

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022520\  
 Data File : VD065315.D  
 Acq On : 25 Feb 2020 18:23  
 Operator : VA/SY  
 Sample : L1682-01  
 Misc : 4.97G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 13 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Feb 25 23:39:55 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D021820S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 19 03:26:54 2020  
 Response via : Initial Calibration

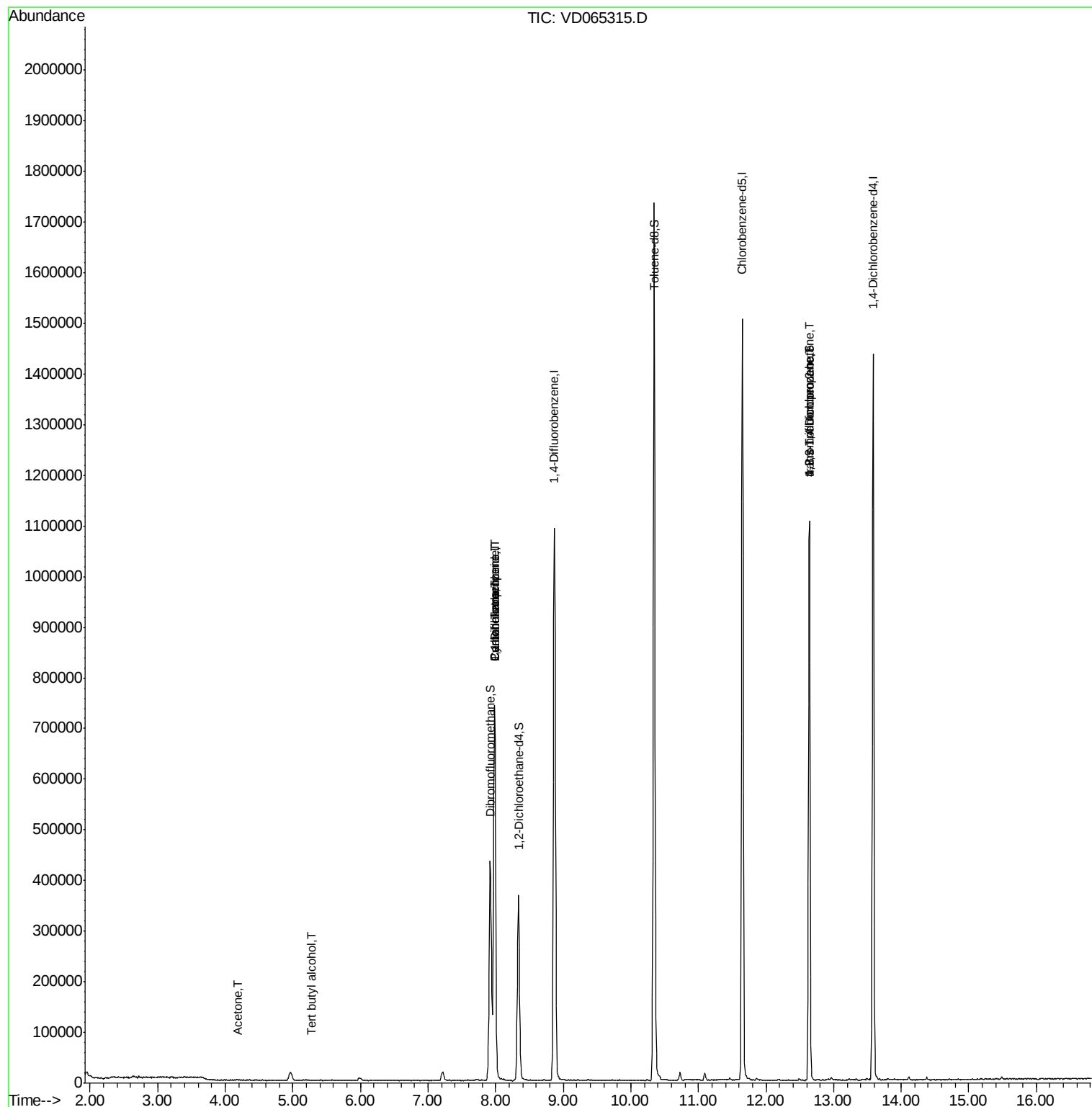
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.99  | 168  | 575959   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 984906   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 881839   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 390938   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34  | 65   | 284166   | 54.84     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 109.68% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 310756   | 51.75     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 103.50% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 1184138  | 51.58     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 103.16% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 350914   | 48.25     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 96.50%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 11) Tert butyl alcohol         | 5.27  | 59   | 1070     | 3.456     | ug/l #  | 72       |
| 16) Acetone                    | 4.19  | 43   | 2474     | 1.953     | ug/l    | 97       |
| 20) Methylene Chloride         | 4.96  | 84   | 12643    | Below Cal | #       | 97       |
| 31) Cyclohexane                | 7.99  | 56   | 10599    | 1.040     | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.99  | 75   | 41296    | 4.309     | ug/l #  | 49       |
| 38) Carbon Tetrachloride       | 7.99  | 117  | 54253    | 5.561     | ug/l #  | 16       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 168593   | 50.686    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 168593   | 109.440   | ug/l #  | 11       |

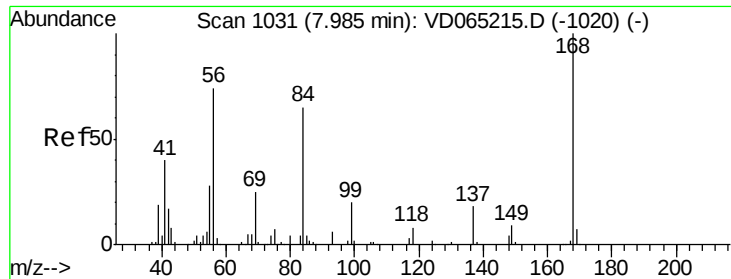
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD022520\  
Data File : VD065315.D  
Acq On : 25 Feb 2020 18:23  
Operator : VA/SY  
Sample : L1682-01  
Misc : 4.97G/5.00ml/MSVOA D/SOIL  
ALS Vial : 13 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Feb 25 23:39:55 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D021820S.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 19 03:26:54 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065315.D

Acq: 25 Feb 2020 18:23

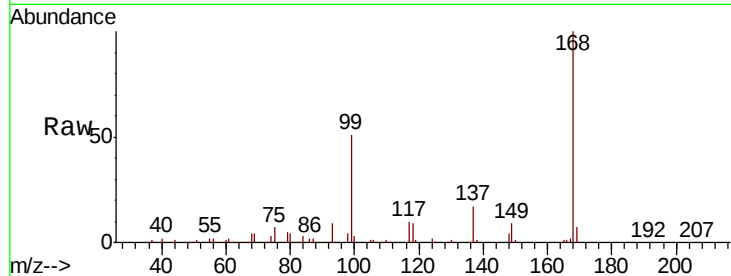
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 575959

Ion Ratio Lower Upper

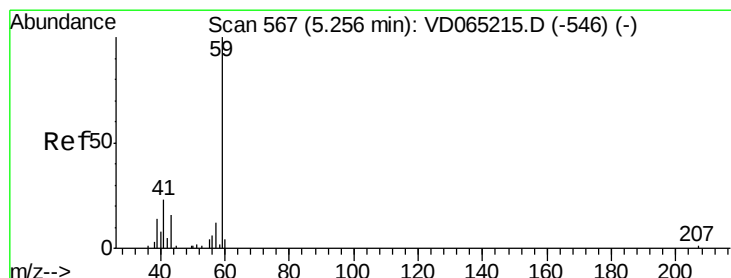
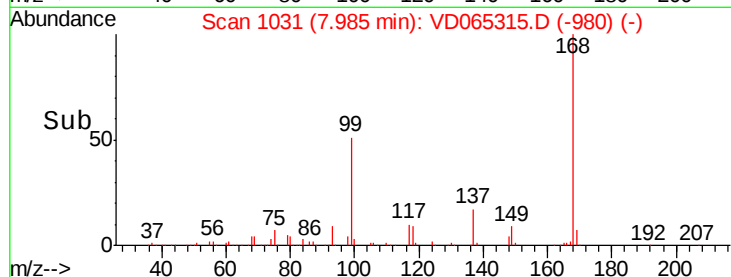
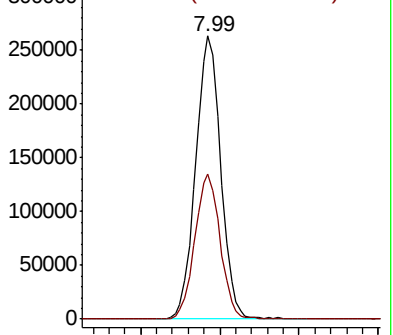
168 100

99 51.1 41.4 62.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#11

Tert butyl alcohol

Concen: 3.456 ug/l

RT: 5.27 min Scan# 570

Delta R.T. 0.02 min

Lab File: VD065315.D

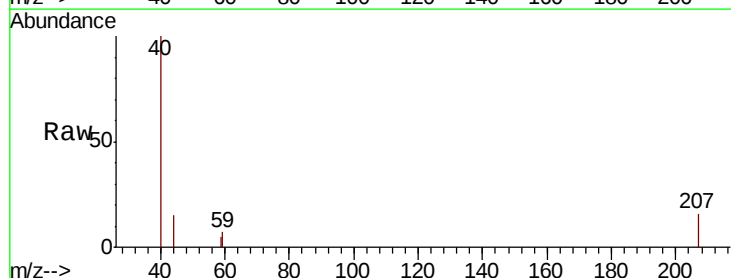
Acq: 25 Feb 2020 18:23

Tgt Ion: 59 Resp: 1070

Ion Ratio Lower Upper

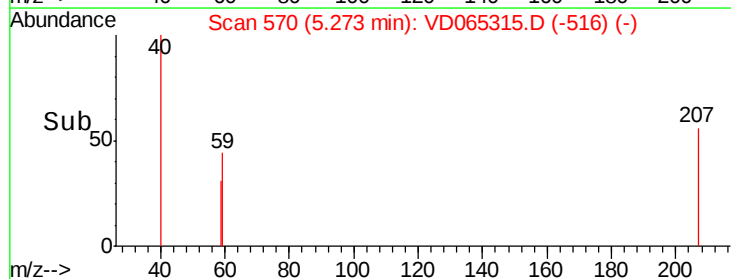
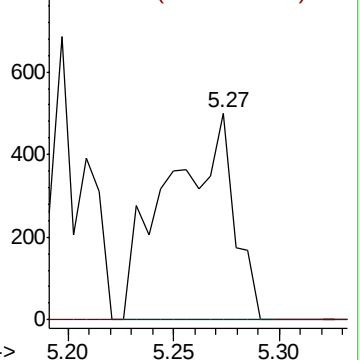
59 100

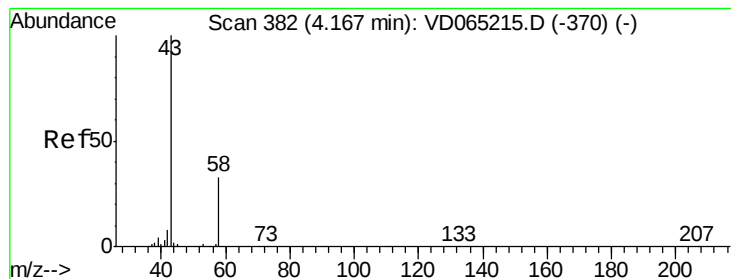
57 0.0 8.4 12.6#



Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC





#16

Acetone

Concen: 1.953 ug/l

RT: 4.19 min Scan# 385

Delta R.T. 0.02 min

Lab File: VD065315.D

Acq: 25 Feb 2020 18:23

Instrument :

MSVOA\_D

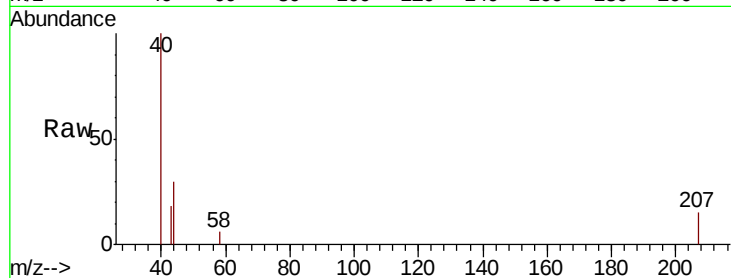
ClientSampleId :

Tot Ion: 43 Resp: 2474

Ion Ratio Lower Upper

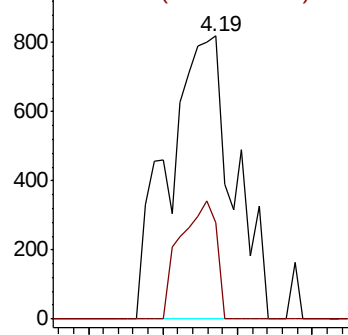
43 100

58 34.2 26.2 39.2

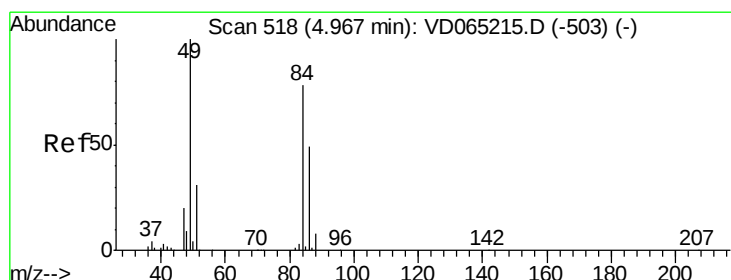
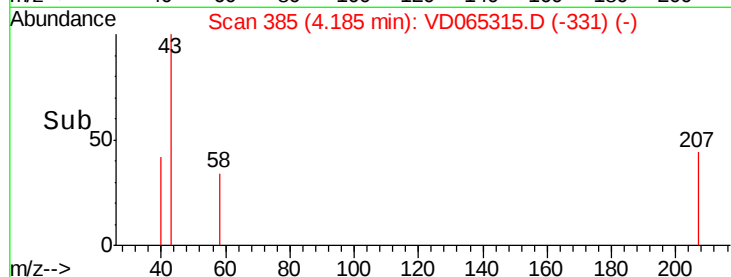


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



Time-->



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. -0.01 min

Lab File: VD065315.D

Acq: 25 Feb 2020 18:23

Tgt Ion: 84 Resp: 12643

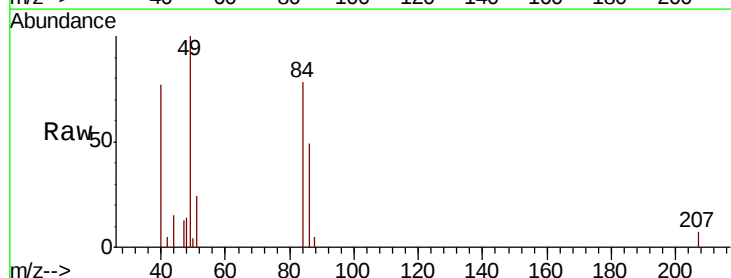
Ion Ratio Lower Upper

84 100

49 127.7 103.1 154.7

51 30.5 31.7 47.5#

86 62.5 50.9 76.3

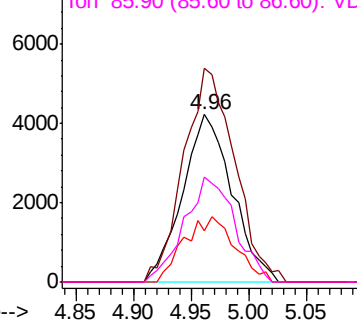


Abundance Ion 83.90 (83.60 to 84.60): VDC

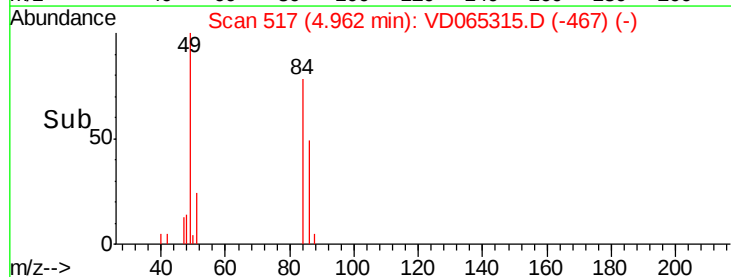
Ion 48.90 (48.60 to 49.60): VDC

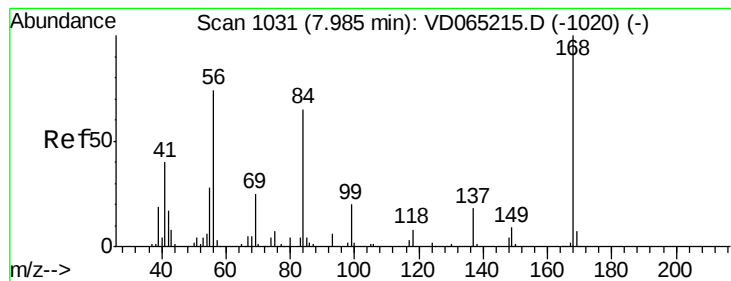
Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



Time-->





#31

Cyclohexane

Concen: 1.040 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065315.D

Acq: 25 Feb 2020 18:23

Instrument :

MSVOA\_D

ClientSampleId :

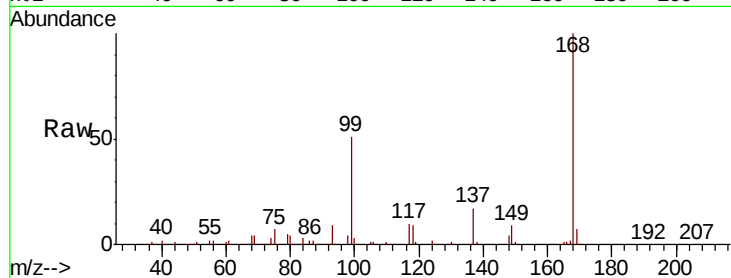
Tot Ion: 56 Resp: 10599

Ion Ratio Lower Upper

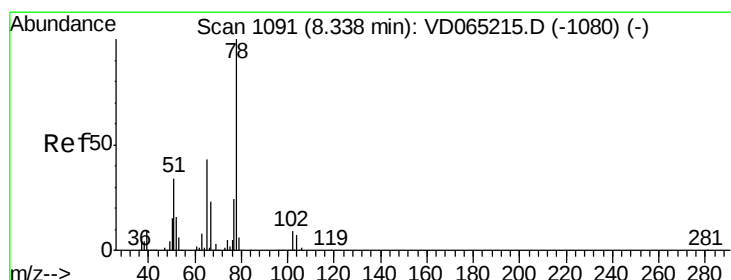
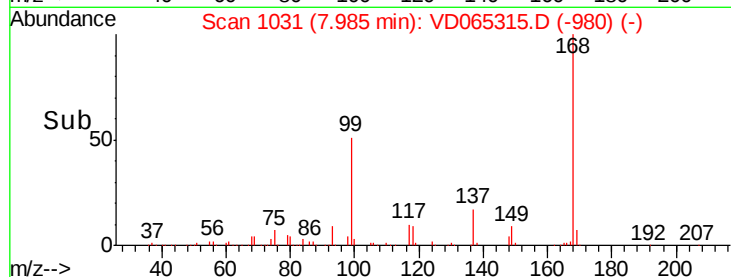
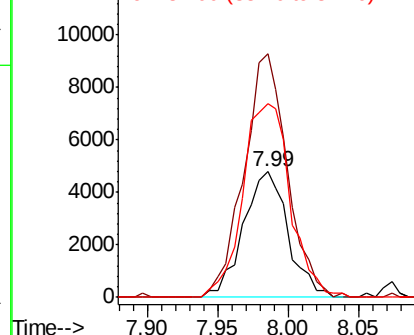
56 100

69 194.5 27.4 41.0#

84 154.7 71.1 106.7#



Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC



#33

1,2-Dichloroethane-d4

Concen: 54.844 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD065315.D

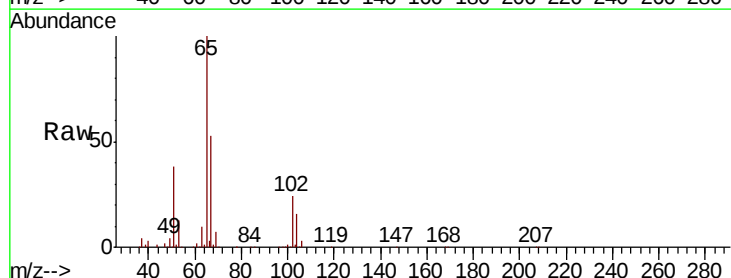
Acq: 25 Feb 2020 18:23

Tgt Ion: 65 Resp: 284166

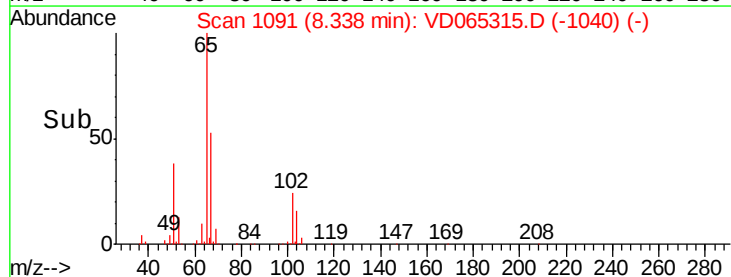
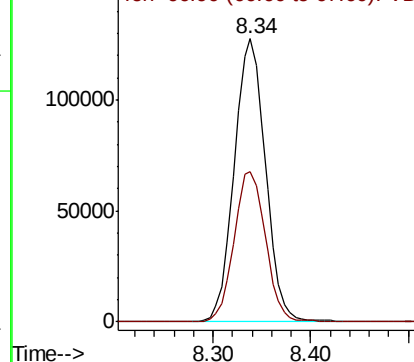
Ion Ratio Lower Upper

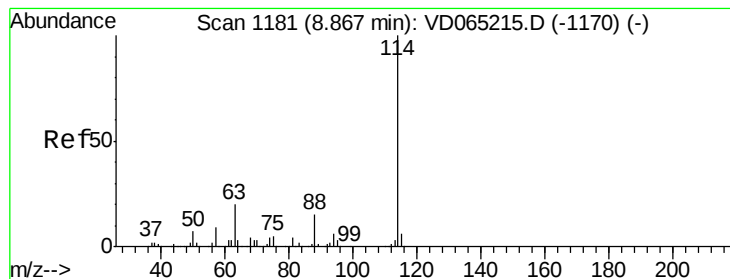
65 100

67 53.6 0.0 106.8



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# 1182

Delta R.T. 0.01 min

Lab File: VD065315.D

Acq: 25 Feb 2020 18:23

Instrument :

MSVOA\_D

ClientSampleId :

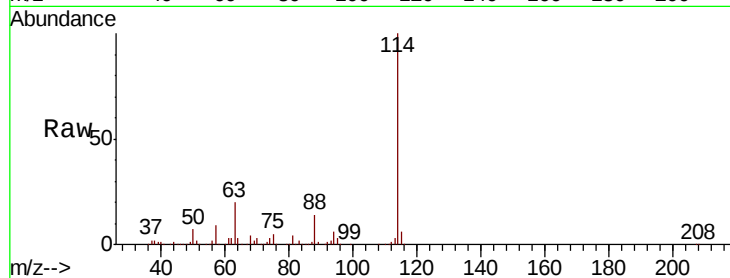
Tot Ion:114 Resp: 984906

Ion Ratio Lower Upper

114 100

63 19.8 0.0 39.4

88 14.1 0.0 30.4



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

600000

500000

400000

300000

200000

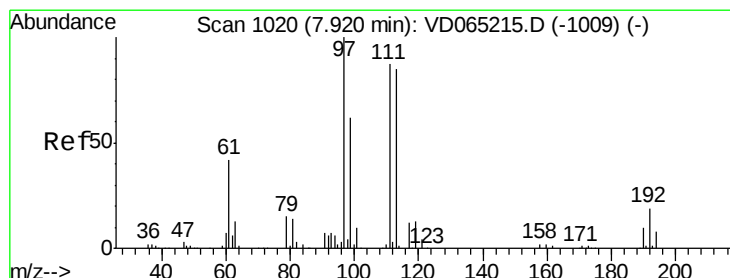
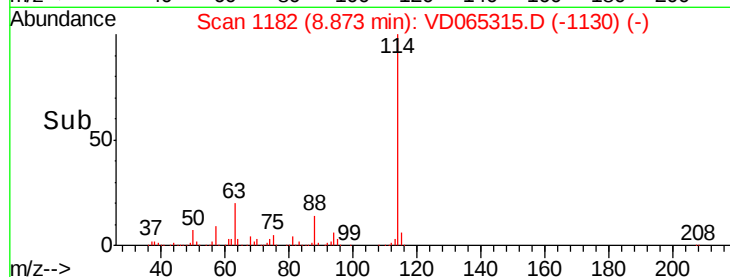
100000

0

8.87

8.80 8.90 9.00

Time-->



#35

Dibromofluoromethane

Concen: 51.746 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD065315.D

Acq: 25 Feb 2020 18:23

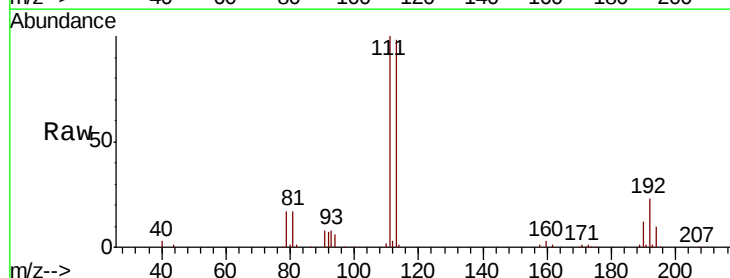
Tgt Ion:113 Resp: 310756

Ion Ratio Lower Upper

113 100

111 102.5 82.9 124.3

192 21.8 17.3 25.9



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

150000

100000

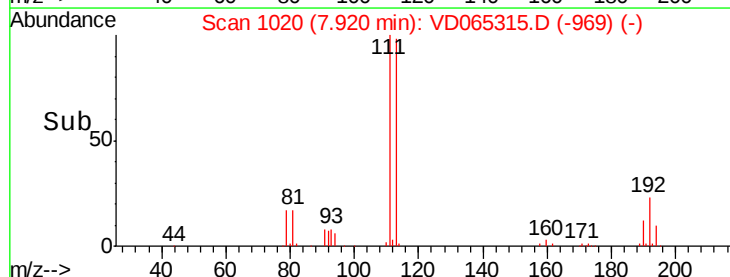
50000

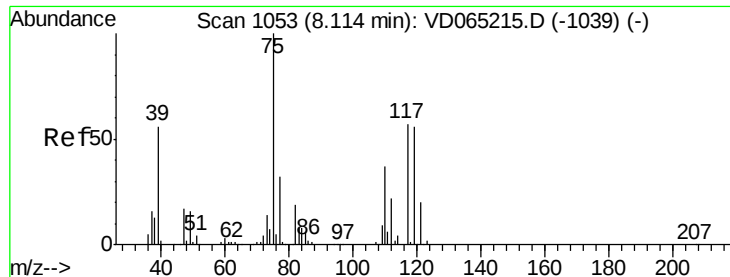
0

7.92

7.80 7.90 8.00 8.10

Time-->





#36

1,1-Dichloropropene

Concen: 4.309 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD065315.D

Acq: 25 Feb 2020 18:23

Instrument :

MSVOA\_D

ClientSampled :

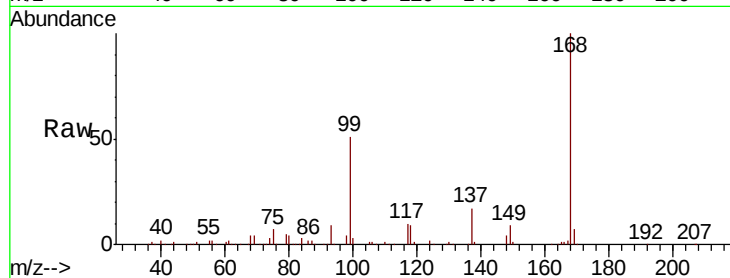
Tot Ion: 75 Resp: 41296

Ion Ratio Lower Upper

75 100

110 9.2 17.9 53.7#

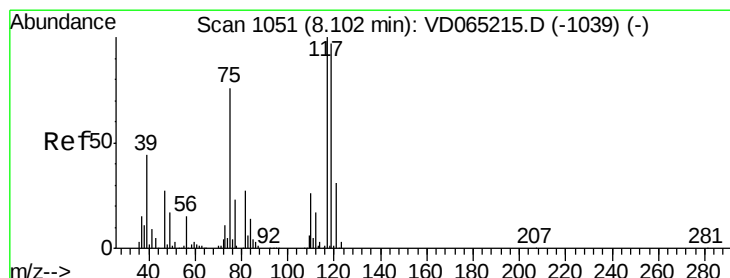
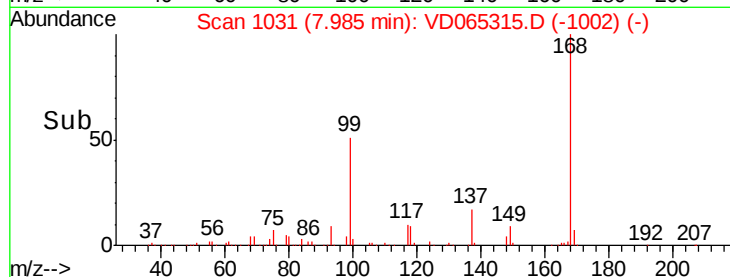
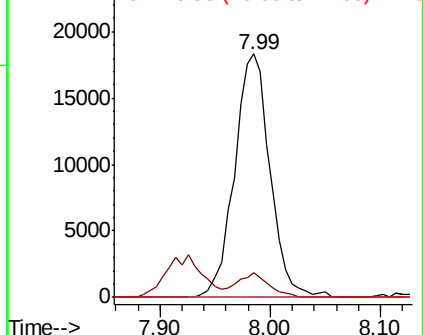
77 0.0 25.1 37.7#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.90 (76.60 to 77.60): VDC



#38

Carbon Tetrachloride

Concen: 5.561 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.12 min

Lab File: VD065315.D

Acq: 25 Feb 2020 18:23

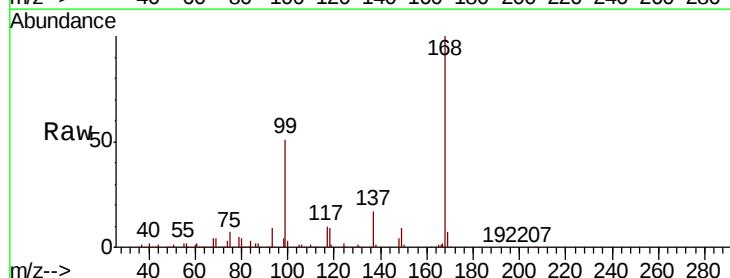
Tgt Ion: 117 Resp: 54253

Ion Ratio Lower Upper

117 100

119 5.3 77.6 116.4#

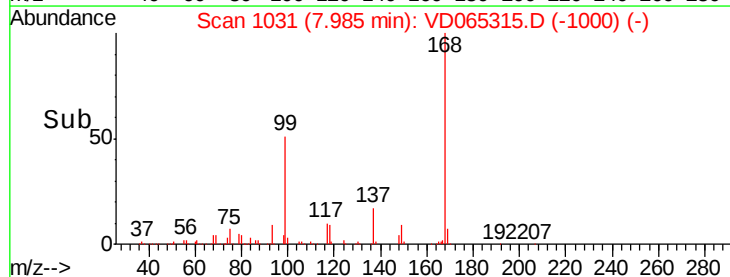
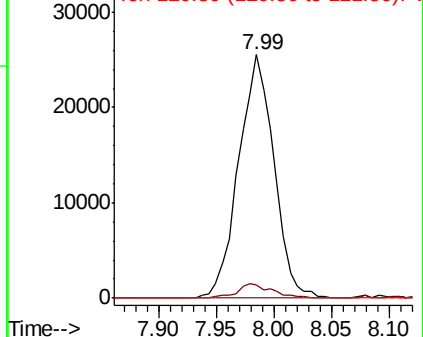
121 0.0 24.8 37.2#



Abundance Ion 116.80 (116.50 to 117.50): VDC

Ion 118.80 (118.50 to 119.50): VDC

Ion 120.80 (120.50 to 121.50): VDC

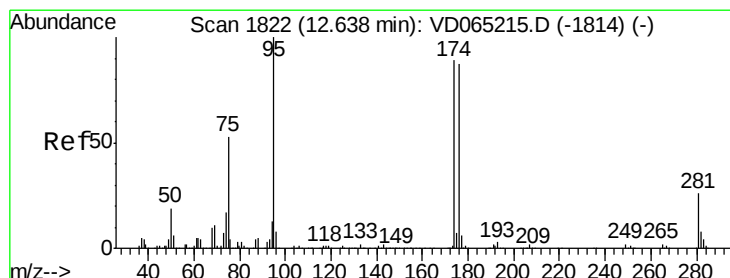
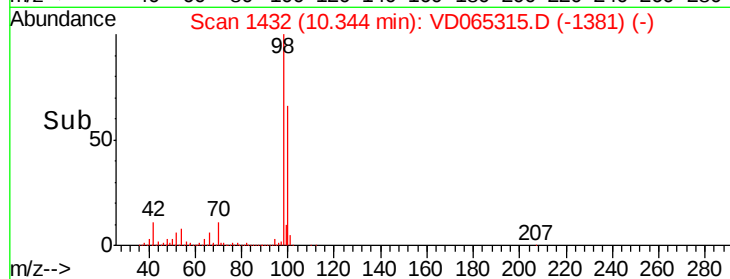
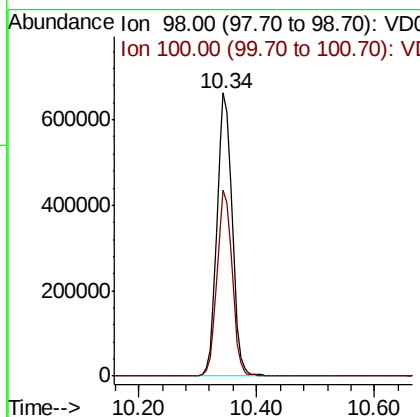
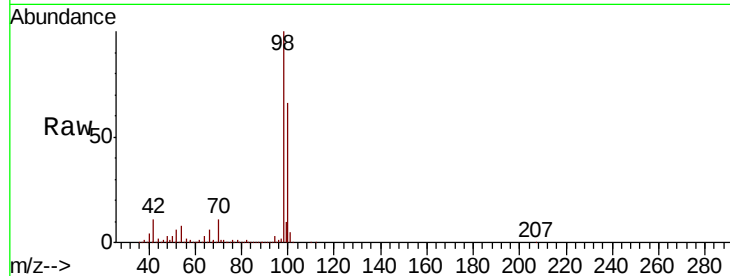




#50  
Toluene-d8  
Concen: 51.578 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD065315.D  
Acq: 25 Feb 2020 18:23

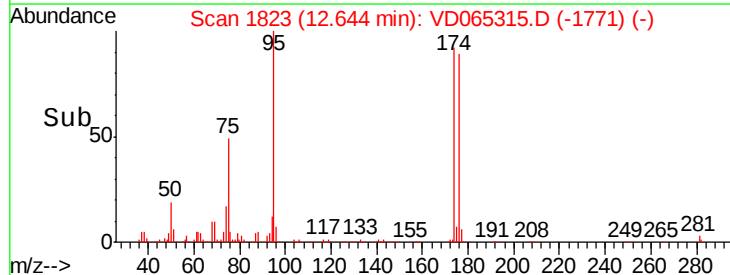
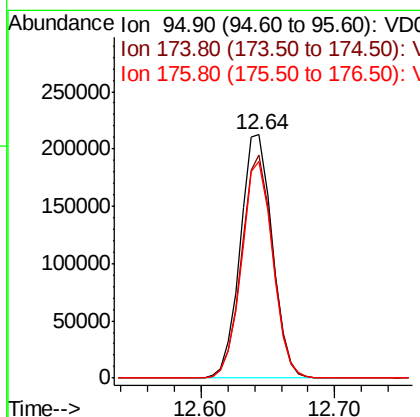
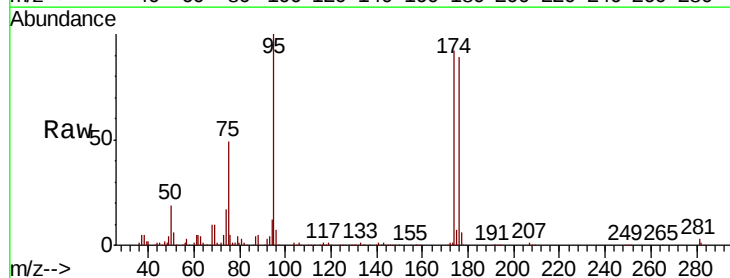
Instrument :  
MSVOA\_D  
ClientSampleId :

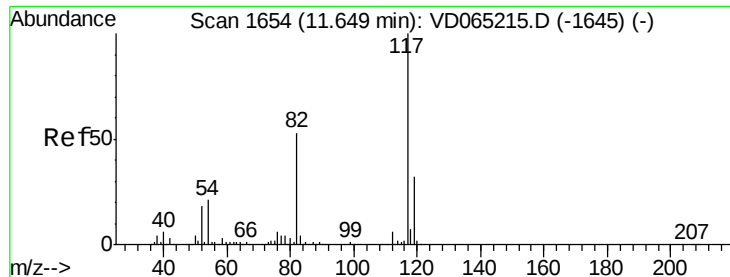
Tot Ion: 98 Resp: 1184138  
Ion Ratio Lower Upper  
98 100  
100 65.4 52.0 78.0



#62  
4-Bromofluorobenzene  
Concen: 48.250 ug/l  
RT: 12.64 min Scan# 1823  
Delta R.T. 0.01 min  
Lab File: VD065315.D  
Acq: 25 Feb 2020 18:23

Tgt Ion: 95 Resp: 350914  
Ion Ratio Lower Upper  
95 100  
174 89.8 0.0 178.0  
176 86.9 0.0 174.4

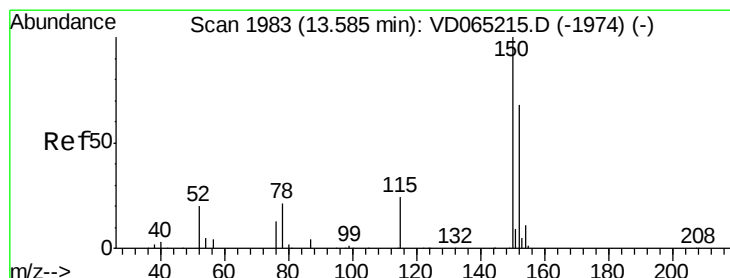
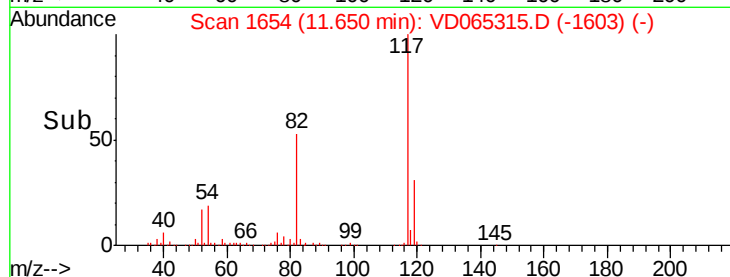
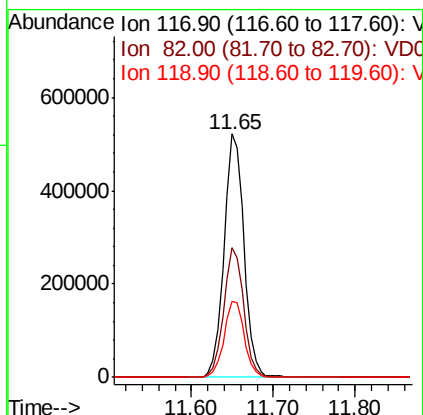
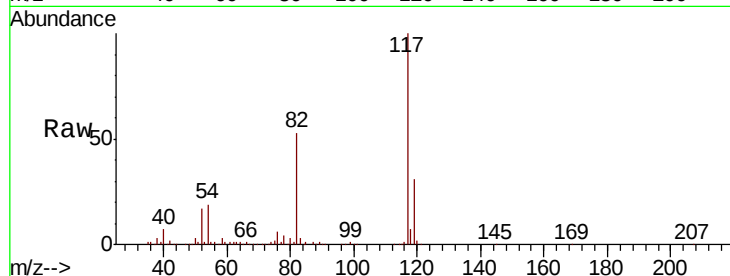




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065315.D  
Acq: 25 Feb 2020 18:23

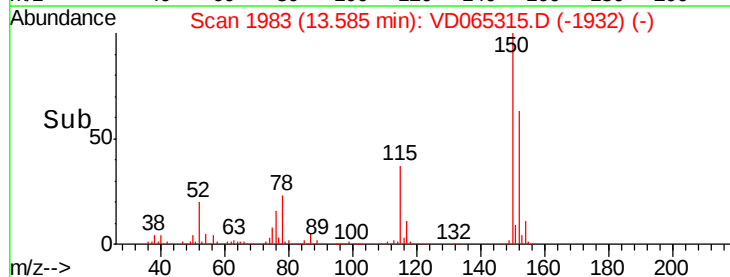
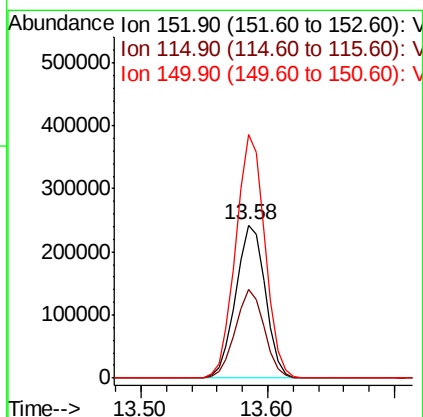
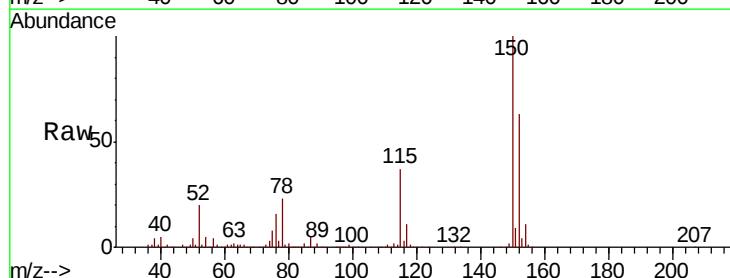
Instrument :  
MSVOA\_D  
ClientSampleId :

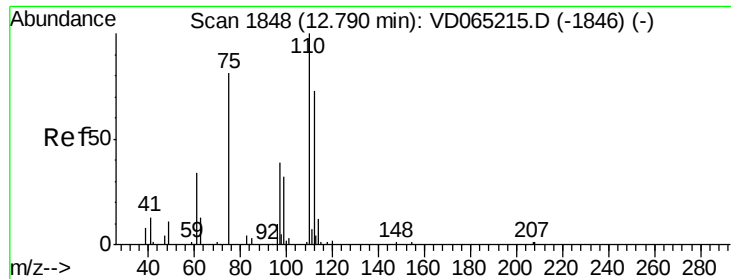
Tot Ion:117 Resp: 881839  
Ion Ratio Lower Upper  
117 100  
82 53.5 42.7 64.1  
119 31.1 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD065315.D  
Acq: 25 Feb 2020 18:23

Tgt Ion:152 Resp: 390938  
Ion Ratio Lower Upper  
152 100  
115 56.7 27.6 82.8  
150 157.3 0.0 347.4





#76

1,2,3-Trichloropropane

Concen: 50.686 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. -0.15 min

Lab File: VD065315.D

Acq: 25 Feb 2020 18:23

Instrument :

MSVOA\_D

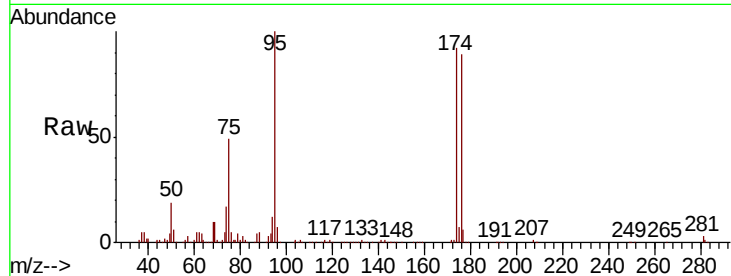
ClientSampleId :

Tot Ion: 75 Resp: 168593

Ion Ratio Lower Upper

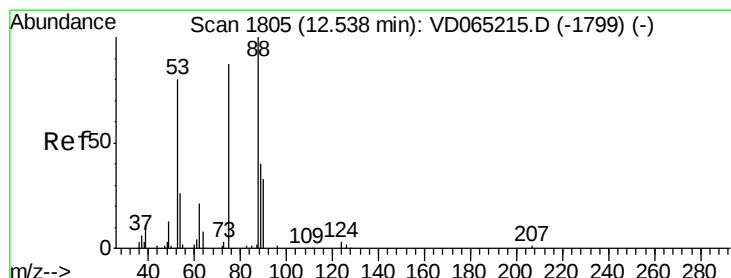
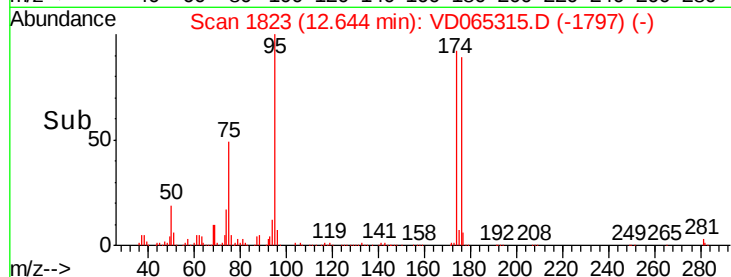
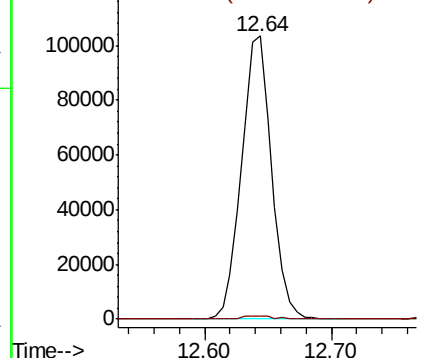
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 77.00 (76.70 to 77.70): VDC



#81

trans-1,4-Dichloro-2-butene

Concen: 109.440 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD065315.D

Acq: 25 Feb 2020 18:23

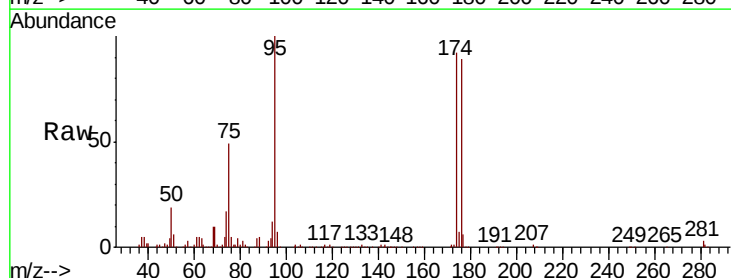
Tgt Ion: 75 Resp: 168593

Ion Ratio Lower Upper

75 100

53 0.1 77.6 116.4#

89 0.0 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

