

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU052623\  
 Data File : VU054285.D  
 Acq On : 26 May 2023 15:02  
 Operator : JC/MD  
 Sample : 02936-19  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PDB-BLANK-20230524

Quant Time: May 30 00:02:08 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052523W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri May 26 06:40:51 2023  
 Response via : Initial Calibration

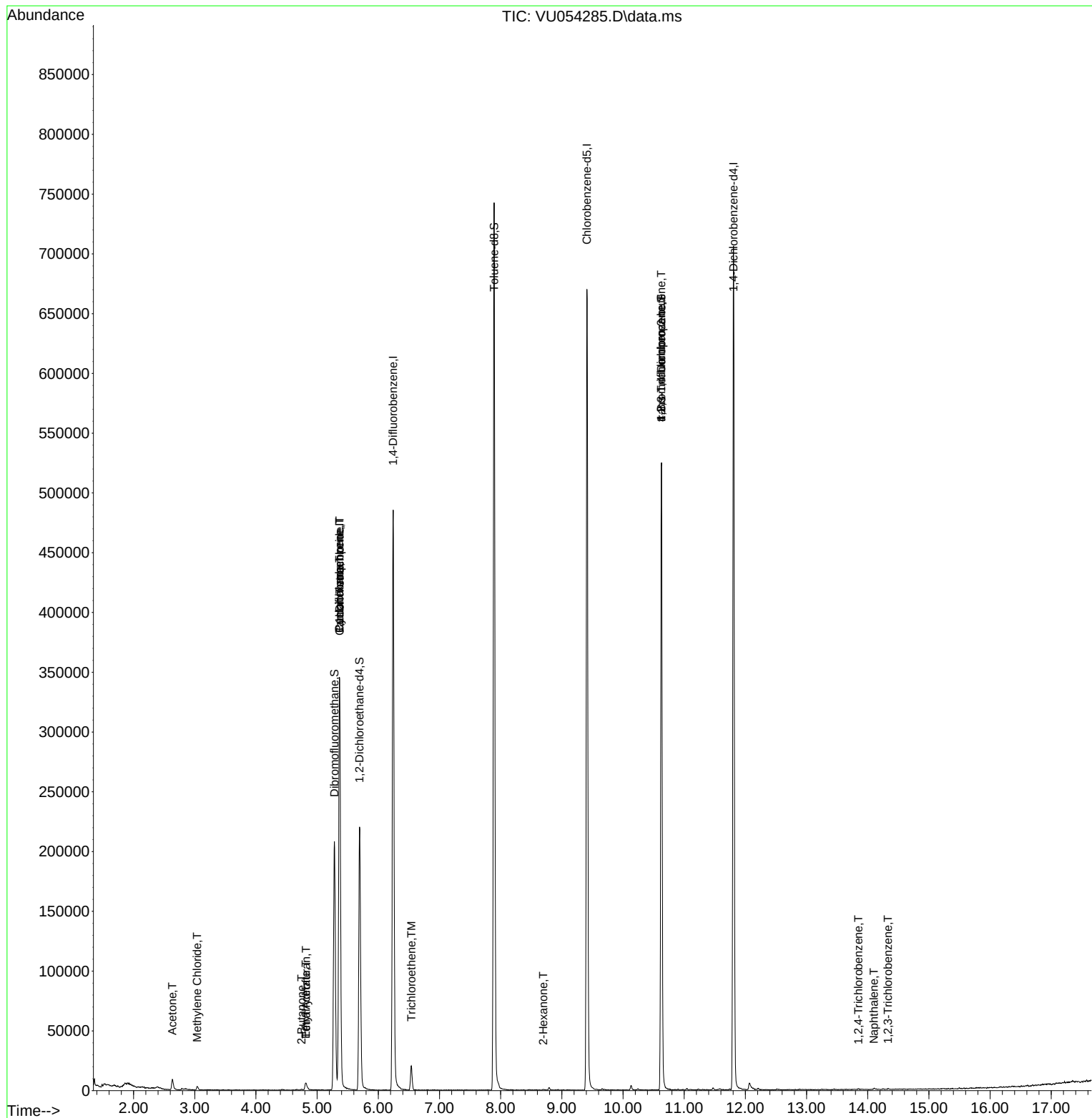
| Compound                      | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|----------|--------|----------|
| -----                         |        |       |          |          |        |          |
| Internal Standards            |        |       |          |          |        |          |
| 1) Pentafluorobenzene         | 5.366  | 168   | 252999   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.244  | 114   | 404284   | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.411  | 117   | 386755   | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.806 | 152   | 193356   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.694  | 65    | 165667   | 49.951   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery | =      | 99.900%  |
| 35) Dibromofluoromethane      | 5.282  | 113   | 137168   | 52.686   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery | =      | 105.380% |
| 50) Toluene-d8                | 7.893  | 98    | 495292   | 50.015   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery | =      | 100.020% |
| 62) 4-Bromofluorobenzene      | 10.626 | 95    | 176758   | 46.033   | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery | =      | 92.060%  |
| Target Compounds              |        |       |          |          |        |          |
|                               |        |       |          |          | Qvalue |          |
| 16) Acetone                   | 2.636  | 43    | 11085    | 5.831    | ug/l   | 100      |
| 20) Methylene Chloride        | 3.038  | 84    | 1627     | 0.474    | ug/l # | 83       |
| 25) 2-Butanone                | 4.745  | 43    | 1129     | 0.449    | ug/l # | 87       |
| 29) Tetrahydrofuran           | 4.819  | 42    | 320      | 0.202    | ug/l # | 26       |
| 31) Cyclohexane               | 5.366  | 56    | 4590     | 0.980    | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.366  | 75    | 19651    | 4.806    | ug/l # | 49       |
| 37) Ethyl Acetate             | 4.816  | 43    | 9532     | 1.913    | ug/l # | 93       |
| 38) Carbon Tetrachloride      | 5.369  | 117   | 23340    | 5.576    | ug/l # | 16       |
| 44) Trichloroethene           | 6.539  | 130   | 6915     | 2.121    | ug/l   | 95       |
| 59) 2-Hexanone                | 8.697  | 43    | 727      | 0.201    | ug/l # | 57       |
| 76) 1,2,3-Trichloropropane    | 10.626 | 75    | 90087    | 15.964   | ug/l # | 45       |
| 81) trans-1,4-Dichloro-2-b... | 10.626 | 75    | 90087    | 60.789   | ug/l # | 15       |
| 93) 1,2,4-Trichlorobenzene    | 13.848 | 180   | 465      | 1.744    | ug/l # | 74       |
| 95) Naphthalene               | 14.102 | 128   | 1566     | 2.096    | ug/l # | 73       |
| 96) 1,2,3-Trichlorobenzene    | 14.330 | 180   | 239      | 1.308    | ug/l # | 59       |
| -----                         |        |       |          |          |        |          |

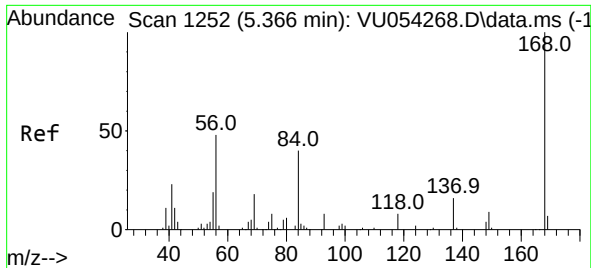
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 30 00:02:08 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U052523W.M  
Quant Title : SW846 8260  
QLast Update : Fri May 26 06:40:51 2023  
Response via : Initial Calibration

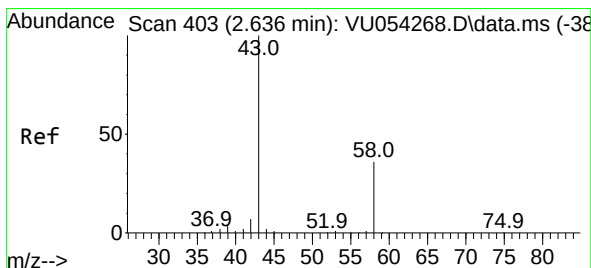
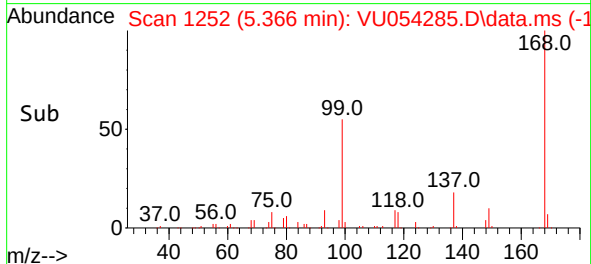
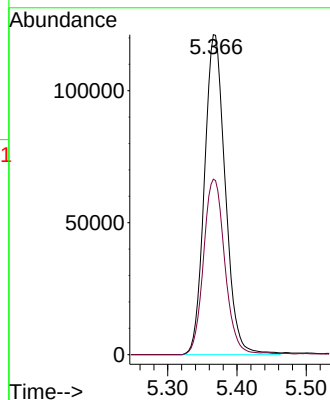
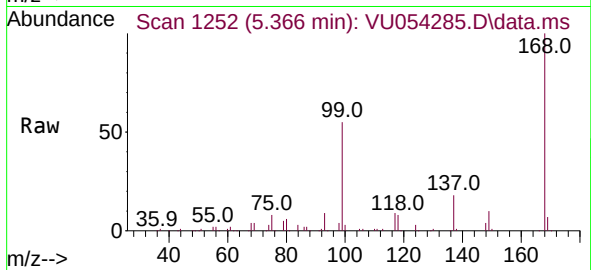




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.366 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VU054285.D  
Acq: 26 May 2023 15:02

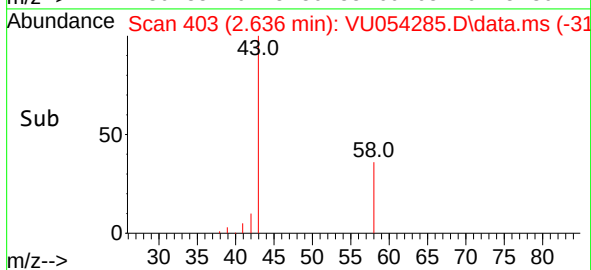
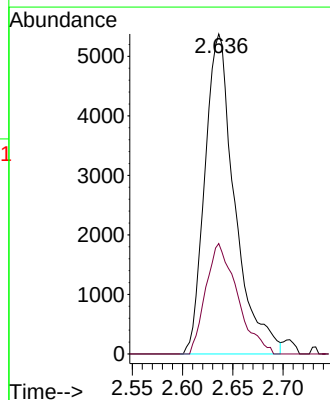
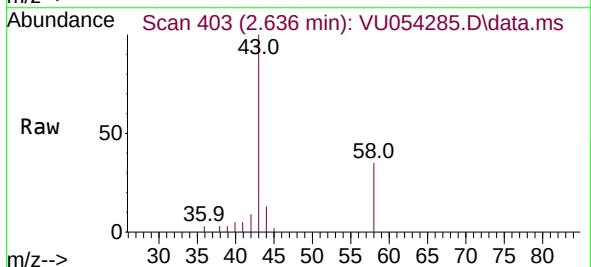
Instrument :  
MSVOA\_U  
ClientSampleId :  
PDB-BLANK-20230524

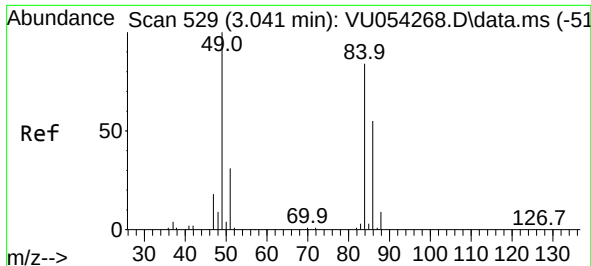
Tgt Ion:168 Resp: 252999  
Ion Ratio Lower Upper  
168 100  
99 54.8 39.3 58.9



#16  
Acetone  
Concen: 5.831 ug/l  
RT: 2.636 min Scan# 403  
Delta R.T. -0.000 min  
Lab File: VU054285.D  
Acq: 26 May 2023 15:02

Tgt Ion: 43 Resp: 11085  
Ion Ratio Lower Upper  
43 100  
58 34.5 27.5 41.3

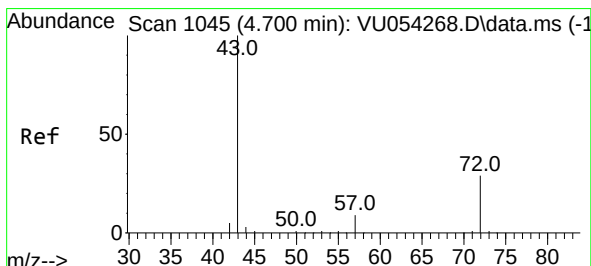
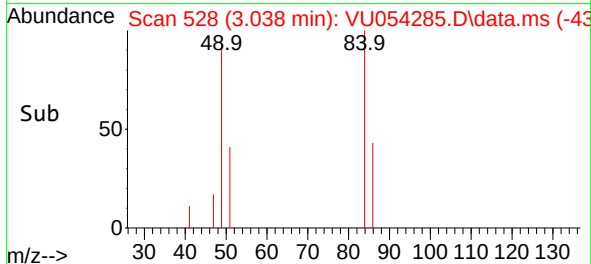
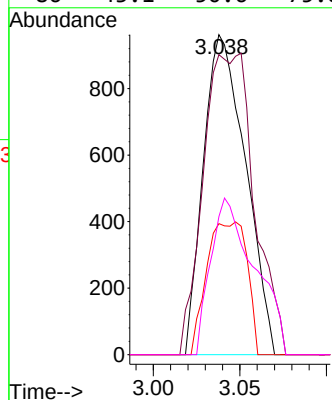
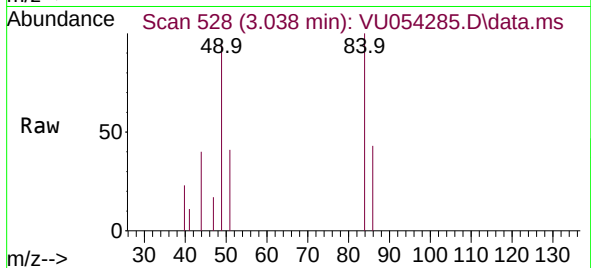




#20  
Methylene Chloride  
Concen: 0.474 ug/l  
RT: 3.038 min Scan# 51  
Delta R.T. -0.003 min  
Lab File: VU054285.D  
Acq: 26 May 2023 15:02

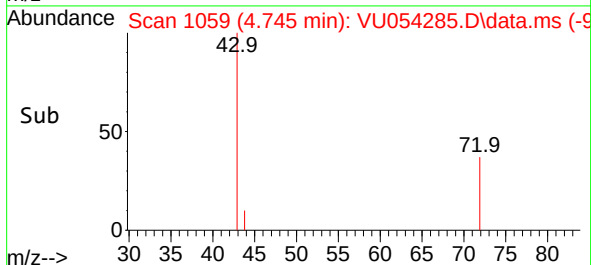
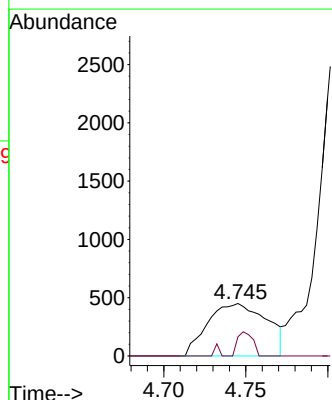
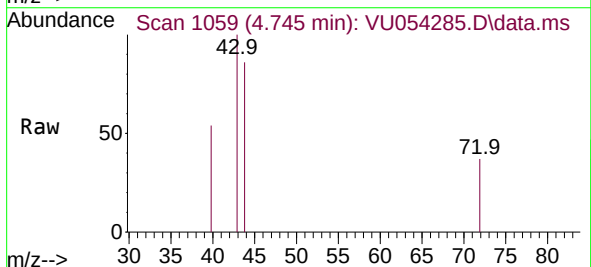
Instrument :  
MSVOA\_U  
ClientSampleId :  
PDB-BLANK-20230524

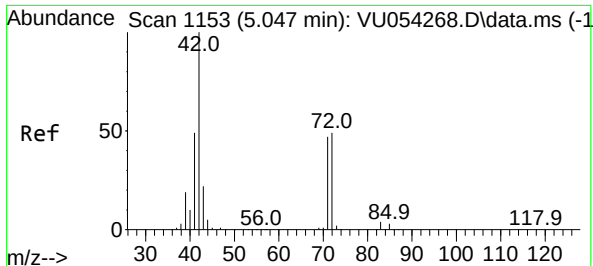
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 1627  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 93.8  | 86.6  | 129.8 |
| 51       | 41.0  | 26.6  | 40.0# |
| 86       | 43.1  | 50.6  | 75.8# |



#25  
2-Butanone  
Concen: 0.449 ug/l  
RT: 4.745 min Scan# 1059  
Delta R.T. 0.045 min  
Lab File: VU054285.D  
Acq: 26 May 2023 15:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1129  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 36.7  | 23.8  | 35.6# |





#29

Tetrahydrofuran

Concen: 0.202 ug/l

RT: 4.819 min Scan# 1082

Delta R.T. -0.228 min

Lab File: VU054285.D

Acq: 26 May 2023 15:02

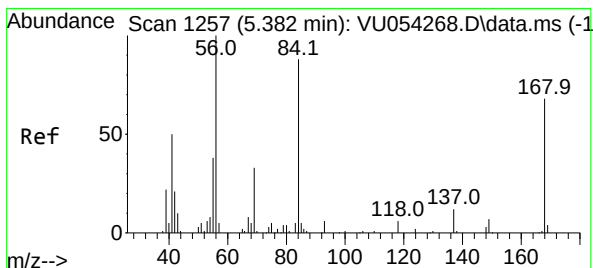
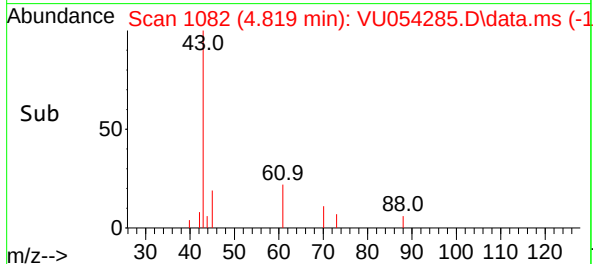
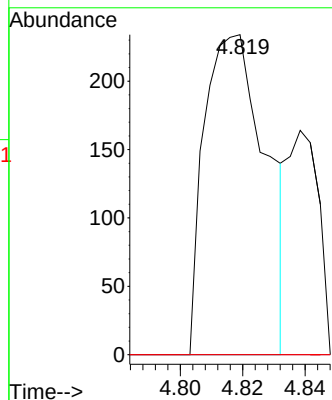
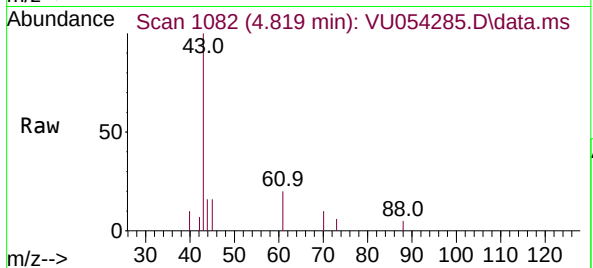
Instrument :

MSVOA\_U

ClientSampleId :

PDB-BLANK-20230524

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 42    | Resp: | 320   |
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 72       | 0.0   | 42.6  | 63.8# |
| 71       | 0.0   | 40.3  | 60.5# |



#31

Cyclohexane

Concen: 0.980 ug/l

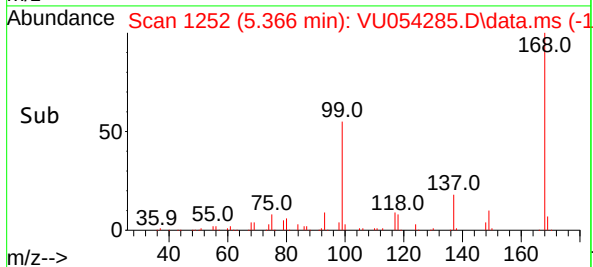
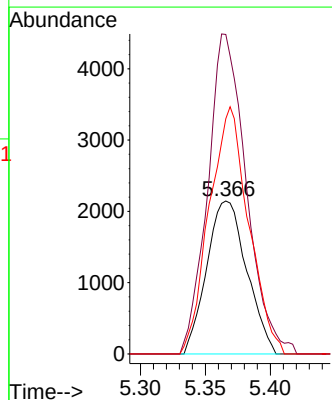
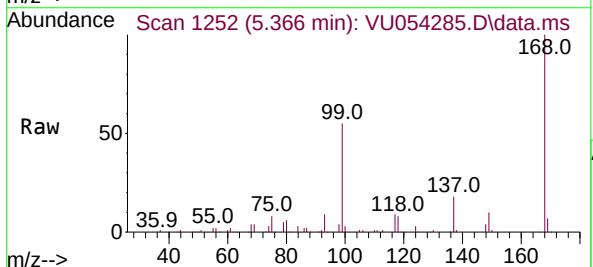
RT: 5.366 min Scan# 1252

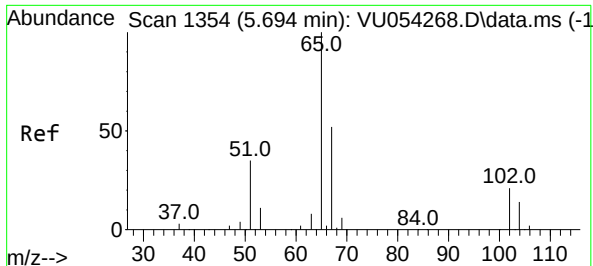
Delta R.T. -0.016 min

Lab File: VU054285.D

Acq: 26 May 2023 15:02

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 56    | Resp: | 4590   |
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 208.9 | 27.8  | 41.8#  |
| 84       | 153.7 | 74.2  | 111.4# |





#33

1,2-Dichloroethane-d4

Concen: 49.951 ug/l

RT: 5.694 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU054285.D

Acq: 26 May 2023 15:02

Instrument :

MSVOA\_U

ClientSampleId :

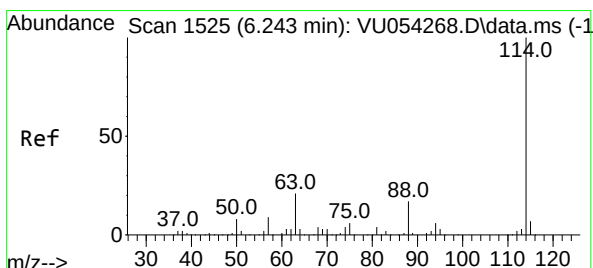
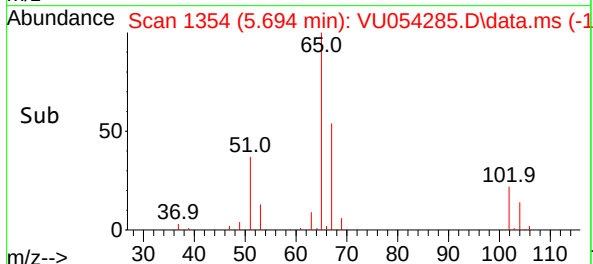
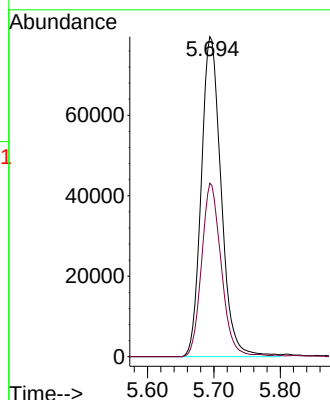
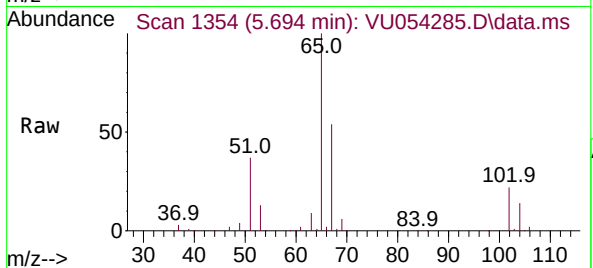
PDB-BLANK-20230524

Tgt Ion: 65 Resp: 165667

Ion Ratio Lower Upper

65 100

67 53.2 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.244 min Scan# 1525

Delta R.T. 0.001 min

Lab File: VU054285.D

Acq: 26 May 2023 15:02

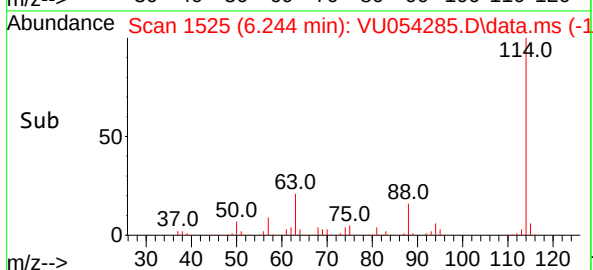
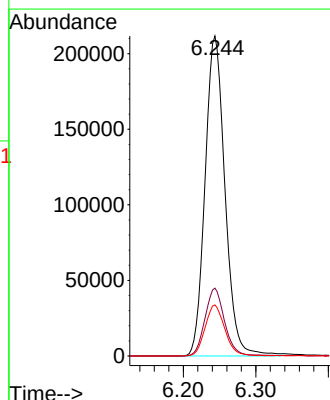
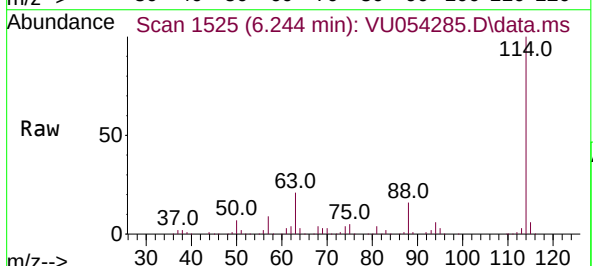
Tgt Ion: 114 Resp: 404284

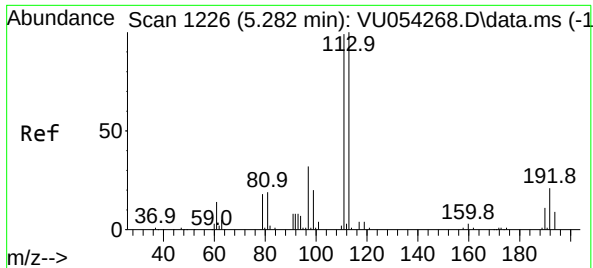
Ion Ratio Lower Upper

114 100

63 21.2 0.0 37.8

88 16.0 0.0 29.2

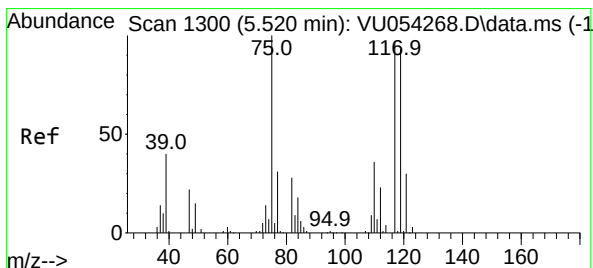
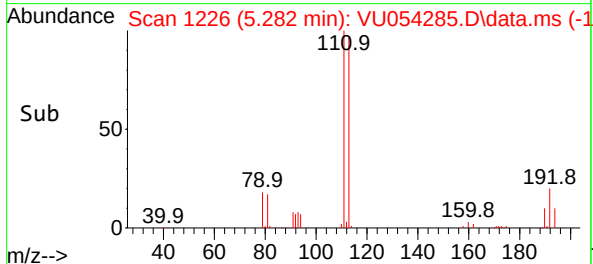
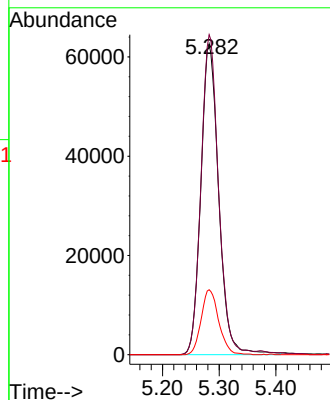
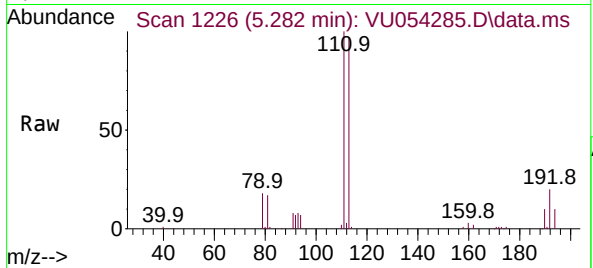




#35  
Dibromofluoromethane  
Concen: 52.686 ug/l  
RT: 5.282 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU054285.D  
Acq: 26 May 2023 15:02

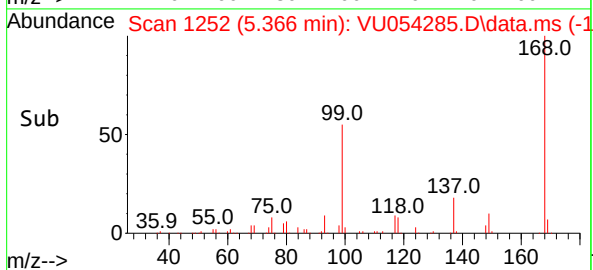
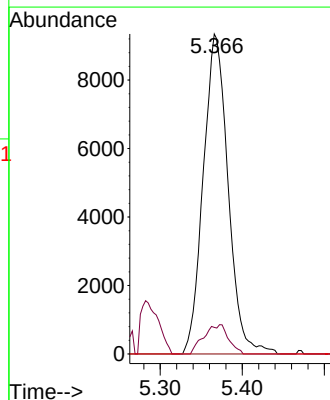
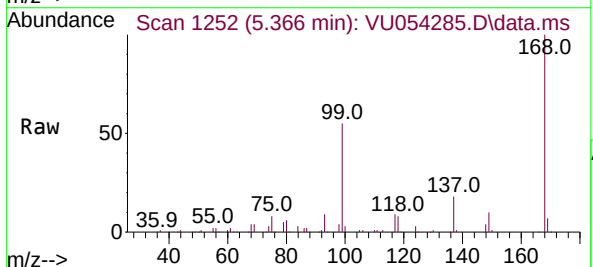
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MSVOA\_U  
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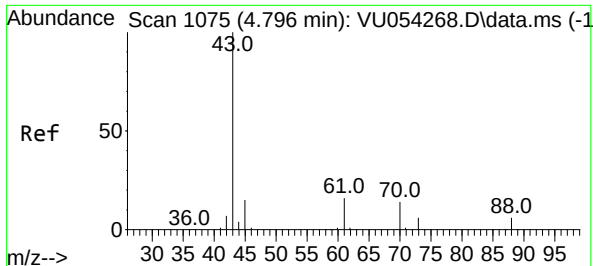
Tgt Ion:113 Resp: 137168  
Ion Ratio Lower Upper  
113 100  
111 101.1 82.1 123.1  
192 20.6 18.0 27.0



#36  
1,1-Dichloropropene  
Concen: 4.806 ug/l  
RT: 5.366 min Scan# 1252  
Delta R.T. -0.154 min  
Lab File: VU054285.D  
Acq: 26 May 2023 15:02

Tgt Ion: 75 Resp: 19651  
Ion Ratio Lower Upper  
75 100  
110 9.1 18.4 55.2#  
77 0.0 25.1 37.7#





#37

Ethyl Acetate

Concen: 1.913 ug/l

RT: 4.816 min Scan# 1081

Delta R.T. 0.020 min

Lab File: VU054285.D

Acq: 26 May 2023 15:02

Instrument :

MSVOA\_U

ClientSampleId :

PDB-BLANK-20230524

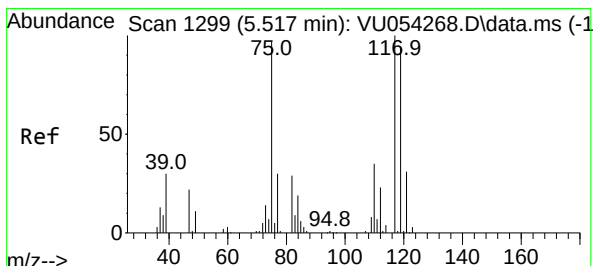
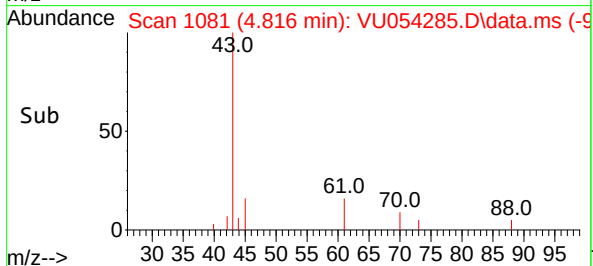
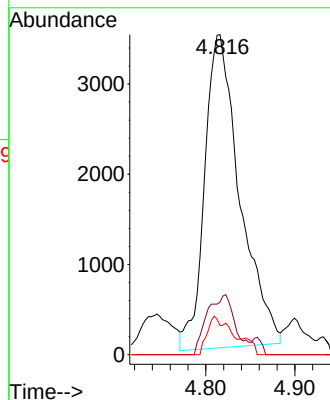
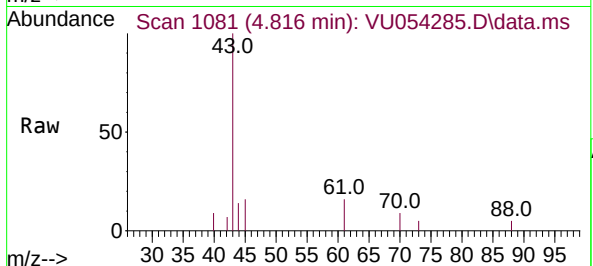
Tgt Ion: 43 Resp: 9532

Ion Ratio Lower Upper

43 100

61 15.5 9.5 14.3#

70 7.9 7.5 11.3



#38

Carbon Tetrachloride

Concen: 5.576 ug/l

RT: 5.369 min Scan# 1253

Delta R.T. -0.148 min

Lab File: VU054285.D

Acq: 26 May 2023 15:02

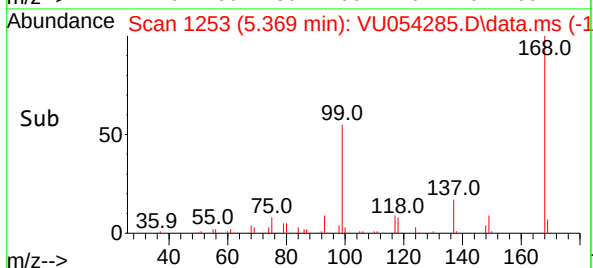
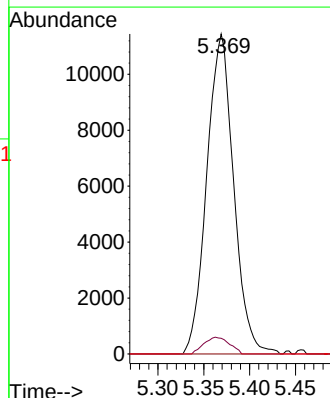
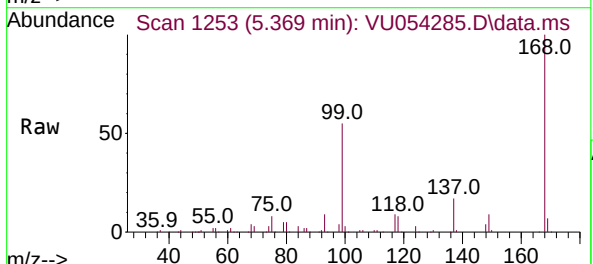
Tgt Ion: 117 Resp: 23340

Ion Ratio Lower Upper

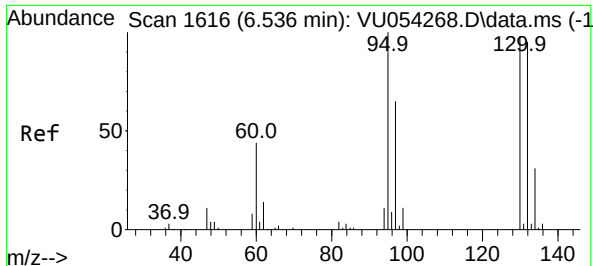
117 100

119 4.9 76.8 115.2#

121 0.0 24.7 37.1#



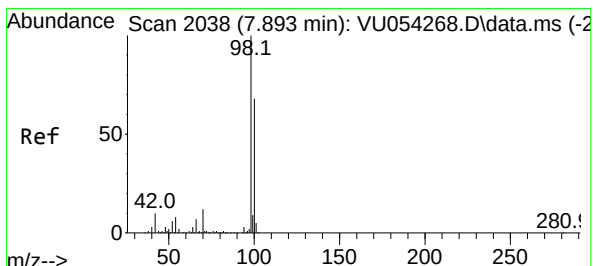
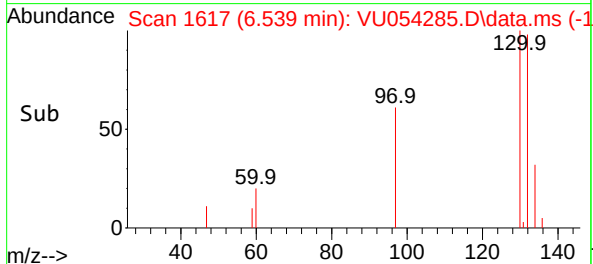
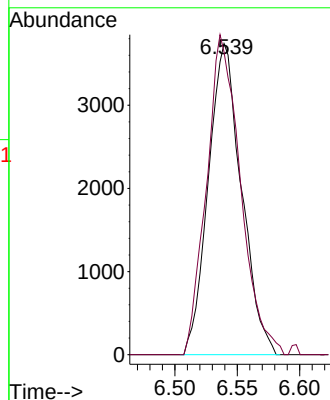
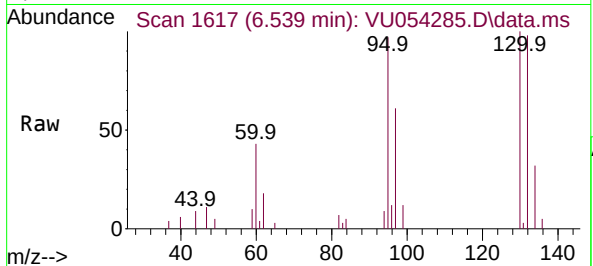




#44  
Trichloroethene  
Concen: 2.121 ug/l  
RT: 6.539 min Scan# 1616  
Delta R.T. 0.003 min  
Lab File: VU054285.D  
Acq: 26 May 2023 15:02

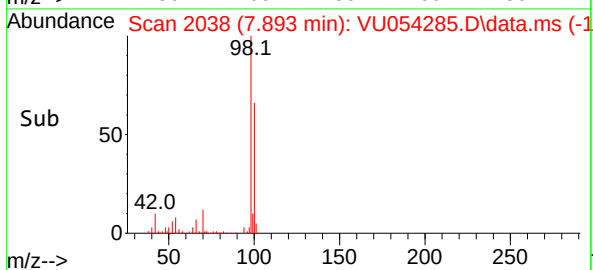
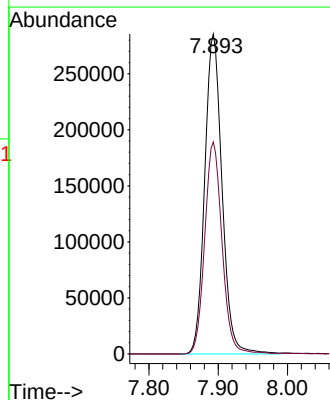
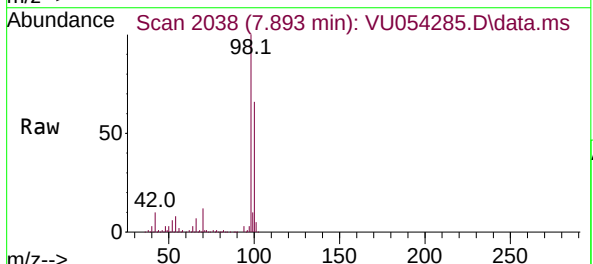
Instrument :  
MSVOA\_U  
ClientSampleId :  
PDB-BLANK-20230524

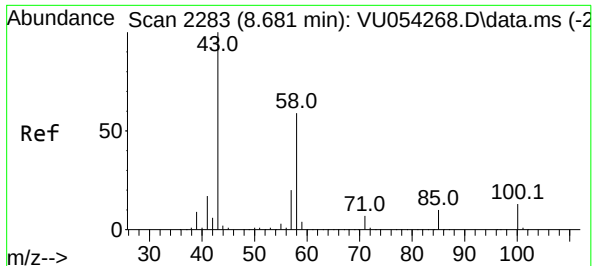
Tgt Ion:130 Resp: 6915  
Ion Ratio Lower Upper  
130 100  
95 97.3 0.0 184.6



#50  
Toluene-d8  
Concen: 50.015 ug/l  
RT: 7.893 min Scan# 2038  
Delta R.T. -0.000 min  
Lab File: VU054285.D  
Acq: 26 May 2023 15:02

Tgt Ion: 98 Resp: 495292  
Ion Ratio Lower Upper  
98 100  
100 66.4 51.7 77.5





#59

2-Hexanone

Concen: 0.201 ug/l

RT: 8.697 min Scan# 21

Delta R.T. 0.016 min

Lab File: VU054285.D

Acq: 26 May 2023 15:02

Instrument :

MSVOA\_U

ClientSampleId :

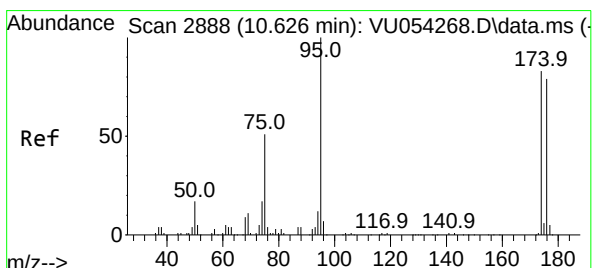
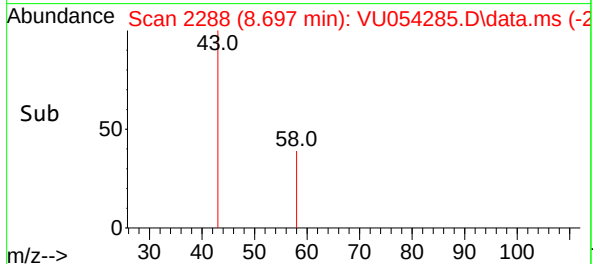
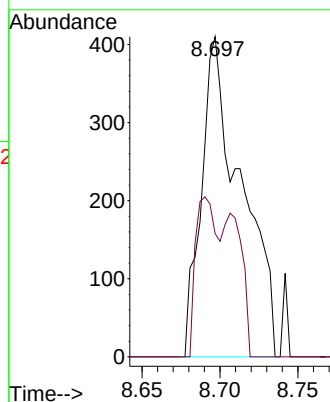
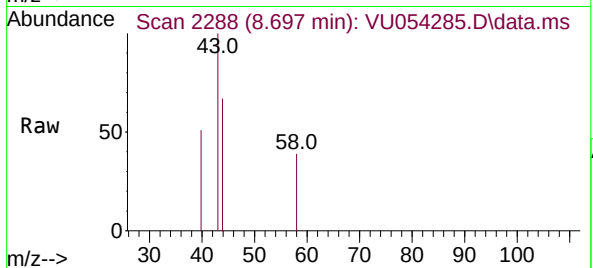
PDB-BLANK-20230524

Tgt Ion: 43 Resp: 727

Ion Ratio Lower Upper

43 100

58 27.9 30.3 90.8#



#62

4-Bromofluorobenzene

Concen: 46.033 ug/l

RT: 10.626 min Scan# 2888

Delta R.T. -0.000 min

Lab File: VU054285.D

Acq: 26 May 2023 15:02

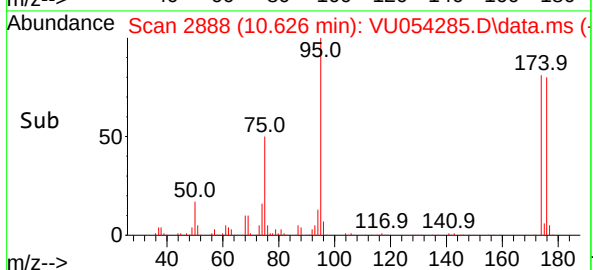
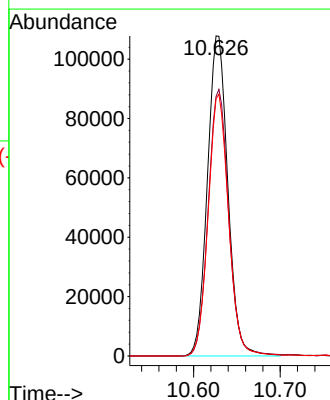
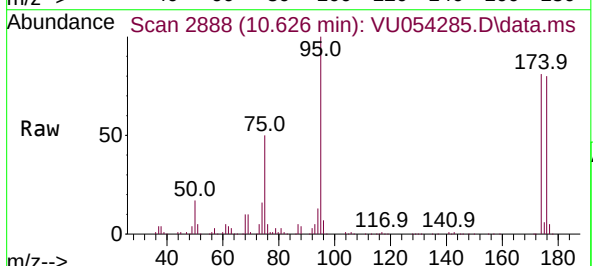
Tgt Ion: 95 Resp: 176758

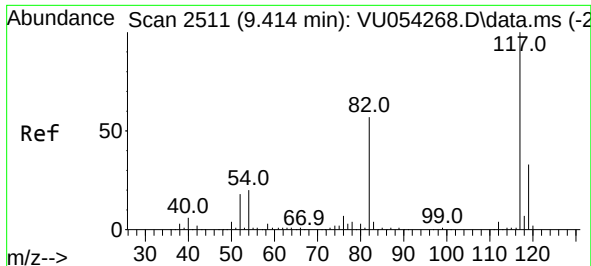
Ion Ratio Lower Upper

95 100

174 83.5 0.0 182.0

176 81.7 0.0 177.8





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 9.411 min Scan# 2511

Delta R.T. -0.003 min

Lab File: VU054285.D

Acq: 26 May 2023 15:02

Instrument :

MSVOA\_U

ClientSampleId :

PDB-BLANK-20230524

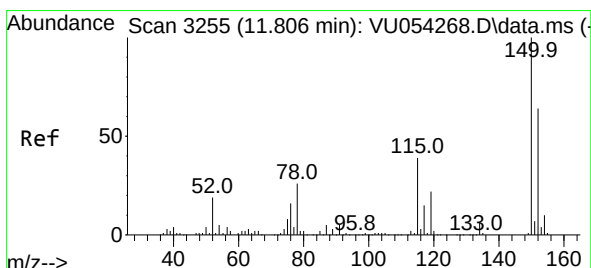
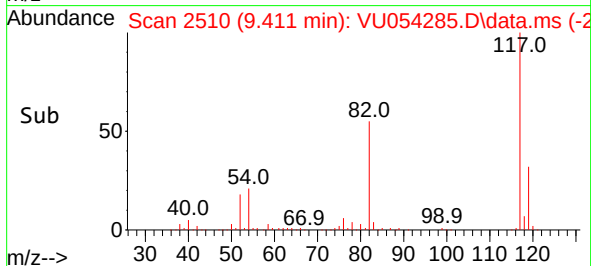
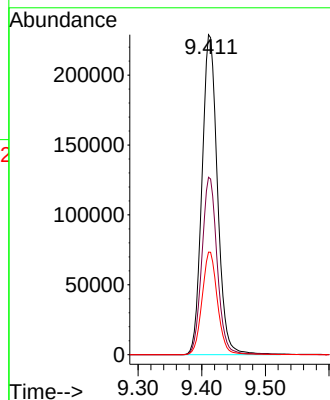
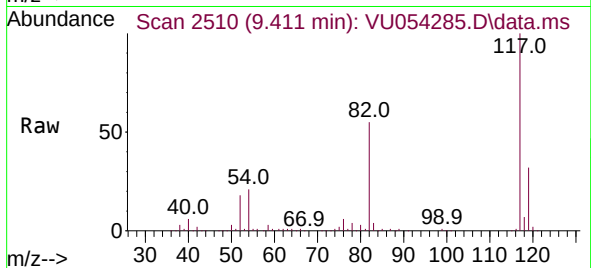
Tgt Ion:117 Resp: 386755

Ion Ratio Lower Upper

117 100

82 55.5 41.7 62.5

119 32.1 25.7 38.5



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.806 min Scan# 3255

Delta R.T. 0.000 min

Lab File: VU054285.D

Acq: 26 May 2023 15:02

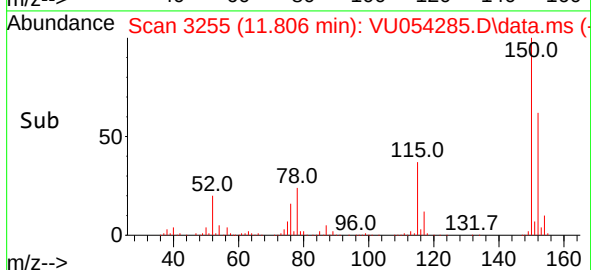
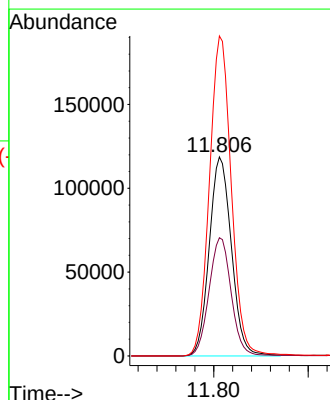
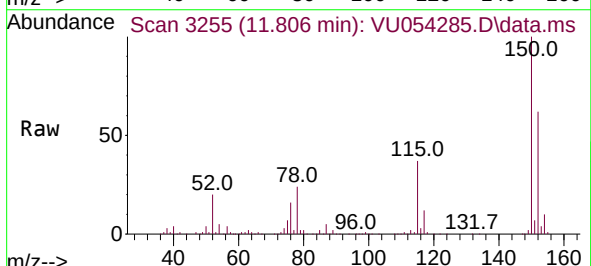
Tgt Ion:152 Resp: 193356

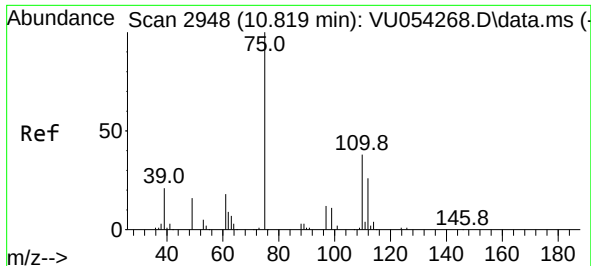
Ion Ratio Lower Upper

152 100

115 59.2 37.0 110.9

150 159.0 0.0 342.2

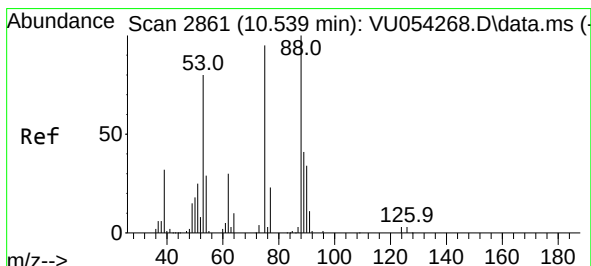
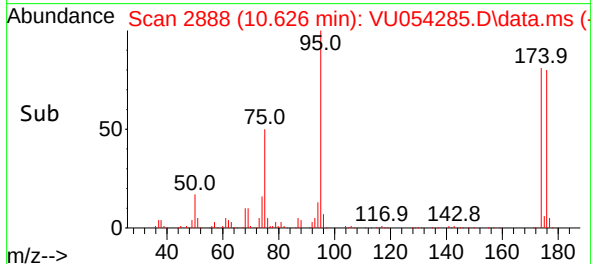
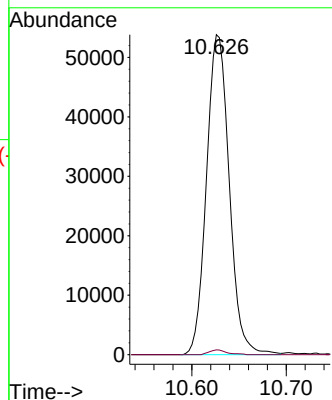
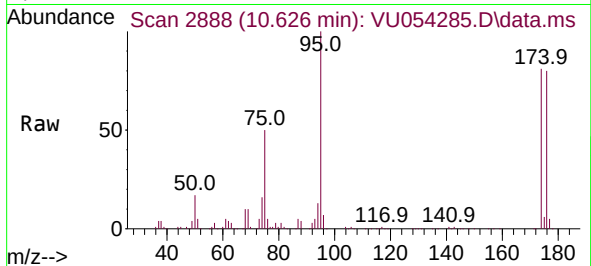




#76  
1,2,3-Trichloropropane  
Concen: 15.964 ug/l  
RT: 10.626 min Scan# 21  
Delta R.T. -0.193 min  
Lab File: VU054285.D  
Acq: 26 May 2023 15:02

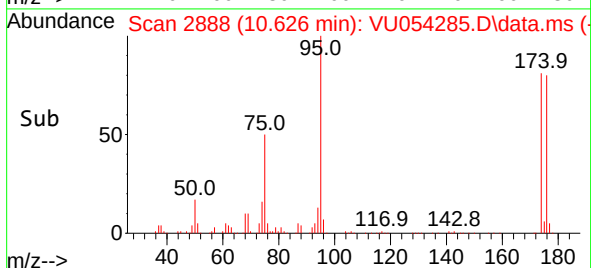
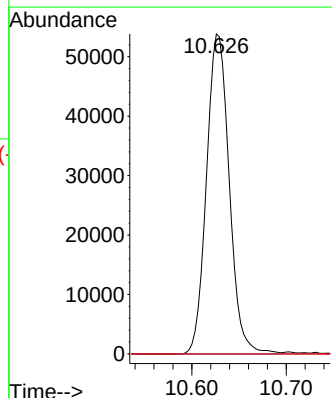
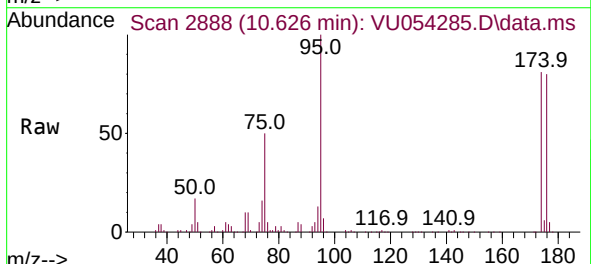
Instrument :  
MSVOA\_U  
ClientSampleId :  
PDB-BLANK-20230524

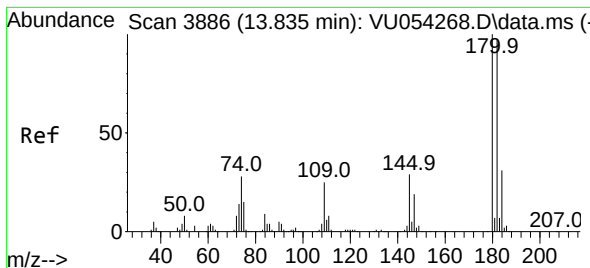
Tgt Ion: 75 Resp: 90087  
Ion Ratio Lower Upper  
75 100  
77 1.2 15.8 47.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 60.789 ug/l  
RT: 10.626 min Scan# 2888  
Delta R.T. 0.087 min  
Lab File: VU054285.D  
Acq: 26 May 2023 15:02

Tgt Ion: 75 Resp: 90087  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.2 103.8#  
89 0.0 37.0 55.6#





#93

1,2,4-Trichlorobenzene

Concen: 1.744 ug/l

RT: 13.848 min Scan# 3886

Delta R.T. 0.013 min

Lab File: VU054285.D

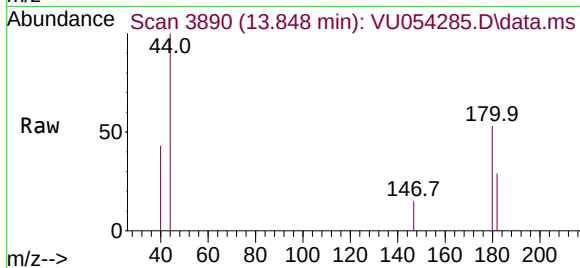
Acq: 26 May 2023 15:02

Instrument :

MSVOA\_U

ClientSampleId :

PDB-BLANK-20230524



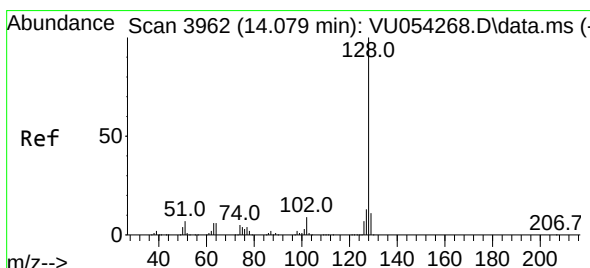
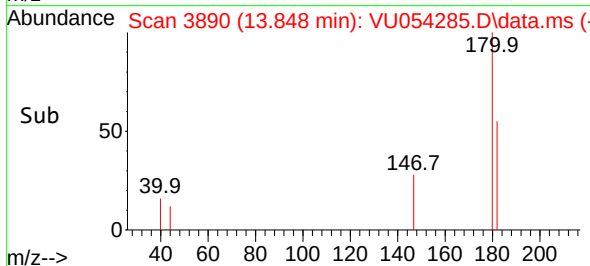
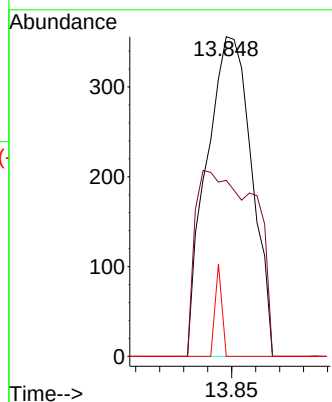
Tgt Ion:180 Resp: 465

Ion Ratio Lower Upper

180 100

182 76.1 47.9 143.6

145 4.3 14.0 41.9#



#95

Naphthalene

Concen: 2.096 ug/l

RT: 14.102 min Scan# 3969

Delta R.T. 0.023 min

Lab File: VU054285.D

Acq: 26 May 2023 15:02

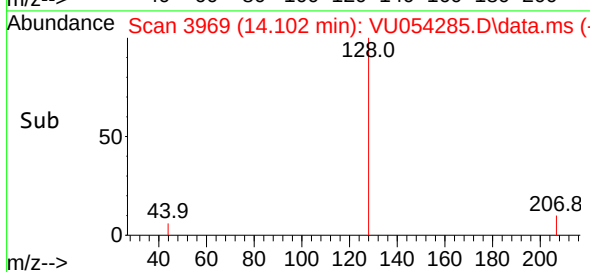
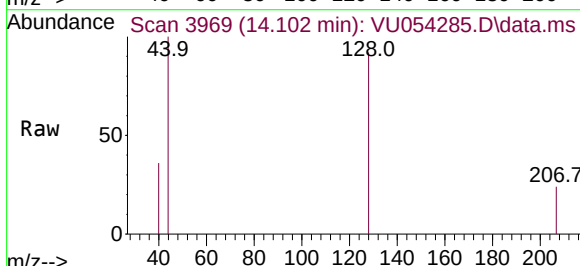
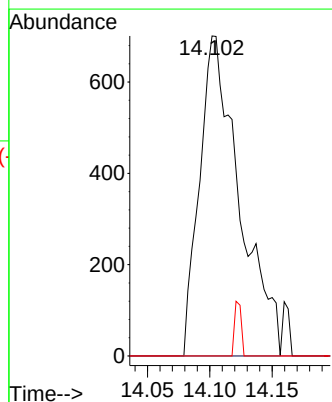
Tgt Ion:128 Resp: 1566

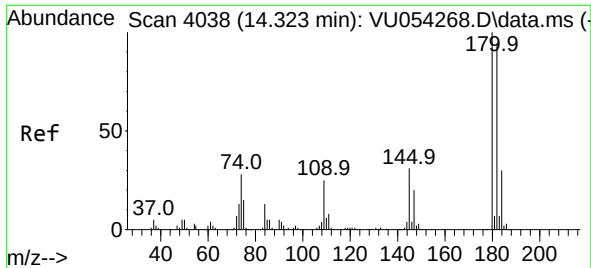
Ion Ratio Lower Upper

128 100

127 0.0 10.3 15.5#

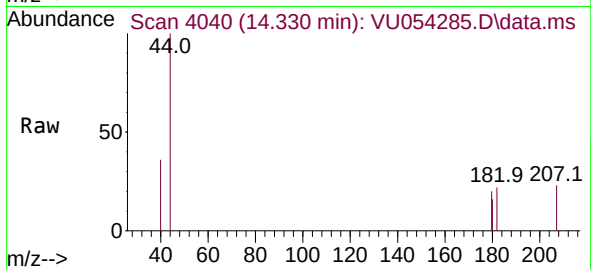
129 2.9 8.6 13.0#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 1.308 ug/l  
 RT: 14.330 min Scan# 4038  
 Delta R.T. 0.007 min  
 Lab File: VU054285.D  
 Acq: 26 May 2023 15:02

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 PDB-BLANK-20230524



Tgt Ion:180 Resp: 239  
 Ion Ratio Lower Upper  
 180 100  
 182 132.2 48.4 145.0  
 145 0.0 14.8 44.4#

