

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092920\  
 Data File : VD066960.D  
 Acq On : 30 Sep 2020 02:23  
 Operator : VA/SY  
 Sample : L4179-07  
 Misc : 5.01G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 B-11(0-1)

Quant Time: Sep 30 05:00:59 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 422265   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 712959   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 780563   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 382436   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |       |     |          |        |         |      |
|---------------------------|-------|-----|----------|--------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33  | 65  | 190102   | 46.00  | ug/l    | 0.00 |
| Spiked Amount             |       |     |          | 50.000 |         |      |
|                           |       |     | Recovery | =      | 92.00%  |      |
| 35) Dibromofluoromethane  | 7.92  | 113 | 215696   | 47.55  | ug/l    | 0.00 |
| Spiked Amount             |       |     |          | 50.000 |         |      |
|                           |       |     | Recovery | =      | 95.10%  |      |
| 50) Toluene-d8            | 10.34 | 98  | 886638   | 57.37  | ug/l    | 0.00 |
| Spiked Amount             |       |     |          | 50.000 |         |      |
|                           |       |     | Recovery | =      | 114.74% |      |
| 62) 4-Bromofluorobenzene  | 12.63 | 95  | 359330   | 67.92  | ug/l    | 0.00 |
| Spiked Amount             |       |     |          | 50.000 |         |      |
|                           |       |     | Recovery | =      | 135.84% |      |

## Target Compounds

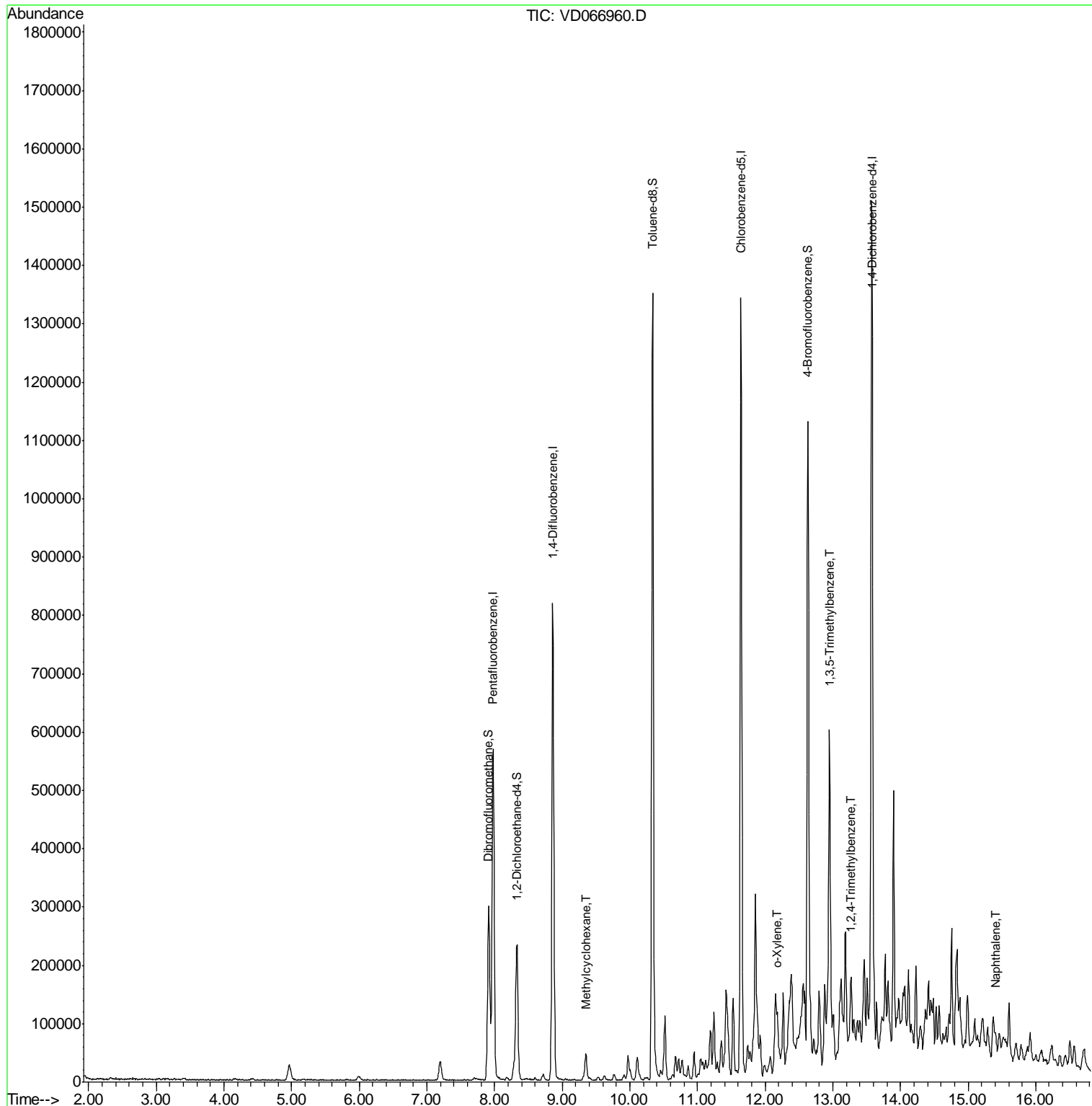
|                            |       |     |       |       | Qvalue    |
|----------------------------|-------|-----|-------|-------|-----------|
| 39) Methylcyclohexane      | 9.35  | 83  | 17166 | 2.114 | ug/l 97   |
| 69) o-Xylene               | 12.18 | 106 | 16801 | 1.720 | ug/l 99   |
| 80) 1,3,5-Trimethylbenzene | 12.96 | 105 | 69548 | 2.967 | ug/l 98   |
| 84) 1,2,4-Trimethylbenzene | 13.27 | 105 | 68560 | 2.949 | ug/l 99   |
| 95) Naphthalene            | 15.41 | 128 | 32586 | 2.792 | ug/l # 90 |

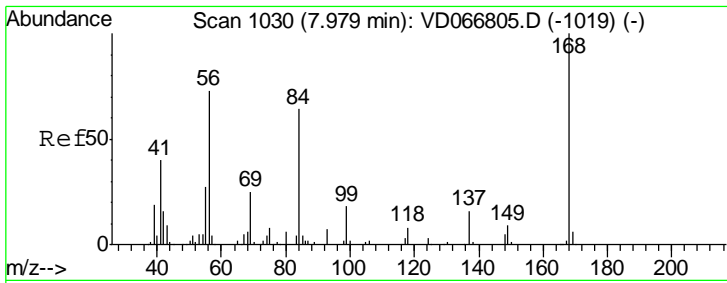
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :  
 MSVOA\_D  
 ClientSampled :  
 B-11(0-1)

Quant Time: Sep 30 05:00:59 2020  
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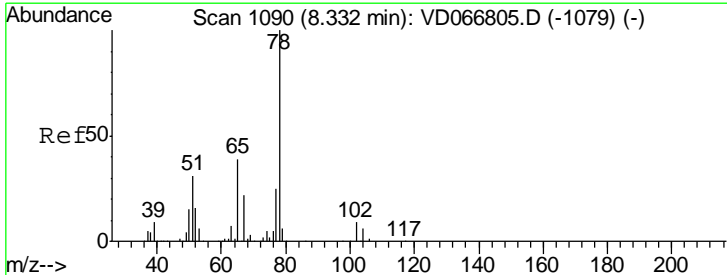
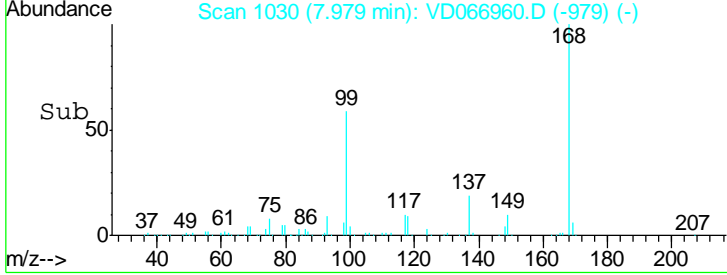
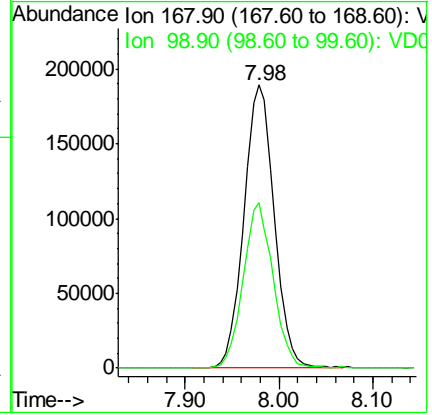
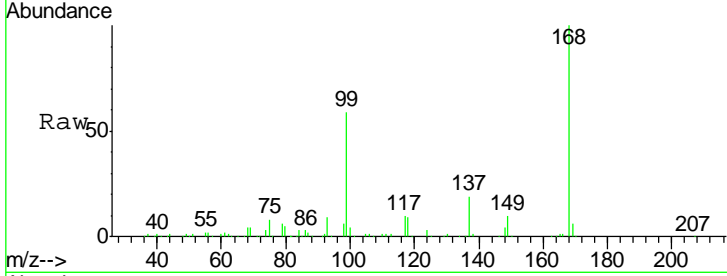




#1  
 Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.00 min  
 Lab File: VD066960.D  
 Acq: 30 Sep 2020 02:23

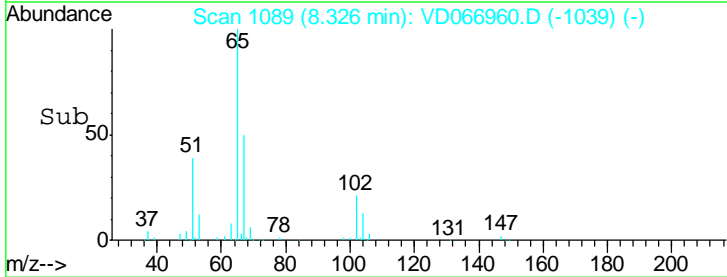
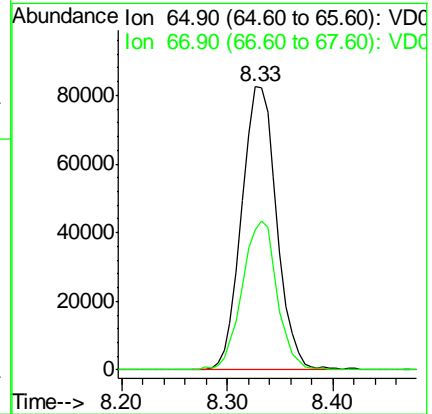
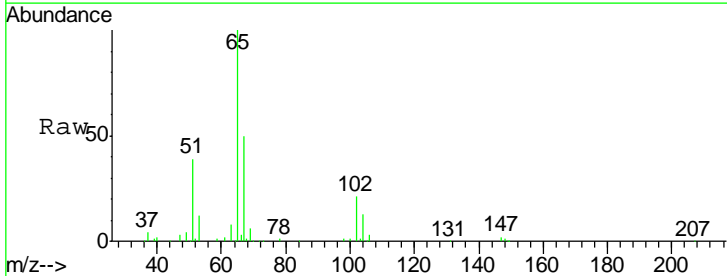
Instrument : MSVOA\_D  
 ClientSampled : B-11(0-1)

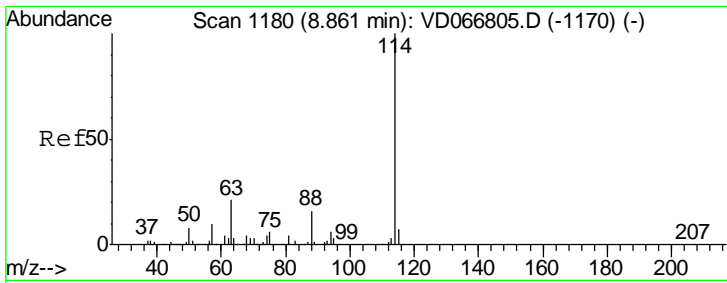
Tgt Ion: 168 Resp: 422265  
 Ion Ratio Lower Upper  
 168 100  
 99 58.6 46.6 69.8



#33  
 1,2-Dichloroethane-d4  
 Concen: 45.997 ug/l  
 RT: 8.33 min Scan# 1089  
 Delta R.T. -0.01 min  
 Lab File: VD066960.D  
 Acq: 30 Sep 2020 02:23

Tgt Ion: 65 Resp: 190102  
 Ion Ratio Lower Upper  
 65 100  
 67 52.5 0.0 107.2

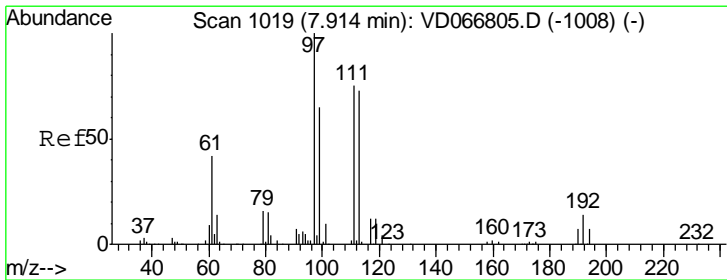
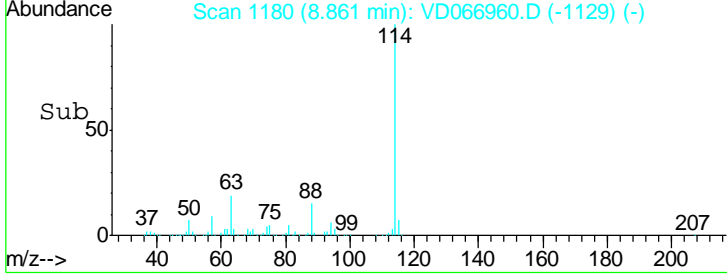
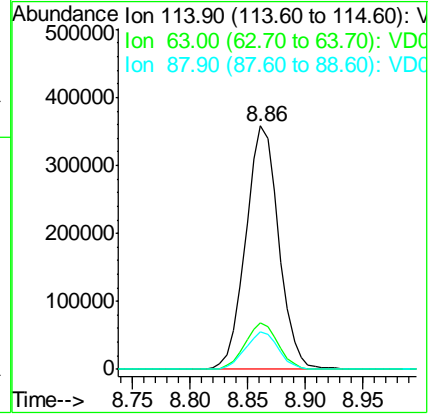
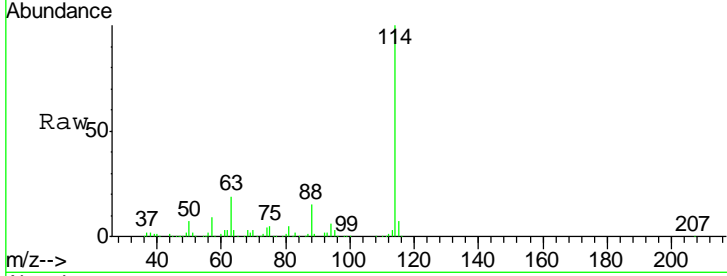




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. -0.00 min  
 Lab File: VD066960.D  
 Acq: 30 Sep 2020 02:23

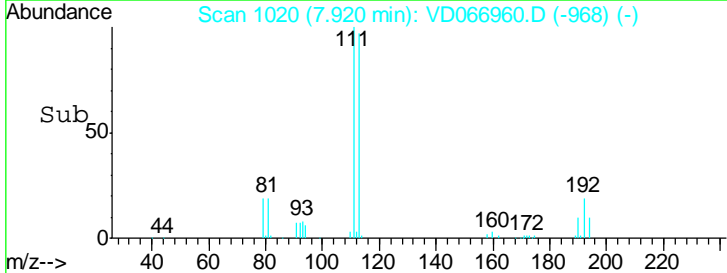
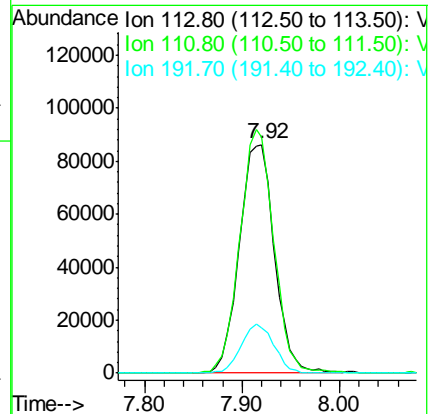
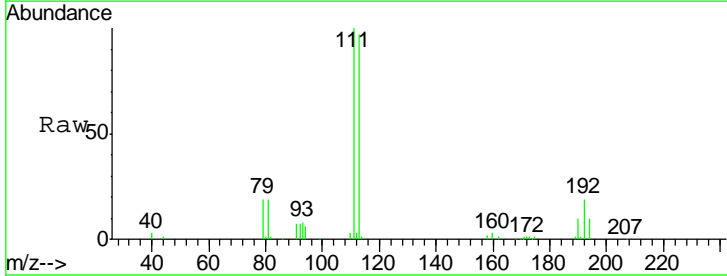
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 B-11(0-1)

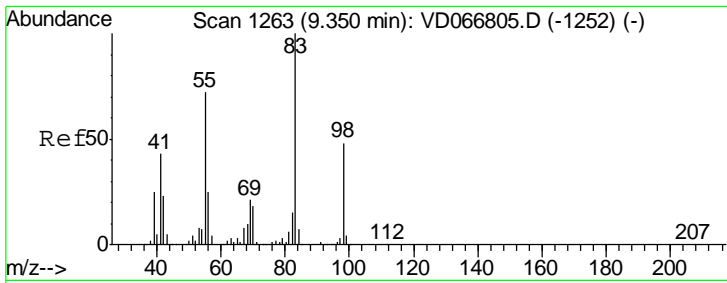
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 114     | 100  |       |       |
| 63      | 19.2 | 0.0   | 42.6  |
| 88      | 15.3 | 0.0   | 32.6  |



#35  
 Dibromofluoromethane  
 Concen: 47.554 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.01 min  
 Lab File: VD066960.D  
 Acq: 30 Sep 2020 02:23

| Tgt Ion | Resp  | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.1 | 81.8  | 122.8 |
| 192     | 19.9  | 14.4  | 21.6  |

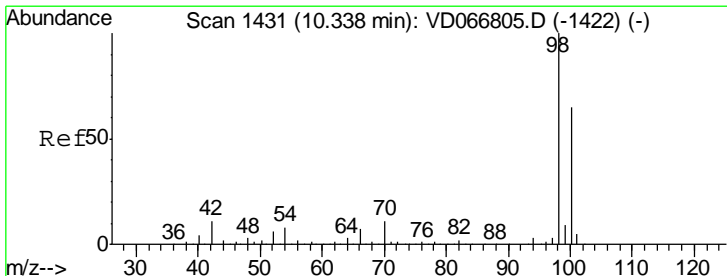
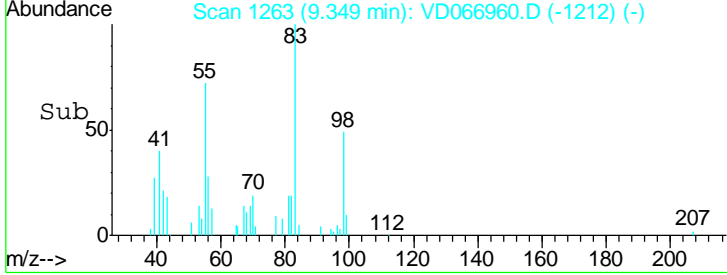
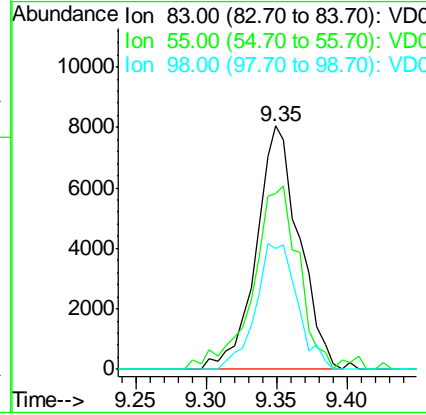
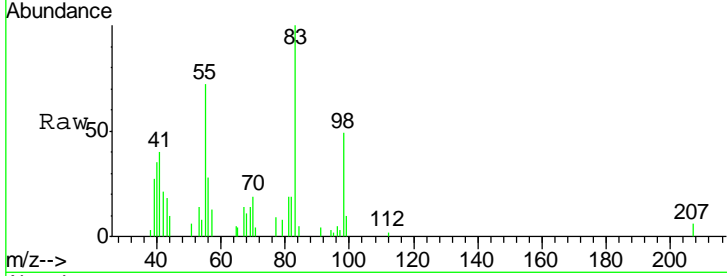




#39  
 Methylcyclohexane  
 Concen: 2.114 ug/l  
 RT: 9.35 min Scan# 1263  
 Delta R.T. -0.00 min  
 Lab File: VD066960.D  
 Acq: 30 Sep 2020 02:23

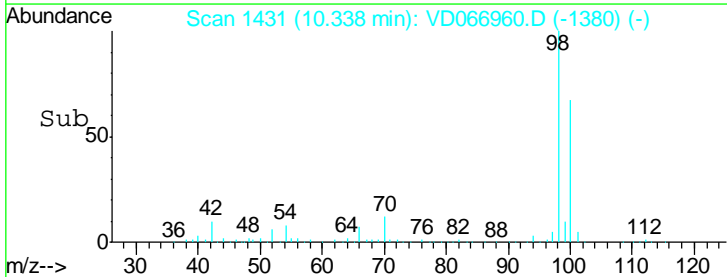
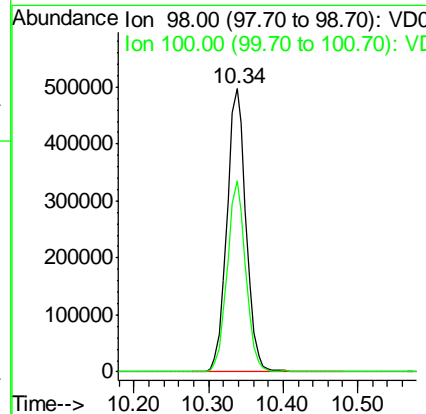
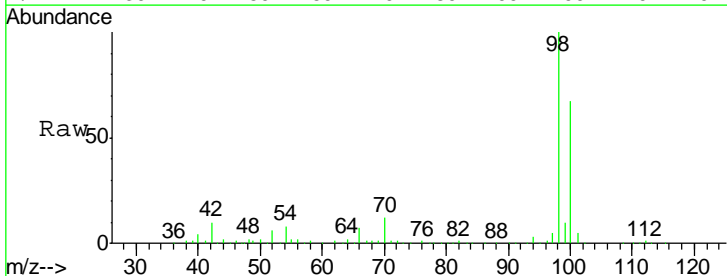
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 B-11(0-1)

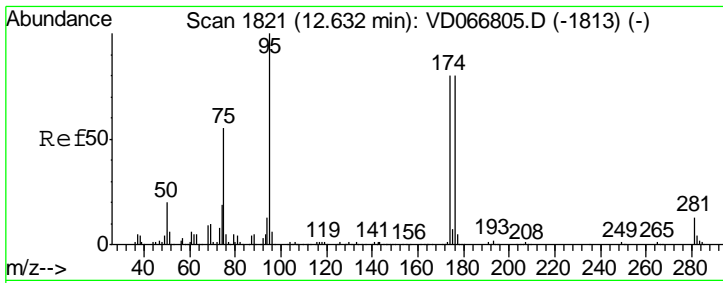
| Tgt Ion | Resp  | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 17166 |       |       |
| 55      | 68.6  | 57.7  | 86.5  |
| 98      | 49.4  | 38.4  | 57.6  |



#50  
 Toluene-d8  
 Concen: 57.371 ug/l  
 RT: 10.34 min Scan# 1431  
 Delta R.T. -0.00 min  
 Lab File: VD066960.D  
 Acq: 30 Sep 2020 02:23

| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 98      | 886638 |       |       |
| 100     | 65.6   | 52.2  | 78.2  |

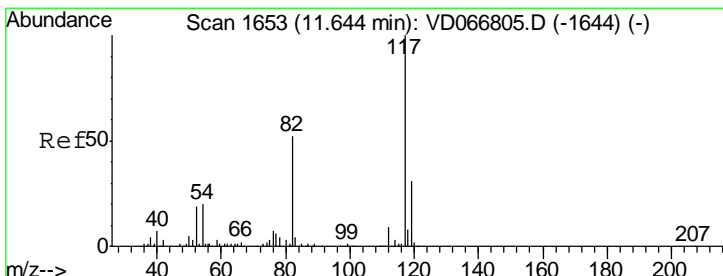
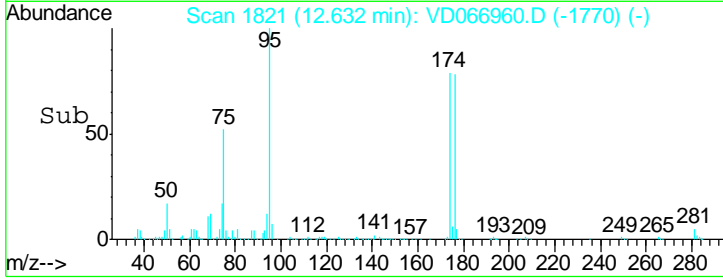
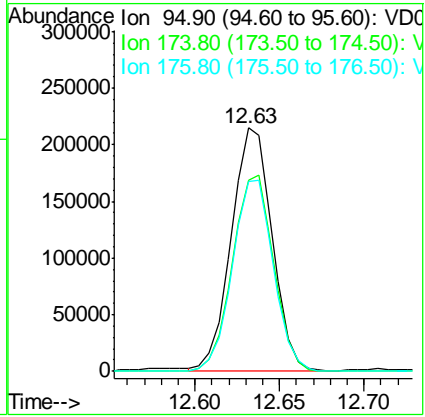
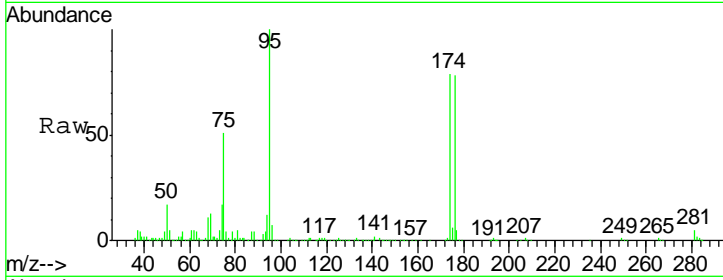




#62  
 4-Bromofluorobenzene  
 Concen: 67.919 ug/l  
 RT: 12.63 min Scan# 1821  
 Delta R.T. -0.00 min  
 Lab File: VD066960.D  
 Acq: 30 Sep 2020 02:23

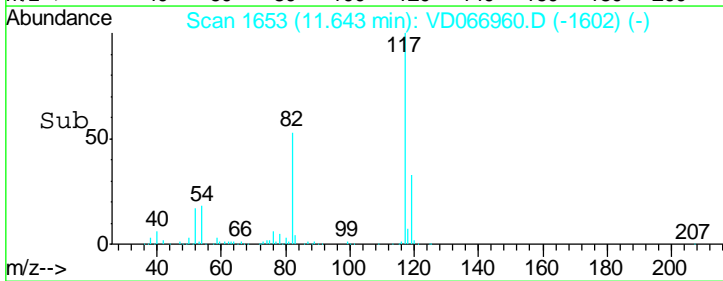
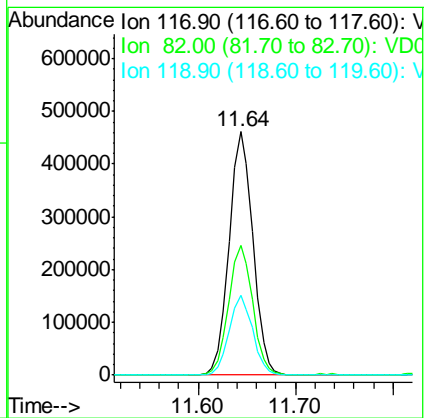
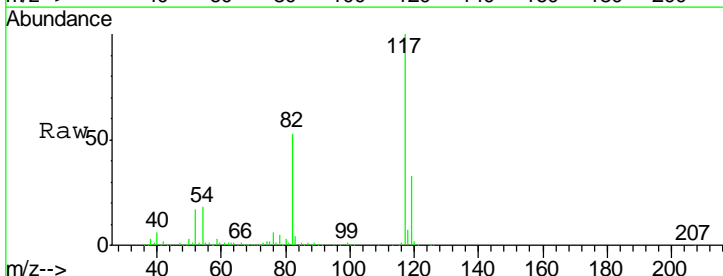
Instrument : MSVOA\_D  
 ClientSampled : B-11(0-1)

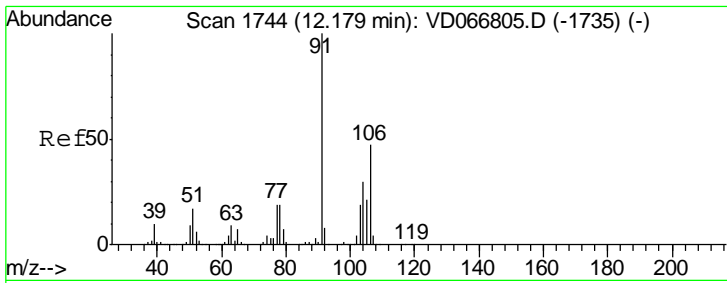
| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 95      | 100  |       |       |
| 174     | 81.4 | 0.0   | 159.8 |
| 176     | 79.1 | 0.0   | 154.4 |



#63  
 Chlorobenzene-d5  
 Concen: 50.000 ug/l  
 RT: 11.64 min Scan# 1653  
 Delta R.T. -0.00 min  
 Lab File: VD066960.D  
 Acq: 30 Sep 2020 02:23

| Tgt Ion | Resp | Lower | Upper |
|---------|------|-------|-------|
| 117     | 100  |       |       |
| 82      | 53.1 | 41.8  | 62.6  |
| 119     | 32.8 | 24.6  | 37.0  |

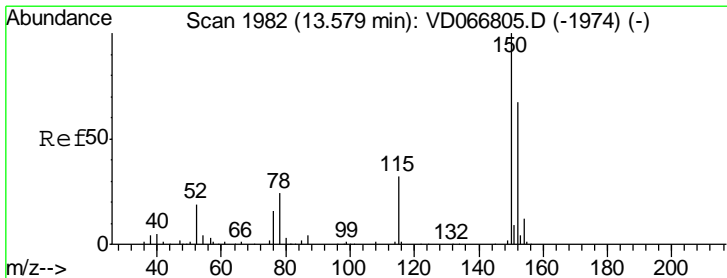
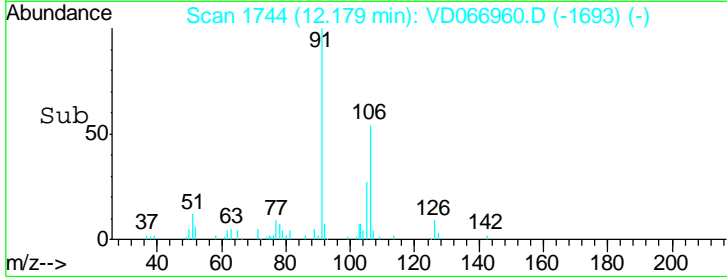
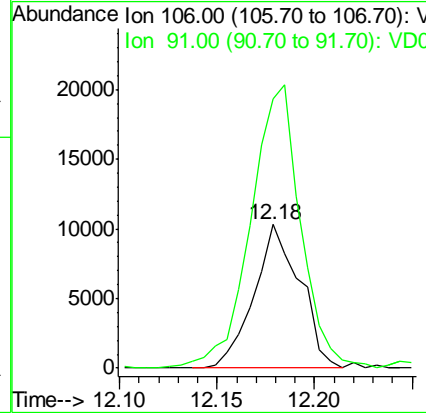
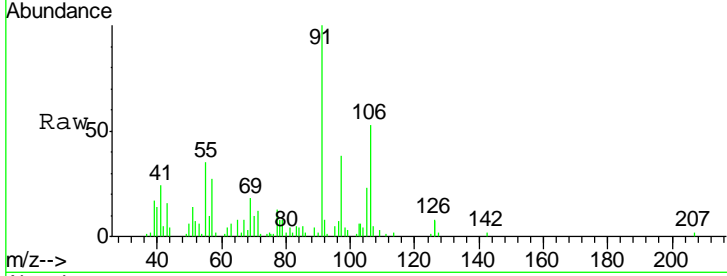




#69  
 o-Xylene  
 Concen: 1.720 ug/l  
 RT: 12.18 min Scan# 1744  
 Delta R.T. -0.00 min  
 Lab File: VD066960.D  
 Acq: 30 Sep 2020 02:23

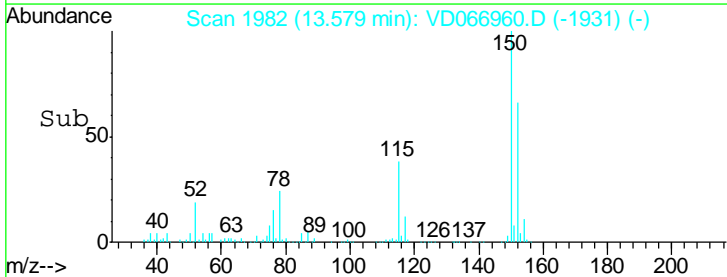
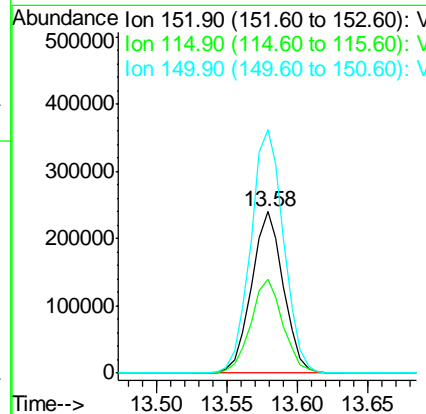
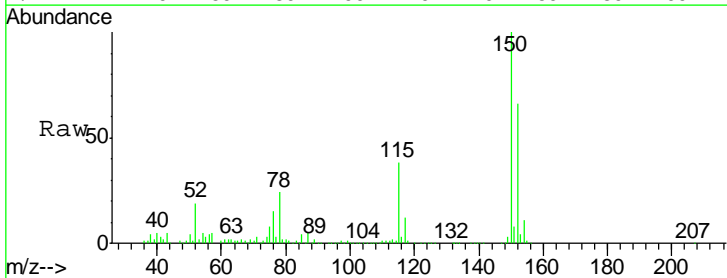
Instrument : MSVOA\_D  
 ClientSampled : B-11(0-1)

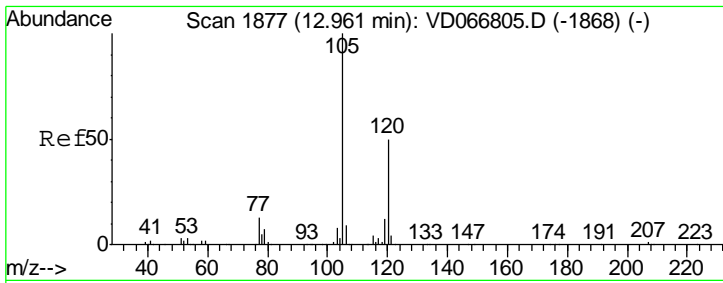
| Tgt Ion | Resp  | Lower | Upper |
|---------|-------|-------|-------|
| 106     | 16801 |       |       |
| 91      | 214.8 | 106.3 | 318.8 |



#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.58 min Scan# 1982  
 Delta R.T. -0.00 min  
 Lab File: VD066960.D  
 Acq: 30 Sep 2020 02:23

| Tgt Ion | Resp   | Lower | Upper |
|---------|--------|-------|-------|
| 152     | 382436 |       |       |
| 115     | 58.2   | 30.3  | 91.0  |
| 150     | 155.7  | 0.0   | 346.2 |

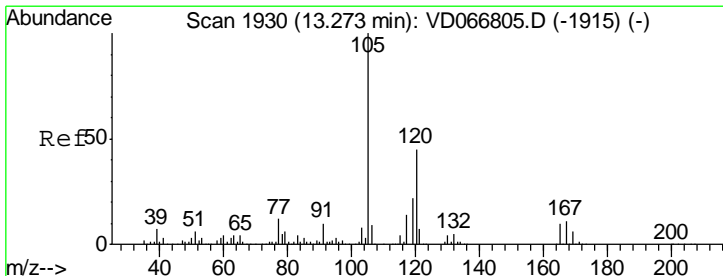
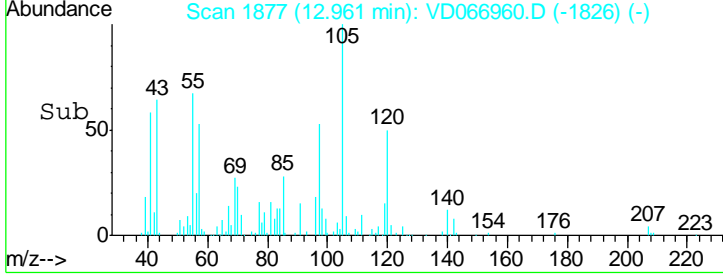
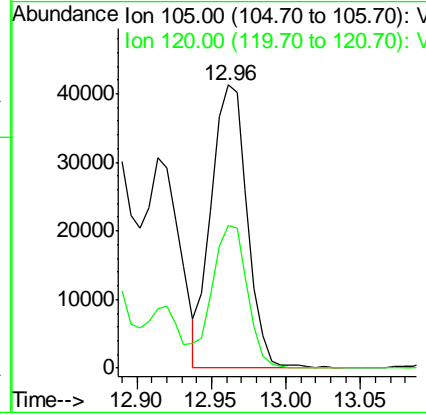
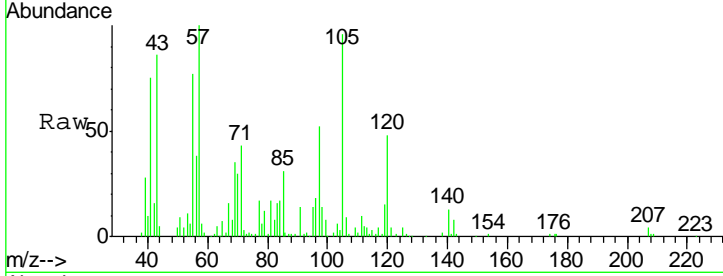




#80  
 1,3,5-Trimethylbenzene  
 Concen: 2.967 ug/l  
 RT: 12.96 min Scan# 1877  
 Delta R.T. -0.00 min  
 Lab File: VD066960.D  
 Acq: 30 Sep 2020 02:23

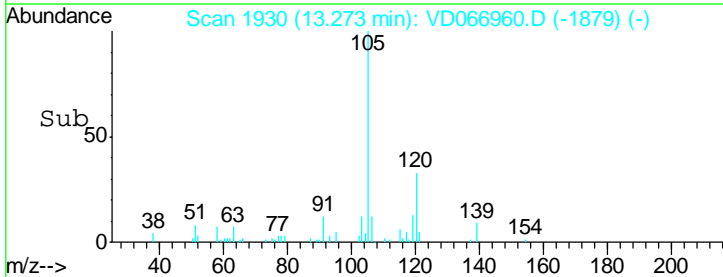
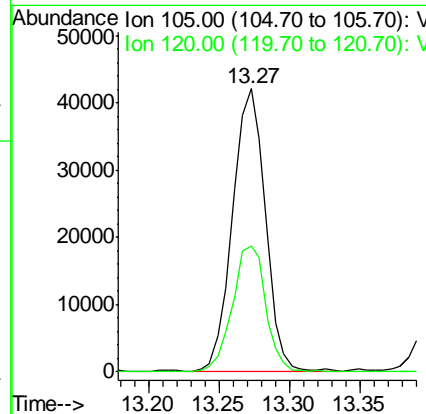
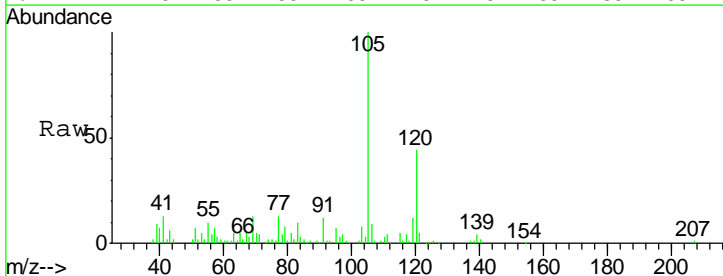
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 B-11(0-1)

Tgt Ion:105 Resp: 69548  
 Ion Ratio Lower Upper  
 105 100  
 120 50.6 24.4 73.4

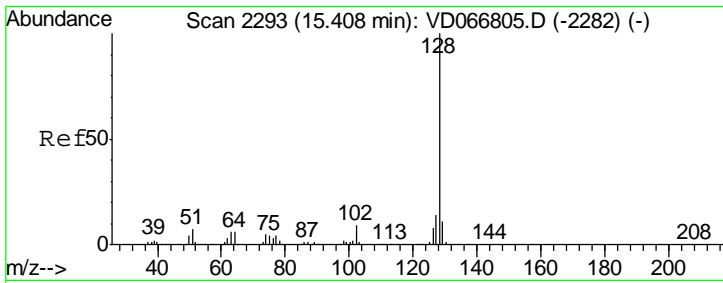


#84  
 1,2,4-Trimethylbenzene  
 Concen: 2.949 ug/l  
 RT: 13.27 min Scan# 1930  
 Delta R.T. -0.00 min  
 Lab File: VD066960.D  
 Acq: 30 Sep 2020 02:23

Tgt Ion:105 Resp: 68560  
 Ion Ratio Lower Upper  
 105 100  
 120 45.0 22.3 66.9







#95  
 Naphthalene  
 Concen: 2.792 ug/l  
 RT: 15.41 min Scan# 2293  
 Delta R.T. -0.00 min  
 Lab File: VD066960.D  
 Acq: 30 Sep 2020 02:23

Instrument : MSVOA\_D  
 ClientSampled : B-11(0-1)

| Tot Ion | 128   | Resp  | 32586 |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 128     | 100   |       |       |
| 127     | 15.9  | 10.6  | 16.0  |
| 129     | 16.8  | 8.9   | 13.3# |

