

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100220\  
 Data File : VD067052.D  
 Acq On : 03 Oct 2020 00:10  
 Operator : VA/SY  
 Sample : VD1002SBL02  
 Misc : 5.00G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 VD1002SBL02

Quant Time: Oct 03 05:41:47 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Oct 01 15:19:17 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 380387   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 663774   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 633819   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 277044   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 217674   | 59.41 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 118.82% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 224811   | 51.73 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.46% |          |
| 50) Toluene-d8              | 10.34 | 98   | 789528   | 49.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 99.72%  |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 262634   | 48.86 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.72%  |          |

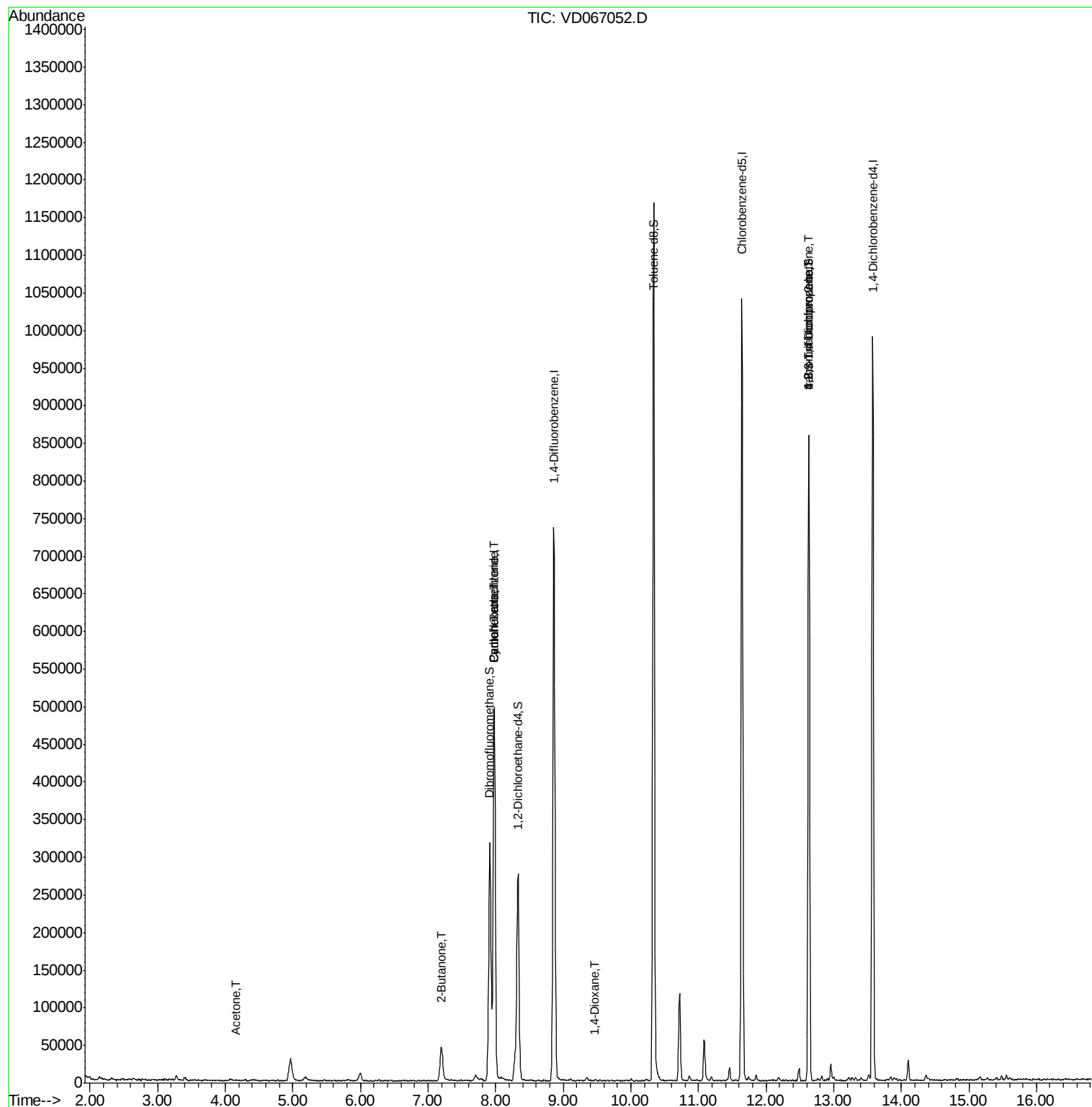
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 2204     | Below Cal |        | 89     |
| 5) Bromomethane                | 2.77  | 94   | 843      | Below Cal |        | 96     |
| 11) Tert butyl alcohol         | 5.25  | 59   | 231      | Below Cal | #      | 72     |
| 16) Acetone                    | 4.16  | 43   | 1323     | 2.365     | ug/l # | 87     |
| 20) Methylene Chloride         | 4.96  | 84   | 23007    | Below Cal |        | 93     |
| 25) 2-Butanone                 | 7.20  | 43   | 1676     | 2.114     | ug/l # | 80     |
| 26) 2,2-Dichloropropane        | 7.20  | 77   | 4490     | Below Cal | #      | 55     |
| 31) Cyclohexane                | 7.98  | 56   | 8573     | 1.558     | ug/l # | 22     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 38381    | 5.733     | ug/l # | 17     |
| 49) 1,4-Dioxane                | 9.46  | 88   | 277      | 11.436    | ug/l # | 39     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 130091   | 53.909    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 130091   | 134.403   | ug/l # | 12     |

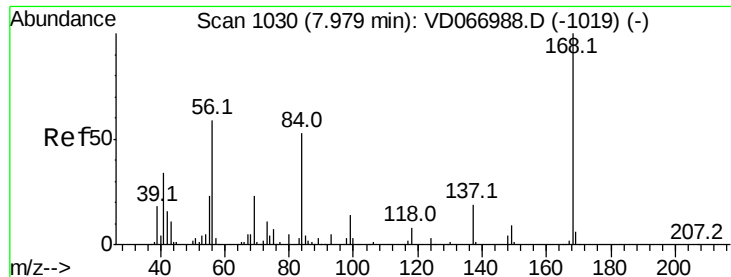
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Thu Oct 01 15:19:17 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VD067052.D

Acq: 03 Oct 2020 00:10

Instrument :

MSVOA\_D

ClientSampleId :

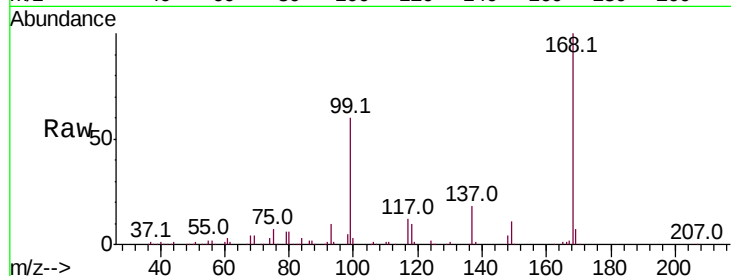
VD1002SBL02

Tot Ion:168 Resp: 380387

Ion Ratio Lower Upper

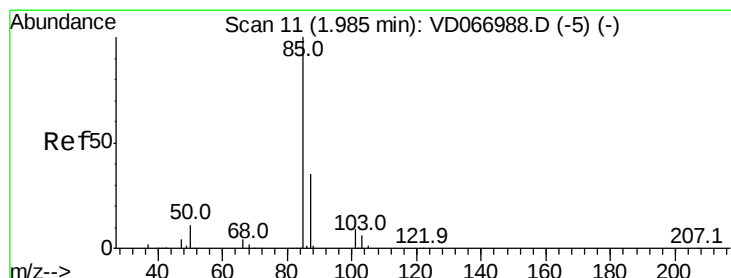
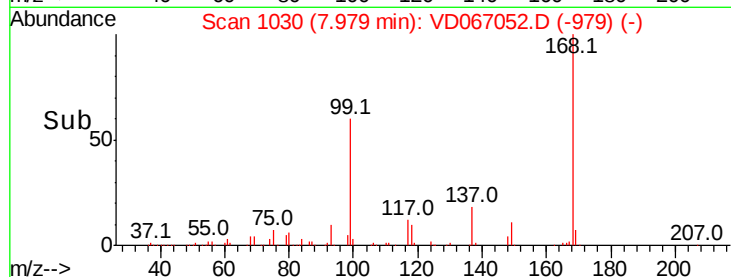
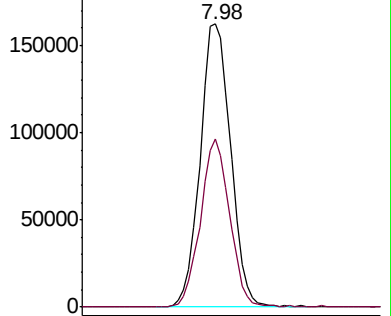
168 100

99 59.4 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.01 min

Lab File: VD067052.D

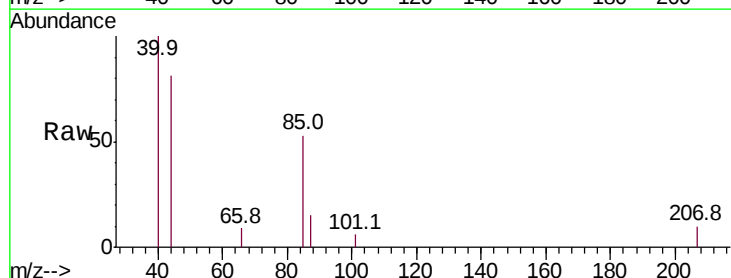
Acq: 03 Oct 2020 00:10

Tgt Ion: 85 Resp: 2204

Ion Ratio Lower Upper

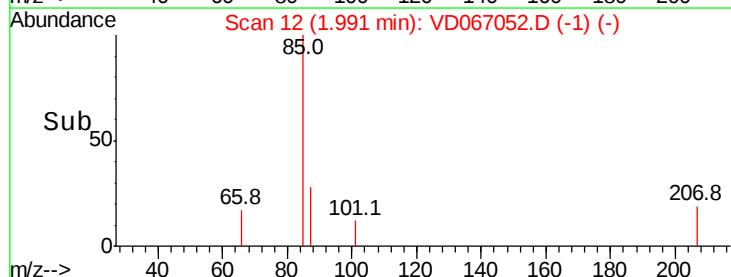
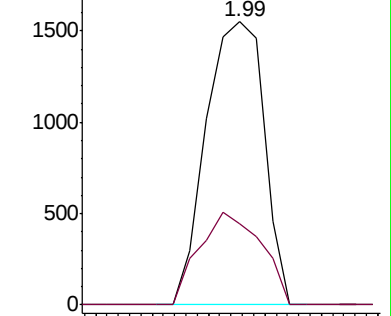
85 100

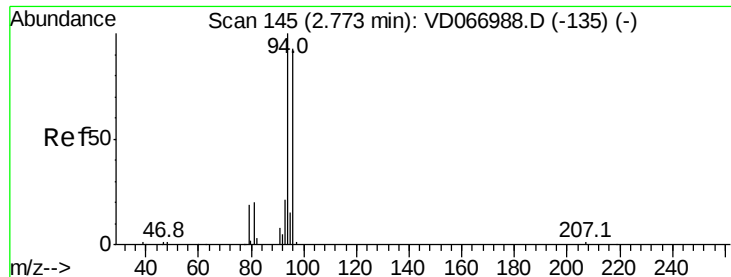
87 28.5 17.3 52.0



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC





#5

Bromomethane

Concen: Below Cal

RT: 2.77 min Scan# 145

Delta R.T. 0.00 min

Lab File: VD067052.D

Acq: 03 Oct 2020 00:10

Instrument :

MSVOA\_D

ClientSampleId :

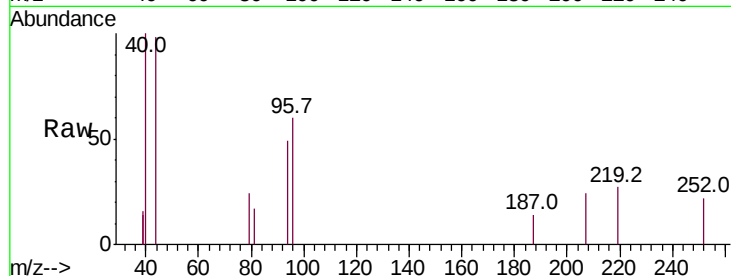
VD1002SBL02

Tot Ion: 94 Resp: 843

Ion Ratio Lower Upper

94 100

96 89.3 74.6 112.0

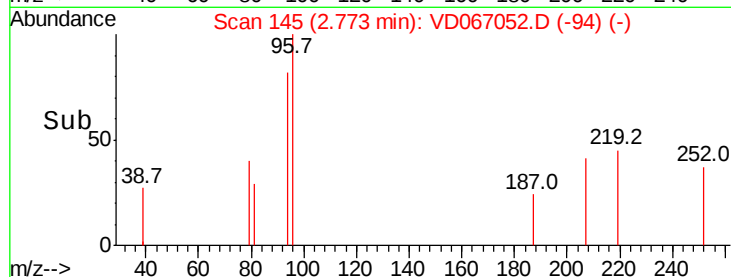


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.77

Time-->

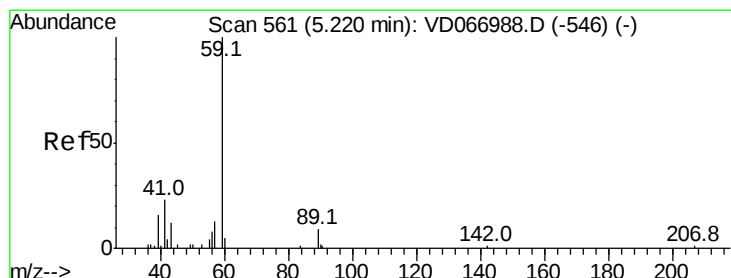


Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.77

Time-->



#11

Tert butyl alcohol

Concen: Below Cal

RT: 5.25 min Scan# 566

Delta R.T. 0.03 min

Lab File: VD067052.D

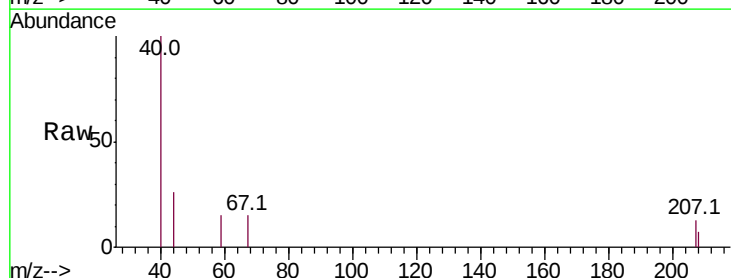
Acq: 03 Oct 2020 00:10

Tgt Ion: 59 Resp: 231

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#

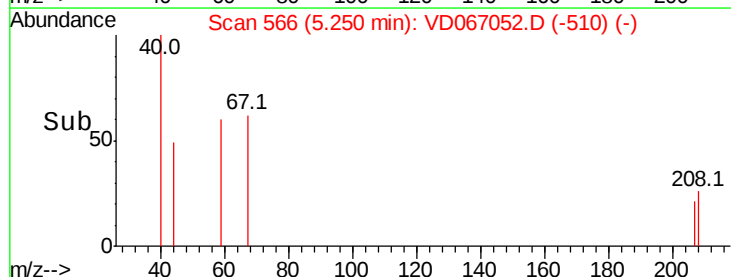


Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.25

Time-->

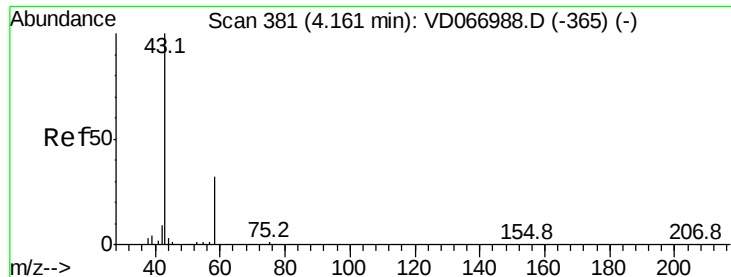


Abundance Ion 59.00 (58.70 to 59.70): VDC

Ion 57.00 (56.70 to 57.70): VDC

5.25

Time-->



#16

Acetone

Concen: 2.365 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.00 min

Lab File: VD067052.D

Acq: 03 Oct 2020 00:10

Instrument :

MSVOA\_D

ClientSampleId :

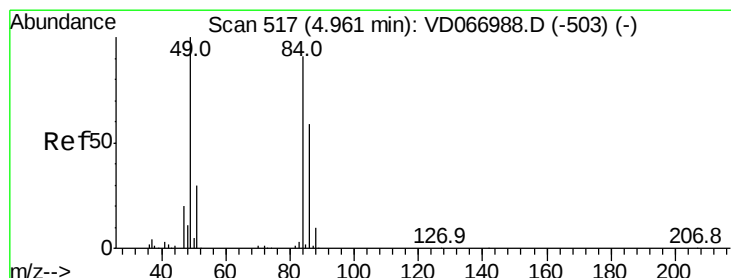
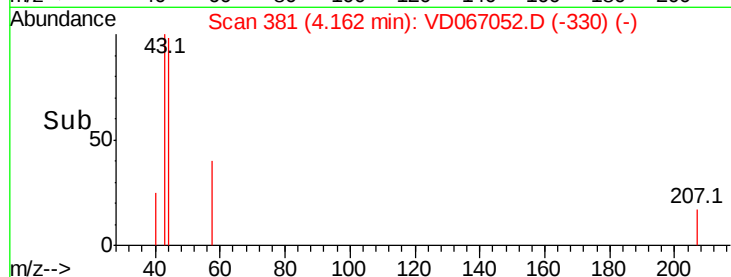
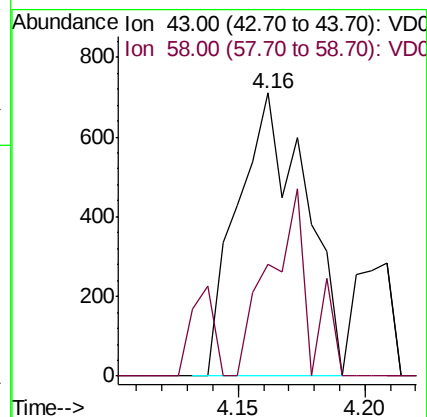
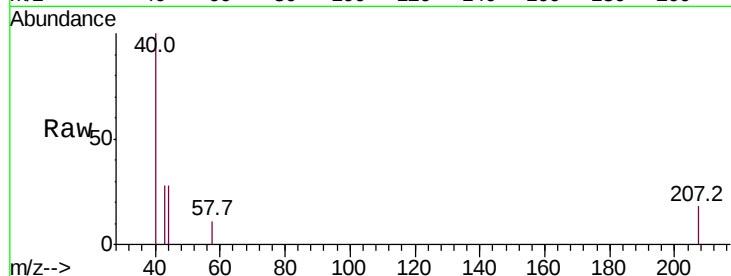
VD1002SBL02

Tot Ion: 43 Resp: 1323

Ion Ratio Lower Upper

43 100

58 39.7 25.9 38.9#



#20

Methylene Chloride

Concen: Below Cal

RT: 4.96 min Scan# 517

Delta R.T. 0.00 min

Lab File: VD067052.D

Acq: 03 Oct 2020 00:10

Tgt Ion: 84 Resp: 23007

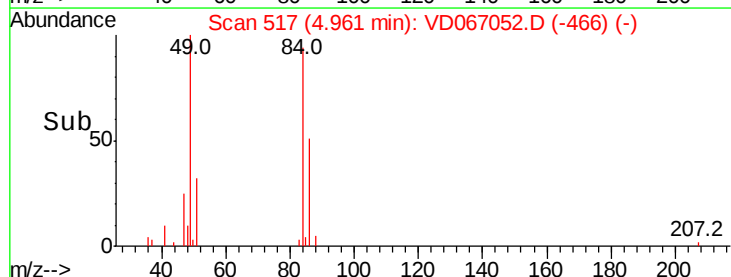
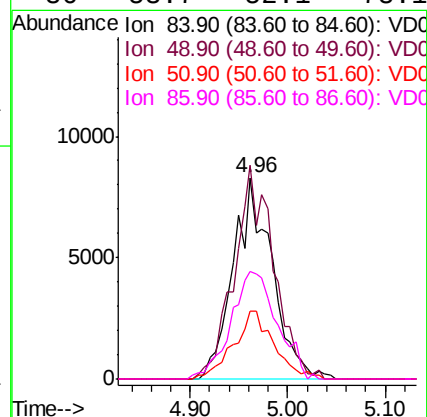
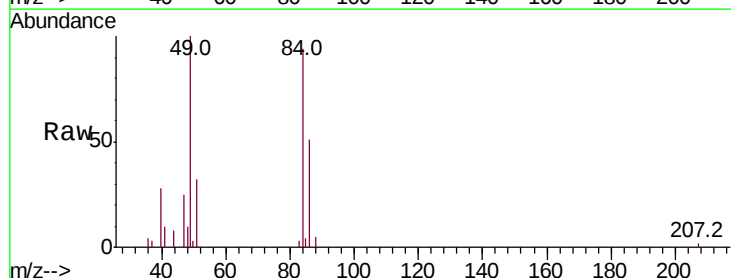
Ion Ratio Lower Upper

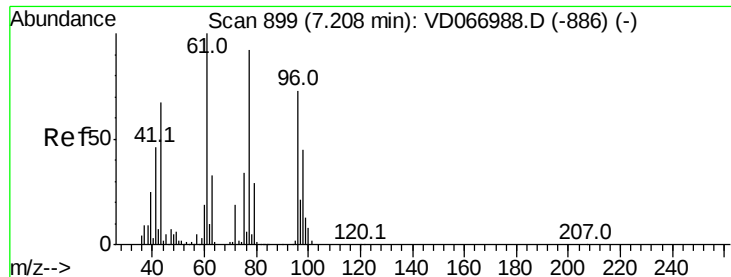
84 100

49 106.0 88.2 132.2

51 33.5 26.6 39.8

86 53.7 52.1 78.1





#25

2-Butanone

Concen: 2.114 ug/l

RT: 7.20 min Scan# 897

Delta R.T. -0.01 min

Lab File: VD067052.D

Acq: 03 Oct 2020 00:10

Instrument :

MSVOA\_D

ClientSampleId :

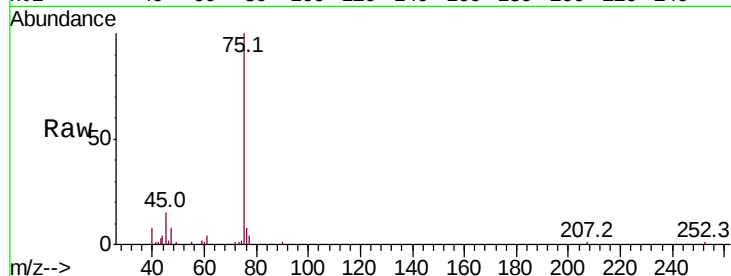
VD1002SBL02

Tot Ion: 43 Resp: 1676

Ion Ratio Lower Upper

43 100

72 39.2 22.8 34.2#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

7.20

1000

800

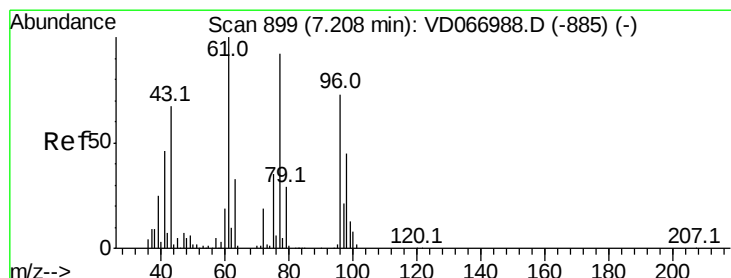
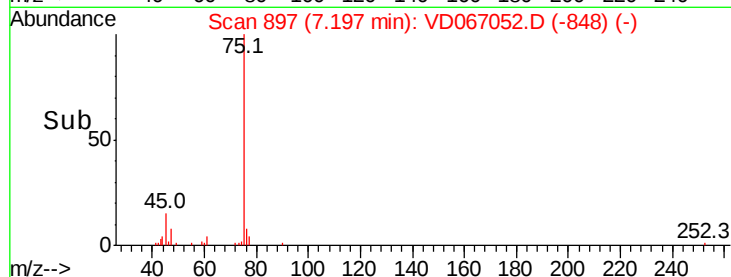
600

400

200

0

Time-->



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.20 min Scan# 898

Delta R.T. -0.01 min

Lab File: VD067052.D

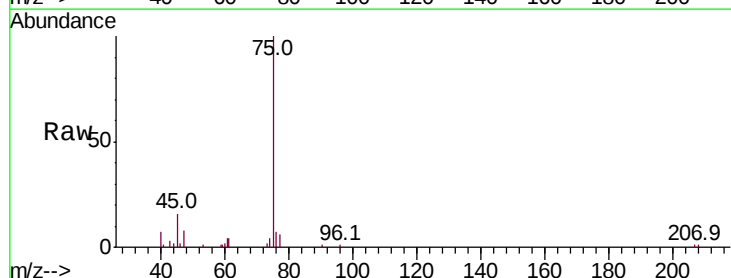
Acq: 03 Oct 2020 00:10

Tgt Ion: 77 Resp: 4490

Ion Ratio Lower Upper

77 100

97 1.2 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

7.20

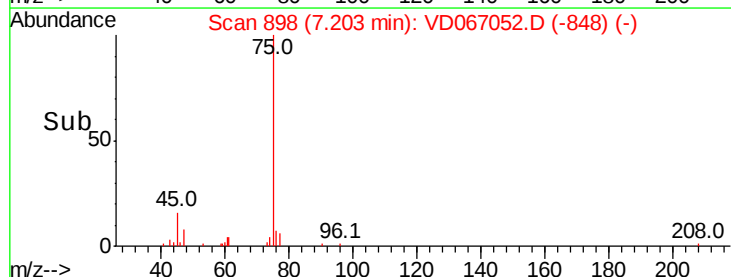
1500

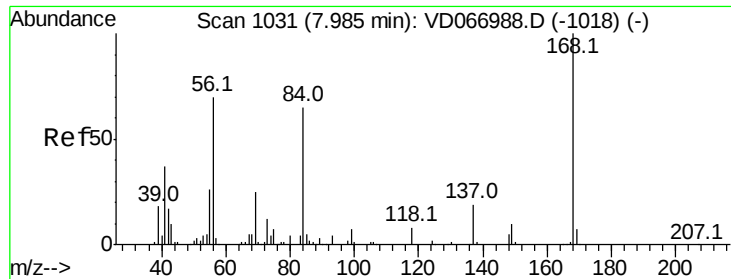
1000

500

0

Time-->

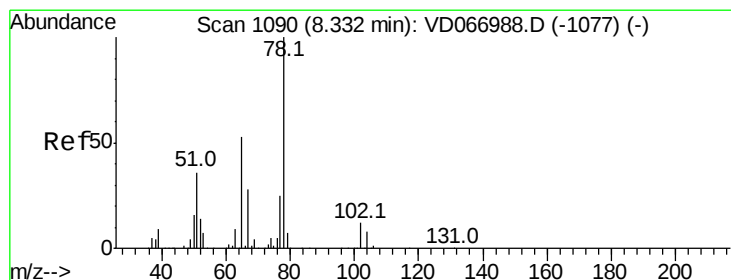
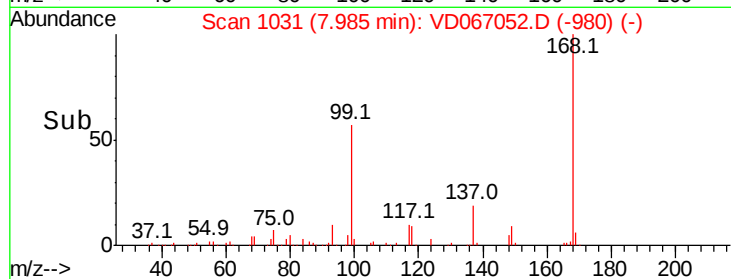
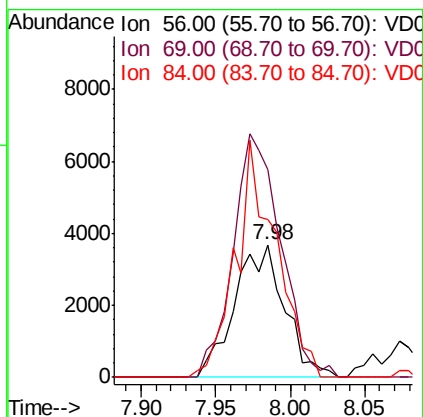
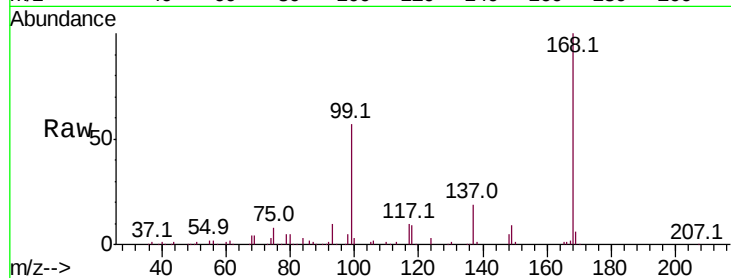




#31  
Cyclohexane  
Concen: 1.558 ug/l  
RT: 7.98 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD067052.D  
Acq: 03 Oct 2020 00:10

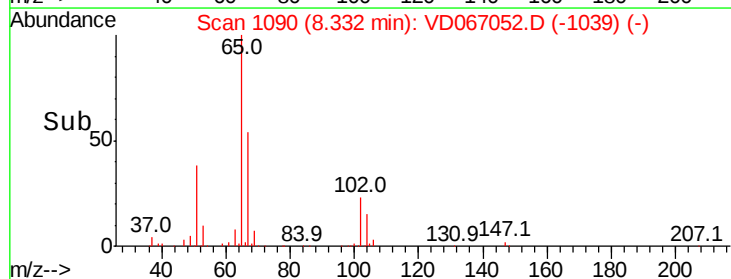
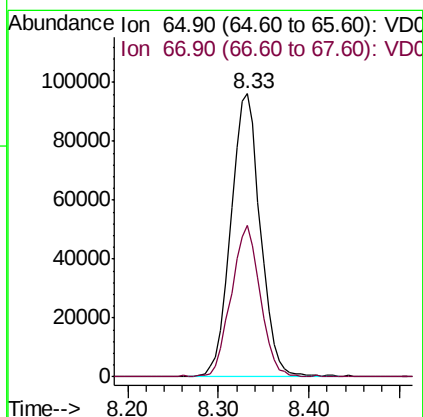
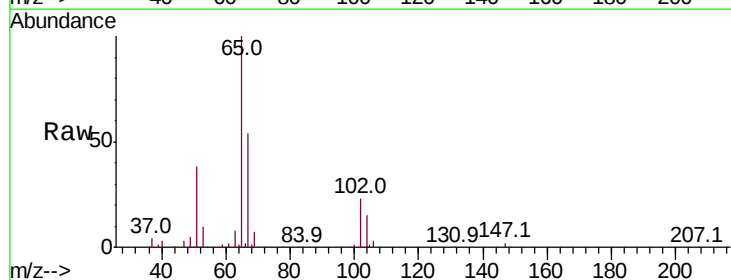
Instrument :  
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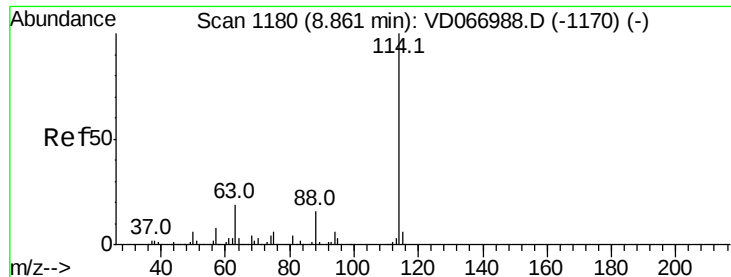
Tot Ion: 56 Resp: 8573  
Ion Ratio Lower Upper  
56 100  
69 157.0 29.0 43.6#  
84 119.6 74.2 111.2#



#33  
1,2-Dichloroethane-d4  
Concen: 59.411 ug/l  
RT: 8.33 min Scan# 1090  
Delta R.T. 0.00 min  
Lab File: VD067052.D  
Acq: 03 Oct 2020 00:10

Tgt Ion: 65 Resp: 217674  
Ion Ratio Lower Upper  
65 100  
67 52.5 0.0 106.8

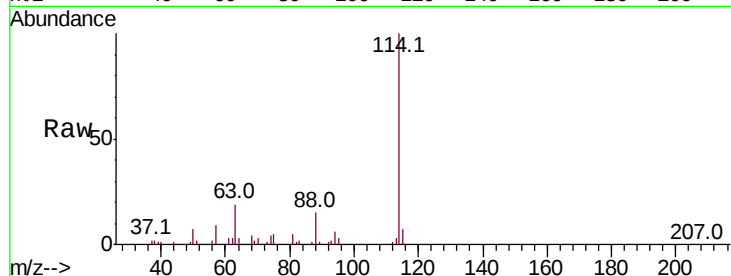




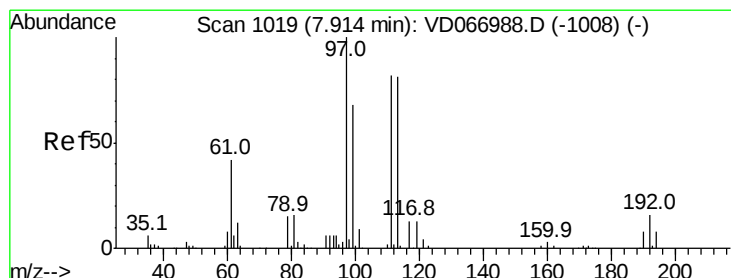
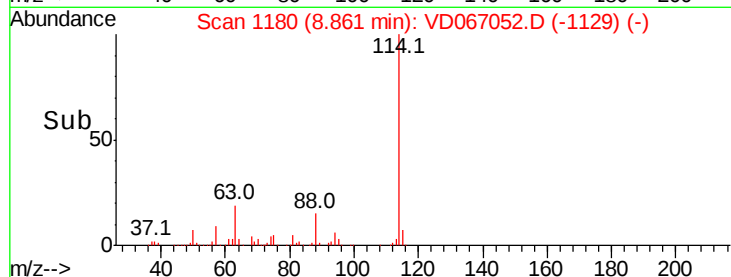
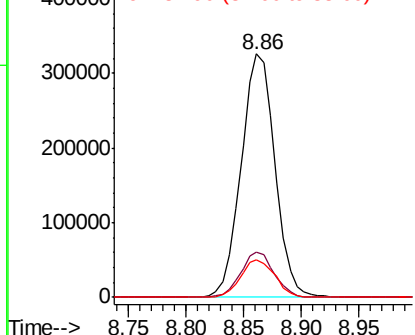
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.86 min Scan# 1180  
Delta R.T. 0.00 min  
Lab File: VD067052.D  
Acq: 03 Oct 2020 00:10

Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1002SBL02

Tot Ion:114 Resp: 663774  
Ion Ratio Lower Upper  
114 100  
63 18.8 0.0 38.4  
88 15.4 0.0 31.2

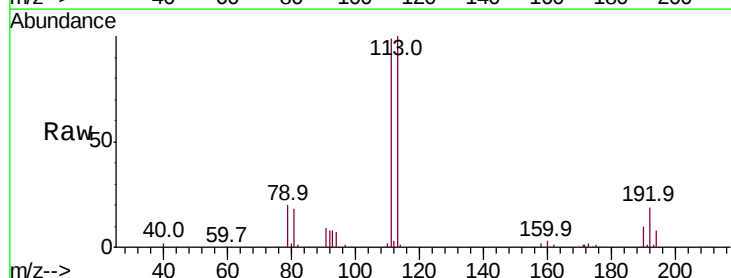


Abundance Ion 113.90 (113.60 to 114.60): V  
Ion 63.00 (62.70 to 63.70): V  
Ion 87.90 (87.60 to 88.60): V

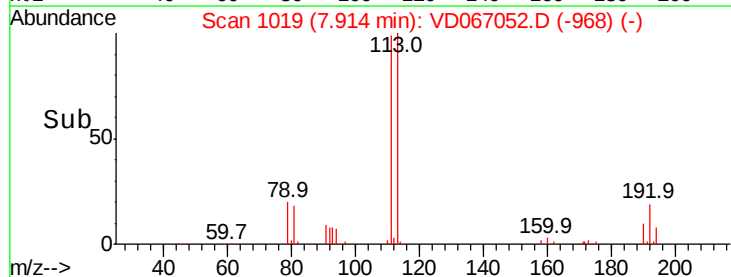
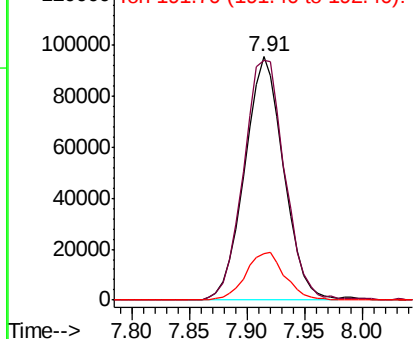


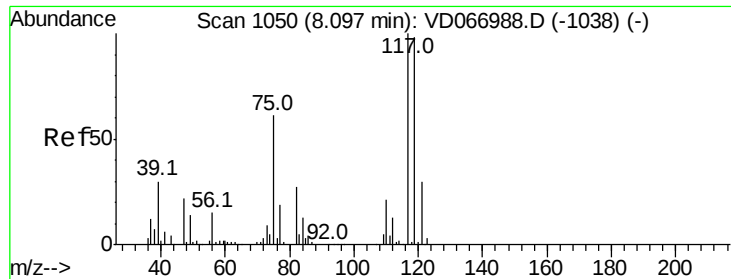
#35  
Dibromofluoromethane  
Concen: 51.733 ug/l  
RT: 7.91 min Scan# 1019  
Delta R.T. 0.00 min  
Lab File: VD067052.D  
Acq: 03 Oct 2020 00:10

Tgt Ion:113 Resp: 224811  
Ion Ratio Lower Upper  
113 100  
111 104.3 83.0 124.4  
192 19.6 15.5 23.3



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





#38

Carbon Tetrachloride

Concen: 5.733 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067052.D

Acq: 03 Oct 2020 00:10

Instrument :

MSVOA\_D

ClientSampleId :

VD1002SBL02

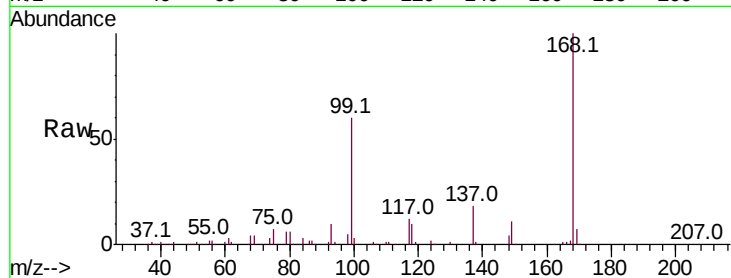
Tot Ion:117 Resp: 38381

Ion Ratio Lower Upper

117 100

119 7.4 78.7 118.1#

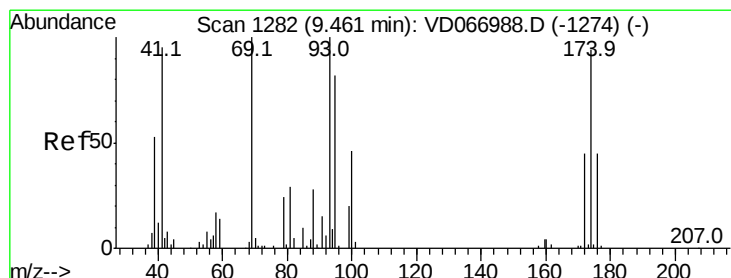
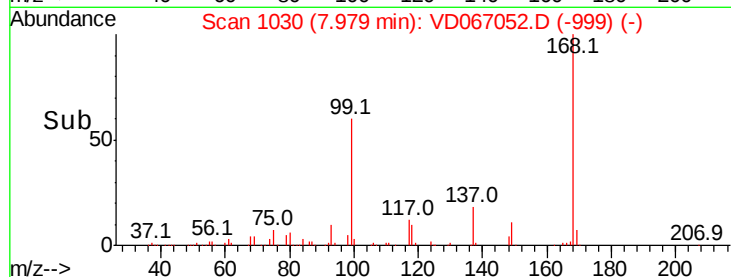
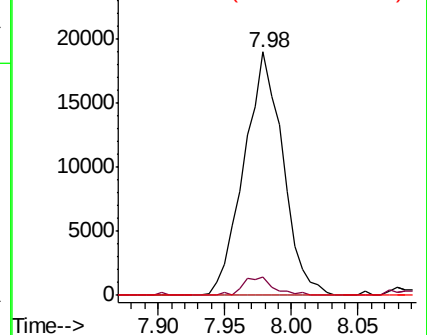
121 0.0 24.2 36.2#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#49

1,4-Dioxane

Concen: 11.436 ug/l

RT: 9.46 min Scan# 1282

Delta R.T. 0.00 min

Lab File: VD067052.D

Acq: 03 Oct 2020 00:10

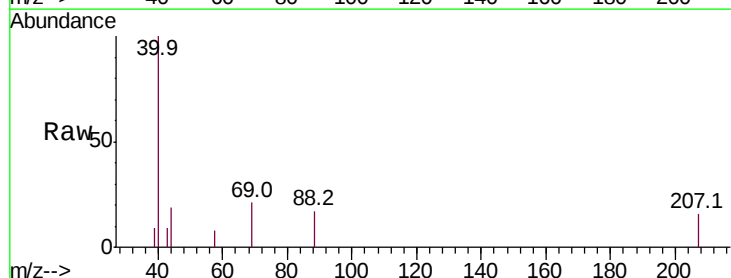
Tgt Ion: 88 Resp: 277

Ion Ratio Lower Upper

88 100

43 23.5 25.6 38.4#

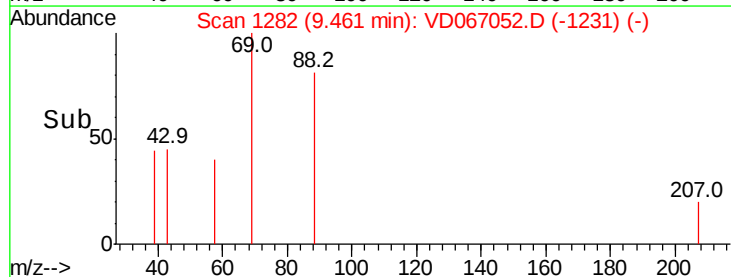
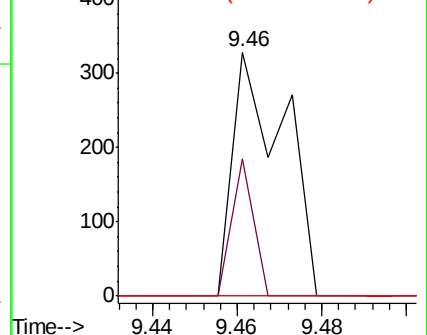
58 0.0 53.5 80.3#

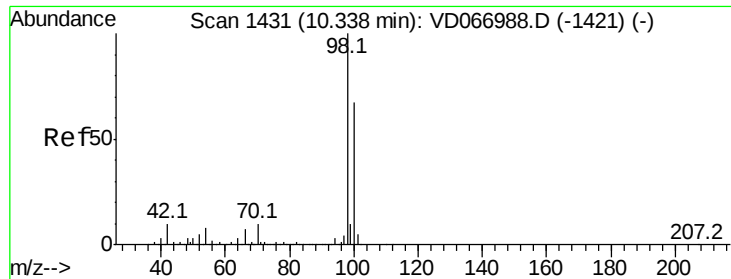


Abundance Ion 88.00 (87.70 to 88.70): VDC

Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC





#50

Toluene-d8

Concen: 49.860 ug/l

RT: 10.34 min Scan# 1431

Delta R.T. 0.00 min

Lab File: VD067052.D

Acq: 03 Oct 2020 00:10

Instrument :

MSVOA\_D

ClientSampleId :

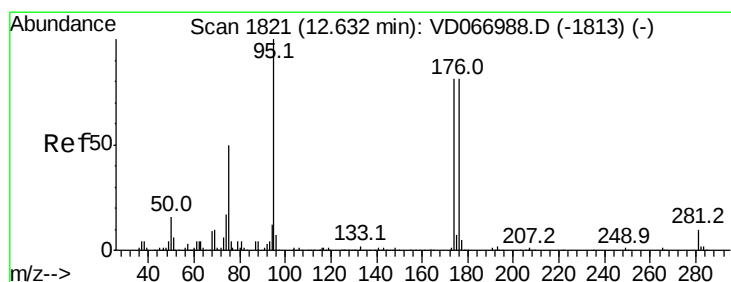
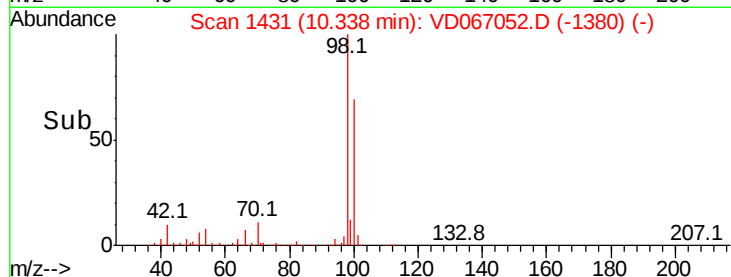
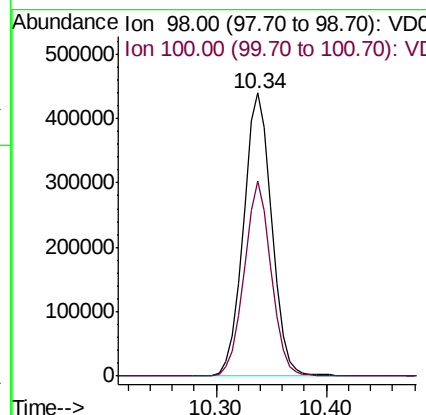
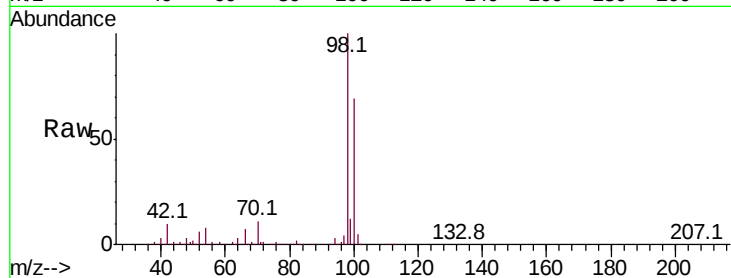
VD1002SBL02

Tot Ion: 98 Resp: 789528

Ion Ratio Lower Upper

98 100

100 66.0 52.8 79.2



#62

4-Bromofluorobenzene

Concen: 48.857 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.00 min

Lab File: VD067052.D

Acq: 03 Oct 2020 00:10

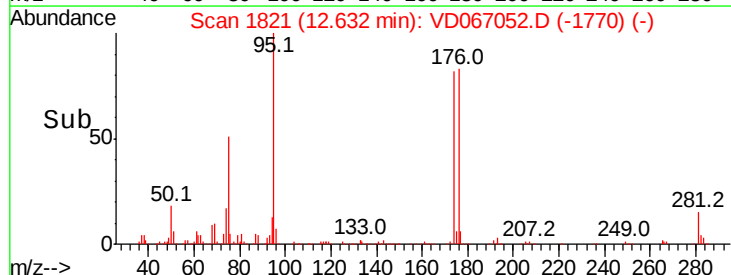
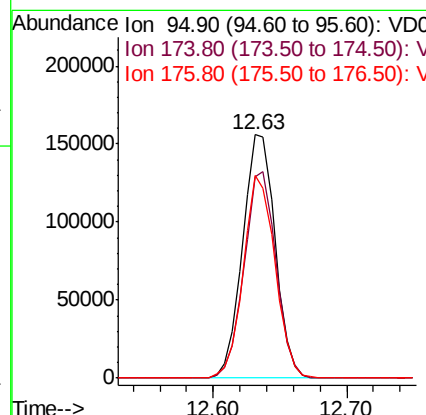
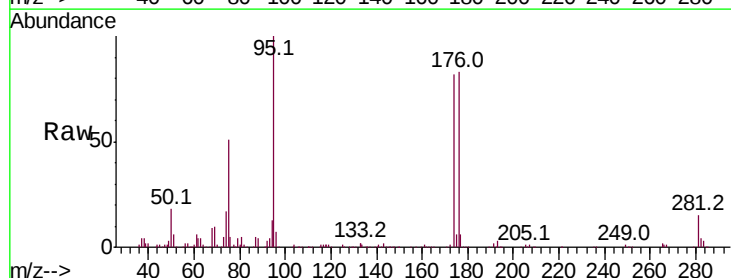
Tgt Ion: 95 Resp: 262634

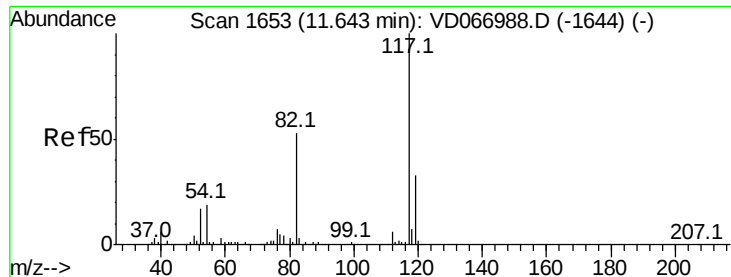
Ion Ratio Lower Upper

95 100

174 83.1 0.0 167.6

176 80.8 0.0 162.4

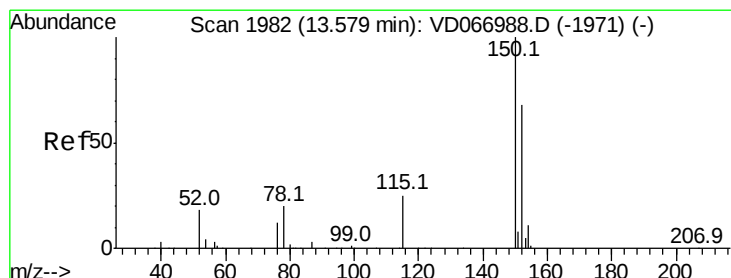
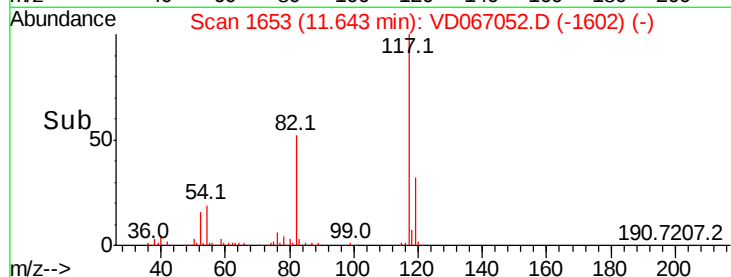
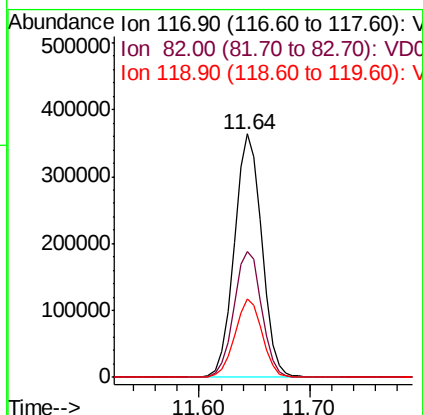
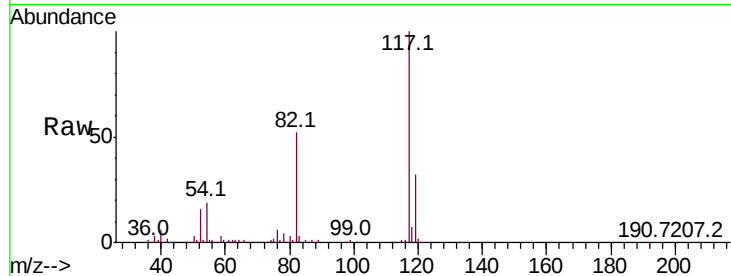




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD067052.D  
Acq: 03 Oct 2020 00:10

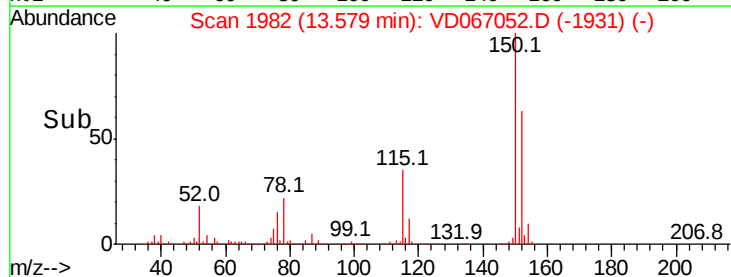
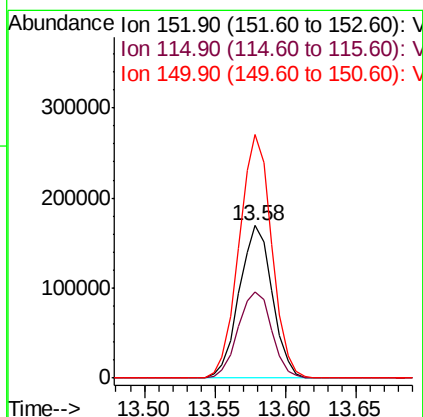
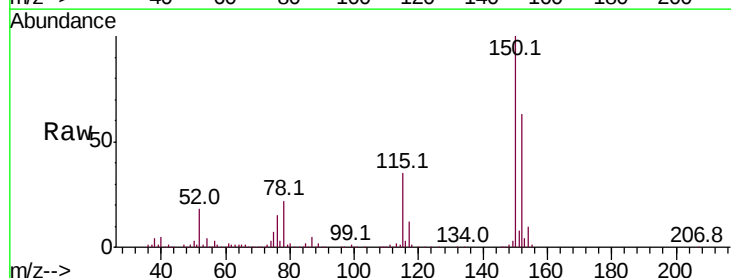
Instrument :  
MSVOA\_D  
ClientSampleId :  
VD1002SBL02

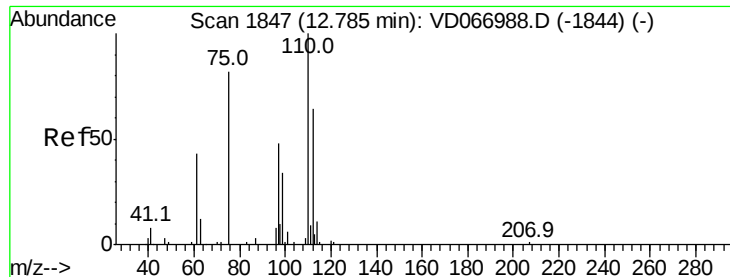
Tot Ion:117 Resp: 633819  
Ion Ratio Lower Upper  
117 100  
82 51.8 42.6 63.8  
119 32.3 26.3 39.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD067052.D  
Acq: 03 Oct 2020 00:10

Tgt Ion:152 Resp: 277044  
Ion Ratio Lower Upper  
152 100  
115 57.9 29.6 88.8  
150 157.5 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 53.909 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD067052.D

Acq: 03 Oct 2020 00:10

Instrument :

MSVOA\_D

ClientSampleId :

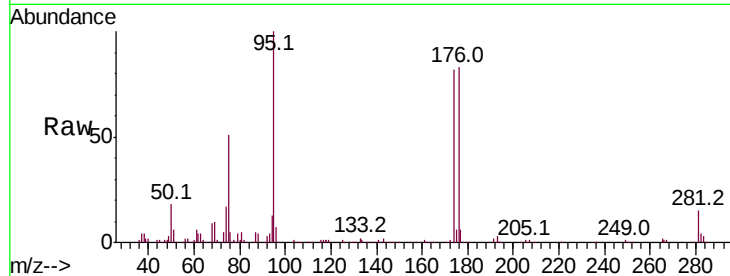
VD1002SBL02

Tot Ion: 75 Resp: 130091

Ion Ratio Lower Upper

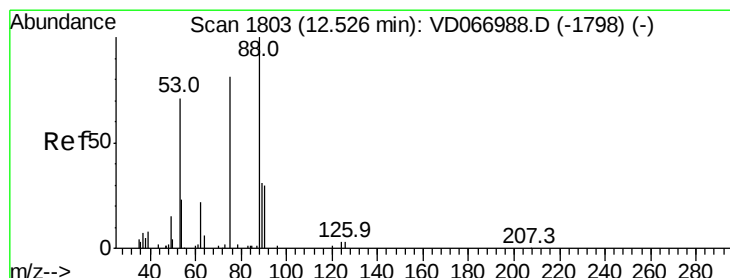
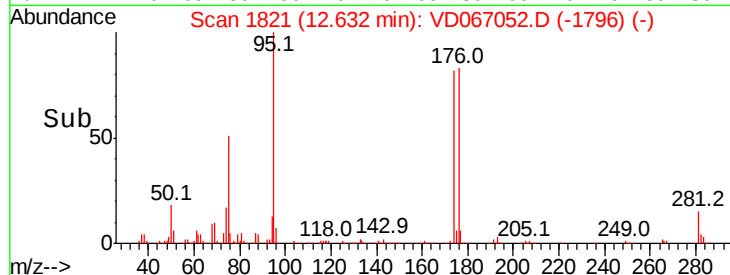
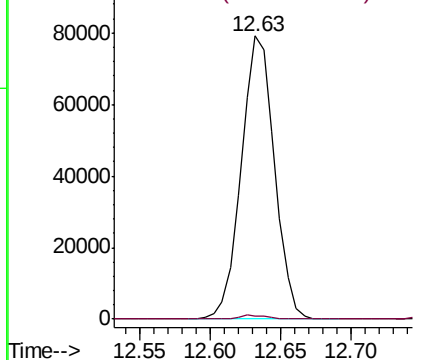
75 100

77 1.3 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: 134.403 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD067052.D

Acq: 03 Oct 2020 00:10

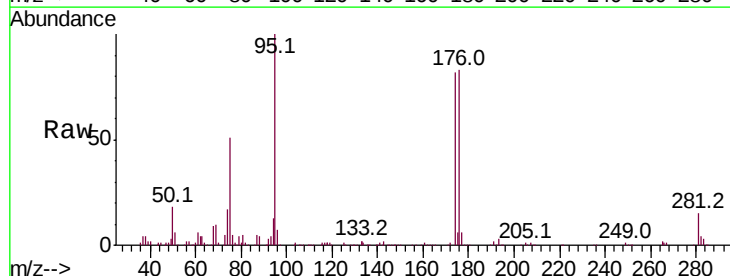
Tgt Ion: 75 Resp: 130091

Ion Ratio Lower Upper

75 100

53 0.1 73.8 110.6#

89 0.1 38.9 58.3#



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

