

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD081518\  
 Data File : VD059801.D  
 Acq On : 15 Aug 2018 17:49  
 Operator : VA/AP  
 Sample : J4477-04  
 Misc : 10.08g/5ml/MSVOA D/SOIL  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Aug 16 07:47:30 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      | 5.63  | 168  | 258421   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 6.67  | 114  | 340501   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 10.67 | 117  | 270185   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 12.90 | 152  | 134630   | 50.00 | ug/l  | -0.01    |

| System Monitoring Compounds |        | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|--------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   |        | 6.00  | 65   | 158179   | 47.64 | ug/l   | -0.01    |
| Spiked Amount               | 50.000 |       |      | Recovery | =     | 95.28% |          |
| 35) Dibromofluoromethane    |        | 5.53  | 113  | 139234   | 46.92 | ug/l   | -0.01    |
| Spiked Amount               | 50.000 |       |      | Recovery | =     | 93.84% |          |
| 50) Toluene-d8              |        | 8.70  | 98   | 302616   | 43.06 | ug/l   | -0.01    |
| Spiked Amount               | 50.000 |       |      | Recovery | =     | 86.12% |          |
| 62) 4-Bromofluorobenzene    |        | 11.92 | 95   | 124150   | 39.43 | ug/l   | 0.00     |
| Spiked Amount               | 50.000 |       |      | Recovery | =     | 78.86% |          |

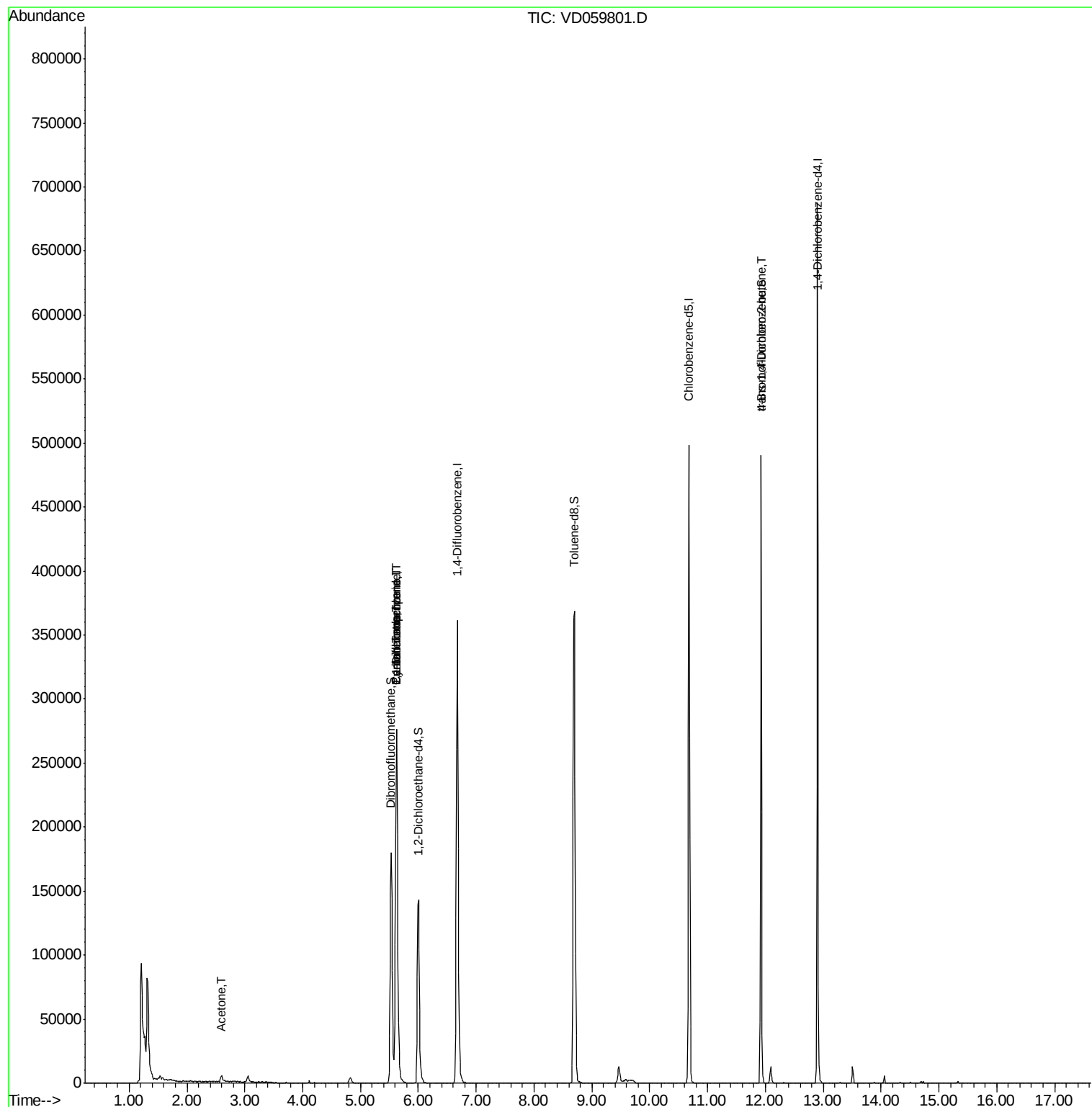
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 16) Acetone                    | 2.60  | 43   | 10035    | 19.151    | ug/l   | 95     |
| 20) Methylene Chloride         | 3.05  | 84   | 2155     | Below Cal | #      | 65     |
| 31) Cyclohexane                | 5.62  | 56   | 6047     | 1.793     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 5.62  | 75   | 23036    | 6.594     | ug/l # | 51     |
| 38) Carbon Tetrachloride       | 5.62  | 117  | 24689    | 5.858     | ug/l # | 13     |
| 81) trans-1,4-Dichloro-2-buten | 11.92 | 75   | 62290    | 139.383   | ug/l # | 1      |

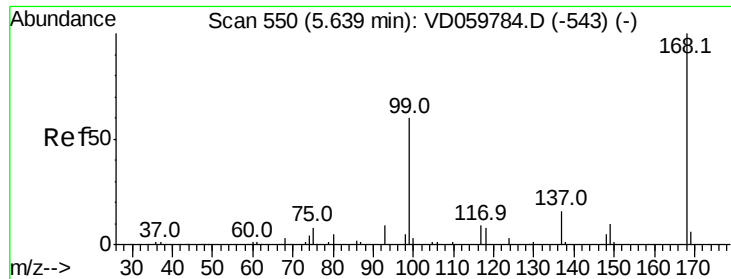
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :

Quant Time: Aug 16 07:47:30 2018  
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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: 5.63 min Scan# 549

Delta R.T. -0.01 min

Lab File: VD059801.D

Acq: 15 Aug 2018 17:49

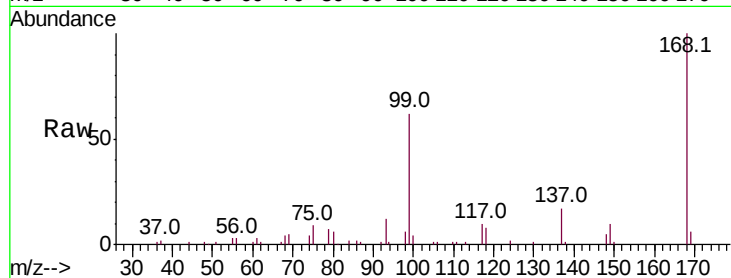
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:168 Resp: 258421

Ion Ratio Lower Upper

168 100

99 61.7 50.3 75.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

5.63

80000

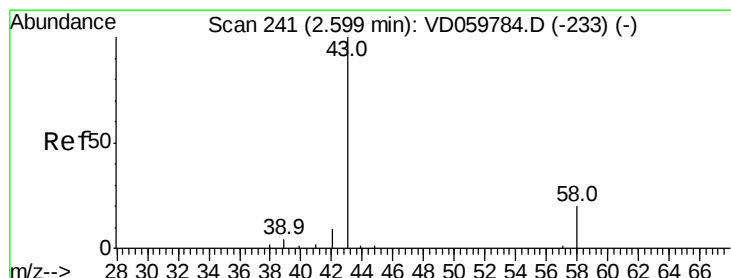
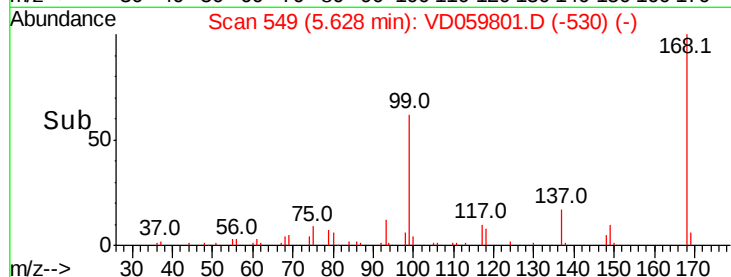
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 19.151 ug/l

RT: 2.60 min Scan# 241

Delta R.T. -0.00 min

Lab File: VD059801.D

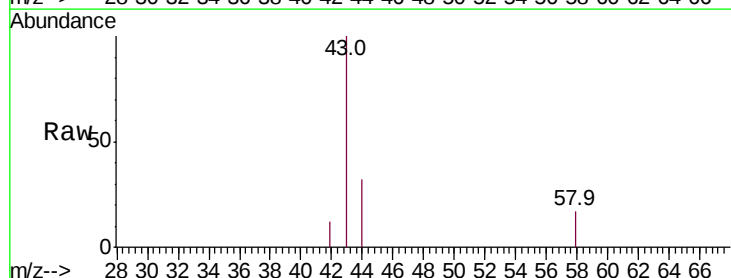
Acq: 15 Aug 2018 17:49

Tgt Ion: 43 Resp: 10035

Ion Ratio Lower Upper

43 100

58 17.5 15.7 23.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

2.60

4000

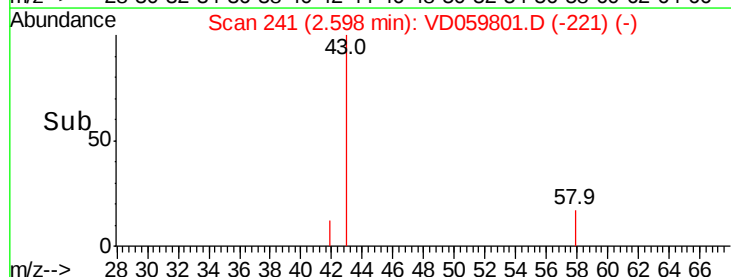
3000

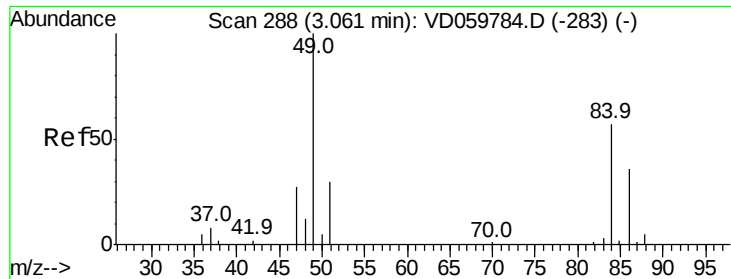
2000

1000

0

Time-->

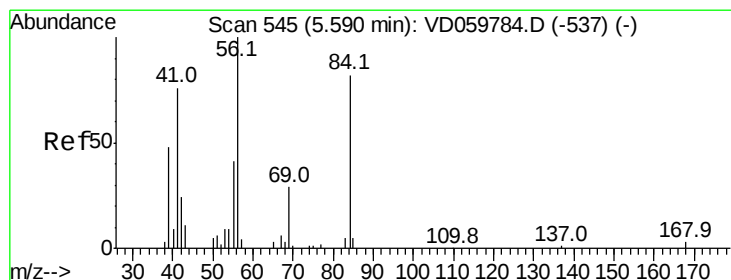
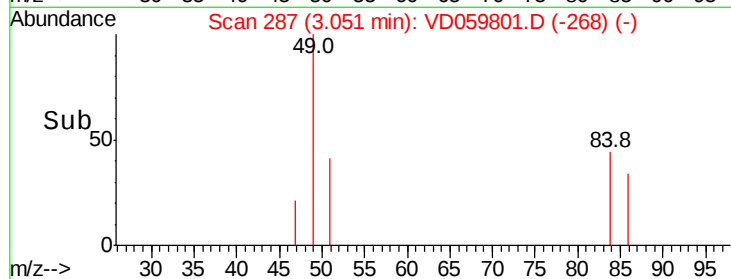
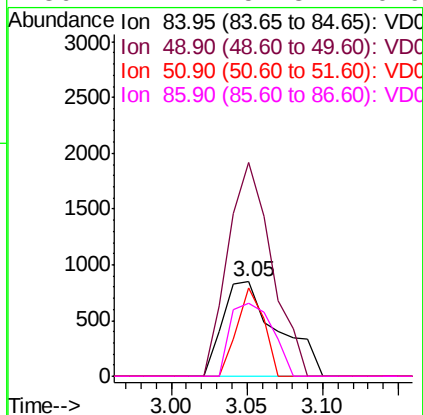
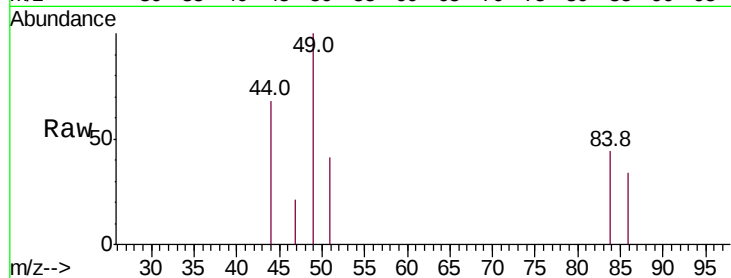




#20  
Methvlene Chloride  
Concen: Below Cal  
RT: 3.05 min Scan# 287  
Delta R.T. -0.01 min  
Lab File: VD059801.D  
Acq: 15 Aug 2018 17:49

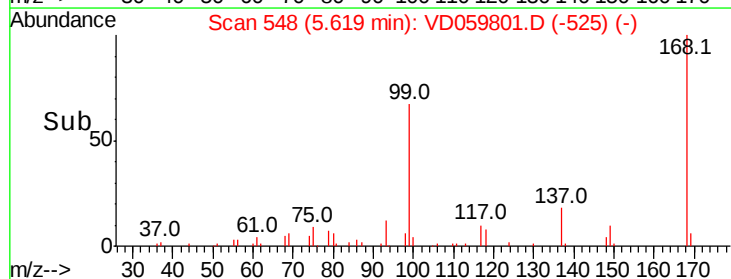
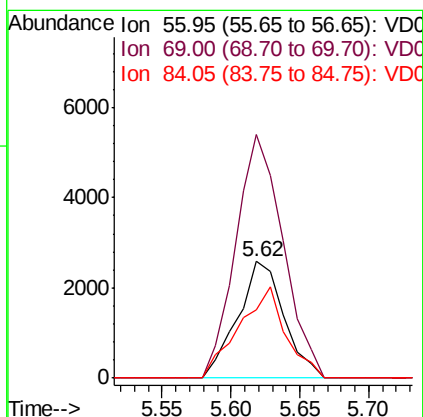
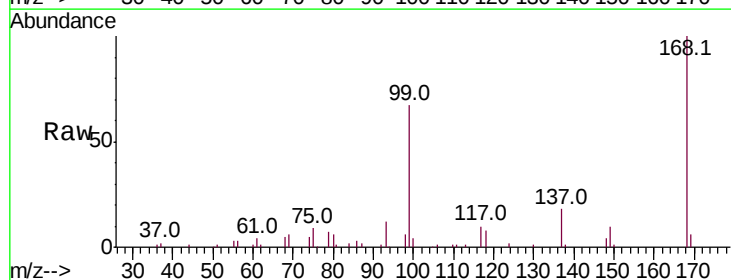
Instrument :  
MSVOA\_D  
ClientSampled :

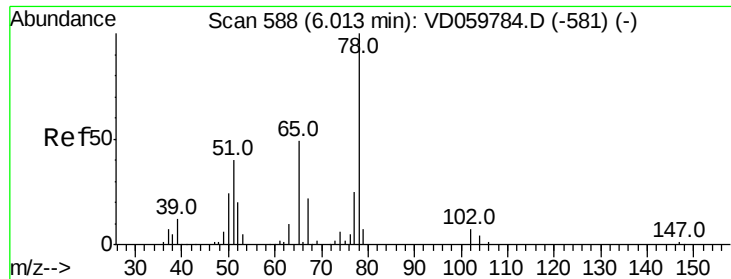
Tot Ion: 84 Resp: 2155  
Ion Ratio Lower Upper  
84 100  
49 225.9 140.9 211.3#  
51 93.3 42.8 64.2#  
86 77.4 51.3 76.9#



#31  
Cyclohexane  
Concen: 1.793 ug/l  
RT: 5.62 min Scan# 548  
Delta R.T. 0.03 min  
Lab File: VD059801.D  
Acq: 15 Aug 2018 17:49

Tgt Ion: 56 Resp: 6047  
Ion Ratio Lower Upper  
56 100  
69 208.7 23.4 35.2#  
84 58.3 65.4 98.2#





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.00 min Scan# 587

Delta R.T. -0.01 min

Lab File: VD059801.D

Acq: 15 Aug 2018 17:49

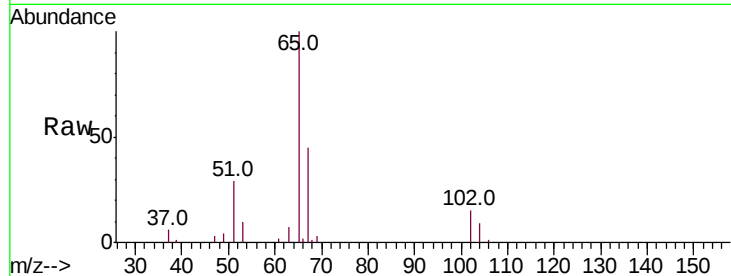
Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 65 Resp: 158179

Ion Ratio Lower Upper

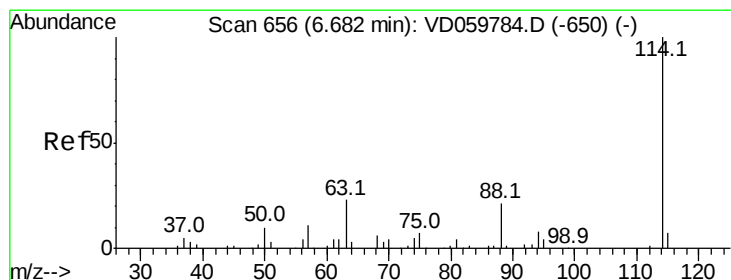
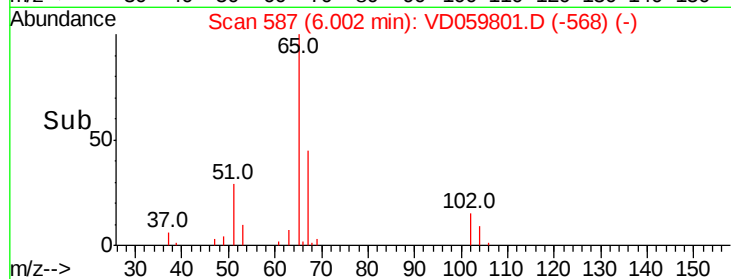
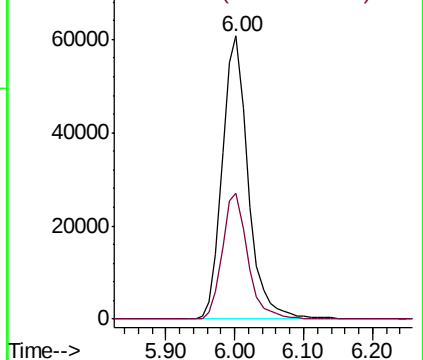
65 100

67 44.6 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: 6.67 min Scan# 655

Delta R.T. -0.01 min

Lab File: VD059801.D

Acq: 15 Aug 2018 17:49

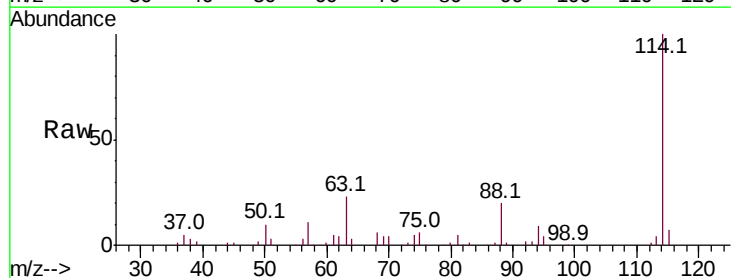
Tgt Ion: 114 Resp: 340501

Ion Ratio Lower Upper

114 100

63 23.3 0.0 45.0

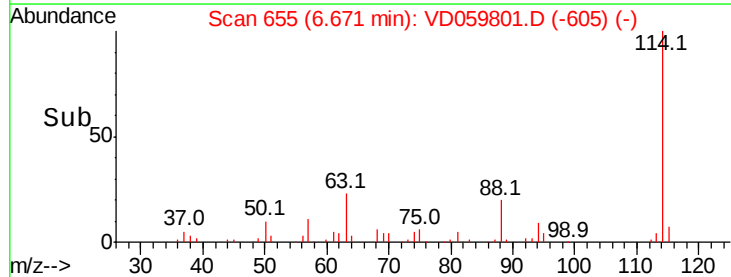
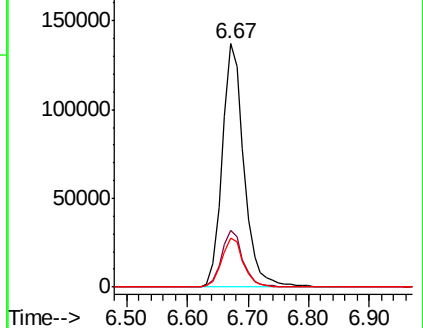
88 20.2 0.0 41.2

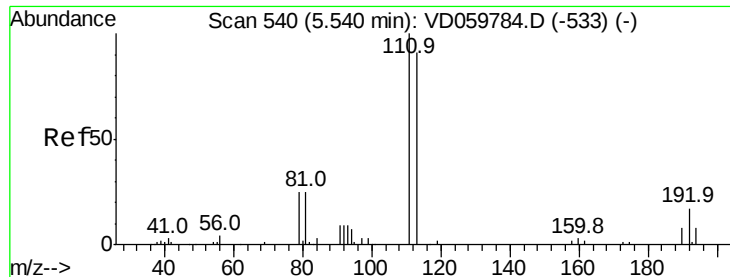


Abundance Ion 114.00 (113.70 to 114.70): V

Ion 62.95 (62.65 to 63.65): VDC

Ion 87.90 (87.60 to 88.60): VDC





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 5.53 min Scan# 539

Delta R.T. -0.01 min

Lab File: VD059801.D

Acq: 15 Aug 2018 17:49

Instrument :

MSVOA\_D

ClientSampleId :

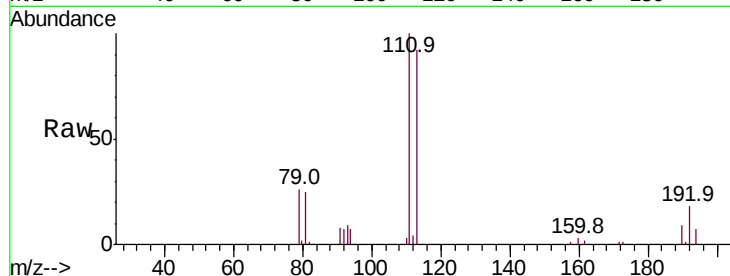
Tot Ion:113 Resp: 139234

Ion Ratio Lower Upper

113 100

111 108.8 87.7 131.5

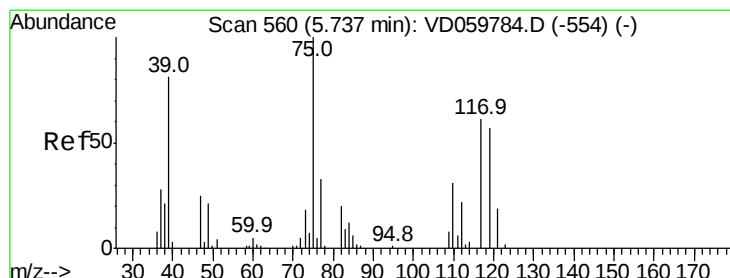
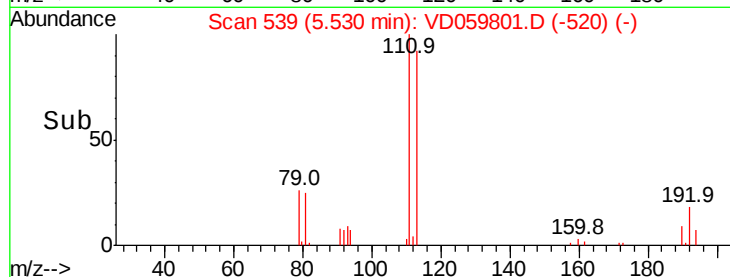
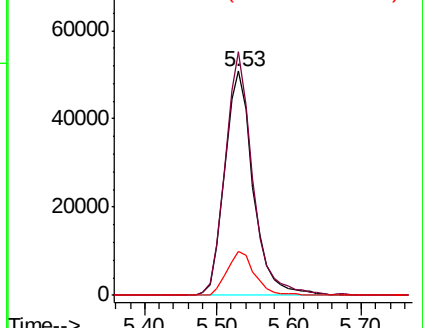
192 19.9 14.6 21.8



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: 6.594 ug/l

RT: 5.62 min Scan# 548

Delta R.T. -0.12 min

Lab File: VD059801.D

Acq: 15 Aug 2018 17:49

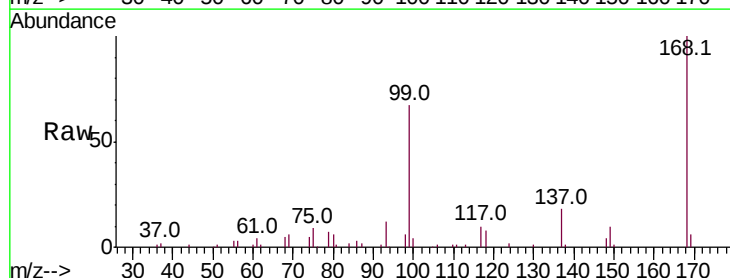
Tgt Ion: 75 Resp: 23036

Ion Ratio Lower Upper

75 100

110 9.2 15.3 45.8#

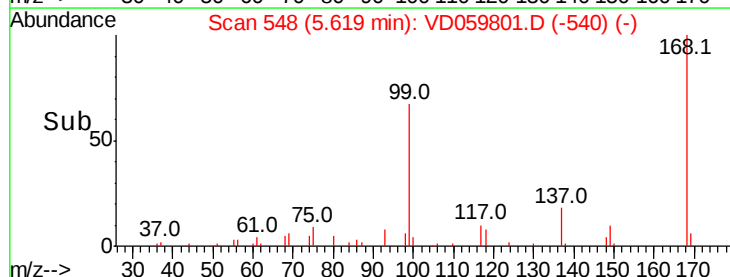
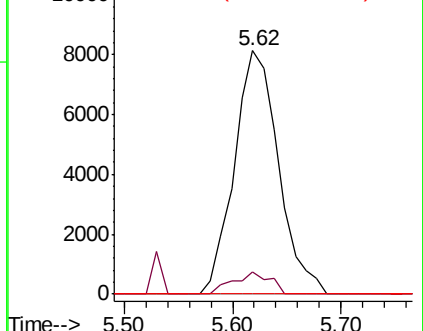
77 0.0 26.2 39.4#

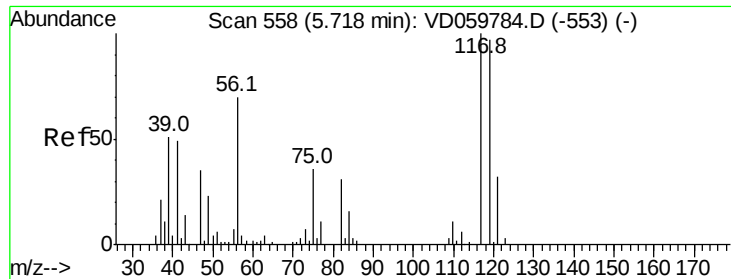


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

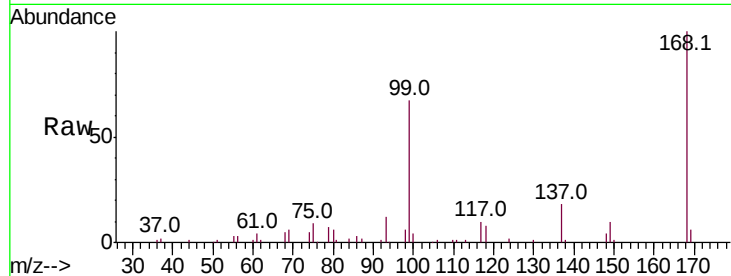




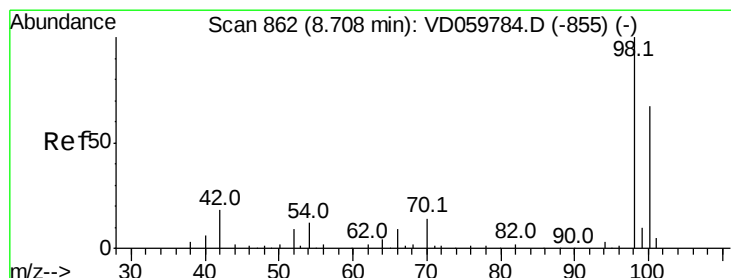
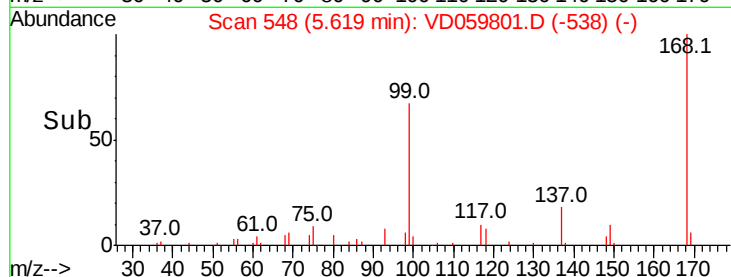
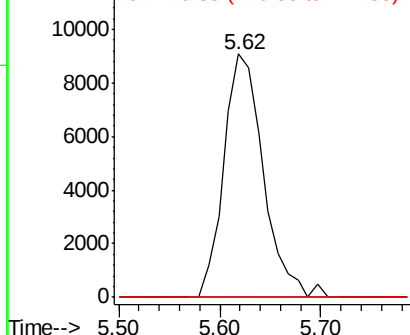
#38  
Carbon Tetrachloride  
Concen: 5.858 ug/l  
RT: 5.62 min Scan# 548  
Delta R.T. -0.10 min  
Lab File: VD059801.D  
Acq: 15 Aug 2018 17:49

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion:117 Resp: 24689  
Ion Ratio Lower Upper  
117 100  
119 0.0 75.7 113.5#  
121 0.0 24.7 37.1#

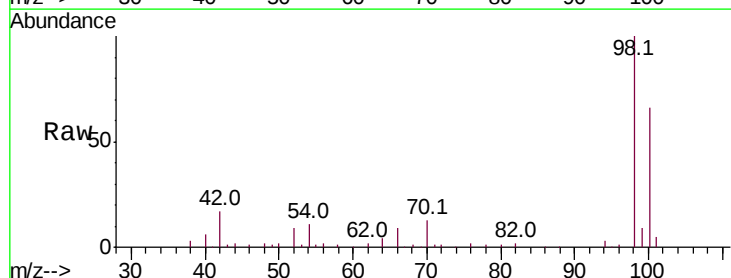


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

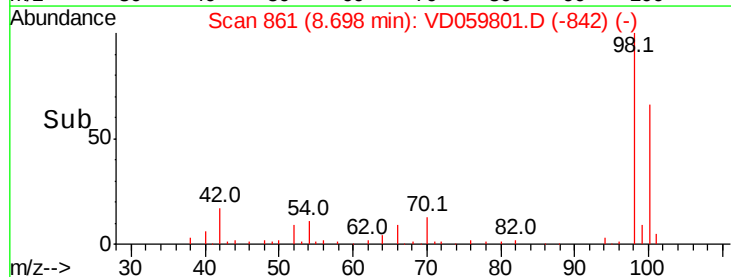
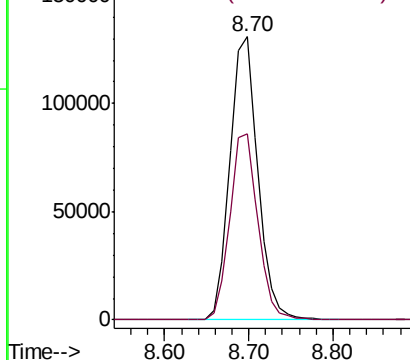


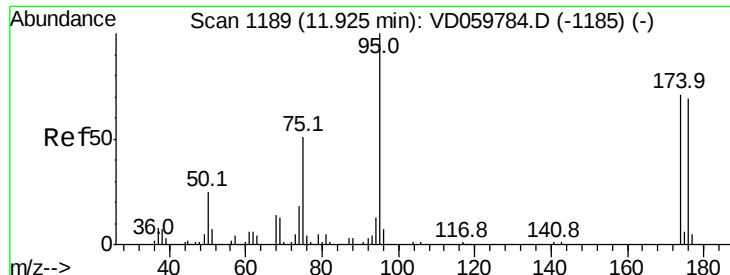
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 8.70 min Scan# 861  
Delta R.T. -0.01 min  
Lab File: VD059801.D  
Acq: 15 Aug 2018 17:49

Tgt Ion: 98 Resp: 302616  
Ion Ratio Lower Upper  
98 100  
100 65.5 54.2 81.4



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

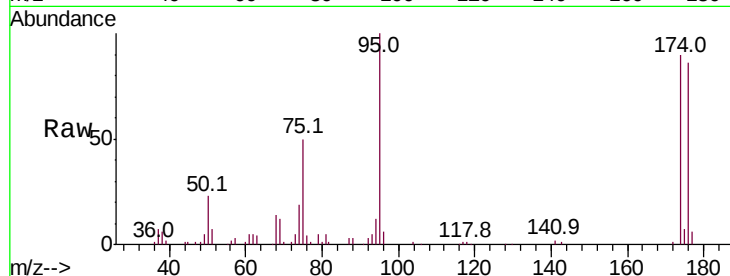




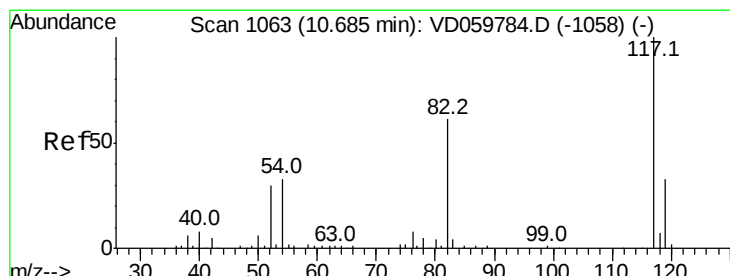
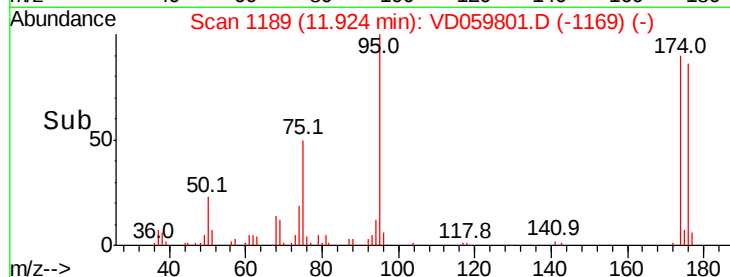
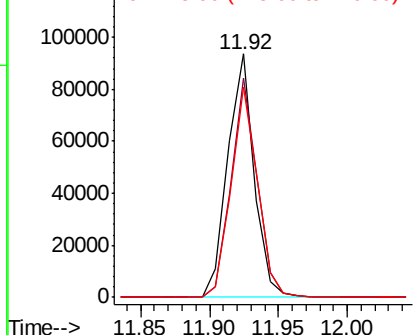
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 11.92 min Scan# 1189  
Delta R.T. -0.00 min  
Lab File: VD059801.D  
Acq: 15 Aug 2018 17:49

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 95 Resp: 124150  
Ion Ratio Lower Upper  
95 100  
174 90.0 0.0 142.2  
176 86.3 0.0 137.4

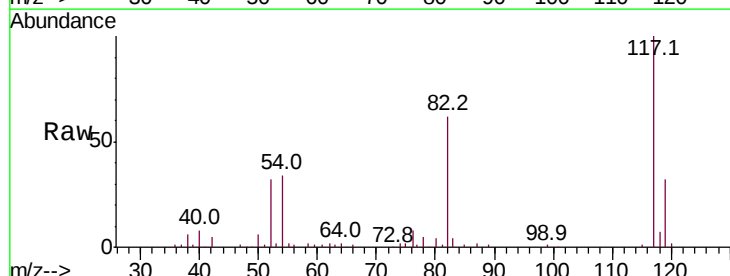


Abundance Ion 95.00 (94.70 to 95.70): V  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V

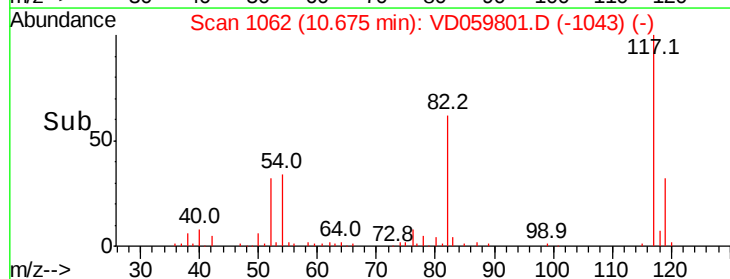
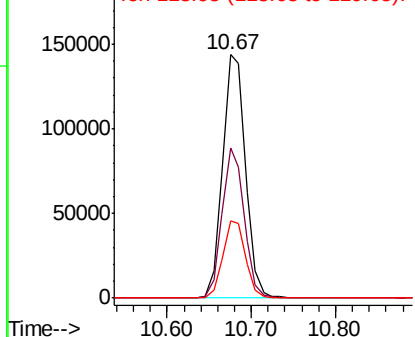


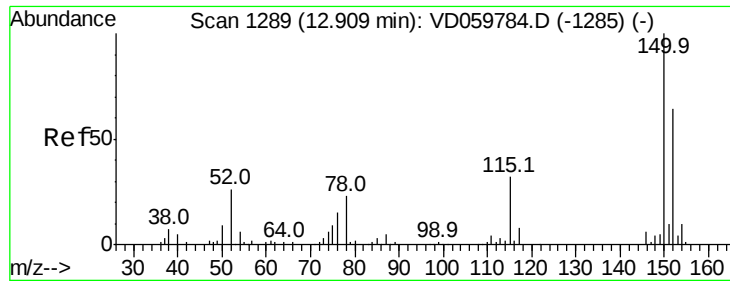
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 10.67 min Scan# 1062  
Delta R.T. -0.01 min  
Lab File: VD059801.D  
Acq: 15 Aug 2018 17:49

Tgt Ion: 117 Resp: 270185  
Ion Ratio Lower Upper  
117 100  
82 61.7 49.0 73.6  
119 31.8 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



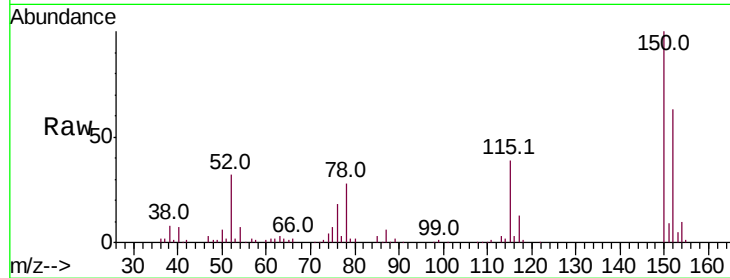


#72

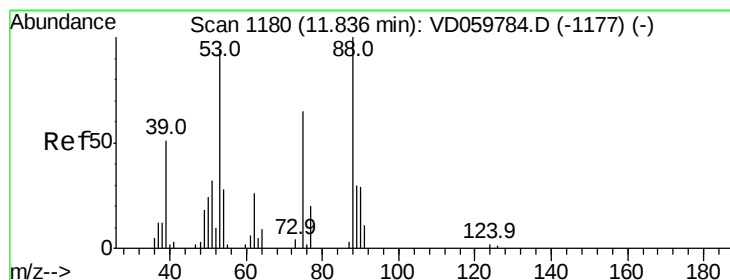
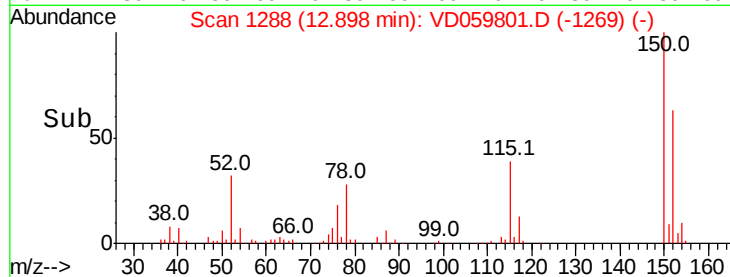
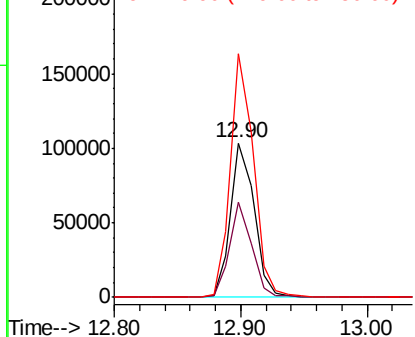
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 12.90 min Scan# 1288  
Delta R.T. -0.01 min  
Lab File: VD059801.D  
Acq: 15 Aug 2018 17:49

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion:152 Resp: 134630  
Ion Ratio Lower Upper  
152 100  
115 61.3 27.2 81.5  
150 157.7 0.0 312.4



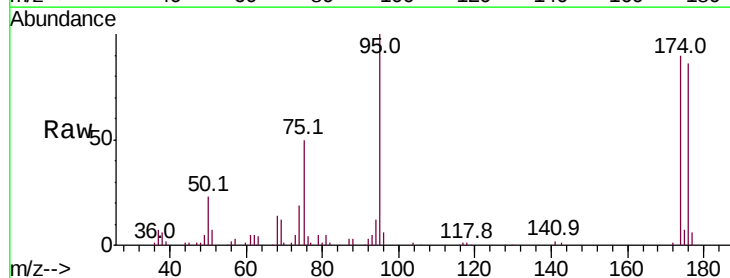
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 115.00 (114.70 to 115.70): V  
Ion 149.90 (149.60 to 150.60): V



#81

trans-1,4-Dichloro-2-butene  
Concen: 139.383 ug/l  
RT: 11.92 min Scan# 1189  
Delta R.T. 0.09 min  
Lab File: VD059801.D  
Acq: 15 Aug 2018 17:49

Tgt Ion: 75 Resp: 62290  
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

