

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD091620\  
 Data File : VD066731.D  
 Acq On : 16 Sep 2020 20:33  
 Operator : VA/SY  
 Sample : L4038-05  
 Misc : 5.01G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PAV-091620-DP

Quant Time: Sep 17 01:38:07 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Sep 15 16:35:37 2020  
 Response via : Initial Calibration

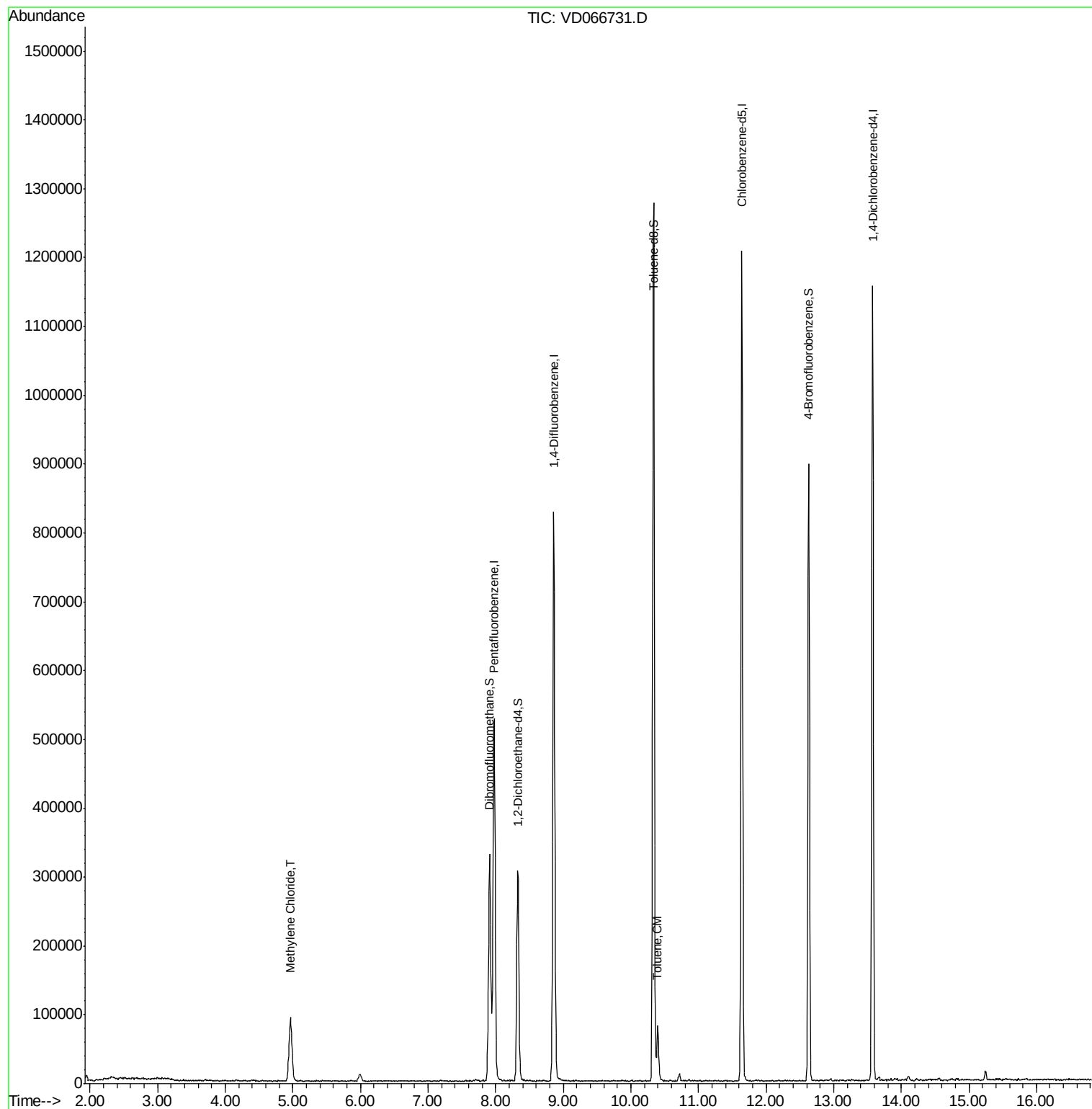
| Internal Standards          | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 1) Pentafluorobenzene       | 7.98  | 168  | 366632   | 50.00 | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.86  | 114  | 684044   | 50.00 | ug/l    | 0.00     |
| 63) Chlorobenzene-d5        | 11.64 | 117  | 662616   | 50.00 | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.58 | 152  | 284759   | 50.00 | ug/l    | 0.00     |
| System Monitoring Compounds |       |      |          |       |         |          |
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 245296   | 62.71 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 125.42% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 235820   | 56.23 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 112.46% |          |
| 50) Toluene-d8              | 10.34 | 98   | 841811   | 56.34 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 112.68% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 280431   | 54.37 | ug/l    | 0.00     |
| Spiked Amount 50.000        |       |      | Recovery | =     | 108.74% |          |
| Target Compounds            |       |      |          |       |         |          |
| 20) Methylene Chloride      | 4.96  | 84   | 65048    | 9.181 | ug/l    | 100      |
| 52) Toluene                 | 10.40 | 92   | 31065    | 2.549 | ug/l    | 91       |

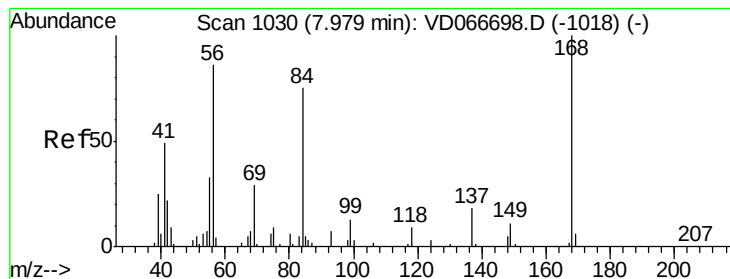
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_D  
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PAV-091620-DP

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D091520S.M  
Quant Title : SW846 8260  
QLast Update : Tue Sep 15 16:35:37 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: VD066731.D

Acq: 16 Sep 2020 20:33

Instrument :

MSVOA\_D

ClientSampleId :

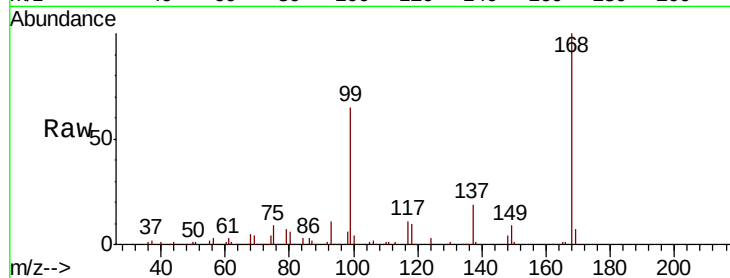
PAV-091620-DP

Tot Ion:168 Resp: 366632

Ion Ratio Lower Upper

168 100

99 65.2 54.4 81.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

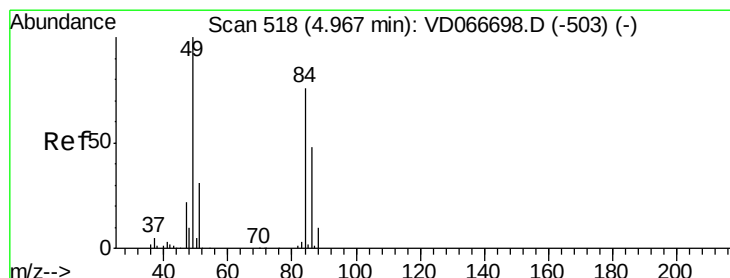
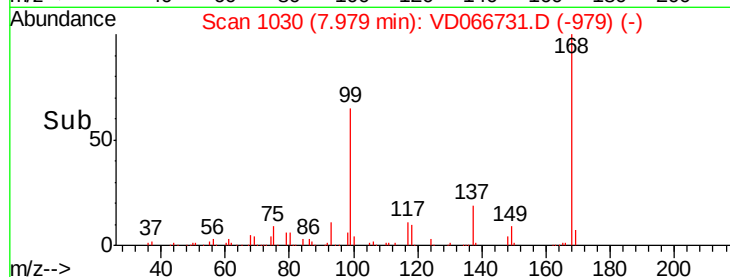
150000

100000

50000

0

Time--> 7.85 7.90 7.95 8.00 8.05



#20

Methylene Chloride

Concen: 9.181 ug/l

RT: 4.96 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD066731.D

Acq: 16 Sep 2020 20:33

Tgt Ion: 84 Resp: 65048

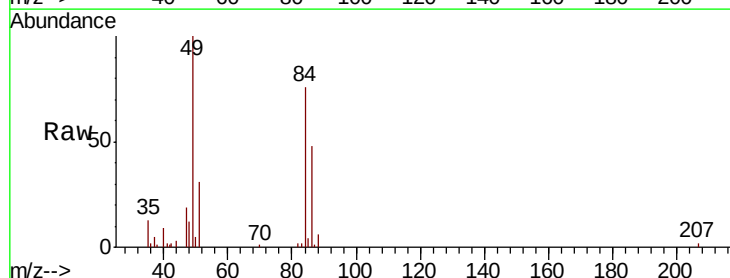
Ion Ratio Lower Upper

84 100

49 131.0 105.0 157.6

51 40.6 32.2 48.4

86 62.3 50.4 75.6



Abundance Ion 83.90 (83.60 to 84.60): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC

40000

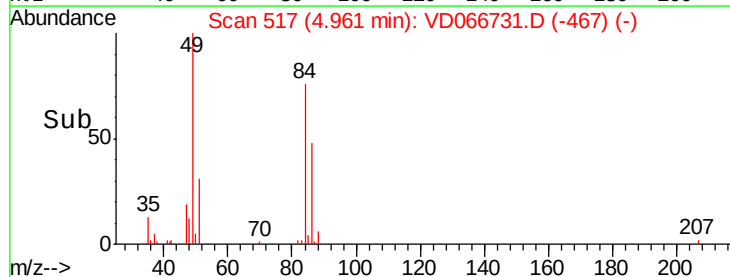
30000

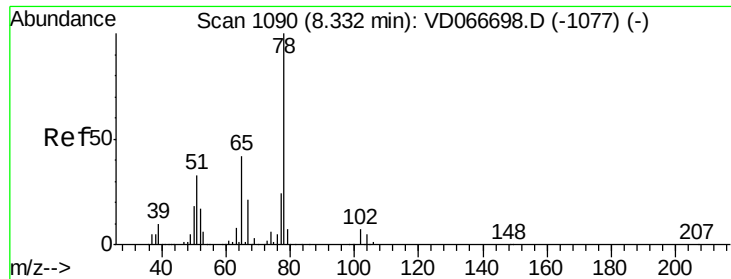
20000

10000

0

Time--> 4.90 5.00 5.10

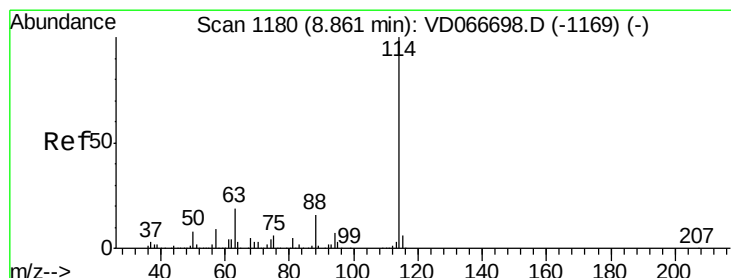
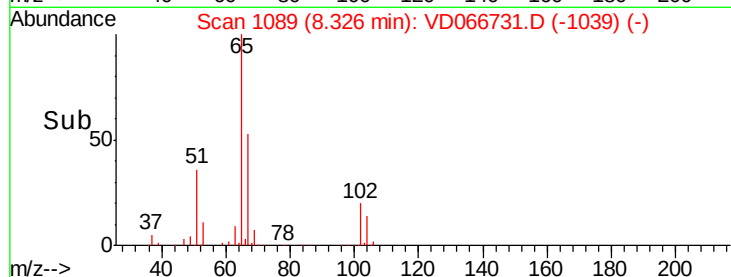
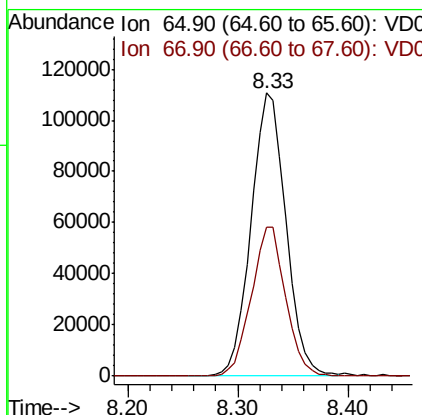
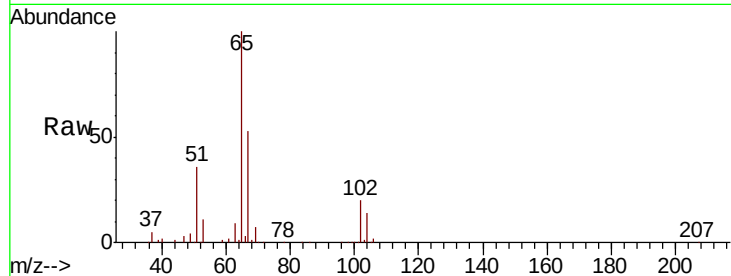




#33  
 1,2-Dichloroethane-d4  
 Concen: 62.708 ug/l  
 RT: 8.33 min Scan# 1089  
 Delta R.T. -0.01 min  
 Lab File: VD066731.D  
 Acq: 16 Sep 2020 20:33

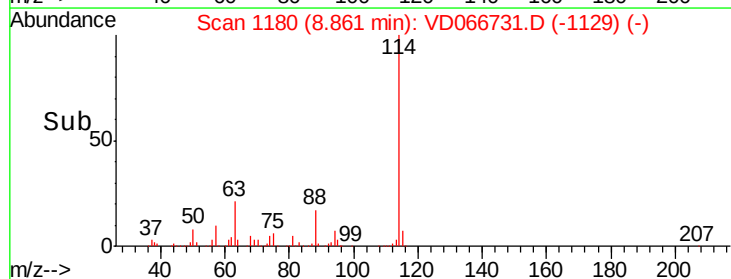
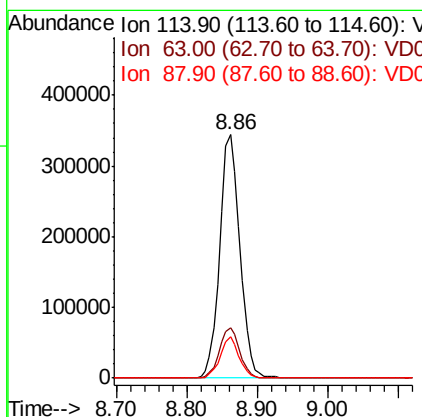
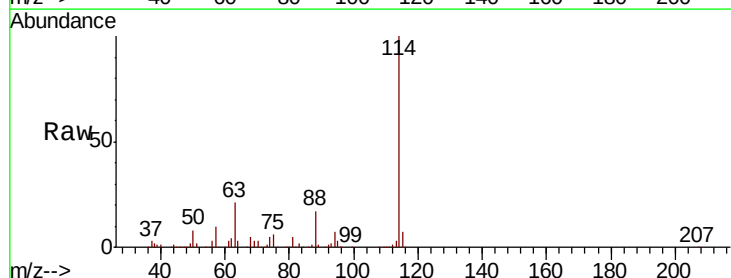
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PAV-091620-DP

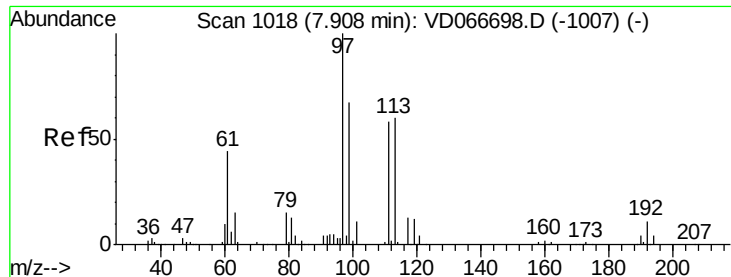
Tot Ion: 65 Resp: 245296  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 102.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. -0.00 min  
 Lab File: VD066731.D  
 Acq: 16 Sep 2020 20:33

Tgt Ion: 114 Resp: 684044  
 Ion Ratio Lower Upper  
 114 100  
 63 20.7 0.0 37.6  
 88 16.9 0.0 32.2

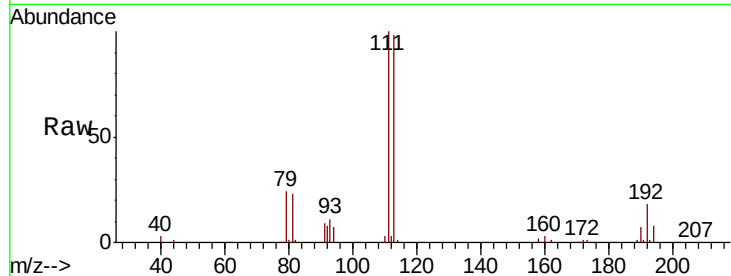




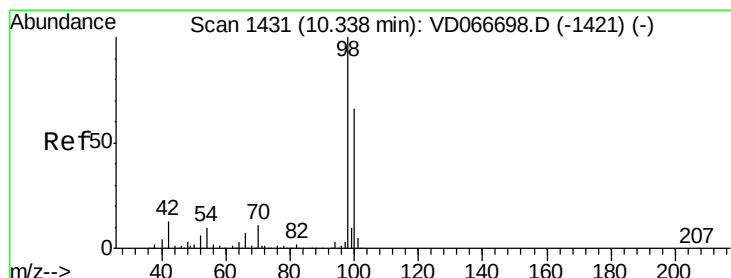
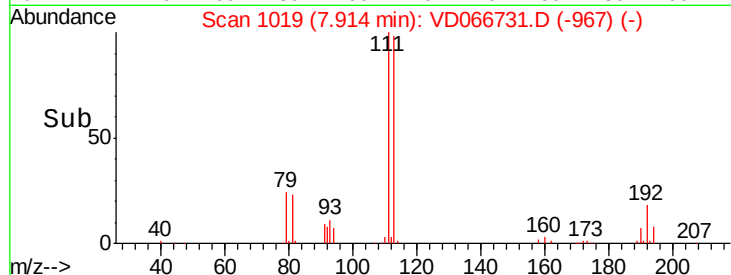
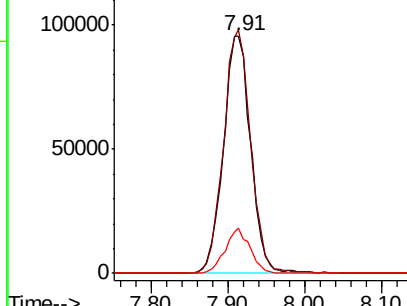
#35  
 Dibromofluoromethane  
 Concen: 56.230 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.01 min  
 Lab File: VD066731.D  
 Acq: 16 Sep 2020 20:33

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PAV-091620-DP

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.9 | 83.2  | 124.8 |
| 192     | 17.3  | 14.8  | 22.2  |

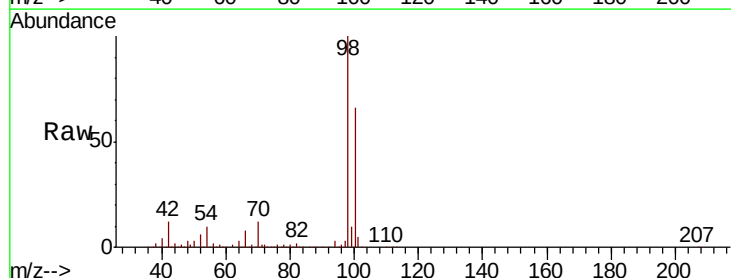


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

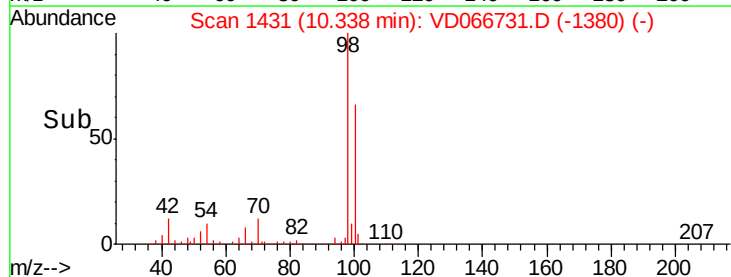
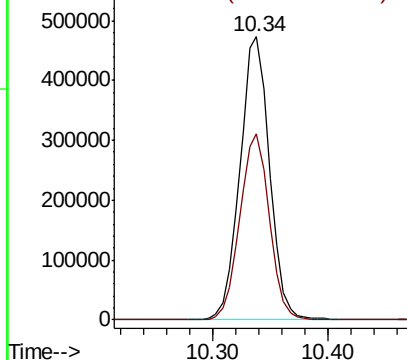


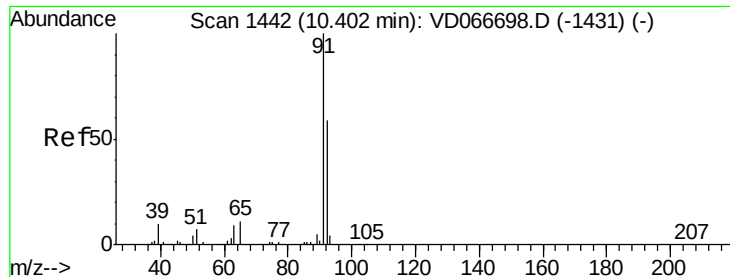
#50  
 Toluene-d8  
 Concen: 56.340 ug/l  
 RT: 10.34 min Scan# 1431  
 Delta R.T. -0.00 min  
 Lab File: VD066731.D  
 Acq: 16 Sep 2020 20:33

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 65.5  | 52.7  | 79.1  |



Abundance Ion 98.00 (97.70 to 98.70): VD  
 Ion 100.00 (99.70 to 100.70): VD





#52

Toluene

Concen: 2.549 ug/l

RT: 10.40 min Scan# 1442

Delta R.T. -0.00 min

Lab File: VD066731.D

Acq: 16 Sep 2020 20:33

Instrument :

MSVOA\_D

ClientSampleId :

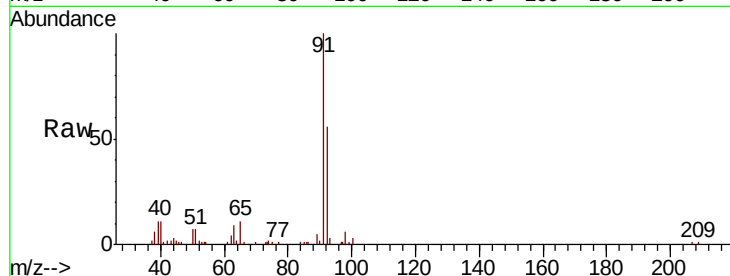
PAV-091620-DP

Tot Ion: 92 Resp: 31065

Ion Ratio Lower Upper

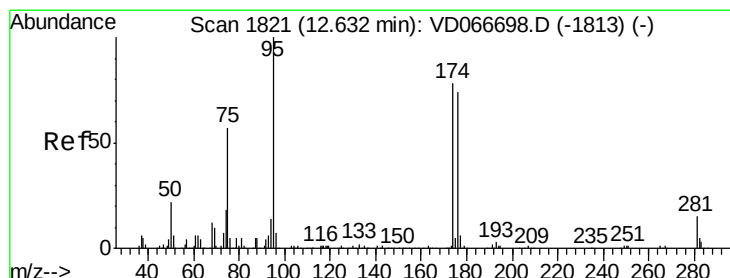
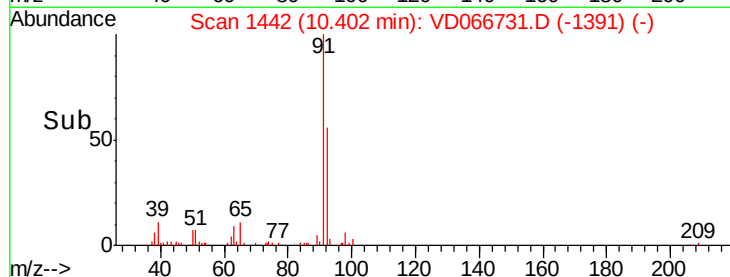
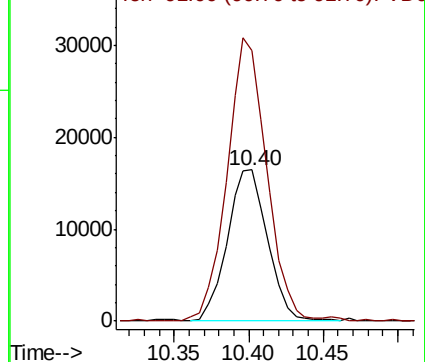
92 100

91 182.1 135.8 203.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: 54.372 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.00 min

Lab File: VD066731.D

Acq: 16 Sep 2020 20:33

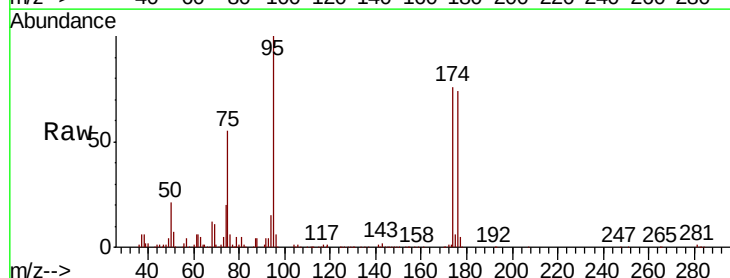
Tgt Ion: 95 Resp: 280431

Ion Ratio Lower Upper

95 100

174 75.4 0.0 156.6

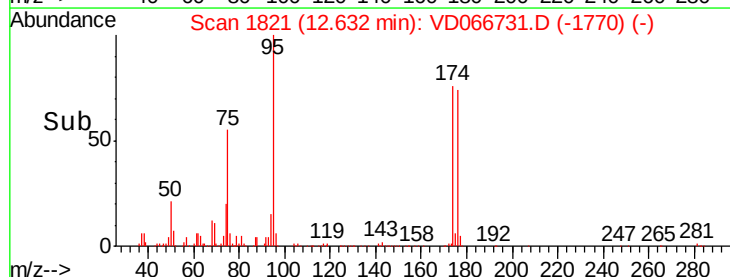
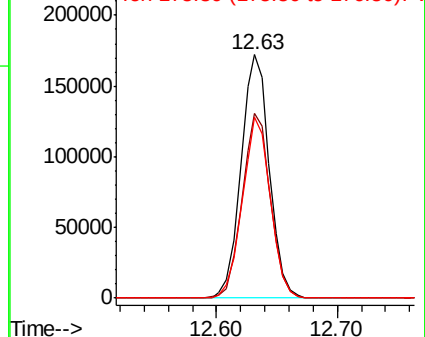
176 73.9 0.0 150.2

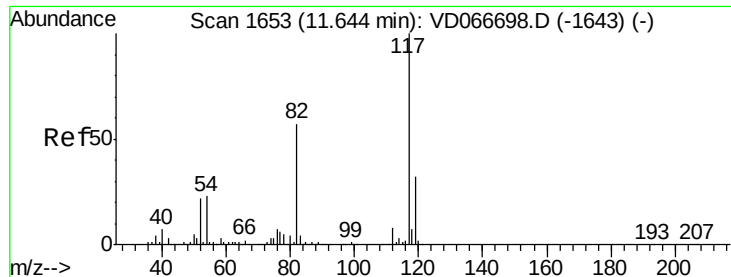


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

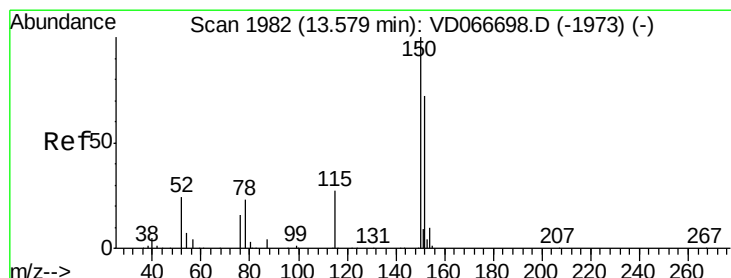
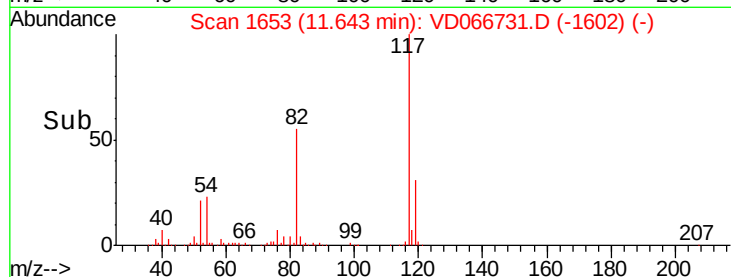
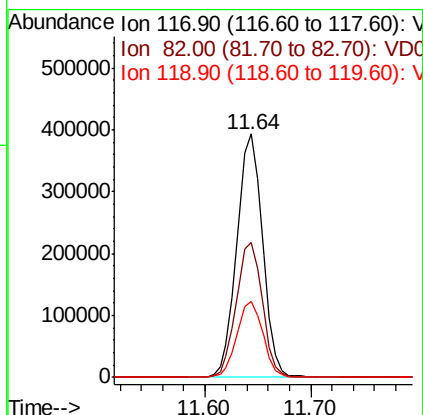
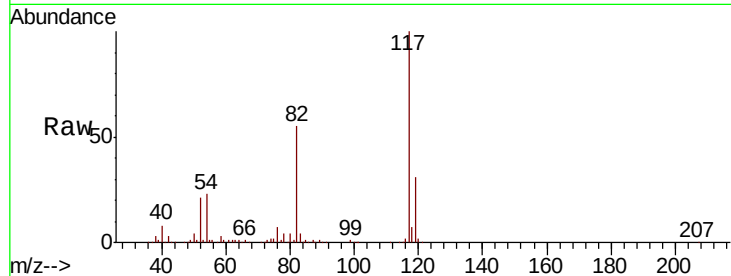




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. -0.00 min  
Lab File: VD066731.D  
Acq: 16 Sep 2020 20:33

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PAV-091620-DP

Tot Ion:117 Resp: 662616  
Ion Ratio Lower Upper  
117 100  
82 55.2 45.4 68.0  
119 31.0 25.8 38.6



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. -0.00 min  
Lab File: VD066731.D  
Acq: 16 Sep 2020 20:33

Tgt Ion:152 Resp: 284759  
Ion Ratio Lower Upper  
152 100  
115 62.0 30.5 91.5  
150 157.5 0.0 344.6

