

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD022520\  
 Data File : VD065310.D  
 Acq On : 25 Feb 2020 16:00  
 Operator : VA/SY  
 Sample : L1681-02  
 Misc : 6.55G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Feb 25 23:39:02 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  | 473818   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 818053   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 753417   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 355248   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.34  | 65   | 270451   | 63.45 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 126.90% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 273478   | 54.83 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.66% |          |
| 50) Toluene-d8              | 10.34 | 98   | 1002831  | 52.59 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.18% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 319448   | 52.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.76% |          |

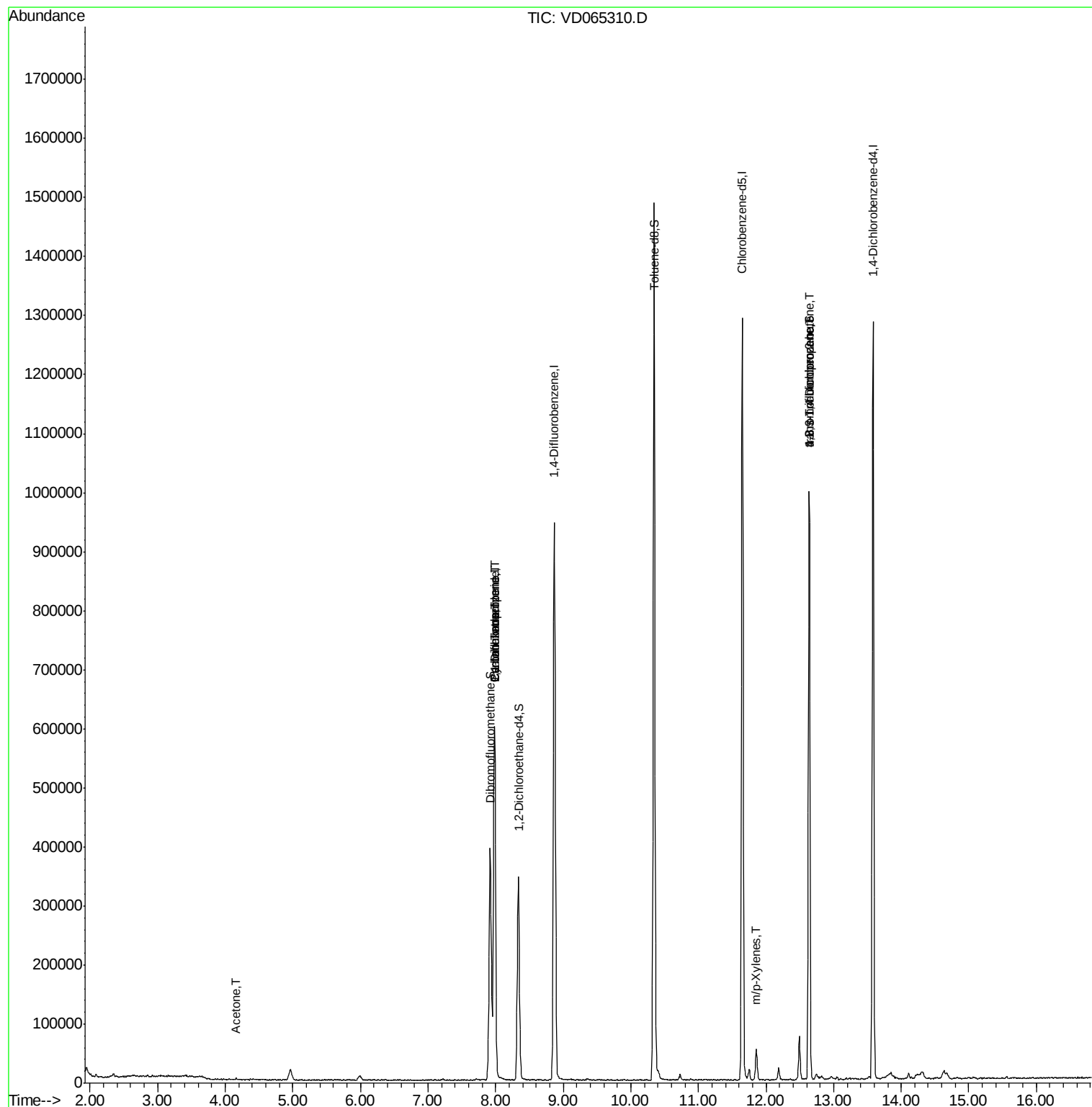
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 13) Acrolein                   | 3.66  | 56   | 77       | Below Cal |        | 84     |
| 16) Acetone                    | 4.17  | 43   | 2433     | 2.335     | ug/l   | 96     |
| 20) Methylene Chloride         | 4.97  | 84   | 13433    | Below Cal |        | 93     |
| 31) Cyclohexane                | 7.98  | 56   | 9879     | 1.179     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 33636    | 4.226     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 44152    | 5.449     | ug/l # | 17     |
| 68) m/p-Xylenes                | 11.86 | 106  | 16082    | 1.587     | ug/l   | 98     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 156709   | 51.847    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 156709   | 111.946   | ug/l # | 11     |

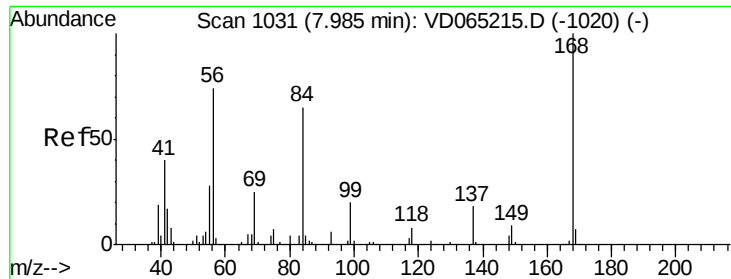
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD022520\  
Data File : VD065310.D  
Acq On : 25 Feb 2020 16:00  
Operator : VA/SY  
Sample : L1681-02  
Misc : 6.55G/5.00ml/MSVOA D/SOIL  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Feb 25 23:39:02 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: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD065310.D

Acq: 25 Feb 2020 16:00

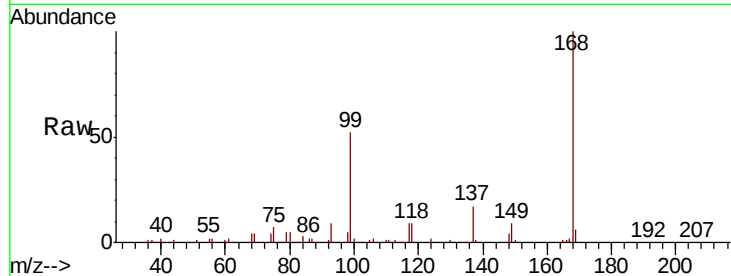
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 473818

Ion Ratio Lower Upper

168 100

99 52.2 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

200000

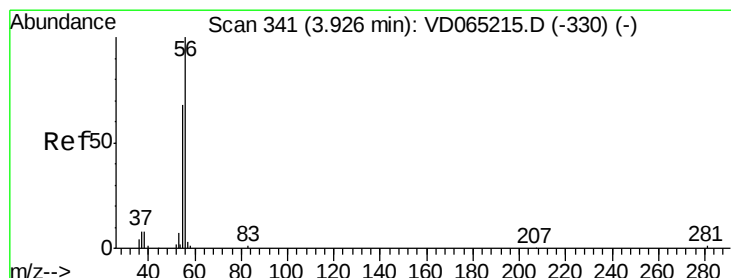
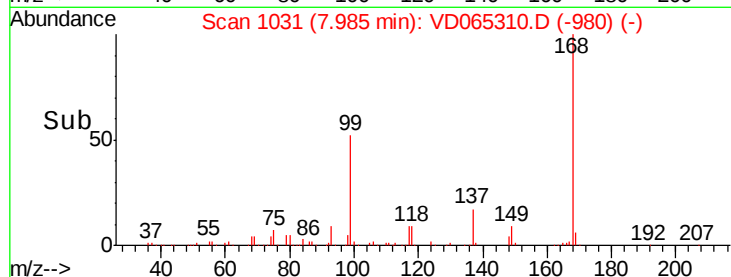
150000

100000

50000

0

Time-->



#13

Acrolein

Concen: Below Cal

RT: 3.66 min Scan# 296

Delta R.T. -0.26 min

Lab File: VD065310.D

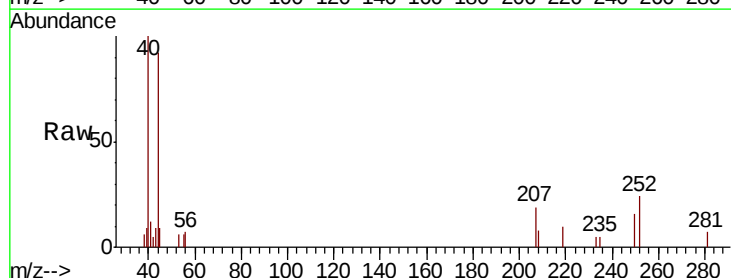
Acq: 25 Feb 2020 16:00

Tgt Ion: 56 Resp: 77

Ion Ratio Lower Upper

56 100

55 84.4 56.6 85.0



Abundance Ion 56.00 (55.70 to 56.70): VDC

Ion 55.00 (54.70 to 55.70): VDC

3.66

250

200

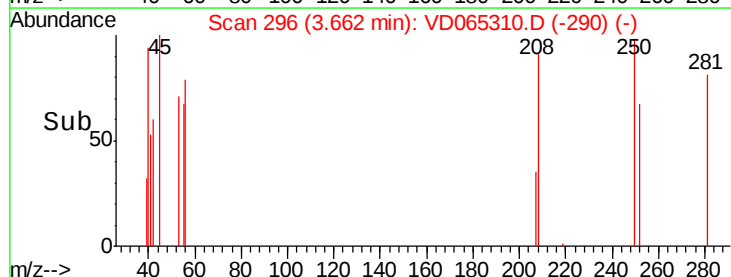
150

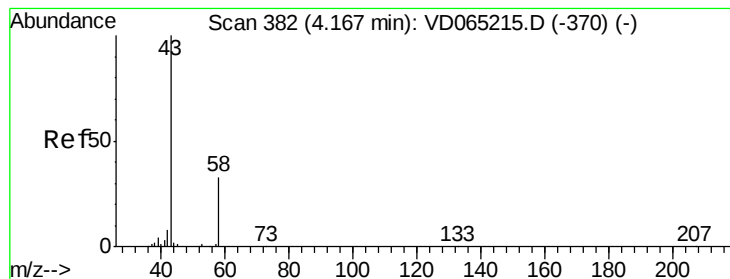
100

50

0

Time-->





#16

Acetone

Concen: 2.335 ug/l

RT: 4.17 min Scan# 382

Delta R.T. 0.00 min

Lab File: VD065310.D

Acq: 25 Feb 2020 16:00

Instrument :

MSVOA\_D

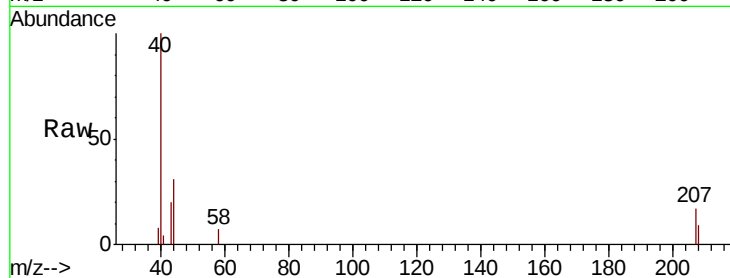
ClientSampleId :

Tot Ion: 43 Resp: 2433

Ion Ratio Lower Upper

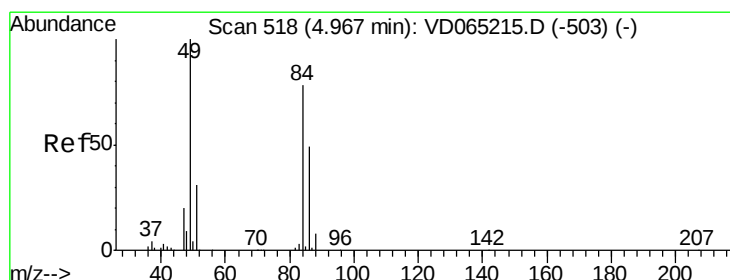
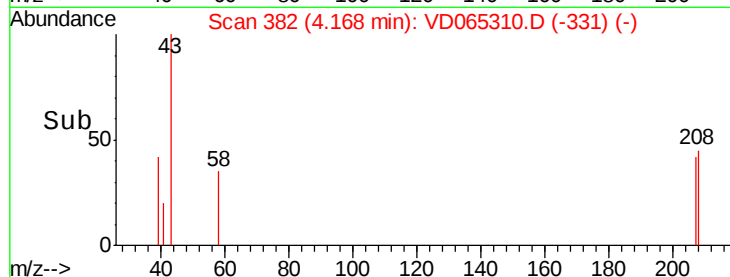
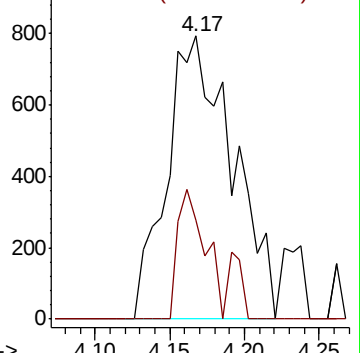
43 100

58 34.9 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: 4.97 min Scan# 518

Delta R.T. 0.00 min

Lab File: VD065310.D

Acq: 25 Feb 2020 16:00

Tgt Ion: 84 Resp: 13433

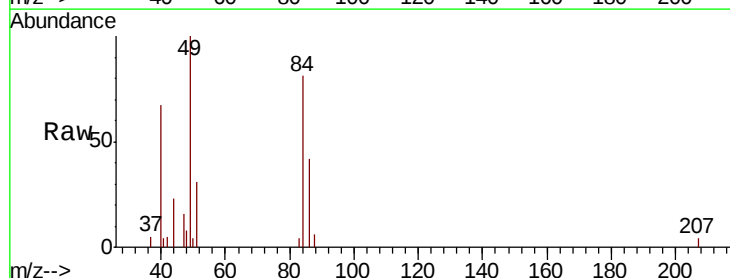
Ion Ratio Lower Upper

84 100

49 123.7 103.1 154.7

51 37.8 31.7 47.5

86 52.4 50.9 76.3

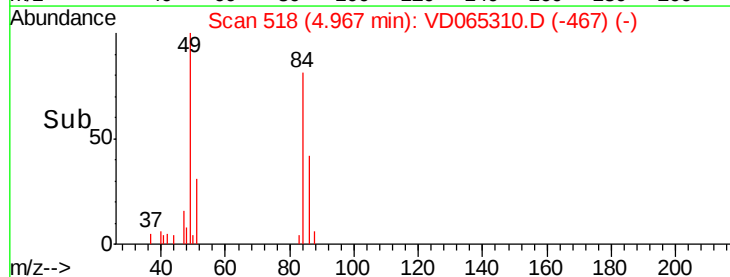
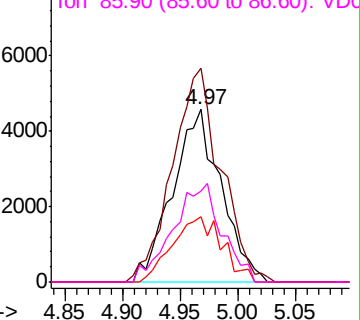


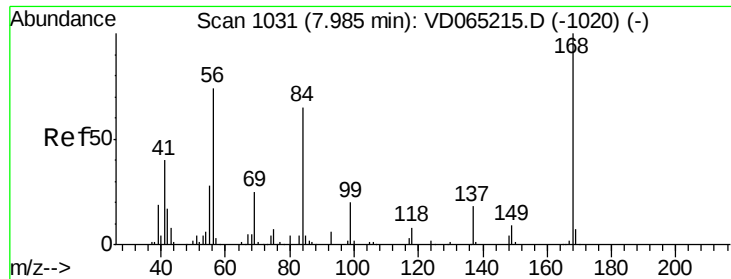
Abundance Ion 83.90 (83.60 to 84.60): VDC

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

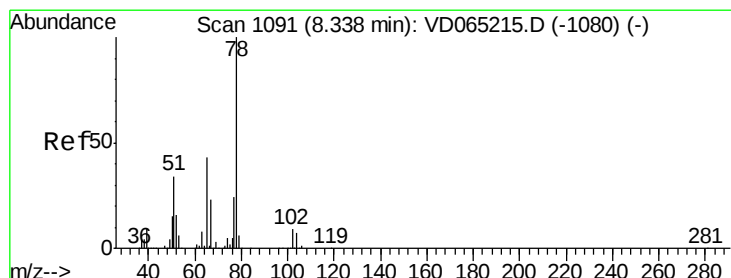
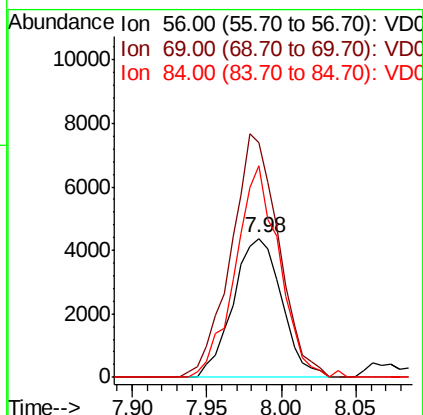
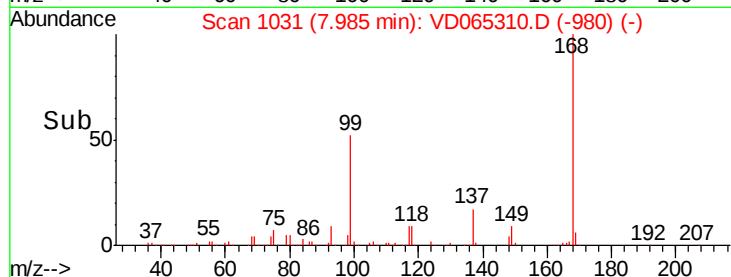
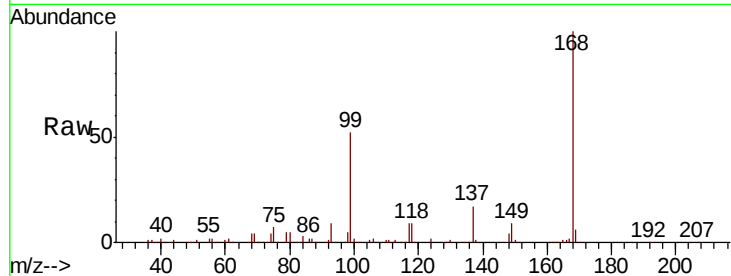




#31  
Cyclohexane  
Concen: 1.179 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD065310.D  
Acq: 25 Feb 2020 16:00

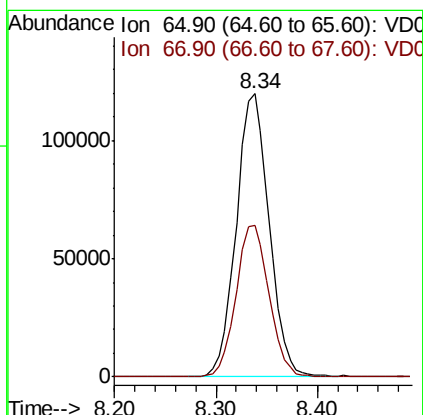
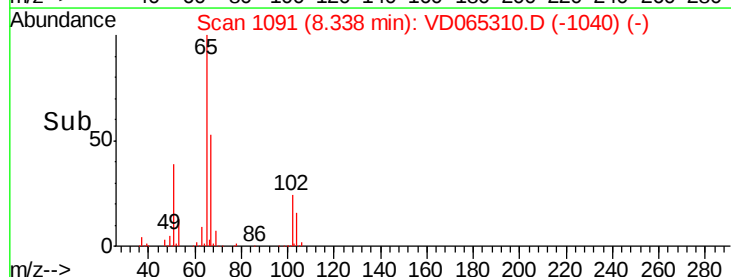
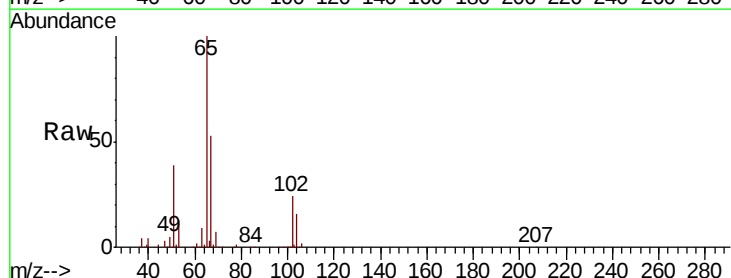
Instrument :  
MSVOA\_D  
ClientSampleId :

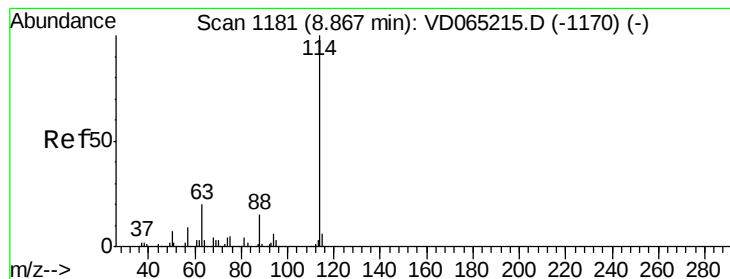
Tot Ion: 56 Resp: 9879  
Ion Ratio Lower Upper  
56 100  
69 168.6 27.4 41.0#  
84 152.1 71.1 106.7#



#33  
1,2-Dichloroethane-d4  
Concen: 63.449 ug/l  
RT: 8.34 min Scan# 1091  
Delta R.T. 0.00 min  
Lab File: VD065310.D  
Acq: 25 Feb 2020 16:00

Tgt Ion: 65 Resp: 270451  
Ion Ratio Lower Upper  
65 100  
67 53.8 0.0 106.8





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD065310.D

Acq: 25 Feb 2020 16:00

Instrument :

MSVOA\_D

ClientSampleId :

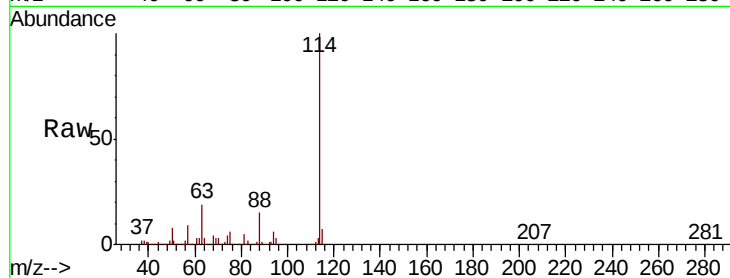
Tot Ion:114 Resp: 818053

Ion Ratio Lower Upper

114 100

63 19.4 0.0 39.4

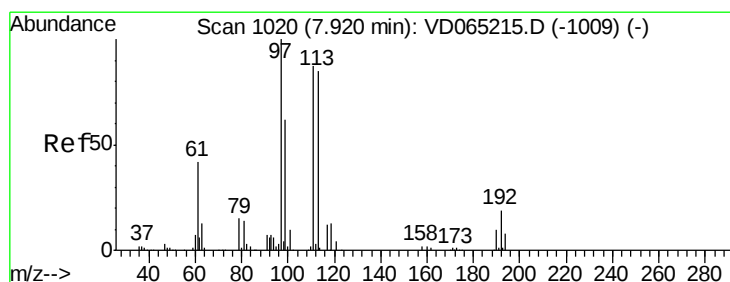
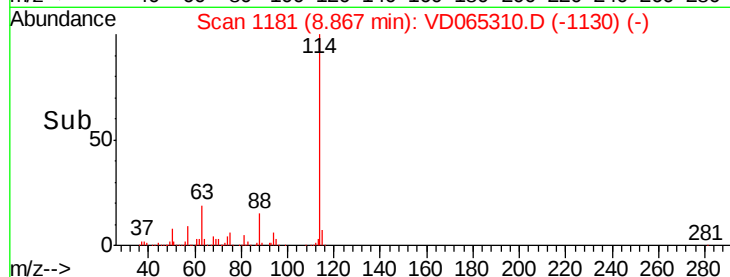
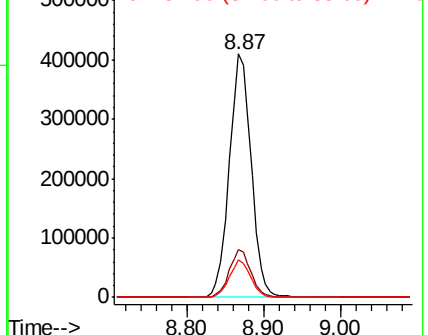
88 15.4 0.0 30.4



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: 54.827 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD065310.D

Acq: 25 Feb 2020 16:00

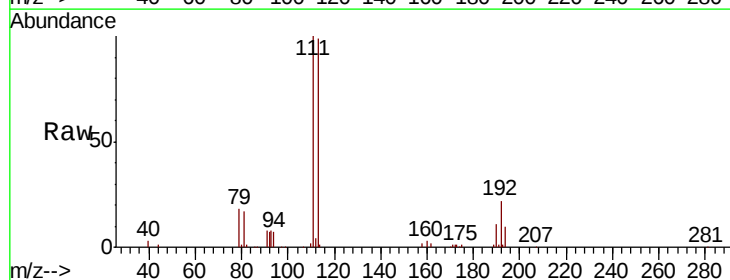
Tgt Ion:113 Resp: 273478

Ion Ratio Lower Upper

113 100

111 102.5 82.9 124.3

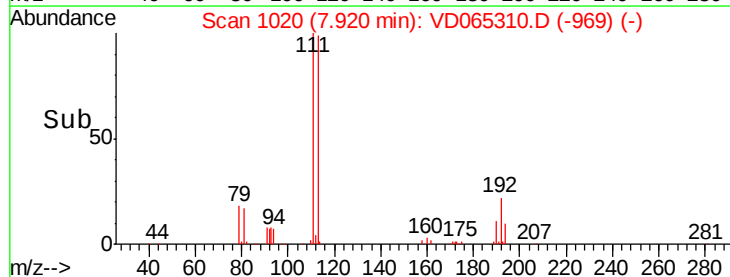
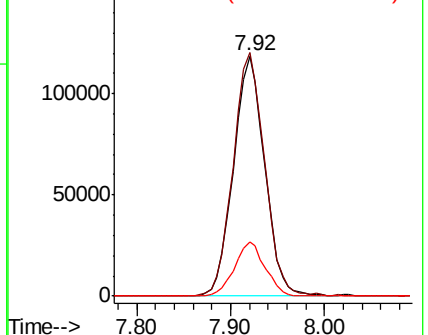
192 22.2 17.3 25.9

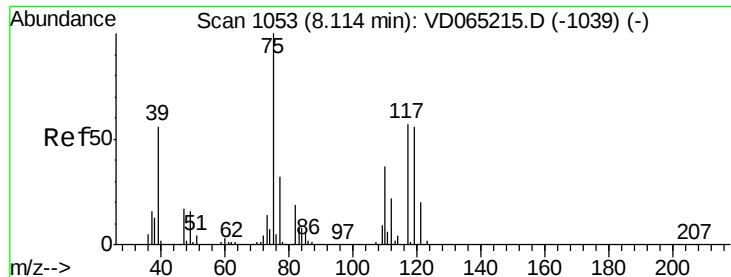


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

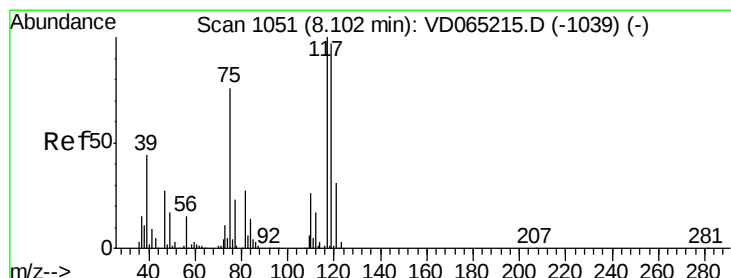
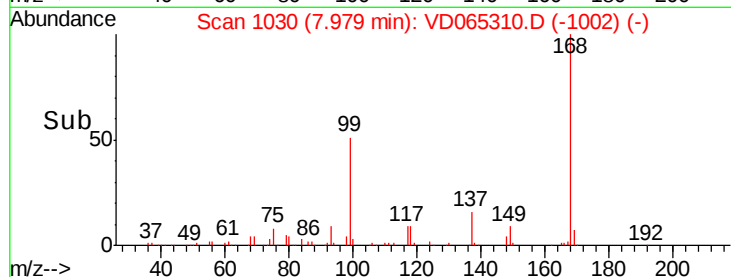
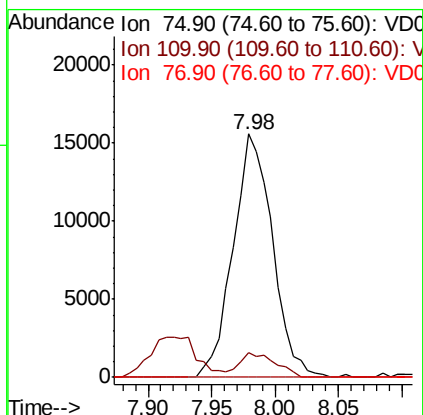
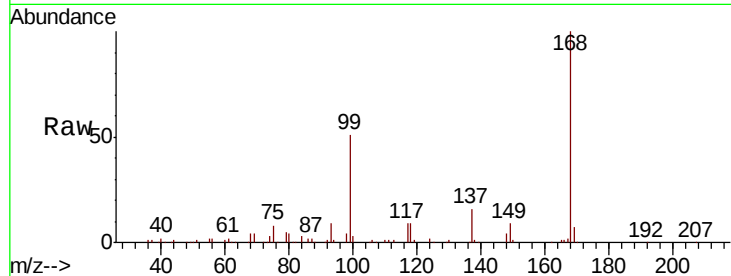




#36  
 1,1-Dichloropropene  
 Concen: 4.226 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.14 min  
 Lab File: VD065310.D  
 Acq: 25 Feb 2020 16:00

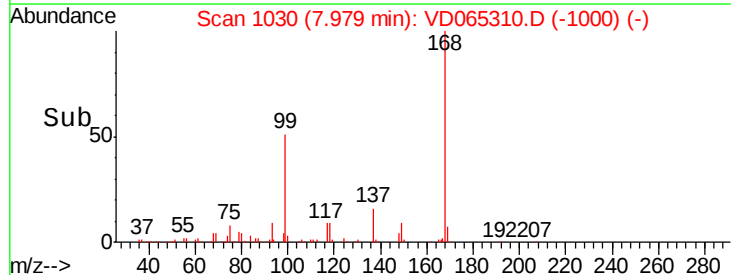
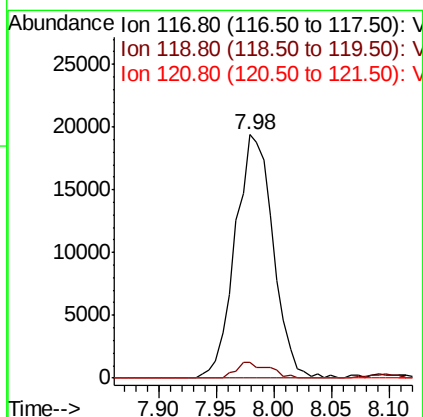
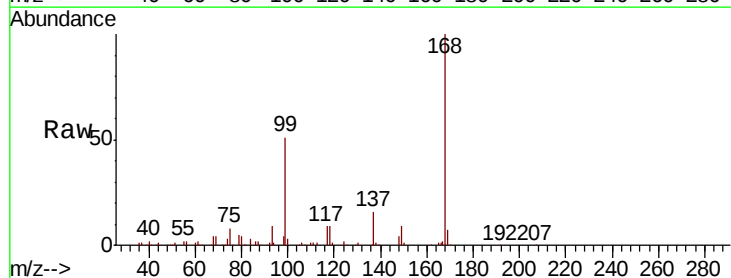
Instrument :  
 MSVOA\_D  
 ClientSampled :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.1   | 17.9  | 53.7# |
| 77      | 0.0   | 25.1  | 37.7# |



#38  
 Carbon Tetrachloride  
 Concen: 5.449 ug/l  
 RT: 7.98 min Scan# 1030  
 Delta R.T. -0.12 min  
 Lab File: VD065310.D  
 Acq: 25 Feb 2020 16:00

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.5   | 77.6  | 116.4# |
| 121     | 0.0   | 24.8  | 37.2#  |

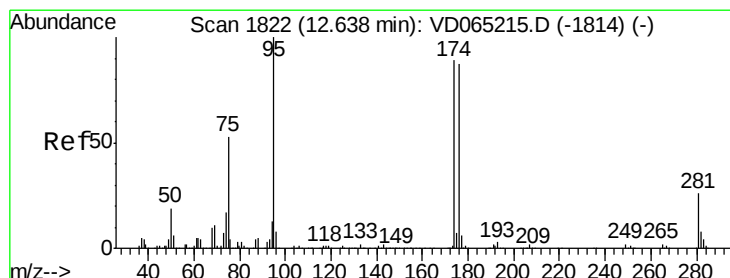
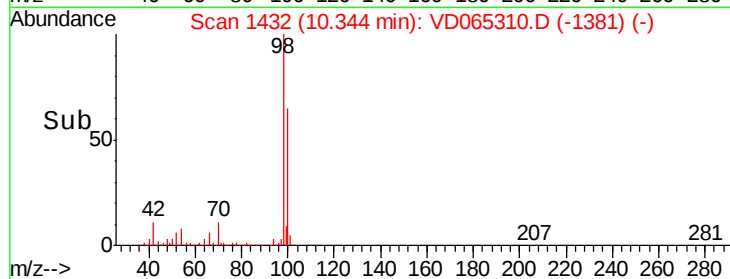
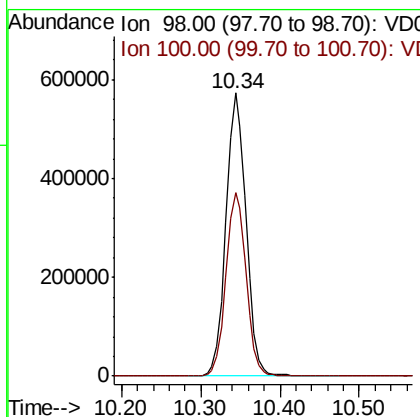
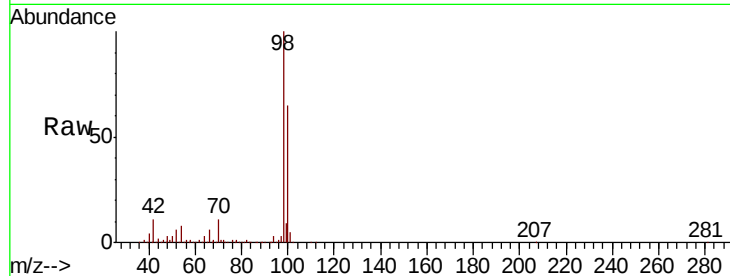




#50  
Toluene-d8  
Concen: 52.590 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD065310.D  
Acq: 25 Feb 2020 16:00

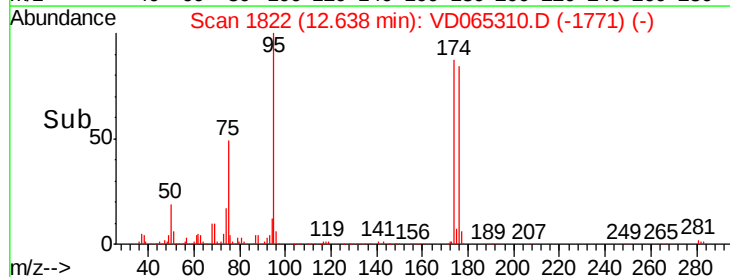
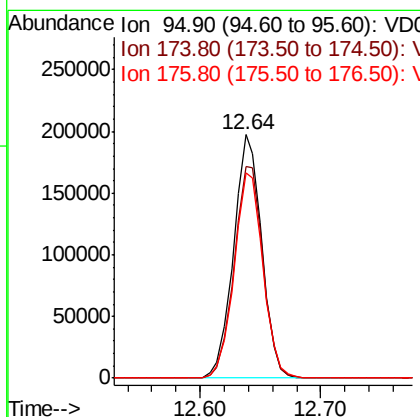
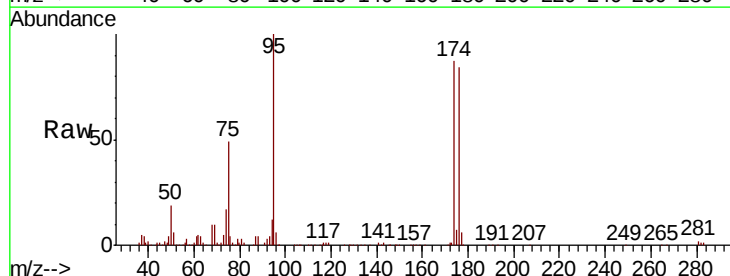
Instrument :  
MSVOA\_D  
ClientSampleId :

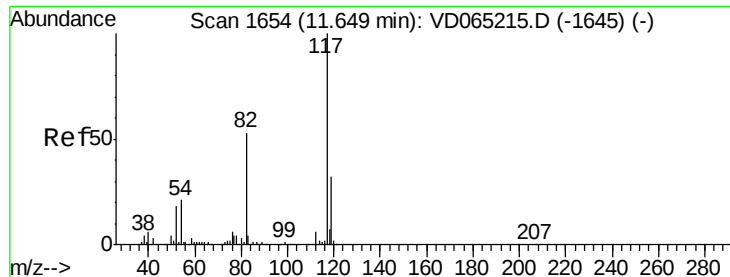
Tot Ion: 98 Resp: 1002831  
Ion Ratio Lower Upper  
98 100  
100 65.2 52.0 78.0



#62  
4-Bromofluorobenzene  
Concen: 52.882 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD065310.D  
Acq: 25 Feb 2020 16:00

Tgt Ion: 95 Resp: 319448  
Ion Ratio Lower Upper  
95 100  
174 89.5 0.0 178.0  
176 86.3 0.0 174.4

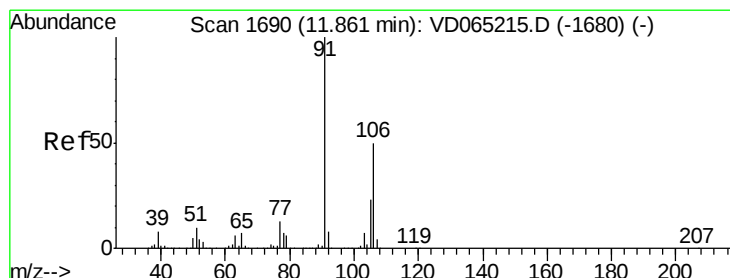
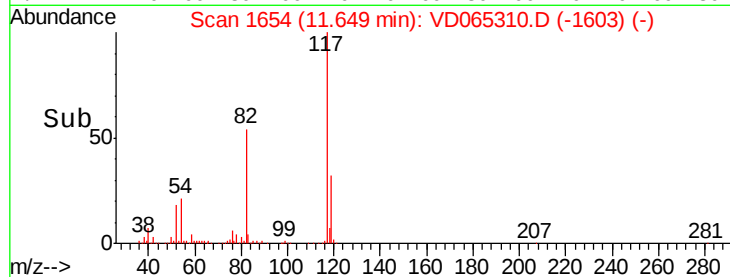
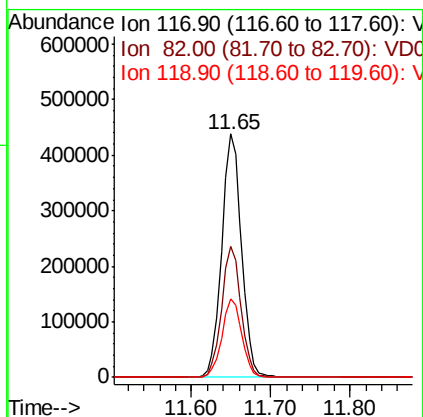
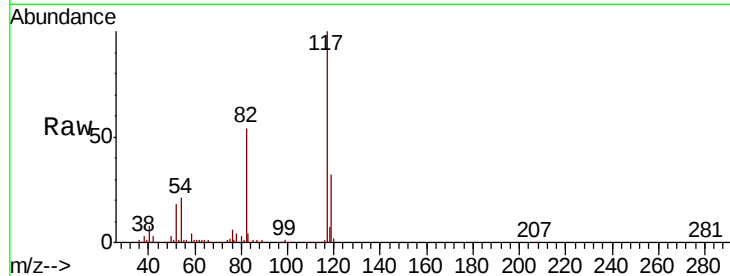




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065310.D  
Acq: 25 Feb 2020 16:00

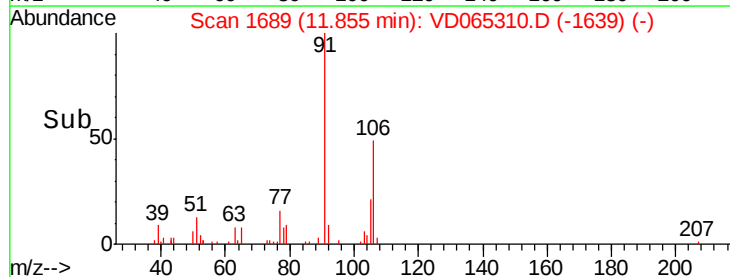
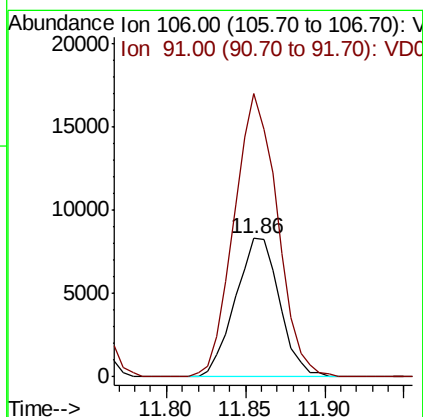
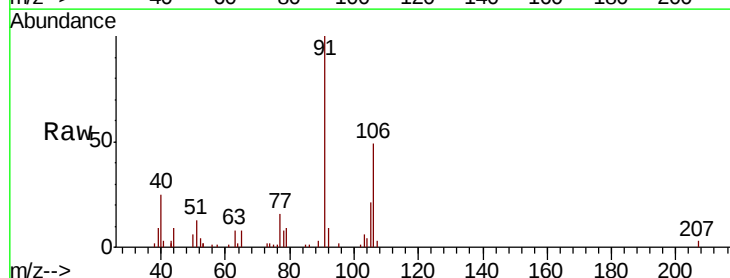
Instrument :  
MSVOA\_D  
ClientSampleId :

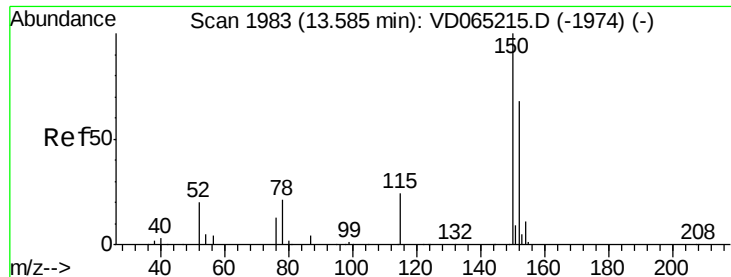
Tot Ion:117 Resp: 753417  
Ion Ratio Lower Upper  
117 100  
82 53.9 42.7 64.1  
119 32.5 25.5 38.3



#68  
m/p-Xylenes  
Concen: 1.587 ug/l  
RT: 11.86 min Scan# 1689  
Delta R.T. -0.01 min  
Lab File: VD065310.D  
Acq: 25 Feb 2020 16:00

Tgt Ion:106 Resp: 16082  
Ion Ratio Lower Upper  
106 100  
91 200.7 158.2 237.4





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD065310.D

Acq: 25 Feb 2020 16:00

Instrument :

MSVOA\_D

ClientSampleId :

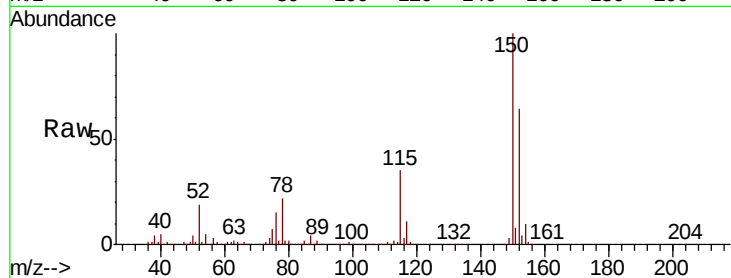
Tot Ion:152 Resp: 355248

Ion Ratio Lower Upper

152 100

115 56.3 27.6 82.8

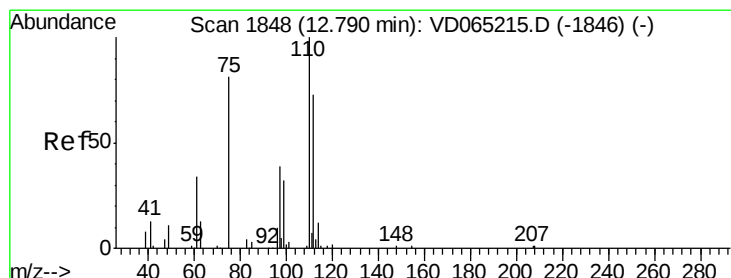
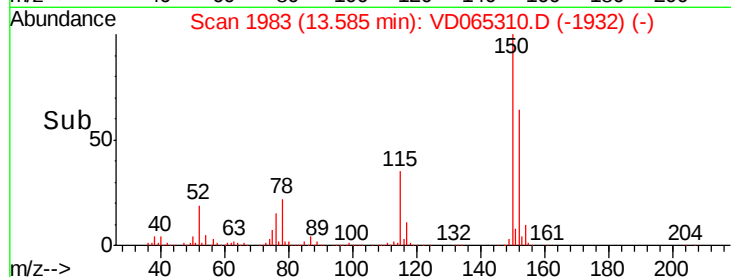
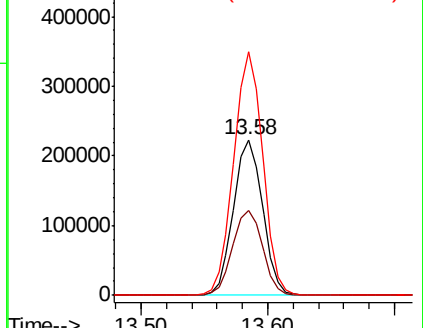
150 156.3 0.0 347.4



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



#76

1,2,3-Trichloropropane

Concen: 51.847 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD065310.D

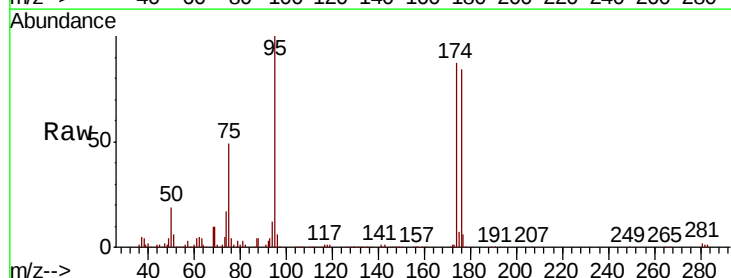
Acq: 25 Feb 2020 16:00

Tgt Ion: 75 Resp: 156709

Ion Ratio Lower Upper

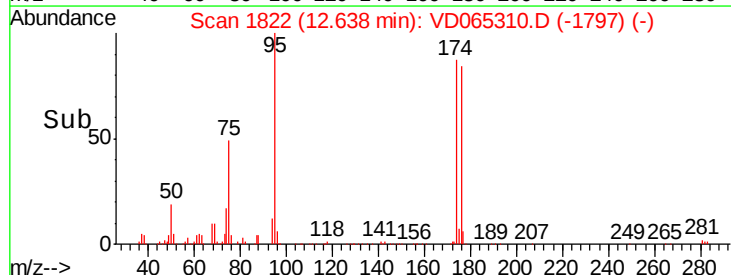
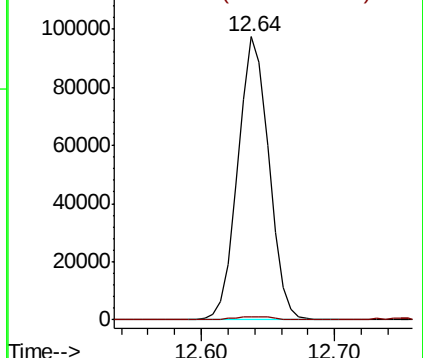
75 100

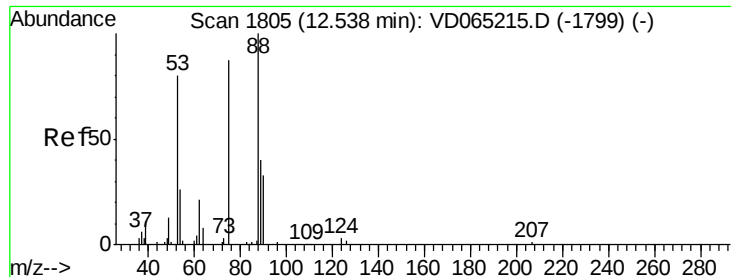
77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 111.946 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.10 min

Lab File: VD065310.D

Acq: 25 Feb 2020 16:00

Instrument :

MSVOA\_D

ClientSampleId :

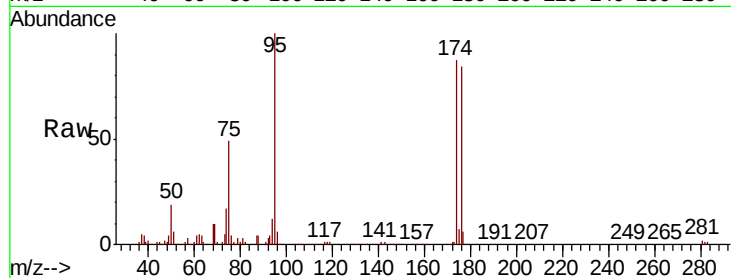
Tot Ion: 75 Resp: 156709

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

Ion 88.90 (88.60 to 89.60): VDC

