

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD031919\  
 Data File : VD061180.D  
 Acq On : 19 Mar 2019 12:59  
 Operator : VA/AP  
 Sample : K1970-10RE  
 Misc : 5.04g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P-10-W.WALL-NORTH

Quant Time: Mar 19 13:57:51 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Mar 08 02:35:39 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.03  | 168  | 758711   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.20  | 114  | 1226015  | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 984624   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.51 | 152  | 445463   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.44  | 65   | 271753   | 43.03 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 86.06%  |          |
| 35) Dibromofluoromethane    | 6.91  | 113  | 472177   | 51.90 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 103.80% |          |
| 50) Toluene-d8              | 10.40 | 98   | 1147216  | 50.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.42% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 417973   | 47.15 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 94.30%  |          |

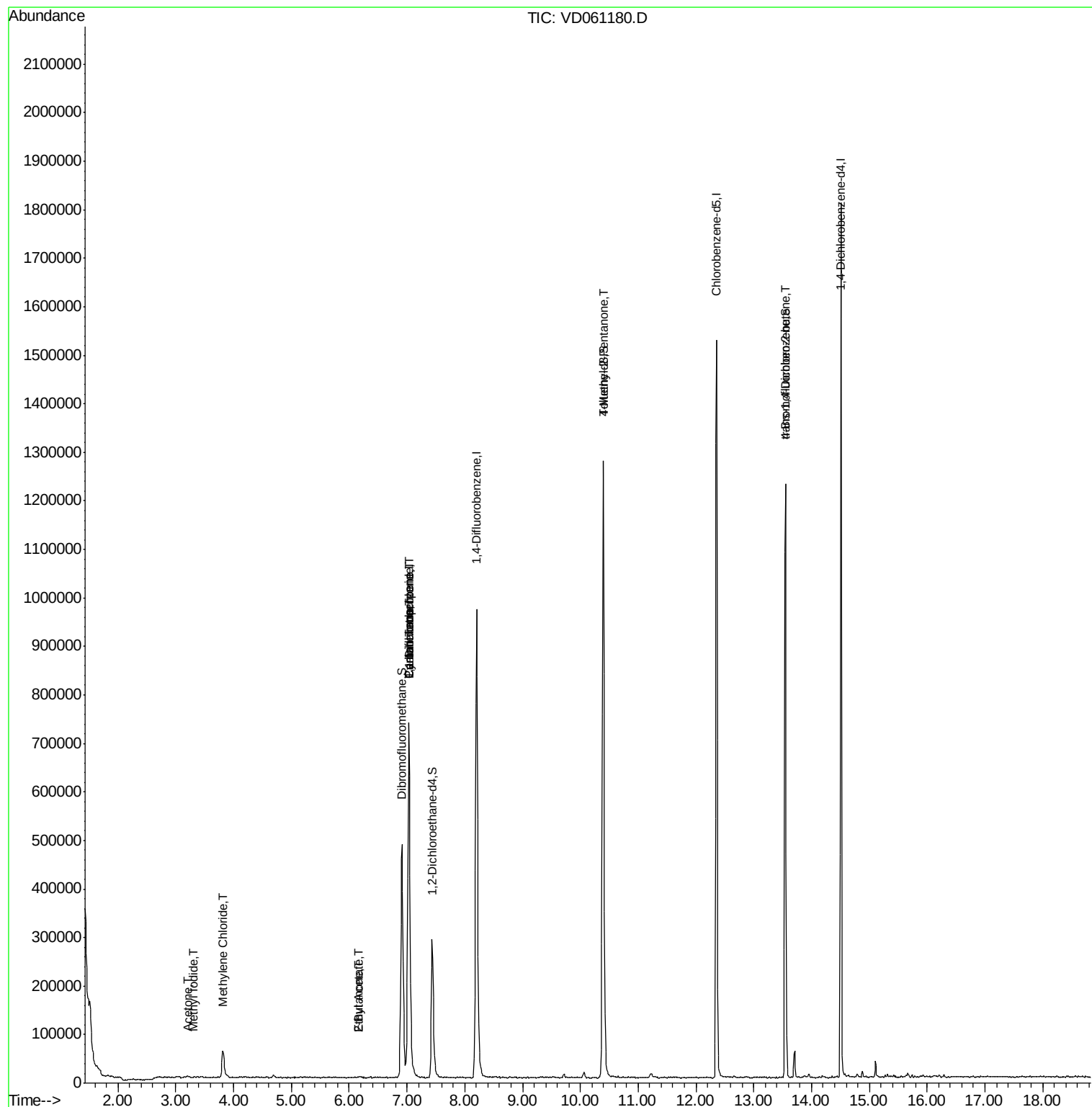
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.17  | 94   | 389      | Below Cal | #      | 8      |
| 10) Methyl Iodide              | 3.32  | 142  | 421      | 2.965     | ug/l # | 39     |
| 16) Acetone                    | 3.21  | 43   | 5081     | 2.813     | ug/l   | 90     |
| 20) Methylene Chloride         | 3.81  | 84   | 46522    | 1.087     | ug/l   | 91     |
| 25) 2-Butanone                 | 6.16  | 43   | 5760     | 2.811     | ug/l # | 55     |
| 31) Cyclohexane                | 7.03  | 56   | 13359    | 1.195     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.03  | 75   | 53798    | 5.091     | ug/l # | 46     |
| 37) Ethyl Acetate              | 6.16  | 43   | 5760     | 1.161     | ug/l # | 66     |
| 38) Carbon Tetrachloride       | 7.03  | 117  | 72286    | 6.210     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.39 | 43   | 5170     | 1.229     | ug/l # | 1      |
| 81) trans-1,4-Dichloro-2-buten | 13.54 | 75   | 154269   | 81.648    | ug/l # | 17     |

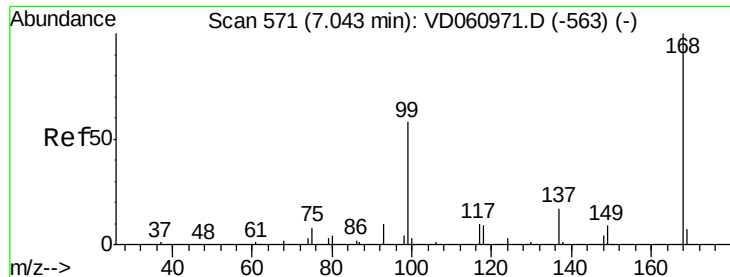
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_D\DATA\VD031919\  
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Sample : K1970-10RE  
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ALS Vial : 6 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
P-10-W.WALL-NORTH

Quant Time: Mar 19 13:57:51 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D030719S.M  
Quant Title : SW846 8260  
QLast Update : Fri Mar 08 02:35:39 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.01 min

Lab File: VD061180.D

Acq: 19 Mar 2019 12:59

Instrument :

MSVOA\_D

ClientSampleId :

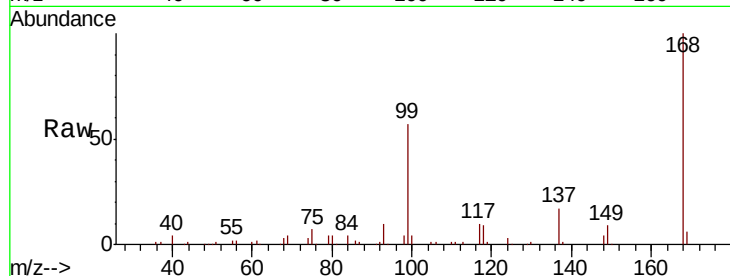
P-10-W.WALL-NORTH

Tgt Ion:168 Resp: 758711

Ion Ratio Lower Upper

168 100

99 56.9 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): V

7.03

250000

200000

150000

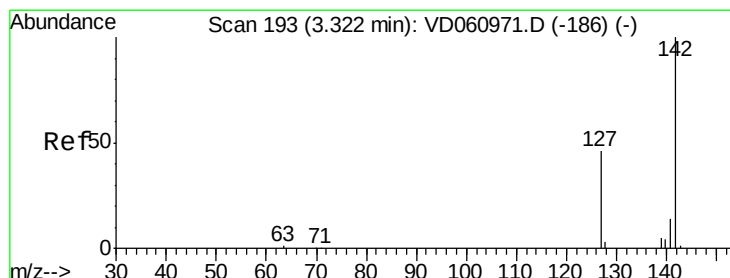
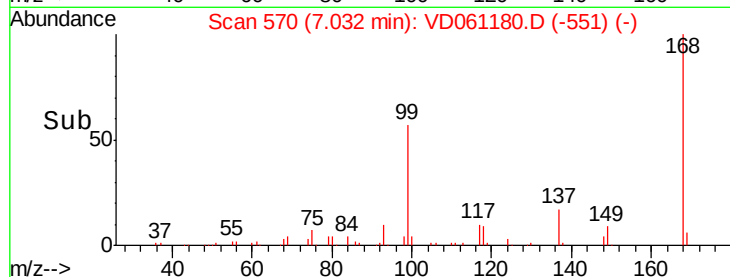
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#10

Methyl Iodide

Concen: 2.965 ug/l

RT: 3.32 min Scan# 193

Delta R.T. 0.00 min

Lab File: VD061180.D

Acq: 19 Mar 2019 12:59

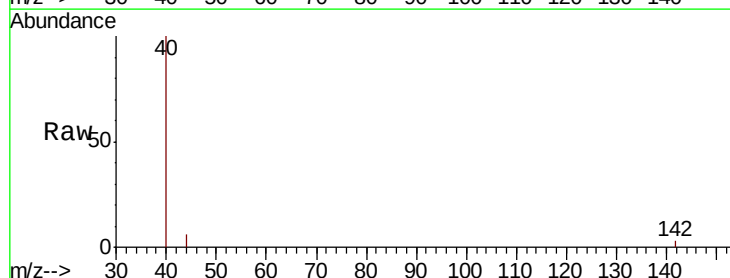
Tgt Ion:142 Resp: 421

Ion Ratio Lower Upper

142 100

127 0.0 36.8 55.2#

141 0.0 11.2 16.8#



Abundance Ion 141.85 (141.55 to 142.55): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.85 (140.55 to 141.55): V

3.32

400

300

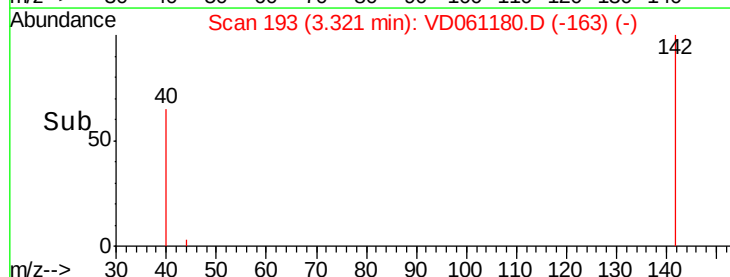
200

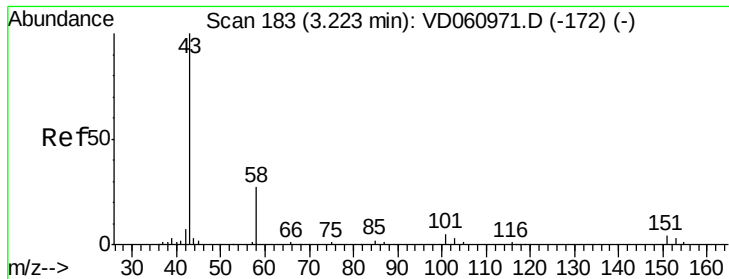
100

0

3.28 3.30 3.32 3.34

Time-->

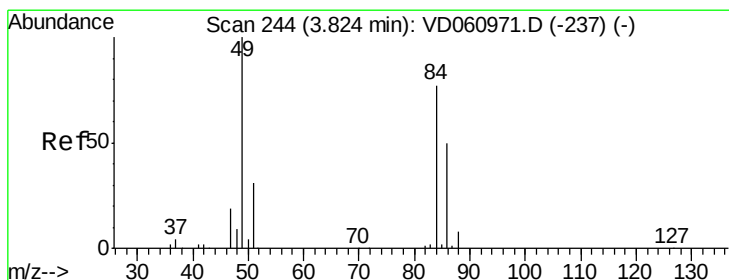
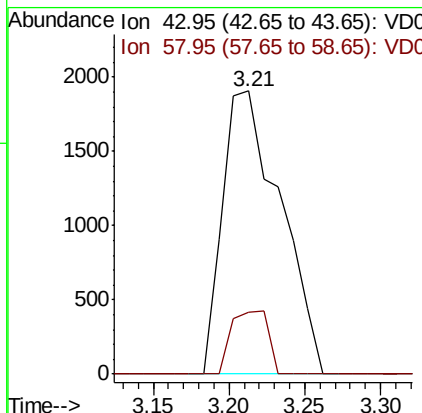
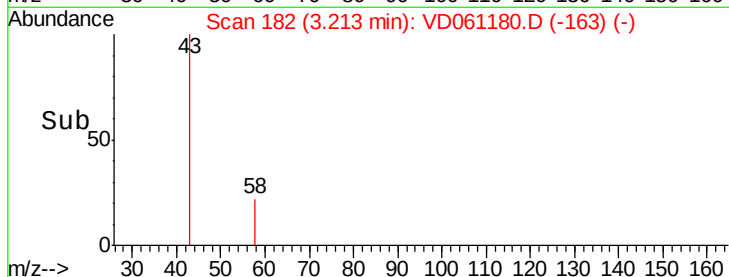
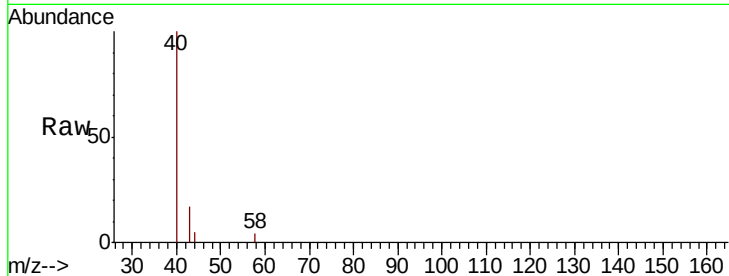




#16  
Acetone  
Concen: 2.813 ug/l  
RT: 3.21 min Scan# 182  
Delta R.T. -0.01 min  
Lab File: VD061180.D  
Acq: 19 Mar 2019 12:59

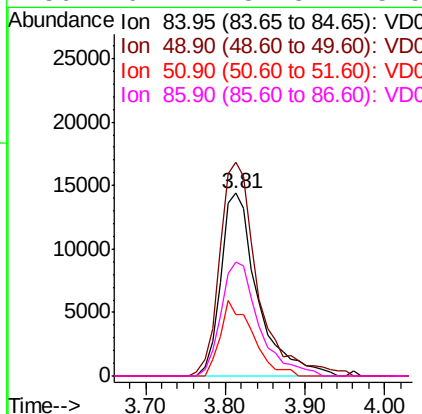
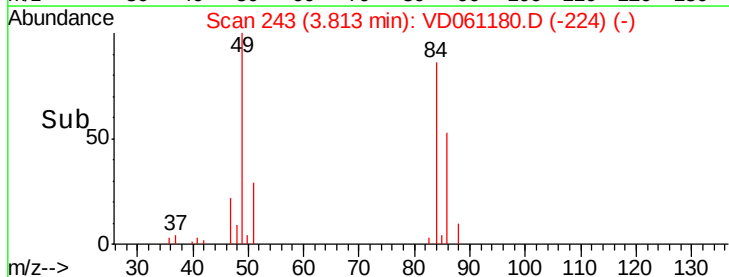
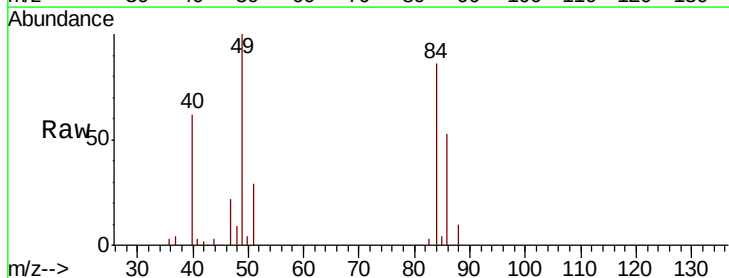
Instrument :  
MSVOA\_D  
ClientSampleId :  
P-10-W.WALL-NORTH

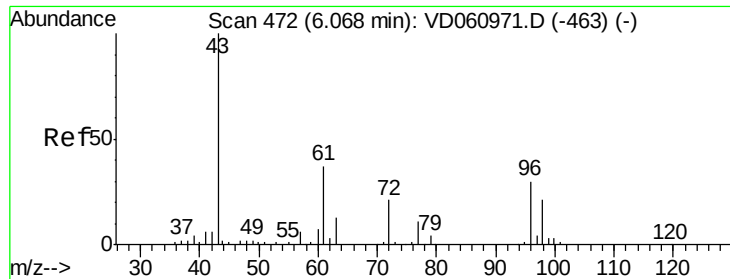
Tgt Ion: 43 Resp: 5081  
Ion Ratio Lower Upper  
43 100  
58 21.8 21.6 32.4



#20  
Methylene Chloride  
Concen: 1.087 ug/l  
RT: 3.81 min Scan# 243  
Delta R.T. -0.01 min  
Lab File: VD061180.D  
Acq: 19 Mar 2019 12:59

Tgt Ion: 84 Resp: 46522  
Ion Ratio Lower Upper  
84 100  
49 116.8 104.2 156.2  
51 33.8 32.3 48.5  
86 62.4 52.3 78.5





#25

2-Butanone

Concen: 2.811 ug/l

RT: 6.16 min Scan# 481

Delta R.T. 0.09 min

Lab File: VD061180.D

Acq: 19 Mar 2019 12:59

Instrument :

MSVOA\_D

ClientSampleId :

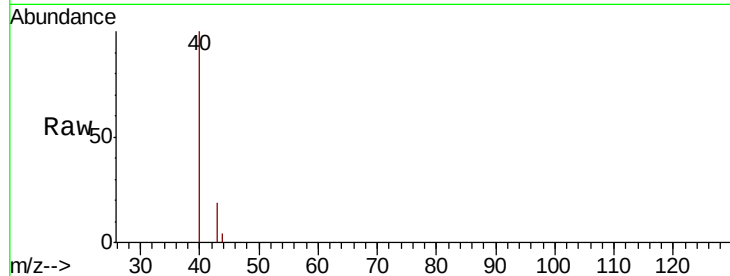
P-10-W.WALL-NORTH

Tgt Ion: 43 Resp: 5760

Ion Ratio Lower Upper

43 100

72 0.0 16.7 25.1#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 72.00 (71.70 to 72.70): VDC

6.16

2000

1500

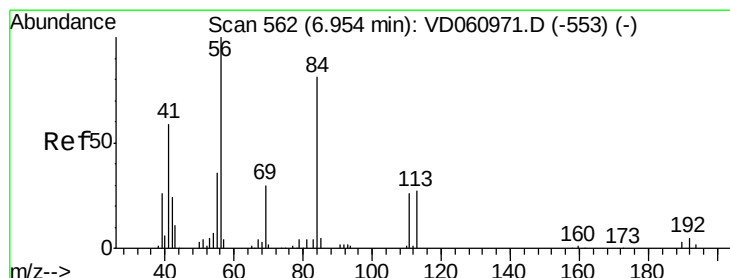
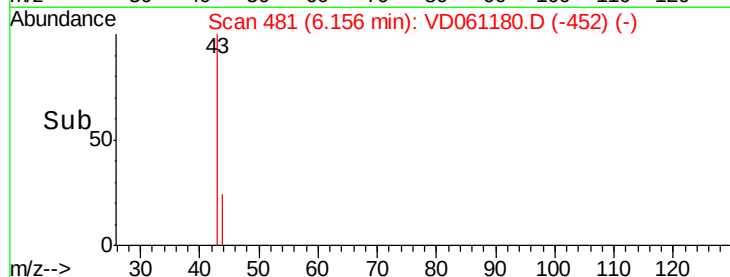
1000

500

0

6.10 6.15 6.20 6.25

Time-->



#31

Cyclohexane

Concen: 1.195 ug/l

RT: 7.03 min Scan# 570

Delta R.T. 0.08 min

Lab File: VD061180.D

Acq: 19 Mar 2019 12:59

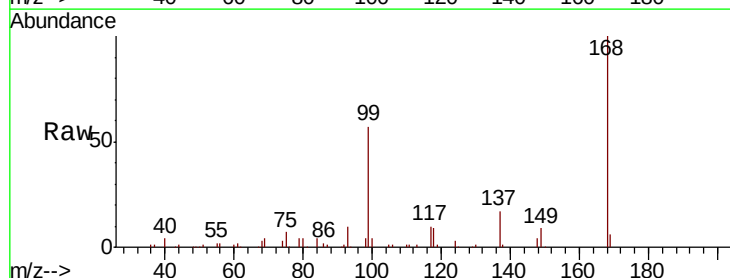
Tgt Ion: 56 Resp: 13359

Ion Ratio Lower Upper

56 100

69 259.1 24.0 36.0#

84 214.3 65.8 98.6#



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

15000

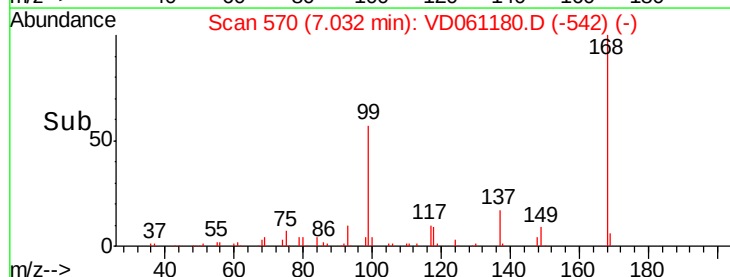
10000

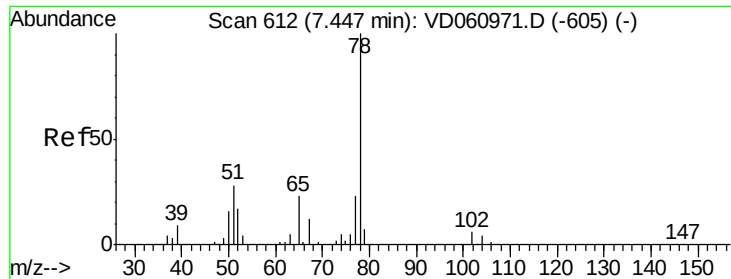
5000

0

6.95 7.00 7.05 7.10

Time-->

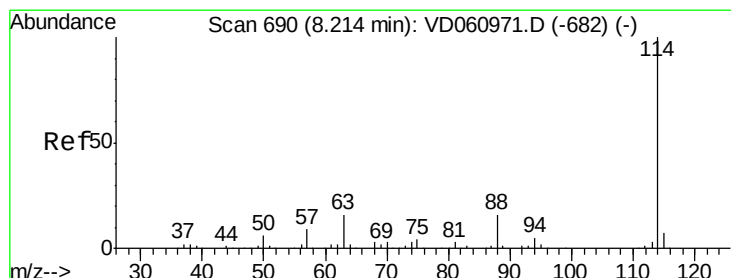
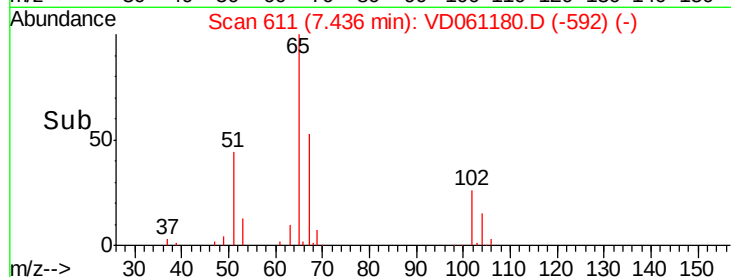
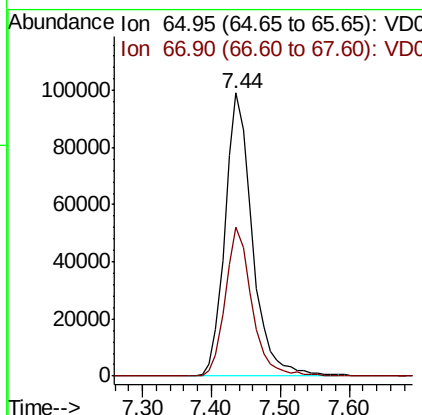
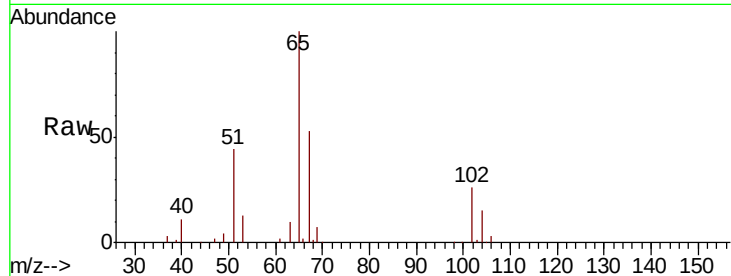




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 7.44 min Scan# 611  
 Delta R.T. -0.01 min  
 Lab File: VD061180.D  
 Acq: 19 Mar 2019 12:59

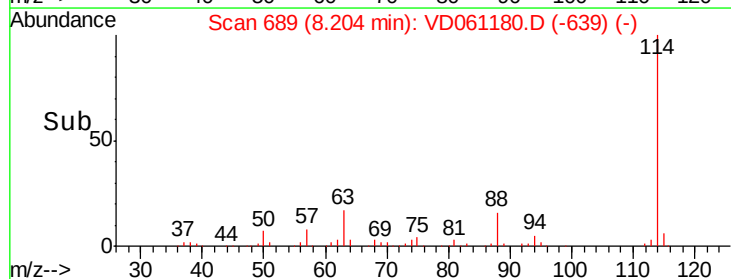
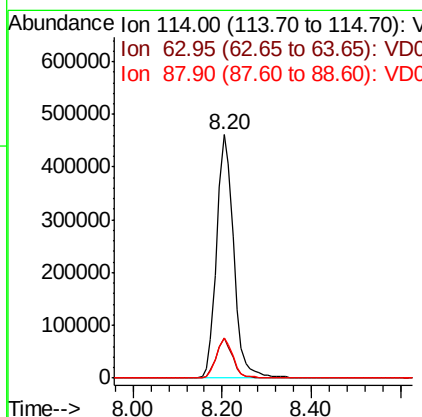
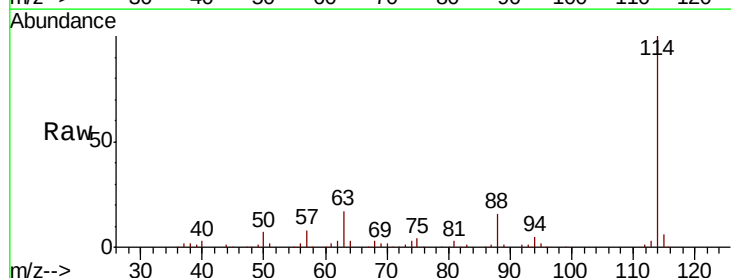
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 P-10-W.WALL-NORTH

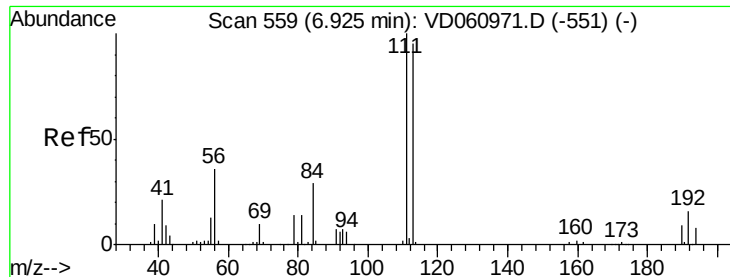
Tgt Ion: 65 Resp: 271753  
 Ion Ratio Lower Upper  
 65 100  
 67 52.8 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.20 min Scan# 689  
 Delta R.T. -0.01 min  
 Lab File: VD061180.D  
 Acq: 19 Mar 2019 12:59

Tgt Ion: 114 Resp: 1226015  
 Ion Ratio Lower Upper  
 114 100  
 63 16.5 0.0 31.4  
 88 16.4 0.0 33.0

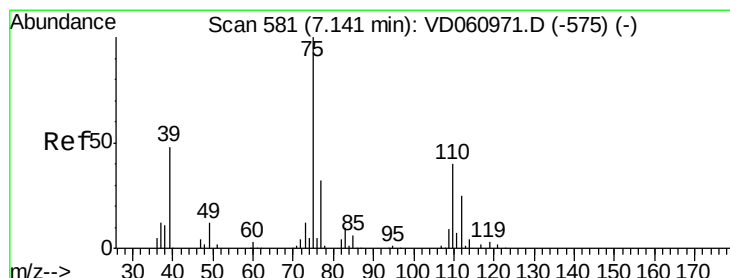
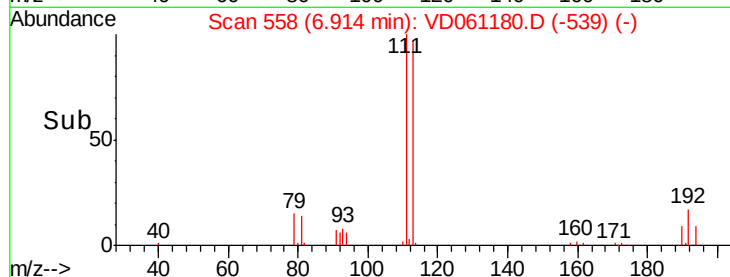
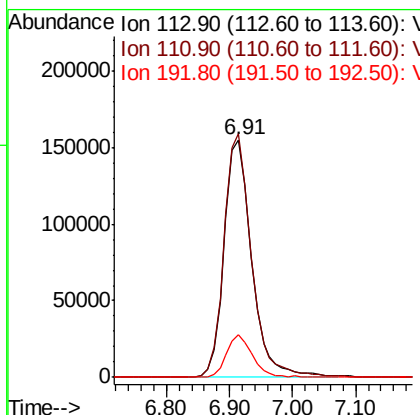
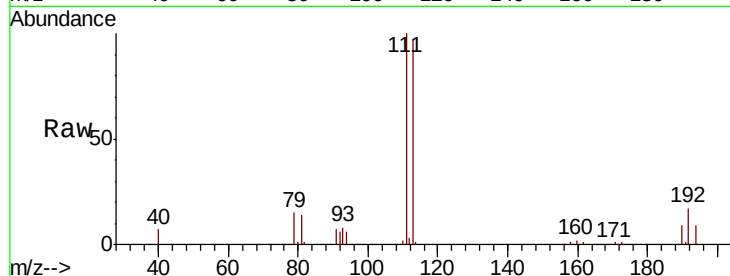




#35  
Dibromofluoromethane  
Concen: 50.000 ug/l  
RT: 6.91 min Scan# 558  
Delta R.T. -0.01 min  
Lab File: VD061180.D  
Acq: 19 Mar 2019 12:59

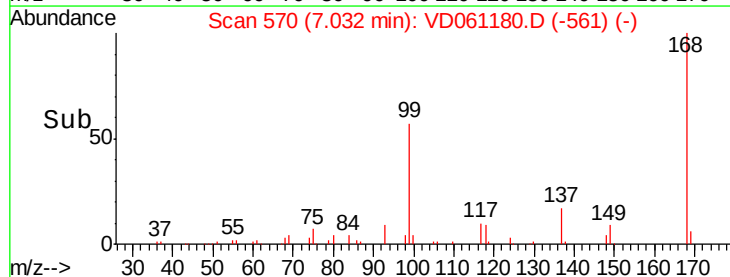
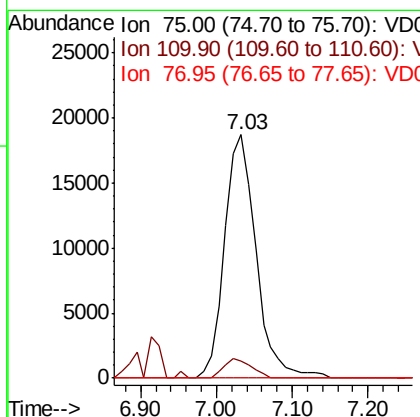
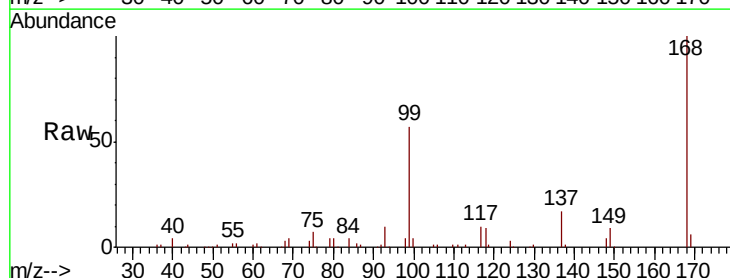
Instrument :  
MSVOA\_D  
ClientSampleId :  
P-10-W.WALL-NORTH

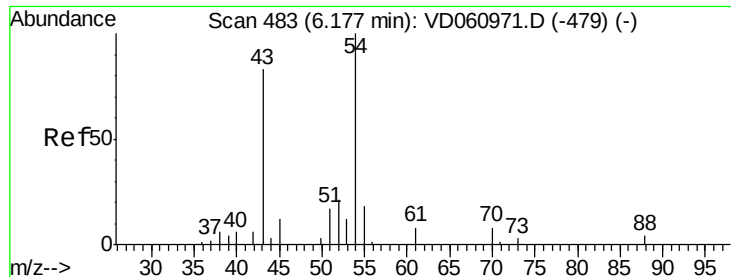
Tgt Ion:113 Resp: 472177  
Ion Ratio Lower Upper  
113 100  
111 102.6 84.2 126.4  
192 17.9 13.1 19.7



#36  
1,1-Dichloropropene  
Concen: 5.091 ug/l  
RT: 7.03 min Scan# 570  
Delta R.T. -0.11 min  
Lab File: VD061180.D  
Acq: 19 Mar 2019 12:59

Tgt Ion: 75 Resp: 53798  
Ion Ratio Lower Upper  
75 100  
110 7.1 19.7 59.1#  
77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.161 ug/l

RT: 6.16 min Scan# 481

Delta R.T. -0.02 min

Lab File: VD061180.D

Acq: 19 Mar 2019 12:59

Instrument :

MSVOA\_D

ClientSampleId :

P-10-W.WALL-NORTH

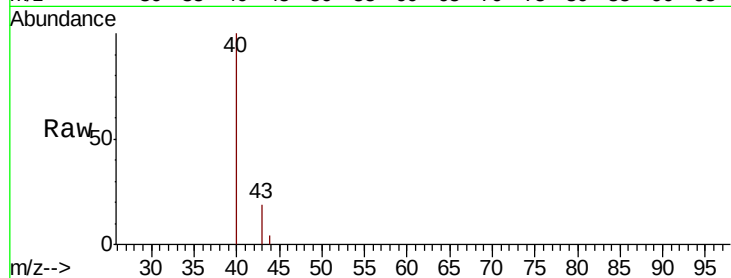
Tgt Ion: 43 Resp: 5760

Ion Ratio Lower Upper

43 100

61 0.0 13.7 20.5#

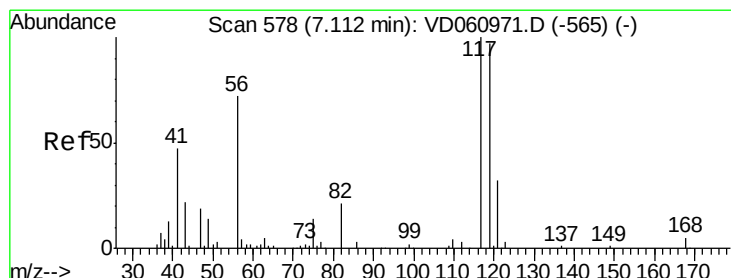
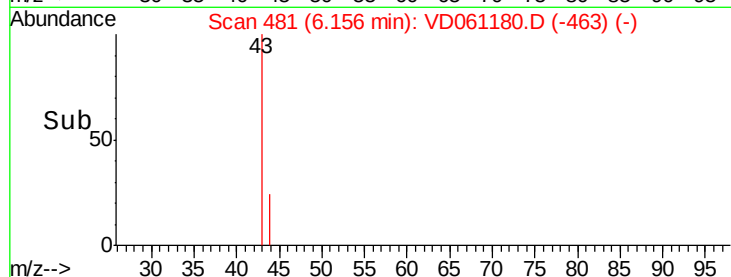
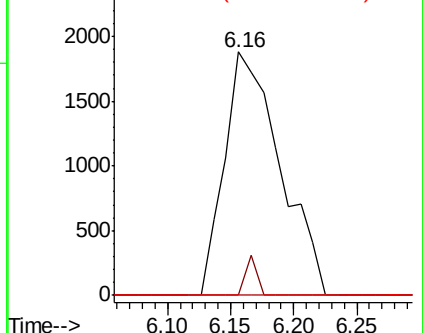
70 0.0 7.1 10.7#



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: 6.210 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.08 min

Lab File: VD061180.D

Acq: 19 Mar 2019 12:59

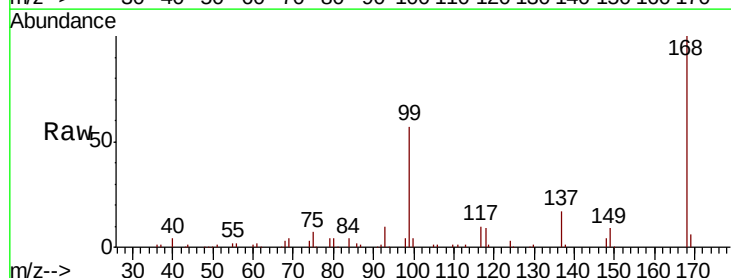
Tgt Ion: 117 Resp: 72286

Ion Ratio Lower Upper

117 100

119 5.9 77.8 116.8#

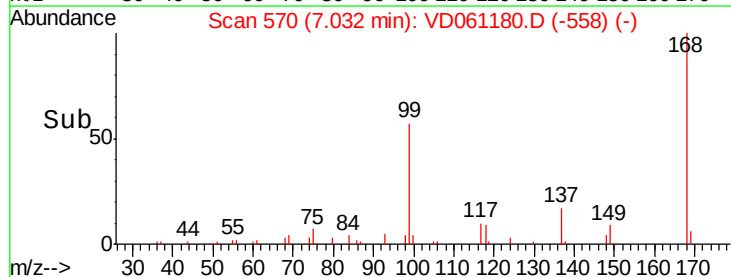
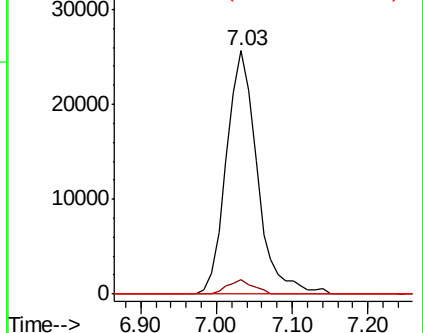
121 0.0 25.3 37.9#



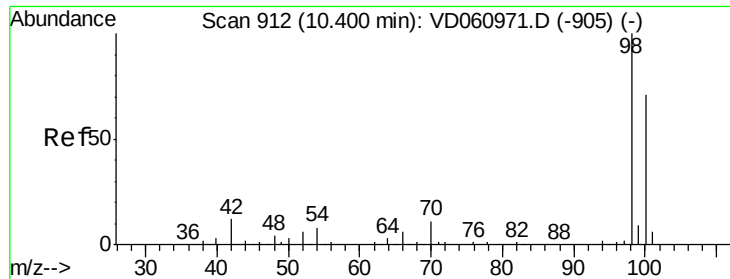
Abundance Ion 116.85 (116.55 to 117.55): V

Ion 118.85 (118.55 to 119.55): V

Ion 120.85 (120.55 to 121.55): V



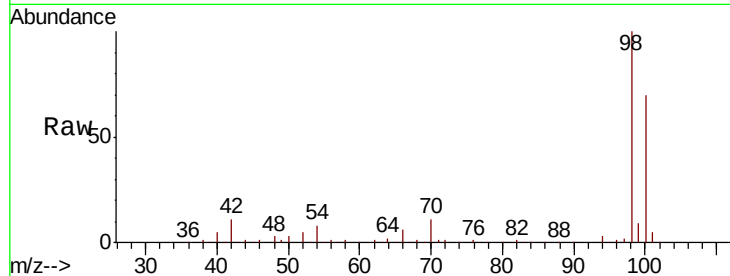




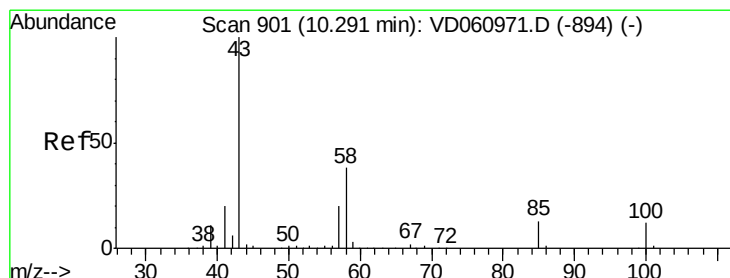
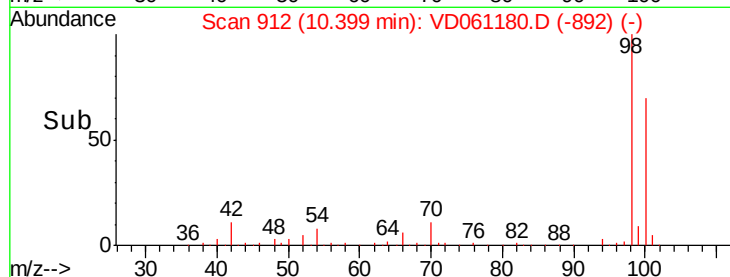
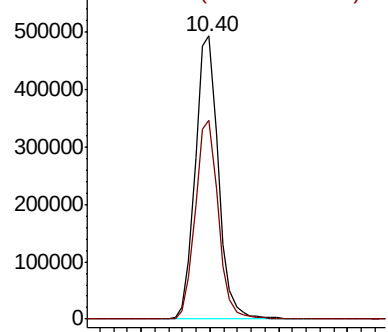
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.40 min Scan# 912  
Delta R.T. -0.00 min  
Lab File: VD061180.D  
Acq: 19 Mar 2019 12:59

Instrument :  
MSVOA\_D  
ClientSampleId :  
P-10-W.WALL-NORTH

Tgt Ion: 98 Resp: 1147216  
Ion Ratio Lower Upper  
98 100  
100 70.2 57.4 86.2

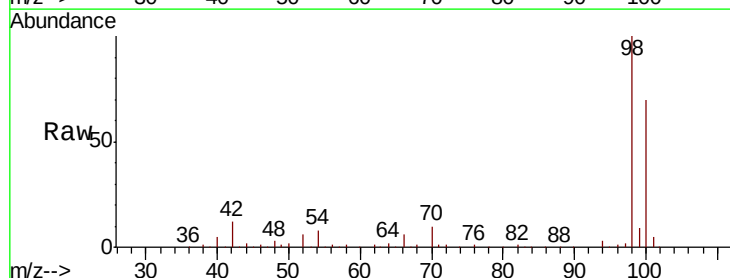


Abundance Ion 98.05 (97.75 to 98.75): VD060971.D (-905) (-)  
Ion 100.05 (99.75 to 100.75): VD060971.D (-905) (-)

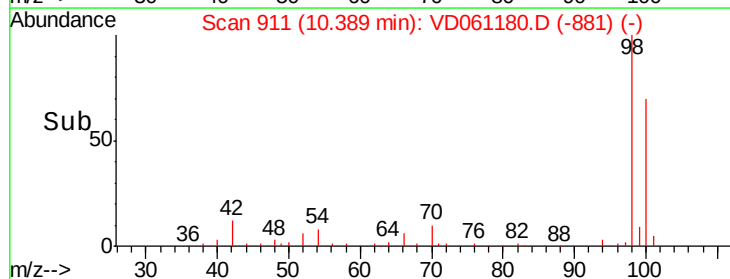
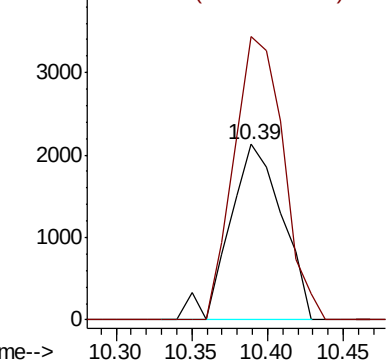


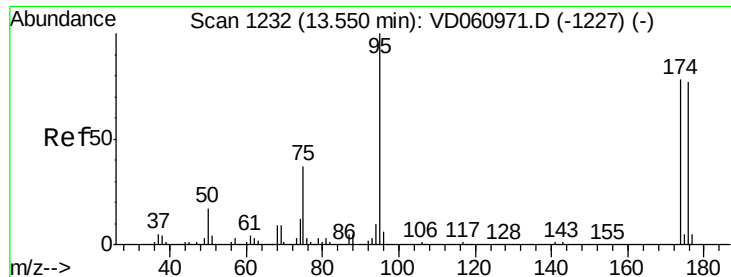
#51  
4-Methyl-2-Pentanone  
Concen: 1.229 ug/l  
RT: 10.39 min Scan# 911  
Delta R.T. 0.10 min  
Lab File: VD061180.D  
Acq: 19 Mar 2019 12:59

Tgt Ion: 43 Resp: 5170  
Ion Ratio Lower Upper  
43 100  
58 161.3 30.2 45.2#



Abundance Ion 42.95 (42.65 to 43.65): VD060971.D (-894) (-)  
Ion 57.95 (57.65 to 58.65): VD060971.D (-894) (-)





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. -0.00 min

Lab File: VD061180.D

Acq: 19 Mar 2019 12:59

Instrument :

MSVOA\_D

ClientSampleId :

P-10-W.WALL-NORTH

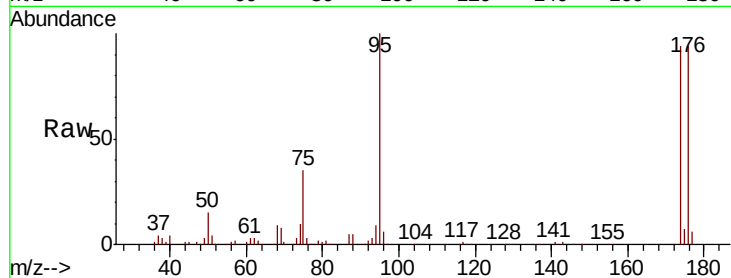
Tgt Ion: 95 Resp: 417973

Ion Ratio Lower Upper

95 100

174 93.9 0.0 155.6

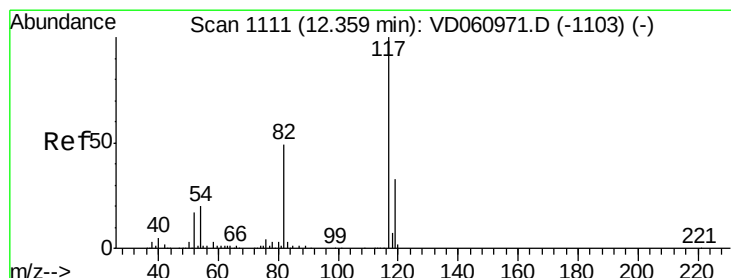
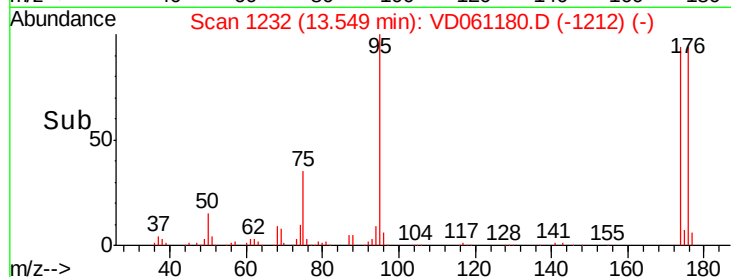
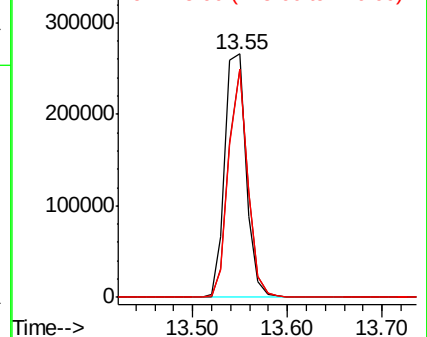
176 93.7 0.0 153.8



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: 12.36 min Scan# 1111

Delta R.T. -0.00 min

Lab File: VD061180.D

Acq: 19 Mar 2019 12:59

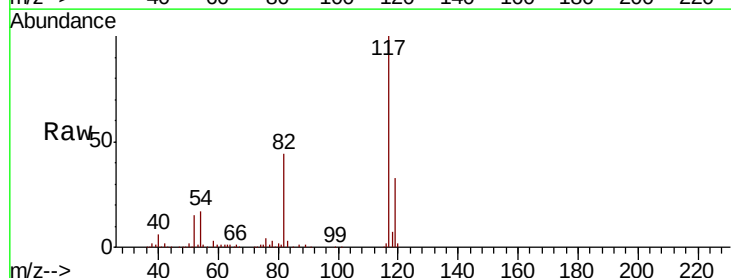
Tgt Ion: 117 Resp: 984624

Ion Ratio Lower Upper

117 100

82 44.4 38.9 58.3

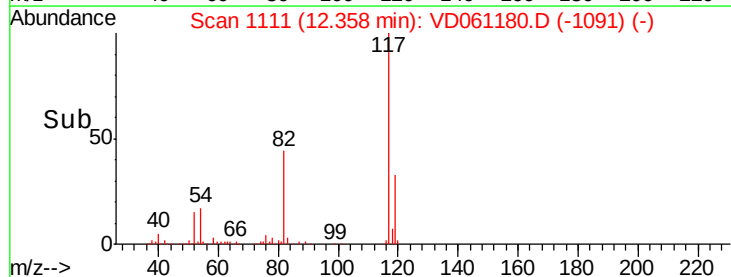
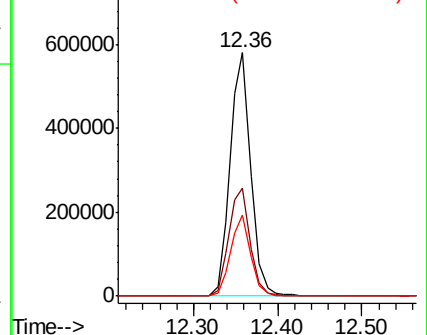
119 33.1 26.6 39.8

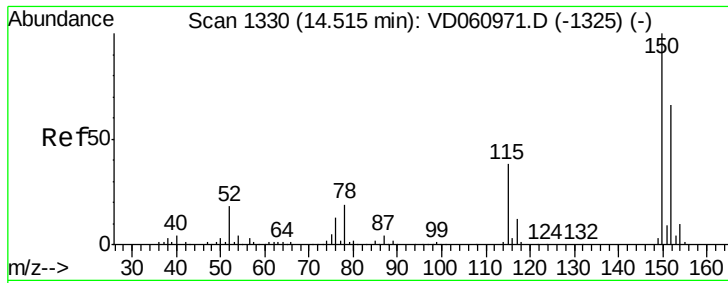


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.51 min Scan# 1330

Delta R.T. -0.00 min

Lab File: VD061180.D

Acq: 19 Mar 2019 12:59

Instrument :

MSVOA\_D

ClientSampleId :

P-10-W.WALL-NORTH

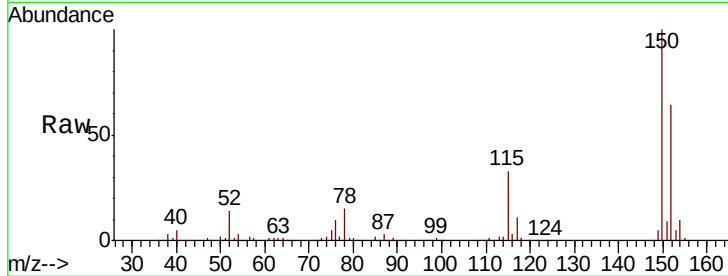
Tgt Ion: 152 Resp: 445463

Ion Ratio Lower Upper

152 100

115 51.6 28.6 85.9

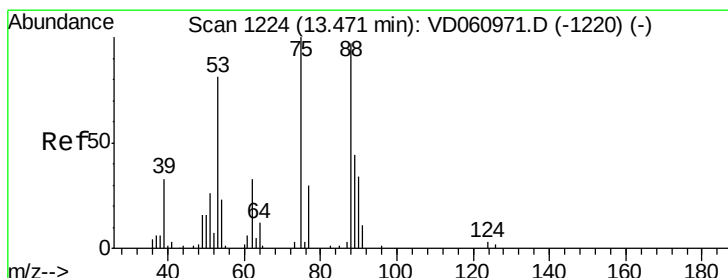
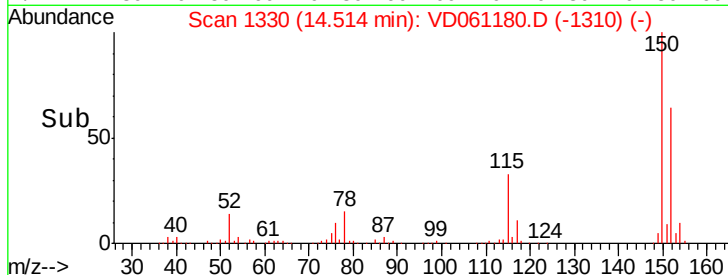
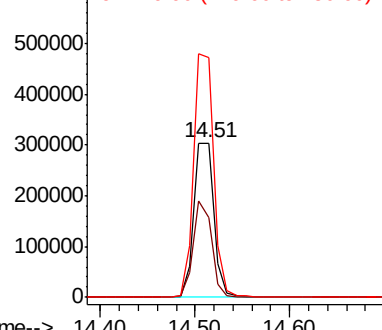
150 155.4 0.0 310.6



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: 81.648 ug/l

RT: 13.54 min Scan# 1231

Delta R.T. 0.07 min

Lab File: VD061180.D

Acq: 19 Mar 2019 12:59

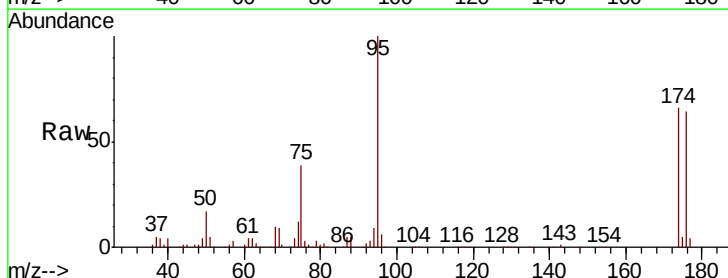
Tgt Ion: 75 Resp: 154269

Ion Ratio Lower Upper

75 100

53 0.0 64.4 96.6#

89 0.0 34.8 52.2#



Abundance Ion 75.00 (74.70 to 75.70): V

Ion 53.00 (52.70 to 53.70): V

Ion 89.00 (88.70 to 89.70): V

