

Data File : VY001935.D  
Acq On : 11 Mar 2020 12:00  
Operator : SY/MD  
Sample : VY0311SBL01  
Misc : 5.00G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0311SBL01

Quant Time: Mar 12 01:52:59 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  | 143040   | 50.00 | ug/l  | -0.02    |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 276417   | 50.00 | ug/l  | -0.02    |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 248379   | 50.00 | ug/l  | -0.01    |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 109296   | 50.00 | ug/l  | 0.00     |

#### System Monitoring Compounds

|                           |        |     |          |       |         |       |
|---------------------------|--------|-----|----------|-------|---------|-------|
| 33) 1,2-Dichloroethane-d4 | 8.15   | 65  | 85965    | 56.29 | ug/l    | -0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 112.58% |       |
| 35) Dibromofluoromethane  | 7.73   | 113 | 81011    | 53.67 | ug/l    | -0.02 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.34% |       |
| 50) Toluene-d8            | 10.18  | 98  | 331107   | 52.02 | ug/l    | -0.01 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 104.04% |       |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 113304   | 51.20 | ug/l    | 0.00  |
| Spiked Amount             | 50.000 |     | Recovery | =     | 102.40% |       |

#### Target Compounds

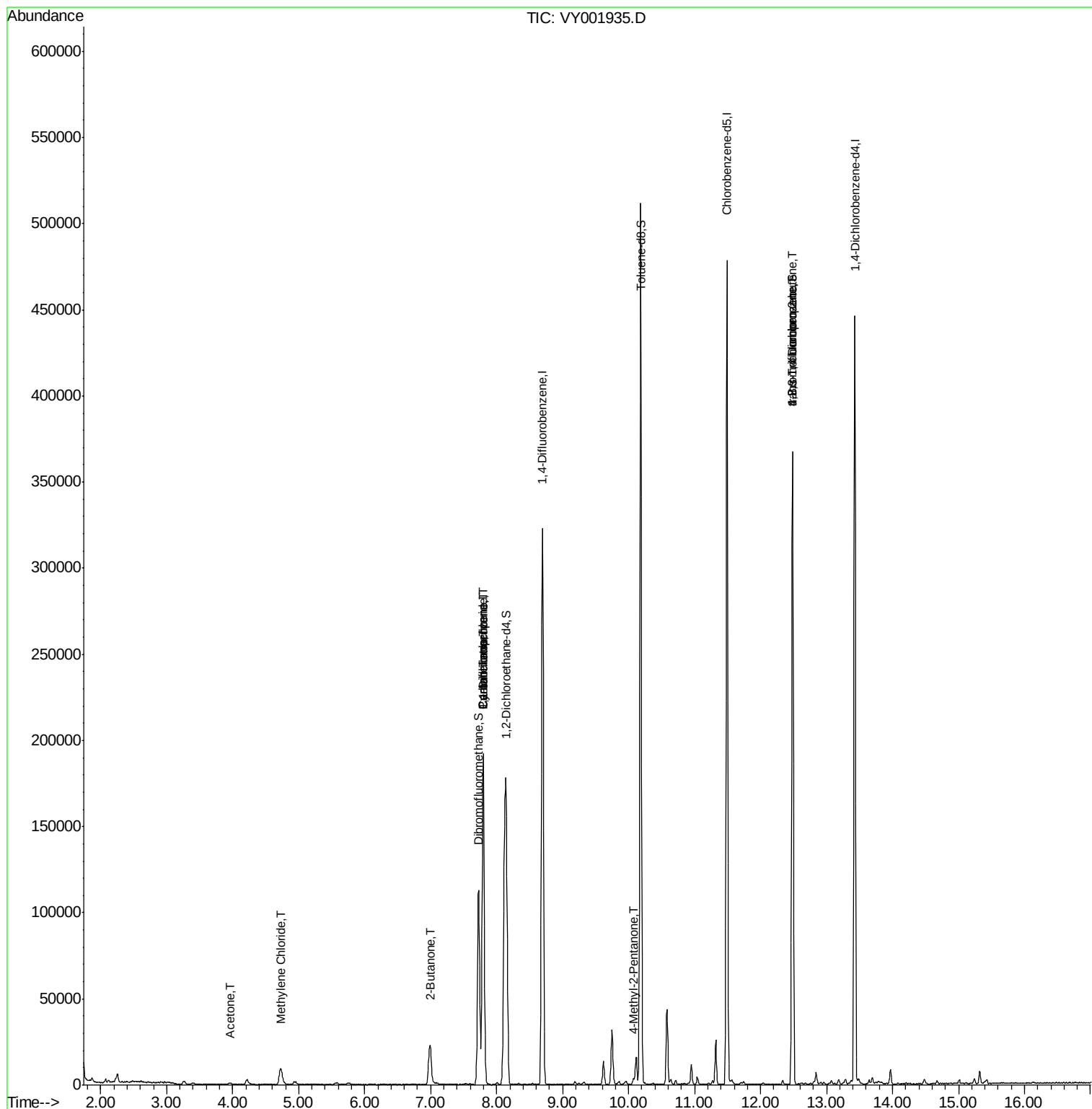
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 5) Bromomethane                | 2.66  | 94  | 51    | Below Cal | #      | 4      |
| 11) Tert butyl alcohol         | 4.96  | 59  | 2345  | Below Cal | #      | 74     |
| 16) Acetone                    | 3.96  | 43  | 1856  | 4.173     | ug/l   | 88     |
| 20) Methylene Chloride         | 4.72  | 84  | 7225  | 3.790     | ug/l   | 96     |
| 25) 2-Butanone                 | 6.99  | 43  | 1522  | 2.250     | ug/l   | 94     |
| 31) Cyclohexane                | 7.80  | 56  | 3551  | 1.058     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.80  | 75  | 12363 | 4.648     | ug/l # | 48     |
| 38) Carbon Tetrachloride       | 7.80  | 117 | 14194 | 6.247     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.07 | 43  | 2517  | 1.670     | ug/l   | 100    |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75  | 56766 | 43.772    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75  | 56766 | 88.416    | ug/l # | 17     |

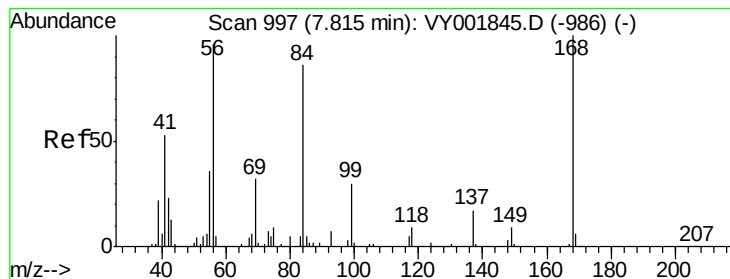
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.02 min

Lab File: VY001935.D

Acq: 11 Mar 2020 12:00

Instrument :

MSVOA\_Y

ClientSampleId :

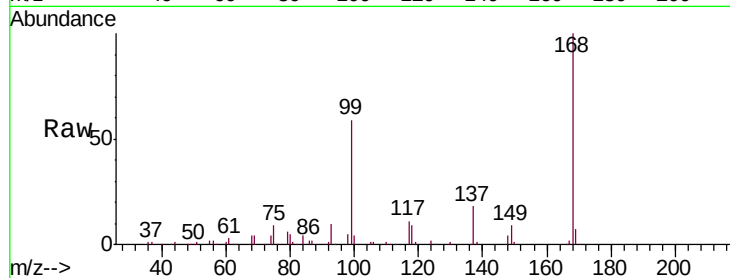
VY0311SBL01

Tgt Ion: 168 Resp: 143040

Ion Ratio Lower Upper

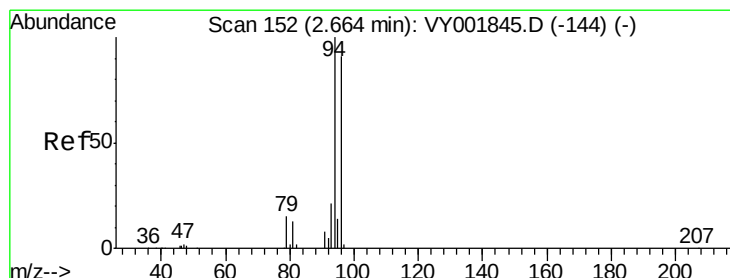
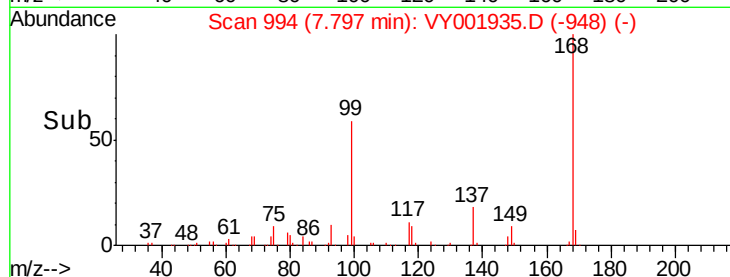
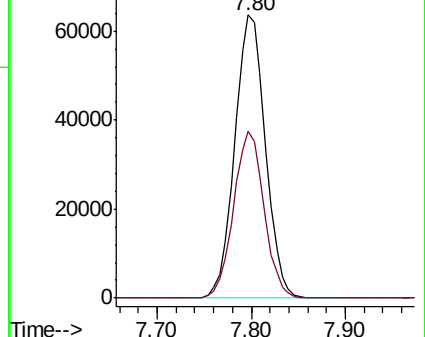
168 100

99 58.7 46.7 70.1



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

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.66 min Scan# 151

Delta R.T. -0.01 min

Lab File: VY001935.D

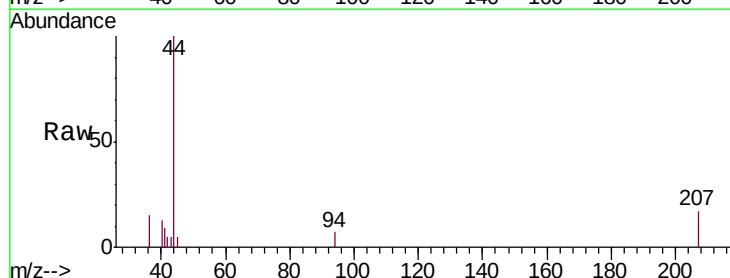
Acq: 11 Mar 2020 12:00

Tgt Ion: 94 Resp: 51

Ion Ratio Lower Upper

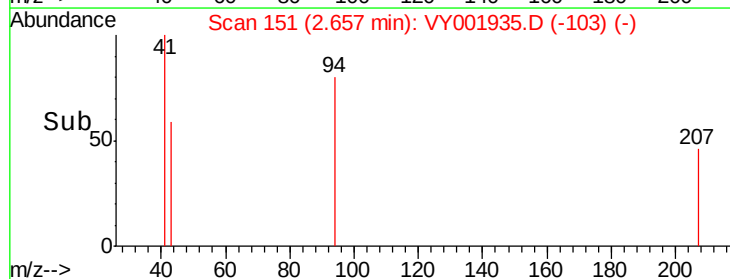
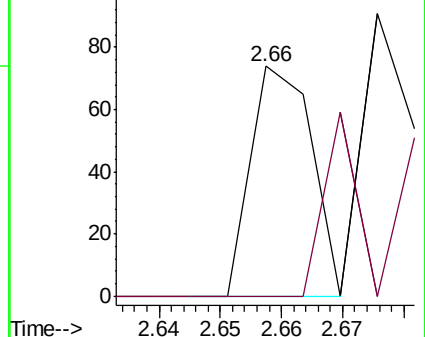
94 100

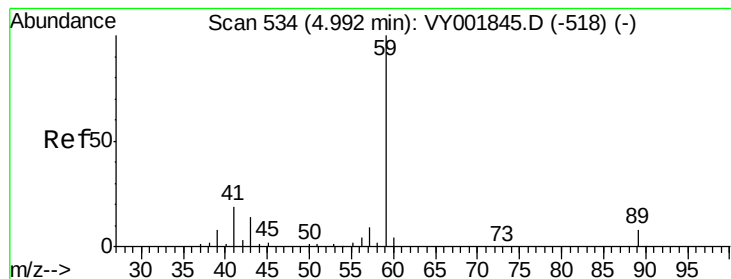
96 0.0 73.2 109.8#



Abundance Ion 93.90 (93.60 to 94.60): VY001845.D (-144) (-)

Ion 95.90 (95.60 to 96.60): VY001845.D (-144) (-)



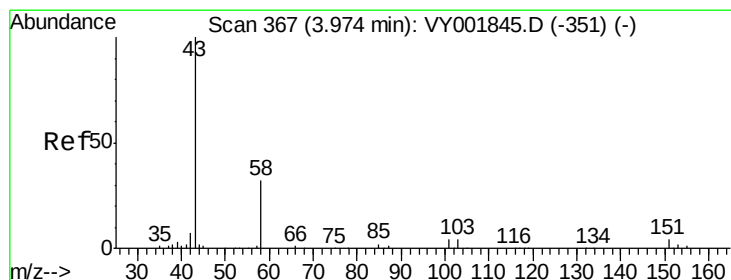
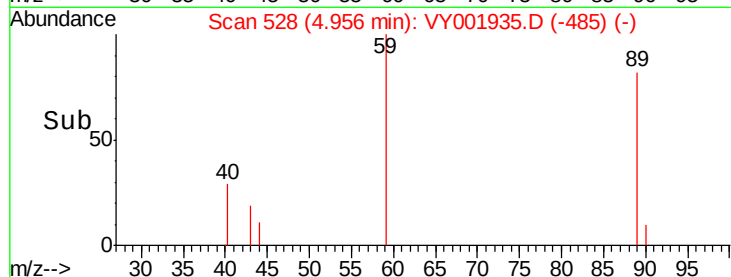
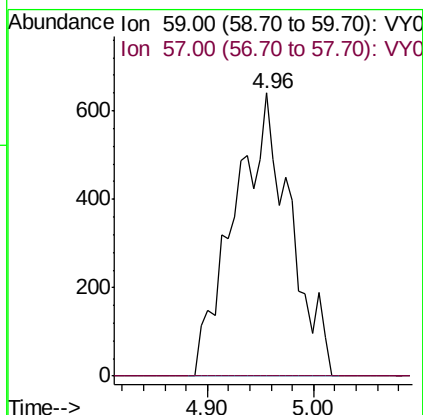
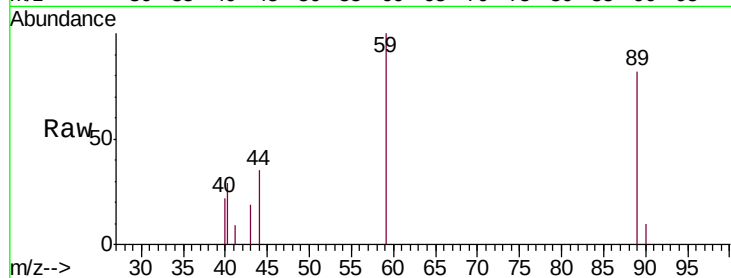


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 4.96 min Scan# 528  
 Delta R.T. -0.04 min  
 Lab File: VY001935.D  
 Acq: 11 Mar 2020 12:00

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0311SBL01

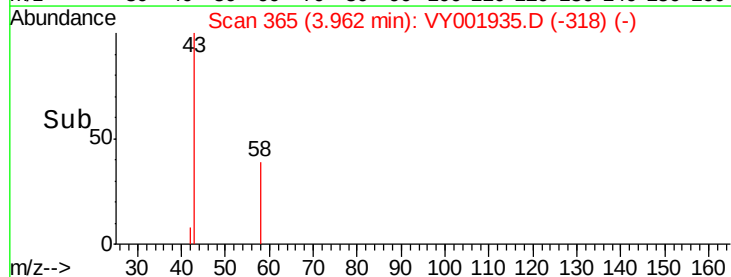
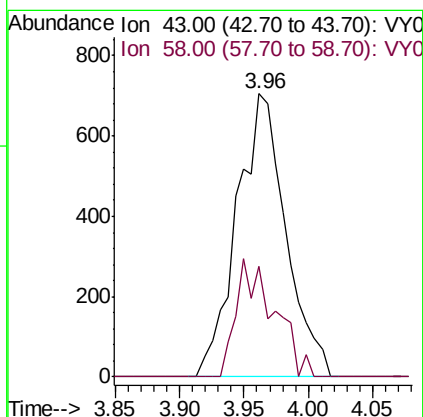
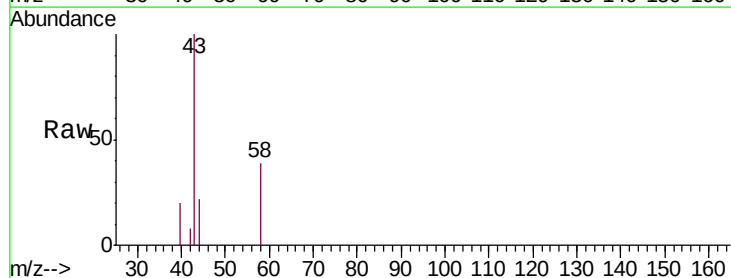
Tgt Ion: 59 Resp: 2345  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.4 11.2#

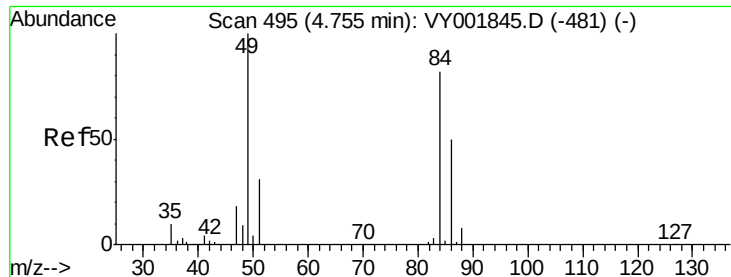


#16

Acetone  
 Concen: 4.173 ug/l  
 RT: 3.96 min Scan# 365  
 Delta R.T. -0.01 min  
 Lab File: VY001935.D  
 Acq: 11 Mar 2020 12:00

Tgt Ion: 43 Resp: 1856  
 Ion Ratio Lower Upper  
 43 100  
 58 38.9 25.9 38.9

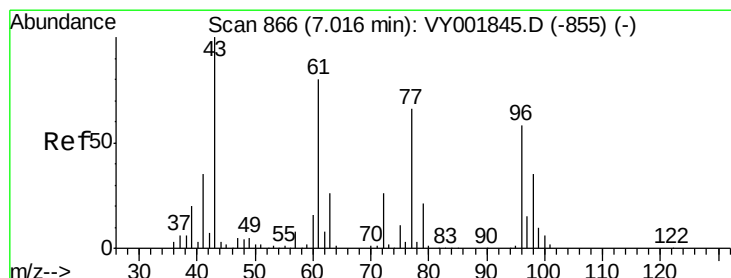
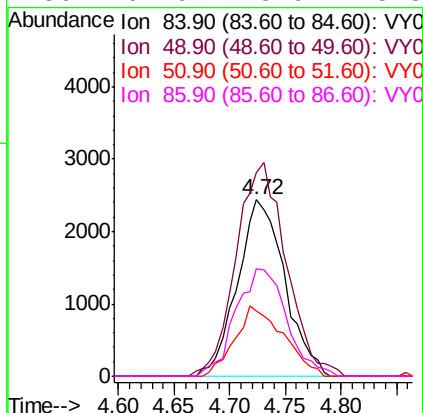
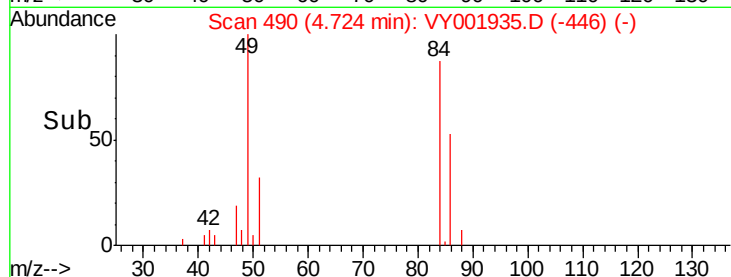
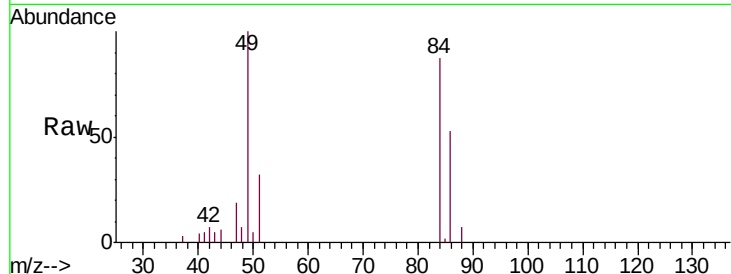




#20  
Methylene Chloride  
Concen: 3.790 ug/l  
RT: 4.72 min Scan# 490  
Delta R.T. -0.03 min  
Lab File: VY001935.D  
Acq: 11 Mar 2020 12:00

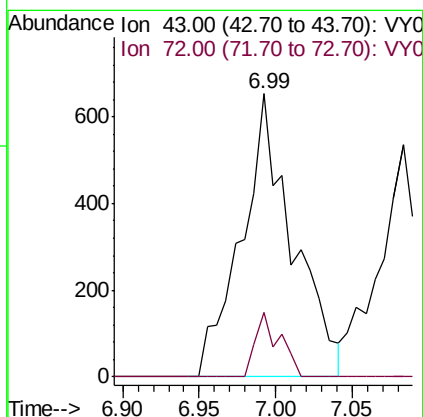
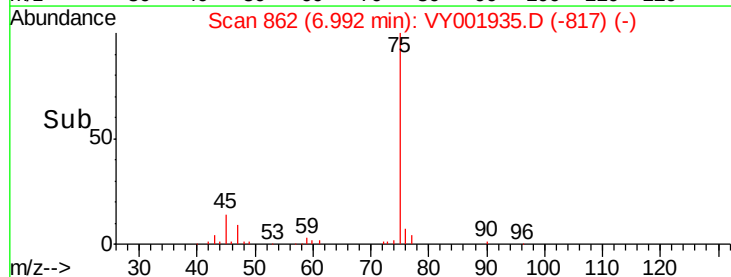
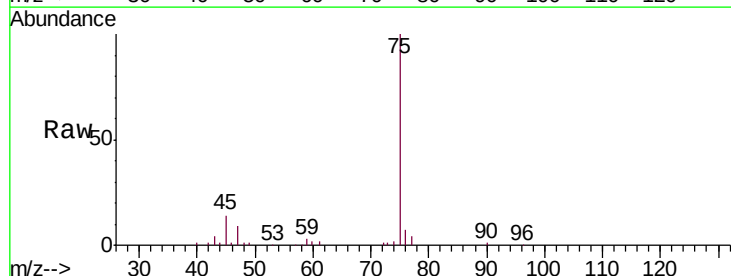
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0311SBL01

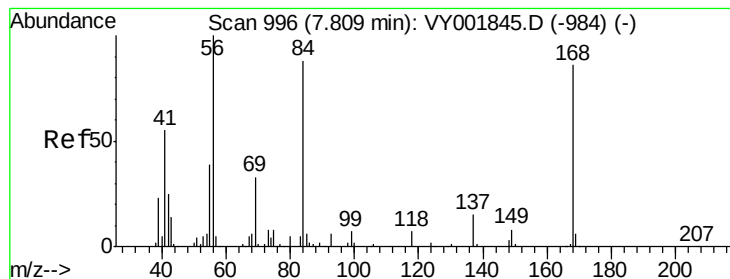
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 84    | Resp: | 7225  |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 115.6 | 98.2  | 147.2 |
| 51       | 36.7  | 30.2  | 45.2  |
| 86       | 61.0  | 48.9  | 73.3  |



#25  
2-Butanone  
Concen: 2.250 ug/l  
RT: 6.99 min Scan# 862  
Delta R.T. -0.02 min  
Lab File: VY001935.D  
Acq: 11 Mar 2020 12:00

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1522  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 22.8  | 20.9  | 31.3  |





#31

Cyclohexane

Concen: 1.058 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.01 min

Lab File: VY001935.D

Acq: 11 Mar 2020 12:00

Instrument :

MSVOA\_Y

ClientSampleId :

VY0311SBL01

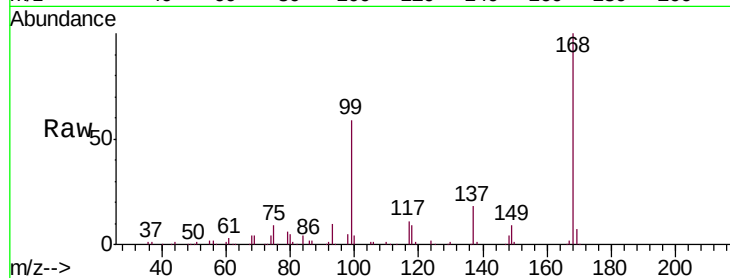
Tgt Ion: 56 Resp: 3551

Ion Ratio Lower Upper

56 100

69 149.1 26.7 40.1#

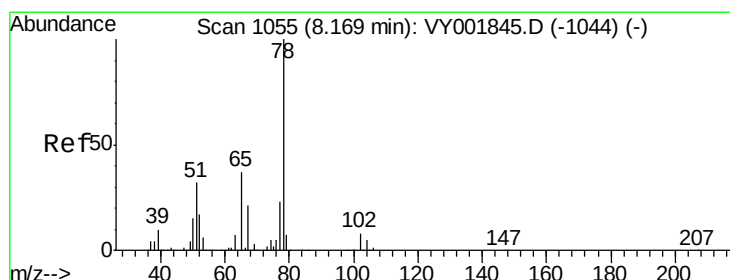
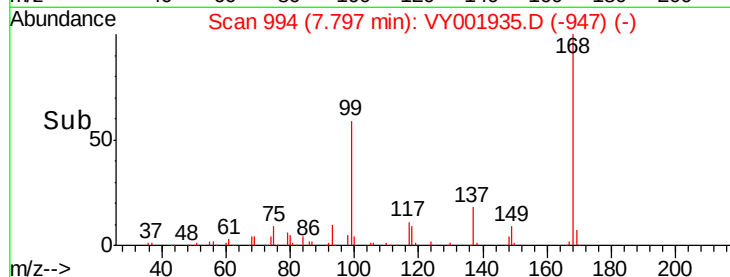
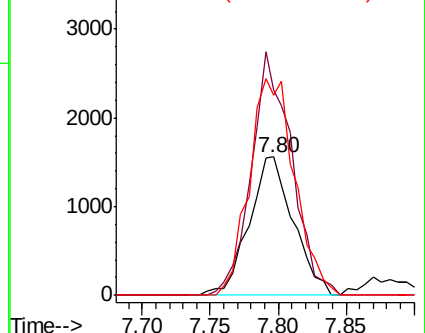
84 145.3 70.4 105.6#



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: 56.295 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.02 min

Lab File: VY001935.D

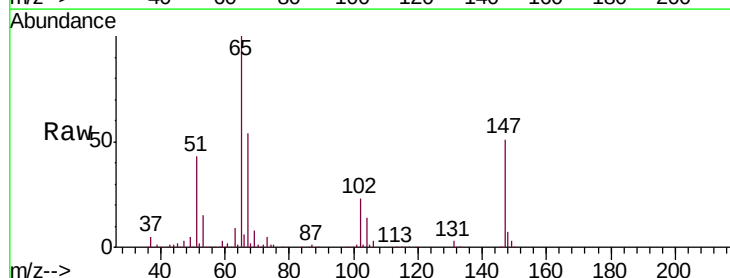
Acq: 11 Mar 2020 12:00

Tgt Ion: 65 Resp: 85965

Ion Ratio Lower Upper

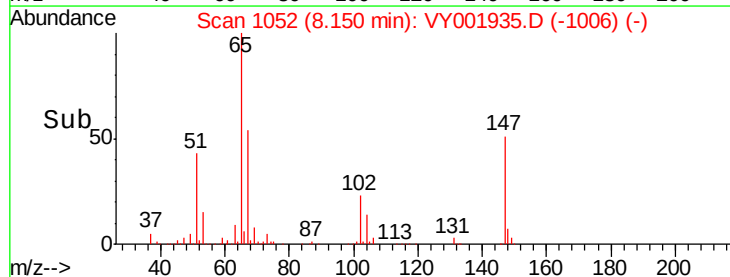
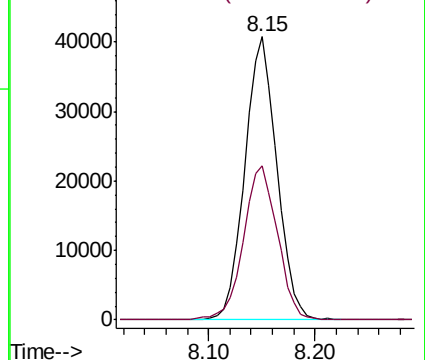
65 100

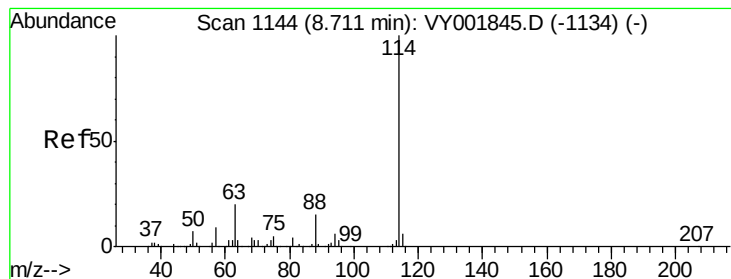
67 57.9 0.0 110.8



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: 8.69 min Scan# 1141

Delta R.T. -0.02 min

Lab File: VY001935.D

Acq: 11 Mar 2020 12:00

Instrument :

MSVOA\_Y

ClientSampleId :

VY0311SBL01

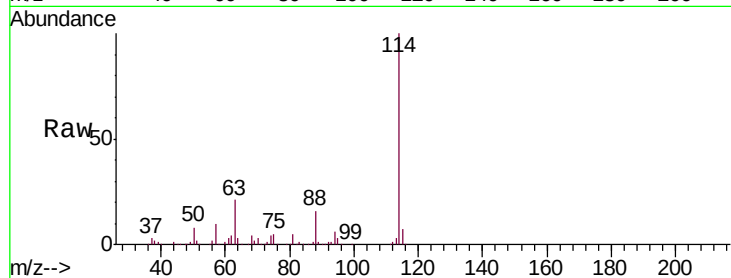
Tgt Ion:114 Resp: 276417

Ion Ratio Lower Upper

114 100

63 21.1 0.0 39.4

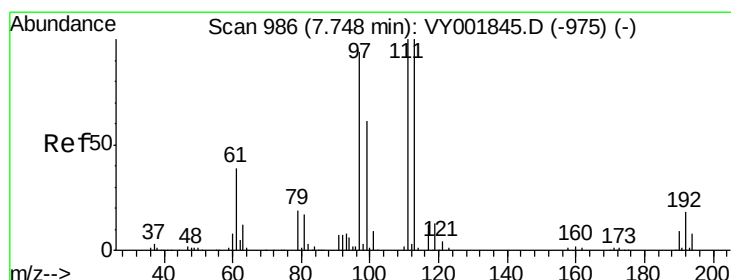
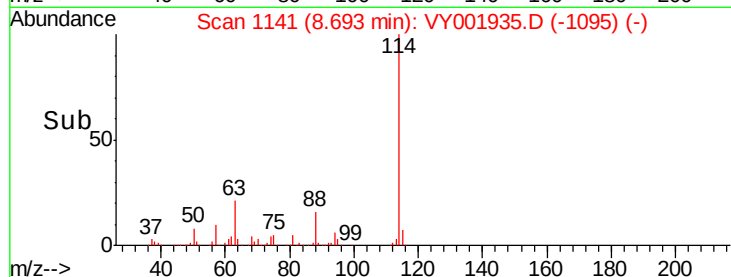
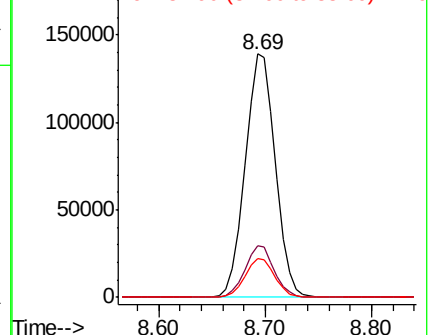
88 16.1 0.0 30.4



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: 53.672 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.02 min

Lab File: VY001935.D

Acq: 11 Mar 2020 12:00

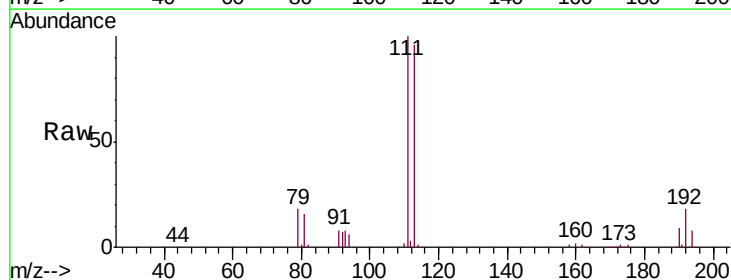
Tgt Ion:113 Resp: 81011

Ion Ratio Lower Upper

113 100

111 102.4 81.8 122.8

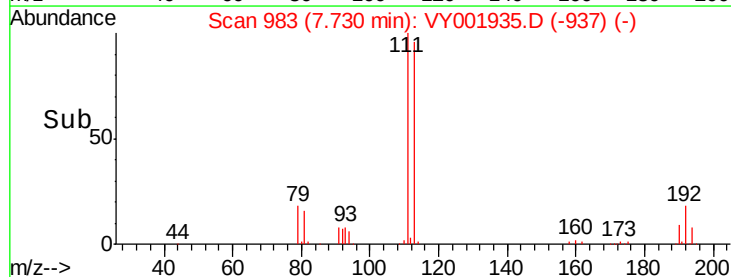
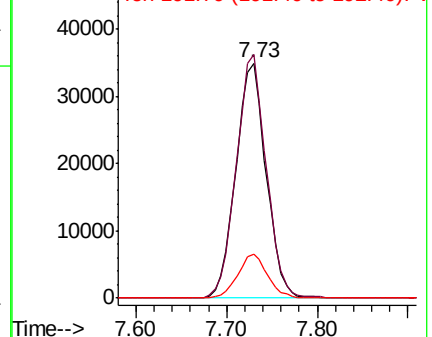
192 18.0 14.2 21.2

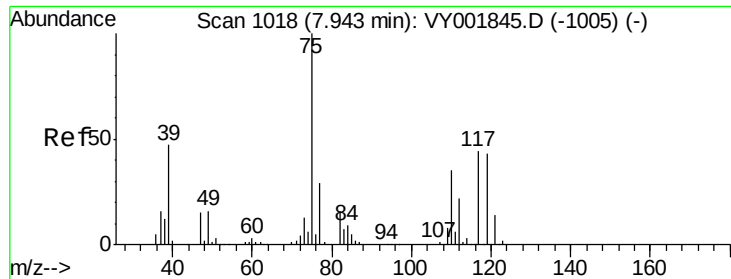


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

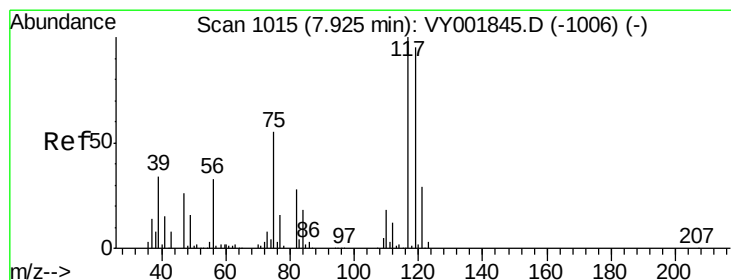
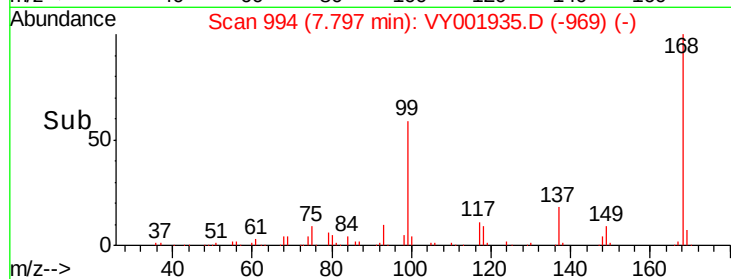
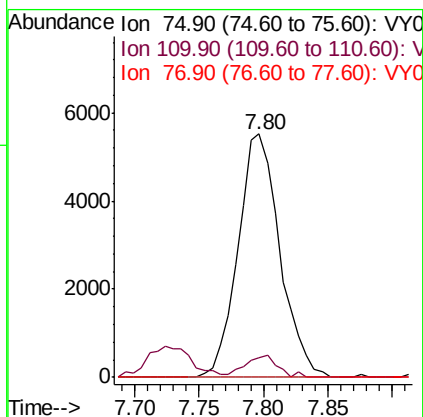
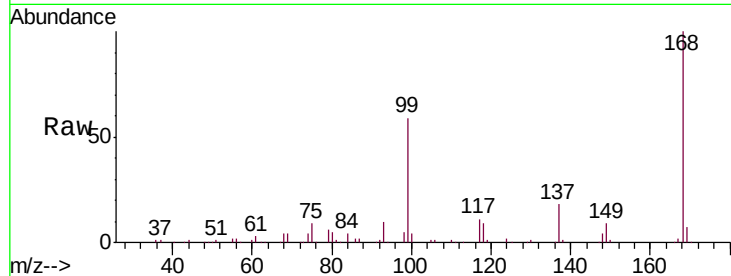




#36  
 1,1-Dichloropropene  
 Concen: 4.648 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.15 min  
 Lab File: VY001935.D  
 Acq: 11 Mar 2020 12:00

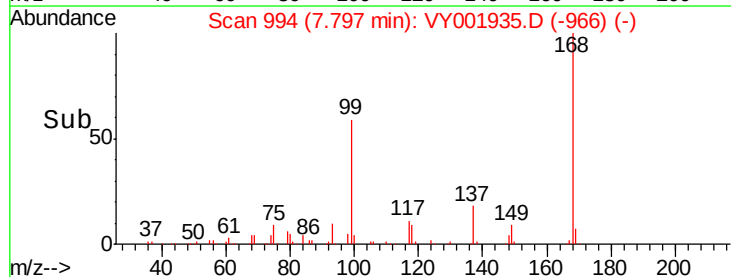
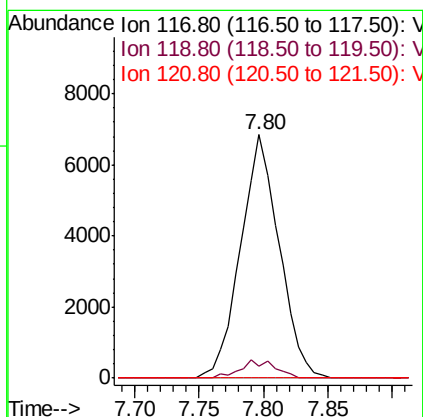
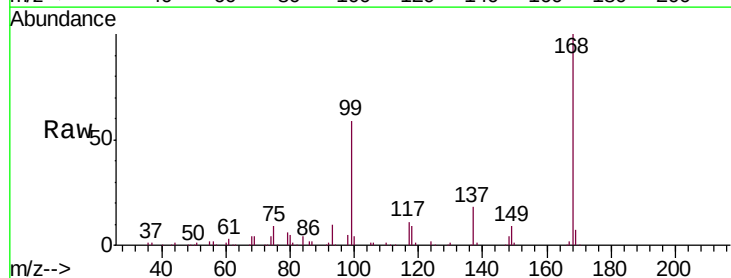
Instrument :  
 MSVOA\_Y  
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 VY0311SBL01

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 6.9   | 17.4  | 52.2# |
| 77      | 0.0   | 24.2  | 36.2# |

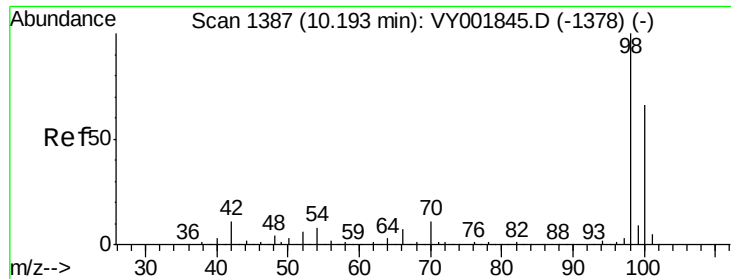


#38  
 Carbon Tetrachloride  
 Concen: 6.247 ug/l  
 RT: 7.80 min Scan# 994  
 Delta R.T. -0.13 min  
 Lab File: VY001935.D  
 Acq: 11 Mar 2020 12:00

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.7   | 76.3  | 114.5# |
| 121     | 0.0   | 23.5  | 35.3#  |







#50

Toluene-d8

Concen: 52.022 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.01 min

Lab File: VY001935.D

Acq: 11 Mar 2020 12:00

Instrument :

MSVOA\_Y

ClientSampleId :

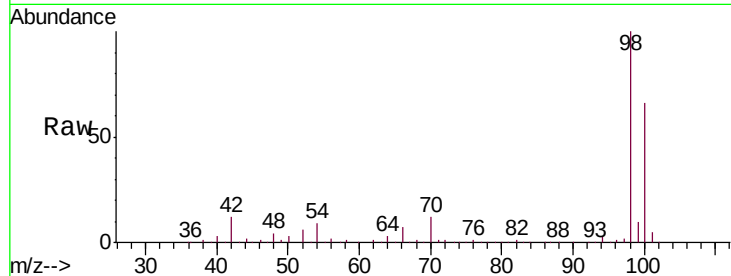
VY0311SBL01

Tgt Ion: 98 Resp: 331107

Ion Ratio Lower Upper

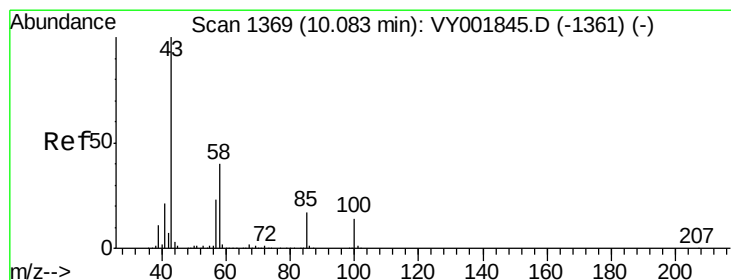
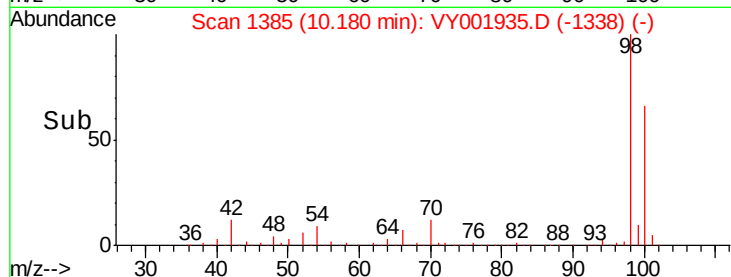
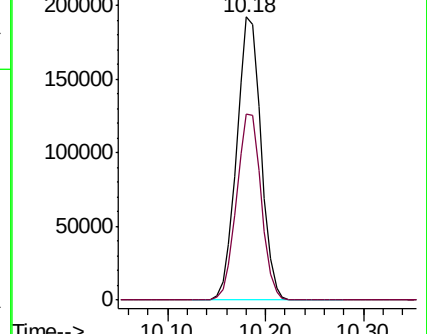
98 100

100 66.4 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: 1.670 ug/l

RT: 10.07 min Scan# 1367

Delta R.T. -0.01 min

Lab File: VY001935.D

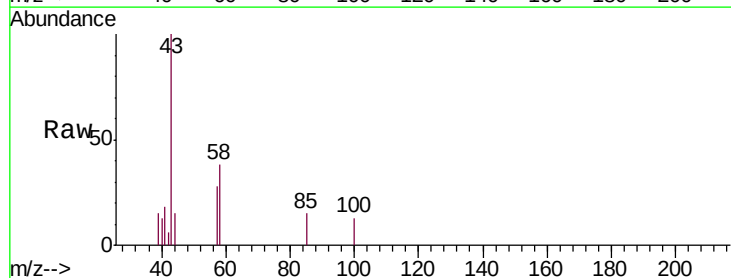
Acq: 11 Mar 2020 12:00

Tgt Ion: 43 Resp: 2517

Ion Ratio Lower Upper

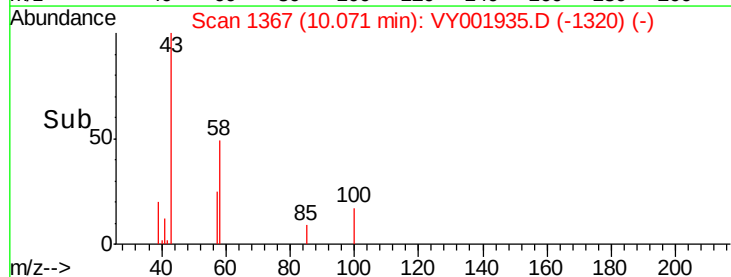
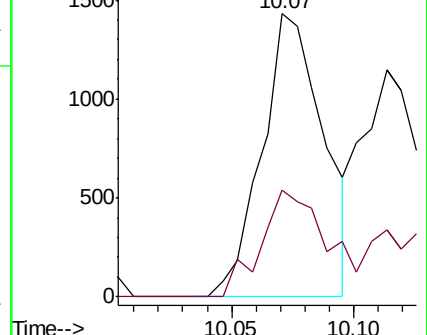
43 100

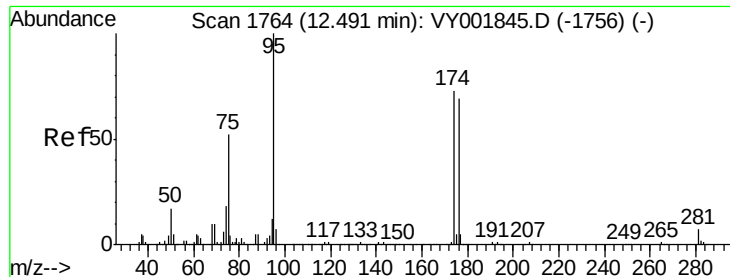
58 40.1 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

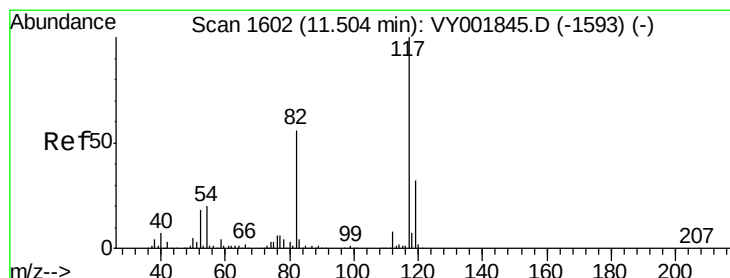
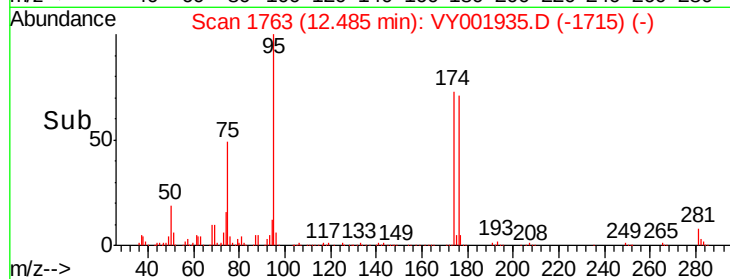
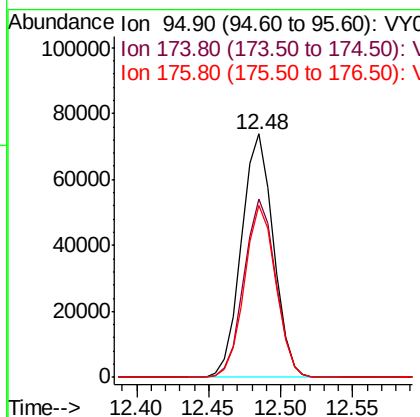
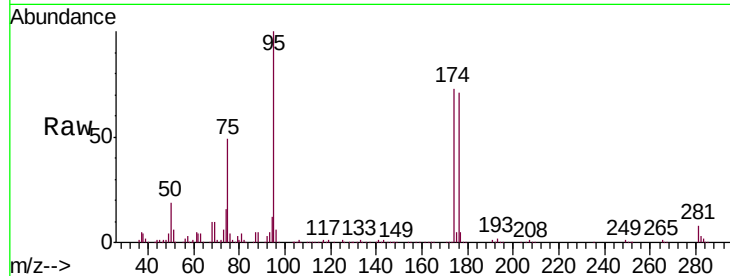




#62  
4-Bromofluorobenzene  
Concen: 51.197 ug/l  
RT: 12.48 min Scan# 1763  
Delta R.T. -0.01 min  
Lab File: VY001935.D  
Acq: 11 Mar 2020 12:00

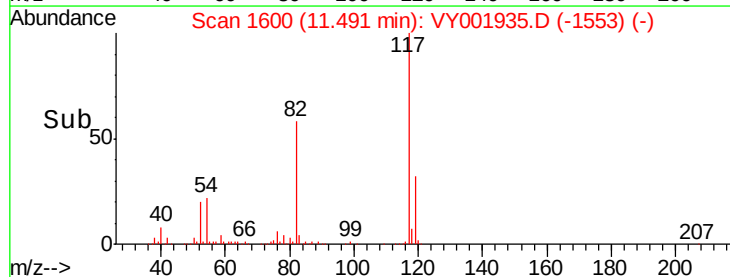
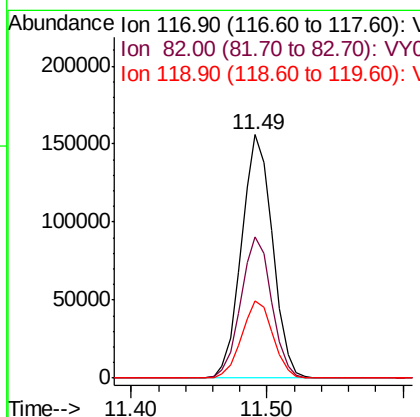
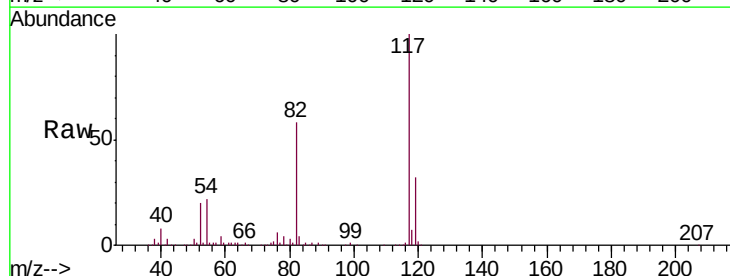
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0311SBL01

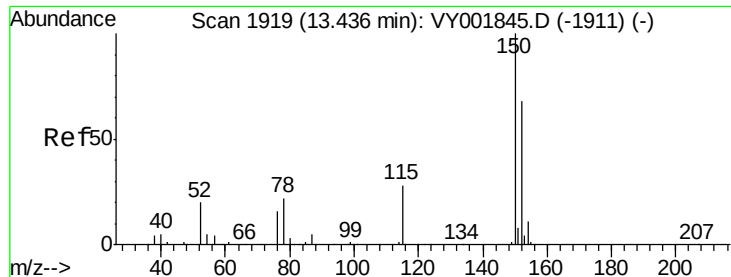
Tgt Ion: 95 Resp: 113304  
Ion Ratio Lower Upper  
95 100  
174 72.6 0.0 145.0  
176 69.3 0.0 137.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.01 min  
Lab File: VY001935.D  
Acq: 11 Mar 2020 12:00

Tgt Ion: 117 Resp: 248379  
Ion Ratio Lower Upper  
117 100  
82 58.2 44.5 66.7  
119 32.0 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. -0.01 min

Lab File: VY001935.D

Acq: 11 Mar 2020 12:00

Instrument :

MSVOA\_Y

ClientSampleId :

VY0311SBL01

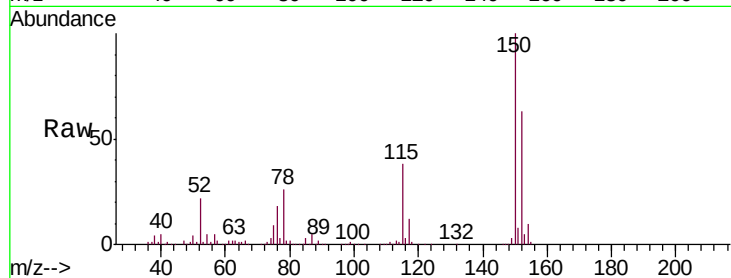
Tgt Ion:152 Resp: 109296

Ion Ratio Lower Upper

152 100

115 60.6 29.9 89.7

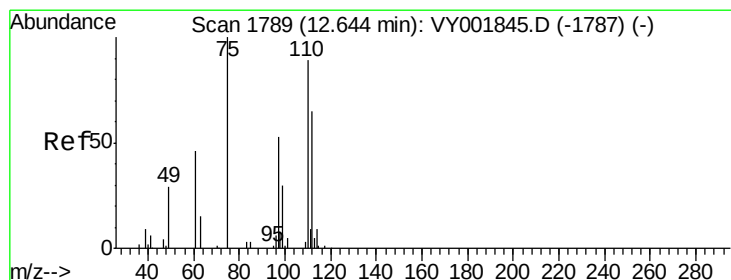
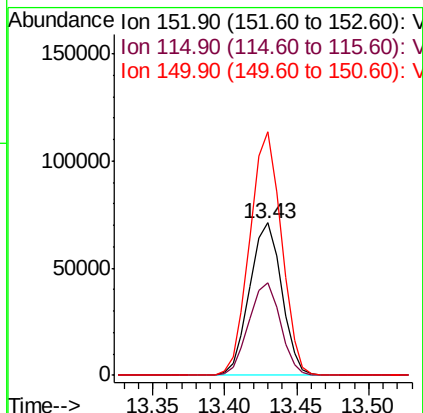
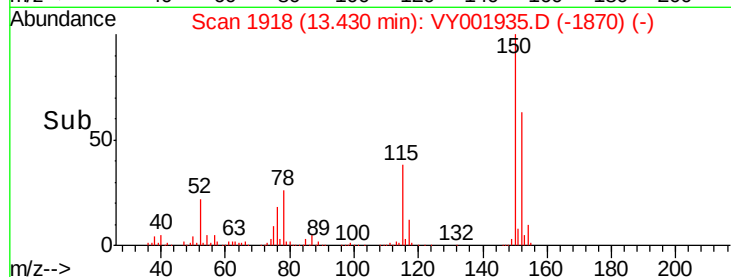
150 158.2 0.0 340.6



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: 43.772 ug/l

RT: 12.48 min Scan# 1763

Delta R.T. -0.16 min

Lab File: VY001935.D

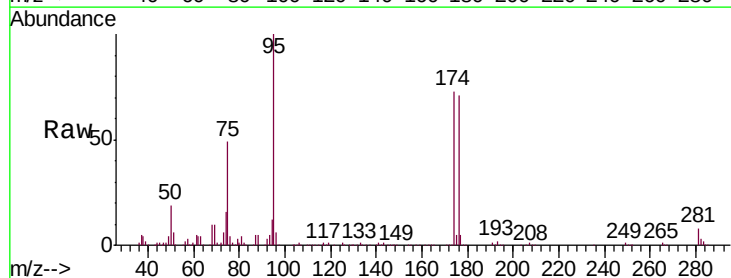
Acq: 11 Mar 2020 12:00

Tgt Ion: 75 Resp: 56766

Ion Ratio Lower Upper

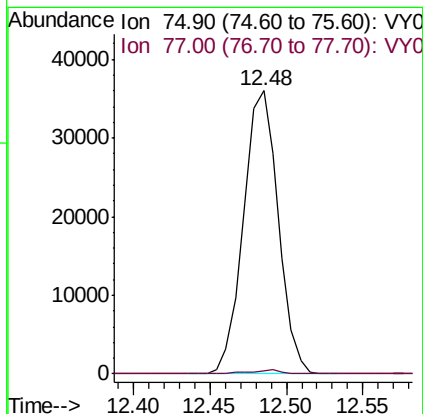
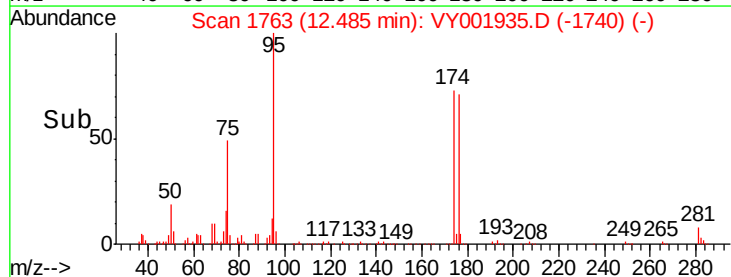
75 100

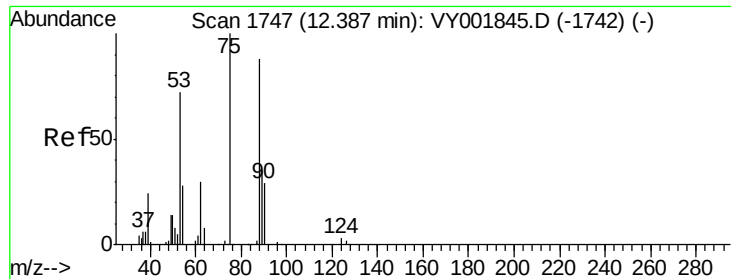
77 1.3 0.0 0.0#



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: 88.416 ug/l

RT: 12.48 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001935.D

Acq: 11 Mar 2020 12:00

Instrument :

MSVOA\_Y

ClientSampleId :

VY0311SBL01

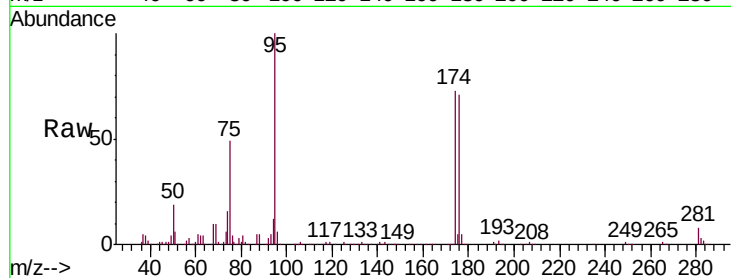
Tgt Ion: 75 Resp: 56766

Ion Ratio Lower Upper

75 100

53 0.0 65.4 98.0#

89 0.1 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

