

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_D\DATA\VD102618\  
 Data File : VD060223.D  
 Acq On : 26 Oct 2018 18:28  
 Operator : JC/SY  
 Sample : J5697-01  
 Misc : 5.91g/5ml/MSVOA\_D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

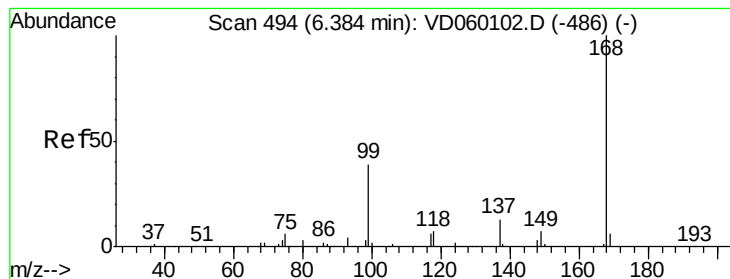
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CHRT-58-66-98-92

Quant Time: Oct 26 23:43:51 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D100118S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Oct 02 06:56:35 2018  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 6.40  | 168  | 1494715  | 50.00   | ug/l    | 0.02     |
| 34) 1,4-Difluorobenzene        | 7.45  | 114  | 2068062  | 50.00   | ug/l    | 0.03     |
| 63) Chlorobenzene-d5           | 11.28 | 117  | 1453405  | 50.00   | ug/l    | 0.02     |
| 72) 1,4-Dichlorobenzene-d4     | 13.37 | 152  | 472624   | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 6.79  | 65   | 610398   | 53.87   | ug/l    | 0.03     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 107.74% |          |
| 35) Dibromofluoromethane       | 6.32  | 113  | 802272   | 51.09   | ug/l    | 0.03     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 102.18% |          |
| 50) Toluene-d8                 | 9.45  | 98   | 2042575  | 45.61   | ug/l    | 0.02     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 91.22%  |          |
| 62) 4-Bromofluorobenzene       | 12.43 | 95   | 571709   | 34.10   | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =       | 68.20%  |          |
| Target Compounds               |       |      |          |         |         |          |
| 16) Acetone                    | 3.16  | 43   | 23357    | 11.361  | ug/l    | 95       |
| 31) Cyclohexane                | 6.40  | 56   | 30039    | 1.224   | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 6.40  | 75   | 111664   | 5.650   | ug/l #  | 46       |
| 38) Carbon Tetrachloride       | 6.40  | 117  | 118183   | 6.589   | ug/l #  | 15       |
| 51) 4-Methyl-2-Pentanone       | 9.45  | 43   | 11305    | 1.039   | ug/l #  | 1        |
| 52) Toluene                    | 9.55  | 92   | 96001    | 2.883   | ug/l    | 100      |
| 76) 1,2,3-Trichloropropane     | 12.43 | 75   | 229673   | 33.744  | ug/l #  | 45       |
| 81) trans-1,4-Dichloro-2-buten | 12.43 | 75   | 237137   | 123.993 | ug/l #  | 13       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.40 min Scan# 496

Delta R.T. 0.02 min

Lab File: VD060223.D

Acq: 26 Oct 2018 18:28

Instrument :

MSVOA\_D

ClientSampleId :

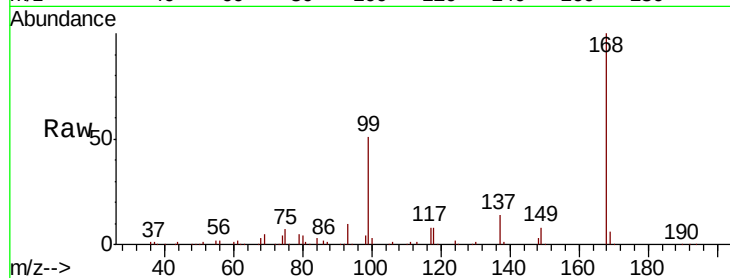
CHRT-58-66-98-92

Tgt Ion:168 Resp: 1494715

Ion Ratio Lower Upper

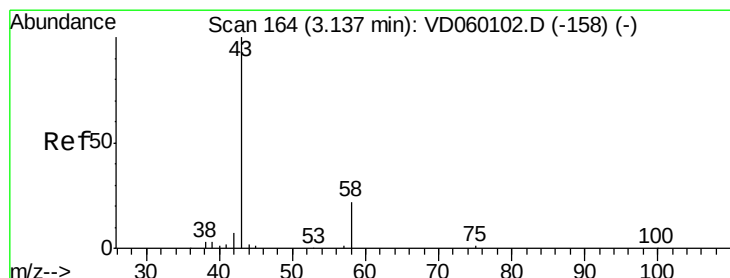
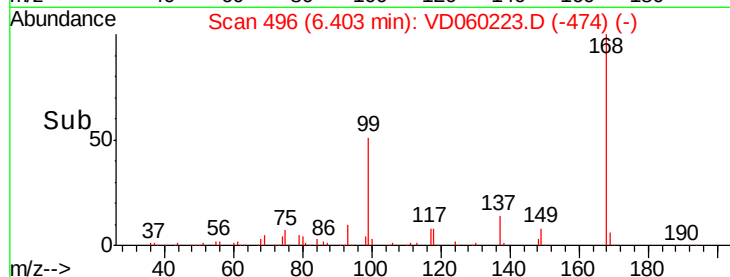
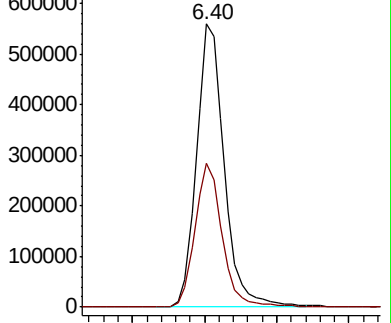
168 100

99 50.8 35.4 53.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 11.361 ug/l

RT: 3.16 min Scan# 166

Delta R.T. 0.02 min

Lab File: VD060223.D

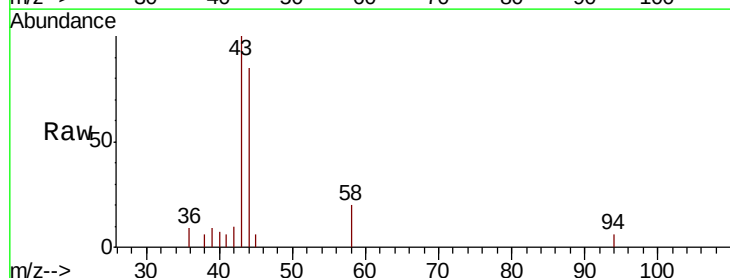
Acq: 26 Oct 2018 18:28

Tgt Ion: 43 Resp: 23357

Ion Ratio Lower Upper

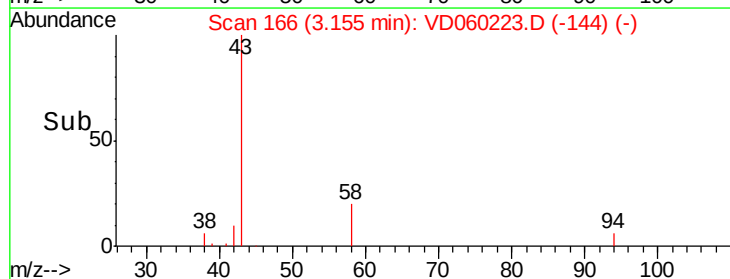
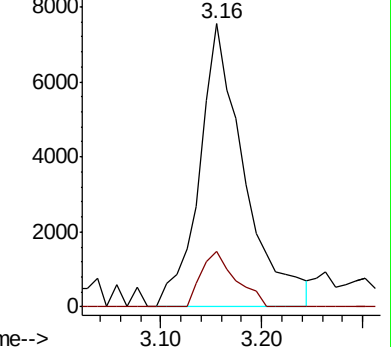
43 100

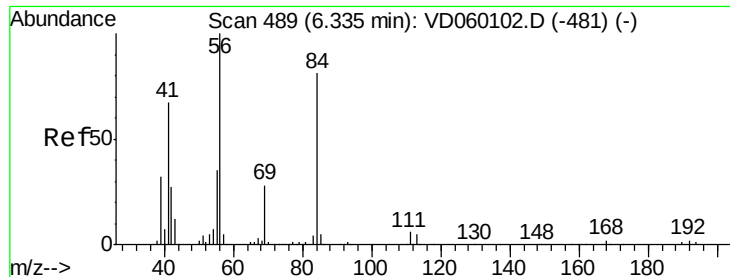
58 19.5 17.7 26.5



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#31

Cyclohexane

Concen: 1.224 ug/l

RT: 6.40 min Scan# 496

Delta R.T. 0.07 min

Lab File: VD060223.D

Acq: 26 Oct 2018 18:28

Instrument :

MSVOA\_D

ClientSampleId :

CHRT-58-66-98-92

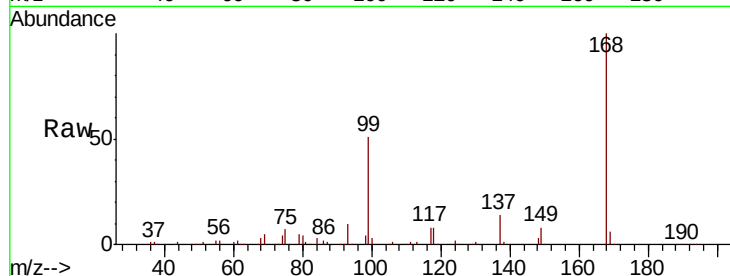
Tgt Ion: 56 Resp: 30039

Ion Ratio Lower Upper

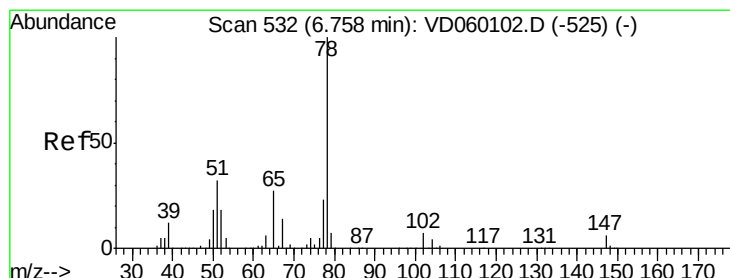
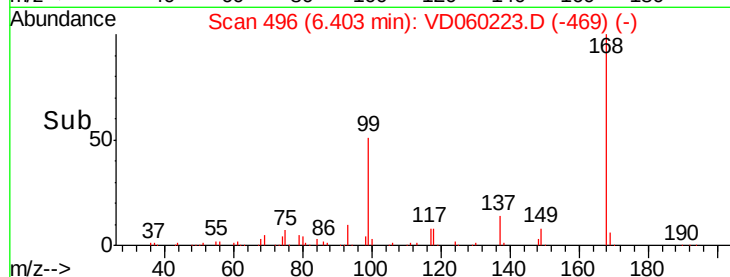
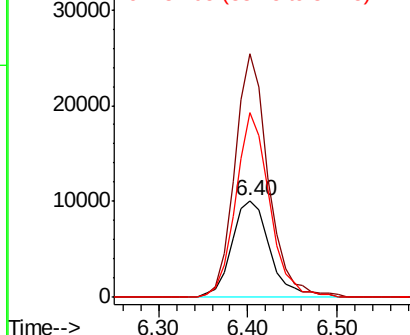
56 100

69 252.3 22.8 34.2#

84 191.2 64.9 97.3#



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: N.D. ug/l

RT: 6.79 min Scan# 535

Delta R.T. 0.03 min

Lab File: VD060223.D

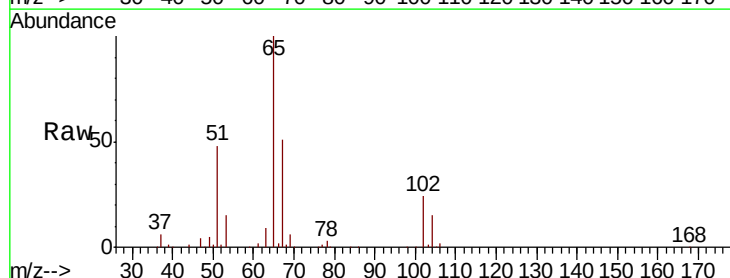
Acq: 26 Oct 2018 18:28

Tgt Ion: 65 Resp: 610398

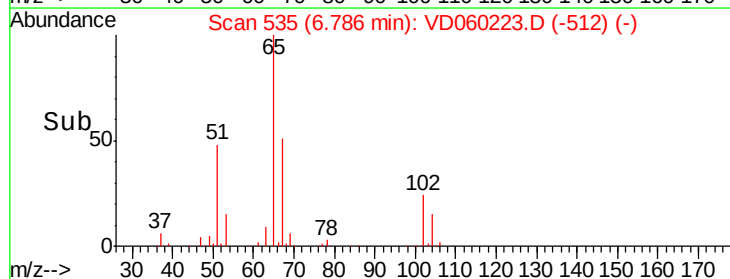
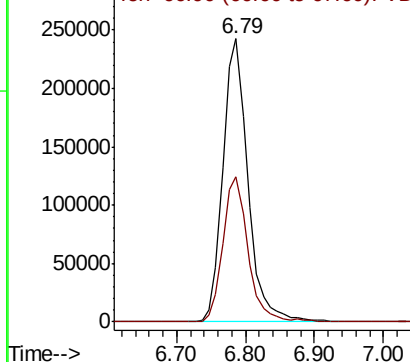
Ion Ratio Lower Upper

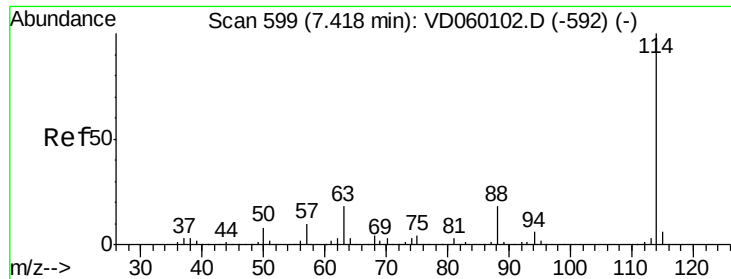
65 100

67 51.2 0.0 106.2



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

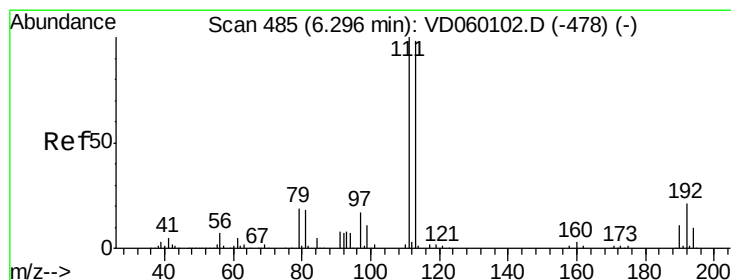
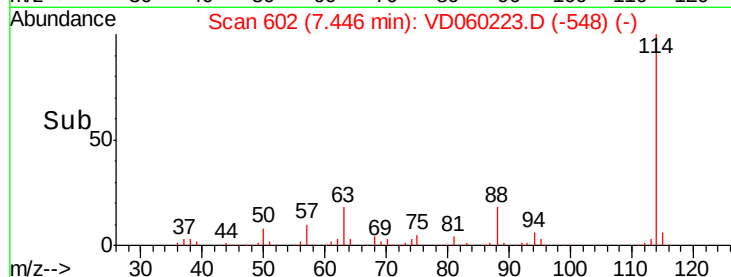
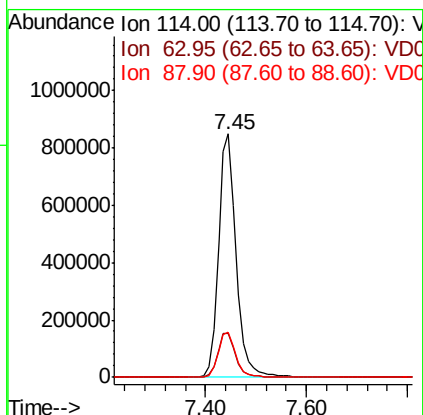
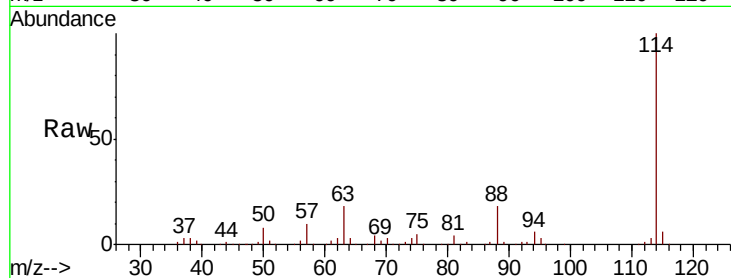




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.45 min Scan# 602  
 Delta R.T. 0.03 min  
 Lab File: VD060223.D  
 Acq: 26 Oct 2018 18:28

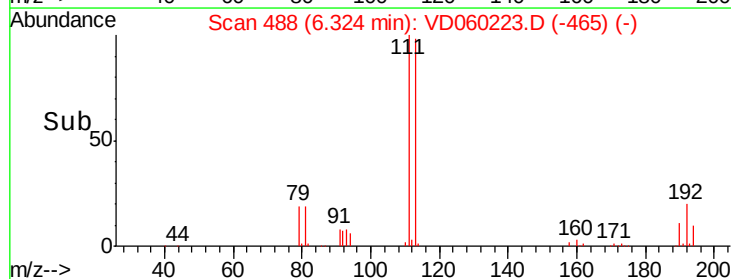
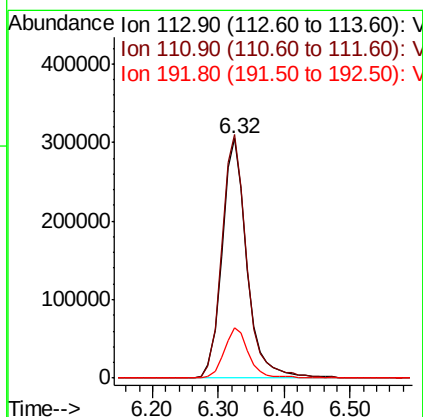
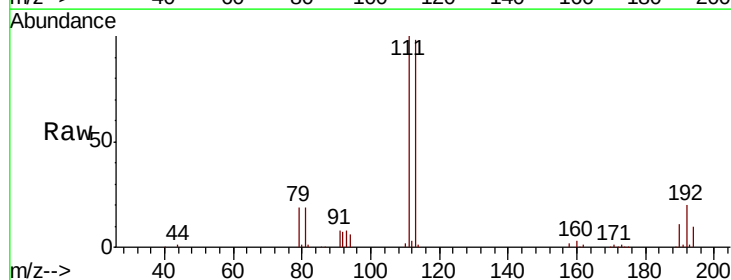
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CHRT-58-66-98-92

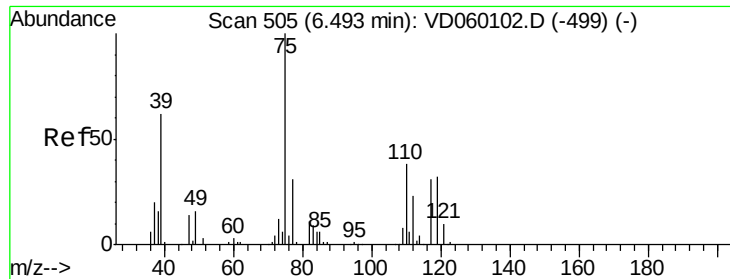
Tgt Ion:114 Resp: 2068062  
 Ion Ratio Lower Upper  
 114 100  
 63 17.8 0.0 36.0  
 88 18.5 0.0 36.2



#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.32 min Scan# 488  
 Delta R.T. 0.03 min  
 Lab File: VD060223.D  
 Acq: 26 Oct 2018 18:28

Tgt Ion:113 Resp: 802272  
 Ion Ratio Lower Upper  
 113 100  
 111 101.6 81.5 122.3  
 192 20.8 17.4 26.0

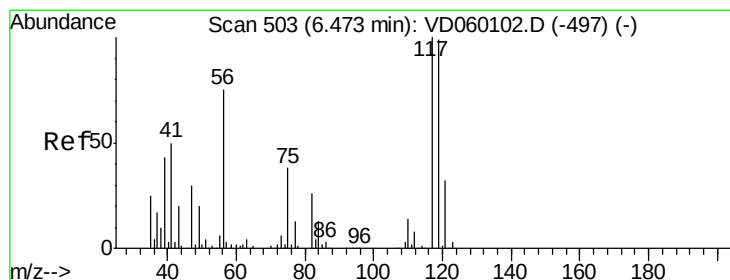
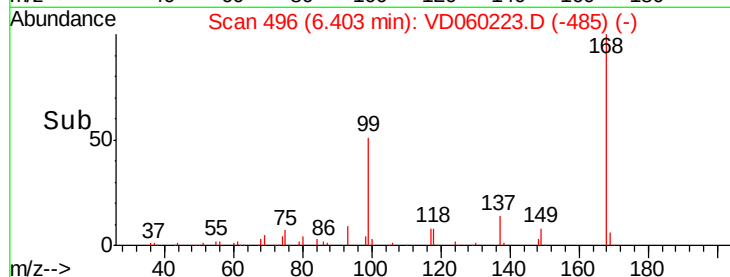
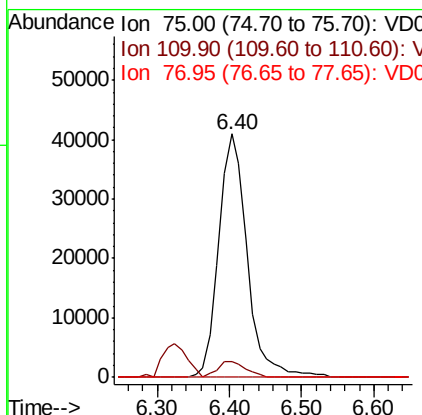
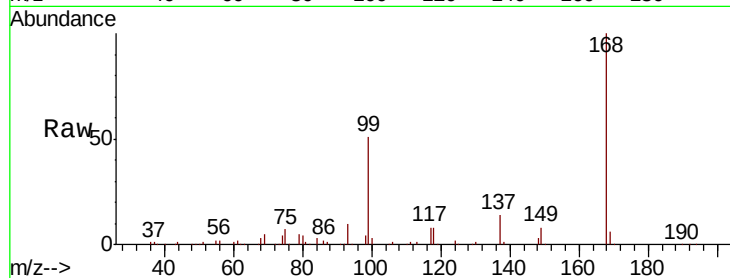




#36  
 1,1-Dichloropropene  
 Concen: 5.650 ug/l  
 RT: 6.40 min Scan# 496  
 Delta R.T. -0.09 min  
 Lab File: VD060223.D  
 Acq: 26 Oct 2018 18:28

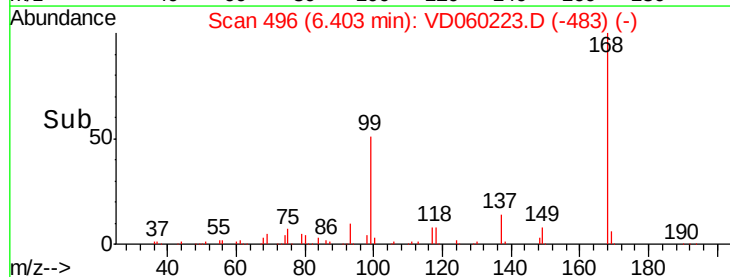
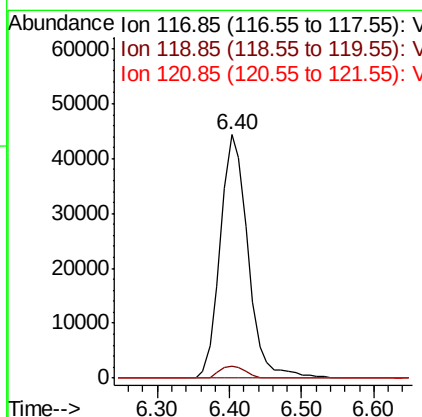
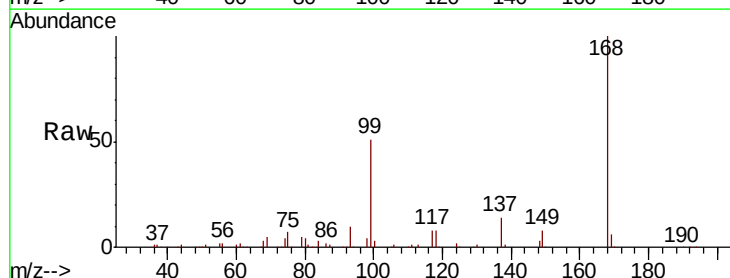
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CHRT-58-66-98-92

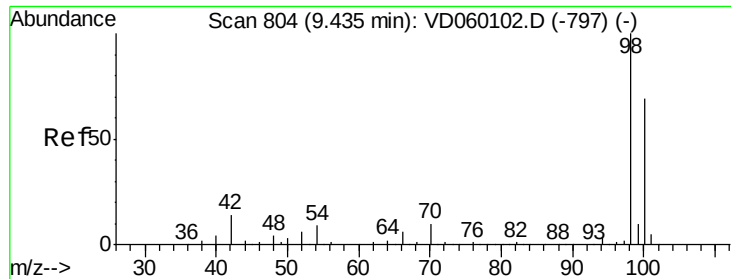
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 6.5   | 19.0  | 57.0# |
| 77      | 0.0   | 24.9  | 37.3# |



#38  
 Carbon Tetrachloride  
 Concen: 6.589 ug/l  
 RT: 6.40 min Scan# 496  
 Delta R.T. -0.07 min  
 Lab File: VD060223.D  
 Acq: 26 Oct 2018 18:28

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.7   | 77.8  | 116.6# |
| 121     | 0.0   | 24.8  | 37.2#  |

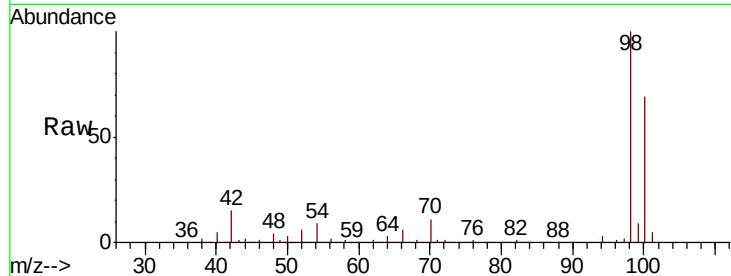




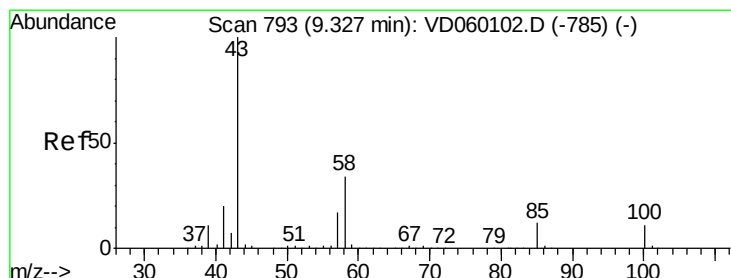
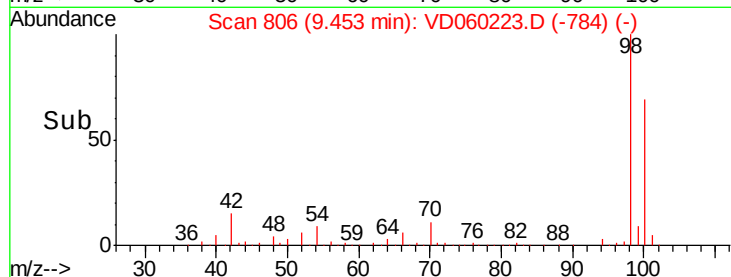
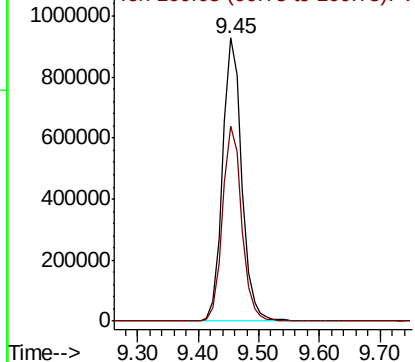
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 9.45 min Scan# 806  
Delta R.T. 0.02 min  
Lab File: VD060223.D  
Acq: 26 Oct 2018 18:28

Instrument :  
MSVOA\_D  
ClientSampleId :  
CHRT-58-66-98-92

Tgt Ion: 98 Resp: 2042575  
Ion Ratio Lower Upper  
98 100  
100 69.0 55.4 83.0

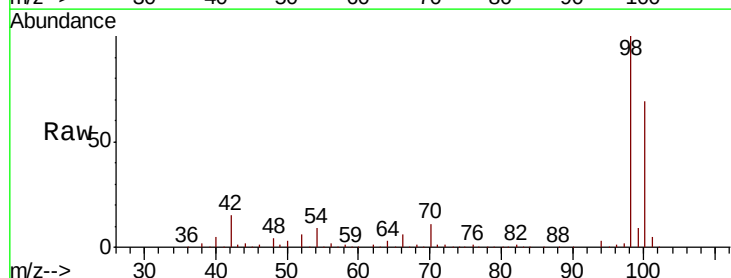


Abundance Ion 98.05 (97.75 to 98.75): VDC  
Ion 100.05 (99.75 to 100.75): VDC

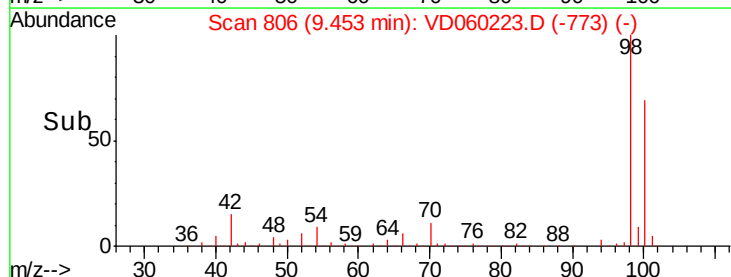
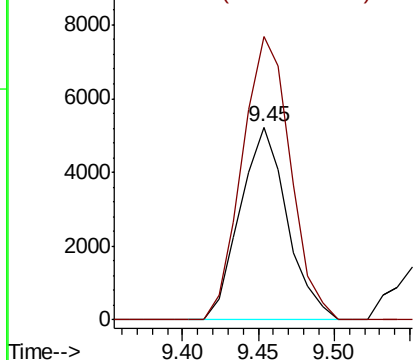


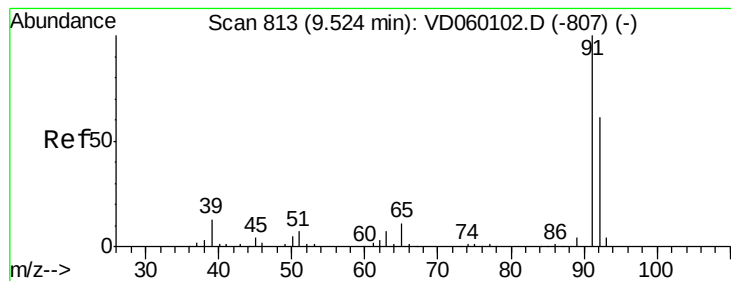
#51  
4-Methyl-2-Pentanone  
Concen: 1.039 ug/l  
RT: 9.45 min Scan# 806  
Delta R.T. 0.13 min  
Lab File: VD060223.D  
Acq: 26 Oct 2018 18:28

Tgt Ion: 43 Resp: 11305  
Ion Ratio Lower Upper  
43 100  
58 147.0 27.2 40.8#



Abundance Ion 42.95 (42.65 to 43.65): VDC  
Ion 57.95 (57.65 to 58.65): VDC





#52

Toluene

Concen: 2.883 ug/l

RT: 9.55 min Scan# 816

Delta R.T. 0.03 min

Lab File: VD060223.D

Acq: 26 Oct 2018 18:28

Instrument :

MSVOA\_D

ClientSampleId :

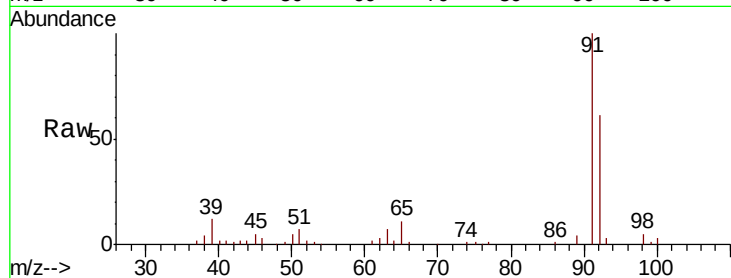
CHRT-58-66-98-92

Tgt Ion: 92 Resp: 96001

Ion Ratio Lower Upper

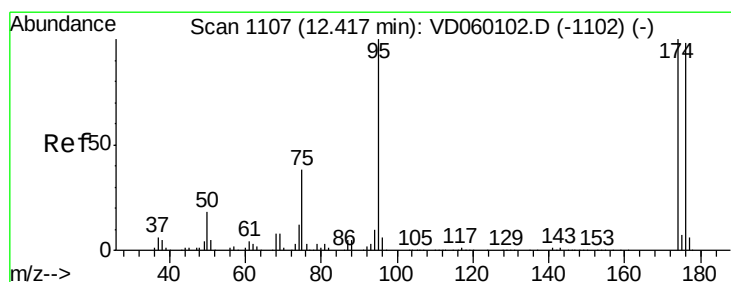
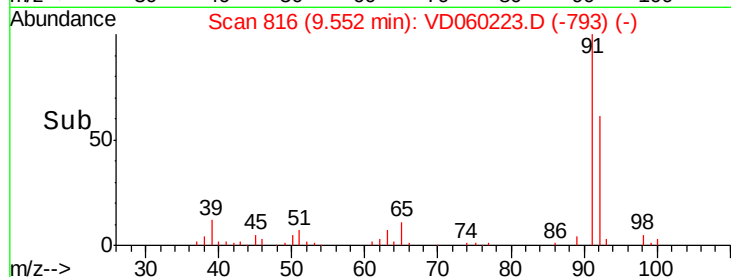
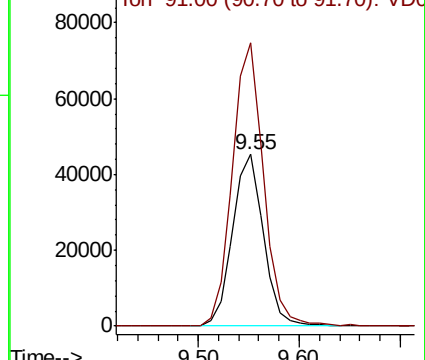
92 100

91 165.1 131.9 197.9



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.01 min

Lab File: VD060223.D

Acq: 26 Oct 2018 18:28

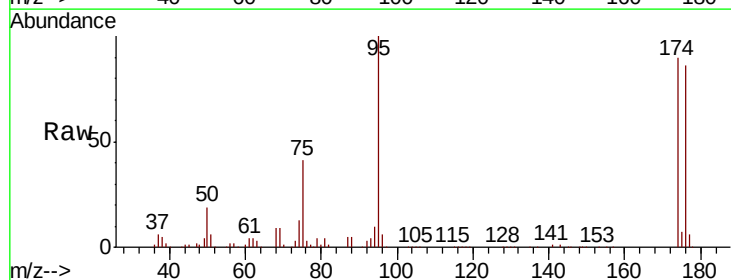
Tgt Ion: 95 Resp: 571709

Ion Ratio Lower Upper

95 100

174 89.7 0.0 200.2

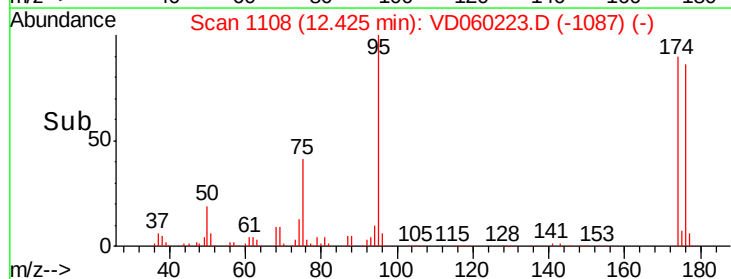
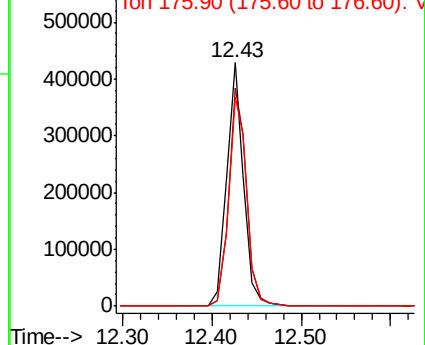
176 86.1 0.0 195.6



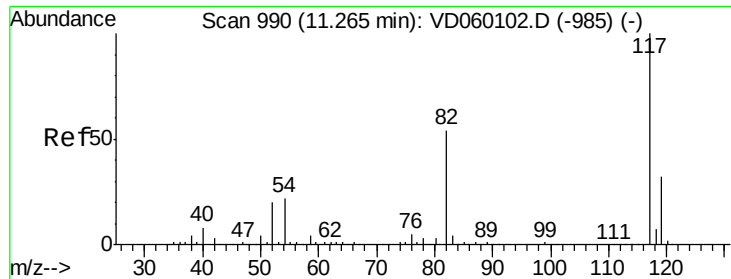
Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V



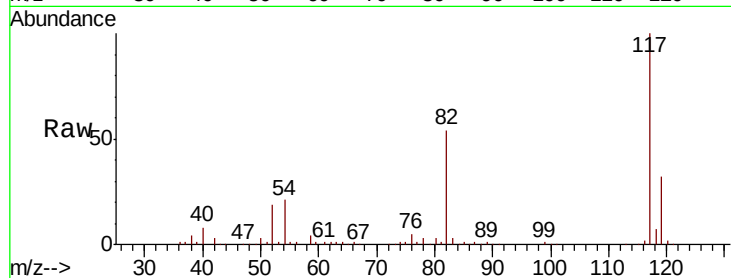




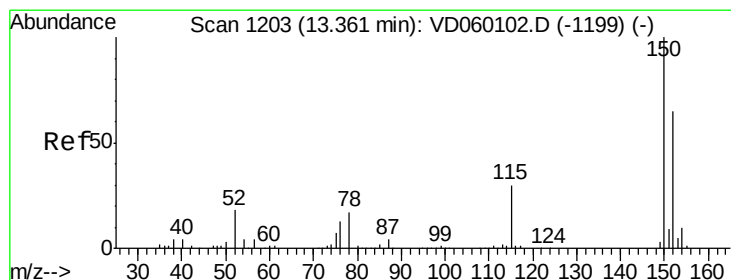
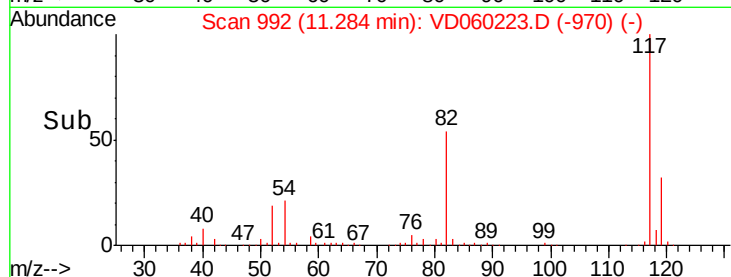
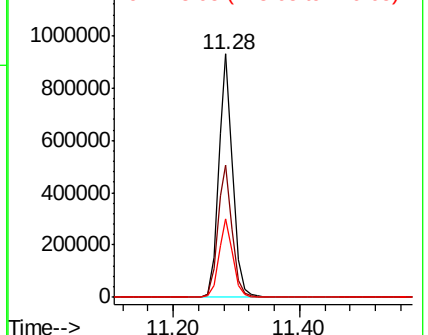
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.28 min Scan# 992  
Delta R.T. 0.02 min  
Lab File: VD060223.D  
Acq: 26 Oct 2018 18:28

Instrument :  
MSVOA\_D  
ClientSampleId :  
CHRT-58-66-98-92

Tgt Ion:117 Resp: 1453405  
Ion Ratio Lower Upper  
117 100  
82 54.3 43.4 65.2  
119 32.4 26.0 39.0

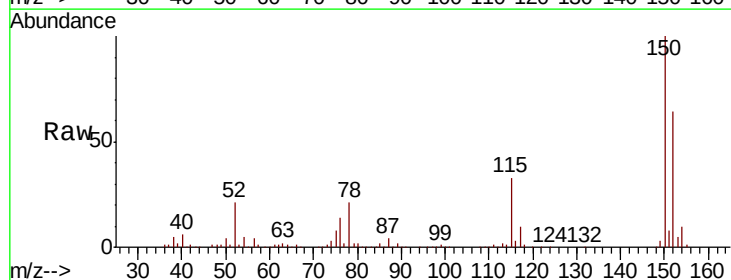


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): V  
Ion 118.95 (118.65 to 119.65): V

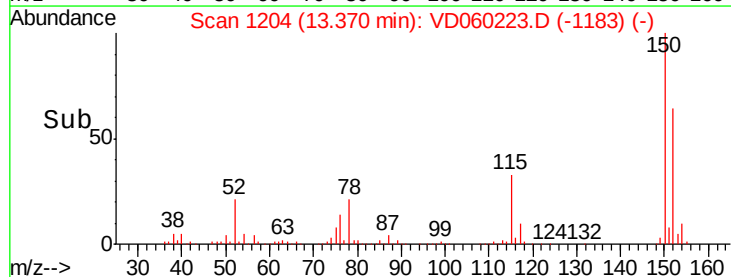
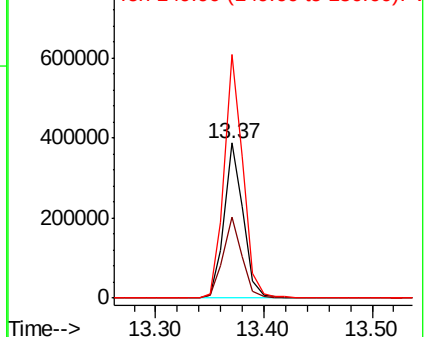


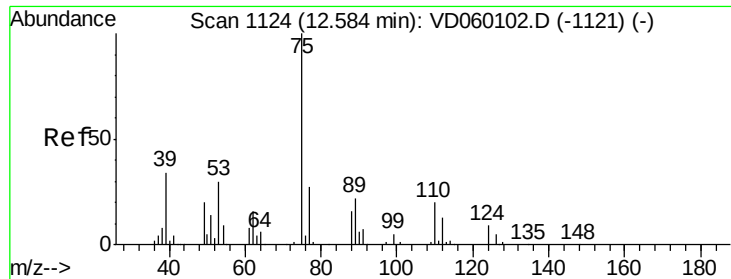
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.37 min Scan# 1204  
Delta R.T. 0.01 min  
Lab File: VD060223.D  
Acq: 26 Oct 2018 18:28

Tgt Ion:152 Resp: 472624  
Ion Ratio Lower Upper  
152 100  
115 52.0 27.1 81.2  
150 156.9 0.0 311.8



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

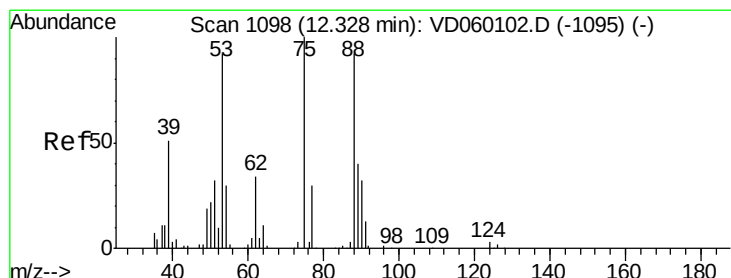
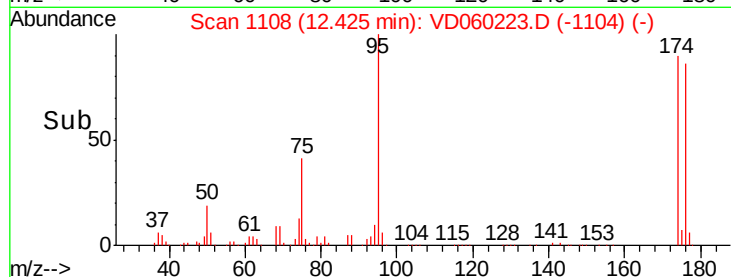
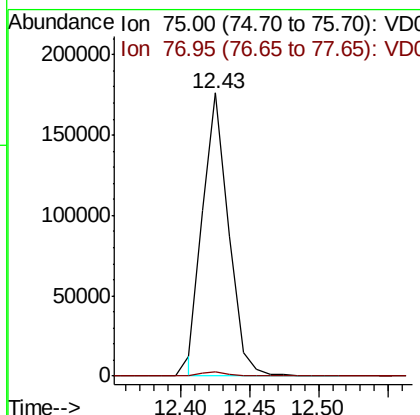
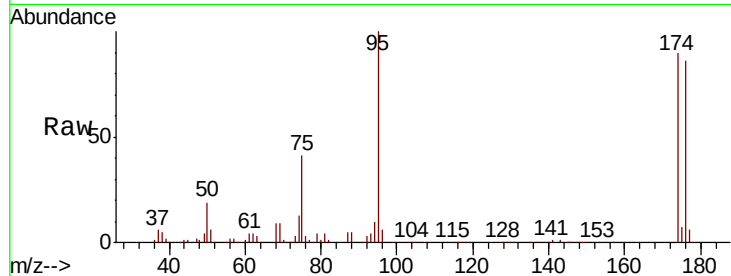




#76  
 1,2,3-Trichloropropane  
 Concen: 33.744 ug/l  
 RT: 12.43 min Scan# 1108  
 Delta R.T. -0.16 min  
 Lab File: VD060223.D  
 Acq: 26 Oct 2018 18:28

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 CHRT-58-66-98-92

Tgt Ion: 75 Resp: 229673  
 Ion Ratio Lower Upper  
 75 100  
 77 1.5 16.3 48.9#



#81  
 trans-1,4-Dichloro-2-butene  
 Concen: 123.993 ug/l  
 RT: 12.43 min Scan# 1108  
 Delta R.T. 0.10 min  
 Lab File: VD060223.D  
 Acq: 26 Oct 2018 18:28

Tgt Ion: 75 Resp: 237137  
 Ion Ratio Lower Upper  
 75 100  
 53 0.0 73.0 109.6#  
 89 0.0 32.0 48.0#

