

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD032019\  
 Data File : VD061232.D  
 Acq On : 21 Mar 2019 4:12  
 Operator : VA/AP  
 Sample : K1688-31  
 Misc : 7.09g/5ml/MSVOA D/SOIL  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 JC-02-031919-F

Quant Time: Mar 22 02:07:37 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      | 7.04  | 168  | 529943   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.22  | 114  | 932168   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 12.36 | 117  | 654535   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 14.52 | 152  | 227797   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units  | Dev(Min) |
|-----------------------------|-------|------|----------|-------|--------|----------|
| 33) 1,2-Dichloroethane-d4   | 7.45  | 65   | 193322   | 43.83 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 87.66% |          |
| 35) Dibromofluoromethane    | 6.92  | 113  | 337898   | 48.84 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 97.68% |          |
| 50) Toluene-d8              | 10.40 | 98   | 698864   | 40.23 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 80.46% |          |
| 62) 4-Bromofluorobenzene    | 13.55 | 95   | 213697   | 31.70 | ug/l   | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 63.40% |          |

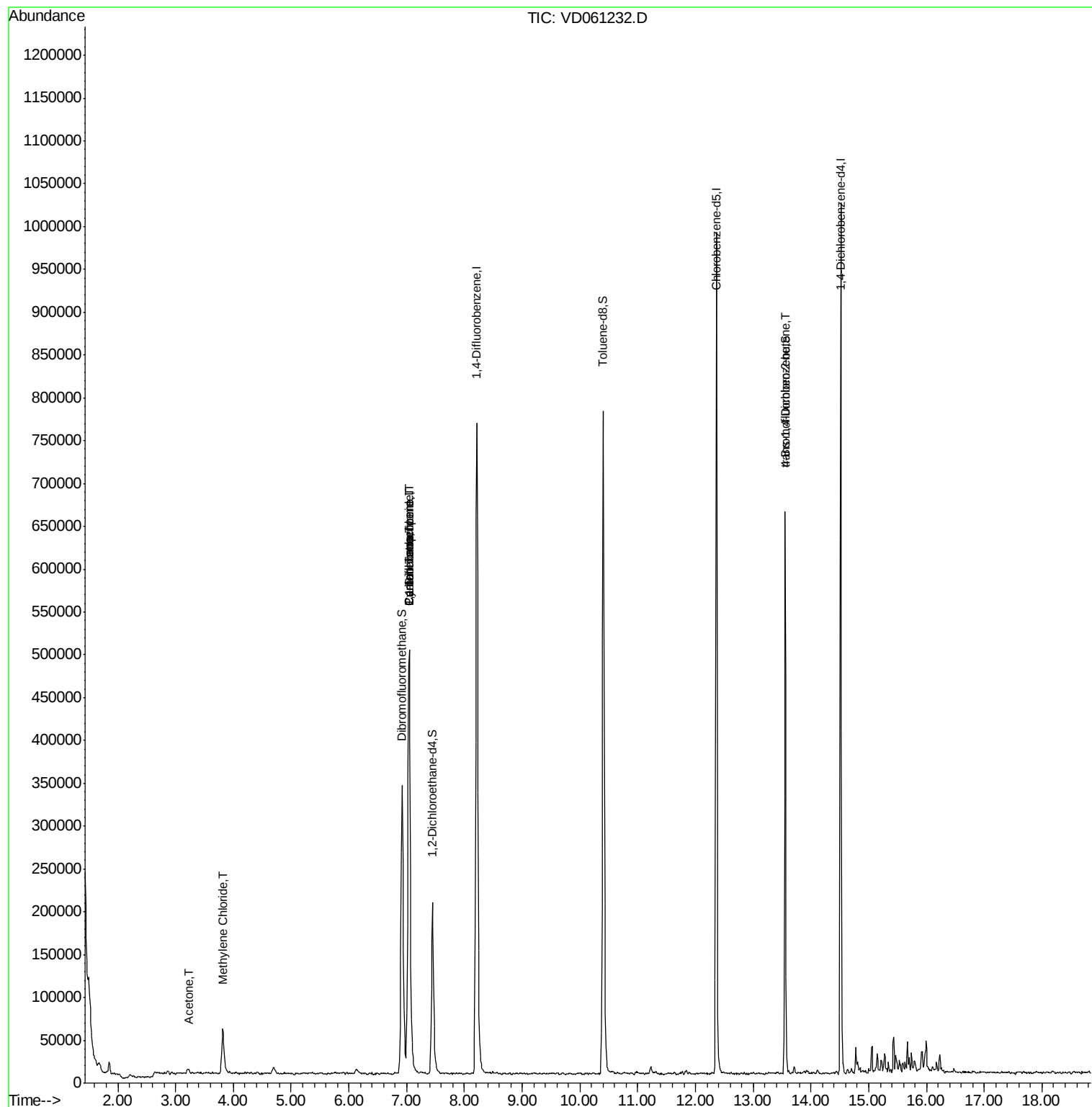
| Target Compounds               | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|--------------------------------|-------|------|----------|--------|--------|--------|
| 16) Acetone                    | 3.22  | 43   | 10527    | 8.345  | ug/l   | 90     |
| 20) Methylene Chloride         | 3.81  | 84   | 41795    | 2.871  | ug/l   | 92     |
| 31) Cyclohexane                | 7.03  | 56   | 8119     | 1.040  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.03  | 75   | 38030    | 4.733  | ug/l # | 45     |
| 38) Carbon Tetrachloride       | 7.04  | 117  | 50750    | 5.734  | ug/l # | 15     |
| 81) trans-1,4-Dichloro-2-buten | 13.55 | 75   | 76243    | 78.910 | ug/l # | 17     |

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

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Sample : K1688-31  
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JC-02-031919-F

Quant Time: Mar 22 02:07:37 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: 7.04 min Scan# 571

Delta R.T. 0.00 min

Lab File: VD061232.D

Acq: 21 Mar 2019 4:12

Instrument :

MSVOA\_D

ClientSampleId :

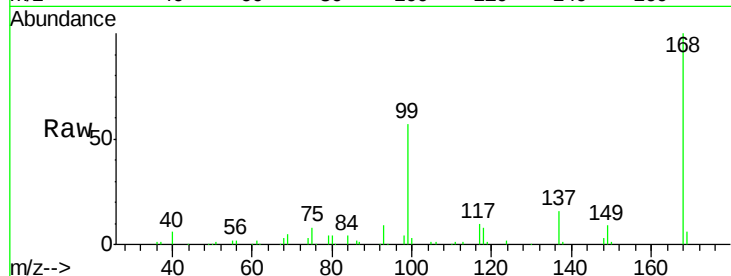
JC-02-031919-F

Tot Ion:168 Resp: 529943

Ion Ratio Lower Upper

168 100

99 56.6 47.3 70.9



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC

7.04

150000

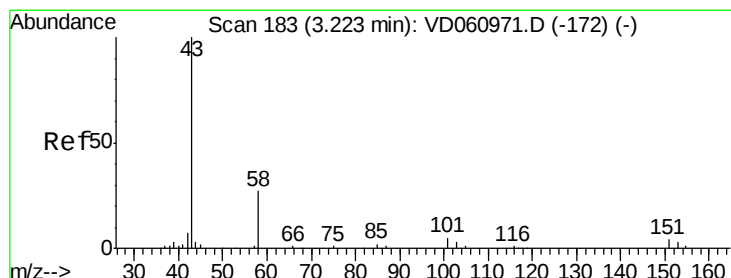
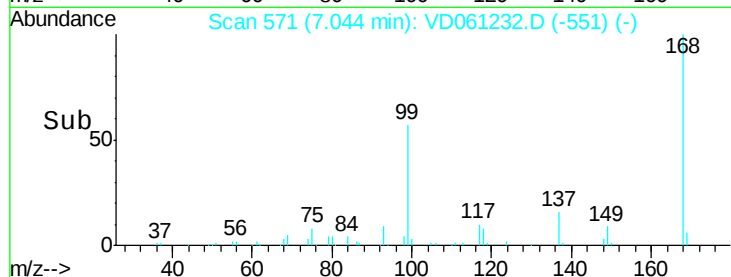
100000

50000

0

6.90 7.00 7.10 7.20

Time-->



#16

Acetone

Concen: 8.345 ug/l

RT: 3.22 min Scan# 183

Delta R.T. 0.00 min

Lab File: VD061232.D

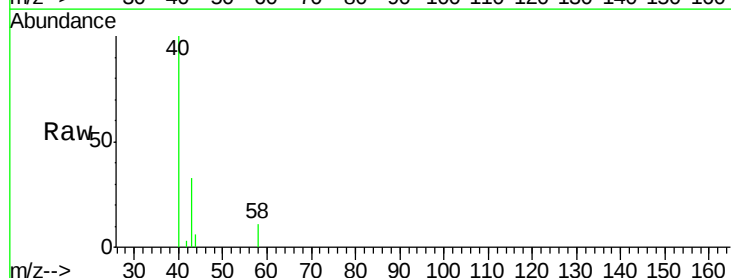
Acq: 21 Mar 2019 4:12

Tgt Ion: 43 Resp: 10527

Ion Ratio Lower Upper

43 100

58 32.0 21.6 32.4



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC

3.22

4000

3000

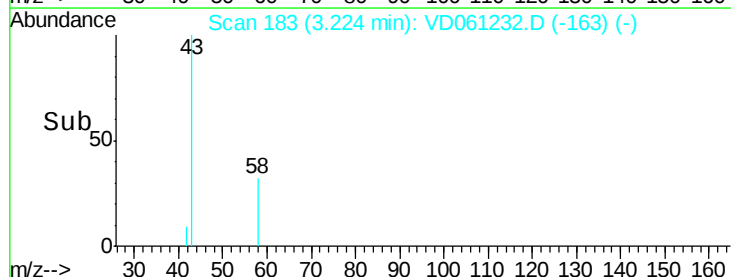
2000

1000

0

3.10 3.20 3.30

Time-->

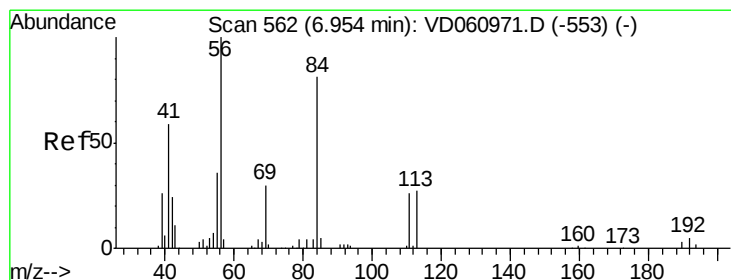
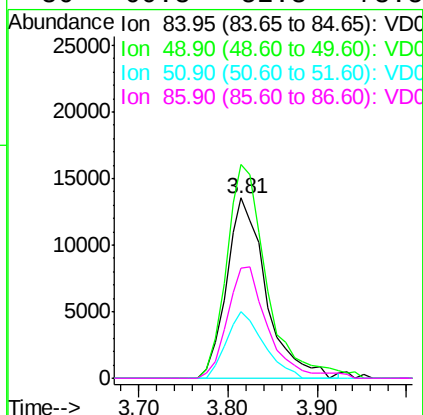
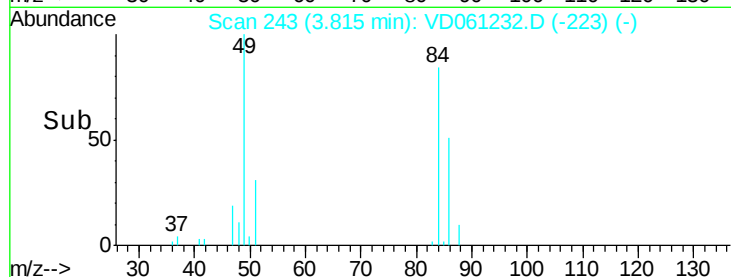
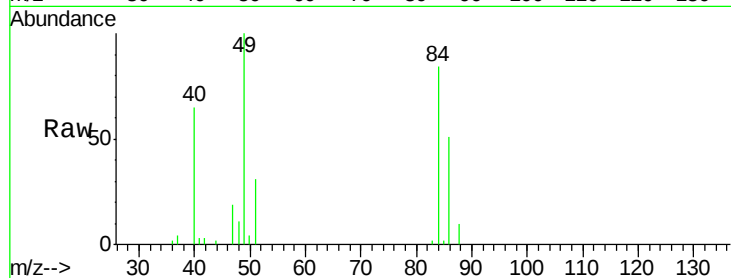




#20  
Methvlene Chloride  
Concen: 2.871 ug/l  
RT: 3.81 min Scan# 243  
Delta R.T. -0.01 min  
Lab File: VD061232.D  
Acq: 21 Mar 2019 4:12

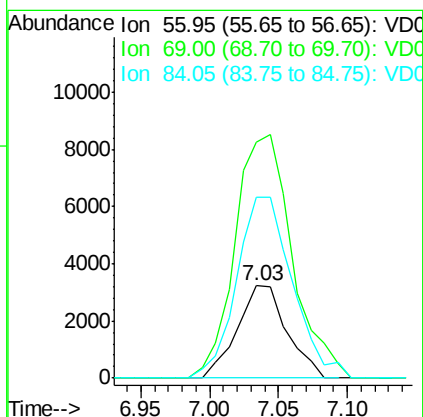
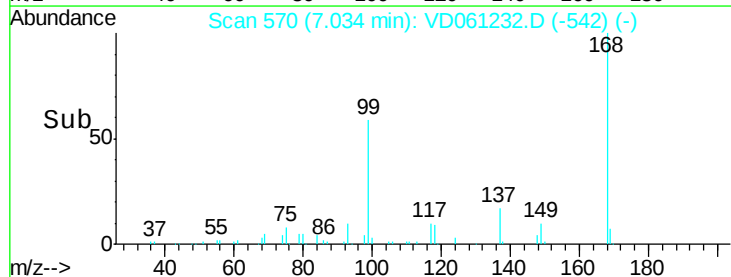
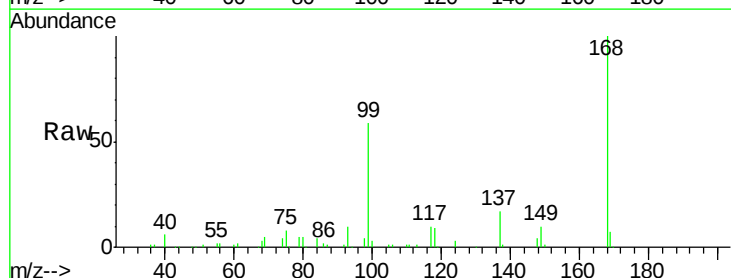
Instrument :  
MSVOA\_D  
ClientSampleId :  
JC-02-031919-F

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 41795 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 118.6 | 104.2 | 156.2 |
| 51       | 36.7  | 32.3  | 48.5  |
| 86       | 60.8  | 52.3  | 78.5  |



#31  
Cyclohexane  
Concen: 1.040 ug/l  
RT: 7.03 min Scan# 570  
Delta R.T. 0.08 min  
Lab File: VD061232.D  
Acq: 21 Mar 2019 4:12

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 56    | Resp: | 8119  |
| Ion      | Ratio | Lower | Upper |
| 56       | 100   |       |       |
| 69       | 256.2 | 24.0  | 36.0# |
| 84       | 196.8 | 65.8  | 98.6# |

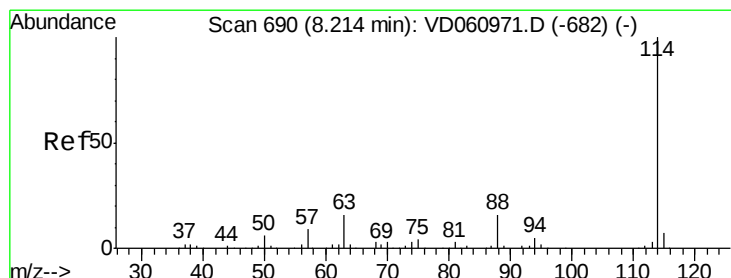
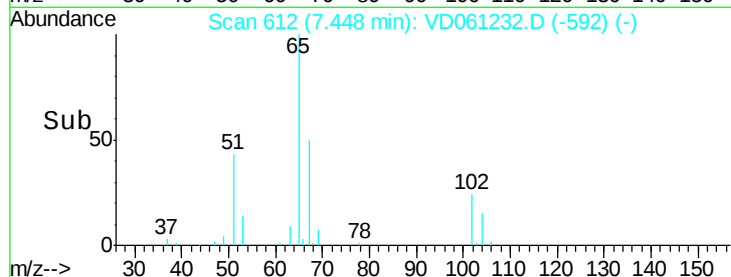
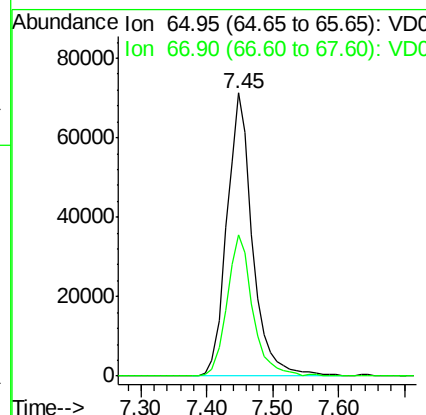
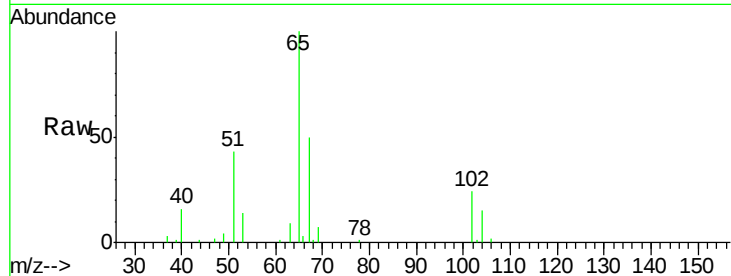




#33  
 1,2-Dichloroethane-d4  
 Concen: N.D. ug/l  
 RT: 7.45 min Scan# 612  
 Delta R.T. 0.00 min  
 Lab File: VD061232.D  
 Acq: 21 Mar 2019 4:12

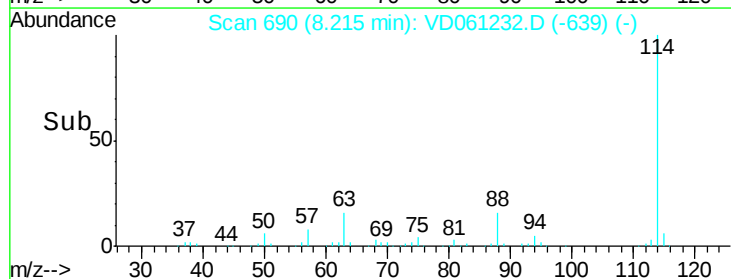
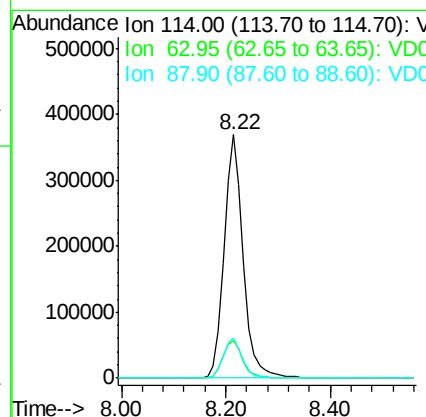
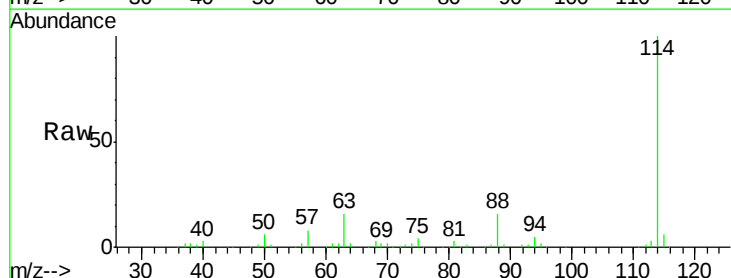
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 JC-02-031919-F

Tot Ion: 65 Resp: 193322  
 Ion Ratio Lower Upper  
 65 100  
 67 49.7 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.22 min Scan# 690  
 Delta R.T. 0.00 min  
 Lab File: VD061232.D  
 Acq: 21 Mar 2019 4:12

Tgt Ion: 114 Resp: 932168  
 Ion Ratio Lower Upper  
 114 100  
 63 15.7 0.0 31.4  
 88 16.3 0.0 33.0





#35

Dibromofluoromethane

Concen: 50.000 ug/l

RT: 6.92 min Scan# 558

Delta R.T. -0.01 min

Lab File: VD061232.D

Acq: 21 Mar 2019 4:12

Instrument :

MSVOA\_D

ClientSampleId :

JC-02-031919-F

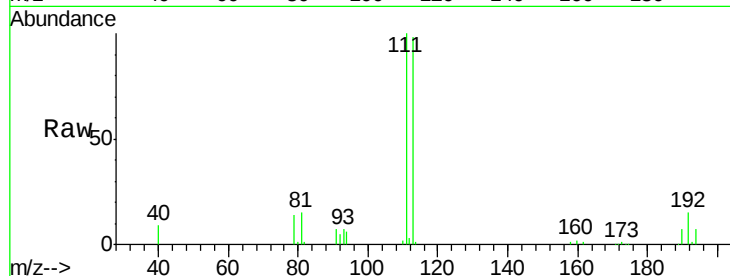
Tot Ion:113 Resp: 337898

Ion Ratio Lower Upper

113 100

111 102.2 84.2 126.4

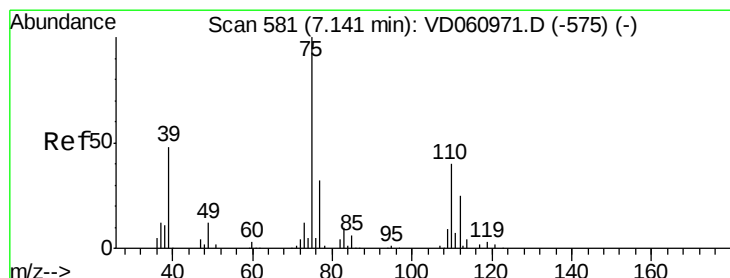
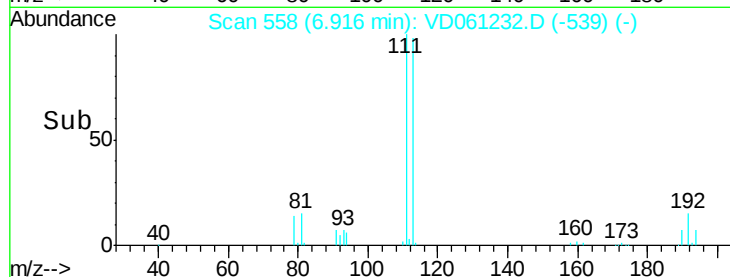
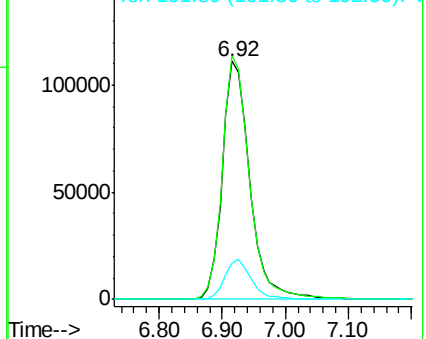
192 15.4 13.1 19.7



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: 4.733 ug/l

RT: 7.03 min Scan# 570

Delta R.T. -0.11 min

Lab File: VD061232.D

Acq: 21 Mar 2019 4:12

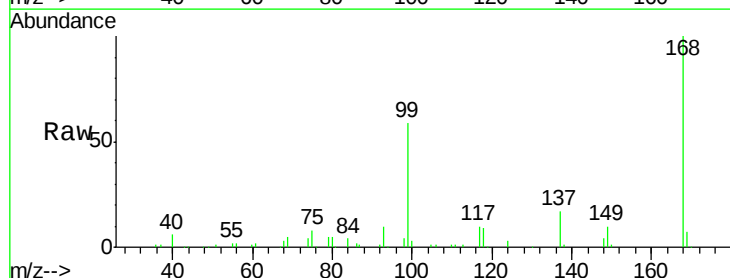
Tgt Ion: 75 Resp: 38030

Ion Ratio Lower Upper

75 100

110 6.5 19.7 59.1#

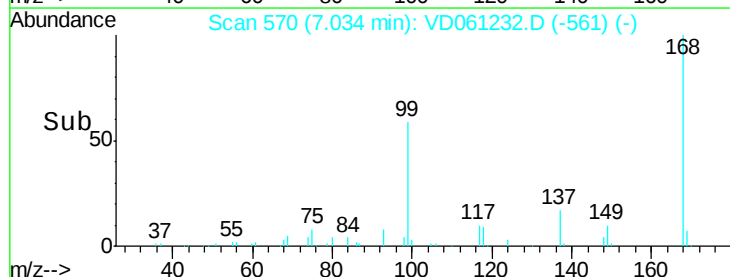
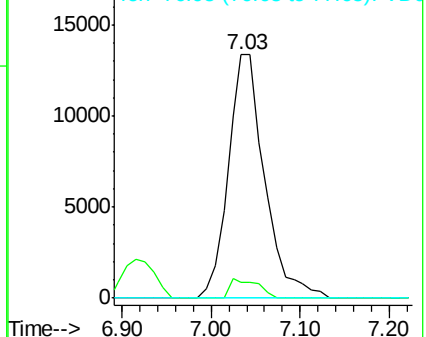
77 0.0 24.7 37.1#

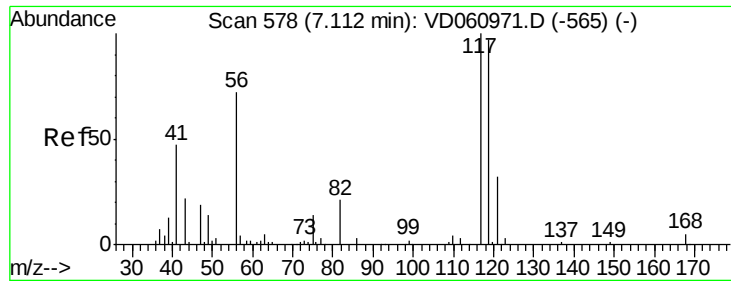


Abundance Ion 75.00 (74.70 to 75.70): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.95 (76.65 to 77.65): V

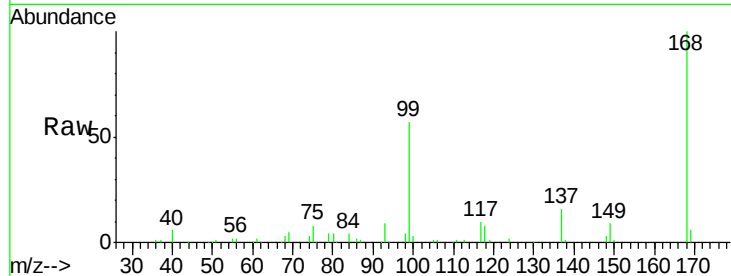




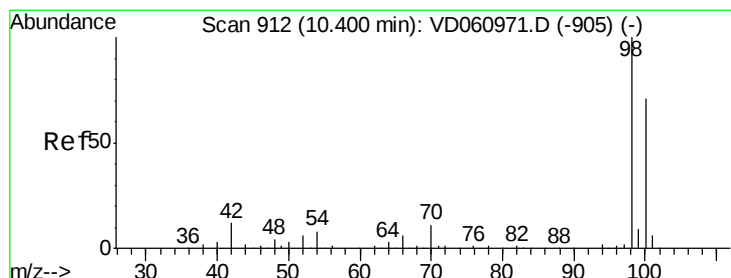
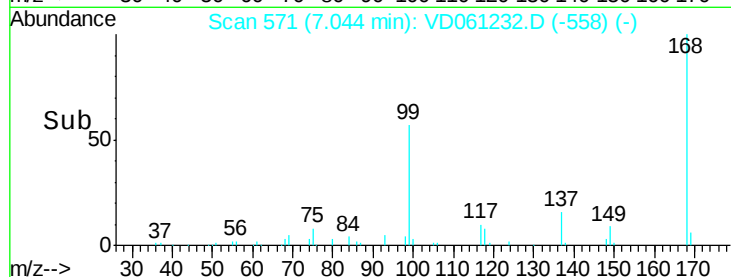
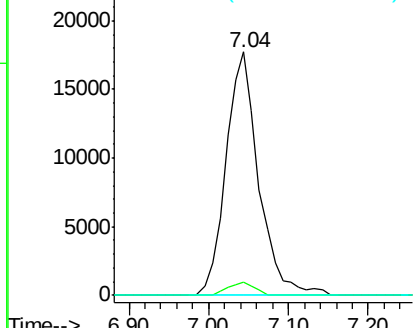
#38  
Carbon Tetrachloride  
Concen: 5.734 ug/l  
RT: 7.04 min Scan# 571  
Delta R.T. -0.07 min  
Lab File: VD061232.D  
Acq: 21 Mar 2019 4:12

Instrument :  
MSVOA\_D  
ClientSampleId :  
JC-02-031919-F

Tot Ion:117 Resp: 50750  
Ion Ratio Lower Upper  
117 100  
119 5.3 77.8 116.8#  
121 0.0 25.3 37.9#

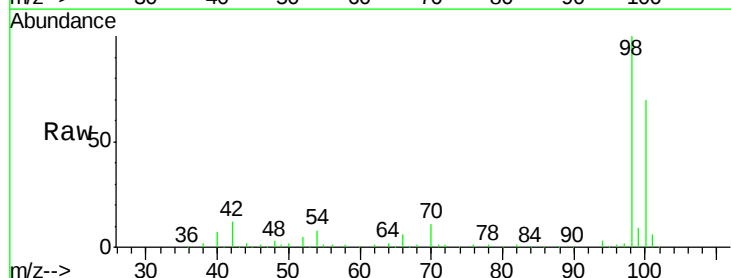


Abundance Ion 116.85 (116.55 to 117.55): V  
Ion 118.85 (118.55 to 119.55): V  
Ion 120.85 (120.55 to 121.55): V

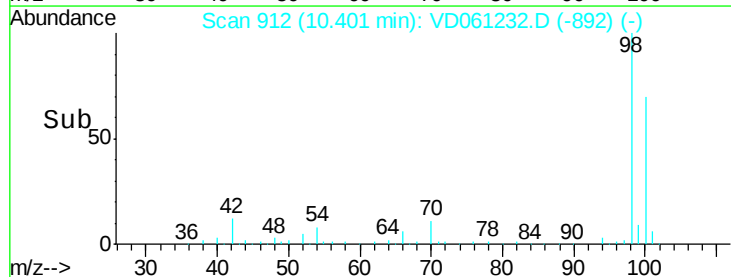
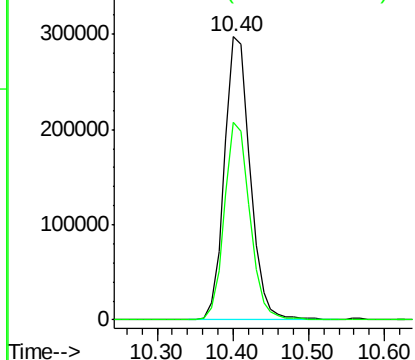


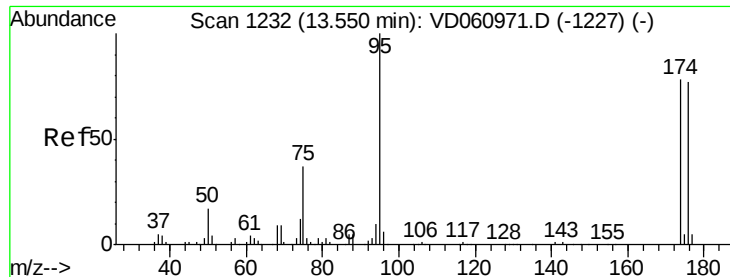
#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.40 min Scan# 912  
Delta R.T. 0.00 min  
Lab File: VD061232.D  
Acq: 21 Mar 2019 4:12

Tgt Ion: 98 Resp: 698864  
Ion Ratio Lower Upper  
98 100  
100 69.7 57.4 86.2



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





#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.00 min

Lab File: VD061232.D

Acq: 21 Mar 2019 4:12

Instrument :

MSVOA\_D

ClientSampleId :

JC-02-031919-F

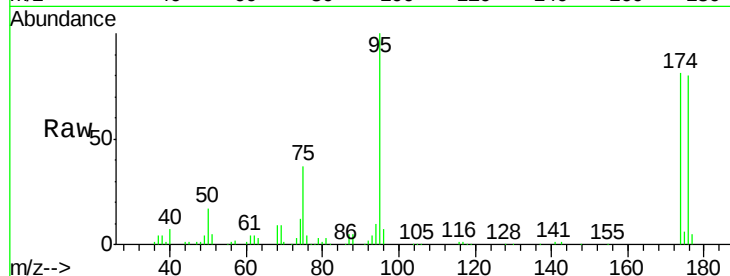
Tot Ion: 95 Resp: 213697

Ion Ratio Lower Upper

95 100

174 81.2 0.0 155.6

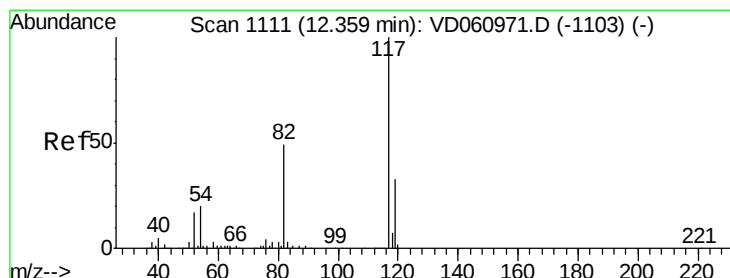
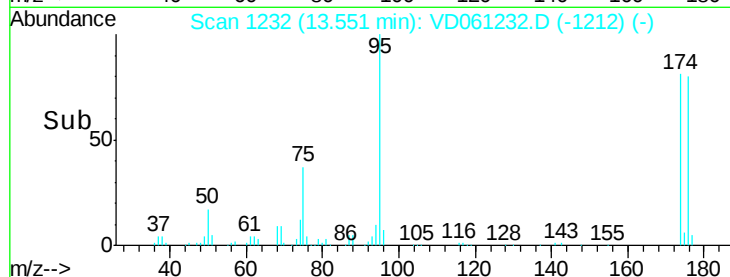
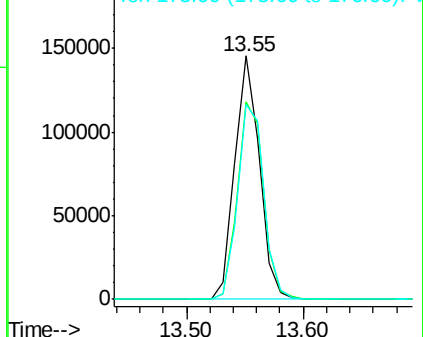
176 79.8 0.0 153.8



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: VD061232.D

Acq: 21 Mar 2019 4:12

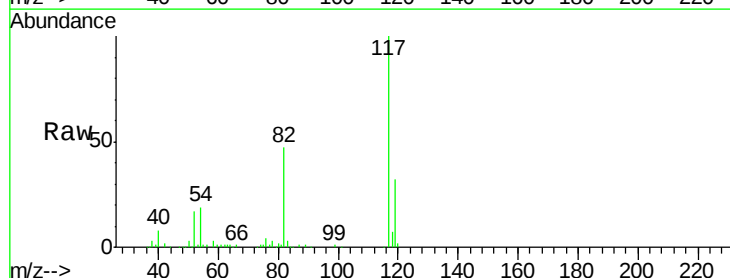
Tgt Ion: 117 Resp: 654535

Ion Ratio Lower Upper

117 100

82 47.5 38.9 58.3

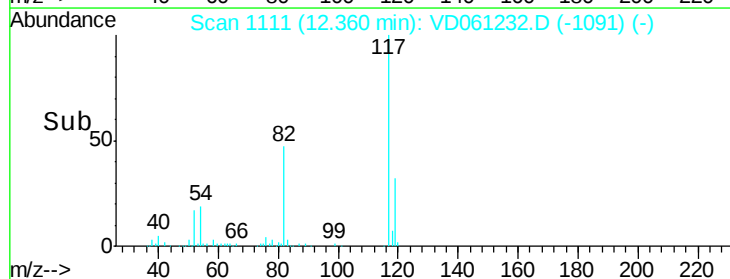
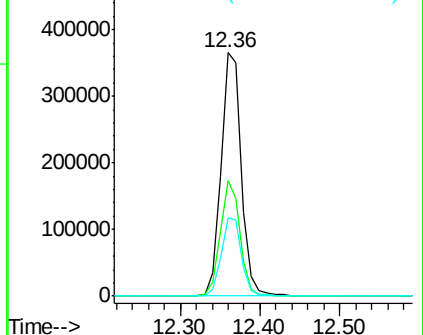
119 32.1 26.6 39.8

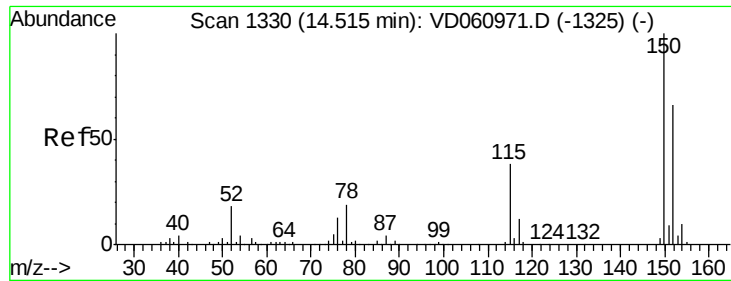


Abundance Ion 116.95 (116.65 to 117.65): V

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: 14.52 min Scan# 1330

Delta R.T. 0.00 min

Lab File: VD061232.D

Acq: 21 Mar 2019 4:12

Instrument :

MSVOA\_D

ClientSampleId :

JC-02-031919-F

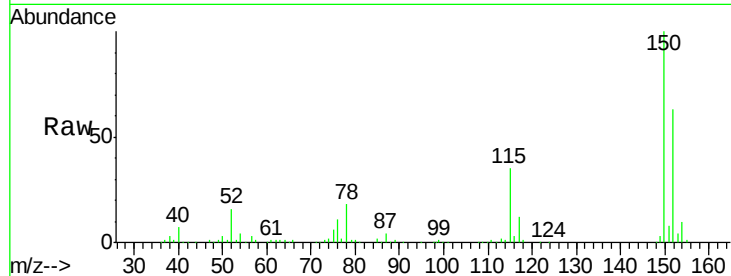
Tot Ion:152 Resp: 227797

Ion Ratio Lower Upper

152 100

115 55.2 28.6 85.9

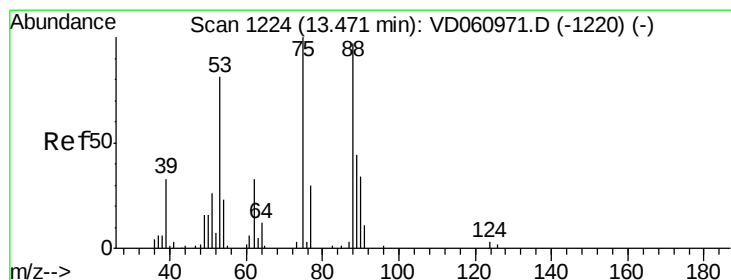
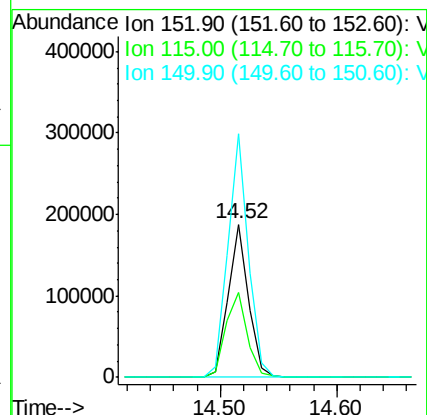
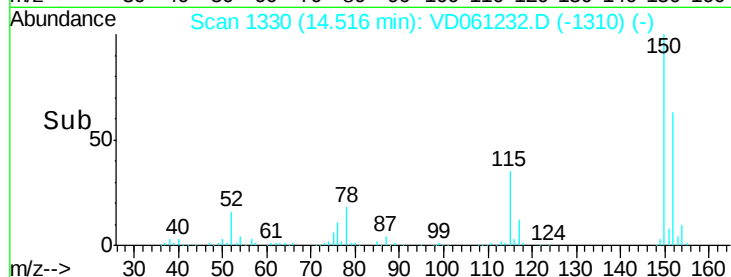
150 159.1 0.0 310.6



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: 78.910 ug/l

RT: 13.55 min Scan# 1232

Delta R.T. 0.08 min

Lab File: VD061232.D

Acq: 21 Mar 2019 4:12

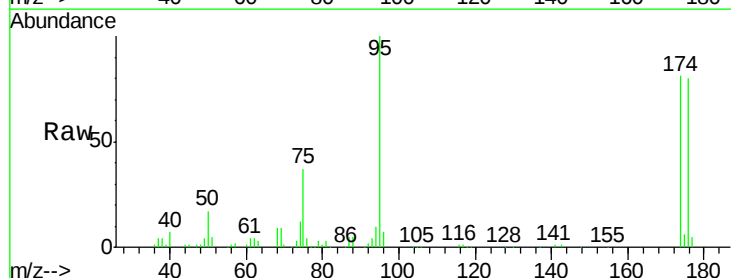
Tgt Ion: 75 Resp: 76243

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

