

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY031820\  
 Data File : VY002003.D  
 Acq On : 18 Mar 2020 10:48  
 Operator : SY/MD  
 Sample : VY0318SBL01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0318SBL01

Quant Time: Mar 19 01:24:30 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  | 142518   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 271549   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 248450   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 108219   | 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   | 85013    | 55.88 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 111.76% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 79160    | 53.39 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.78% |          |
| 50) Toluene-d8              | 10.19 | 98   | 329751   | 52.74 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 105.48% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 112367   | 51.68 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 103.36% |          |

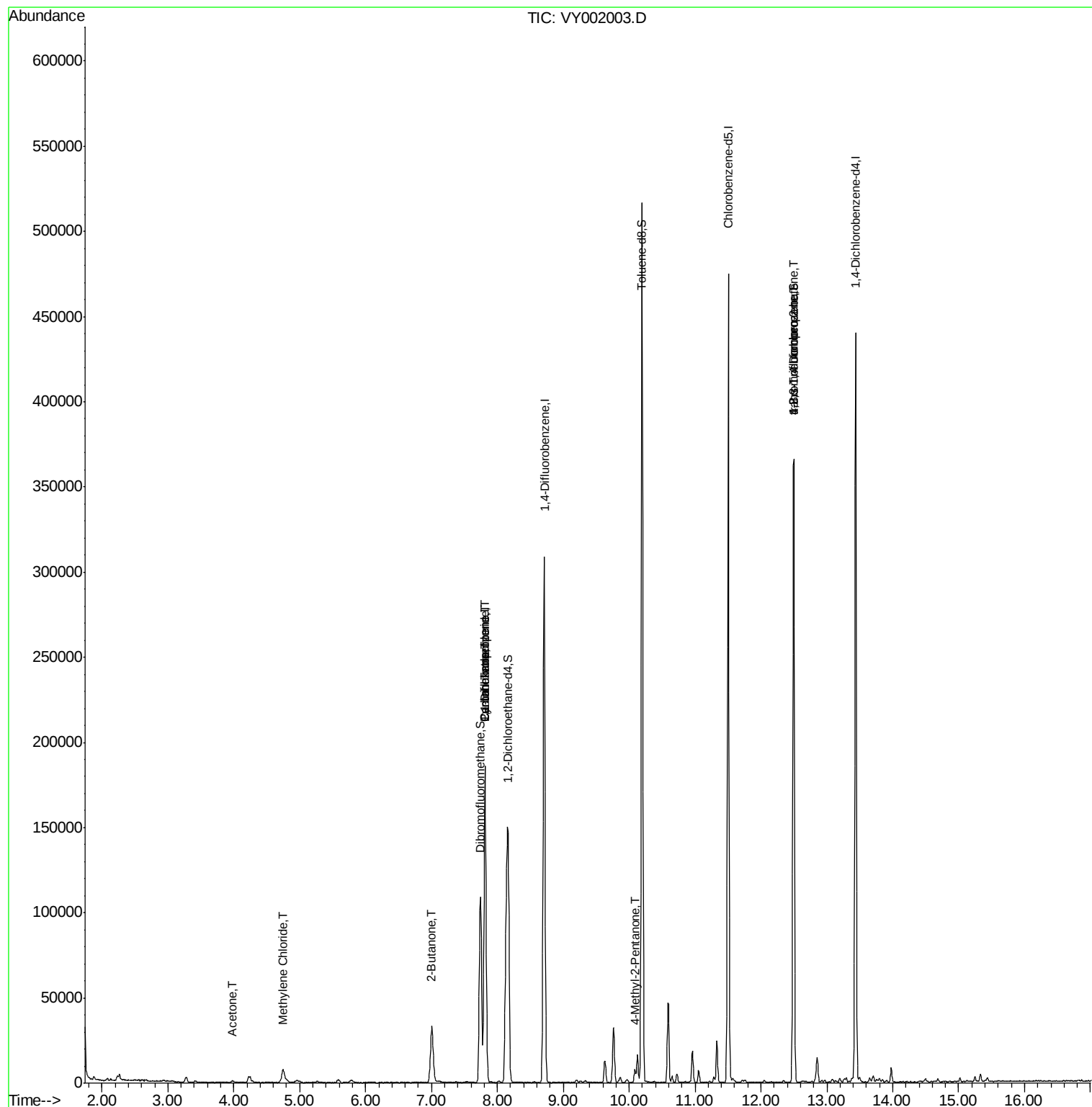
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.67  | 94   | 171      | Below Cal | #      | 64     |
| 11) Tert butyl alcohol         | 4.97  | 59   | 1301     | Below Cal | #      | 74     |
| 16) Acetone                    | 3.98  | 43   | 1760     | 3.972     | ug/l # | 87     |
| 20) Methylene Chloride         | 4.75  | 84   | 4990     | 2.627     | ug/l   | 97     |
| 25) 2-Butanone                 | 7.00  | 43   | 2025     | 3.005     | ug/l # | 67     |
| 31) Cyclohexane                | 7.82  | 56   | 3406     | 1.019     | ug/l # | 3      |
| 36) 1,1-Dichloropropene        | 7.82  | 75   | 12215    | 4.674     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.81  | 117  | 14355    | 6.431     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.09 | 43   | 5722     | 3.863     | ug/l   | 93     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 57019    | 44.404    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 57019    | 89.694    | ug/l # | 17     |

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

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Sample : VY0318SBL01  
Misc : 5.00G/5ML/MSVOA Y/SOIL  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0318SBL01

Quant Time: Mar 19 01:24:30 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: 50.000 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.00 min

Lab File: VY002003.D

Acq: 18 Mar 2020 10:48

Instrument :

MSVOA\_Y

ClientSampleId :

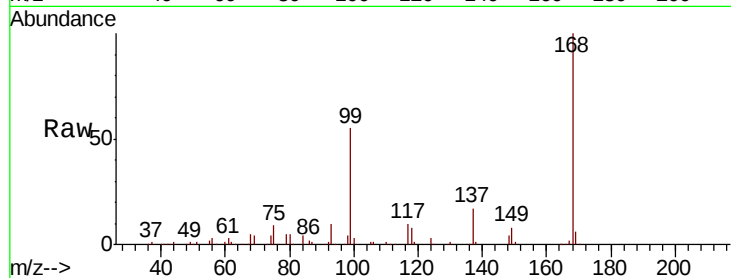
VY0318SBL01

Tot Ion:168 Resp: 142518

Ion Ratio Lower Upper

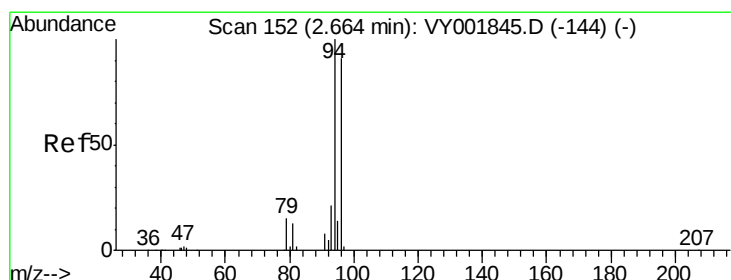
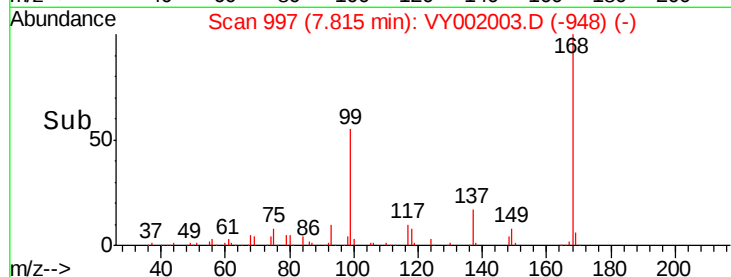
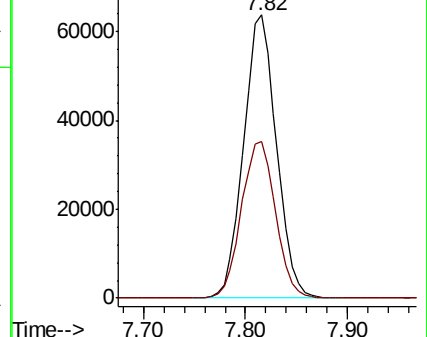
168 100

99 55.3 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: 2.67 min Scan# 153

Delta R.T. 0.01 min

Lab File: VY002003.D

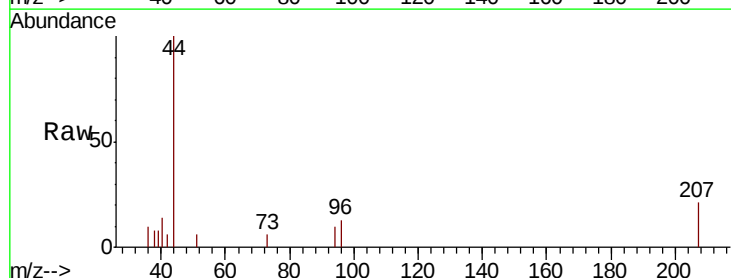
Acq: 18 Mar 2020 10:48

Tgt Ion: 94 Resp: 171

Ion Ratio Lower Upper

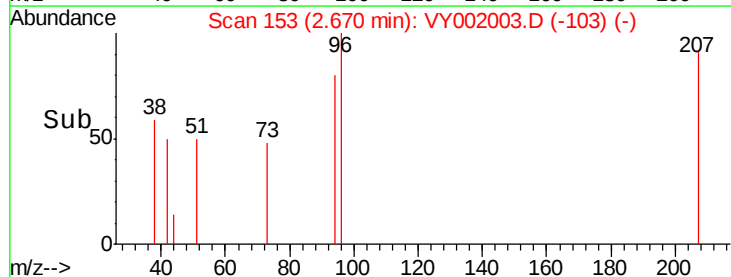
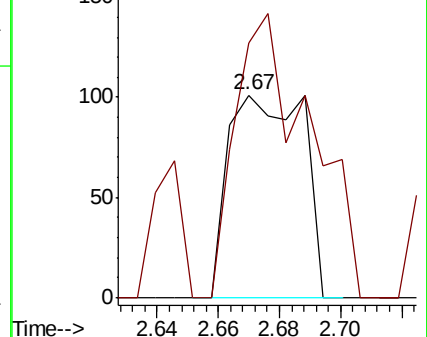
94 100

96 125.7 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) (-)



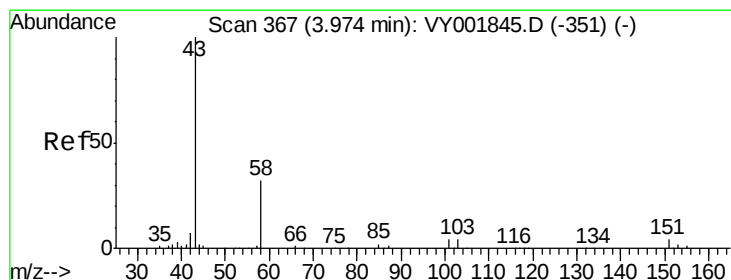
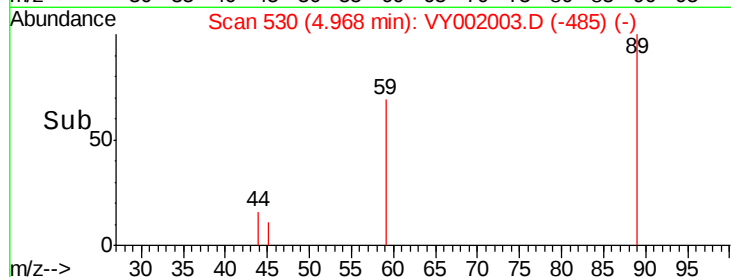
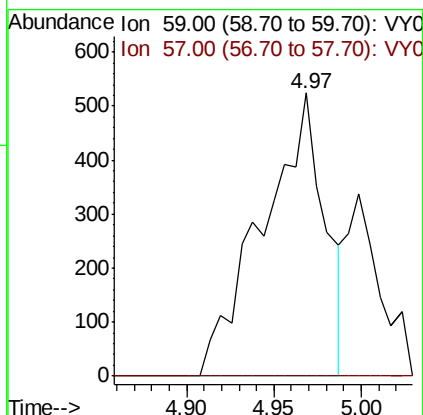
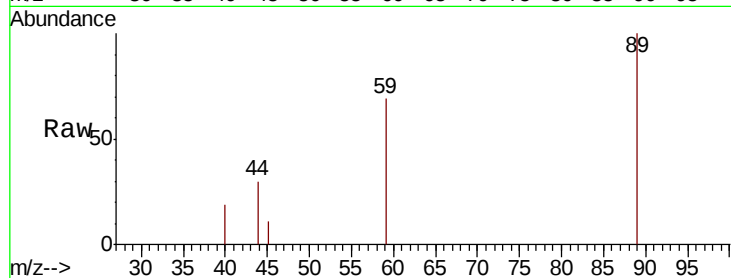


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 4.97 min Scan# 530  
 Delta R.T. -0.02 min  
 Lab File: VY002003.D  
 Acq: 18 Mar 2020 10:48

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VY0318SBL01

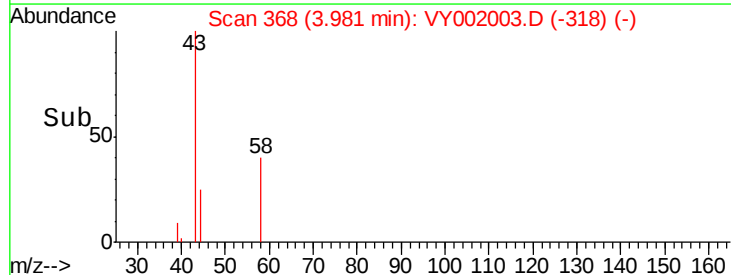
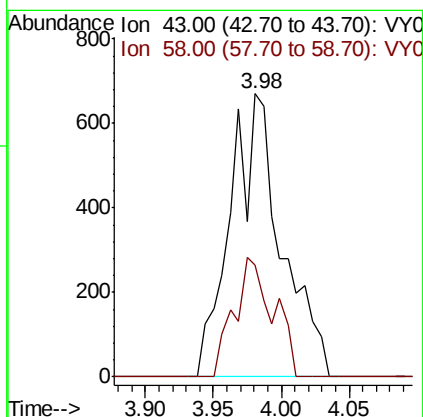
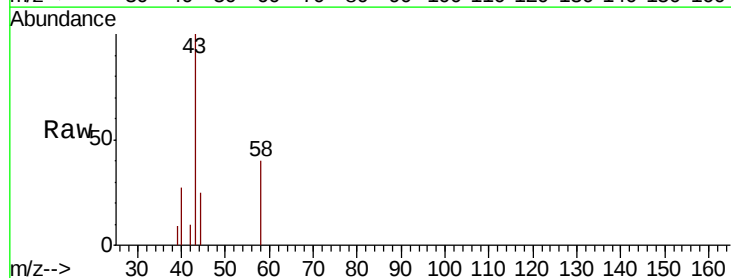
Tot Ion: 59 Resp: 1301  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.4 11.2#

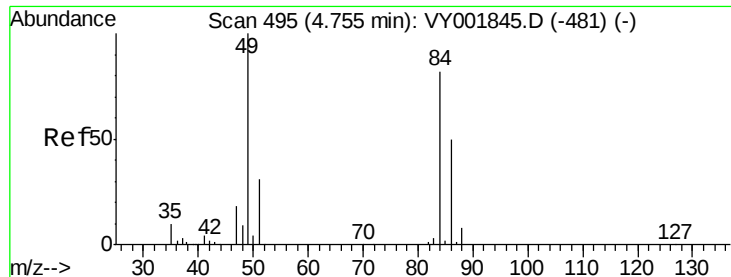


#16

Acetone  
 Concen: 3.972 ug/l  
 RT: 3.98 min Scan# 368  
 Delta R.T. 0.01 min  
 Lab File: VY002003.D  
 Acq: 18 Mar 2020 10:48

Tgt Ion: 43 Resp: 1760  
 Ion Ratio Lower Upper  
 43 100  
 58 39.7 25.9 38.9#

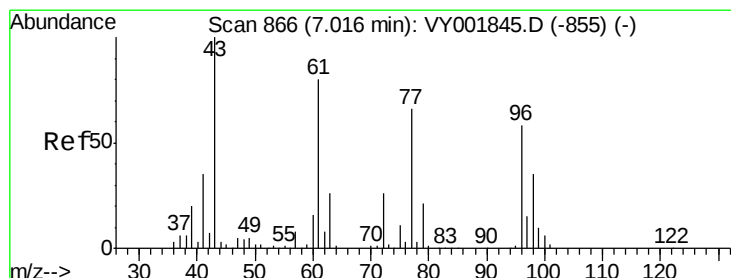
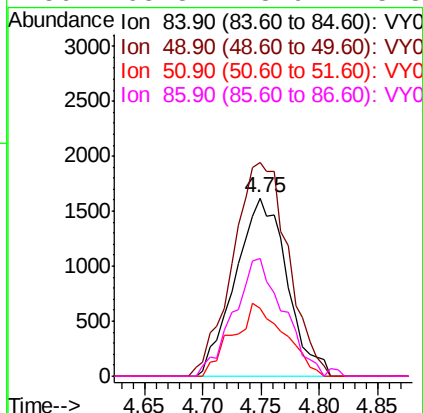
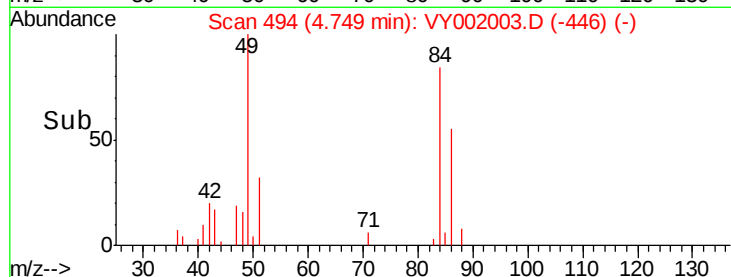
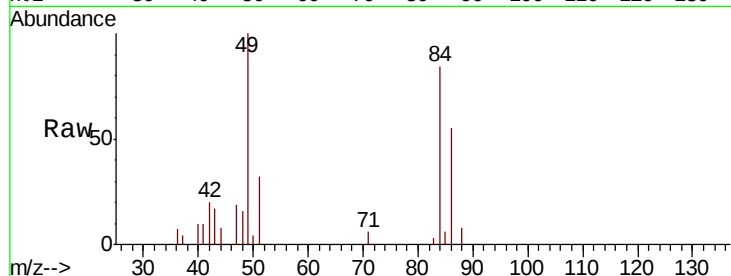




#20  
Methvlene Chloride  
Concen: 2.627 ug/l  
RT: 4.75 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VY002003.D  
Acq: 18 Mar 2020 10:48

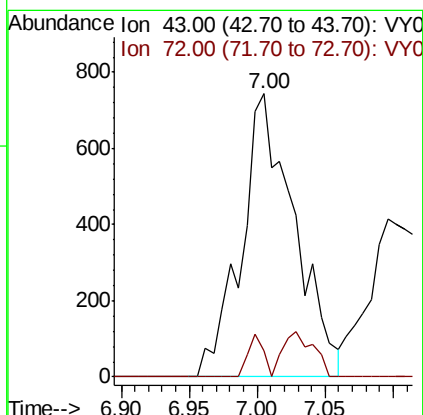
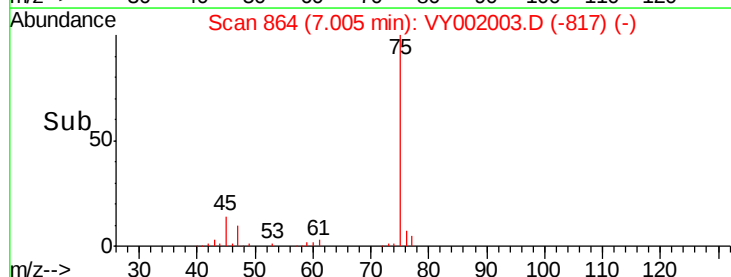
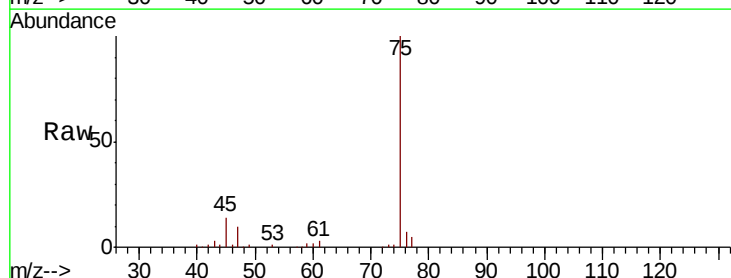
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0318SBL01

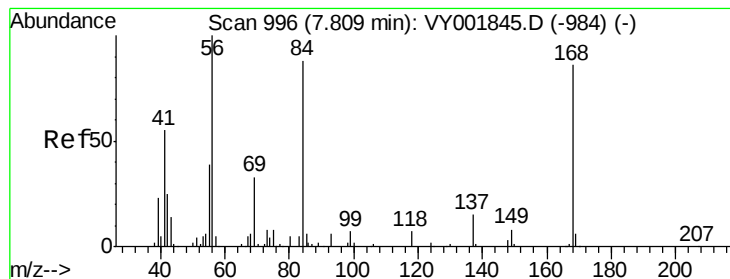
Tot Ion: 84 Resp: 4990  
Ion Ratio Lower Upper  
84 100  
49 119.7 98.2 147.2  
51 37.8 30.2 45.2  
86 65.8 48.9 73.3



#25  
2-Butanone  
Concen: 3.005 ug/l  
RT: 7.00 min Scan# 864  
Delta R.T. -0.01 min  
Lab File: VY002003.D  
Acq: 18 Mar 2020 10:48

Tgt Ion: 43 Resp: 2025  
Ion Ratio Lower Upper  
43 100  
72 9.3 20.9 31.3#





#31

Cyclohexane

Concen: 1.019 ug/l

RT: 7.82 min Scan# 997

Delta R.T. 0.01 min

Lab File: VY002003.D

Acq: 18 Mar 2020 10:48

Instrument :

MSVOA\_Y

ClientSampleId :

VY0318SBL01

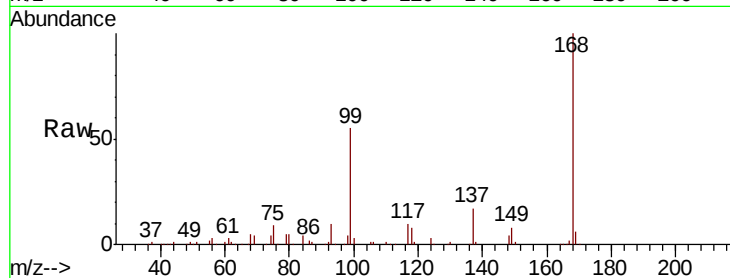
Tot Ion: 56 Resp: 3406

Ion Ratio Lower Upper

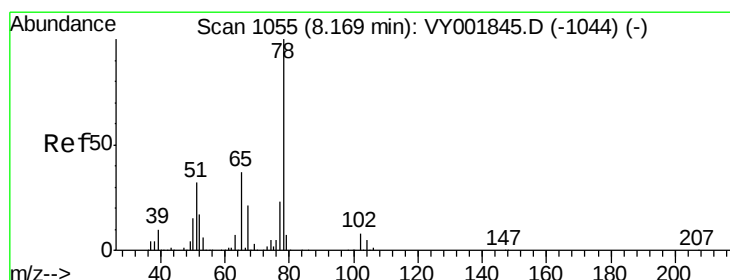
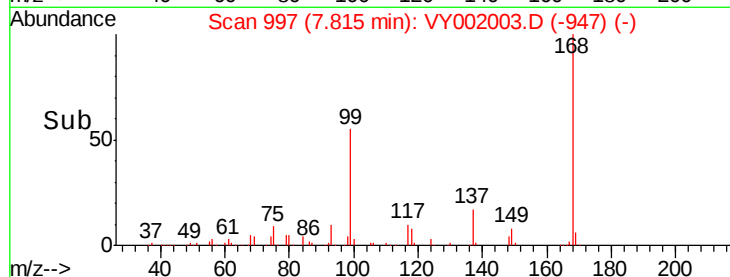
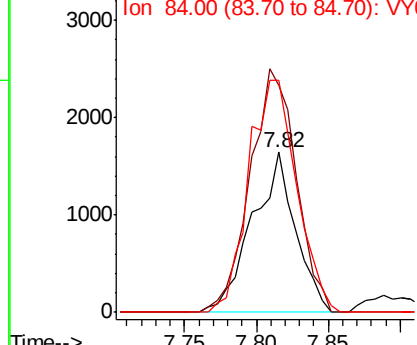
56 100

69 141.4 26.7 40.1#

84 144.8 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: 55.875 ug/l

RT: 8.16 min Scan# 1054

Delta R.T. -0.01 min

Lab File: VY002003.D

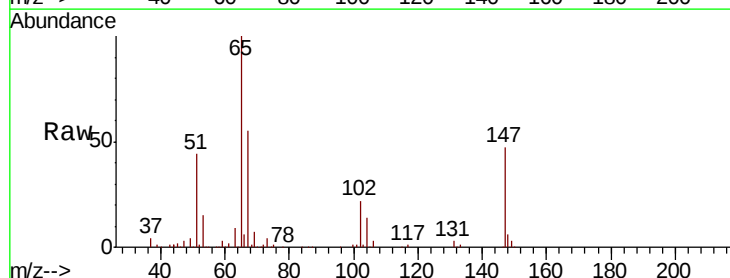
Acq: 18 Mar 2020 10:48

Tgt Ion: 65 Resp: 85013

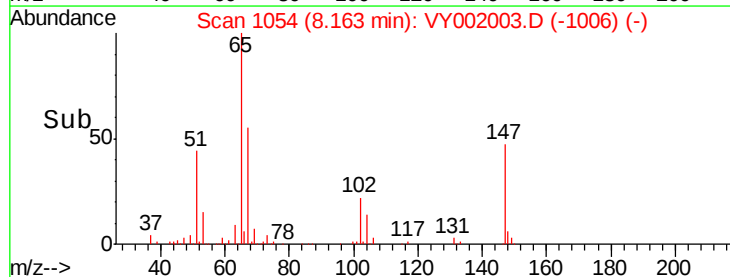
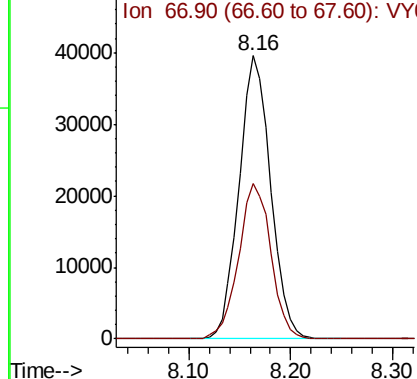
Ion Ratio Lower Upper

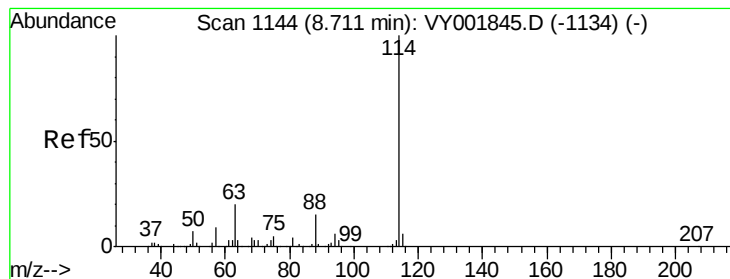
65 100

67 56.3 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# 1144

Delta R.T. 0.00 min

Lab File: VY002003.D

Acq: 18 Mar 2020 10:48

Instrument :

MSVOA\_Y

ClientSampleId :

VY0318SBL01

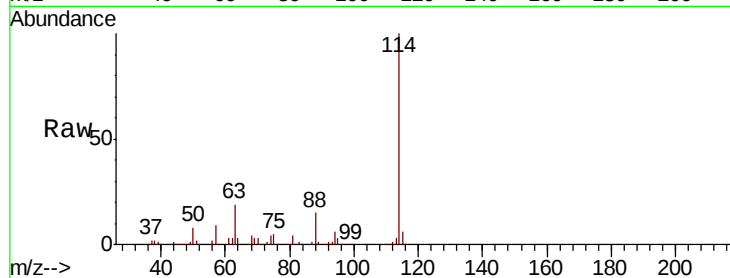
Tot Ion:114 Resp: 271549

Ion Ratio Lower Upper

114 100

63 19.0 0.0 39.4

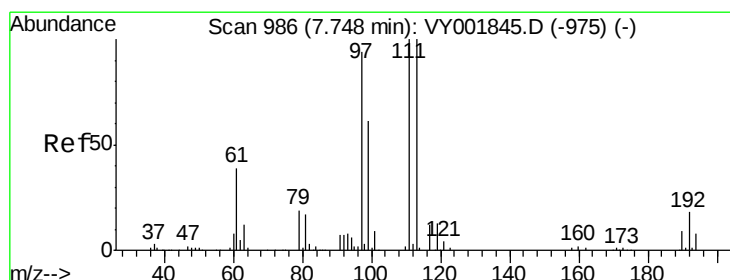
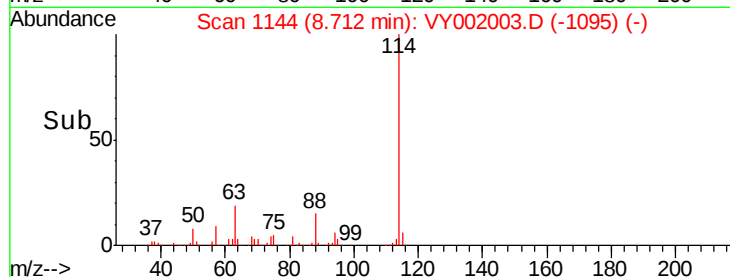
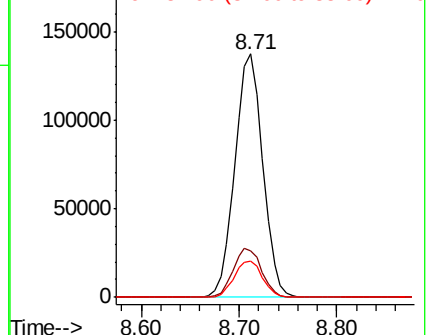
88 15.0 0.0 30.4



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: 53.386 ug/l

RT: 7.74 min Scan# 985

Delta R.T. -0.01 min

Lab File: VY002003.D

Acq: 18 Mar 2020 10:48

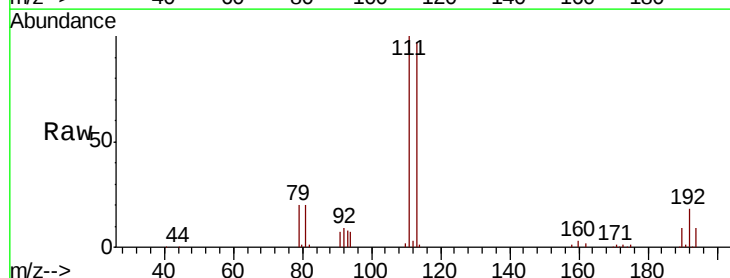
Tgt Ion:113 Resp: 79160

Ion Ratio Lower Upper

113 100

111 103.9 81.8 122.8

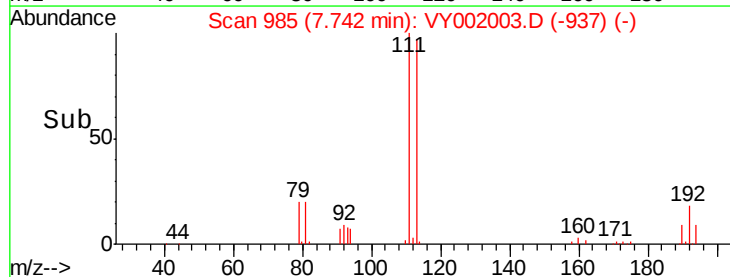
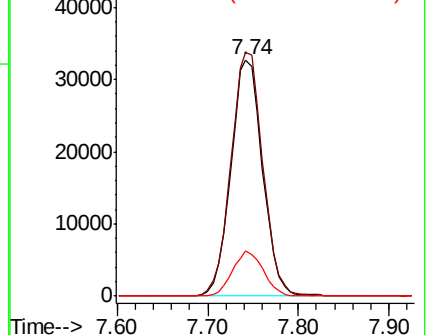
192 18.6 14.2 21.2

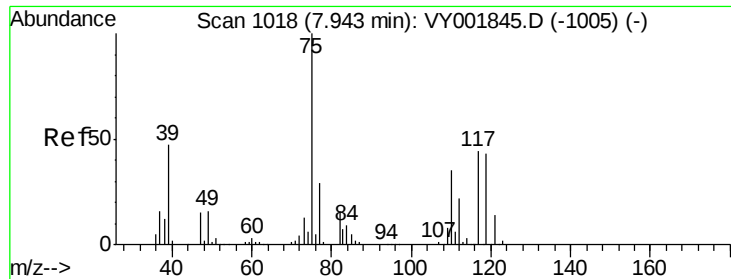


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V

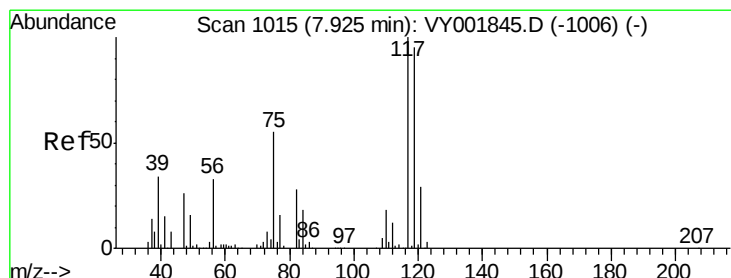
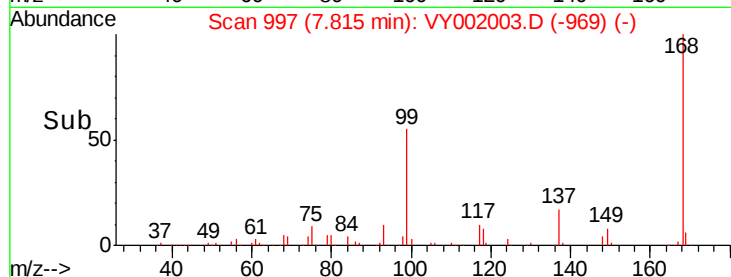
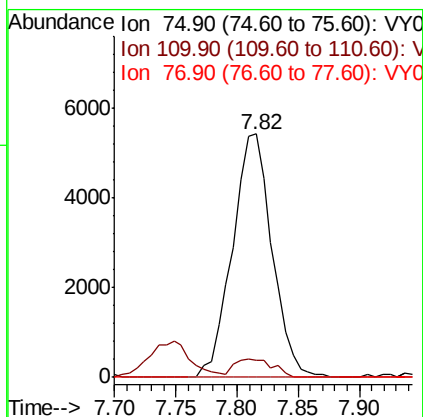
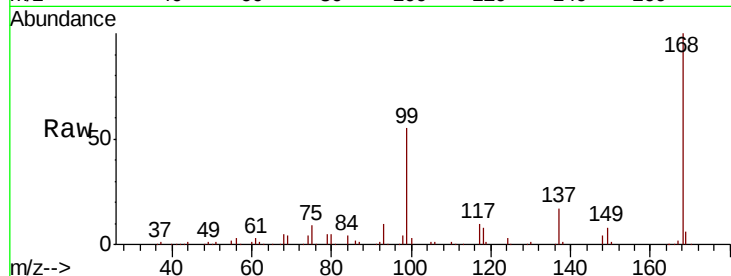




#36  
 1,1-Dichloropropene  
 Concen: 4.674 ug/l  
 RT: 7.82 min Scan# 997  
 Delta R.T. -0.13 min  
 Lab File: VY002003.D  
 Acq: 18 Mar 2020 10:48

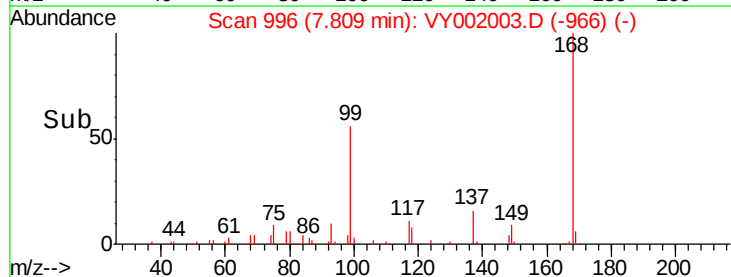
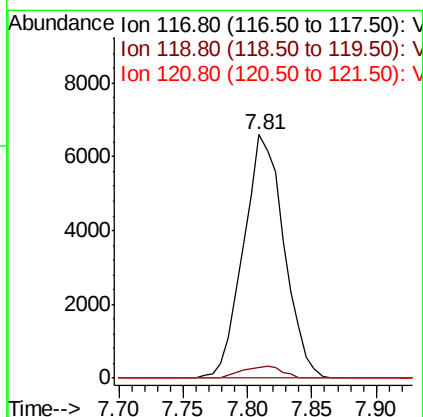
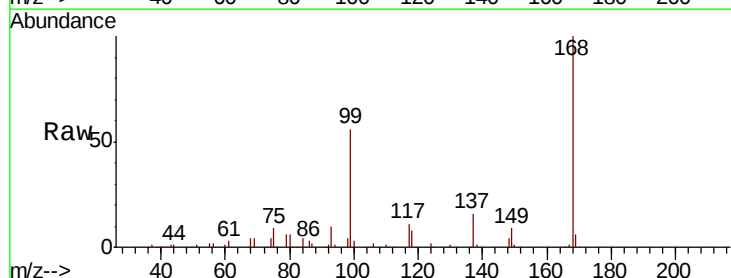
Instrument :  
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 VY0318SBL01

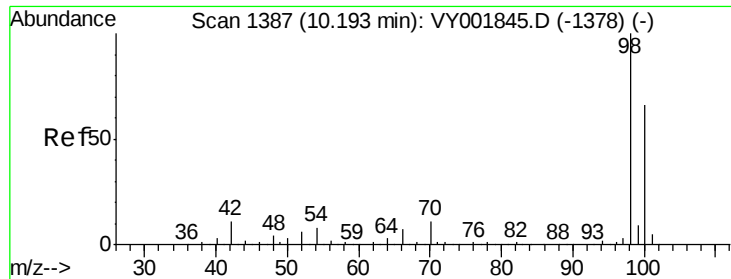
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 7.2   | 17.4  | 52.2# |
| 77      | 0.0   | 24.2  | 36.2# |



#38  
 Carbon Tetrachloride  
 Concen: 6.431 ug/l  
 RT: 7.81 min Scan# 996  
 Delta R.T. -0.12 min  
 Lab File: VY002003.D  
 Acq: 18 Mar 2020 10:48

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 117     | 100   |       |        |
| 119     | 4.3   | 76.3  | 114.5# |
| 121     | 0.0   | 23.5  | 35.3#  |





#50

Toluene-d8

Concen: 52.738 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VY002003.D

Acq: 18 Mar 2020 10:48

Instrument :

MSVOA\_Y

ClientSampleId :

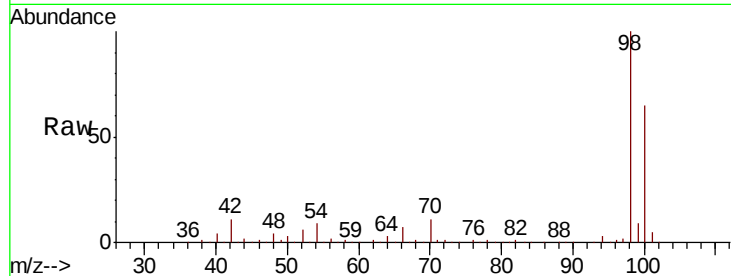
VY0318SBL01

Tot Ion: 98 Resp: 329751

Ion Ratio Lower Upper

98 100

100 65.7 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

200000

150000

100000

50000

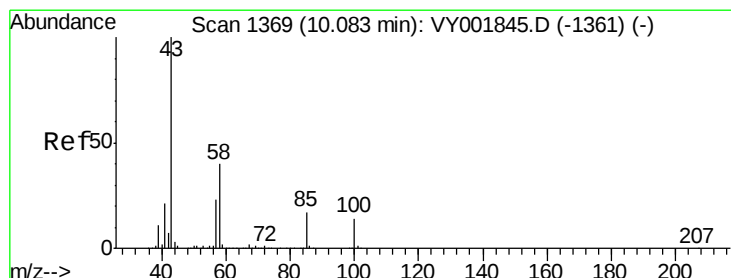
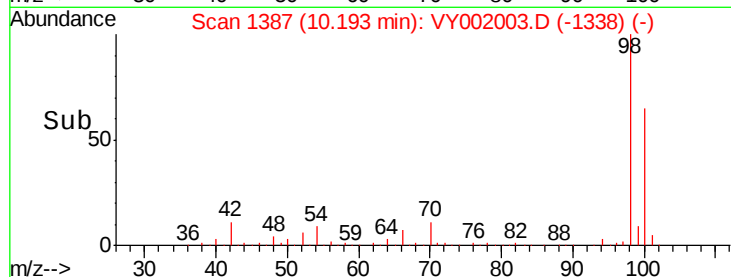
0

10.10

10.20

10.30

Time-->



#51

4-Methyl-2-Pentanone

Concen: 3.863 ug/l

RT: 10.09 min Scan# 1370

Delta R.T. 0.01 min

Lab File: VY002003.D

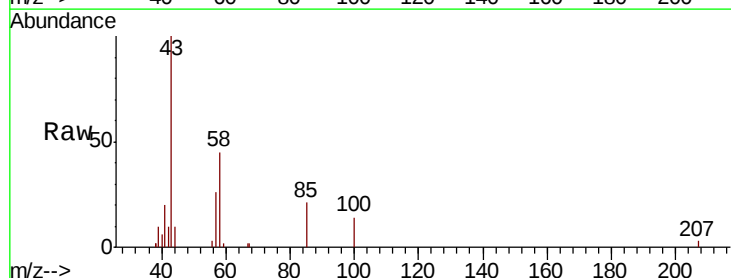
Acq: 18 Mar 2020 10:48

Tgt Ion: 43 Resp: 5722

Ion Ratio Lower Upper

43 100

58 44.1 32.0 48.0



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

3000

2000

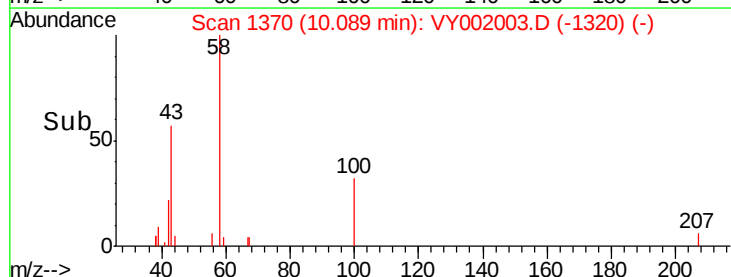
1000

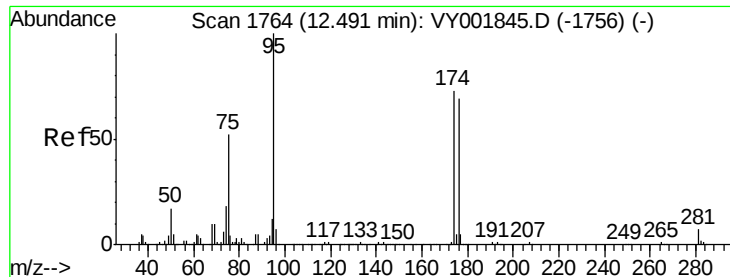
0

10.05

10.10

Time-->

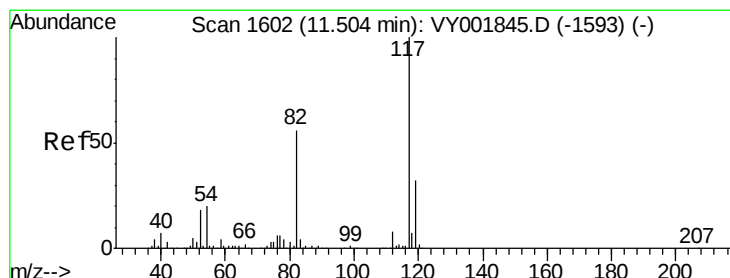
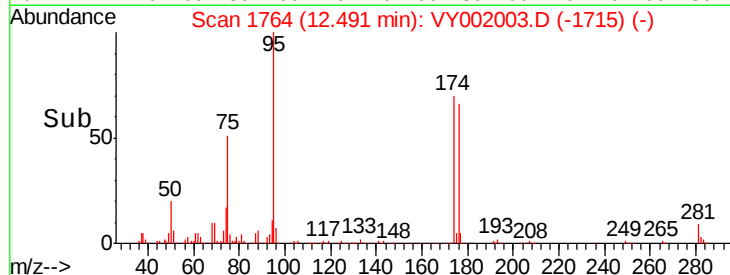
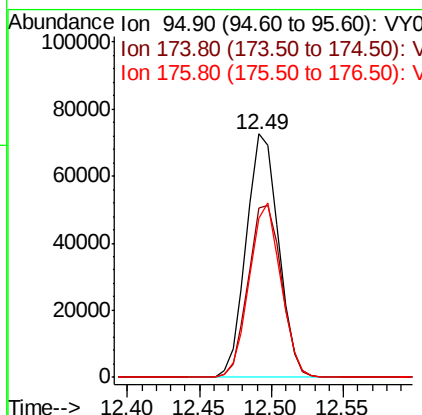
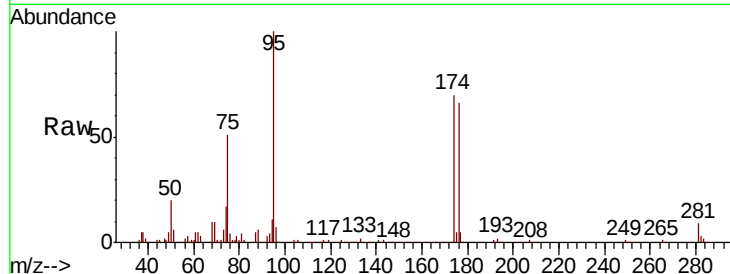




#62  
4-Bromofluorobenzene  
Concen: 51.684 ug/l  
RT: 12.49 min Scan# 1764  
Delta R.T. 0.00 min  
Lab File: VY002003.D  
Acq: 18 Mar 2020 10:48

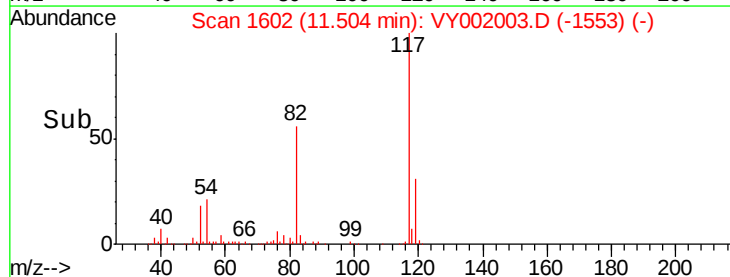
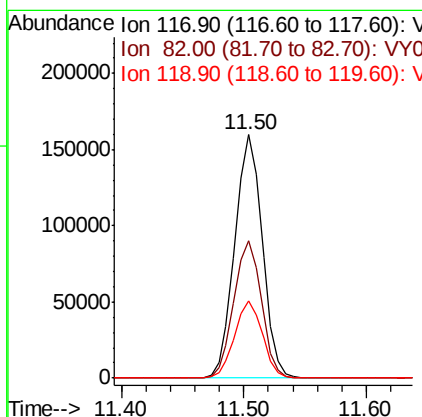
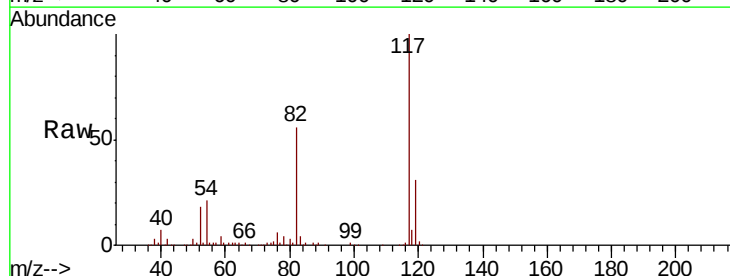
Instrument :  
MSVOA\_Y  
ClientSampleId :  
VY0318SBL01

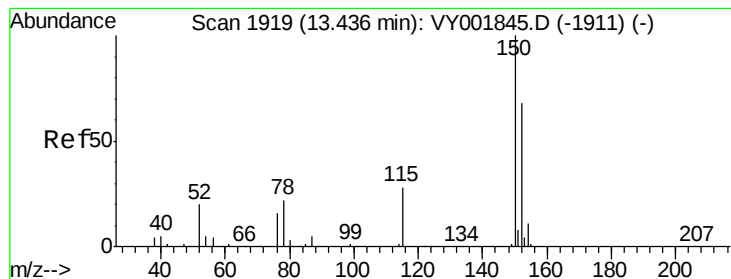
| Tot Ion   | 95   | Resp | 112367 |
|-----------|------|------|--------|
| Ion Ratio | 100  |      |        |
| Lower     |      |      |        |
| Upper     |      |      |        |
| 174       | 73.0 | 0.0  | 145.0  |
| 176       | 69.8 | 0.0  | 137.4  |



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1602  
Delta R.T. 0.00 min  
Lab File: VY002003.D  
Acq: 18 Mar 2020 10:48

| Tgt Ion                                    | 117  | Resp | 248450 |
|--------------------------------------------|------|------|--------|
| Ion Ratio <td>100</td> <td></td> <td></td> | 100  |      |        |
| Lower                                      |      |      |        |
| Upper                                      |      |      |        |
| 82                                         | 56.2 | 44.5 | 66.7   |
| 119                                        | 31.5 | 25.7 | 38.5   |





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. 0.00 min

Lab File: VY002003.D

Acq: 18 Mar 2020 10:48

Instrument :

MSVOA\_Y

ClientSampleId :

VY0318SBL01

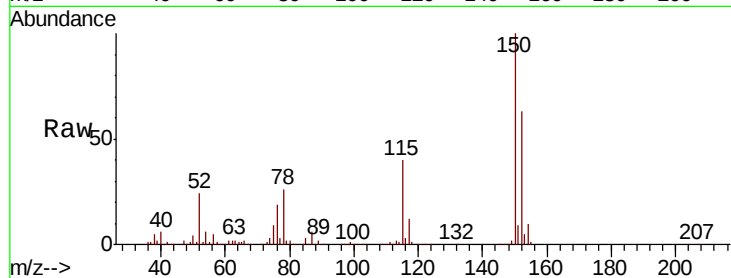
Tot Ion:152 Resp: 108219

Ion Ratio Lower Upper

152 100

115 60.8 29.9 89.7

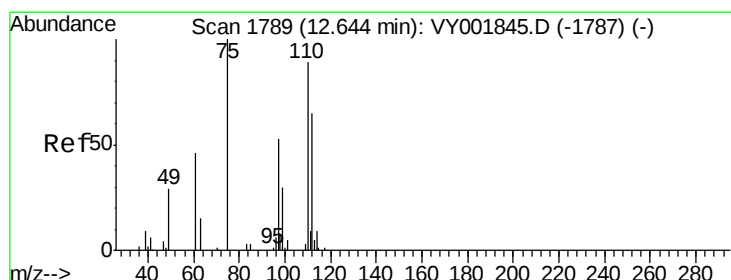
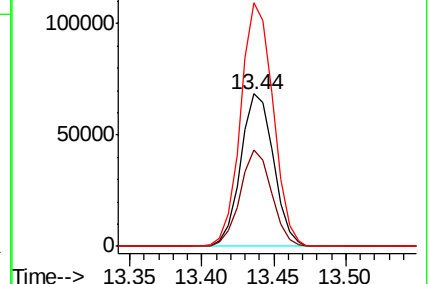
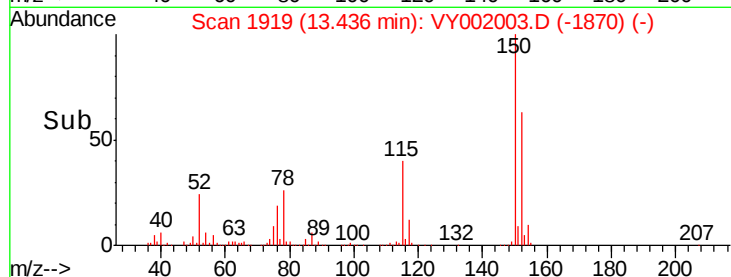
150 158.1 0.0 340.6



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: 44.404 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002003.D

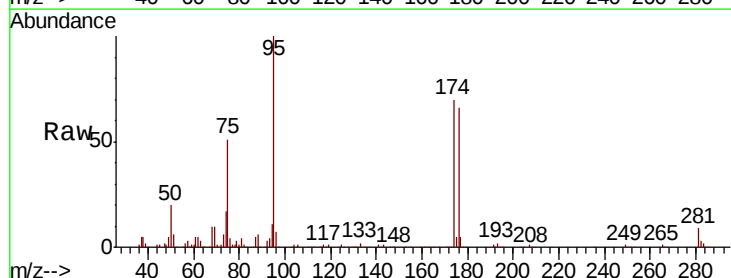
Acq: 18 Mar 2020 10:48

Tgt Ion: 75 Resp: 57019

Ion Ratio Lower Upper

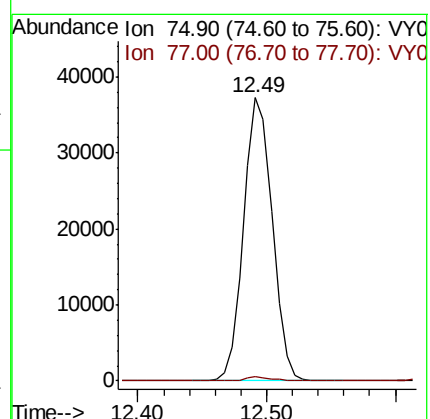
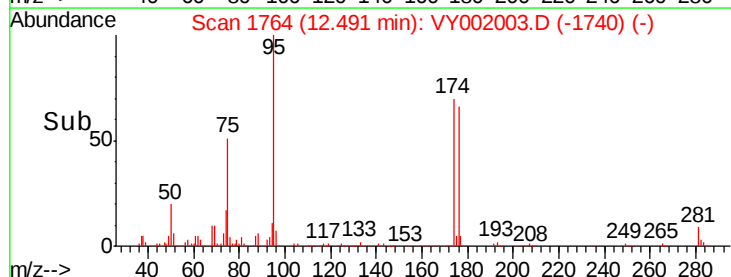
75 100

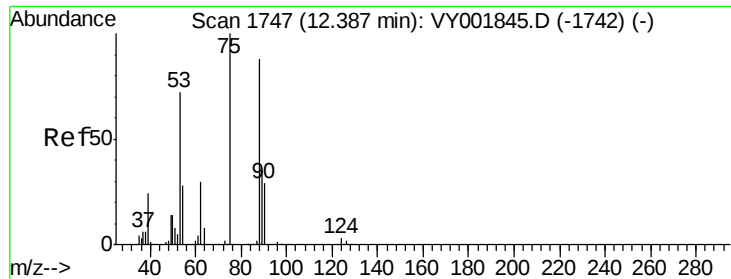
77 1.4 0.0 0.0#



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: 89.694 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002003.D

Acq: 18 Mar 2020 10:48

Instrument :

MSVOA\_Y

ClientSampleId :

VY0318SBL01

Tot Ion: 75 Resp: 57019

Ion Ratio Lower Upper

75 100

53 0.0 65.4 98.0#

89 0.4 36.0 54.0#

