

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022420\  
 Data File : VD065291.D  
 Acq On : 24 Feb 2020 13:34  
 Operator : VA/SY  
 Sample : L1635-08RE  
 Misc : 5.90G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Feb 25 01:22:08 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

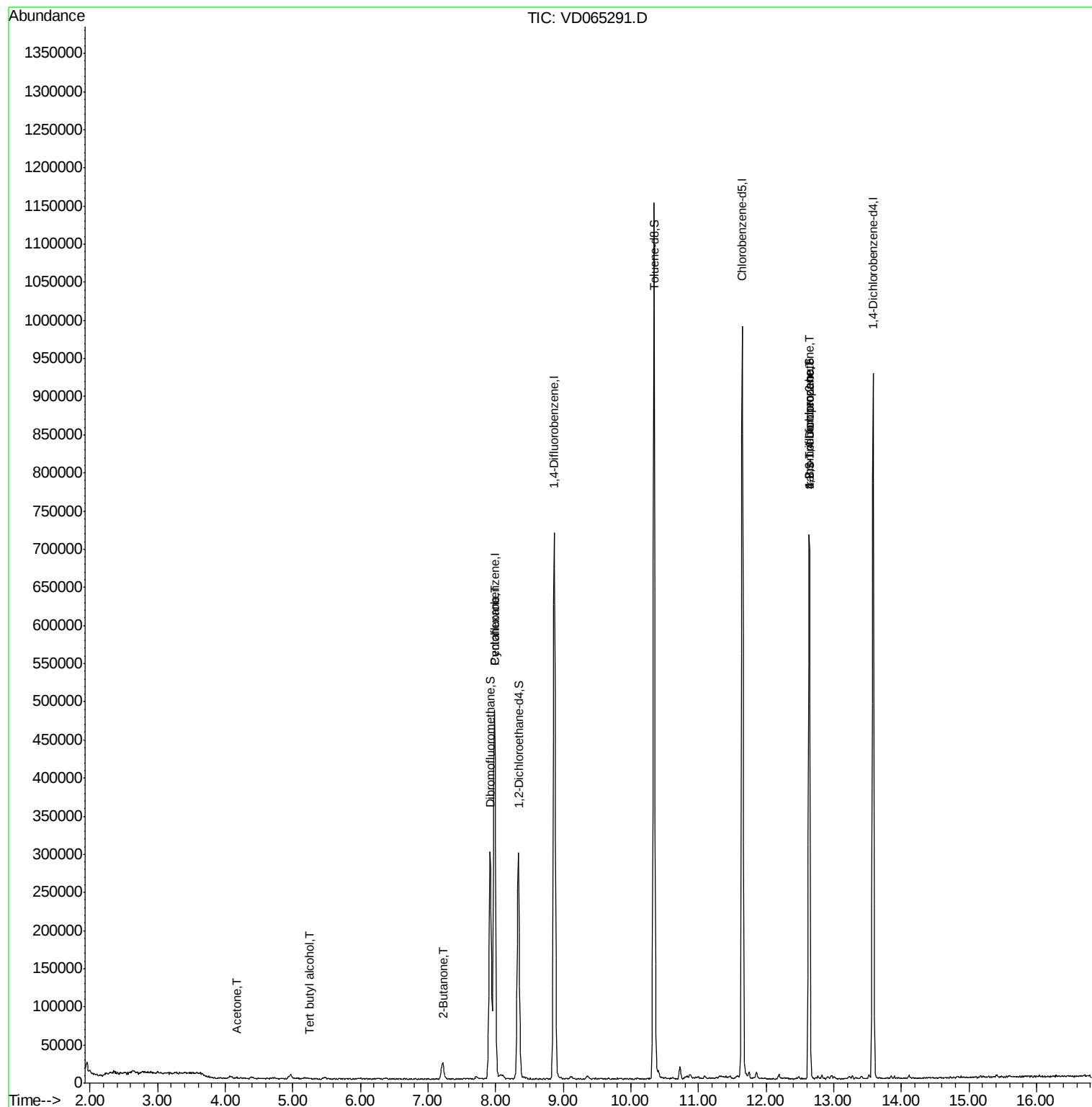
| Internal Standards             | R.T.  | QIon | Response | Conc      | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|-----------|---------|----------|
| 1) Pentafluorobenzene          | 7.98  | 168  | 377107   | 50.00     | ug/l    | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.87  | 114  | 621999   | 50.00     | ug/l    | 0.00     |
| 63) Chlorobenzene-d5           | 11.65 | 117  | 582789   | 50.00     | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.58 | 152  | 249479   | 50.00     | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |           |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.34  | 65   | 236959   | 69.85     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 139.70% |          |
| 35) Dibromofluoromethane       | 7.92  | 113  | 215091   | 56.71     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 113.42% |          |
| 50) Toluene-d8                 | 10.34 | 98   | 753559   | 51.97     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 103.94% |          |
| 62) 4-Bromofluorobenzene       | 12.64 | 95   | 228401   | 49.73     | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =         | 99.46%  |          |
| Target Compounds               |       |      |          |           |         |          |
|                                |       |      |          |           | Qvalue  |          |
| 11) Tert butyl alcohol         | 5.25  | 59   | 332      | 1.638     | ug/l #  | 72       |
| 13) Acrolein                   | 3.94  | 56   | 71       | Below Cal | #       | 39       |
| 16) Acetone                    | 4.16  | 43   | 2204     | 2.658     | ug/l    | 92       |
| 20) Methylene Chloride         | 4.96  | 84   | 3897     | Below Cal | #       | 87       |
| 25) 2-Butanone                 | 7.22  | 43   | 1993     | 1.899     | ug/l #  | 49       |
| 31) Cyclohexane                | 7.98  | 56   | 9577     | 1.436     | ug/l #  | 38       |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 113759   | 53.593    | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 113759   | 115.717   | ug/l #  | 11       |

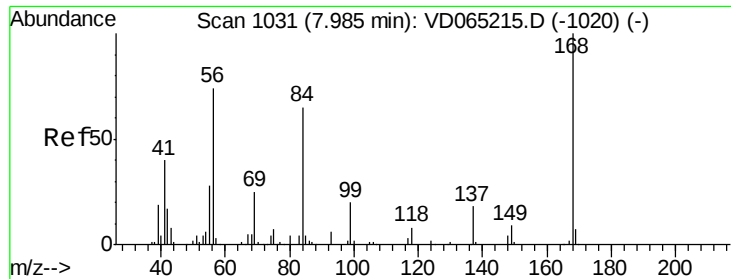
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Operator : VA/SY  
Sample : L1635-08RE  
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Quant Time: Feb 25 01:22:08 2020  
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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: 7.98 min Scan# 1031

Delta R.T. -0.00 min

Lab File: VD065291.D

Acq: 24 Feb 2020 13:34

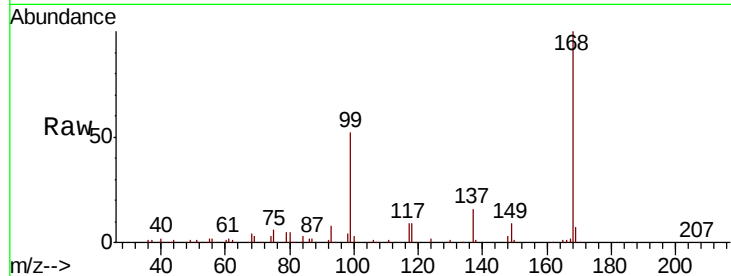
Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:168 Resp: 377107

Ion Ratio Lower Upper

168 100

99 51.9 41.4 62.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

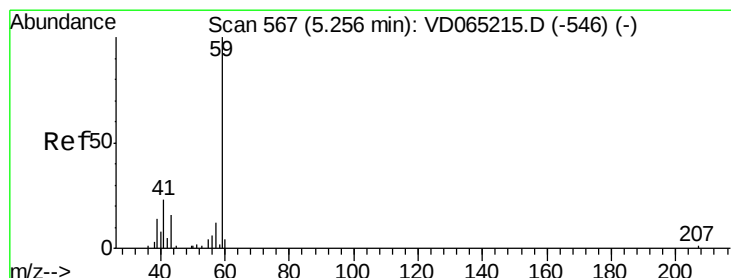
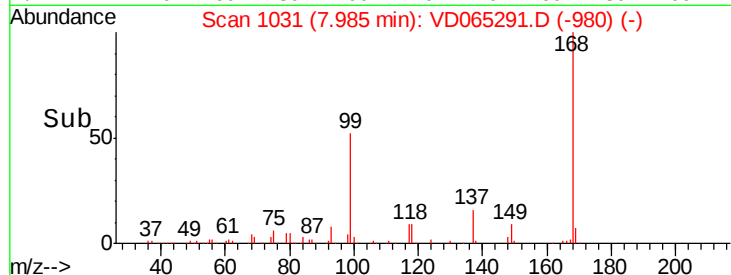
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 1.638 ug/l

RT: 5.25 min Scan# 566

Delta R.T. -0.01 min

Lab File: VD065291.D

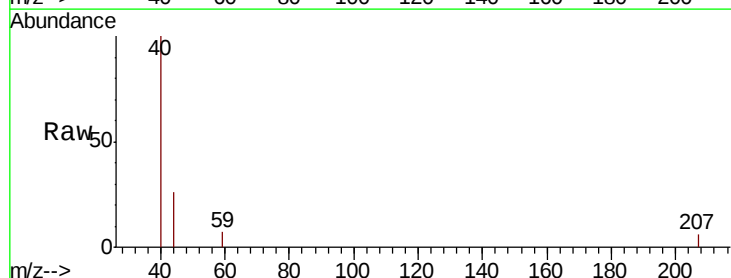
Acq: 24 Feb 2020 13:34

Tgt Ion: 59 Resp: 332

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

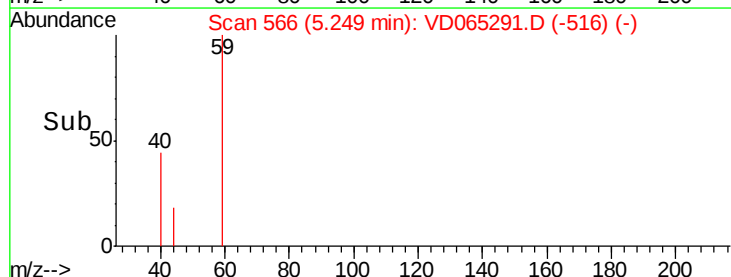
300

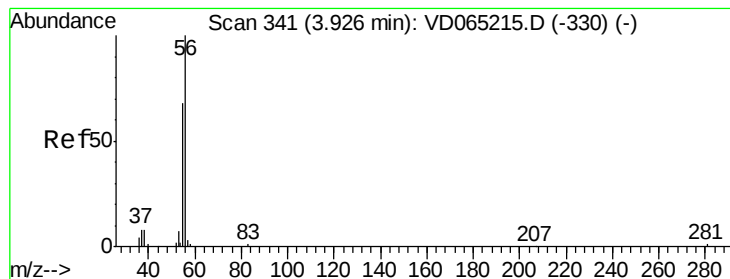
200

100

0

Time-->





#13

Acrolein

Concen: Below Cal

RT: 3.94 min Scan# 343

Delta R.T. 0.01 min

Lab File: VD065291.D

Acq: 24 Feb 2020 13:34

Instrument :

MSVOA\_D

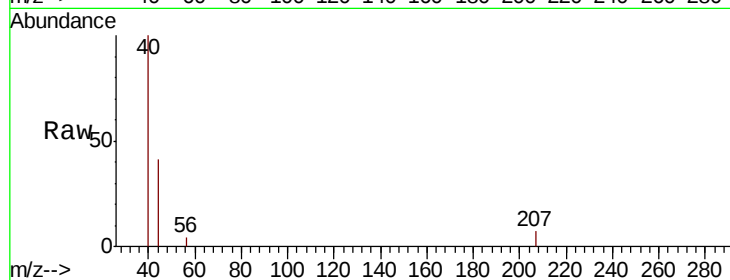
ClientSampled :

Tot Ion: 56 Resp: 71

Ion Ratio Lower Upper

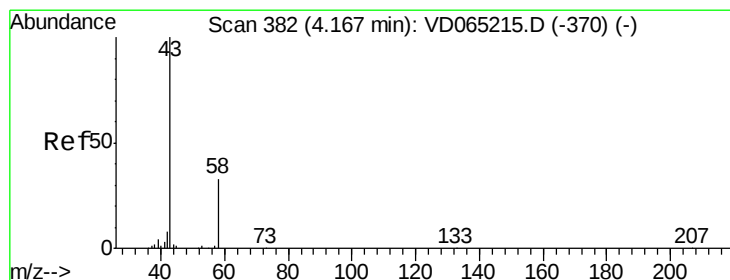
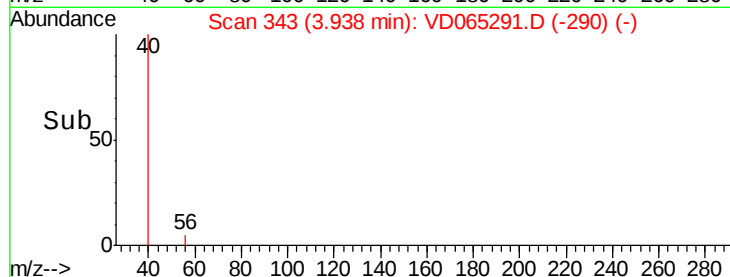
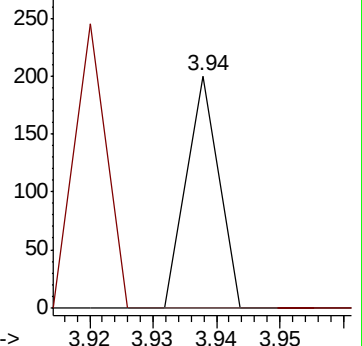
56 100

55 121.1 56.6 85.0#



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC



#16

Acetone

Concen: 2.658 ug/l

RT: 4.16 min Scan# 381

Delta R.T. -0.01 min

Lab File: VD065291.D

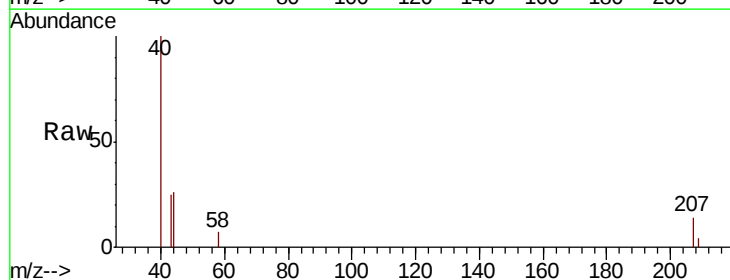
Acq: 24 Feb 2020 13:34

Tgt Ion: 43 Resp: 2204

Ion Ratio Lower Upper

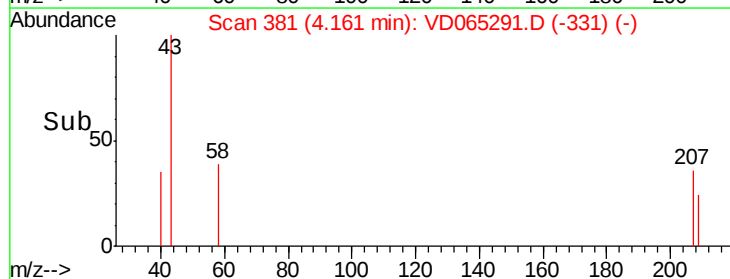
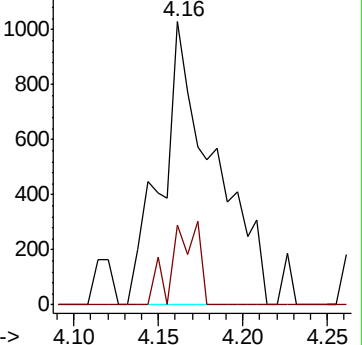
43 100

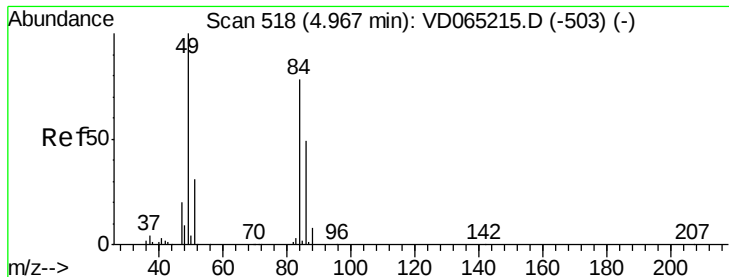
58 28.2 26.2 39.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



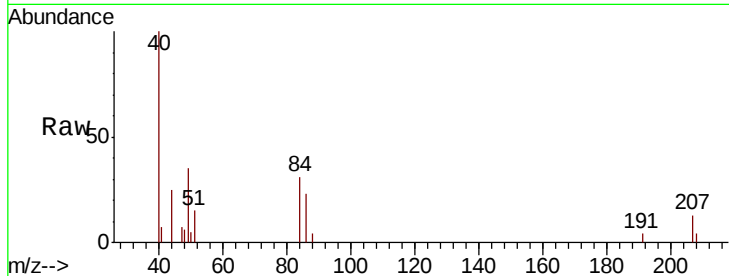


#20

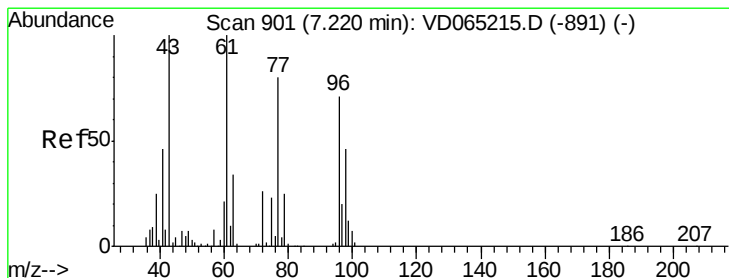
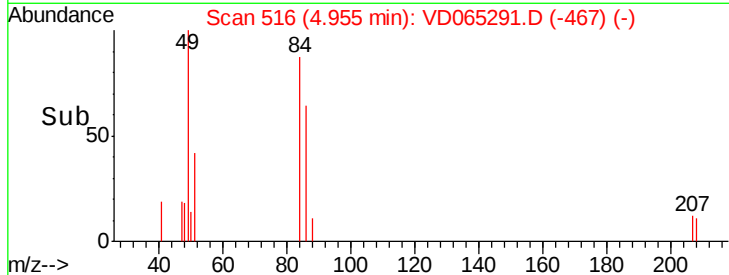
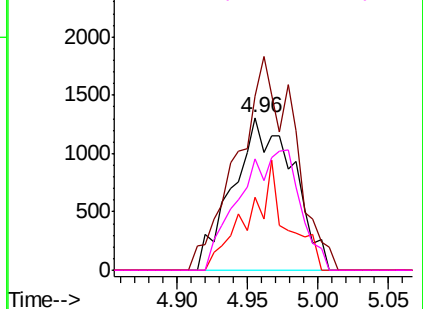
Methylene Chloride  
 Concen: Below Cal  
 RT: 4.96 min Scan# 516  
 Delta R.T. -0.01 min  
 Lab File: VD065291.D  
 Acq: 24 Feb 2020 13:34

Instrument :  
 MSVOA\_D  
 ClientSampleID :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 84      | 100   |       |       |
| 49      | 114.5 | 103.1 | 154.7 |
| 51      | 47.9  | 31.7  | 47.5# |
| 86      | 73.4  | 50.9  | 76.3  |



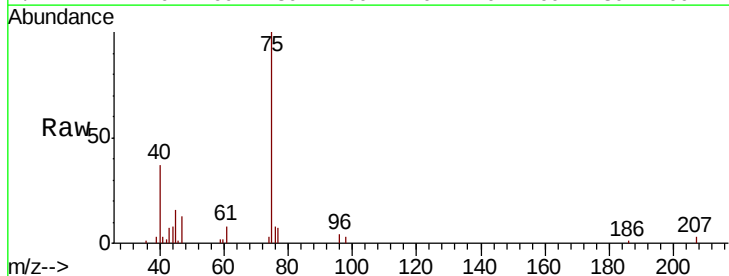
Abundance Ion 83.90 (83.60 to 84.60): VDC  
 Ion 48.90 (48.60 to 49.60): VDC  
 Ion 50.90 (50.60 to 51.60): VDC  
 Ion 85.90 (85.60 to 86.60): VDC



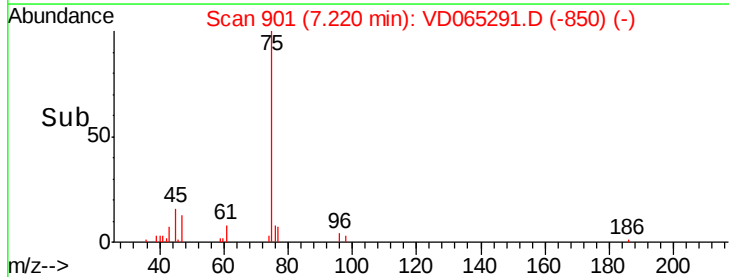
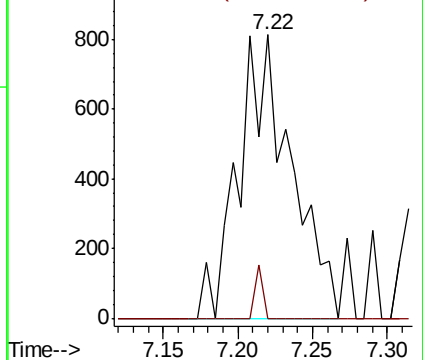
#25

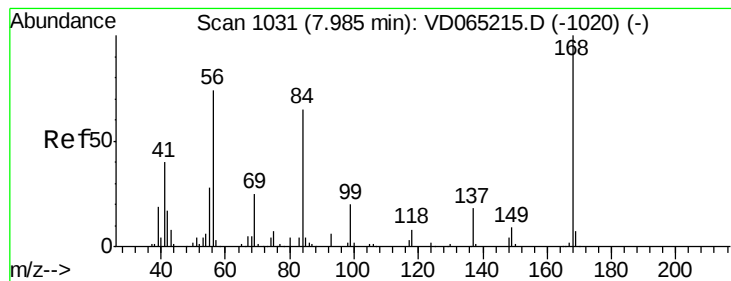
2-Butanone  
 Concen: 1.899 ug/l  
 RT: 7.22 min Scan# 901  
 Delta R.T. -0.00 min  
 Lab File: VD065291.D  
 Acq: 24 Feb 2020 13:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 43      | 100   |       |       |
| 72      | 0.0   | 20.9  | 31.3# |



Abundance Ion 43.00 (42.70 to 43.70): VDC  
 Ion 72.00 (71.70 to 72.70): VDC





#31

Cyclohexane

Concen: 1.436 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.01 min

Lab File: VD065291.D

Acq: 24 Feb 2020 13:34

Instrument :

MSVOA\_D

ClientSampled :

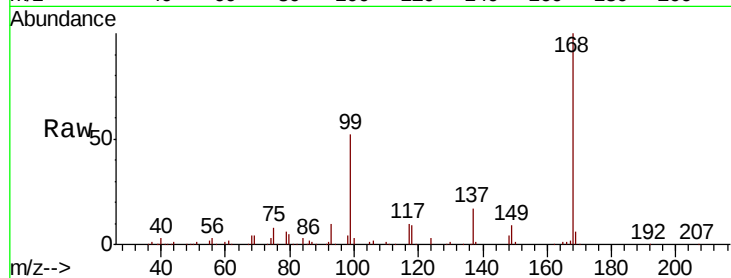
Tot Ion: 56 Resp: 9577

Ion Ratio Lower Upper

56 100

69 137.5 27.4 41.0#

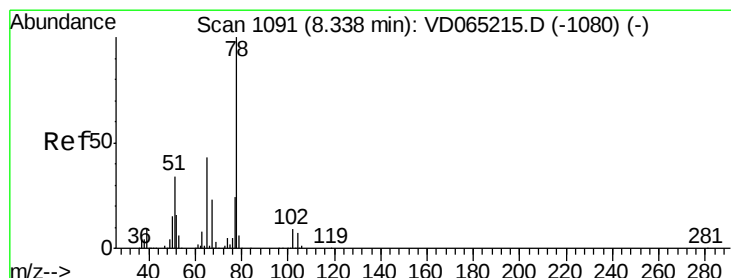
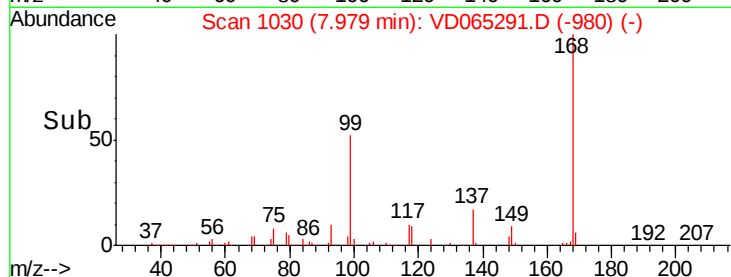
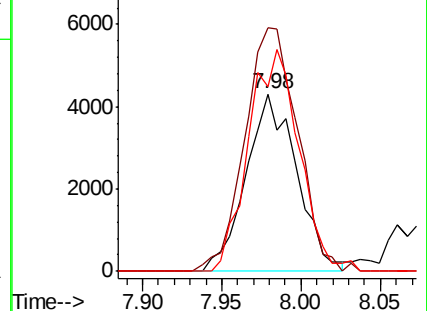
84 104.4 71.1 106.7



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: 69.848 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. -0.00 min

Lab File: VD065291.D

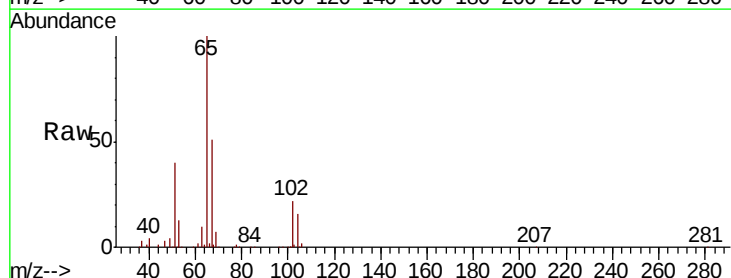
Acq: 24 Feb 2020 13:34

Tgt Ion: 65 Resp: 236959

Ion Ratio Lower Upper

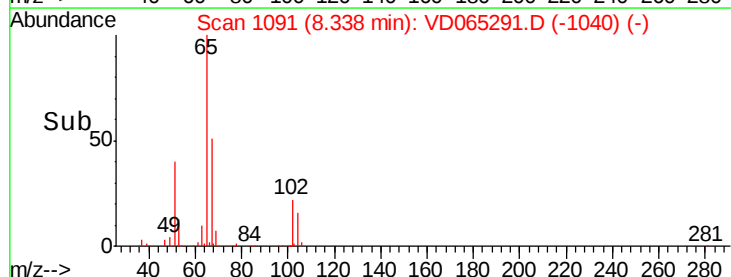
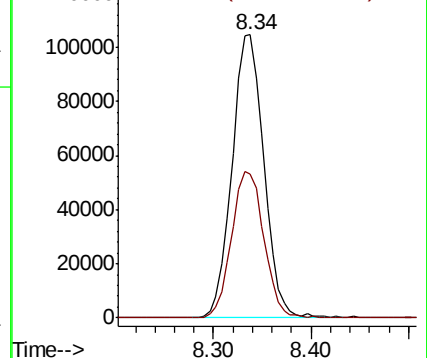
65 100

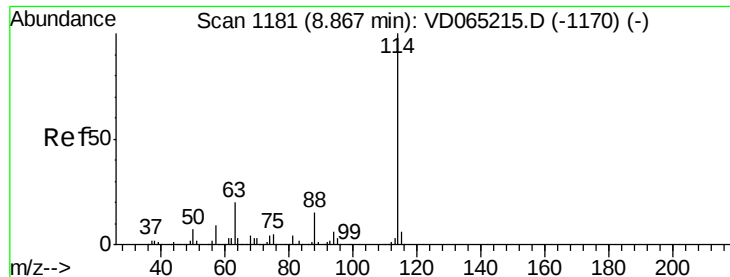
67 52.7 0.0 106.8



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC

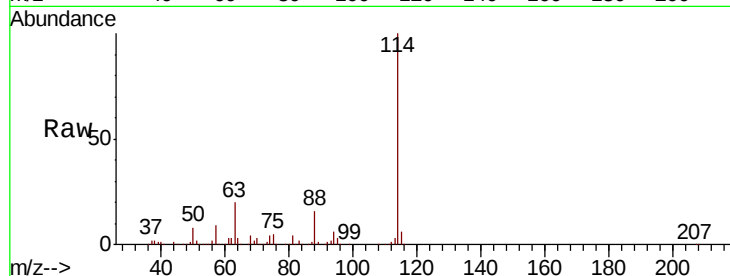




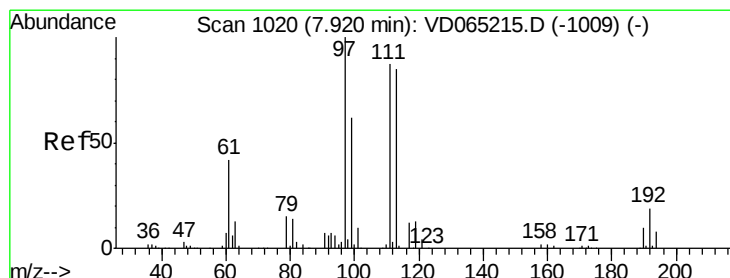
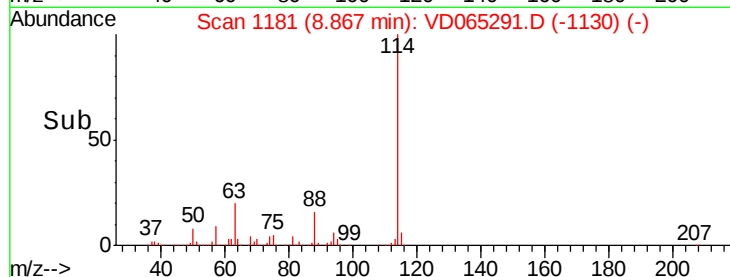
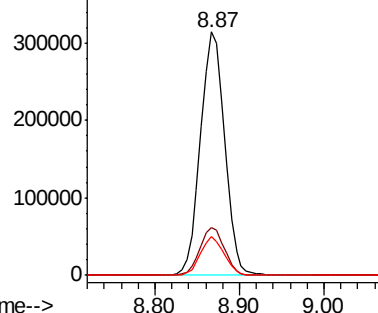
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. -0.00 min  
 Lab File: VD065291.D  
 Acq: 24 Feb 2020 13:34

Instrument :  
 MSVOA\_D  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 19.7  | 0.0   | 39.4  |
| 88      | 15.7  | 0.0   | 30.4  |

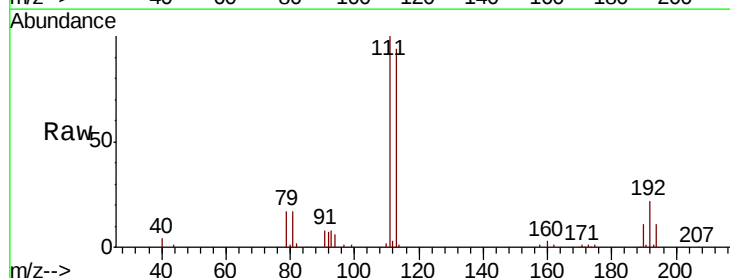


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): V  
 Ion 87.90 (87.60 to 88.60): V

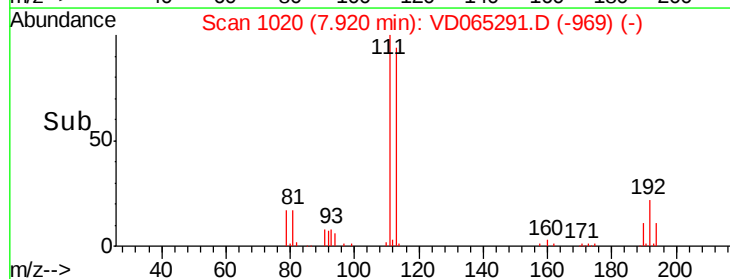
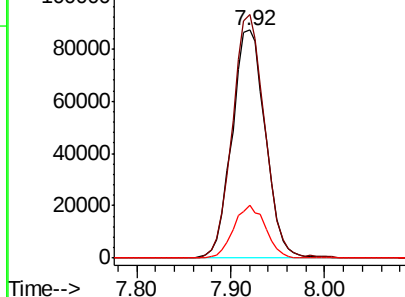


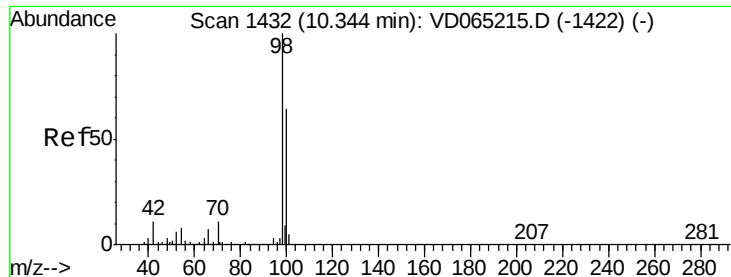
#35  
 Dibromofluoromethane  
 Concen: 56.714 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. -0.00 min  
 Lab File: VD065291.D  
 Acq: 24 Feb 2020 13:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.5 | 82.9  | 124.3 |
| 192     | 22.2  | 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

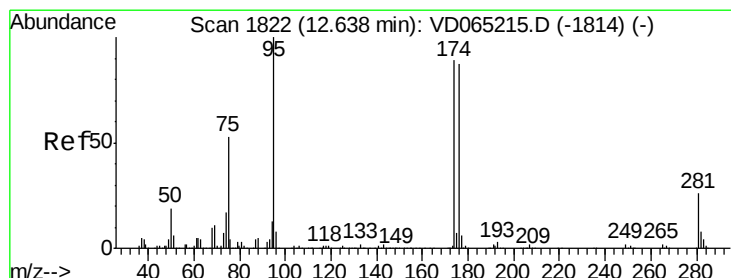
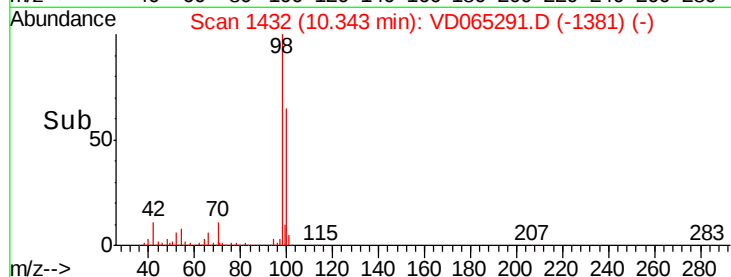
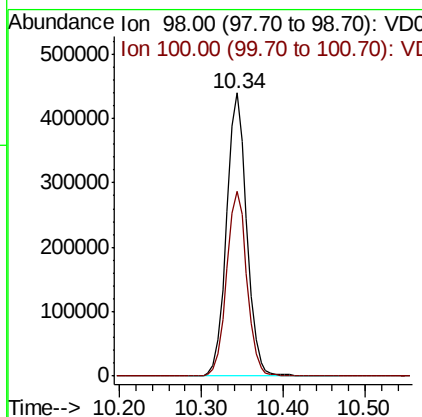
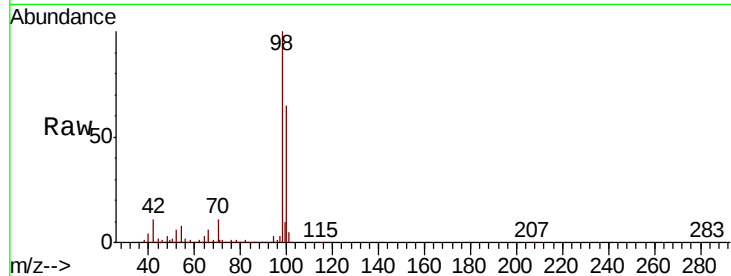




#50  
Toluene-d8  
Concen: 51.974 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. -0.00 min  
Lab File: VD065291.D  
Acq: 24 Feb 2020 13:34

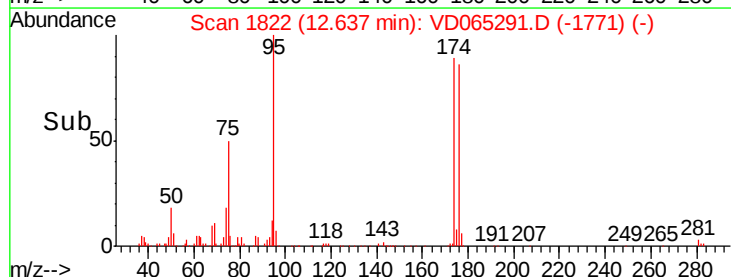
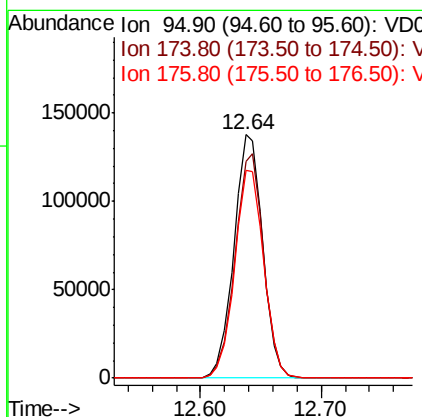
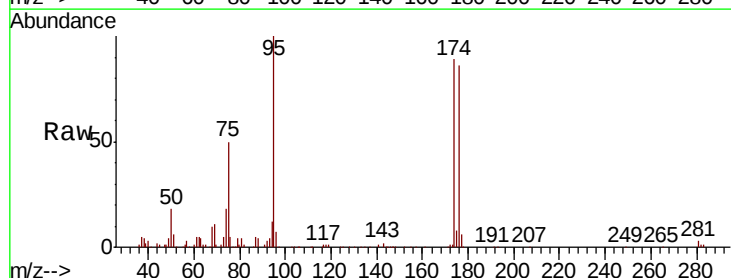
Instrument :  
MSVOA\_D  
ClientSampleId :

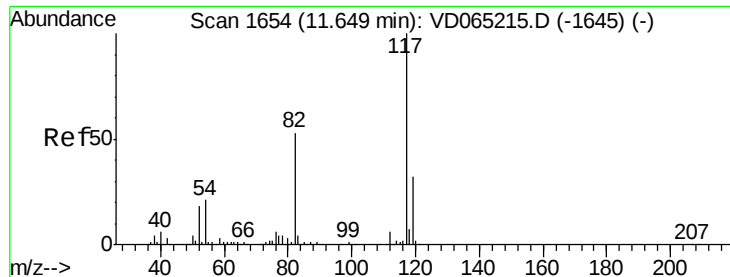
Tot Ion: 98 Resp: 753559  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.0 78.0



#62  
4-Bromofluorobenzene  
Concen: 49.727 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. -0.00 min  
Lab File: VD065291.D  
Acq: 24 Feb 2020 13:34

Tgt Ion: 95 Resp: 228401  
Ion Ratio Lower Upper  
95 100  
174 91.6 0.0 178.0  
176 86.9 0.0 174.4

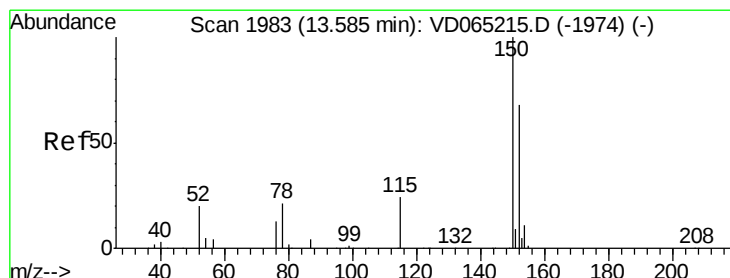
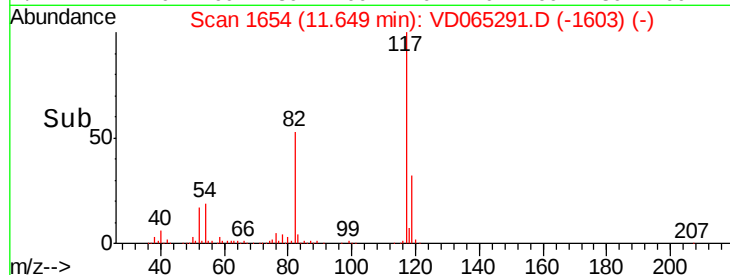
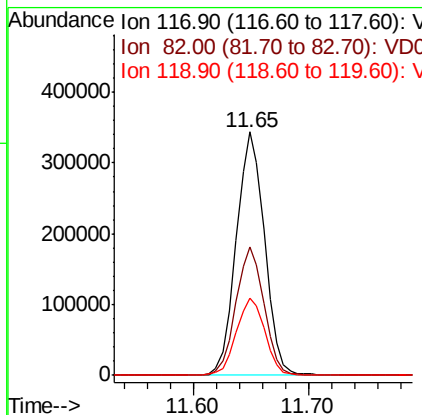
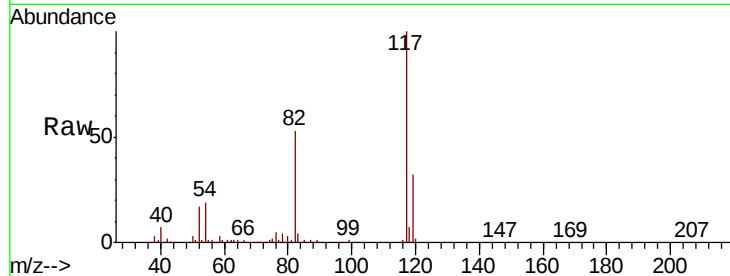




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. -0.00 min  
Lab File: VD065291.D  
Acq: 24 Feb 2020 13:34

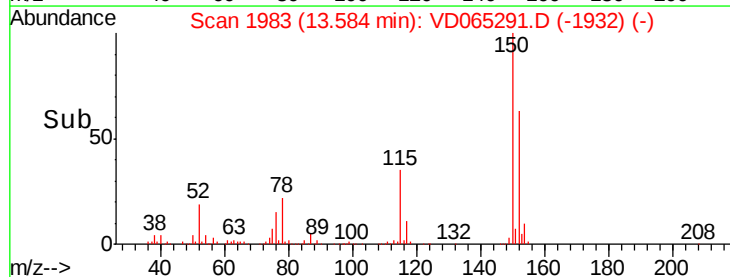
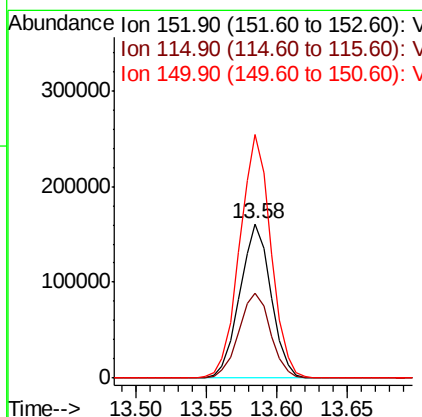
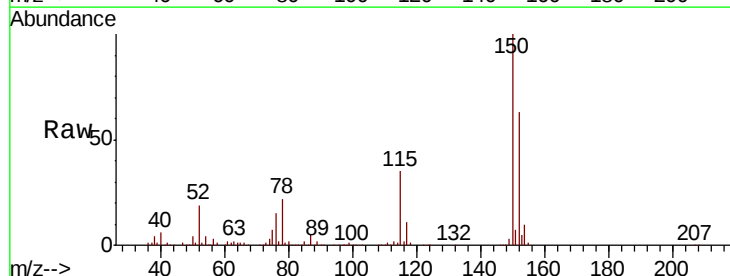
Instrument :  
MSVOA\_D  
ClientSampleId :

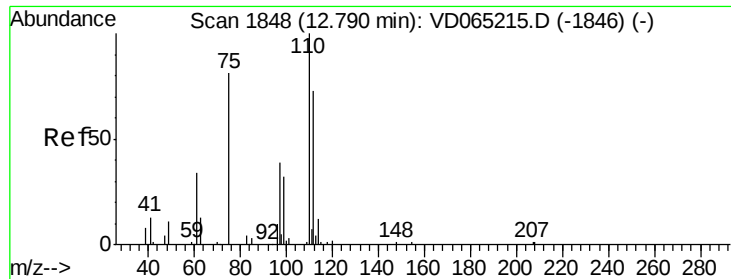
Tot Ion:117 Resp: 582789  
Ion Ratio Lower Upper  
117 100  
82 52.7 42.7 64.1  
119 31.6 25.5 38.3



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. -0.00 min  
Lab File: VD065291.D  
Acq: 24 Feb 2020 13:34

Tgt Ion:152 Resp: 249479  
Ion Ratio Lower Upper  
152 100  
115 56.1 27.6 82.8  
150 157.1 0.0 347.4





#76

1,2,3-Trichloropropane

Concen: 53.593 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065291.D

Acq: 24 Feb 2020 13:34

Instrument :

MSVOA\_D

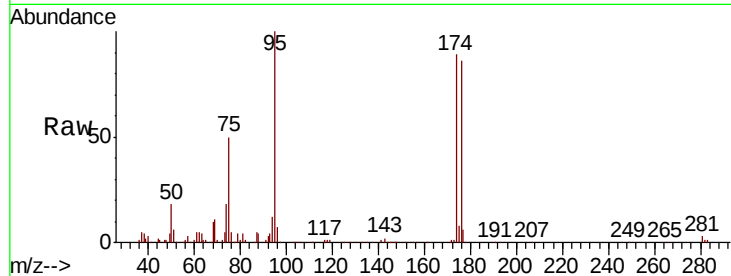
ClientSampleId :

Tot Ion: 75 Resp: 113759

Ion Ratio Lower Upper

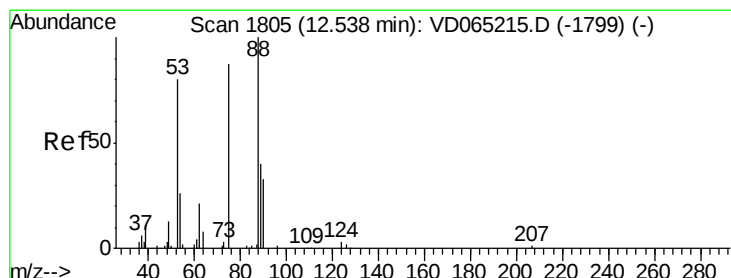
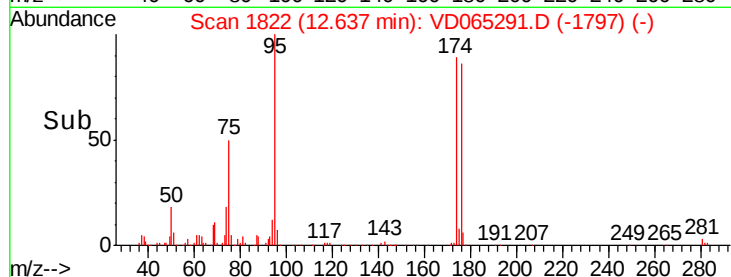
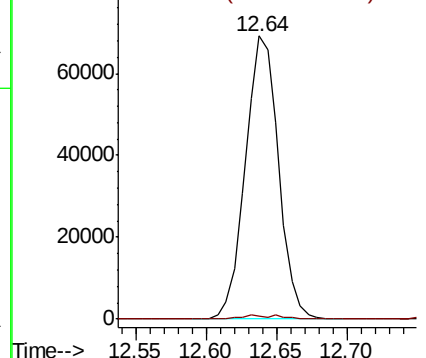
75 100

77 0.9 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: 115.717 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065291.D

Acq: 24 Feb 2020 13:34

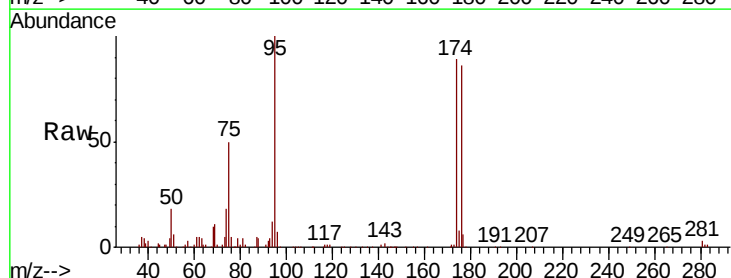
Tgt Ion: 75 Resp: 113759

Ion Ratio Lower Upper

75 100

53 0.1 77.6 116.4#

89 0.3 37.2 55.8#



Abundance Ion 74.90 (74.60 to 75.60): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 88.90 (88.60 to 89.60): VDC

