

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD030521\  
 Data File : VD068546.D  
 Acq On : 05 Mar 2021 16:25  
 Operator : VA/SY  
 Sample : M1579-01  
 Misc : 6.18G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 HR-02-030521

Quant Time: Mar 05 23:13:03 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022621S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Feb 26 14:04:14 2021  
 Response via : Initial Calibration

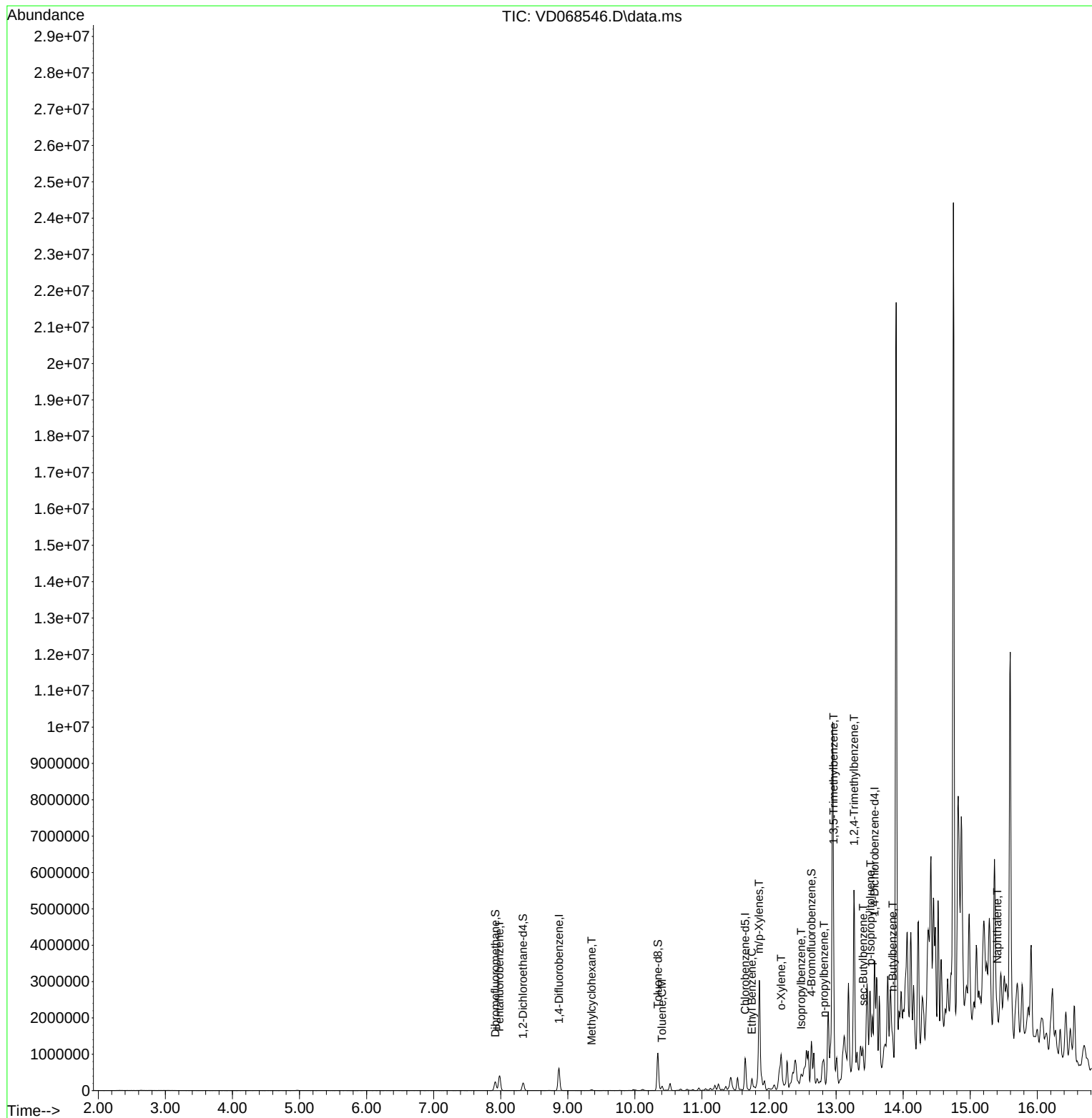
| Compound                    | R.T.           | QIon | Response           | Conc   | Units  | Dev(Min) |
|-----------------------------|----------------|------|--------------------|--------|--------|----------|
| -----                       |                |      |                    |        |        |          |
| Internal Standards          |                |      |                    |        |        |          |
| 1) Pentafluorobenzene       | 7.979          | 168  | 317121             | 50.00  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.867          | 114  | 558296             | 50.00  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.644         | 117  | 535666             | 50.00  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.573         | 152  | 264675             | 50.00  | ug/l   | 0.00     |
|                             |                |      |                    |        |        |          |
| System Monitoring Compounds |                |      |                    |        |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.332          | 65   | 165394             | 52.20  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 50 - 163 |      | Recovery = 104.40% |        |        |          |
| 35) Dibromofluoromethane    | 7.920          | 113  | 172259             | 51.22  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 54 - 147 |      | Recovery = 102.44% |        |        |          |
| 50) Toluene-d8              | 10.344         | 98   | 708375             | 52.88  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 49 - 140 |      | Recovery = 105.76% |        |        |          |
| 62) 4-Bromofluorobenzene    | 12.632         | 95   | 241907             | 56.03  | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 25 - 144 |      | Recovery = 112.06% |        |        |          |
|                             |                |      |                    |        |        |          |
| Target Compounds            |                |      |                    |        | Qvalue |          |
| 39) Methylcyclohexane       | 9.356          | 83   | 9341               | 1.43   | ug/l # | 93       |
| 52) Toluene                 | 10.403         | 92   | 51607              | 5.31   | ug/l   | 96       |
| 67) Ethyl Benzene           | 11.744         | 91   | 211533             | 10.86  | ug/l   | 100      |
| 68) m/p-Xylenes             | 11.850         | 106  | 371698             | 50.26  | ug/l   | 98       |
| 69) o-Xylene                | 12.179         | 106  | 228487             | 33.55  | ug/l   | 97       |
| 73) Isopropylbenzene        | 12.479         | 105  | 131501             | 6.70   | ug/l   | 98       |
| 78) n-propylbenzene         | 12.820         | 91   | 472190             | 20.13  | ug/l   | 98       |
| 80) 1,3,5-Trimethylbenzene  | 12.961         | 105  | 778825             | 48.41  | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.267         | 105  | 2831639            | 175.74 | ug/l   | 97       |
| 85) sec-Butylbenzene        | 13.402         | 105  | 302353             | 15.63  | ug/l   | 88       |
| 86) p-Isopropyltoluene      | 13.514         | 119  | 231184             | 13.16  | ug/l   | 98       |
| 89) n-Butylbenzene          | 13.844         | 91   | 412851             | 24.37  | ug/l # | 80       |
| 95) Naphthalene             | 15.402         | 128  | 339871             | 32.75  | ug/l # | 93       |
| -----                       |                |      |                    |        |        |          |

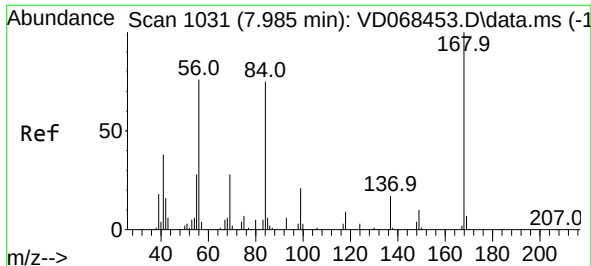
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD030521\  
Data File : VD068546.D  
Acq On : 05 Mar 2021 16:25  
Operator : VA/SY  
Sample : M1579-01  
Misc : 6.18G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-02-030521

Quant Time: Mar 05 23:13:03 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D022621S.M  
Quant Title : SW846 8260  
QLast Update : Fri Feb 26 14:04:14 2021  
Response via : Initial Calibration

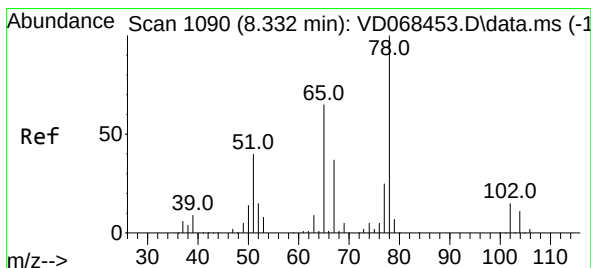
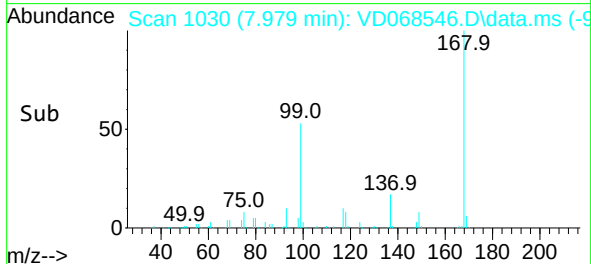
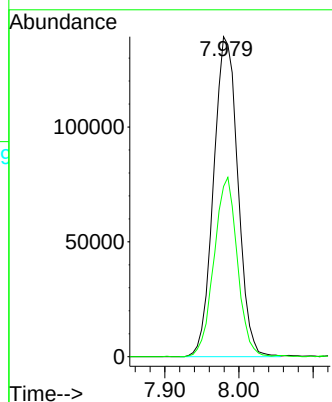
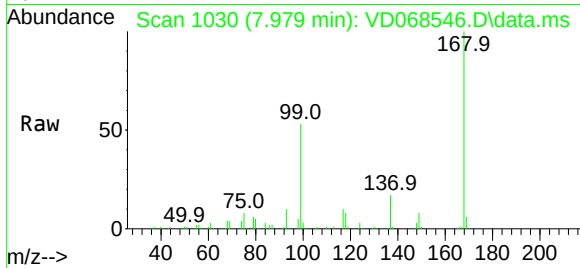




#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.979 min Scan# 1030  
Delta R.T. -0.006 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

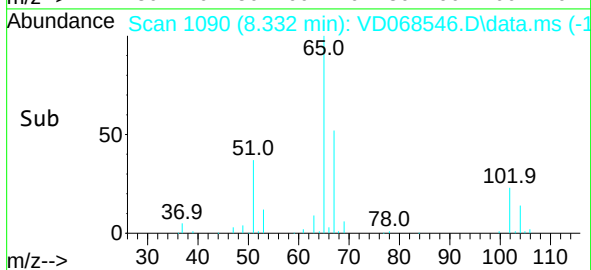
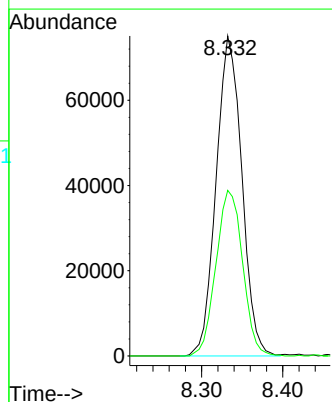
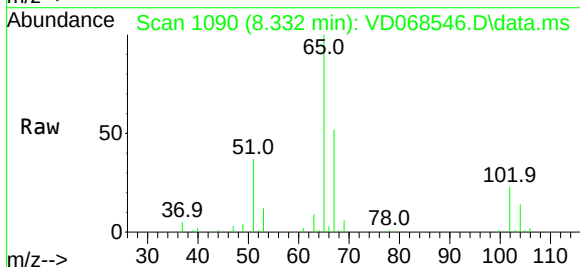
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-02-030521

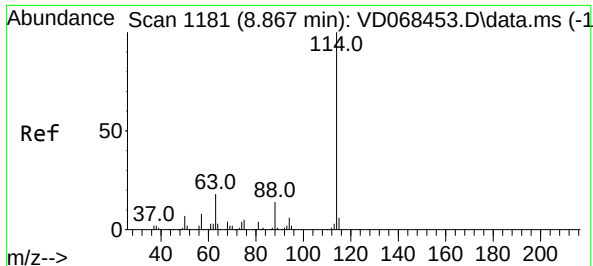
Tgt Ion:168 Resp: 317121  
Ion Ratio Lower Upper  
168 100  
99 53.2 43.5 65.3



#33  
1,2-Dichloroethane-d4  
Concen: 52.20 ug/l  
RT: 8.332 min Scan# 1090  
Delta R.T. 0.000 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

Tgt Ion: 65 Resp: 165394  
Ion Ratio Lower Upper  
65 100  
67 53.6 0.0 105.0

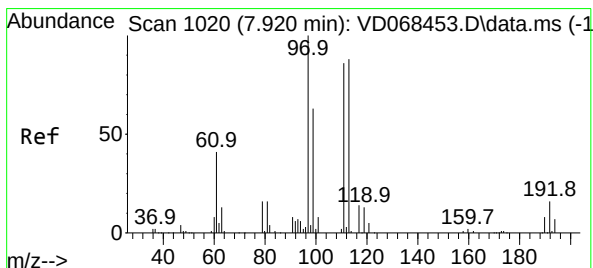
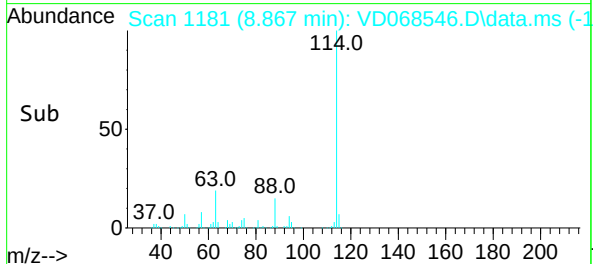
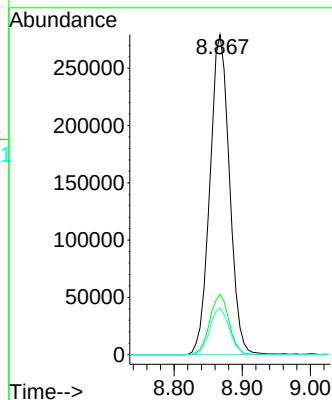
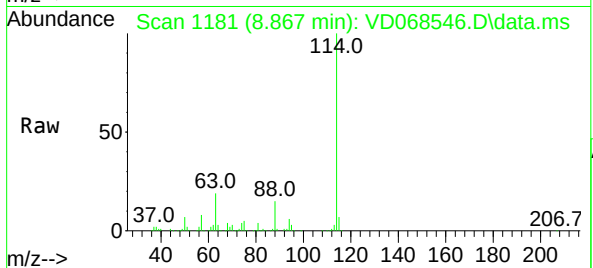




#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.867 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

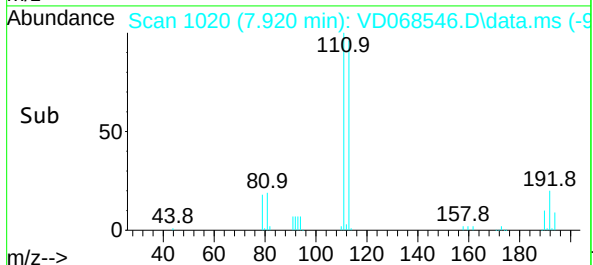
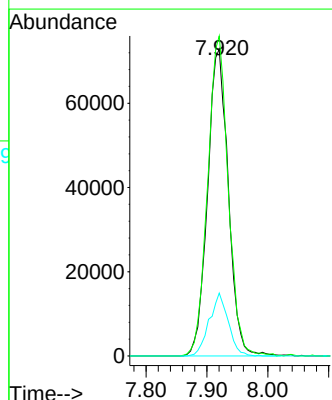
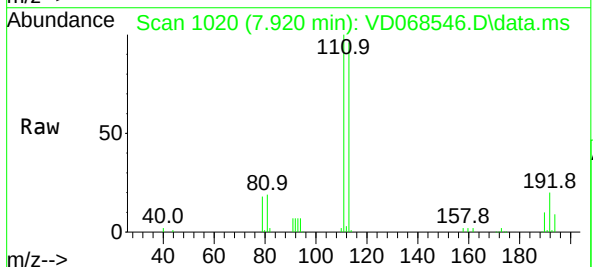
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-02-030521

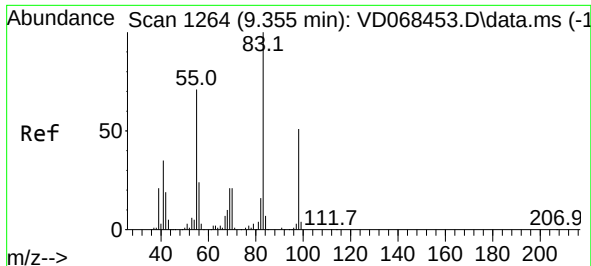
Tgt Ion:114 Resp: 558296  
Ion Ratio Lower Upper  
114 100  
63 18.9 0.0 34.8  
88 14.7 0.0 31.6



#35  
Dibromofluoromethane  
Concen: 51.22 ug/l  
RT: 7.920 min Scan# 1020  
Delta R.T. 0.000 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

Tgt Ion:113 Resp: 172259  
Ion Ratio Lower Upper  
113 100  
111 103.6 81.4 122.0  
192 18.8 16.1 24.1





#39

Methylcyclohexane

Concen: 1.43 ug/l

RT: 9.356 min Scan# 1264

Delta R.T. 0.000 min

Lab File: VD068546.D

Acq: 05 Mar 2021 16:25

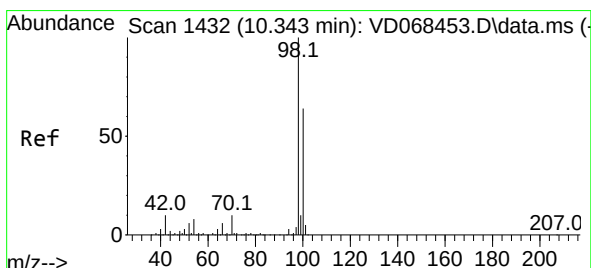
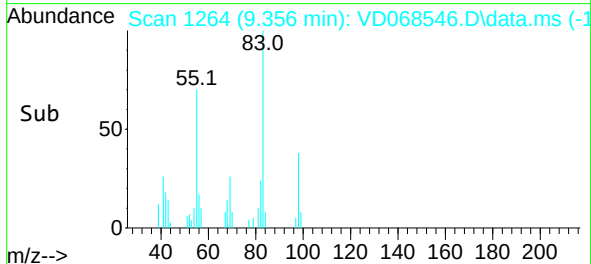
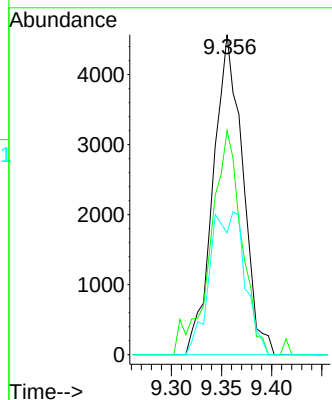
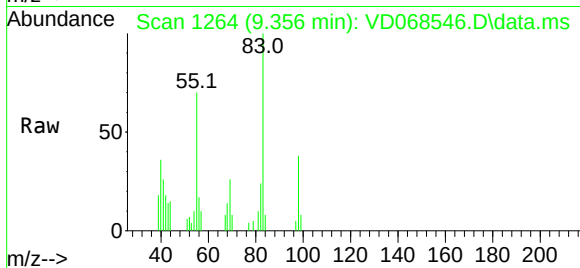
Instrument :

MSVOA\_D

ClientSampleId :

HR-02-030521

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 83    | Resp: | 9341  |
| Ion      | Ratio | Lower | Upper |
| 83       | 100   |       |       |
| 55       | 70.1  | 55.2  | 82.8  |
| 98       | 38.1  | 39.1  | 58.7# |



#50

Toluene-d8

Concen: 52.88 ug/l

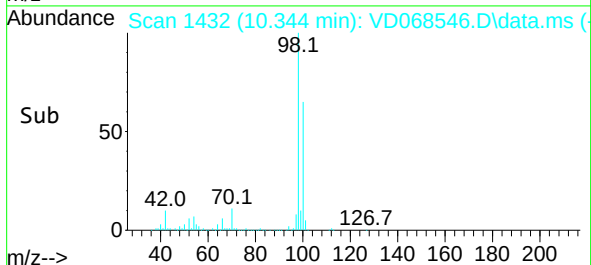
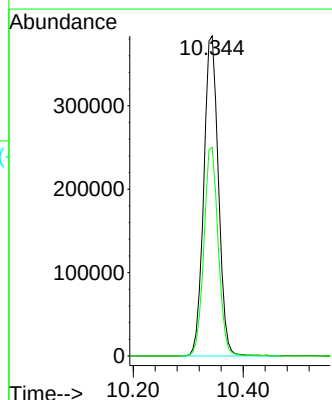
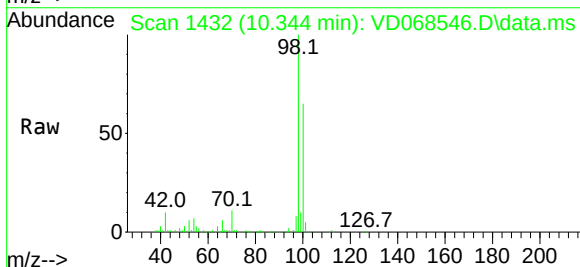
RT: 10.344 min Scan# 1432

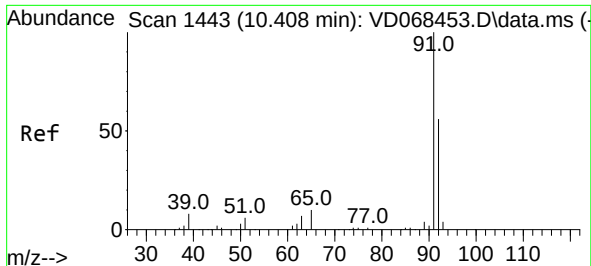
Delta R.T. 0.000 min

Lab File: VD068546.D

Acq: 05 Mar 2021 16:25

|          |       |       |        |
|----------|-------|-------|--------|
| Tgt Ion: | 98    | Resp: | 708375 |
| Ion      | Ratio | Lower | Upper  |
| 98       | 100   |       |        |
| 100      | 63.7  | 53.0  | 79.4   |

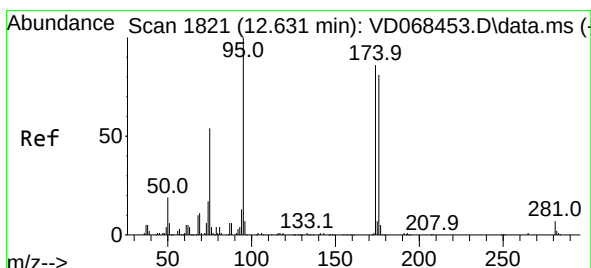
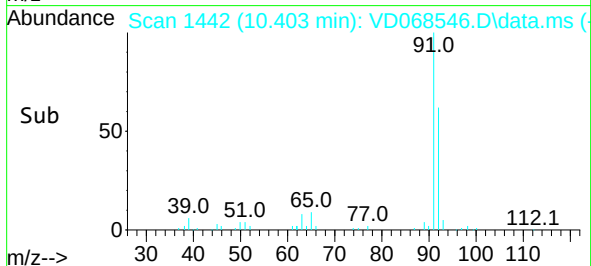
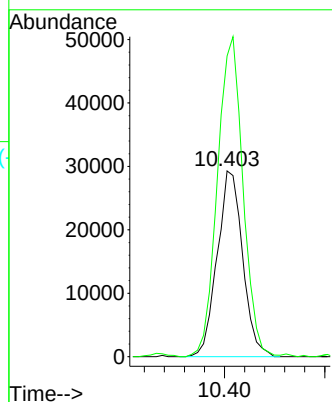
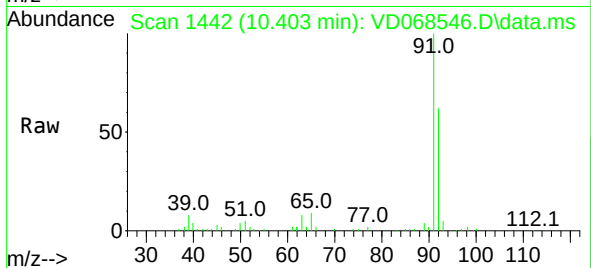




#52  
Toluene  
Concen: 5.31 ug/l  
RT: 10.403 min Scan# 1442  
Delta R.T. -0.005 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

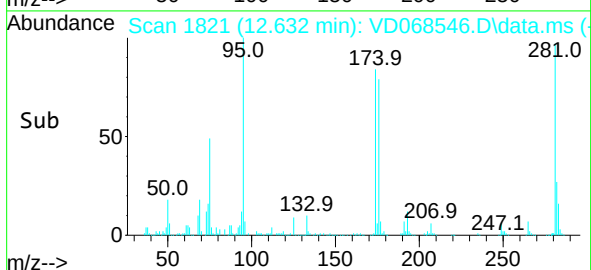
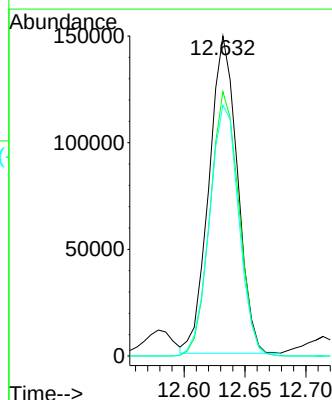
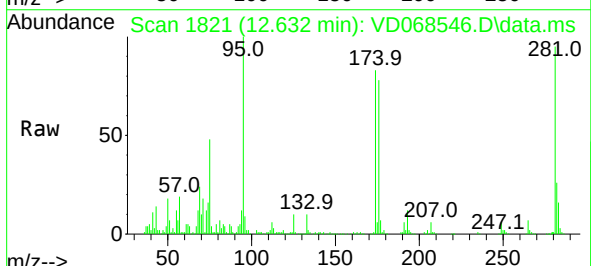
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-02-030521

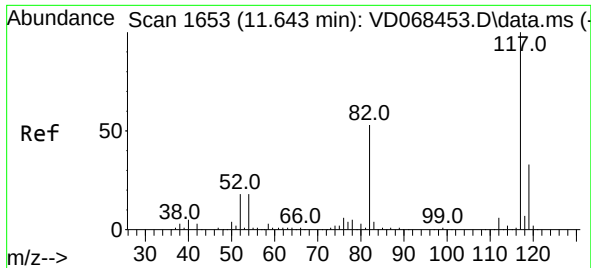
Tgt Ion: 92 Resp: 51607  
Ion Ratio Lower Upper  
92 100  
91 172.7 134.1 201.1



#62  
4-Bromofluorobenzene  
Concen: 56.03 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.000 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

Tgt Ion: 95 Resp: 241907  
Ion Ratio Lower Upper  
95 100  
174 84.2 0.0 172.4  
176 81.4 0.0 168.4

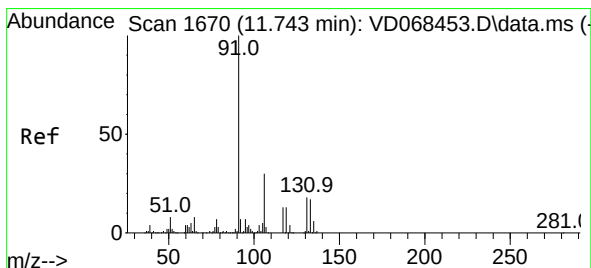
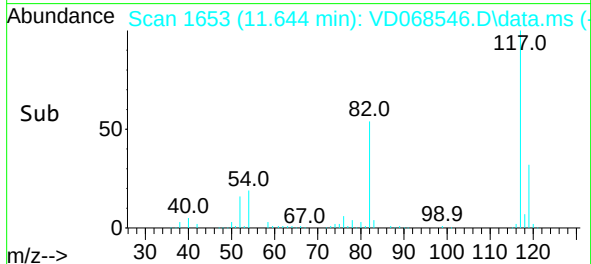
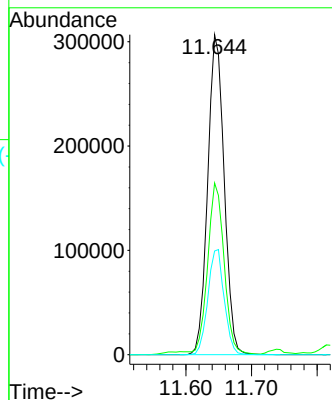
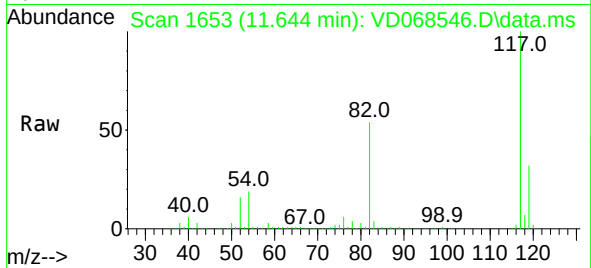




#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.644 min Scan# 1653  
Delta R.T. 0.000 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

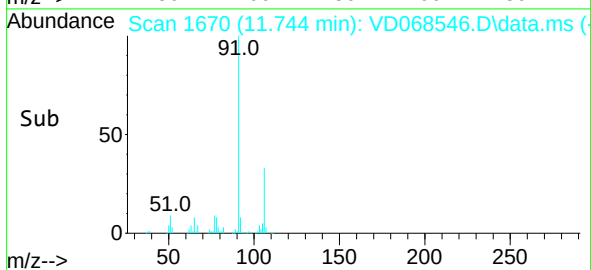
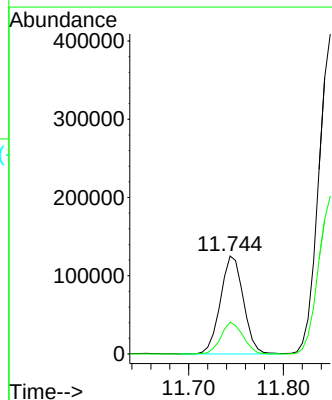
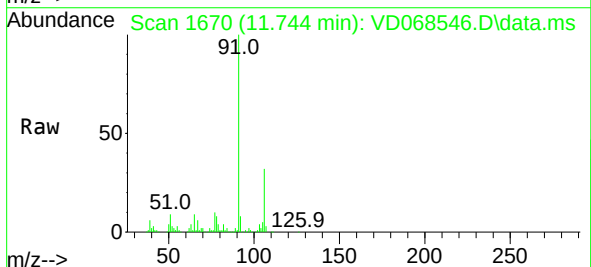
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-02-030521

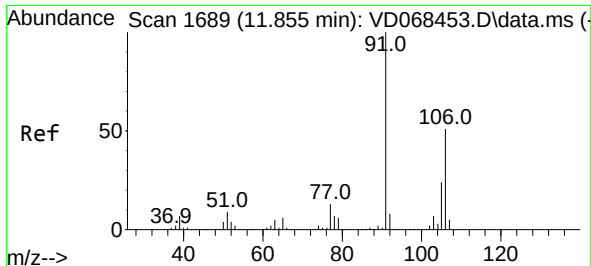
Tgt Ion:117 Resp: 535666  
Ion Ratio Lower Upper  
117 100  
82 52.7 41.4 62.0  
119 32.4 26.1 39.1



#67  
Ethyl Benzene  
Concen: 10.86 ug/l  
RT: 11.744 min Scan# 1670  
Delta R.T. 0.000 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

Tgt Ion: 91 Resp: 211533  
Ion Ratio Lower Upper  
91 100  
106 32.4 25.9 38.9

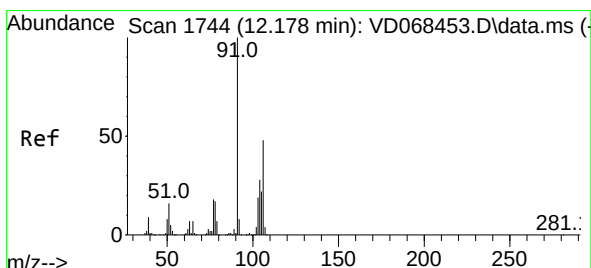
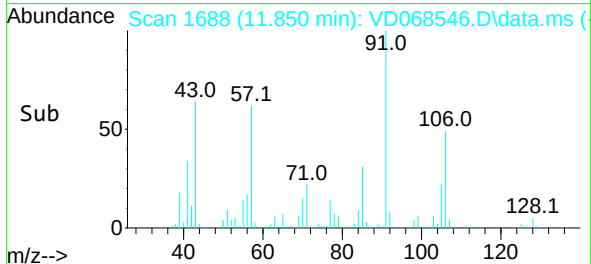
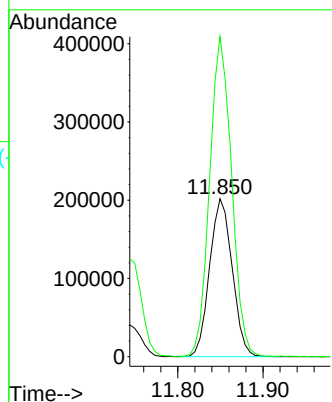
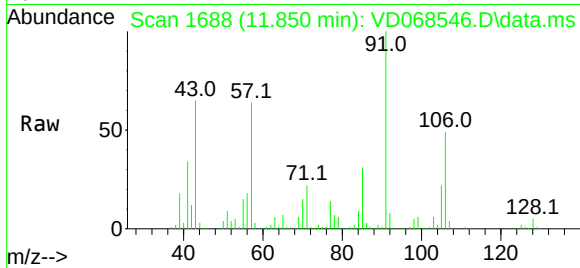




#68  
m/p-Xylenes  
Concen: 50.26 ug/l  
RT: 11.850 min Scan# 1688  
Delta R.T. -0.005 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

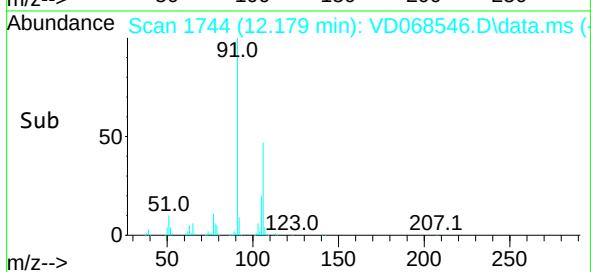
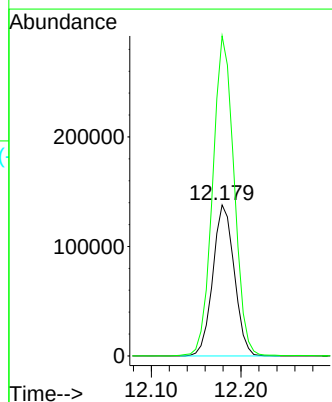
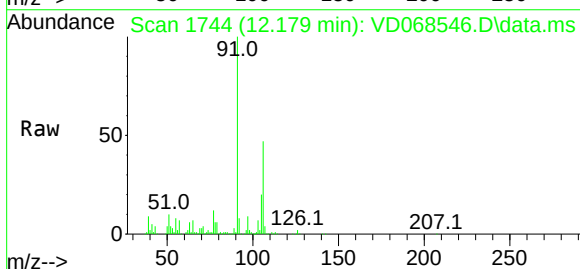
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-02-030521

Tgt Ion:106 Resp: 371698  
Ion Ratio Lower Upper  
106 100  
91 196.6 159.1 238.7

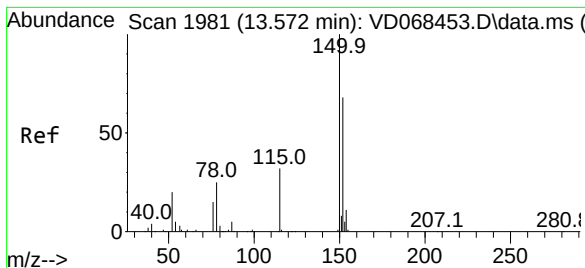


#69  
o-Xylene  
Concen: 33.55 ug/l  
RT: 12.179 min Scan# 1744  
Delta R.T. 0.000 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

Tgt Ion:106 Resp: 228487  
Ion Ratio Lower Upper  
106 100  
91 212.1 108.7 325.9



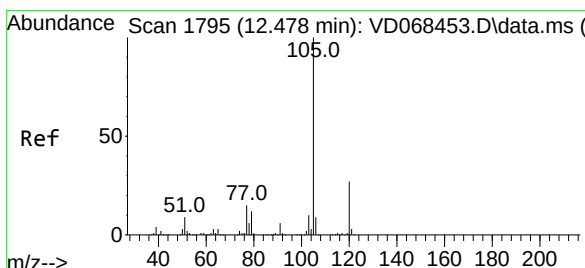
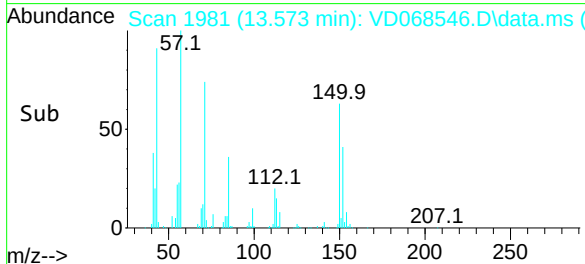
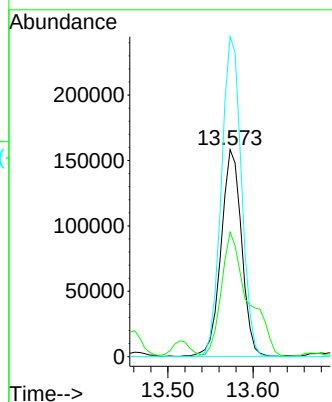
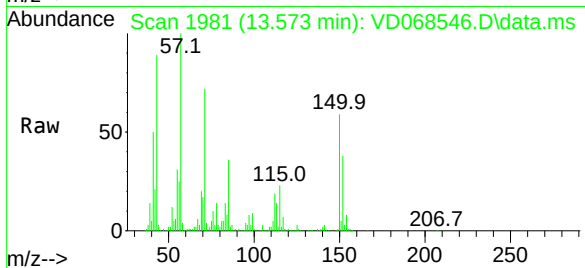




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.573 min Scan# 1981  
Delta R.T. 0.001 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

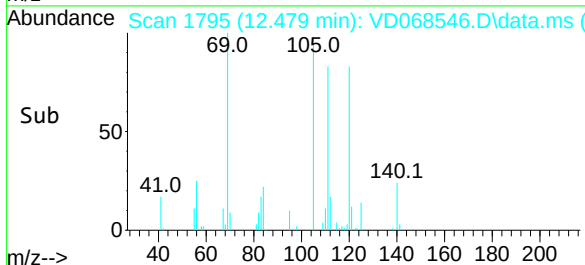
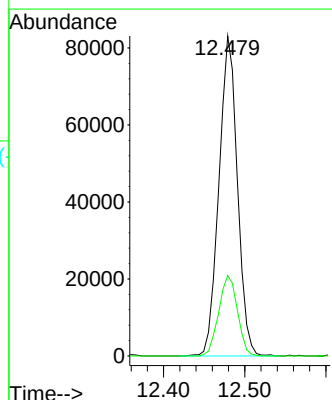
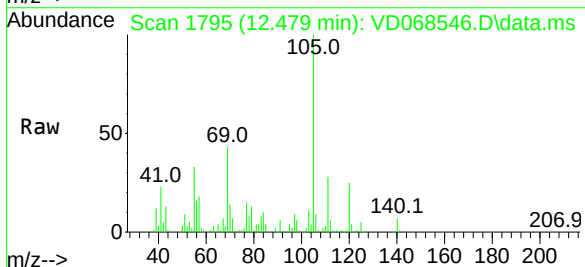
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-02-030521

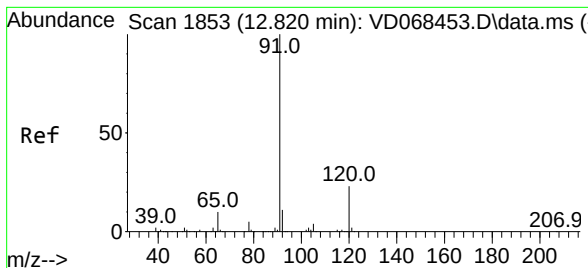
Tgt Ion:152 Resp: 264675  
Ion Ratio Lower Upper  
152 100  
115 78.5 28.9 86.8  
150 151.5 0.0 344.4



#73  
Isopropylbenzene  
Concen: 6.70 ug/l  
RT: 12.479 min Scan# 1795  
Delta R.T. 0.000 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

Tgt Ion:105 Resp: 131501  
Ion Ratio Lower Upper  
105 100  
120 25.4 13.2 39.6

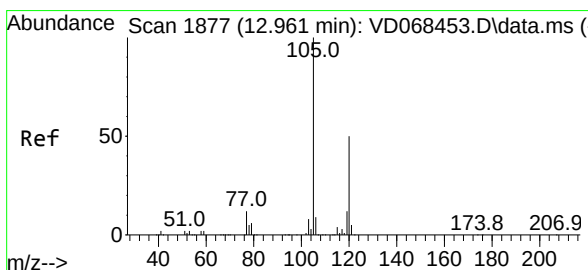
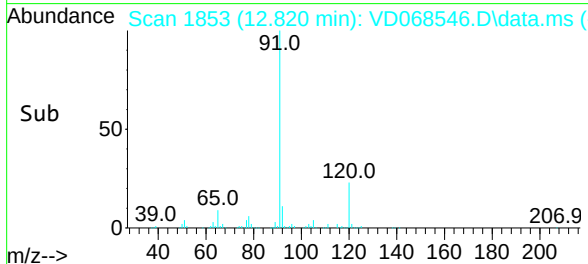
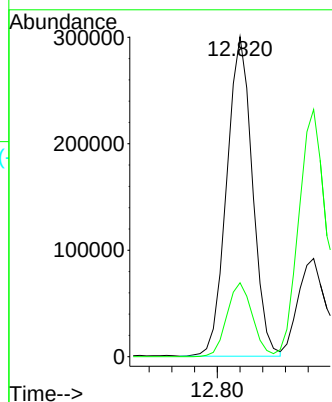
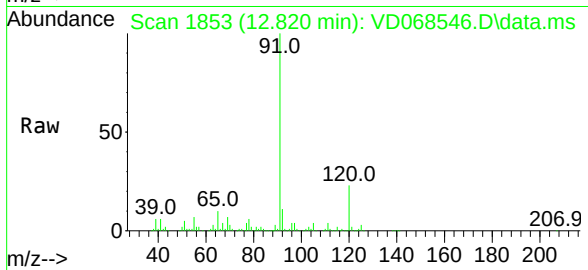




#78  
n-propylbenzene  
Concen: 20.13 ug/l  
RT: 12.820 min Scan# 1853  
Delta R.T. 0.000 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

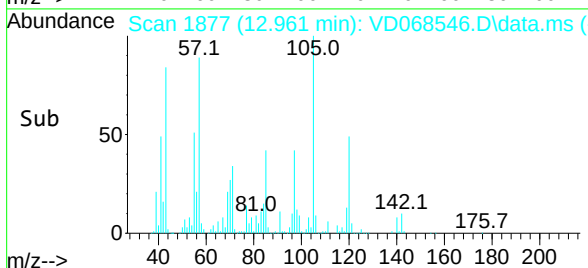
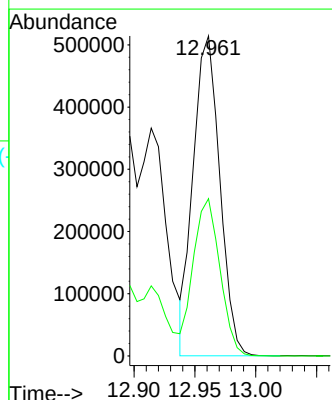
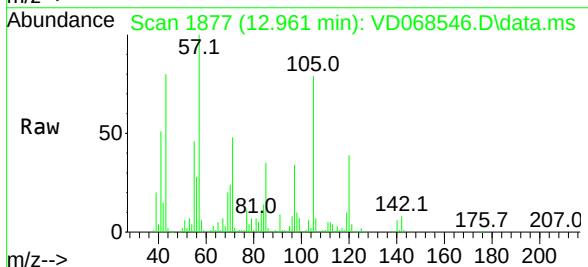
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-02-030521

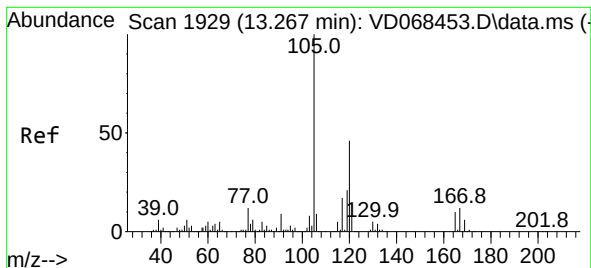
Tgt Ion: 91 Resp: 472190  
Ion Ratio Lower Upper  
91 100  
120 22.9 12.0 36.0



#80  
1,3,5-Trimethylbenzene  
Concen: 48.41 ug/l  
RT: 12.961 min Scan# 1877  
Delta R.T. 0.000 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

Tgt Ion: 105 Resp: 778825  
Ion Ratio Lower Upper  
105 100  
120 49.4 24.2 72.6

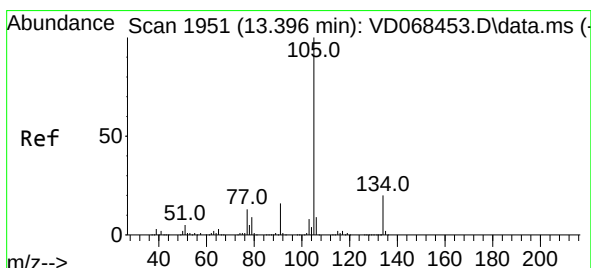
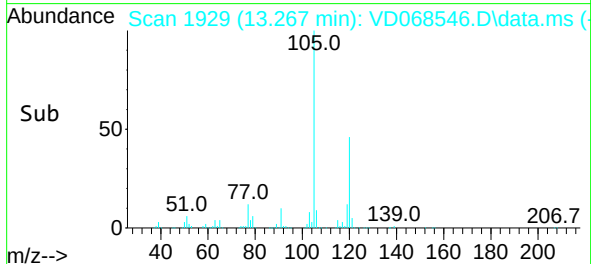
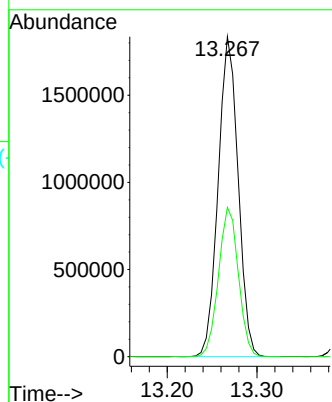
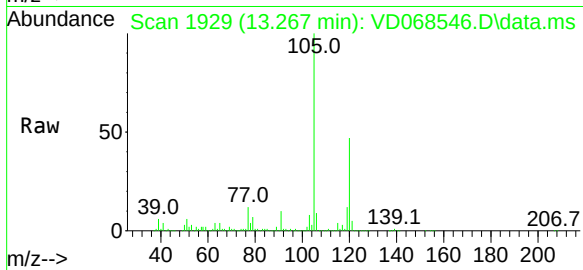




#84  
1,2,4-Trimethylbenzene  
Concen: 175.74 ug/l  
RT: 13.267 min Scan# 1929  
Delta R.T. 0.000 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

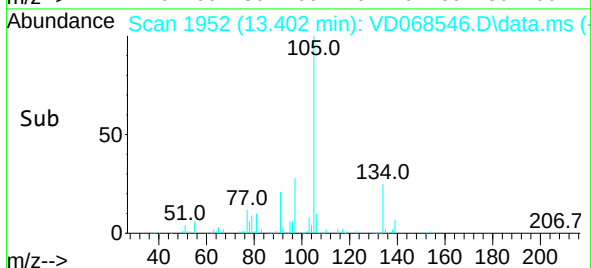
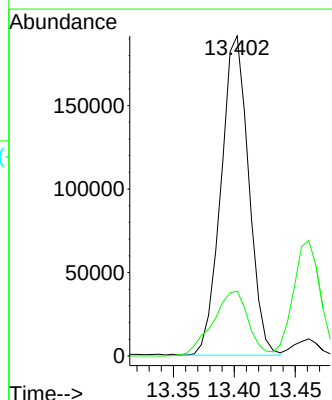
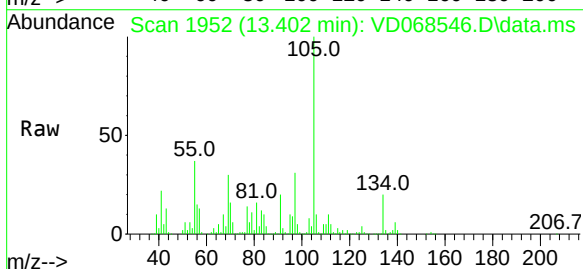
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-02-030521

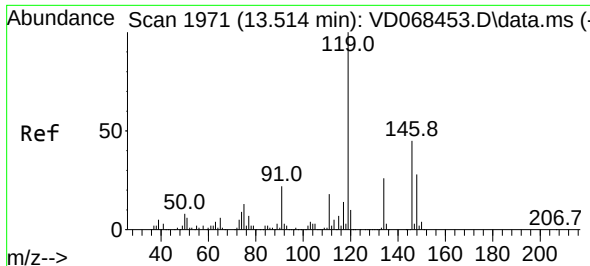
Tgt Ion:105 Resp: 2831639  
Ion Ratio Lower Upper  
105 100  
120 46.6 22.4 67.0



#85  
sec-Butylbenzene  
Concen: 15.63 ug/l  
RT: 13.402 min Scan# 1952  
Delta R.T. 0.006 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

Tgt Ion:105 Resp: 302353  
Ion Ratio Lower Upper  
105 100  
134 26.3 10.3 30.9

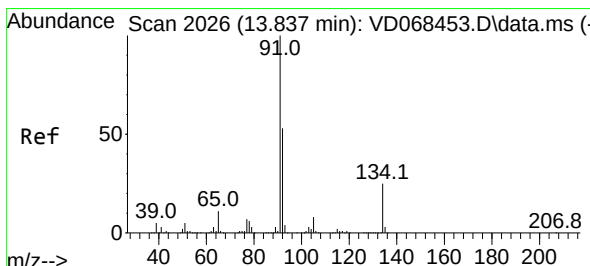
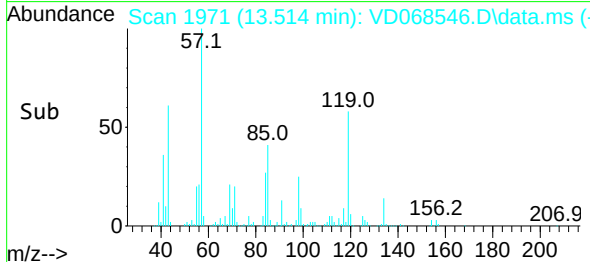
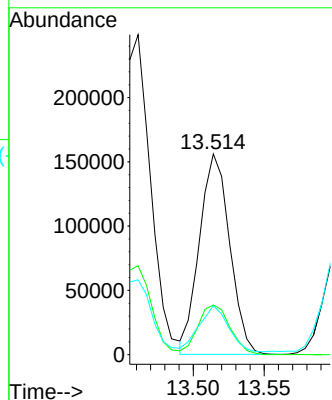
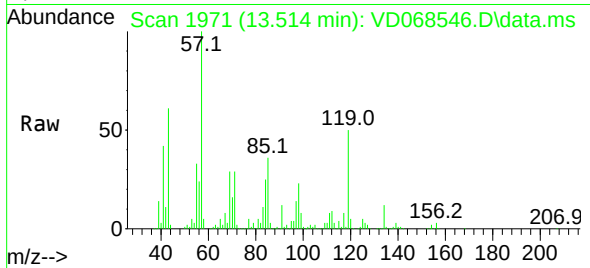




#86  
p-Isopropyltoluene  
Concen: 13.16 ug/l  
RT: 13.514 min Scan# 1971  
Delta R.T. 0.000 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

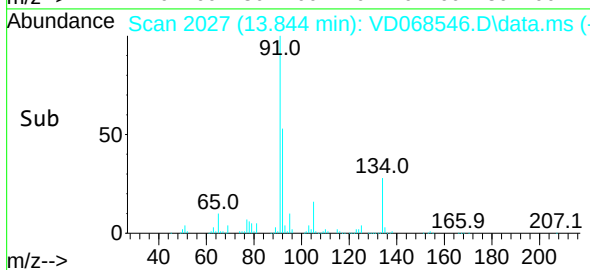
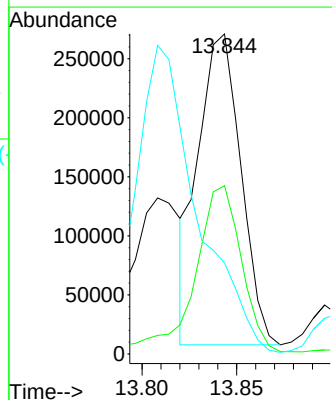
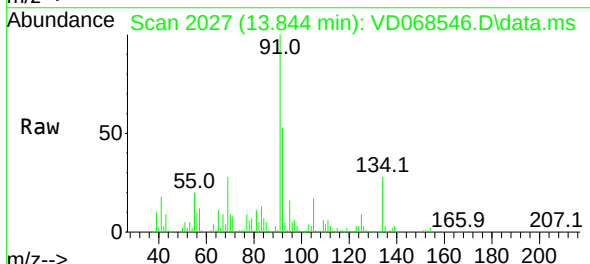
Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-02-030521

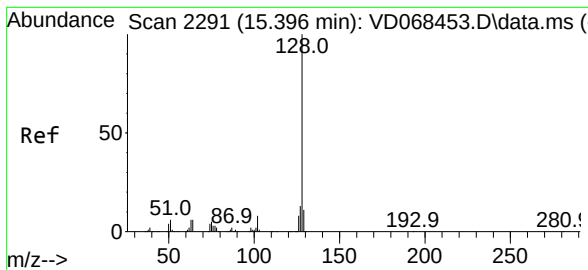
Tgt Ion:119 Resp: 231184  
Ion Ratio Lower Upper  
119 100  
134 26.3 12.9 38.7  
91 22.0 11.7 35.0



#89  
n-Butylbenzene  
Concen: 24.37 ug/l  
RT: 13.844 min Scan# 2027  
Delta R.T. 0.006 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

Tgt Ion: 91 Resp: 412851  
Ion Ratio Lower Upper  
91 100  
92 57.1 27.2 81.6  
134 0.0 13.9 41.7#





#95  
Naphthalene  
Concen: 32.75 ug/l  
RT: 15.402 min Scan# 2292  
Delta R.T. 0.006 min  
Lab File: VD068546.D  
Acq: 05 Mar 2021 16:25

Instrument :  
MSVOA\_D  
ClientSampleId :  
HR-02-030521

Tgt Ion:128 Resp: 339871  
Ion Ratio Lower Upper  
128 100  
127 10.5 10.2 15.2  
129 7.8 8.8 13.2#

