

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY030920\  
 Data File : VY001905.D  
 Acq On : 09 Mar 2020 12:25  
 Operator : SY/MD  
 Sample : VY0309SBL01  
 Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0309SBL01

Quant Time: Mar 10 11:52:54 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 04:05:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 154631   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 290406   | 50.00 | ug/l  | -0.01    |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 263790   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 114161   | 50.00 | ug/l  | 0.00     |

|                             |        |     |          |       |         |       |
|-----------------------------|--------|-----|----------|-------|---------|-------|
| System Monitoring Compounds |        |     |          |       |         |       |
| 33) 1,2-Dichloroethane-d4   | 8.15   | 65  | 87171    | 52.81 | ug/l    | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 105.62% |       |
| 35) Dibromofluoromethane    | 7.73   | 113 | 85855    | 54.14 | ug/l    | -0.02 |
| Spiked Amount               | 50.000 |     | Recovery | =     | 108.28% |       |
| 50) Toluene-d8              | 10.19  | 98  | 354551   | 53.02 | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 106.04% |       |
| 62) 4-Bromofluorobenzene    | 12.49  | 95  | 119047   | 51.20 | ug/l    | 0.00  |
| Spiked Amount               | 50.000 |     | Recovery | =     | 102.40% |       |

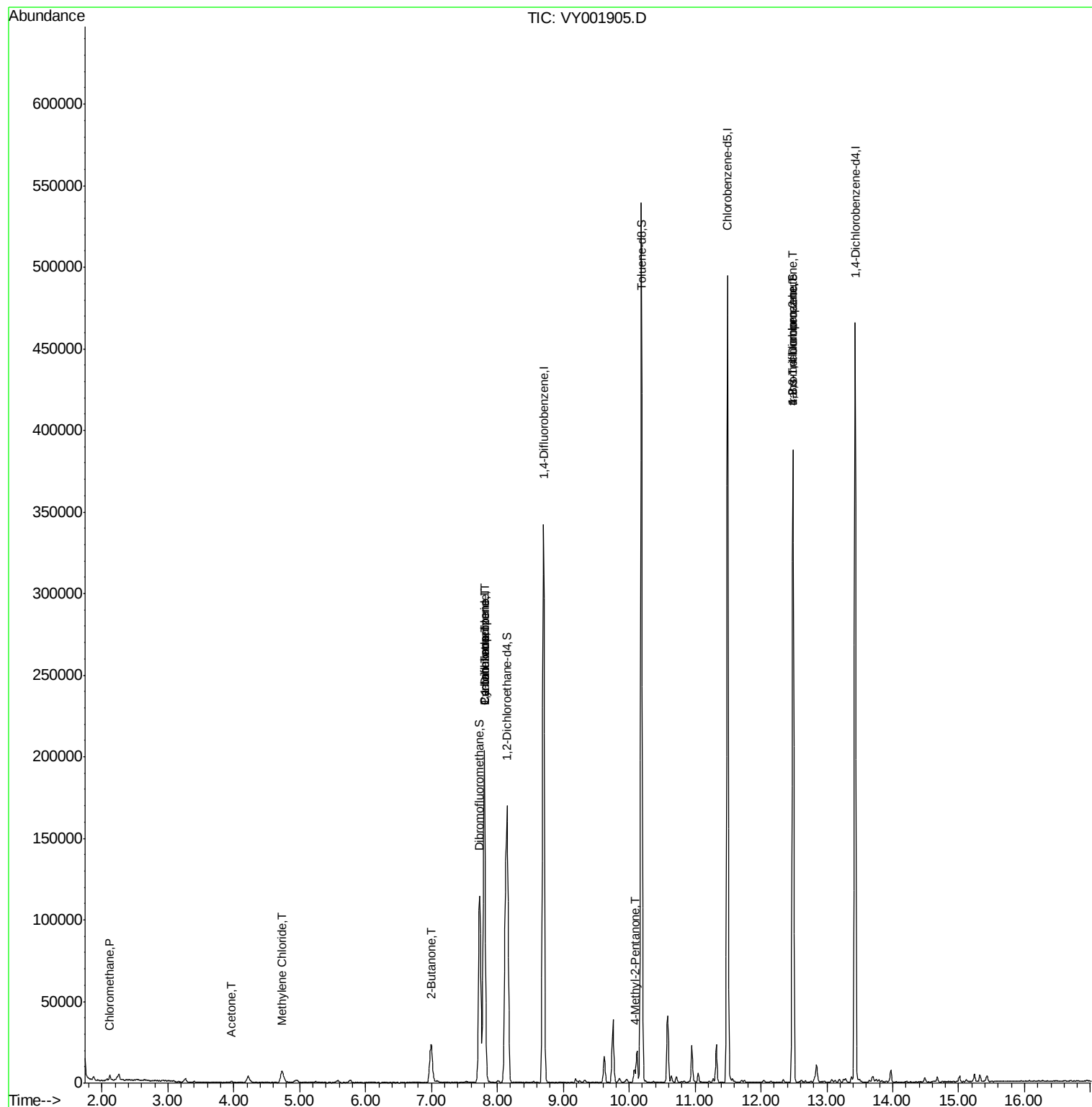
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units | Qvalue |
|--------------------------------|-------|------|----------|-----------|-------|--------|
| 3) Chloromethane               | 2.12  | 50   | 2653     | 1.38      | ug/l  | 93     |
| 5) Bromomethane                | 2.66  | 94   | 262      | Below Cal | #     | 55     |
| 11) Tert butyl alcohol         | 4.94  | 59   | 1300     | Below Cal | #     | 79     |
| 16) Acetone                    | 3.97  | 43   | 1416     | 2.95      | ug/l  | 90     |
| 20) Methylene Chloride         | 4.73  | 84   | 5188     | 2.52      | ug/l  | 97     |
| 25) 2-Butanone                 | 6.99  | 43   | 1644     | 2.25      | ug/l  | # 78   |
| 31) Cyclohexane                | 7.80  | 56   | 3813     | 1.05      | ug/l  | # 1    |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 13483    | 4.82      | ug/l  | # 49   |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 15565    | 6.52      | ug/l  | # 17   |
| 51) 4-Methyl-2-Pentanone       | 10.08 | 43   | 5851     | 3.69      | ug/l  | 95     |
| 58) 2-Chloroethyl Vinyl ether  | 9.79  | 63   | 25       | Below Cal | #     | 48     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 59775    | 44.13     | ug/l  | # 100  |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 59775    | 89.14     | ug/l  | # 17   |

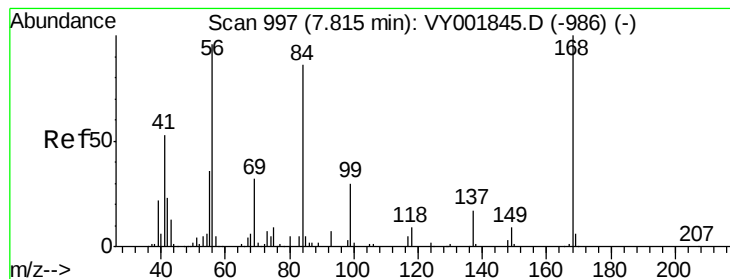
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\DATA\VY030920\  
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Instrument :  
MSVOA\_Y  
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Quant Time: Mar 10 11:52:54 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 05 04:05:33 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.01 min

Lab File: VY001905.D

Acq: 09 Mar 2020 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

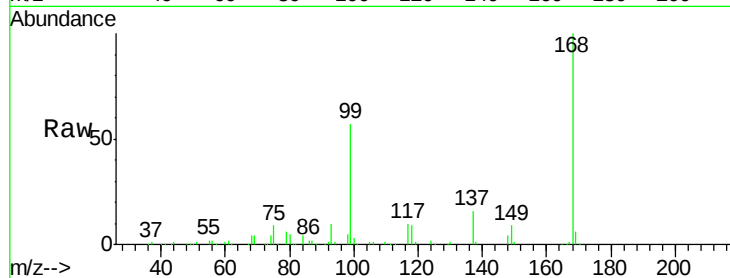
VY0309SBL01

Tgt Ion:168 Resp: 154631

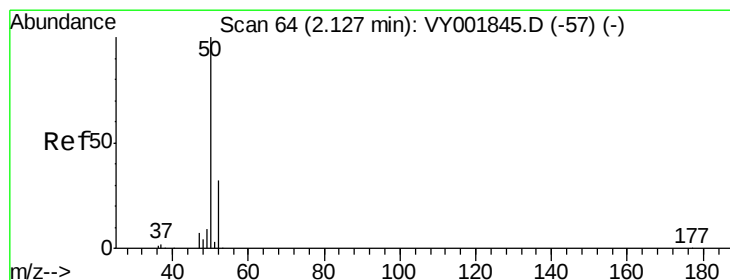
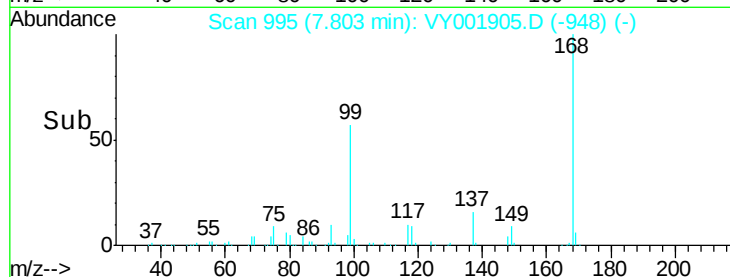
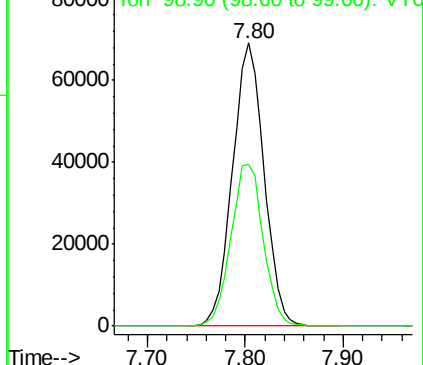
Ion Ratio Lower Upper

168 100

99 57.3 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)



#3

Chloromethane

Concen: 1.38 ug/l

RT: 2.12 min Scan# 62

Delta R.T. -0.01 min

Lab File: VY001905.D

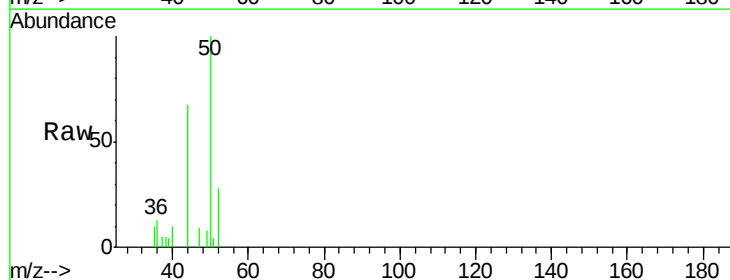
Acq: 09 Mar 2020 12:25

Tgt Ion: 50 Resp: 2653

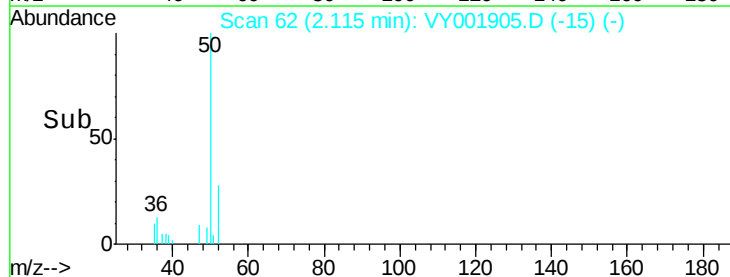
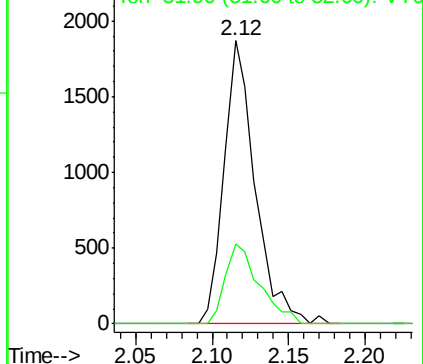
Ion Ratio Lower Upper

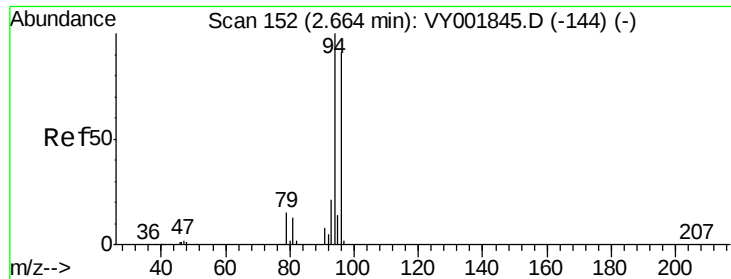
50 100

52 28.4 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VY001845.D (-57) (-)





#5

Bromomethane

Concen: Below Cal

RT: 2.66 min Scan# 151

Delta R.T. -0.01 min

Lab File: VY001905.D

Acq: 09 Mar 2020 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

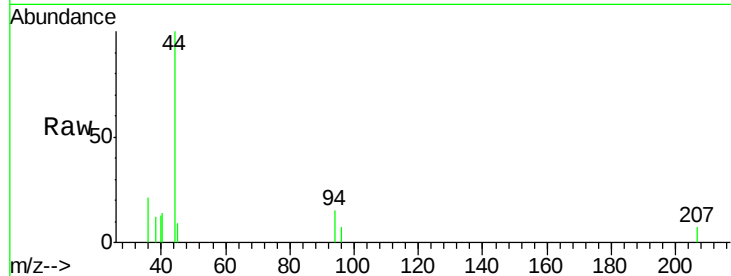
VY0309SBL01

Tgt Ion: 94 Resp: 262

Ion Ratio Lower Upper

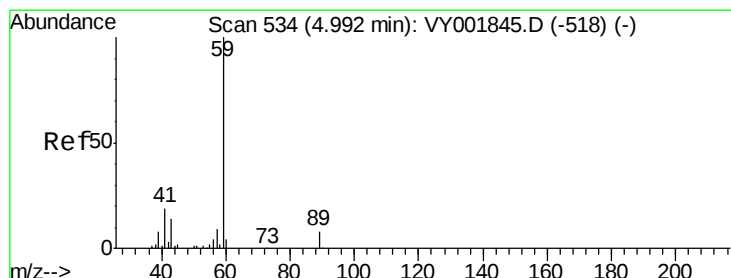
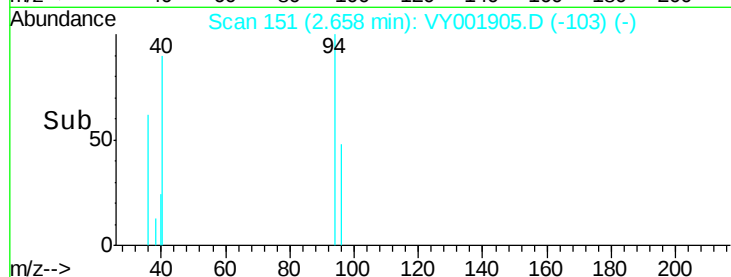
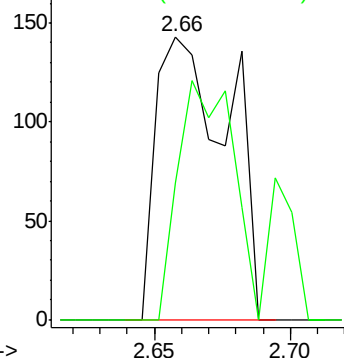
94 100

96 48.3 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#11

Tert butyl alcohol

Concen: Below Cal

RT: 4.94 min Scan# 525

Delta R.T. -0.05 min

Lab File: VY001905.D

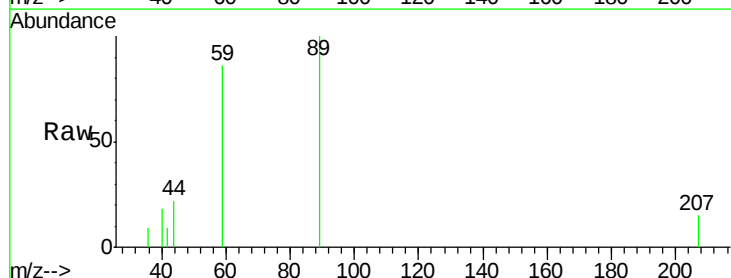
Acq: 09 Mar 2020 12:25

Tgt Ion: 59 Resp: 1300

Ion Ratio Lower Upper

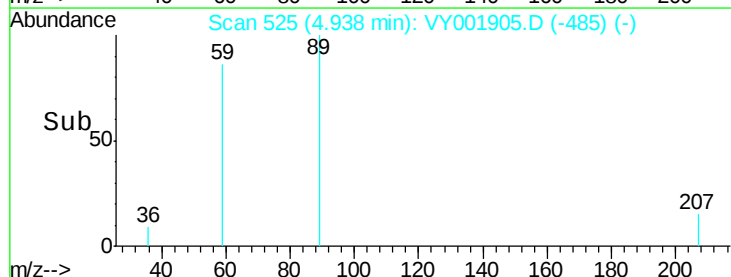
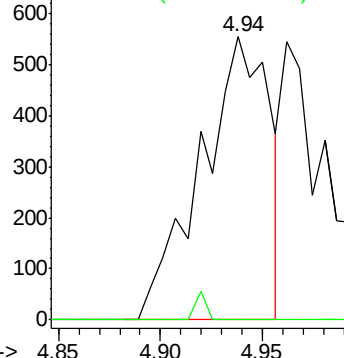
59 100

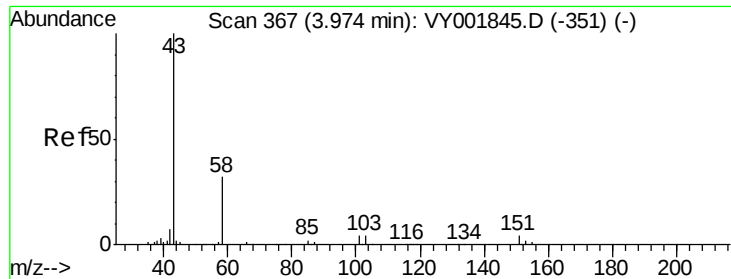
57 1.5 7.4 11.2#



Abundance Ion 59.00 (58.70 to 59.70): VY0

Ion 57.00 (56.70 to 57.70): VY0





#16

Acetone

Concen: 2.95 ug/l

RT: 3.97 min Scan# 366

Delta R.T. -0.01 min

Lab File: VY001905.D

Acq: 09 Mar 2020 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

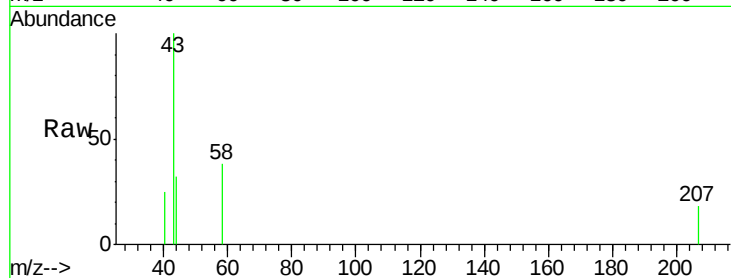
VY0309SBL01

Tgt Ion: 43 Resp: 1416

Ion Ratio Lower Upper

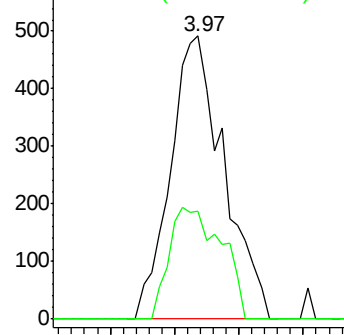
43 100

58 38.0 25.9 38.9

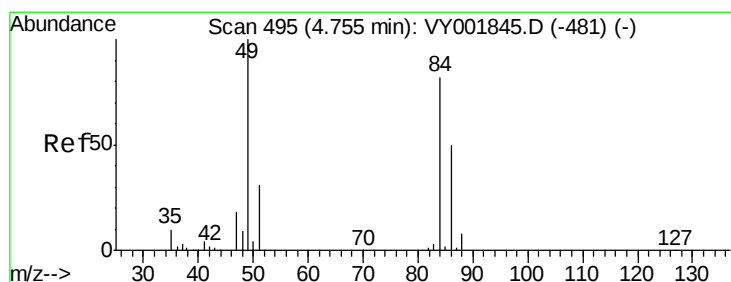
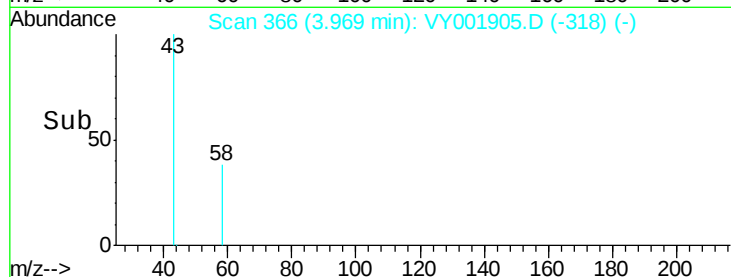


Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



Time-->



#20

Methylene Chloride

Concen: 2.52 ug/l

RT: 4.73 min Scan# 491

Delta R.T. -0.02 min

Lab File: VY001905.D

Acq: 09 Mar 2020 12:25

Tgt Ion: 84 Resp: 5188

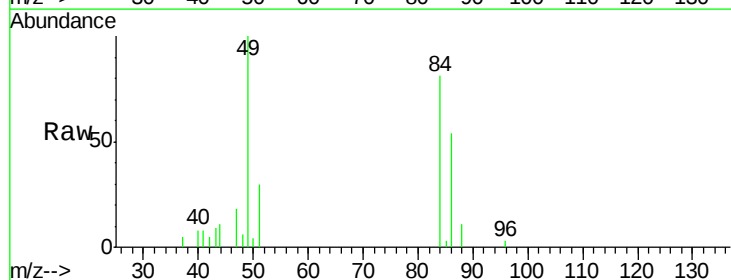
Ion Ratio Lower Upper

84 100

49 123.2 98.2 147.2

51 36.4 30.2 45.2

86 67.0 48.9 73.3

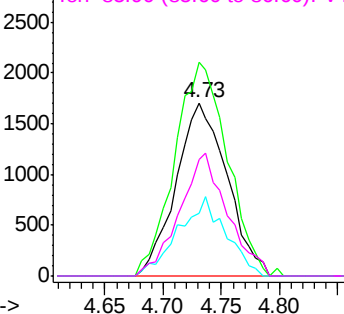


Abundance Ion 83.90 (83.60 to 84.60): VY0

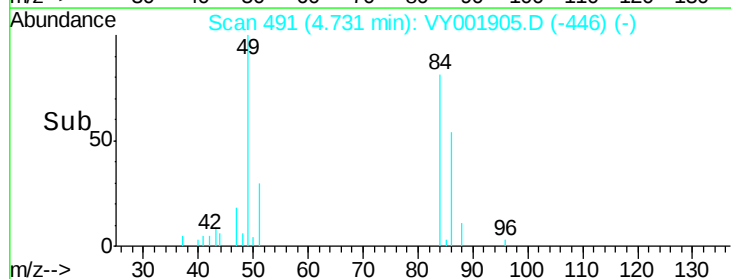
Ion 48.90 (48.60 to 49.60): VY0

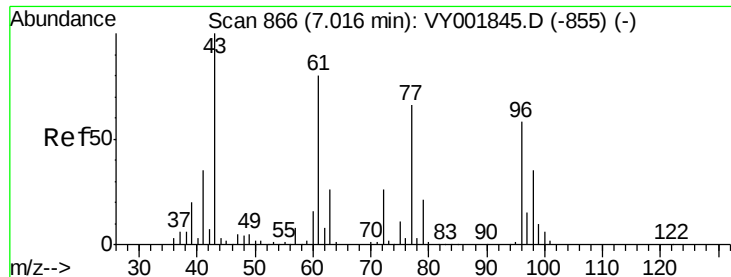
Ion 50.90 (50.60 to 51.60): VY0

Ion 85.90 (85.60 to 86.60): VY0



Time-->

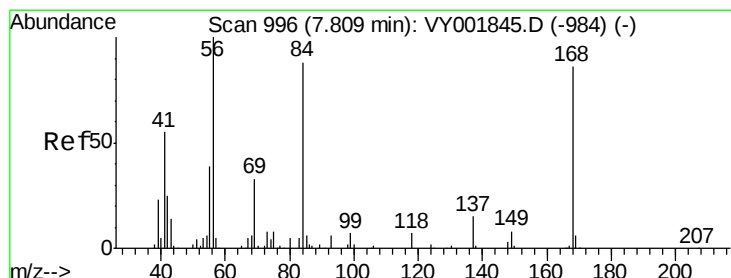
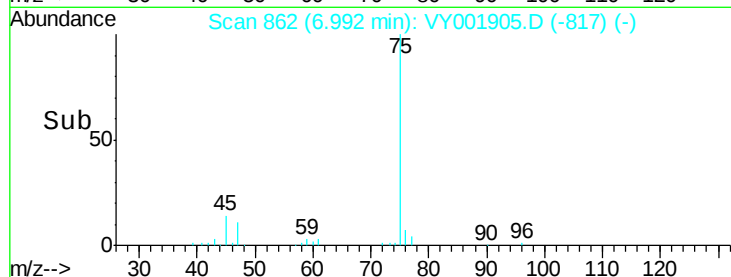
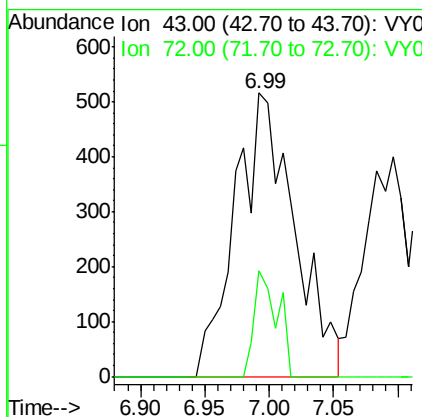
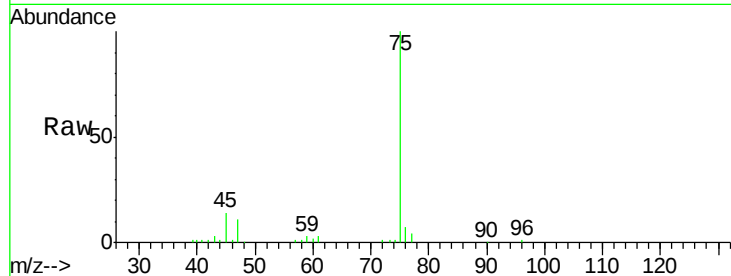




#25  
2-Butanone  
Concen: 2.25 ug/l  
RT: 6.99 min Scan# 862  
Delta R.T. -0.02 min  
Lab File: VY001905.D  
Acq: 09 Mar 2020 12:25

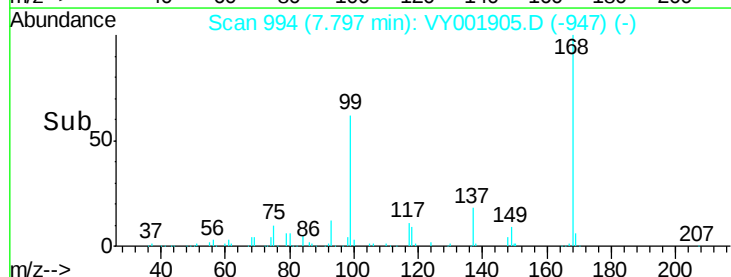
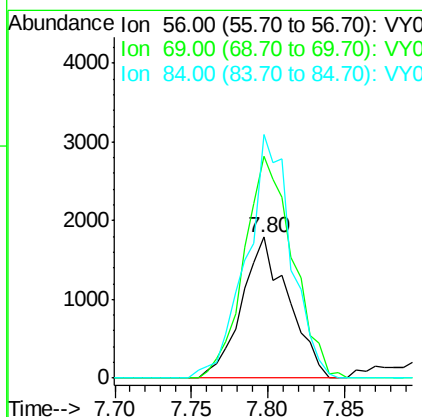
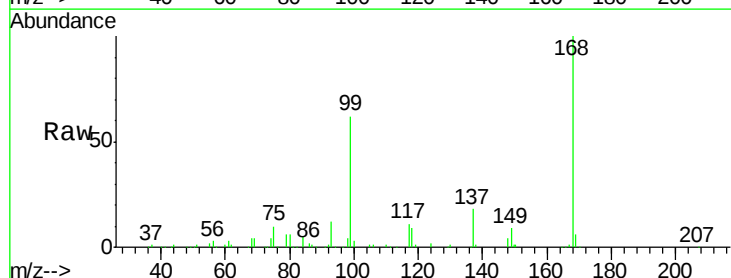
Instrument :  
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ClientSampleId :  
VY0309SBL01

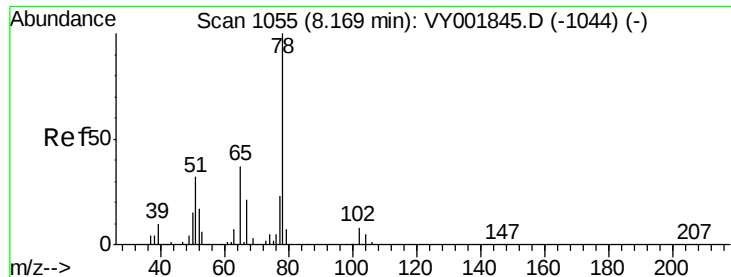
Tgt Ion: 43 Resp: 1644  
Ion Ratio Lower Upper  
43 100  
72 37.4 20.9 31.3#



#31  
Cyclohexane  
Concen: 1.05 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.01 min  
Lab File: VY001905.D  
Acq: 09 Mar 2020 12:25

Tgt Ion: 56 Resp: 3813  
Ion Ratio Lower Upper  
56 100  
69 157.6 26.7 40.1#  
84 172.6 70.4 105.6#





#33

1,2-Dichloroethane-d4

Concen: 52.81 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.02 min

Lab File: VY001905.D

Acq: 09 Mar 2020 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

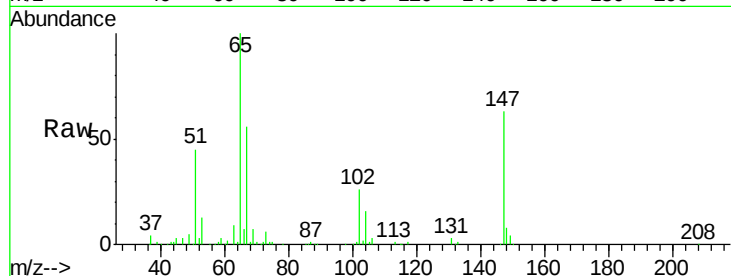
VY0309SBL01

Tgt Ion: 65 Resp: 87171

Ion Ratio Lower Upper

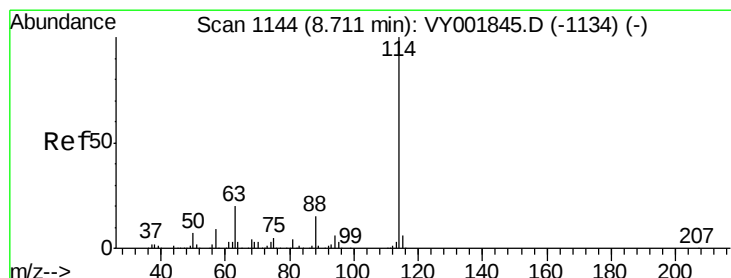
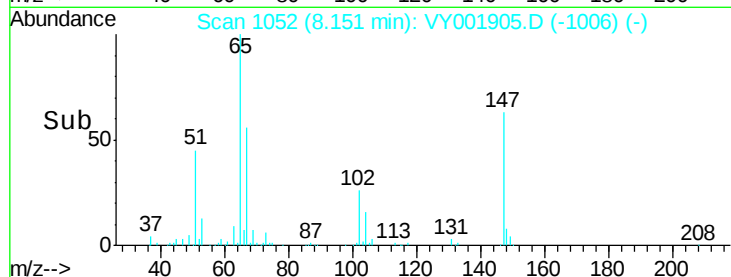
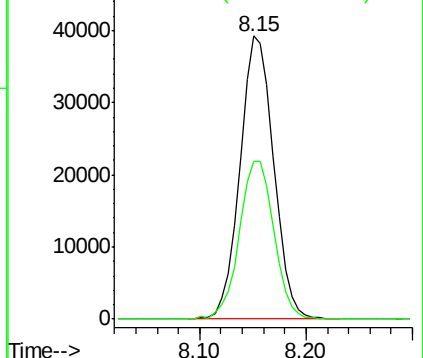
65 100

67 57.5 0.0 110.8



Abundance Ion 64.90 (64.60 to 65.60): VY0

Ion 66.90 (66.60 to 67.60): VY0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.70 min Scan# 1142

Delta R.T. -0.01 min

Lab File: VY001905.D

Acq: 09 Mar 2020 12:25

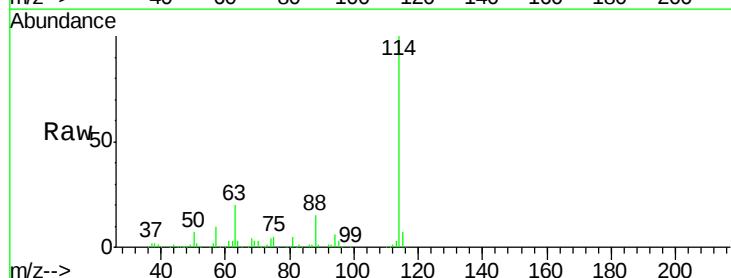
Tgt Ion: 114 Resp: 290406

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.4

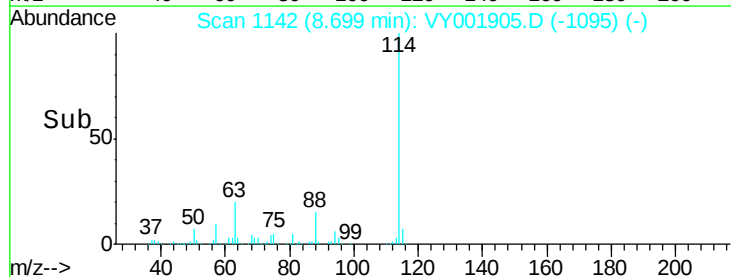
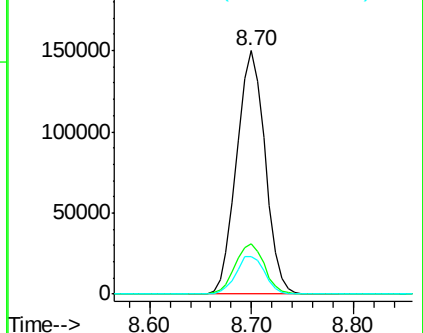
88 15.2 0.0 30.4

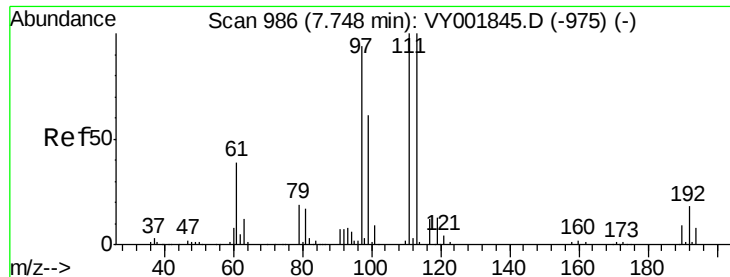


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

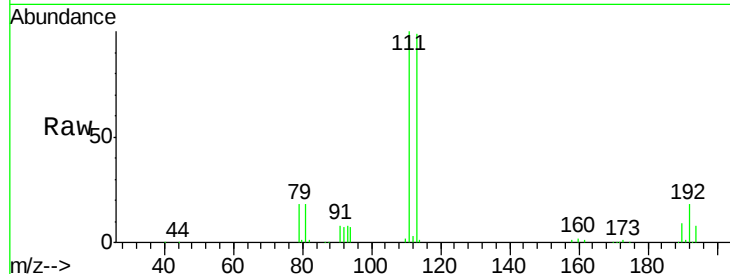




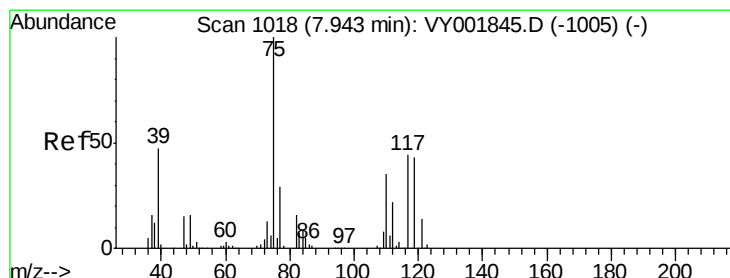
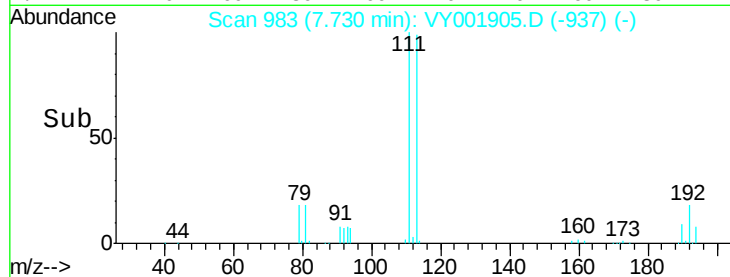
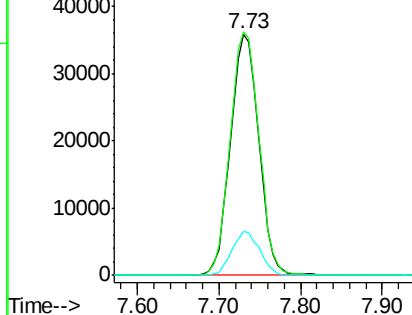
#35  
Dibromofluoromethane  
Concen: 54.14 ug/l  
RT: 7.73 min Scan# 983  
Delta R.T. -0.02 min  
Lab File: VY001905.D  
Acq: 09 Mar 2020 12:25

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0309SBL01

Tgt Ion:113 Resp: 85855  
Ion Ratio Lower Upper  
113 100  
111 102.5 81.8 122.8  
192 17.8 14.2 21.2

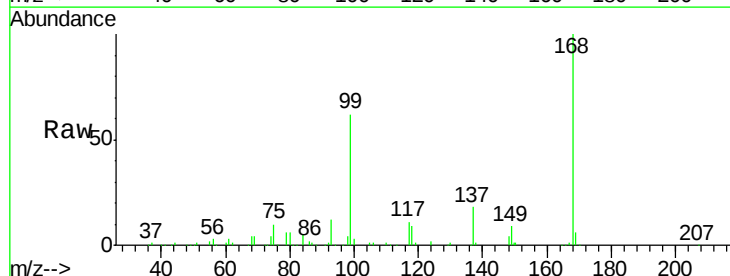


Abundance Ion 112.80 (112.50 to 113.50): V  
Ion 110.80 (110.50 to 111.50): V  
Ion 191.70 (191.40 to 192.40): V

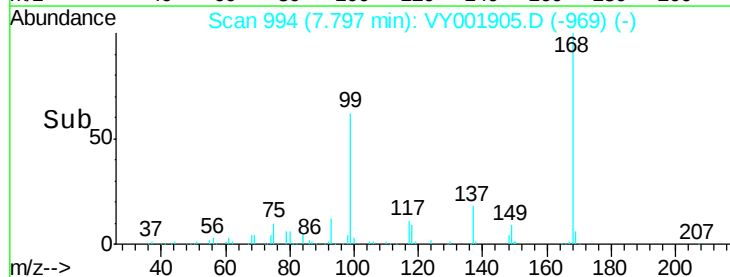
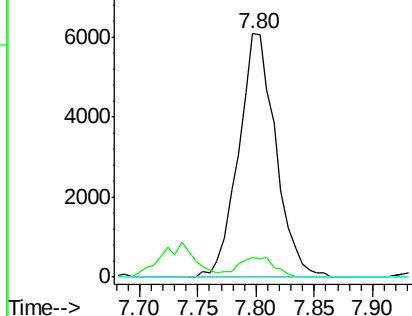


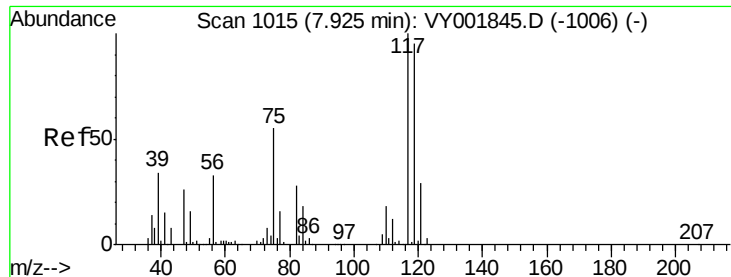
#36  
1,1-Dichloropropene  
Concen: 4.82 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.15 min  
Lab File: VY001905.D  
Acq: 09 Mar 2020 12:25

Tgt Ion: 75 Resp: 13483  
Ion Ratio Lower Upper  
75 100  
110 8.1 17.4 52.2#  
77 0.0 24.2 36.2#



Abundance Ion 74.90 (74.60 to 75.60): VY0  
Ion 109.90 (109.60 to 110.60): V  
Ion 76.90 (76.60 to 77.60): VY0





#38

Carbon Tetrachloride

Concen: 6.52 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.12 min

Lab File: VY001905.D

Acq: 09 Mar 2020 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

VY0309SBL01

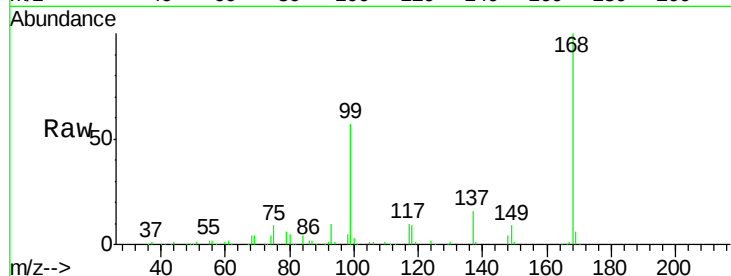
Tgt Ion: 117 Resp: 15565

Ion Ratio Lower Upper

117 100

119 6.0 76.3 114.5#

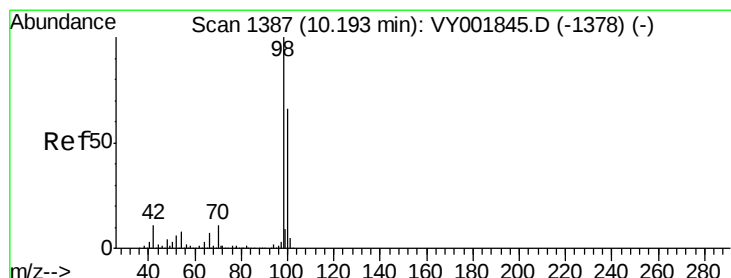
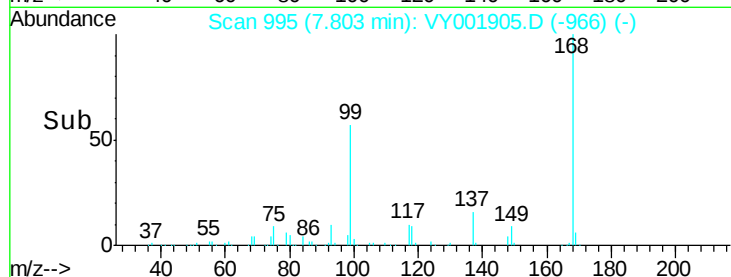
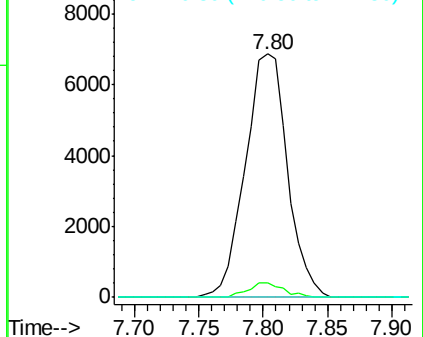
121 0.0 23.5 35.3#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#50

Toluene-d8

Concen: 53.02 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.01 min

Lab File: VY001905.D

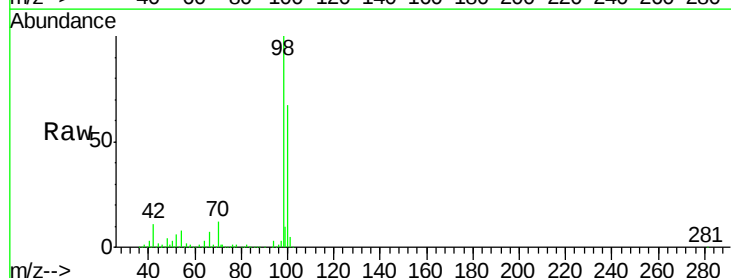
Acq: 09 Mar 2020 12:25

Tgt Ion: 98 Resp: 354551

Ion Ratio Lower Upper

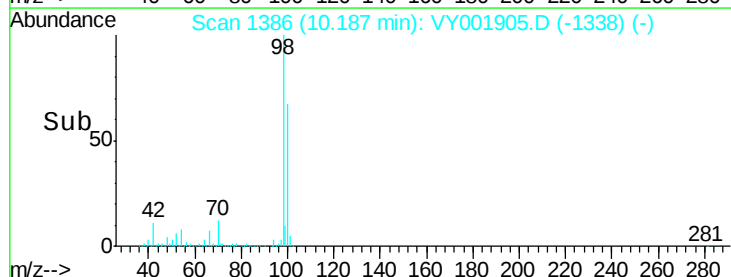
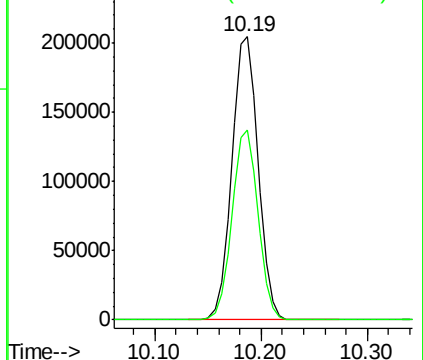
98 100

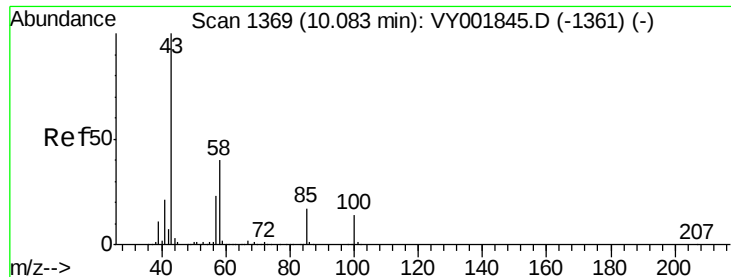
100 66.5 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#51

4-Methyl-2-Pentanone

Concen: 3.69 ug/l

RT: 10.08 min Scan# 1368

Delta R.T. -0.01 min

Lab File: VY001905.D

Acq: 09 Mar 2020 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

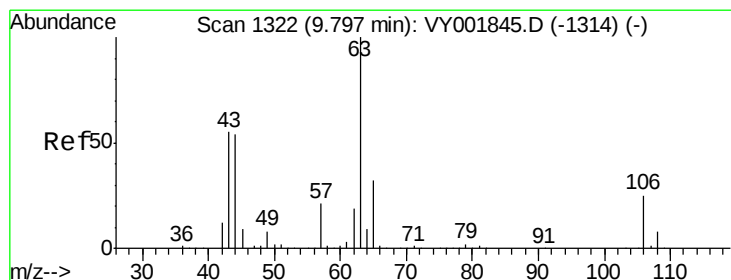
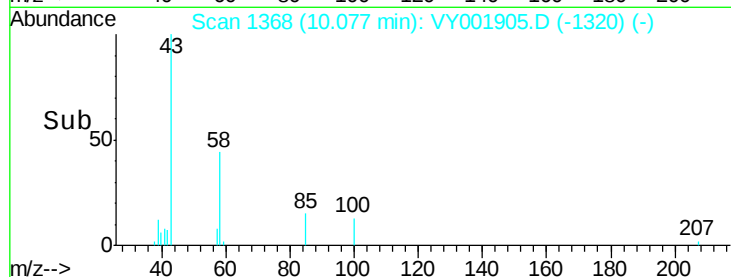
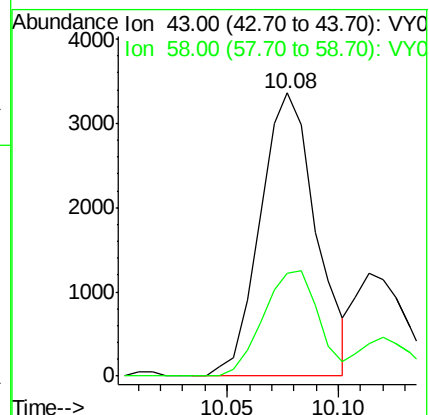
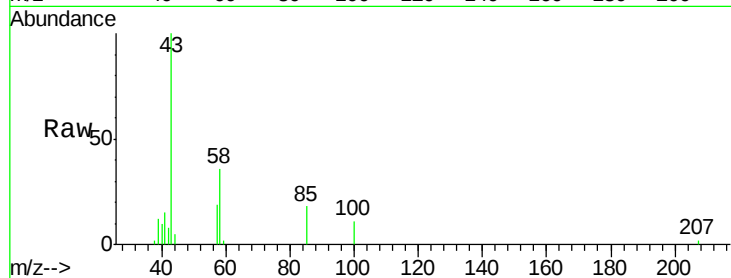
VY0309SBL01

Tgt Ion: 43 Resp: 5851

Ion Ratio Lower Upper

43 100

58 36.8 32.0 48.0



#58

2-Chloroethyl Vinyl ether

Concen: Below Cal

RT: 9.79 min Scan# 1321

Delta R.T. -0.01 min

Lab File: VY001905.D

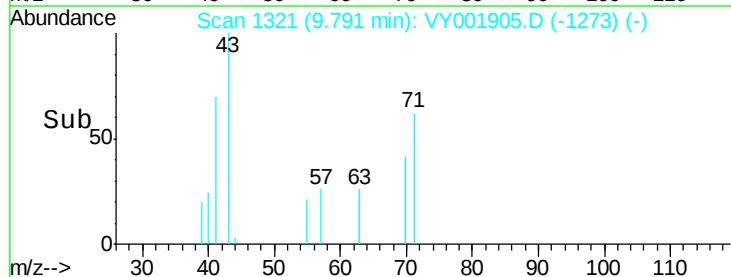
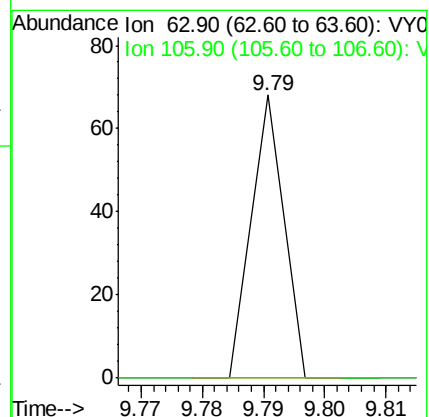
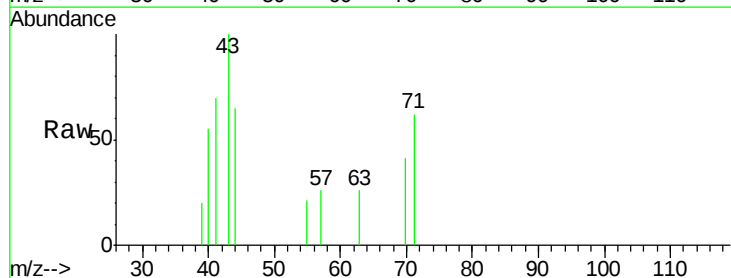
Acq: 09 Mar 2020 12:25

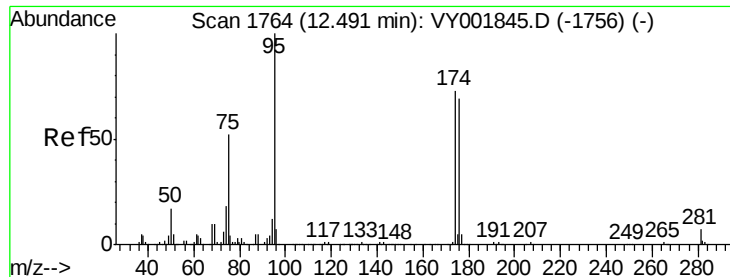
Tgt Ion: 63 Resp: 25

Ion Ratio Lower Upper

63 100

106 0.0 21.3 31.9#





#62

4-Bromofluorobenzene

Concen: 51.20 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.01 min

Lab File: VY001905.D

Acq: 09 Mar 2020 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

VY0309SBL01

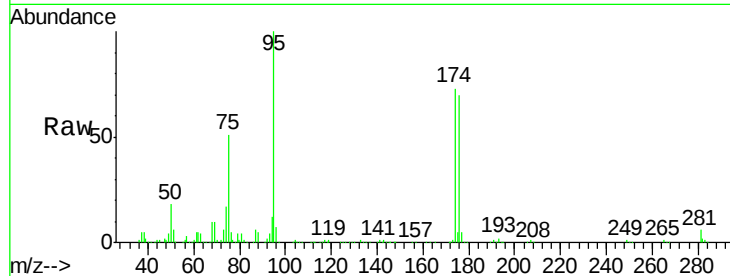
Tgt Ion: 95 Resp: 119047

Ion Ratio Lower Upper

95 100

174 73.7 0.0 145.0

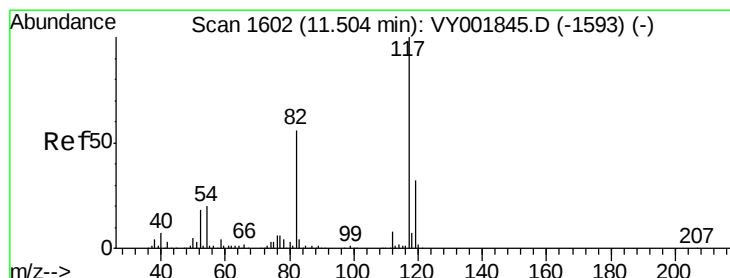
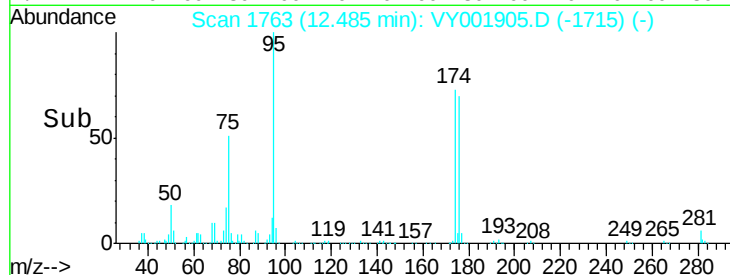
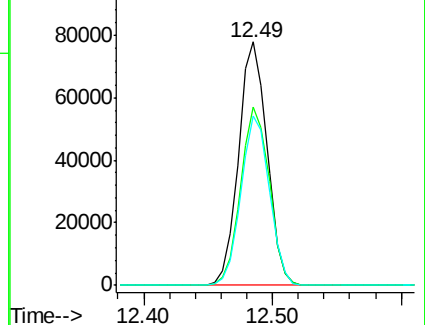
176 69.6 0.0 137.4



Abundance Ion 94.90 (94.60 to 95.60): VY001845.D (-1756) (-)

Ion 173.80 (173.50 to 174.50): VY001845.D (-1756) (-)

Ion 175.80 (175.50 to 176.50): VY001845.D (-1756) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. -0.01 min

Lab File: VY001905.D

Acq: 09 Mar 2020 12:25

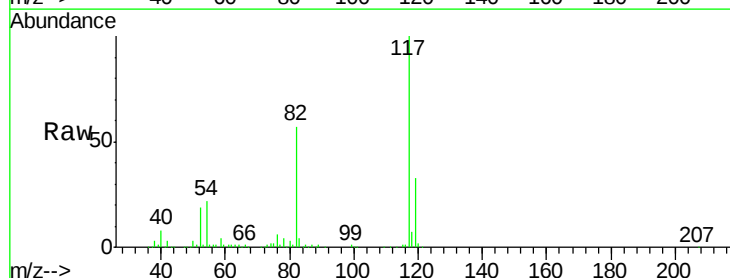
Tgt Ion: 117 Resp: 263790

Ion Ratio Lower Upper

117 100

82 57.5 44.5 66.7

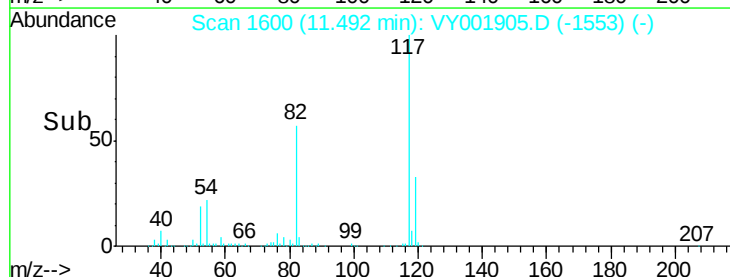
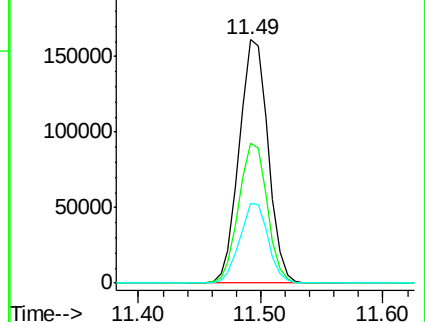
119 32.9 25.7 38.5

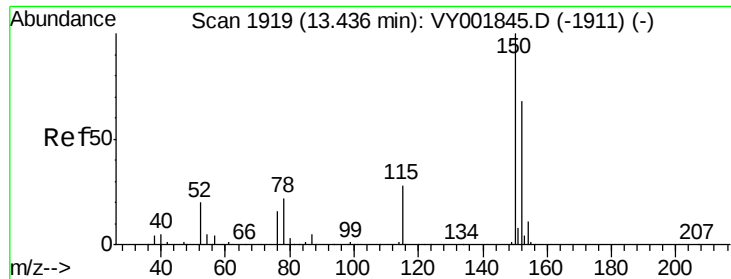


Abundance Ion 116.90 (116.60 to 117.60): VY001845.D (-1593) (-)

Ion 82.00 (81.70 to 82.70): VY001845.D (-1593) (-)

Ion 118.90 (118.60 to 119.60): VY001845.D (-1593) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. -0.01 min

Lab File: VY001905.D

Acq: 09 Mar 2020 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

VY0309SBL01

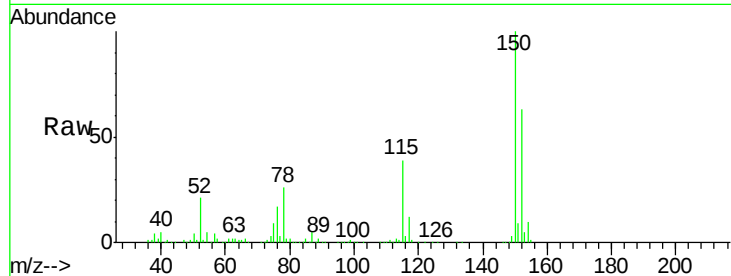
Tgt Ion:152 Resp: 114161

Ion Ratio Lower Upper

152 100

115 61.3 29.9 89.7

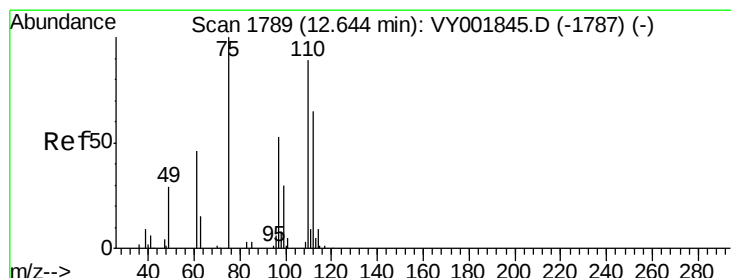
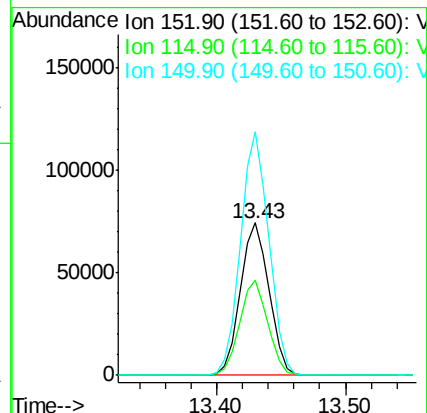
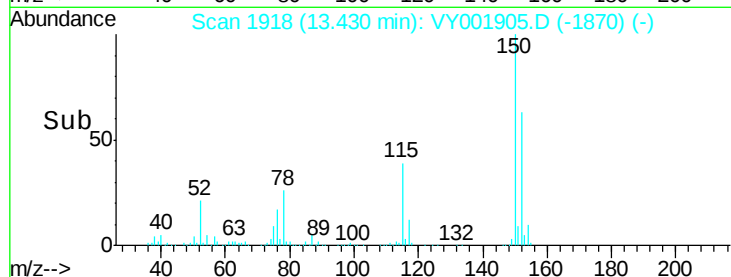
150 157.7 0.0 340.6



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#76

1,2,3-Trichloropropane

Concen: 44.13 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.16 min

Lab File: VY001905.D

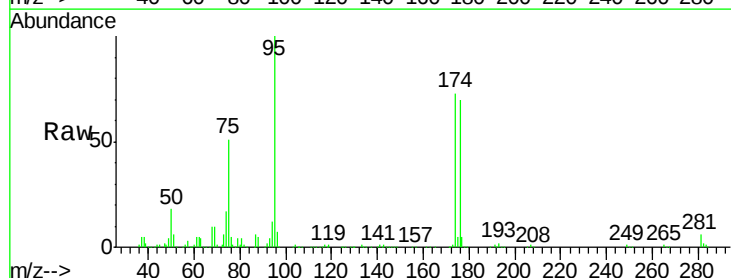
Acq: 09 Mar 2020 12:25

Tgt Ion: 75 Resp: 59775

Ion Ratio Lower Upper

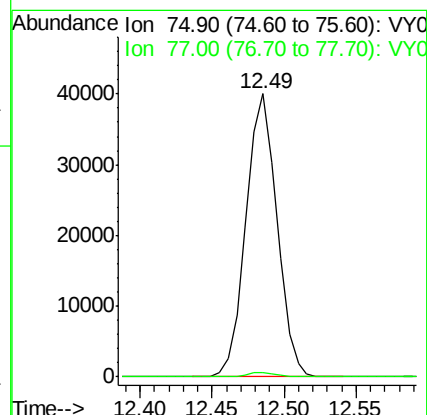
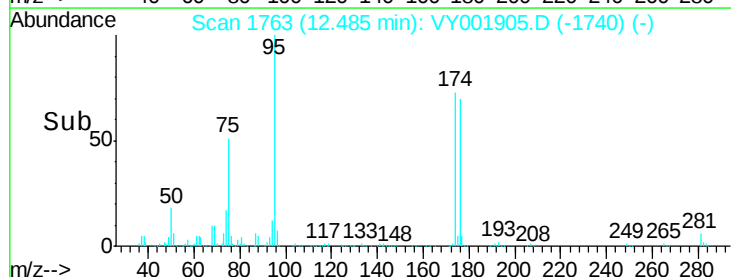
75 100

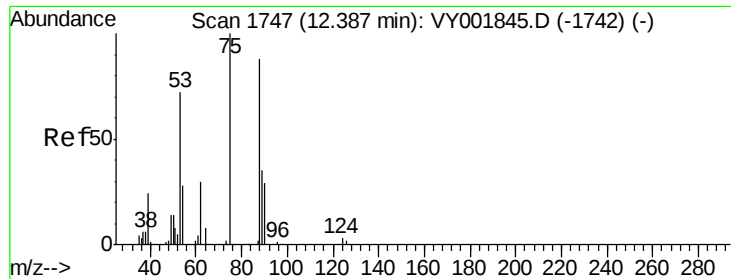
77 1.5 0.0 0.0#



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: 89.14 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001905.D

Acq: 09 Mar 2020 12:25

Instrument :

MSVOA\_Y

ClientSampleId :

VY0309SBL01

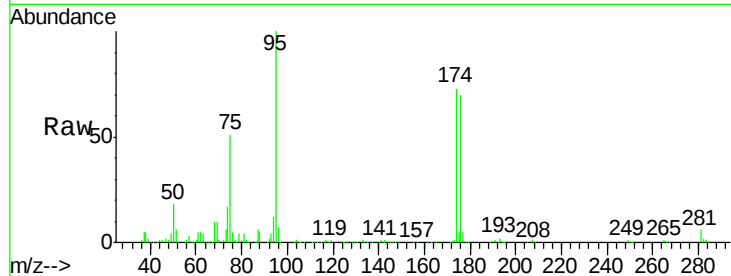
Tgt Ion: 75 Resp: 59775

Ion Ratio Lower Upper

75 100

53 0.0 65.4 98.0#

89 0.0 36.0 54.0#



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

