

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD111318\  
 Data File : VD060364.D  
 Acq On : 13 Nov 2018 16:55  
 Operator : JC/SY  
 Sample : J5889-06RE  
 Misc : 10.45g/5ml/MSVOA D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :

Quant Time: Nov 14 05:50:25 2018  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 06 13:56:04 2018  
 Response via : Initial Calibration

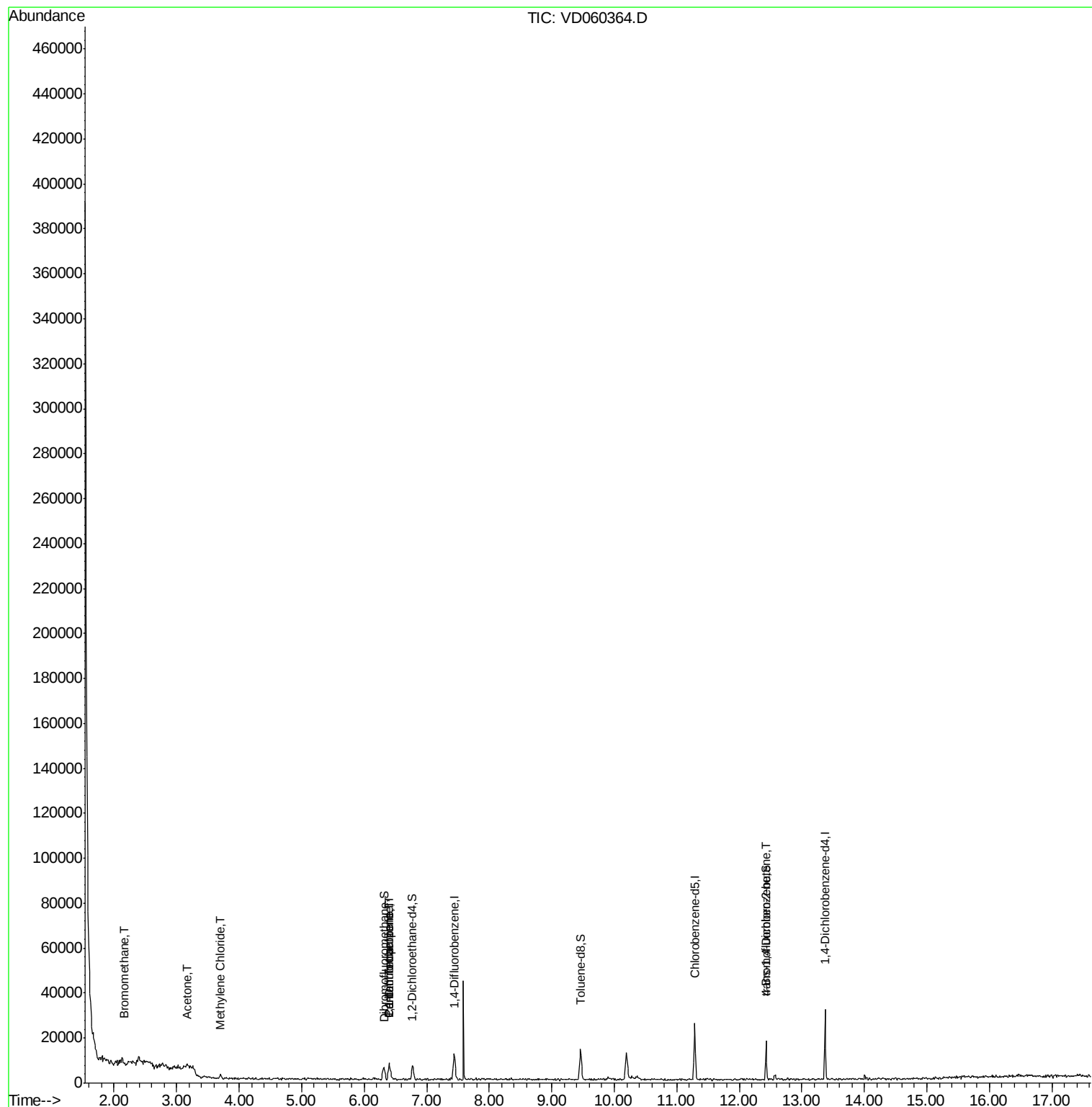
| Internal Standards             | R.T.   | QIon | Response | Conc    | Units   | Dev(Min) |
|--------------------------------|--------|------|----------|---------|---------|----------|
| 1) Pentafluorobenzene          | 6.41   | 168  | 10018    | 50.00   | ug/l    | -0.02    |
| 34) 1,4-Difluorobenzene        | 7.44   | 114  | 16422    | 50.00   | ug/l    | -0.02    |
| 63) Chlorobenzene-d5           | 11.29  | 117  | 16295    | 50.00   | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.37  | 152  | 7022     | 50.00   | ug/l    | 0.00     |
| System Monitoring Compounds    |        |      |          |         |         |          |
| 33) 1,2-Dichloroethane-d4      | 6.77   | 65   | 5856     | 81.64   | ug/l    | -0.03    |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 163.28% |          |
| 35) Dibromofluoromethane       | 6.32   | 113  | 5362     | 43.79   | ug/l    | -0.02    |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 87.58%  |          |
| 50) Toluene-d8                 | 9.46   | 98   | 12420    | 34.65   | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 69.30%  |          |
| 62) 4-Bromofluorobenzene       | 12.43  | 95   | 5413     | 41.68   | ug/l    | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =       | 83.36%  |          |
| Target Compounds               |        |      |          |         |         |          |
|                                |        |      |          |         | Qvalue  |          |
| 5) Bromomethane                | 2.16   | 94   | 184      | 10.008  | ug/l #  | 2        |
| 16) Acetone                    | 3.16   | 43   | 2369     | 190.397 | ug/l #  | 55       |
| 20) Methylene Chloride         | 3.71   | 84   | 957      | 8.671   | ug/l #  | 68       |
| 36) 1,1-Dichloropropene        | 6.40   | 75   | 266      | 1.640   | ug/l #  | 41       |
| 38) Carbon Tetrachloride       | 6.41   | 117  | 191      | 1.269   | ug/l #  | 12       |
| 81) trans-1,4-Dichloro-2-buten | 12.43  | 75   | 2121     | 88.691  | ug/l #  | 15       |

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

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MSVOA\_D  
ClientSampleId :

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D110618S.M  
Quant Title : SW846 8260  
QLast Update : Tue Nov 06 13:56:04 2018  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 6.41 min Scan# 496

Delta R.T. -0.02 min

Lab File: VD060364.D

Acq: 13 Nov 2018 16:55

Instrument :

MSVOA\_D

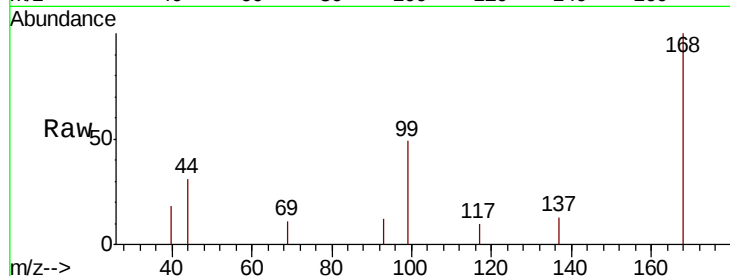
ClientSampled :

Tot Ion:168 Resp: 10018

Ion Ratio Lower Upper

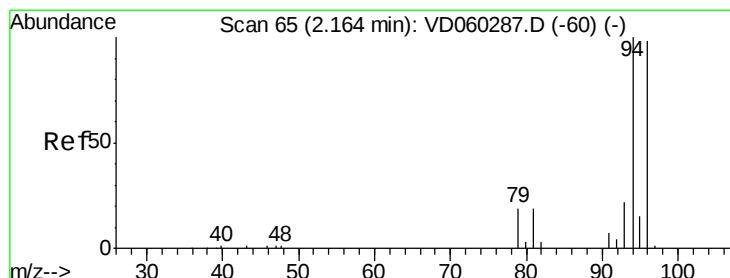
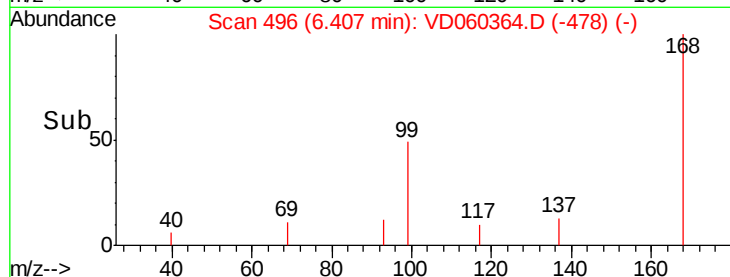
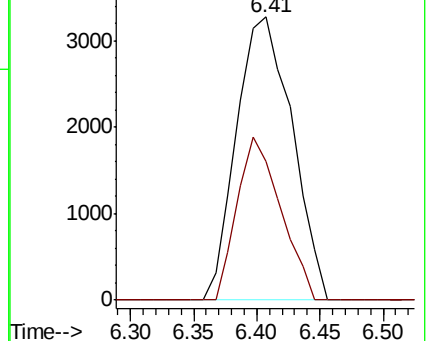
168 100

99 48.8 39.8 59.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#5

Bromomethane

Concen: 10.008 ug/l

RT: 2.16 min Scan# 64

Delta R.T. -0.01 min

Lab File: VD060364.D

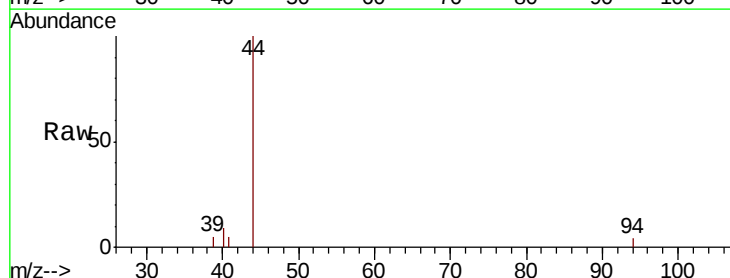
Acq: 13 Nov 2018 16:55

Tgt Ion: 94 Resp: 184

Ion Ratio Lower Upper

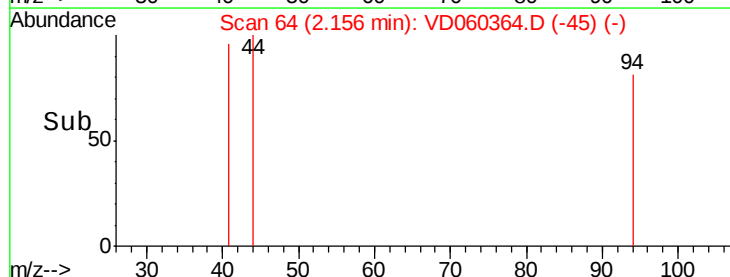
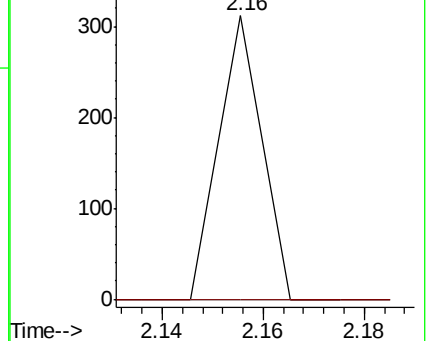
94 100

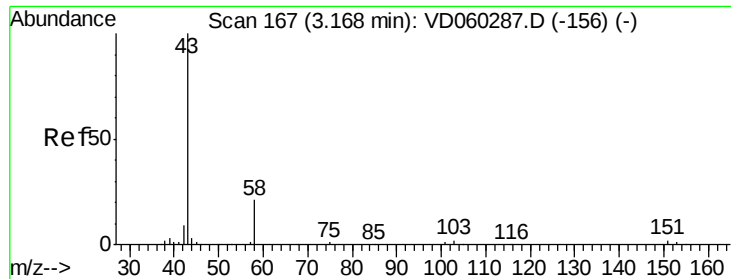
96 0.0 76.6 114.8#



Abundance Ion 93.90 (93.60 to 94.60): VDC

Ion 95.90 (95.60 to 96.60): VDC





#16

Acetone

Concen: 190.397 ug/l

RT: 3.16 min Scan# 166

Delta R.T. -0.01 min

Lab File: VD060364.D

Acq: 13 Nov 2018 16:55

Instrument :

MSVOA\_D

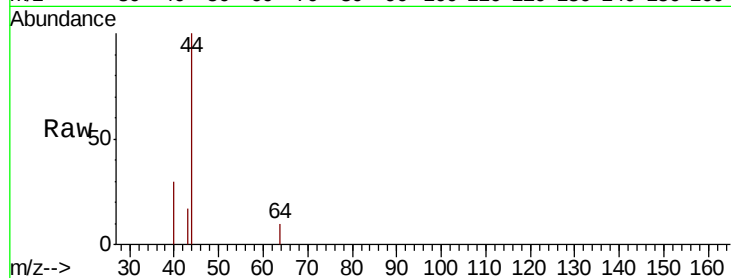
ClientSampleId :

Tot Ion: 43 Resp: 2369

Ion Ratio Lower Upper

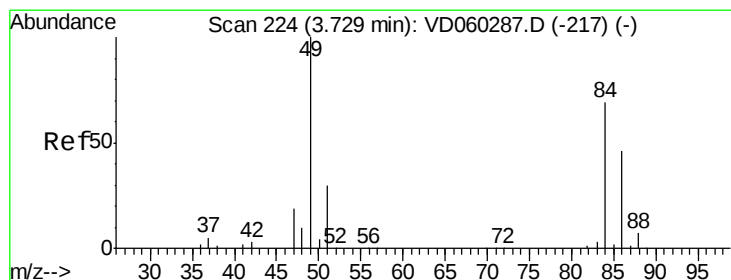
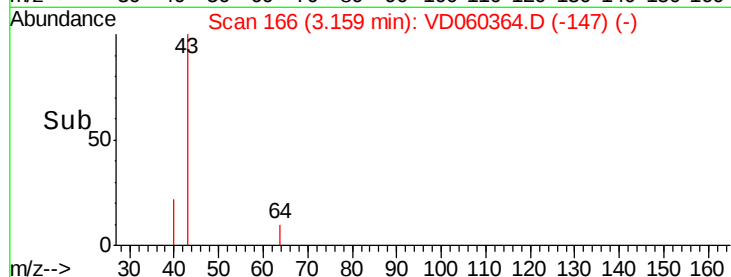
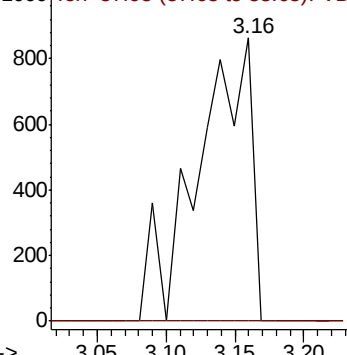
43 100

58 0.0 16.9 25.3#



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC



#20

Methylene Chloride

Concen: 8.671 ug/l

RT: 3.71 min Scan# 222

Delta R.T. -0.02 min

Lab File: VD060364.D

Acq: 13 Nov 2018 16:55

Tgt Ion: 84 Resp: 957

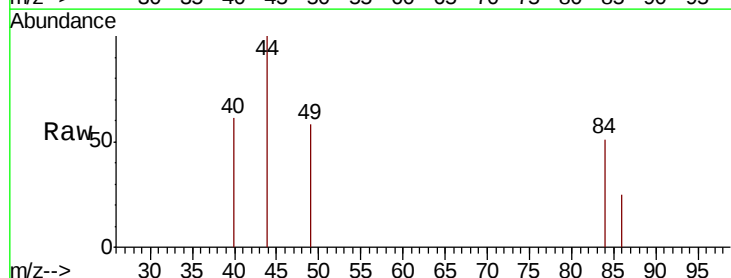
Ion Ratio Lower Upper

84 100

49 112.9 115.6 173.4#

51 0.0 35.6 53.4#

86 47.8 52.3 78.5#

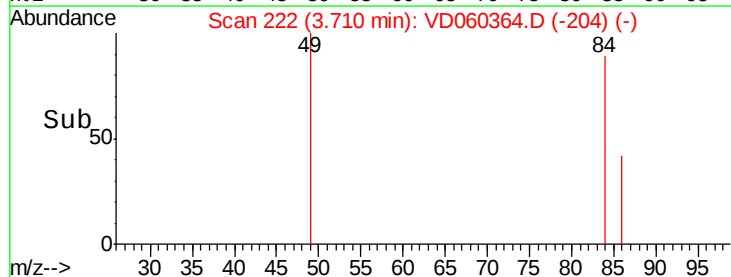
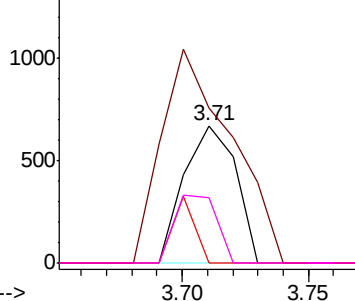


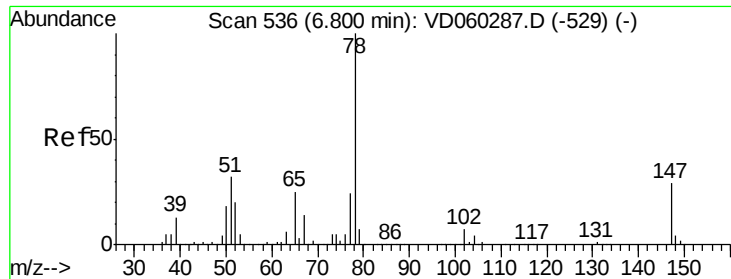
Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC





#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 6.77 min Scan# 533

Delta R.T. -0.03 min

Lab File: VD060364.D

Acq: 13 Nov 2018 16:55

Instrument :

MSVOA\_D

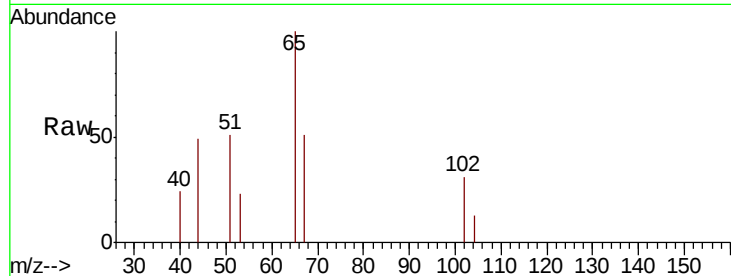
ClientSampled :

Tot Ion: 65 Resp: 5856

Ion Ratio Lower Upper

65 100

67 50.9 0.0 109.8



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

6.77

2500

2000

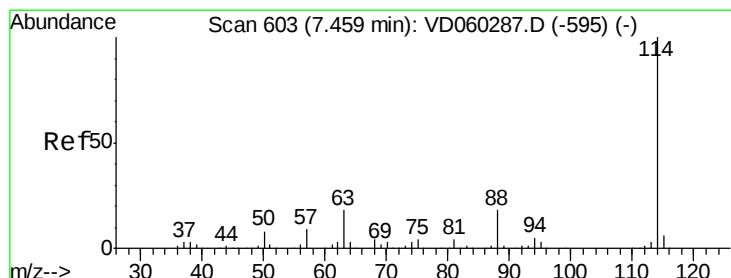
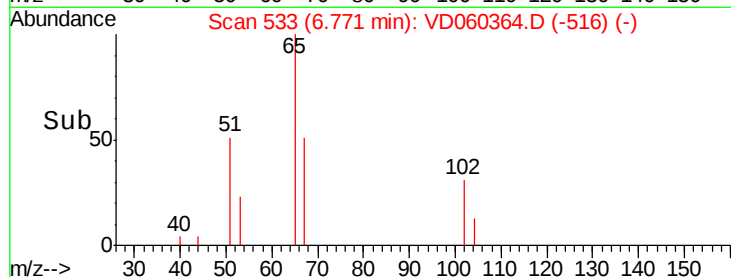
1500

1000

500

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 7.44 min Scan# 601

Delta R.T. -0.02 min

Lab File: VD060364.D

Acq: 13 Nov 2018 16:55

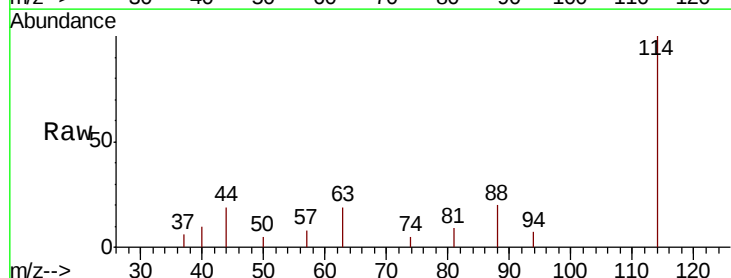
Tgt Ion:114 Resp: 16422

Ion Ratio Lower Upper

114 100

63 19.4 0.0 34.0

88 19.9 0.0 35.4



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

8000

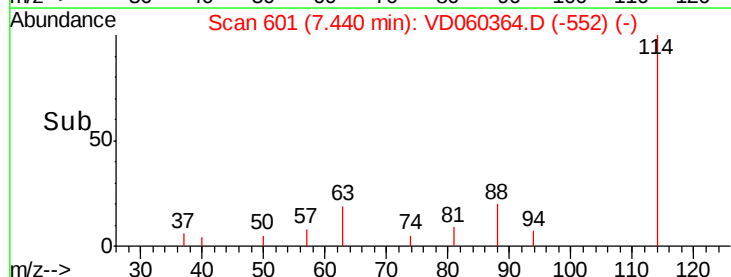
6000

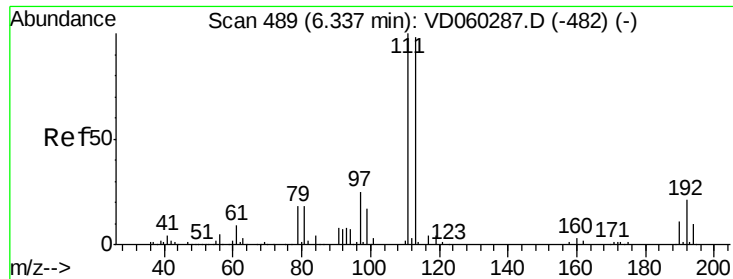
4000

2000

0

Time-->

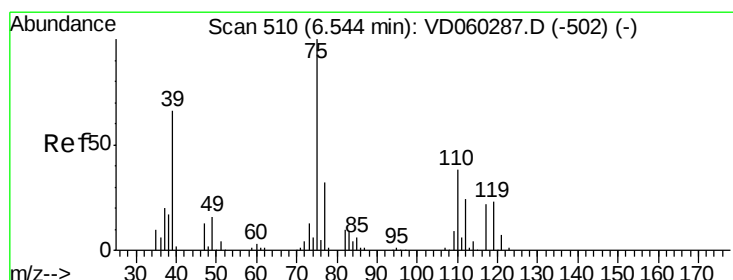
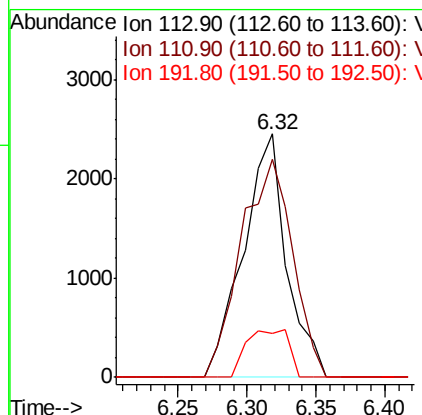
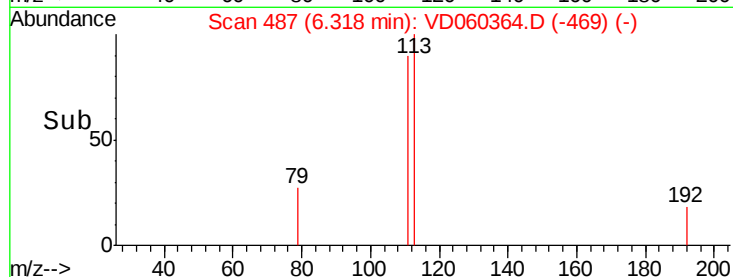
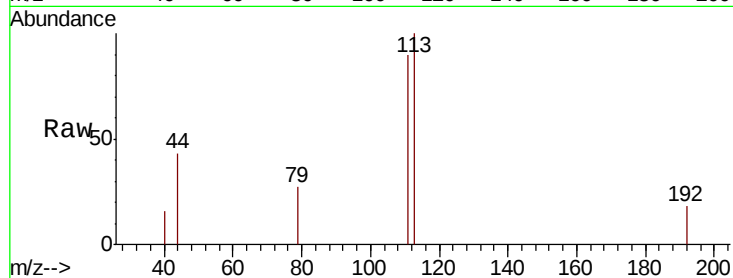




#35  
 Dibromofluoromethane  
 Concen: 50.000 ug/l  
 RT: 6.32 min Scan# 487  
 Delta R.T. -0.02 min  
 Lab File: VD060364.D  
 Acq: 13 Nov 2018 16:55

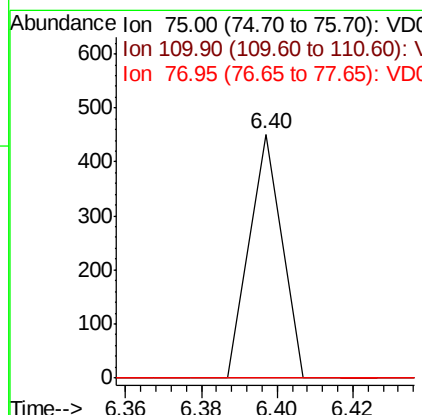
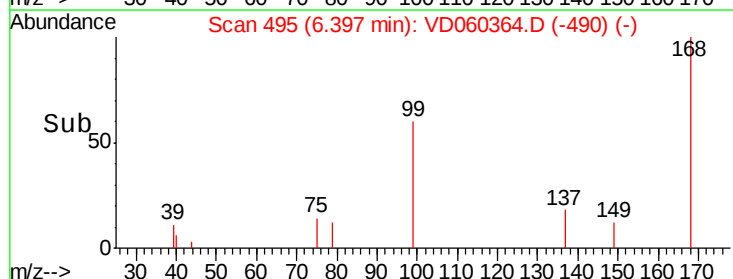
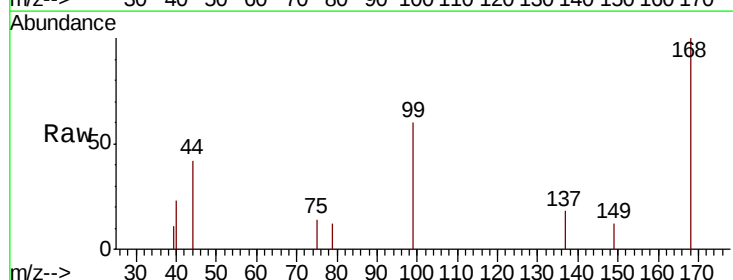
Instrument :  
 MSVOA\_D  
 ClientSampleId :

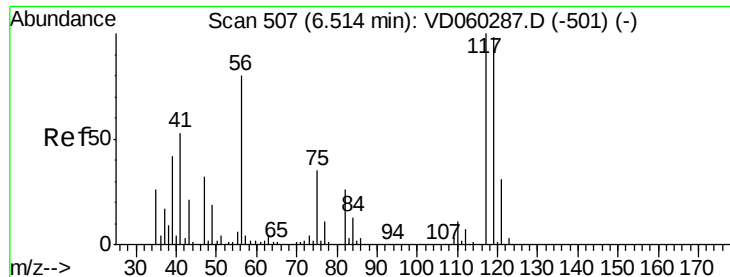
Tot Ion:113 Resp: 5362  
 Ion Ratio Lower Upper  
 113 100  
 111 89.5 81.6 122.4  
 192 18.1 16.5 24.7



#36  
 1,1-Dichloropropene  
 Concen: 1.640 ug/l  
 RT: 6.40 min Scan# 495  
 Delta R.T. -0.15 min  
 Lab File: VD060364.D  
 Acq: 13 Nov 2018 16:55

Tgt Ion: 75 Resp: 266  
 Ion Ratio Lower Upper  
 75 100  
 110 0.0 18.0 54.0#  
 77 0.0 25.6 38.4#





#38

Carbon Tetrachloride

Concen: 1.269 ug/l

RT: 6.41 min Scan# 496

Delta R.T. -0.11 min

Lab File: VD060364.D

Acq: 13 Nov 2018 16:55

Instrument :

MSVOA\_D

ClientSampleId :

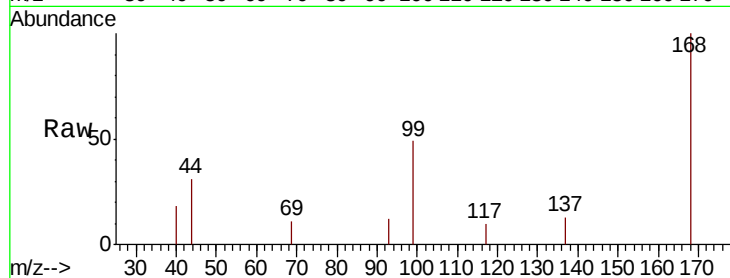
Tot Ion:117 Resp: 191

Ion Ratio Lower Upper

117 100

119 0.0 76.6 115.0#

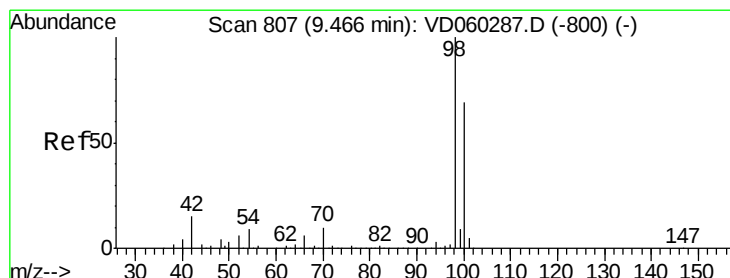
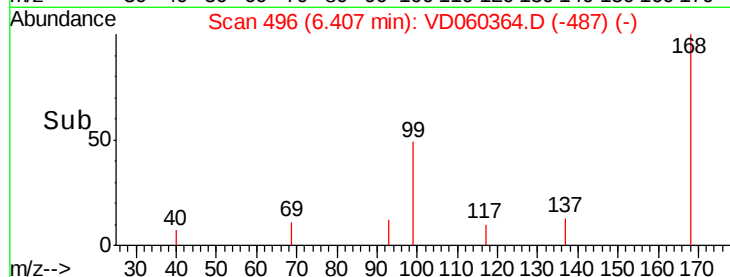
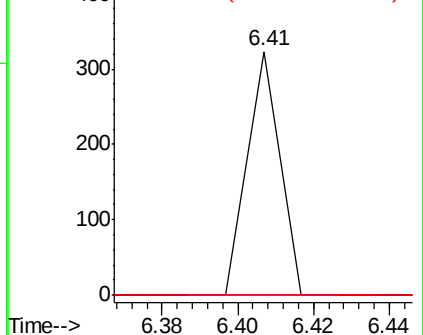
121 0.0 24.3 36.5#



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: 9.46 min Scan# 806

Delta R.T. -0.01 min

Lab File: VD060364.D

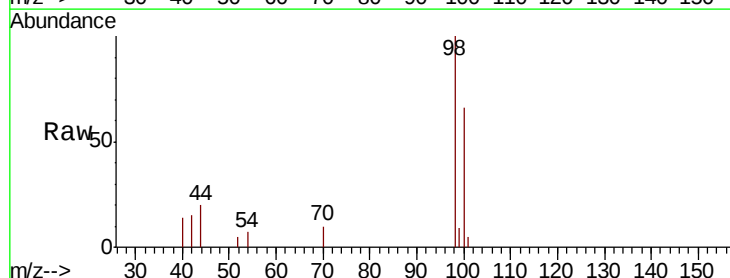
Acq: 13 Nov 2018 16:55

Tgt Ion: 98 Resp: 12420

Ion Ratio Lower Upper

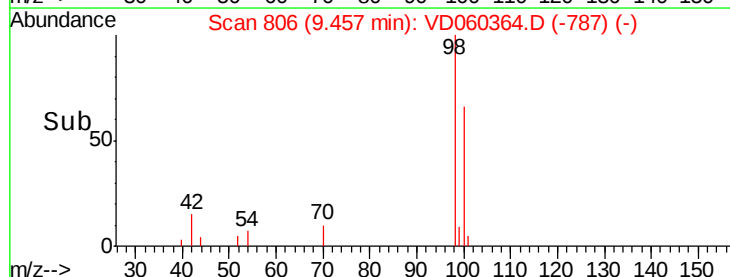
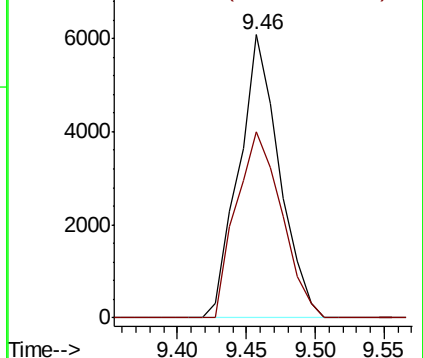
98 100

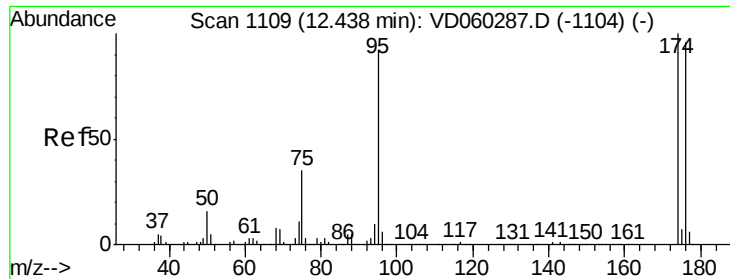
100 65.7 55.2 82.8



Abundance Ion 98.05 (97.75 to 98.75): V

Ion 100.05 (99.75 to 100.75): V

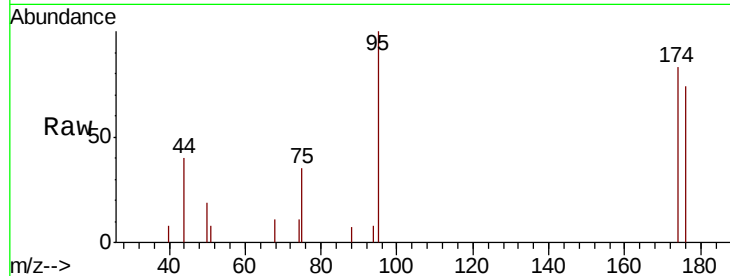




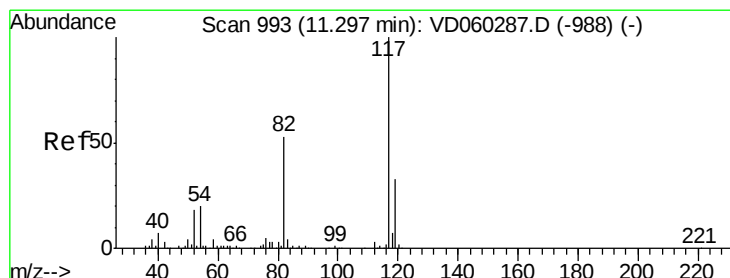
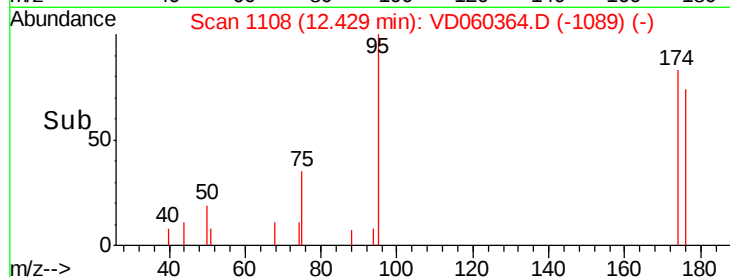
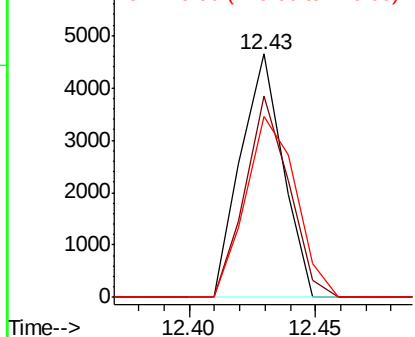
#62  
4-Bromofluorobenzene  
Concen: N.D. ug/l  
RT: 12.43 min Scan# 1108  
Delta R.T. -0.01 min  
Lab File: VD060364.D  
Acq: 13 Nov 2018 16:55

Instrument :  
MSVOA\_D  
ClientSampleId :

Tot Ion: 95 Resp: 5413  
Ion Ratio Lower Upper  
95 100  
174 82.6 0.0 160.8  
176 74.4 0.0 154.6

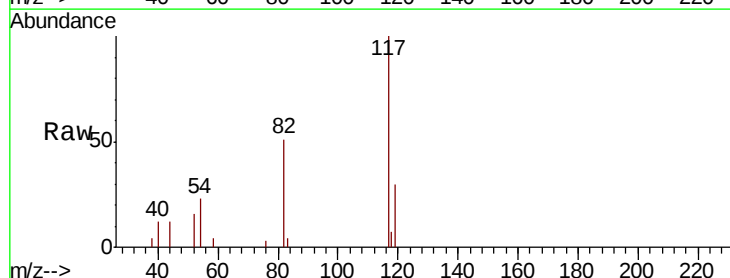


Abundance Ion 95.00 (94.70 to 95.70): V  
Ion 173.90 (173.60 to 174.60): V  
Ion 175.90 (175.60 to 176.60): V

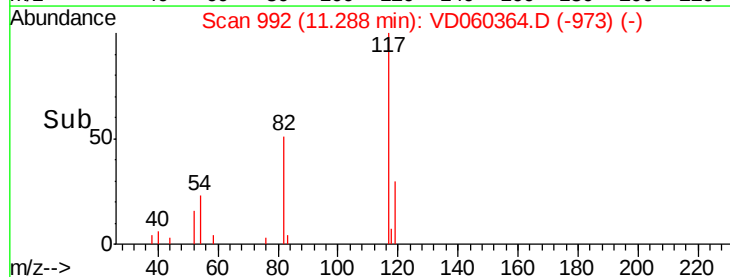
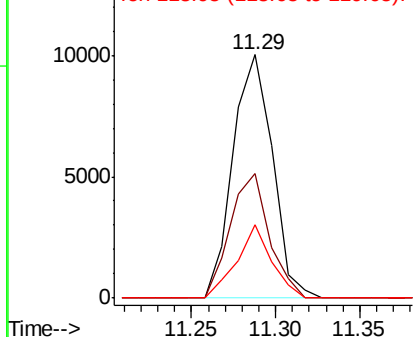


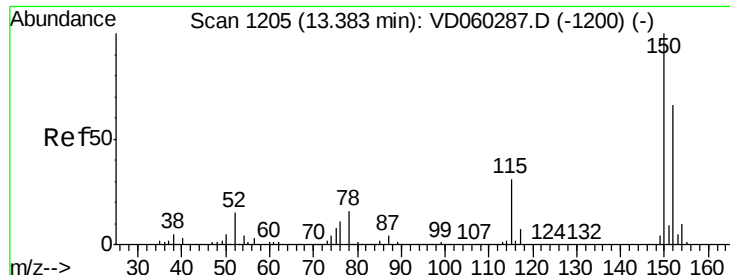
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.29 min Scan# 992  
Delta R.T. -0.01 min  
Lab File: VD060364.D  
Acq: 13 Nov 2018 16:55

Tgt Ion: 117 Resp: 16295  
Ion Ratio Lower Upper  
117 100  
82 51.4 43.7 65.5  
119 30.4 26.1 39.1



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: VD060364.D

Acq: 13 Nov 2018 16:55

Instrument :

MSVOA\_D

ClientSampleId :

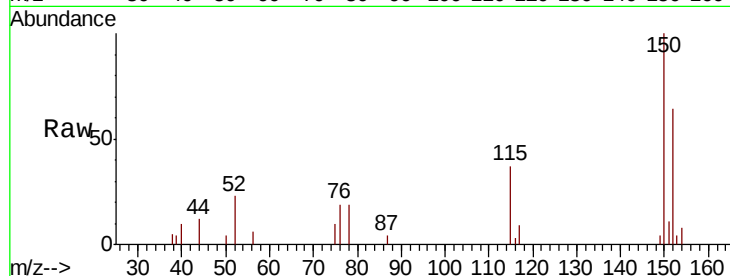
Tot Ion:152 Resp: 7022

Ion Ratio Lower Upper

152 100

115 57.0 24.1 72.3

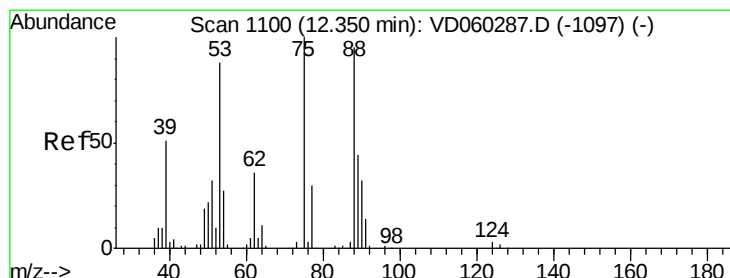
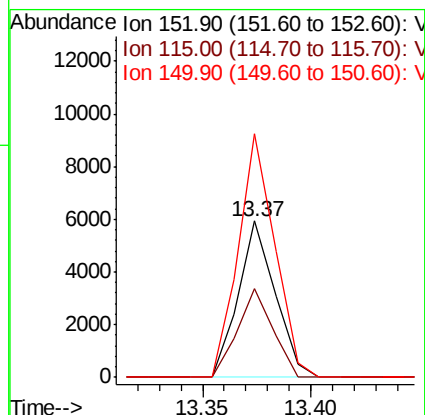
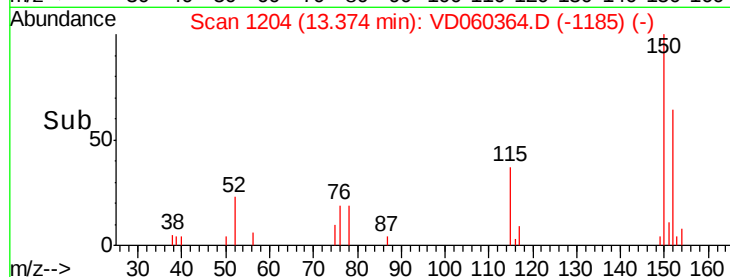
150 155.6 0.0 310.6



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: 88.691 ug/l

RT: 12.43 min Scan# 1108

Delta R.T. 0.08 min

Lab File: VD060364.D

Acq: 13 Nov 2018 16:55

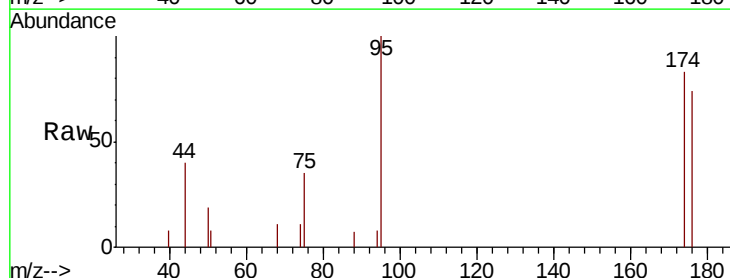
Tgt Ion: 75 Resp: 2121

Ion Ratio Lower Upper

75 100

53 0.0 68.6 103.0#

89 0.0 34.1 51.1#



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

