

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091420\  
 Data File : VD066686.D  
 Acq On : 14 Sep 2020 22:53  
 Operator : VA/SY  
 Sample : L3993-07  
 Misc : 7.19G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 27 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PAV-091120-DP

Quant Time: Sep 15 03:11:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D090320S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Sep 04 01:57:04 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 382119   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 701837   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 658669   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 280027   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.33   | 65  | 245308   | 53.06 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.12% |      |
| 35) Dibromofluoromethane    | 7.91   | 113 | 242133   | 51.14 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.28% |      |
| 50) Toluene-d8              | 10.34  | 98  | 860530   | 50.85 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.70% |      |
| 62) 4-Bromofluorobenzene    | 12.63  | 95  | 286042   | 50.98 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 101.96% |      |

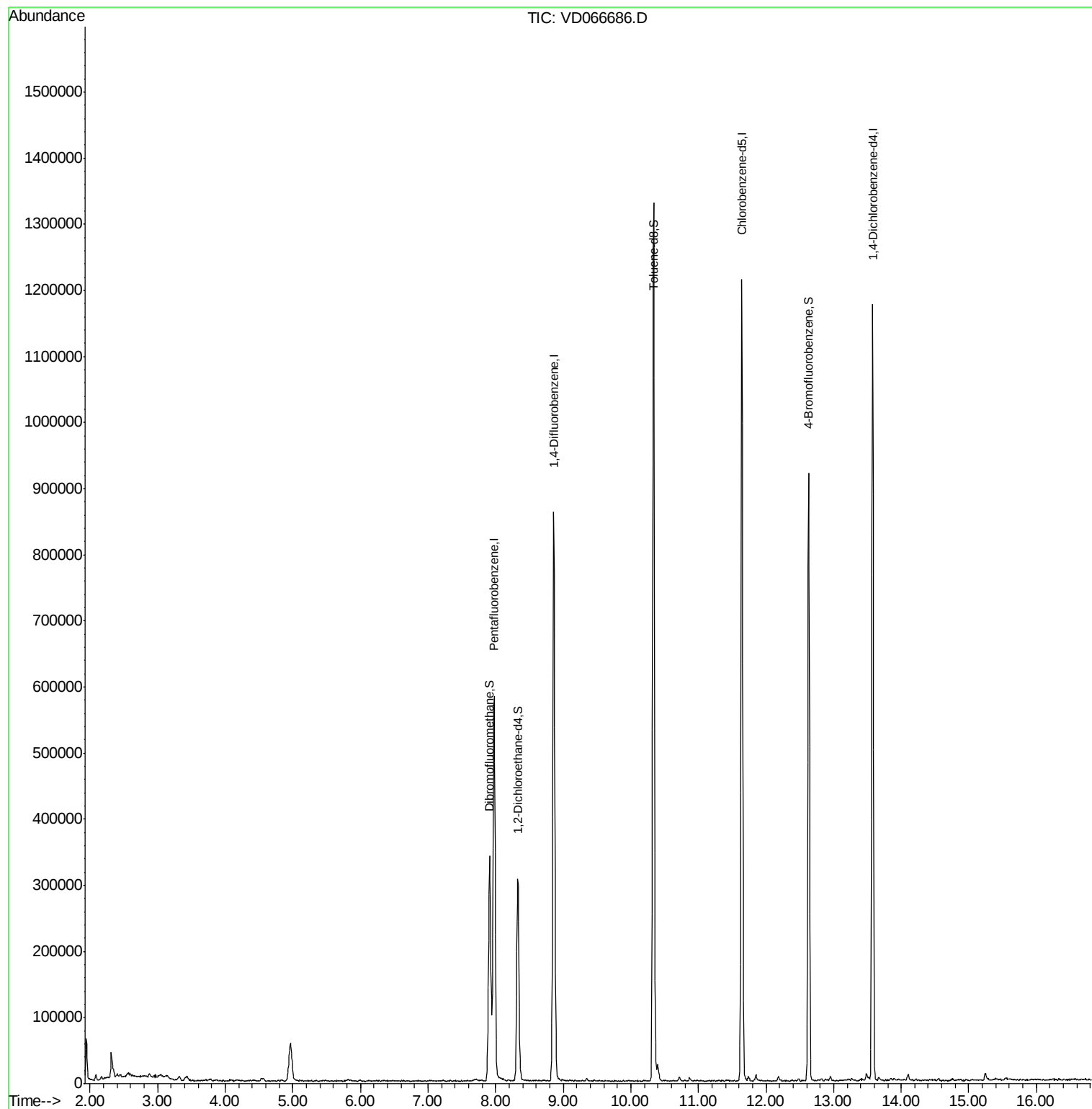
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

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Quant Title : SW846 8260  
QLast Update : Fri Sep 04 01:57:04 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD066686.D

Acq: 14 Sep 2020 22:53

Instrument :

MSVOA\_D

ClientSampleId :

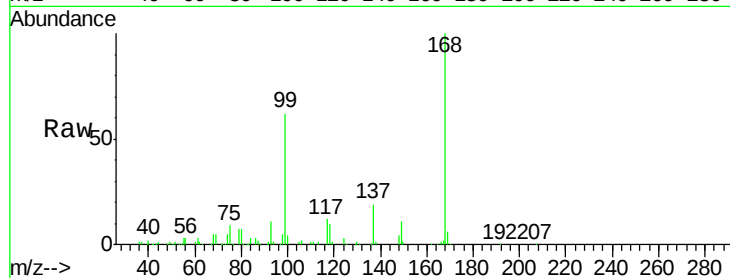
PAV-091120-DP

Tot Ion:168 Resp: 382119

Ion Ratio Lower Upper

168 100

99 61.6 50.5 75.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

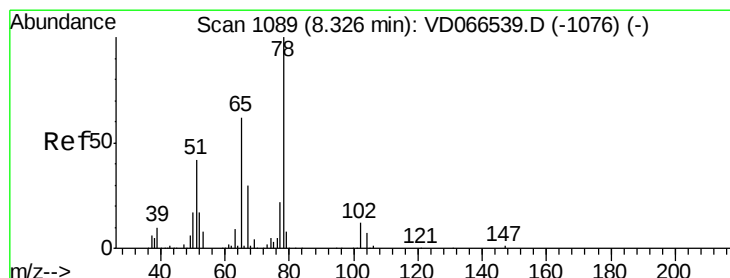
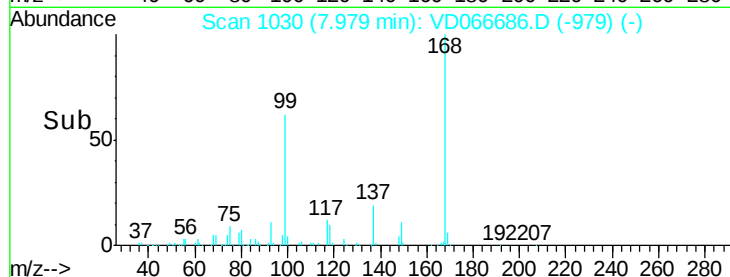
150000

100000

50000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 53.059 ug/l

RT: 8.33 min Scan# 1089

Delta R.T. 0.00 min

Lab File: VD066686.D

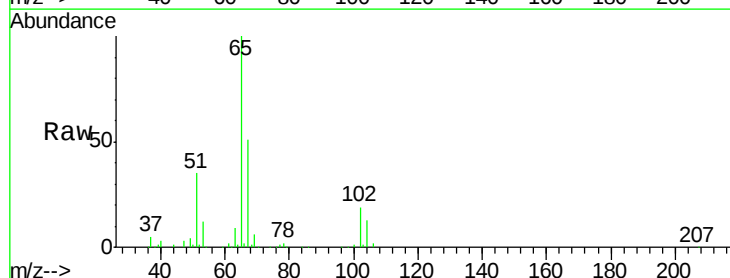
Acq: 14 Sep 2020 22:53

Tgt Ion: 65 Resp: 245308

Ion Ratio Lower Upper

65 100

67 49.8 0.0 102.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.33

120000

100000

80000

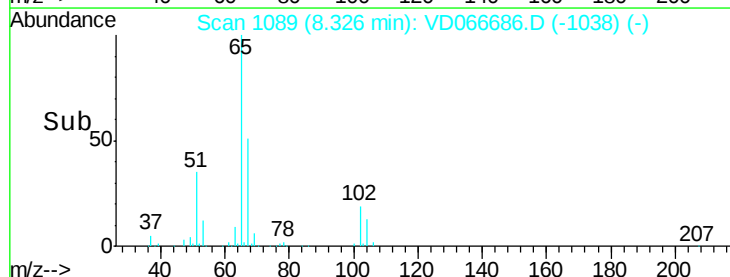
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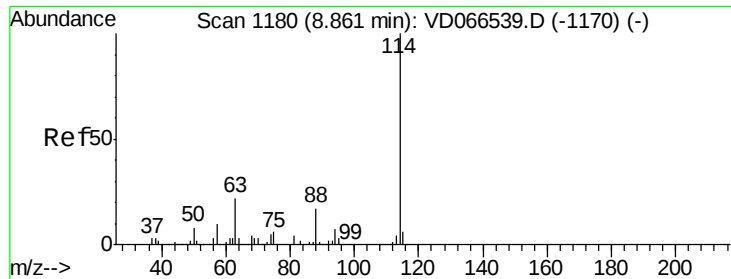
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Time-->

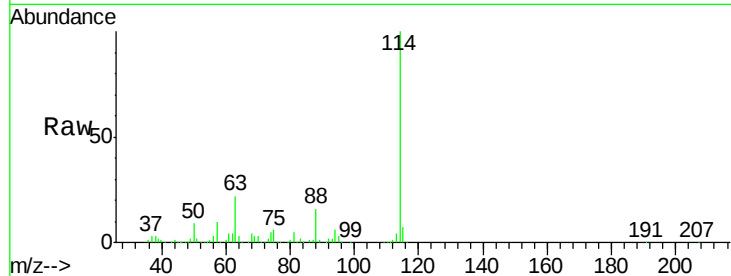




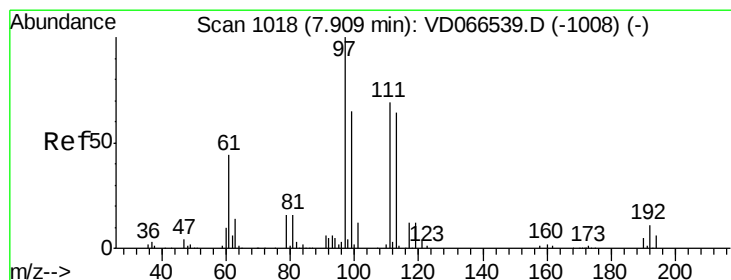
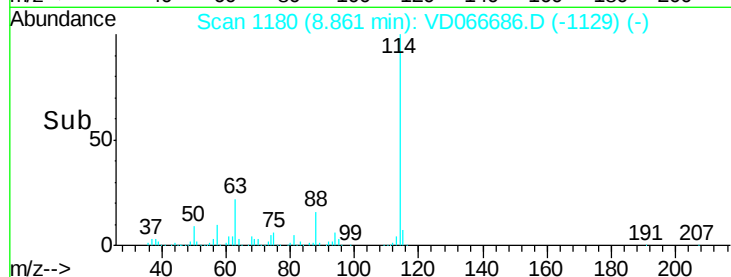
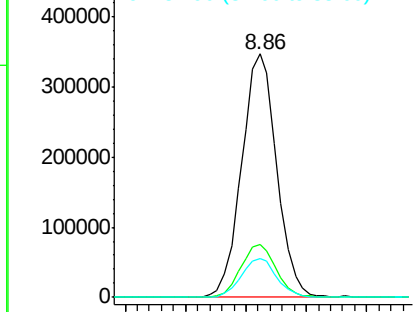
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. 0.00 min  
 Lab File: VD066686.D  
 Acq: 14 Sep 2020 22:53

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PAV-091120-DP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 22.0  | 0.0   | 43.2  |
| 88      | 16.2  | 0.0   | 33.2  |

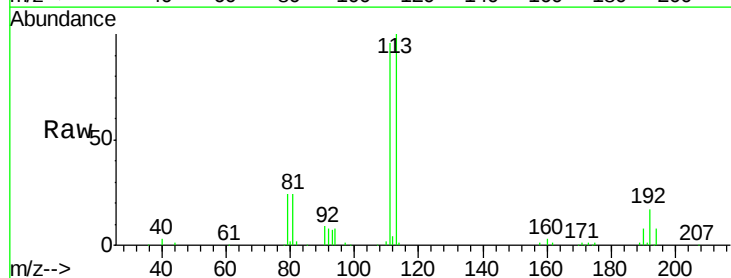


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

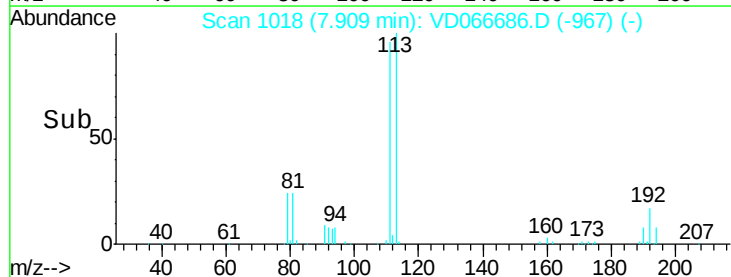
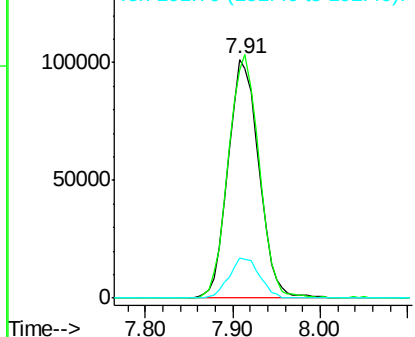


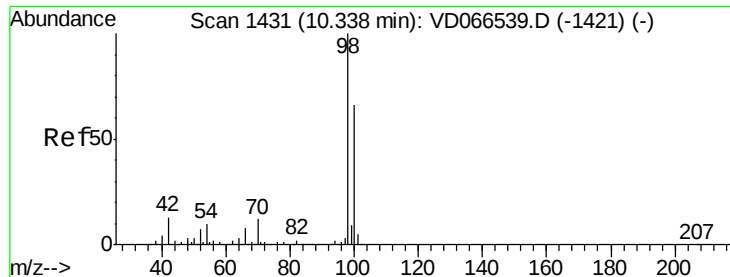
#35  
 Dibromofluoromethane  
 Concen: 51.141 ug/l  
 RT: 7.91 min Scan# 1018  
 Delta R.T. 0.00 min  
 Lab File: VD066686.D  
 Acq: 14 Sep 2020 22:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.7 | 83.2  | 124.8 |
| 192     | 16.7  | 13.7  | 20.5  |



Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

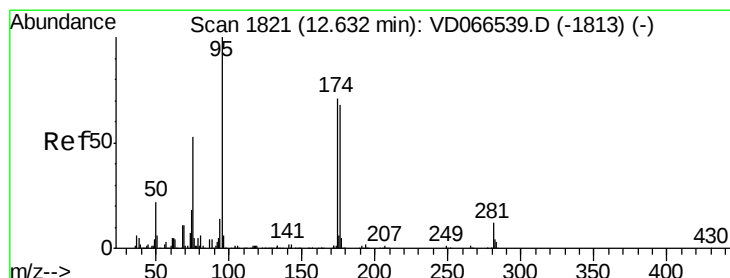
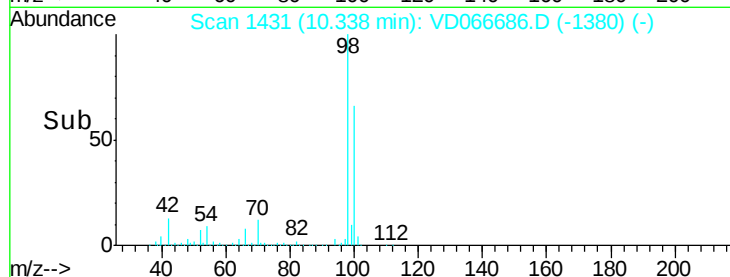
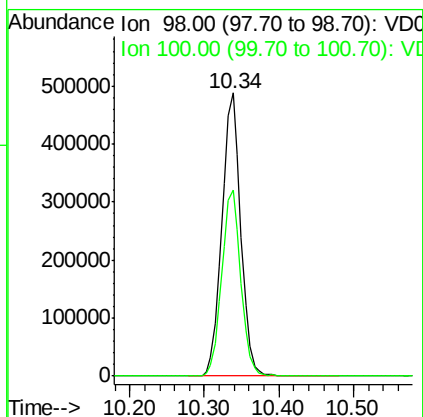
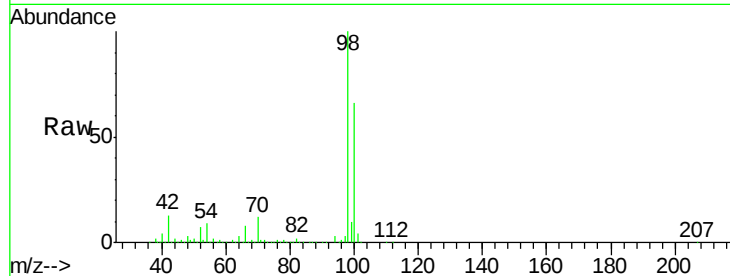




#50  
Toluene-d8  
Concen: 50.852 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VD066686.D  
Acq: 14 Sep 2020 22:53

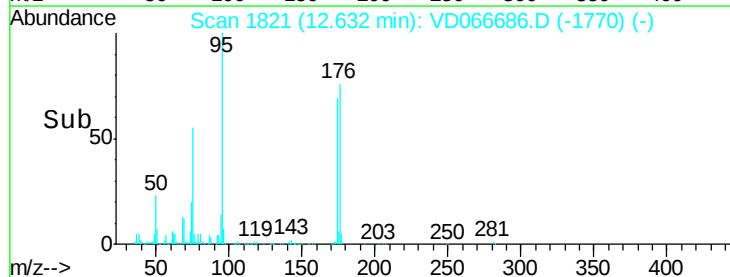
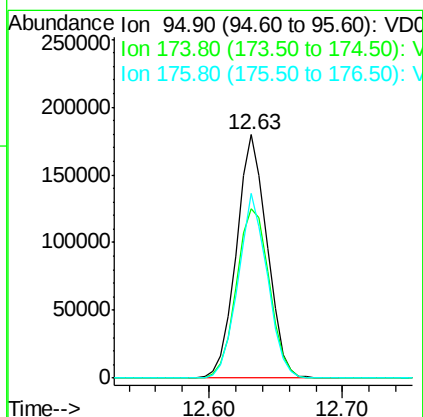
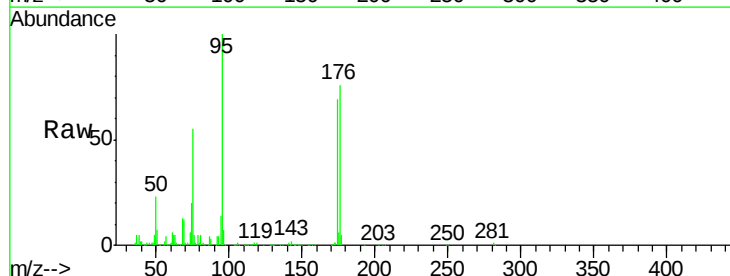
Instrument :  
MSVOA\_D  
ClientSampleId :  
PAV-091120-DP

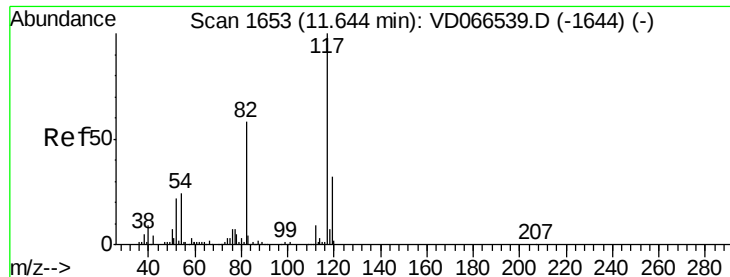
Tot Ion: 98 Resp: 860530  
Ion Ratio Lower Upper  
98 100  
100 66.3 52.9 79.3



#62  
4-Bromofluorobenzene  
Concen: 50.976 ug/l  
RT: 12.63 min Scan# 1821  
Delta R.T. 0.00 min  
Lab File: VD066686.D  
Acq: 14 Sep 2020 22:53

Tgt Ion: 95 Resp: 286042  
Ion Ratio Lower Upper  
95 100  
174 74.4 0.0 155.8  
176 72.2 0.0 148.6

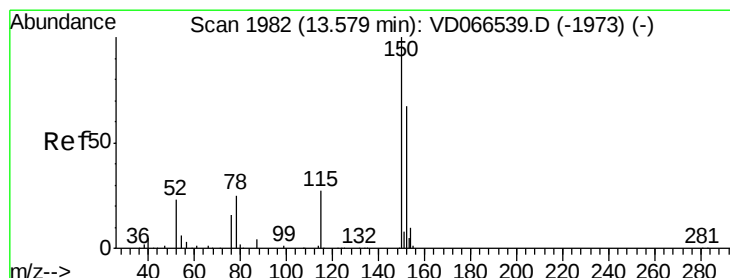
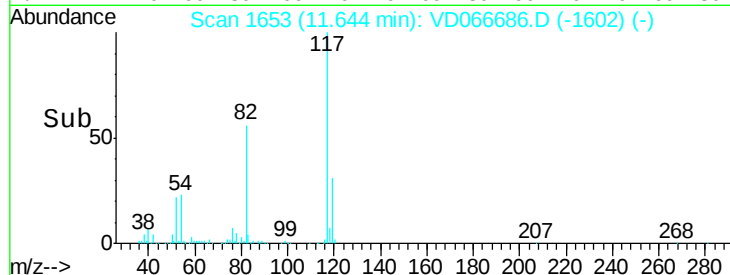
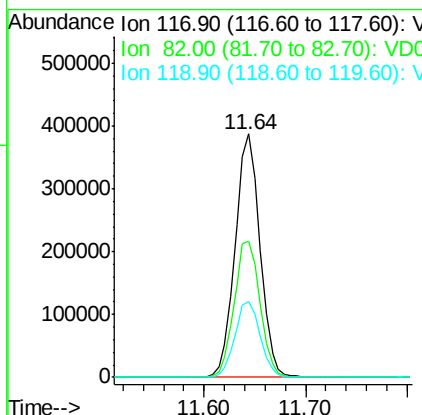
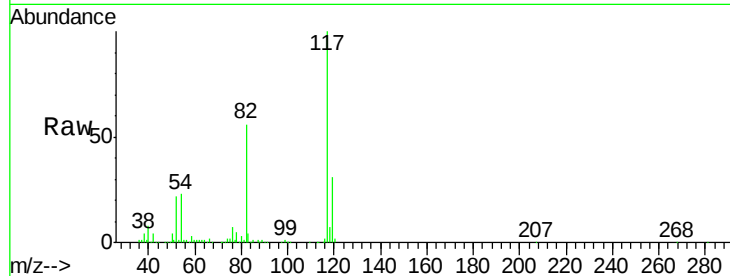




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD066686.D  
Acq: 14 Sep 2020 22:53

Instrument :  
MSVOA\_D  
ClientSampleId :  
PAV-091120-DP

Tot Ion:117 Resp: 658669  
Ion Ratio Lower Upper  
117 100  
82 56.0 46.2 69.2  
119 31.1 25.8 38.8



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD066686.D  
Acq: 14 Sep 2020 22:53

Tgt Ion:152 Resp: 280027  
Ion Ratio Lower Upper  
152 100  
115 62.9 30.4 91.2  
150 158.6 0.0 345.8

