

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY030520\  
 Data File : VY001877.D  
 Acq On : 05 Mar 2020 13:28  
 Operator : SY/MD  
 Sample : L1783-02  
 Misc : 7.83G/5ML/MSVOA Y/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Mar 06 04:37:42 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      | 7.82  | 168  | 134433   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 253412   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 182824   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 45124    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.16  | 65   | 83782    | 58.38 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 116.76% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 77408    | 55.94 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.88% |          |
| 50) Toluene-d8              | 10.19 | 98   | 296119   | 50.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.50% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 63235    | 31.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 62.34%  |          |

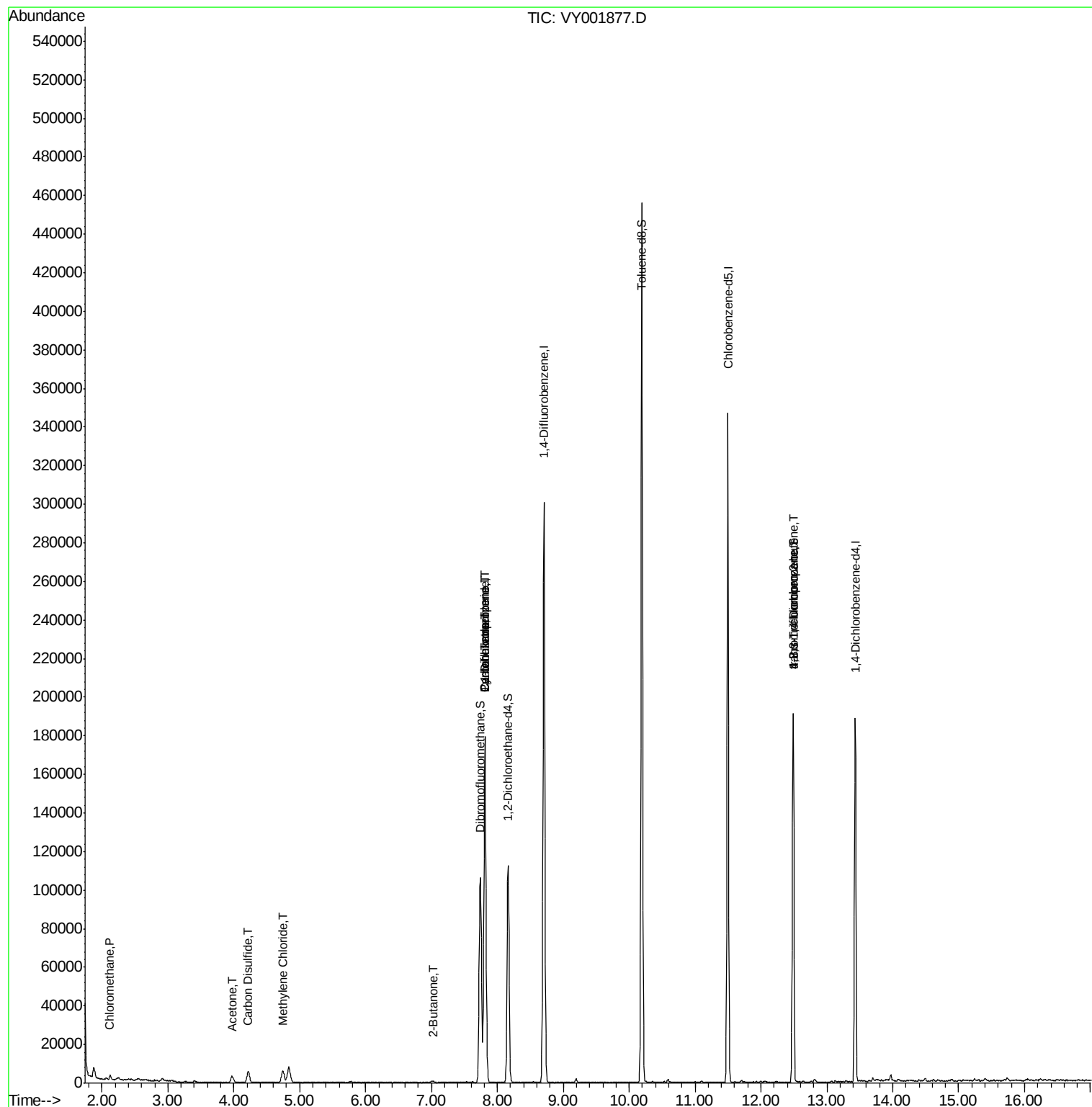
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 3) Chloromethane               | 2.12  | 50   | 2584     | 1.544     | ug/l   | 92     |
| 5) Bromomethane                | 2.66  | 94   | 19       | Below Cal | #      | 67     |
| 16) Acetone                    | 3.97  | 43   | 6055     | 14.485    | ug/l   | 89     |
| 17) Carbon Disulfide           | 4.22  | 76   | 12514    | 2.491     | ug/l # | 93     |
| 20) Methylene Chloride         | 4.75  | 84   | 4521     | 2.524     | ug/l   | 96     |
| 25) 2-Butanone                 | 7.03  | 43   | 819      | 1.288     | ug/l # | 49     |
| 31) Cyclohexane                | 7.81  | 56   | 3171     | 1.005     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.82  | 75   | 11354    | 4.656     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.81  | 117  | 13866    | 6.656     | ug/l # | 16     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 32811    | 61.280    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 32811    | 123.783   | ug/l # | 17     |

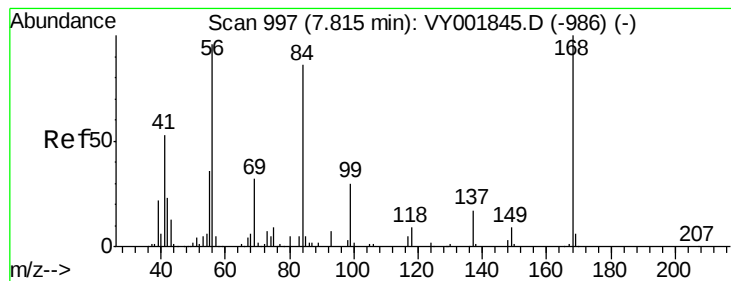
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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MSVOA\_Y  
ClientSampleId :

Quant Time: Mar 06 04:37:42 2020  
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Quant Title : SW846 8260  
QLast Update : Thu Mar 05 04:05:33 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.00 min

Lab File: VY001877.D

Acq: 05 Mar 2020 13:28

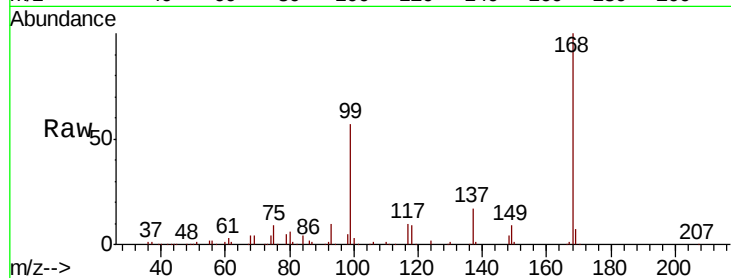
Instrument :  
MSVOA\_Y  
ClientSampled :

Tot Ion:168 Resp: 134433

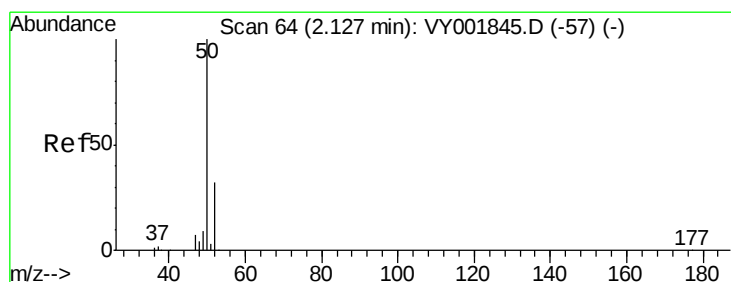
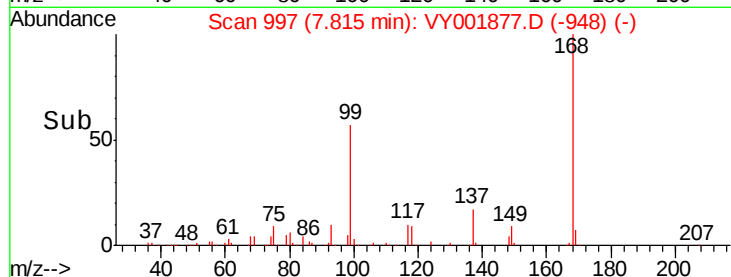
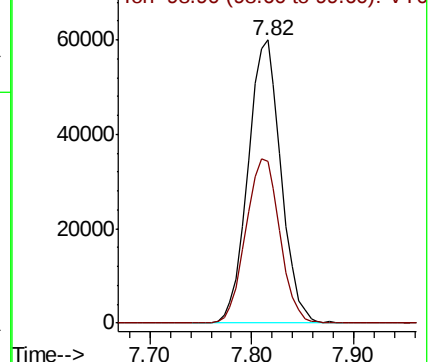
Ion Ratio Lower Upper

168 100

99 57.4 46.7 70.1



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



#3

Chloromethane

Concen: 1.544 ug/l

RT: 2.12 min Scan# 63

Delta R.T. -0.01 min

Lab File: VY001877.D

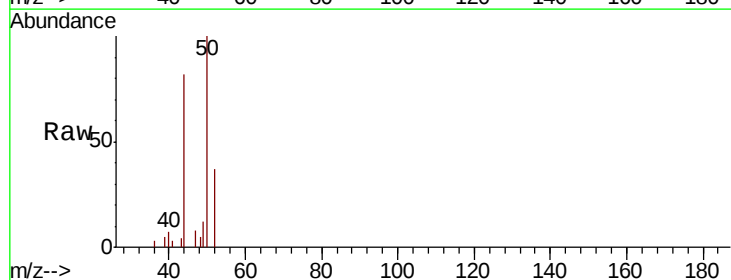
Acq: 05 Mar 2020 13:28

Tgt Ion: 50 Resp: 2584

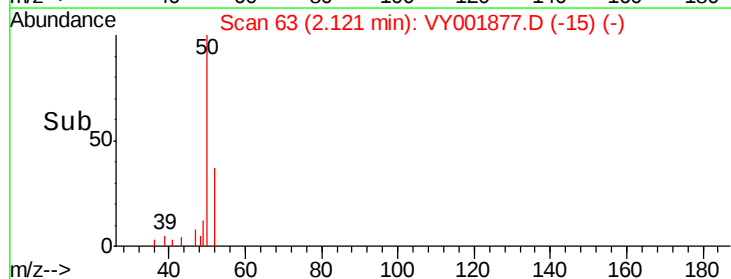
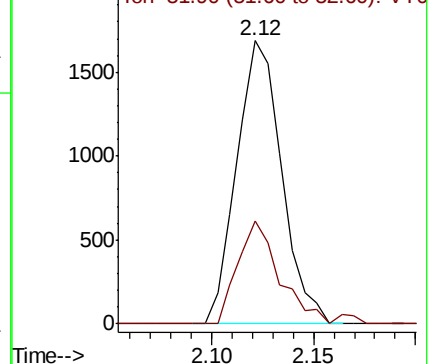
Ion Ratio Lower Upper

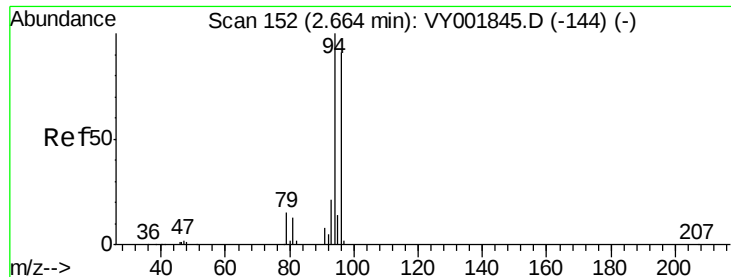
50 100

52 36.5 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# 152

Delta R.T. 0.00 min

Lab File: VY001877.D

Acq: 05 Mar 2020 13:28

Instrument :

MSVOA\_Y

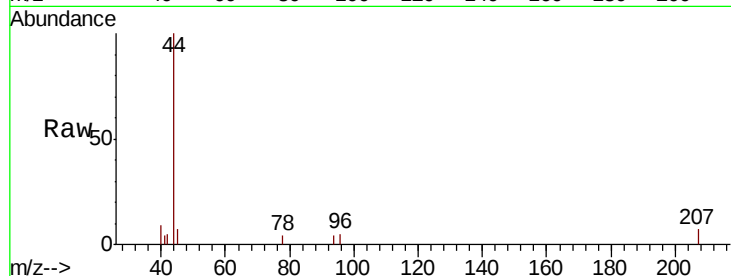
ClientSampleId :

Tot Ion: 94 Resp: 19

Ion Ratio Lower Upper

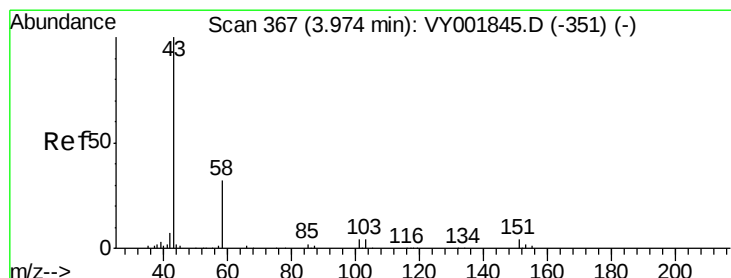
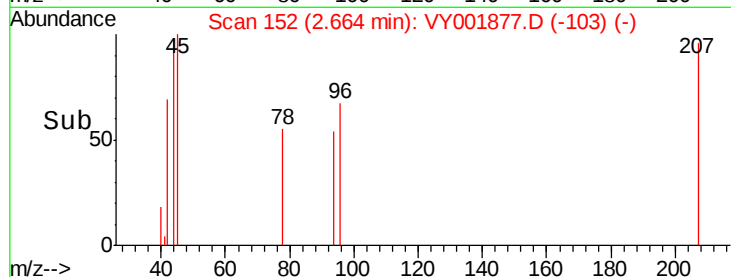
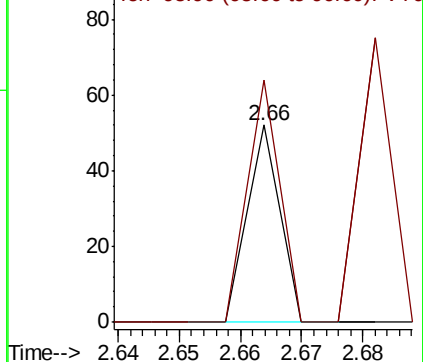
94 100

96 123.1 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VY0

Ion 95.90 (95.60 to 96.60): VY0



#16

Acetone

Concen: 14.485 ug/l

RT: 3.97 min Scan# 366

Delta R.T. -0.01 min

Lab File: VY001877.D

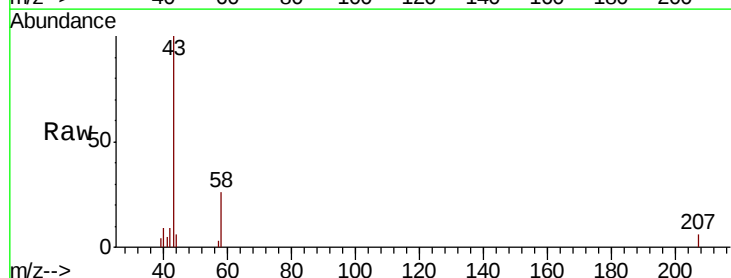
Acq: 05 Mar 2020 13:28

Tgt Ion: 43 Resp: 6055

Ion Ratio Lower Upper

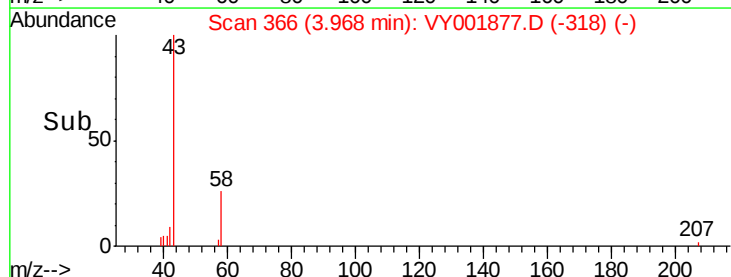
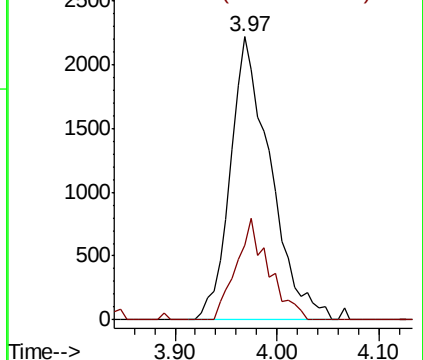
43 100

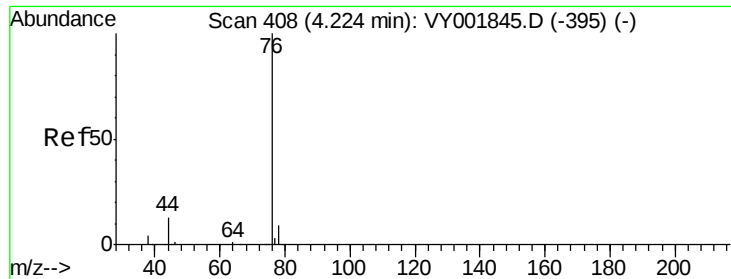
58 26.3 25.9 38.9



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#17

Carbon Disulfide

Concen: 2.491 ug/l

RT: 4.22 min Scan# 407

Delta R.T. -0.01 min

Lab File: VY001877.D

Acq: 05 Mar 2020 13:28

Instrument :

MSVOA\_Y

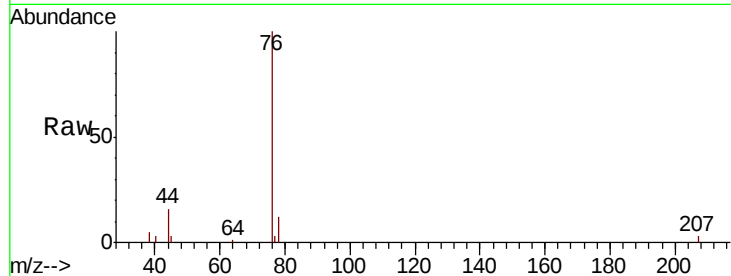
ClientSampleId :

Tot Ion: 76 Resp: 12514

Ion Ratio Lower Upper

76 100

78 12.0 7.4 11.2#



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0

4.22

5000

4000

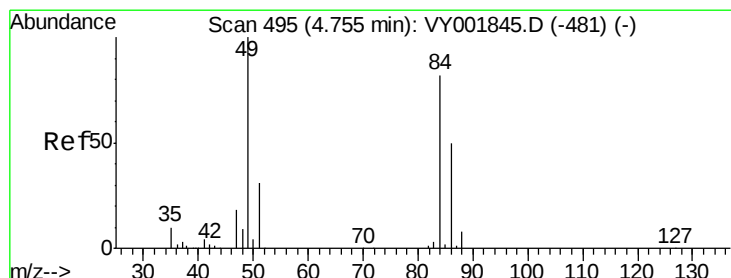
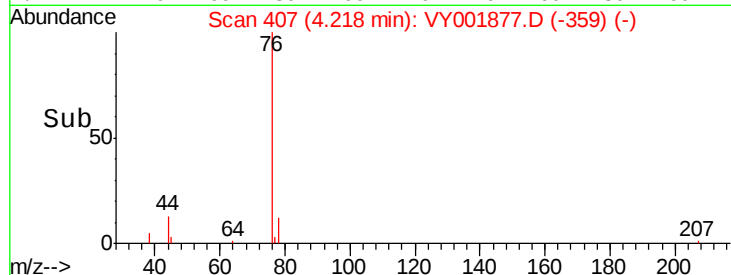
3000

2000

1000

0

Time--> 4.10 4.20 4.30



#20

Methylene Chloride

Concen: 2.524 ug/l

RT: 4.75 min Scan# 494

Delta R.T. -0.01 min

Lab File: VY001877.D

Acq: 05 Mar 2020 13:28

Tgt Ion: 84 Resp: 4521

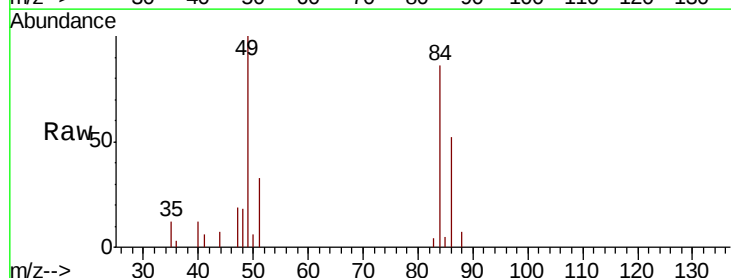
Ion Ratio Lower Upper

84 100

49 115.8 98.2 147.2

51 38.0 30.2 45.2

86 59.8 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

3000

2500

2000

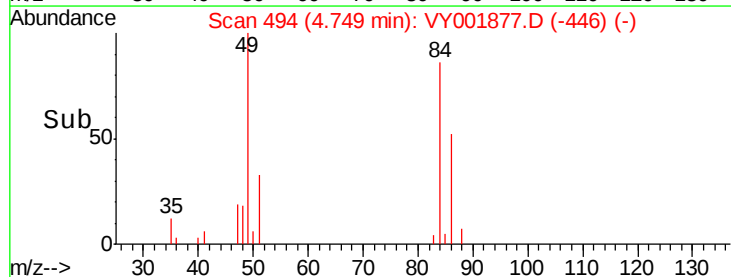
1500

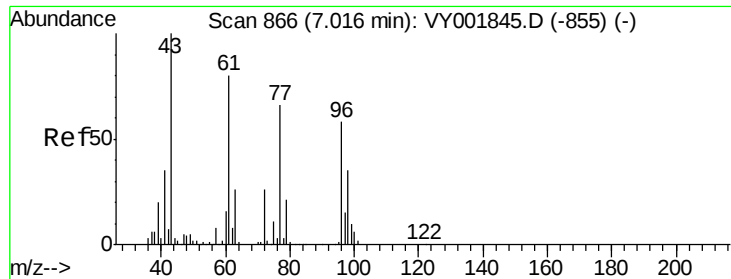
1000

500

0

Time--> 4.65 4.70 4.75 4.80 4.85

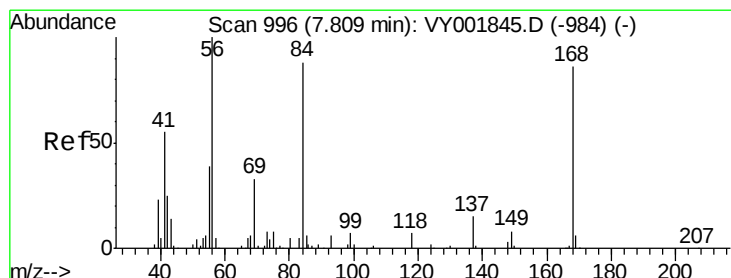
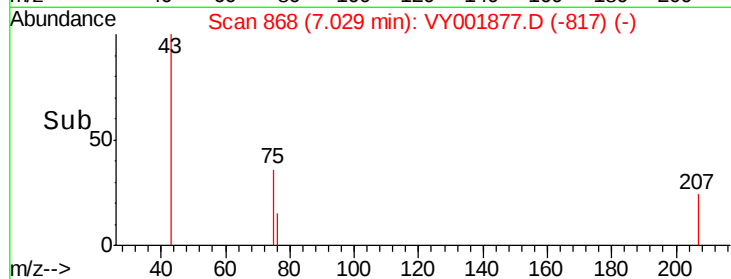
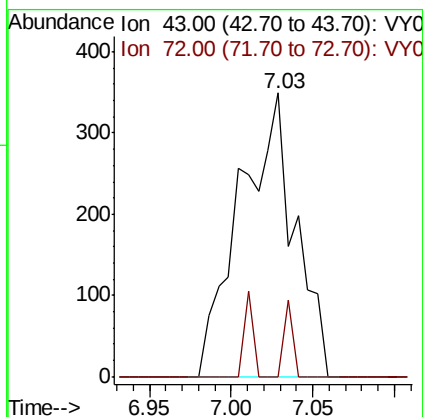
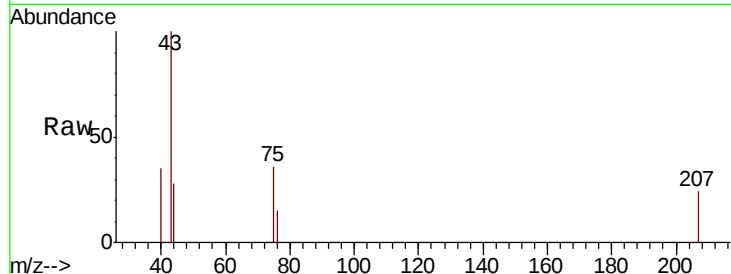




#25  
2-Butanone  
Concen: 1.288 ug/l  
RT: 7.03 min Scan# 868  
Delta R.T. 0.01 min  
Lab File: VY001877.D  
Acq: 05 Mar 2020 13:28

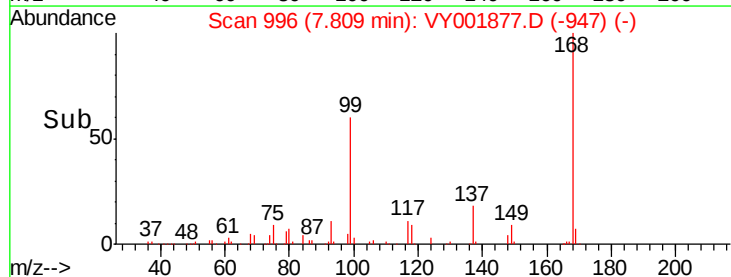
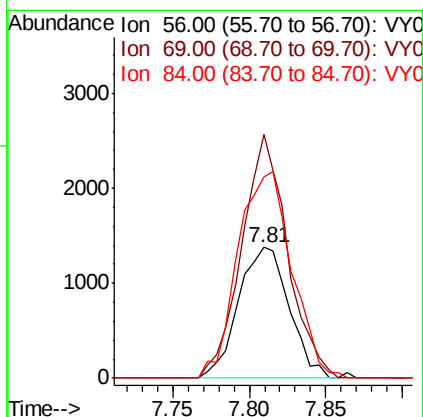
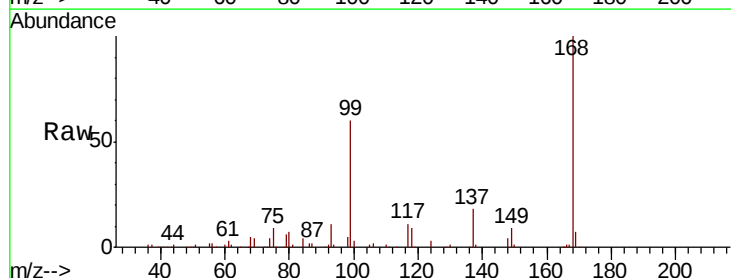
Instrument :  
MSVOA\_Y  
ClientSampleId :

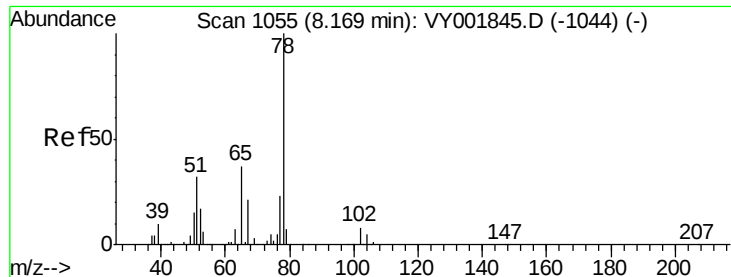
Tot Ion: 43 Resp: 819  
Ion Ratio Lower Upper  
43 100  
72 0.0 20.9 31.3#



#31  
Cyclohexane  
Concen: 1.005 ug/l  
RT: 7.81 min Scan# 996  
Delta R.T. 0.00 min  
Lab File: VY001877.D  
Acq: 05 Mar 2020 13:28

Tgt Ion: 56 Resp: 3171  
Ion Ratio Lower Upper  
56 100  
69 186.6 26.7 40.1#  
84 154.4 70.4 105.6#





#33

1,2-Dichloroethane-d4

Concen: 58.378 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VY001877.D

Acq: 05 Mar 2020 13:28

Instrument :

MSVOA\_Y

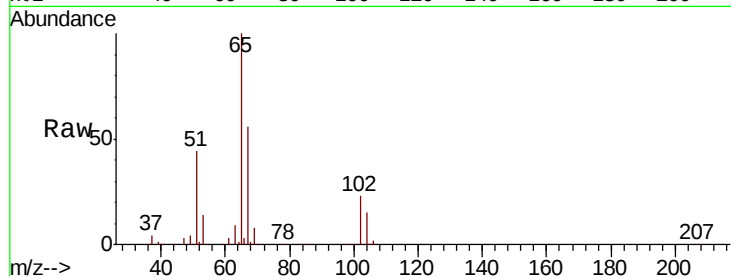
ClientSampleId :

Tot Ion: 65 Resp: 83782

Ion Ratio Lower Upper

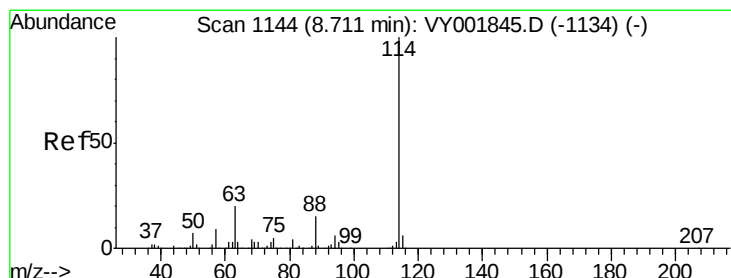
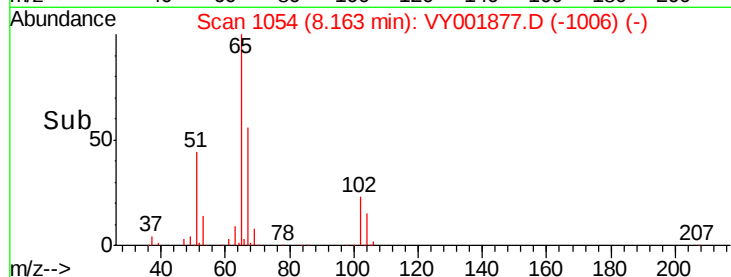
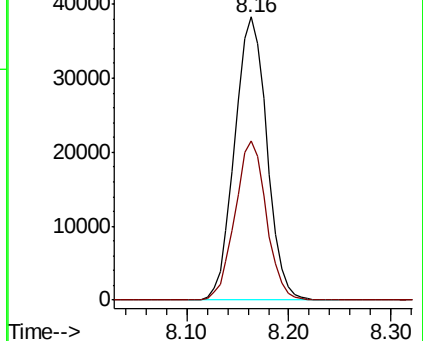
65 100

67 54.6 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: 50.000 ug/l

RT: 8.71 min Scan# 1143

Delta R.T. -0.01 min

Lab File: VY001877.D

Acq: 05 Mar 2020 13:28

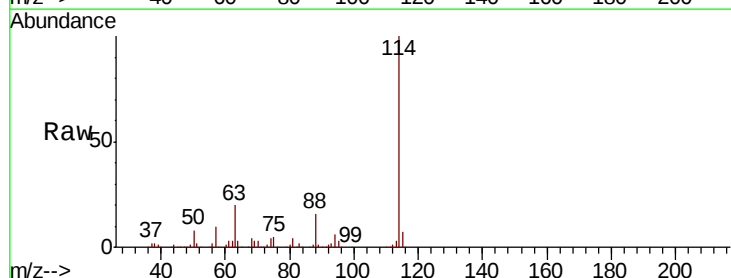
Tgt Ion: 114 Resp: 253412

Ion Ratio Lower Upper

114 100

63 20.5 0.0 39.4

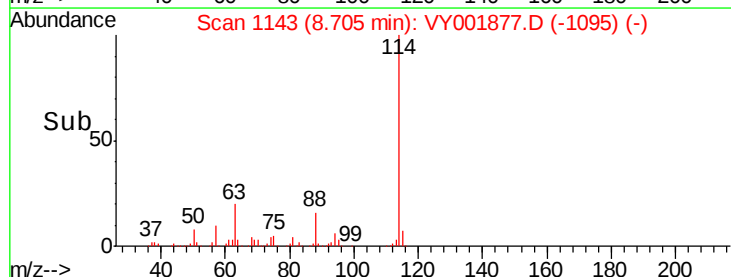
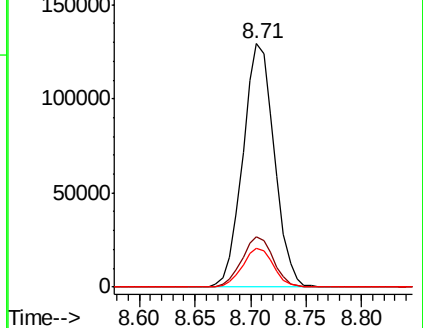
88 16.2 0.0 30.4

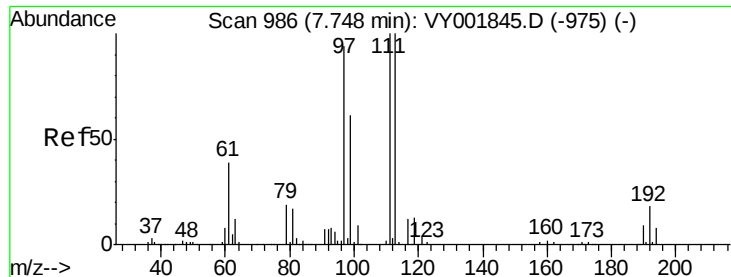


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

Ion 87.90 (87.60 to 88.60): VY0

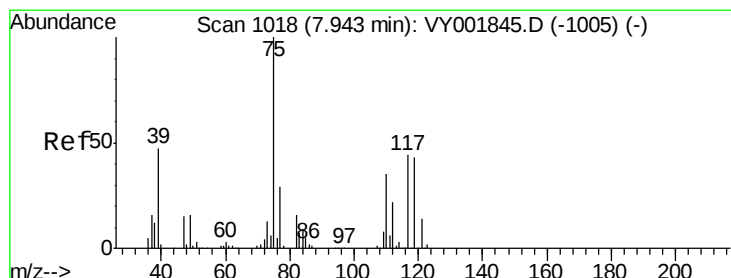
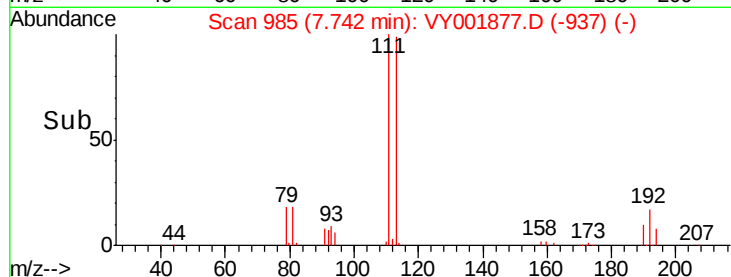
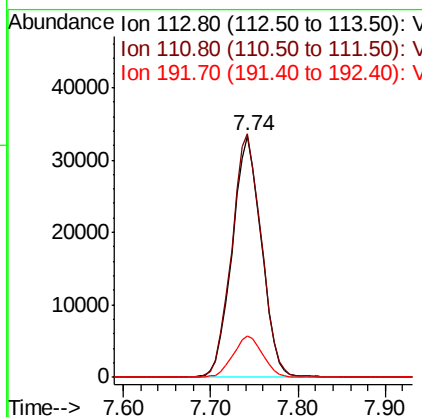
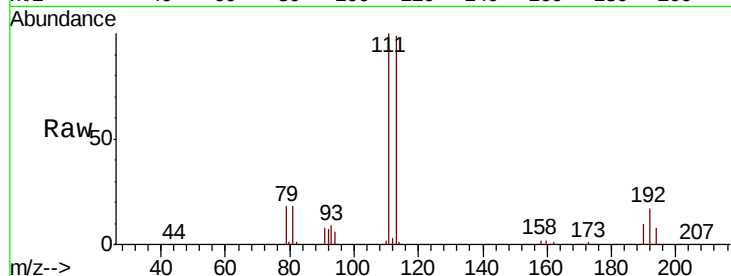




#35  
 Dibromofluoromethane  
 Concen: 55.941 ug/l  
 RT: 7.74 min Scan# 985  
 Delta R.T. -0.01 min  
 Lab File: VY001877.D  
 Acq: 05 Mar 2020 13:28

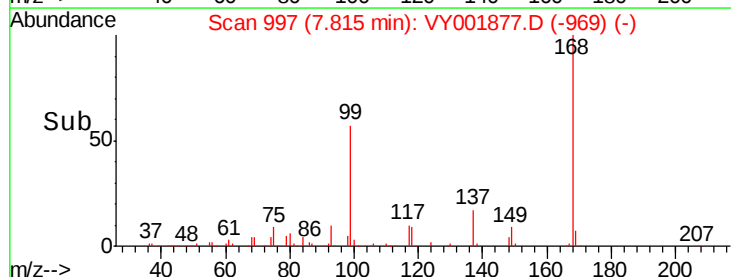
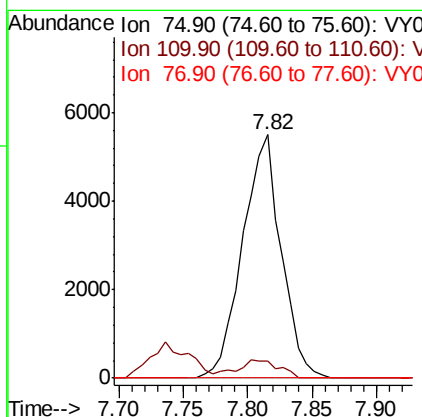
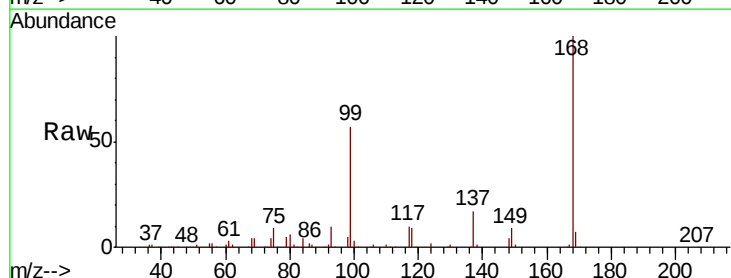
Instrument :  
 MSVOA\_Y  
 ClientSampleId :

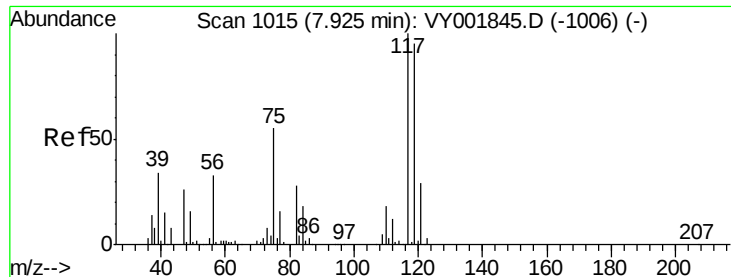
Tot Ion:113 Resp: 77408  
 Ion Ratio Lower Upper  
 113 100  
 111 102.3 81.8 122.8  
 192 17.2 14.2 21.2



#36  
 1,1-Dichloropropene  
 Concen: 4.656 ug/l  
 RT: 7.82 min Scan# 997  
 Delta R.T. -0.13 min  
 Lab File: VY001877.D  
 Acq: 05 Mar 2020 13:28

Tgt Ion: 75 Resp: 11354  
 Ion Ratio Lower Upper  
 75 100  
 110 8.2 17.4 52.2#  
 77 0.0 24.2 36.2#





#38

Carbon Tetrachloride

Concen: 6.656 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.12 min

Lab File: VY001877.D

Acq: 05 Mar 2020 13:28

Instrument :

MSVOA\_Y

ClientSampled :

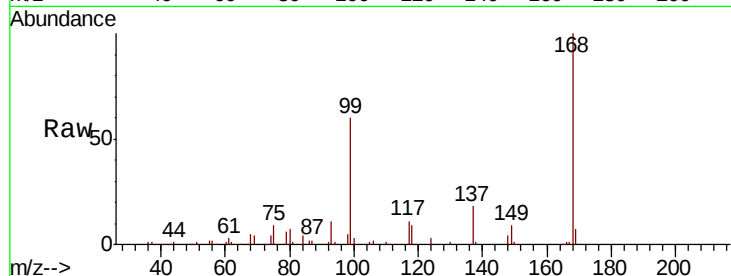
Tot Ion:117 Resp: 13866

Ion Ratio Lower Upper

117 100

119 4.4 76.3 114.5#

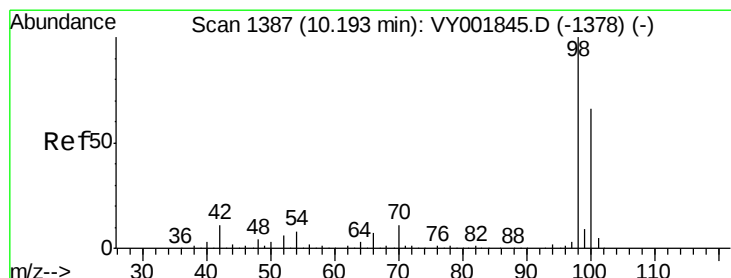
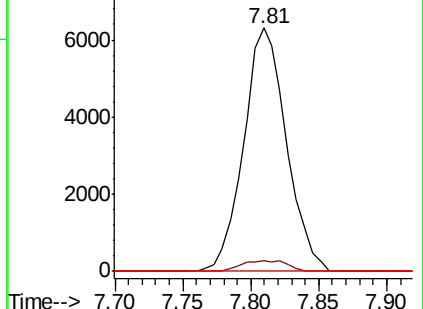
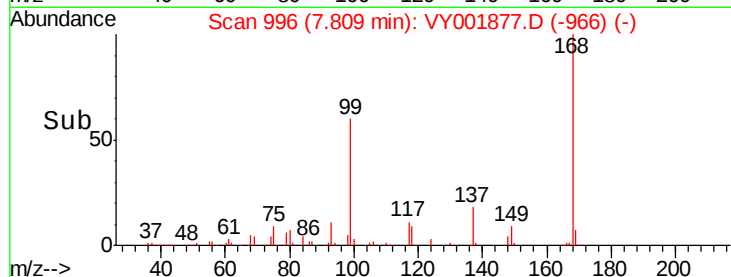
121 0.0 23.5 35.3#



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: 50.749 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VY001877.D

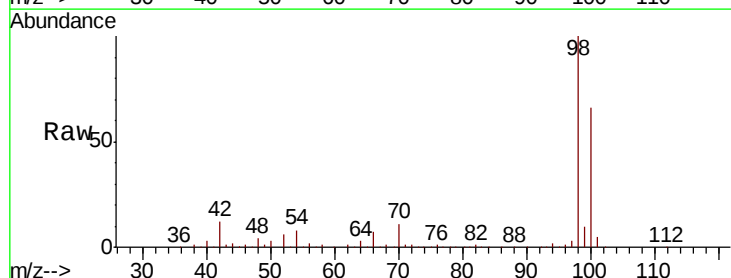
Acq: 05 Mar 2020 13:28

Tgt Ion: 98 Resp: 296119

Ion Ratio Lower Upper

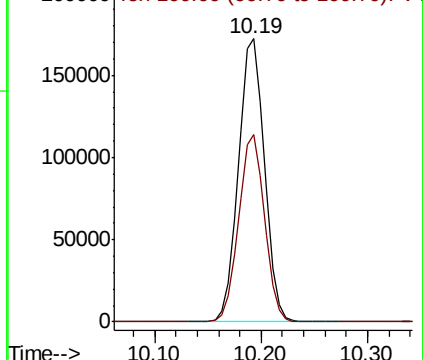
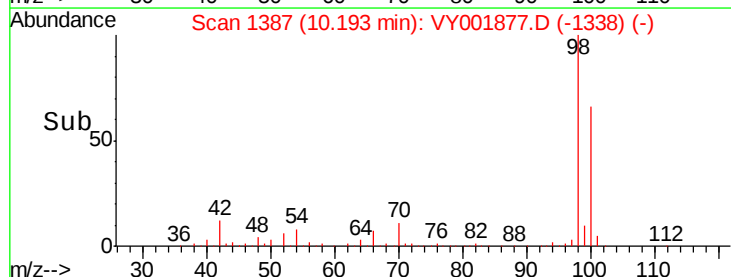
98 100

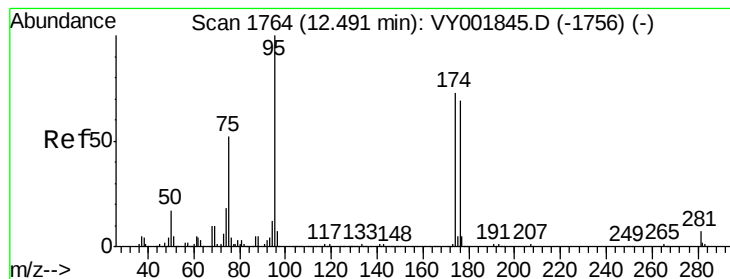
100 65.9 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#62

4-Bromofluorobenzene

Concen: 31.167 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VY001877.D

Acq: 05 Mar 2020 13:28

Instrument :

MSVOA\_Y

ClientSampleId :

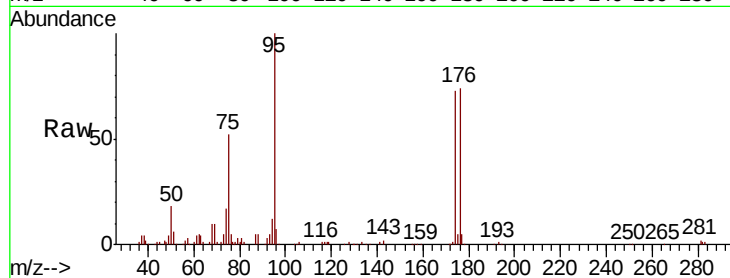
Tot Ion: 95 Resp: 63235

Ion Ratio Lower Upper

95 100

174 72.7 0.0 145.0

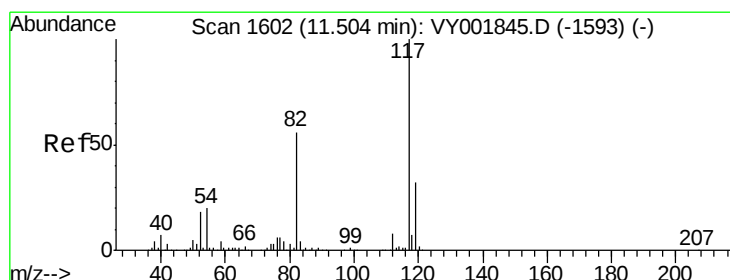
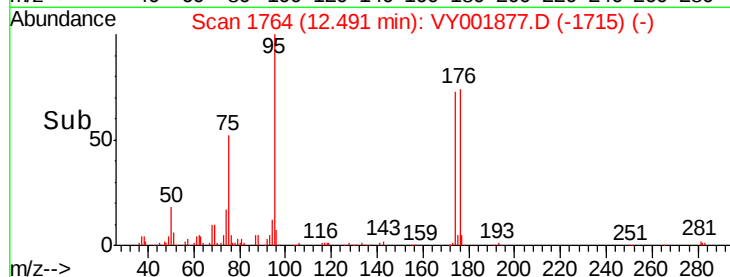
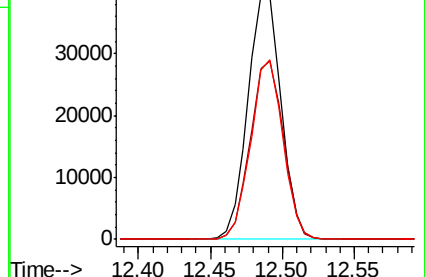
176 70.7 0.0 137.4



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: 50.000 ug/l

RT: 11.50 min Scan# 1601

Delta R.T. -0.01 min

Lab File: VY001877.D

Acq: 05 Mar 2020 13:28

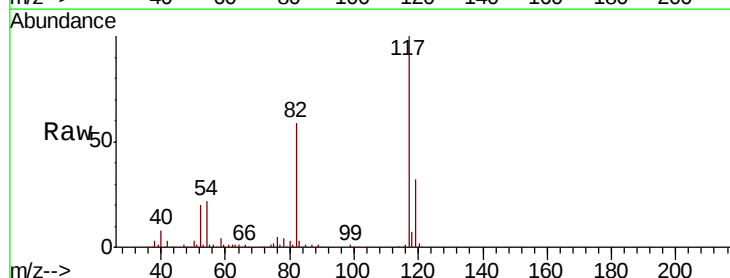
Tgt Ion: 117 Resp: 182824

Ion Ratio Lower Upper

117 100

82 59.0 44.5 66.7

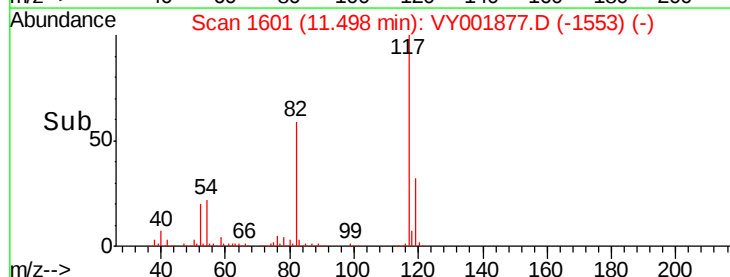
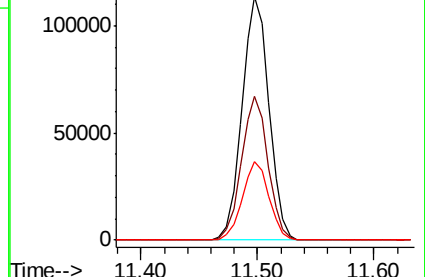
119 32.0 25.7 38.5

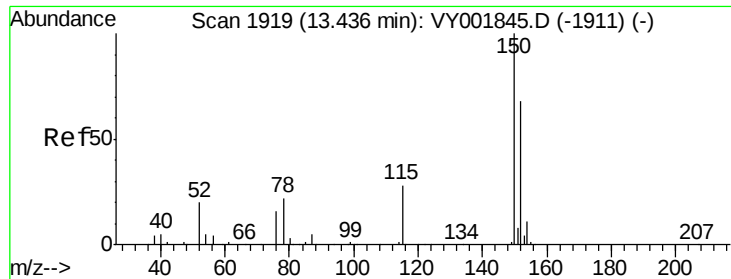


Abundance Ion 116.90 (116.60 to 117.60): VY001845.D (-1593) (-)

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: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. -0.01 min

Lab File: VY001877.D

Acq: 05 Mar 2020 13:28

Instrument :

MSVOA\_Y

ClientSampleId :

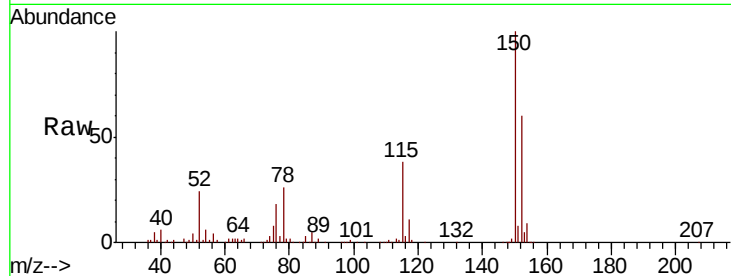
Tot Ion:152 Resp: 45124

Ion Ratio Lower Upper

152 100

115 61.4 29.9 89.7

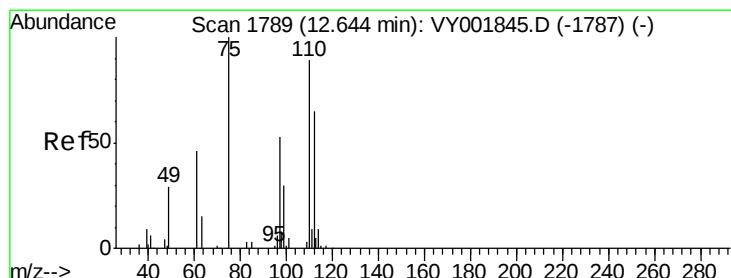
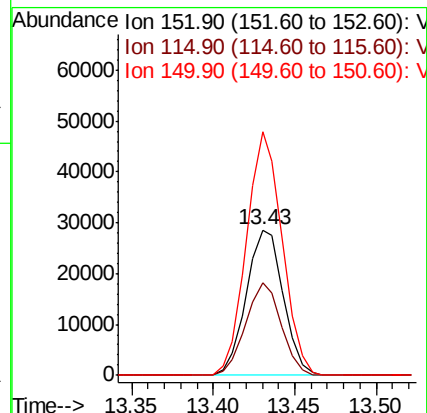
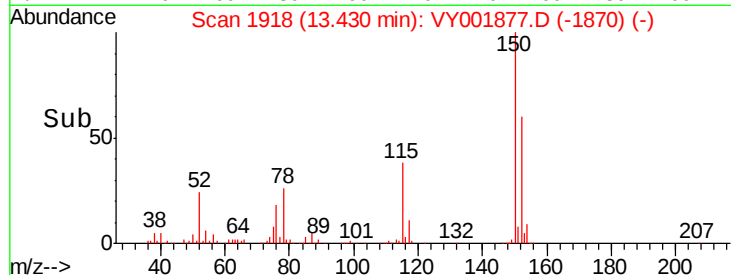
150 161.1 0.0 340.6



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: 61.280 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.16 min

Lab File: VY001877.D

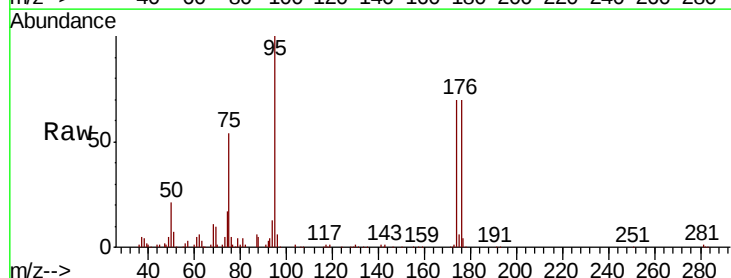
Acq: 05 Mar 2020 13:28

Tgt Ion: 75 Resp: 32811

Ion Ratio Lower Upper

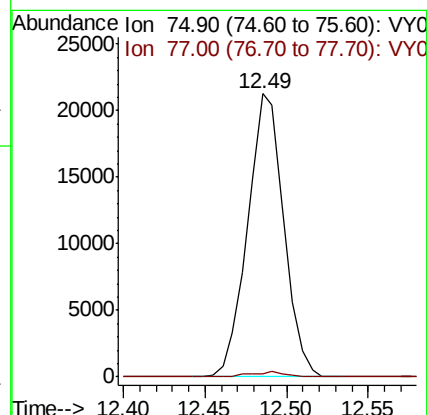
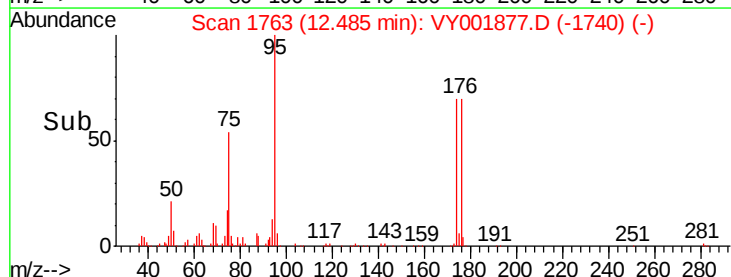
75 100

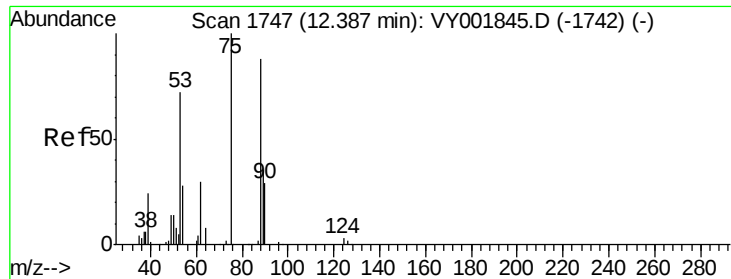
77 1.8 0.0 0.0#



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: 123.783 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001877.D

Acq: 05 Mar 2020 13:28

Instrument :

MSVOA\_Y

ClientSampleId :

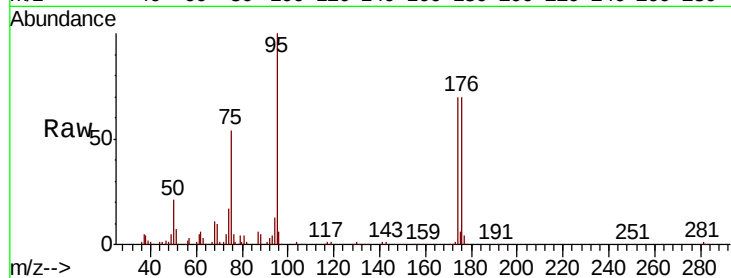
Tot Ion: 75 Resp: 32811

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

