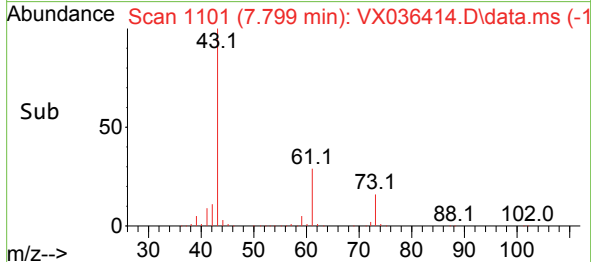
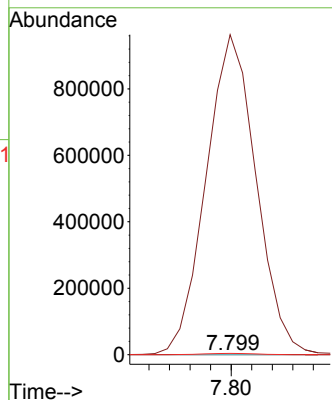
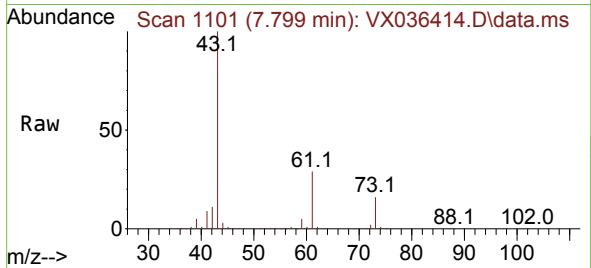




#49  
1,4-Dioxane  
Concen: 4.109 ug/l  
RT: 7.799 min Scan# 1101  
Delta R.T. 0.067 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

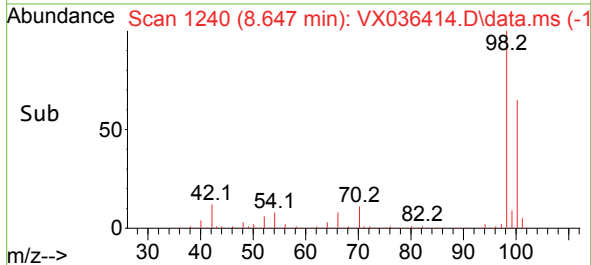
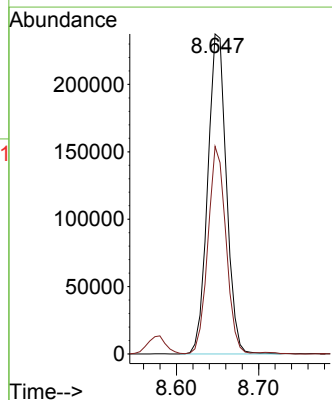
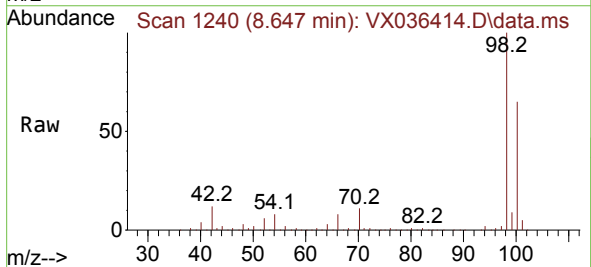
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153931TB

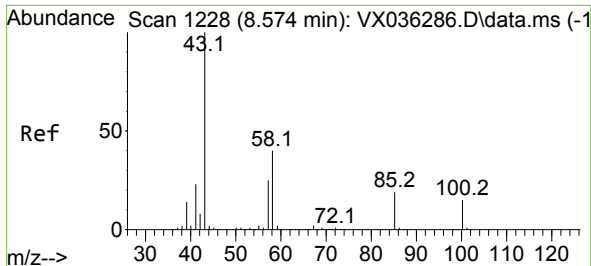
Tgt Ion: 88 Resp: 222  
Ion Ratio Lower Upper  
88 100  
43 738441.4 0.0 0.0#  
58 3032.0 60.1 90.1#



#50  
Toluene-d8  
Concen: 49.690 ug/l  
RT: 8.647 min Scan# 1240  
Delta R.T. 0.001 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

Tgt Ion: 98 Resp: 374284  
Ion Ratio Lower Upper  
98 100  
100 62.6 53.1 79.7

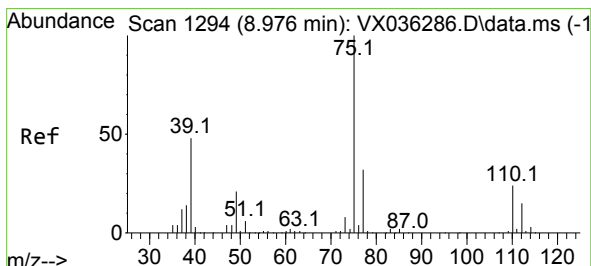
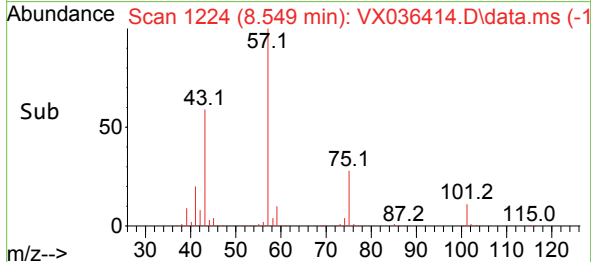
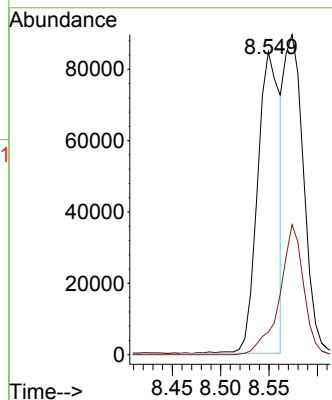
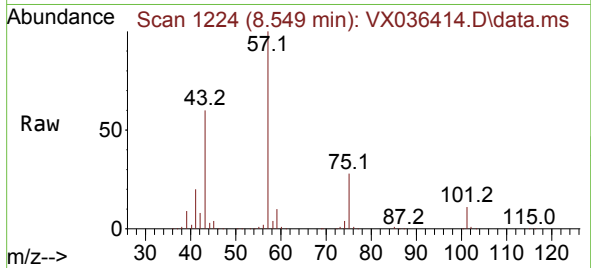




#51  
4-Methyl-2-Pentanone  
Concen: 43.275 ug/l  
RT: 8.549 min Scan# 11  
Delta R.T. -0.024 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

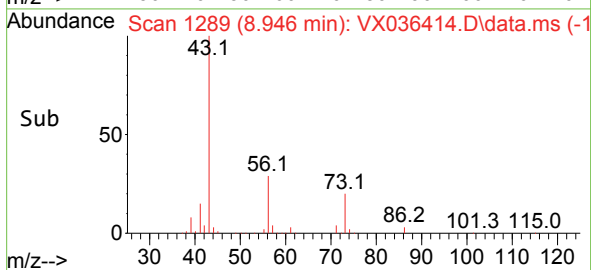
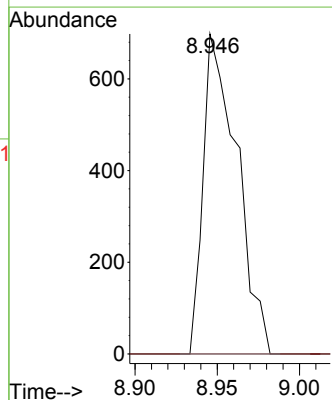
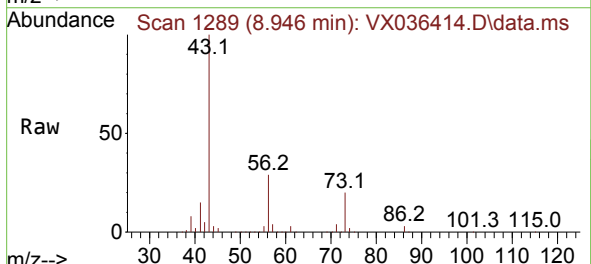
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153931TB

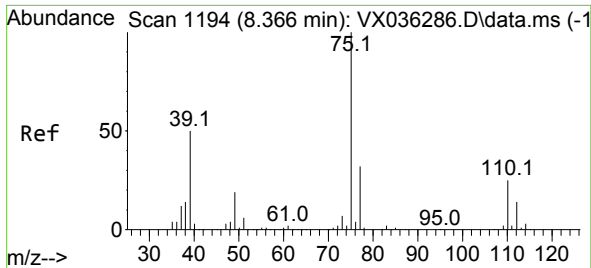
Tgt Ion: 43 Resp: 136273  
Ion Ratio Lower Upper  
43 100  
58 0.0 30.4 45.6#



#53  
t-1,3-Dichloropropene  
Concen: 0.339 ug/l  
RT: 8.946 min Scan# 1289  
Delta R.T. -0.030 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

Tgt Ion: 75 Resp: 997  
Ion Ratio Lower Upper  
75 100  
77 0.0 25.7 38.5#

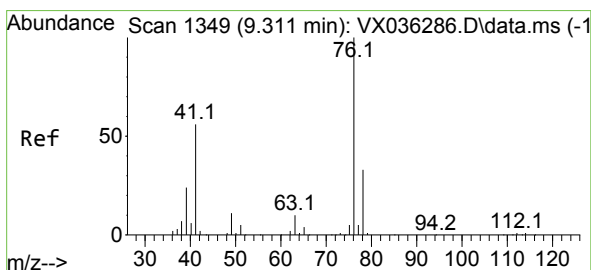
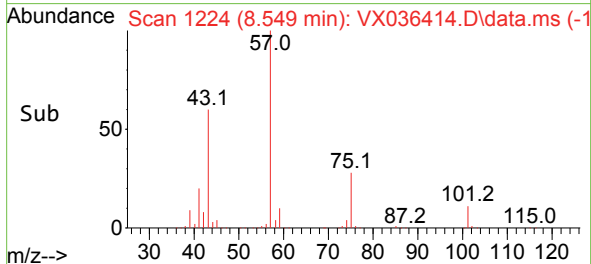
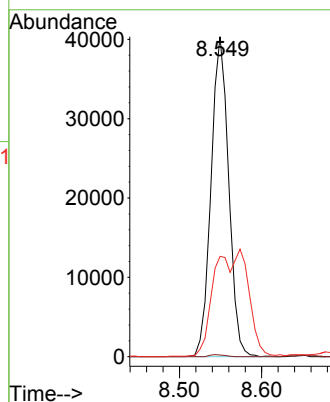
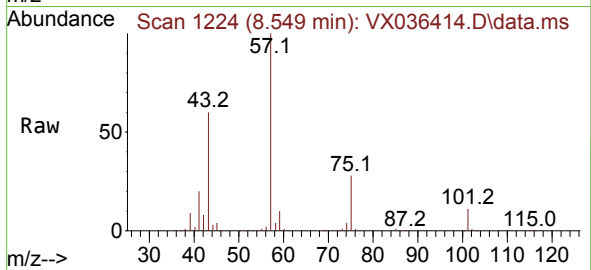




#54  
cis-1,3-Dichloropropene  
Concen: 18.039 ug/l  
RT: 8.549 min Scan# 1194  
Delta R.T. 0.183 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

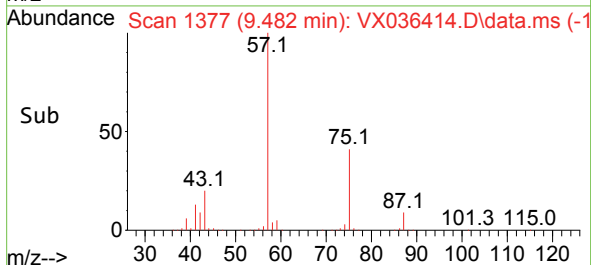
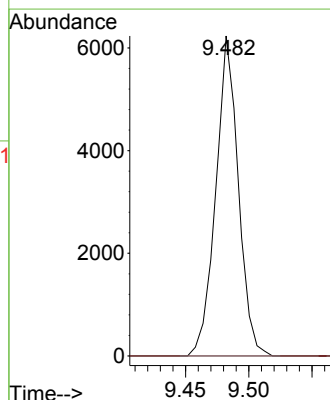
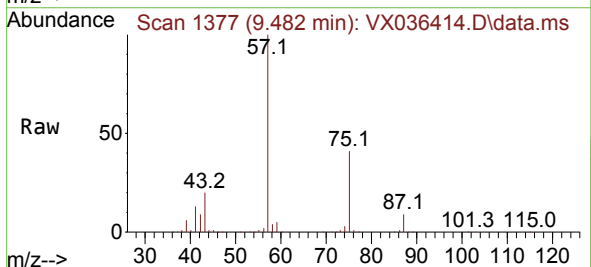
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153931TB

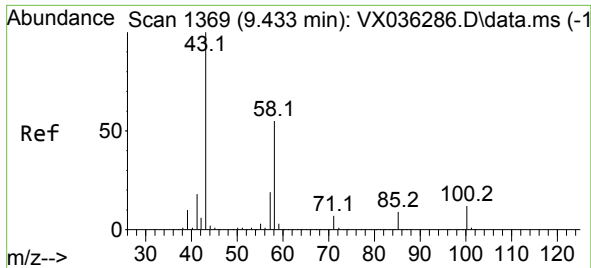
Tgt Ion: 75 Resp: 59970  
Ion Ratio Lower Upper  
75 100  
77 0.5 25.3 37.9#  
39 31.2 46.7 70.1#



#57  
1,3-Dichloropropane  
Concen: 2.034 ug/l  
RT: 9.482 min Scan# 1377  
Delta R.T. 0.177 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

Tgt Ion: 76 Resp: 7711  
Ion Ratio Lower Upper  
76 100  
78 0.0 26.1 39.1#

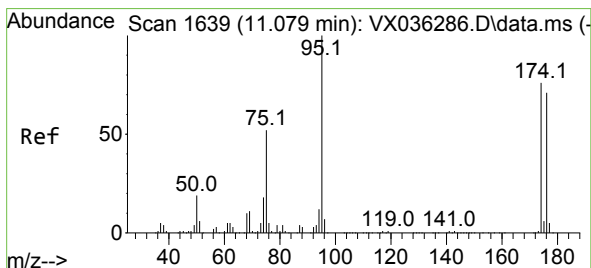
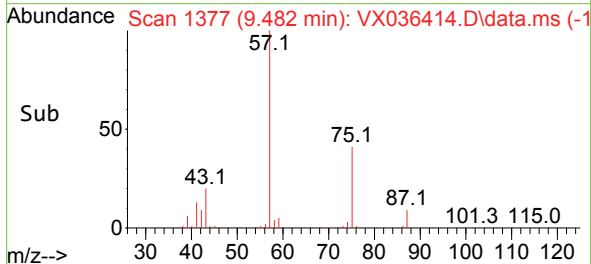
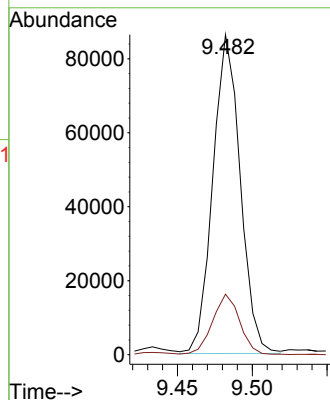
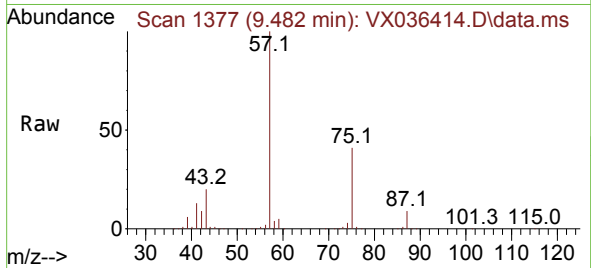




#59  
2-Hexanone  
Concen: 47.699 ug/l  
RT: 9.482 min Scan# 11  
Delta R.T. 0.049 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

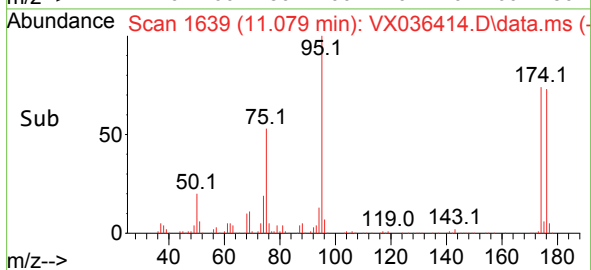
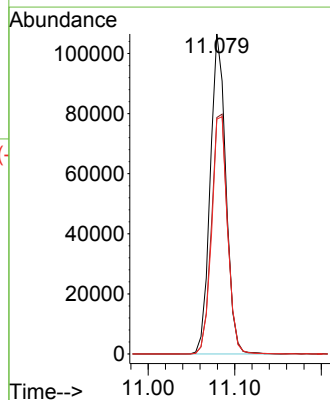
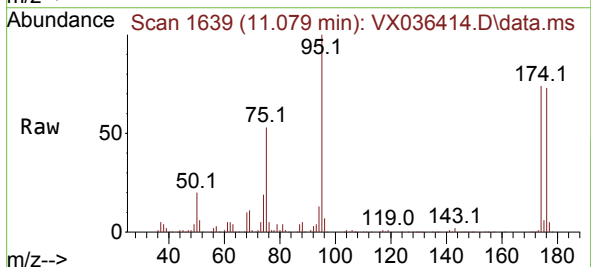
Instrument :  
MSVOA\_X  
ClientSampleId :  
PB153931TB

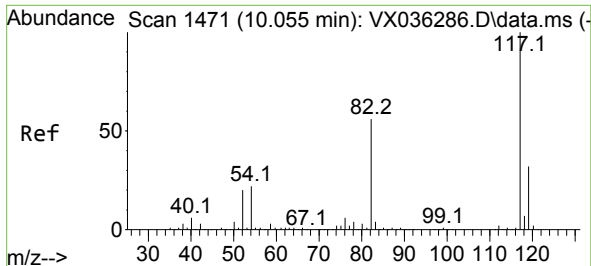
Tgt Ion: 43 Resp: 109688  
Ion Ratio Lower Upper  
43 100  
58 19.0 26.2 78.5#



#62  
4-Bromofluorobenzene  
Concen: 50.321 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

Tgt Ion: 95 Resp: 133508  
Ion Ratio Lower Upper  
95 100  
174 77.1 0.0 135.6  
176 75.5 0.0 131.0

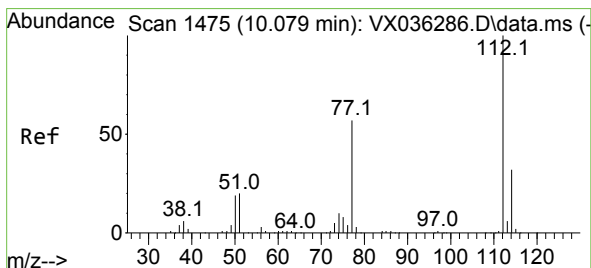
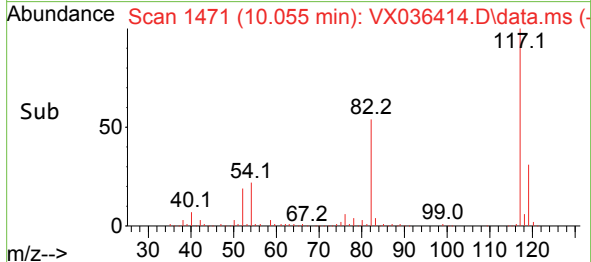
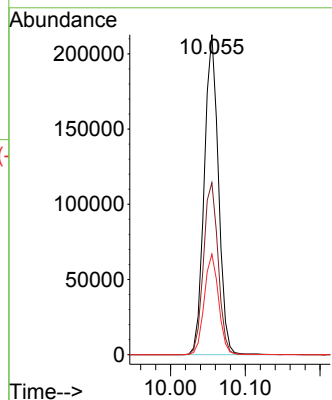
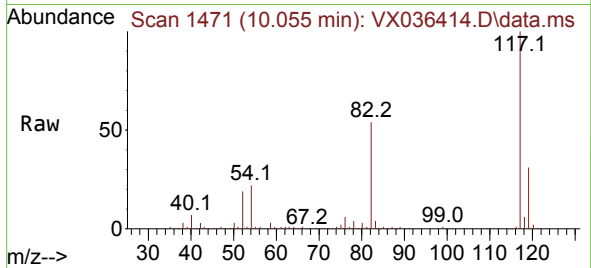




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

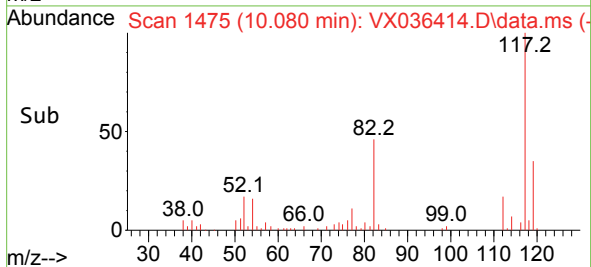
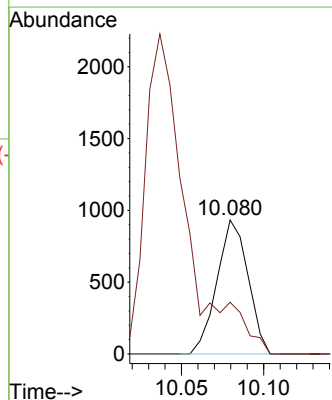
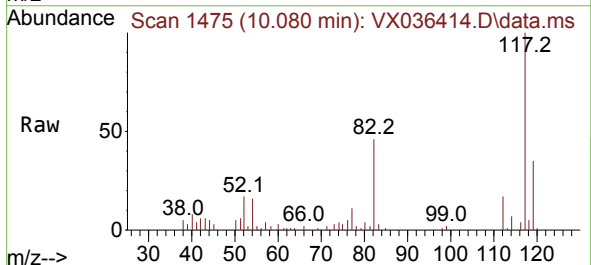
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MSVOA\_X  
ClientSampleId :  
PB153931TB

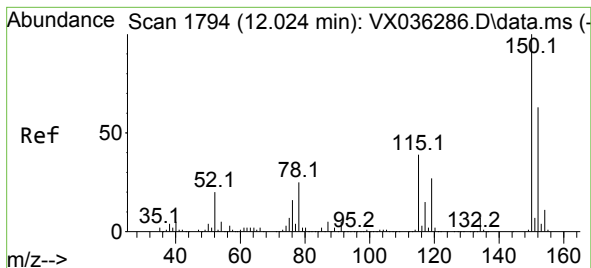
Tgt Ion:117 Resp: 280106  
Ion Ratio Lower Upper  
117 100  
82 53.8 46.2 69.4  
119 31.4 25.5 38.3



#65  
Chlorobenzene  
Concen: 0.208 ug/l  
RT: 10.080 min Scan# 1475  
Delta R.T. 0.001 min  
Lab File: VX036414.D  
Acq: 05 Jul 2023 19:17

Tgt Ion:112 Resp: 1224  
Ion Ratio Lower Upper  
112 100  
114 38.6 25.7 38.5#





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.024 min Scan# 1

Delta R.T. 0.000 min

Lab File: VX036414.D

Acq: 05 Jul 2023 19:17

Instrument :

MSVOA\_X

ClientSampleId :

PB153931TB

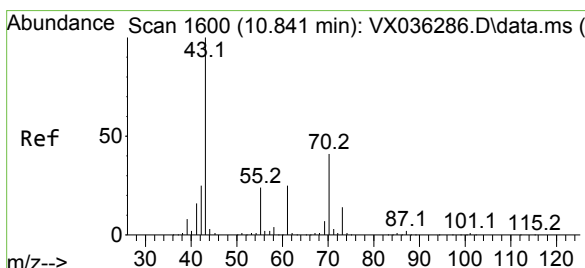
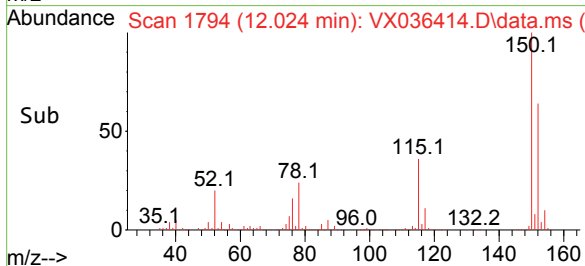
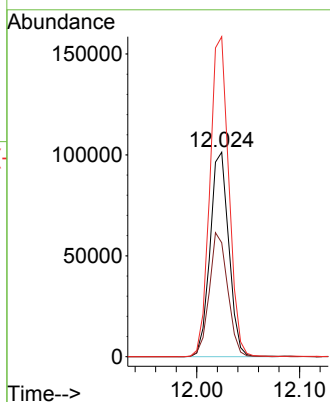
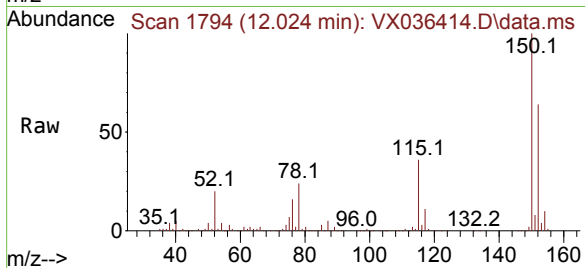
Tgt Ion:152 Resp: 128432

Ion Ratio Lower Upper

152 100

115 59.6 43.3 129.9

150 158.2 0.0 345.0



#74

N-ethyl acetate

Concen: 0.364 ug/l

RT: 10.817 min Scan# 1596

Delta R.T. -0.024 min

Lab File: VX036414.D

Acq: 05 Jul 2023 19:17

Tgt Ion: 43 Resp: 1393

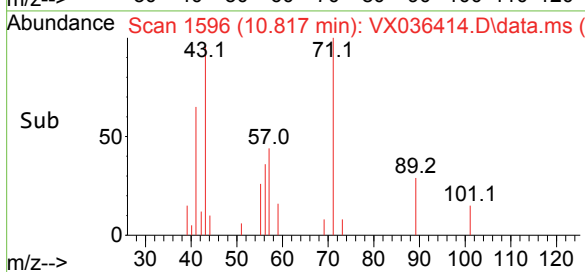
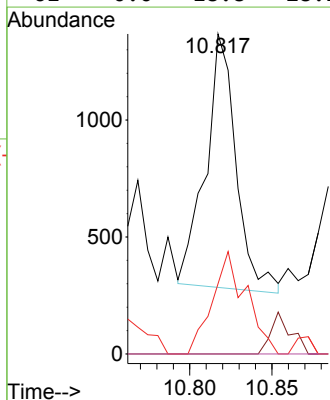
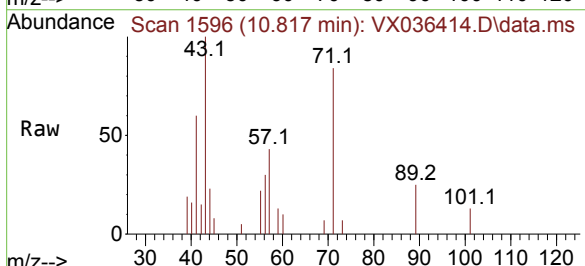
Ion Ratio Lower Upper

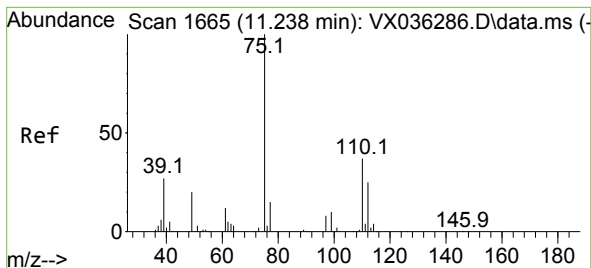
43 100

70 0.0 32.9 49.3#

55 45.2 19.3 28.9#

61 0.0 18.8 28.2#





#76

1,2,3-Trichloropropane

Concen: 25.529 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. -0.159 min

Lab File: VX036414.D

Acq: 05 Jul 2023 19:17

Instrument :

MSVOA\_X

ClientSampleId :

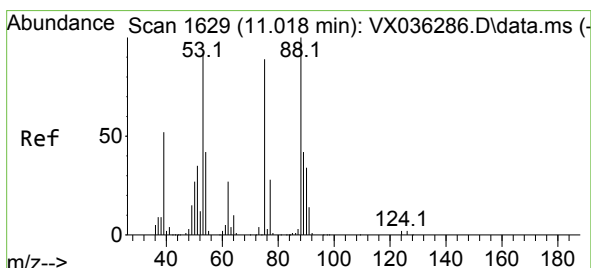
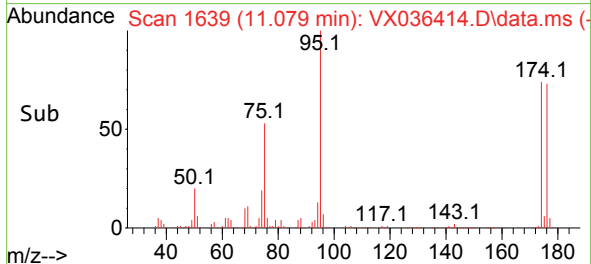
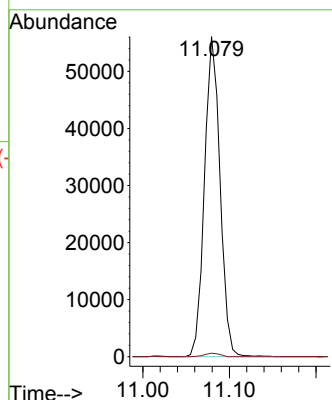
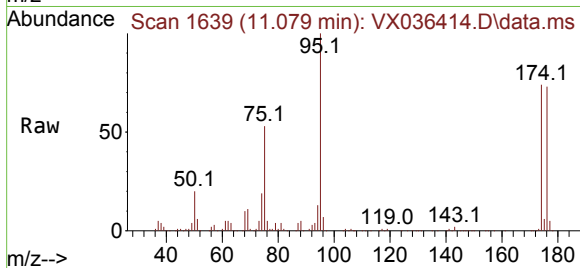
PB153931TB

Tgt Ion: 75 Resp: 69937

Ion Ratio Lower Upper

75 100

77 1.1 19.1 57.5#



#81

trans-1,4-Dichloro-2-butene

Concen: 83.219 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.061 min

Lab File: VX036414.D

Acq: 05 Jul 2023 19:17

Tgt Ion: 75 Resp: 69937

Ion Ratio Lower Upper

75 100

53 0.0 90.5 135.7#

89 0.1 36.9 55.3#

