

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052224\  
 Data File : VD078990.D  
 Acq On : 22 May 2024 20:12  
 Operator : RP/MD  
 Sample : P2511-01  
 Misc : 5.06G/5ml/MSVOA\_D/SOIL/B  
 ALS Vial : 17 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 510-C

Quant Time: May 23 06:08:32 2024  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051324S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue May 14 06:21:28 2024  
 Response via : Initial Calibration

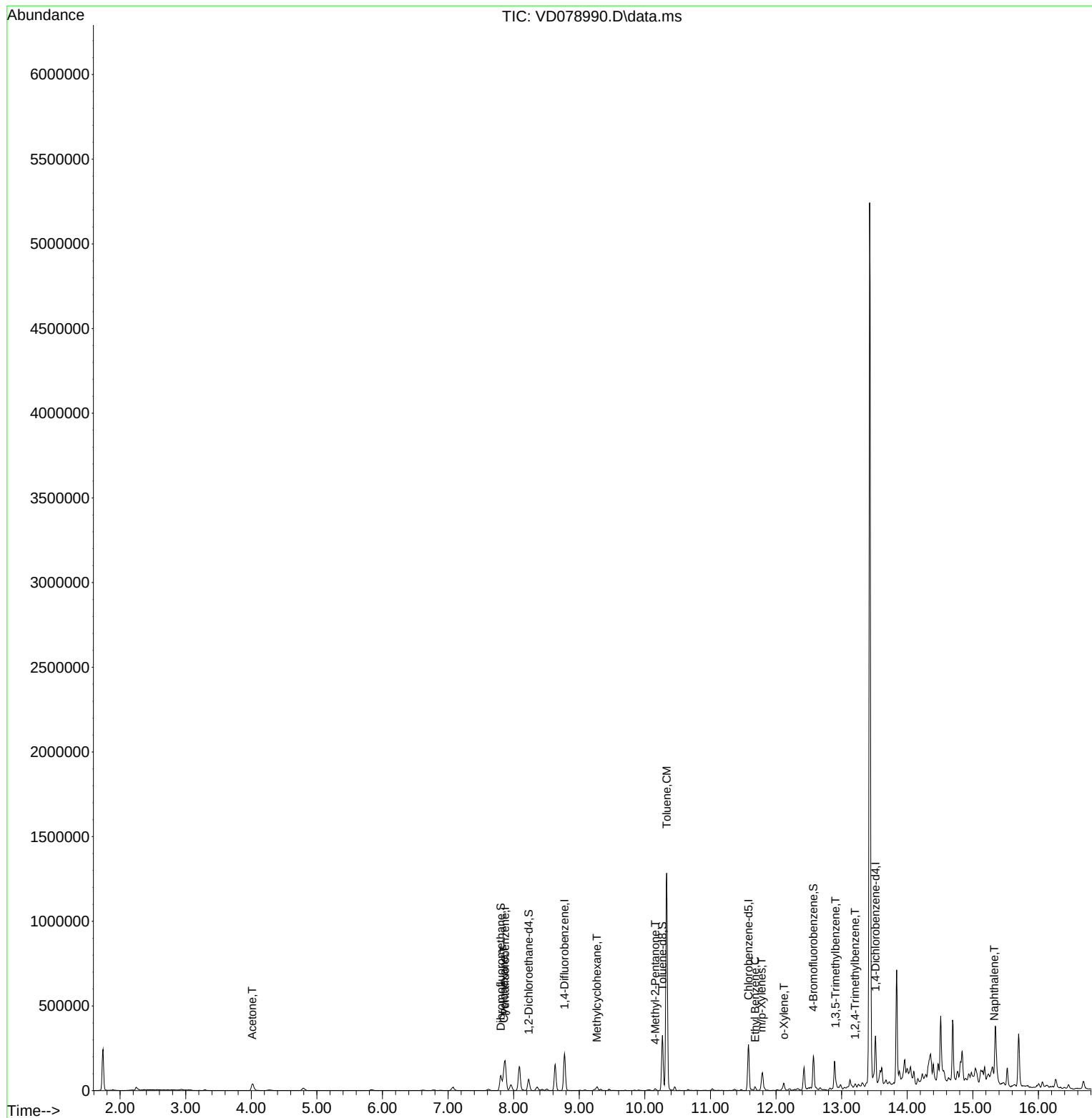
| Compound                    | R.T. QIon |       | Response | Conc     | Units      | Dev(Min) |
|-----------------------------|-----------|-------|----------|----------|------------|----------|
| -----                       |           |       |          |          |            |          |
| Internal Standards          |           |       |          |          |            |          |
| 1) Pentafluorobenzene       | 7.869     | 168   | 102970   | 50.000   | ug/l       | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.775     | 114   | 204745   | 50.000   | ug/l       | 0.00     |
| 63) Chlorobenzene-d5        | 11.581    | 117   | 166440   | 50.000   | ug/l       | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.516    | 152   | 64913    | 50.000   | ug/l       | 0.00     |
| System Monitoring Compounds |           |       |          |          |            |          |
| 33) 1,2-Dichloroethane-d4   | 8.228     | 65    | 49048    | 50.782   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 50 - 163 | Recovery | = 101.560% |          |
| 35) Dibromofluoromethane    | 7.804     | 113   | 62335    | 45.736   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 54 - 147 | Recovery | = 91.480%  |          |
| 50) Toluene-d8              | 10.269    | 98    | 227759   | 44.577   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 58 - 134 | Recovery | = 89.160%  |          |
| 62) 4-Bromofluorobenzene    | 12.569    | 95    | 59407    | 41.388   | ug/l       | 0.00     |
| Spiked Amount               | 50.000    | Range | 30 - 143 | Recovery | = 82.780%  |          |
| Target Compounds            |           |       |          |          |            |          |
|                             |           |       |          |          | Qvalue     |          |
| 16) Acetone                 | 4.016     | 43    | 66114    | 429.306  | ug/l       | 99       |
| 31) Cyclohexane             | 7.851     | 56    | 24408    | 17.297   | ug/l #     | 43       |
| 39) Methylcyclohexane       | 9.269     | 83    | 7695     | 3.734    | ug/l #     | 77       |
| 51) 4-Methyl-2-Pentanone    | 10.157    | 43    | 6786     | 12.423   | ug/l       | 97       |
| 52) Toluene                 | 10.334    | 92    | 573217   | 163.245  | ug/l       | 99       |
| 67) Ethyl Benzene           | 11.681    | 91    | 15446    | 2.774    | ug/l #     | 85       |
| 68) m/p-Xylenes             | 11.781    | 106   | 28895    | 12.763   | ug/l       | 93       |
| 69) o-Xylene                | 12.122    | 106   | 10989    | 5.324    | ug/l       | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.904    | 105   | 4780     | 1.485    | ug/l       | 91       |
| 84) 1,2,4-Trimethylbenzene  | 13.204    | 105   | 13972    | 4.191    | ug/l       | 97       |
| 95) Naphthalene             | 15.328    | 128   | 4299     | 2.383    | ug/l #     | 83       |
| -----                       |           |       |          |          |            |          |

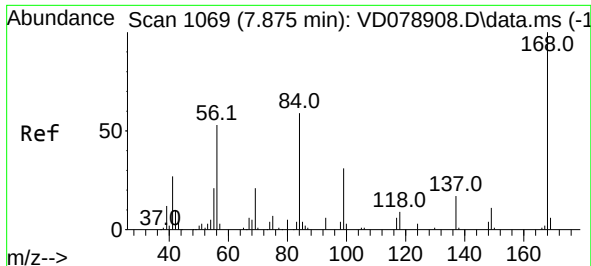
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD052224\  
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ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
510-C

Quant Time: May 23 06:08:32 2024  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D051324S.M  
Quant Title : SW846 8260  
QLast Update : Tue May 14 06:21:28 2024  
Response via : Initial Calibration

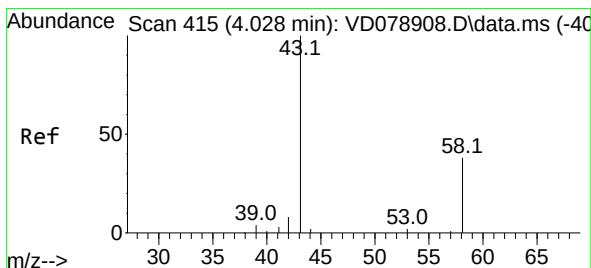
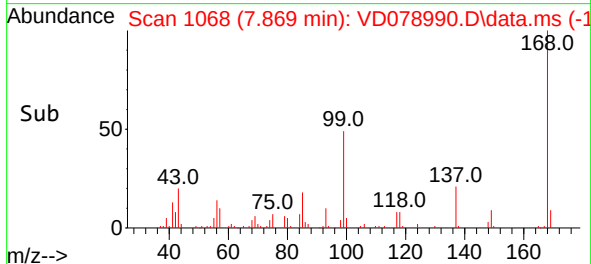
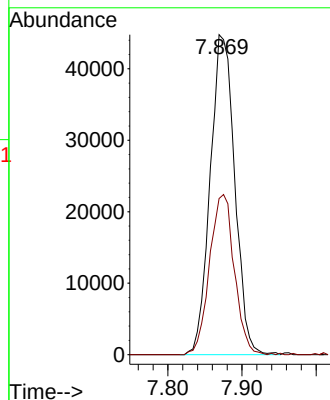
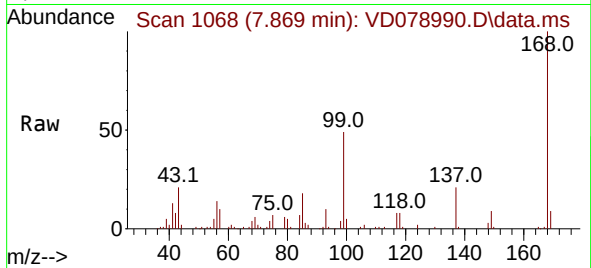




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.869 min Scan# 1068  
Delta R.T. -0.006 min  
Lab File: VD078990.D  
Acq: 22 May 2024 20:12

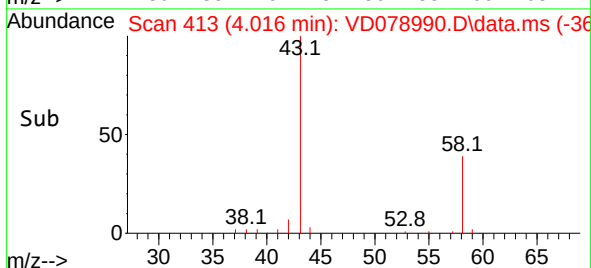
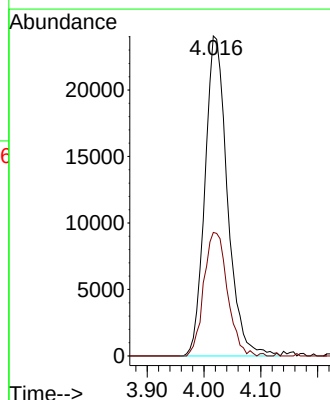
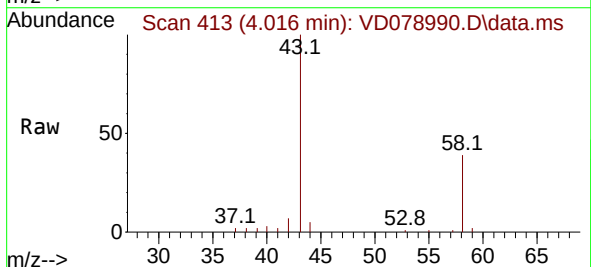
Instrument :  
MSVOA\_D  
ClientSampleId :  
510-C

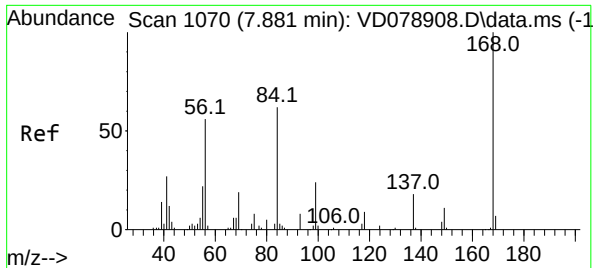
Tgt Ion:168 Resp: 102970  
Ion Ratio Lower Upper  
168 100  
99 48.8 41.1 61.7



#16  
Acetone  
Concen: 429.306 ug/l  
RT: 4.016 min Scan# 413  
Delta R.T. -0.011 min  
Lab File: VD078990.D  
Acq: 22 May 2024 20:12

Tgt Ion: 43 Resp: 66114  
Ion Ratio Lower Upper  
43 100  
58 38.6 30.4 45.6

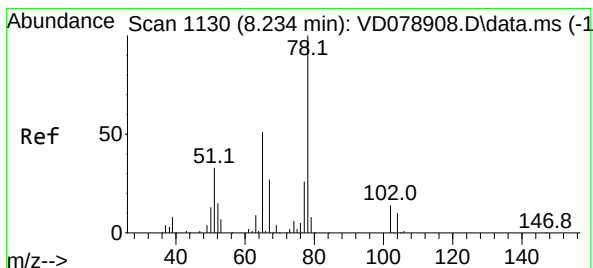
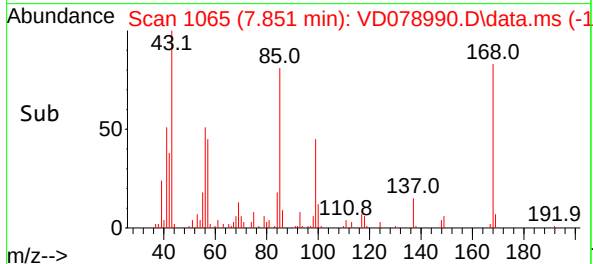
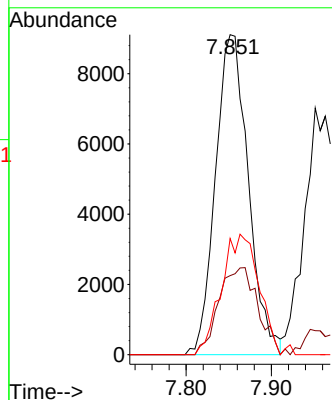
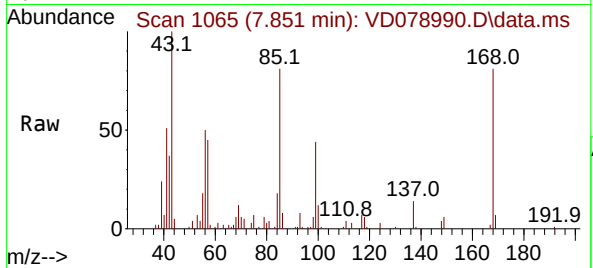




#31  
Cyclohexane  
Concen: 17.297 ug/l  
RT: 7.851 min Scan# 1105  
Delta R.T. -0.029 min  
Lab File: VD078990.D  
Acq: 22 May 2024 20:12

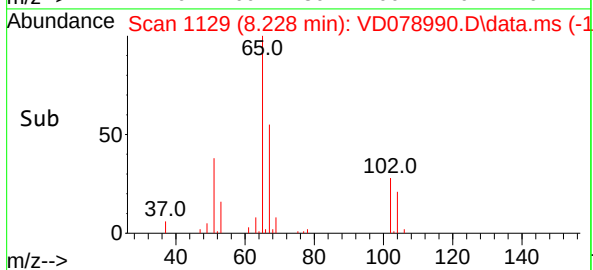
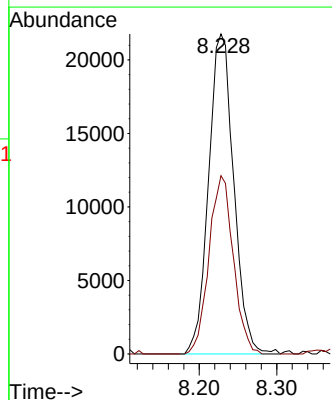
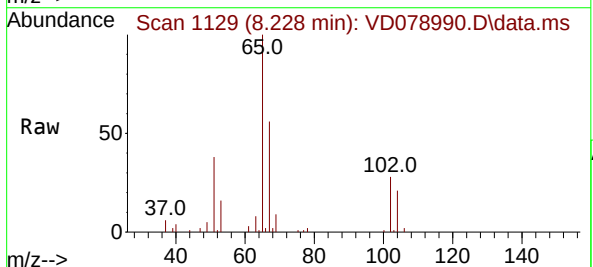
Instrument :  
MSVOA\_D  
ClientSampleId :  
510-C

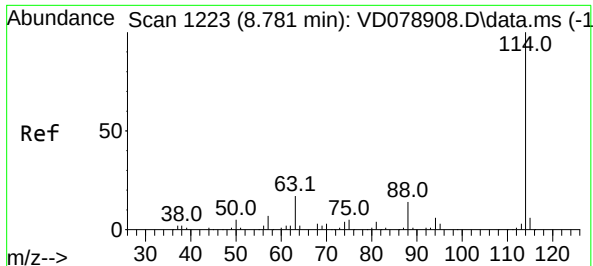
Tgt Ion: 56 Resp: 24408  
Ion Ratio Lower Upper  
56 100  
69 24.7 28.0 42.0#  
84 36.3 87.4 131.0#



#33  
1,2-Dichloroethane-d4  
Concen: 50.782 ug/l  
RT: 8.228 min Scan# 1129  
Delta R.T. -0.006 min  
Lab File: VD078990.D  
Acq: 22 May 2024 20:12

Tgt Ion: 65 Resp: 49048  
Ion Ratio Lower Upper  
65 100  
67 53.9 0.0 111.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

Instrument :

MSVOA\_D

ClientSampleId :

510-C

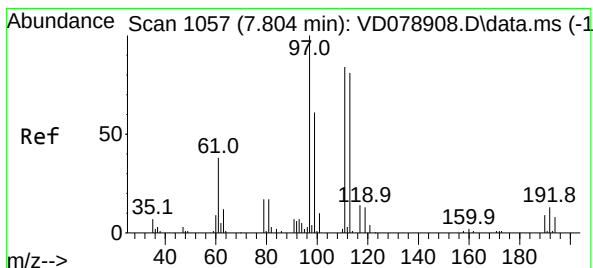
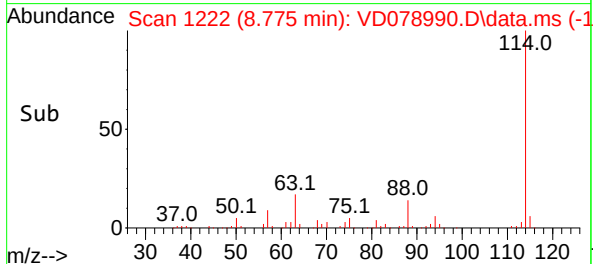
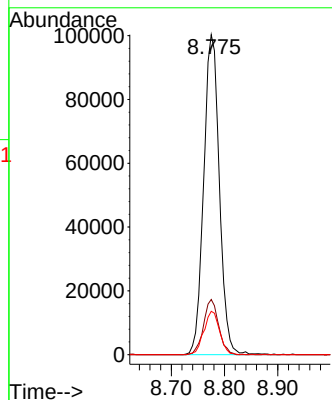
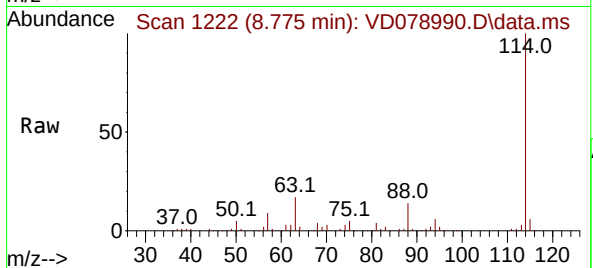
Tgt Ion:114 Resp: 204745

Ion Ratio Lower Upper

114 100

63 17.2 0.0 34.0

88 13.6 0.0 27.2



#35

Dibromofluoromethane

Concen: 45.736 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. 0.000 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

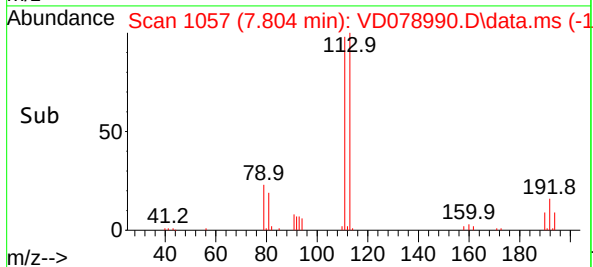
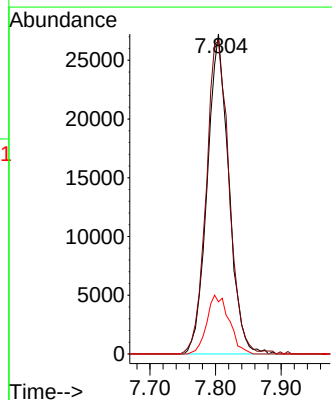
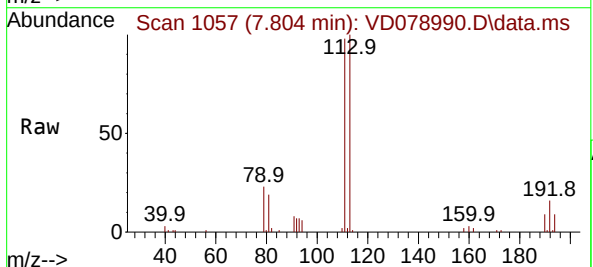
Tgt Ion:113 Resp: 62335

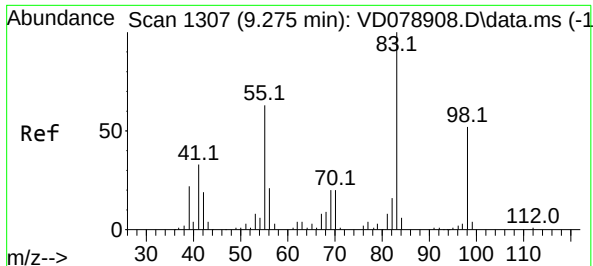
Ion Ratio Lower Upper

113 100

111 103.8 84.0 126.0

192 19.0 15.4 23.0





#39

Methylcyclohexane

Concen: 3.734 ug/l

RT: 9.269 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

Instrument :

MSVOA\_D

ClientSampleId :

510-C

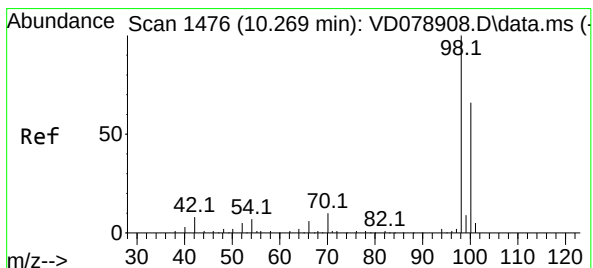
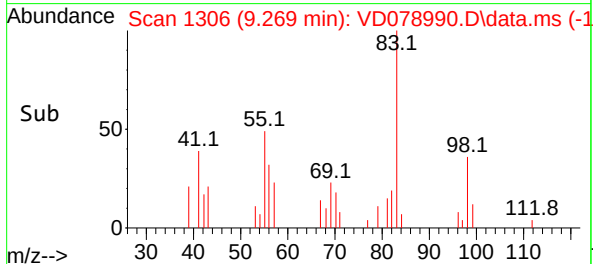
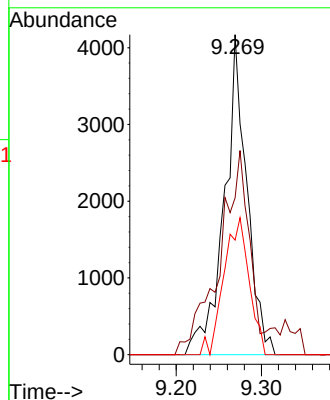
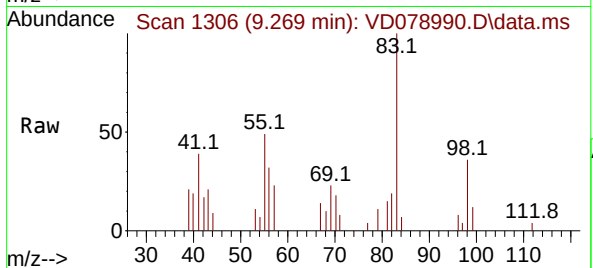
Tgt Ion: 83 Resp: 7695

Ion Ratio Lower Upper

83 100

55 44.9 50.1 75.1#

98 35.8 41.9 62.9#



#50

Toluene-d8

Concen: 44.577 ug/l

RT: 10.269 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VD078990.D

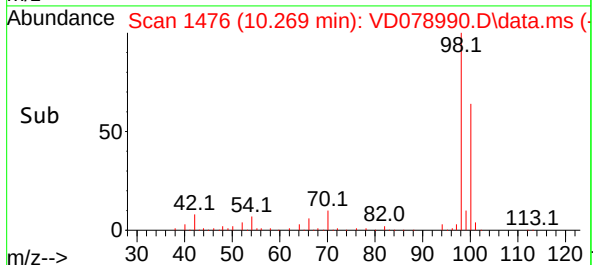
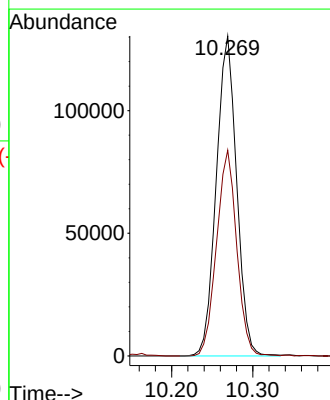
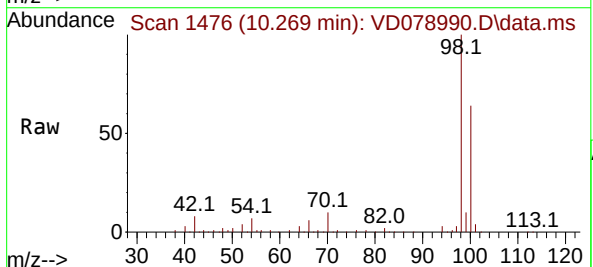
Acq: 22 May 2024 20:12

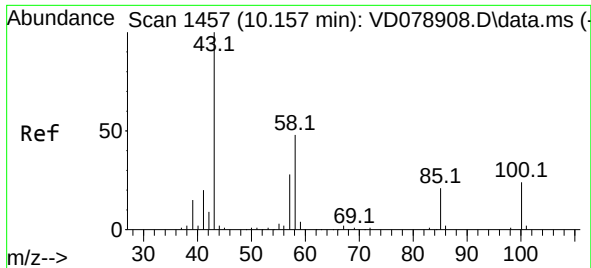
Tgt Ion: 98 Resp: 227759

Ion Ratio Lower Upper

98 100

100 63.7 51.6 77.4





#51

4-Methyl-2-Pentanone

Concen: 12.423 ug/l

RT: 10.157 min Scan# 1457

Delta R.T. 0.000 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

Instrument :

MSVOA\_D

ClientSampleId :

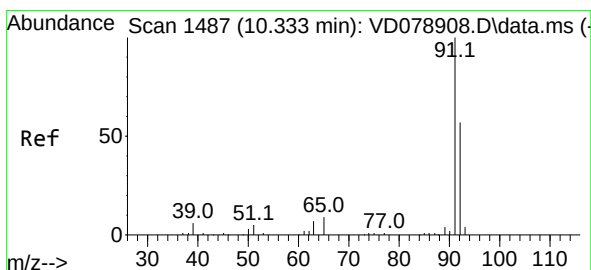
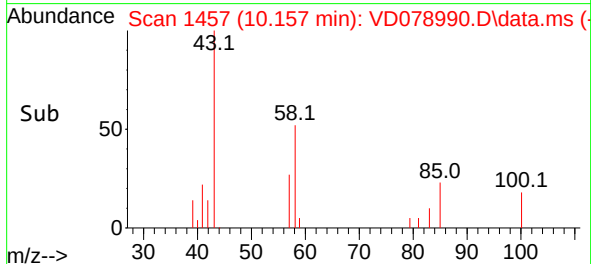
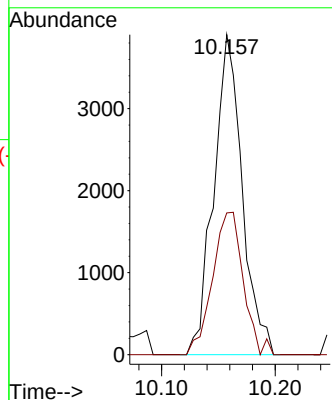
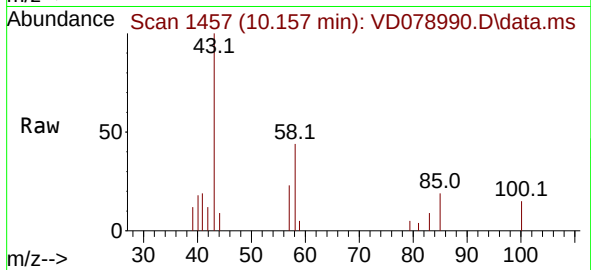
510-C

Tgt Ion: 43 Resp: 6786

Ion Ratio Lower Upper

43 100

58 48.0 36.6 55.0



#52

Toluene

Concen: 163.245 ug/l

RT: 10.334 min Scan# 1487

Delta R.T. 0.000 min

Lab File: VD078990.D

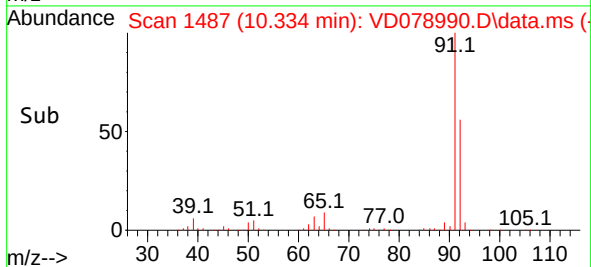
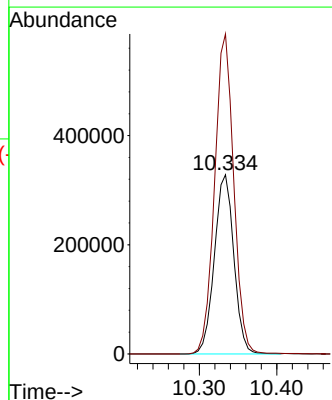
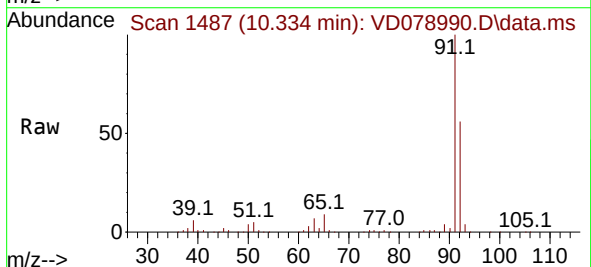
Acq: 22 May 2024 20:12

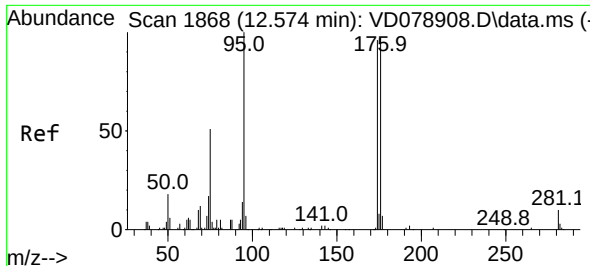
Tgt Ion: 92 Resp: 573217

Ion Ratio Lower Upper

92 100

91 175.8 141.7 212.5

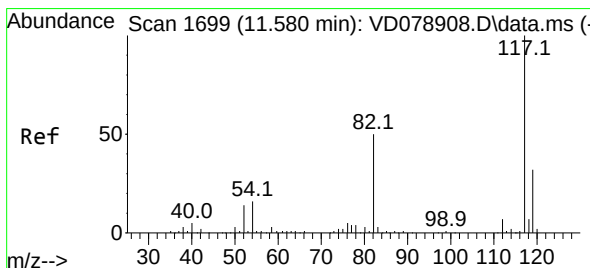
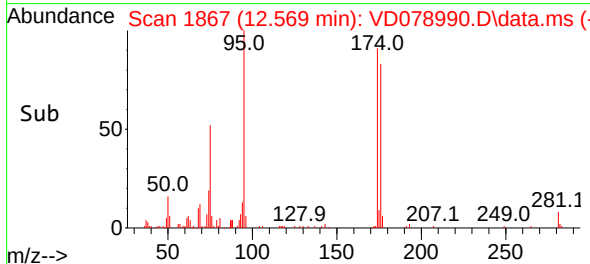
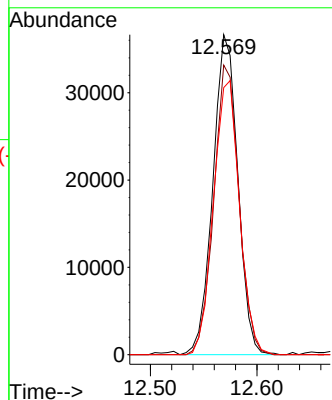
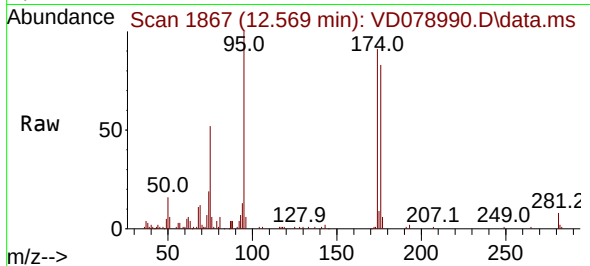




#62  
4-Bromofluorobenzene  
Concen: 41.388 ug/l  
RT: 12.569 min Scan# 1867  
Delta R.T. -0.006 min  
Lab File: VD078990.D  
Acq: 22 May 2024 20:12

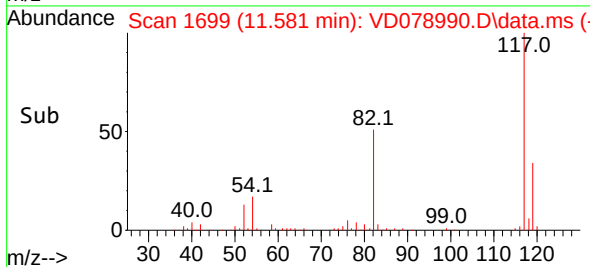
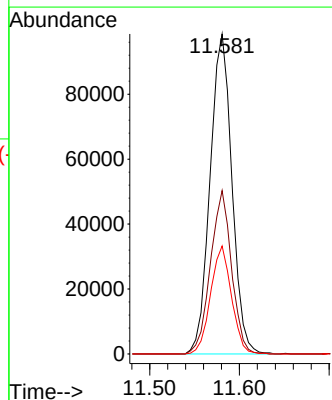
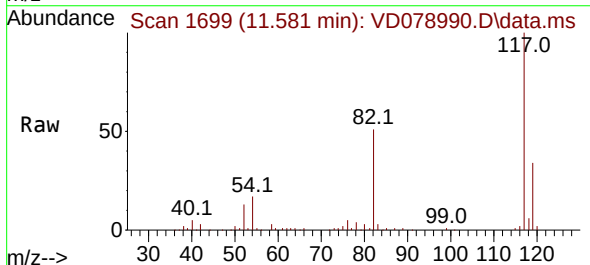
Instrument :  
MSVOA\_D  
ClientSampleId :  
510-C

Tgt Ion: 95 Resp: 59407  
Ion Ratio Lower Upper  
95 100  
174 91.4 0.0 195.4  
176 89.5 0.0 192.6

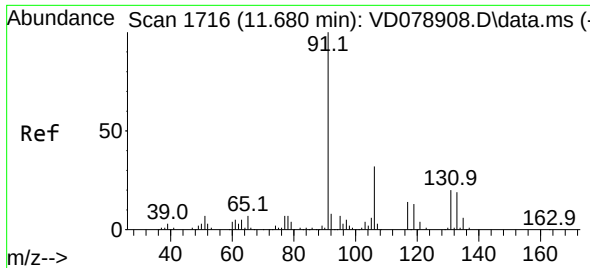


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 1699  
Delta R.T. 0.000 min  
Lab File: VD078990.D  
Acq: 22 May 2024 20:12

Tgt Ion: 117 Resp: 166440  
Ion Ratio Lower Upper  
117 100  
82 51.1 39.8 59.6  
119 33.7 25.7 38.5







#67

Ethyl Benzene

Concen: 2.774 ug/l

RT: 11.681 min Scan# 1716

Delta R.T. 0.000 min

Lab File: VD078990.D

Acq: 22 May 2024 20:12

Instrument :

MSVOA\_D

ClientSampleId :

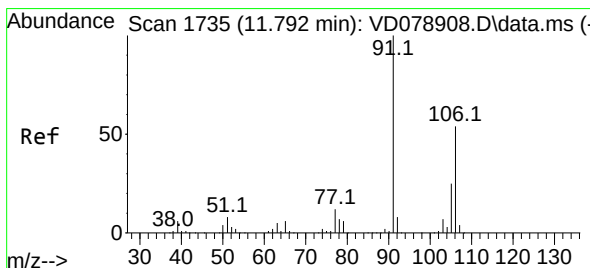
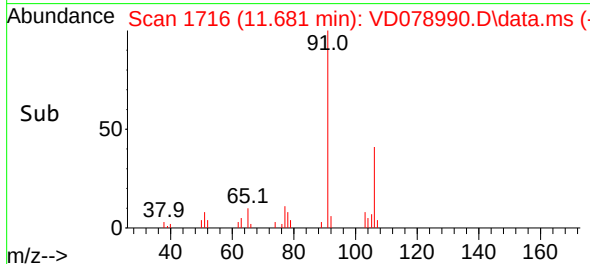
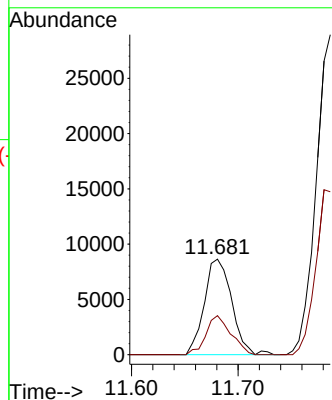
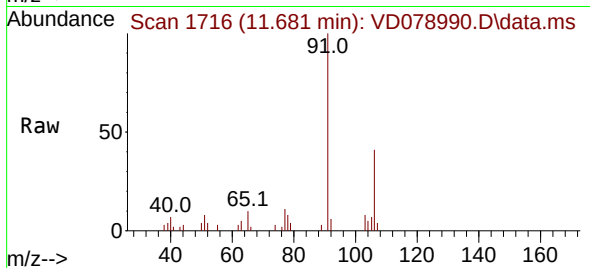
510-C

Tgt Ion: 91 Resp: 15446

Ion Ratio Lower Upper

91 100

106 40.8 25.8 38.6#



#68

m/p-Xylenes

Concen: 12.763 ug/l

RT: 11.781 min Scan# 1733

Delta R.T. -0.011 min

Lab File: VD078990.D

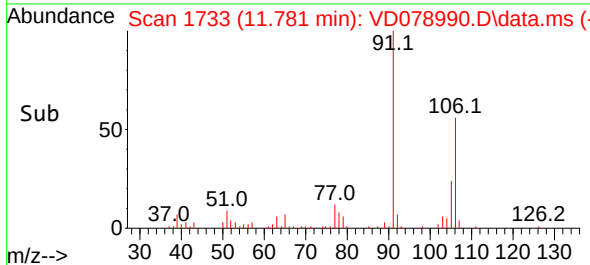
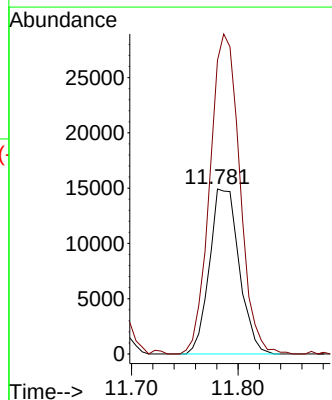
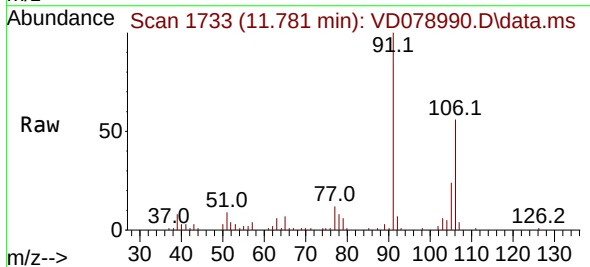
Acq: 22 May 2024 20:12

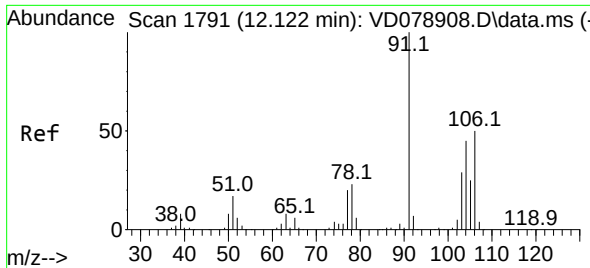
Tgt Ion: 106 Resp: 28895

Ion Ratio Lower Upper

106 100

91 195.1 148.5 222.7

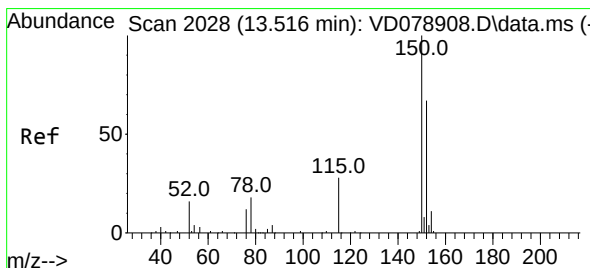
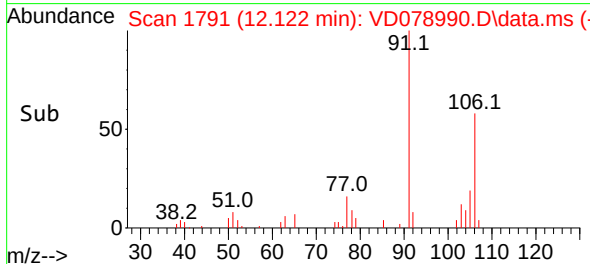
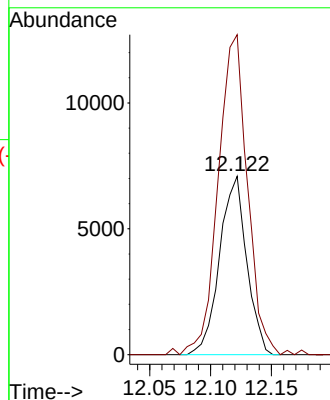
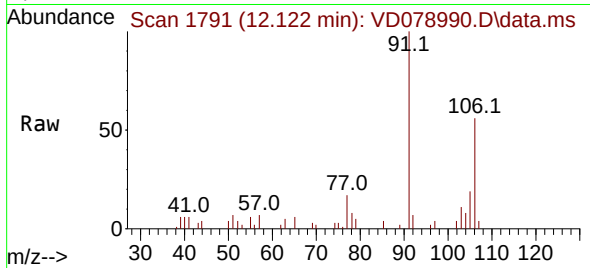




#69  
o-Xylene  
Concen: 5.324 ug/l  
RT: 12.122 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VD078990.D  
Acq: 22 May 2024 20:12

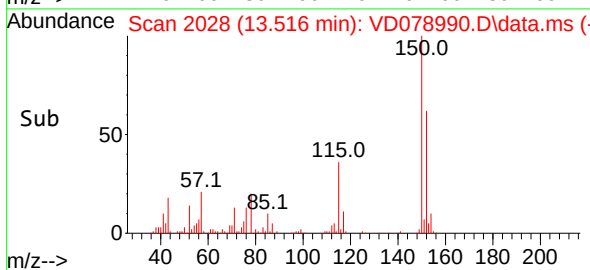
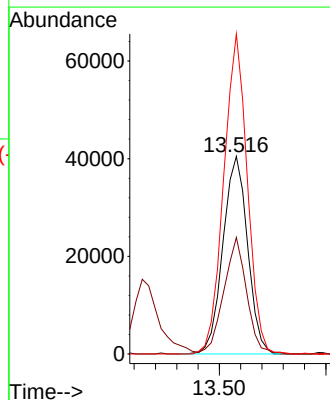
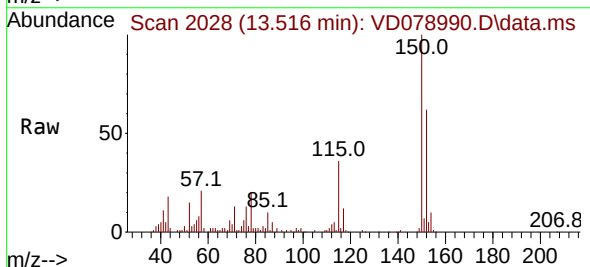
Instrument :  
MSVOA\_D  
ClientSampleId :  
510-C

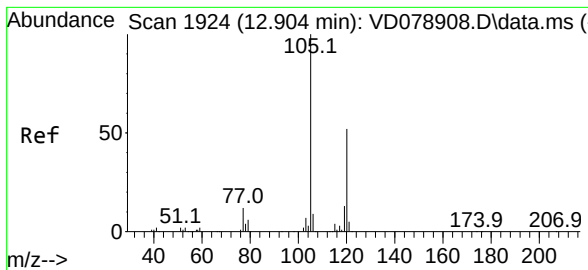
Tgt Ion:106 Resp: 10989  
Ion Ratio Lower Upper  
106 100  
91 194.3 96.7 290.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.516 min Scan# 2028  
Delta R.T. 0.000 min  
Lab File: VD078990.D  
Acq: 22 May 2024 20:12

Tgt Ion:152 Resp: 64913  
Ion Ratio Lower Upper  
152 100  
115 54.6 26.5 79.5  
150 155.1 0.0 341.6

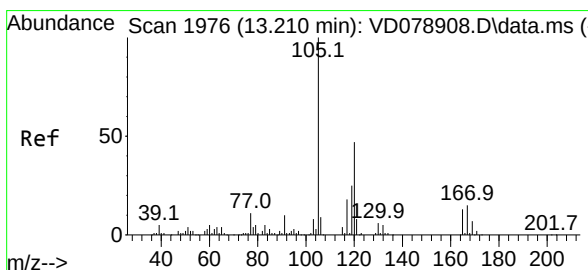
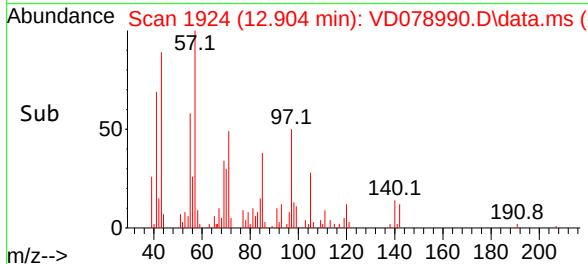
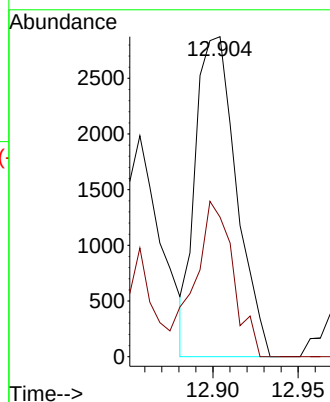
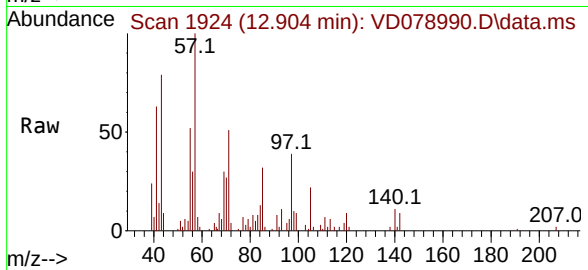




#80  
 1,3,5-Trimethylbenzene  
 Concen: 1.485 ug/l  
 RT: 12.904 min Scan# 1924  
 Delta R.T. 0.000 min  
 Lab File: VD078990.D  
 Acq: 22 May 2024 20:12

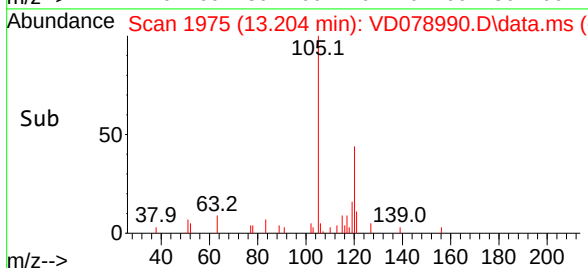
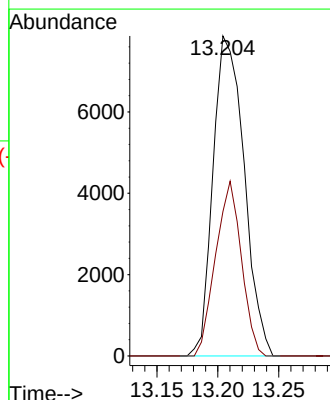
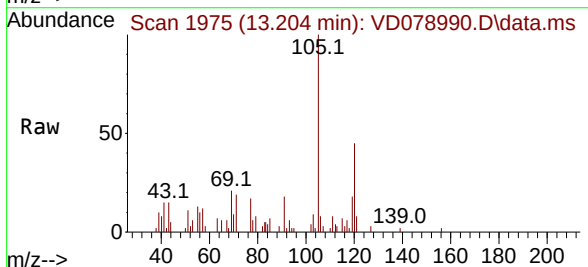
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 510-C

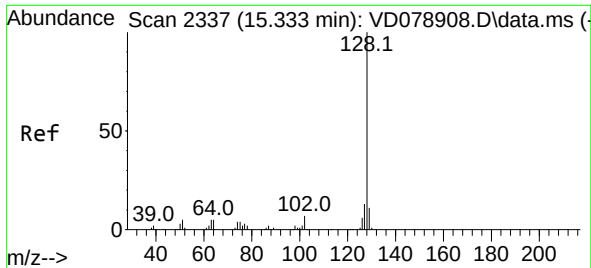
Tgt Ion:105 Resp: 4780  
 Ion Ratio Lower Upper  
 105 100  
 120 45.1 25.7 77.1



#84  
 1,2,4-Trimethylbenzene  
 Concen: 4.191 ug/l  
 RT: 13.204 min Scan# 1975  
 Delta R.T. -0.006 min  
 Lab File: VD078990.D  
 Acq: 22 May 2024 20:12

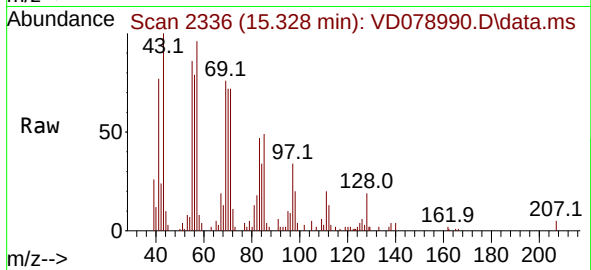
Tgt Ion:105 Resp: 13972  
 Ion Ratio Lower Upper  
 105 100  
 120 45.4 23.6 71.0





#95  
Naphthalene  
Concen: 2.383 ug/l  
RT: 15.328 min Scan# 21  
Delta R.T. -0.005 min  
Lab File: VD078990.D  
Acq: 22 May 2024 20:12

Instrument :  
MSVOA\_D  
ClientSampleId :  
510-C



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 4299  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 16.6  | 10.2  | 15.4# |
| 129      | 20.4  | 8.5   | 12.7# |

