

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062922\  
 Data File : VU049537.D  
 Acq On : 30 Jun 2022 01:57  
 Operator : SY/MD  
 Sample : N3505-02  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :

Quant Time: Jun 30 04:13:48 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U062722W.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 28 10:35:43 2022  
 Response via : Initial Calibration

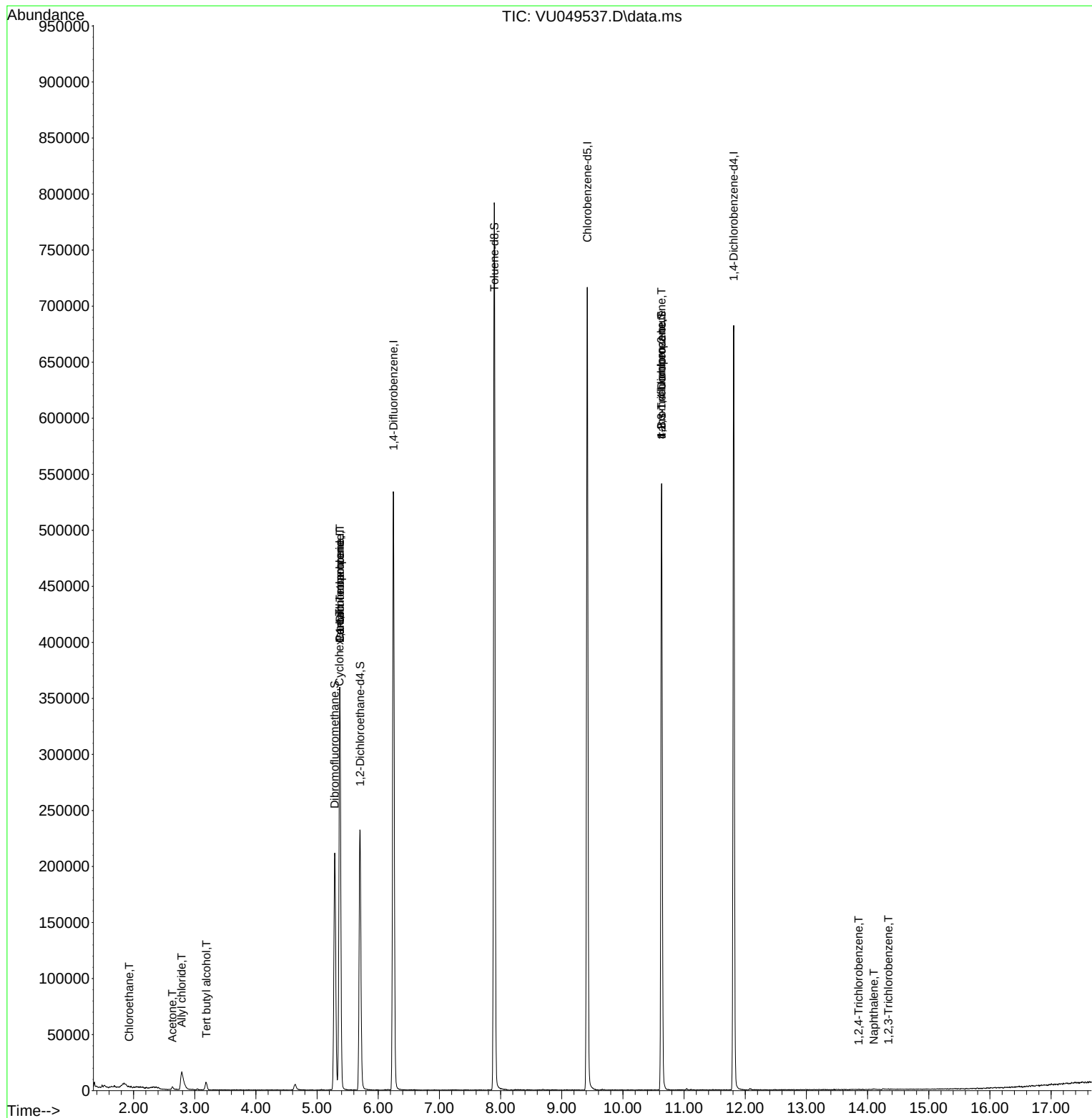
| Compound                      | R.T.   | QIon  | Response | Conc      | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-----------|--------|----------|
| -----                         |        |       |          |           |        |          |
| Internal Standards            |        |       |          |           |        |          |
| 1) Pentafluorobenzene         | 5.372  | 168   | 242322   | 50.000    | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.250  | 114   | 436039   | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.417  | 117   | 398424   | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.812 | 152   | 177278   | 50.000    | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |           |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.703  | 65    | 175646   | 47.066    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery  | =      | 94.140%  |
| 35) Dibromofluoromethane      | 5.288  | 113   | 139666   | 45.783    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery  | =      | 91.560%  |
| 50) Toluene-d8                | 7.899  | 98    | 525426   | 48.289    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery  | =      | 96.580%  |
| 62) 4-Bromofluorobenzene      | 10.632 | 95    | 185065   | 44.400    | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery  | =      | 88.800%  |
| Target Compounds              |        |       |          |           |        |          |
|                               |        |       |          |           | Qvalue |          |
| 3) Chloromethane              | 1.520  | 50    | 1633     | Below Cal |        | 91       |
| 6) Chloroethane               | 1.925  | 64    | 21       | 1.927     | ug/l # | 44       |
| 11) Tert butyl alcohol        | 3.189  | 59    | 4256     | 4.872     | ug/l # | 37       |
| 14) Allyl chloride            | 2.787  | 41    | 1489     | 0.280     | ug/l # | 89       |
| 16) Acetone                   | 2.633  | 43    | 3441     | 1.828     | ug/l   | 95       |
| 20) Methylene Chloride        | 3.038  | 84    | 324      | Below Cal | #      | 76       |
| 31) Cyclohexane               | 5.366  | 56    | 5320     | 0.949     | ug/l # | 1        |
| 36) 1,1-Dichloropropene       | 5.372  | 75    | 19408    | 4.388     | ug/l # | 49       |
| 38) Carbon Tetrachloride      | 5.372  | 117   | 24868    | 5.361     | ug/l # | 15       |
| 76) 1,2,3-Trichloropropane    | 10.632 | 75    | 95614    | 15.910    | ug/l # | 45       |
| 81) trans-1,4-Dichloro-2-b... | 10.632 | 75    | 95614    | 58.755    | ug/l # | 15       |
| 93) 1,2,4-Trichlorobenzene    | 13.854 | 180   | 112      | 1.781     | ug/l # | 57       |
| 95) Naphthalene               | 14.102 | 128   | 1252     | 1.823     | ug/l # | 69       |
| 96) 1,2,3-Trichlorobenzene    | 14.339 | 180   | 342      | 1.259     | ug/l # | 22       |
| -----                         |        |       |          |           |        |          |

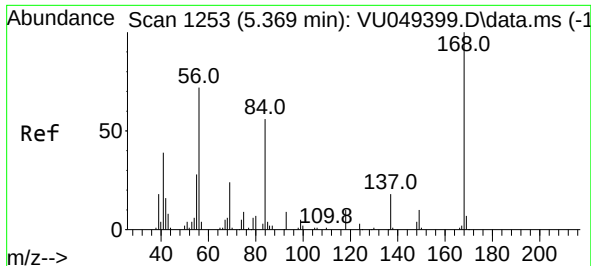
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062922\  
Data File : VU049537.D  
Acq On : 30 Jun 2022 01:57  
Operator : SY/MD  
Sample : N3505-02  
Misc : 5.0mL/MSVOA\_U/WATER  
ALS Vial : 40 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :

Quant Time: Jun 30 04:13:48 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_U\Method\82U062722W.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 28 10:35:43 2022  
Response via : Initial Calibration

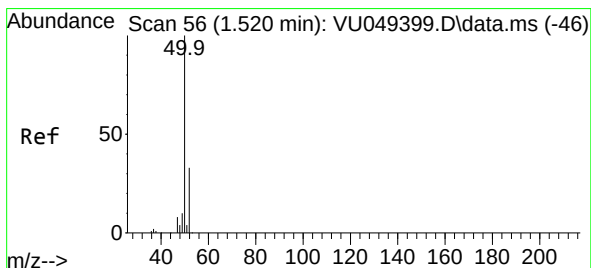
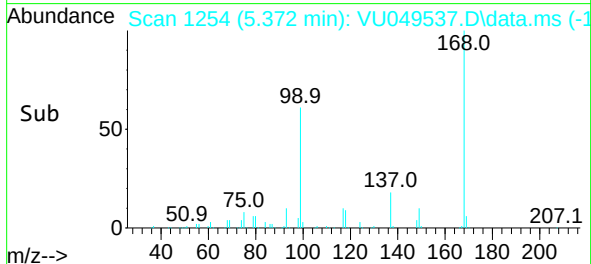
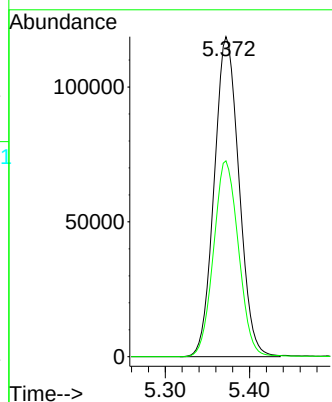
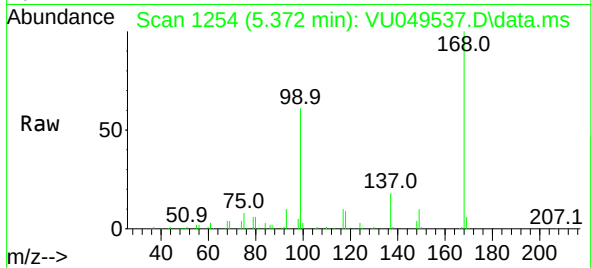




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.372 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU049537.D  
Acq: 30 Jun 2022 01:57

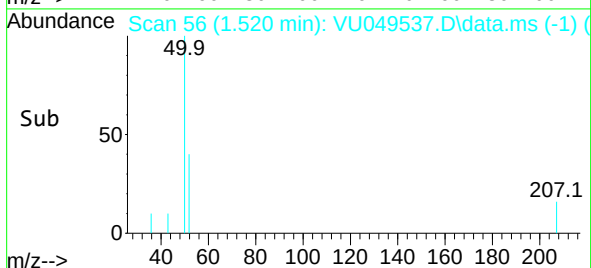
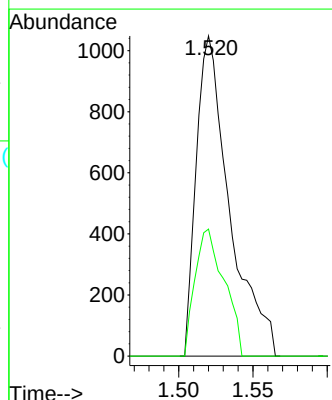
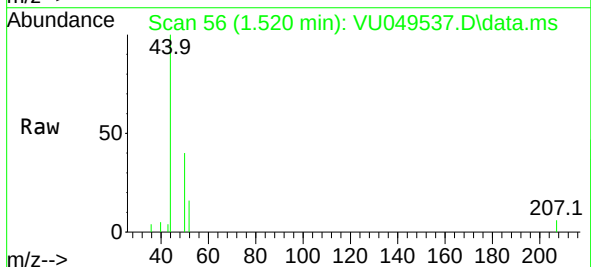
Instrument :  
MSVOA\_U  
ClientSampleId :

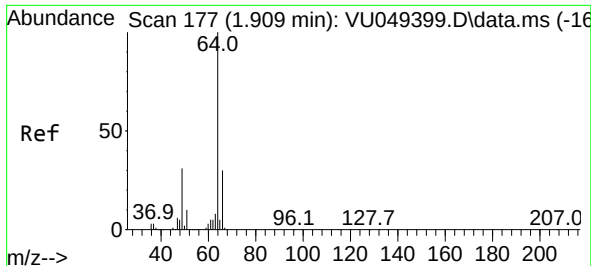
Tgt Ion:168 Resp: 242322  
Ion Ratio Lower Upper  
168 100  
99 61.2 39.3 58.9#



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.520 min Scan# 56  
Delta R.T. 0.000 min  
Lab File: VU049537.D  
Acq: 30 Jun 2022 01:57

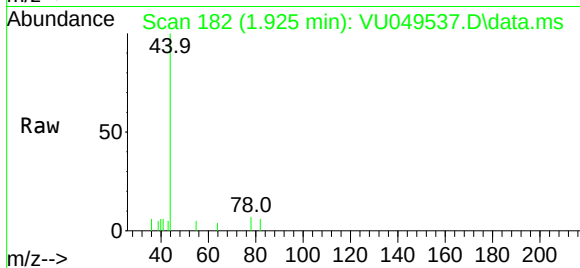
Tgt Ion: 50 Resp: 1633  
Ion Ratio Lower Upper  
50 100  
52 39.7 27.4 41.2



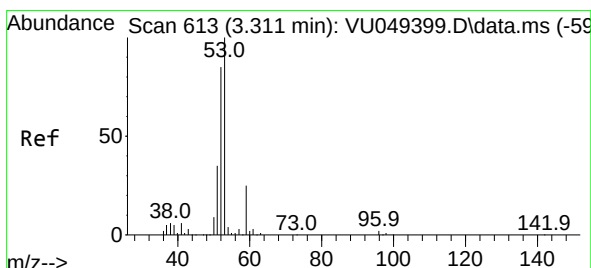
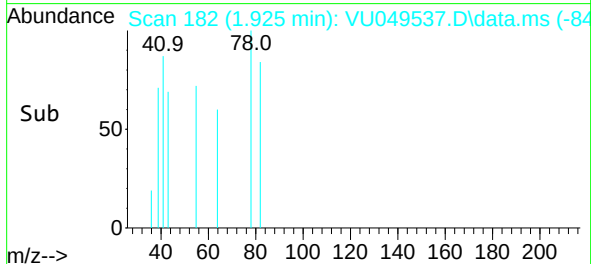
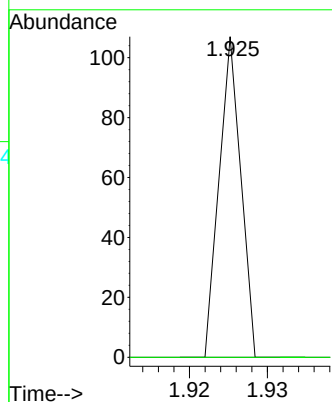


#6  
Chloroethane  
Concen: 1.927 ug/l  
RT: 1.925 min Scan# 11  
Delta R.T. 0.016 min  
Lab File: VU049537.D  
Acq: 30 Jun 2022 01:57

Instrument :  
MSVOA\_U  
ClientSampleId :

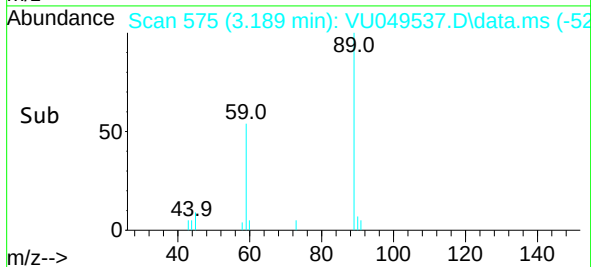
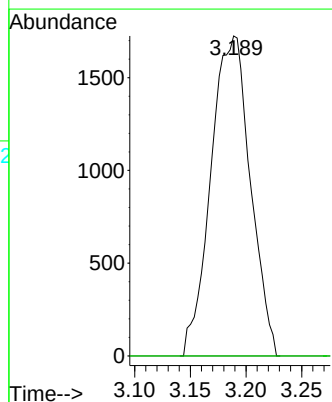
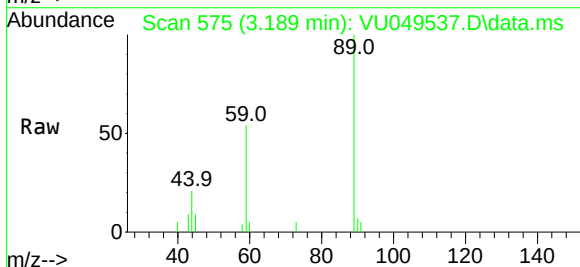


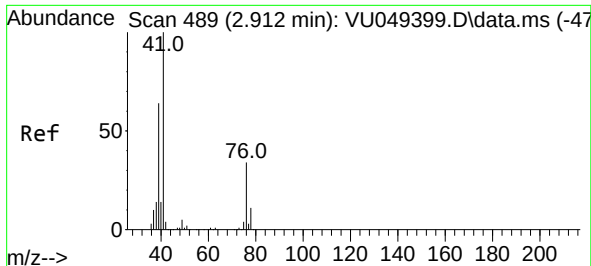
Tgt Ion: 64 Resp: 21  
Ion Ratio Lower Upper  
64 100  
66 0.0 24.7 37.1#



#11  
Tert butyl alcohol  
Concen: 4.872 ug/l  
RT: 3.189 min Scan# 575  
Delta R.T. -0.122 min  
Lab File: VU049537.D  
Acq: 30 Jun 2022 01:57

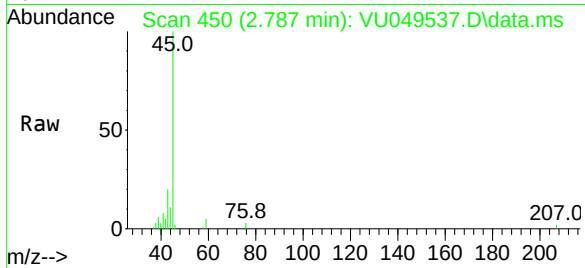
Tgt Ion: 59 Resp: 4256  
Ion Ratio Lower Upper  
59 100  
57 0.0 30.6 45.8#



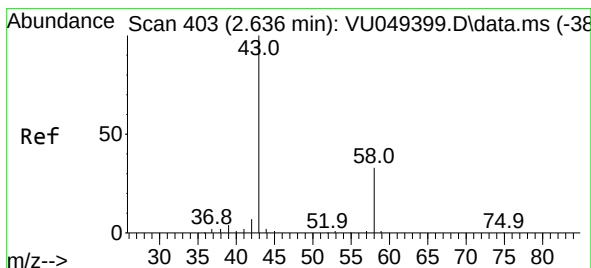
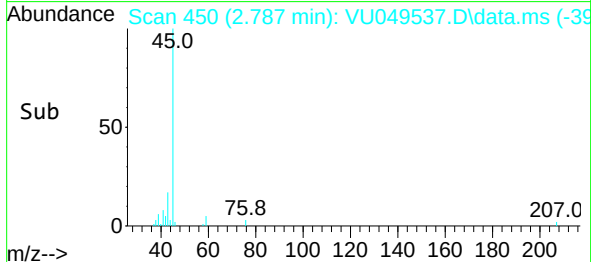
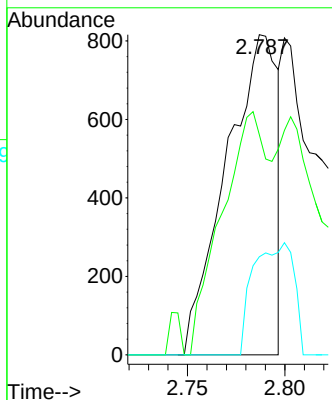


#14  
 Allyl chloride  
 Concen: 0.280 ug/l  
 RT: 2.787 min Scan# 41  
 Delta R.T. -0.125 min  
 Lab File: VU049537.D  
 Acq: 30 Jun 2022 01:57

Instrument :  
 MSVOA\_U  
 ClientSampleId :

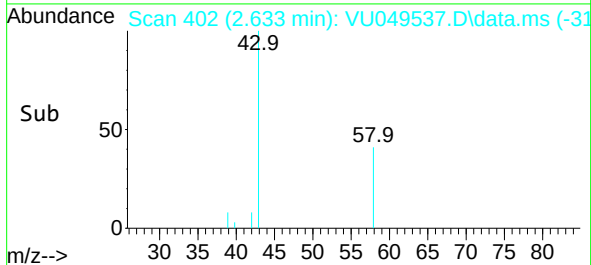
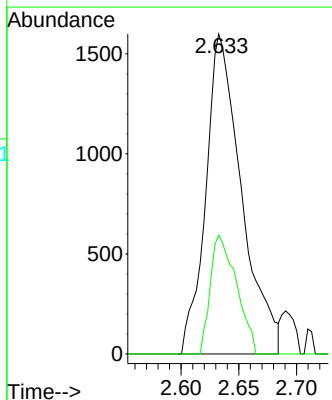
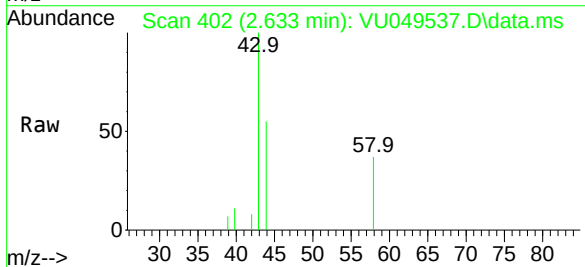


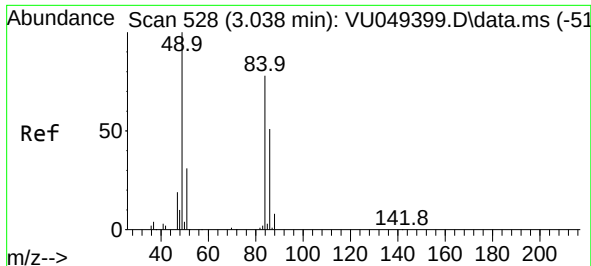
Tgt Ion: 41 Resp: 1489  
 Ion Ratio Lower Upper  
 41 100  
 39 70.2 53.4 80.2  
 76 27.7 33.8 50.6#



#16  
 Acetone  
 Concen: 1.828 ug/l  
 RT: 2.633 min Scan# 402  
 Delta R.T. -0.003 min  
 Lab File: VU049537.D  
 Acq: 30 Jun 2022 01:57

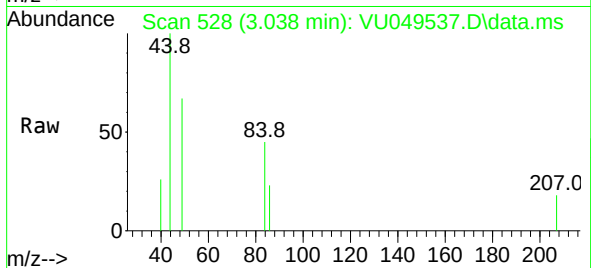
Tgt Ion: 43 Resp: 3441  
 Ion Ratio Lower Upper  
 43 100  
 58 37.1 27.5 41.3





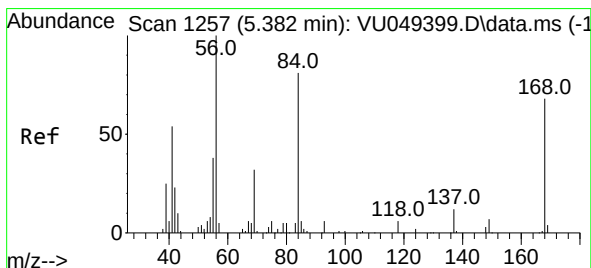
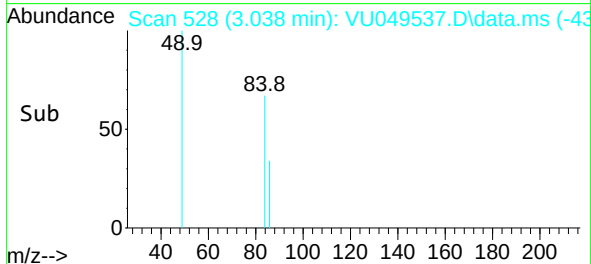
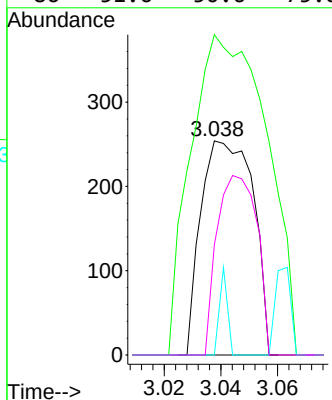
#20  
Methylene Chloride  
Concen: Below Cal  
RT: 3.038 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: VU049537.D  
Acq: 30 Jun 2022 01:57

Instrument :  
MSVOA\_U  
ClientSampleId :



Tgt Ion: 84 Resp: 324

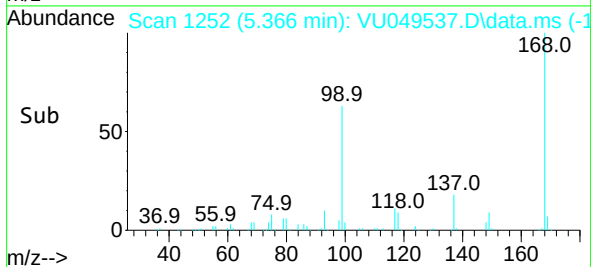
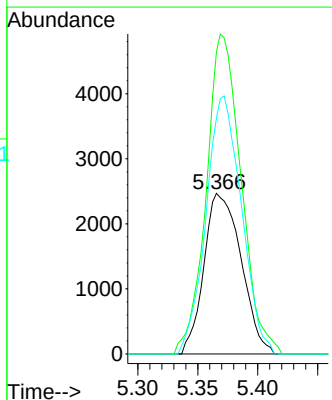
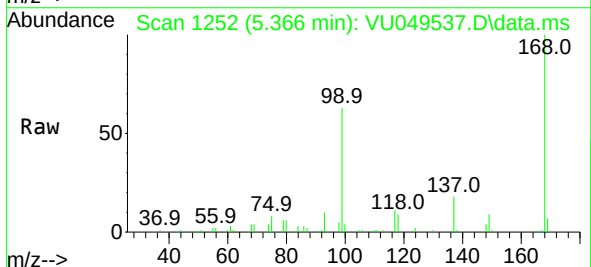
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 88.6  | 86.6  | 129.8 |
| 51  | 0.0   | 26.6  | 40.0# |
| 86  | 51.6  | 50.6  | 75.8  |

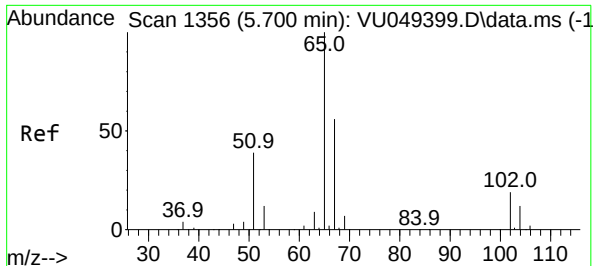


#31  
Cyclohexane  
Concen: 0.949 ug/l  
RT: 5.366 min Scan# 1252  
Delta R.T. -0.016 min  
Lab File: VU049537.D  
Acq: 30 Jun 2022 01:57

Tgt Ion: 56 Resp: 5320

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 184.0 | 27.8  | 41.8#  |
| 84  | 146.8 | 74.2  | 111.4# |





#33

1,2-Dichloroethane-d4

Concen: 47.066 ug/l

RT: 5.703 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU049537.D

Acq: 30 Jun 2022 01:57

Instrument :

MSVOA\_U

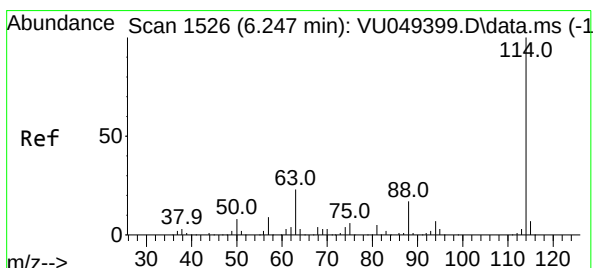
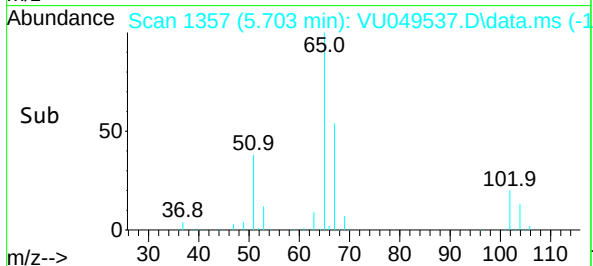
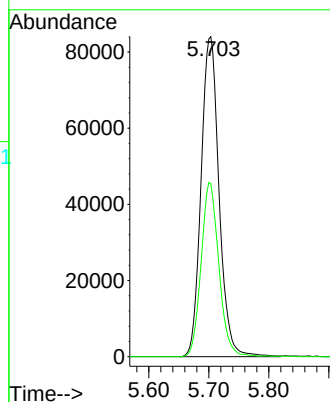
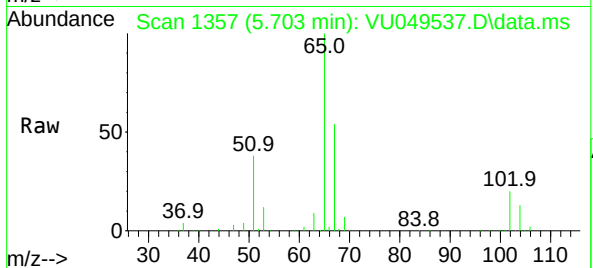
ClientSampleId :

Tgt Ion: 65 Resp: 175646

Ion Ratio Lower Upper

65 100

67 53.6 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.250 min Scan# 1527

Delta R.T. 0.003 min

Lab File: VU049537.D

Acq: 30 Jun 2022 01:57

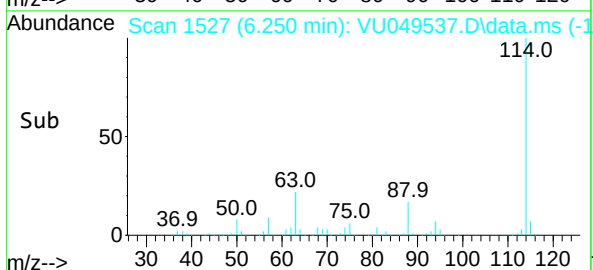
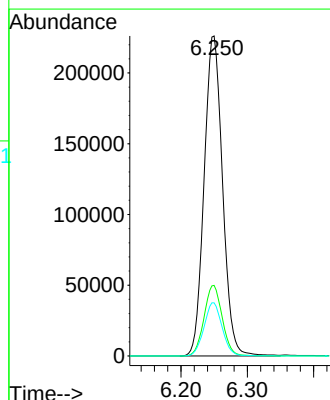
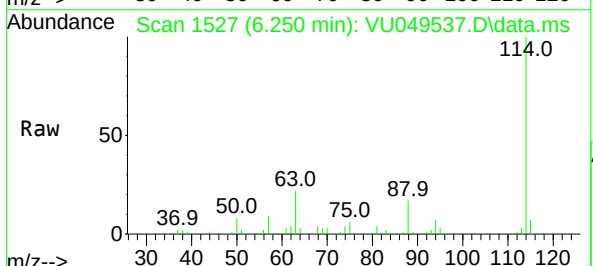
Tgt Ion: 114 Resp: 436039

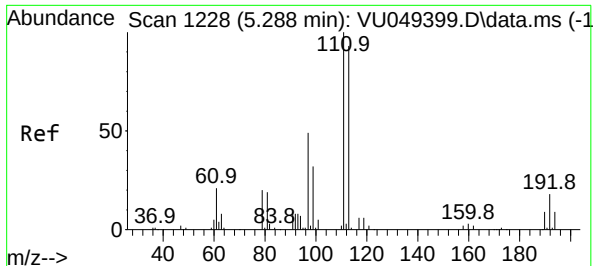
Ion Ratio Lower Upper

114 100

63 22.1 0.0 37.8

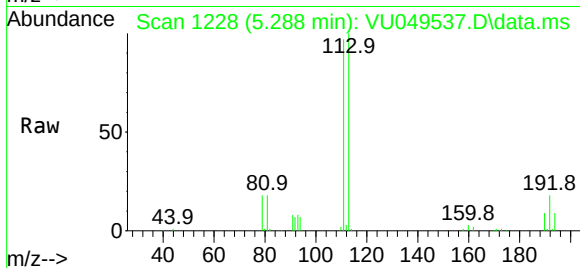
88 16.6 0.0 29.2



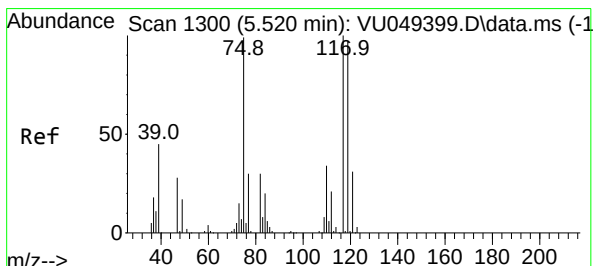
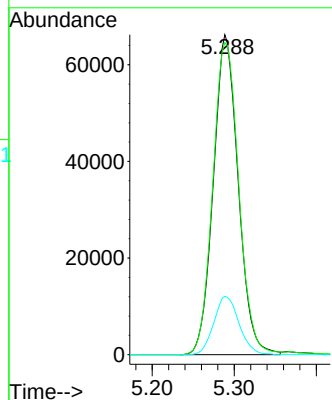
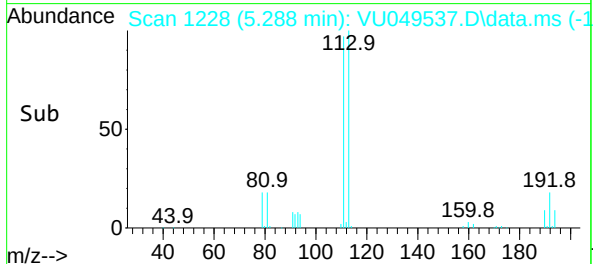


#35  
Dibromofluoromethane  
Concen: 45.783 ug/l  
RT: 5.288 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU049537.D  
Acq: 30 Jun 2022 01:57

Instrument :  
MSVOA\_U  
ClientSampleId :

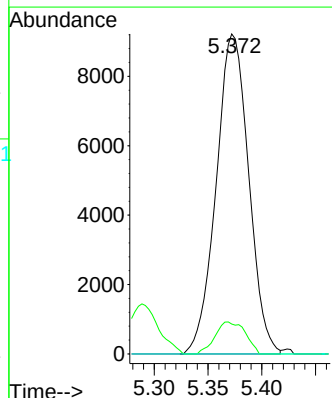
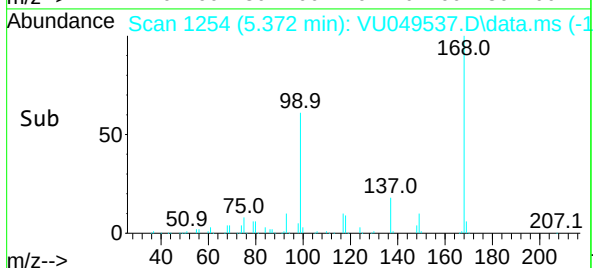
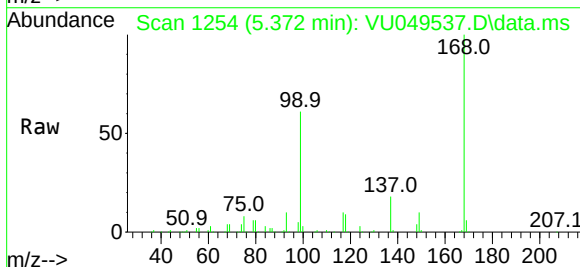


Tgt Ion:113 Resp: 139666  
Ion Ratio Lower Upper  
113 100  
111 101.9 82.1 123.1  
192 18.5 18.0 27.0

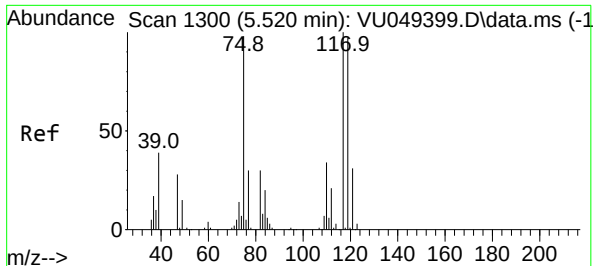


#36  
1,1-Dichloropropene  
Concen: 4.388 ug/l  
RT: 5.372 min Scan# 1254  
Delta R.T. -0.148 min  
Lab File: VU049537.D  
Acq: 30 Jun 2022 01:57

Tgt Ion: 75 Resp: 19408  
Ion Ratio Lower Upper  
75 100  
110 9.3 18.4 55.2#  
77 0.0 25.1 37.7#

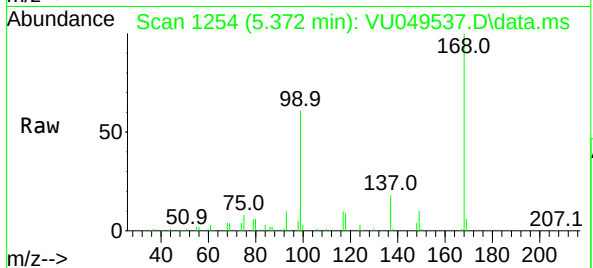




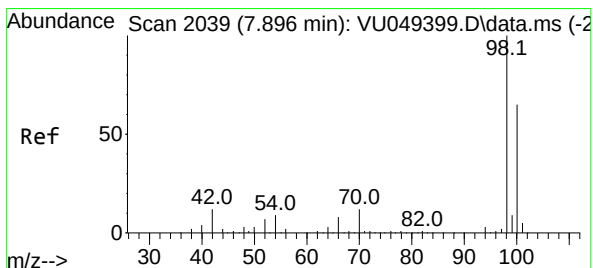
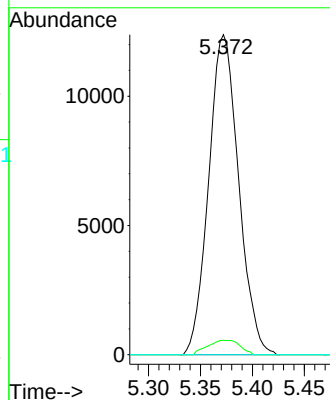
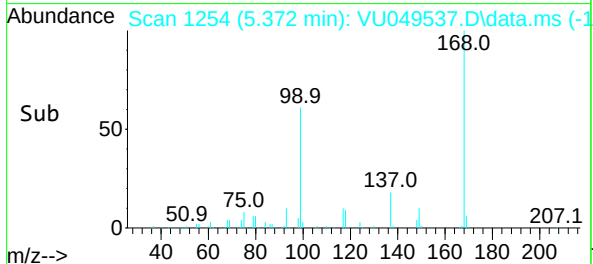


#38  
Carbon Tetrachloride  
Concen: 5.361 ug/l  
RT: 5.372 min Scan# 117  
Delta R.T. -0.148 min  
Lab File: VU049537.D  
Acq: 30 Jun 2022 01:57

Instrument :  
MSVOA\_U  
ClientSampleId :

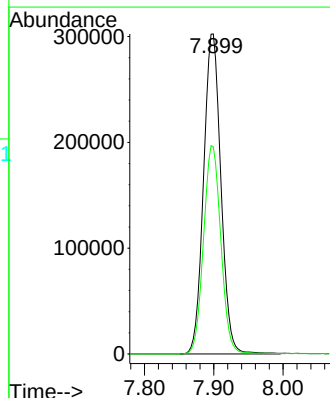
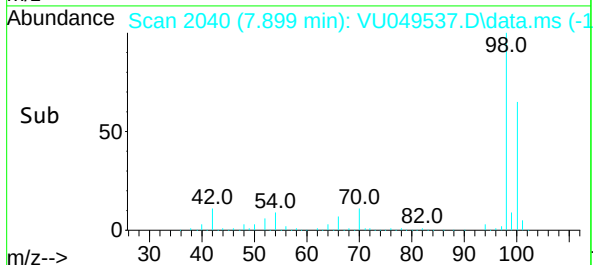
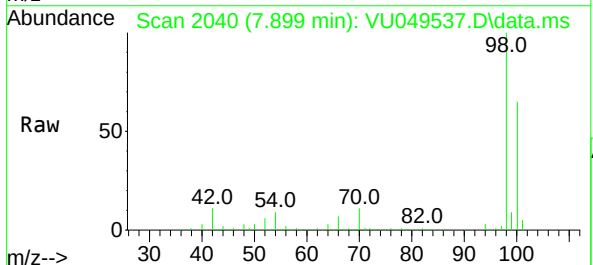


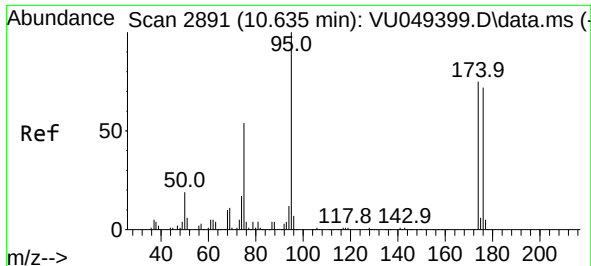
Tgt Ion:117 Resp: 24868  
Ion Ratio Lower Upper  
117 100  
119 4.5 76.8 115.2#  
121 0.0 24.7 37.1#



#50  
Toluene-d8  
Concen: 48.289 ug/l  
RT: 7.899 min Scan# 2040  
Delta R.T. 0.003 min  
Lab File: VU049537.D  
Acq: 30 Jun 2022 01:57

Tgt Ion: 98 Resp: 525426  
Ion Ratio Lower Upper  
98 100  
100 65.1 51.7 77.5

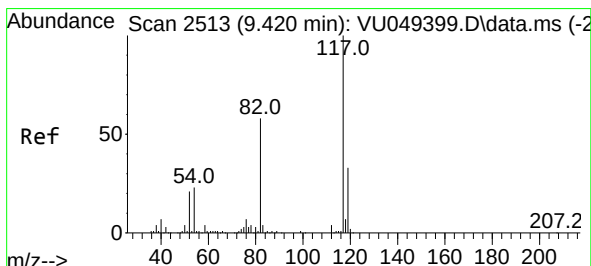
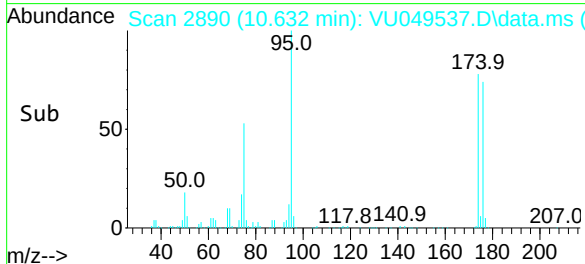
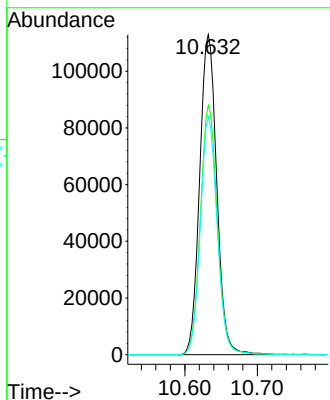
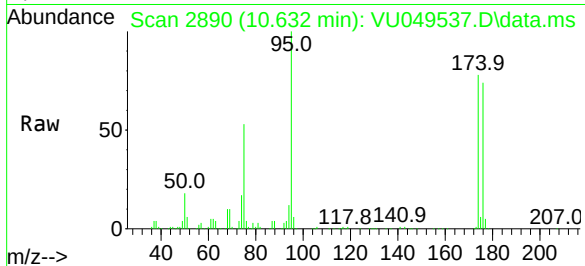




#62  
4-Bromofluorobenzene  
Concen: 44.400 ug/l  
RT: 10.632 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: VU049537.D  
Acq: 30 Jun 2022 01:57

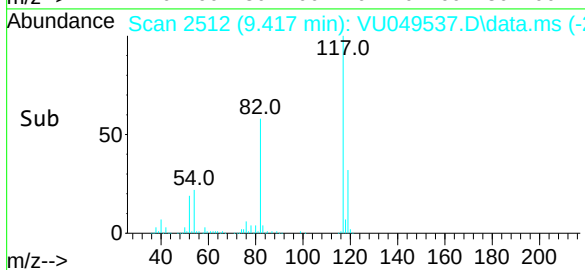
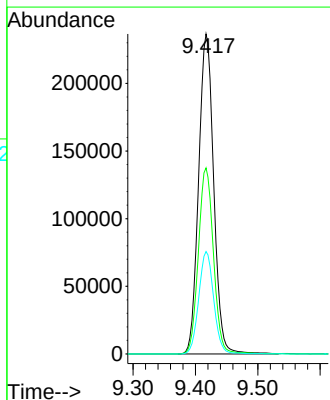
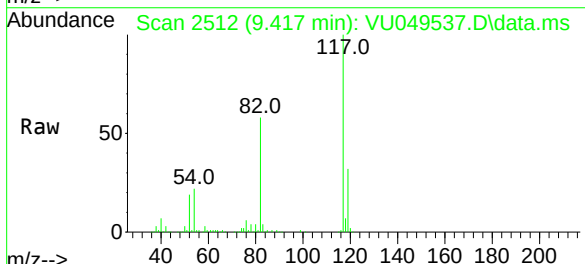
Instrument :  
MSVOA\_U  
ClientSampleId :

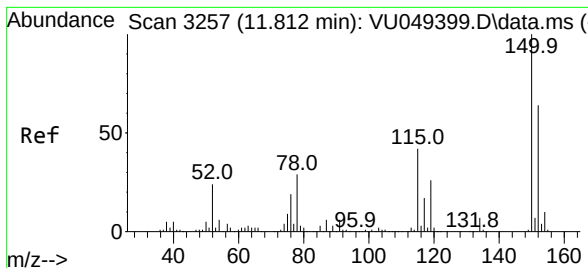
Tgt Ion: 95 Resp: 185065  
Ion Ratio Lower Upper  
95 100  
174 77.5 0.0 182.0  
176 73.2 0.0 177.8



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 9.417 min Scan# 2512  
Delta R.T. -0.003 min  
Lab File: VU049537.D  
Acq: 30 Jun 2022 01:57

Tgt Ion: 117 Resp: 398424  
Ion Ratio Lower Upper  
117 100  
82 58.2 41.7 62.5  
119 32.0 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 11.812 min Scan# 31

Delta R.T. 0.000 min

Lab File: VU049537.D

Acq: 30 Jun 2022 01:57

Instrument :

MSVOA\_U

ClientSampleId :

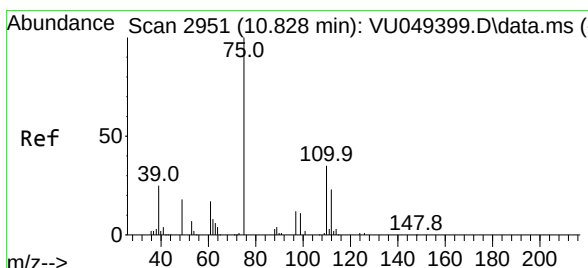
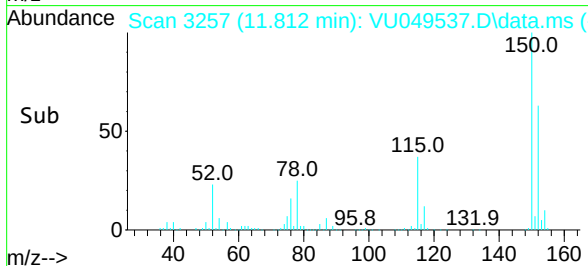
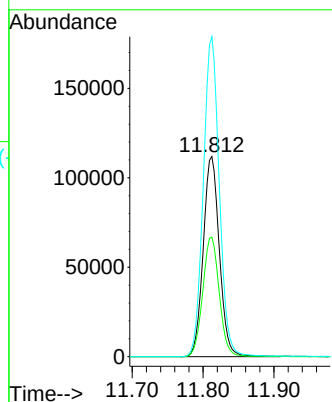
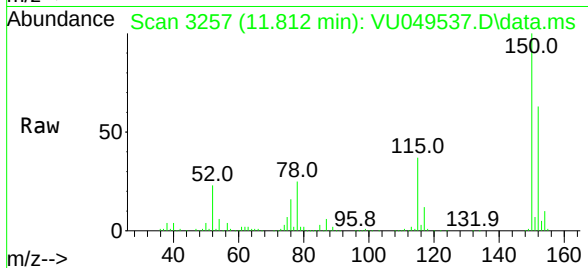
Tgt Ion:152 Resp: 177278

Ion Ratio Lower Upper

152 100

115 60.7 37.0 110.9

150 158.3 0.0 342.2



#76

1,2,3-Trichloropropane

Concen: 15.910 ug/l

RT: 10.632 min Scan# 2890

Delta R.T. -0.196 min

Lab File: VU049537.D

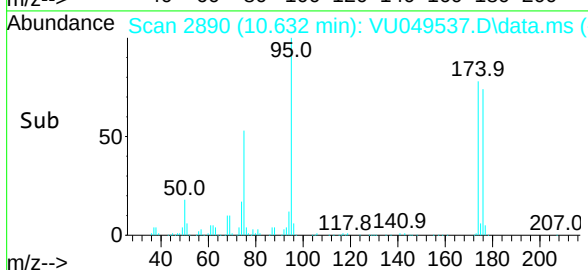
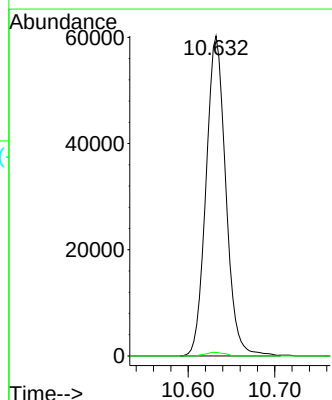
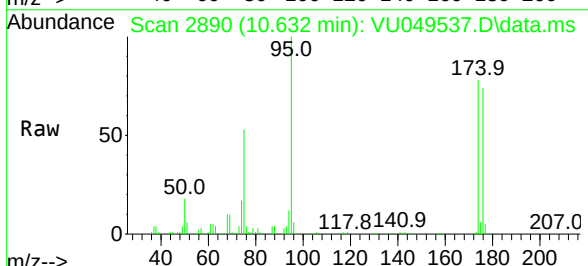
Acq: 30 Jun 2022 01:57

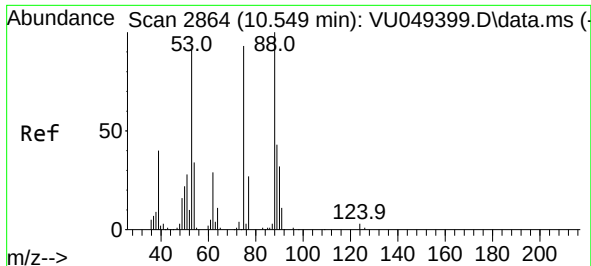
Tgt Ion: 75 Resp: 95614

Ion Ratio Lower Upper

75 100

77 1.1 15.8 47.3#

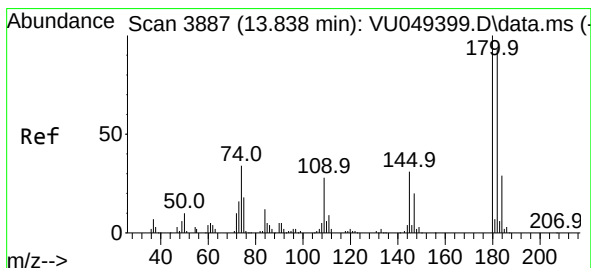
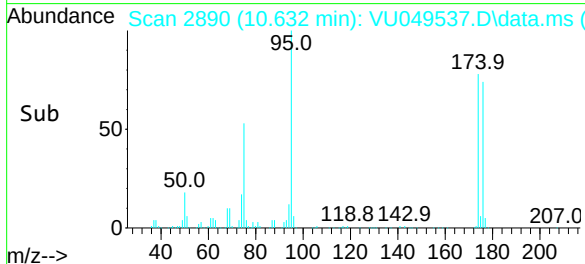
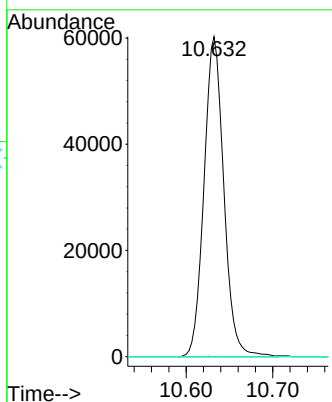
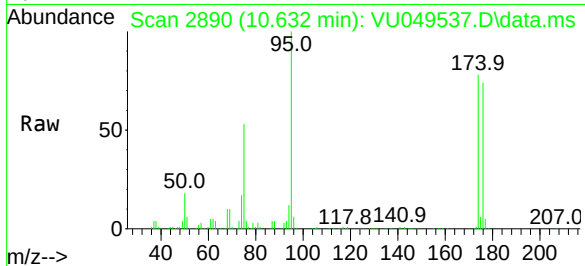




#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 58.755 ug/l  
 RT: 10.632 min Scan# 21  
 Delta R.T. 0.084 min  
 Lab File: VU049537.D  
 Acq: 30 Jun 2022 01:57

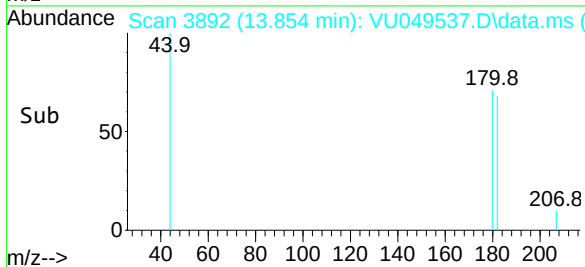
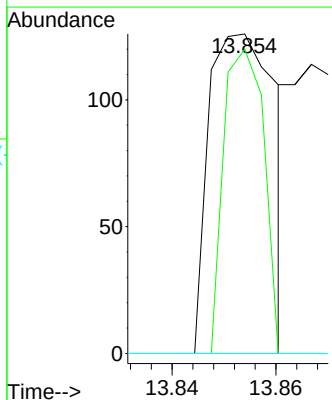
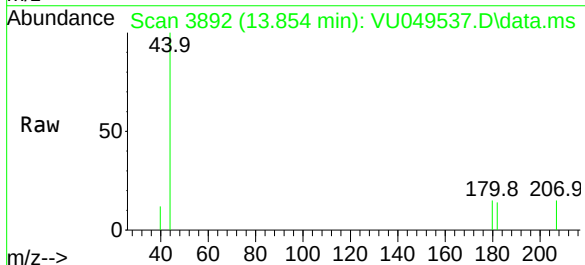
Instrument :  
 MSVOA\_U  
 ClientSampleId :

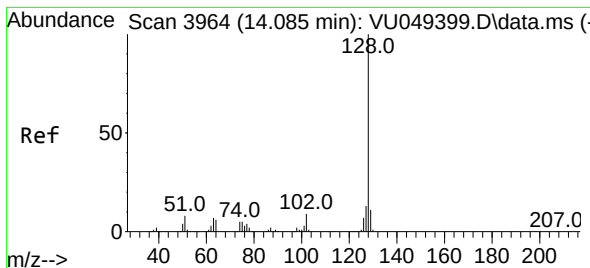
Tgt Ion: 75 Resp: 95614  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 69.2 103.8#  
 89 0.0 37.0 55.6#



#93  
 1,2,4-Trichlorobenzene  
 Concen: 1.781 ug/l  
 RT: 13.854 min Scan# 3892  
 Delta R.T. 0.016 min  
 Lab File: VU049537.D  
 Acq: 30 Jun 2022 01:57

Tgt Ion: 180 Resp: 112  
 Ion Ratio Lower Upper  
 180 100  
 182 57.1 47.9 143.6  
 145 0.0 14.0 41.9#





#95

Naphthalene

Concen: 1.823 ug/l

RT: 14.102 min Scan# 3964

Delta R.T. 0.016 min

Lab File: VU049537.D

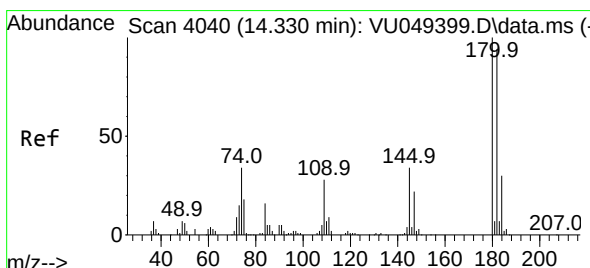
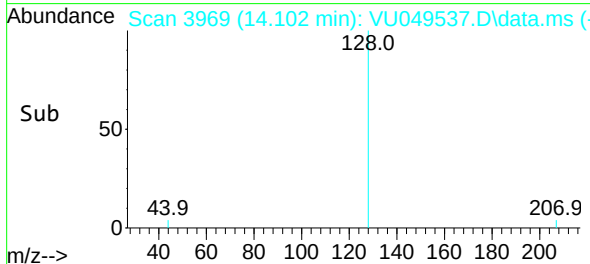
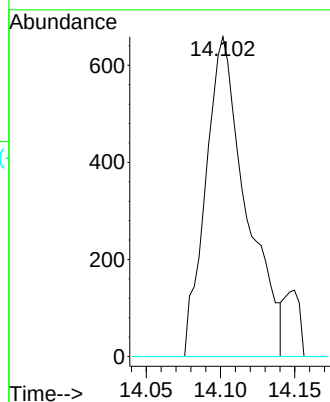
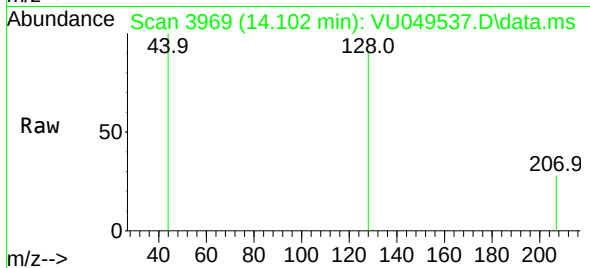
Acq: 30 Jun 2022 01:57

Instrument :

MSVOA\_U

ClientSampleId :

|             |       |            |
|-------------|-------|------------|
| Tgt Ion:128 | Resp: | 1252       |
| Ion Ratio   | Lower | Upper      |
| 128         | 100   |            |
| 127         | 0.0   | 10.3 15.5# |
| 129         | 0.0   | 8.6 13.0#  |



#96

1,2,3-Trichlorobenzene

Concen: 1.259 ug/l

RT: 14.339 min Scan# 4043

Delta R.T. 0.010 min

Lab File: VU049537.D

Acq: 30 Jun 2022 01:57

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:180 | Resp: | 342         |
| Ion Ratio   | Lower | Upper       |
| 180         | 100   |             |
| 182         | 13.7  | 48.4 145.0# |
| 145         | 0.0   | 14.8 44.4#  |

