

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD100120\  
 Data File : VD067001.D  
 Acq On : 01 Oct 2020 19:09  
 Operator : VA/SY  
 Sample : L4198-01  
 Misc : 6.38G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 21 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 RO-15

Quant Time: Oct 02 00:41:28 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  | 483248   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 805339   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 758514   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 343111   | 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   | 240947   | 51.77  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 103.54% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 258834   | 49.09  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 98.18%  |          |
| 50) Toluene-d8              | 10.34 | 98   | 967817   | 50.38  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.76% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 316161   | 48.48  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.96%  |          |

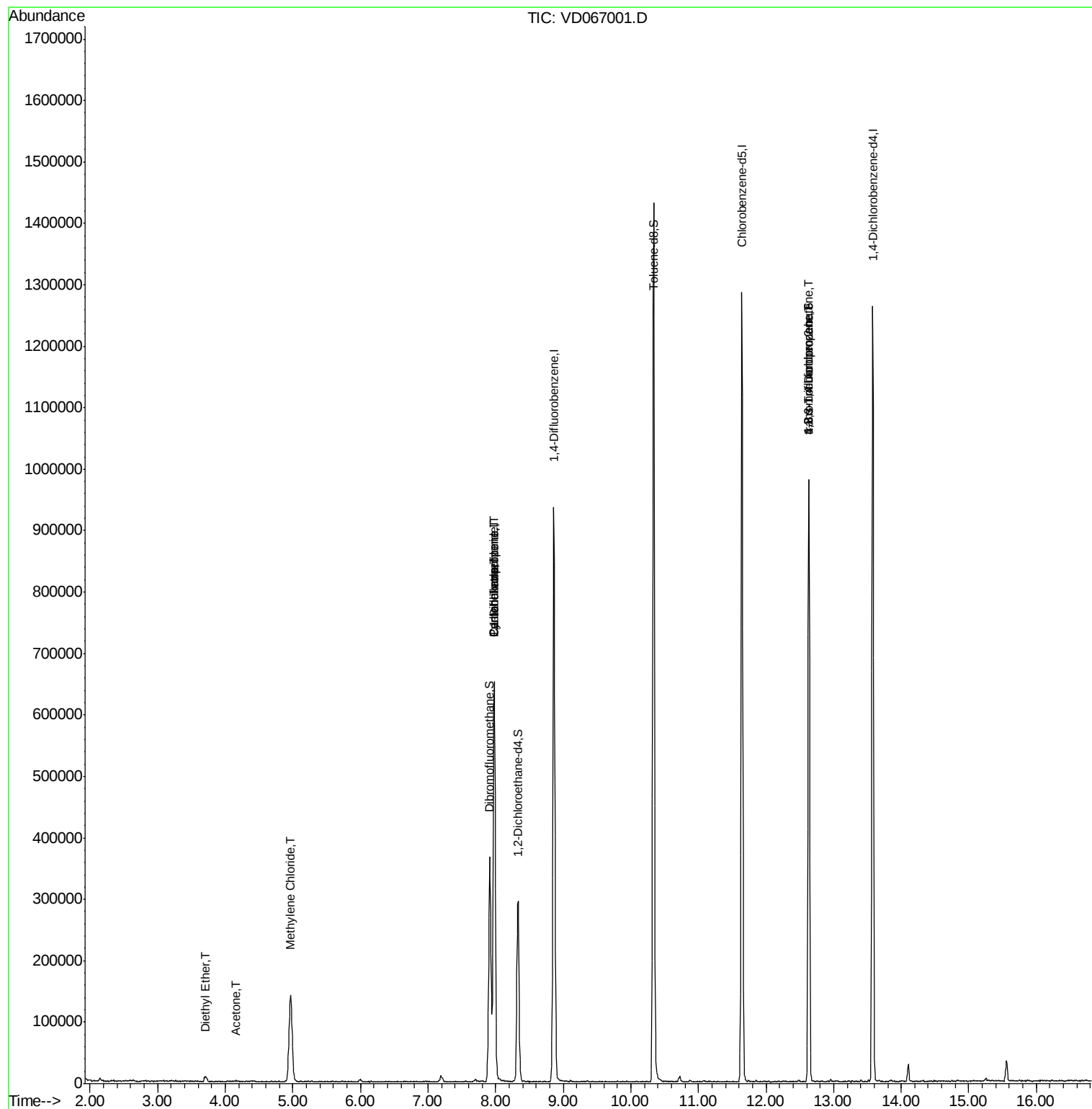
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 532      | Below Cal | #      | 40     |
| 5) Bromomethane                | 2.79  | 94   | 547      | Below Cal |        | 99     |
| 8) Diethyl Ether               | 3.70  | 74   | 3783     | 1.779     | ug/l # | 52     |
| 11) Tert butyl alcohol         | 5.22  | 59   | 209      | Below Cal | #      | 72     |
| 16) Acetone                    | 4.16  | 43   | 1118     | 1.573     | ug/l # | 29     |
| 20) Methylene Chloride         | 4.97  | 84   | 118861   | 19.074    | ug/l   | 96     |
| 26) 2,2-Dichloropropane        | 7.21  | 77   | 1194     | Below Cal | #      | 53     |
| 31) Cyclohexane                | 7.98  | 56   | 9655     | 1.381     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.98  | 75   | 36844    | 4.908     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.98  | 117  | 50210    | 6.182     | ug/l # | 14     |
| 76) 1,2,3-Trichloropropane     | 12.63 | 75   | 158711   | 53.105    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.63 | 75   | 158711   | 132.398   | ug/l # | 12     |

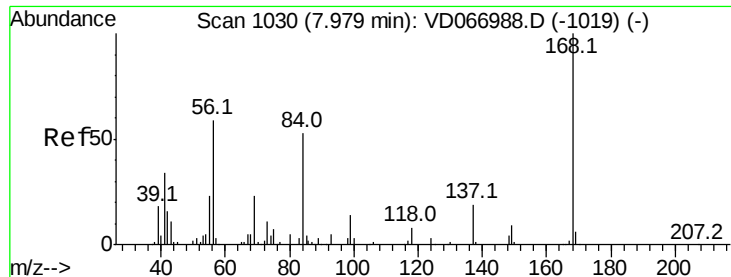
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD100120\  
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Quant Time: Oct 02 00:41:28 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D100120S.M  
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: VD067001.D

Acq: 01 Oct 2020 19:09

Instrument :

MSVOA\_D

ClientSampleID :

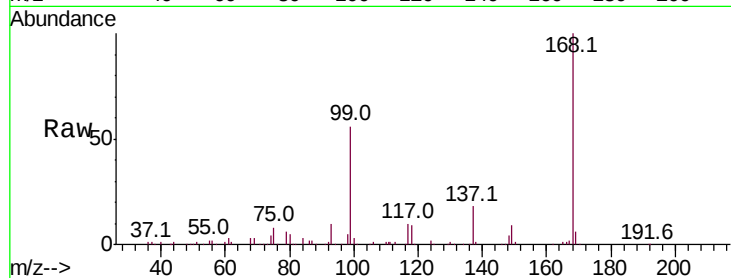
RO-15

Tot Ion:168 Resp: 483248

Ion Ratio Lower Upper

168 100

99 56.1 44.1 66.1



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

250000

200000

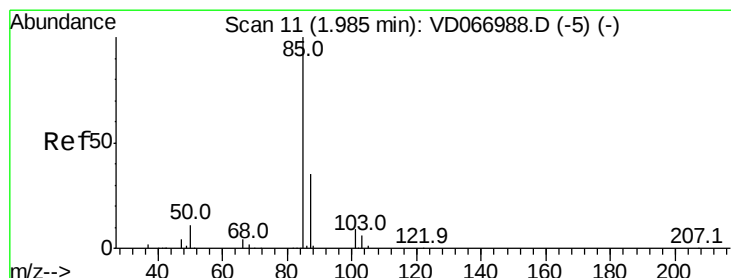
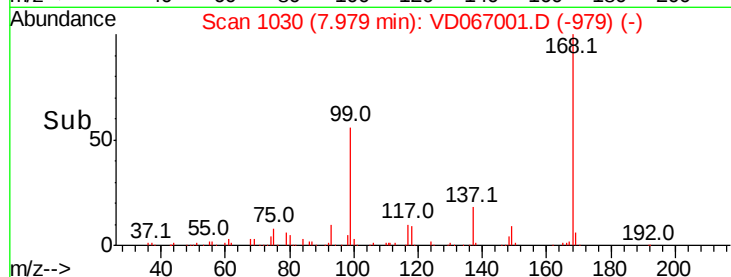
150000

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 11

Delta R.T. 0.00 min

Lab File: VD067001.D

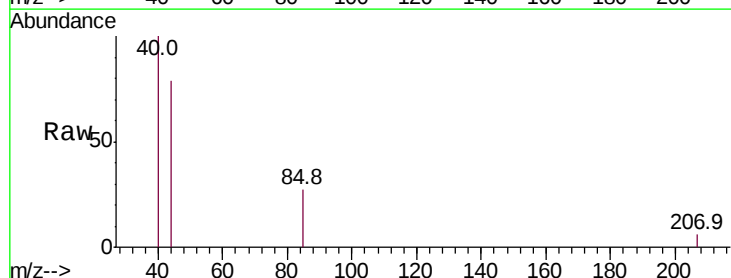
Acq: 01 Oct 2020 19:09

Tgt Ion: 85 Resp: 532

Ion Ratio Lower Upper

85 100

87 0.0 17.3 52.0#



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

800

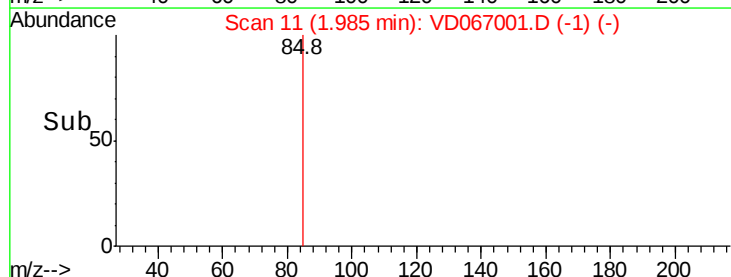
600

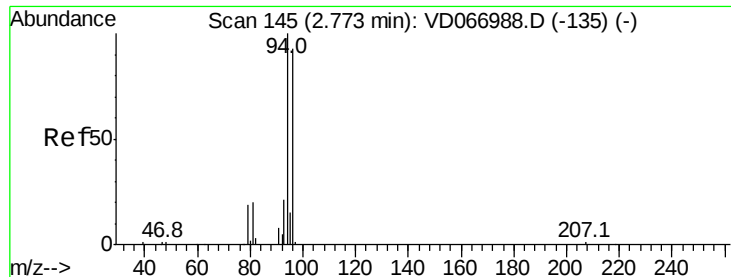
400

200

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.79 min Scan# 147

Delta R.T. 0.01 min

Lab File: VD067001.D

Acq: 01 Oct 2020 19:09

Instrument :

MSVOA\_D

ClientSampleId :

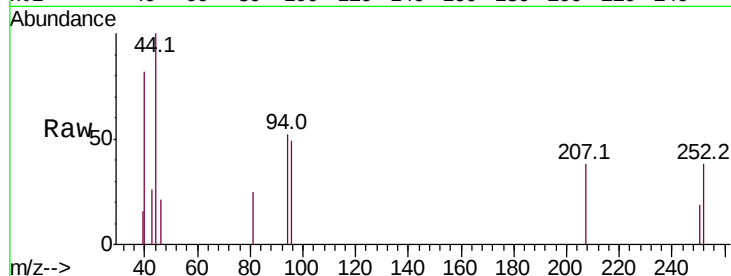
RO-15

Tot Ion: 94 Resp: 547

Ion Ratio Lower Upper

94 100

96 94.0 74.6 112.0



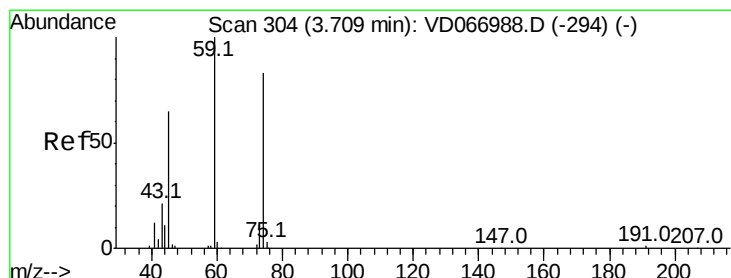
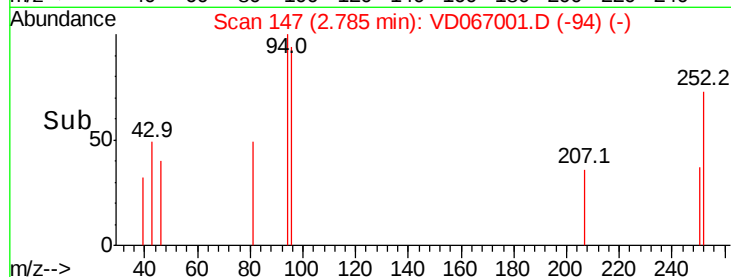
Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC

2.79

2.74 2.76 2.78 2.80 2.82

Time-->



#8

Diethyl Ether

Concen: 1.779 ug/l

RT: 3.70 min Scan# 303

Delta R.T. -0.01 min

Lab File: VD067001.D

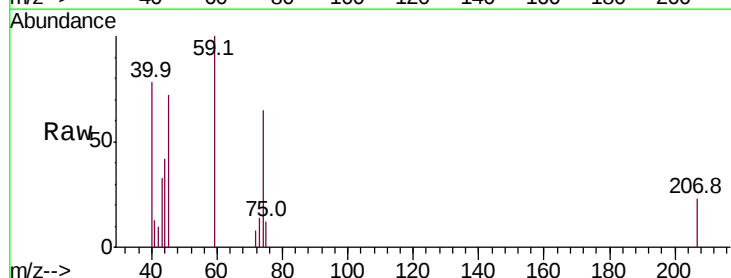
Acq: 01 Oct 2020 19:09

Tgt Ion: 74 Resp: 3783

Ion Ratio Lower Upper

74 100

45 130.8 43.1 129.3#



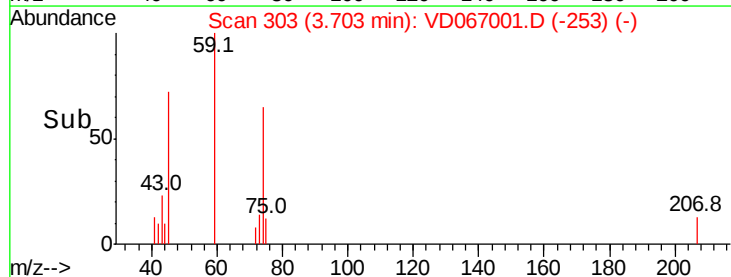
Abundance Ion 74.00 (73.70 to 74.70): VDC

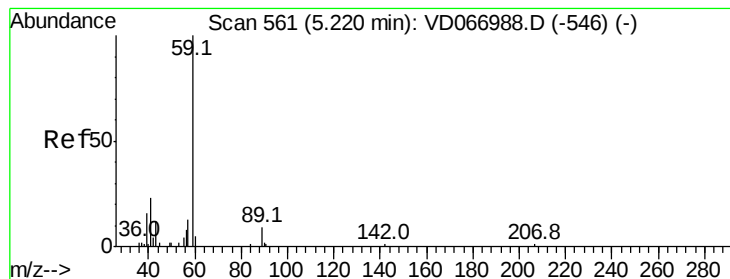
Ion 45.00 (44.70 to 45.70): VDC

3.70

3.65 3.70 3.75

Time-->



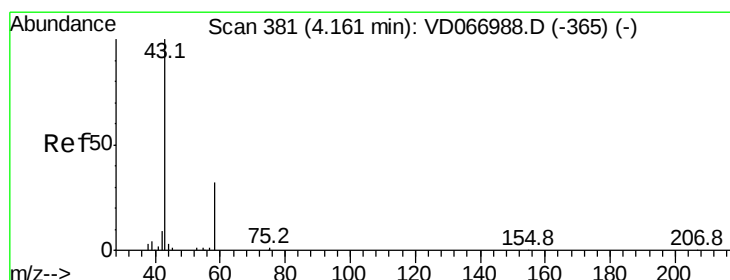
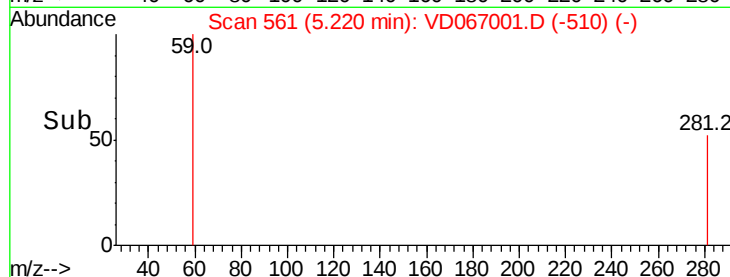
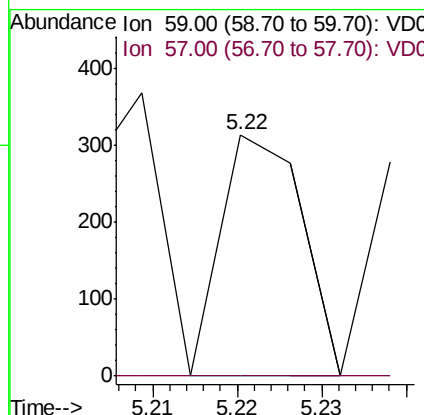
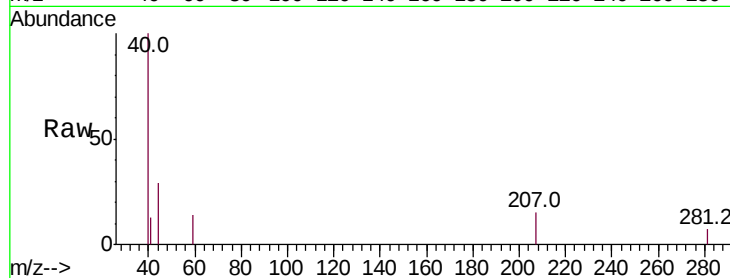


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.22 min Scan# 561  
 Delta R.T. 0.00 min  
 Lab File: VD067001.D  
 Acq: 01 Oct 2020 19:09

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 RO-15

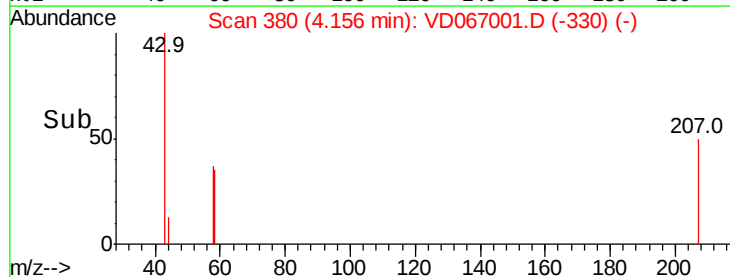
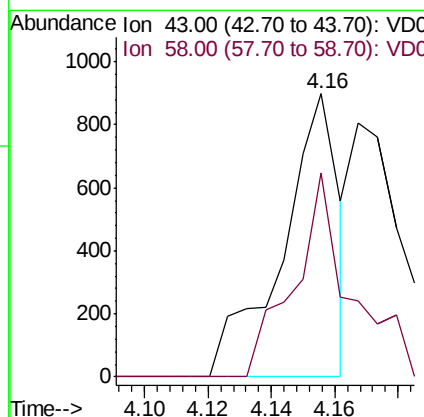
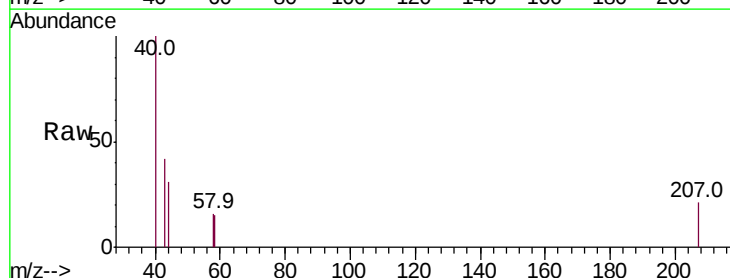
Tot Ion: 59 Resp: 209  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 8.2 12.4#

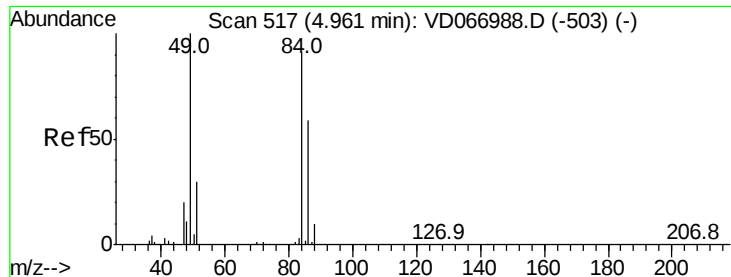


#16

Acetone  
 Concen: 1.573 ug/l  
 RT: 4.16 min Scan# 380  
 Delta R.T. -0.01 min  
 Lab File: VD067001.D  
 Acq: 01 Oct 2020 19:09

Tgt Ion: 43 Resp: 1118  
 Ion Ratio Lower Upper  
 43 100  
 58 72.3 25.9 38.9#





#20

Methylene Chloride

Concen: 19.074 ug/l

RT: 4.97 min Scan# 518

Delta R.T. 0.01 min

Lab File: VD067001.D

Acq: 01 Oct 2020 19:09

Instrument :

MSVOA\_D

ClientSampleId :

RO-15

Tot Ion: 84 Resp: 118861

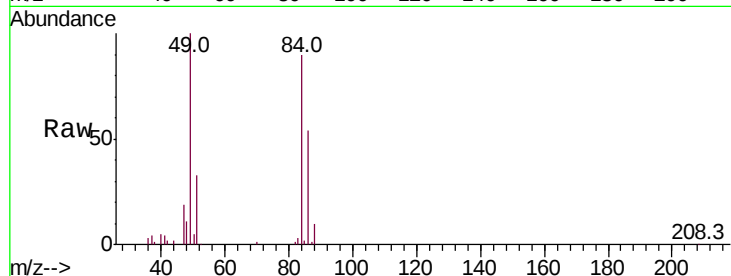
Ion Ratio Lower Upper

84 100

49 111.4 88.2 132.2

51 36.9 26.6 39.8

86 59.9 52.1 78.1

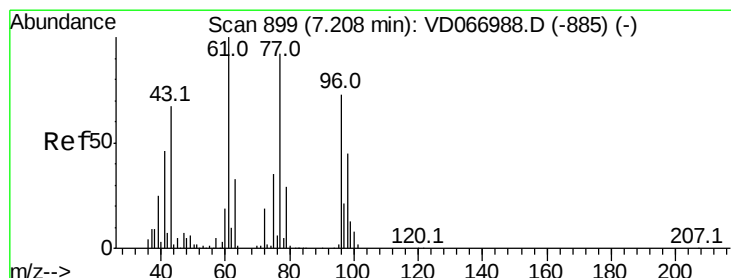
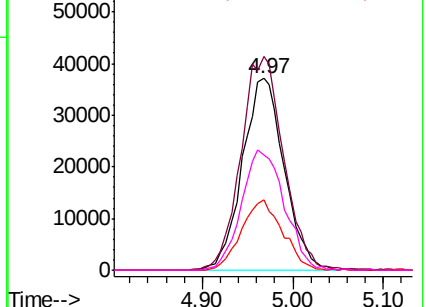
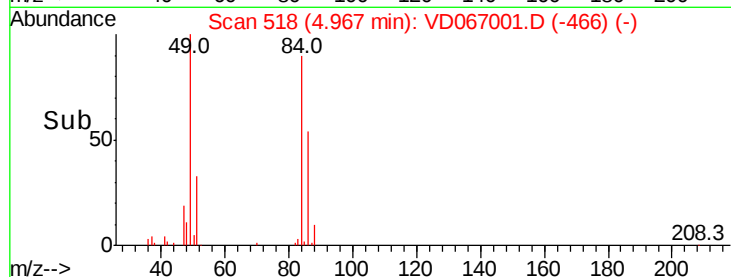


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#26

2,2-Dichloropropane

Concen: Below Cal

RT: 7.21 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD067001.D

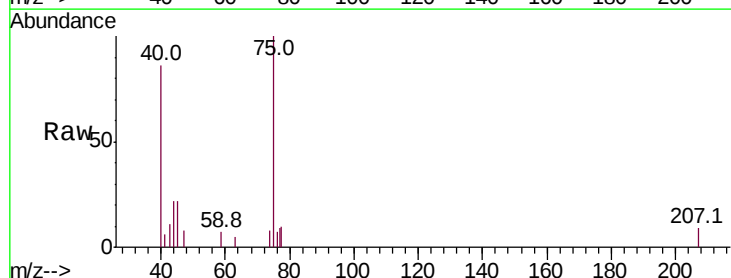
Acq: 01 Oct 2020 19:09

Tgt Ion: 77 Resp: 1194

Ion Ratio Lower Upper

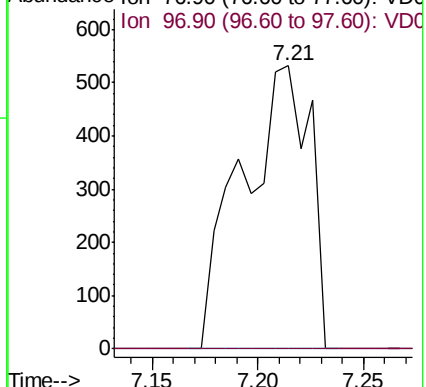
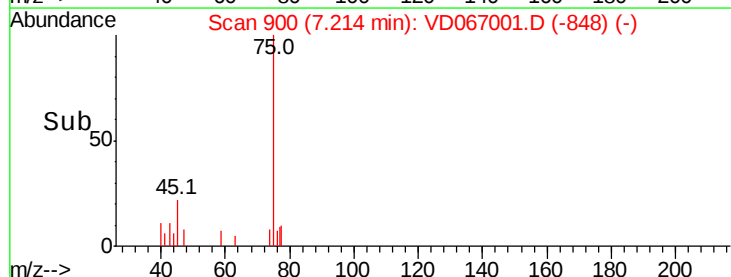
77 100

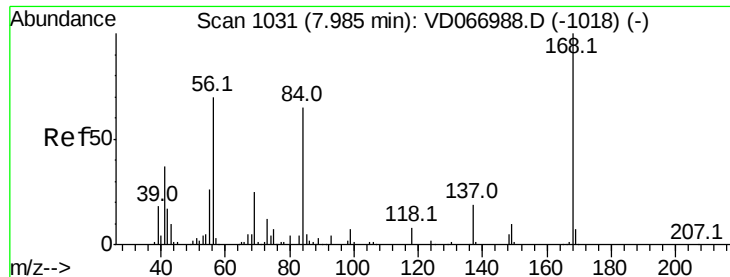
97 0.0 11.4 34.2#



Abundance Ion 76.90 (76.60 to 77.60): VDC

Ion 96.90 (96.60 to 97.60): VDC

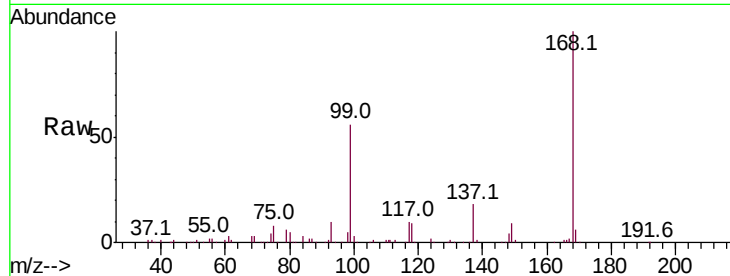




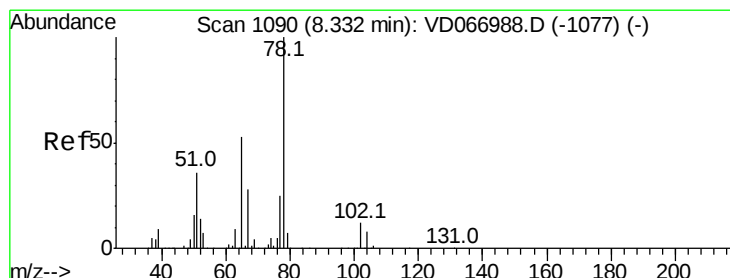
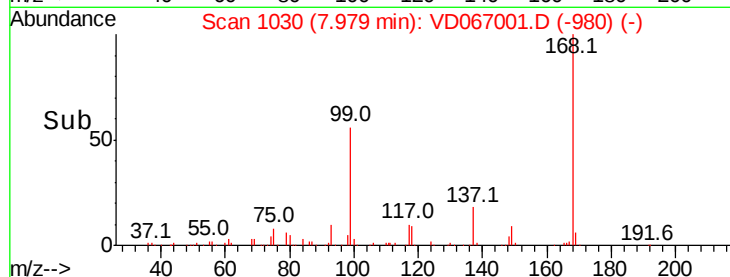
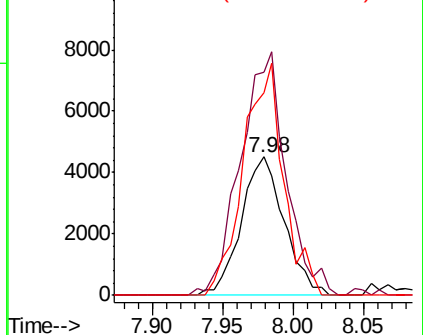
#31  
Cyclohexane  
Concen: 1.381 ug/l  
RT: 7.98 min Scan# 1030  
Delta R.T. -0.01 min  
Lab File: VD067001.D  
Acq: 01 Oct 2020 19:09

Instrument :  
MSVOA\_D  
ClientSampleID :  
RO-15

Tot Ion: 56 Resp: 9655  
Ion Ratio Lower Upper  
56 100  
69 161.5 29.0 43.6#  
84 145.8 74.2 111.2#

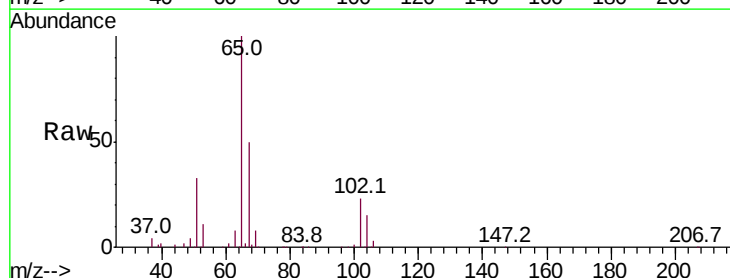


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

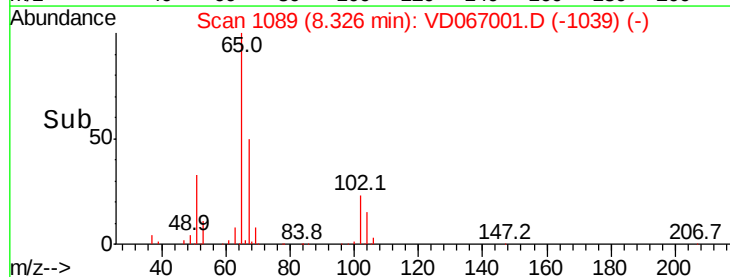
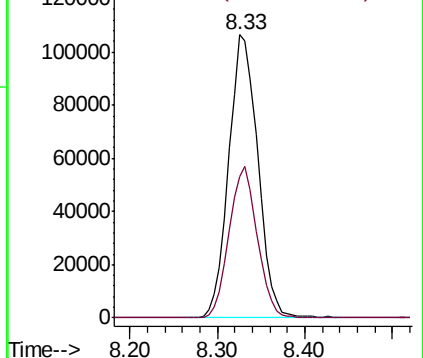


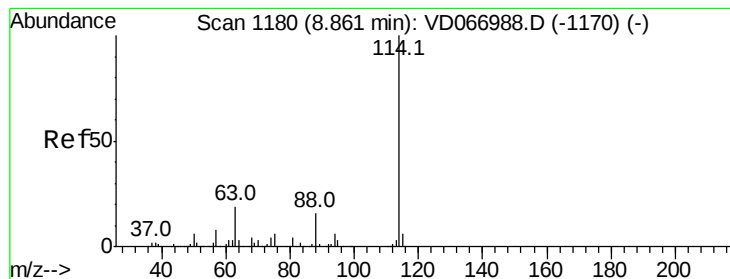
#33  
1,2-Dichloroethane-d4  
Concen: 51.765 ug/l  
RT: 8.33 min Scan# 1089  
Delta R.T. -0.01 min  
Lab File: VD067001.D  
Acq: 01 Oct 2020 19:09

Tgt Ion: 65 Resp: 240947  
Ion Ratio Lower Upper  
65 100  
67 51.6 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: 8.86 min Scan# 1180

Delta R.T. 0.00 min

Lab File: VD067001.D

Acq: 01 Oct 2020 19:09

Instrument :

MSVOA\_D

ClientSampleId :

RO-15

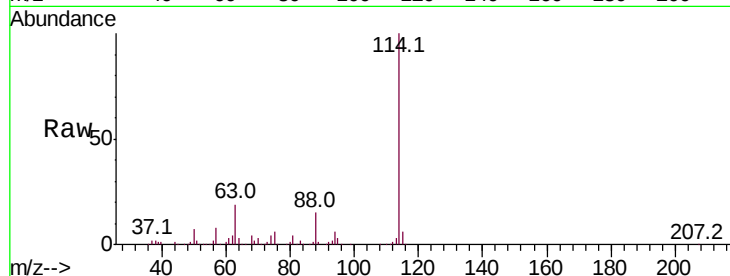
Tot Ion:114 Resp: 805339

Ion Ratio Lower Upper

114 100

63 19.2 0.0 38.4

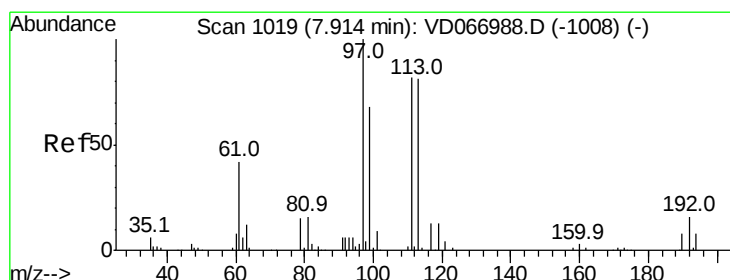
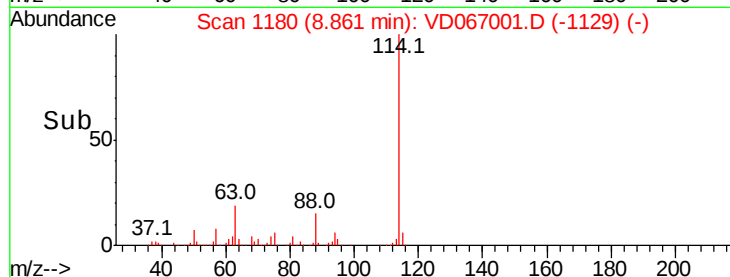
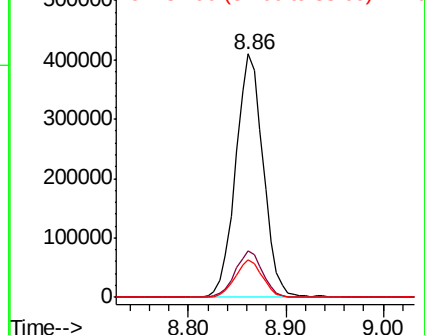
88 15.4 0.0 31.2



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: 49.092 ug/l

RT: 7.91 min Scan# 1019

Delta R.T. 0.00 min

Lab File: VD067001.D

Acq: 01 Oct 2020 19:09

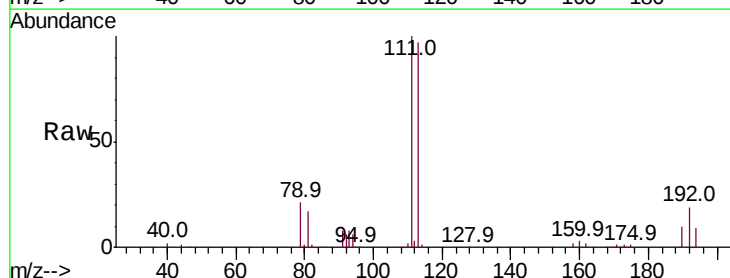
Tgt Ion:113 Resp: 258834

Ion Ratio Lower Upper

113 100

111 103.3 83.0 124.4

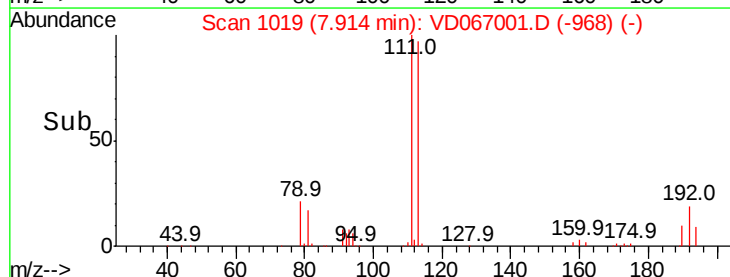
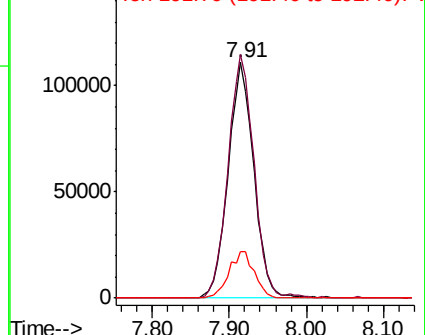
192 19.6 15.5 23.3

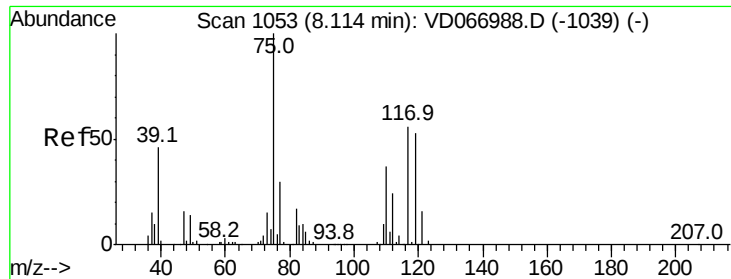


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.908 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.14 min

Lab File: VD067001.D

Acq: 01 Oct 2020 19:09

Instrument :

MSVOA\_D

ClientSampled :

RO-15

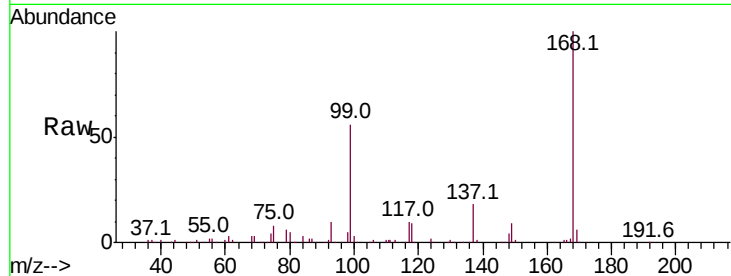
Tot Ion: 75 Resp: 36844

Ion Ratio Lower Upper

75 100

110 9.1 18.4 55.0#

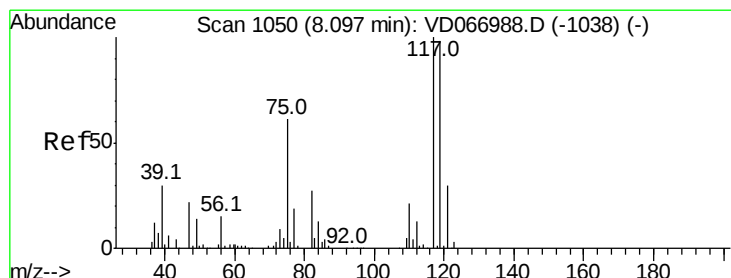
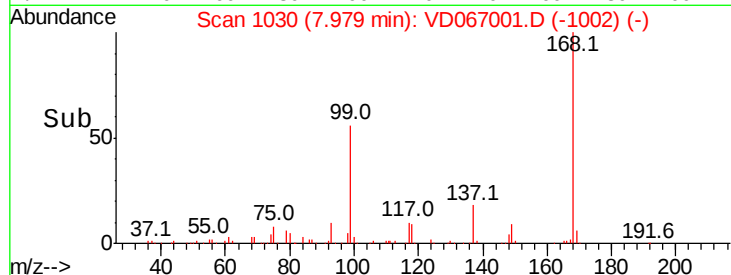
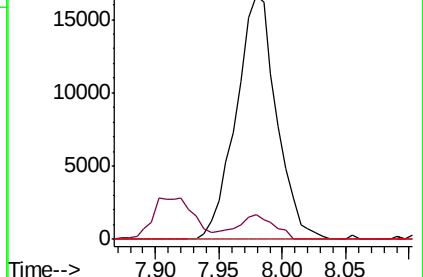
77 0.0 24.8 37.2#



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: 6.182 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.12 min

Lab File: VD067001.D

Acq: 01 Oct 2020 19:09

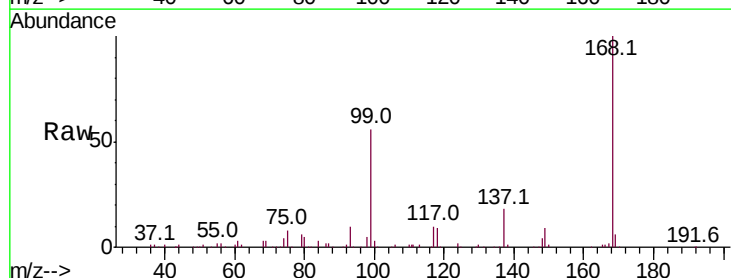
Tgt Ion: 117 Resp: 50210

Ion Ratio Lower Upper

117 100

119 3.9 78.7 118.1#

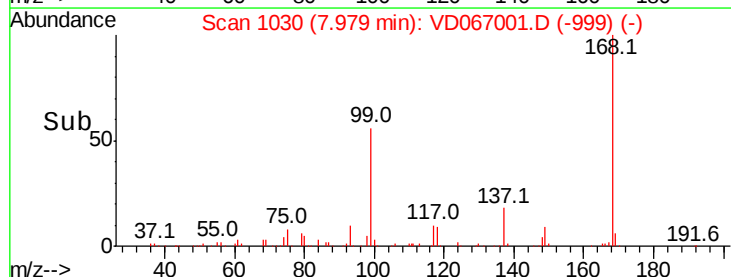
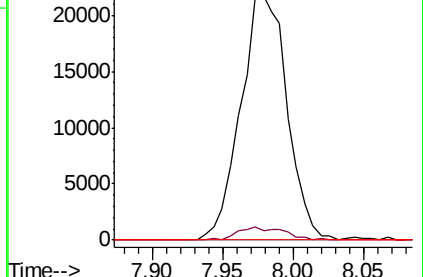
121 0.0 24.2 36.2#

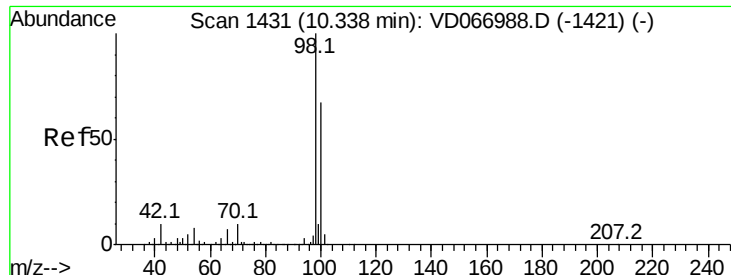


Abundance Ion 116.80 (116.50 to 117.50): VDC

Ion 118.80 (118.50 to 119.50): VDC

Ion 120.80 (120.50 to 121.50): VDC

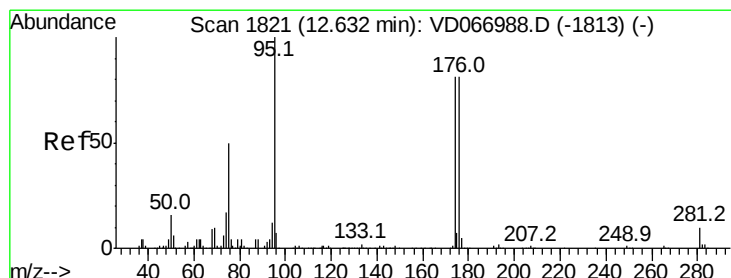
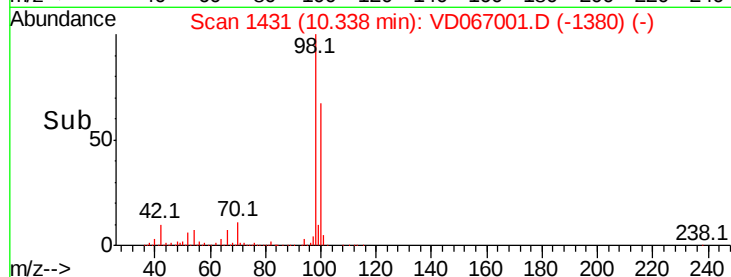
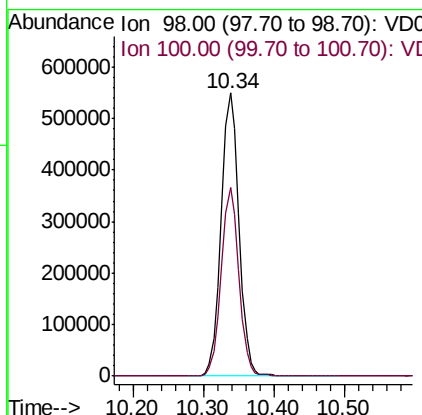
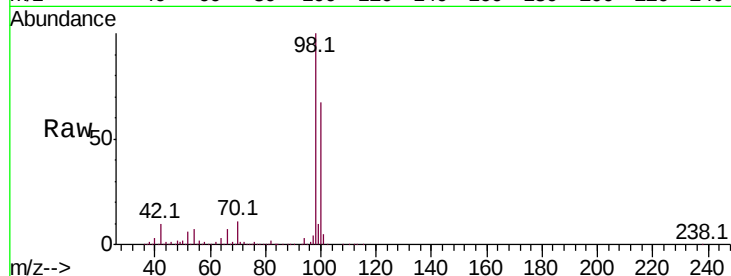




#50  
Toluene-d8  
Concen: 50.376 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VD067001.D  
Acq: 01 Oct 2020 19:09

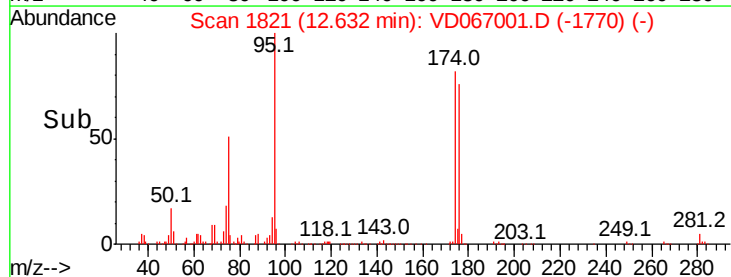
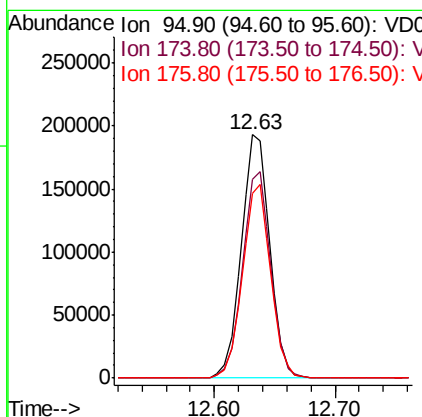
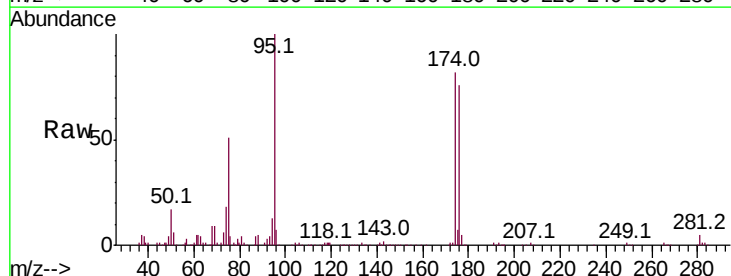
Instrument :  
MSVOA\_D  
ClientSampleId :  
RO-15

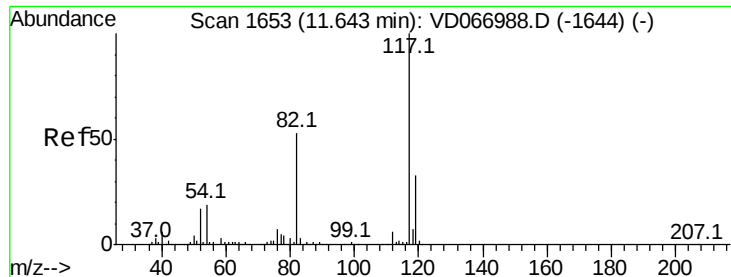
Tot Ion: 98 Resp: 967817  
Ion Ratio Lower Upper  
98 100  
100 65.8 52.8 79.2



#62  
4-Bromofluorobenzene  
Concen: 48.476 ug/l  
RT: 12.63 min Scan# 1821  
Delta R.T. 0.00 min  
Lab File: VD067001.D  
Acq: 01 Oct 2020 19:09

Tgt Ion: 95 Resp: 316161  
Ion Ratio Lower Upper  
95 100  
174 83.9 0.0 167.6  
176 78.6 0.0 162.4

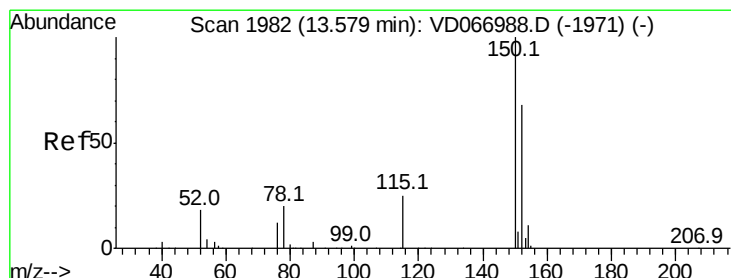
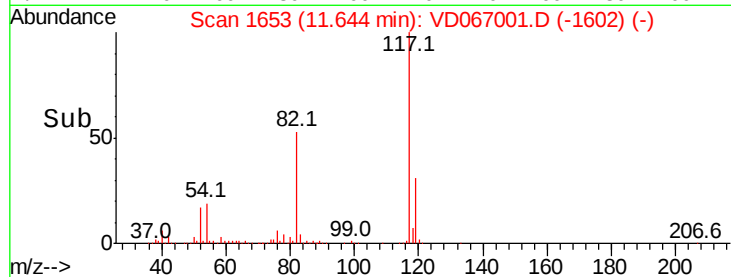
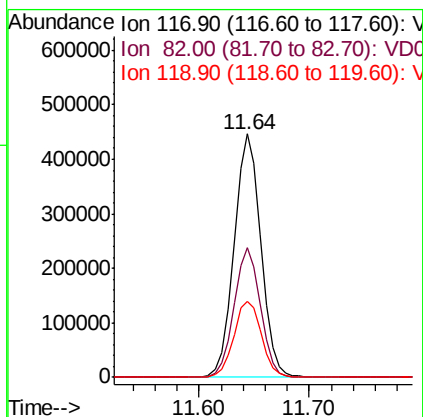
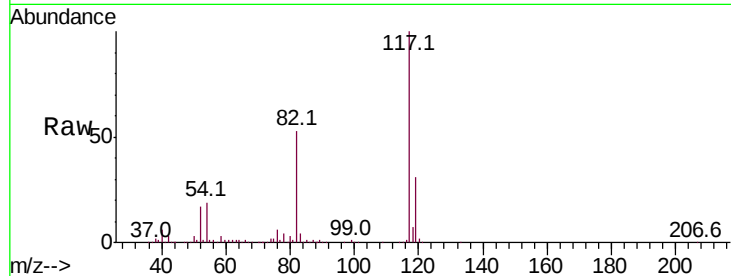




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD067001.D  
Acq: 01 Oct 2020 19:09

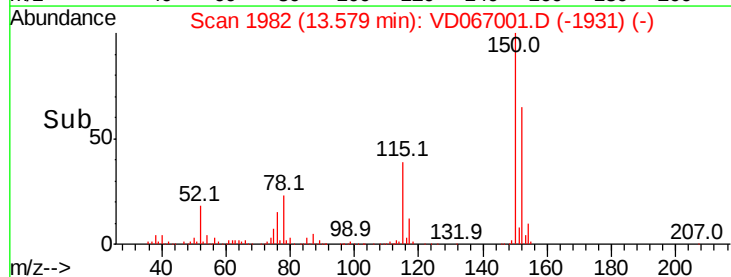
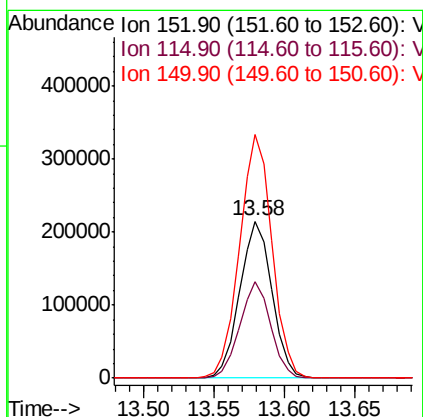
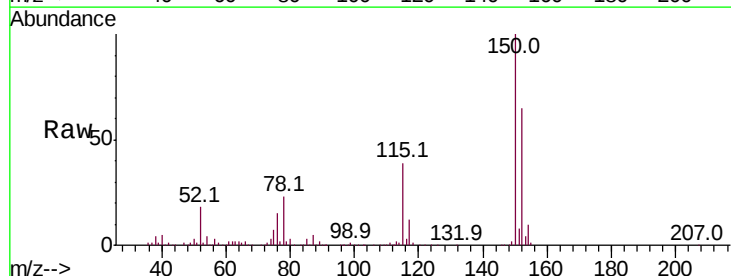
Instrument :  
MSVOA\_D  
ClientSampleId :  
RO-15

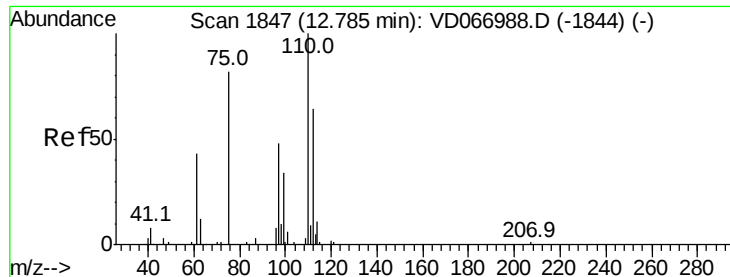
Tot Ion:117 Resp: 758514  
Ion Ratio Lower Upper  
117 100  
82 53.2 42.6 63.8  
119 31.1 26.3 39.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD067001.D  
Acq: 01 Oct 2020 19:09

Tgt Ion:152 Resp: 343111  
Ion Ratio Lower Upper  
152 100  
115 58.8 29.6 88.8  
150 155.6 0.0 344.8





#76

1,2,3-Trichloropropane

Concen: 53.105 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. -0.15 min

Lab File: VD067001.D

Acq: 01 Oct 2020 19:09

Instrument :

MSVOA\_D

ClientSampled :

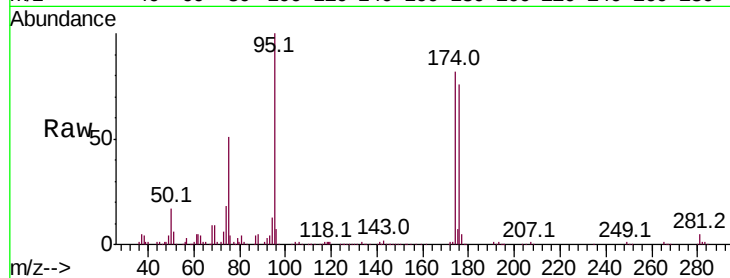
RO-15

Tot Ion: 75 Resp: 158711

Ion Ratio Lower Upper

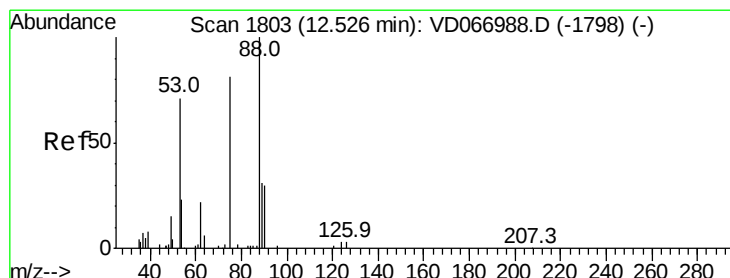
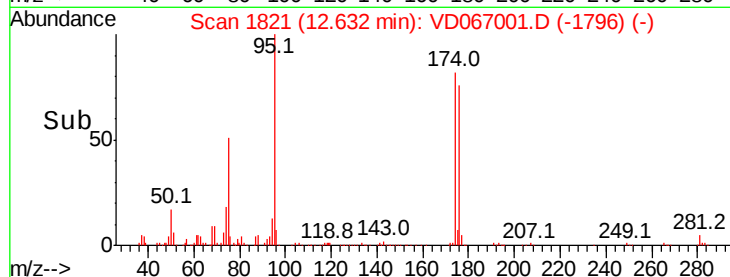
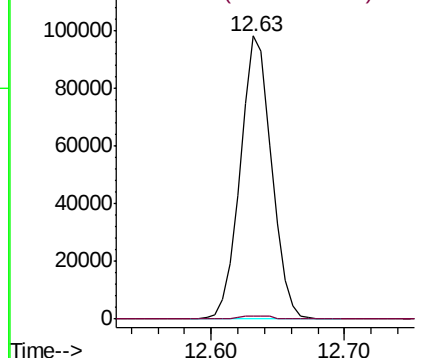
75 100

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: 132.398 ug/l

RT: 12.63 min Scan# 1821

Delta R.T. 0.11 min

Lab File: VD067001.D

Acq: 01 Oct 2020 19:09

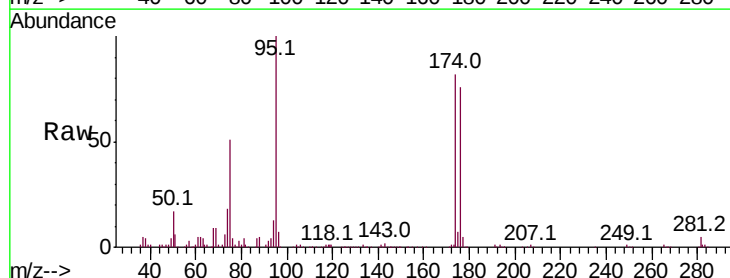
Tgt Ion: 75 Resp: 158711

Ion Ratio Lower Upper

75 100

53 0.0 73.8 110.6#

89 0.0 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

