

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD042919\  
 Data File : VD062074.D  
 Acq On : 29 Apr 2019 20:38  
 Operator : FY/SY  
 Sample : K2194-11  
 Misc : 6.83qm/5mL/MSVOA D/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Apr 30 01:12:43 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D042319S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 23 14:52:55 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.02  | 168  | 422060   | 50.00 | ug/l  | -0.03    |
| 34) 1,4-Difluorobenzene    | 8.19  | 114  | 649611   | 50.00 | ug/l  | -0.03    |
| 63) Chlorobenzene-d5       | 12.35 | 117  | 486337   | 50.00 | ug/l  | -0.02    |
| 72) 1,4-Dichlorobenzene-d4 | 14.50 | 152  | 174980   | 50.00 | ug/l  | -0.02    |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.43  | 65   | 191233   | 57.89 | ug/l    | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 115.78% |          |
| 35) Dibromofluoromethane    | 6.90  | 113  | 274234   | 61.04 | ug/l    | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 122.08% |          |
| 50) Toluene-d8              | 10.39 | 98   | 539938   | 50.51 | ug/l    | -0.03    |
| Spiked Amount               |       |      | Recovery | =     | 101.02% |          |
| 62) 4-Bromofluorobenzene    | 13.54 | 95   | 199644   | 46.56 | ug/l    | -0.02    |
| Spiked Amount               |       |      | Recovery | =     | 93.12%  |          |

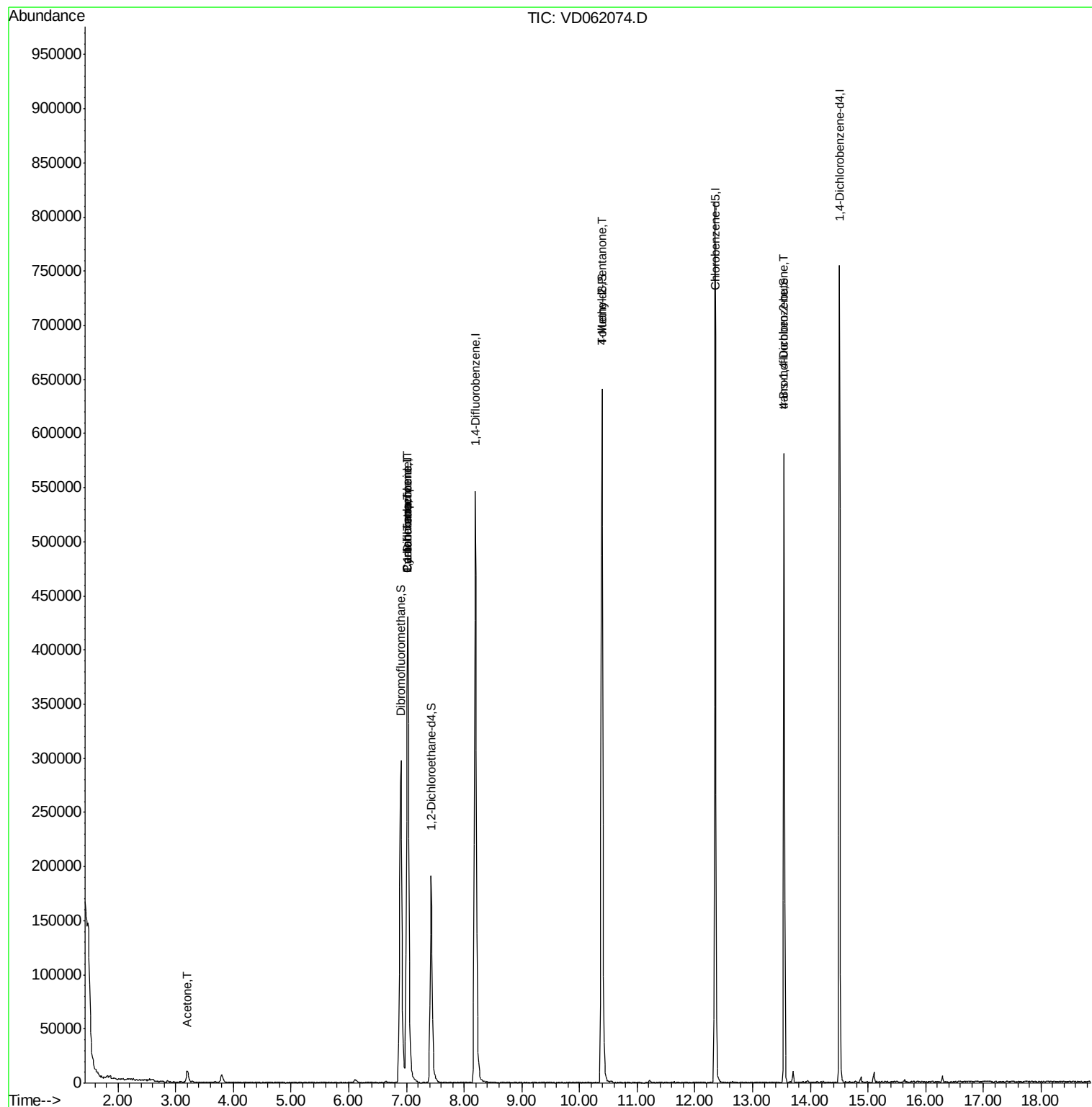
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.17  | 94   | 374      | Below Cal | #      | 12     |
| 16) Acetone                    | 3.20  | 43   | 22468    | 28.486    | ug/l # | 84     |
| 18) Methyl Acetate             | 3.62  | 43   | 189      | Below Cal | #      | 53     |
| 20) Methylene Chloride         | 3.79  | 84   | 5593     | Below Cal |        | 92     |
| 31) Cyclohexane                | 7.01  | 56   | 7419     | 1.508     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.02  | 75   | 31570    | 6.238     | ug/l # | 46     |
| 38) Carbon Tetrachloride       | 7.02  | 117  | 41075    | 6.405     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.38 | 43   | 2249     | 1.167     | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 13.54 | 75   | 77855    | 115.624   | ug/l # | 16     |

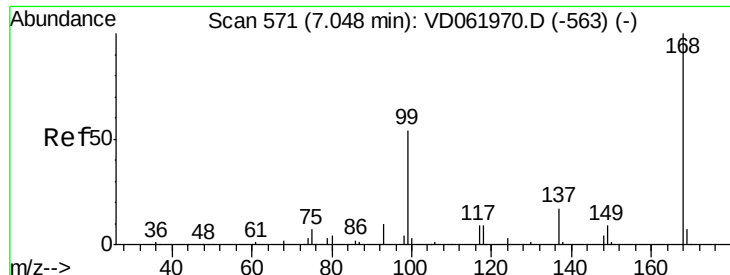
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD042919\  
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Quant Title : SW846 8260  
QLast Update : Tue Apr 23 14:52:55 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.02 min Scan# 569

Delta R.T. -0.03 min

Lab File: VD062074.D

Acq: 29 Apr 2019 20:38

Instrument :

MSVOA\_D

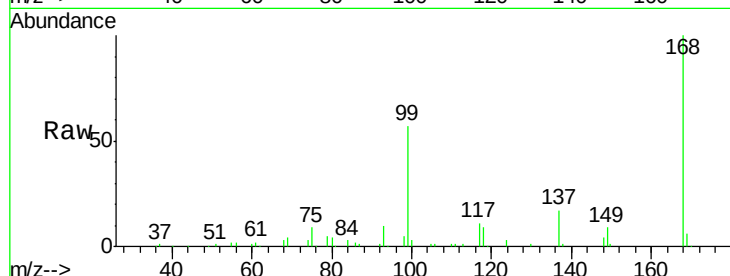
ClientSampleId :

Tot Ion:168 Resp: 422060

Ion Ratio Lower Upper

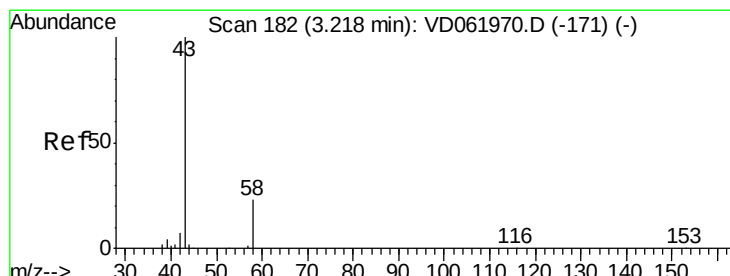
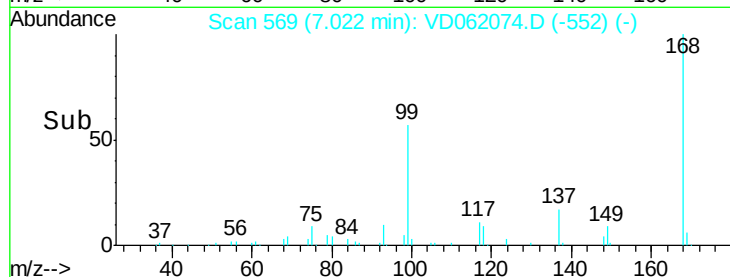
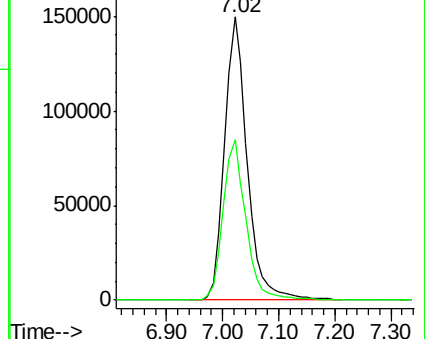
168 100

99 56.7 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 28.486 ug/l

RT: 3.20 min Scan# 181

Delta R.T. -0.02 min

Lab File: VD062074.D

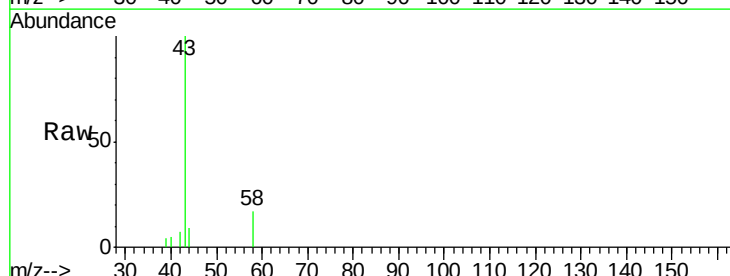
Acq: 29 Apr 2019 20:38

Tgt Ion: 43 Resp: 22468

Ion Ratio Lower Upper

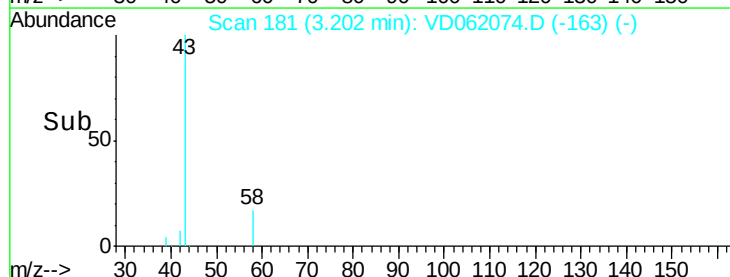
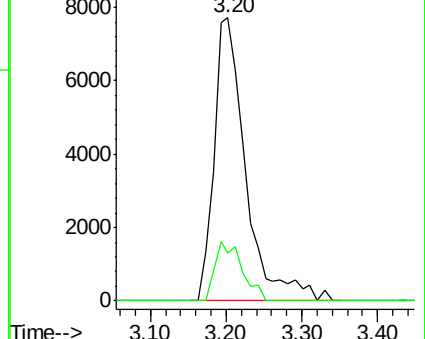
43 100

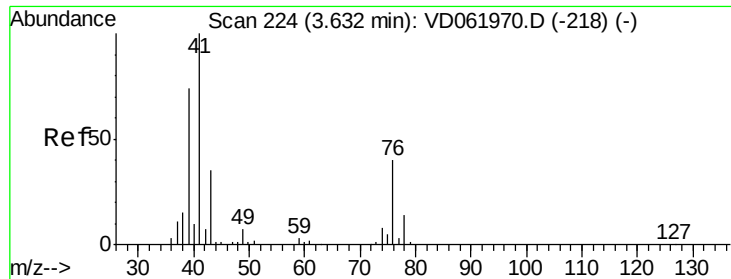
58 16.8 19.9 29.9#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

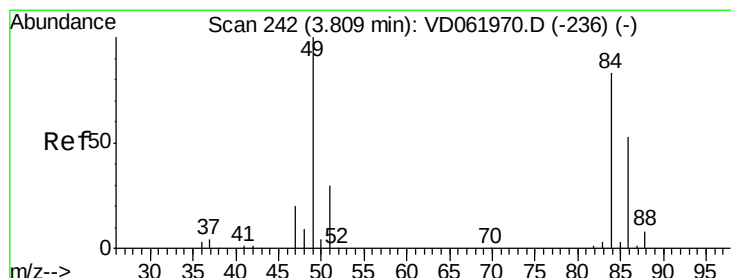
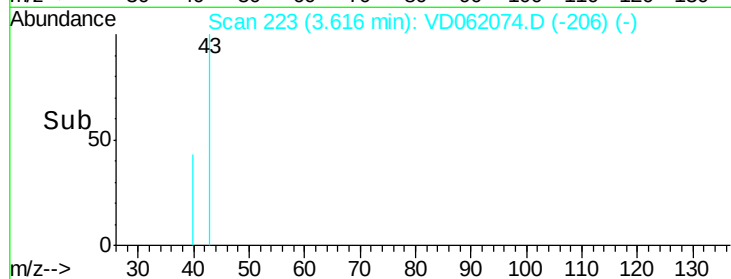
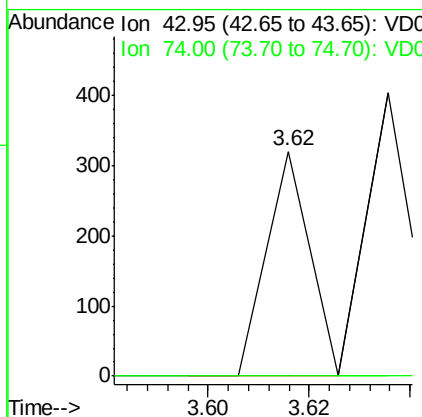
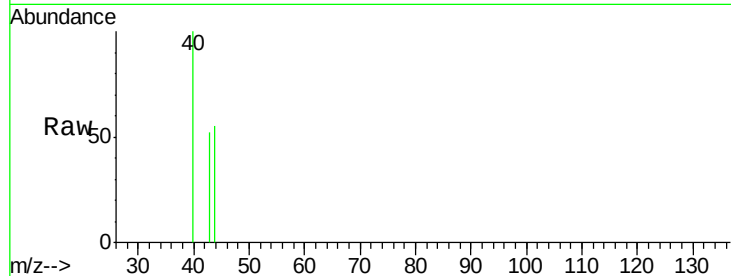




#18  
Methyl Acetate  
Concen: Below Cal  
RT: 3.62 min Scan# 223  
Delta R.T. -0.03 min  
Lab File: VD062074.D  
Acq: 29 Apr 2019 20:38

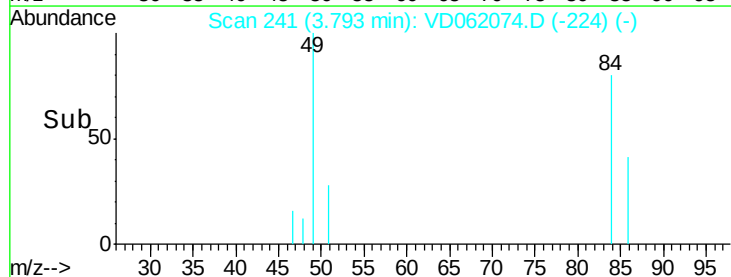
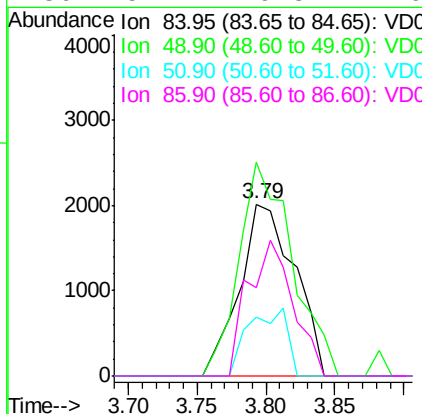
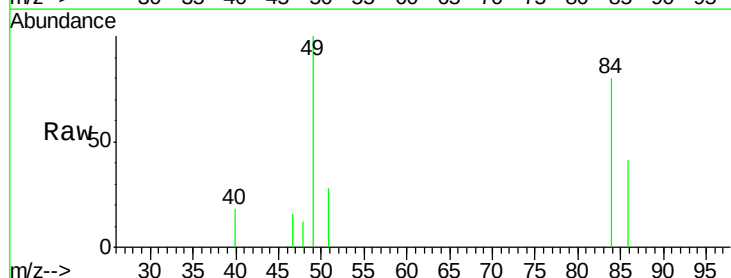
Instrument :  
MSVOA\_D  
ClientSampleId :

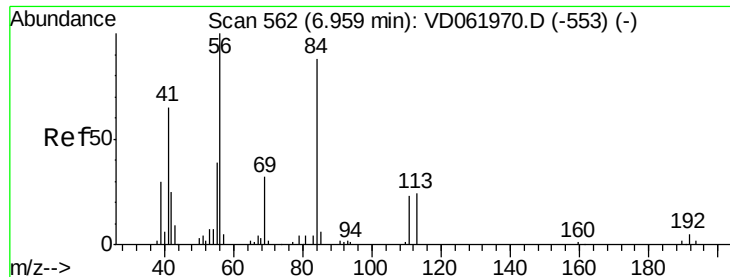
Tot Ion: 43 Resp: 189  
Ion Ratio Lower Upper  
43 100  
74 0.0 18.0 27.0#



#20  
Methylene Chloride  
Concen: Below Cal  
RT: 3.79 min Scan# 241  
Delta R.T. -0.03 min  
Lab File: VD062074.D  
Acq: 29 Apr 2019 20:38

Tgt Ion: 84 Resp: 5593  
Ion Ratio Lower Upper  
84 100  
49 124.3 94.0 141.0  
51 34.5 29.0 43.4  
86 51.2 49.8 74.6

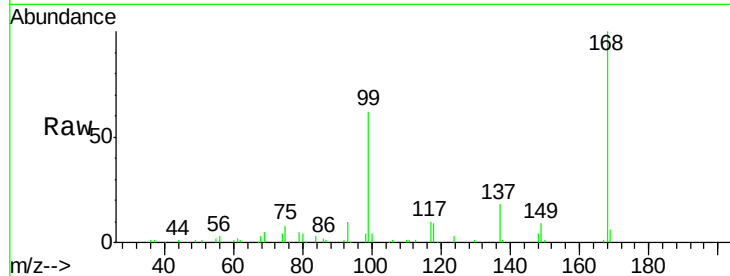




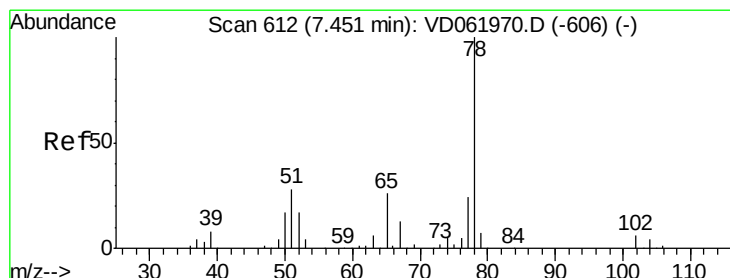
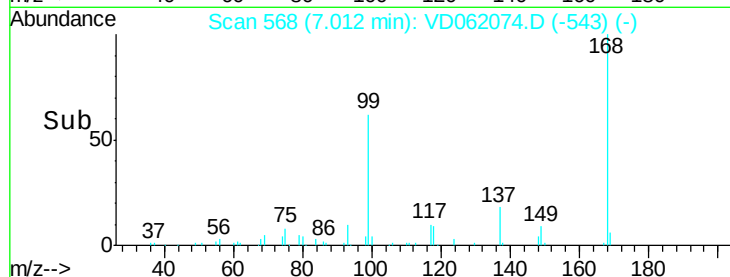
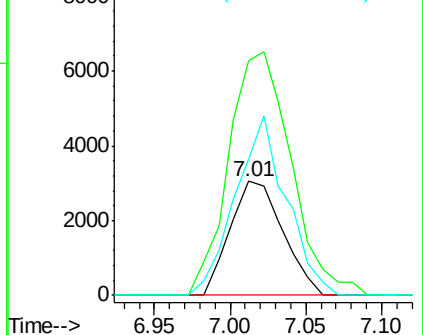
#31  
Cyclohexane  
Concen: 1.508 ug/l  
RT: 7.01 min Scan# 568  
Delta R.T. 0.05 min  
Lab File: VD062074.D  
Acq: 29 Apr 2019 20:38

Instrument :  
MSVOA\_D  
ClientSampled :

Tot Ion: 56 Resp: 7419  
Ion Ratio Lower Upper  
56 100  
69 205.5 25.8 38.6#  
84 118.9 72.2 108.4#

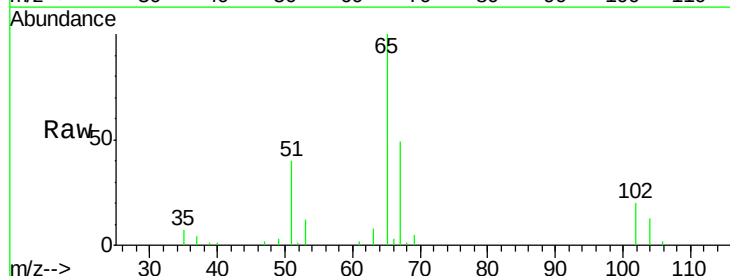


Abundance Ion 55.95 (55.65 to 56.65): VDC  
Ion 69.00 (68.70 to 69.70): VDC  
Ion 84.05 (83.75 to 84.75): VDC

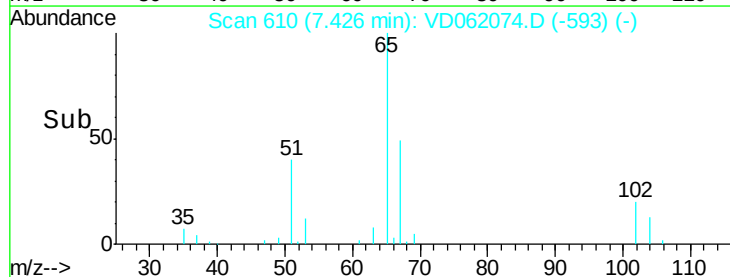
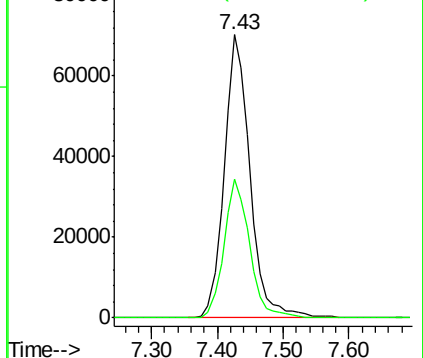


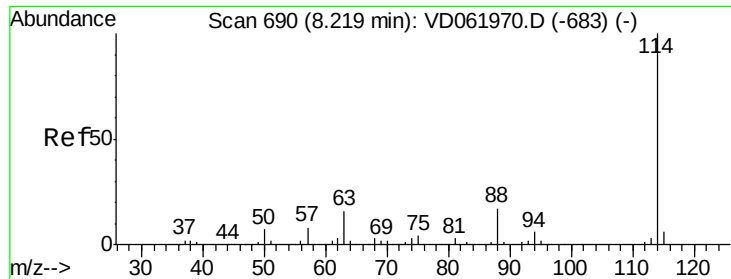
#33  
1,2-Dichloroethane-d4  
Concen: 57.892 ug/l  
RT: 7.43 min Scan# 610  
Delta R.T. -0.03 min  
Lab File: VD062074.D  
Acq: 29 Apr 2019 20:38

Tgt Ion: 65 Resp: 191233  
Ion Ratio Lower Upper  
65 100  
67 48.9 0.0 98.0



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: 8.19 min Scan# 688

Delta R.T. -0.03 min

Lab File: VD062074.D

Acq: 29 Apr 2019 20:38

Instrument :

MSVOA\_D

ClientSampleId :

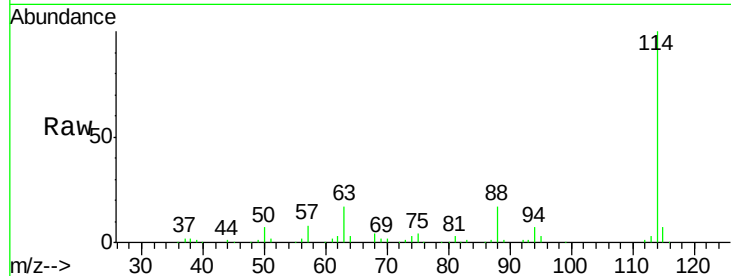
Tot Ion:114 Resp: 649611

Ion Ratio Lower Upper

114 100

63 17.1 0.0 32.4

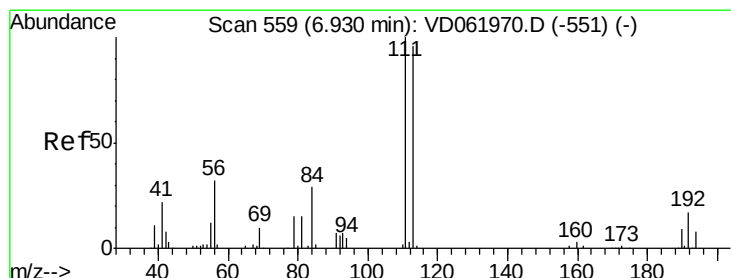
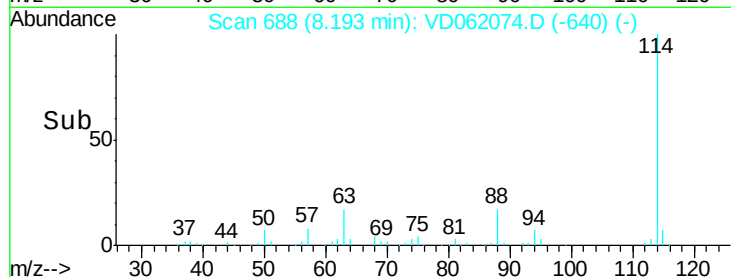
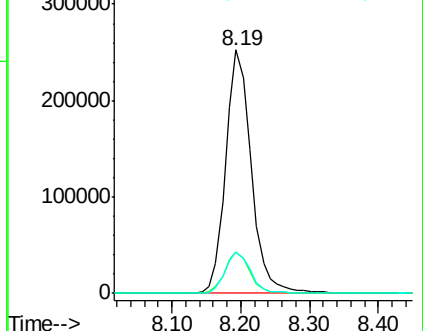
88 16.9 0.0 33.6



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: 61.040 ug/l

RT: 6.90 min Scan# 557

Delta R.T. -0.03 min

Lab File: VD062074.D

Acq: 29 Apr 2019 20:38

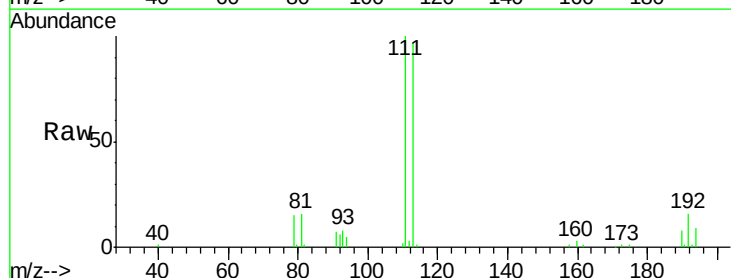
Tgt Ion:113 Resp: 274234

Ion Ratio Lower Upper

113 100

111 102.7 78.5 117.7

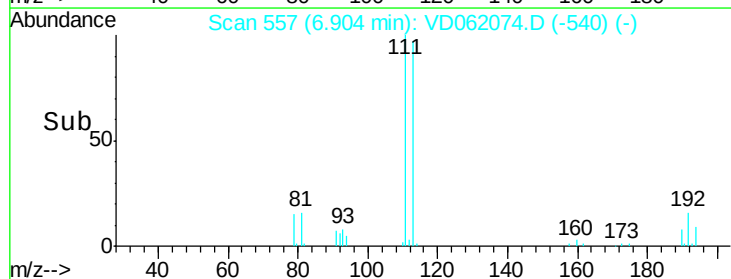
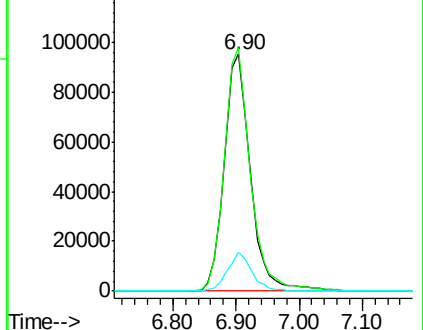
192 16.5 13.0 19.4

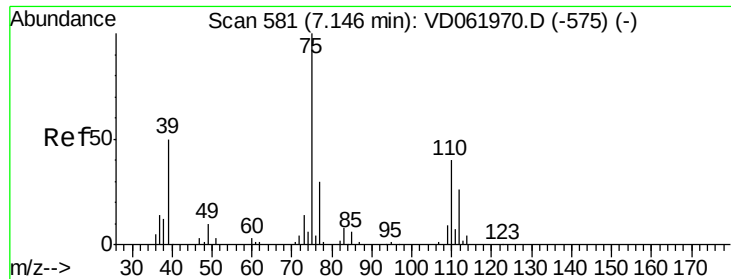


Abundance Ion 112.90 (112.60 to 113.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 191.80 (191.50 to 192.50): V

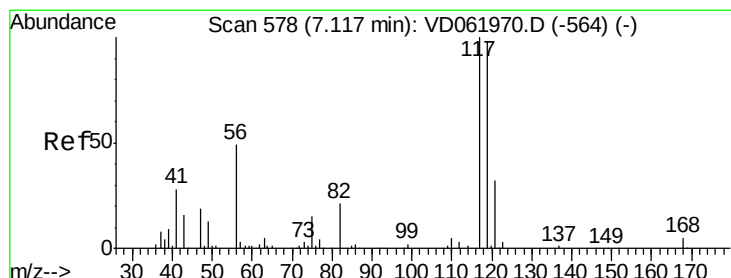
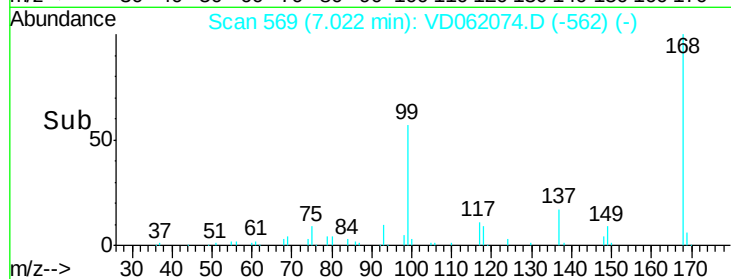
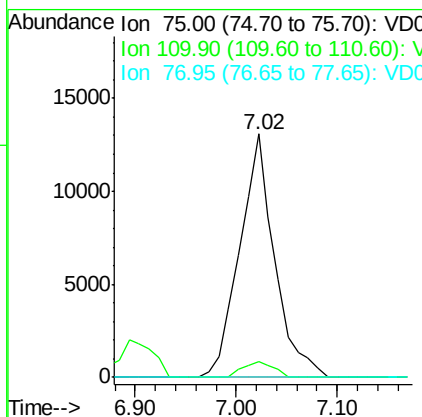
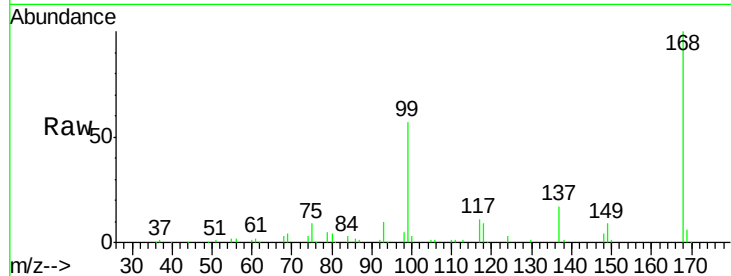




#36  
 1,1-Dichloropropene  
 Concen: 6.238 ug/l  
 RT: 7.02 min Scan# 569  
 Delta R.T. -0.13 min  
 Lab File: VD062074.D  
 Acq: 29 Apr 2019 20:38

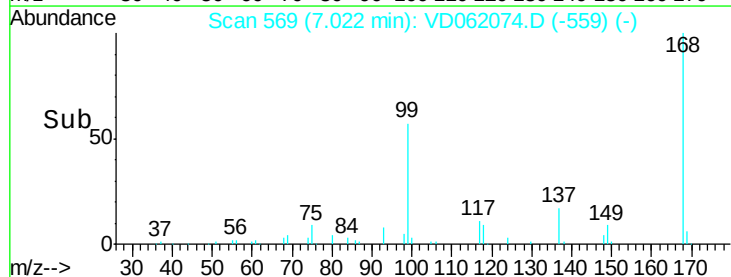
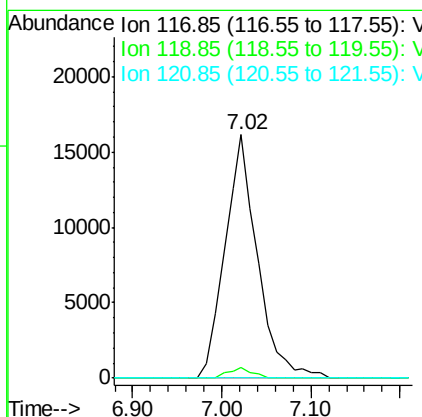
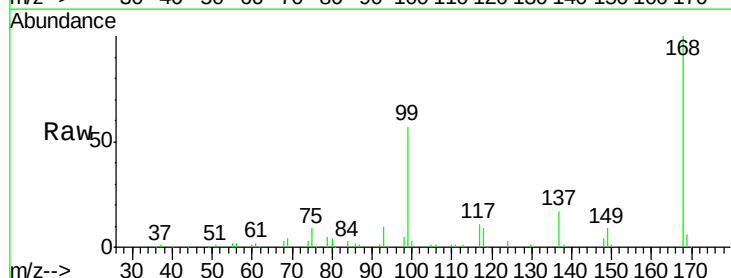
Instrument :  
 MSVOA\_D  
 ClientSampleId :

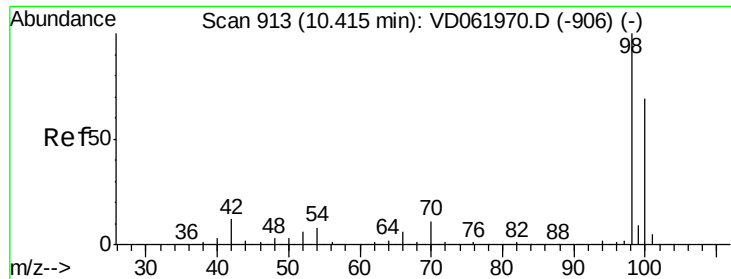
Tot Ion: 75 Resp: 31570  
 Ion Ratio Lower Upper  
 75 100  
 110 6.7 19.1 57.1#  
 77 0.0 25.6 38.4#



#38  
 Carbon Tetrachloride  
 Concen: 6.405 ug/l  
 RT: 7.02 min Scan# 569  
 Delta R.T. -0.10 min  
 Lab File: VD062074.D  
 Acq: 29 Apr 2019 20:38

Tgt Ion: 117 Resp: 41075  
 Ion Ratio Lower Upper  
 117 100  
 119 4.4 75.8 113.8#  
 121 0.0 25.9 38.9#

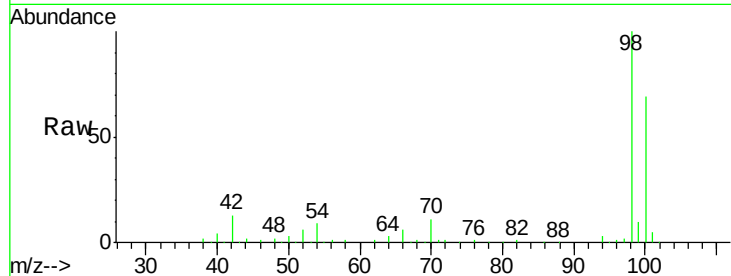




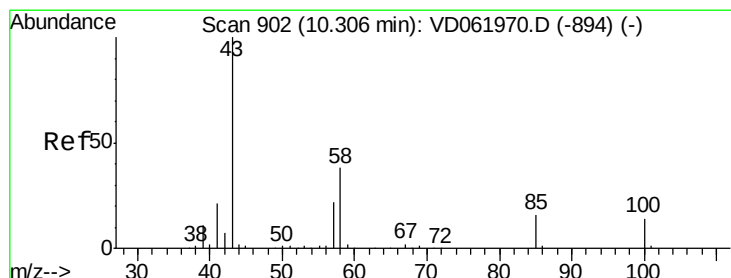
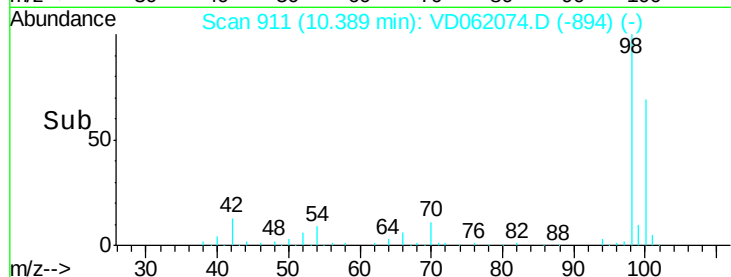
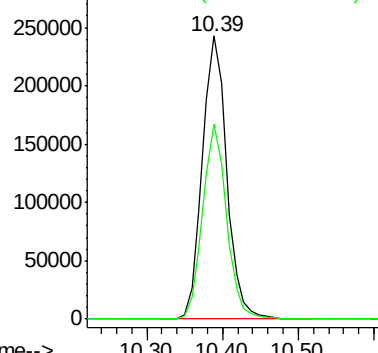
#50  
Toluene-d8  
Concen: 50.507 ug/l  
RT: 10.39 min Scan# 911  
Delta R.T. -0.03 min  
Lab File: VD062074.D  
Acq: 29 Apr 2019 20:38

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 98 Resp: 539938  
Ion Ratio Lower Upper  
98 100  
100 68.9 53.8 80.8

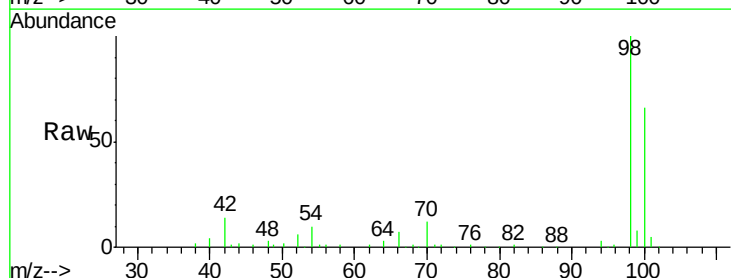


Abundance Ion 98.05 (97.75 to 98.75): VD061970.D (-906) (-)  
Ion 100.05 (99.75 to 100.75): VD061970.D (-906) (-)

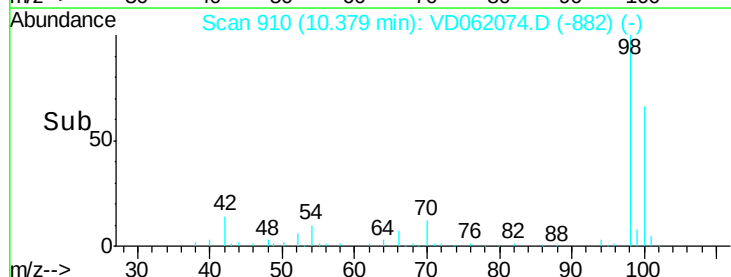
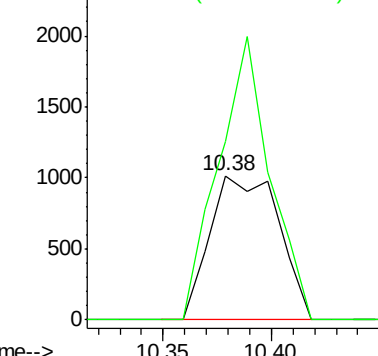


#51  
4-Methyl-2-Pentanone  
Concen: 1.167 ug/l  
RT: 10.38 min Scan# 910  
Delta R.T. 0.08 min  
Lab File: VD062074.D  
Acq: 29 Apr 2019 20:38

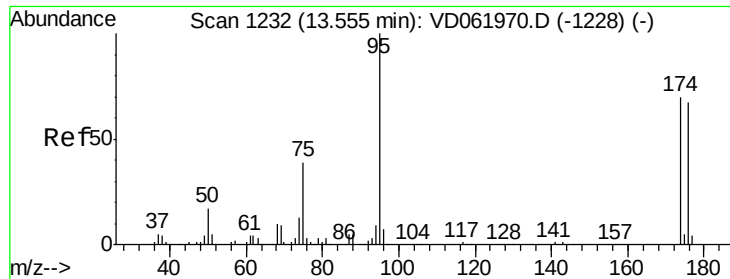
Tgt Ion: 43 Resp: 2249  
Ion Ratio Lower Upper  
43 100  
58 123.2 30.4 45.6#



Abundance Ion 42.95 (42.65 to 43.65): VD061970.D (-894) (-)  
Ion 57.95 (57.65 to 58.65): VD061970.D (-894) (-)







#62

4-Bromofluorobenzene

Concen: 46.561 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. -0.02 min

Lab File: VD062074.D

Acq: 29 Apr 2019 20:38

Instrument :

MSVOA\_D

ClientSampleId :

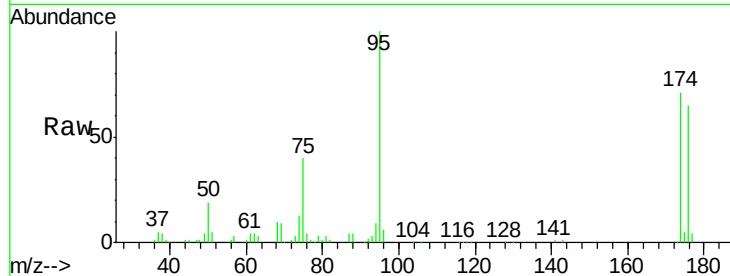
Tot Ion: 95 Resp: 199644

Ion Ratio Lower Upper

95 100

174 71.4 0.0 181.8

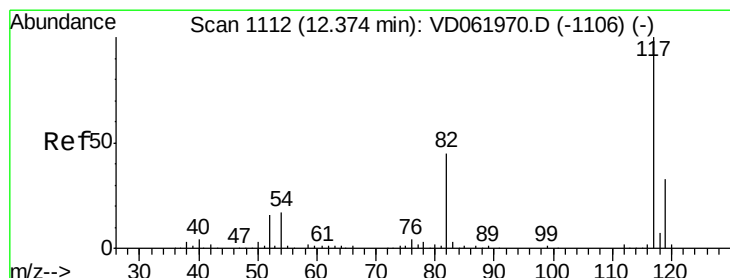
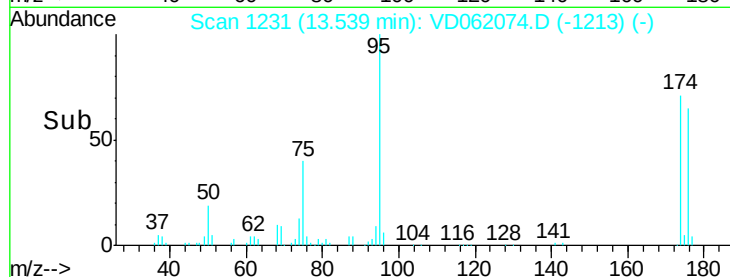
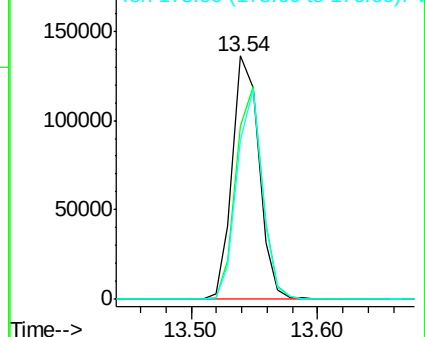
176 65.4 0.0 174.4



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: 12.35 min Scan# 1110

Delta R.T. -0.02 min

Lab File: VD062074.D

Acq: 29 Apr 2019 20:38

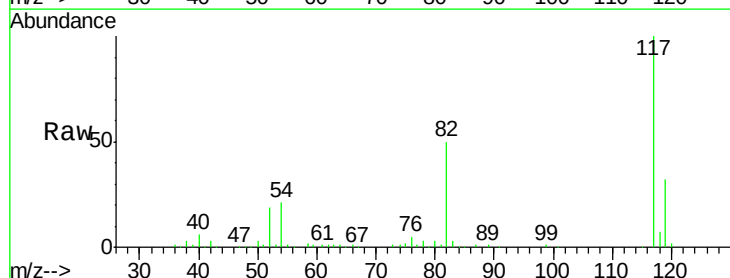
Tgt Ion: 117 Resp: 486337

Ion Ratio Lower Upper

117 100

82 49.8 36.2 54.2

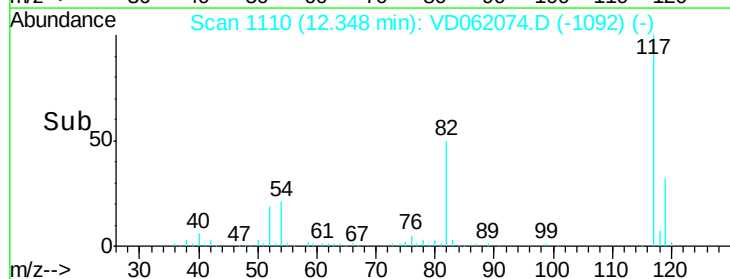
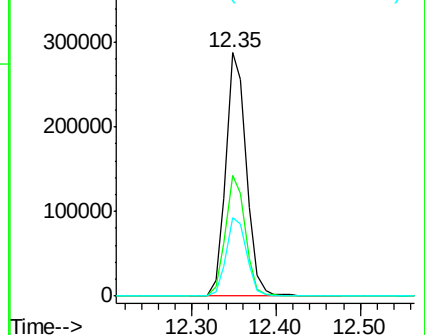
119 32.3 26.2 39.4

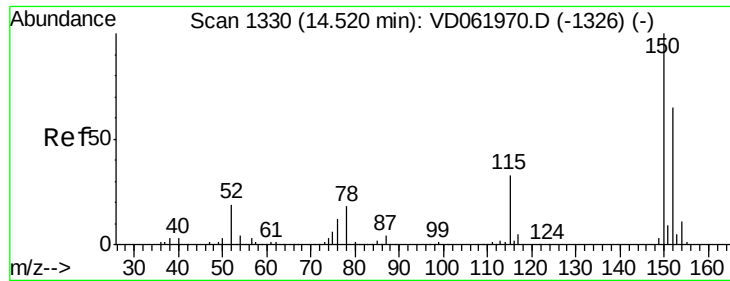


Abundance Ion 116.95 (116.65 to 117.65): V

Ion 82.05 (81.75 to 82.75): V

Ion 118.95 (118.65 to 119.65): V

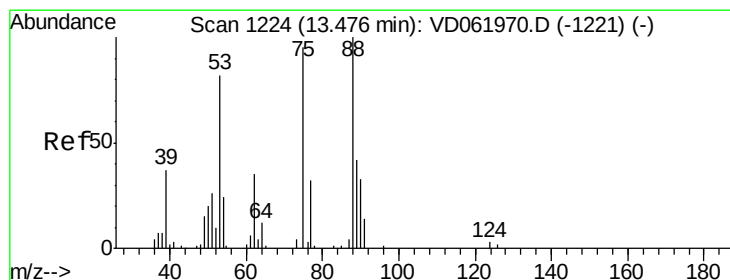
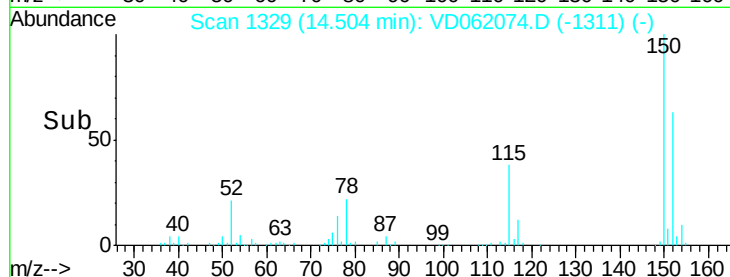
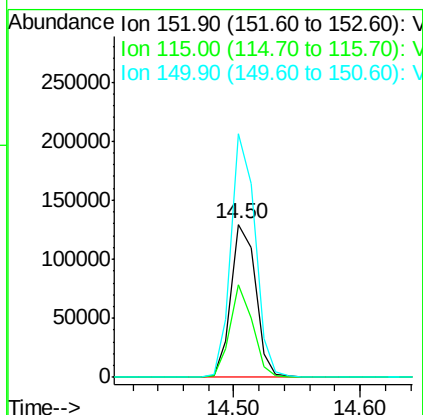
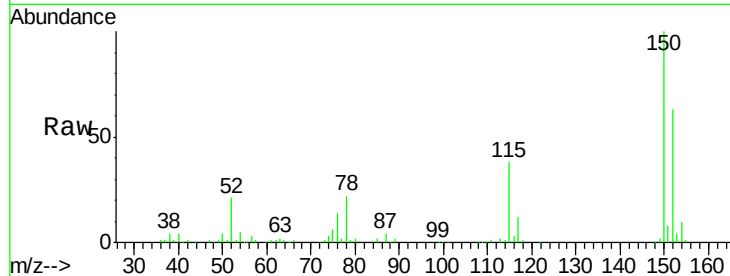




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 14.50 min Scan# 1329  
 Delta R.T. -0.02 min  
 Lab File: VD062074.D  
 Acq: 29 Apr 2019 20:38

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Tot Ion:152 Resp: 174980  
 Ion Ratio Lower Upper  
 152 100  
 115 61.0 30.9 92.7  
 150 159.4 0.0 314.8



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 115.624 ug/l  
 RT: 13.54 min Scan# 1231  
 Delta R.T. 0.06 min  
 Lab File: VD062074.D  
 Acq: 29 Apr 2019 20:38

Tgt Ion: 75 Resp: 77855  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 65.8 98.8#  
 89 0.0 35.0 52.6#

