

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041320\  
 Data File : VD065623.D  
 Acq On : 13 Apr 2020 18:12  
 Operator : VA/SY  
 Sample : L2229-23  
 Misc : 6.25G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 TP-17

Quant Time: Apr 14 02:13:40 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D040920S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Apr 10 01:39:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.99  | 168  | 427694   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 826297   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 824590   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 380299   | 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   | 249641   | 61.72 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 123.44% |          |
| 35) Dibromofluoromethane    | 7.92  | 113  | 289029   | 50.07 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.14% |          |
| 50) Toluene-d8              | 10.34 | 98   | 990542   | 46.99 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.98%  |          |
| 62) 4-Bromofluorobenzene    | 12.64 | 95   | 329584   | 48.65 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.30%  |          |

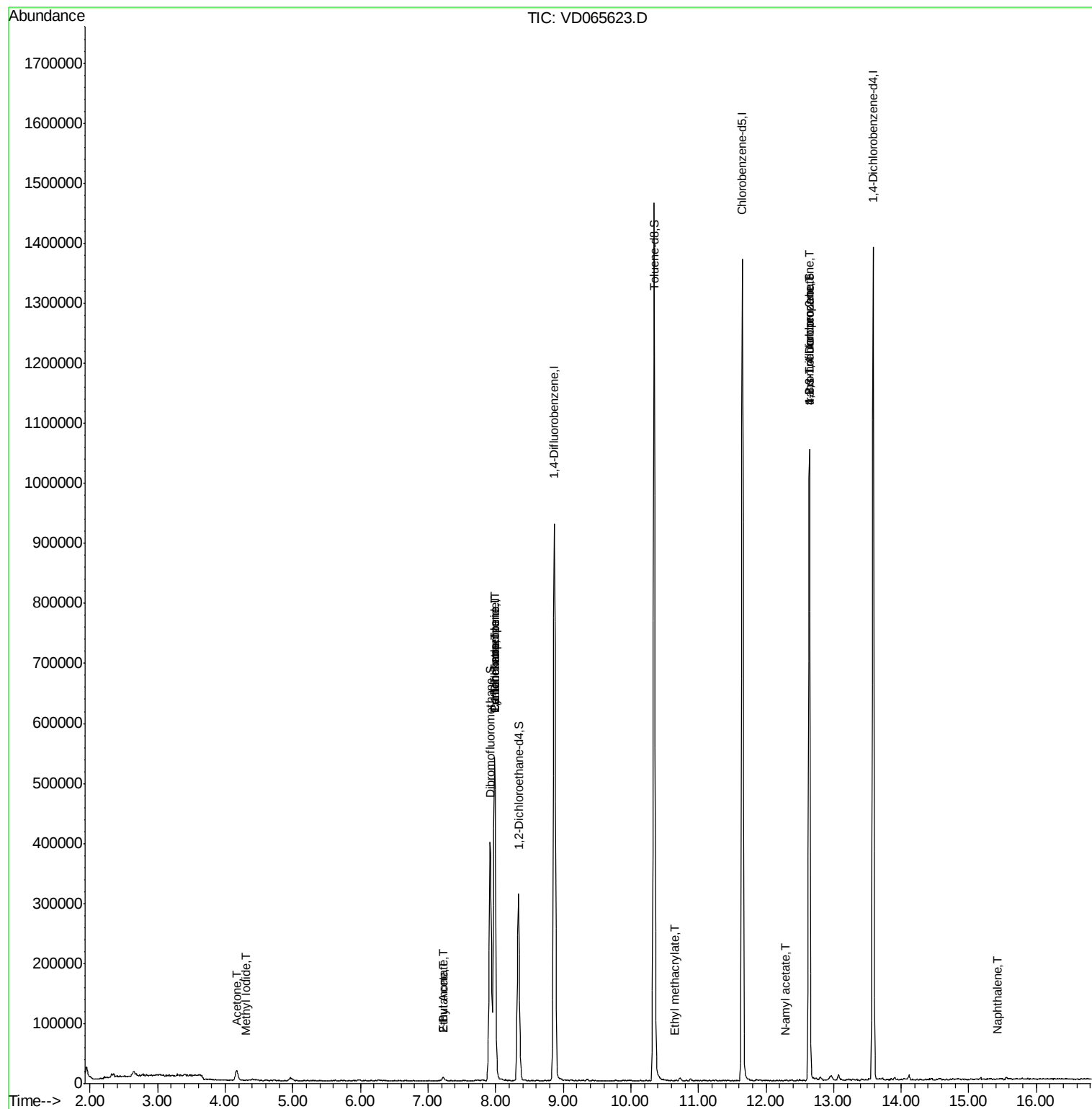
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 10) Methyl Iodide              | 4.31  | 142  | 321      | 2.641   | ug/l # | 60     |
| 16) Acetone                    | 4.17  | 43   | 29552    | 40.459  | ug/l   | 99     |
| 25) 2-Butanone                 | 7.23  | 43   | 7532     | 7.534   | ug/l   | 94     |
| 31) Cyclohexane                | 7.99  | 56   | 8351     | 1.157   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.99  | 75   | 29869    | 3.511   | ug/l # | 49     |
| 37) Ethyl Acetate              | 7.23  | 43   | 7532     | 2.385   | ug/l # | 83     |
| 38) Carbon Tetrachloride       | 7.99  | 117  | 38966    | 4.218   | ug/l # | 14     |
| 56) Ethyl methacrylate         | 10.66 | 69   | 59       | 3.323   | ug/l # | 24     |
| 74) N-amyl acetate             | 12.29 | 43   | 128      | 2.955   | ug/l # | 47     |
| 76) 1,2,3-Trichloropropane     | 12.64 | 75   | 159256   | 52.214  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.64 | 75   | 159256   | 120.946 | ug/l # | 13     |
| 95) Naphthalene                | 15.41 | 128  | 1589     | 4.109   | ug/l # | 87     |

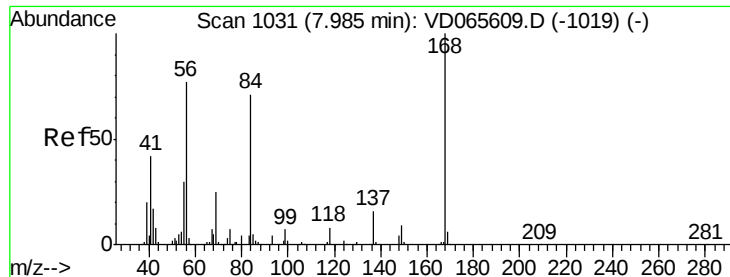
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD041320\  
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Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-17

Quant Time: Apr 14 02:13:40 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D040920S.M  
Quant Title : SW846 8260  
QLast Update : Fri Apr 10 01:39:58 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: VD065623.D

Acq: 13 Apr 2020 18:12

Instrument :

MSVOA\_D

ClientSampled :

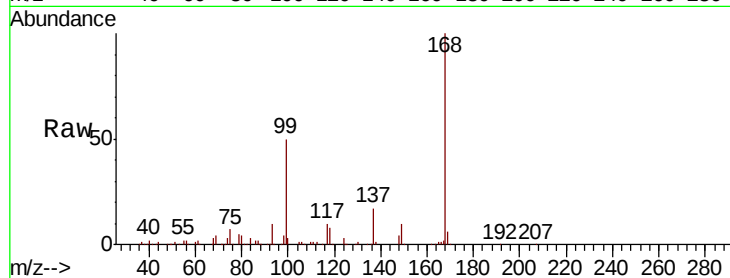
TP-17

Tot Ion:168 Resp: 427694

Ion Ratio Lower Upper

168 100

99 50.5 40.2 60.2



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): V

7.99

200000

150000

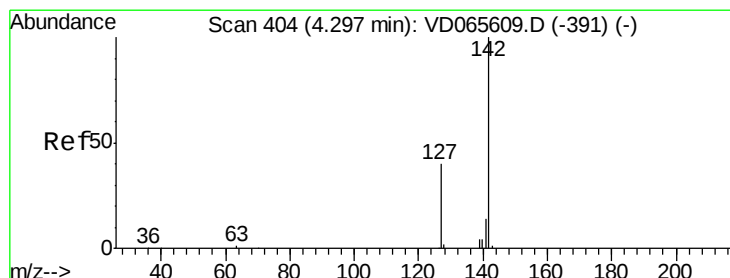
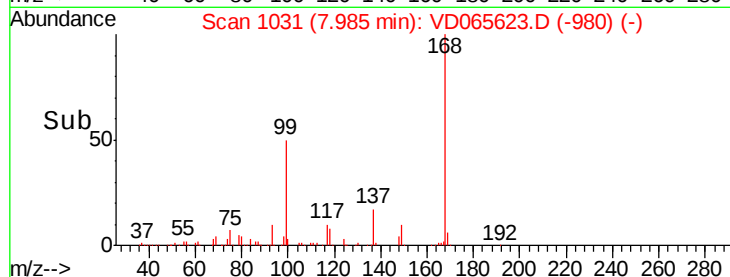
100000

50000

0

Time-->

7.90 8.00 8.10 8.20



#10

Methyl Iodide

Concen: 2.641 ug/l

RT: 4.31 min Scan# 406

Delta R.T. 0.01 min

Lab File: VD065623.D

Acq: 13 Apr 2020 18:12

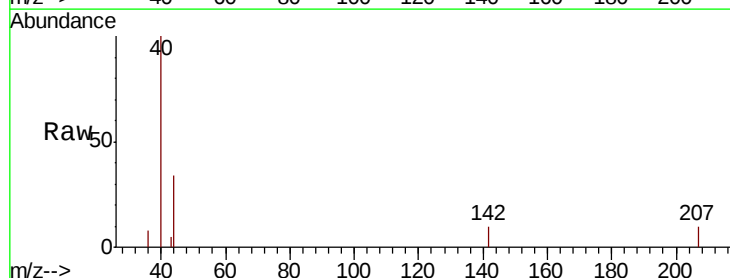
Tgt Ion:142 Resp: 321

Ion Ratio Lower Upper

142 100

127 16.5 34.6 51.8#

141 0.0 11.7 17.5#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

4.31

400

300

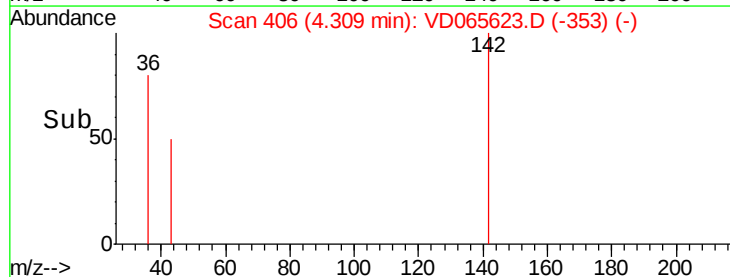
200

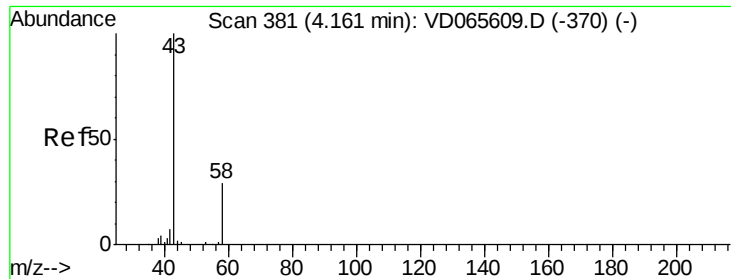
100

0

Time-->

4.26 4.28 4.30 4.32





#16

Acetone

Concen: 40.459 ug/l

RT: 4.17 min Scan# 383

Delta R.T. 0.01 min

Lab File: VD065623.D

Acq: 13 Apr 2020 18:12

Instrument :

MSVOA\_D

ClientSampleId :

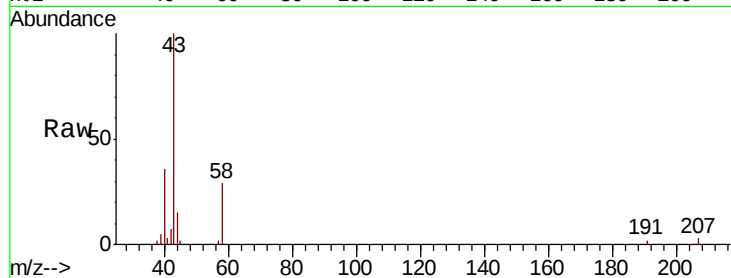
TP-17

Tot Ion: 43 Resp: 29552

Ion Ratio Lower Upper

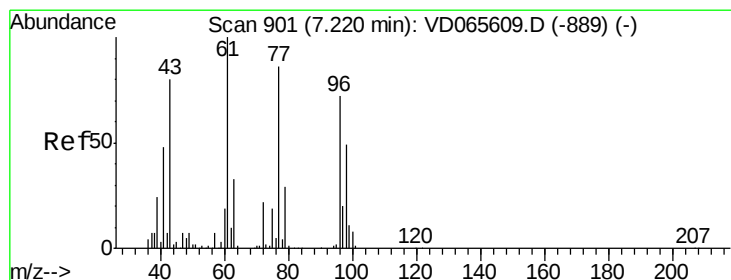
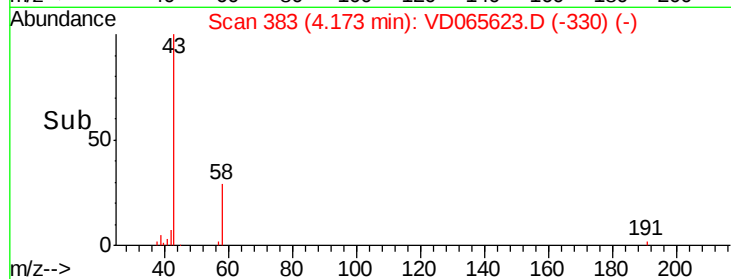
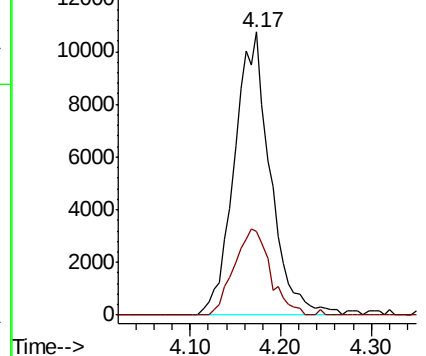
43 100

58 29.5 23.2 34.8



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC



#25

2-Butanone

Concen: 7.534 ug/l

RT: 7.23 min Scan# 902

Delta R.T. 0.01 min

Lab File: VD065623.D

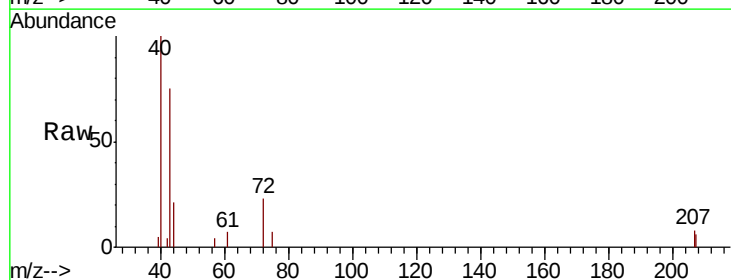
Acq: 13 Apr 2020 18:12

Tgt Ion: 43 Resp: 7532

Ion Ratio Lower Upper

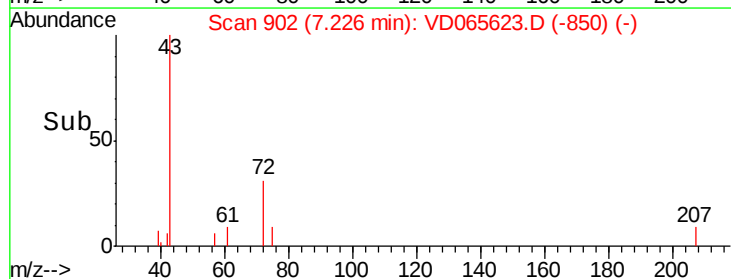
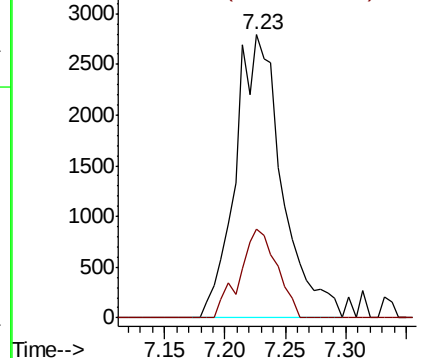
43 100

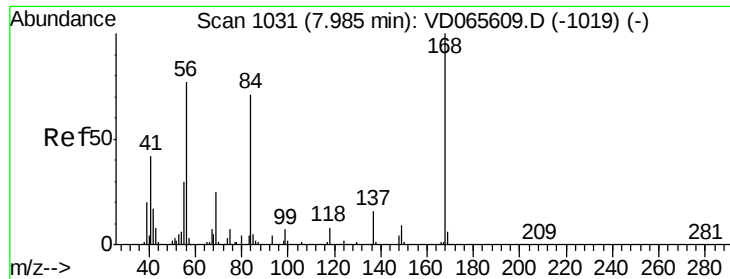
72 31.3 22.5 33.7



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

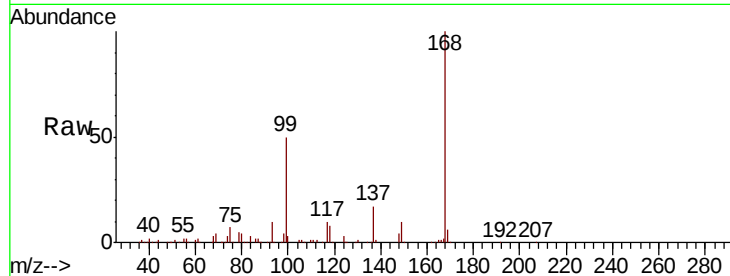




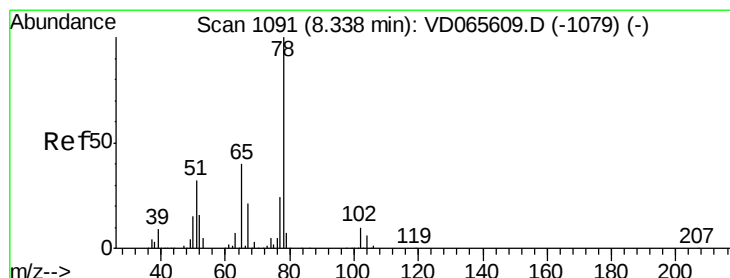
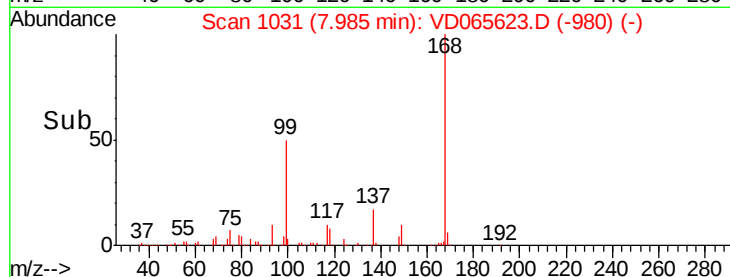
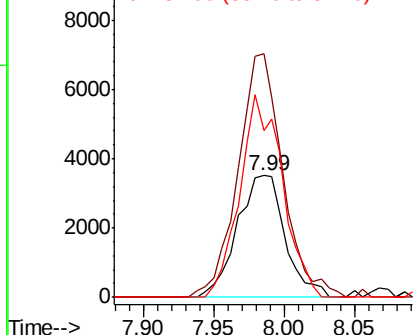
#31  
Cyclohexane  
Concen: 1.157 ug/l  
RT: 7.99 min Scan# 1031  
Delta R.T. 0.00 min  
Lab File: VD065623.D  
Acq: 13 Apr 2020 18:12

Instrument :  
MSVOA\_D  
ClientSampled :  
TP-17

Tot Ion: 56 Resp: 8351  
Ion Ratio Lower Upper  
56 100  
69 199.9 26.2 39.4#  
84 136.8 73.7 110.5#

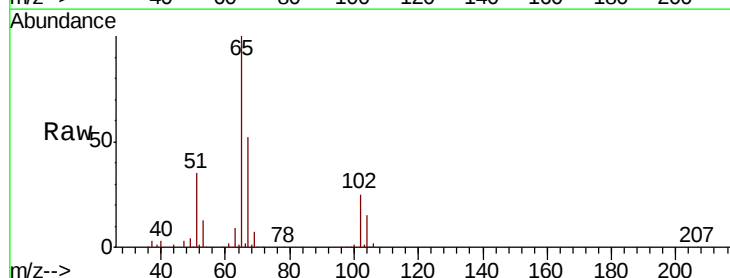


Abundance Ion 56.00 (55.70 to 56.70): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.00 (83.70 to 84.70): VDC

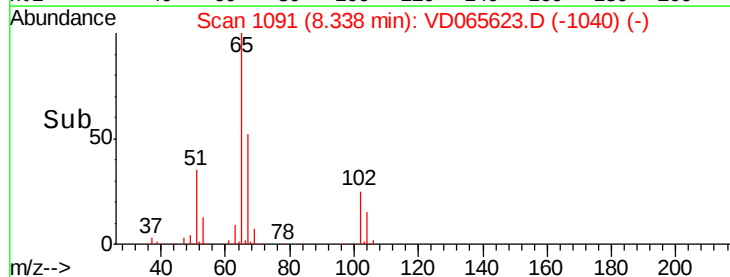
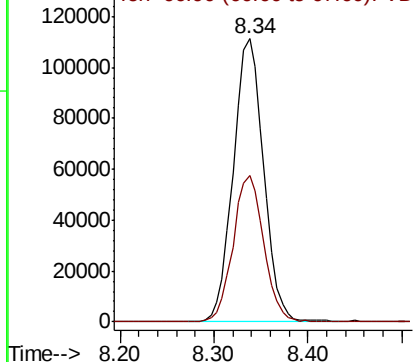


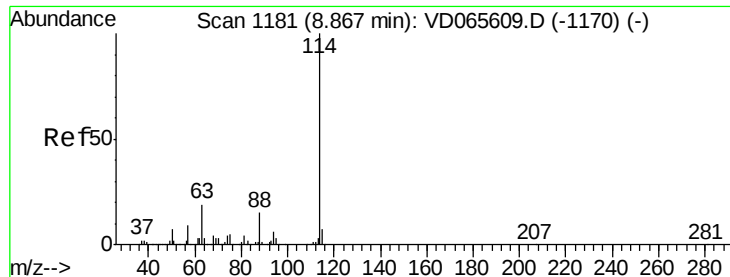
#33  
1,2-Dichloroethane-d4  
Concen: 61.717 ug/l  
RT: 8.34 min Scan# 1091  
Delta R.T. 0.00 min  
Lab File: VD065623.D  
Acq: 13 Apr 2020 18:12

Tgt Ion: 65 Resp: 249641  
Ion Ratio Lower Upper  
65 100  
67 52.2 0.0 107.6



Abundance Ion 64.90 (64.60 to 65.60): VDC  
Ion 66.90 (66.60 to 67.60): VDC

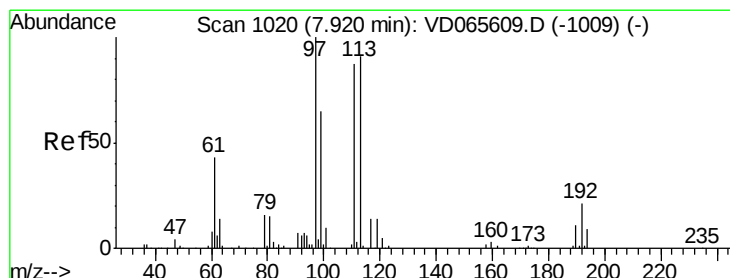
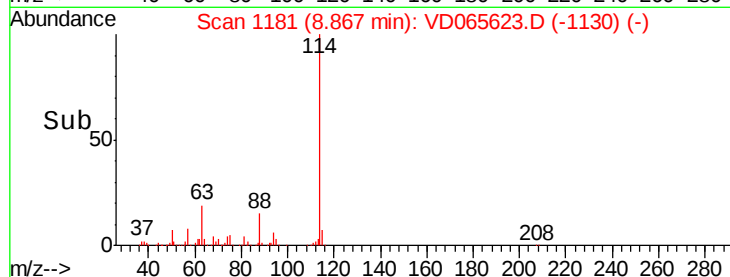
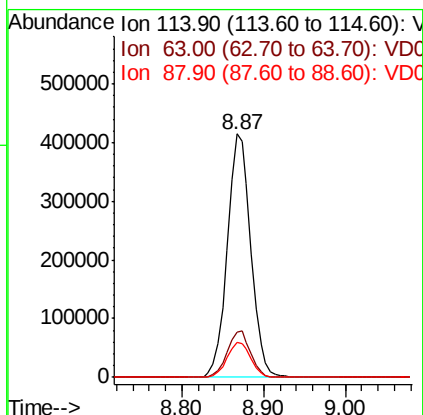
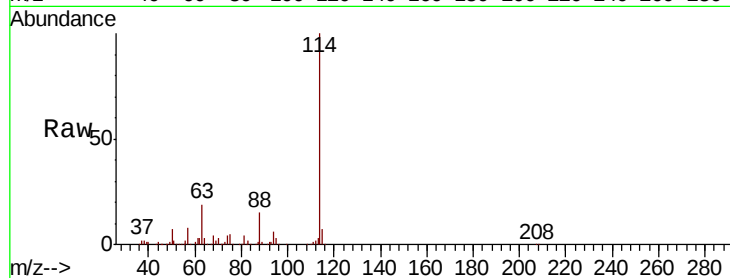




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.87 min Scan# 1181  
 Delta R.T. 0.00 min  
 Lab File: VD065623.D  
 Acq: 13 Apr 2020 18:12

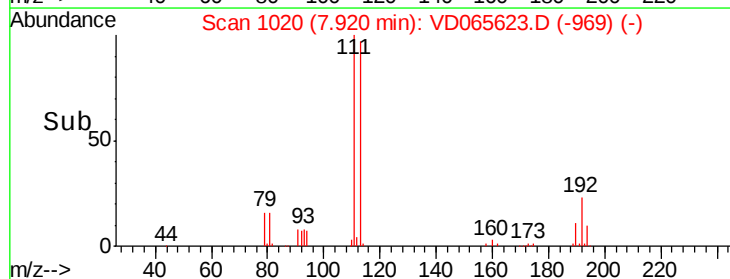
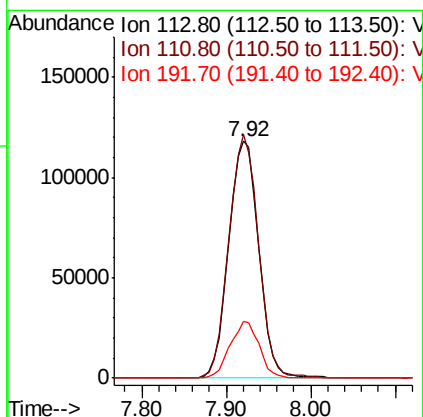
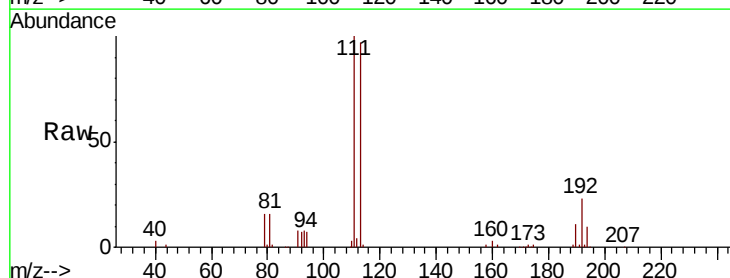
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 TP-17

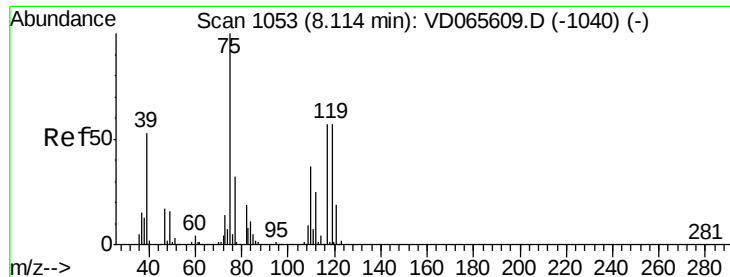
Tot Ion:114 Resp: 826297  
 Ion Ratio Lower Upper  
 114 100  
 63 18.6 0.0 38.2  
 88 14.6 0.0 29.6



#35  
 Dibromofluoromethane  
 Concen: 50.068 ug/l  
 RT: 7.92 min Scan# 1020  
 Delta R.T. 0.00 min  
 Lab File: VD065623.D  
 Acq: 13 Apr 2020 18:12

Tgt Ion:113 Resp: 289029  
 Ion Ratio Lower Upper  
 113 100  
 111 101.6 80.6 120.8  
 192 23.2 18.6 27.8





#36

1,1-Dichloropropene

Concen: 3.511 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.13 min

Lab File: VD065623.D

Acq: 13 Apr 2020 18:12

Instrument :

MSVOA\_D

ClientSampled :

TP-17

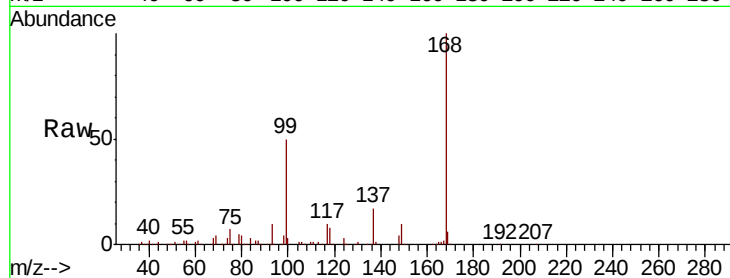
Tot Ion: 75 Resp: 29869

Ion Ratio Lower Upper

75 100

110 9.0 18.3 54.9#

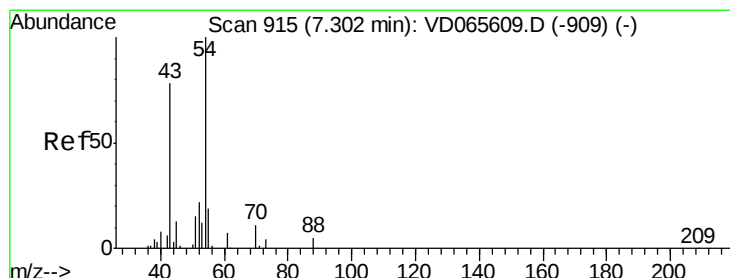
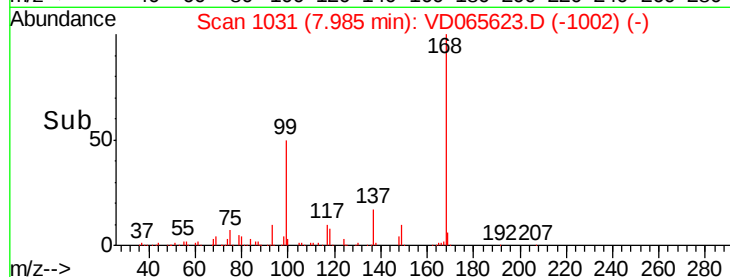
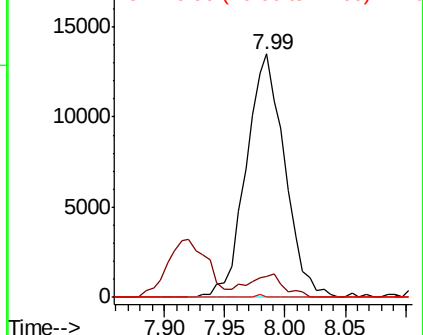
77 0.2 25.0 37.6#



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



#37

Ethyl Acetate

Concen: 2.385 ug/l

RT: 7.23 min Scan# 902

Delta R.T. -0.08 min

Lab File: VD065623.D

Acq: 13 Apr 2020 18:12

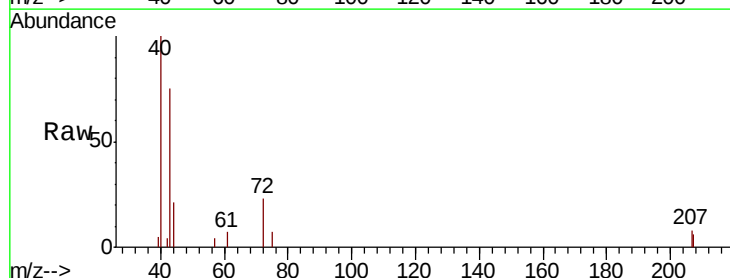
Tgt Ion: 43 Resp: 7532

Ion Ratio Lower Upper

43 100

61 11.1 11.3 16.9#

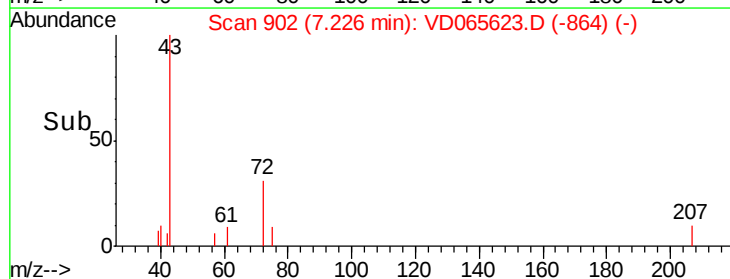
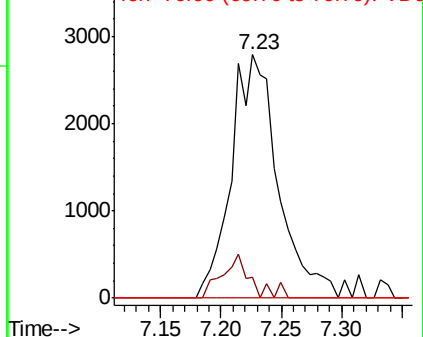
70 0.0 8.6 13.0#

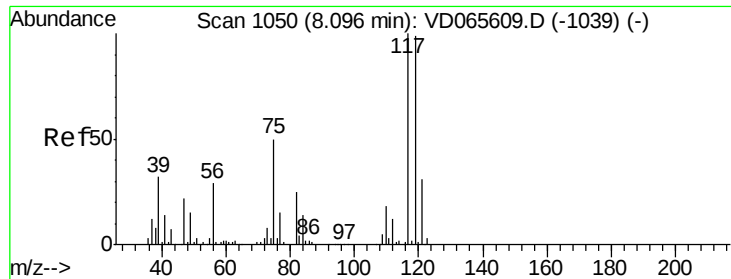


Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 60.90 (60.60 to 61.60): VDC

Ion 70.00 (69.70 to 70.70): VDC





#38

Carbon Tetrachloride

Concen: 4.218 ug/l

RT: 7.99 min Scan# 1031

Delta R.T. -0.11 min

Lab File: VD065623.D

Acq: 13 Apr 2020 18:12

Instrument :

MSVOA\_D

ClientSampled :

TP-17

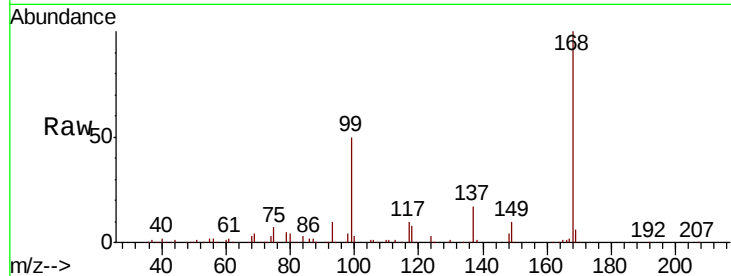
Tot Ion:117 Resp: 38966

Ion Ratio Lower Upper

117 100

119 4.3 78.9 118.3#

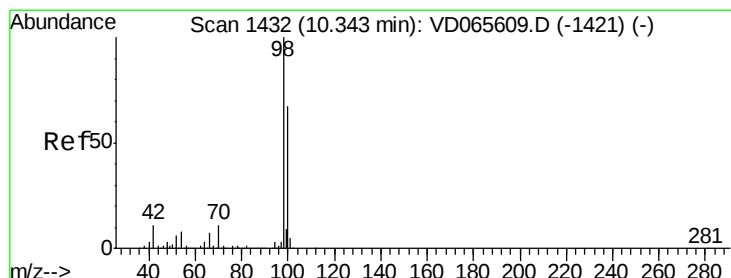
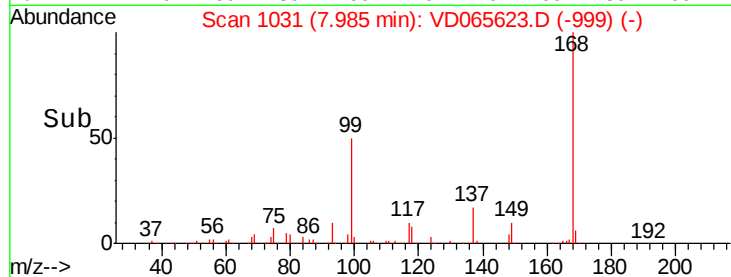
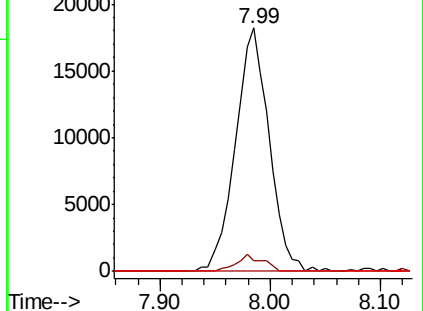
121 0.0 24.6 37.0#



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



#50

Toluene-d8

Concen: 46.988 ug/l

RT: 10.34 min Scan# 1432

Delta R.T. 0.00 min

Lab File: VD065623.D

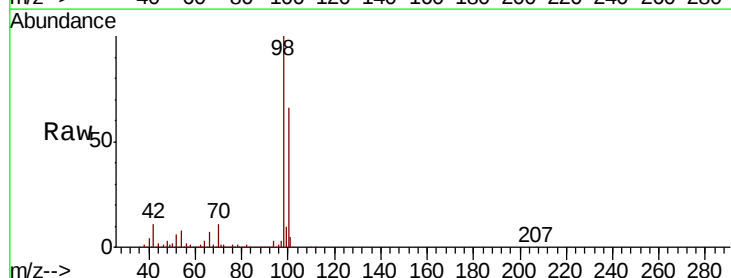
Acq: 13 Apr 2020 18:12

Tgt Ion: 98 Resp: 990542

Ion Ratio Lower Upper

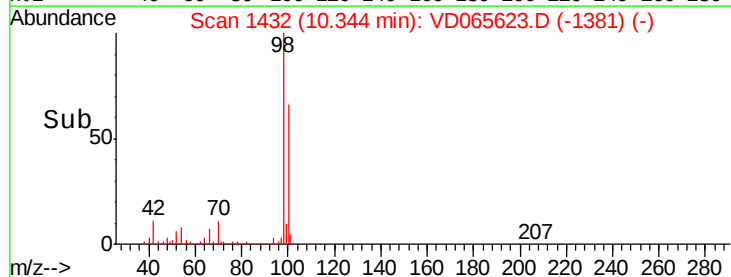
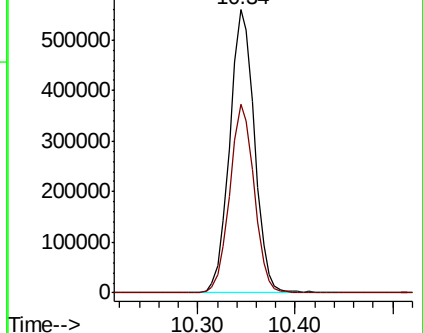
98 100

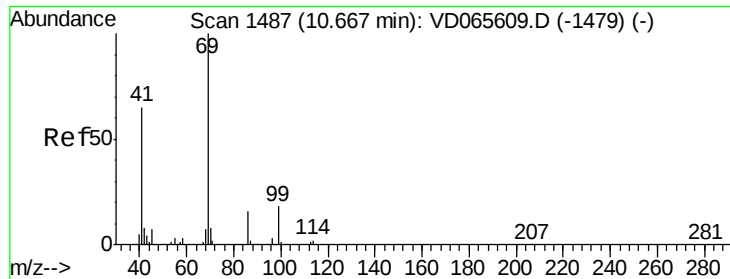
100 65.6 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): V

Ion 100.00 (99.70 to 100.70): V





#56

Ethyl methacrylate

Concen: 3.323 ug/l

RT: 10.66 min Scan# 1485

Delta R.T. -0.01 min

Lab File: VD065623.D

Acq: 13 Apr 2020 18:12

Instrument :

MSVOA\_D

ClientSampled :

TP-17

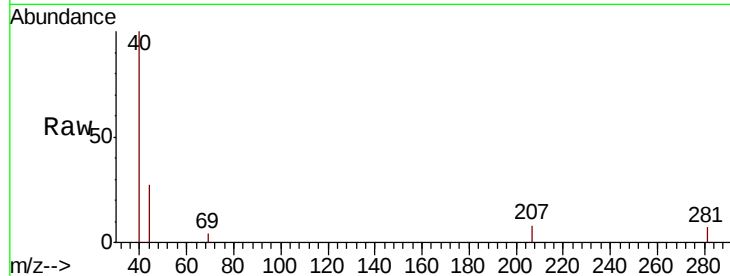
Tot Ion: 69 Resp: 59

Ion Ratio Lower Upper

69 100

41 0.0 54.4 81.6#

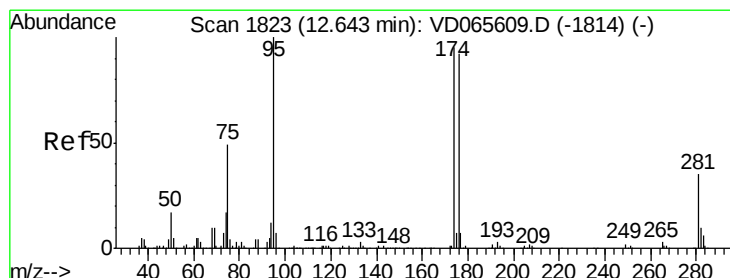
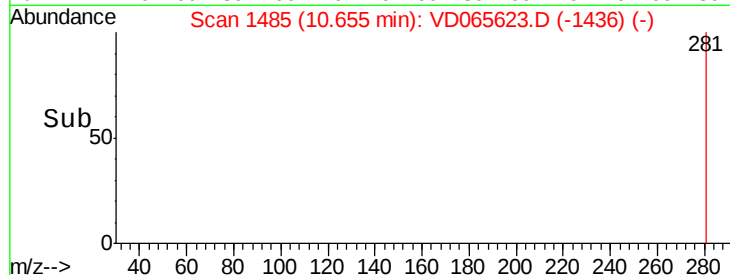
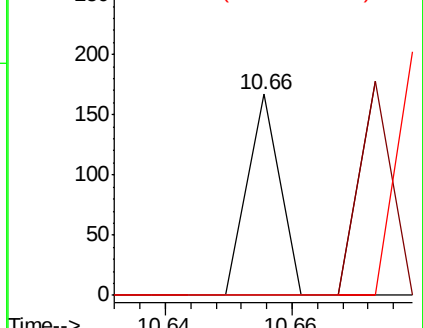
39 0.0 26.5 39.7#



Abundance Ion 69.00 (68.70 to 69.70): VDC

Ion 41.00 (40.70 to 41.70): VDC

Ion 39.00 (38.70 to 39.70): VDC



#62

4-Bromofluorobenzene

Concen: 48.654 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.00 min

Lab File: VD065623.D

Acq: 13 Apr 2020 18:12

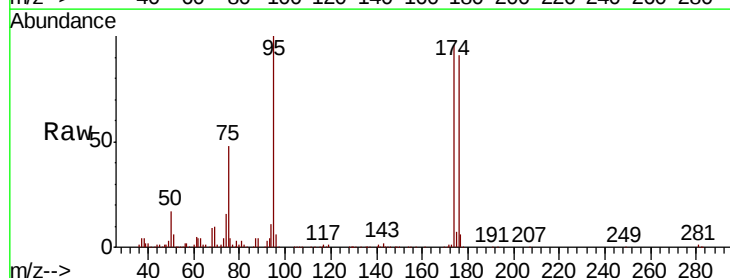
Tgt Ion: 95 Resp: 329584

Ion Ratio Lower Upper

95 100

174 94.2 0.0 182.8

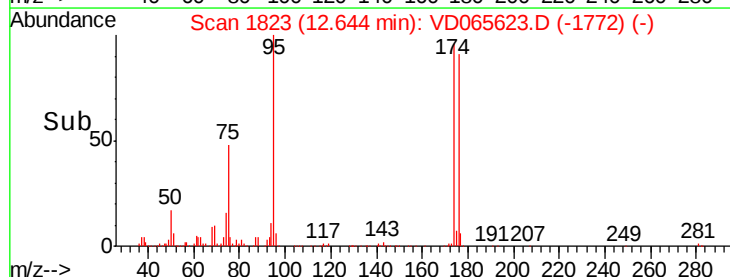
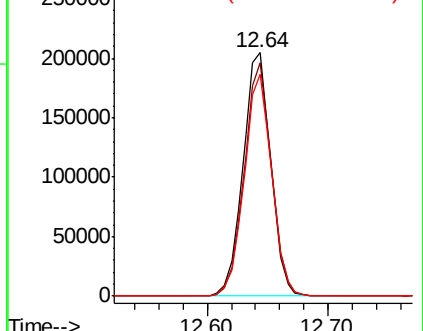
176 90.2 0.0 176.6

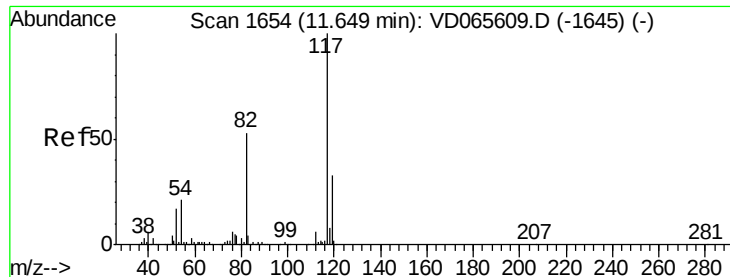


Abundance Ion 94.90 (94.60 to 95.60): VDC

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

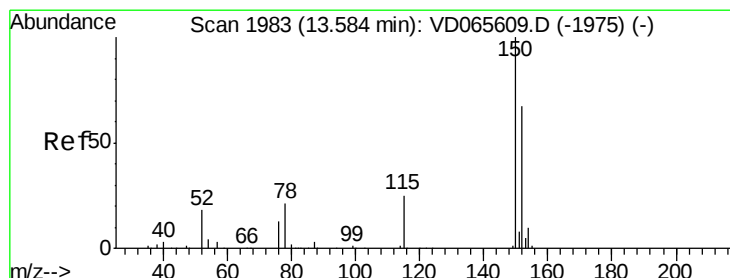
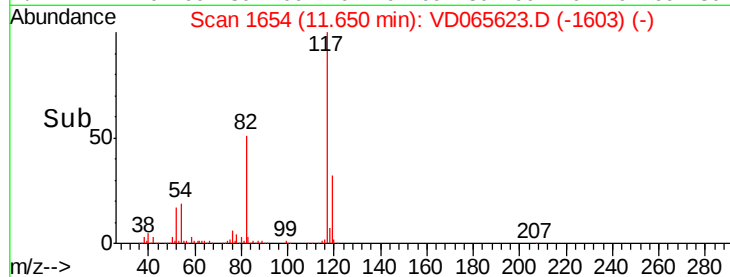
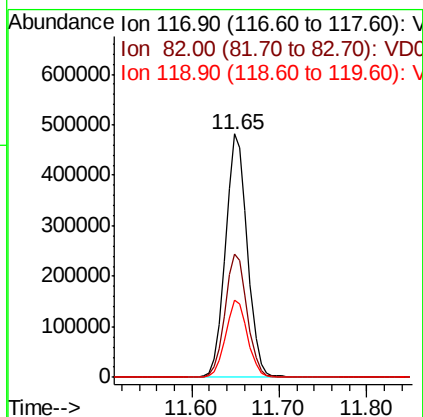
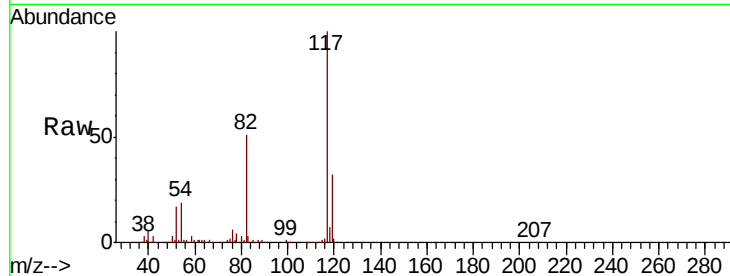




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD065623.D  
Acq: 13 Apr 2020 18:12

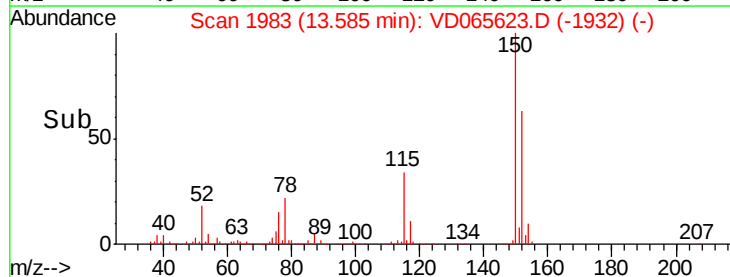
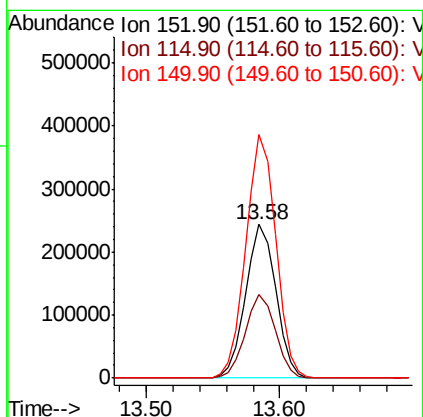
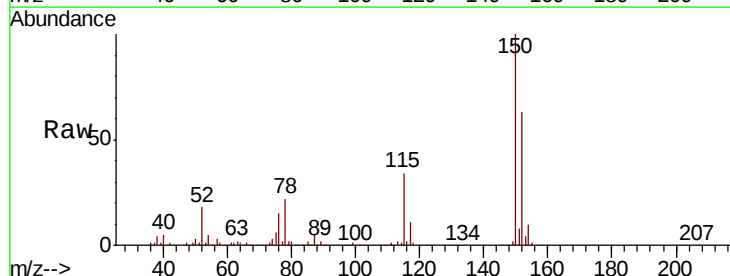
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-17

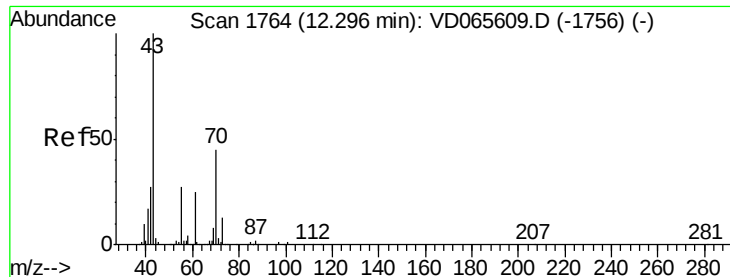
Tot Ion:117 Resp: 824590  
Ion Ratio Lower Upper  
117 100  
82 50.7 42.6 64.0  
119 31.9 26.7 40.1



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1983  
Delta R.T. 0.00 min  
Lab File: VD065623.D  
Acq: 13 Apr 2020 18:12

Tgt Ion:152 Resp: 380299  
Ion Ratio Lower Upper  
152 100  
115 54.1 27.1 81.2  
150 157.2 0.0 348.2

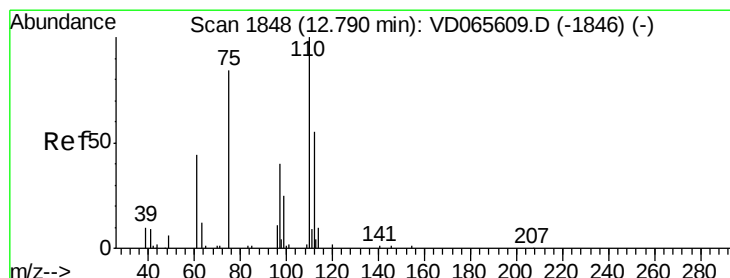
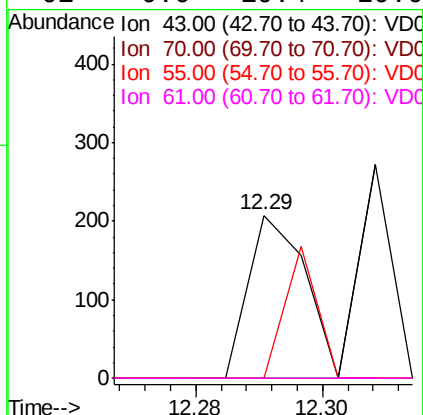
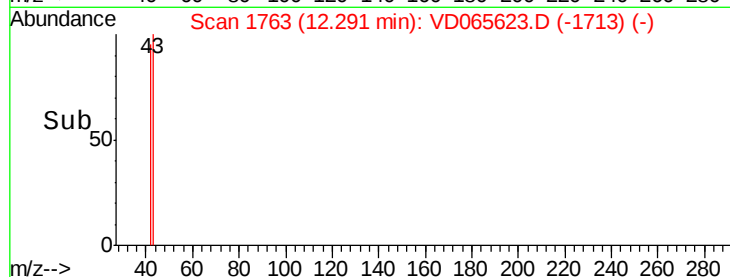
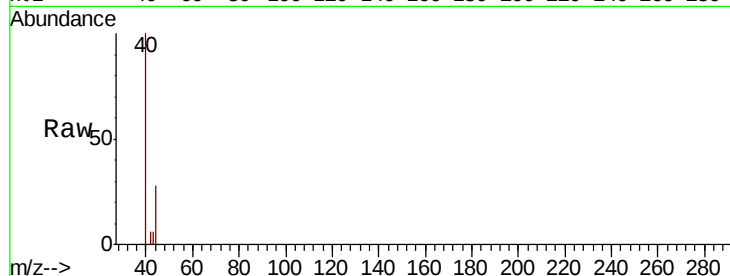




#74  
N-amvl acetate  
Concen: 2.955 ug/l  
RT: 12.29 min Scan# 1763  
Delta R.T. -0.01 min  
Lab File: VD065623.D  
Acq: 13 Apr 2020 18:12

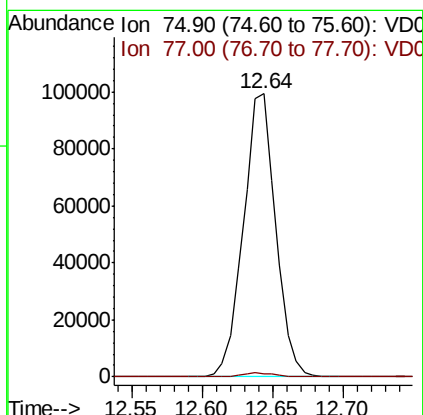
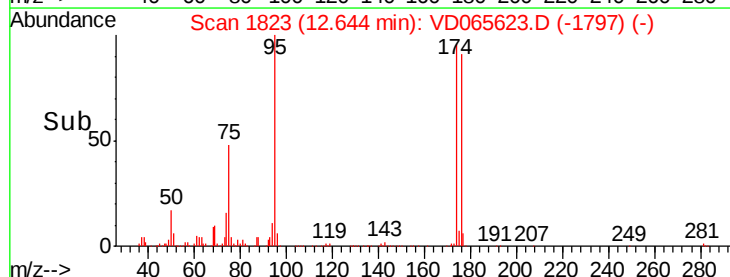
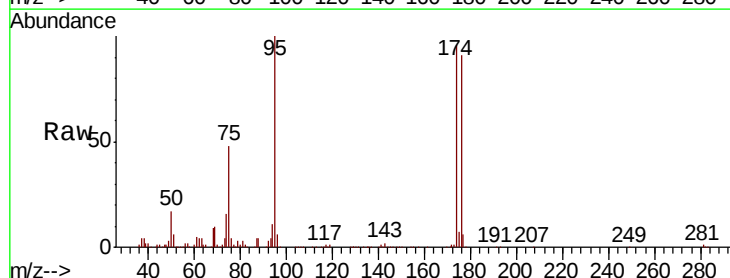
Instrument :  
MSVOA\_D  
ClientSampleId :  
TP-17

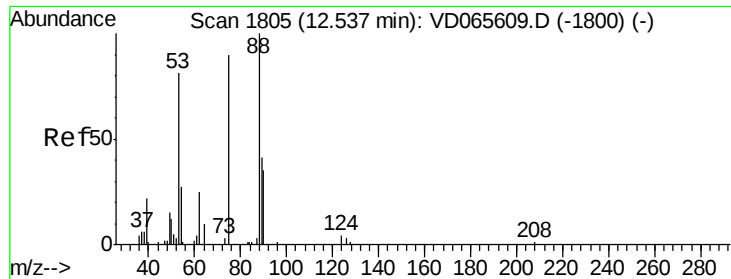
Tot Ion: 43 Resp: 128  
Ion Ratio Lower Upper  
43 100  
70 0.0 35.2 52.8#  
55 46.1 22.5 33.7#  
61 0.0 19.4 29.0#



#76  
1,2,3-Trichloropropane  
Concen: 52.214 ug/l  
RT: 12.64 min Scan# 1823  
Delta R.T. -0.15 min  
Lab File: VD065623.D  
Acq: 13 Apr 2020 18:12

Tgt Ion: 75 Resp: 159256  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 120.946 ug/l

RT: 12.64 min Scan# 1823

Delta R.T. 0.11 min

Lab File: VD065623.D

Acq: 13 Apr 2020 18:12

Instrument :

MSVOA\_D

ClientSampleId :

TP-17

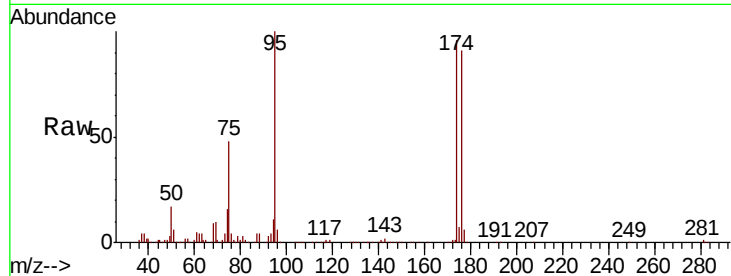
Tot Ion: 75 Resp: 159256

Ion Ratio Lower Upper

75 100

53 0.2 73.8 110.8#

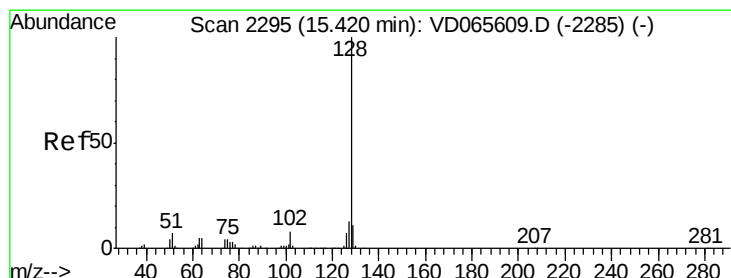
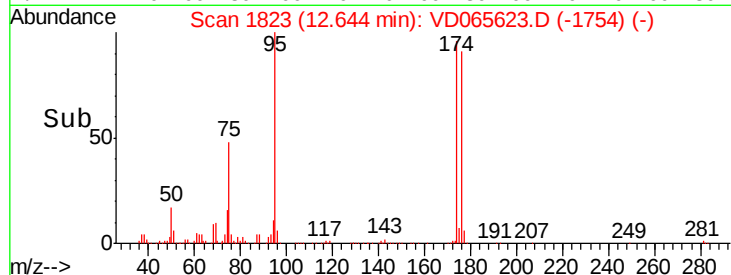
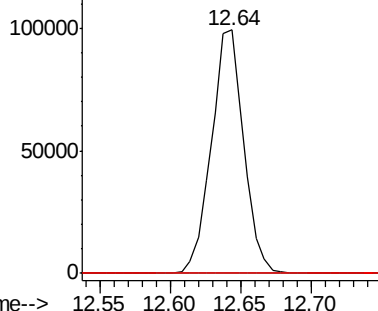
89 0.0 36.1 54.1#



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



#95

Naphthalene

Concen: 4.109 ug/l

RT: 15.41 min Scan# 2294

Delta R.T. -0.00 min

Lab File: VD065623.D

Acq: 13 Apr 2020 18:12

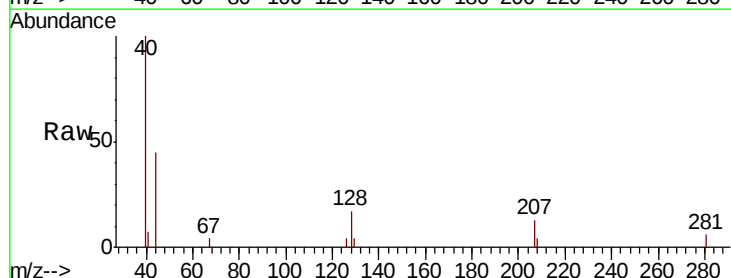
Tgt Ion: 128 Resp: 1589

Ion Ratio Lower Upper

128 100

127 6.5 10.6 15.8#

129 7.4 8.4 12.6#



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

