

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU111221\  
 Data File : VU045774.D  
 Acq On : 12 Nov 2021 17:07  
 Operator : SY/MD  
 Sample : M4687-05  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Nov 15 05:21:41 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Nov 05 13:35:16 2021  
 Response via : Initial Calibration

| Compound                   | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|----------------------------|--------|------|----------|--------|-------|----------|
| -----                      |        |      |          |        |       |          |
| Internal Standards         |        |      |          |        |       |          |
| 1) Pentafluorobenzene      | 5.375  | 168  | 117022   | 50.000 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 6.253  | 114  | 216606   | 50.000 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 9.420  | 117  | 227004   | 50.000 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 11.816 | 152  | 113792   | 50.000 | ug/l  | 0.00     |

|                             |        |       |          |          |      |          |
|-----------------------------|--------|-------|----------|----------|------|----------|
| System Monitoring Compounds |        |       |          |          |      |          |
| 33) 1,2-Dichloroethane-d4   | 5.703  | 65    | 97753    | 55.778   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 78 - 117 | Recovery | =    | 111.560% |
| 35) Dibromofluoromethane    | 5.292  | 113   | 75554    | 52.244   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 75 - 124 | Recovery | =    | 104.480% |
| 50) Toluene-d8              | 7.899  | 98    | 290263   | 53.977   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 92 - 112 | Recovery | =    | 107.960% |
| 62) 4-Bromofluorobenzene    | 10.636 | 95    | 110300   | 51.151   | ug/l | 0.00     |
| Spiked Amount               | 50.000 | Range | 83 - 123 | Recovery | =    | 102.300% |

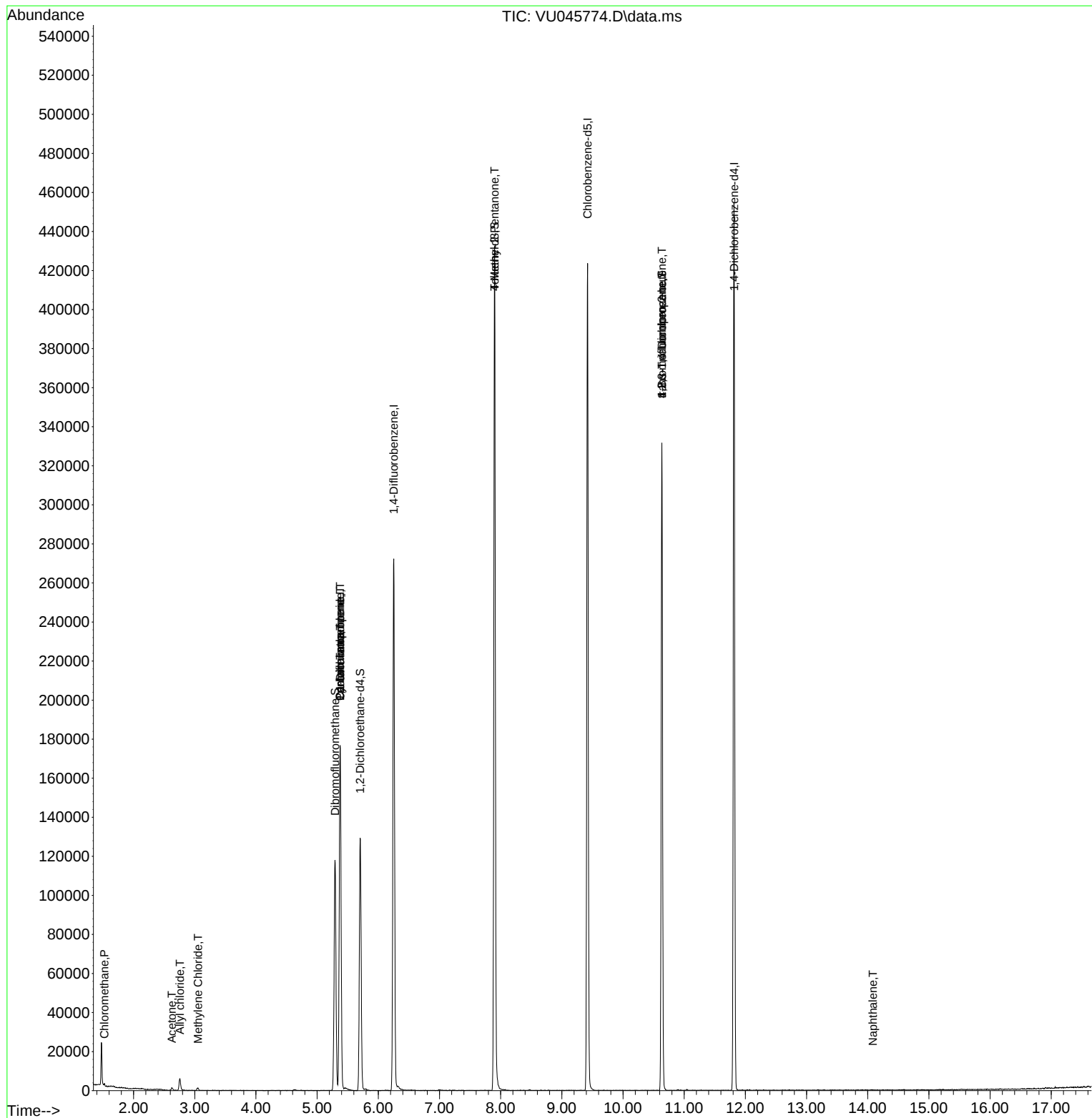
| Target Compounds              | R.T.   | QIon | Response | Conc   | Units  | Qvalue |
|-------------------------------|--------|------|----------|--------|--------|--------|
| 3) Chloromethane              | 1.523  | 50   | 634      | 0.365  | ug/l   | 91     |
| 14) Allyl chloride            | 2.758  | 41   | 599      | 0.261  | ug/l # | 59     |
| 16) Acetone                   | 2.626  | 43   | 1622     | 1.818  | ug/l # | 88     |
| 20) Methylene Chloride        | 3.054  | 84   | 691      | 0.446  | ug/l # | 85     |
| 31) Cyclohexane               | 5.375  | 56   | 2770     | 1.083  | ug/l # | 3      |
| 36) 1,1-Dichloropropene       | 5.375  | 75   | 10233    | 4.845  | ug/l # | 49     |
| 38) Carbon Tetrachloride      | 5.375  | 117  | 12520    | 5.880  | ug/l # | 17     |
| 51) 4-Methyl-2-Pentanone      | 7.899  | 43   | 1035     | 0.423  | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane    | 10.636 | 75   | 56524    | 16.380 | ug/l # | 42     |
| 81) trans-1,4-Dichloro-2-b... | 10.636 | 75   | 56524    | 53.440 | ug/l # | 12     |
| 95) Naphthalene               | 14.086 | 128  | 45       | 1.034  | ug/l # | 69     |

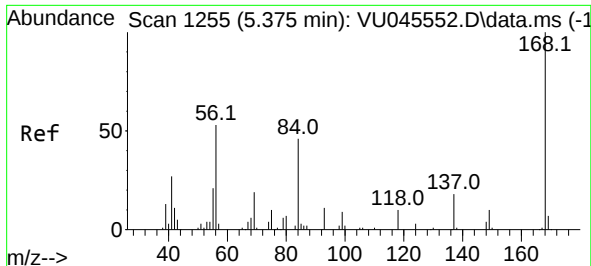
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Nov 15 05:21:41 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U110521W.M  
Quant Title : SW846 8260  
QLast Update : Fri Nov 05 13:35:16 2021  
Response via : Initial Calibration

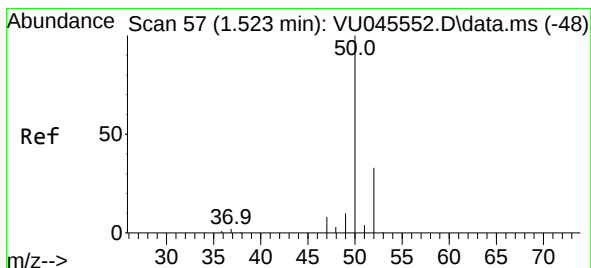
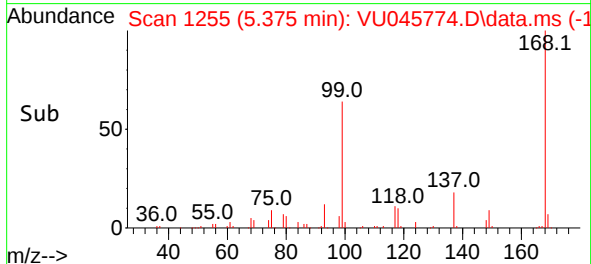
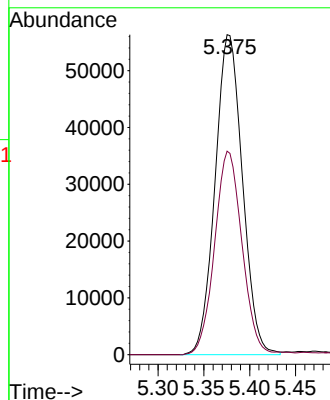
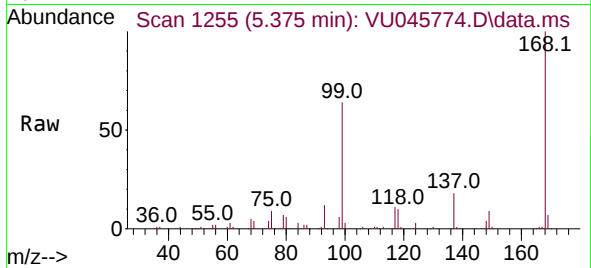




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.375 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU045774.D  
Acq: 12 Nov 2021 17:07

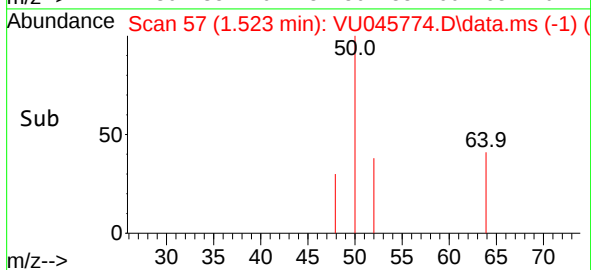
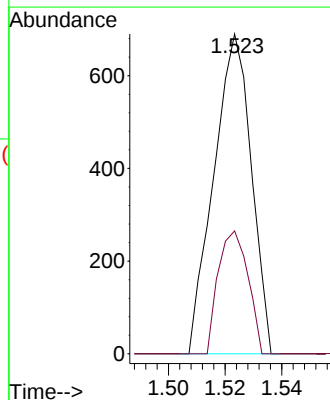
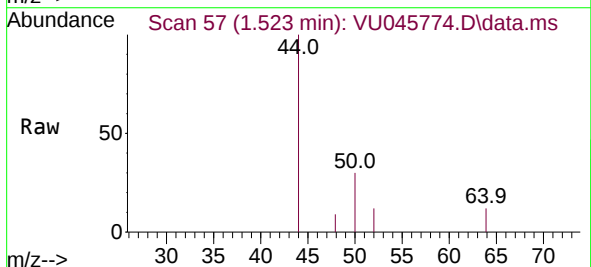
Instrument :  
MSVOA\_U  
ClientSampleId :

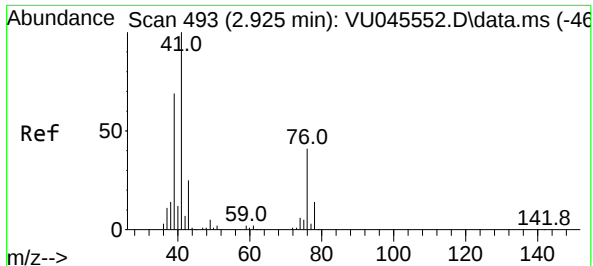
Tgt Ion:168 Resp: 117022  
Ion Ratio Lower Upper  
168 100  
99 63.6 51.0 76.6



#3  
Chloromethane  
Concen: 0.365 ug/l  
RT: 1.523 min Scan# 57  
Delta R.T. -0.000 min  
Lab File: VU045774.D  
Acq: 12 Nov 2021 17:07

Tgt Ion: 50 Resp: 634  
Ion Ratio Lower Upper  
50 100  
52 38.4 26.6 40.0





#14

Allyl chloride

Concen: 0.261 ug/l

RT: 2.758 min Scan# 441

Delta R.T. -0.167 min

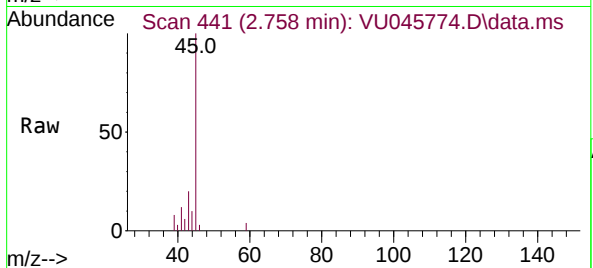
Lab File: VU045774.D

Acq: 12 Nov 2021 17:07

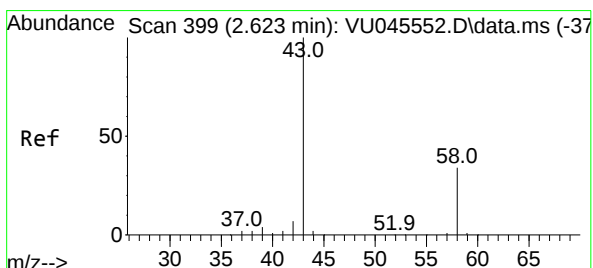
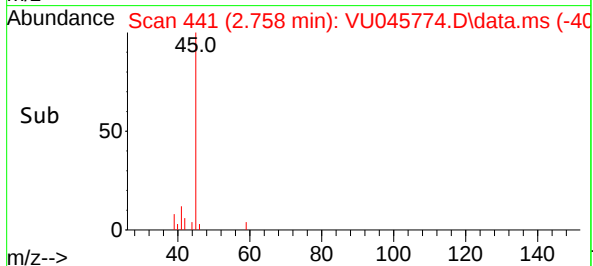
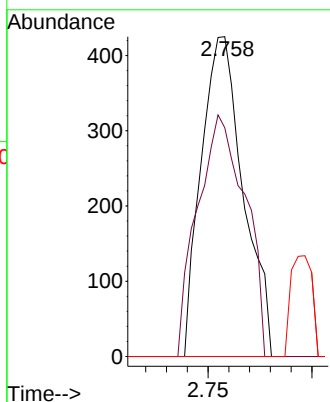
Instrument :

MSVOA\_U

ClientSampleId :



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 41    | Resp: | 599   |
| Ion      | Ratio | Lower | Upper |
| 41       | 100   |       |       |
| 39       | 85.5  | 49.7  | 74.5# |
| 76       | 0.0   | 27.7  | 41.5# |



#16

Acetone

Concen: 1.818 ug/l

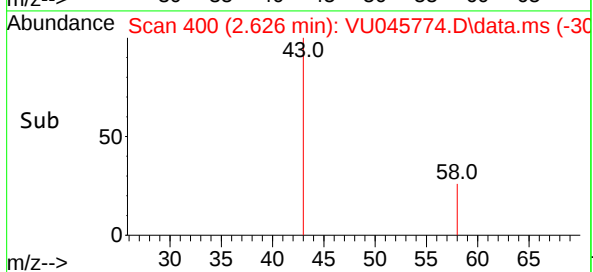
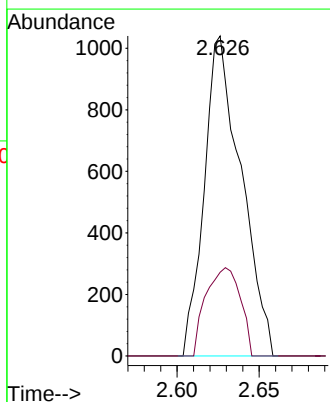
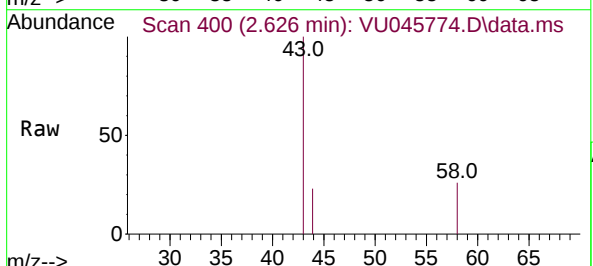
RT: 2.626 min Scan# 400

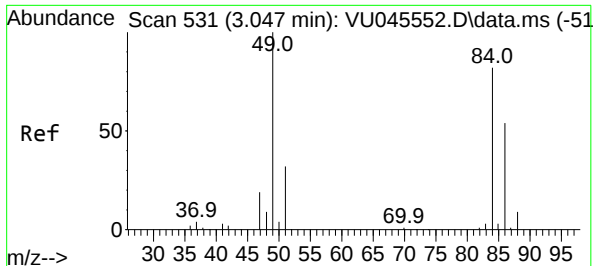
Delta R.T. 0.003 min

Lab File: VU045774.D

Acq: 12 Nov 2021 17:07

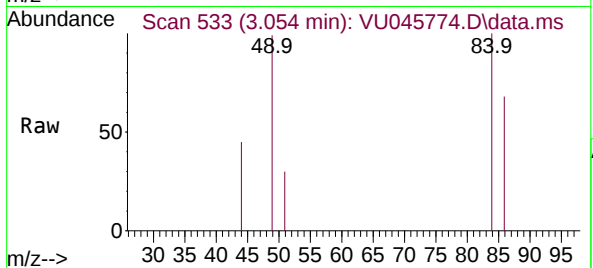
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1622  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 26.2  | 26.2  | 39.2# |



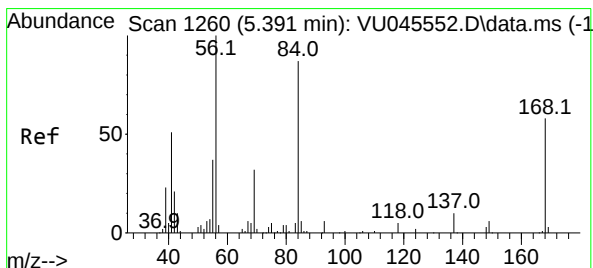
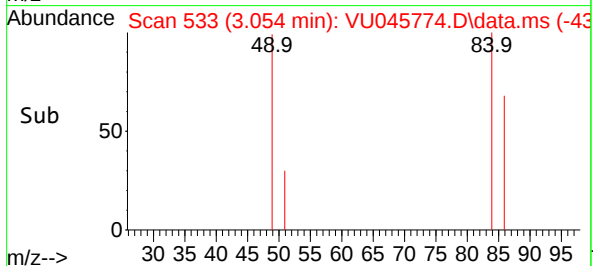
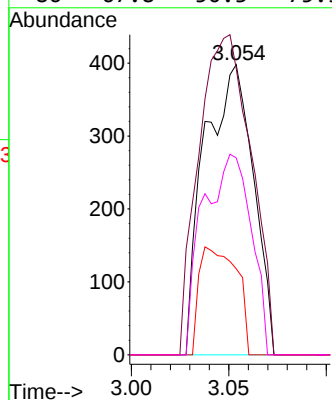


#20  
Methylene Chloride  
Concen: 0.446 ug/l  
RT: 3.054 min Scan# 51  
Delta R.T. 0.006 min  
Lab File: VU045774.D  
Acq: 12 Nov 2021 17:07

Instrument :  
MSVOA\_U  
ClientSampleId :

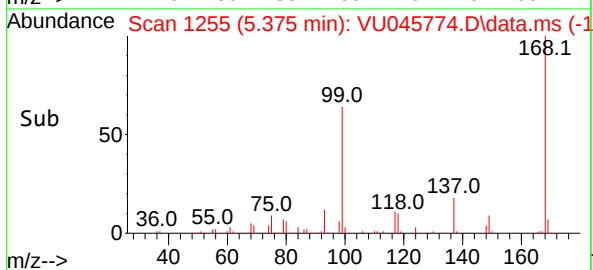
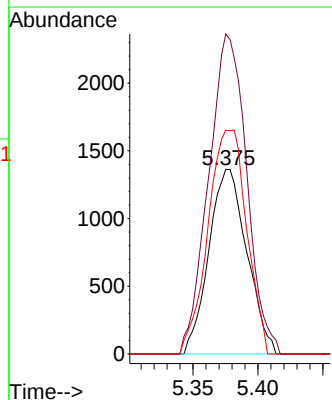
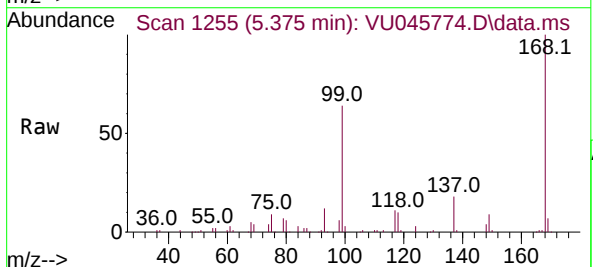


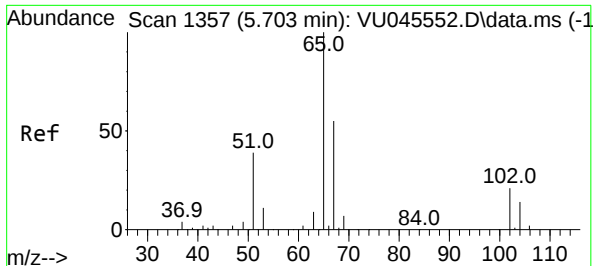
|             |             |
|-------------|-------------|
| Tgt Ion: 84 | Resp: 691   |
| Ion Ratio   | Lower Upper |
| 84 100      |             |
| 49 98.7     | 96.4 144.6  |
| 51 29.6     | 30.5 45.7#  |
| 86 67.8     | 50.3 75.5   |



#31  
Cyclohexane  
Concen: 1.083 ug/l  
RT: 5.375 min Scan# 1255  
Delta R.T. -0.016 min  
Lab File: VU045774.D  
Acq: 12 Nov 2021 17:07

|             |            |       |        |
|-------------|------------|-------|--------|
| Tgt Ion: 56 | Resp: 2770 |       |        |
| Ion Ratio   | Lower      | Upper |        |
| 56          | 100        |       |        |
| 69          | 173.4      | 26.4  | 39.6#  |
| 84          | 121.2      | 68.4  | 102.6# |





#33

1,2-Dichloroethane-d4

Concen: 55.778 ug/l

RT: 5.703 min Scan# 11

Delta R.T. 0.000 min

Lab File: VU045774.D

Acq: 12 Nov 2021 17:07

Instrument :

MSVOA\_U

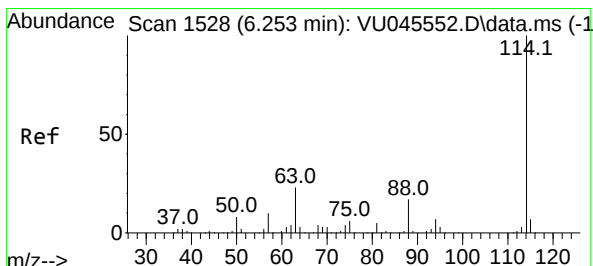
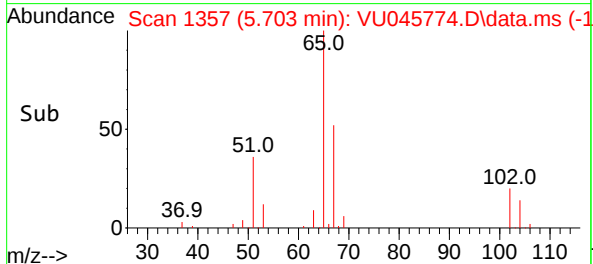
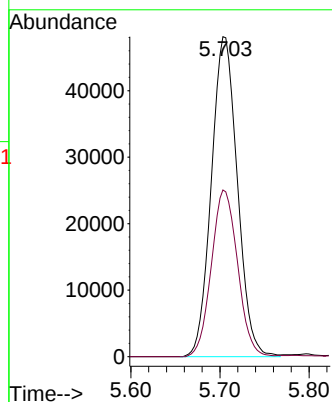
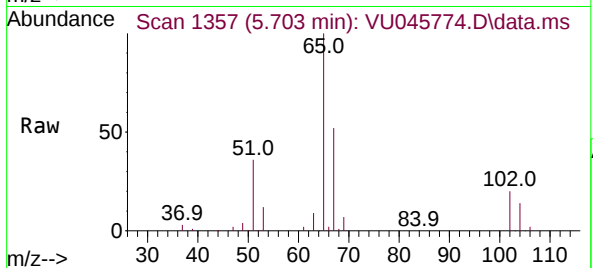
ClientSampleId :

Tgt Ion: 65 Resp: 97753

Ion Ratio Lower Upper

65 100

67 52.4 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 1528

Delta R.T. 0.000 min

Lab File: VU045774.D

Acq: 12 Nov 2021 17:07

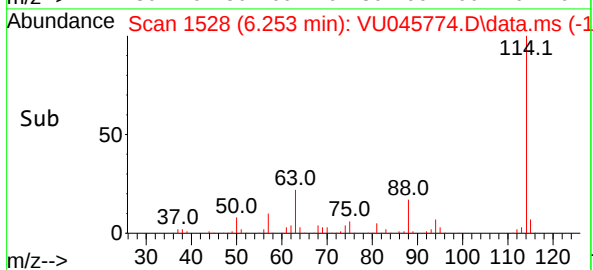
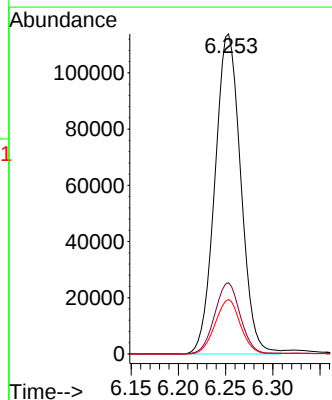
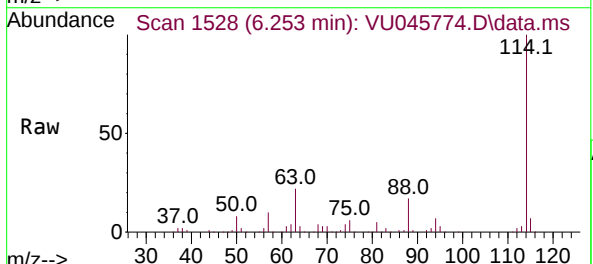
Tgt Ion: 114 Resp: 216606

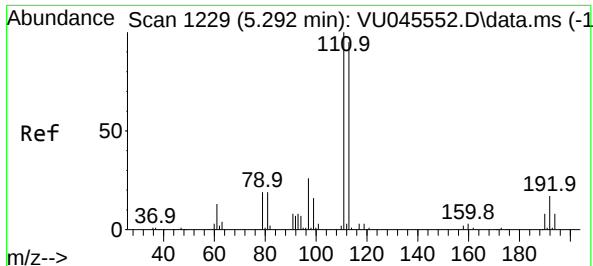
Ion Ratio Lower Upper

114 100

63 22.2 0.0 45.6

88 17.0 0.0 33.8





#35

Dibromofluoromethane

Concen: 52.244 ug/l

RT: 5.292 min Scan# 11

Delta R.T. -0.000 min

Lab File: VU045774.D

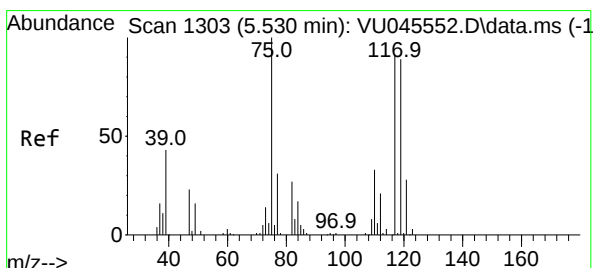
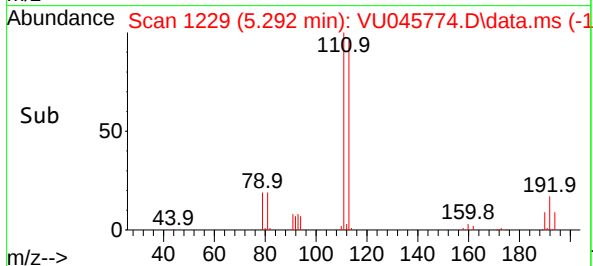
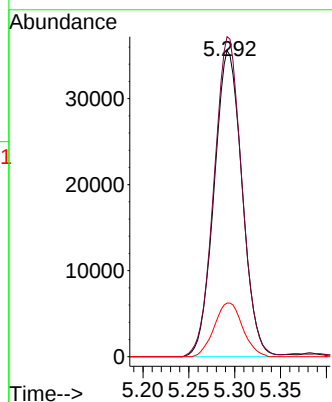
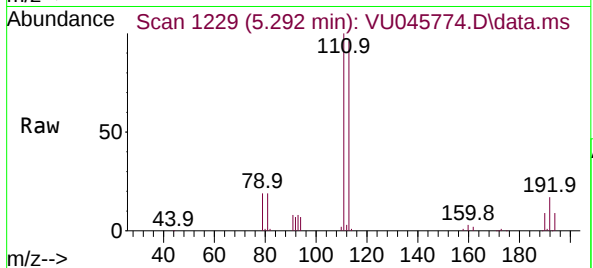
Acq: 12 Nov 2021 17:07

Instrument :

MSVOA\_U

ClientSampleId :

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 113   | Resp: | 75554 |
| Ion      | Ratio | Lower | Upper |
| 113      | 100   |       |       |
| 111      | 103.6 | 82.8  | 124.2 |
| 192      | 17.8  | 14.8  | 22.2  |



#36

1,1-Dichloropropene

Concen: 4.845 ug/l

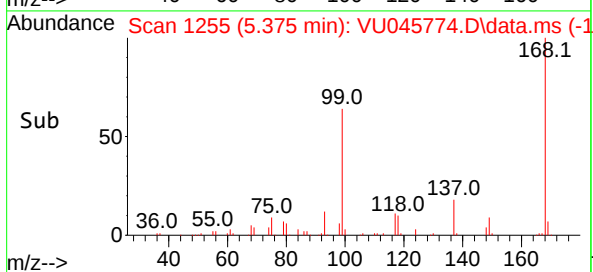
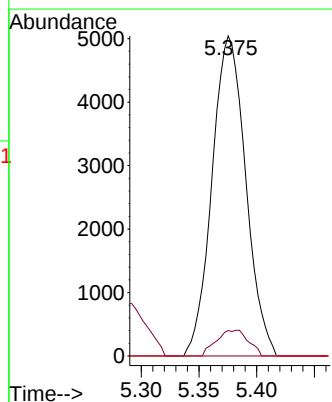
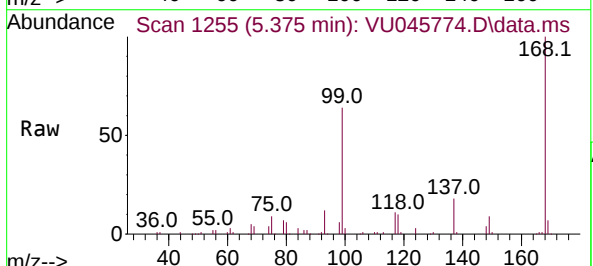
RT: 5.375 min Scan# 1255

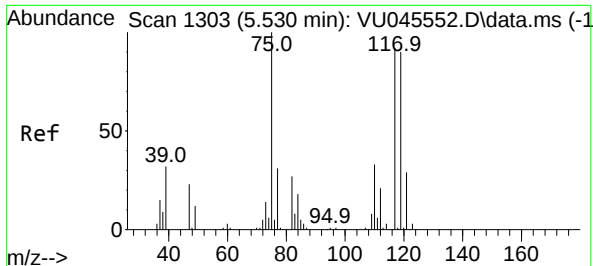
Delta R.T. -0.154 min

Lab File: VU045774.D

Acq: 12 Nov 2021 17:07

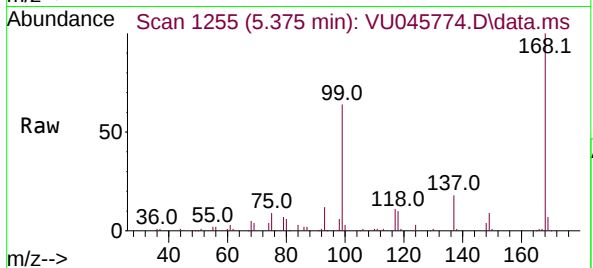
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 75    | Resp: | 10233 |
| Ion      | Ratio | Lower | Upper |
| 75       | 100   |       |       |
| 110      | 7.6   | 16.7  | 50.0# |
| 77       | 0.0   | 25.0  | 37.4# |



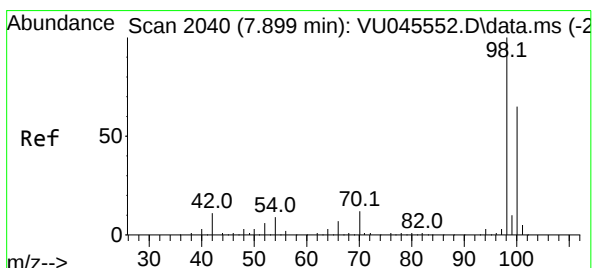
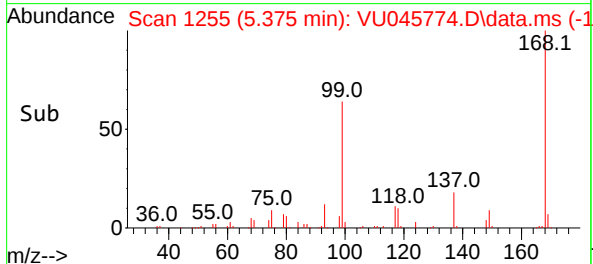
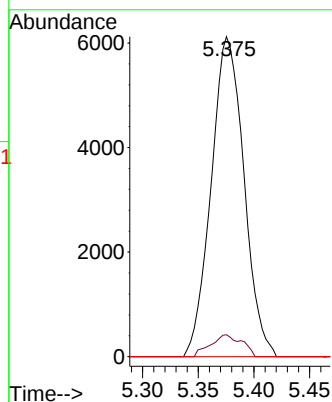


#38  
Carbon Tetrachloride  
Concen: 5.880 ug/l  
RT: 5.375 min Scan# 117  
Delta R.T. -0.154 min  
Lab File: VU045774.D  
Acq: 12 Nov 2021 17:07

Instrument :  
MSVOA\_U  
ClientSampleId :

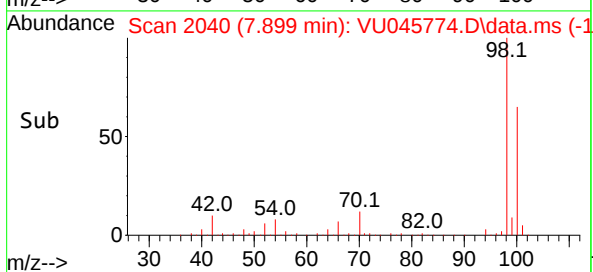
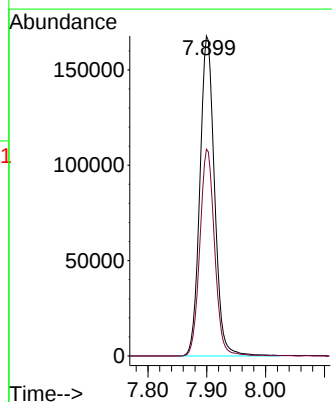
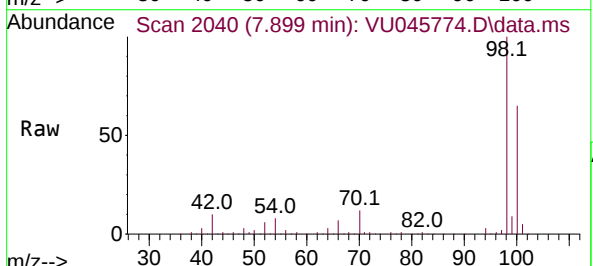


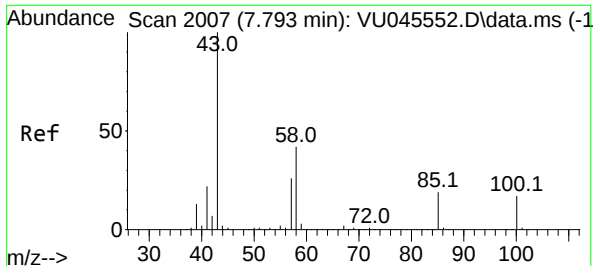
Tgt Ion:117 Resp: 12520  
Ion Ratio Lower Upper  
117 100  
119 6.8 77.4 116.0#  
121 0.0 24.8 37.2#



#50  
Toluene-d8  
Concen: 53.977 ug/l  
RT: 7.899 min Scan# 2040  
Delta R.T. -0.000 min  
Lab File: VU045774.D  
Acq: 12 Nov 2021 17:07

Tgt Ion: 98 Resp: 290263  
Ion Ratio Lower Upper  
98 100  
100 65.0 52.5 78.7





#51

4-Methyl-2-Pentanone

Concen: 0.423 ug/l

RT: 7.899 min Scan# 2007

Delta R.T. 0.106 min

Lab File: VU045774.D

Acq: 12 Nov 2021 17:07

Instrument :

MSVOA\_U

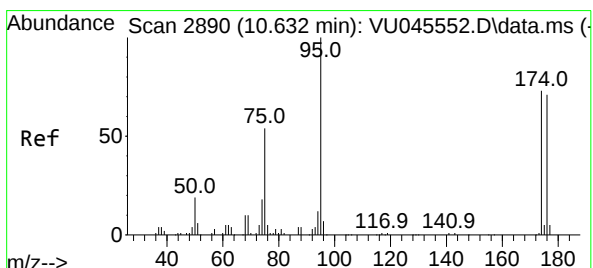
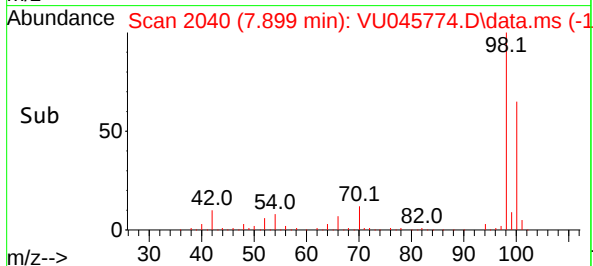
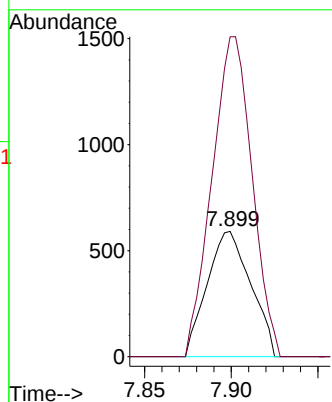
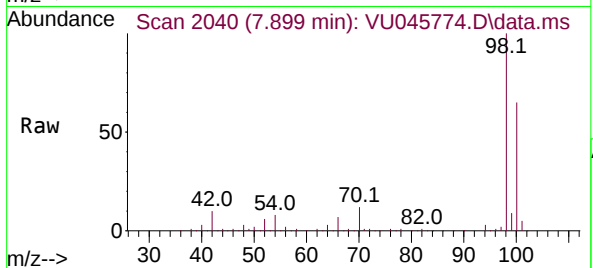
ClientSampleId :

Tgt Ion: 43 Resp: 1035

Ion Ratio Lower Upper

43 100

58 234.7 33.8 50.8#



#62

4-Bromofluorobenzene

Concen: 51.151 ug/l

RT: 10.636 min Scan# 2891

Delta R.T. 0.003 min

Lab File: VU045774.D

Acq: 12 Nov 2021 17:07

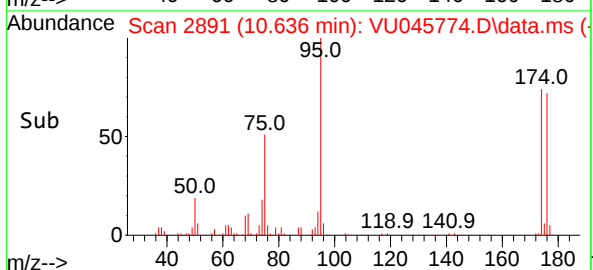
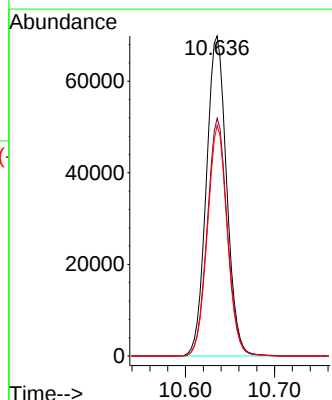
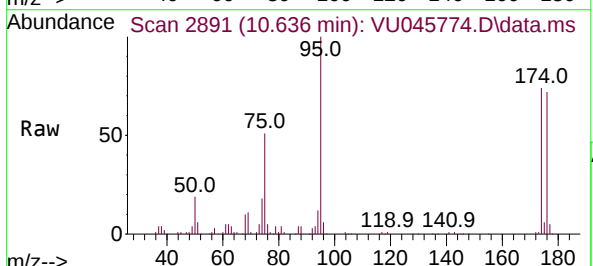
Tgt Ion: 95 Resp: 110300

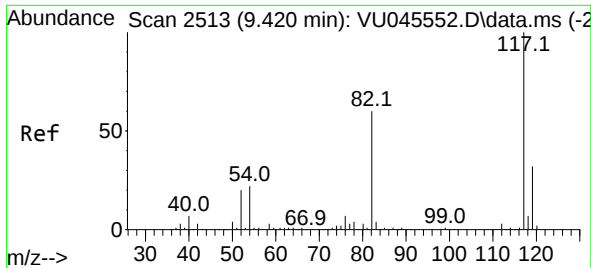
Ion Ratio Lower Upper

95 100

174 73.8 0.0 141.8

176 70.4 0.0 138.2

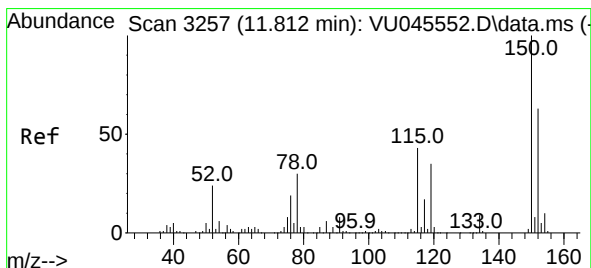
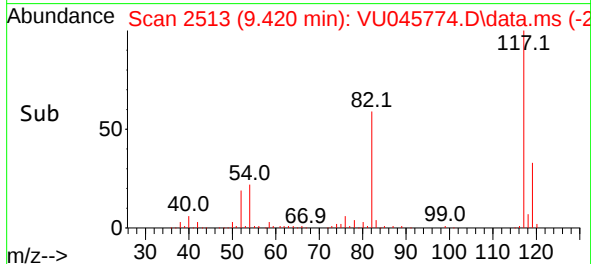
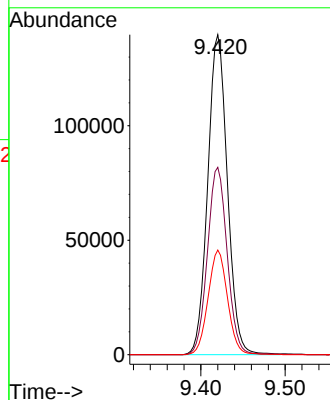
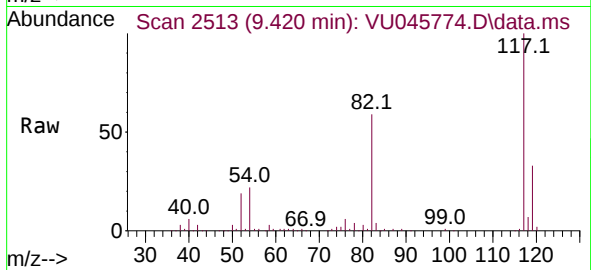




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.420 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VU045774.D  
Acq: 12 Nov 2021 17:07

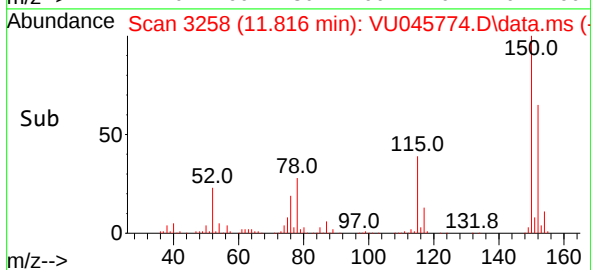
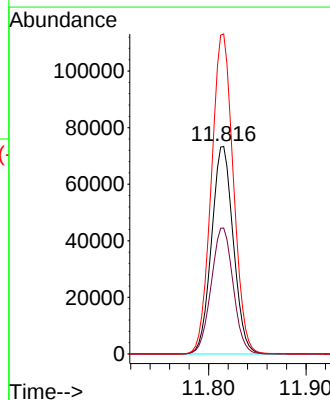
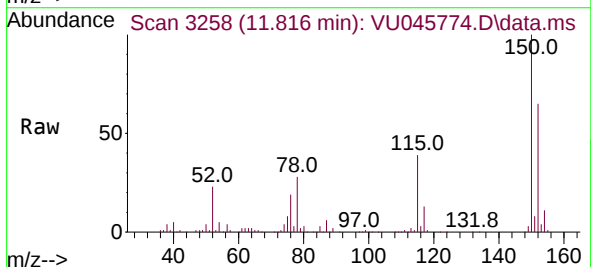
Instrument :  
MSVOA\_U  
ClientSampleId :

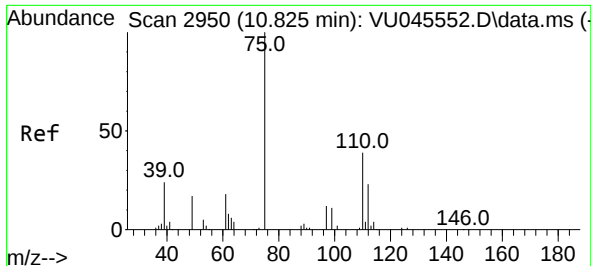
Tgt Ion:117 Resp: 227004  
Ion Ratio Lower Upper  
117 100  
82 58.5 47.8 71.8  
119 32.7 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.816 min Scan# 3258  
Delta R.T. 0.003 min  
Lab File: VU045774.D  
Acq: 12 Nov 2021 17:07

Tgt Ion:152 Resp: 113792  
Ion Ratio Lower Upper  
152 100  
115 61.3 42.7 128.1  
150 156.0 0.0 346.8

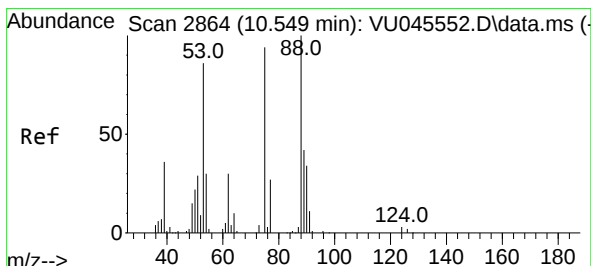
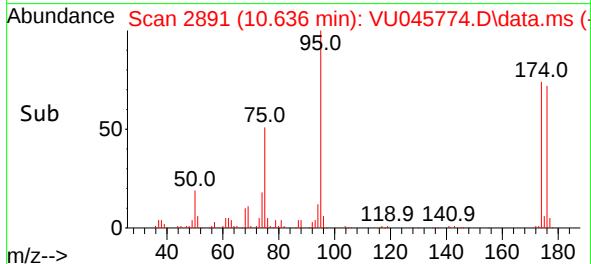
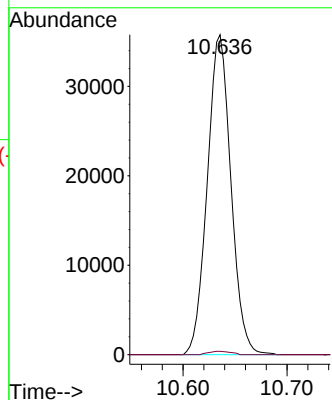
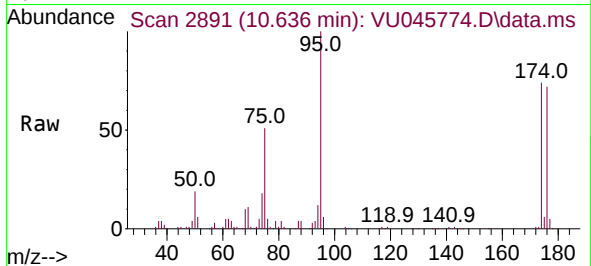




#76  
1,2,3-Trichloropropane  
Concen: 16.380 ug/l  
RT: 10.636 min Scan# 2891  
Delta R.T. -0.190 min  
Lab File: VU045774.D  
Acq: 12 Nov 2021 17:07

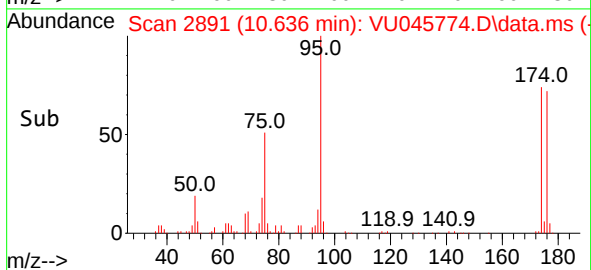
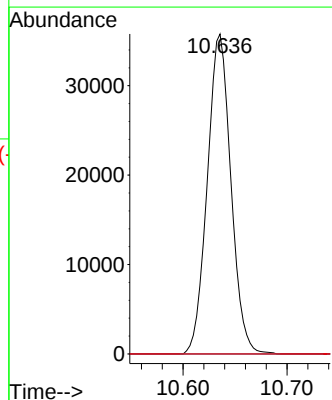
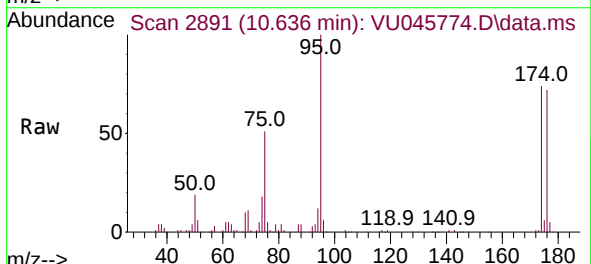
Instrument :  
MSVOA\_U  
ClientSampleId :

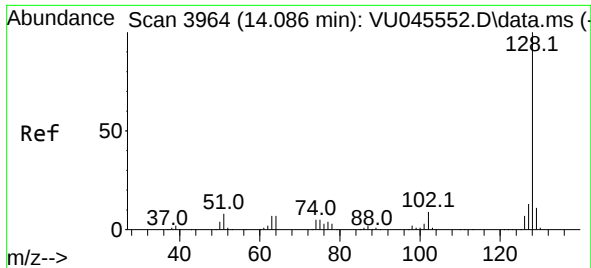
Tgt Ion: 75 Resp: 56524  
Ion Ratio Lower Upper  
75 100  
77 1.0 17.1 51.3#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 53.440 ug/l  
RT: 10.636 min Scan# 2891  
Delta R.T. 0.087 min  
Lab File: VU045774.D  
Acq: 12 Nov 2021 17:07

Tgt Ion: 75 Resp: 56524  
Ion Ratio Lower Upper  
75 100  
53 0.0 76.2 114.4#  
89 0.0 34.0 51.0#





#95

Naphthalene

Concen: 1.034 ug/l

RT: 14.086 min Scan# 3964

Delta R.T. -0.000 min

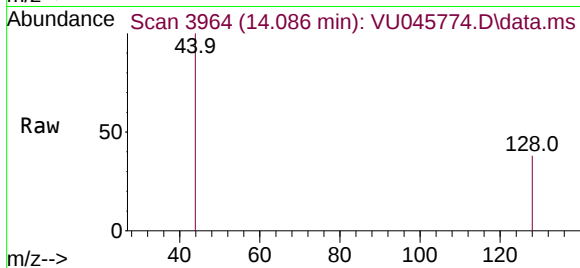
Lab File: VU045774.D

Acq: 12 Nov 2021 17:07

Instrument :

MSVOA\_U

ClientSampleId :



Tgt Ion:128 Resp: 45

Ion Ratio Lower Upper

128 100

127 0.0 10.6 15.8#

129 0.0 8.6 13.0#

