

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032921\  
 Data File : VD068711.D  
 Acq On : 29 Mar 2021 21:18  
 Operator : VA/SY  
 Sample : M1836-03  
 Misc : 8.68G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 B2-0-2

Quant Time: Mar 30 01:08:30 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D031921S.M  
 Quant Title : SW846 8260  
 QLast Update : Sat Mar 20 02:00:55 2021  
 Response via : Initial Calibration

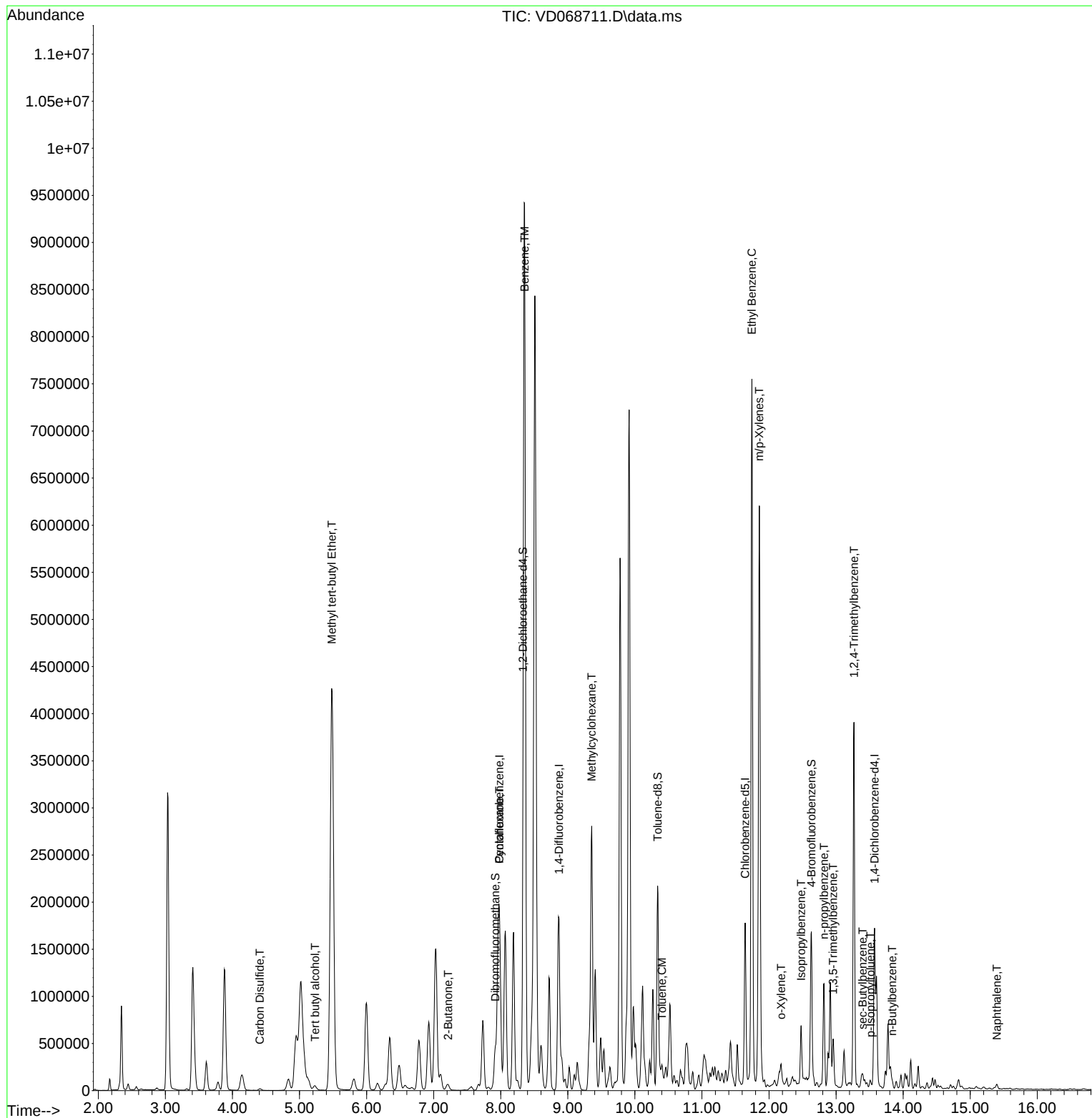
| Compound                    | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|---------|--------|----------|
| -----                       |                |      |            |         |        |          |
| Internal Standards          |                |      |            |         |        |          |
| 1) Pentafluorobenzene       | 7.979          | 168  | 544977     | 50.00   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.867          | 114  | 978928     | 50.00   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.644         | 117  | 974352     | 50.00   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.573         | 152  | 470681     | 50.00   | ug/l   | 0.00     |
|                             |                |      |            |         |        |          |
| System Monitoring Compounds |                |      |            |         |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.332          | 65   | 273479     | 49.77   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 50 - 163 |      | Recovery = | 99.54%  |        |          |
| 35) Dibromofluoromethane    | 7.920          | 113  | 300548     | 49.34   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 54 - 147 |      | Recovery = | 98.68%  |        |          |
| 50) Toluene-d8              | 10.338         | 98   | 1245951    | 53.06   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 49 - 140 |      | Recovery = | 106.12% |        |          |
| 62) 4-Bromofluorobenzene    | 12.632         | 95   | 454802     | 59.74   | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 25 - 144 |      | Recovery = | 119.48% |        |          |
|                             |                |      |            |         |        |          |
| Target Compounds            |                |      |            |         | Qvalue |          |
| 11) Tert butyl alcohol      | 5.232          | 59   | 85911      | 339.27  | ug/l # | 73       |
| 17) Carbon Disulfide        | 4.409          | 76   | 38327      | 2.77    | ug/l   | 99       |
| 19) Methyl tert-butyl Ether | 5.479          | 73   | 6300711    | 580.73  | ug/l # | 73       |
| 25) 2-Butanone              | 7.214          | 43   | 32504      | 29.42   | ug/l # | 71       |
| 31) Cyclohexane             | 7.979          | 56   | 675655     | 76.20   | ug/l   | 89       |
| 39) Methylcyclohexane       | 9.356          | 83   | 816053     | 75.62   | ug/l   | 90       |
| 40) Benzene                 | 8.356          | 78   | 10232249   | 401.10  | ug/l   | 95       |
| 52) Toluene                 | 10.403         | 92   | 104749     | 6.49    | ug/l   | 98       |
| 67) Ethyl Benzene           | 11.744         | 91   | 5462708    | 163.30  | ug/l   | 98       |
| 68) m/p-Xylenes             | 11.855         | 106  | 2013783    | 154.51  | ug/l   | 97       |
| 69) o-Xylene                | 12.179         | 106  | 55577      | 4.60    | ug/l   | 99       |
| 73) Isopropylbenzene        | 12.479         | 105  | 416816     | 12.89   | ug/l   | 99       |
| 78) n-propylbenzene         | 12.820         | 91   | 905596     | 23.52   | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene  | 12.955         | 105  | 240614     | 9.20    | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.267         | 105  | 2236677    | 82.78   | ug/l   | 98       |
| 85) sec-Butylbenzene        | 13.397         | 105  | 81397      | 2.51    | ug/l # | 54       |
| 86) p-Isopropyltoluene      | 13.514         | 119  | 35611      | 1.21    | ug/l   | 96       |
| 89) n-Butylbenzene          | 13.838         | 91   | 41124      | 1.47    | ug/l # | 79       |
| 95) Naphthalene             | 15.396         | 128  | 46540      | 3.18    | ug/l   | 97       |
| -----                       |                |      |            |         |        |          |

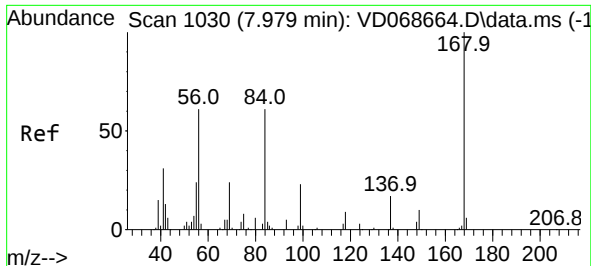
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD032921\  
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ClientSampleId :  
B2-0-2

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Quant Title : SW846 8260  
QLast Update : Sat Mar 20 02:00:55 2021  
Response via : Initial Calibration

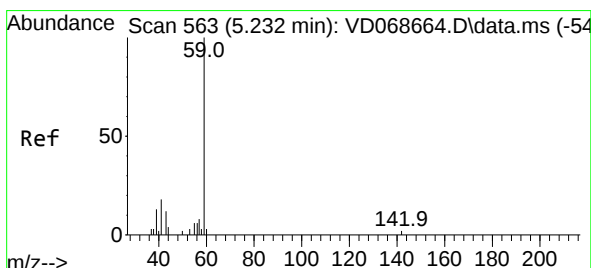
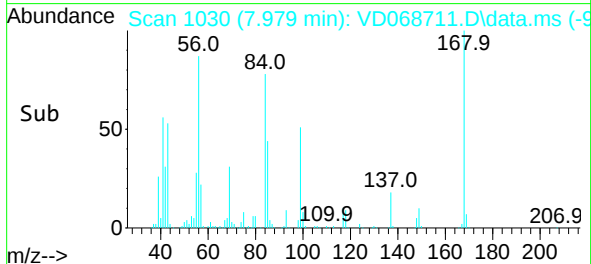
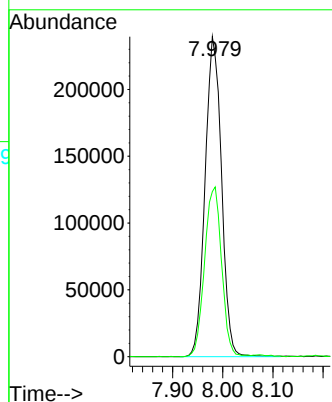
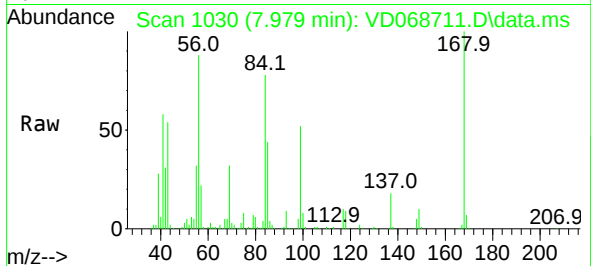




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

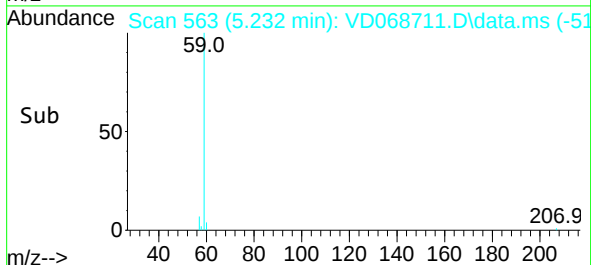
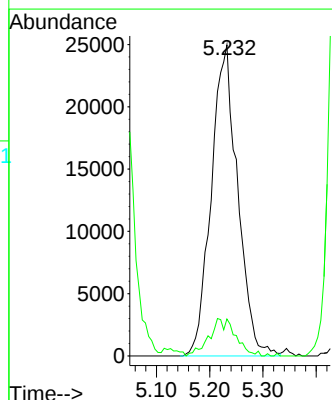
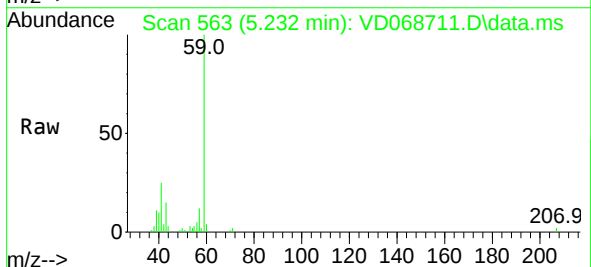
Instrument :  
MSVOA\_D  
ClientSampleId :  
B2-0-2

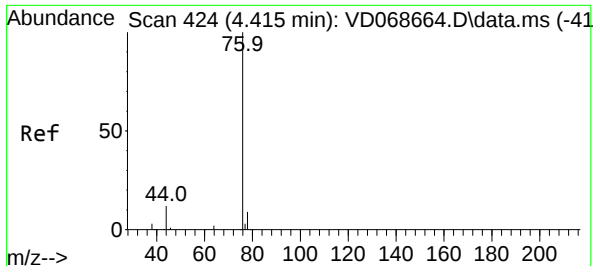
Tgt Ion:168 Resp: 544977  
Ion Ratio Lower Upper  
168 100  
99 51.6 46.2 69.2



#11  
Tert butyl alcohol  
Concen: 339.27 ug/l  
RT: 5.232 min Scan# 563  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

Tgt Ion: 59 Resp: 85911  
Ion Ratio Lower Upper  
59 100  
57 0.0 7.8 11.8#

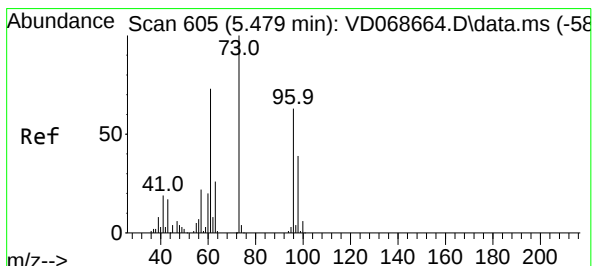
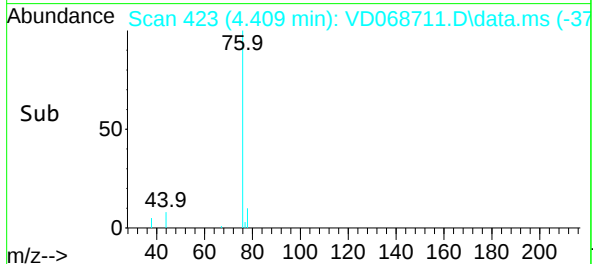
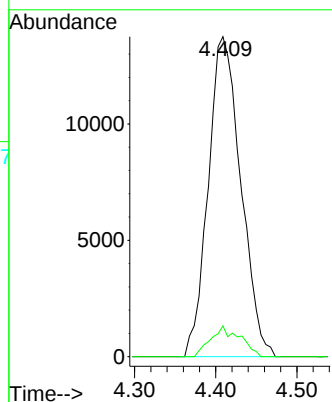
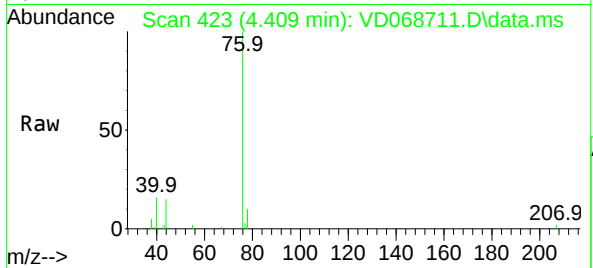




#17  
Carbon Disulfide  
Concen: 2.77 ug/l  
RT: 4.409 min Scan# 423  
Delta R.T. -0.006 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

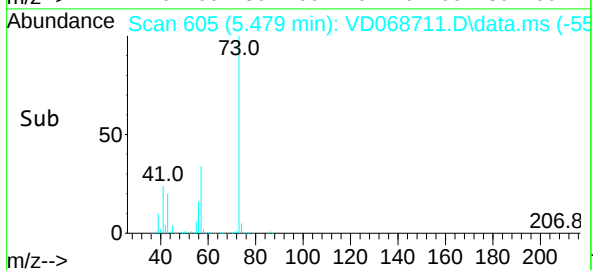
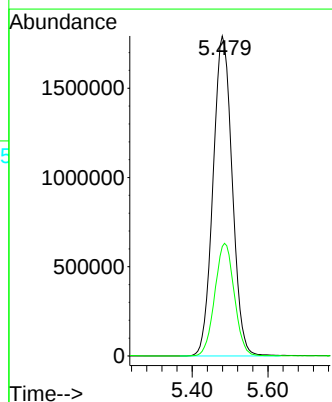
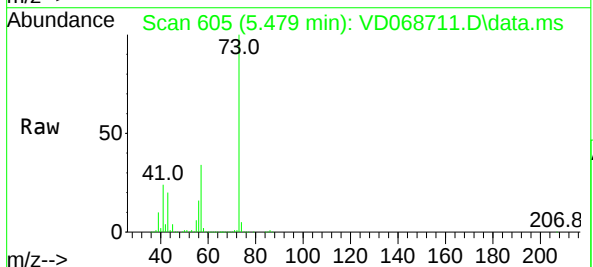
Instrument :  
MSVOA\_D  
ClientSampleId :  
B2-0-2

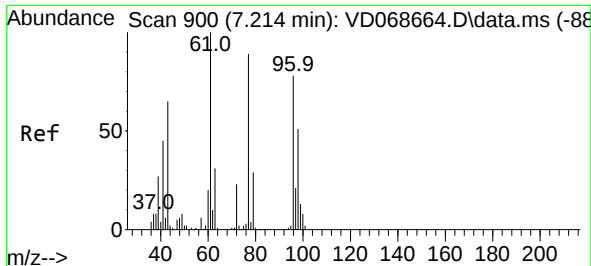
Tgt Ion: 76 Resp: 38327  
Ion Ratio Lower Upper  
76 100  
78 9.6 7.3 10.9



#19  
Methyl tert-butyl Ether  
Concen: 580.73 ug/l  
RT: 5.479 min Scan# 605  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

Tgt Ion: 73 Resp: 6300711  
Ion Ratio Lower Upper  
73 100  
57 34.2 17.3 25.9#

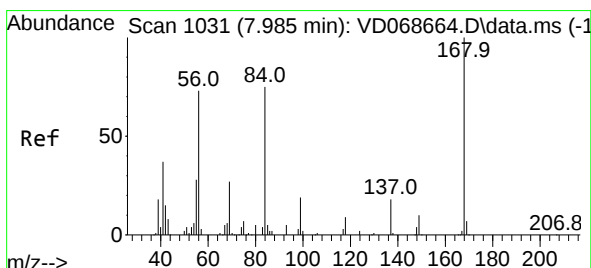
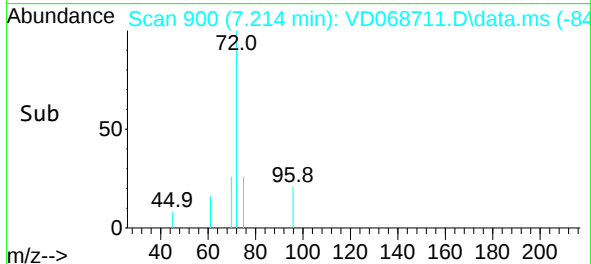
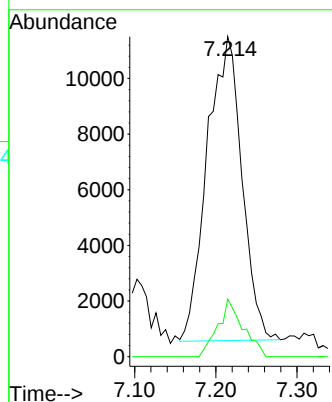
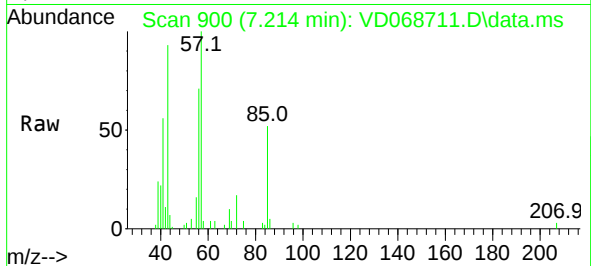




#25  
2-Butanone  
Concen: 29.42 ug/l  
RT: 7.214 min Scan# 900  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

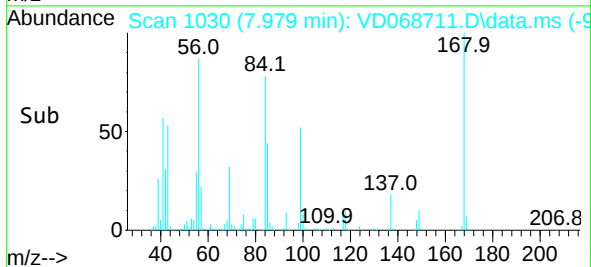
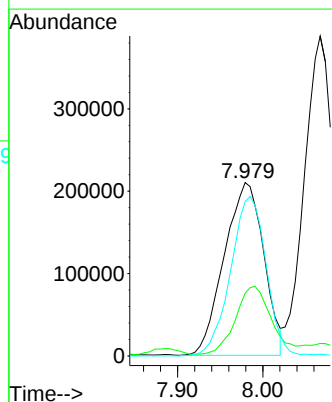
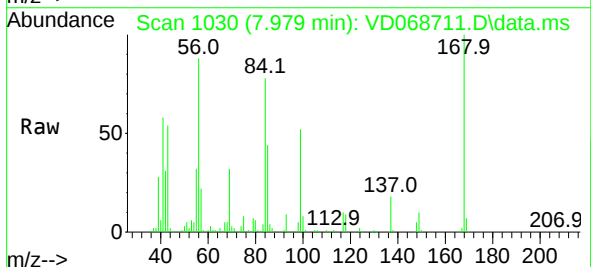
Instrument :  
MSVOA\_D  
ClientSampleId :  
B2-0-2

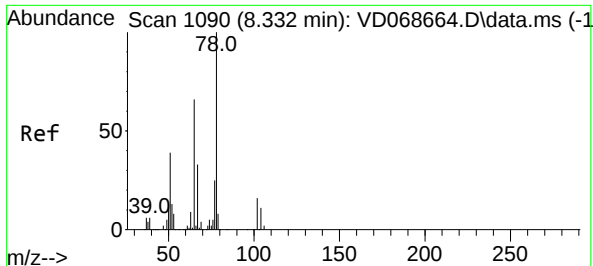
Tgt Ion: 43 Resp: 32504  
Ion Ratio Lower Upper  
43 100  
72 19.0 28.6 43.0#



#31  
Cyclohexane  
Concen: 76.20 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

Tgt Ion: 56 Resp: 675655  
Ion Ratio Lower Upper  
56 100  
69 33.5 30.0 45.0  
84 89.4 82.0 123.0

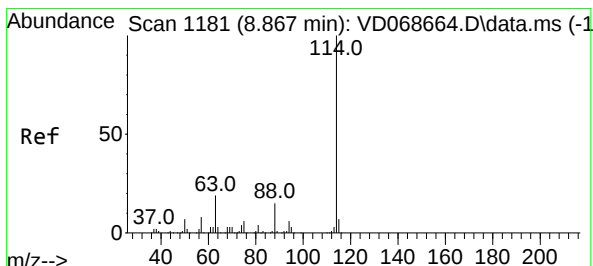
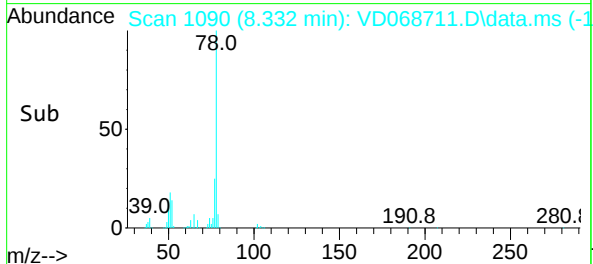
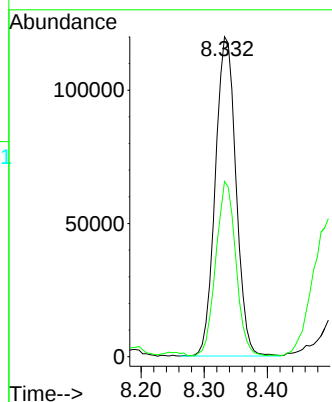
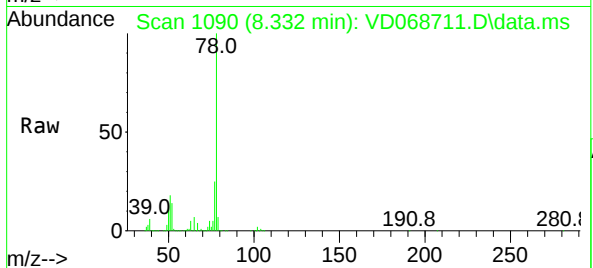




#33  
1,2-Dichloroethane-d4  
Concen: 49.77 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

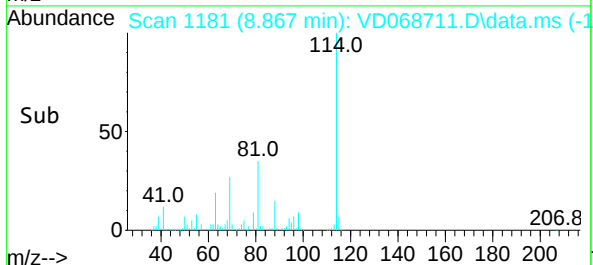
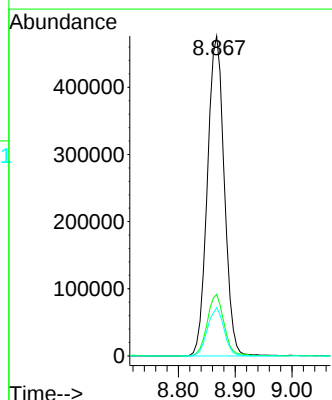
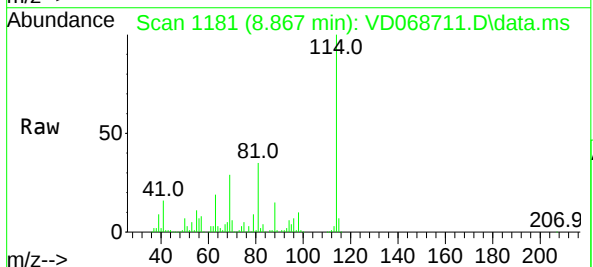
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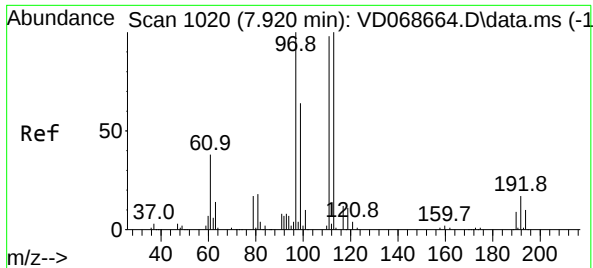
Tgt Ion: 65 Resp: 273479  
Ion Ratio Lower Upper  
65 100  
67 52.7 0.0 106.0



#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.867 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

Tgt Ion: 114 Resp: 978928  
Ion Ratio Lower Upper  
114 100  
63 19.2 0.0 38.2  
88 15.1 0.0 29.4

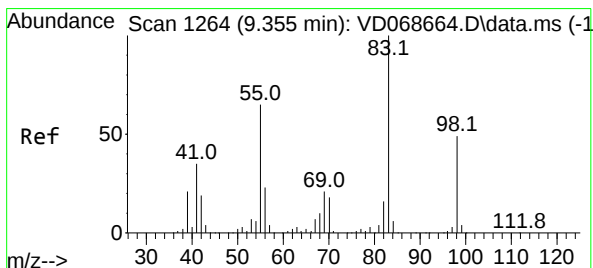
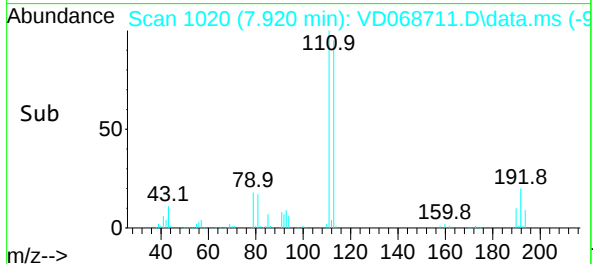
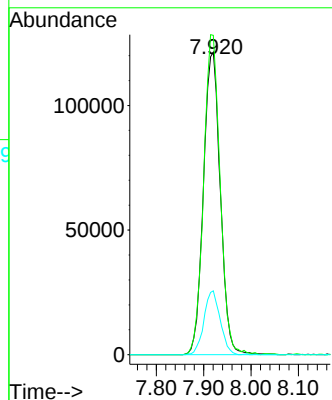
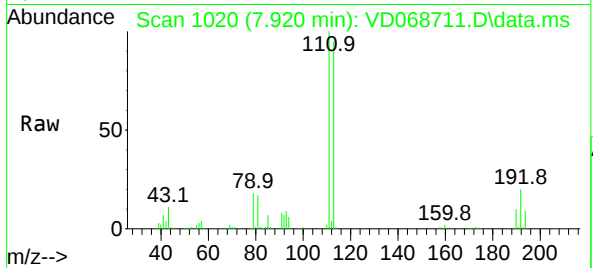




#35  
Dibromofluoromethane  
Concen: 49.34 ug/l  
RT: 7.920 min Scan# 1020  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

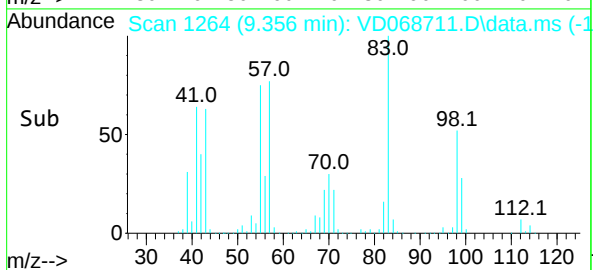
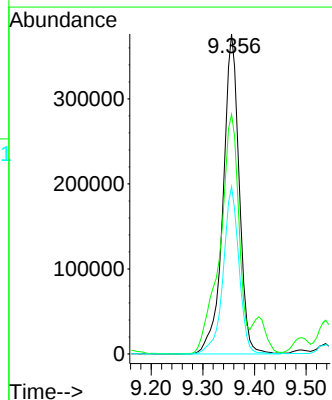
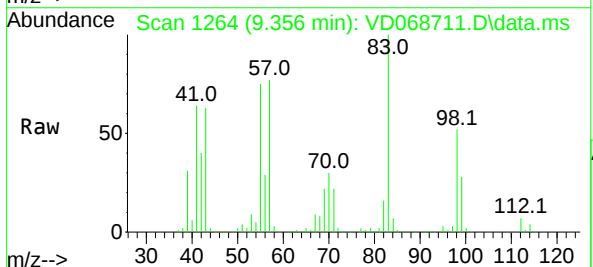
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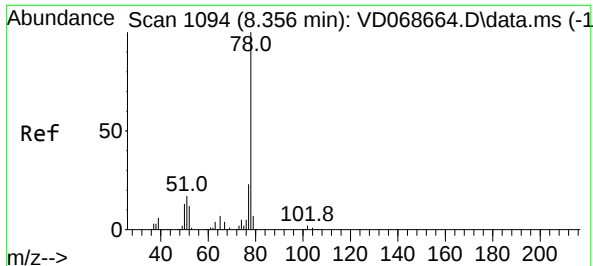
Tgt Ion:113 Resp: 300548  
Ion Ratio Lower Upper  
113 100  
111 103.3 82.5 123.7  
192 20.2 15.1 22.7



#39  
Methylcyclohexane  
Concen: 75.62 ug/l  
RT: 9.356 min Scan# 1264  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

Tgt Ion: 83 Resp: 816053  
Ion Ratio Lower Upper  
83 100  
55 74.8 51.7 77.5  
98 52.3 38.8 58.2

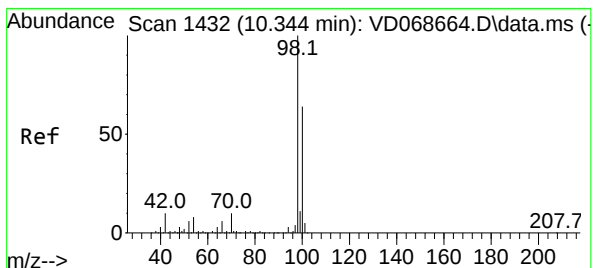
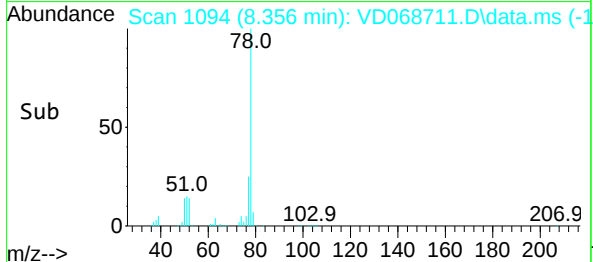
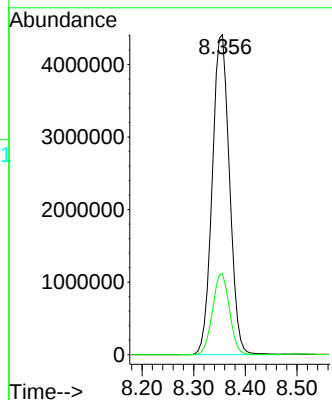
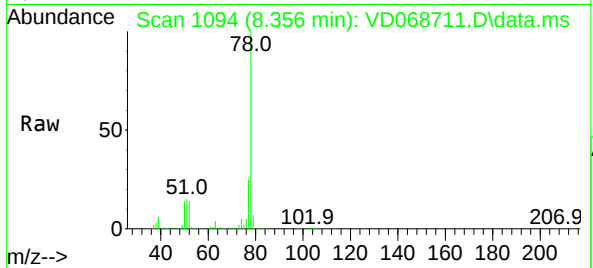




#40  
Benzene  
Concen: 401.10 ug/l  
RT: 8.356 min Scan# 1094  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

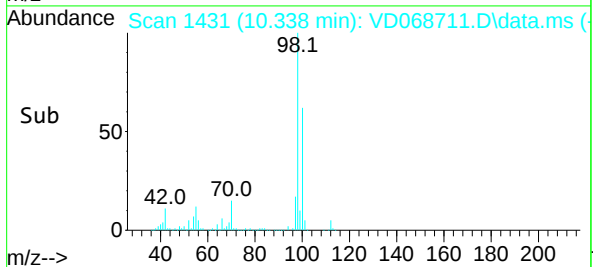
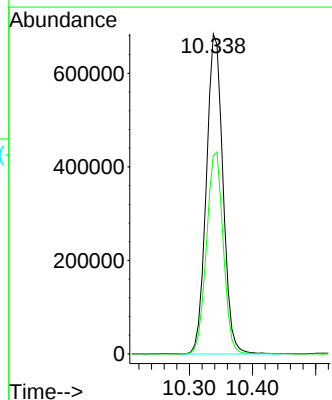
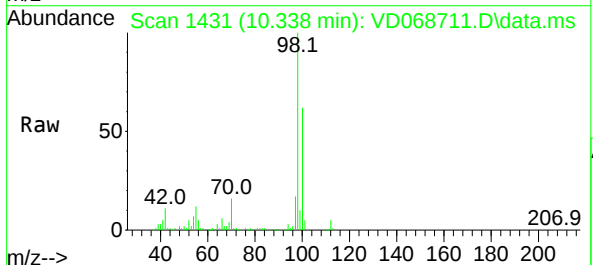
Instrument :  
MSVOA\_D  
ClientSampleId :  
B2-0-2

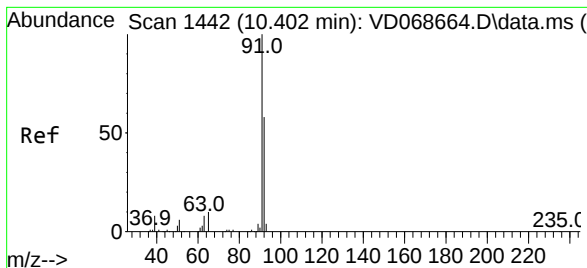
Tgt Ion: 78 Resp:10232249  
Ion Ratio Lower Upper  
78 100  
77 25.3 18.2 27.2



#50  
Toluene-d8  
Concen: 53.06 ug/l  
RT: 10.338 min Scan# 1431  
Delta R.T. -0.006 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

Tgt Ion: 98 Resp: 1245951  
Ion Ratio Lower Upper  
98 100  
100 63.7 51.8 77.6





#52

Toluene

Concen: 6.49 ug/l

RT: 10.403 min Scan# 1442

Delta R.T. 0.000 min

Lab File: VD068711.D

Acq: 29 Mar 2021 21:18

Instrument :

MSVOA\_D

ClientSampleId :

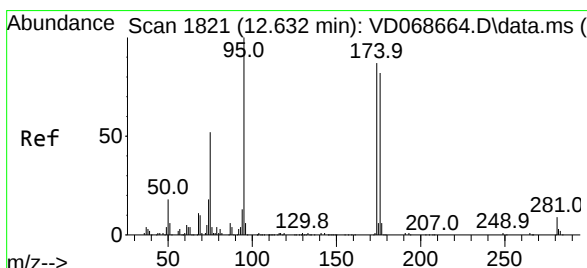
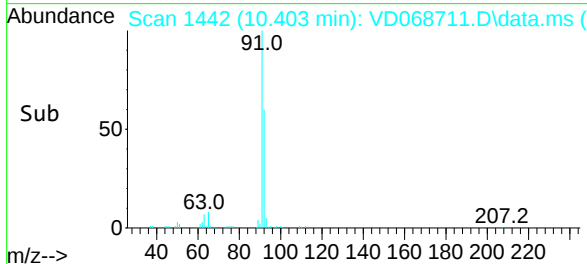
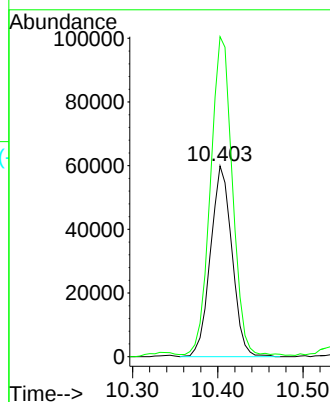
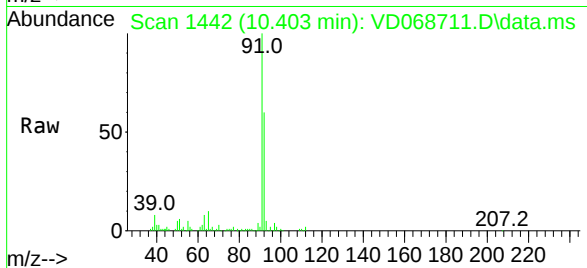
B2-0-2

Tgt Ion: 92 Resp: 104749

Ion Ratio Lower Upper

92 100

91 171.2 139.1 208.7



#62

4-Bromofluorobenzene

Concen: 59.74 ug/l

RT: 12.632 min Scan# 1821

Delta R.T. 0.000 min

Lab File: VD068711.D

Acq: 29 Mar 2021 21:18

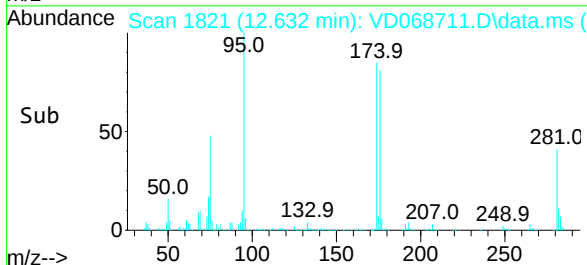
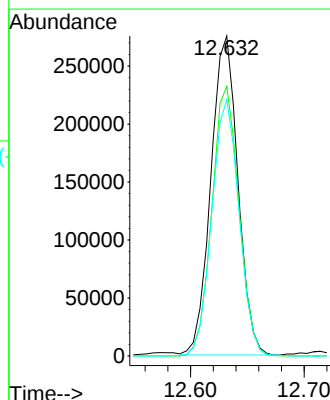
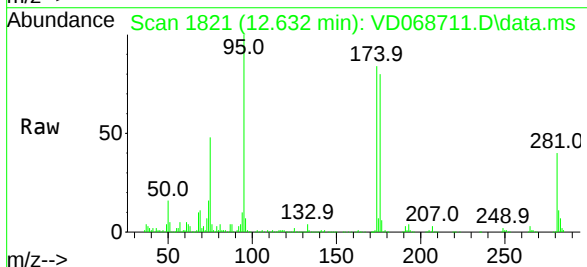
Tgt Ion: 95 Resp: 454802

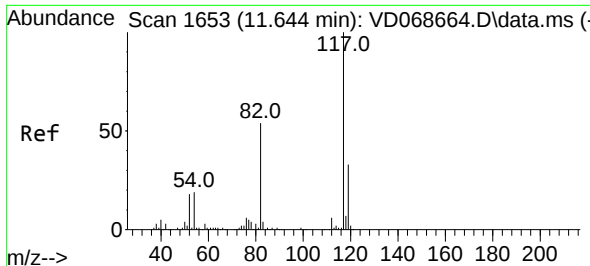
Ion Ratio Lower Upper

95 100

174 84.6 0.0 168.0

176 81.1 0.0 160.2

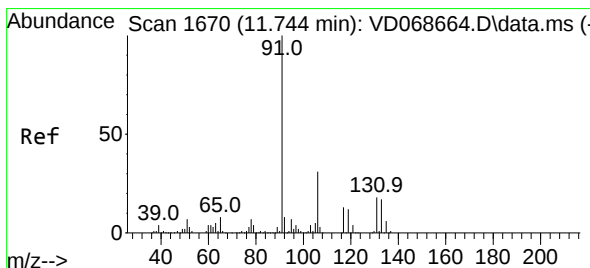
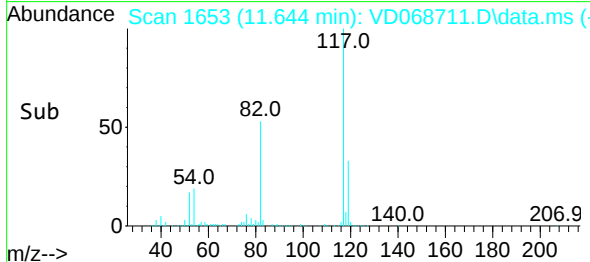
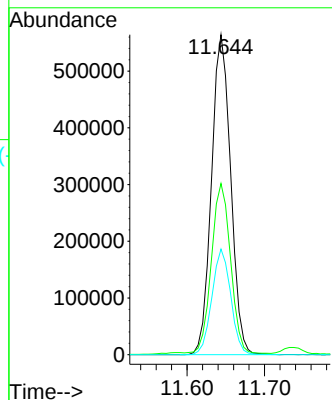
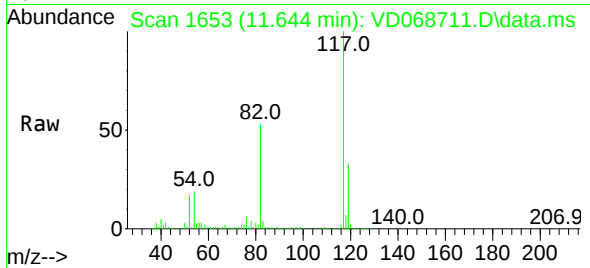




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.644 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

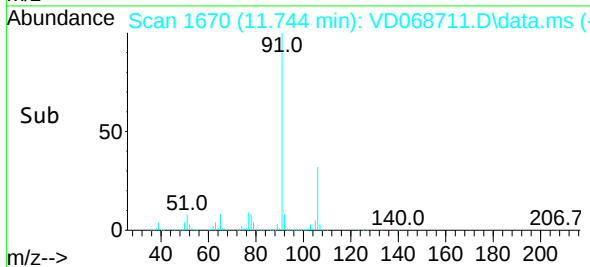
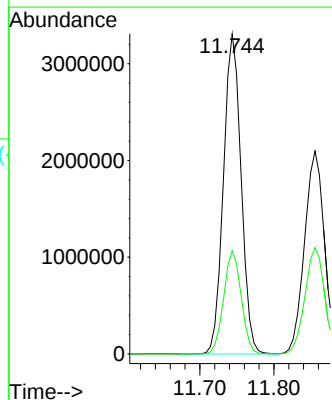
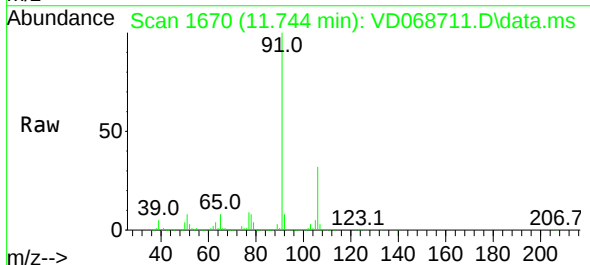
Instrument :  
MSVOA\_D  
ClientSampleId :  
B2-0-2

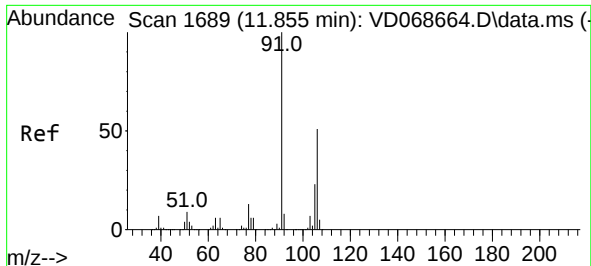
Tgt Ion:117 Resp: 974352  
Ion Ratio Lower Upper  
117 100  
82 52.8 43.5 65.3  
119 33.0 26.7 40.1



#67  
Ethyl Benzene  
Concen: 163.30 ug/l  
RT: 11.744 min Scan# 1670  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

Tgt Ion: 91 Resp: 5462708  
Ion Ratio Lower Upper  
91 100  
106 32.3 25.1 37.7

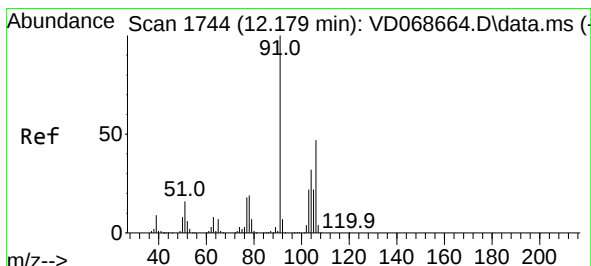
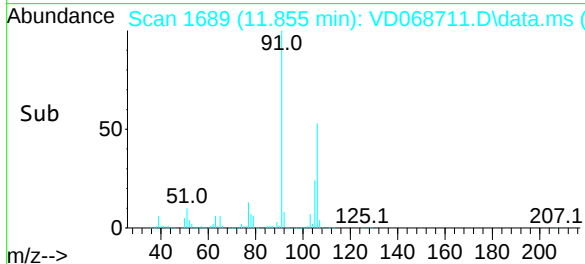
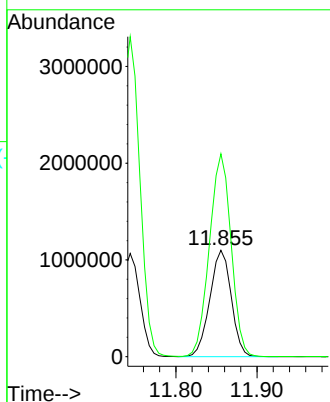
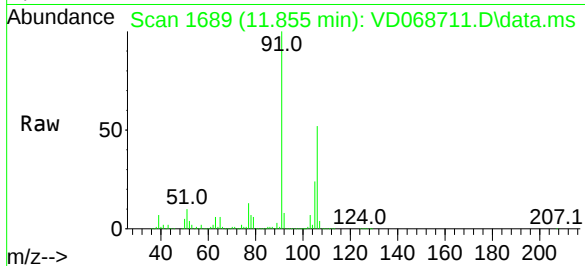




#68  
m/p-Xylenes  
Concen: 154.51 ug/l  
RT: 11.855 min Scan# 1689  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

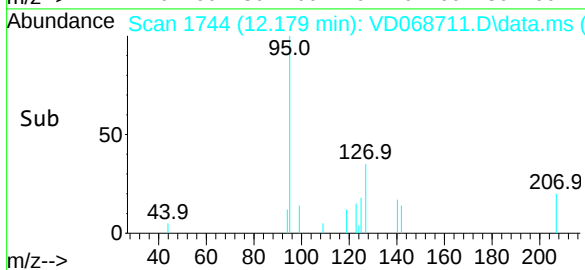
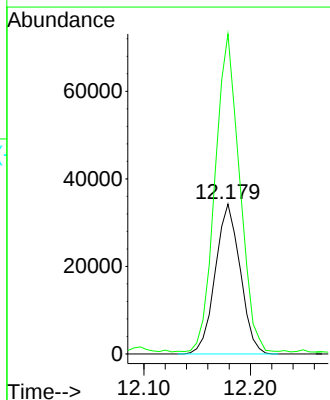
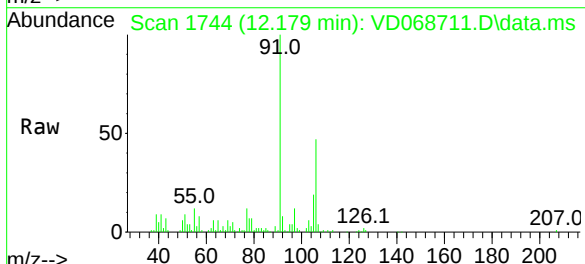
Instrument :  
MSVOA\_D  
ClientSampleId :  
B2-0-2

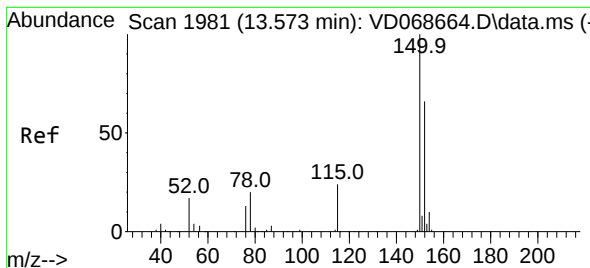
Tgt Ion:106 Resp: 2013783  
Ion Ratio Lower Upper  
106 100  
91 193.3 158.6 238.0



#69  
o-Xylene  
Concen: 4.60 ug/l  
RT: 12.179 min Scan# 1744  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

Tgt Ion:106 Resp: 55577  
Ion Ratio Lower Upper  
106 100  
91 208.4 105.0 315.0

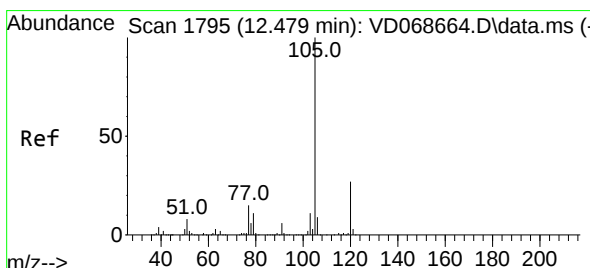
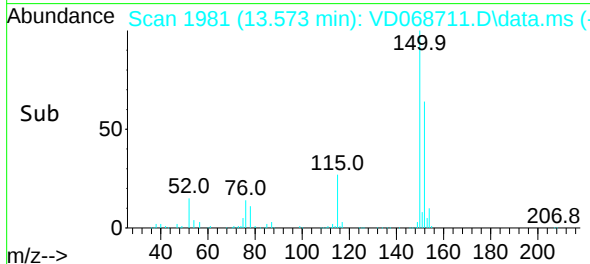
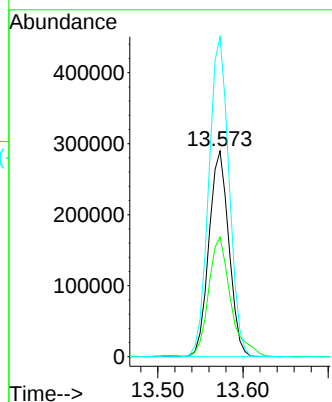
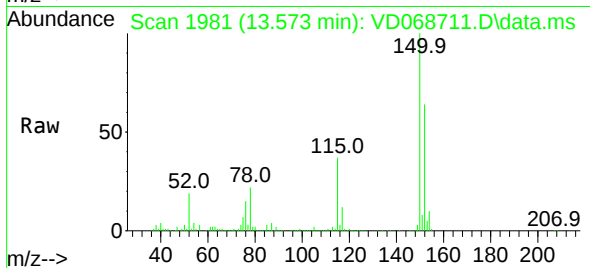




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.573 min Scan# 1981  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

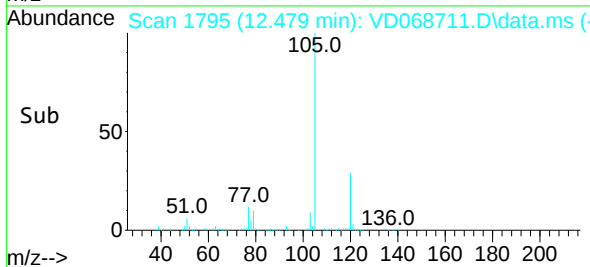
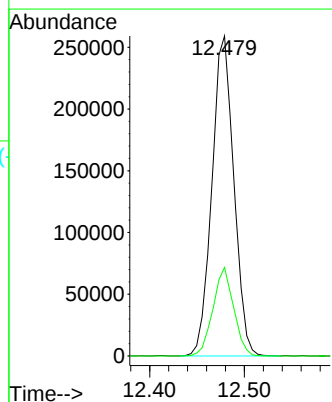
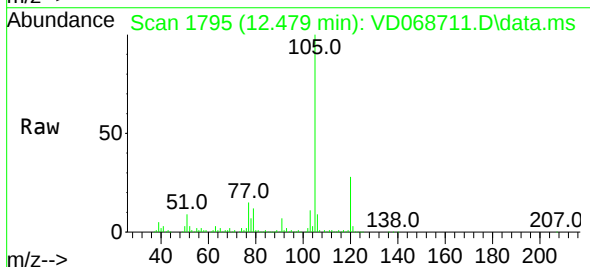
Instrument :  
MSVOA\_D  
ClientSampleId :  
B2-0-2

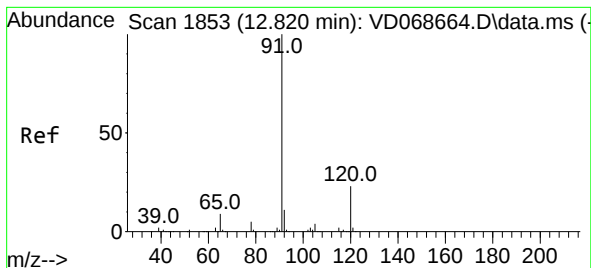
Tgt Ion:152 Resp: 470681  
Ion Ratio Lower Upper  
152 100  
115 64.0 29.3 87.8  
150 157.6 0.0 347.6



#73  
Isopropylbenzene  
Concen: 12.89 ug/l  
RT: 12.479 min Scan# 1795  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

Tgt Ion:105 Resp: 416816  
Ion Ratio Lower Upper  
105 100  
120 26.1 13.4 40.2





#78

n-propylbenzene

Concen: 23.52 ug/l

RT: 12.820 min Scan# 1853

Delta R.T. 0.000 min

Lab File: VD068711.D

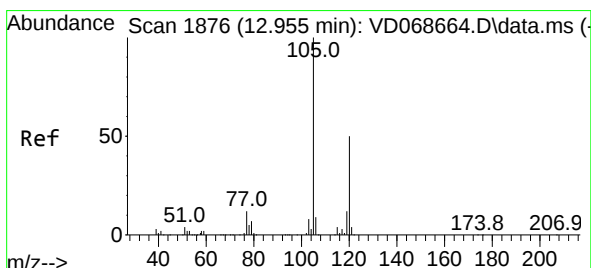
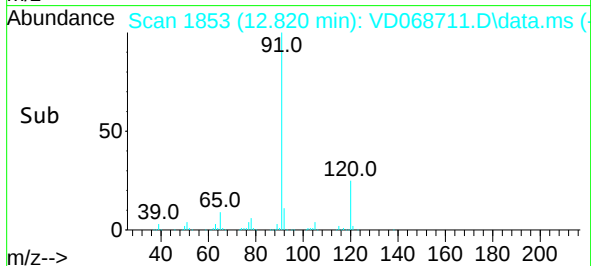
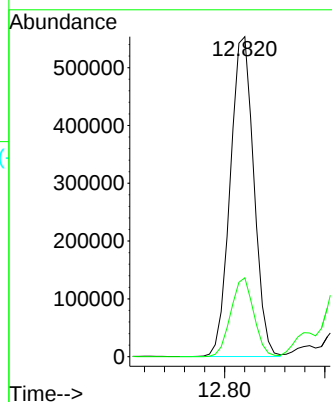
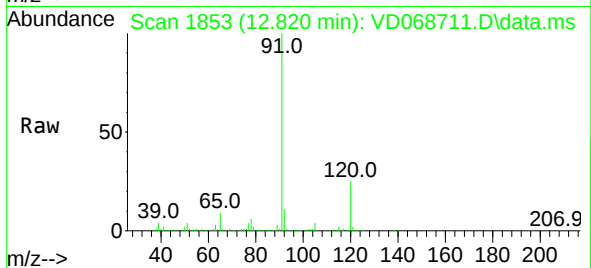
Acq: 29 Mar 2021 21:18

Tgt Ion: 91 Resp: 905596

Ion Ratio Lower Upper

91 100

120 24.0 11.4 34.2



#80

1,3,5-Trimethylbenzene

Concen: 9.20 ug/l

RT: 12.955 min Scan# 1876

Delta R.T. 0.000 min

Lab File: VD068711.D

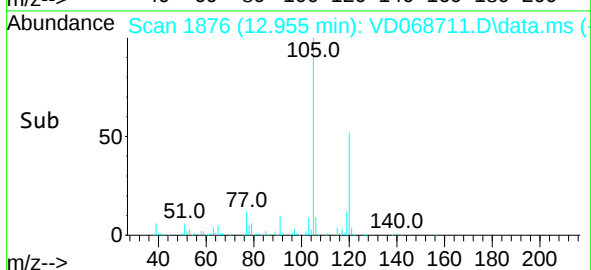
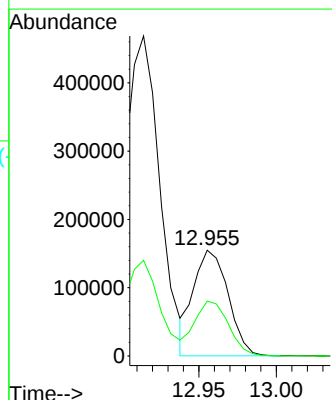
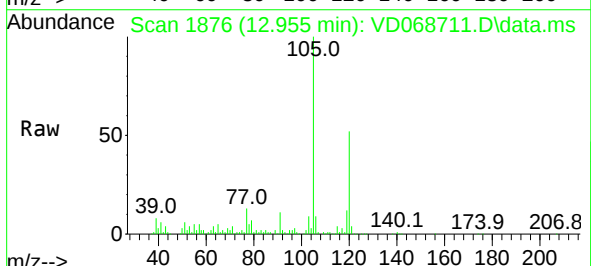
Acq: 29 Mar 2021 21:18

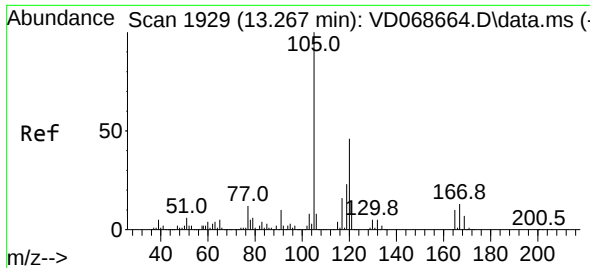
Tgt Ion: 105 Resp: 240614

Ion Ratio Lower Upper

105 100

120 51.2 24.9 74.7

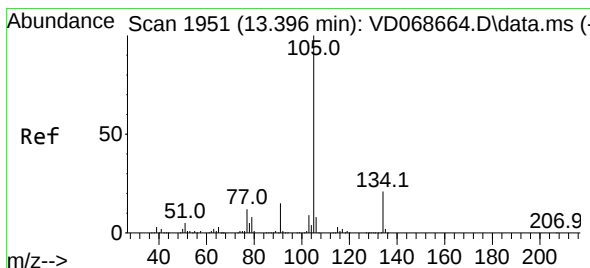
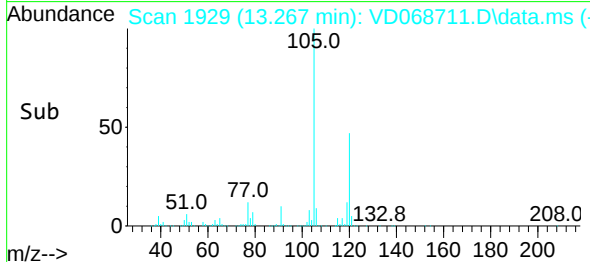
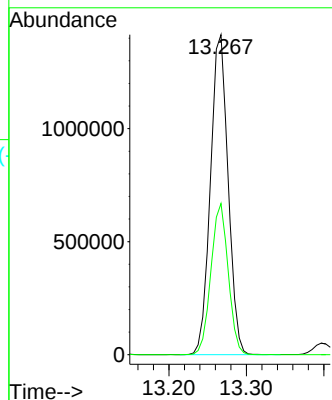
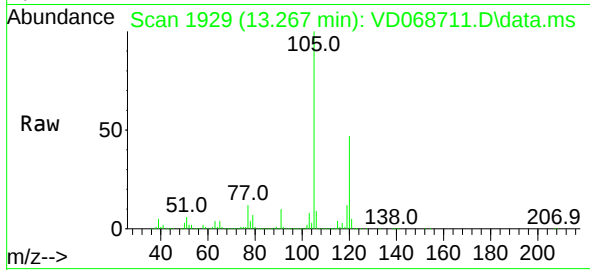




#84  
1,2,4-Trimethylbenzene  
Concen: 82.78 ug/l  
RT: 13.267 min Scan# 1929  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

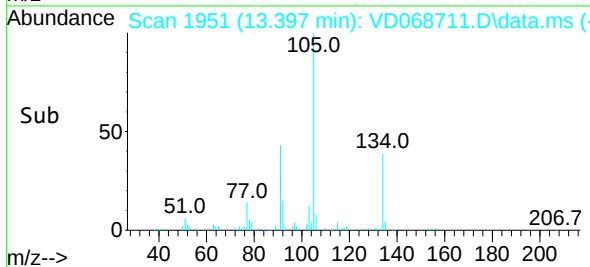
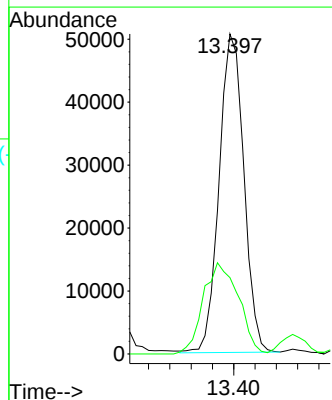
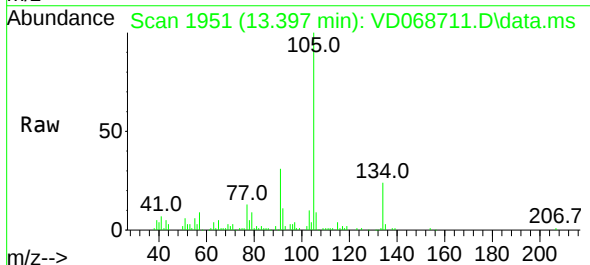
Instrument :  
MSVOA\_D  
ClientSampleId :  
B2-0-2

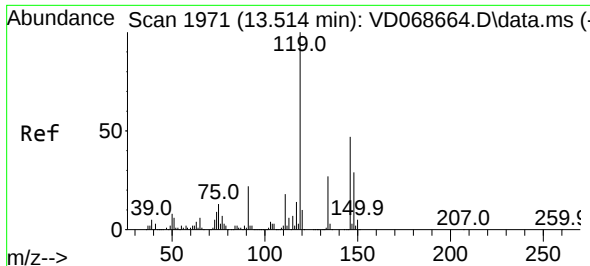
Tgt Ion:105 Resp: 2236677  
Ion Ratio Lower Upper  
105 100  
120 46.2 22.6 67.7



#85  
sec-Butylbenzene  
Concen: 2.51 ug/l  
RT: 13.397 min Scan# 1951  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

Tgt Ion:105 Resp: 81397  
Ion Ratio Lower Upper  
105 100  
134 40.9 10.0 29.8#

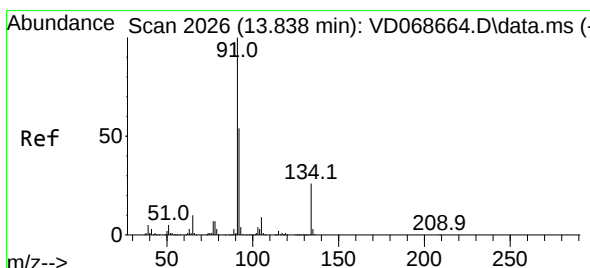
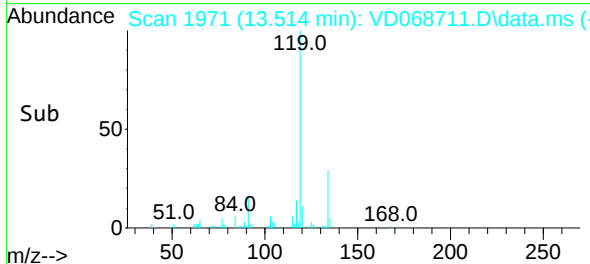
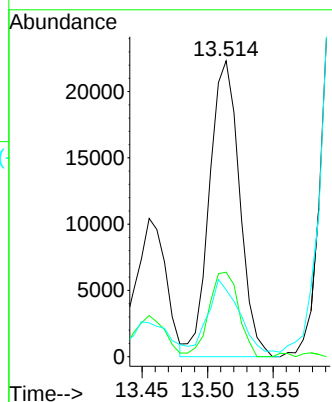
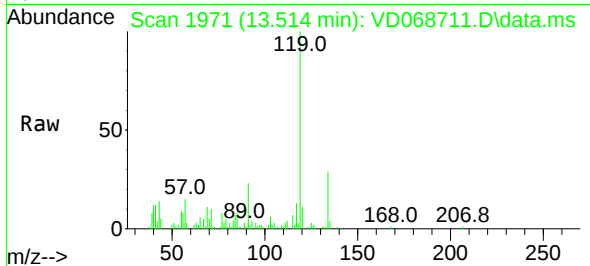




#86  
p-Isopropyltoluene  
Concen: 1.21 ug/l  
RT: 13.514 min Scan# 1971  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

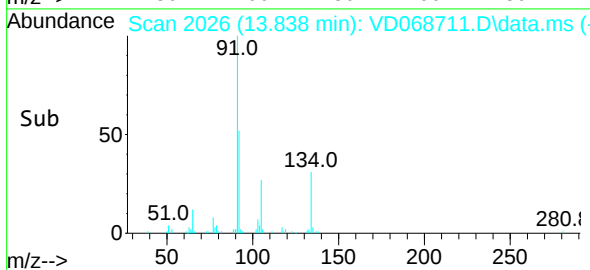
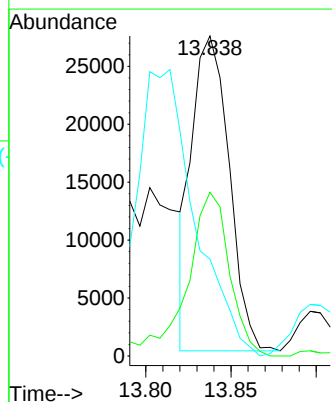
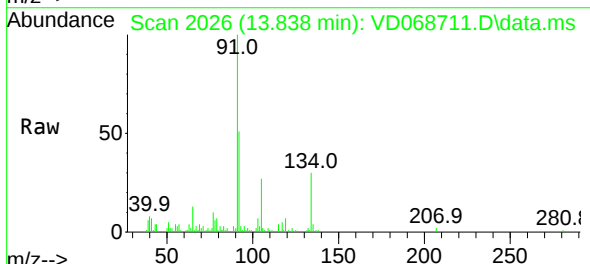
Instrument :  
MSVOA\_D  
ClientSampleId :  
B2-0-2

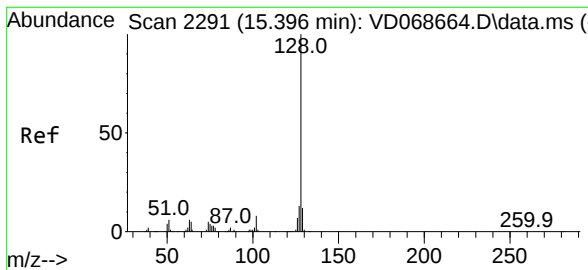
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 35611 |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 134      | 27.9  | 13.3  | 39.9  |
| 91       | 24.5  | 11.1  | 33.1  |



#89  
n-Butylbenzene  
Concen: 1.47 ug/l  
RT: 13.838 min Scan# 2026  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 91    | Resp: | 41124 |
| Ion      | Ratio | Lower | Upper |
| 91       | 100   |       |       |
| 92       | 58.1  | 26.7  | 80.1  |
| 134      | 0.0   | 12.9  | 38.6# |





#95  
Naphthalene  
Concen: 3.18 ug/l  
RT: 15.396 min Scan# 2291  
Delta R.T. 0.000 min  
Lab File: VD068711.D  
Acq: 29 Mar 2021 21:18

Instrument :  
MSVOA\_D  
ClientSampleId :  
B2-0-2

Tgt Ion:128 Resp: 46540  
Ion Ratio Lower Upper  
128 100  
127 13.2 10.2 15.4  
129 13.1 8.9 13.3

