

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD122619\  
 Data File : VD064619.D  
 Acq On : 27 Dec 2019 02:03  
 Operator : VA/SY  
 Sample : K6438-12  
 Misc : 5.46G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 35 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DUNR-BF009-01

Quant Time: Dec 27 06:09:38 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Dec 24 13:19:06 2019  
 Response via : Initial Calibration

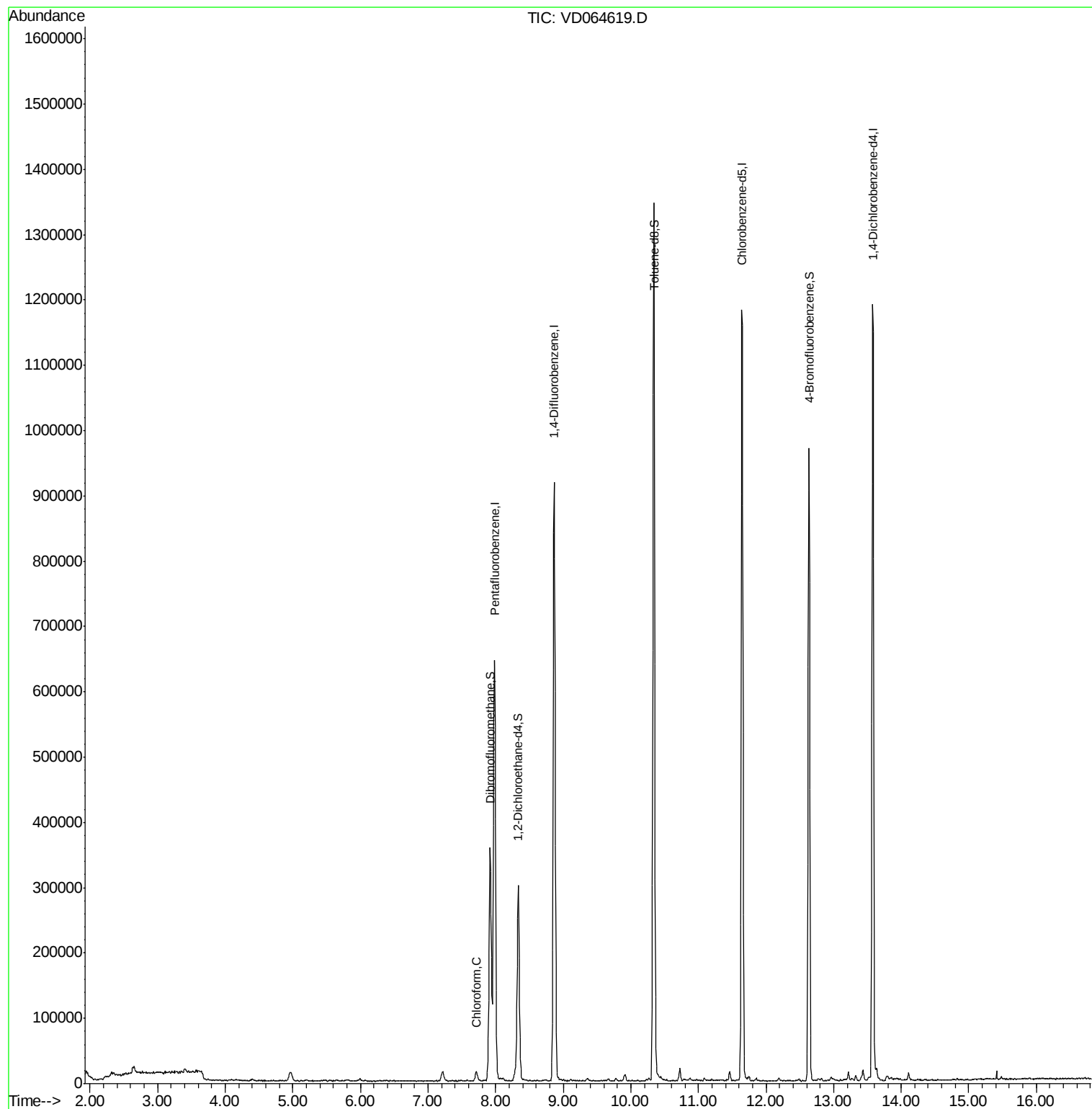
| Internal Standards          | R.T.   | QIon | Response | Conc  | Units   | Dev(Min)  |
|-----------------------------|--------|------|----------|-------|---------|-----------|
| 1) Pentafluorobenzene       | 7.98   | 168  | 506441   | 50.00 | ug/l    | 0.00      |
| 34) 1,4-Difluorobenzene     | 8.87   | 114  | 793259   | 50.00 | ug/l    | 0.00      |
| 63) Chlorobenzene-d5        | 11.64  | 117  | 692876   | 50.00 | ug/l    | 0.00      |
| 72) 1,4-Dichlorobenzene-d4  | 13.58  | 152  | 323554   | 50.00 | ug/l    | 0.00      |
| System Monitoring Compounds |        |      |          |       |         |           |
| 33) 1,2-Dichloroethane-d4   | 8.34   | 65   | 227696   | 50.99 | ug/l    | 0.00      |
| Spiked Amount               | 50.000 |      | Recovery | =     | 101.98% |           |
| 35) Dibromofluoromethane    | 7.92   | 113  | 241403   | 49.60 | ug/l    | 0.00      |
| Spiked Amount               | 50.000 |      | Recovery | =     | 99.20%  |           |
| 50) Toluene-d8              | 10.34  | 98   | 932932   | 50.05 | ug/l    | 0.00      |
| Spiked Amount               | 50.000 |      | Recovery | =     | 100.10% |           |
| 62) 4-Bromofluorobenzene    | 12.64  | 95   | 284172   | 48.21 | ug/l    | 0.00      |
| Spiked Amount               | 50.000 |      | Recovery | =     | 96.42%  |           |
| Target Compounds            |        |      |          |       |         |           |
| 30) Chloroform              | 7.72   | 83   | 13288    | 1.523 | ug/l    | Qvalue 96 |

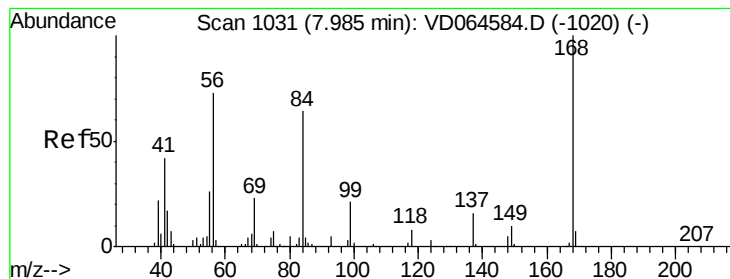
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD122619\  
Data File : VD064619.D  
Acq On : 27 Dec 2019 02:03  
Operator : VA/SY  
Sample : K6438-12  
Misc : 5.46G/5.00ml/MSVOA D/SOIL  
ALS Vial : 35 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
DUNR-BF009-01

Quant Time: Dec 27 06:09:38 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D122419S.M  
Quant Title : SW846 8260  
QLast Update : Tue Dec 24 13:19:06 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: VD064619.D

Acq: 27 Dec 2019 02:03

Instrument :

MSVOA\_D

ClientSampleId :

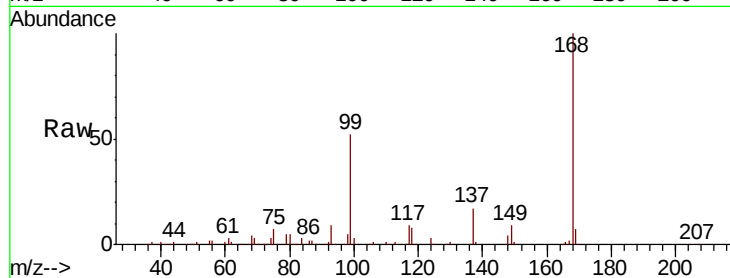
DUNR-BF009-01

Tot Ion:168 Resp: 506441

Ion Ratio Lower Upper

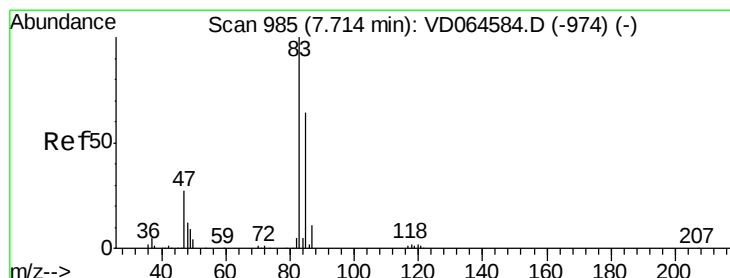
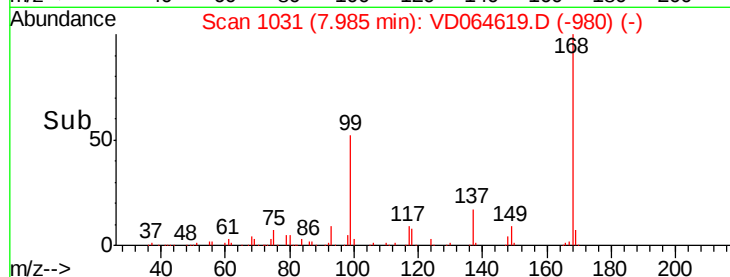
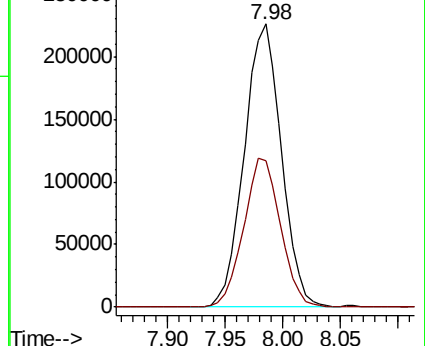
168 100

99 51.4 41.8 62.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#30

Chloroform

Concen: 1.523 ug/l

RT: 7.72 min Scan# 986

Delta R.T. 0.01 min

Lab File: VD064619.D

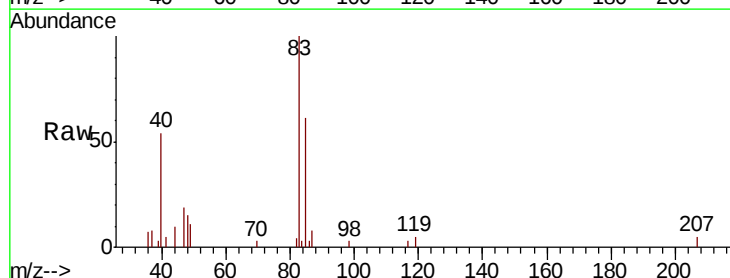
Acq: 27 Dec 2019 02:03

Tgt Ion: 83 Resp: 13288

Ion Ratio Lower Upper

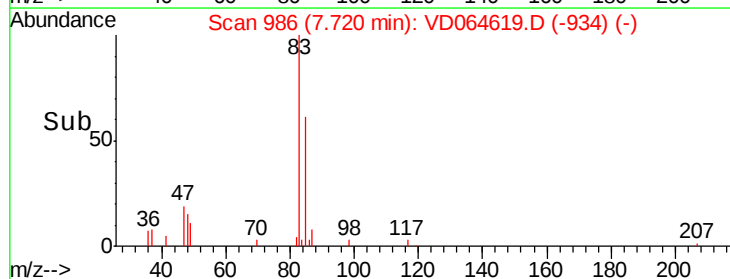
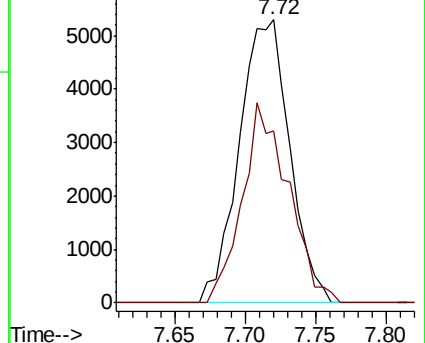
83 100

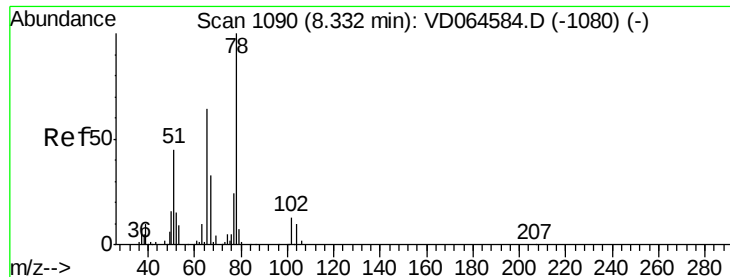
85 60.8 51.1 76.7



Abundance Ion 82.90 (82.60 to 83.60): VDC

Ion 84.90 (84.60 to 85.60): VDC





#33

1,2-Dichloroethane-d4

Concen: 50.987 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.01 min

Lab File: VD064619.D

Acq: 27 Dec 2019 02:03

Instrument :

MSVOA\_D

ClientSampleId :

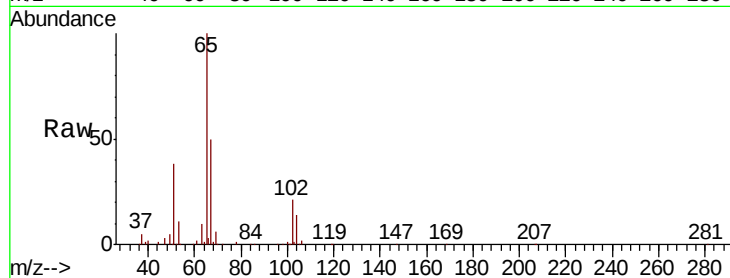
DUNR-BF009-01

Tot Ion: 65 Resp: 227696

Ion Ratio Lower Upper

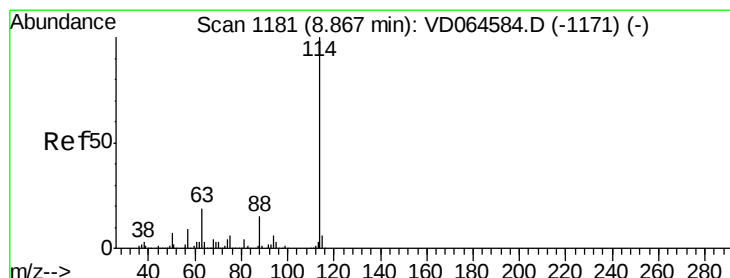
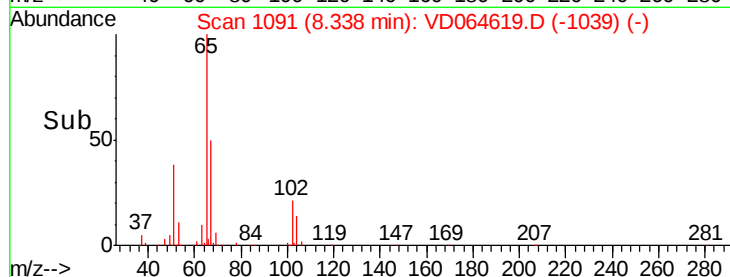
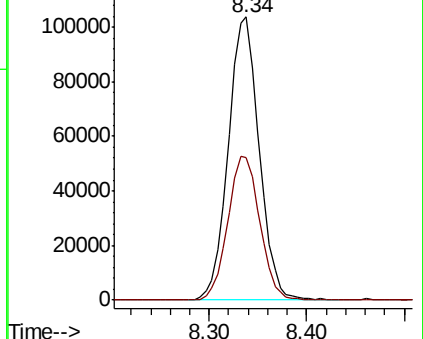
65 100

67 52.4 0.0 106.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD064619.D

Acq: 27 Dec 2019 02:03

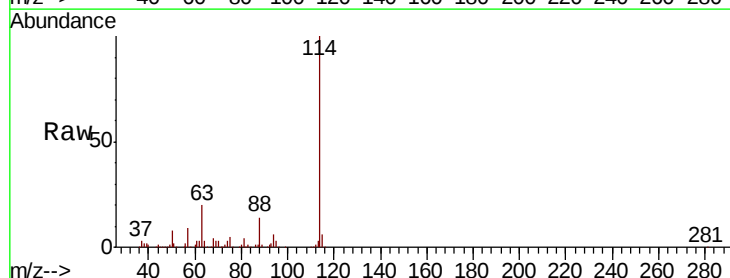
Tgt Ion: 114 Resp: 793259

Ion Ratio Lower Upper

114 100

63 20.0 0.0 38.0

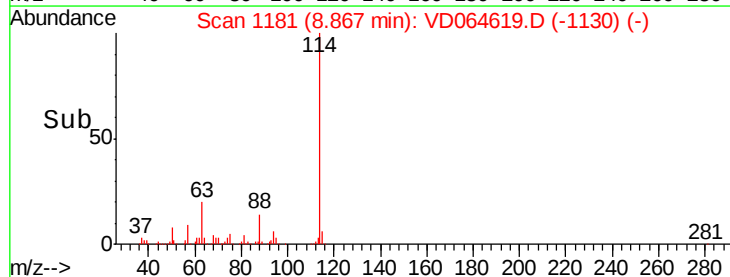
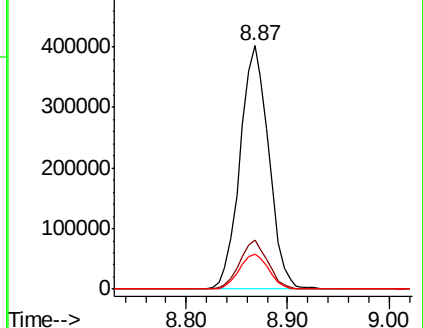
88 14.2 0.0 29.2

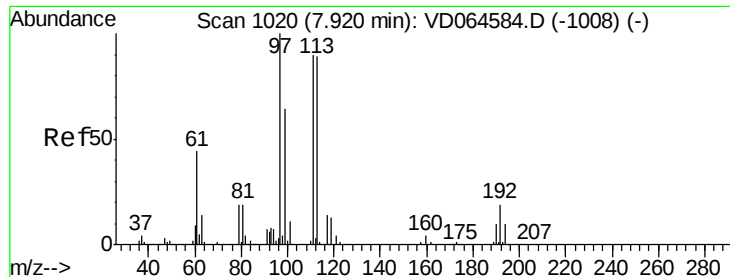


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 49.602 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD064619.D

Acq: 27 Dec 2019 02:03

Instrument :

MSVOA\_D

ClientSampleId :

DUNR-BF009-01

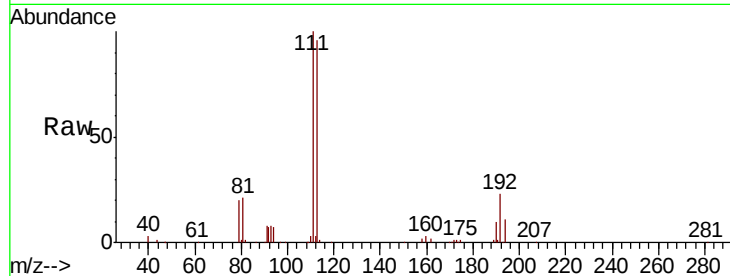
Tot Ion:113 Resp: 241403

Ion Ratio Lower Upper

113 100

111 103.8 80.6 121.0

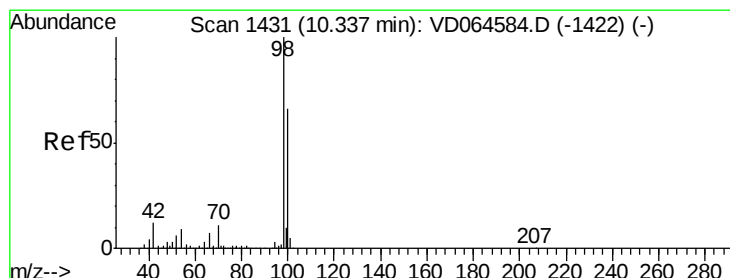
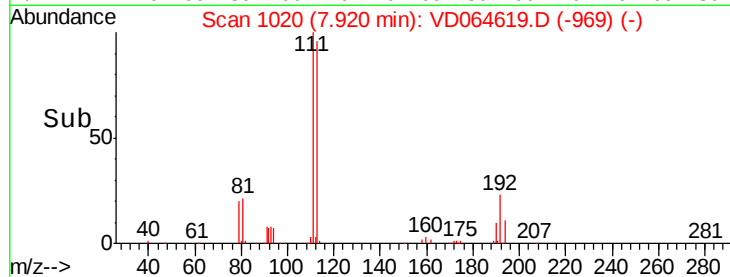
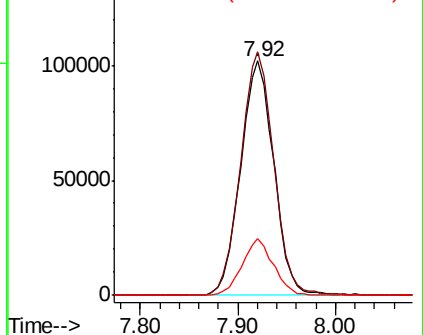
192 22.7 17.9 26.9



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: 50.052 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.01 min

Lab File: VD064619.D

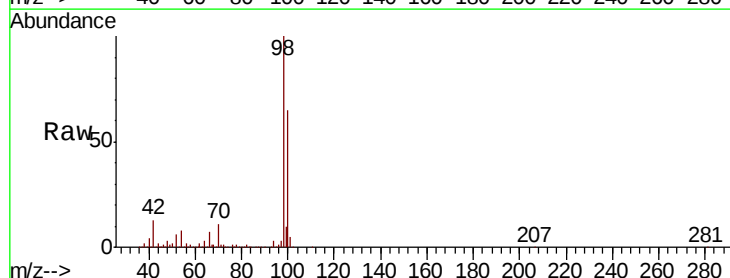
Acq: 27 Dec 2019 02:03

Tgt Ion: 98 Resp: 932932

Ion Ratio Lower Upper

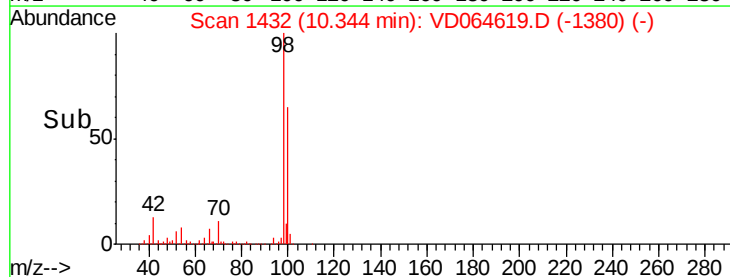
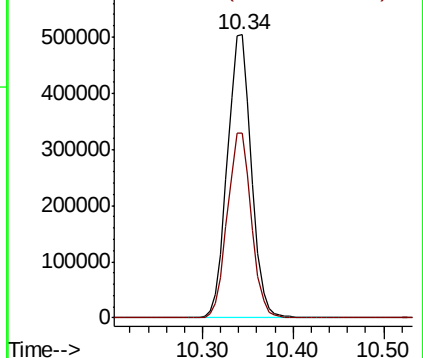
98 100

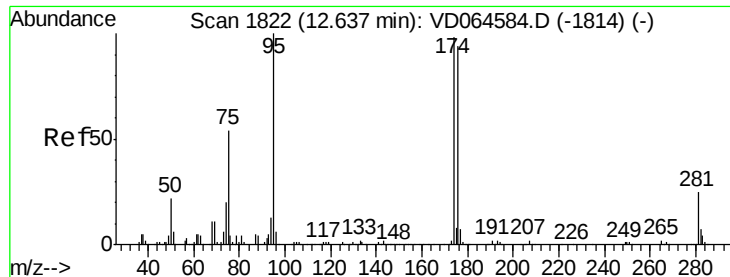
100 65.1 51.7 77.5



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V

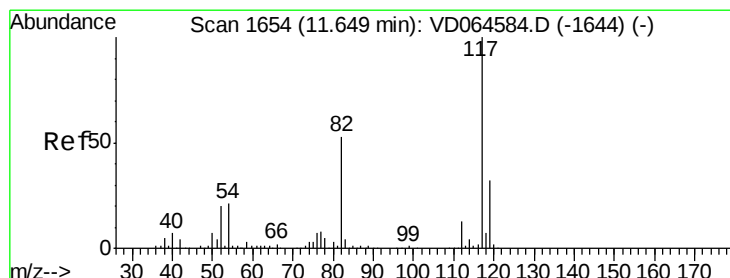
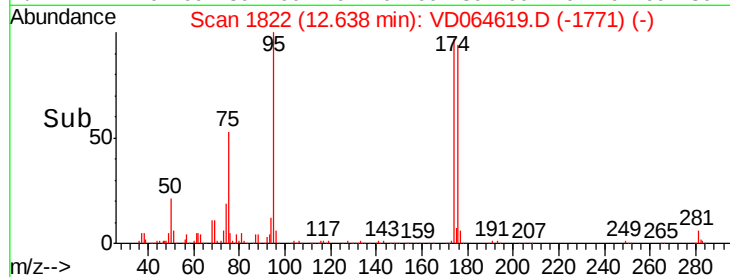
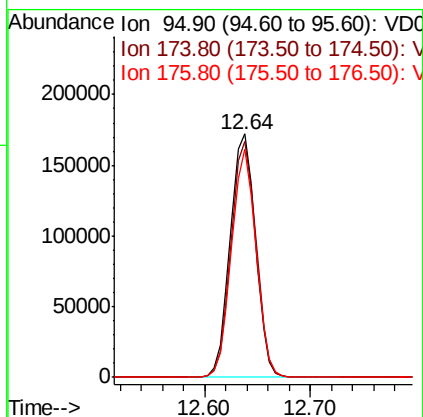
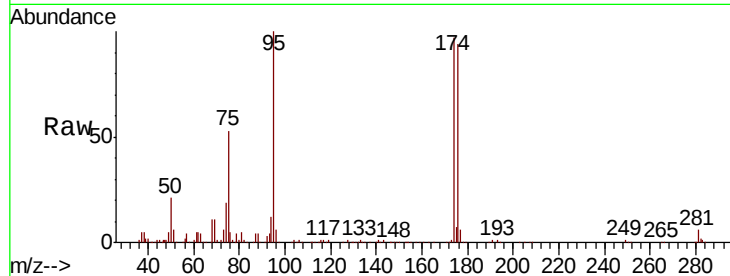




#62  
4-Bromofluorobenzene  
Concen: 48.214 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD064619.D  
Acq: 27 Dec 2019 02:03

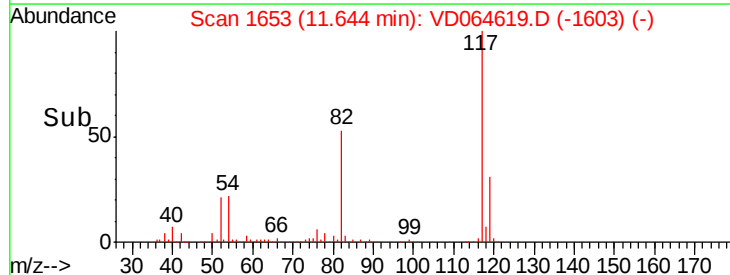
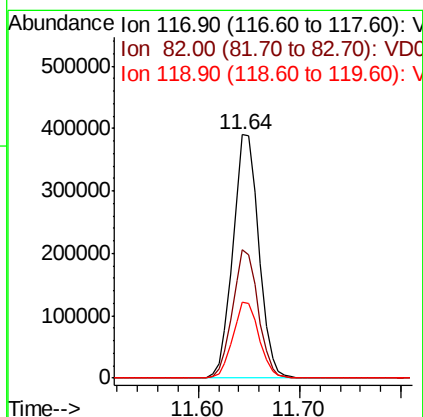
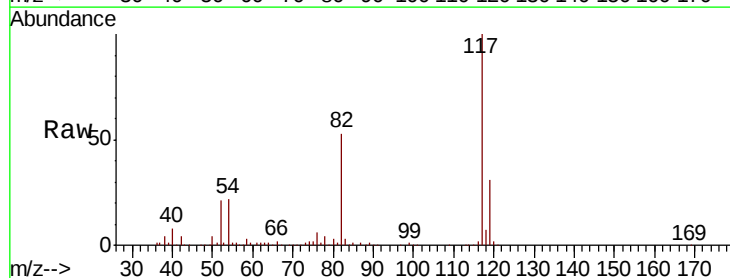
Instrument :  
MSVOA\_D  
ClientSampleId :  
DUNR-BF009-01

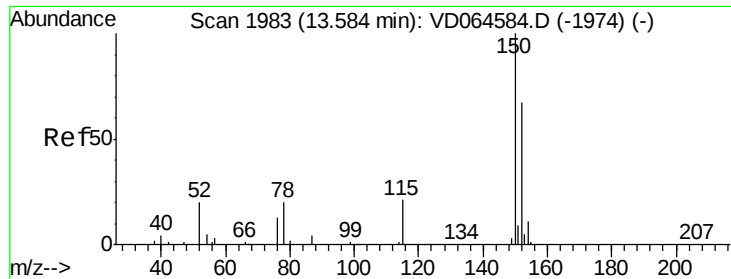
Tot Ion: 95 Resp: 284172  
Ion Ratio Lower Upper  
95 100  
174 95.8 0.0 193.2  
176 90.9 0.0 184.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. -0.01 min  
Lab File: VD064619.D  
Acq: 27 Dec 2019 02:03

Tgt Ion: 117 Resp: 692876  
Ion Ratio Lower Upper  
117 100  
82 52.8 42.2 63.4  
119 31.1 26.0 39.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.01 min

Lab File: VD064619.D

Acq: 27 Dec 2019 02:03

Instrument :

MSVOA\_D

ClientSampleId :

DUNR-BF009-01

Tot Ion:152 Resp: 323554

Ion Ratio Lower Upper

152 100

115 54.7 27.8 83.4

150 157.1 0.0 351.4

