

Data Path : \\74.0.250.170\TERASTORAGE\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD102919\  
 Data File : VD064104.D  
 Acq On : 29 Oct 2019 22:28  
 Operator : VA/SY  
 Sample : K5599-09  
 Misc : 4.43G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 24 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 Z3-22A

Quant Time: Oct 30 08:52:11 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D102919S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 08:00:10 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 229400   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 388761   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 402335   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 208746   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds |        |     |          |       |         |      |
|-----------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4   | 8.34   | 65  | 102958   | 56.43 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 112.86% |      |
| 35) Dibromofluoromethane    | 7.92   | 113 | 118645   | 49.61 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 99.22%  |      |
| 50) Toluene-d8              | 10.34  | 98  | 479152   | 50.09 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 100.18% |      |
| 62) 4-Bromofluorobenzene    | 12.64  | 95  | 161959   | 51.07 | ug/l    | 0.00 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.14% |      |

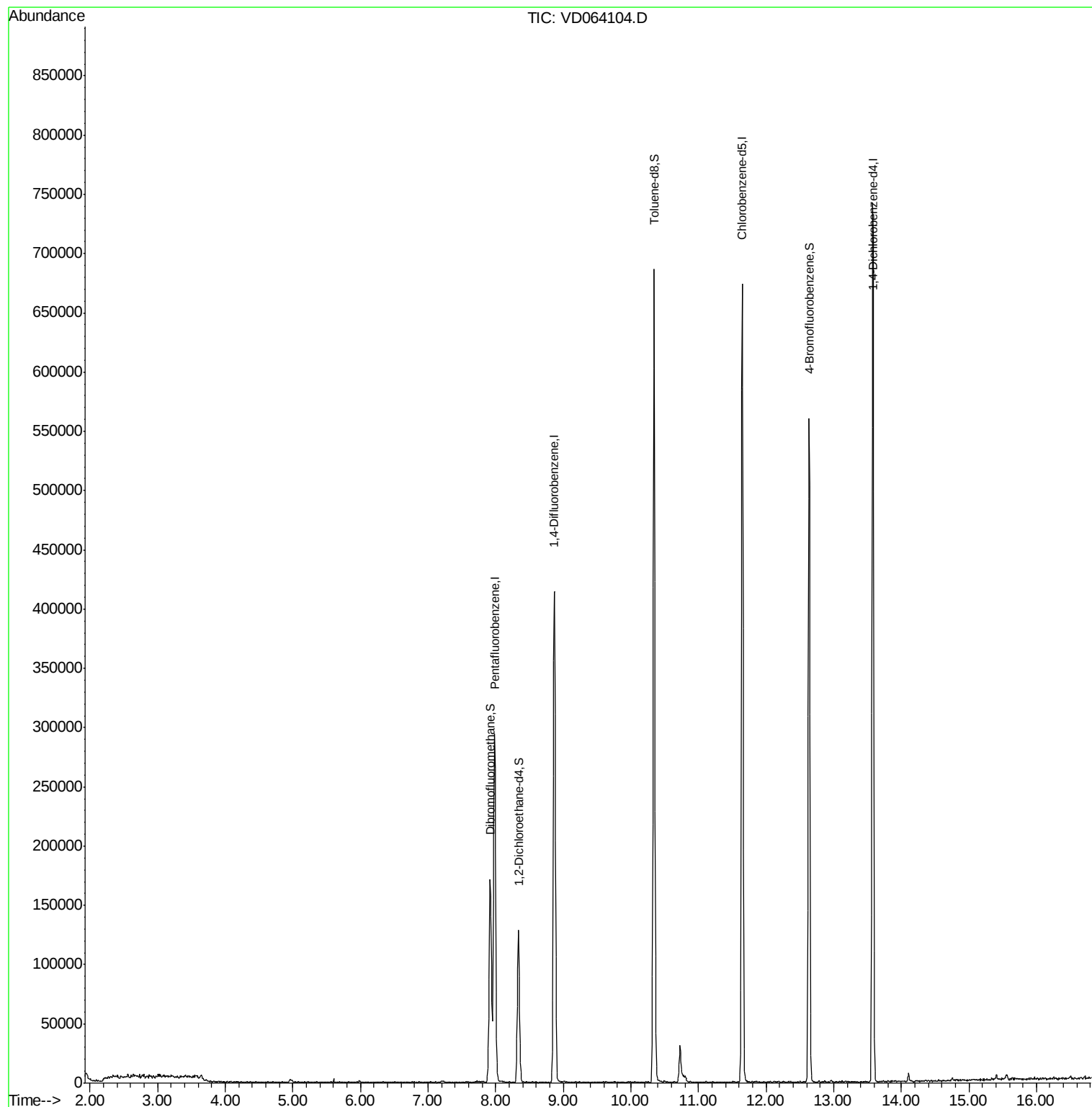
| Target Compounds | Qvalue |
|------------------|--------|
| -----            |        |

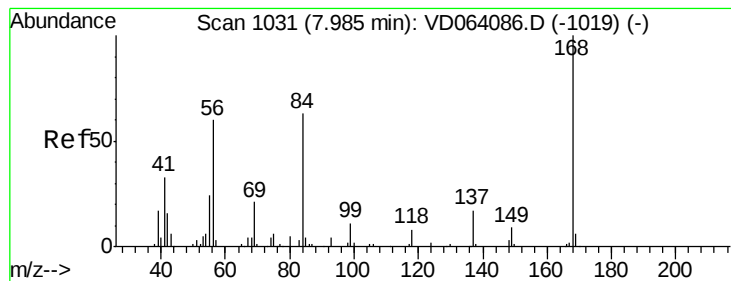
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Oct 30 08:00:10 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD064104.D

Acq: 29 Oct 2019 22:28

Instrument :

MSVOA\_D

ClientSampleId :

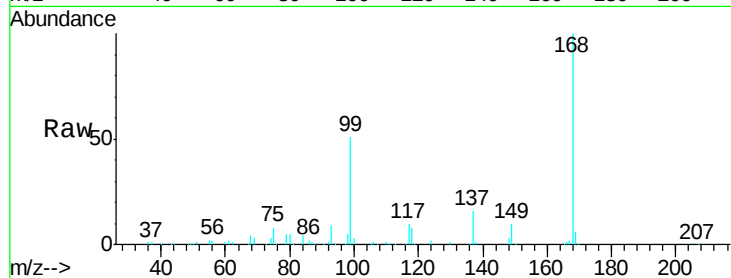
Z3-22A

Tgt Ion:168 Resp: 229400

Ion Ratio Lower Upper

168 100

99 51.4 37.6 56.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

100000

80000

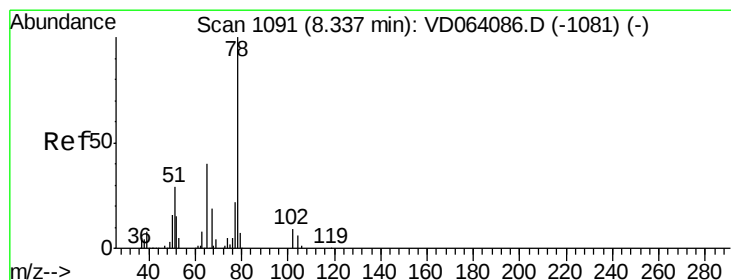
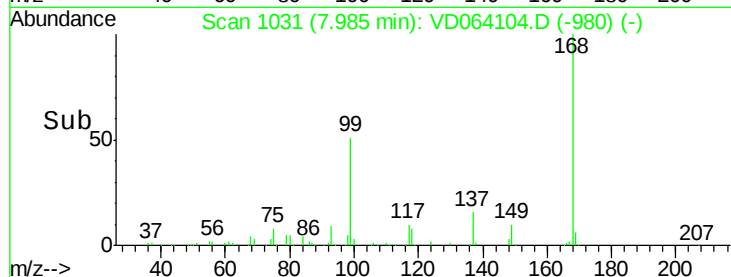
60000

40000

20000

0

Time-->



#33

1,2-Dichloroethane-d4

Concen: 56.433 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD064104.D

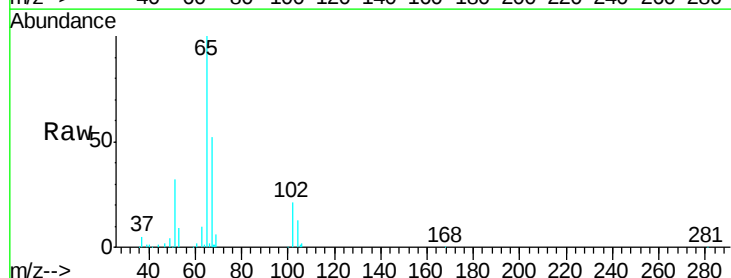
Acq: 29 Oct 2019 22:28

Tgt Ion: 65 Resp: 102958

Ion Ratio Lower Upper

65 100

67 50.8 0.0 104.6



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

8.34

50000

40000

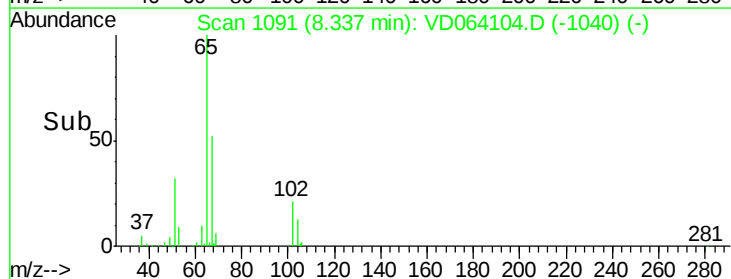
30000

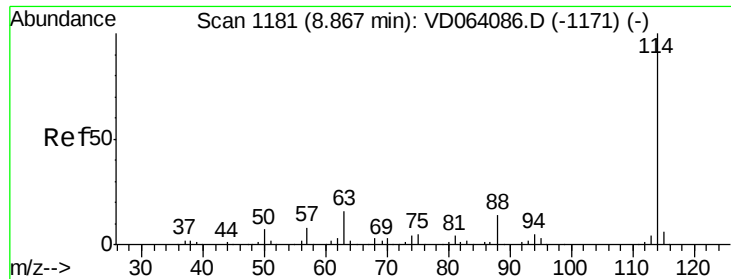
20000

10000

0

Time-->

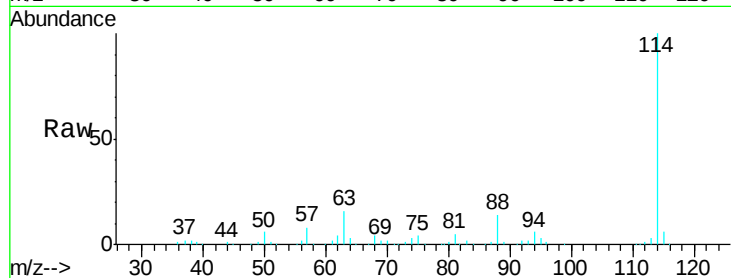




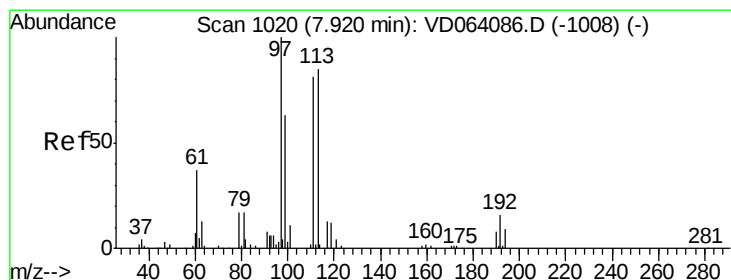
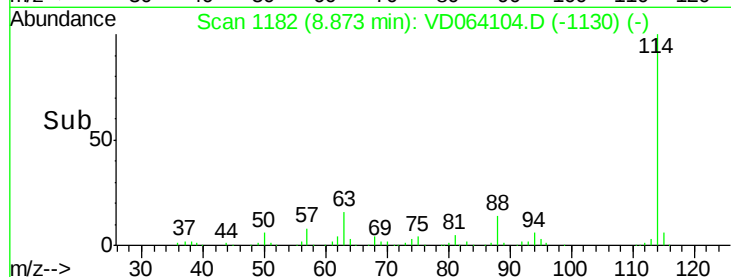
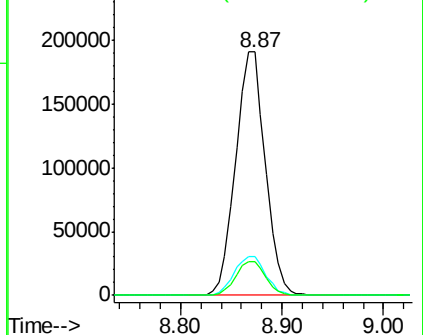
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1182  
 Delta R.T. 0.01 min  
 Lab File: VD064104.D  
 Acq: 29 Oct 2019 22:28

Instrument :  
 MSVOA\_D  
 ClientSampled :  
 Z3-22A

Tgt Ion:114 Resp: 388761  
 Ion Ratio Lower Upper  
 114 100  
 63 16.0 0.0 32.8  
 88 14.0 0.0 27.6

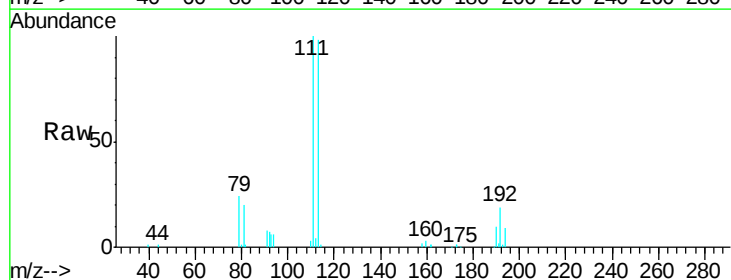


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

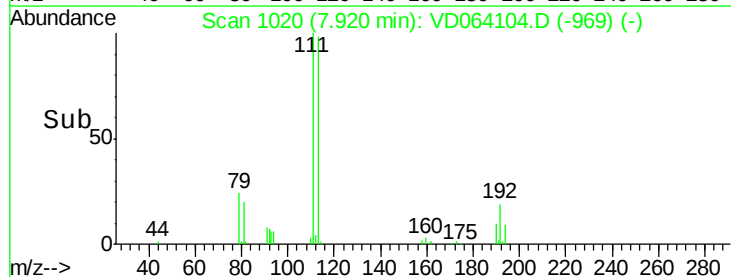
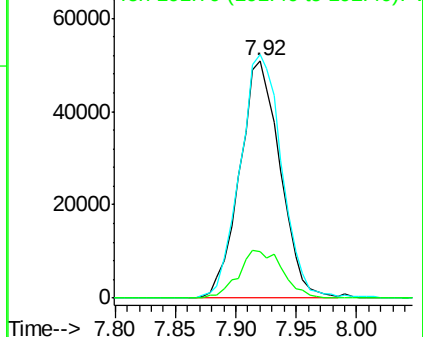


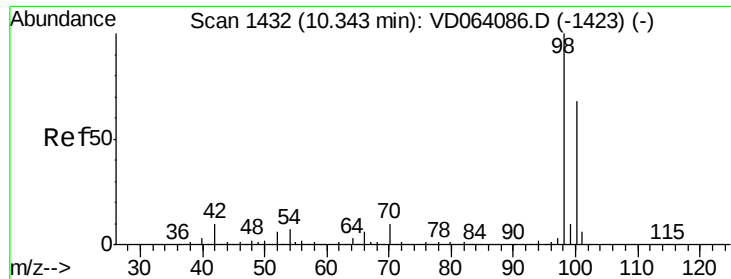
#35  
 Dibromofluoromethane  
 Concen: 49.606 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD064104.D  
 Acq: 29 Oct 2019 22:28

Tgt Ion:113 Resp: 118645  
 Ion Ratio Lower Upper  
 113 100  
 111 106.2 79.3 118.9  
 192 21.7 16.2 24.2



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: 50.094 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD064104.D

Acq: 29 Oct 2019 22:28

Instrument :

MSVOA\_D

ClientSampleId :

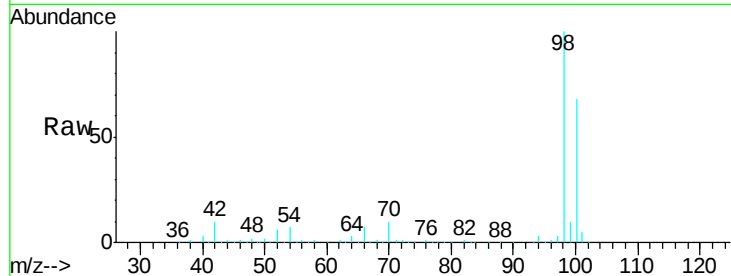
Z3-22A

Tgt Ion: 98 Resp: 479152

Ion Ratio Lower Upper

98 100

100 65.0 53.4 80.0



Abundance Ion 98.00 (97.70 to 98.70): VDC

Ion 100.00 (99.70 to 100.70): VDC

10.34

250000

200000

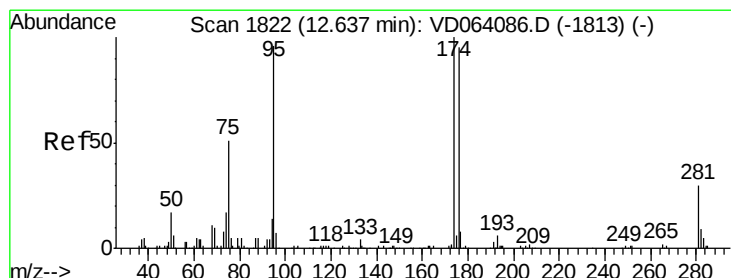
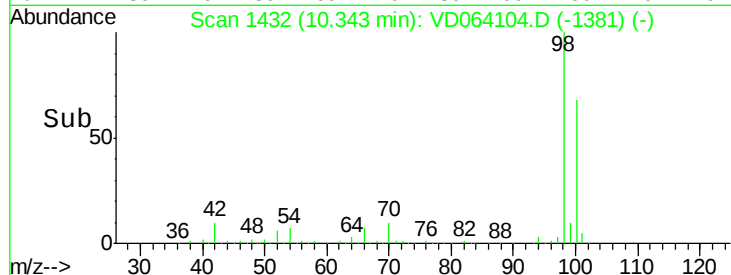
150000

100000

50000

0

Time-->



#62

4-Bromofluorobenzene

Concen: 51.073 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.00 min

Lab File: VD064104.D

Acq: 29 Oct 2019 22:28

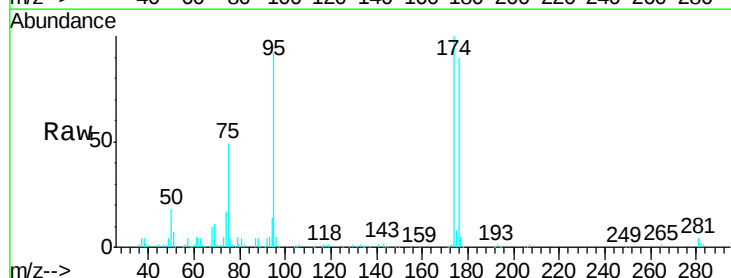
Tgt Ion: 95 Resp: 161959

Ion Ratio Lower Upper

95 100

174 101.7 0.0 201.6

176 97.3 0.0 192.6



Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): VDC

Ion 175.80 (175.50 to 176.50): VDC

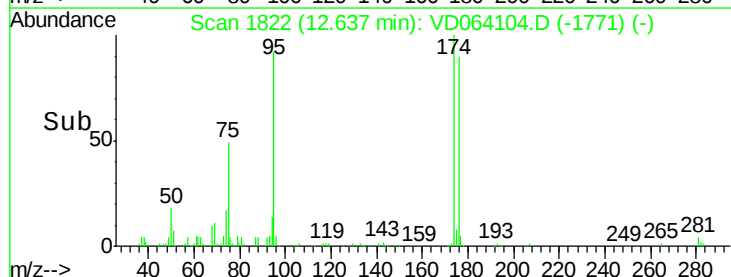
12.64

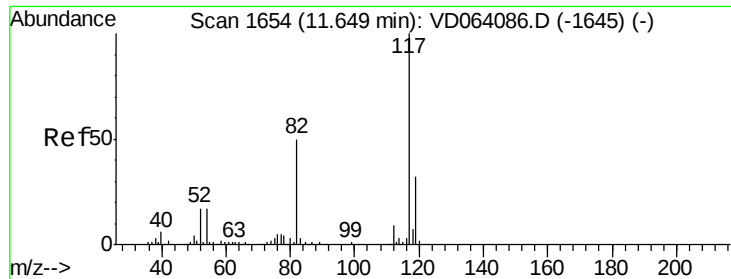
100000

50000

0

Time-->

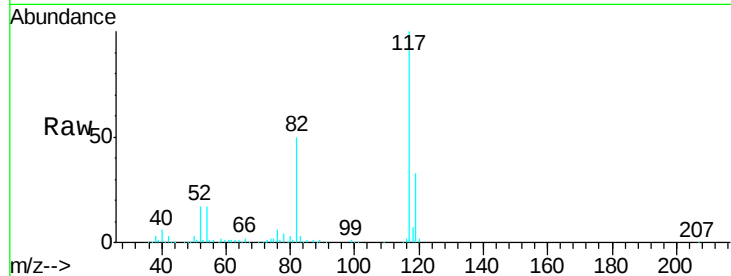




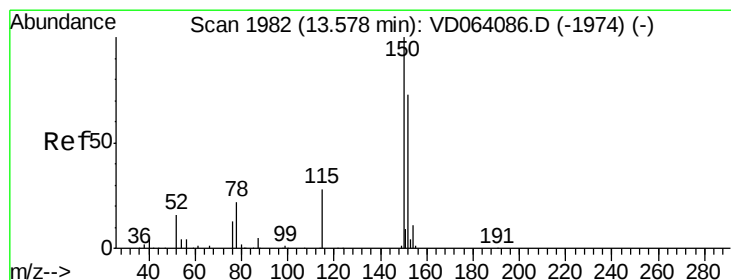
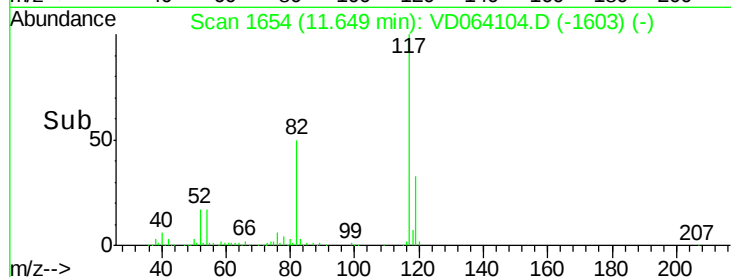
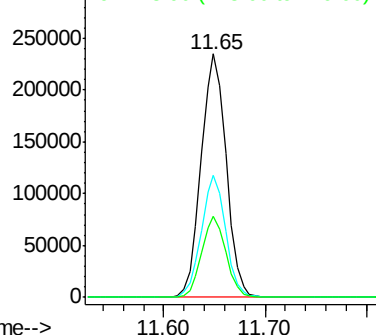
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD064104.D  
Acq: 29 Oct 2019 22:28

Instrument :  
MSVOA\_D  
ClientSampleId :  
Z3-22A

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 50.2  | 40.2  | 60.4  |
| 119     | 33.3  | 26.0  | 39.0  |

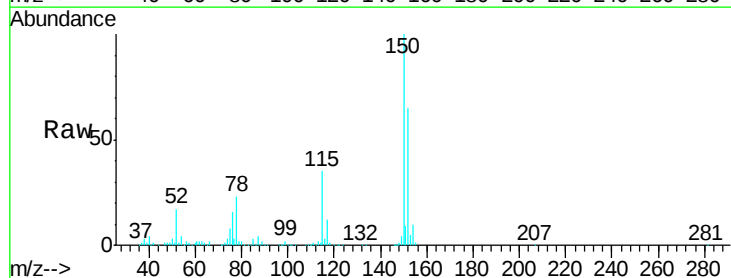


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD064104.D  
Acq: 29 Oct 2019 22:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.5  | 26.2  | 78.6  |
| 150     | 155.1 | 0.0   | 338.8 |



Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V

