

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111720\  
 Data File : VD067659.D  
 Acq On : 17 Nov 2020 13:42  
 Operator : VA/SY  
 Sample : L4687-07RE  
 Misc : 5.34G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SS-6

Quant Time: Nov 17 23:58:09 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 04 00:56:28 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 266755   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 440422   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 460377   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 235056   | 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   | 127123   | 54.50 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 109.00% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 137295   | 51.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.48% |          |
| 50) Toluene-d8              | 10.34 | 98   | 519288   | 55.69 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.38% |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 199679   | 62.02 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 124.04% |          |

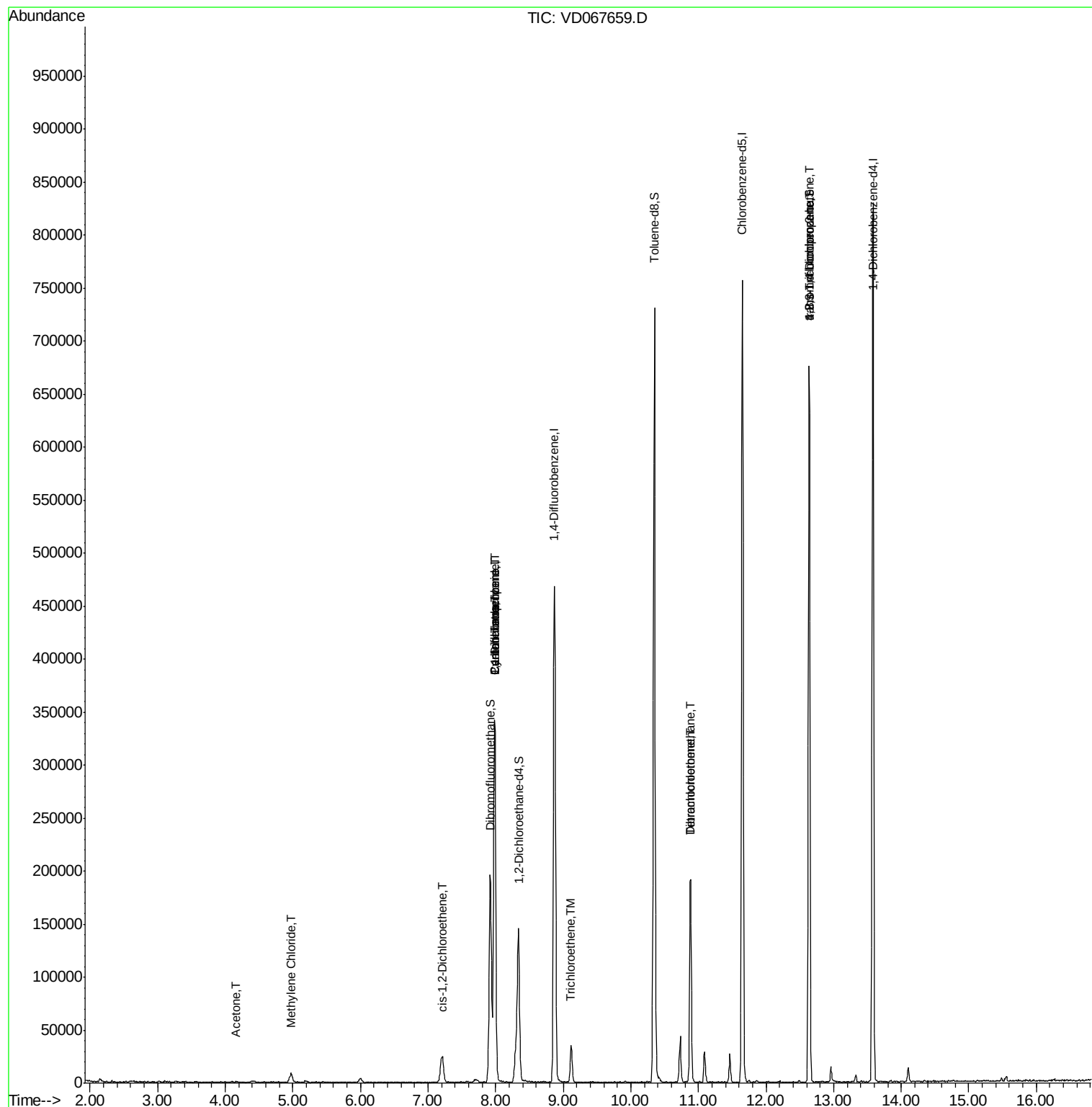
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 2) Dichlorodifluoromethane     | 1.99  | 85   | 547      | Below Cal |        | 81     |
| 11) Tert butyl alcohol         | 5.20  | 59   | 1231     | Below Cal | #      | 79     |
| 16) Acetone                    | 4.16  | 43   | 1340     | 3.839     | ug/l   | 93     |
| 20) Methylene Chloride         | 4.97  | 84   | 7366     | 2.988     | ug/l # | 94     |
| 27) cis-1,2-Dichloroethene     | 7.22  | 96   | 9006     | 3.346     | ug/l   | 90     |
| 31) Cyclohexane                | 7.99  | 56   | 5286     | 1.563     | ug/l # | 21     |
| 36) 1,1-Dichloropropene        | 7.99  | 75   | 18088    | 4.798     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.99  | 117  | 27997    | 5.716     | ug/l # | 17     |
| 44) Trichloroethene            | 9.11  | 130  | 14340    | 4.271     | ug/l   | 76     |
| 60) Dibromochloromethane       | 10.88 | 129  | 39829    | 14.496    | ug/l # | 11     |
| 64) Tetrachloroethene          | 10.88 | 164  | 46327    | 13.588    | ug/l   | 95     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 105108   | 74.125    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 105108   | 150.493   | ug/l # | 10     |

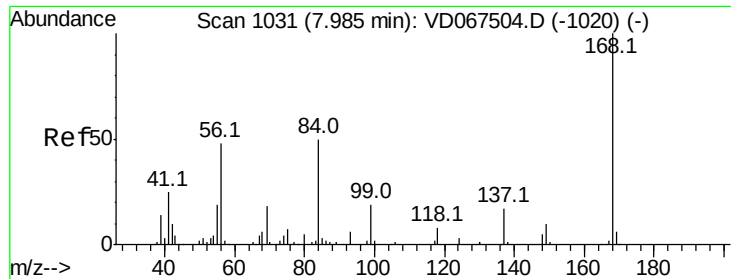
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD11720\  
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Instrument :  
MSVOA\_D  
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SS-6

Quant Time: Nov 17 23:58:09 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110320S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 04 00:56:28 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: VD067659.D

Acq: 17 Nov 2020 13:42

Instrument :

MSVOA\_D

ClientSampleId :

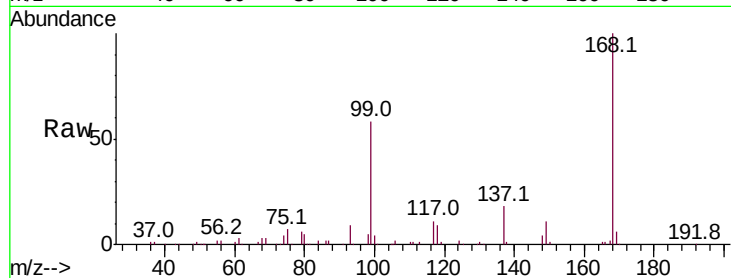
SS-6

Tot Ion:168 Resp: 266755

Ion Ratio Lower Upper

168 100

99 57.8 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

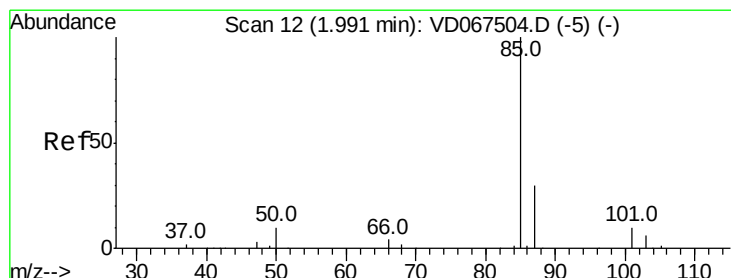
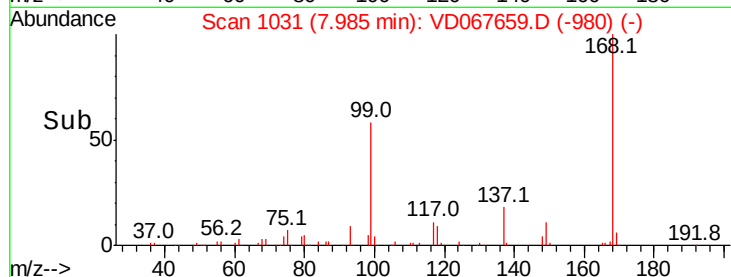
7.99

100000

50000

0

Time-->



#2

Dichlorodifluoromethane

Concen: Below Cal

RT: 1.99 min Scan# 12

Delta R.T. 0.00 min

Lab File: VD067659.D

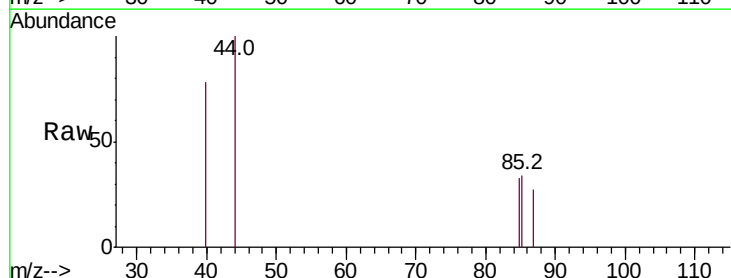
Acq: 17 Nov 2020 13:42

Tgt Ion: 85 Resp: 547

Ion Ratio Lower Upper

85 100

87 41.0 15.3 45.8



Abundance Ion 84.90 (84.60 to 85.60): VDC

Ion 86.90 (86.60 to 87.60): VDC

1.99

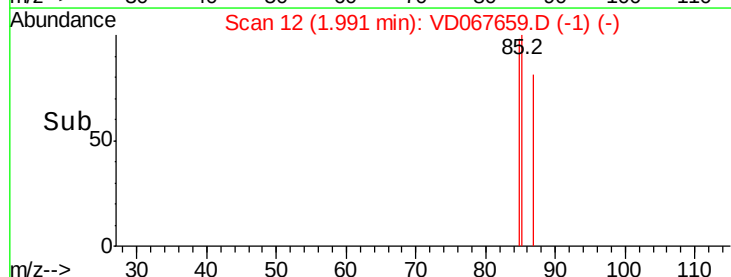
600

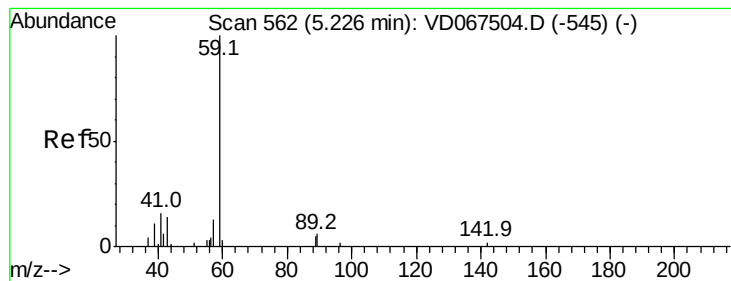
400

200

0

Time-->



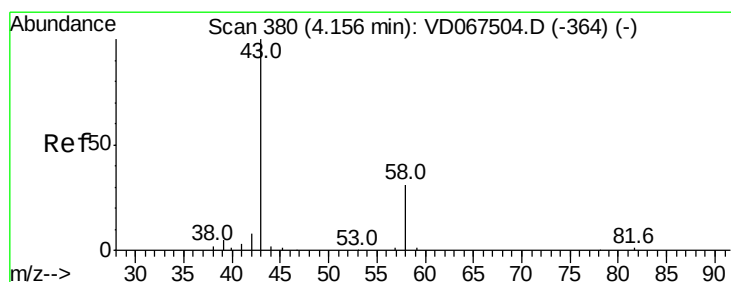
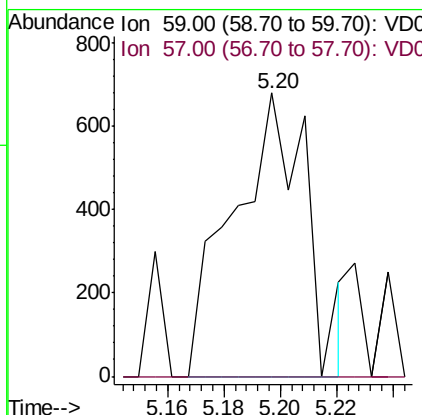
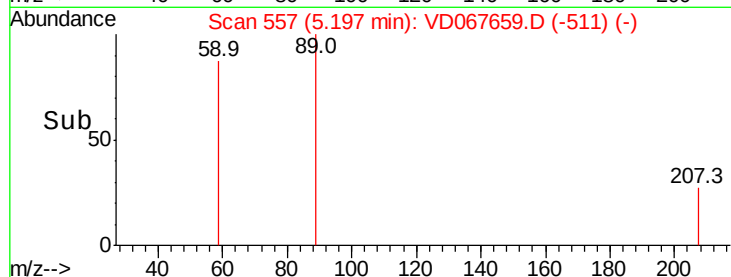
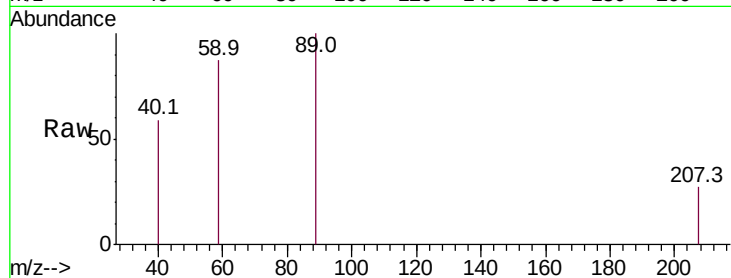


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 5.20 min Scan# 557  
 Delta R.T. -0.03 min  
 Lab File: VD067659.D  
 Acq: 17 Nov 2020 13:42

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 SS-6

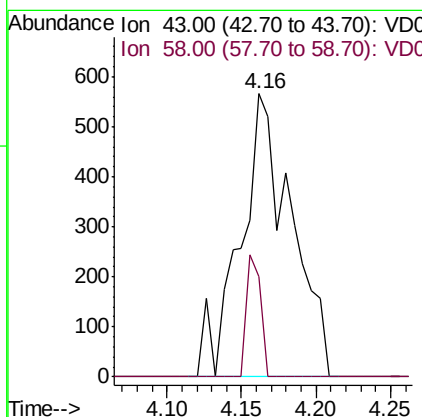
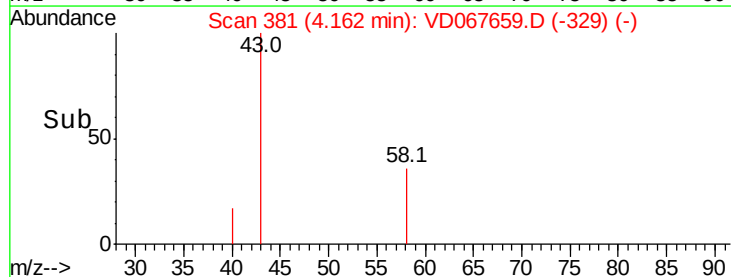
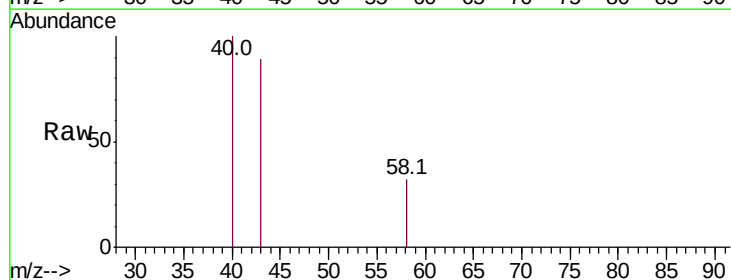
Tot Ion: 59 Resp: 1231  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 5.9 8.9#

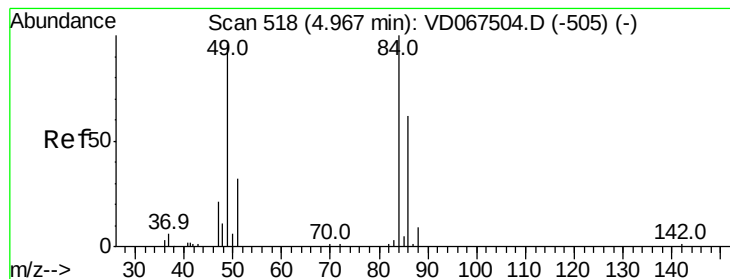


#16

Acetone  
 Concen: 3.839 ug/l  
 RT: 4.16 min Scan# 381  
 Delta R.T. 0.01 min  
 Lab File: VD067659.D  
 Acq: 17 Nov 2020 13:42

Tgt Ion: 43 Resp: 1340  
 Ion Ratio Lower Upper  
 43 100  
 58 35.5 25.2 37.8





#20

Methylene Chloride

Concen: 2.988 ug/l

RT: 4.97 min Scan# 519

Delta R.T. 0.01 min

Lab File: VD067659.D

Acq: 17 Nov 2020 13:42

Instrument :

MSVOA\_D

ClientSampleId :

SS-6

Tot Ion: 84 Resp: 7366

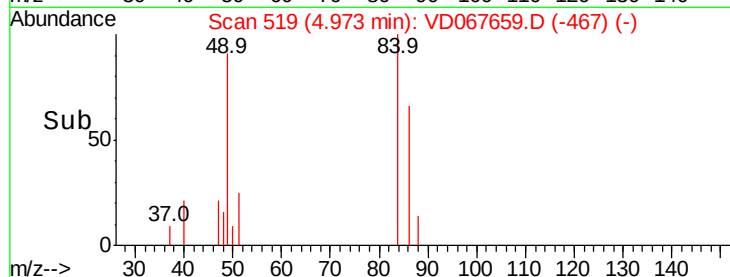
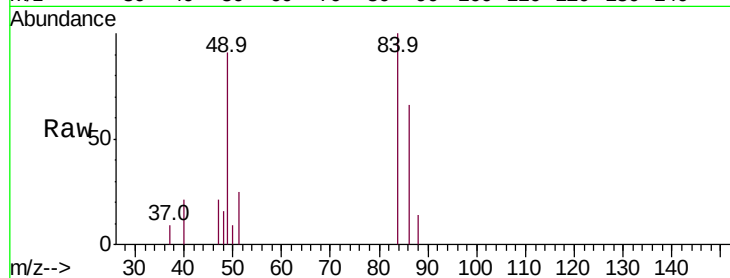
Ion Ratio Lower Upper

84 100

49 91.3 77.0 115.4

51 25.1 25.4 38.2#

86 66.2 49.4 74.0

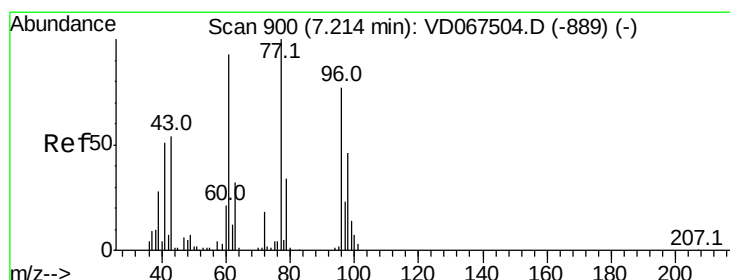
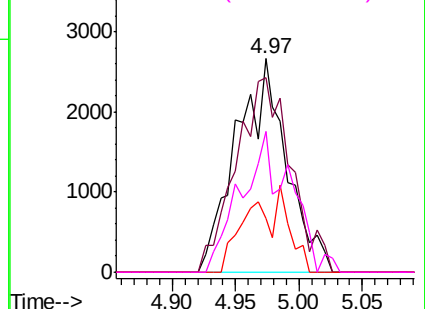


Abundance Ion 83.90 (83.60 to 84.60): VDC

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



#27

cis-1,2-Dichloroethene

Concen: 3.346 ug/l

RT: 7.22 min Scan# 901

Delta R.T. 0.01 min

Lab File: VD067659.D

Acq: 17 Nov 2020 13:42

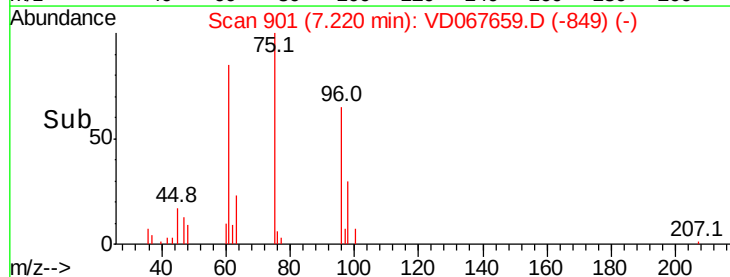
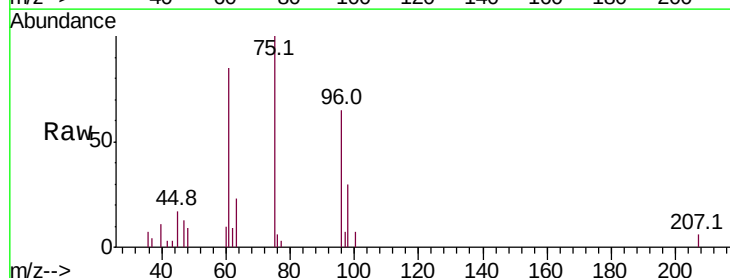
Tgt Ion: 96 Resp: 9006

Ion Ratio Lower Upper

96 100

61 115.6 0.0 251.6

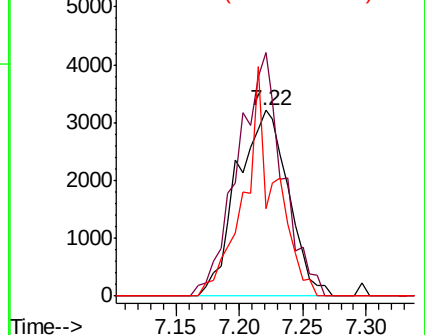
98 73.1 0.0 128.0

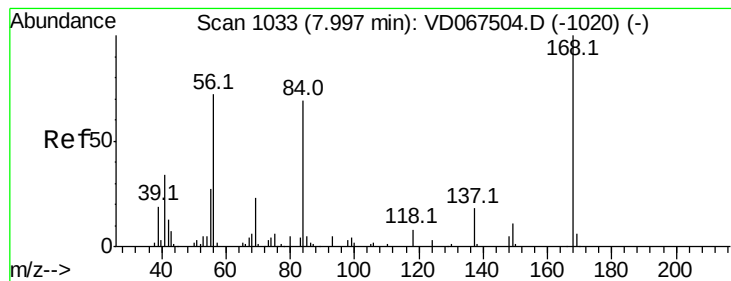


Abundance Ion 95.90 (95.60 to 96.60): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 97.90 (97.60 to 98.60): VDC





#31

Cyclohexane

Concen: 1.563 ug/l

RT: 7.99 min Scan# 1032

Delta R.T. -0.01 min

Lab File: VD067659.D

Acq: 17 Nov 2020 13:42

Instrument :

MSVOA\_D

ClientSampleId :

SS-6

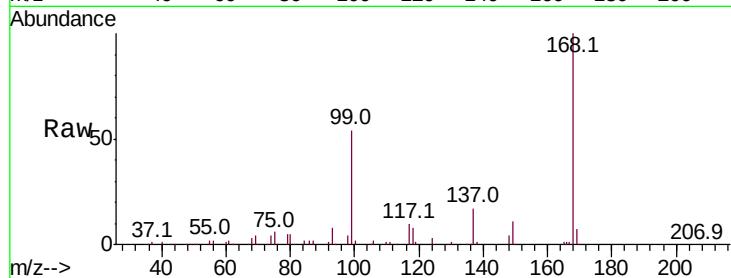
Tot Ion: 56 Resp: 5286

Ion Ratio Lower Upper

56 100

69 192.4 25.9 38.9#

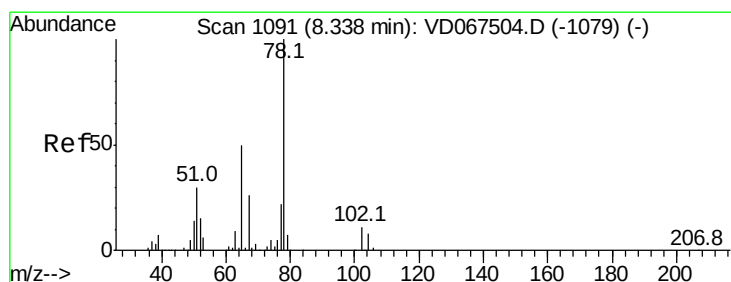
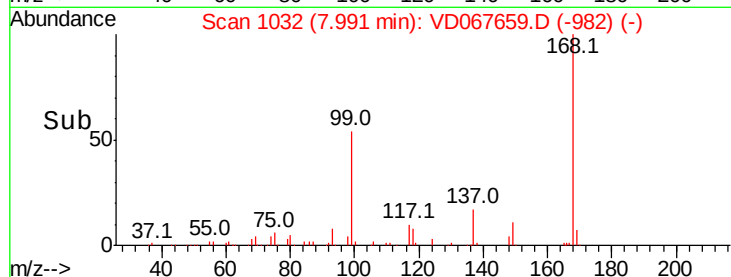
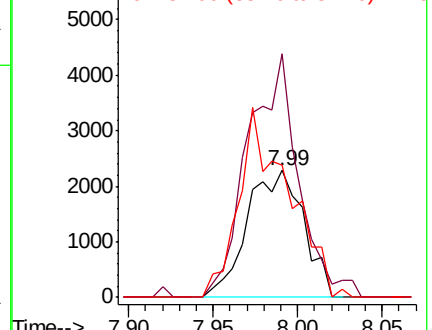
84 104.4 76.2 114.4



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: 54.501 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD067659.D

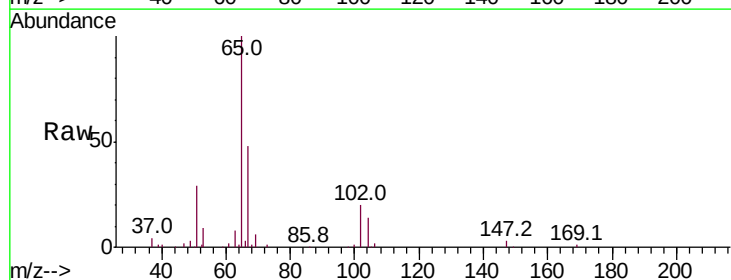
Acq: 17 Nov 2020 13:42

Tgt Ion: 65 Resp: 127123

Ion Ratio Lower Upper

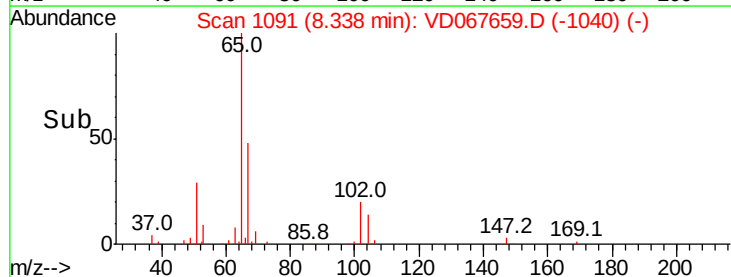
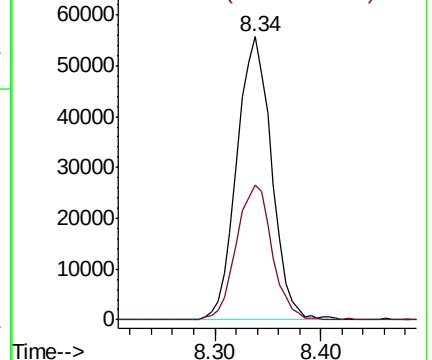
65 100

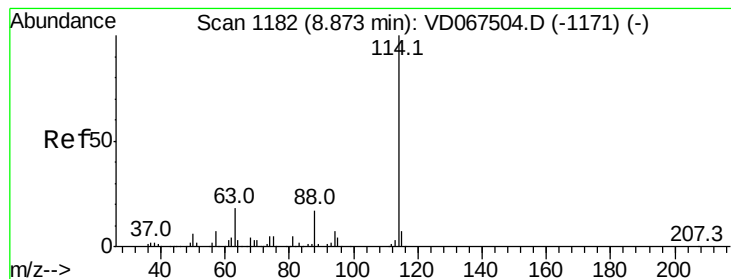
67 48.9 0.0 99.4



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. 0.00 min

Lab File: VD067659.D

Acq: 17 Nov 2020 13:42

Instrument :

MSVOA\_D

ClientSampled :

SS-6

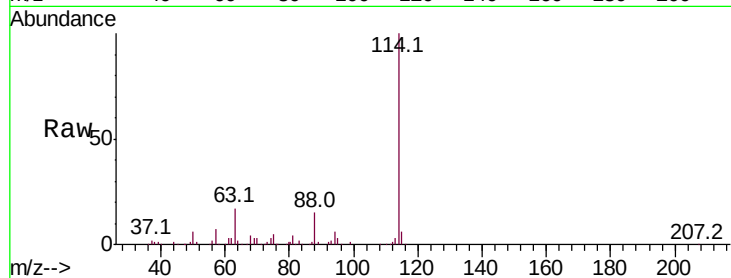
Tot Ion:114 Resp: 440422

Ion Ratio Lower Upper

114 100

63 17.0 0.0 35.0

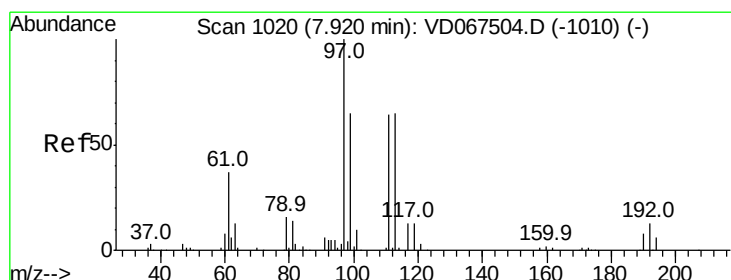
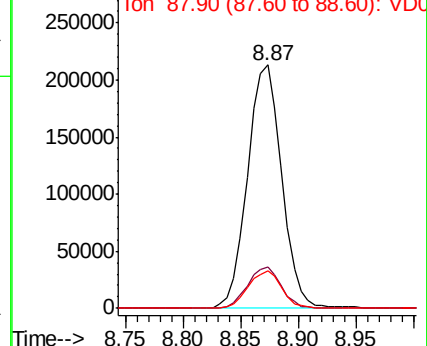
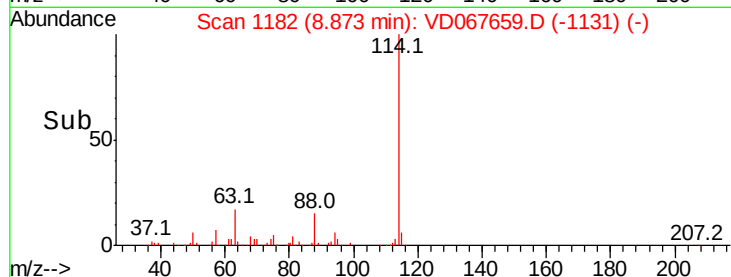
88 15.4 0.0 33.0



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: 51.741 ug/l

RT: 7.92 min Scan# 1020

Delta R.T. 0.00 min

Lab File: VD067659.D

Acq: 17 Nov 2020 13:42

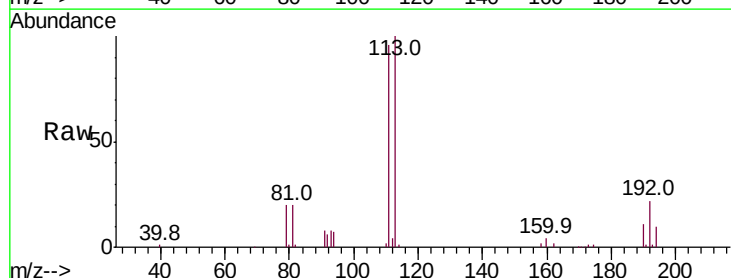
Tgt Ion:113 Resp: 137295

Ion Ratio Lower Upper

113 100

111 100.6 80.0 120.0

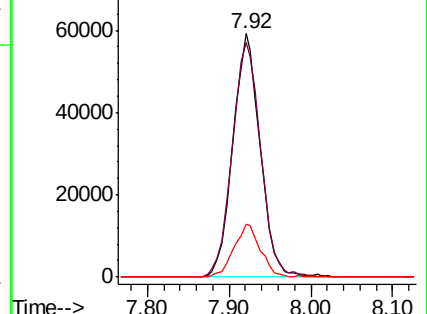
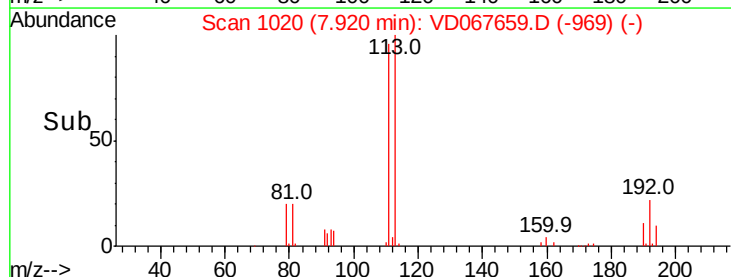
192 21.0 16.3 24.5

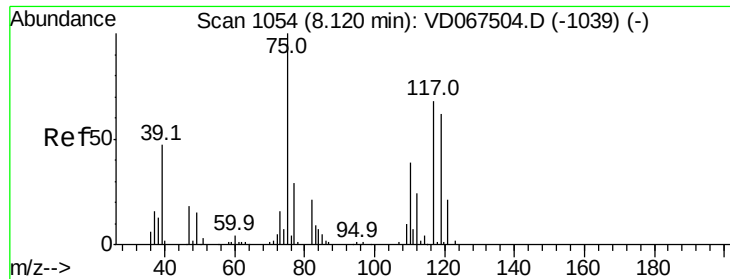


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

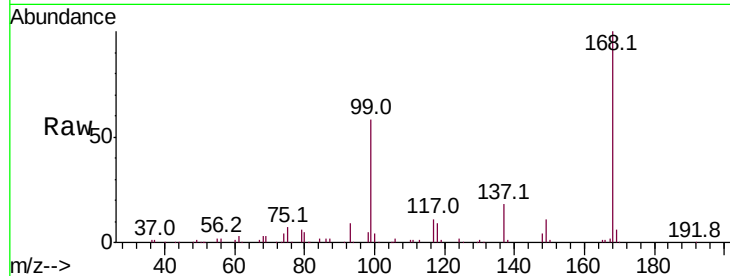




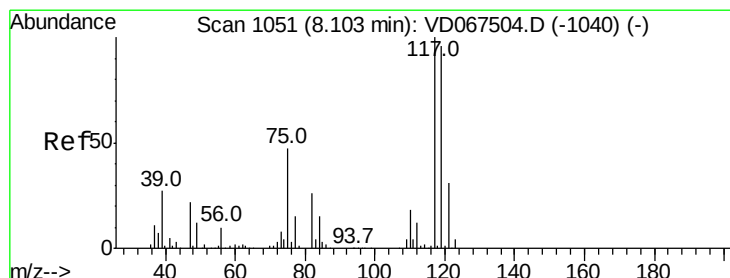
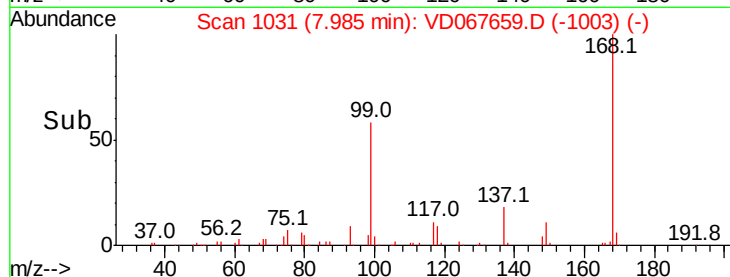
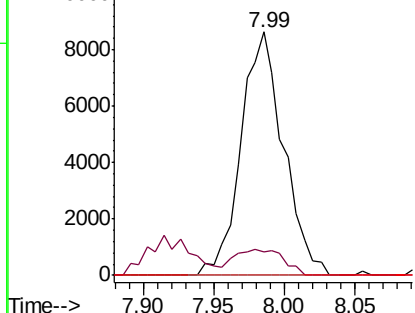
#36  
 1,1-Dichloropropene  
 Concen: 4.798 ug/l  
 RT: 7.99 min Scan# 1031  
 Delta R.T. -0.14 min  
 Lab File: VD067659.D  
 Acq: 17 Nov 2020 13:42

Instrument :  
 MSVOA\_D  
 ClientSampleID :  
 SS-6

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 12.2  | 19.9  | 59.7# |
| 77      | 0.0   | 24.8  | 37.2# |

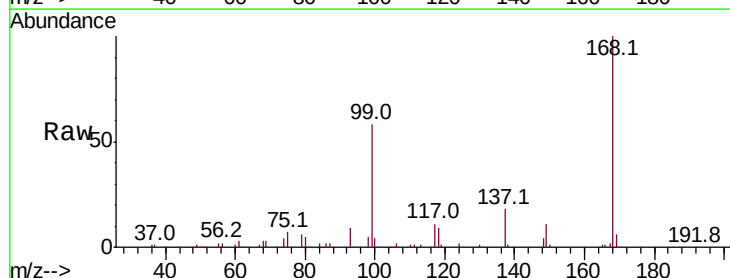


Abundance Ion 74.90 (74.60 to 75.60): VDC  
 Ion 109.90 (109.60 to 110.60): VDC  
 Ion 76.90 (76.60 to 77.60): VDC

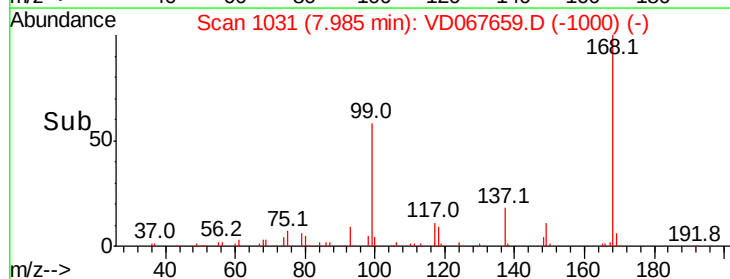
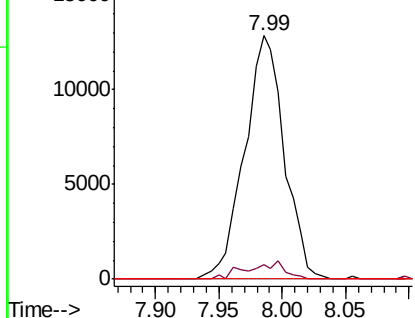


#38  
 Carbon Tetrachloride  
 Concen: 5.716 ug/l  
 RT: 7.99 min Scan# 1031  
 Delta R.T. -0.12 min  
 Lab File: VD067659.D  
 Acq: 17 Nov 2020 13:42

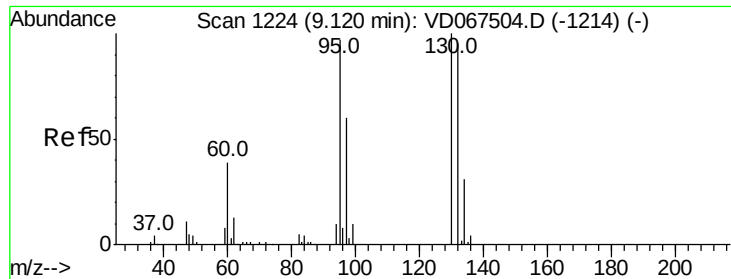
| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 6.0   | 76.9  | 115.3# |
| 121     | 0.0   | 24.5  | 36.7#  |



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







#44

Trichloroethene

Concen: 4.271 ug/l

RT: 9.11 min Scan# 1223

Delta R.T. -0.01 min

Lab File: VD067659.D

Acq: 17 Nov 2020 13:42

Instrument :

MSVOA\_D

ClientSampleId :

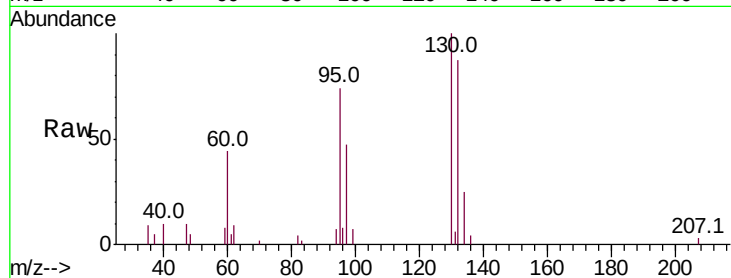
SS-6

Tot Ion:130 Resp: 14340

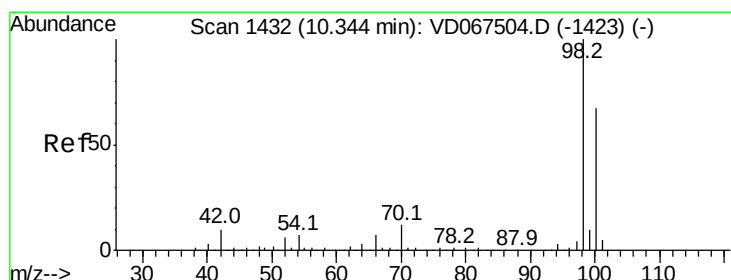
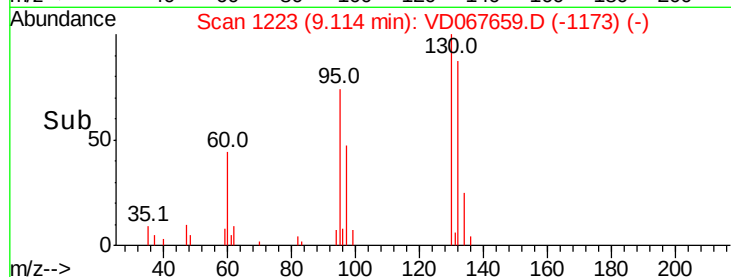
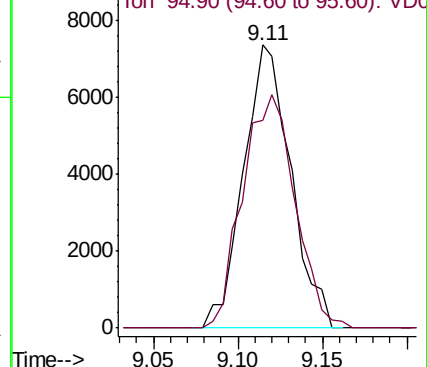
Ion Ratio Lower Upper

130 100

95 73.6 0.0 194.4



Abundance Ion 129.80 (129.50 to 130.50): V



#50

Toluene-d8

Concen: 55.687 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD067659.D

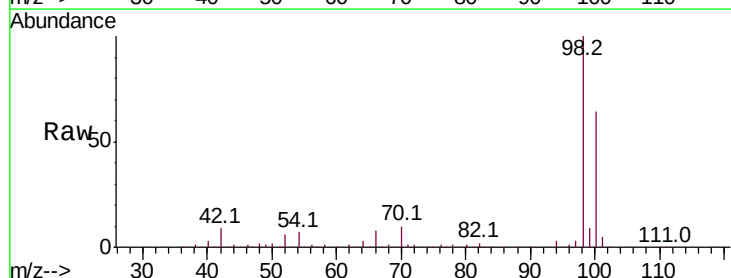
Acq: 17 Nov 2020 13:42

Tgt Ion: 98 Resp: 519288

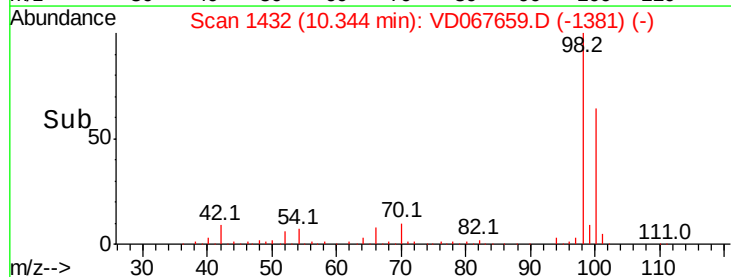
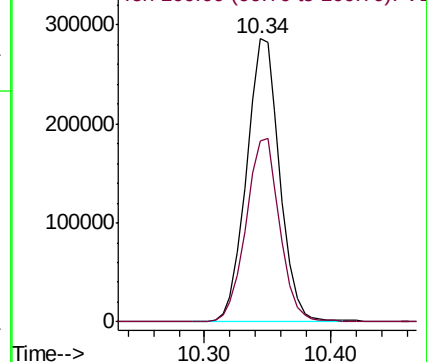
Ion Ratio Lower Upper

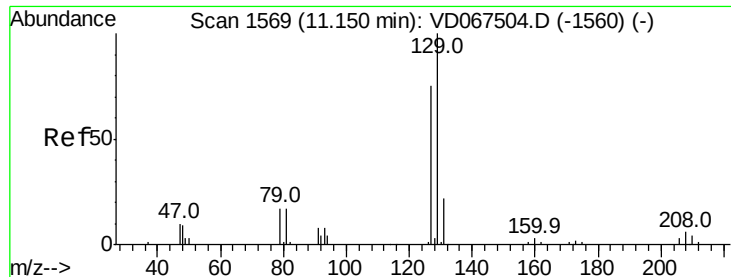
98 100

100 66.0 53.0 79.6



Abundance Ion 98.00 (97.70 to 98.70): VDC

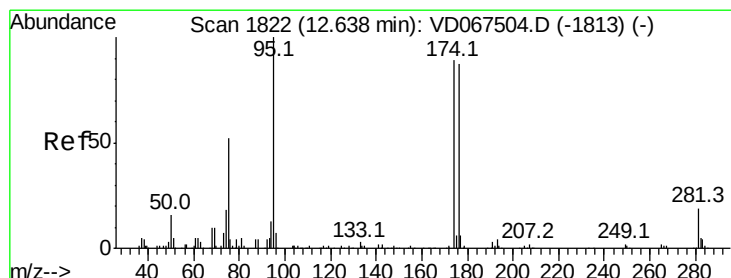
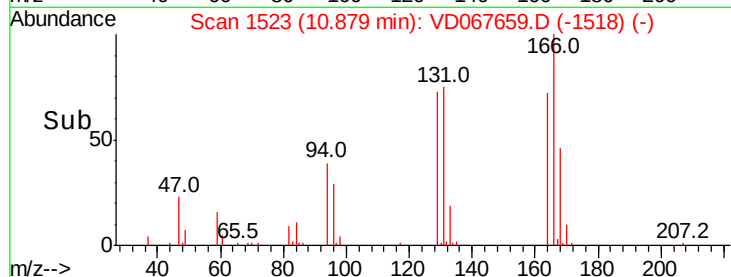
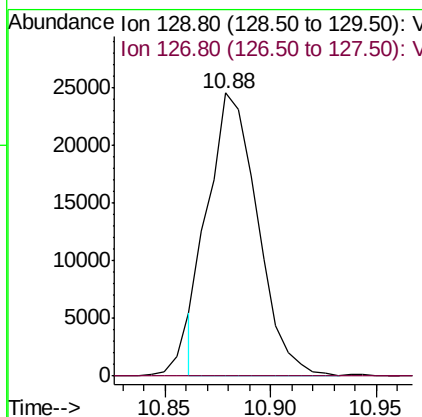
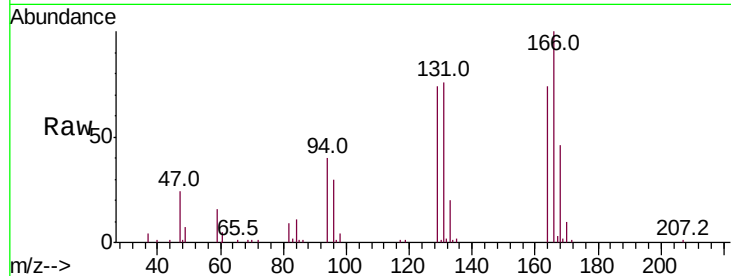




#60  
Dibromochloromethane  
Concen: 14.496 ug/l  
RT: 10.88 min Scan# 1523  
Delta R.T. -0.27 min  
Lab File: VD067659.D  
Acq: 17 Nov 2020 13:42

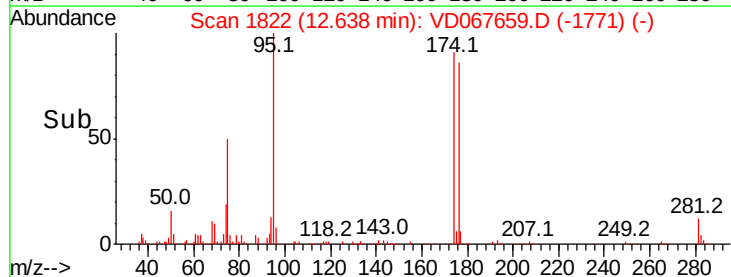
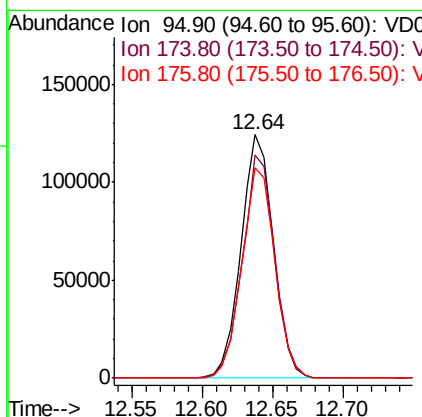
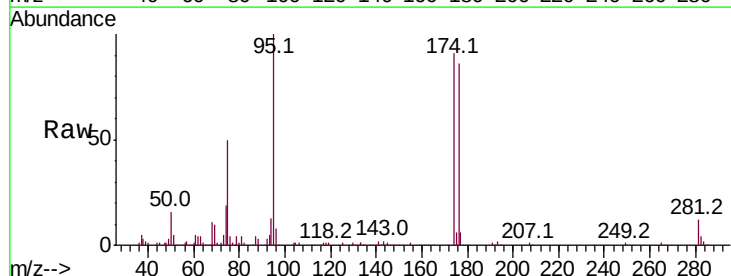
Instrument :  
MSVOA\_D  
ClientSampleId :  
SS-6

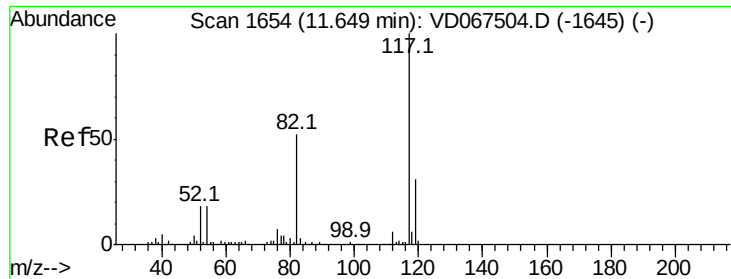
Tot Ion:129 Resp: 39829  
Ion Ratio Lower Upper  
129 100  
127 0.0 38.0 114.1#



#62  
4-Bromofluorobenzene  
Concen: 62.022 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD067659.D  
Acq: 17 Nov 2020 13:42

Tgt Ion: 95 Resp: 199679  
Ion Ratio Lower Upper  
95 100  
174 91.8 0.0 177.8  
176 88.3 0.0 172.0

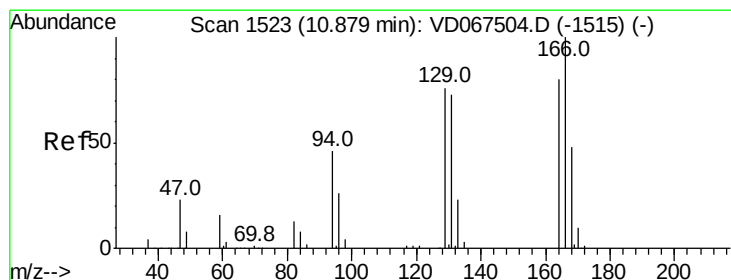
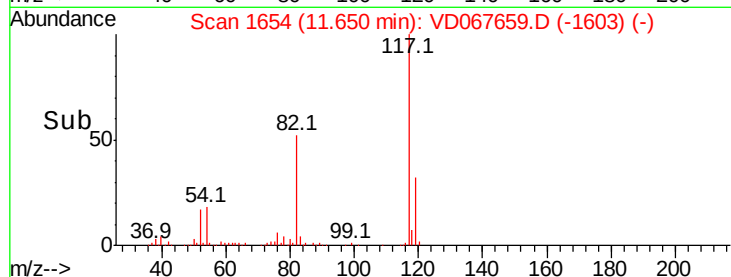
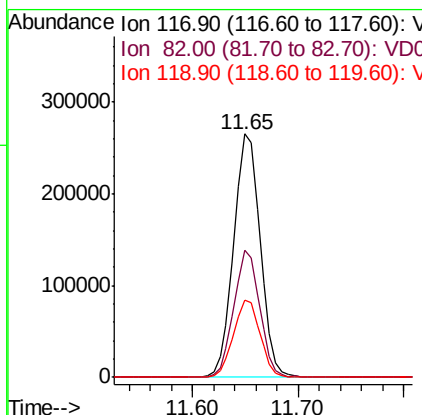
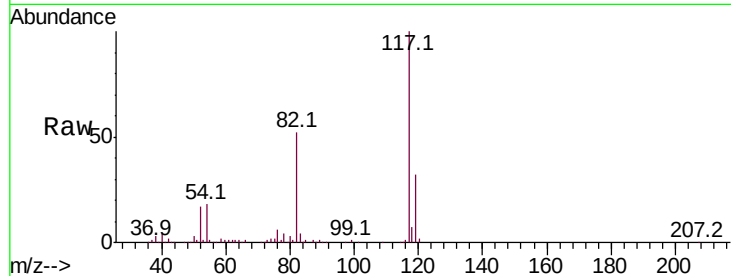




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067659.D  
Acq: 17 Nov 2020 13:42

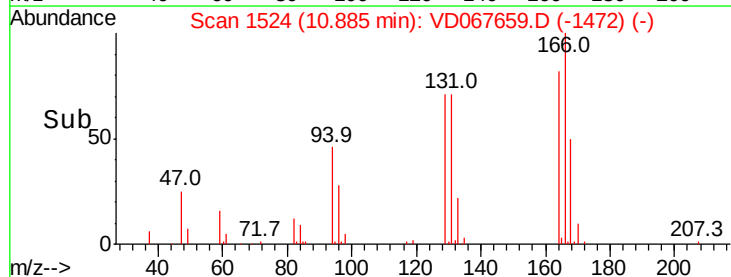
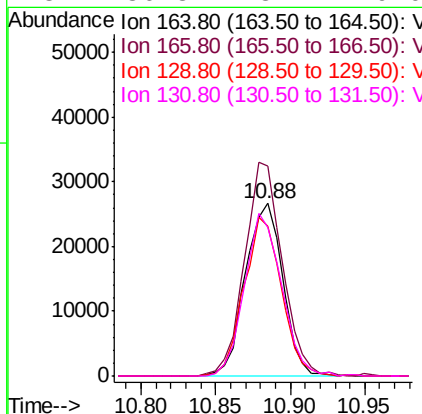
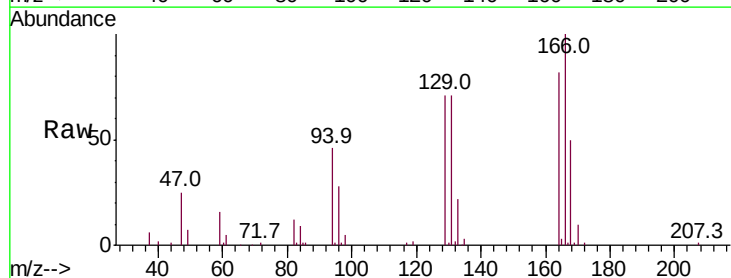
Instrument :  
MSVOA\_D  
ClientSampleId :  
SS-6

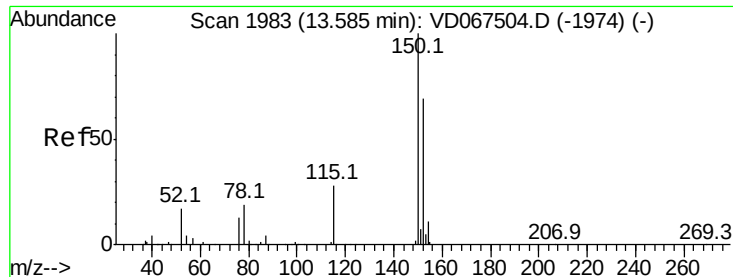
Tot Ion:117 Resp: 460377  
Ion Ratio Lower Upper  
117 100  
82 52.5 41.6 62.4  
119 31.7 25.1 37.7



#64  
Tetrachloroethene  
Concen: 13.588 ug/l  
RT: 10.88 min Scan# 1524  
Delta R.T. 0.01 min  
Lab File: VD067659.D  
Acq: 17 Nov 2020 13:42

Tgt Ion:164 Resp: 46327  
Ion Ratio Lower Upper  
164 100  
166 121.5 99.9 149.9  
129 86.6 75.5 113.3  
131 86.3 73.4 110.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1983

Delta R.T. 0.00 min

Lab File: VD067659.D

Acq: 17 Nov 2020 13:42

Instrument :

MSVOA\_D

ClientSampleId :

SS-6

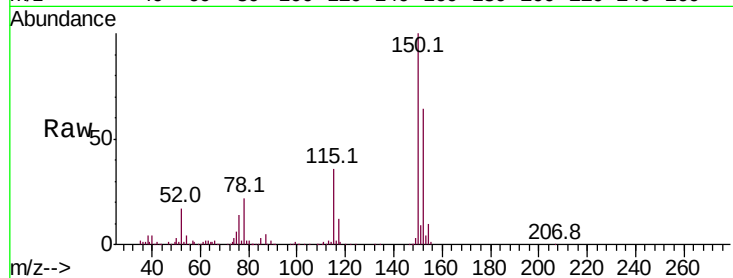
Tot Ion:152 Resp: 235056

Ion Ratio Lower Upper

152 100

115 58.3 29.3 88.0

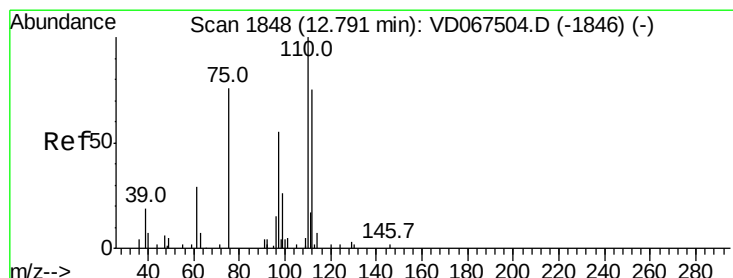
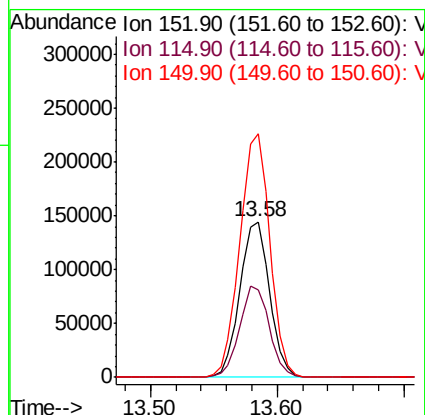
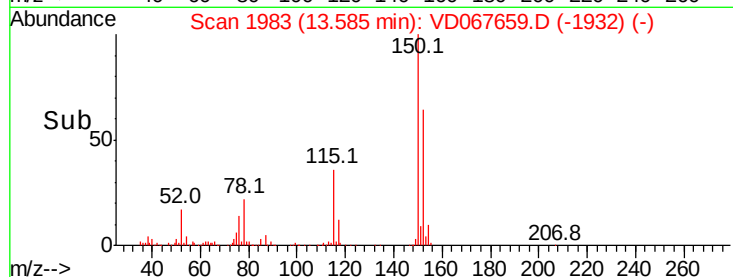
150 158.1 0.0 338.2



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: 74.125 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. -0.15 min

Lab File: VD067659.D

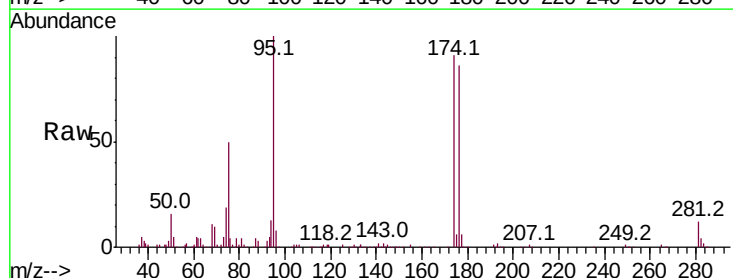
Acq: 17 Nov 2020 13:42

Tgt Ion: 75 Resp: 105108

Ion Ratio Lower Upper

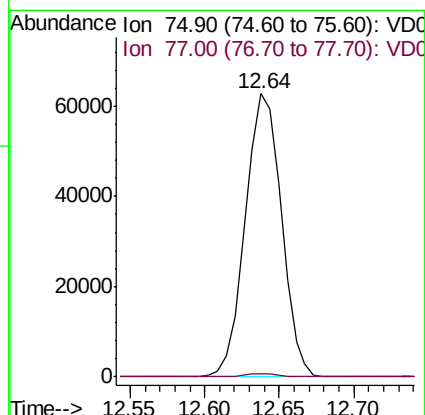
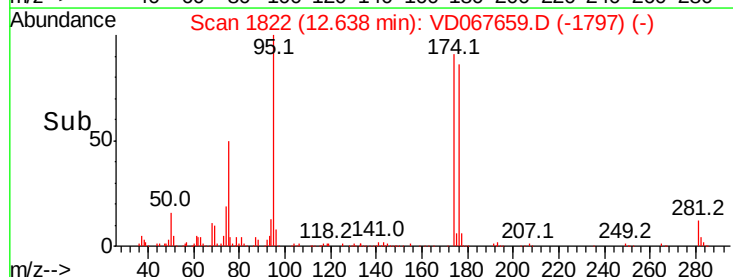
75 100

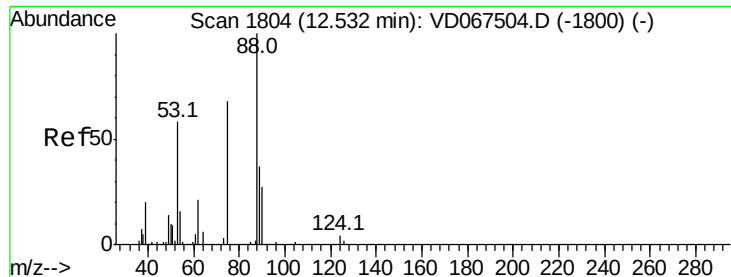
77 1.2 0.0 0.0#



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: 150.493 ug/l

RT: 12.64 min Scan# 1822

Delta R.T. 0.11 min

Lab File: VD067659.D

Acq: 17 Nov 2020 13:42

Instrument :

MSVOA\_D

ClientSampleId :

SS-6

Tot Ion: 75 Resp: 105108

Ion Ratio Lower Upper

75 100

53 0.1 75.9 113.9#

89 0.0 44.6 67.0#

