

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050420\  
 Data File : VY002569.D  
 Acq On : 05 May 2020 03:05  
 Operator : SY/MD  
 Sample : L2475-02  
 Misc : 4.07G/5ML/MSVOA Y/SOIL  
 ALS Vial : 46 Sample Multiplier: 1

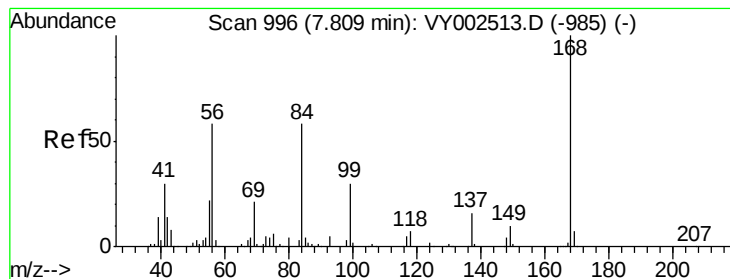
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 FK-GF-03-009-A

Quant Time: May 05 07:19:48 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 2020  
 Response via : Initial Calibration

| Internal Standards             | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|--------------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene          | 7.82  | 168  | 368989   | 50.00  | ug/l    | 0.01     |
| 34) 1,4-Difluorobenzene        | 8.72  | 114  | 596173   | 50.00  | ug/l    | 0.01     |
| 63) Chlorobenzene-d5           | 11.50 | 117  | 531840   | 50.00  | ug/l    | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.44 | 152  | 248615   | 50.00  | ug/l    | 0.00     |
| System Monitoring Compounds    |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4      | 8.17  | 65   | 173668   | 55.98  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 111.96% |          |
| 35) Dibromofluoromethane       | 7.75  | 113  | 179687   | 52.70  | ug/l    | 0.01     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 105.40% |          |
| 50) Toluene-d8                 | 10.20 | 98   | 701016   | 52.65  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 105.30% |          |
| 62) 4-Bromofluorobenzene       | 12.49 | 95   | 223771   | 49.53  | ug/l    | 0.00     |
| Spiked Amount 50.000           |       |      | Recovery | =      | 99.06%  |          |
| Target Compounds               |       |      |          |        |         |          |
|                                |       |      |          |        | Qvalue  |          |
| 2) Dichlorodifluoromethane     | 1.92  | 85   | 53       | 1.801  | ug/l #  | 43       |
| 16) Acetone                    | 3.98  | 43   | 5417     | 8.460  | ug/l    | 99       |
| 20) Methylene Chloride         | 4.76  | 84   | 15168    | 4.236  | ug/l    | 96       |
| 31) Cyclohexane                | 7.82  | 56   | 6033     | 1.082  | ug/l #  | 1        |
| 36) 1,1-Dichloropropene        | 7.82  | 75   | 23627    | 4.727  | ug/l #  | 49       |
| 38) Carbon Tetrachloride       | 7.82  | 117  | 33149    | 6.075  | ug/l #  | 16       |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 109960   | 49.770 | ug/l #  | 100      |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 109960   | 99.799 | ug/l #  | 15       |

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





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 998

Delta R.T. 0.01 min

Lab File: VY002569.D

Acq: 05 May 2020 03:05

Instrument :

MSVOA\_Y

ClientSampleId :

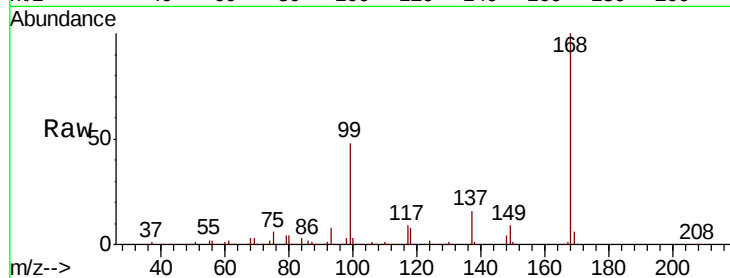
FK-GF-03-009-A

Tot Ion:168 Resp: 368989

Ion Ratio Lower Upper

168 100

99 48.0 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002513.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002513.D (-985) (-)

7.82

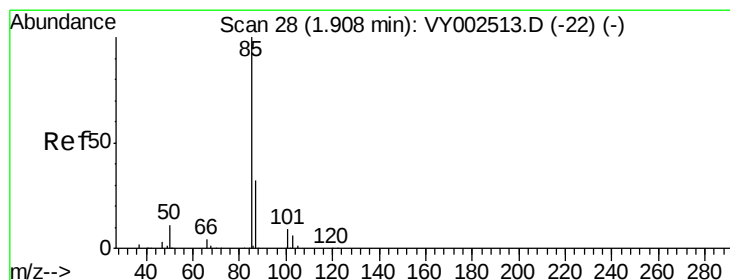
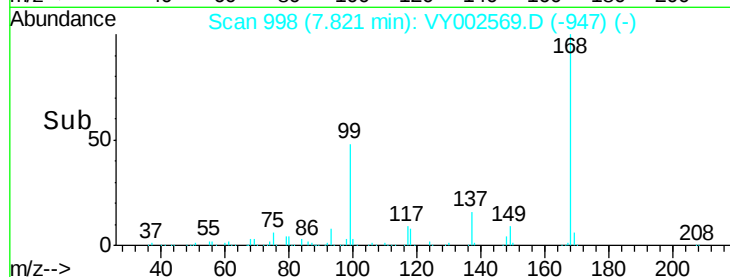
150000

100000

50000

0

Time--> 7.70 7.80 7.90



#2

Dichlorodifluoromethane

Concen: 1.801 ug/l

RT: 1.92 min Scan# 30

Delta R.T. 0.01 min

Lab File: VY002569.D

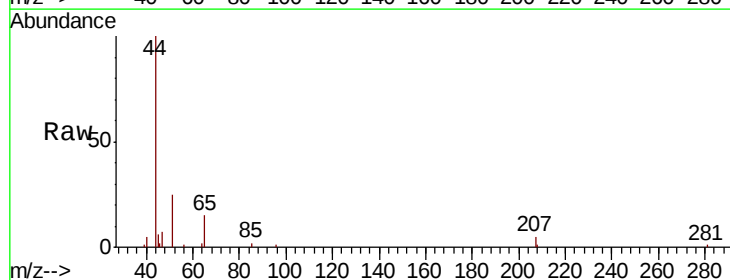
Acq: 05 May 2020 03:05

Tgt Ion: 85 Resp: 53

Ion Ratio Lower Upper

85 100

87 0.0 15.8 47.4#



Abundance Ion 84.90 (84.60 to 85.60): VY002513.D (-22) (-)

Ion 86.90 (86.60 to 87.60): VY002513.D (-22) (-)

1.92

100

80

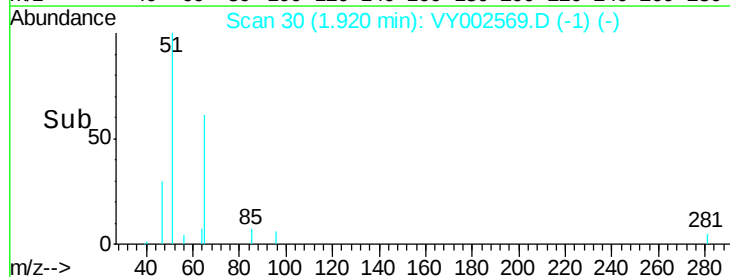
60

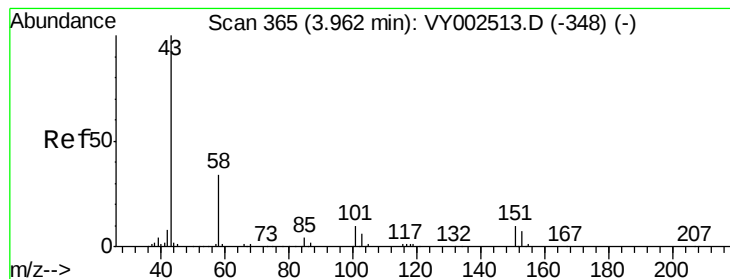
40

20

0

Time--> 1.90 1.92 1.94





#16

Acetone

Concen: 8.460 ug/l

RT: 3.98 min Scan# 368

Delta R.T. 0.02 min

Lab File: VY002569.D

Acq: 05 May 2020 03:05

Instrument :

MSVOA\_Y

ClientSampleId :

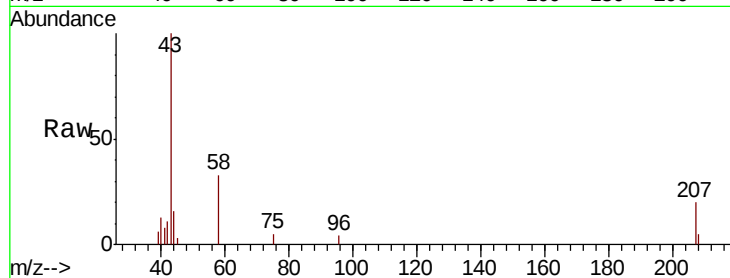
FK-GF-03-009-A

Tot Ion: 43 Resp: 5417

Ion Ratio Lower Upper

43 100

58 33.2 26.9 40.3



Abundance Ion 43.00 (42.70 to 43.70): VY002569.D (-316) (-)

Ion 58.00 (57.70 to 58.70): VY002569.D (-316) (-)

3.98

2000

1500

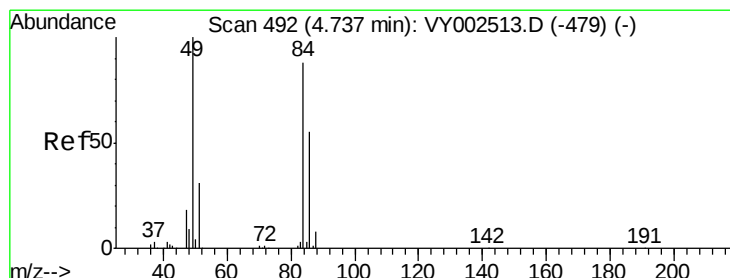
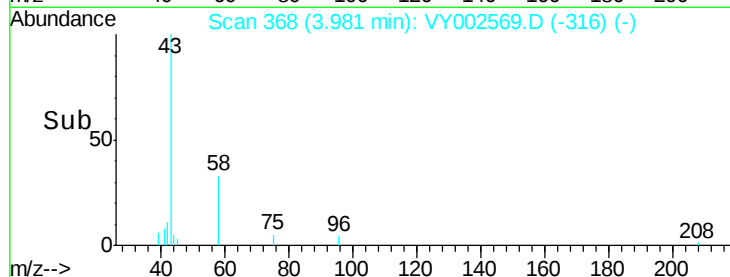
1000

500

0

3.90 3.95 4.00 4.05 4.10

Time-->



#20

Methylene Chloride

Concen: 4.236 ug/l

RT: 4.76 min Scan# 496

Delta R.T. 0.02 min

Lab File: VY002569.D

Acq: 05 May 2020 03:05

Tgt Ion: 84 Resp: 15168

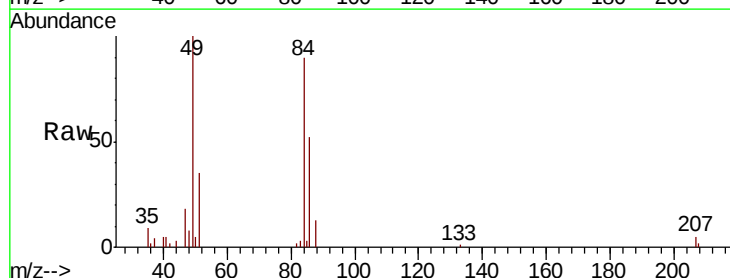
Ion Ratio Lower Upper

84 100

49 111.0 90.5 135.7

51 38.6 28.3 42.5

86 57.2 49.9 74.9



Abundance Ion 83.90 (83.60 to 84.60): VY002569.D (-443) (-)

Ion 48.90 (48.60 to 49.60): VY002569.D (-443) (-)

Ion 50.90 (50.60 to 51.60): VY002569.D (-443) (-)

Ion 85.90 (85.60 to 86.60): VY002569.D (-443) (-)

8000

6000

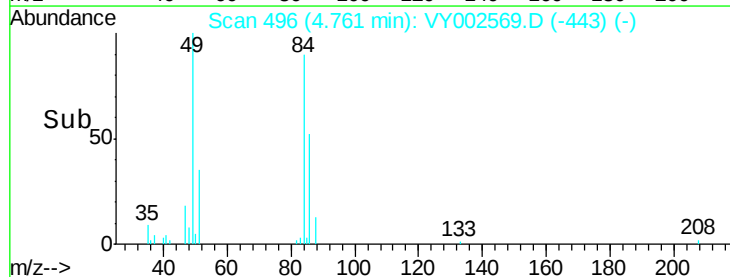
4000

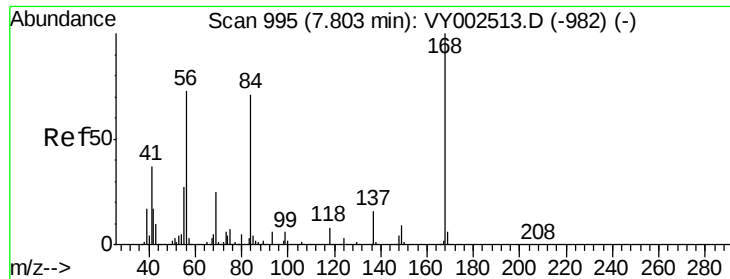
2000

0

4.60 4.70 4.80 4.90

Time-->

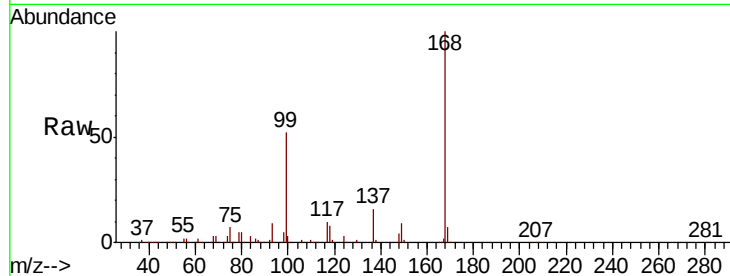




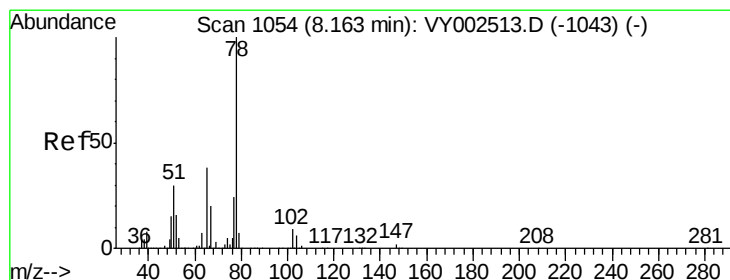
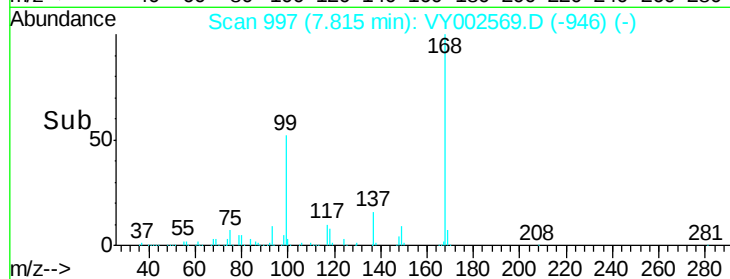
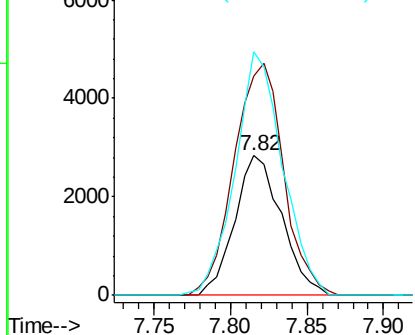
#31  
Cyclohexane  
Concen: 1.082 ug/l  
RT: 7.82 min Scan# 997  
Delta R.T. 0.01 min  
Lab File: VY002569.D  
Acq: 05 May 2020 03:05

Instrument :  
MSVOA\_Y  
ClientSampleId :  
FK-GF-03-009-A

Tot Ion: 56 Resp: 6033  
Ion Ratio Lower Upper  
56 100  
69 156.8 27.6 41.4#  
84 174.4 77.7 116.5#

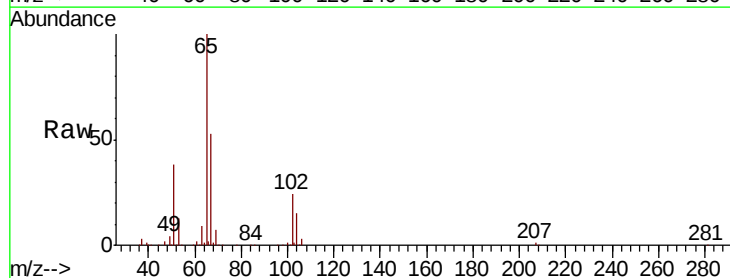


Abundance Ion 56.00 (55.70 to 56.70): VY0  
Ion 69.00 (68.70 to 69.70): VY0  
Ion 84.00 (83.70 to 84.70): VY0

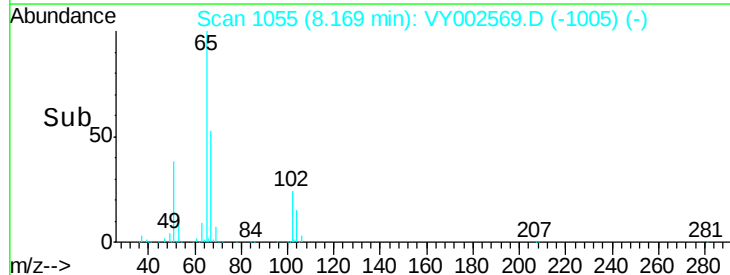
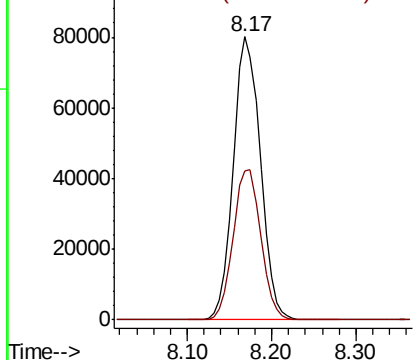


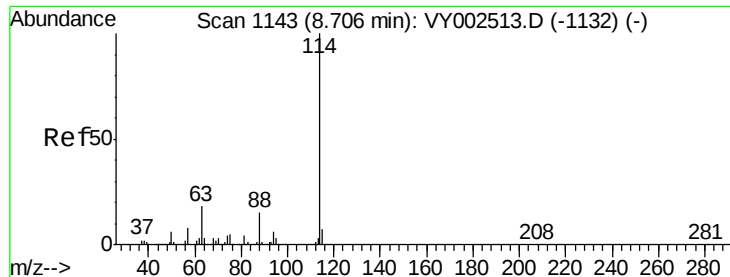
#33  
1,2-Dichloroethane-d4  
Concen: 55.976 ug/l  
RT: 8.17 min Scan# 1055  
Delta R.T. 0.01 min  
Lab File: VY002569.D  
Acq: 05 May 2020 03:05

Tgt Ion: 65 Resp: 173668  
Ion Ratio Lower Upper  
65 100  
67 54.2 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VY0  
Ion 66.90 (66.60 to 67.60): VY0

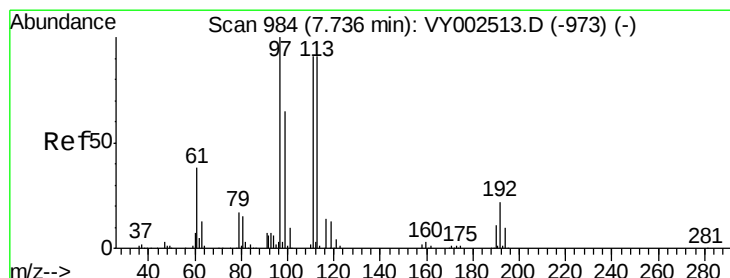
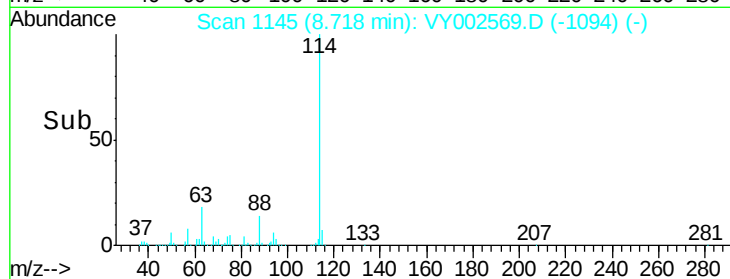
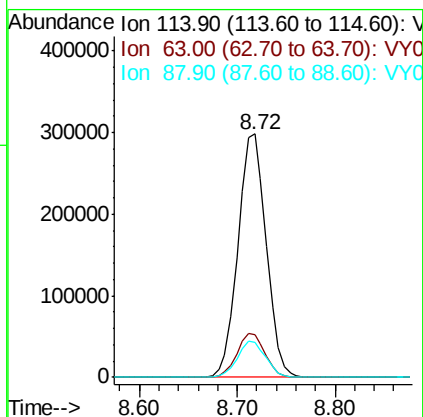
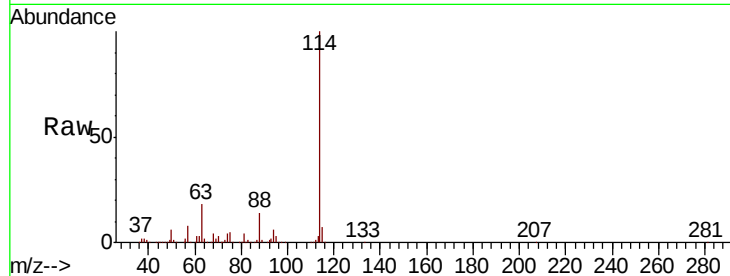




#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.72 min Scan# 1145  
 Delta R.T. 0.01 min  
 Lab File: VY002569.D  
 Acq: 05 May 2020 03:05

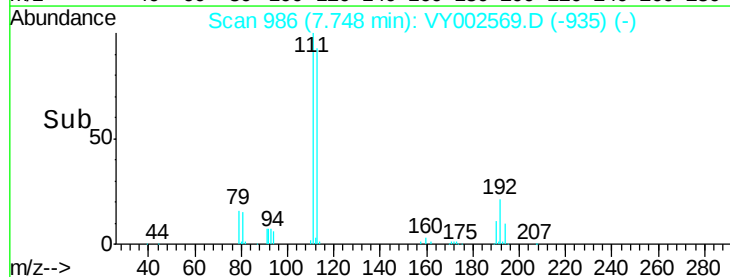
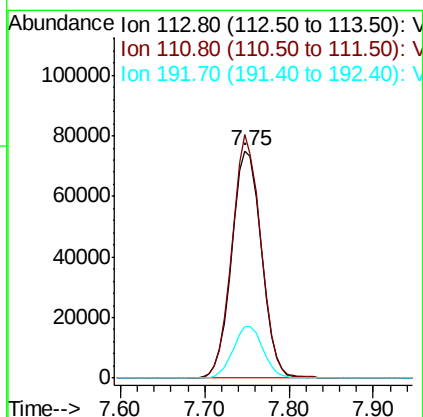
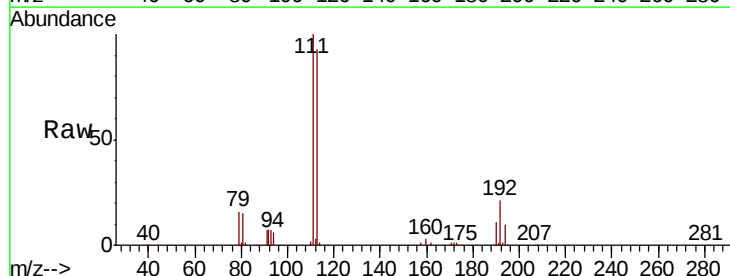
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 FK-GF-03-009-A

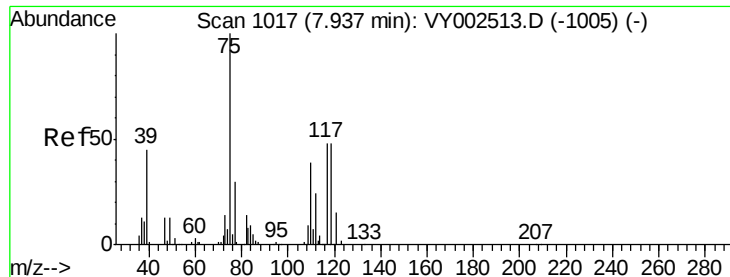
|             |       |        |
|-------------|-------|--------|
| Tot Ion:114 | Resp: | 596173 |
| Ion Ratio   | Lower | Upper  |
| 114 100     |       |        |
| 63 17.6     | 0.0   | 36.4   |
| 88 14.3     | 0.0   | 29.6   |



#35  
 Dibromofluoromethane  
 Concen: 52.701 ug/l  
 RT: 7.75 min Scan# 986  
 Delta R.T. 0.01 min  
 Lab File: VY002569.D  
 Acq: 05 May 2020 03:05

|             |       |        |
|-------------|-------|--------|
| Tgt Ion:113 | Resp: | 179687 |
| Ion Ratio   | Lower | Upper  |
| 113 100     |       |        |
| 111 103.3   | 81.8  | 122.6  |
| 192 22.8    | 18.2  | 27.4   |

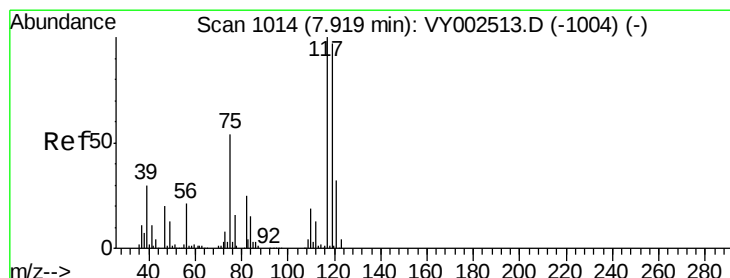
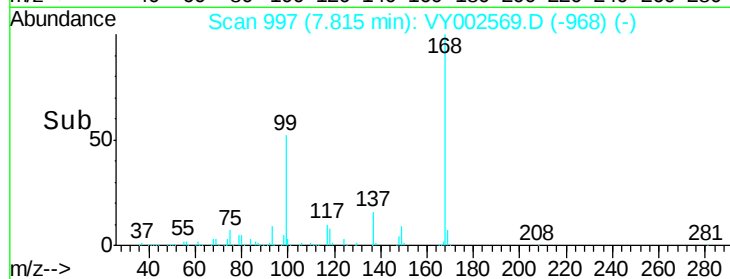
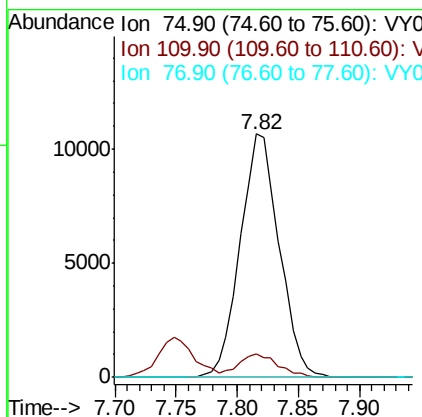
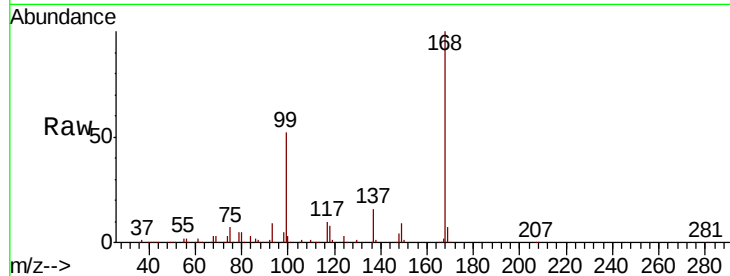




#36  
 1,1-Dichloropropene  
 Concen: 4.727 ug/l  
 RT: 7.82 min Scan# 997  
 Delta R.T. -0.12 min  
 Lab File: VY002569.D  
 Acq: 05 May 2020 03:05

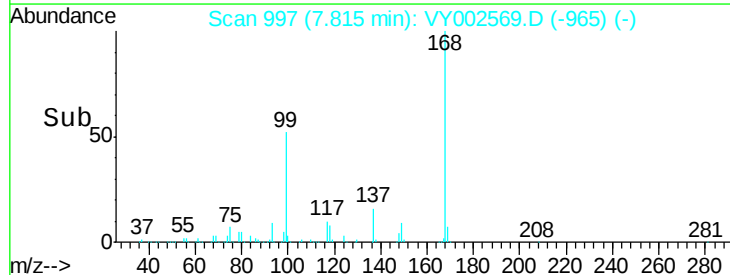
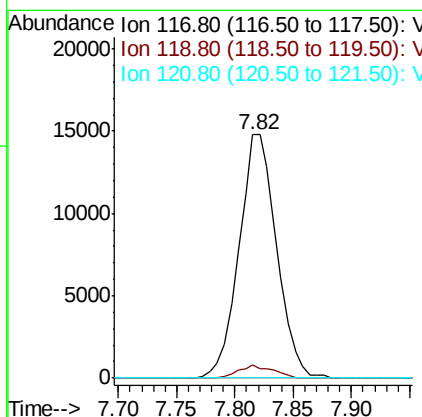
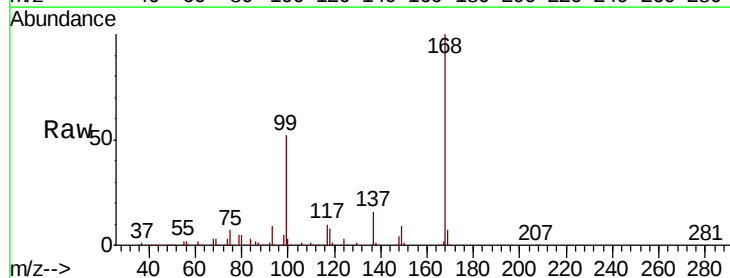
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 FK-GF-03-009-A

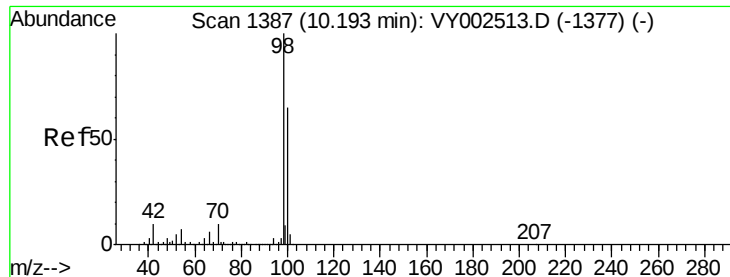
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 9.9   | 19.1  | 57.3# |
| 77      | 0.0   | 24.6  | 37.0# |



#38  
 Carbon Tetrachloride  
 Concen: 6.075 ug/l  
 RT: 7.82 min Scan# 997  
 Delta R.T. -0.10 min  
 Lab File: VY002569.D  
 Acq: 05 May 2020 03:05

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 5.4   | 77.1  | 115.7# |
| 121     | 0.0   | 25.2  | 37.8#  |





#50

Toluene-d8

Concen: 52.650 ug/l

RT: 10.20 min Scan# 1388

Delta R.T. 0.01 min

Lab File: VY002569.D

Acq: 05 May 2020 03:05

Instrument :

MSVOA\_Y

ClientSampleId :

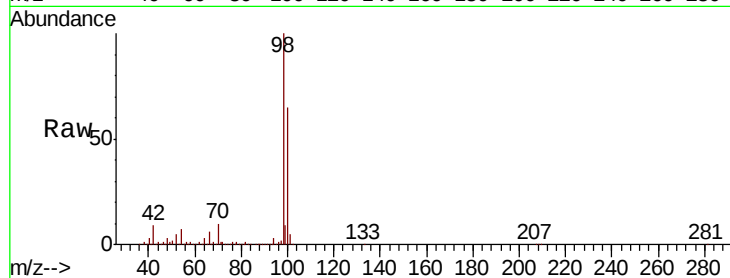
FK-GF-03-009-A

Tot Ion: 98 Resp: 701016

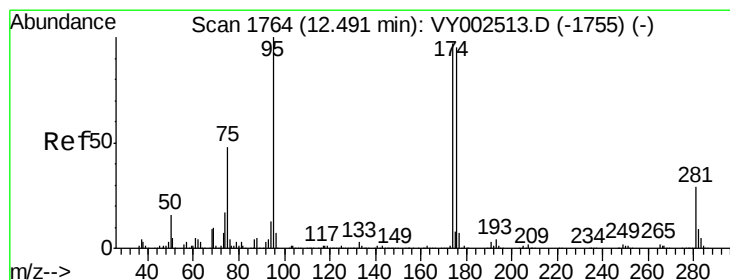
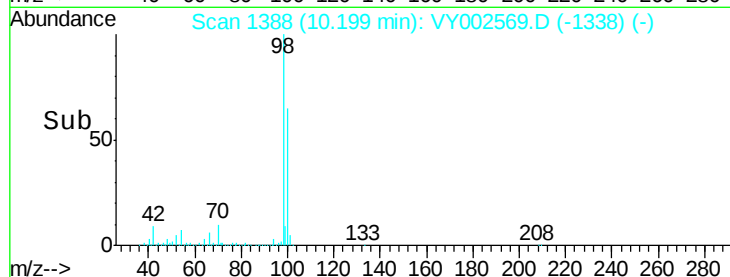
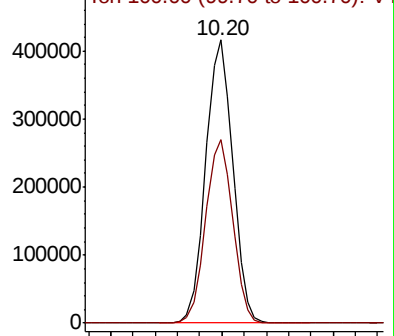
Ion Ratio Lower Upper

98 100

100 65.0 52.2 78.2



Abundance Ion 98.00 (97.70 to 98.70): VY002513.D (-1377) (-)



#62

4-Bromofluorobenzene

Concen: 49.529 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VY002569.D

Acq: 05 May 2020 03:05

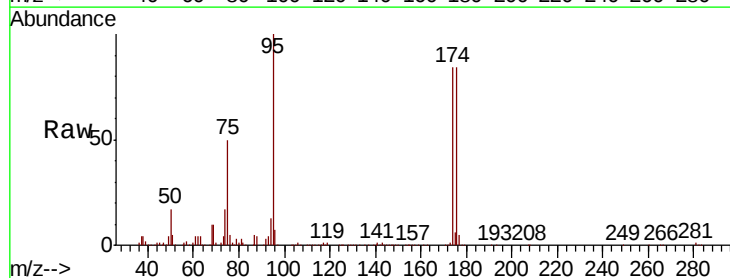
Tgt Ion: 95 Resp: 223771

Ion Ratio Lower Upper

95 100

174 91.6 0.0 188.8

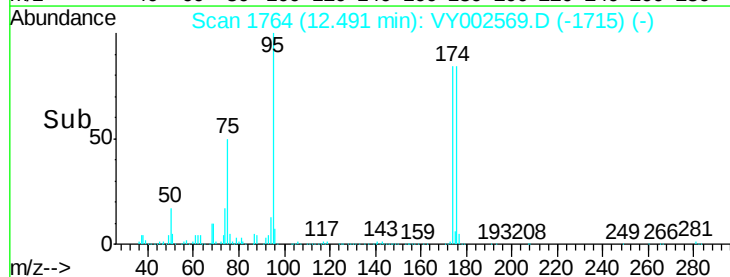
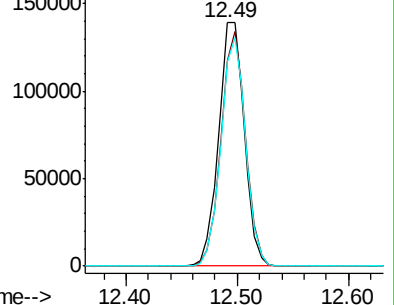
176 89.7 0.0 183.2

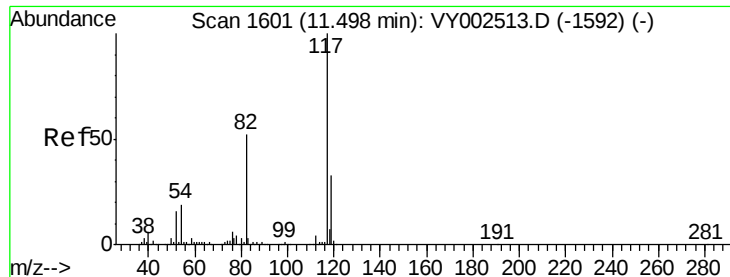


Abundance Ion 94.90 (94.60 to 95.60): VY002513.D (-1755) (-)

Ion 173.80 (173.50 to 174.50): VY002513.D (-1755) (-)

Ion 175.80 (175.50 to 176.50): VY002513.D (-1755) (-)

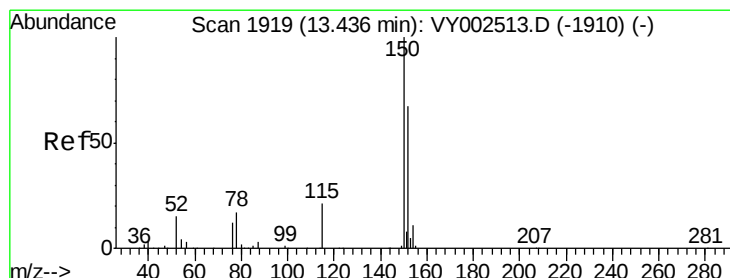
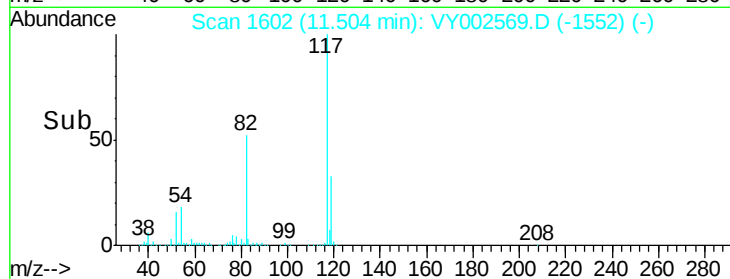
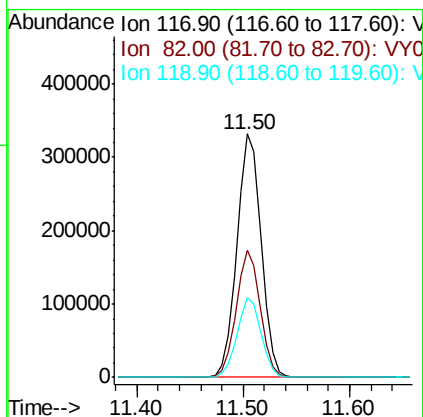
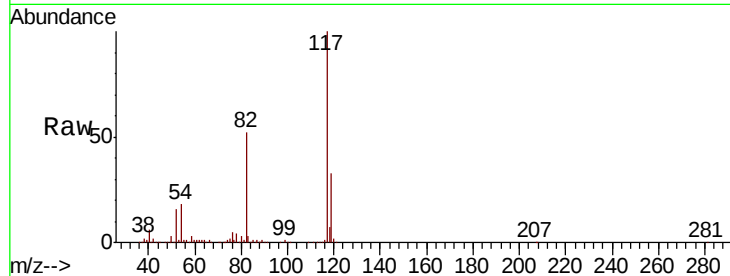




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1602  
Delta R.T. 0.01 min  
Lab File: VY002569.D  
Acq: 05 May 2020 03:05

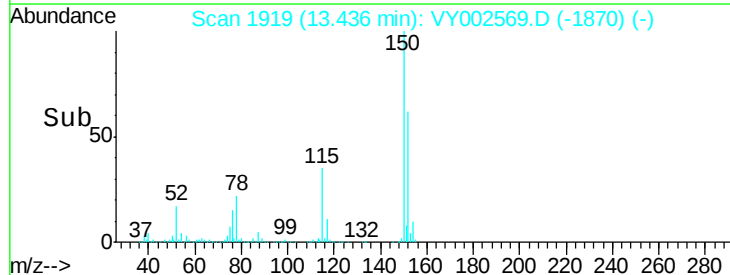
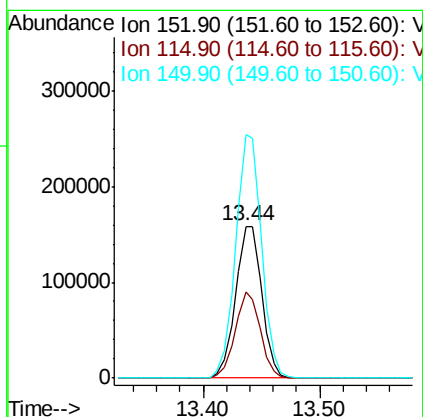
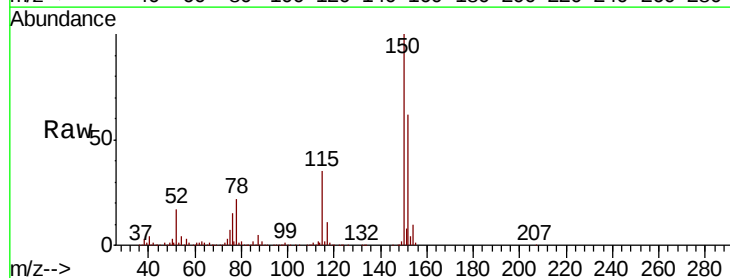
Instrument :  
MSVOA\_Y  
ClientSampleId :  
FK-GF-03-009-A

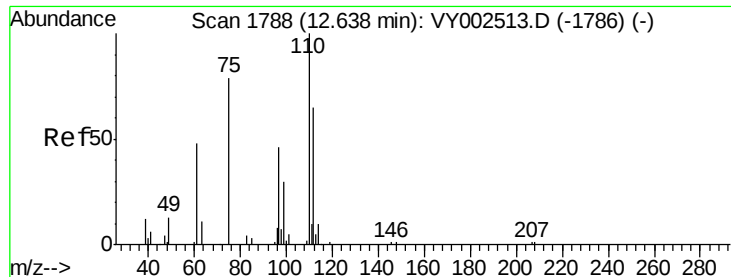
Tot Ion:117 Resp: 531840  
Ion Ratio Lower Upper  
117 100  
82 52.2 41.3 61.9  
119 32.8 26.0 39.0



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.44 min Scan# 1919  
Delta R.T. -0.00 min  
Lab File: VY002569.D  
Acq: 05 May 2020 03:05

Tgt Ion:152 Resp: 248615  
Ion Ratio Lower Upper  
152 100  
115 54.1 27.5 82.4  
150 158.0 0.0 346.4





#76

1,2,3-Trichloropropane

Concen: 49.770 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002569.D

Acq: 05 May 2020 03:05

Instrument :

MSVOA\_Y

ClientSampleId :

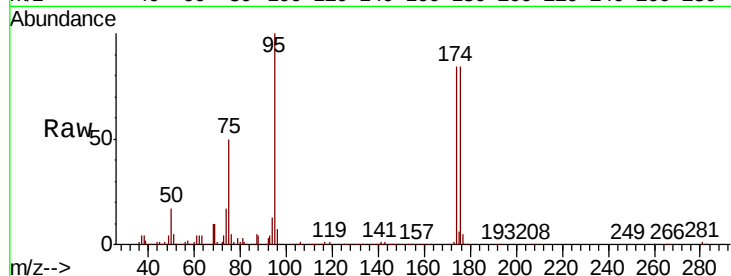
FK-GF-03-009-A

Tot Ion: 75 Resp: 109960

Ion Ratio Lower Upper

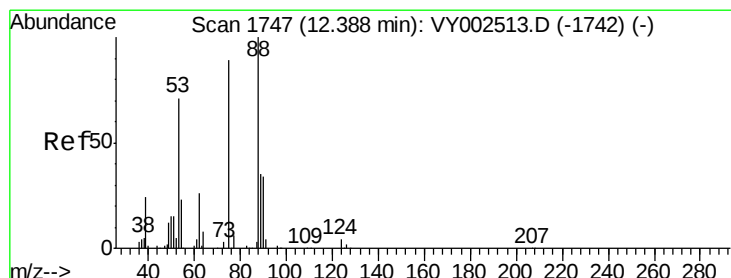
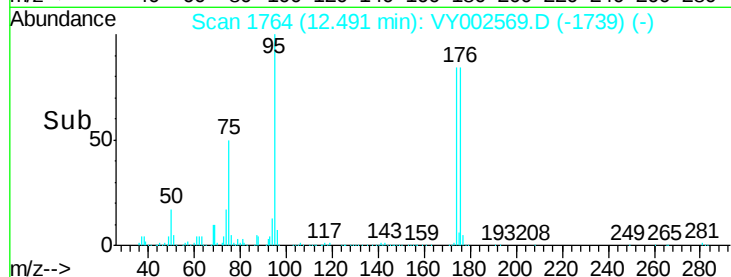
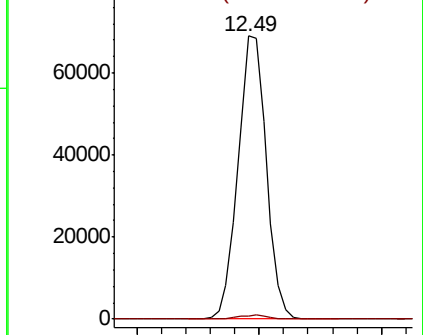
75 100

77 1.4 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 77.00 (76.70 to 77.70): VY0



#81

trans-1,4-Dichloro-2-butene

Concen: 99.799 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002569.D

Acq: 05 May 2020 03:05

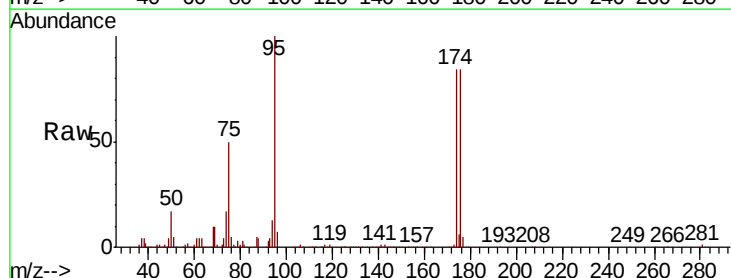
Tgt Ion: 75 Resp: 109960

Ion Ratio Lower Upper

75 100

53 0.0 67.4 101.0#

89 0.0 37.4 56.0#



Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 53.00 (52.70 to 53.70): VY0

Ion 88.90 (88.60 to 89.60): VY0

