

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081618\  
 Data File : VD059821.D  
 Acq On : 16 Aug 2018 20:10  
 Operator : VA/AP  
 Sample : J4501-06  
 Misc : 5.05µl/5ml/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 17 05:35:56 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D081518S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 15 16:08:23 2018  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 5.61  | 168  | 215774   | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 6.66  | 114  | 262910   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 10.68 | 117  | 153185   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 43650    | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units | Dev(Min) |
|-----------------------------|-------|------|----------|--------|-------|----------|
| 33) 1,2-Dichloroethane-d4   | 5.98  | 65   | 120442   | 43.44  | ug/l  | -0.03    |
| Spiked Amount               |       |      |          | 50.000 |       |          |
| Recovery                    |       |      |          |        |       | 86.88%   |
| 35) Dibromofluoromethane    | 5.52  | 113  | 108379   | 47.30  | ug/l  | -0.02    |
| Spiked Amount               |       |      |          | 50.000 |       |          |
| Recovery                    |       |      |          |        |       | 94.60%   |
| 50) Toluene-d8              | 8.68  | 98   | 213841   | 39.41  | ug/l  | -0.03    |
| Spiked Amount               |       |      |          | 50.000 |       |          |
| Recovery                    |       |      |          |        |       | 78.82%   |
| 62) 4-Bromofluorobenzene    | 11.91 | 95   | 60977    | 25.08  | ug/l  | -0.01    |
| Spiked Amount               |       |      |          | 50.000 |       |          |
| Recovery                    |       |      |          |        |       | 50.16%   |

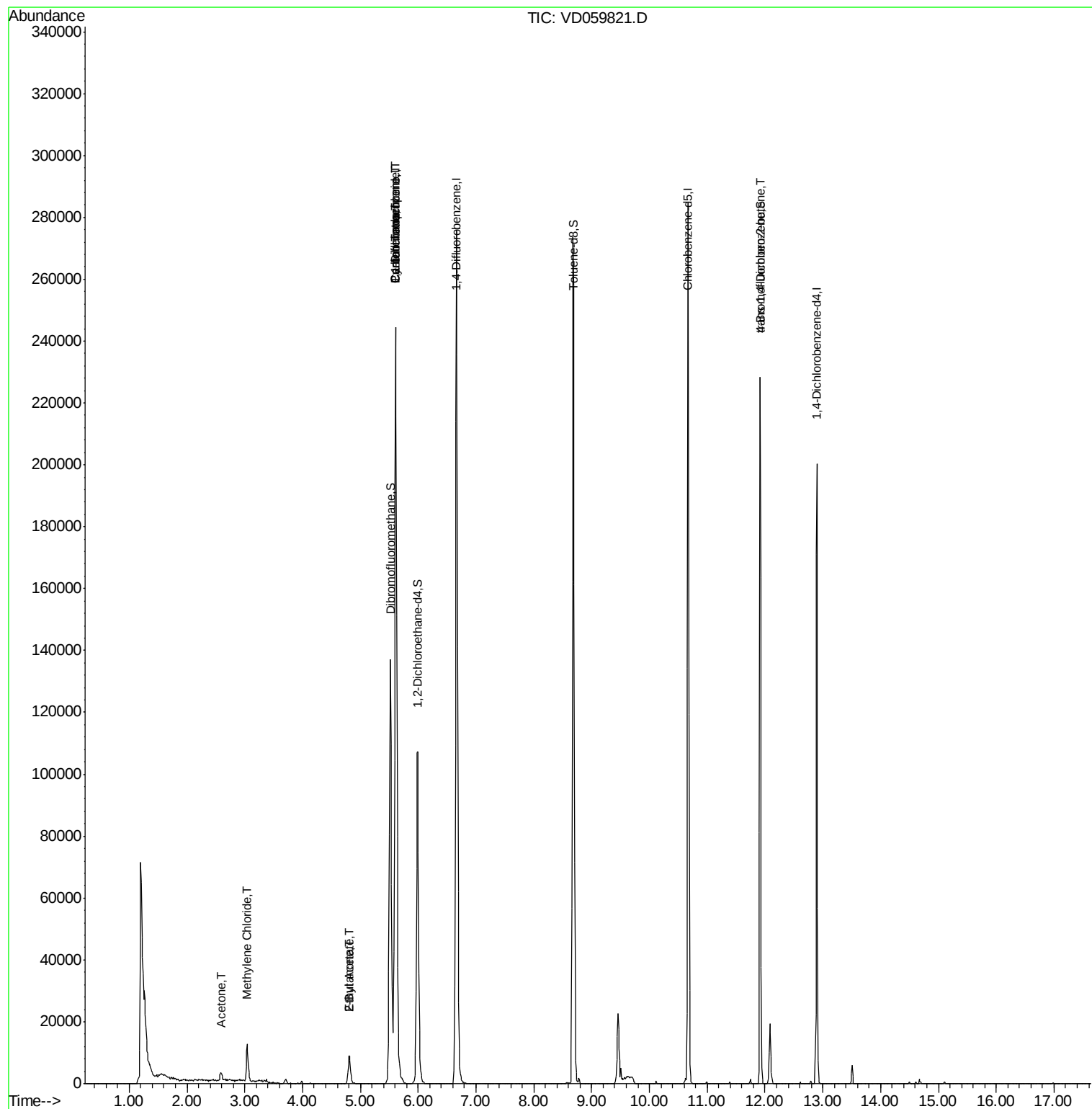
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                    | 2.59  | 43   | 6258     | 14.303  | ug/l # | 88     |
| 20) Methylene Chloride         | 3.04  | 84   | 5521     | 1.665   | ug/l # | 81     |
| 25) 2-Butanone                 | 4.80  | 43   | 3087     | 4.610   | ug/l # | 58     |
| 31) Cyclohexane                | 5.60  | 56   | 5881     | 2.089   | ug/l # | 13     |
| 36) 1,1-Dichloropropene        | 5.61  | 75   | 18681    | 6.926   | ug/l # | 49     |
| 37) Ethyl Acetate              | 4.80  | 43   | 3087     | 2.288   | ug/l # | 72     |
| 38) Carbon Tetrachloride       | 5.61  | 117  | 21853    | 6.715   | ug/l # | 16     |
| 81) trans-1,4-Dichloro-2-buten | 11.91 | 75   | 31241    | 215.613 | ug/l # | 1      |

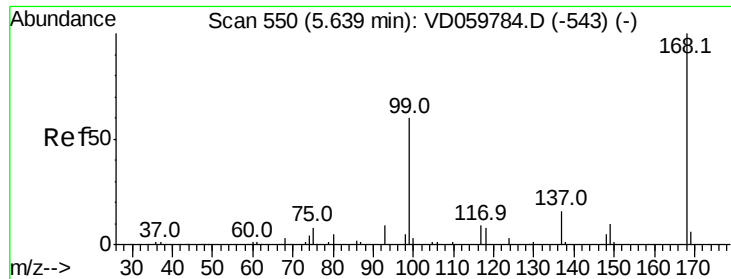
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD081618\  
Data File : VD059821.D  
Acq On : 16 Aug 2018 20:10  
Operator : VA/AP  
Sample : J4501-06  
Misc : 5.05g/5ml/MSVOA D/SOIL  
ALS Vial : 16 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :

Quant Time: Aug 17 05:35:56 2018  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D081518S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 15 16:08:23 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.61 min Scan# 547

Delta R.T. -0.03 min

Lab File: VD059821.D

Acq: 16 Aug 2018 20:10

Instrument :

MSVOA\_D

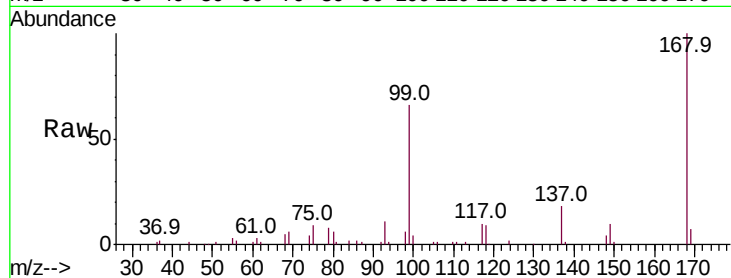
ClientSampleId :

Tot Ion:168 Resp: 215774

Ion Ratio Lower Upper

168 100

99 66.2 50.3 75.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.61

80000

60000

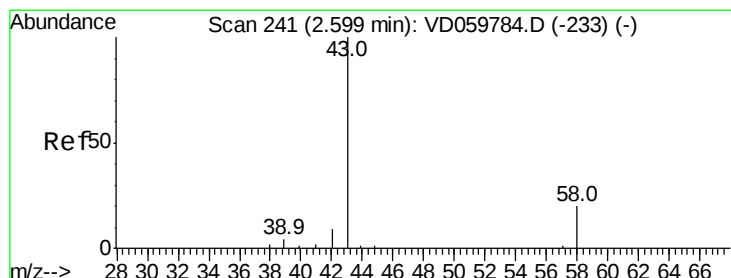
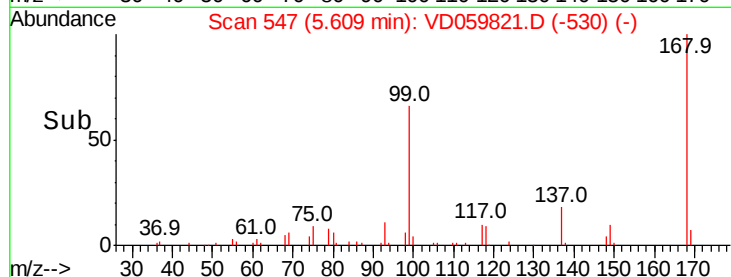
40000

20000

0

Time-->

5.50 5.60 5.70 5.80



#16

Acetone

Concen: 14.303 ug/l

RT: 2.59 min Scan# 240

Delta R.T. -0.01 min

Lab File: VD059821.D

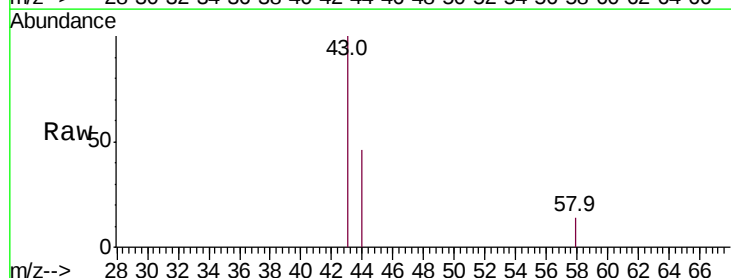
Acq: 16 Aug 2018 20:10

Tgt Ion: 43 Resp: 6258

Ion Ratio Lower Upper

43 100

58 14.0 15.7 23.5#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.59

2500

2000

1500

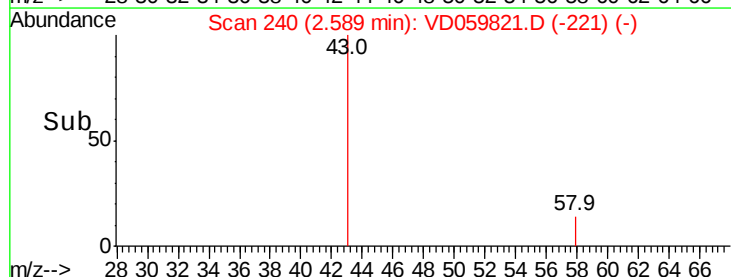
1000

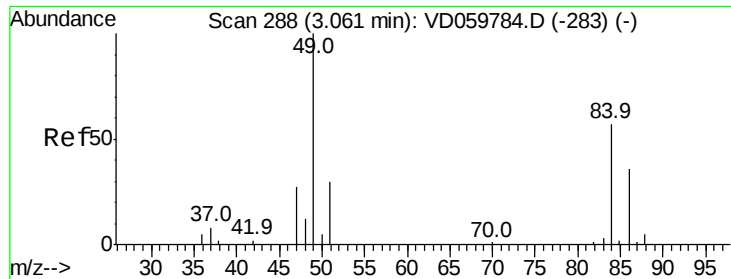
500

0

Time-->

2.50 2.55 2.60 2.65 2.70

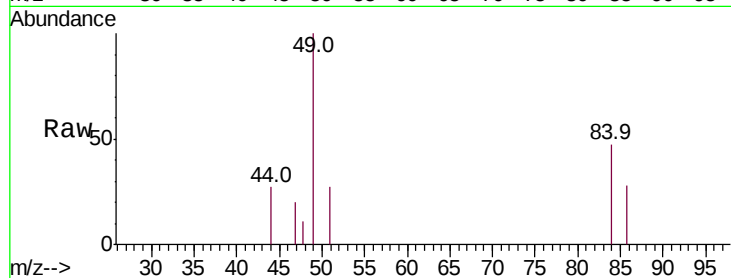




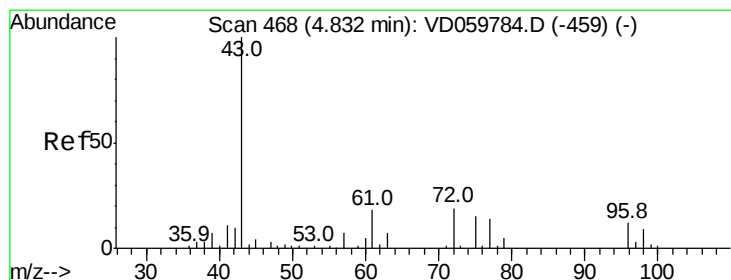
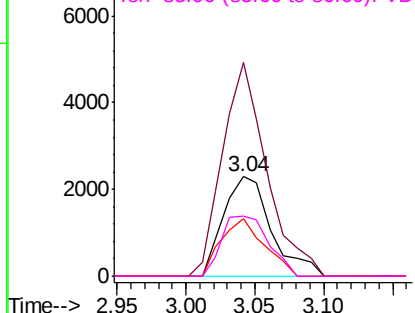
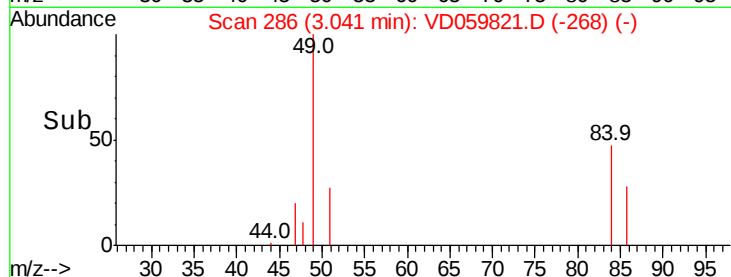
#20  
Methvlene Chloride  
Concen: 1.665 ug/l  
RT: 3.04 min Scan# 286  
Delta R.T. -0.02 min  
Lab File: VD059821.D  
Acq: 16 Aug 2018 20:10

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 84 Resp: 5521  
Ion Ratio Lower Upper  
84 100  
49 214.5 140.9 211.3#  
51 58.2 42.8 64.2  
86 60.2 51.3 76.9

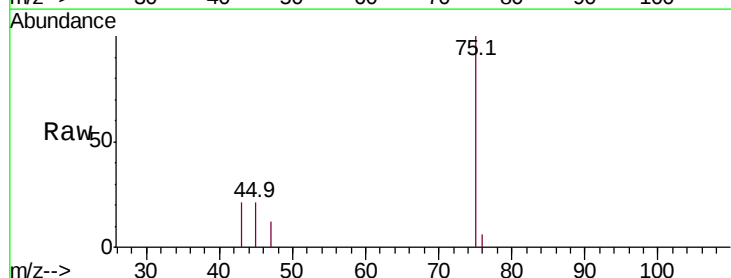


Abundance Ion 83.95 (83.65 to 84.65): VDC  
Ion 48.90 (48.60 to 49.60): VDC  
Ion 50.90 (50.60 to 51.60): VDC  
Ion 85.90 (85.60 to 86.60): VDC

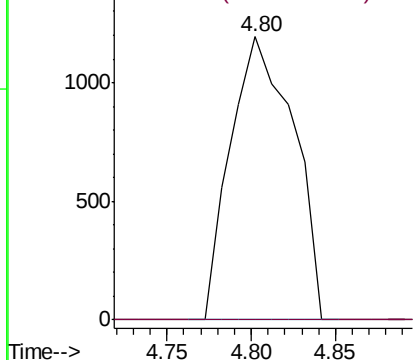
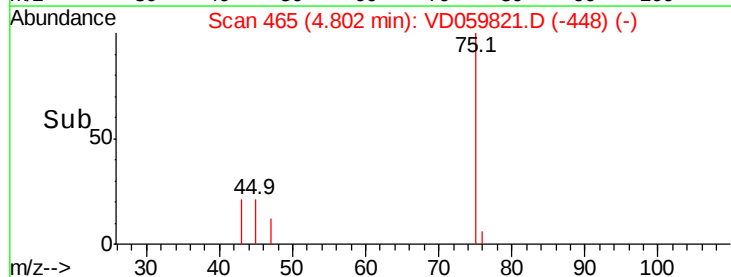


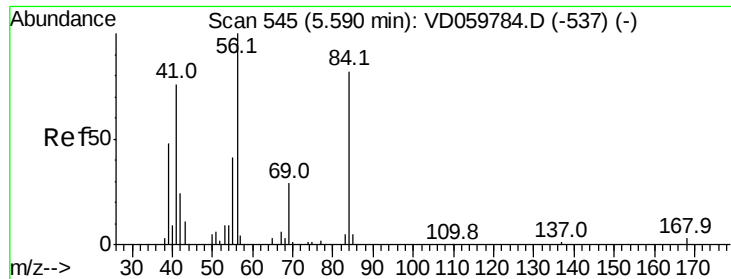
#25  
2-Butanone  
Concen: 4.610 ug/l  
RT: 4.80 min Scan# 465  
Delta R.T. -0.03 min  
Lab File: VD059821.D  
Acq: 16 Aug 2018 20:10

Tgt Ion: 43 Resp: 3087  
Ion Ratio Lower Upper  
43 100  
72 0.0 14.9 22.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 72.00 (71.70 to 72.70): VDC

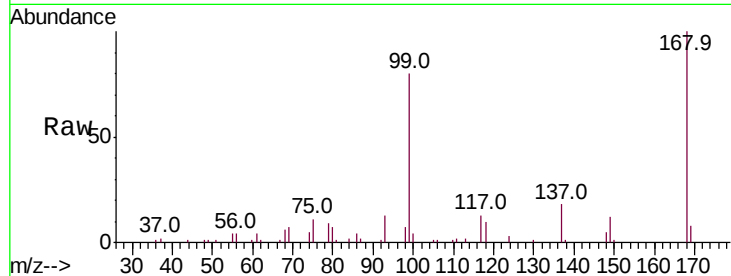




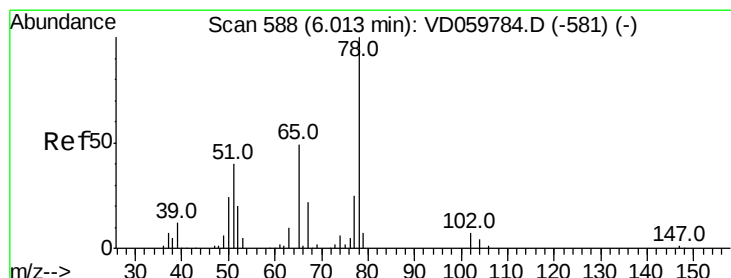
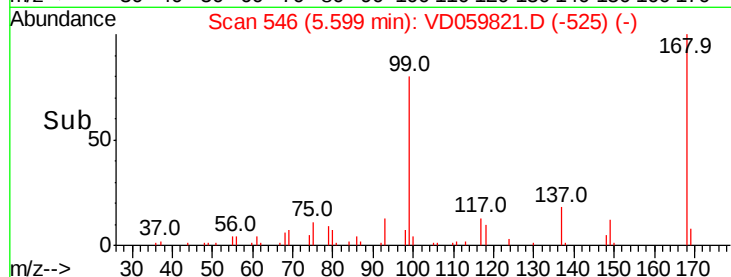
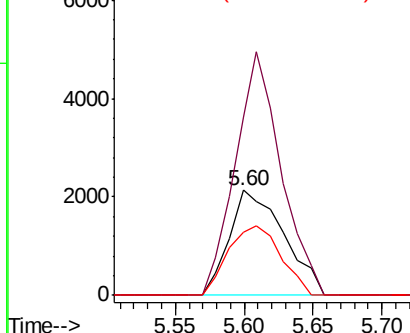
#31  
Cyclohexane  
Concen: 2.089 ug/l  
RT: 5.60 min Scan# 546  
Delta R.T. 0.01 min  
Lab File: VD059821.D  
Acq: 16 Aug 2018 20:10

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 56 Resp: 5881  
Ion Ratio Lower Upper  
56 100  
69 169.8 23.4 35.2#  
84 60.0 65.4 98.2#

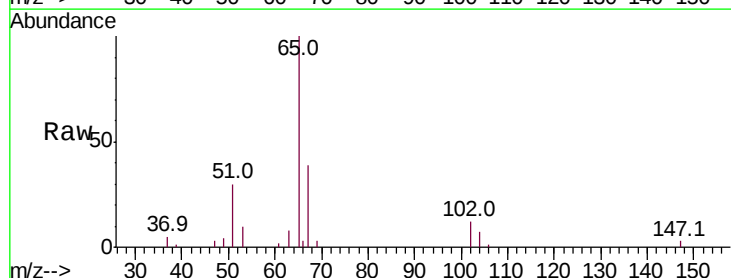


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

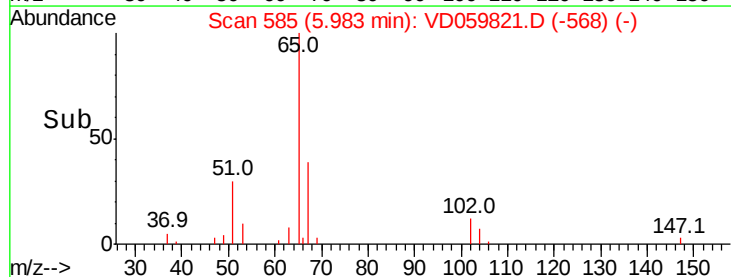
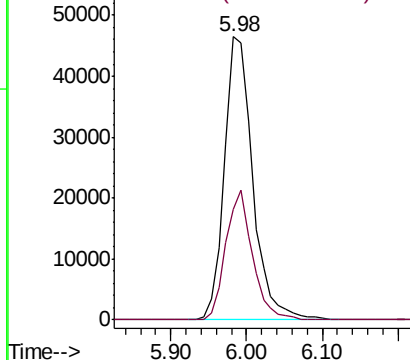


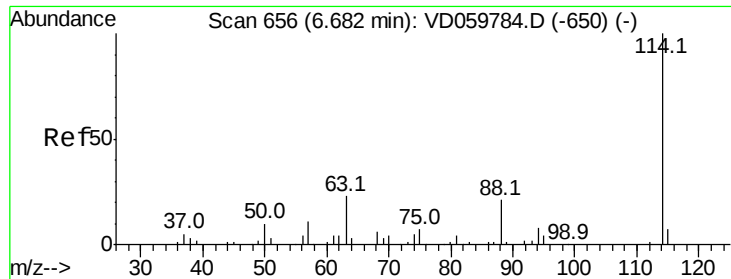
#33  
1,2-Dichloroethane-d4  
Concen: Below ug/l  
RT: 5.98 min Scan# 585  
Delta R.T. -0.03 min  
Lab File: VD059821.D  
Acq: 16 Aug 2018 20:10

Tgt Ion: 65 Resp: 120442  
Ion Ratio Lower Upper  
65 100  
67 39.1 0.0 87.8



Abundance Ion 64.95 (64.65 to 65.65): VDC  
Ion 66.90 (66.60 to 67.60): VDC

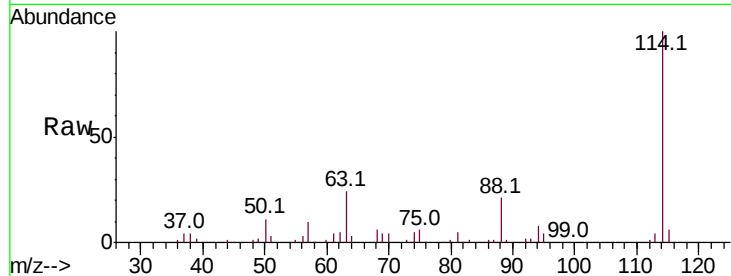




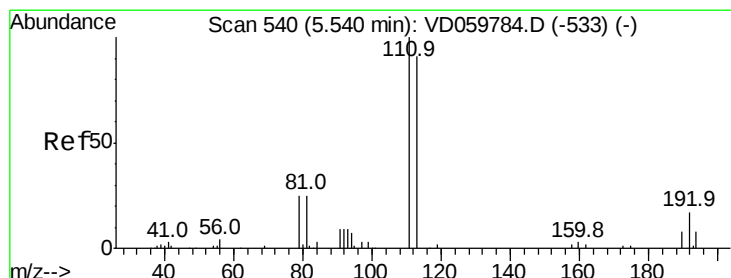
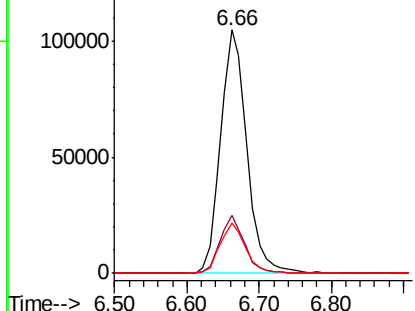
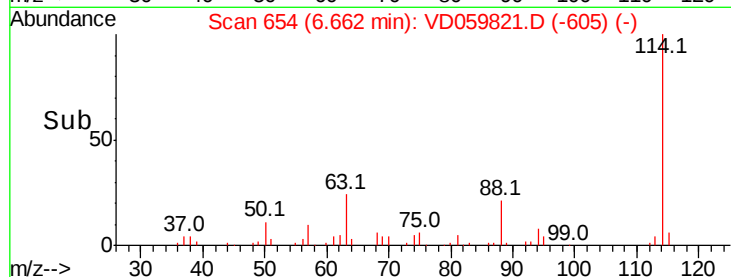
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 6.66 min Scan# 654  
 Delta R.T. -0.02 min  
 Lab File: VD059821.D  
 Acq: 16 Aug 2018 20:10

Instrument :  
 MSVOA\_D  
 ClientSampleId :

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 114     | 100   |       |       |
| 63      | 23.8  | 0.0   | 45.0  |
| 88      | 20.7  | 0.0   | 41.2  |

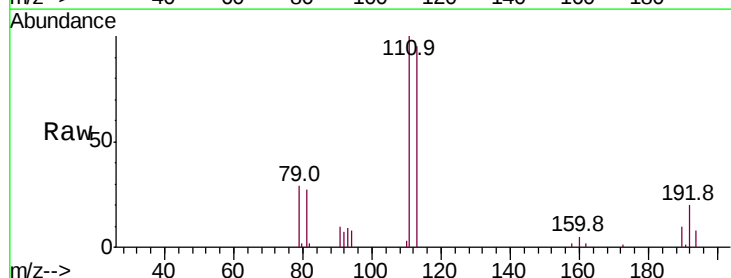


Abundance Ion 114.00 (113.70 to 114.70): V  
 Ion 62.95 (62.65 to 63.65): V  
 Ion 87.90 (87.60 to 88.60): V

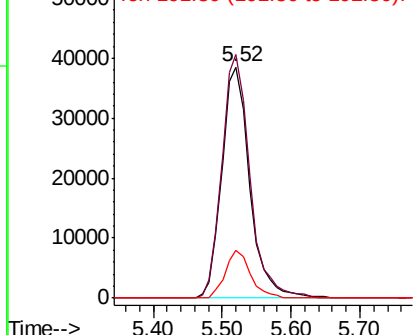
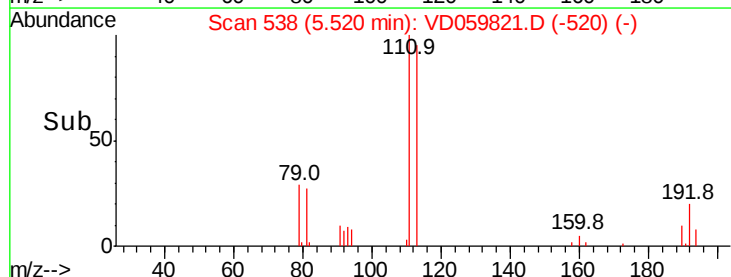


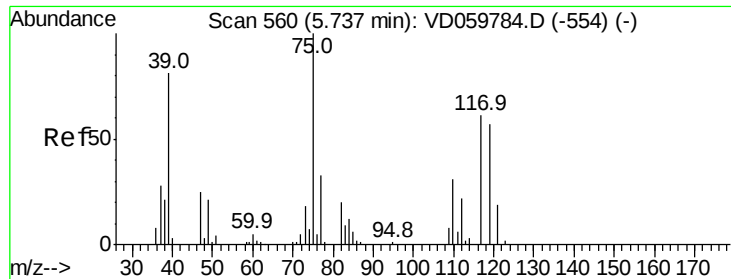
#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 5.52 min Scan# 538  
 Delta R.T. -0.02 min  
 Lab File: VD059821.D  
 Acq: 16 Aug 2018 20:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 105.2 | 87.7  | 131.5 |
| 192     | 20.6  | 14.6  | 21.8  |



Abundance Ion 112.90 (112.60 to 113.60): V  
 Ion 110.90 (110.60 to 111.60): V  
 Ion 191.80 (191.50 to 192.50): V





#36

1,1-Dichloropropene

Concen: 6.926 ug/l

RT: 5.61 min Scan# 547

Delta R.T. -0.13 min

Lab File: VD059821.D

Acq: 16 Aug 2018 20:10

Instrument :

MSVOA\_D

ClientSampleId :

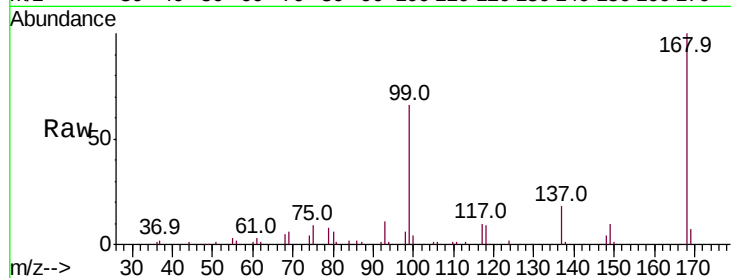
Tot Ion: 75 Resp: 18681

Ion Ratio Lower Upper

75 100

110 7.0 15.3 45.8#

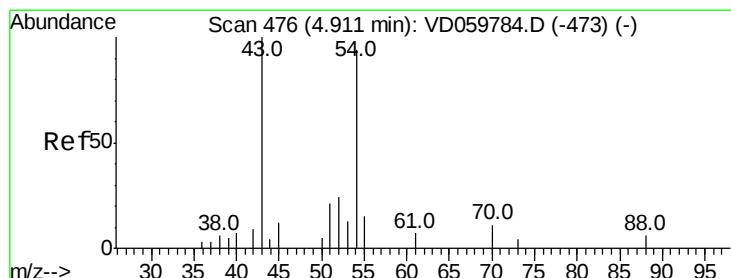
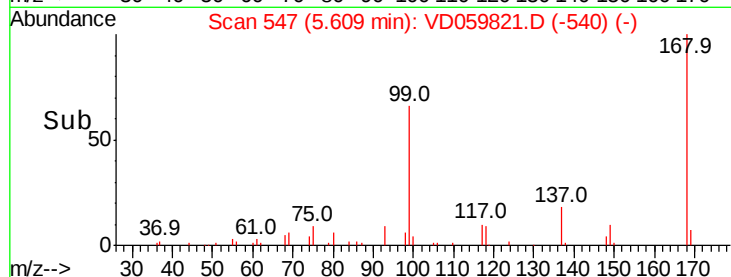
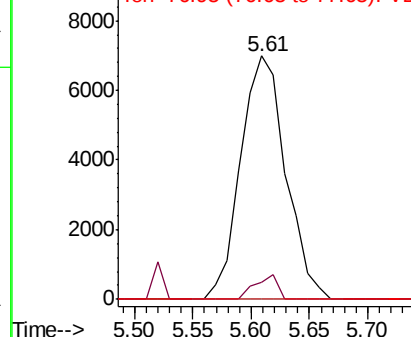
77 0.0 26.2 39.4#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 109.90 (109.60 to 110.60): VDC

Ion 76.95 (76.65 to 77.65): VDC



#37

Ethyl Acetate

Concen: 2.288 ug/l

RT: 4.80 min Scan# 465

Delta R.T. -0.11 min

Lab File: VD059821.D

Acq: 16 Aug 2018 20:10

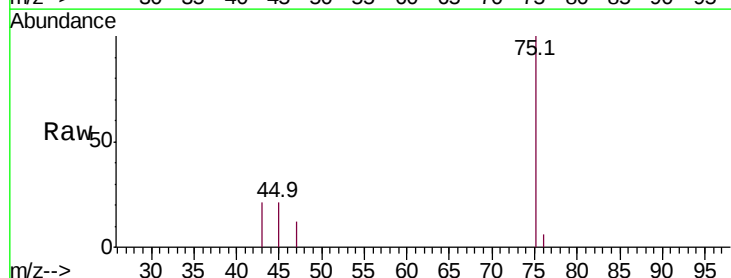
Tgt Ion: 43 Resp: 3087

Ion Ratio Lower Upper

43 100

61 0.0 10.2 15.2#

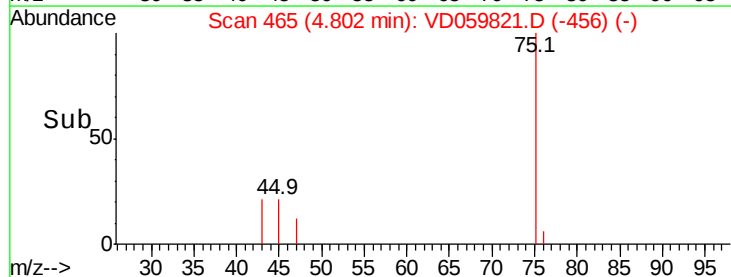
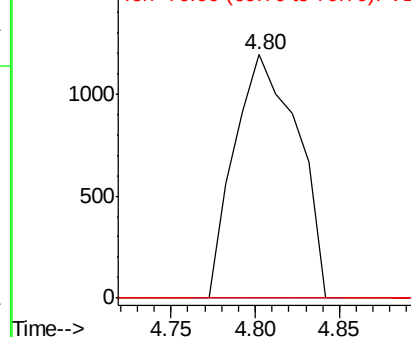
70 0.0 5.8 8.8#

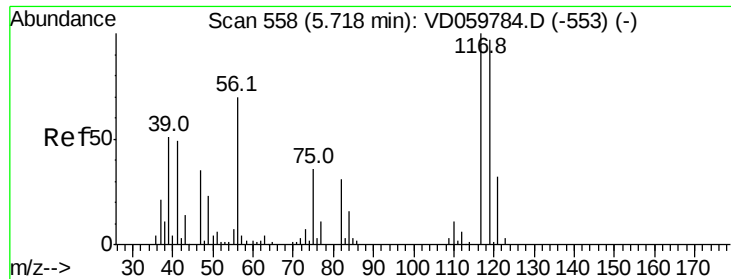


Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 60.95 (60.65 to 61.65): VDC

Ion 70.00 (69.70 to 70.70): VDC

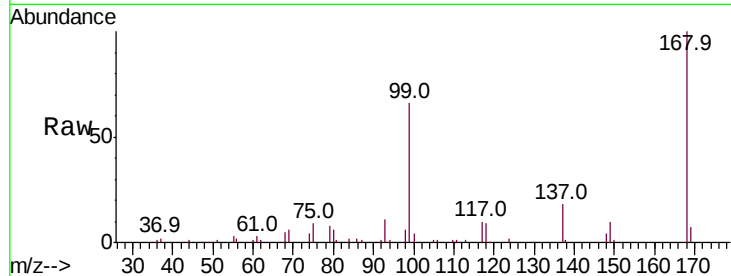




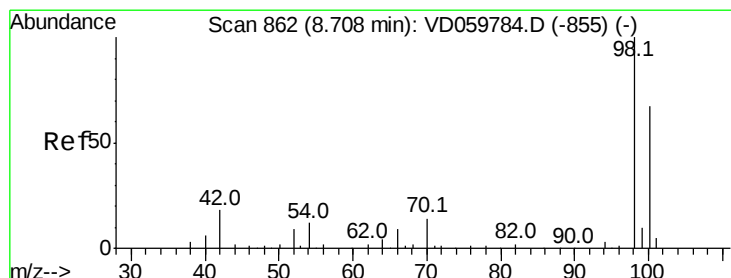
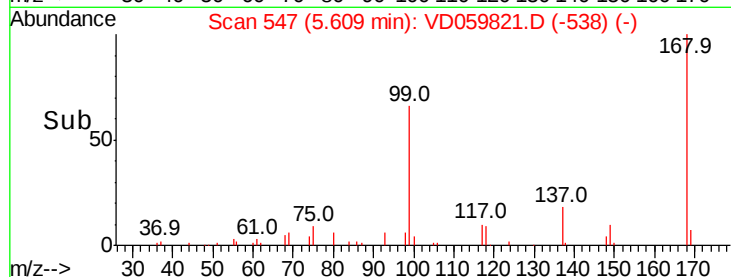
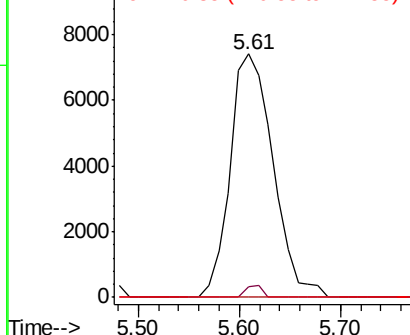
#38  
Carbon Tetrachloride  
Concen: 6.715 ug/l  
RT: 5.61 min Scan# 547  
Delta R.T. -0.11 min  
Lab File: VD059821.D  
Acq: 16 Aug 2018 20:10

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:117 Resp: 21853  
Ion Ratio Lower Upper  
117 100  
119 4.5 75.7 113.5#  
121 0.0 24.7 37.1#

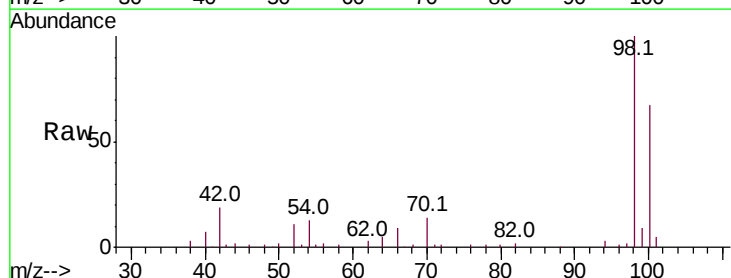


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

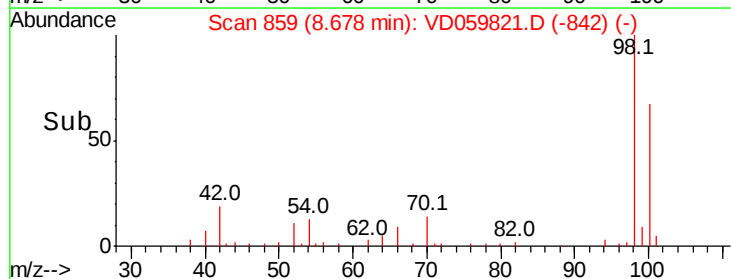
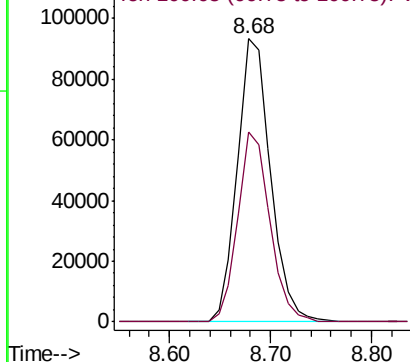


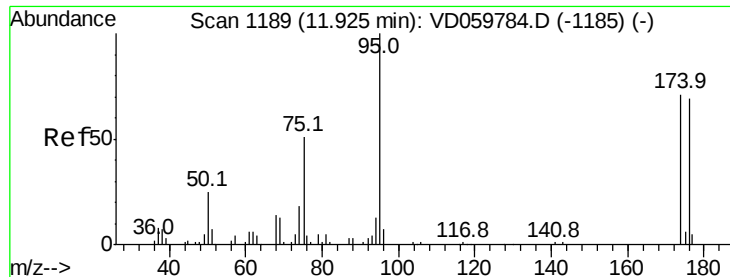
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 8.68 min Scan# 859  
Delta R.T. -0.03 min  
Lab File: VD059821.D  
Acq: 16 Aug 2018 20:10

Tgt Ion: 98 Resp: 213841  
Ion Ratio Lower Upper  
98 100  
100 67.1 54.2 81.4



Abundance Ion 98.05 (97.75 to 98.75): V  
Ion 100.05 (99.75 to 100.75): V





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 11.91 min Scan# 1188

Delta R.T. -0.01 min

Lab File: VD059821.D

Acq: 16 Aug 2018 20:10

Instrument :

MSVOA\_D

ClientSampleId :

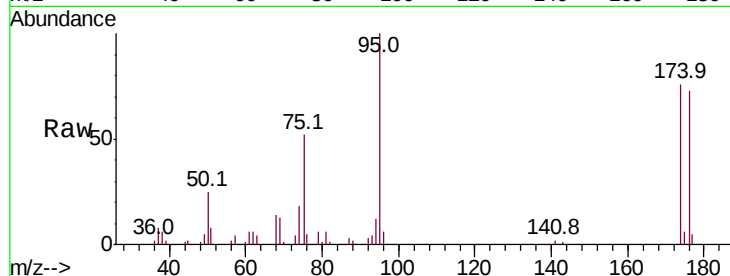
Tot Ion: 95 Resp: 60977

Ion Ratio Lower Upper

95 100

174 75.8 0.0 142.2

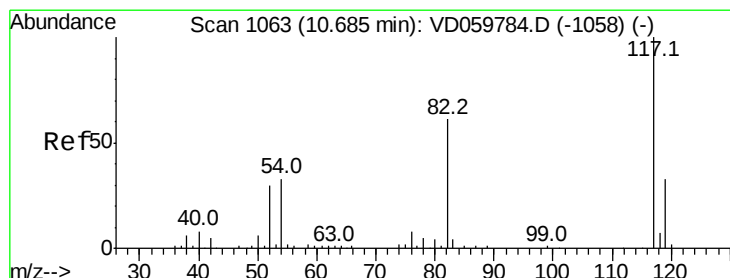
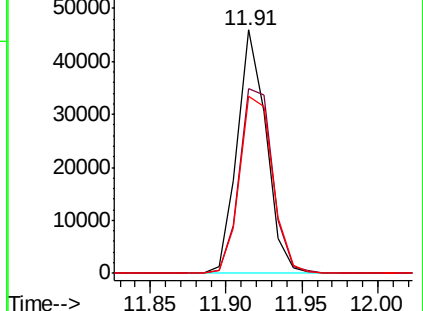
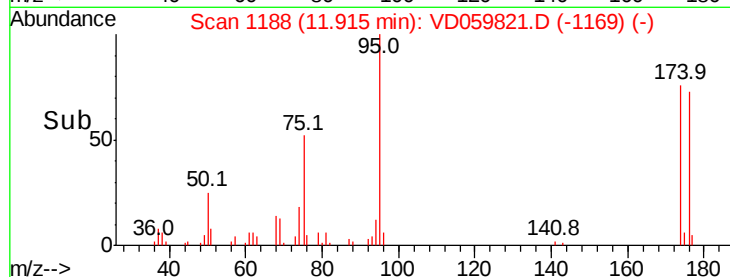
176 72.6 0.0 137.4



Abundance Ion 95.00 (94.70 to 95.70): V

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.68 min Scan# 1062

Delta R.T. -0.01 min

Lab File: VD059821.D

Acq: 16 Aug 2018 20:10

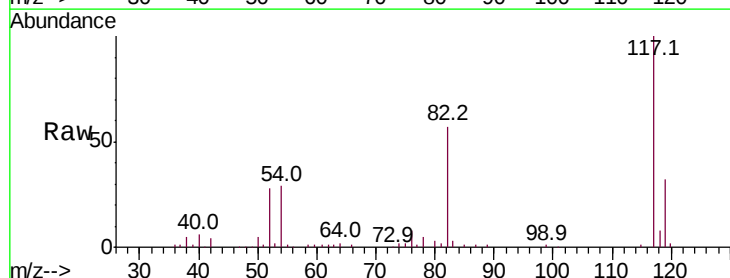
Tgt Ion: 117 Resp: 153185

Ion Ratio Lower Upper

117 100

82 57.5 49.0 73.6

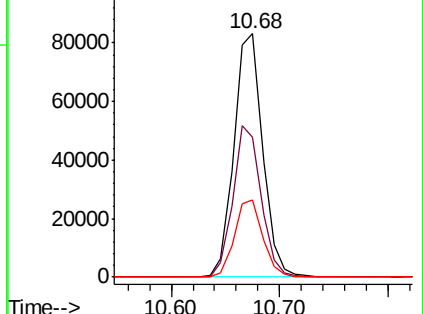
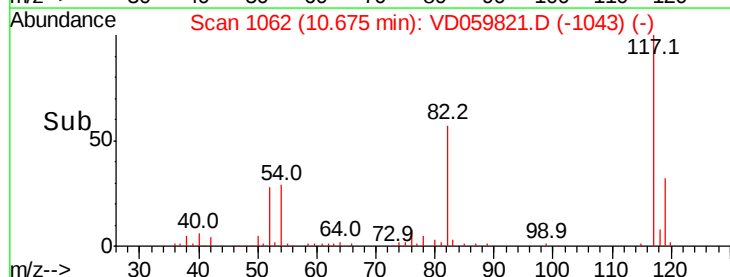
119 31.7 26.2 39.2

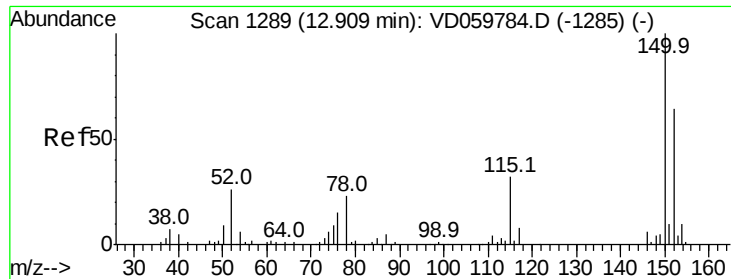


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.90 min Scan# 1288

Delta R.T. -0.01 min

Lab File: VD059821.D

Acq: 16 Aug 2018 20:10

Instrument :

MSVOA\_D

ClientSampleId :

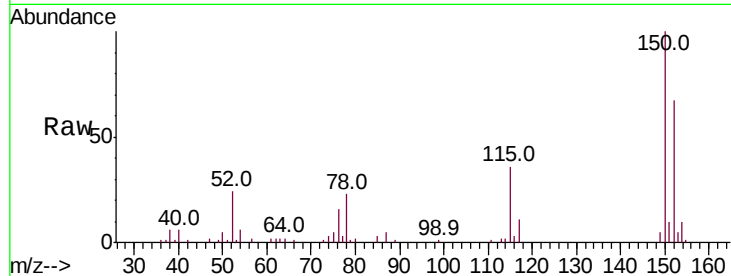
Tot Ion:152 Resp: 43650

Ion Ratio Lower Upper

152 100

115 54.0 27.2 81.5

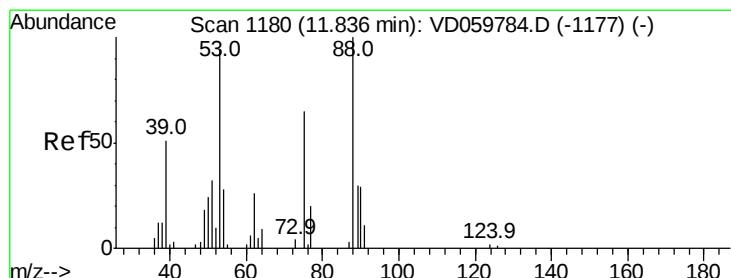
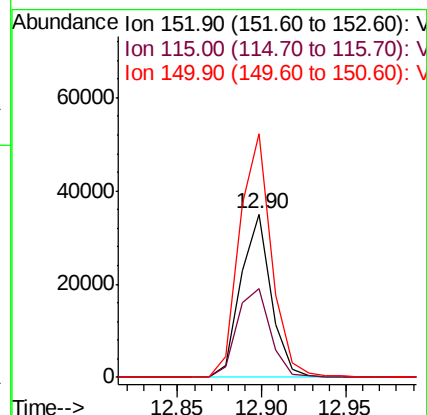
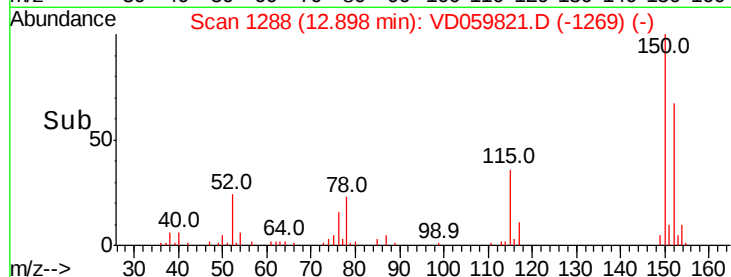
150 149.0 0.0 312.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 115.00 (114.70 to 115.70): V

Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene

Concen: 215.613 ug/l

RT: 11.91 min Scan# 1188

Delta R.T. 0.08 min

Lab File: VD059821.D

Acq: 16 Aug 2018 20:10

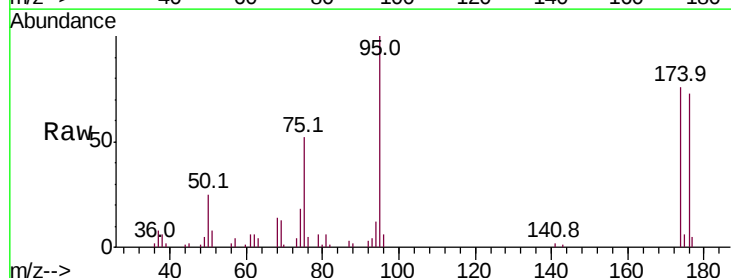
Tgt Ion: 75 Resp: 31241

Ion Ratio Lower Upper

75 100

53 0.0 116.2 174.2#

89 0.0 37.0 55.6#



Abundance Ion 75.00 (74.70 to 75.70): VDC

Ion 53.00 (52.70 to 53.70): VDC

Ion 89.00 (88.70 to 89.70): VDC

