

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062822\  
 Data File : VU049483.D  
 Acq On : 29 Jun 2022 01:24  
 Operator : SY/MD  
 Sample : N3457-12 10X  
 Misc : 5.0mL/MSVOA\_U/WATER  
 ALS Vial : 40 Sample Multiplier: 1

Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RE103D2-20220620DL

Quant Time: Jun 29 05:25:01 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

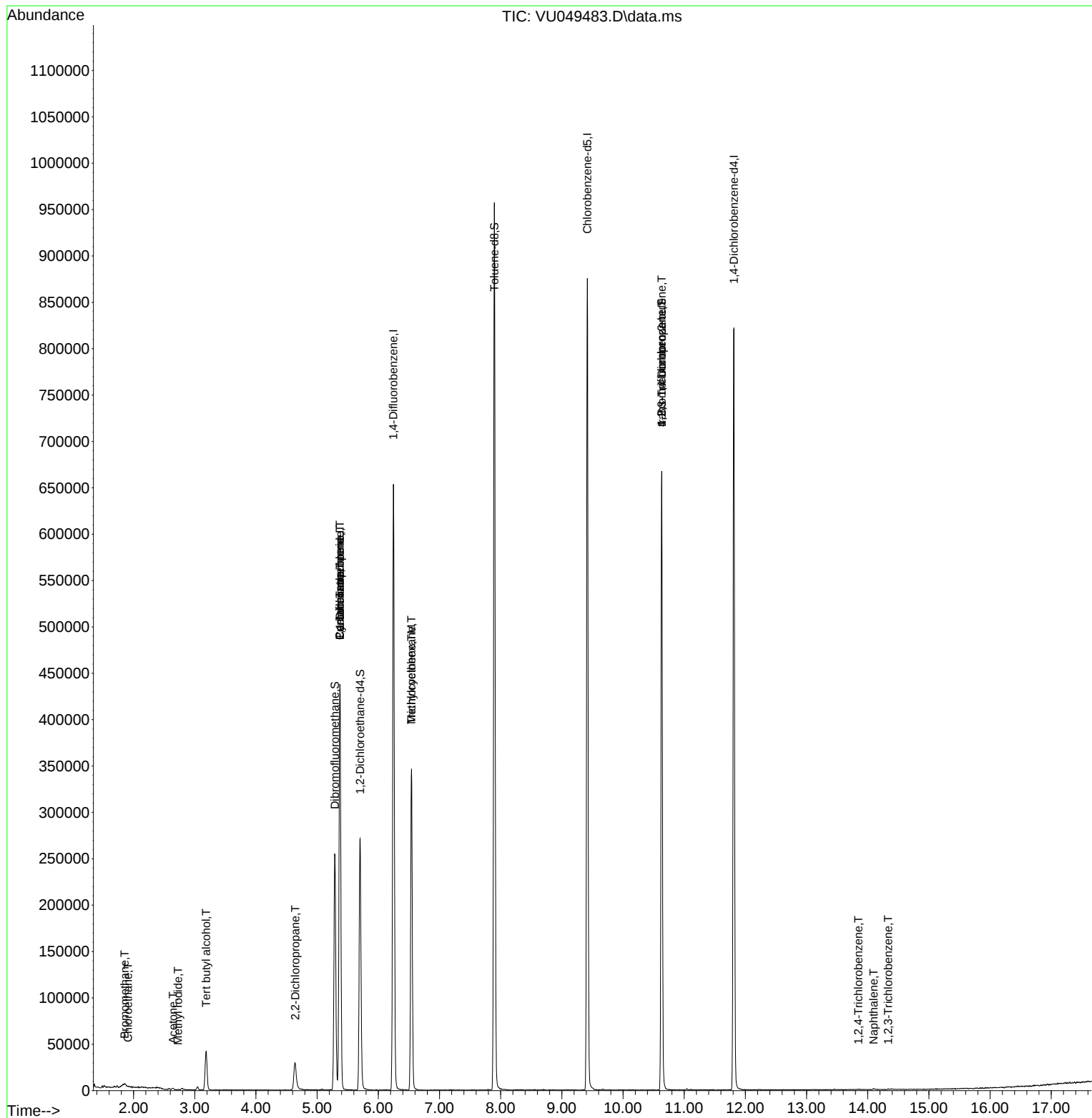
| Compound                      | R.T.   | QIon  | Response | Conc        | Units  | Dev(Min) |
|-------------------------------|--------|-------|----------|-------------|--------|----------|
| -----                         |        |       |          |             |        |          |
| Internal Standards            |        |       |          |             |        |          |
| 1) Pentafluorobenzene         | 5.372  | 168   | 304556   | 50.000      | ug/l   | # 0.00   |
| 34) 1,4-Difluorobenzene       | 6.247  | 114   | 531302   | 50.000      | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 9.417  | 117   | 476225   | 50.000      | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 11.812 | 152   | 216918   | 50.000      | ug/l   | 0.00     |
| System Monitoring Compounds   |        |       |          |             |        |          |
| 33) 1,2-Dichloroethane-d4     | 5.703  | 65    | 204240   | 43.545      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 78 - 117 | Recovery    | =      | 87.080%  |
| 35) Dibromofluoromethane      | 5.289  | 113   | 166646   | 44.832      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 75 - 124 | Recovery    | =      | 89.660%  |
| 50) Toluene-d8                | 7.896  | 98    | 633948   | 47.816      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 92 - 112 | Recovery    | =      | 95.640%  |
| 62) 4-Bromofluorobenzene      | 10.632 | 95    | 233217   | 45.921      | ug/l   | 0.00     |
| Spiked Amount                 | 50.000 | Range | 83 - 123 | Recovery    | =      | 91.840%  |
| Target Compounds              |        |       |          |             |        |          |
|                               |        |       |          |             | Qvalue |          |
| 3) Chloromethane              | 1.520  | 50    | 1561     | Below Cal   |        | 89       |
| 5) Bromomethane               | 1.855  | 94    | 471      | 0.307 ug/l  |        | 82       |
| 6) Chloroethane               | 1.909  | 64    | 43       | 1.934 ug/l  | #      | 44       |
| 10) Methyl Iodide             | 2.726  | 142   | 72       | 7.531 ug/l  | #      | 43       |
| 11) Tert butyl alcohol        | 3.186  | 59    | 26326    | 23.980 ug/l | #      | 38       |
| 16) Acetone                   | 2.646  | 43    | 2566     | 1.085 ug/l  | #      | 78       |
| 20) Methylene Chloride        | 3.041  | 84    | 1600     | Below Cal   |        | 86       |
| 26) 2,2-Dichloropropane       | 4.645  | 77    | 2253     | 0.369 ug/l  | #      | 52       |
| 31) Cyclohexane               | 5.372  | 56    | 6087     | 0.864 ug/l  | #      | 1        |
| 36) 1,1-Dichloropropene       | 5.372  | 75    | 24638    | 4.571 ug/l  | #      | 48       |
| 38) Carbon Tetrachloride      | 5.372  | 117   | 30749    | 5.440 ug/l  | #      | 15       |
| 39) Methylcyclohexane         | 6.542  | 83    | 1312     | 0.203 ug/l  | #      | 1        |
| 44) Trichloroethene           | 6.542  | 130   | 116239   | 30.049 ug/l |        | 89       |
| 76) 1,2,3-Trichloropropane    | 10.632 | 75    | 116019   | 15.778 ug/l | #      | 44       |
| 81) trans-1,4-Dichloro-2-b... | 10.632 | 75    | 116019   | 58.265 ug/l | #      | 15       |
| 93) 1,2,4-Trichlorobenzene    | 13.848 | 180   | 235      | 1.800 ug/l  | #      | 86       |
| 95) Naphthalene               | 14.098 | 128   | 1997     | 1.849 ug/l  | #      | 70       |
| 96) 1,2,3-Trichlorobenzene    | 14.336 | 180   | 317      | 1.239 ug/l  | #      | 75       |
| -----                         |        |       |          |             |        |          |

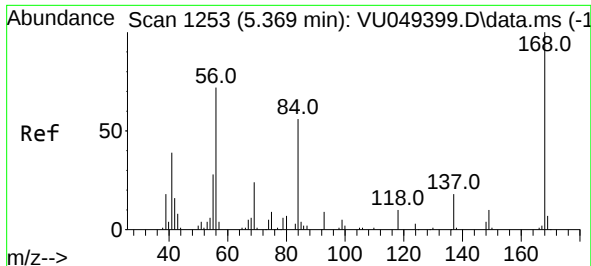
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_U\Data\VU062822\  
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Sample : N3457-12 10X  
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ALS Vial : 40 Sample Multiplier: 1

Instrument :  
MSVOA\_U  
ClientSampleId :  
RE103D2-20220620DL

Quant Time: Jun 29 05:25:01 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

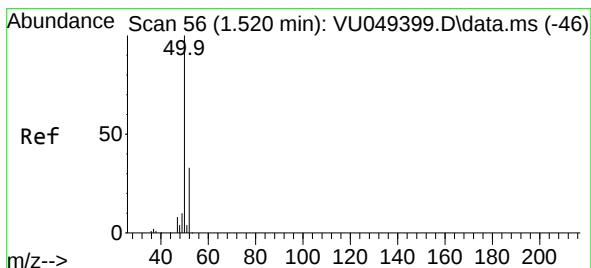
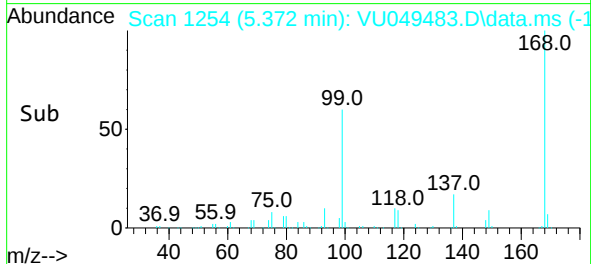
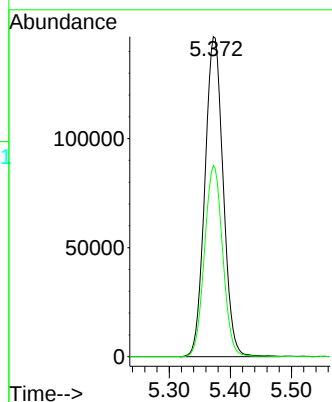
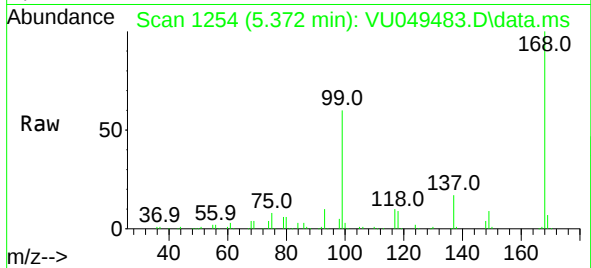




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 5.372 min Scan# 11  
Delta R.T. 0.003 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24

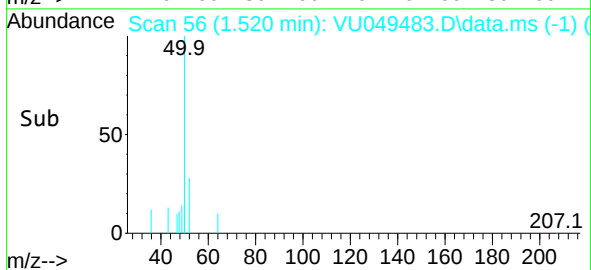
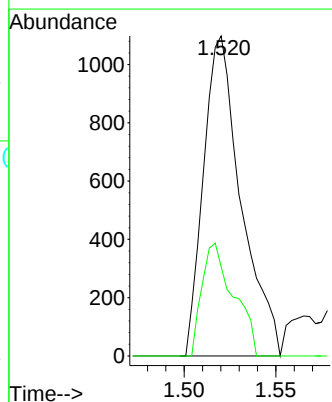
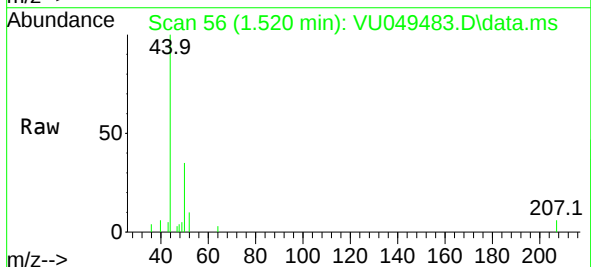
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE103D2-20220620DL

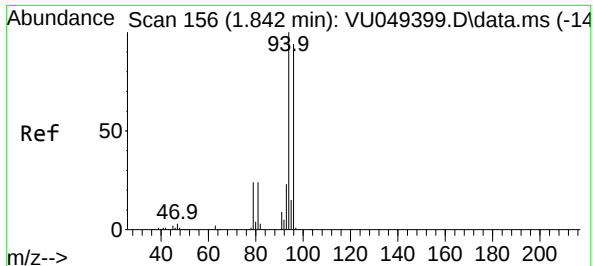
Tgt Ion:168 Resp: 304556  
Ion Ratio Lower Upper  
168 100  
99 59.8 39.3 58.9#



#3  
Chloromethane  
Concen: Below Cal  
RT: 1.520 min Scan# 56  
Delta R.T. 0.000 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24

Tgt Ion: 50 Resp: 1561  
Ion Ratio Lower Upper  
50 100  
52 27.9 27.4 41.2

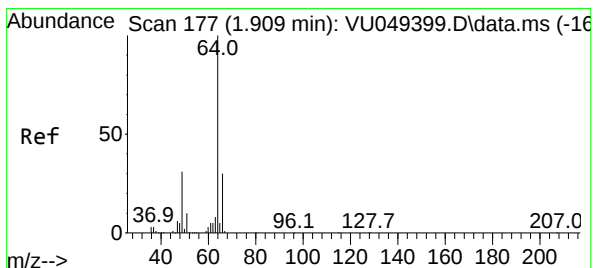
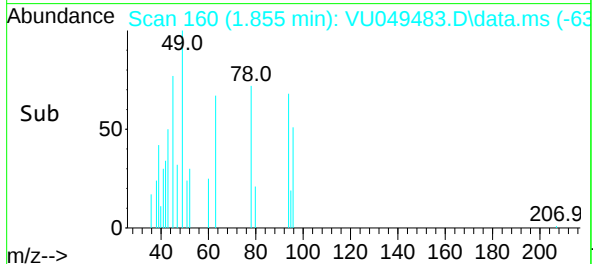
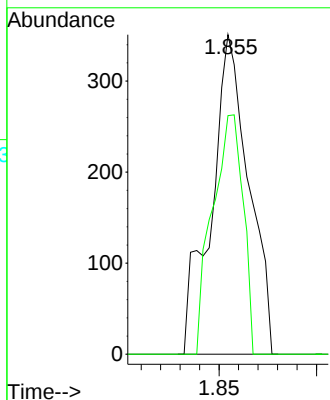
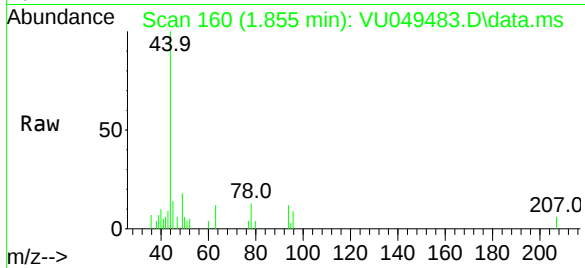




#5  
Bromomethane  
Concen: 0.307 ug/l  
RT: 1.855 min Scan# 1  
Delta R.T. 0.013 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24

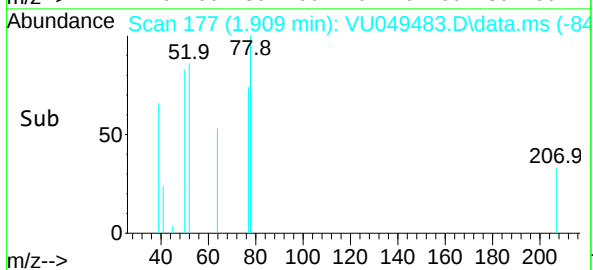
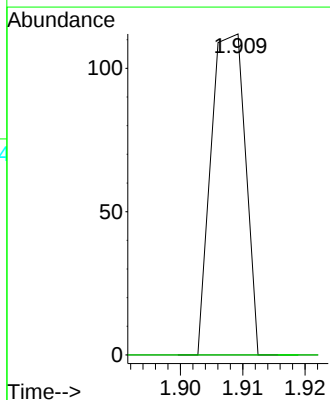
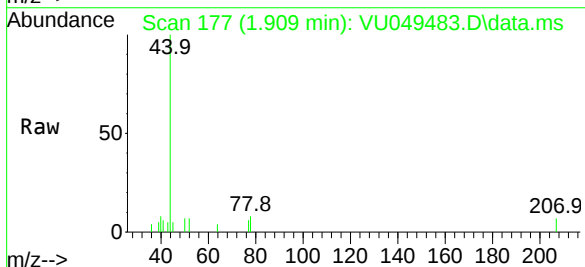
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE103D2-20220620DL

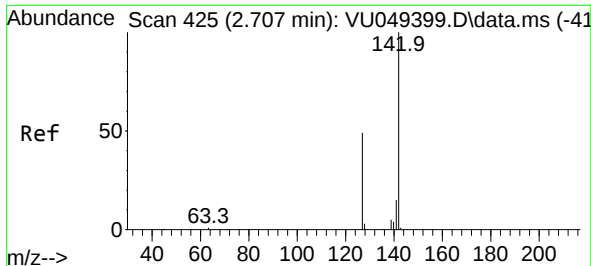
Tgt Ion: 94 Resp: 471  
Ion Ratio Lower Upper  
94 100  
96 74.6 73.7 110.5



#6  
Chloroethane  
Concen: 1.934 ug/l  
RT: 1.909 min Scan# 177  
Delta R.T. 0.000 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24

Tgt Ion: 64 Resp: 43  
Ion Ratio Lower Upper  
64 100  
66 0.0 24.7 37.1#

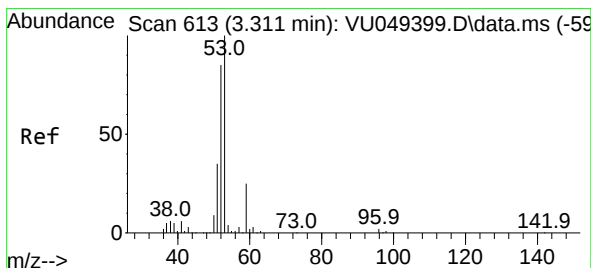
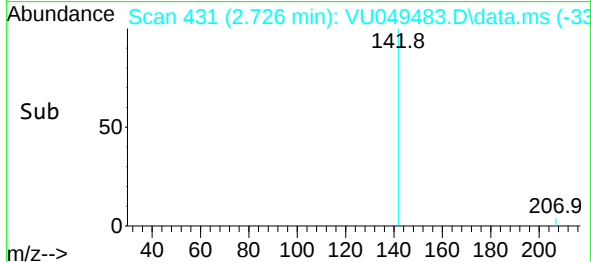
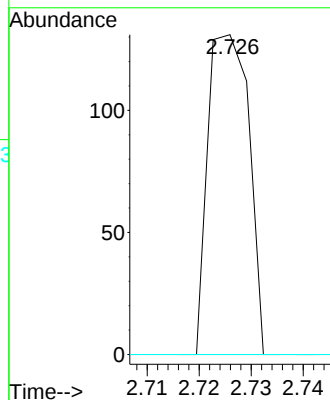
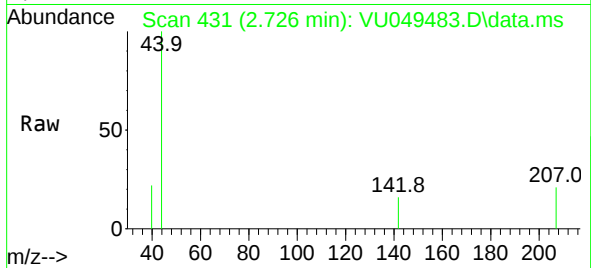




#10  
Methyl Iodide  
Concen: 7.531 ug/l  
RT: 2.726 min Scan# 41  
Delta R.T. 0.019 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24

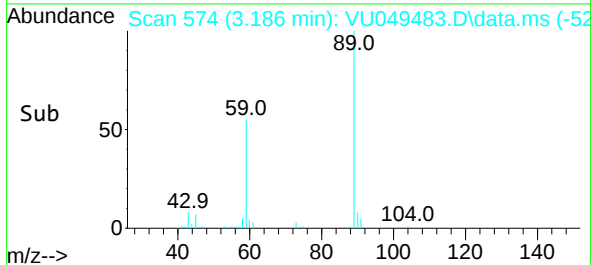
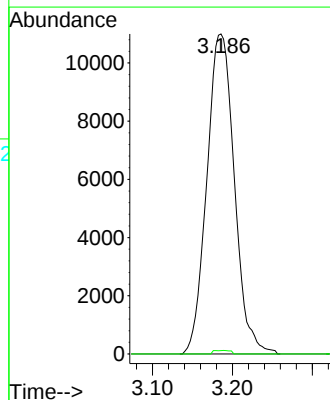
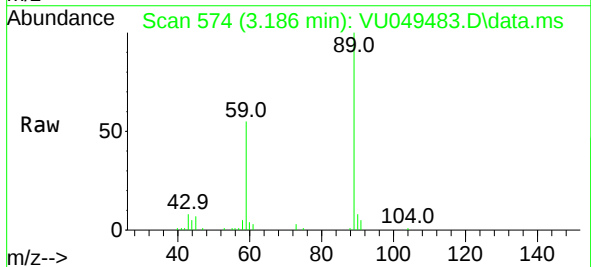
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE103D2-20220620DL

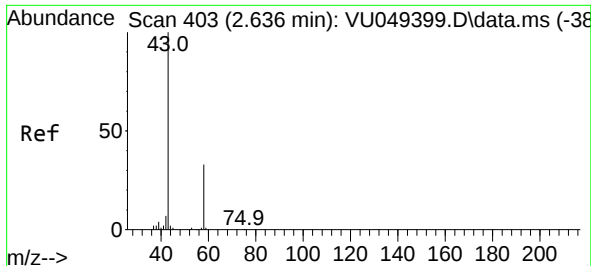
Tgt Ion:142 Resp: 72  
Ion Ratio Lower Upper  
142 100  
127 0.0 32.5 48.7#  
141 0.0 11.4 17.0#



#11  
Tert butyl alcohol  
Concen: 23.980 ug/l  
RT: 3.186 min Scan# 574  
Delta R.T. -0.125 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24

Tgt Ion: 59 Resp: 26326  
Ion Ratio Lower Upper  
59 100  
57 0.7 30.6 45.8#





#16

Acetone

Concen: 1.085 ug/l

RT: 2.646 min Scan# 403

Delta R.T. 0.010 min

Lab File: VU049483.D

Acq: 29 Jun 2022 01:24

Instrument :

MSVOA\_U

ClientSampleId :

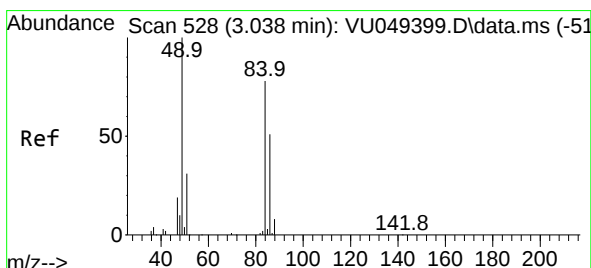
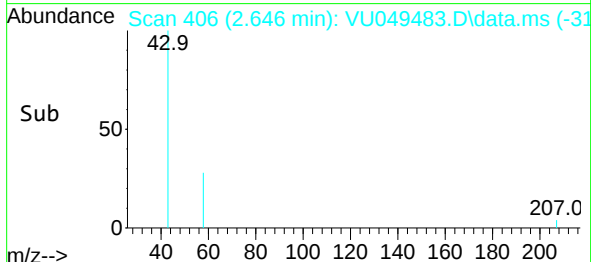
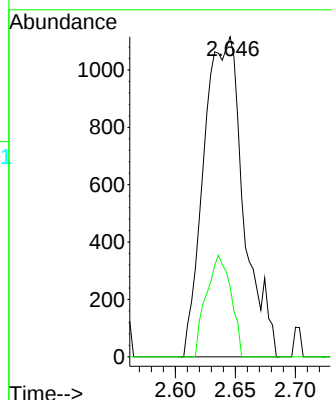
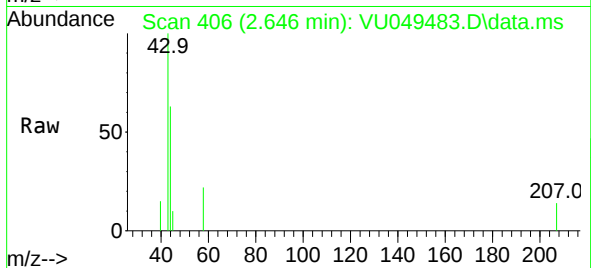
RE103D2-20220620DL

Tgt Ion: 43 Resp: 2566

Ion Ratio Lower Upper

43 100

58 21.9 27.5 41.3#



#20

Methylene Chloride

Concen: Below Cal

RT: 3.041 min Scan# 529

Delta R.T. 0.003 min

Lab File: VU049483.D

Acq: 29 Jun 2022 01:24

Tgt Ion: 84 Resp: 1600

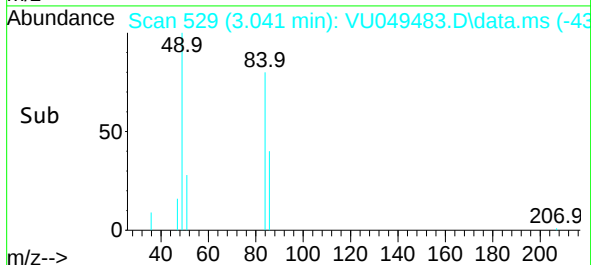
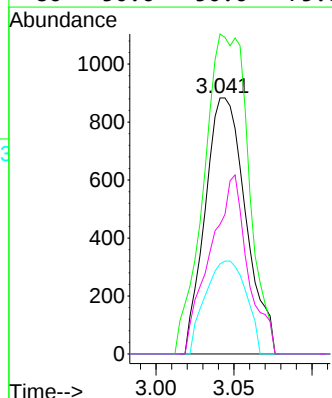
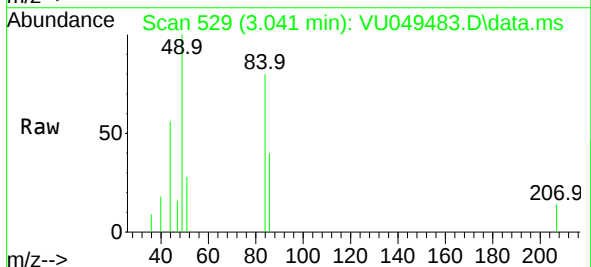
Ion Ratio Lower Upper

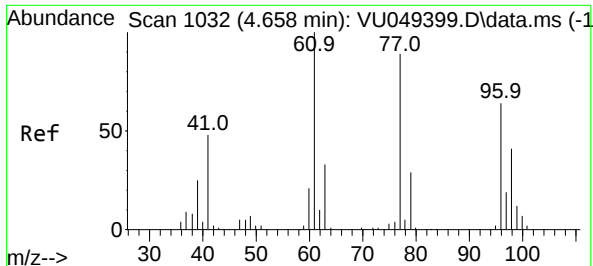
84 100

49 125.0 86.6 129.8

51 35.2 26.6 40.0

86 50.6 50.6 75.8





#26

2,2-Dichloropropane

Concen: 0.369 ug/l

RT: 4.645 min Scan# 11

Delta R.T. -0.013 min

Lab File: VU049483.D

Acq: 29 Jun 2022 01:24

Instrument :

MSVOA\_U

ClientSampleId :

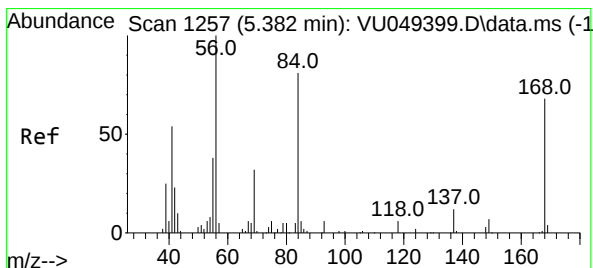
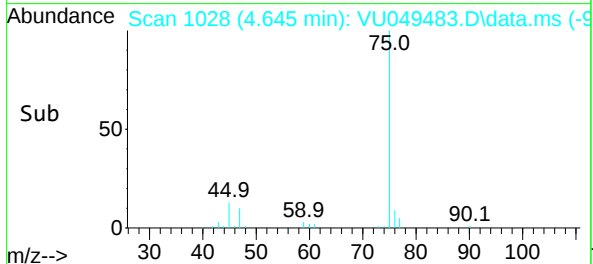
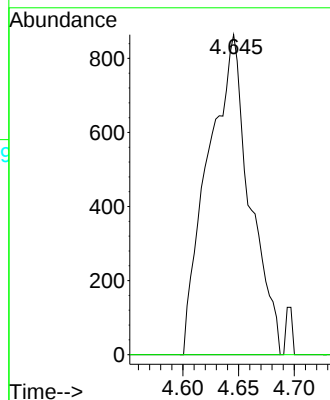
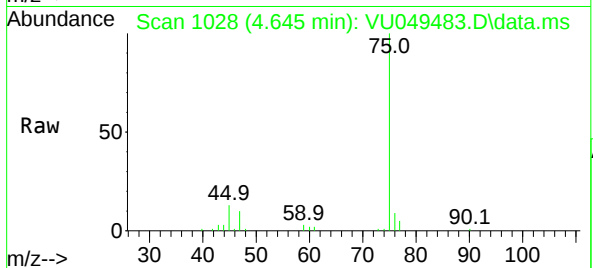
RE103D2-20220620DL

Tgt Ion: 77 Resp: 2253

Ion Ratio Lower Upper

77 100

97 0.0 11.6 34.8#



#31

Cyclohexane

Concen: 0.864 ug/l

RT: 5.372 min Scan# 1254

Delta R.T. -0.010 min

Lab File: VU049483.D

Acq: 29 Jun 2022 01:24

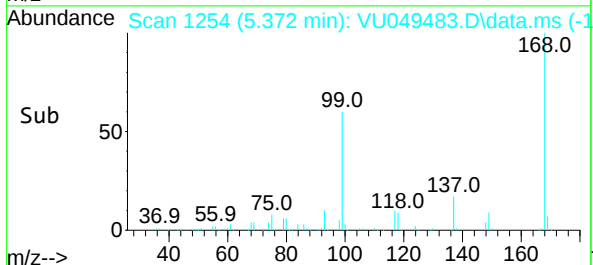
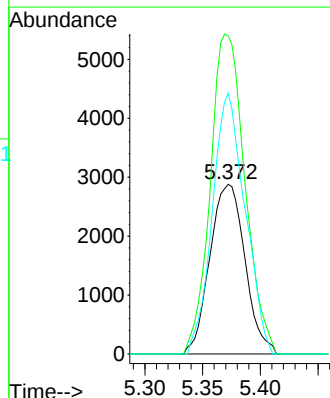
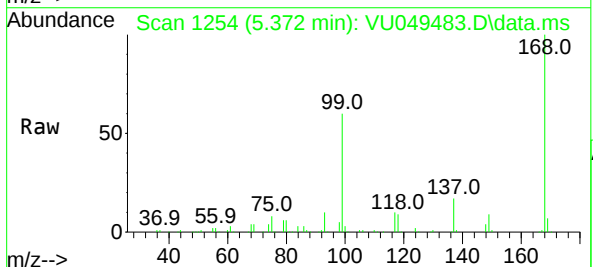
Tgt Ion: 56 Resp: 6087

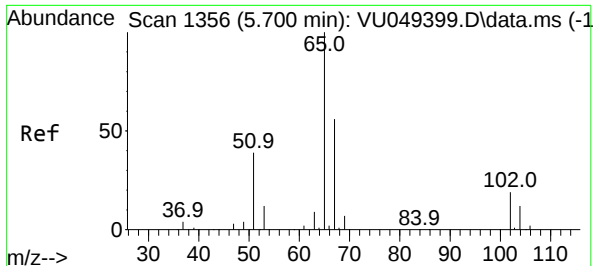
Ion Ratio Lower Upper

56 100

69 187.5 27.8 41.8#

84 153.7 74.2 111.4#





#33

1,2-Dichloroethane-d4

Concen: 43.545 ug/l

RT: 5.703 min Scan# 11

Delta R.T. 0.003 min

Lab File: VU049483.D

Acq: 29 Jun 2022 01:24

Instrument :

MSVOA\_U

ClientSampleId :

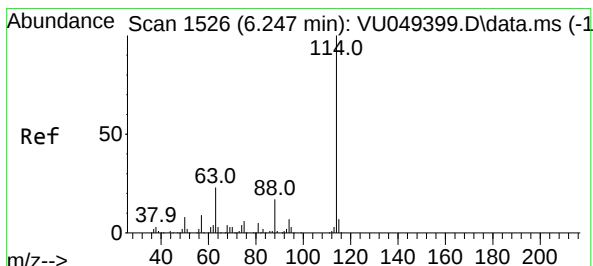
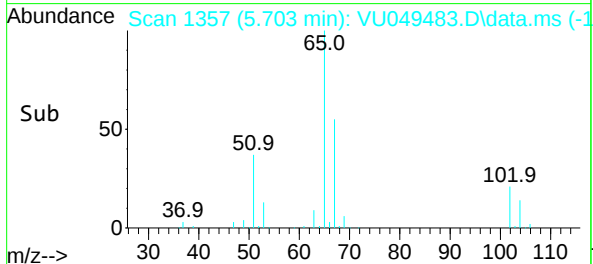
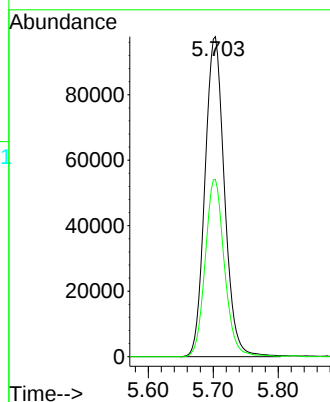
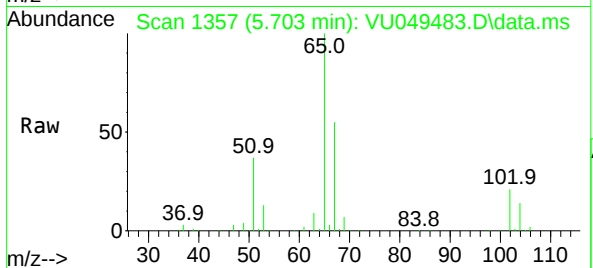
RE103D2-20220620DL

Tgt Ion: 65 Resp: 204240

Ion Ratio Lower Upper

65 100

67 54.7 0.0 108.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.247 min Scan# 1526

Delta R.T. 0.000 min

Lab File: VU049483.D

Acq: 29 Jun 2022 01:24

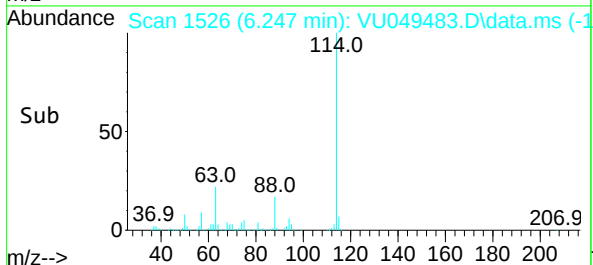
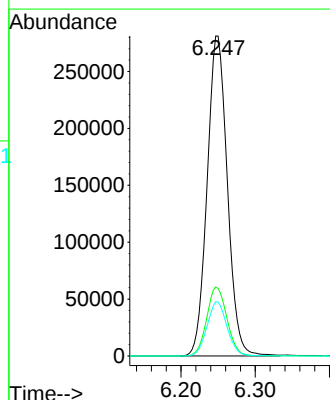
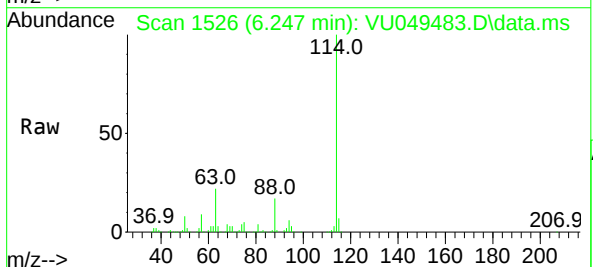
Tgt Ion: 114 Resp: 531302

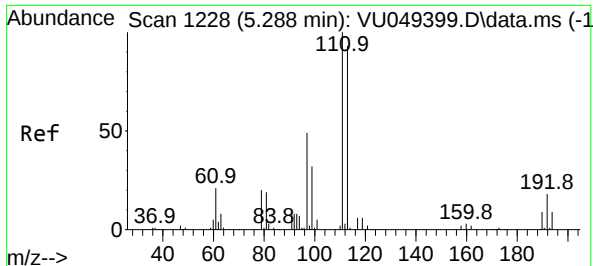
Ion Ratio Lower Upper

114 100

63 21.6 0.0 37.8

88 16.9 0.0 29.2

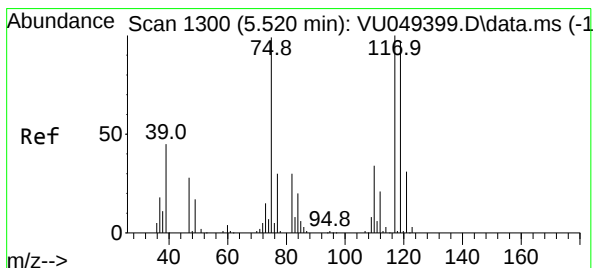
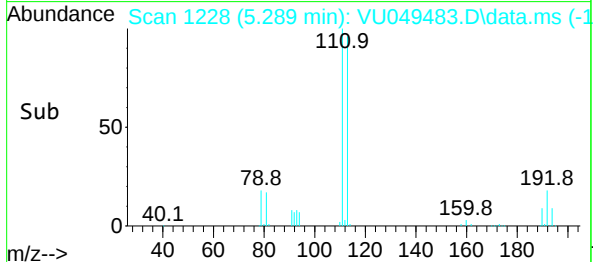
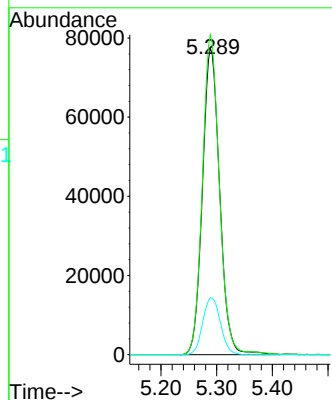
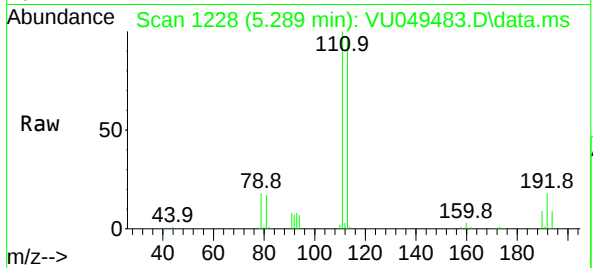




#35  
Dibromofluoromethane  
Concen: 44.832 ug/l  
RT: 5.289 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24

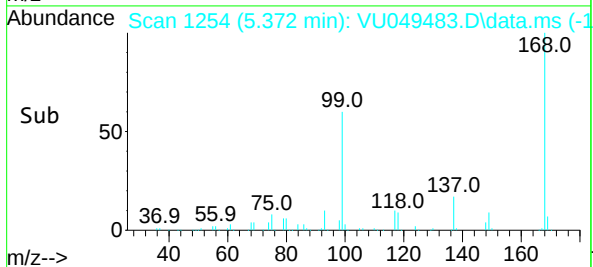
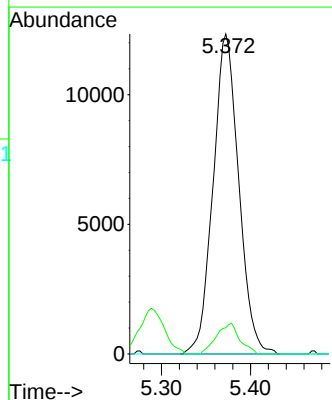
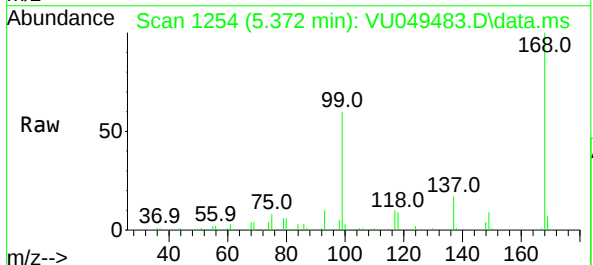
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE103D2-20220620DL

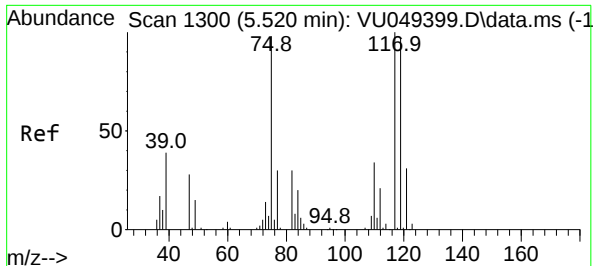
Tgt Ion:113 Resp: 166646  
Ion Ratio Lower Upper  
113 100  
111 102.0 82.1 123.1  
192 19.1 18.0 27.0



#36  
1,1-Dichloropropene  
Concen: 4.571 ug/l  
RT: 5.372 min Scan# 1254  
Delta R.T. -0.148 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24

Tgt Ion: 75 Resp: 24638  
Ion Ratio Lower Upper  
75 100  
110 8.7 18.4 55.2#  
77 0.0 25.1 37.7#

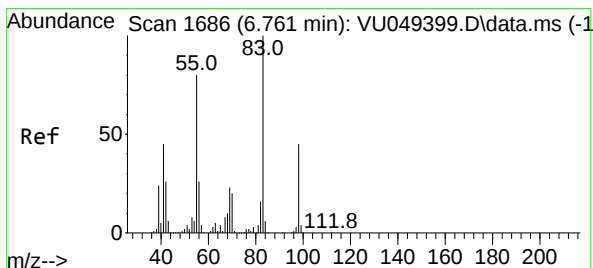
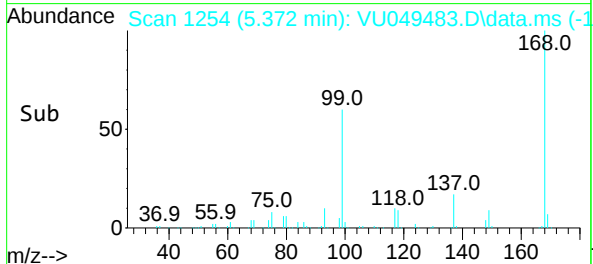
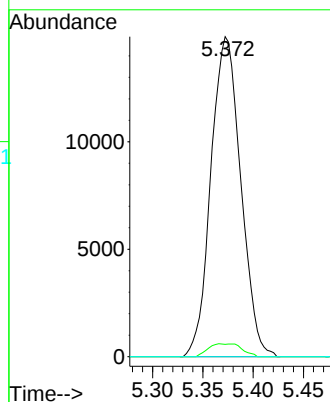
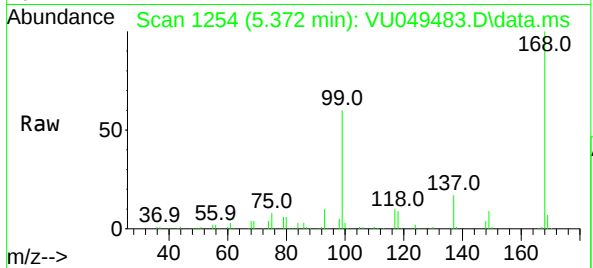




#38  
Carbon Tetrachloride  
Concen: 5.440 ug/l  
RT: 5.372 min Scan# 117  
Delta R.T. -0.148 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24

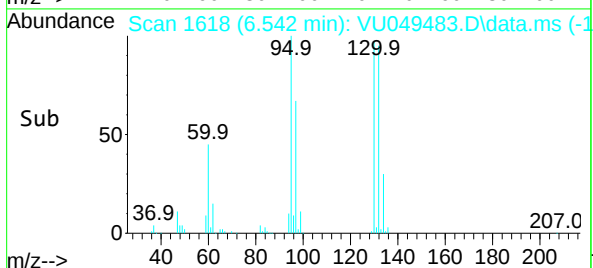
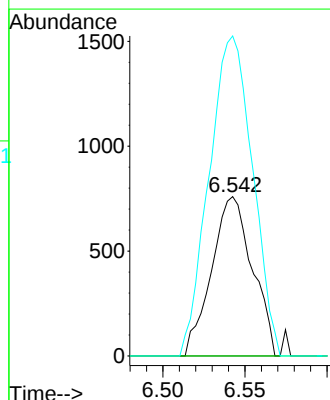
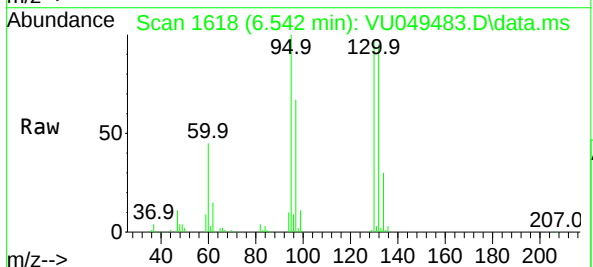
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE103D2-20220620DL

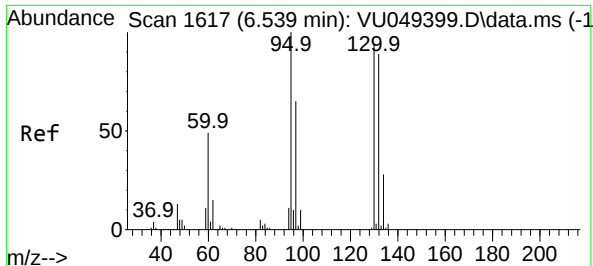
Tgt Ion:117 Resp: 30749  
Ion Ratio Lower Upper  
117 100  
119 3.9 76.8 115.2#  
121 0.0 24.7 37.1#



#39  
Methylcyclohexane  
Concen: 0.203 ug/l  
RT: 6.542 min Scan# 1618  
Delta R.T. -0.219 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24

Tgt Ion: 83 Resp: 1312  
Ion Ratio Lower Upper  
83 100  
55 0.0 55.3 82.9#  
98 200.8 37.3 55.9#

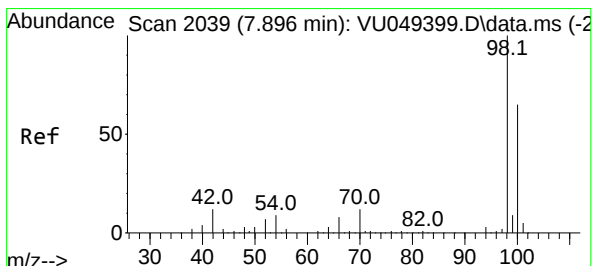
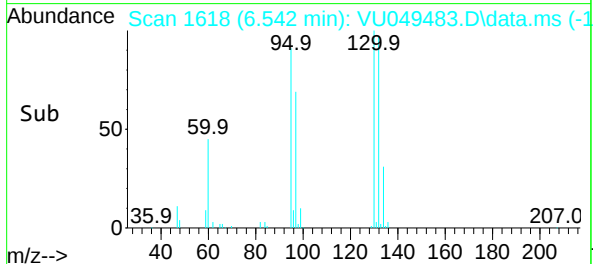
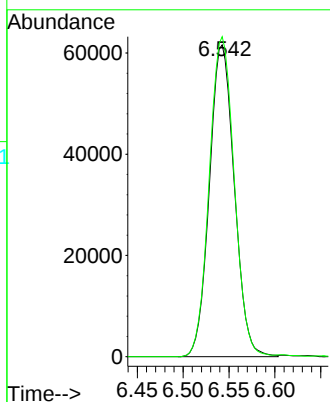
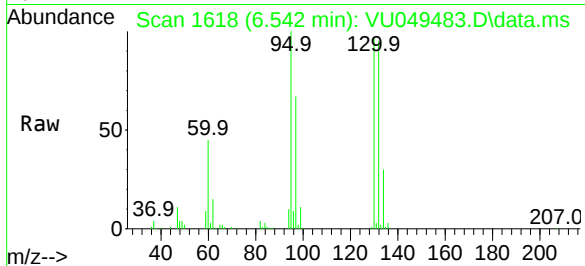




#44  
 Trichloroethene  
 Concen: 30.049 ug/l  
 RT: 6.542 min Scan# 1  
 Delta R.T. 0.003 min  
 Lab File: VU049483.D  
 Acq: 29 Jun 2022 01:24

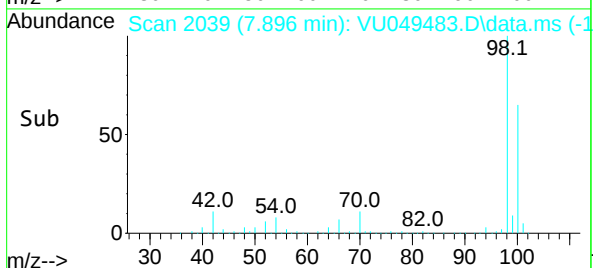
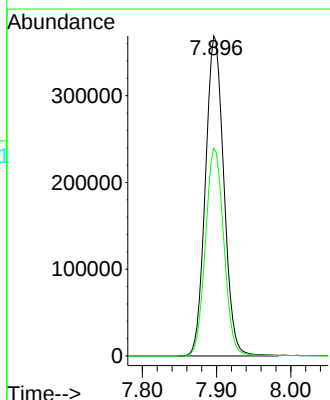
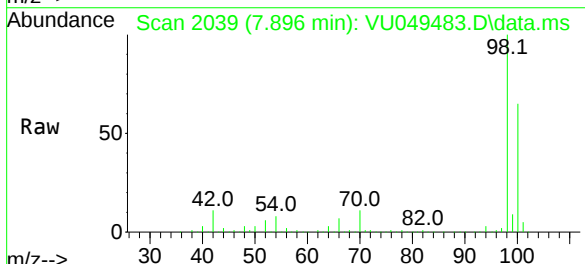
Instrument :  
 MSVOA\_U  
 ClientSampleId :  
 RE103D2-20220620DL

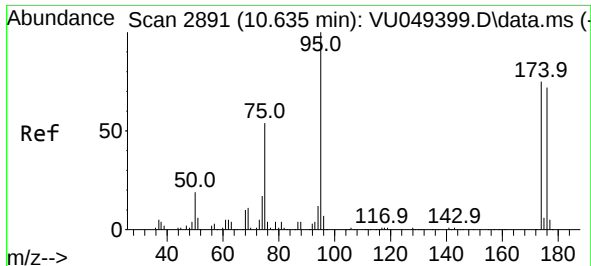
Tgt Ion:130 Resp: 116239  
 Ion Ratio Lower Upper  
 130 100  
 95 102.6 0.0 184.6



#50  
 Toluene-d8  
 Concen: 47.816 ug/l  
 RT: 7.896 min Scan# 2039  
 Delta R.T. 0.000 min  
 Lab File: VU049483.D  
 Acq: 29 Jun 2022 01:24

Tgt Ion: 98 Resp: 633948  
 Ion Ratio Lower Upper  
 98 100  
 100 64.8 51.7 77.5

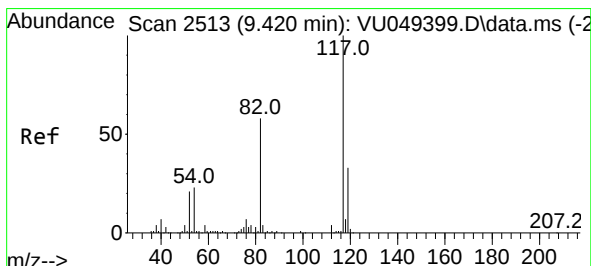
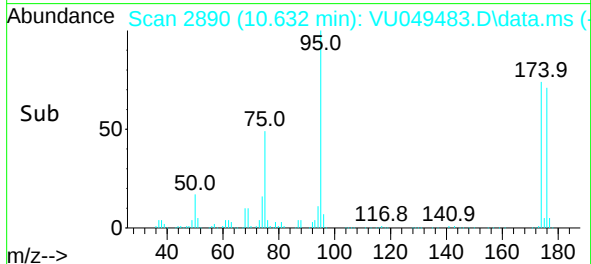
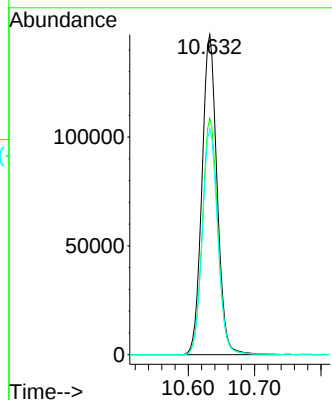
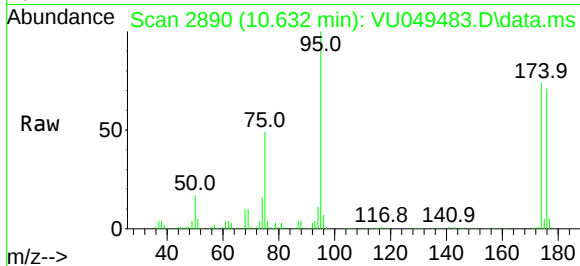




#62  
 4-Bromofluorobenzene  
 Concen: 45.921 ug/l  
 RT: 10.632 min Scan# 21  
 Delta R.T. -0.003 min  
 Lab File: VU049483.D  
 Acq: 29 Jun 2022 01:24

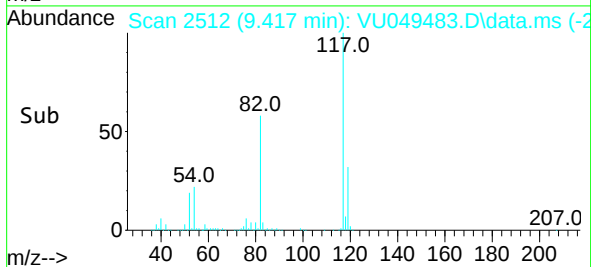
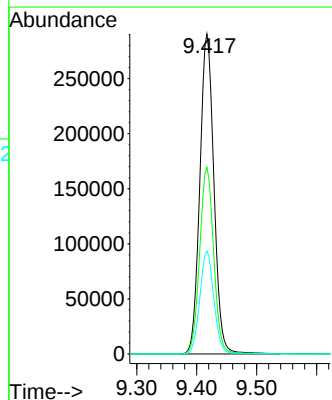
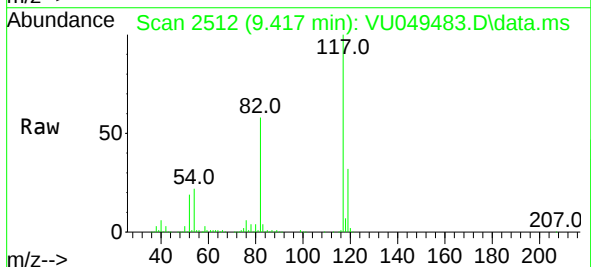
Instrument :  
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 ClientSampleId :  
 RE103D2-20220620DL

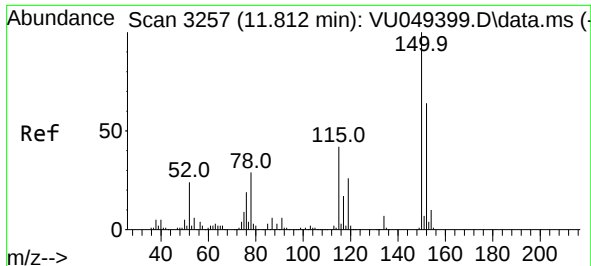
Tgt Ion: 95 Resp: 233217  
 Ion Ratio Lower Upper  
 95 100  
 174 75.2 0.0 182.0  
 176 72.0 0.0 177.8



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 9.417 min Scan# 2512  
 Delta R.T. -0.003 min  
 Lab File: VU049483.D  
 Acq: 29 Jun 2022 01:24

Tgt Ion: 117 Resp: 476225  
 Ion Ratio Lower Upper  
 117 100  
 82 58.3 41.7 62.5  
 119 32.2 25.7 38.5

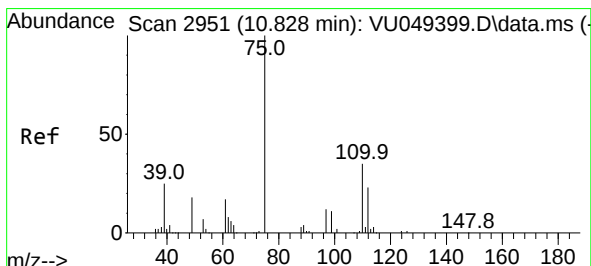
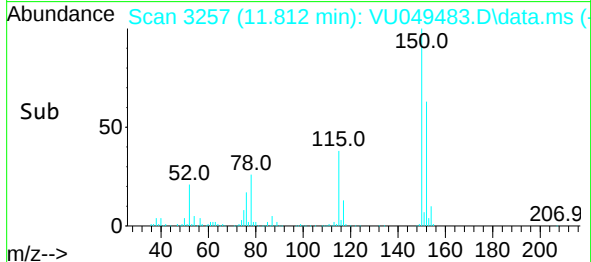
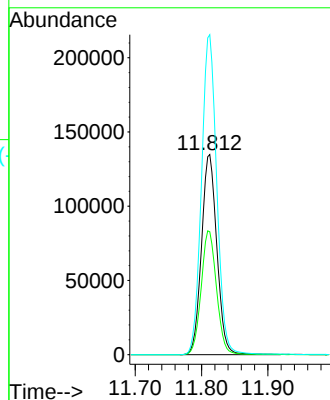
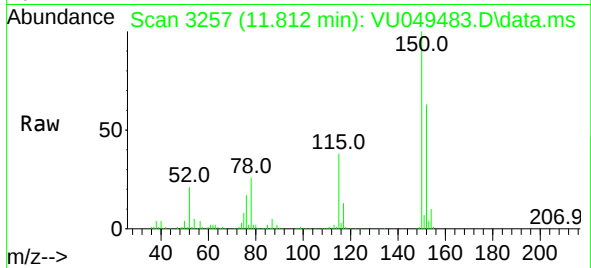




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 11.812 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: VU049483.D  
 Acq: 29 Jun 2022 01:24

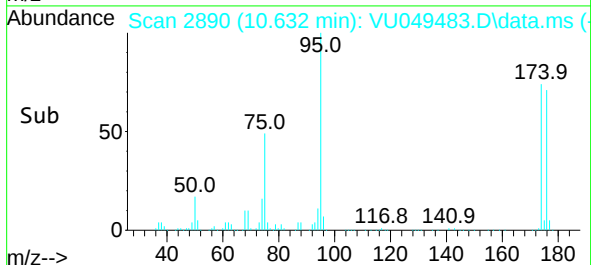
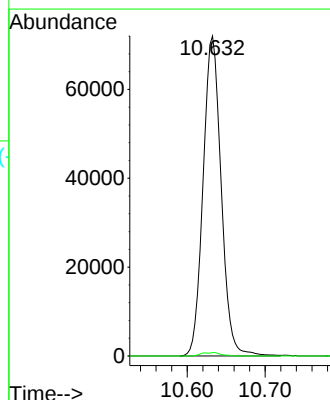
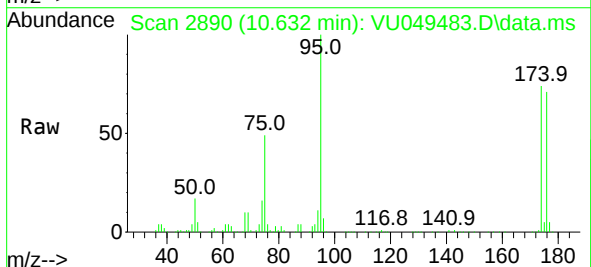
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 ClientSampleId :  
 RE103D2-20220620DL

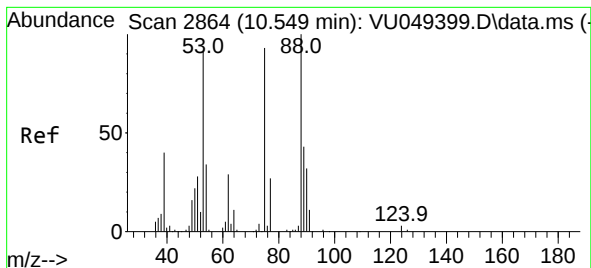
Tgt Ion:152 Resp: 216918  
 Ion Ratio Lower Upper  
 152 100  
 115 61.6 37.0 110.9  
 150 159.3 0.0 342.2



#76  
 1,2,3-Trichloropropane  
 Concen: 15.778 ug/l  
 RT: 10.632 min Scan# 2890  
 Delta R.T. -0.196 min  
 Lab File: VU049483.D  
 Acq: 29 Jun 2022 01:24

Tgt Ion: 75 Resp: 116019  
 Ion Ratio Lower Upper  
 75 100  
 77 0.5 15.8 47.3#

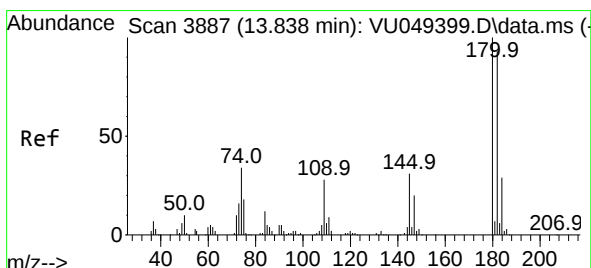
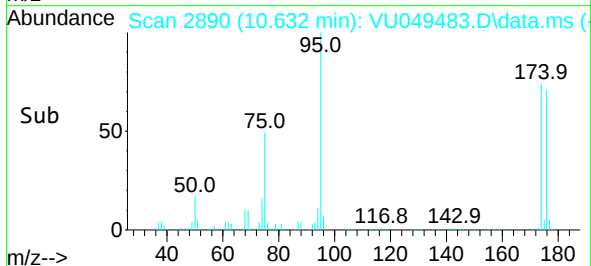
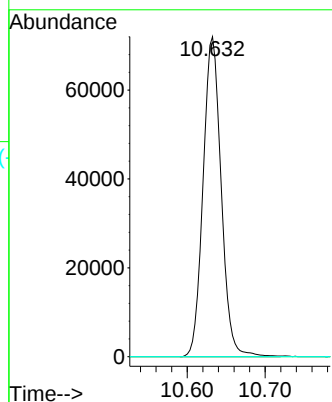
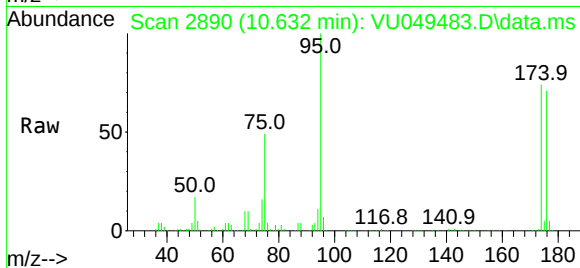




#81  
trans-1,4-Dichloro-2-butene  
Concen: 58.265 ug/l  
RT: 10.632 min Scan# 21  
Delta R.T. 0.084 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24

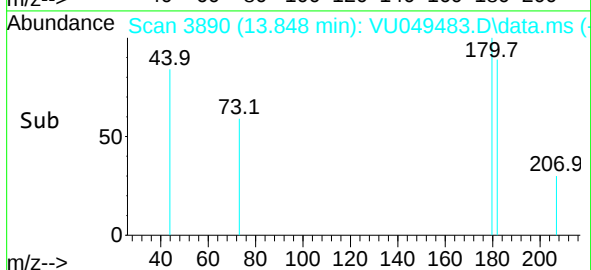
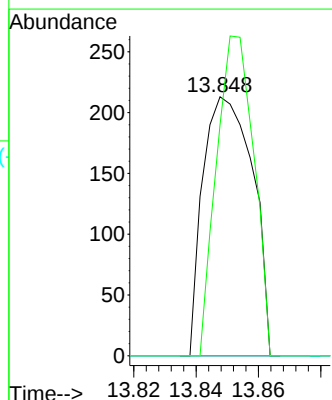
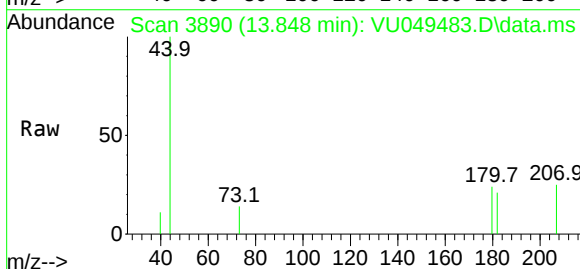
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ClientSampleId :  
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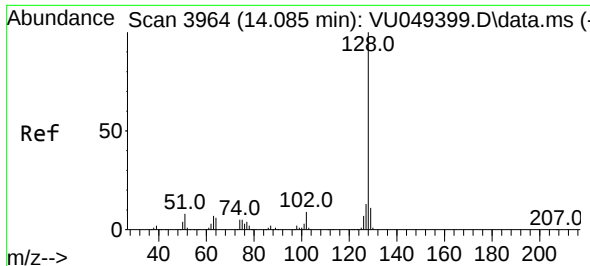
Tgt Ion: 75 Resp: 116019  
Ion Ratio Lower Upper  
75 100  
53 0.0 69.2 103.8#  
89 0.0 37.0 55.6#



#93  
1,2,4-Trichlorobenzene  
Concen: 1.800 ug/l  
RT: 13.848 min Scan# 3890  
Delta R.T. 0.010 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24

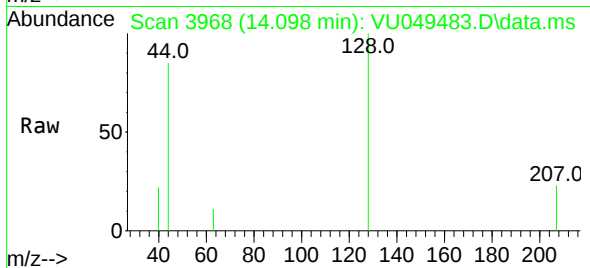
Tgt Ion:180 Resp: 235  
Ion Ratio Lower Upper  
180 100  
182 92.8 47.9 143.6  
145 0.0 14.0 41.9#



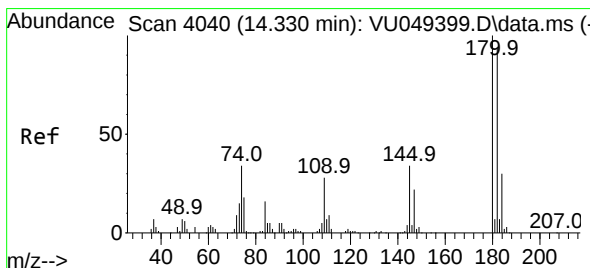
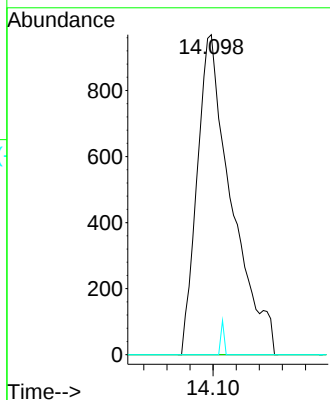
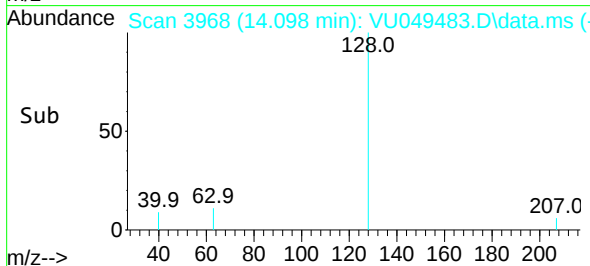


#95  
Naphthalene  
Concen: 1.849 ug/l  
RT: 14.098 min Scan# 3968  
Delta R.T. 0.013 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24

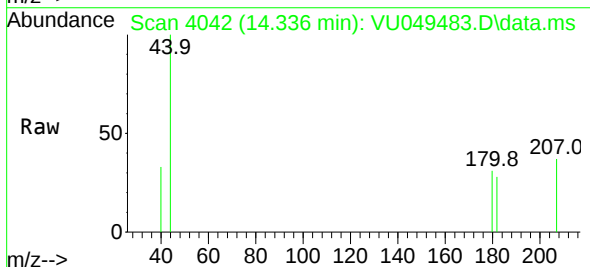
Instrument :  
MSVOA\_U  
ClientSampleId :  
RE103D2-20220620DL



Tgt Ion:128 Resp: 1997  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.3 15.5#  
129 1.0 8.6 13.0#



#96  
1,2,3-Trichlorobenzene  
Concen: 1.239 ug/l  
RT: 14.336 min Scan# 4042  
Delta R.T. 0.007 min  
Lab File: VU049483.D  
Acq: 29 Jun 2022 01:24



Tgt Ion:180 Resp: 317  
Ion Ratio Lower Upper  
180 100  
182 112.6 48.4 145.0  
145 0.0 14.8 44.4#

