

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD041223\  
 Data File : VD075648.D  
 Acq On : 12 Apr 2023 19:16  
 Operator : KP/SY  
 Sample : 02262-09  
 Misc : 7.08G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 JPP-3A-040723

Quant Time: Apr 13 07:30:37 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D041023S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 12 10:29:09 2023  
 Response via : Initial Calibration

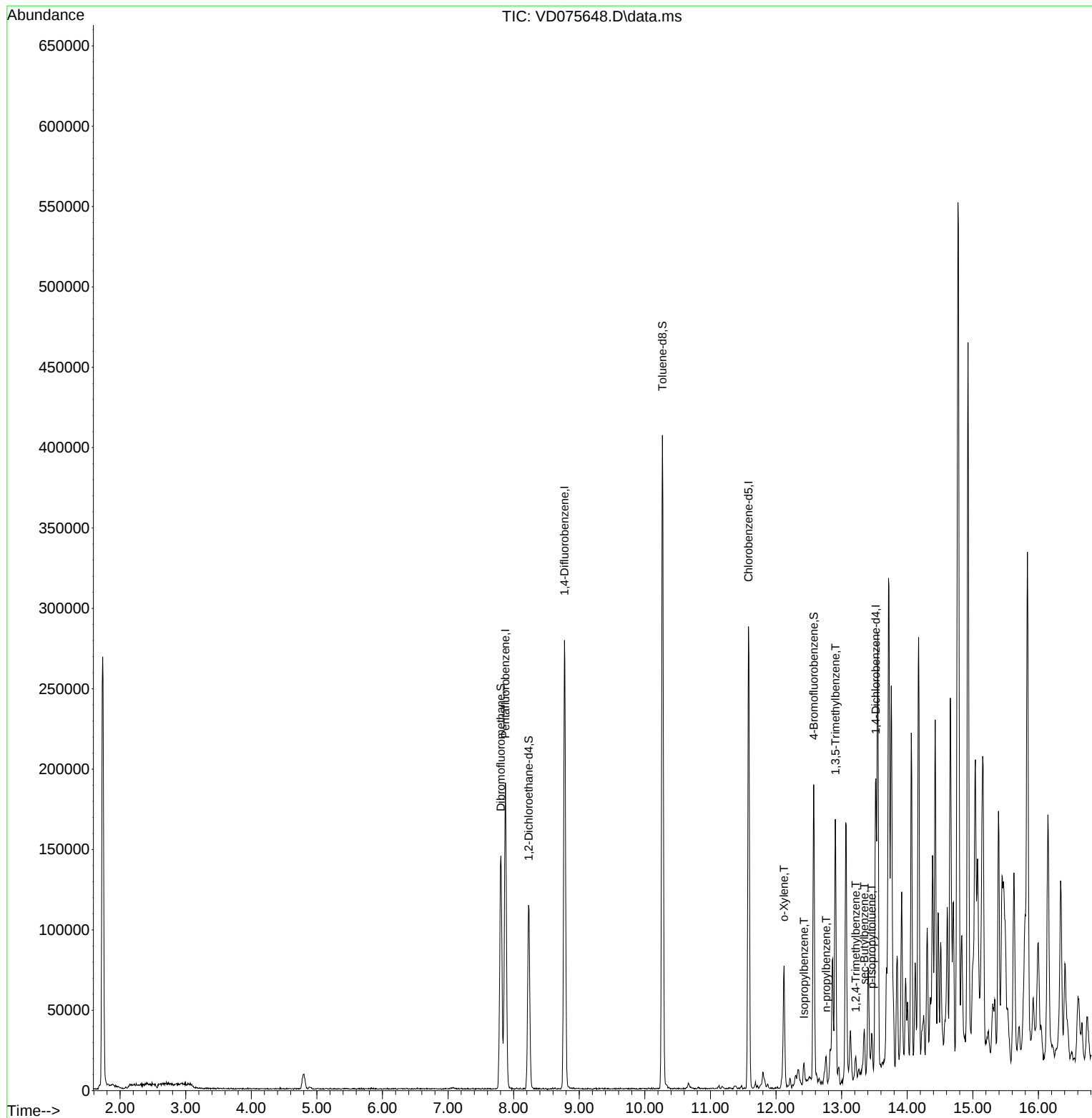
| Compound                    | R.T.   | QIon  | Response | Conc     | Units | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|-------|----------|
| -----                       |        |       |          |          |       |          |
| Internal Standards          |        |       |          |          |       |          |
| 1) Pentafluorobenzene       | 7.875  | 168   | 150343   | 50.000   | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.775  | 114   | 267543   | 50.000   | ug/l  | 0.00     |
| 63) Chlorobenzene-d5        | 11.581 | 117   | 182129   | 50.000   | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.522 | 152   | 52067    | 50.000   | ug/l  | 0.00     |
|                             |        |       |          |          |       |          |
| System Monitoring Compounds |        |       |          |          |       |          |
| 33) 1,2-Dichloroethane-d4   | 8.228  | 65    | 89077    | 72.224   | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 50 - 163 | Recovery | =     | 144.440% |
| 35) Dibromofluoromethane    | 7.804  | 113   | 109959   | 70.129   | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 54 - 147 | Recovery | =     | 140.260% |
| 50) Toluene-d8              | 10.269 | 98    | 305995   | 49.754   | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 49 - 140 | Recovery | =     | 99.500%  |
| 62) 4-Bromofluorobenzene    | 12.575 | 95    | 58733    | 32.461   | ug/l  | 0.00     |
| Spiked Amount               | 50.000 | Range | 25 - 144 | Recovery | =     | 64.920%  |
|                             |        |       |          |          |       |          |
| Target Compounds            |        |       |          |          |       | Qvalue   |
| 69) o-Xylene                | 12.122 | 106   | 21396    | 9.893    | ug/l  | 95       |
| 73) Isopropylbenzene        | 12.428 | 105   | 6316     | 1.955    | ug/l  | 98       |
| 78) n-propylbenzene         | 12.763 | 91    | 14273    | 3.674    | ug/l  | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.904 | 105   | 74273    | 28.068   | ug/l  | 97       |
| 84) 1,2,4-Trimethylbenzene  | 13.216 | 105   | 7248     | 2.712    | ug/l  | 84       |
| 85) sec-Butylbenzene        | 13.345 | 105   | 18885    | 5.379    | ug/l  | 88       |
| 86) p-Isopropyltoluene      | 13.457 | 119   | 14185    | 4.806    | ug/l  | 93       |
| -----                       |        |       |          |          |       |          |

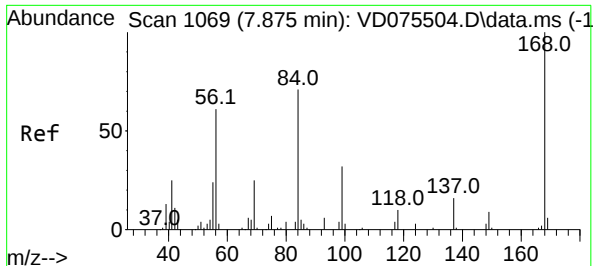
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
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JPP-3A-040723

Quant Time: Apr 13 07:30:37 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D041023S.M  
Quant Title : SW846 8260  
QLast Update : Wed Apr 12 10:29:09 2023  
Response via : Initial Calibration

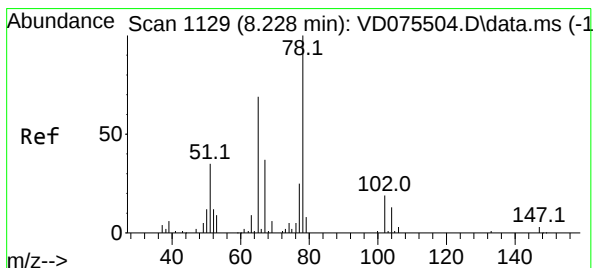
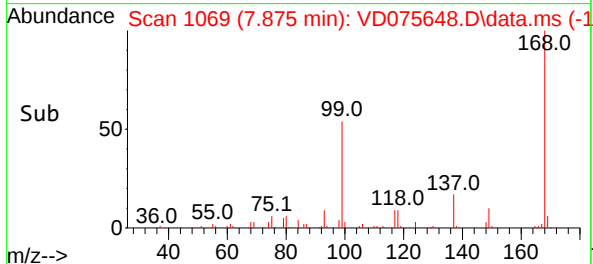
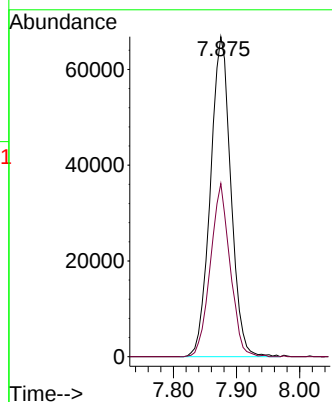
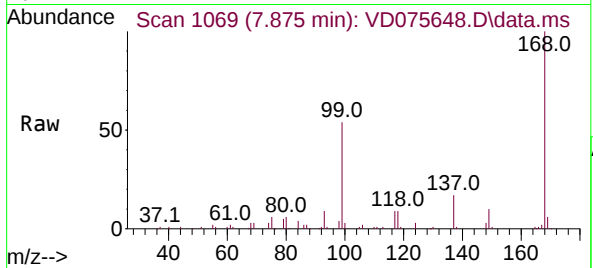




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 7.875 min Scan# 1069  
Delta R.T. -0.000 min  
Lab File: VD075648.D  
Acq: 12 Apr 2023 19:16

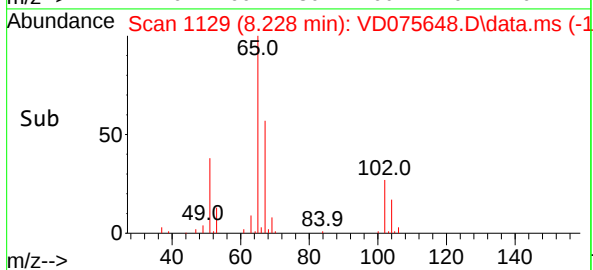
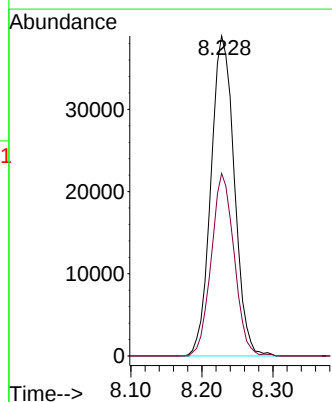
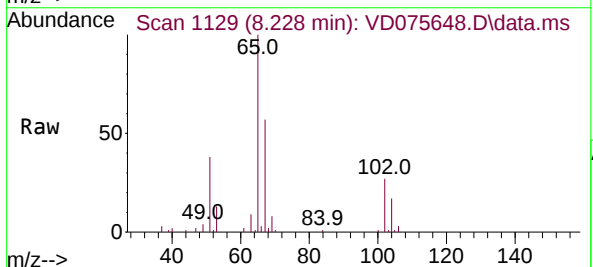
Instrument :  
MSVOA\_D  
ClientSampleId :  
JPP-3A-040723

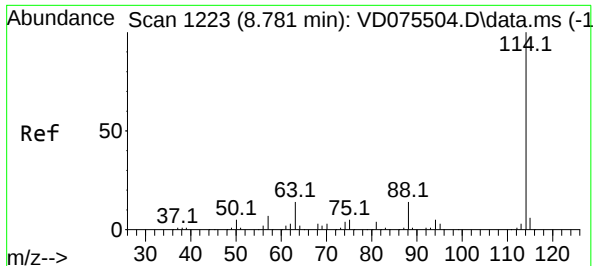
Tgt Ion:168 Resp: 150343  
Ion Ratio Lower Upper  
168 100  
99 54.1 43.8 65.6



#33  
1,2-Dichloroethane-d4  
Concen: 72.224 ug/l  
RT: 8.228 min Scan# 1129  
Delta R.T. -0.000 min  
Lab File: VD075648.D  
Acq: 12 Apr 2023 19:16

Tgt Ion: 65 Resp: 89077  
Ion Ratio Lower Upper  
65 100  
67 55.6 0.0 102.2





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.775 min Scan# 11

Delta R.T. -0.006 min

Lab File: VD075648.D

Acq: 12 Apr 2023 19:16

Instrument :

MSVOA\_D

ClientSampleId :

JPP-3A-040723

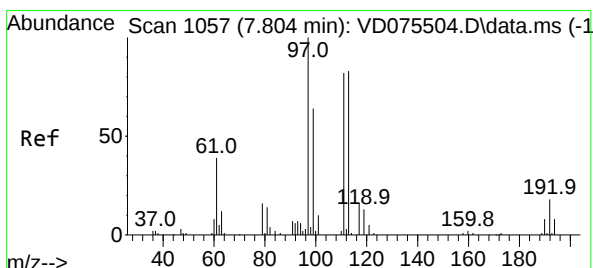
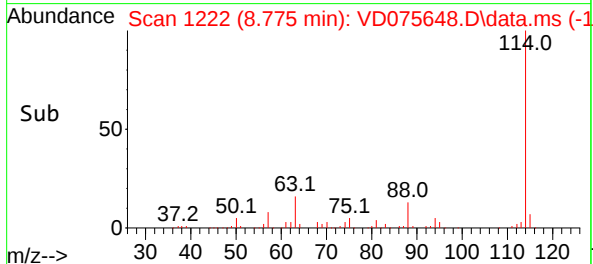
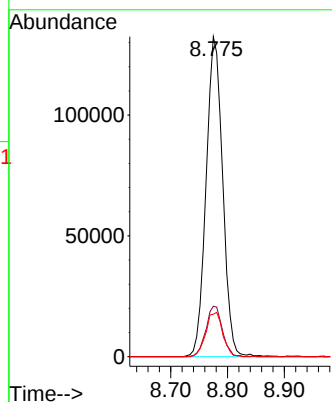
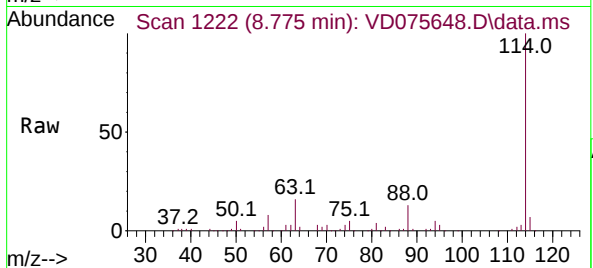
Tgt Ion:114 Resp: 267543

Ion Ratio Lower Upper

114 100

63 15.8 0.0 41.6

88 13.2 0.0 30.6



#35

Dibromofluoromethane

Concen: 70.129 ug/l

RT: 7.804 min Scan# 1057

Delta R.T. -0.001 min

Lab File: VD075648.D

Acq: 12 Apr 2023 19:16

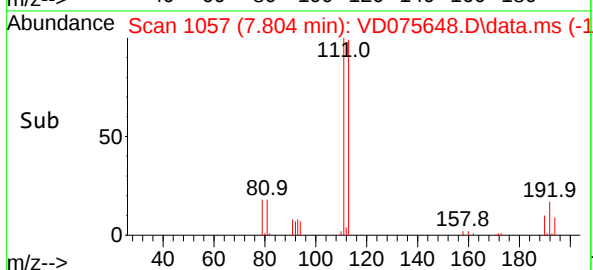
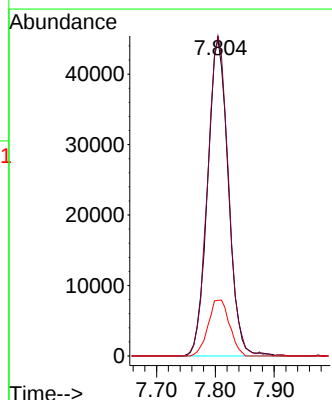
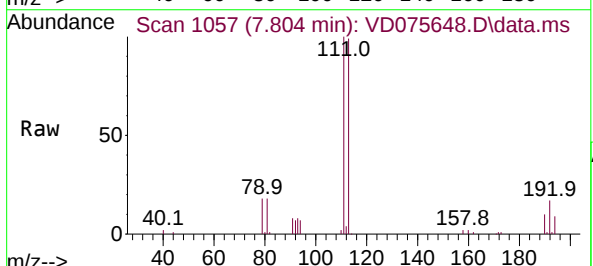
Tgt Ion:113 Resp: 109959

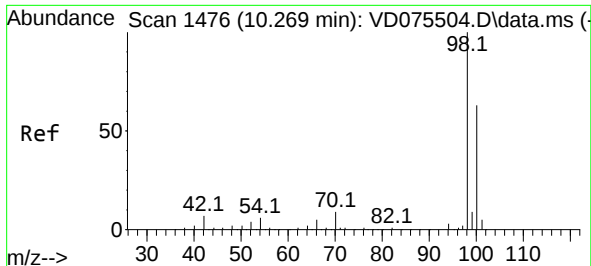
Ion Ratio Lower Upper

113 100

111 101.2 81.4 122.0

192 18.3 15.2 22.8

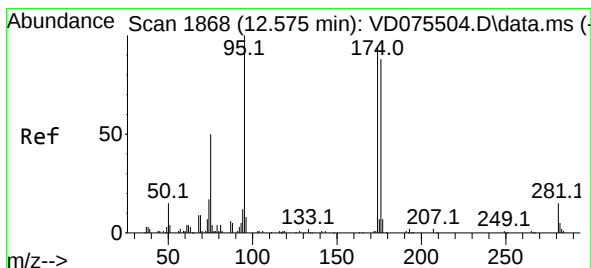
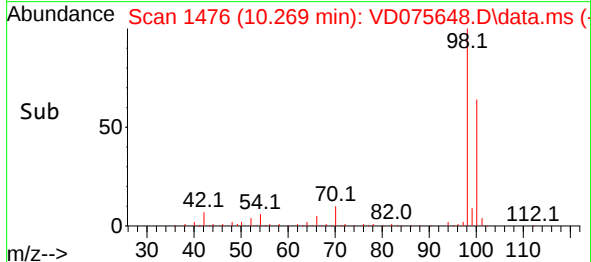
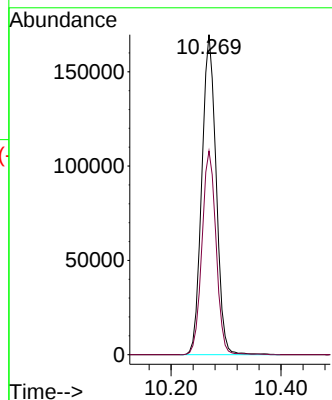
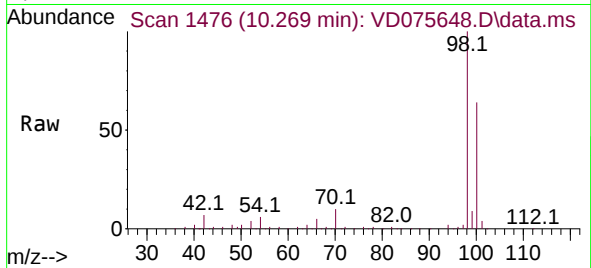




#50  
Toluene-d8  
Concen: 49.754 ug/l  
RT: 10.269 min Scan# 1476  
Delta R.T. -0.000 min  
Lab File: VD075648.D  
Acq: 12 Apr 2023 19:16

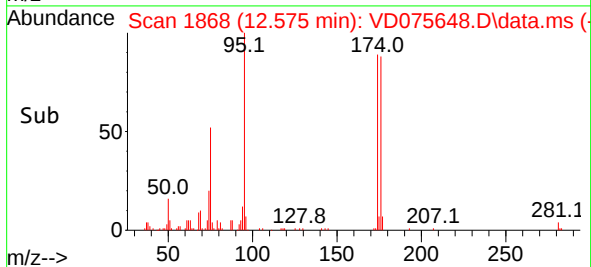
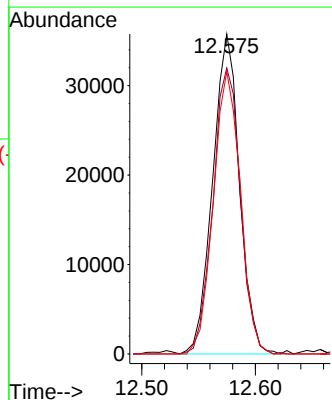
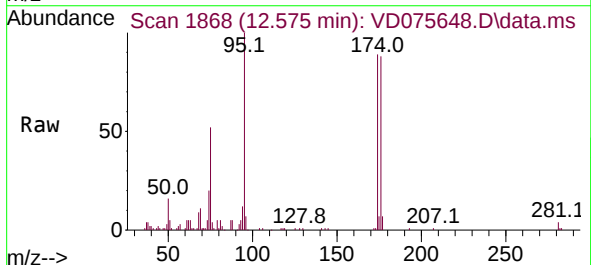
Instrument :  
MSVOA\_D  
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JPP-3A-040723

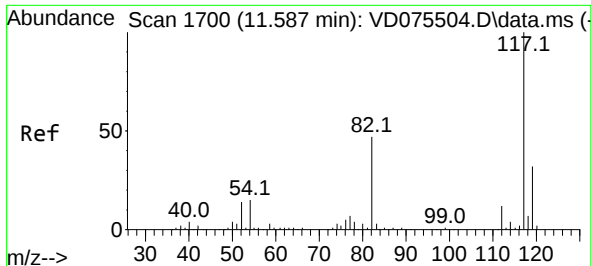
Tgt Ion: 98 Resp: 305995  
Ion Ratio Lower Upper  
98 100  
100 62.6 52.1 78.1



#62  
4-Bromofluorobenzene  
Concen: 32.461 ug/l  
RT: 12.575 min Scan# 1868  
Delta R.T. -0.000 min  
Lab File: VD075648.D  
Acq: 12 Apr 2023 19:16

Tgt Ion: 95 Resp: 58733  
Ion Ratio Lower Upper  
95 100  
174 91.1 0.0 164.0  
176 88.9 0.0 156.8

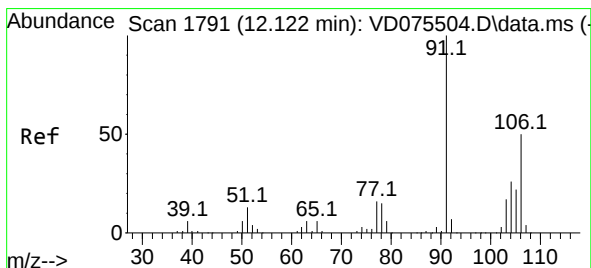
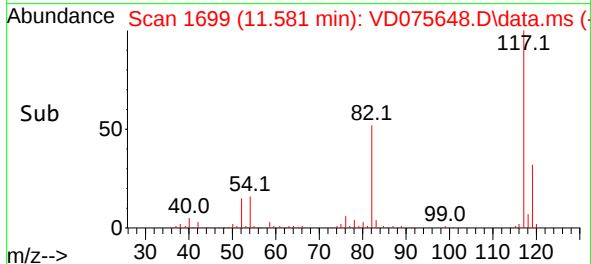
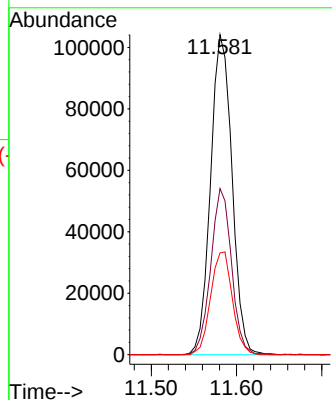
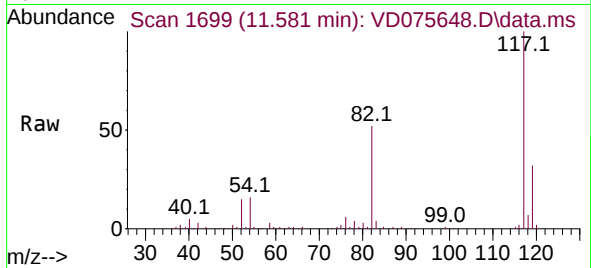




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.581 min Scan# 117  
Delta R.T. -0.006 min  
Lab File: VD075648.D  
Acq: 12 Apr 2023 19:16

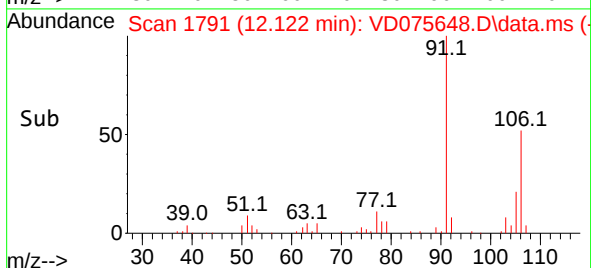
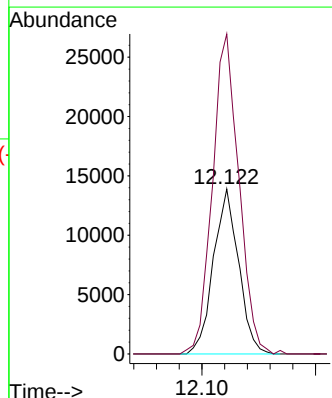
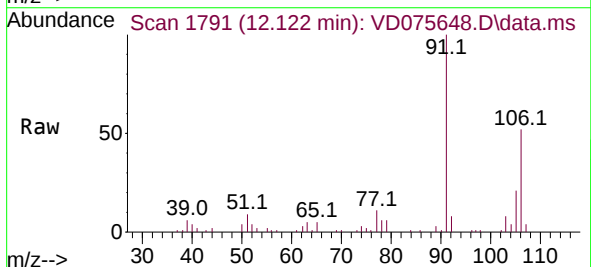
Instrument :  
MSVOA\_D  
ClientSampleId :  
JPP-3A-040723

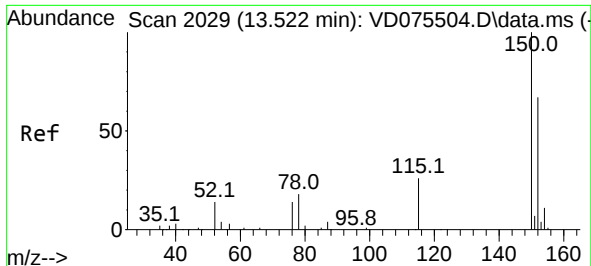
Tgt Ion:117 Resp: 182129  
Ion Ratio Lower Upper  
117 100  
82 51.9 44.0 66.0  
119 31.8 25.1 37.7



#69  
o-Xylene  
Concen: 9.893 ug/l  
RT: 12.122 min Scan# 1791  
Delta R.T. -0.000 min  
Lab File: VD075648.D  
Acq: 12 Apr 2023 19:16

Tgt Ion:106 Resp: 21396  
Ion Ratio Lower Upper  
106 100  
91 203.7 105.7 317.1

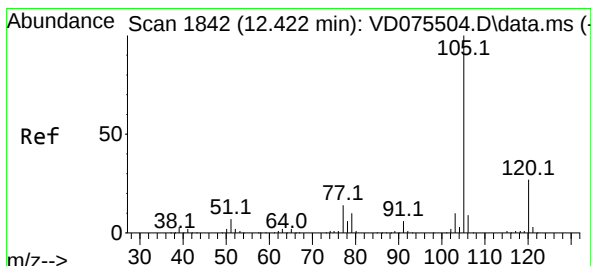
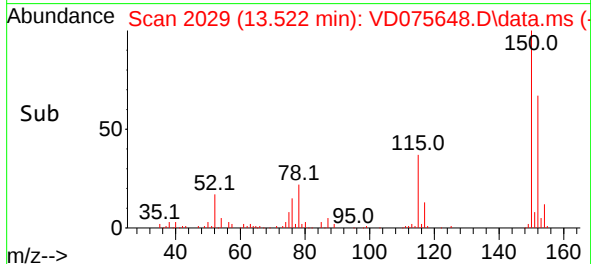
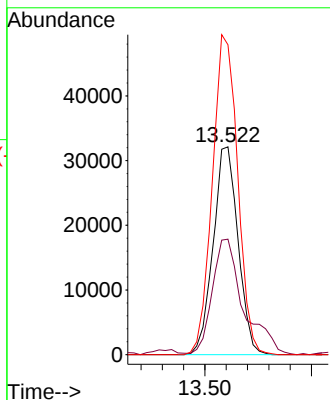
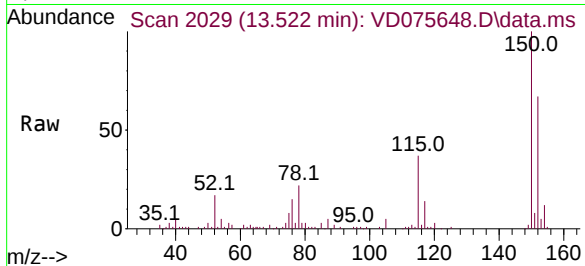




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.522 min Scan# 2029  
 Delta R.T. -0.000 min  
 Lab File: VD075648.D  
 Acq: 12 Apr 2023 19:16

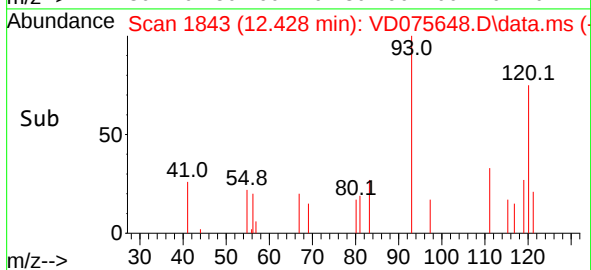
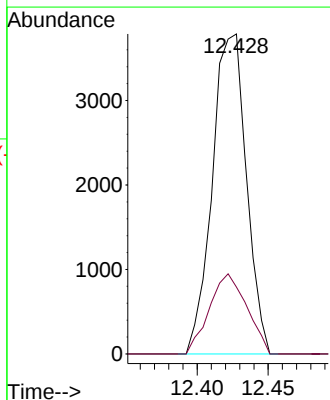
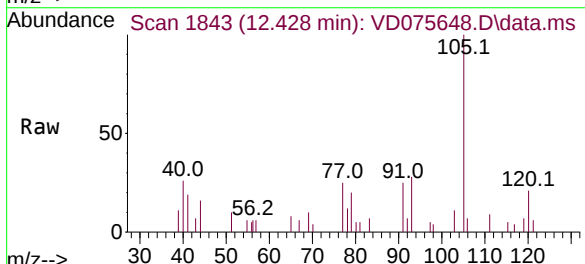
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 JPP-3A-040723

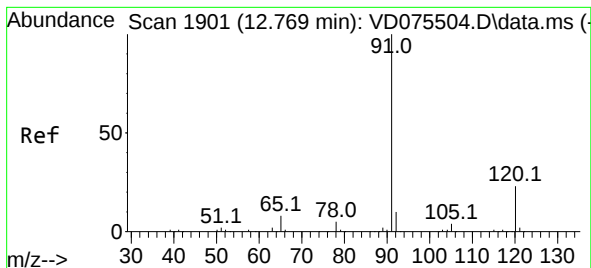
Tgt Ion:152 Resp: 52067  
 Ion Ratio Lower Upper  
 152 100  
 115 69.9 30.1 90.3  
 150 156.6 0.0 364.8



#73  
 Isopropylbenzene  
 Concen: 1.955 ug/l  
 RT: 12.428 min Scan# 1843  
 Delta R.T. 0.006 min  
 Lab File: VD075648.D  
 Acq: 12 Apr 2023 19:16

Tgt Ion:105 Resp: 6316  
 Ion Ratio Lower Upper  
 105 100  
 120 27.5 13.4 40.1





#78

n-propylbenzene

Concen: 3.674 ug/l

RT: 12.763 min Scan# 1900

Delta R.T. -0.006 min

Lab File: VD075648.D

Acq: 12 Apr 2023 19:16

Instrument :

MSVOA\_D

ClientSampleId :

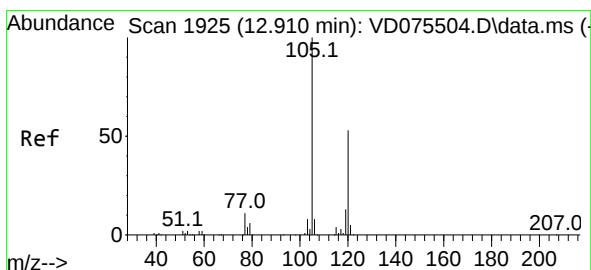
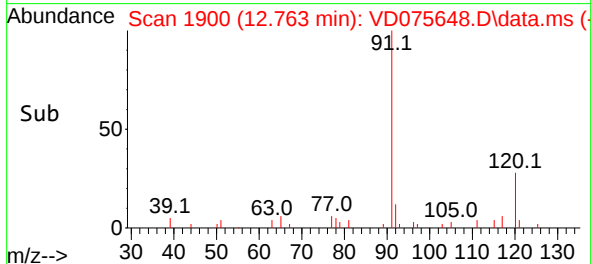
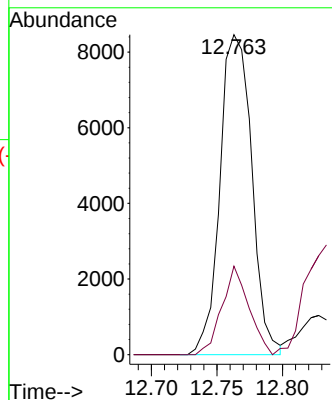
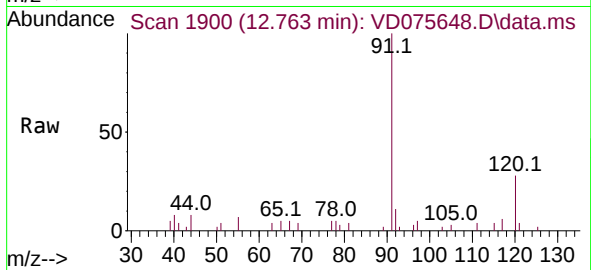
JPP-3A-040723

Tgt Ion: 91 Resp: 14273

Ion Ratio Lower Upper

91 100

120 23.4 11.4 34.2



#80

1,3,5-Trimethylbenzene

Concen: 28.068 ug/l

RT: 12.904 min Scan# 1924

Delta R.T. -0.006 min

Lab File: VD075648.D

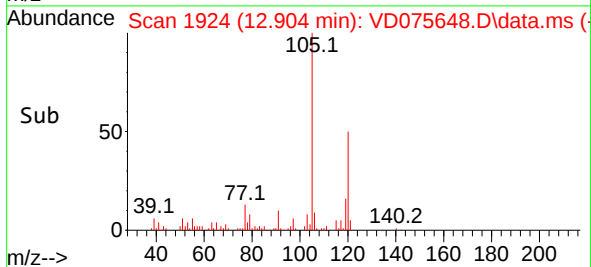
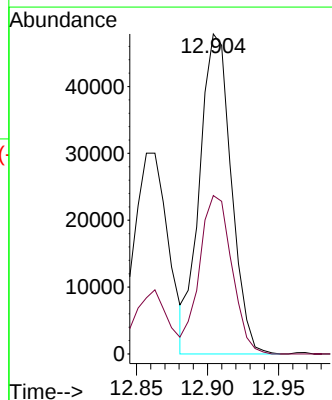
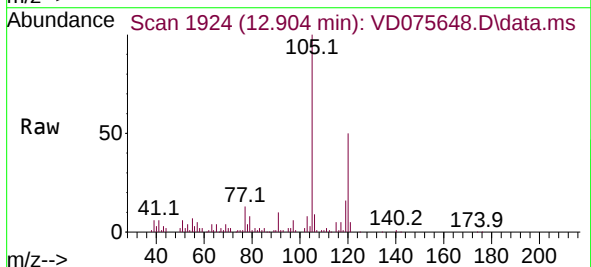
Acq: 12 Apr 2023 19:16

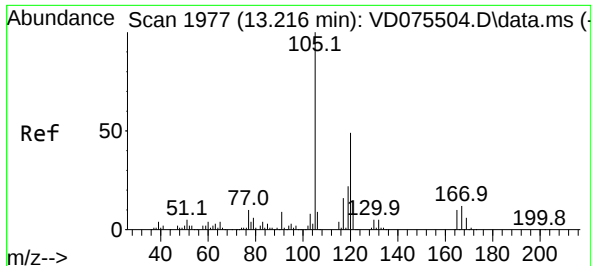
Tgt Ion: 105 Resp: 74273

Ion Ratio Lower Upper

105 100

120 50.8 24.3 72.8

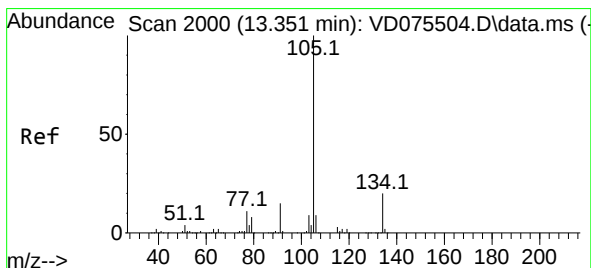
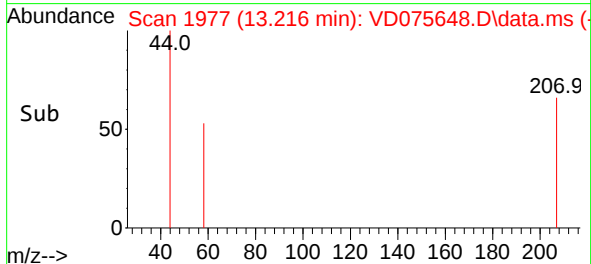
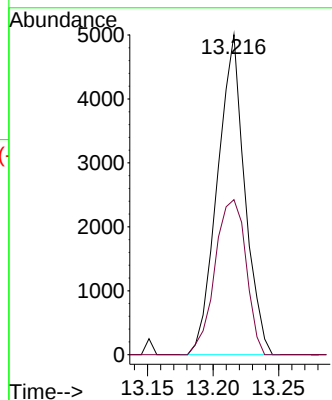
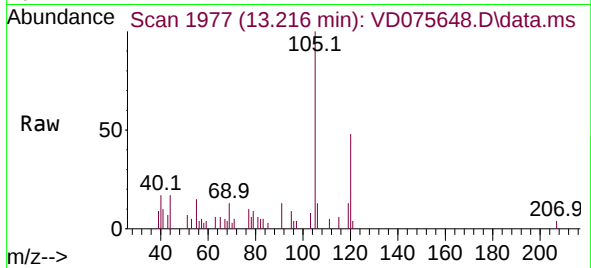




#84  
1,2,4-Trimethylbenzene  
Concen: 2.712 ug/l  
RT: 13.216 min Scan# 1977  
Delta R.T. -0.000 min  
Lab File: VD075648.D  
Acq: 12 Apr 2023 19:16

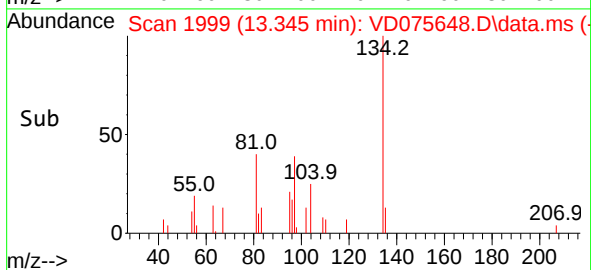
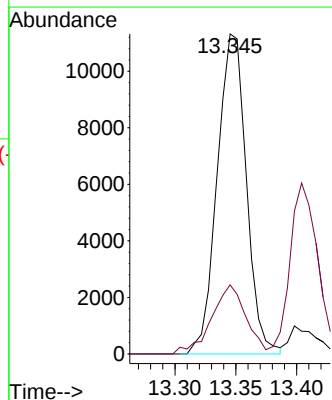
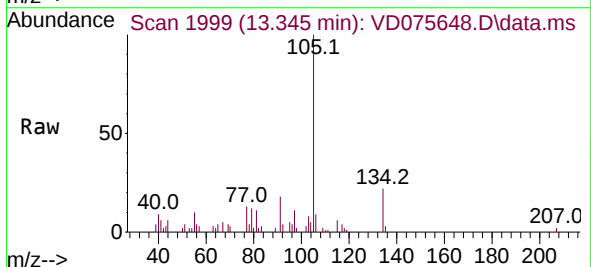
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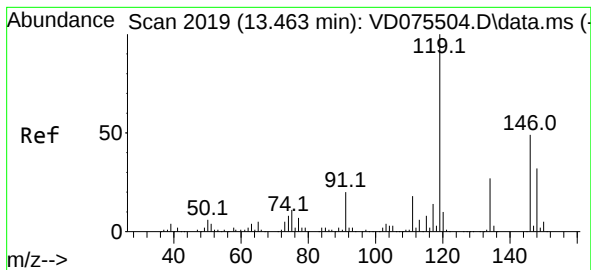
Tgt Ion:105 Resp: 7248  
Ion Ratio Lower Upper  
105 100  
120 55.2 22.3 66.9



#85  
sec-Butylbenzene  
Concen: 5.379 ug/l  
RT: 13.345 min Scan# 1999  
Delta R.T. -0.006 min  
Lab File: VD075648.D  
Acq: 12 Apr 2023 19:16

Tgt Ion:105 Resp: 18885  
Ion Ratio Lower Upper  
105 100  
134 25.3 9.9 29.7





#86

p-Isopropyltoluene

Concen: 4.806 ug/l

RT: 13.457 min Scan# 20

Delta R.T. -0.006 min

Lab File: VD075648.D

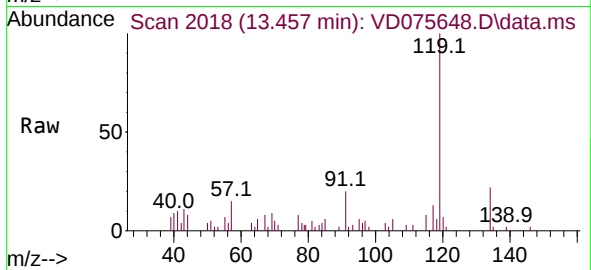
Acq: 12 Apr 2023 19:16

Instrument :

MSVOA\_D

ClientSampleId :

JPP-3A-040723



Tgt Ion:119 Resp: 14185

Ion Ratio Lower Upper

119 100

134 24.8 13.1 39.3

91 18.7 12.4 37.4

