

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU092721\  
 Data File : VU044918.D  
 Acq On : 28 Sep 2021 03:51  
 Operator : SY/MD  
 Sample : M3829-13DL 10X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 38 Sample Multiplier: 1

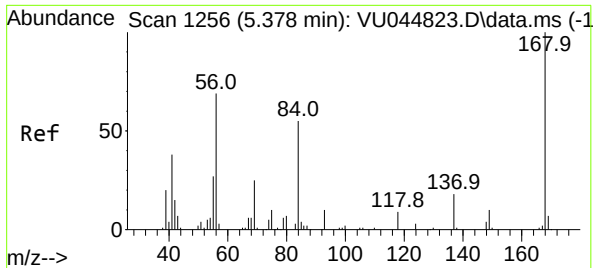
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RE120D1-20210917DL

Quant Time: Sep 28 06:31:52 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U092421W.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Sep 25 09:30:46 2021  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc      | Units   | Dev(Min) |
|-------------------------------|--------|------|----------|-----------|---------|----------|
| -----                         |        |      |          |           |         |          |
| Internal Standards            |        |      |          |           |         |          |
| 1) Pentafluorobenzene         | 5.376  | 168  | 199273   | 50.000    | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene       | 6.253  | 114  | 345835   | 50.000    | ug/l    | 0.00     |
| 63) Chlorobenzene-d5          | 9.420  | 117  | 313567   | 50.000    | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.816 | 152  | 145241   | 50.000    | ug/l    | 0.00     |
|                               |        |      |          |           |         |          |
| System Monitoring Compounds   |        |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4     | 5.707  | 65   | 155889   | 44.823    | ug/l    | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =         | 89.640% |          |
| 35) Dibromofluoromethane      | 5.292  | 113  | 107363   | 45.253    | ug/l    | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =         | 90.500% |          |
| 50) Toluene-d8                | 7.900  | 98   | 433089   | 48.334    | ug/l    | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =         | 96.660% |          |
| 62) 4-Bromofluorobenzene      | 10.636 | 95   | 159704   | 47.987    | ug/l    | 0.00     |
| Spiked Amount 50.000          |        |      | Recovery | =         | 95.980% |          |
|                               |        |      |          |           |         |          |
| Target Compounds              |        |      |          |           |         | Qvalue   |
| 5) Bromomethane               | 1.839  | 94   | 390      | Below Cal |         | 96       |
| 6) Chloroethane               | 1.926  | 64   | 400      | Below Cal | #       | 42       |
| 9) 1,1,2-Trichlorotrifluo...  | 2.578  | 101  | 2233     | 0.921     | ug/l    | 93       |
| 11) Tert butyl alcohol        | 3.186  | 59   | 2997     | 2.952     | ug/l #  | 72       |
| 12) 1,1-Dichloroethene        | 2.578  | 96   | 1275     | 0.531     | ug/l    | 88       |
| 16) Acetone                   | 2.636  | 43   | 803      | 0.409     | ug/l #  | 43       |
| 20) Methylene Chloride        | 3.045  | 84   | 951      | 0.299     | ug/l #  | 88       |
| 27) cis-1,2-Dichloroethene    | 4.675  | 96   | 767      | 0.245     | ug/l    | 86       |
| 31) Cyclohexane               | 5.376  | 56   | 5087     | 1.019     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene       | 5.376  | 75   | 18436    | 5.024     | ug/l #  | 49       |
| 38) Carbon Tetrachloride      | 5.376  | 117  | 20720    | 6.316     | ug/l #  | 15       |
| 39) Methylcyclohexane         | 6.543  | 83   | 2123     | 0.512     | ug/l #  | 1        |
| 44) Trichloroethene           | 6.546  | 130  | 162814   | 60.554    | ug/l    | 98       |
| 45) 1,2-Dichloropropane       | 6.543  | 63   | 745      | 0.246     | ug/l #  | 1        |
| 51) 4-Methyl-2-Pentanone      | 7.900  | 43   | 1999     | 0.372     | ug/l #  | 1        |
| 60) Dibromochloromethane      | 8.559  | 129  | 887      | 0.324     | ug/l #  | 10       |
| 64) Tetrachloroethene         | 8.556  | 164  | 863      | 0.406     | ug/l    | 97       |
| 76) 1,2,3-Trichloropropane    | 10.636 | 75   | 84272    | 19.161    | ug/l #  | 41       |
| 81) trans-1,4-Dichloro-2-b... | 10.636 | 75   | 84272    | 62.071    | ug/l #  | 9        |
| 95) Naphthalene               | 14.096 | 128  | 512      | 0.988     | ug/l #  | 69       |
| -----                         |        |      |          |           |         |          |

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

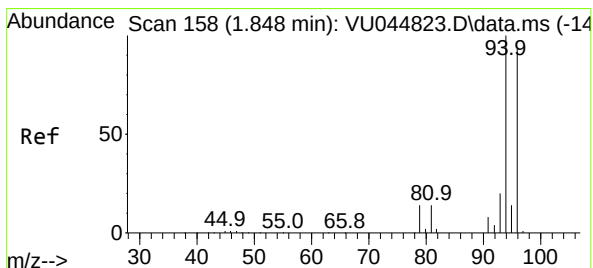
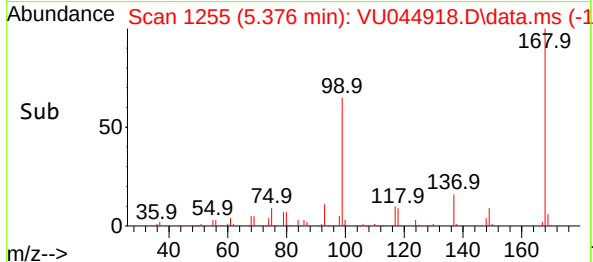
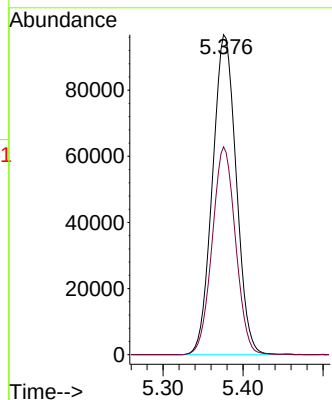
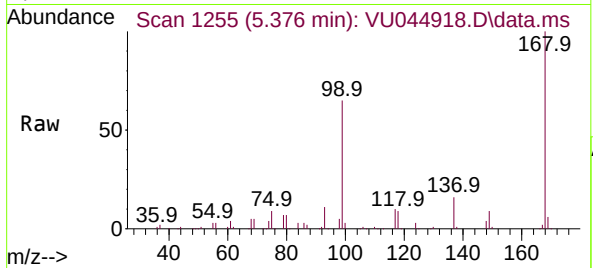




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.376 min Scan# 1255  
Delta R.T. -0.002 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

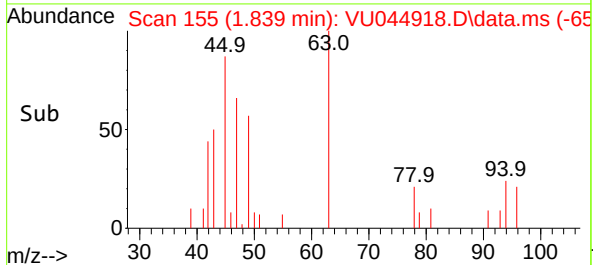
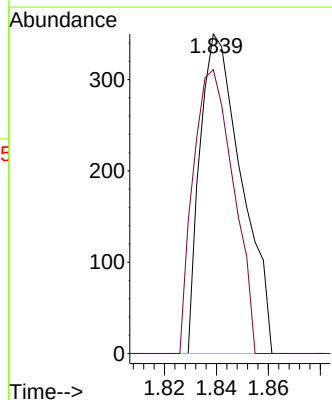
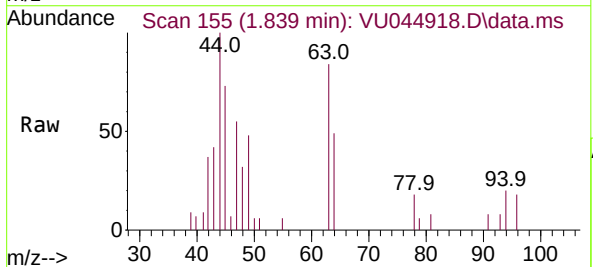
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE120D1-20210917DL

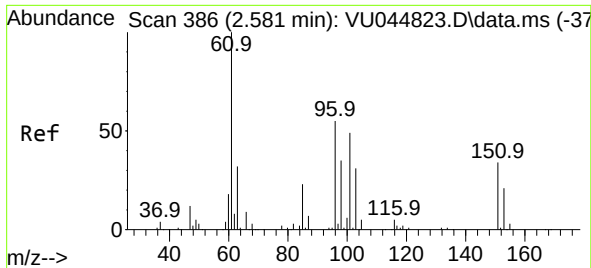
Tgt Ion:168 Resp: 199273  
Ion Ratio Lower Upper  
168 100  
99 64.9 51.4 77.0



#5  
Bromomethane  
Concen: Below Cal  
RT: 1.839 min Scan# 155  
Delta R.T. -0.009 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

Tgt Ion: 94 Resp: 390  
Ion Ratio Lower Upper  
94 100  
96 88.9 74.5 111.7

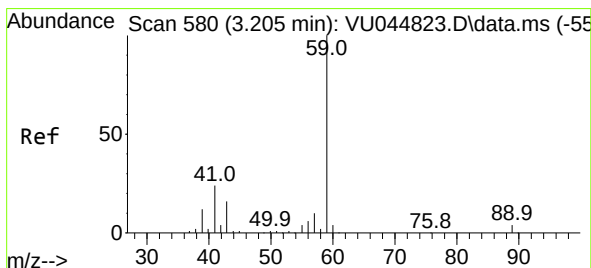
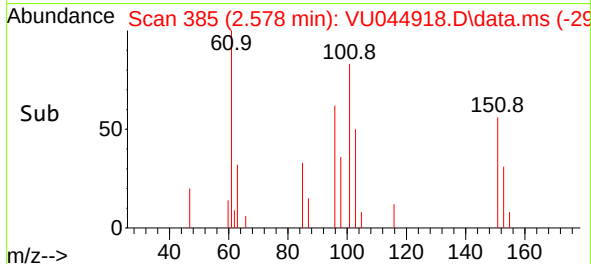
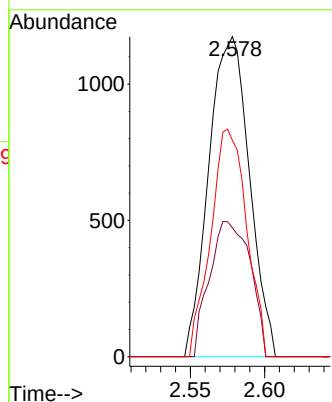
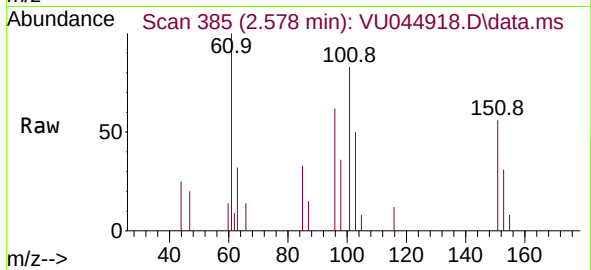




#9  
1,1,2-Trichlorotrifluoroethane  
Concen: 0.921 ug/l  
RT: 2.578 min Scan# 385  
Delta R.T. -0.003 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

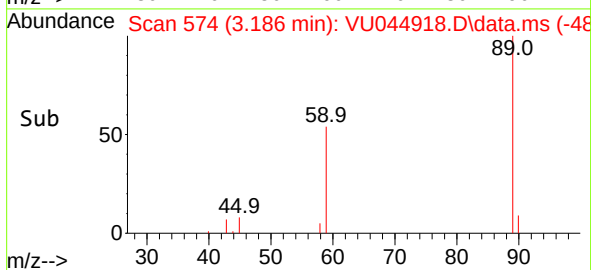
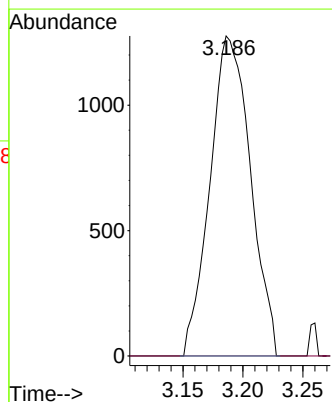
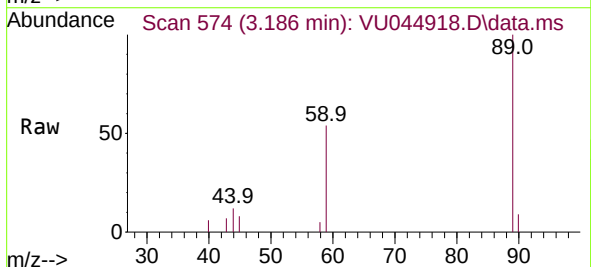
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE120D1-20210917DL

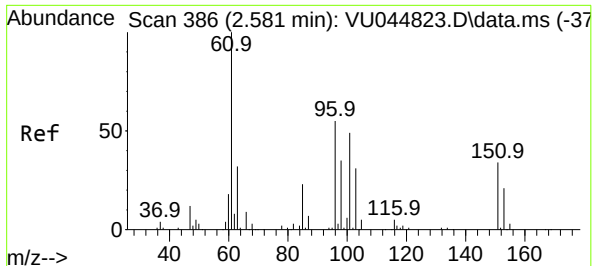
Tgt Ion:101 Resp: 2233  
Ion Ratio Lower Upper  
101 100  
85 42.5 37.2 55.8  
151 63.0 55.8 83.8



#11  
Tert butyl alcohol  
Concen: 2.952 ug/l  
RT: 3.186 min Scan# 574  
Delta R.T. -0.019 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

Tgt Ion: 59 Resp: 2997  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.3 12.5#

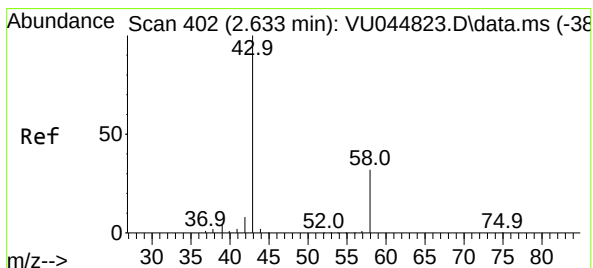
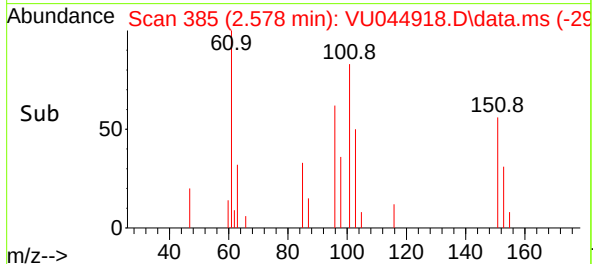
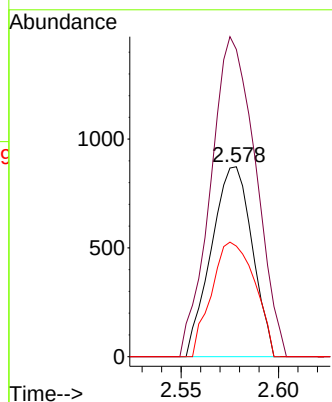
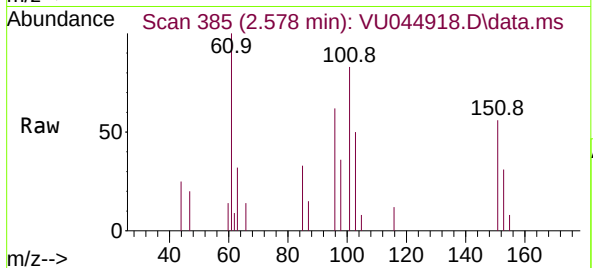




#12  
1,1-Dichloroethene  
Concen: 0.531 ug/l  
RT: 2.578 min Scan# 385  
Delta R.T. -0.003 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

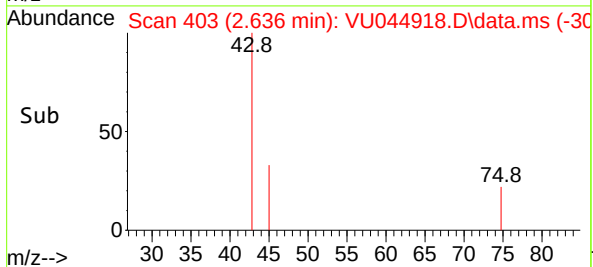
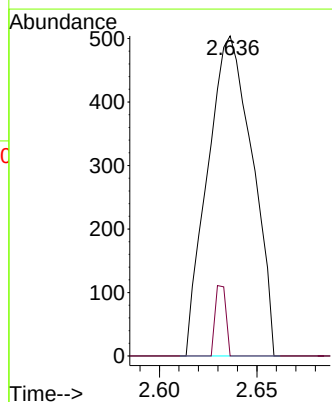
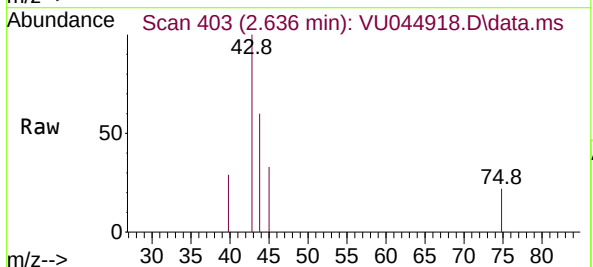
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE120D1-20210917DL

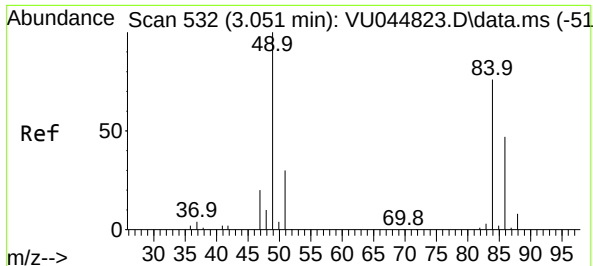
Tgt Ion: 96 Resp: 1275  
Ion Ratio Lower Upper  
96 100  
61 161.7 145.4 218.0  
98 58.2 50.9 76.3



#16  
Acetone  
Concen: 0.409 ug/l  
RT: 2.636 min Scan# 403  
Delta R.T. 0.004 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

Tgt Ion: 43 Resp: 803  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.2 37.8#



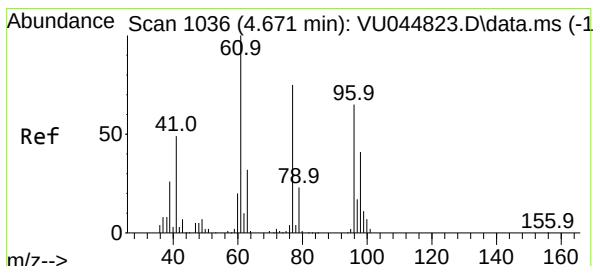
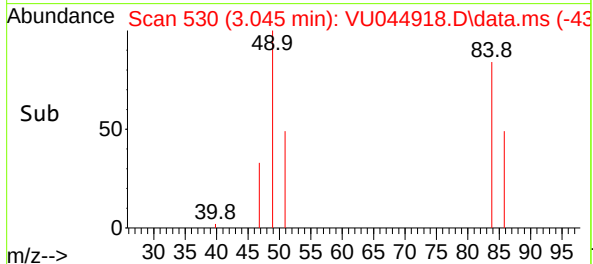
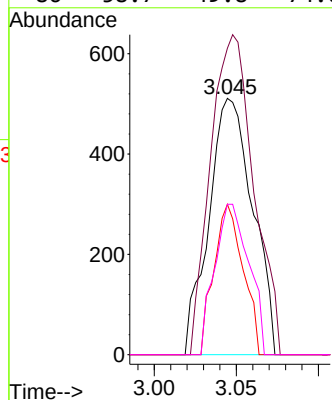
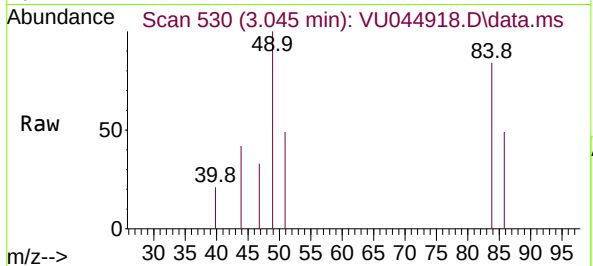


#20  
Methylene Chloride  
Concen: 0.299 ug/l  
RT: 3.045 min Scan# 530  
Delta R.T. -0.006 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

Instrument :  
MSVOA\_U  
ClientSampleId :  
RE120D1-20210917DL

Tgt Ion: 84 Resp: 951

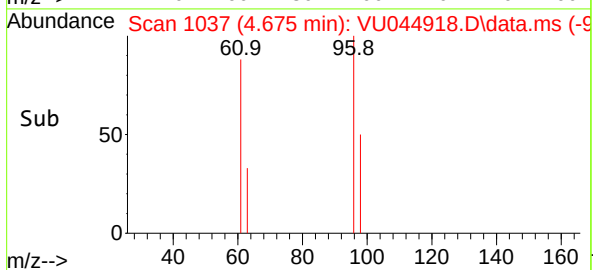
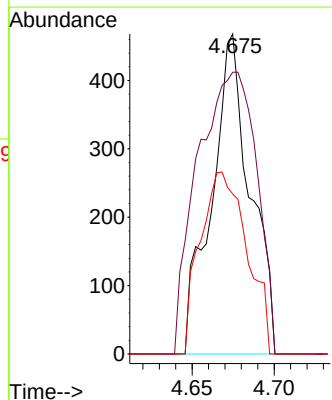
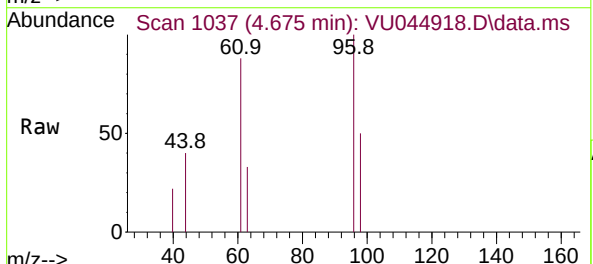
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 119.6 | 104.9 | 157.3 |
| 51  | 58.7  | 31.8  | 47.8# |
| 86  | 58.7  | 49.8  | 74.6  |

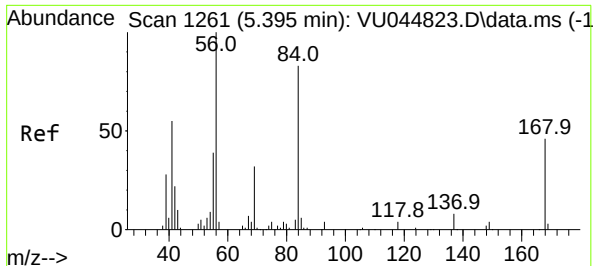


#27  
cis-1,2-Dichloroethene  
Concen: 0.245 ug/l  
RT: 4.675 min Scan# 1037  
Delta R.T. 0.004 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

Tgt Ion: 96 Resp: 767

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 96  | 100   |       |       |
| 61  | 134.3 | 0.0   | 313.4 |
| 98  | 68.7  | 0.0   | 127.0 |





#31

Cyclohexane

Concen: 1.019 ug/l

RT: 5.376 min Scan# 1255

Delta R.T. -0.019 min

Lab File: VU044918.D

Acq: 28 Sep 2021 03:51

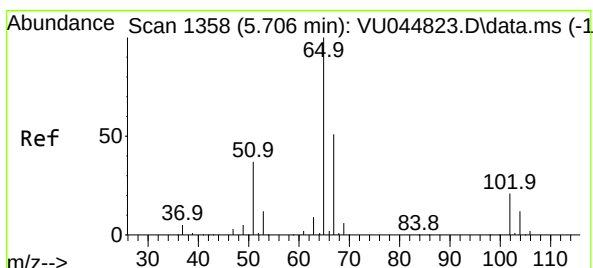
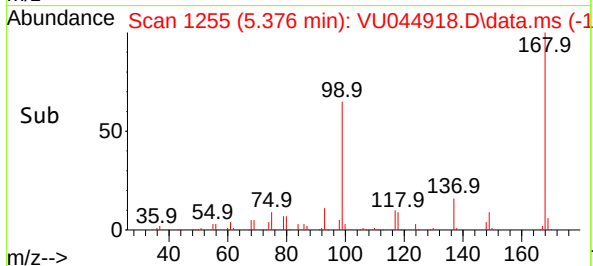
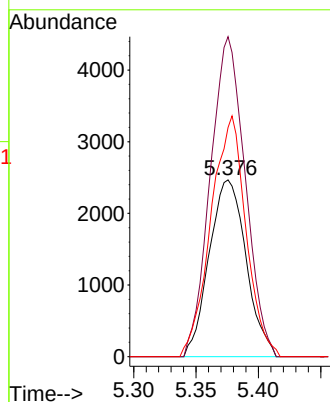
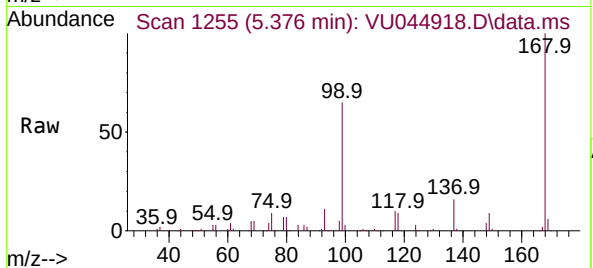
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 5087  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 181.0 | 25.2  | 37.8# |
| 84       | 129.6 | 66.4  | 99.6# |

Instrument :

MSVOA\_U

ClientSampleId :

RE120D1-20210917DL



#33

1,2-Dichloroethane-d4

Concen: 44.823 ug/l

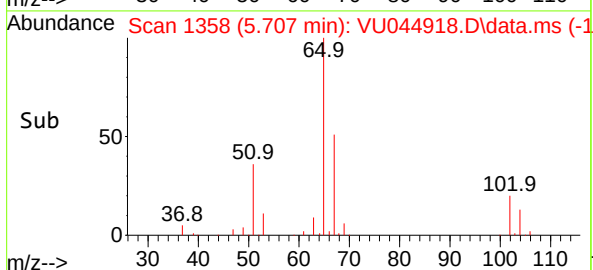
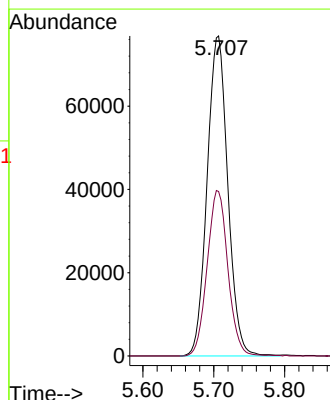
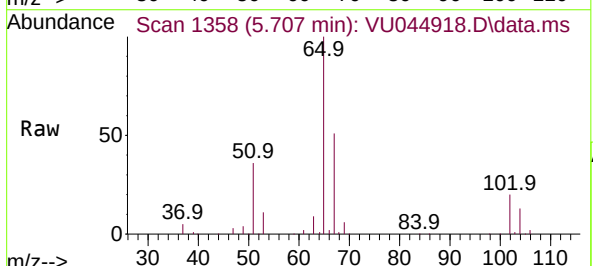
RT: 5.707 min Scan# 1358

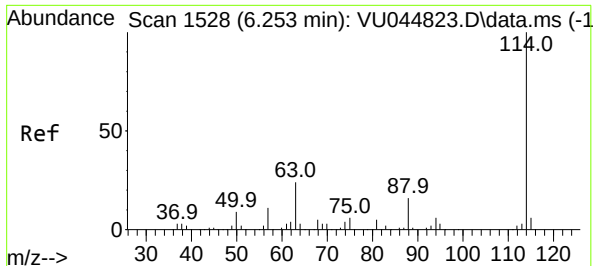
Delta R.T. 0.000 min

Lab File: VU044918.D

Acq: 28 Sep 2021 03:51

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 65    | Resp: | 155889 |
| Ion      | Ratio | Lower | Upper  |
| 65       | 100   |       |        |
| 67       | 51.8  | 0.0   | 104.8  |





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.253 min Scan# 1528

Delta R.T. 0.000 min

Lab File: VU044918.D

Acq: 28 Sep 2021 03:51

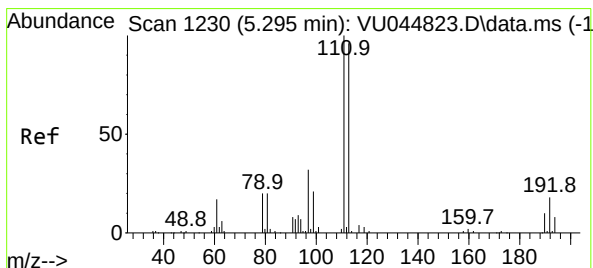
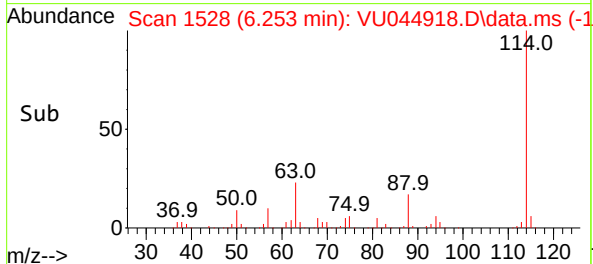
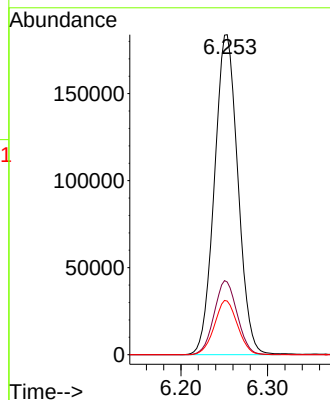
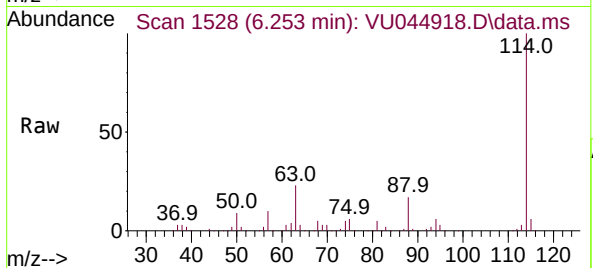
Tgt Ion:114 Resp: 345835

Ion Ratio Lower Upper

114 100

63 22.7 0.0 47.8

88 16.8 0.0 32.8



#35

Dibromofluoromethane

Concen: 45.253 ug/l

RT: 5.292 min Scan# 1229

Delta R.T. -0.003 min

Lab File: VU044918.D

Acq: 28 Sep 2021 03:51

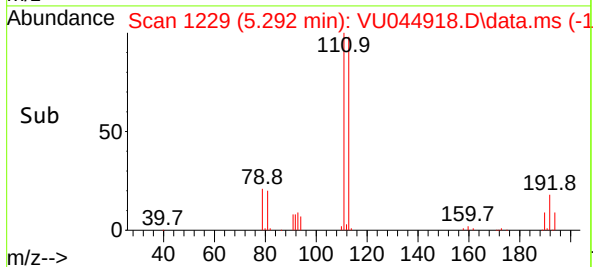
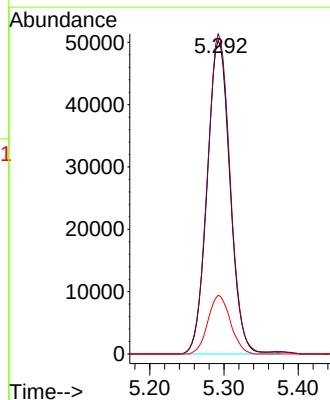
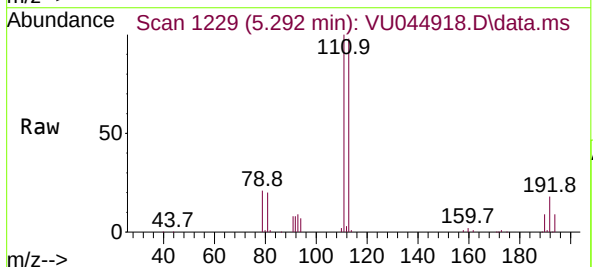
Tgt Ion:113 Resp: 107363

Ion Ratio Lower Upper

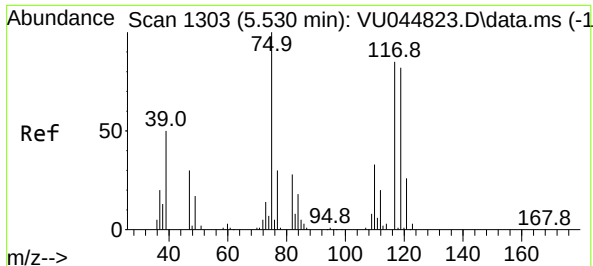
113 100

111 102.1 84.1 126.1

192 18.4 14.8 22.2







#36

1,1-Dichloropropene

Concen: 5.024 ug/l

RT: 5.376 min Scan# 1255

Delta R.T. -0.154 min

Lab File: VU044918.D

Acq: 28 Sep 2021 03:51

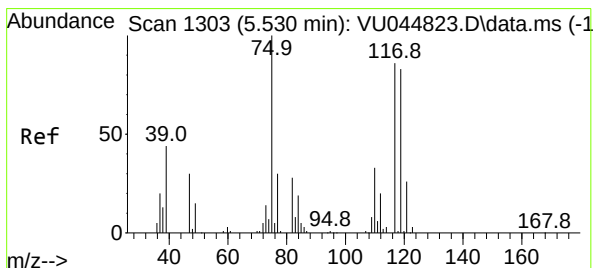
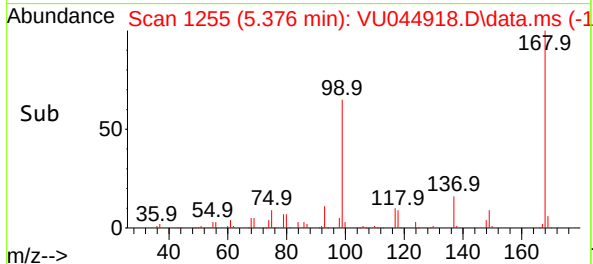
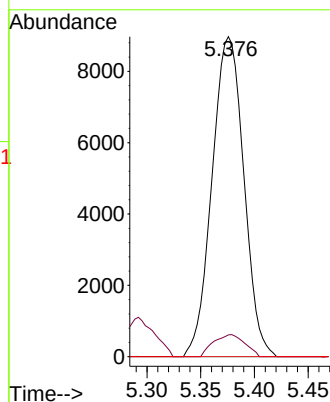
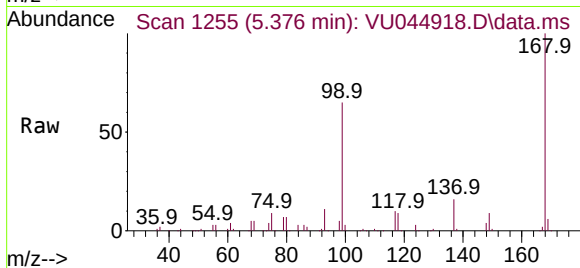
Instrument :

MSVOA\_U

ClientSampleId :

RE120D1-20210917DL

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 75    | Resp: | 18436 |
| Ion Ratio | Lower | Upper |       |
| 75        | 100   |       |       |
| 110       | 6.8   | 16.3  | 48.9# |
| 77        | 0.0   | 25.0  | 37.4# |



#38

Carbon Tetrachloride

Concen: 6.316 ug/l

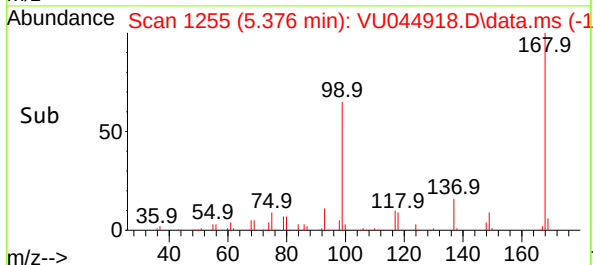
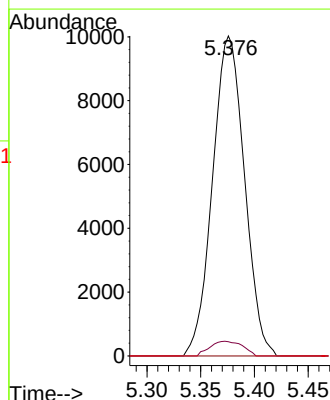
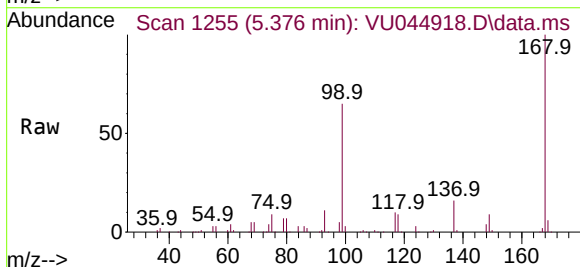
RT: 5.376 min Scan# 1255

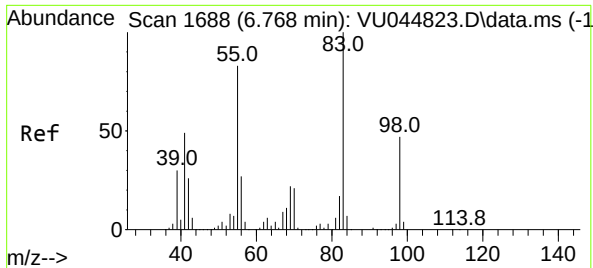
Delta R.T. -0.154 min

Lab File: VU044918.D

Acq: 28 Sep 2021 03:51

|           |       |       |        |
|-----------|-------|-------|--------|
| Tgt Ion:  | 117   | Resp: | 20720  |
| Ion Ratio | Lower | Upper |        |
| 117       | 100   |       |        |
| 119       | 4.4   | 77.4  | 116.2# |
| 121       | 0.0   | 24.5  | 36.7#  |

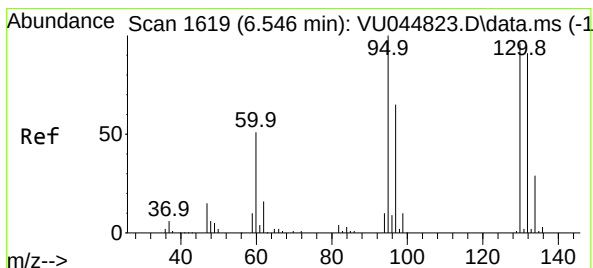
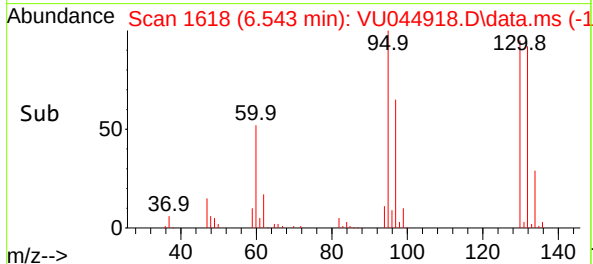
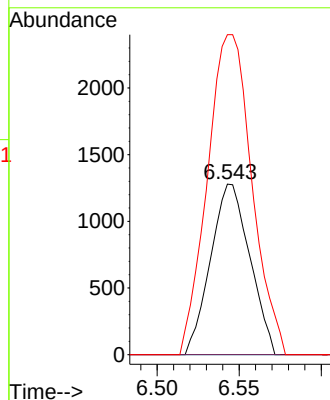
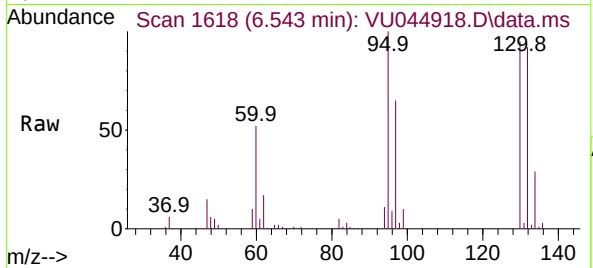




#39  
Methylcyclohexane  
Concen: 0.512 ug/l  
RT: 6.543 min Scan# 1618  
Delta R.T. -0.225 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

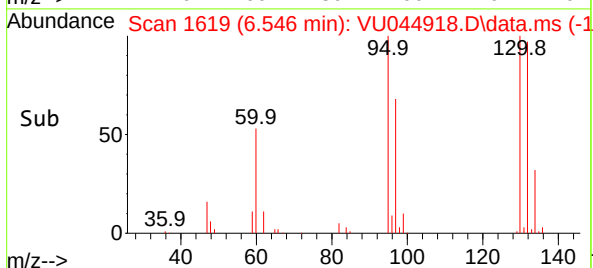
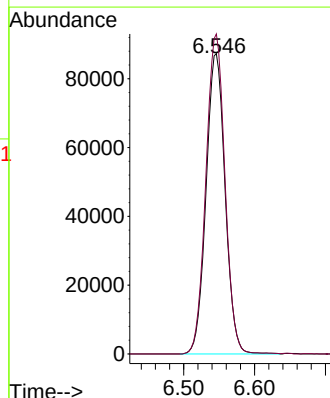
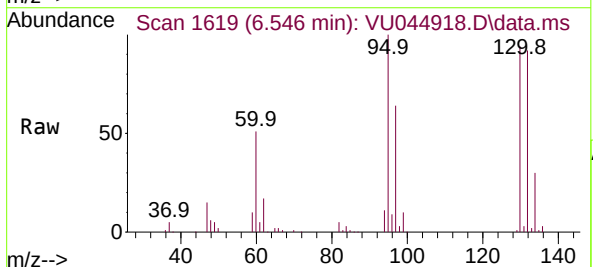
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE120D1-20210917DL

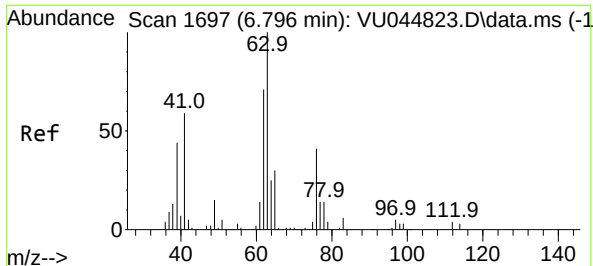
Tgt Ion: 83 Resp: 2123  
Ion Ratio Lower Upper  
83 100  
55 0.0 66.2 99.4#  
98 187.6 37.5 56.3#



#44  
Trichloroethene  
Concen: 60.554 ug/l  
RT: 6.546 min Scan# 1619  
Delta R.T. 0.000 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

Tgt Ion:130 Resp: 162814  
Ion Ratio Lower Upper  
130 100  
95 106.5 0.0 209.0



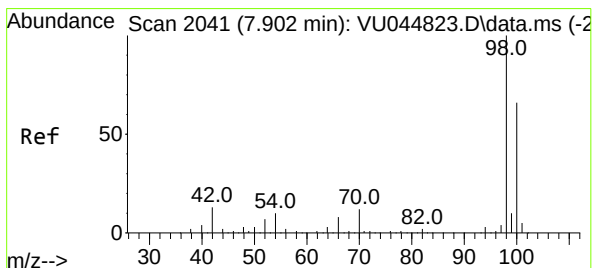
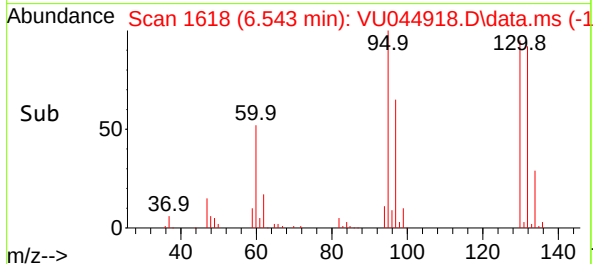
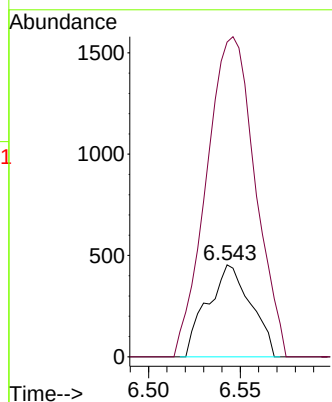
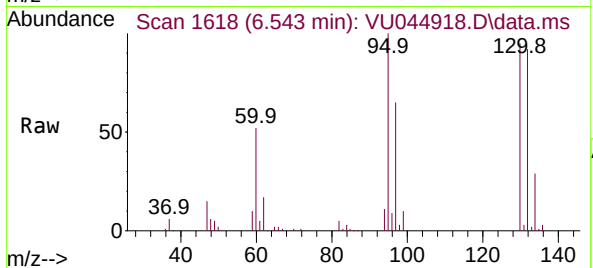


#45

1,2-Dichloropropane  
Concen: 0.246 ug/l  
RT: 6.543 min Scan# 1618  
Delta R.T. -0.254 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

Instrument :  
MSVOA\_U  
ClientSampleId :  
RE120D1-20210917DL

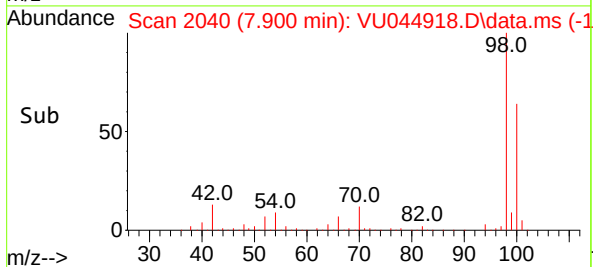
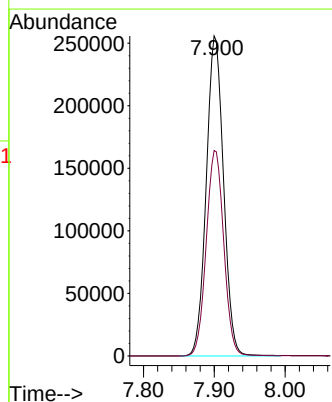
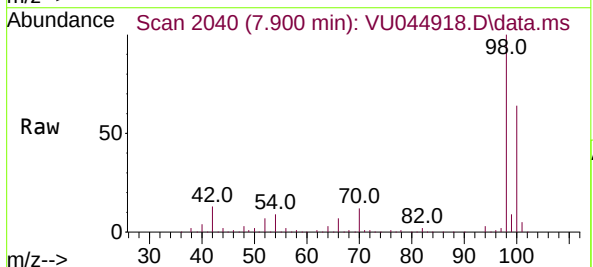
Tgt Ion: 63 Resp: 745  
Ion Ratio Lower Upper  
63 100  
65 315.0 23.9 35.9#

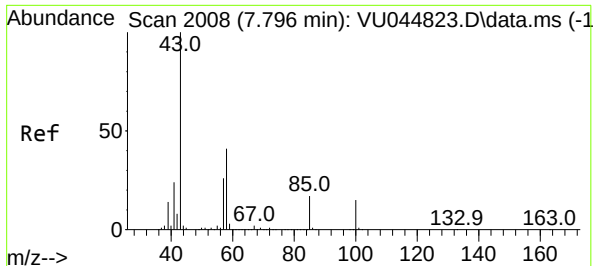


#50

Toluene-d8  
Concen: 48.334 ug/l  
RT: 7.900 min Scan# 2040  
Delta R.T. -0.003 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

Tgt Ion: 98 Resp: 433089  
Ion Ratio Lower Upper  
98 100  
100 65.2 52.5 78.7

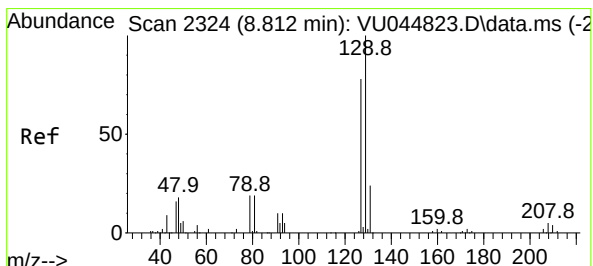
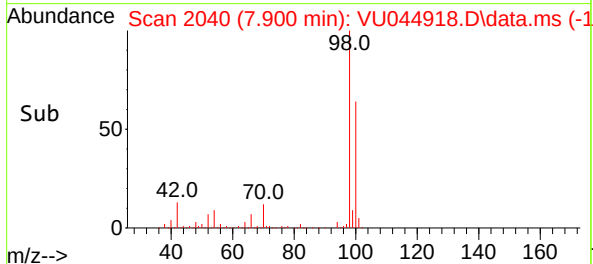
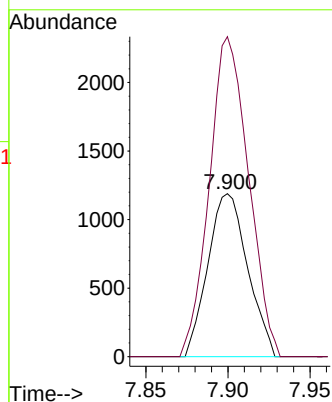
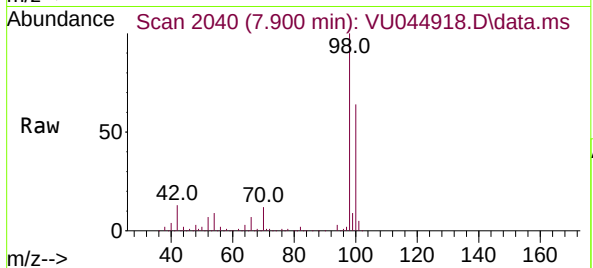




#51  
4-Methyl-2-Pentanone  
Concen: 0.372 ug/l  
RT: 7.900 min Scan# 2040  
Delta R.T. 0.103 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

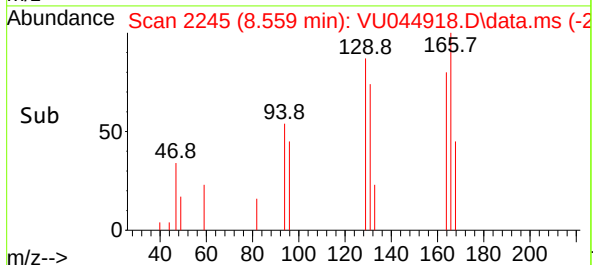
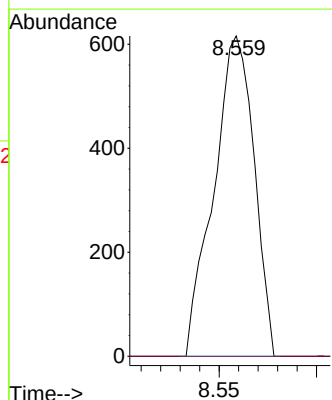
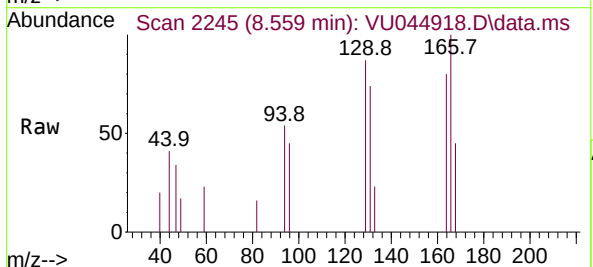
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE120D1-20210917DL

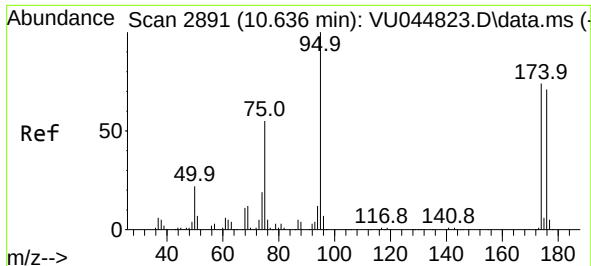
Tgt Ion: 43 Resp: 1999  
Ion Ratio Lower Upper  
43 100  
58 193.9 32.4 48.6#



#60  
Dibromochloromethane  
Concen: 0.324 ug/l  
RT: 8.559 min Scan# 2245  
Delta R.T. -0.254 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

Tgt Ion: 129 Resp: 887  
Ion Ratio Lower Upper  
129 100  
127 0.0 39.0 117.0#

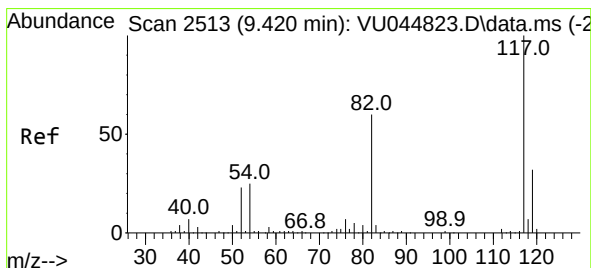
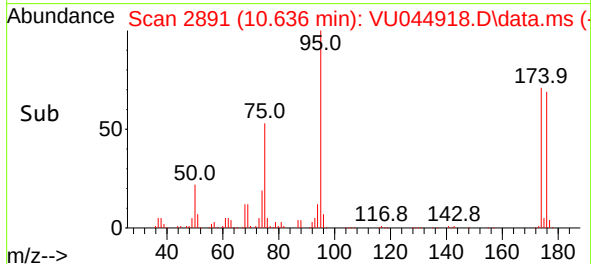
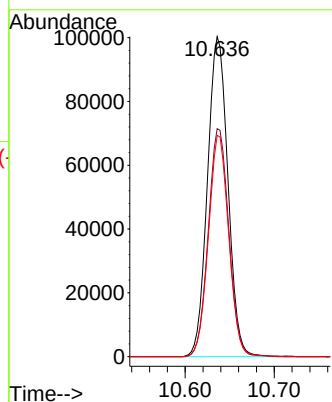
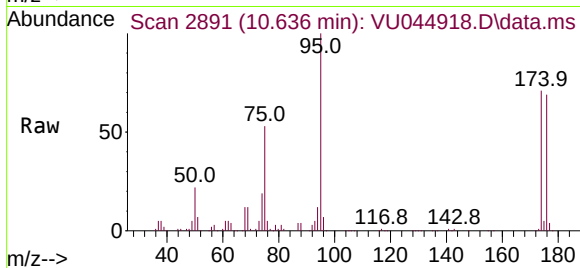




#62  
4-Bromofluorobenzene  
Concen: 47.987 ug/l  
RT: 10.636 min Scan# 2891  
Delta R.T. 0.000 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

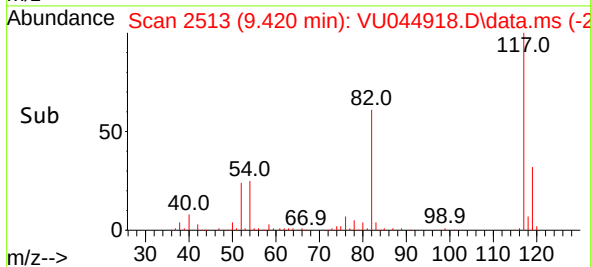
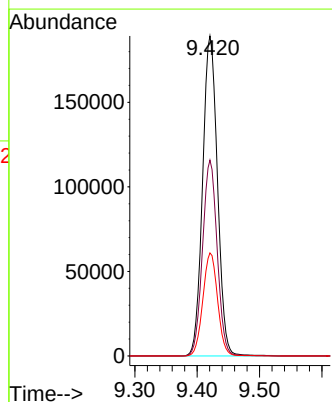
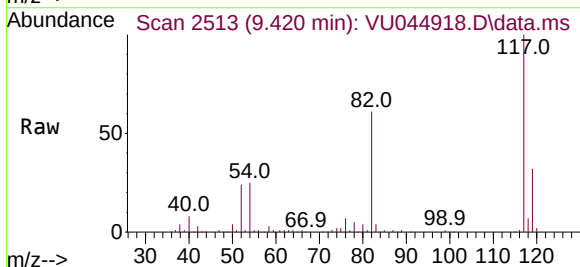
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE120D1-20210917DL

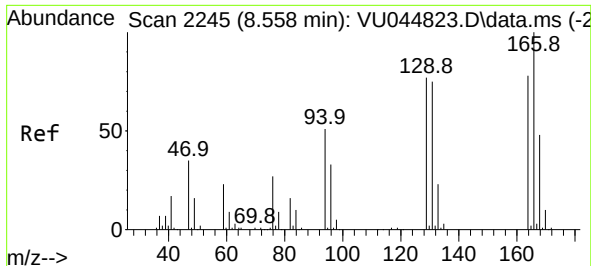
Tgt Ion: 95 Resp: 159704  
Ion Ratio Lower Upper  
95 100  
174 71.7 0.0 146.6  
176 68.6 0.0 141.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.420 min Scan# 2513  
Delta R.T. 0.000 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

Tgt Ion: 117 Resp: 313567  
Ion Ratio Lower Upper  
117 100  
82 61.2 47.8 71.8  
119 32.2 25.8 38.6



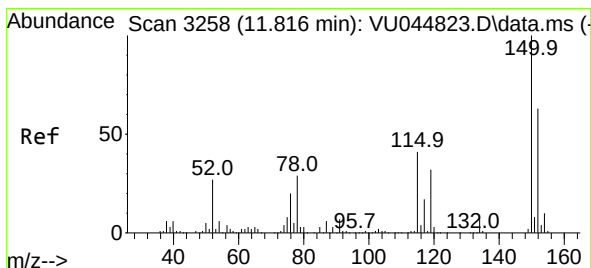
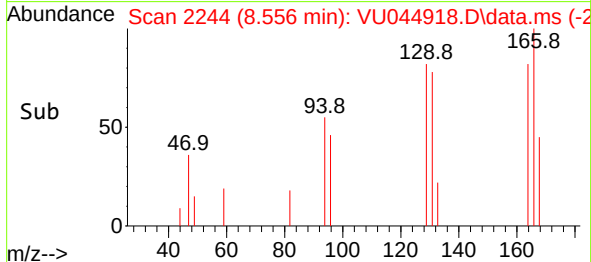
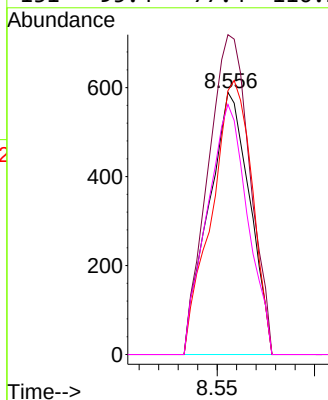
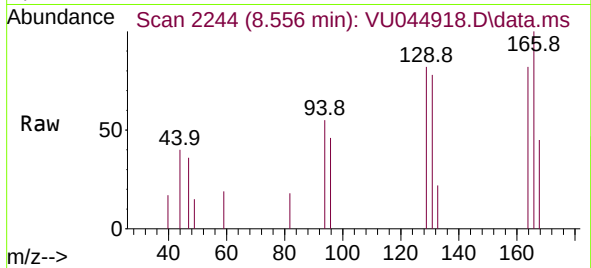


#64  
Tetrachloroethene  
Concen: 0.406 ug/l  
RT: 8.556 min Scan# 2244  
Delta R.T. -0.003 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

Instrument :  
MSVOA\_U  
ClientSampleId :  
RE120D1-20210917DL

Tgt Ion:164 Resp: 863

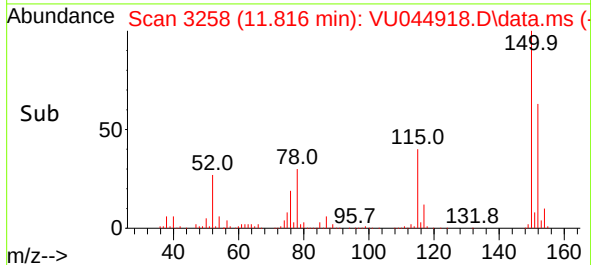
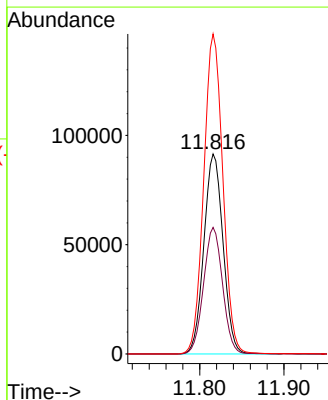
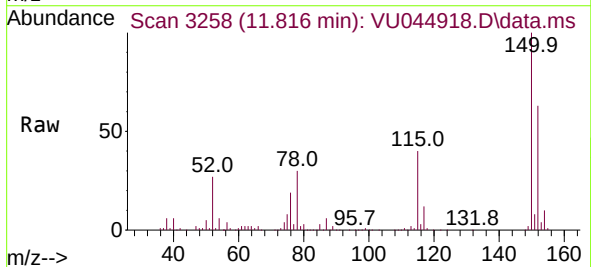
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 164 | 100   |       |       |
| 166 | 122.1 | 102.8 | 154.2 |
| 129 | 100.7 | 79.4  | 119.2 |
| 131 | 95.4  | 77.4  | 116.2 |

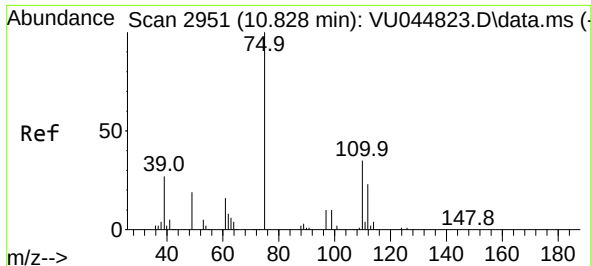


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 11.816 min Scan# 3258  
Delta R.T. 0.000 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

Tgt Ion:152 Resp: 145241

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 115 | 62.6  | 43.5  | 130.7 |
| 150 | 159.2 | 0.0   | 350.0 |

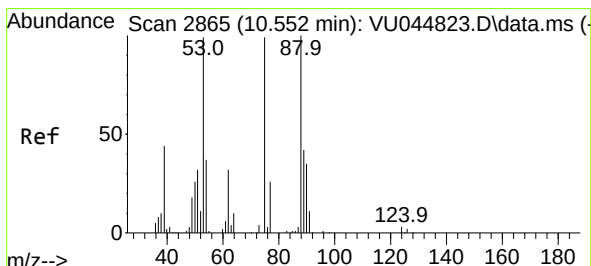
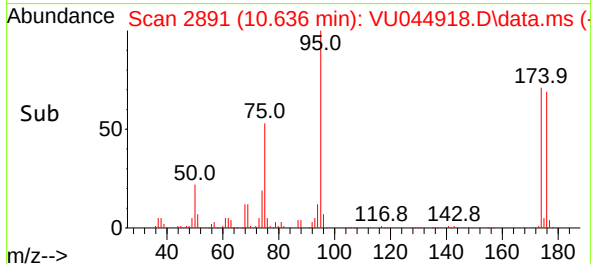
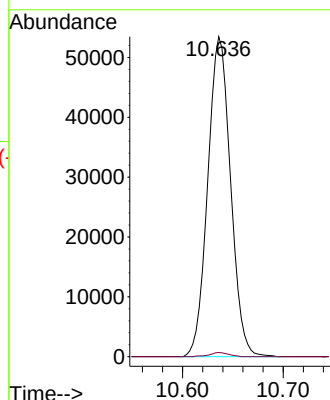
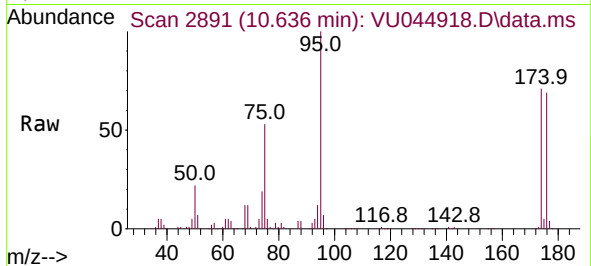




#76  
1,2,3-Trichloropropane  
Concen: 19.161 ug/l  
RT: 10.636 min Scan# 2891  
Delta R.T. -0.193 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

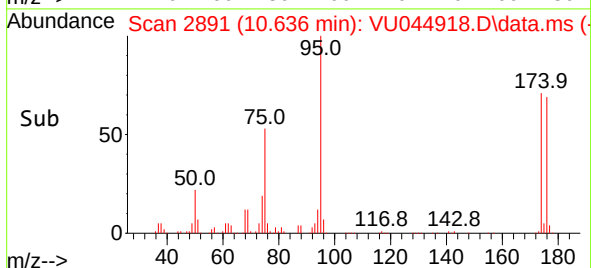
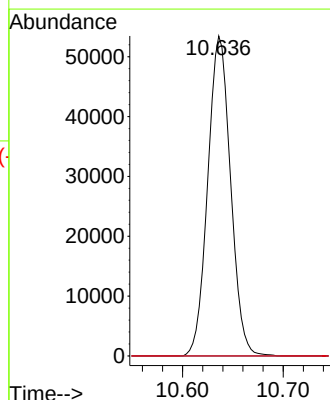
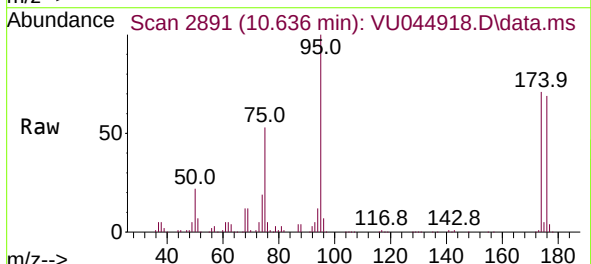
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE120D1-20210917DL

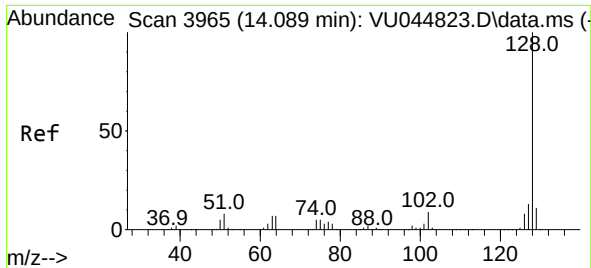
Tgt Ion: 75 Resp: 84272  
Ion Ratio Lower Upper  
75 100  
77 1.1 17.9 53.7#



#81  
trans-1,4-Dichloro-2-butene  
Concen: 62.071 ug/l  
RT: 10.636 min Scan# 2891  
Delta R.T. 0.084 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

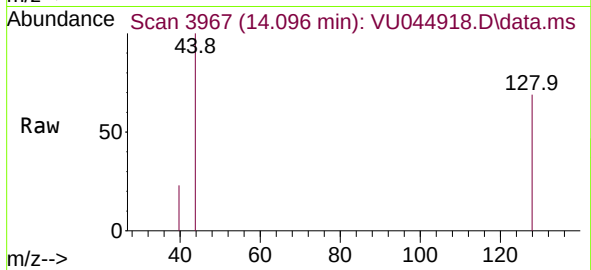
Tgt Ion: 75 Resp: 84272  
Ion Ratio Lower Upper  
75 100  
53 0.0 82.0 123.0#  
89 0.0 34.2 51.4#





#95  
Naphthalene  
Concen: 0.988 ug/l  
RT: 14.096 min Scan# 3967  
Delta R.T. 0.007 min  
Lab File: VU044918.D  
Acq: 28 Sep 2021 03:51

Instrument :  
MSVOA\_U  
ClientSampleId :  
RE120D1-20210917DL



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 0.0   | 10.4  | 15.6# |
| 129     | 0.0   | 8.6   | 13.0# |

