

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY070920\  
 Data File : VY003153.D  
 Acq On : 09 Jul 2020 18:57  
 Operator : SY/MD  
 Sample : L3258-01  
 Misc : 5.00G/5ML/MSVOA Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 20200414-1

Quant Time: Jul 10 03:46:06 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y062920S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jun 30 04:11:35 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 296115   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 476445   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 465913   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 230078   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.15   | 65  | 154591   | 52.56 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.12% |      |
| 35) Dibromofluoromethane  | 7.72   | 113 | 157354   | 52.94 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 105.88% |      |
| 50) Toluene-d8            | 10.18  | 98  | 574786   | 51.91 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 103.82% |      |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 210086   | 53.90 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 107.80% |      |

## Target Compounds

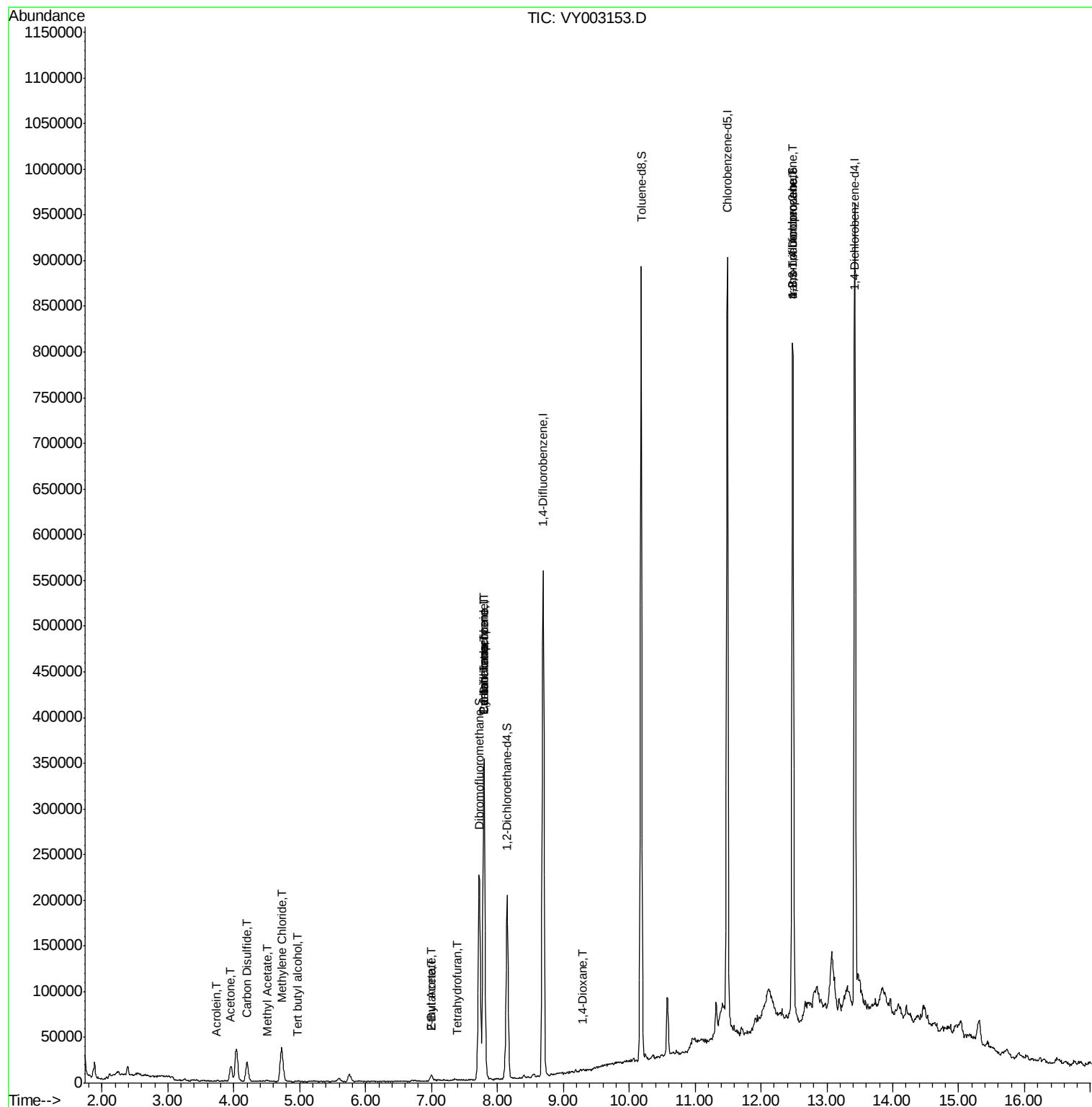
|                                |       |     |        |        |        | Qvalue |
|--------------------------------|-------|-----|--------|--------|--------|--------|
| 11) Tert butyl alcohol         | 4.97  | 59  | 683    | 2.279  | ug/l # | 73     |
| 13) Acrolein                   | 3.73  | 56  | 776    | 2.883  | ug/l   | 90     |
| 16) Acetone                    | 3.95  | 43  | 29036  | 41.861 | ug/l   | 94     |
| 17) Carbon Disulfide           | 4.20  | 76  | 43225  | 5.267  | ug/l   | 100    |
| 18) Methyl Acetate             | 4.50  | 43  | 2330   | 1.247  | ug/l # | 83     |
| 20) Methylene Chloride         | 4.72  | 84  | 28407  | 2.564  | ug/l   | 94     |
| 25) 2-Butanone                 | 6.99  | 43  | 11107  | 10.080 | ug/l   | 91     |
| 29) Tetrahydrofuran            | 7.38  | 42  | 932    | 1.272  | ug/l # | 59     |
| 31) Cyclohexane                | 7.80  | 56  | 5516   | 1.066  | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.79  | 75  | 20185  | 4.398  | ug/l # | 52     |
| 37) Ethyl Acetate              | 6.99  | 43  | 11107  | 4.025  | ug/l # | 71     |
| 38) Carbon Tetrachloride       | 7.79  | 117 | 26351  | 5.519  | ug/l # | 18     |
| 49) 1,4-Dioxane                | 9.30  | 88  | 465    | 20.177 | ug/l # | 23     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75  | 104607 | 45.939 | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75  | 104607 | 89.379 | ug/l # | 12     |

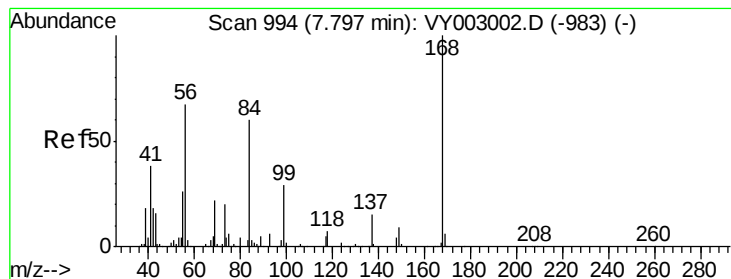
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Sample : L3258-01  
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ALS Vial : 14 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
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20200414-1

Quant Time: Jul 10 03:46:06 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y062920S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jun 30 04:11:35 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY003153.D

Acq: 09 Jul 2020 18:57

Instrument :

MSVOA\_Y

ClientSampleId :

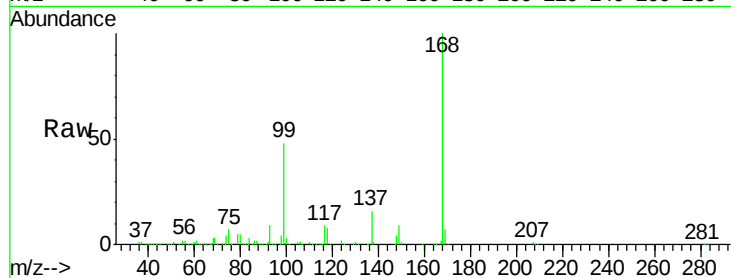
20200414-1

Tot Ion:168 Resp: 296115

Ion Ratio Lower Upper

168 100

99 48.2 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY003153.D (-945) (-)

Ion 98.90 (98.60 to 99.60): VY003153.D (-945) (-)

7.80

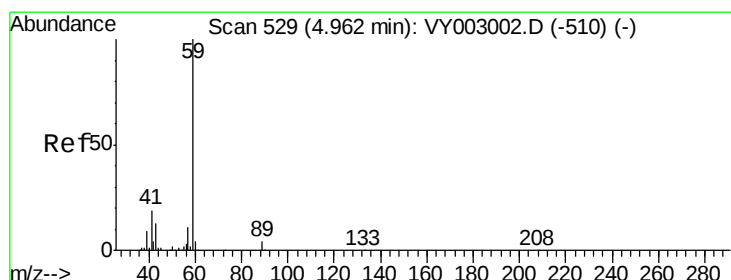
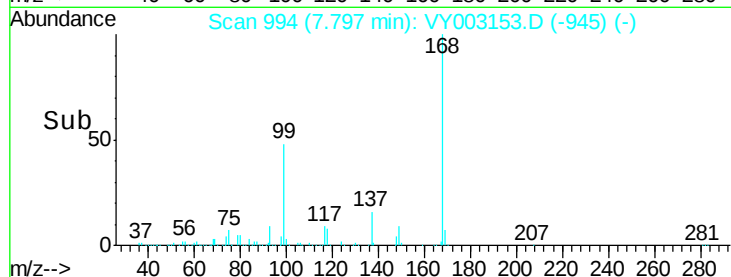
150000

100000

50000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.279 ug/l

RT: 4.97 min Scan# 530

Delta R.T. 0.01 min

Lab File: VY003153.D

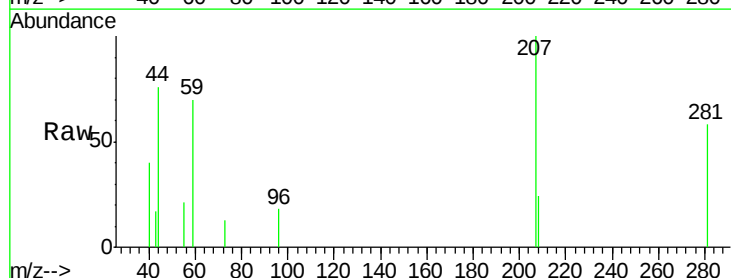
Acq: 09 Jul 2020 18:57

Tgt Ion: 59 Resp: 683

Ion Ratio Lower Upper

59 100

57 0.0 8.0 12.0#



Abundance Ion 59.00 (58.70 to 59.70): VY003153.D (-480) (-)

Ion 57.00 (56.70 to 57.70): VY003153.D (-480) (-)

4.97

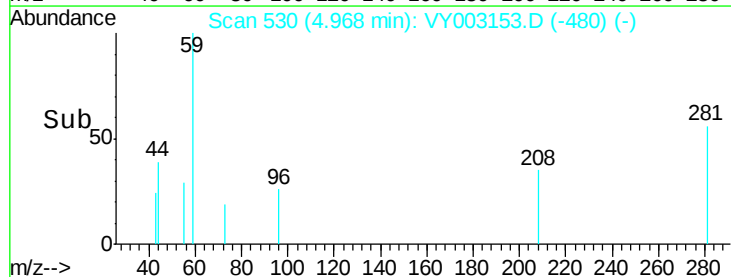
300

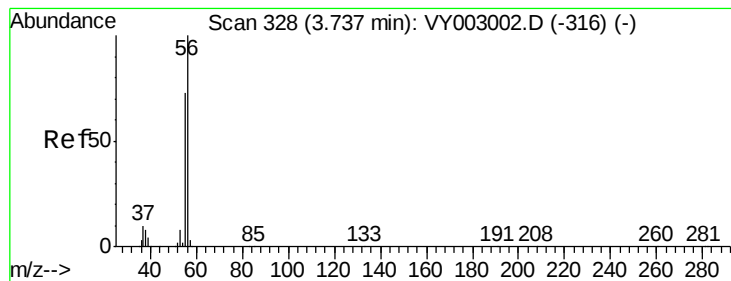
200

100

0

Time-->





#13

Acrolein

Concen: 2.883 ug/l

RT: 3.73 min Scan# 327

Delta R.T. -0.01 min

Lab File: VY003153.D

Acq: 09 Jul 2020 18:57

Instrument :

MSVOA\_Y

ClientSampleId :

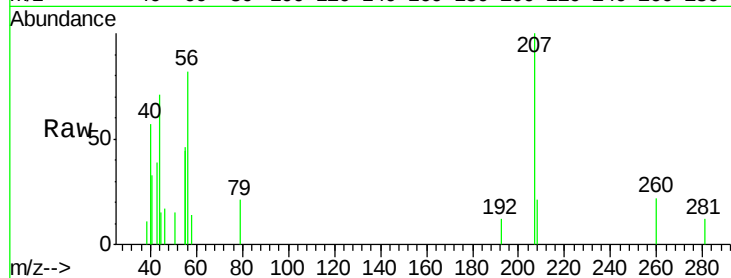
20200414-1

Tot Ion: 56 Resp: 776

Ion Ratio Lower Upper

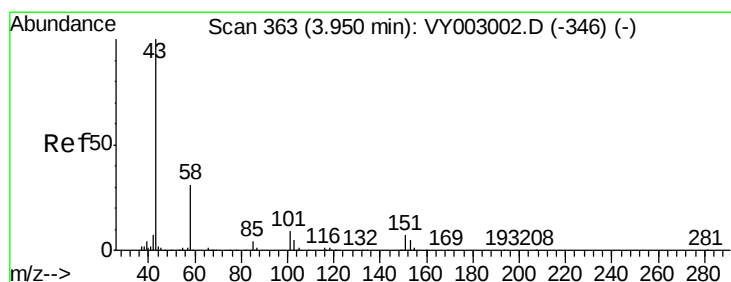
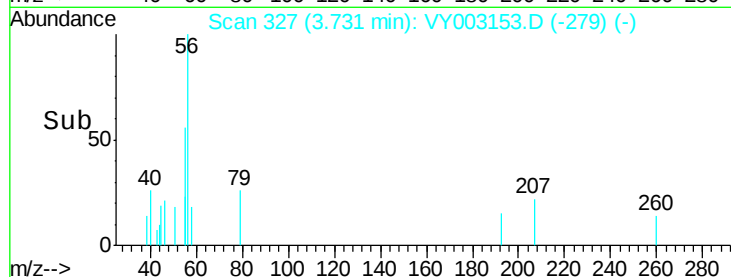
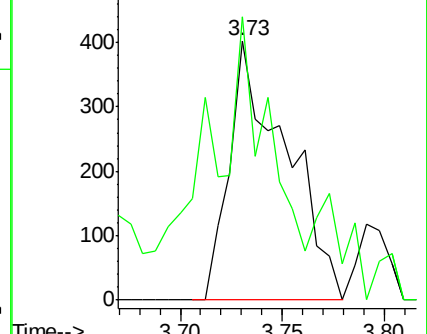
56 100

55 78.7 56.4 84.6



Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 55.00 (54.70 to 55.70): VY0



#16

Acetone

Concen: 41.861 ug/l

RT: 3.95 min Scan# 363

Delta R.T. -0.00 min

Lab File: VY003153.D

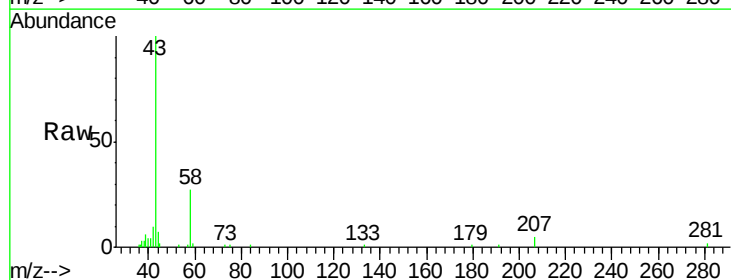
Acq: 09 Jul 2020 18:57

Tgt Ion: 43 Resp: 29036

Ion Ratio Lower Upper

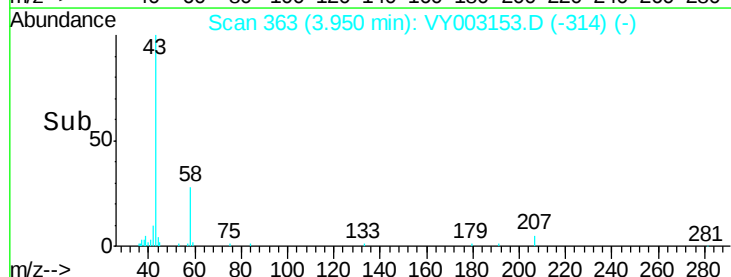
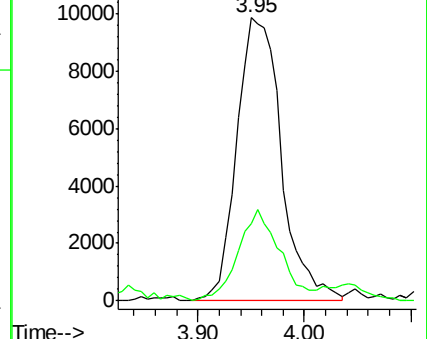
43 100

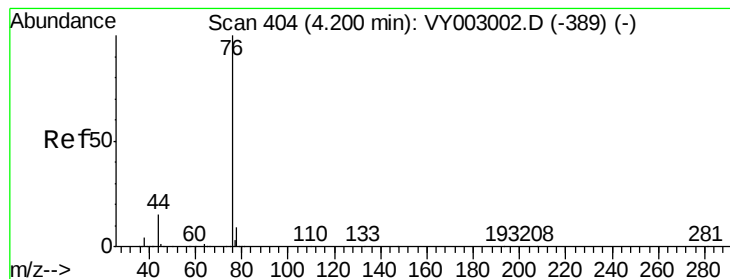
58 27.4 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0





#17

Carbon Disulfide

Concen: 5.267 ug/l

RT: 4.20 min Scan# 404

Delta R.T. -0.00 min

Lab File: VY003153.D

Acq: 09 Jul 2020 18:57

Instrument :

MSVOA\_Y

ClientSampleId :

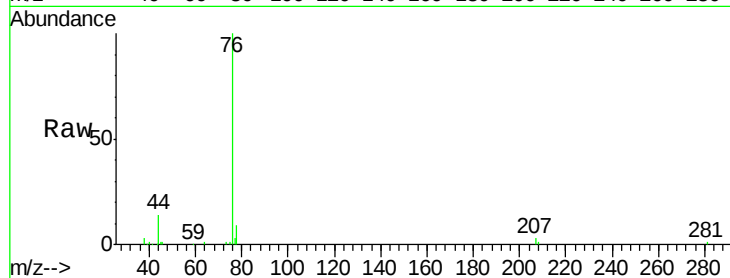
20200414-1

Tot Ion: 76 Resp: 43225

Ion Ratio Lower Upper

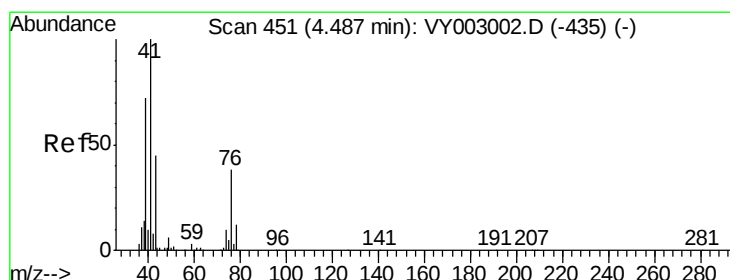
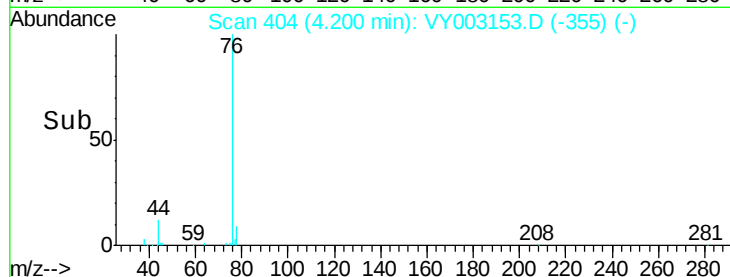
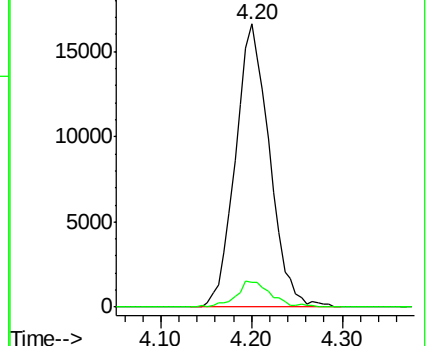
76 100

78 8.7 7.0 10.6



Abundance Ion 75.90 (75.60 to 76.60): VY0

Ion 77.90 (77.60 to 78.60): VY0



#18

Methyl Acetate

Concen: 1.247 ug/l

RT: 4.50 min Scan# 453

Delta R.T. 0.01 min

Lab File: VY003153.D

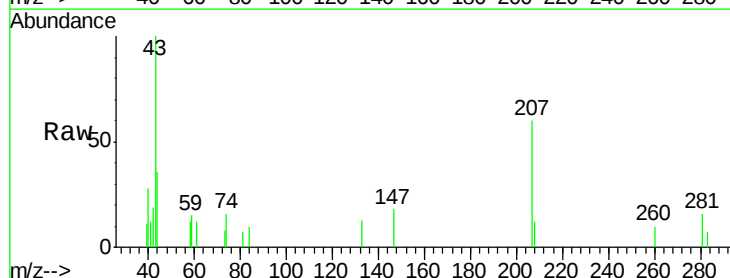
Acq: 09 Jul 2020 18:57

Tgt Ion: 43 Resp: 2330

Ion Ratio Lower Upper

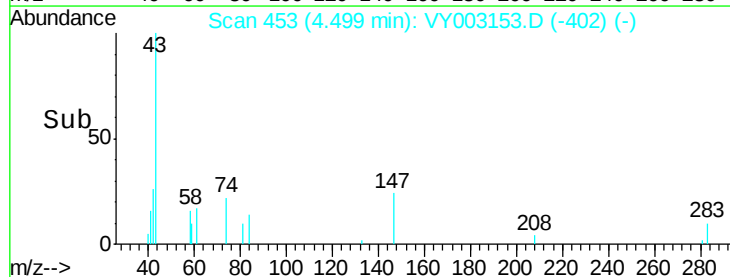
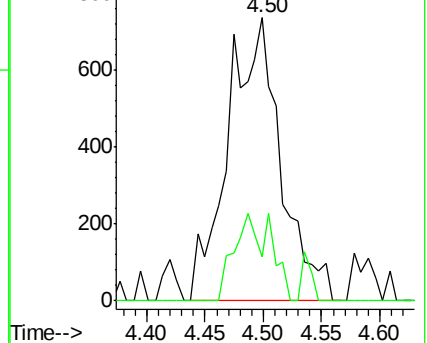
43 100

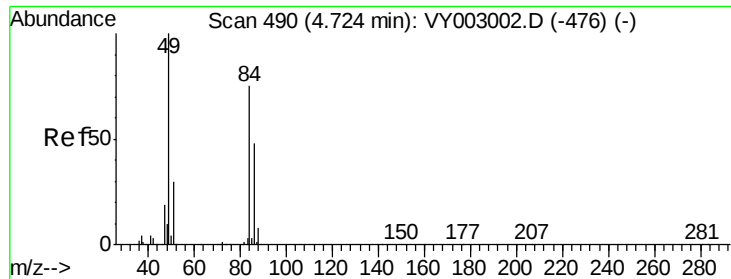
74 14.5 18.2 27.4#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 74.00 (73.70 to 74.70): VY0

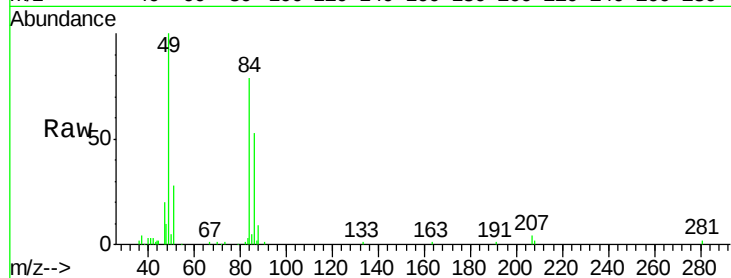




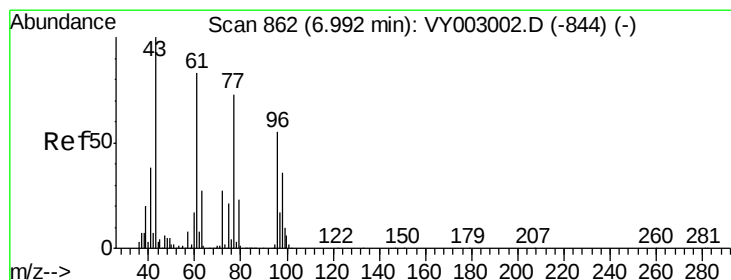
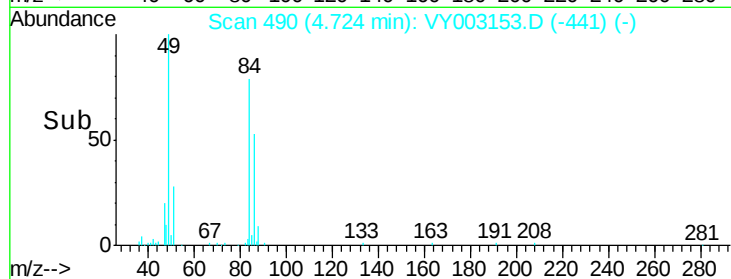
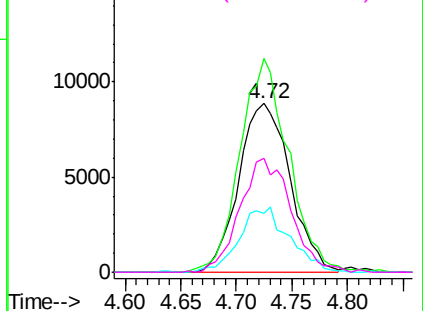
#20  
Methvlene Chloride  
Concen: 2.564 ug/l  
RT: 4.72 min Scan# 490  
Delta R.T. 0.00 min  
Lab File: VY003153.D  
Acq: 09 Jul 2020 18:57

Instrument :  
MSVOA\_Y  
ClientSampleId :  
20200414-1

|          |       |       |       |
|----------|-------|-------|-------|
| Tot Ion: | 84    | Resp: | 28407 |
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 125.8 | 106.8 | 160.2 |
| 51       | 35.3  | 32.0  | 48.0  |
| 86       | 66.6  | 51.4  | 77.2  |

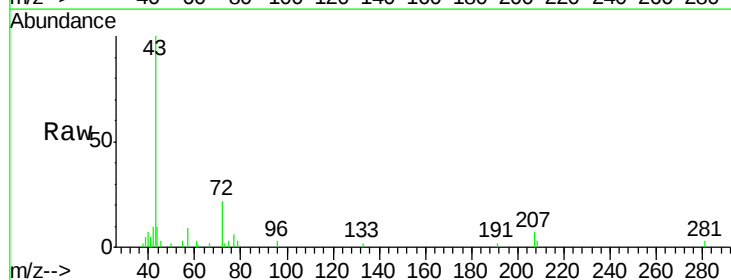


Abundance Ion 83.90 (83.60 to 84.60): VY0  
Ion 48.90 (48.60 to 49.60): VY0  
Ion 50.90 (50.60 to 51.60): VY0  
Ion 85.90 (85.60 to 86.60): VY0

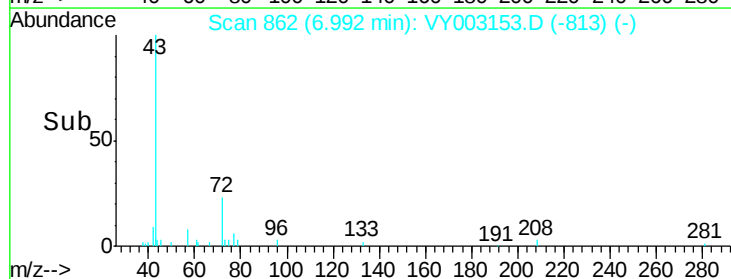
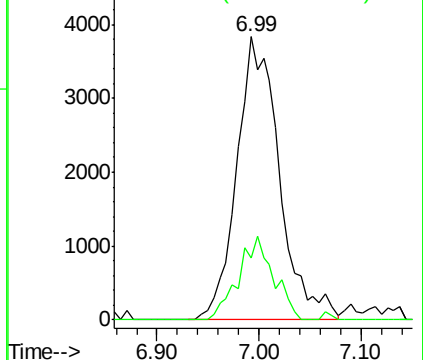


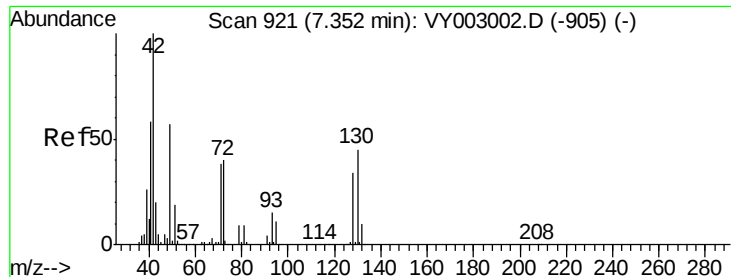
#25  
2-Butanone  
Concen: 10.080 ug/l  
RT: 6.99 min Scan# 862  
Delta R.T. -0.00 min  
Lab File: VY003153.D  
Acq: 09 Jul 2020 18:57

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 11107 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 72       | 22.1  | 21.4  | 32.0  |



Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 72.00 (71.70 to 72.70): VY0

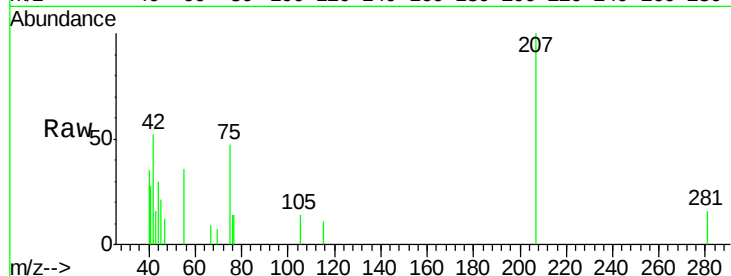




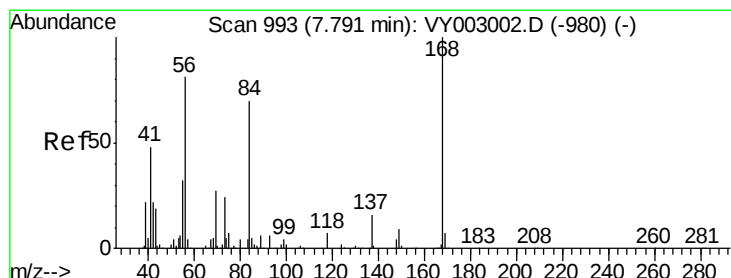
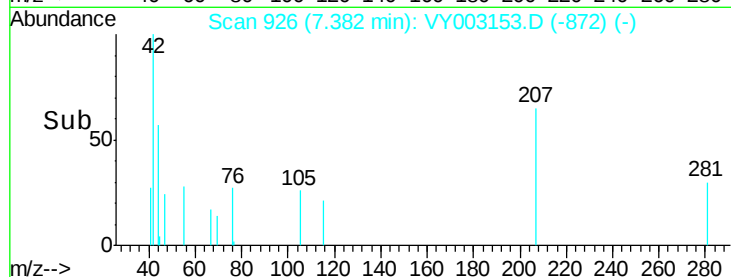
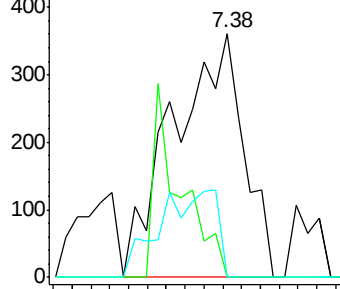
#29  
Tetrahydrofuran  
Concen: 1.272 ug/l  
RT: 7.38 min Scan# 926  
Delta R.T. 0.03 min  
Lab File: VY003153.D  
Acq: 09 Jul 2020 18:57

Instrument :  
MSVOA\_Y  
ClientSampleId :  
20200414-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 42      | 100   |       |       |
| 72      | 0.0   | 32.9  | 49.3# |
| 71      | 29.3  | 31.2  | 46.8# |

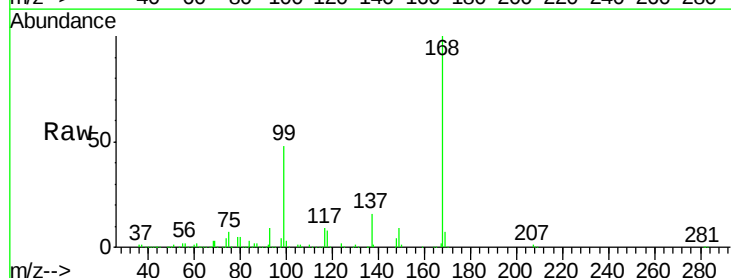


Abundance Ion 42.00 (41.70 to 42.70): VY0  
Ion 72.00 (71.70 to 72.70): VY0  
Ion 71.00 (70.70 to 71.70): VY0

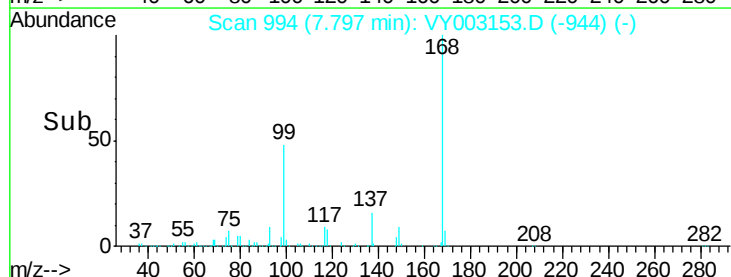
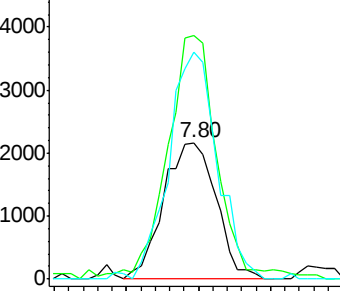


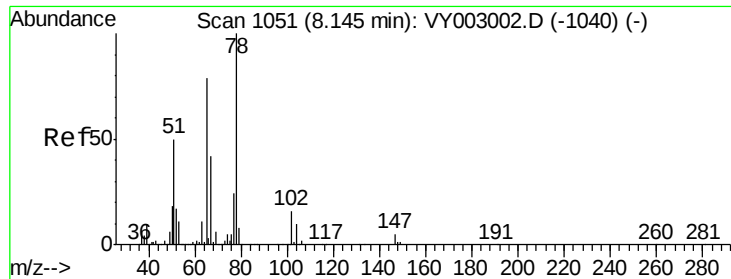
#31  
Cyclohexane  
Concen: 1.066 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. 0.01 min  
Lab File: VY003153.D  
Acq: 09 Jul 2020 18:57

| Tgt Ion | Ratio | Lower | Upper  |
|---------|-------|-------|--------|
| 56      | 100   |       |        |
| 69      | 171.2 | 27.0  | 40.4#  |
| 84      | 165.7 | 68.1  | 102.1# |



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: 52.564 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. 0.01 min

Lab File: VY003153.D

Acq: 09 Jul 2020 18:57

Instrument :

MSVOA\_Y

ClientSampleId :

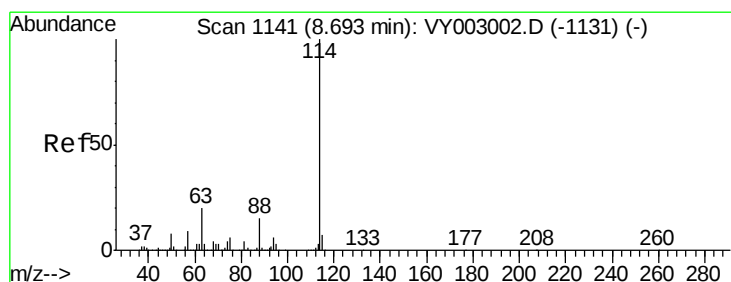
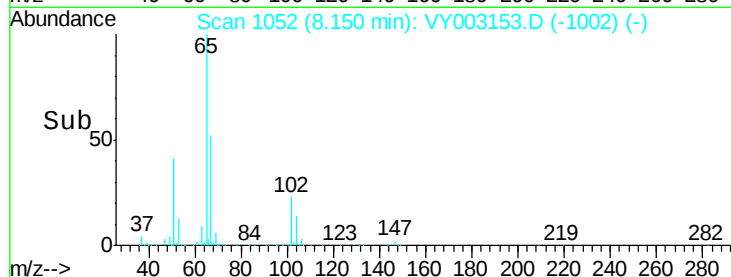
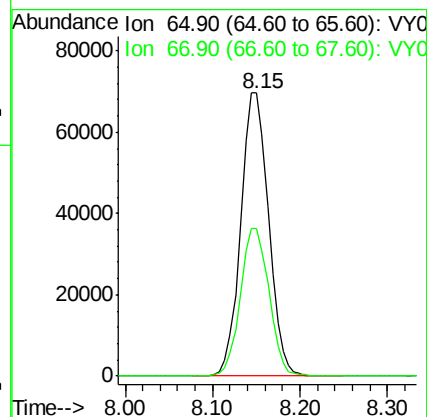
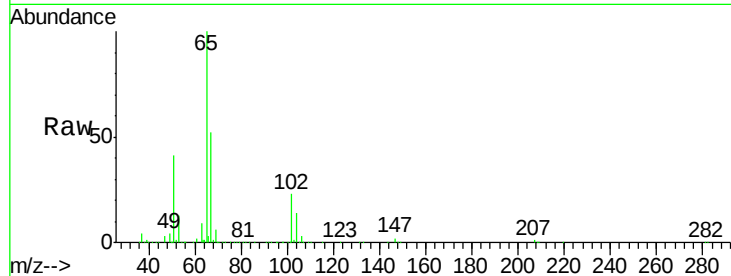
20200414-1

Tot Ion: 65 Resp: 154591

Ion Ratio Lower Upper

65 100

67 53.3 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.69 min Scan# 1141

Delta R.T. -0.00 min

Lab File: VY003153.D

Acq: 09 Jul 2020 18:57

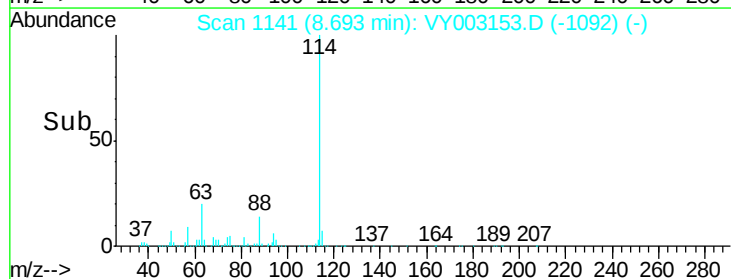
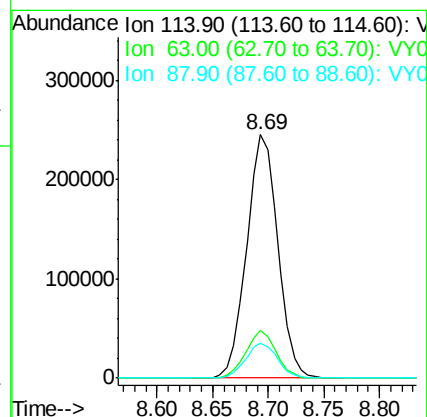
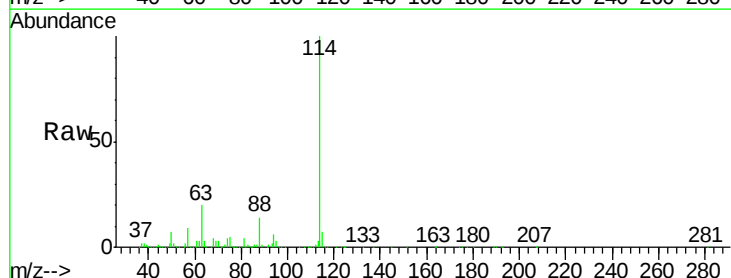
Tgt Ion: 114 Resp: 476445

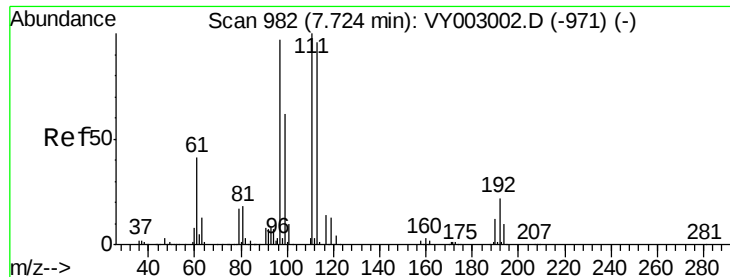
Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.6

88 14.5 0.0 30.0

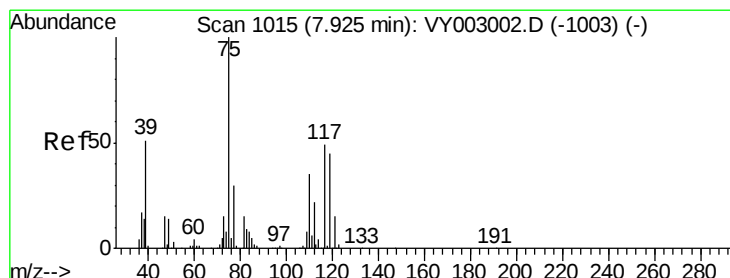
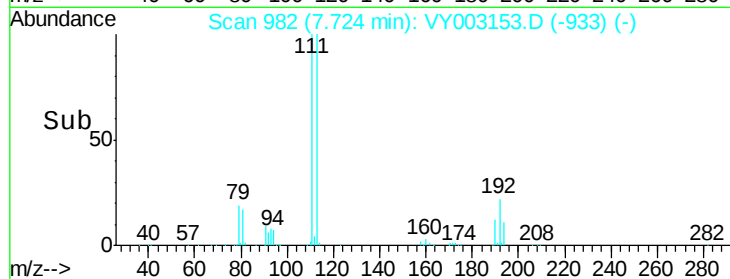
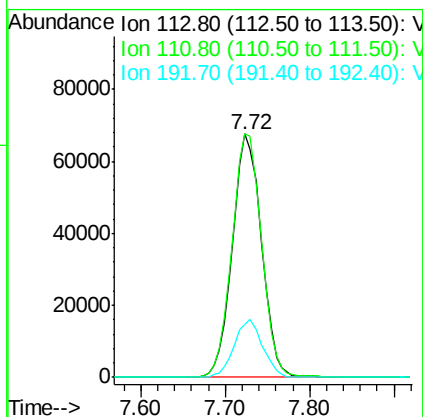
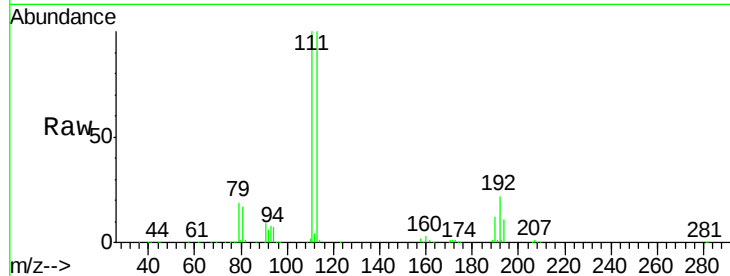




#35  
 Dibromofluoromethane  
 Concen: 52.943 ug/l  
 RT: 7.72 min Scan# 982  
 Delta R.T. -0.00 min  
 Lab File: VY003153.D  
 Acq: 09 Jul 2020 18:57

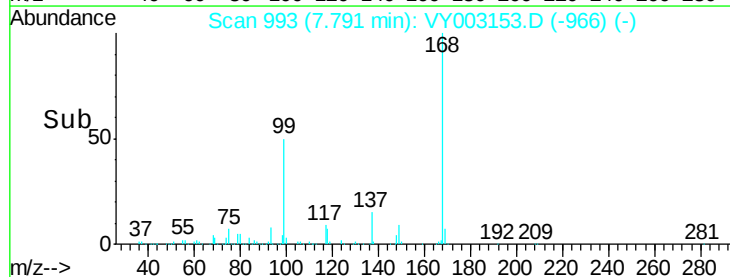
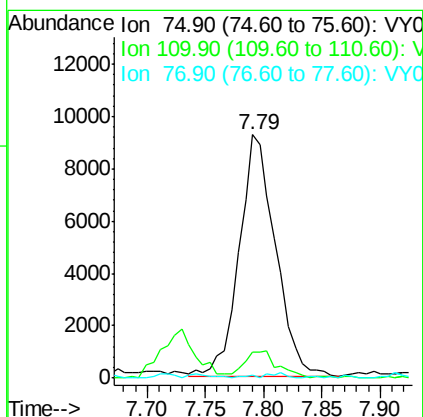
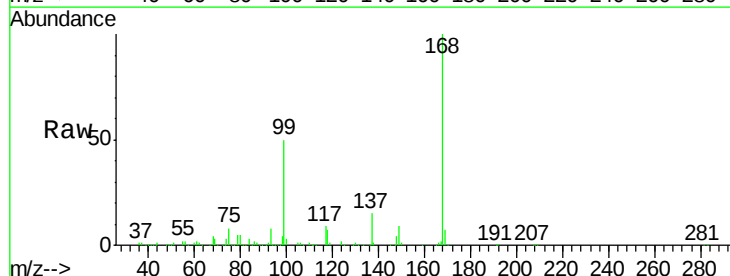
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 20200414-1

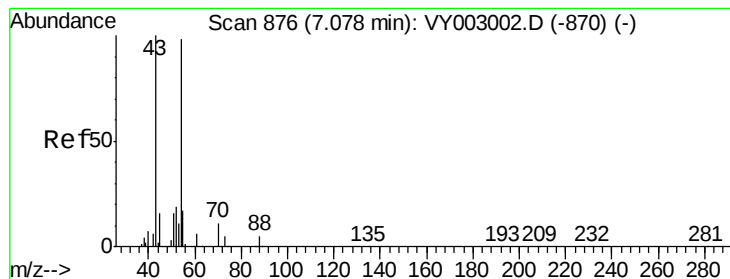
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 102.2 | 82.6  | 123.8 |
| 192     | 23.3  | 18.1  | 27.1  |



#36  
 1,1-Dichloropropene  
 Concen: 4.398 ug/l  
 RT: 7.79 min Scan# 993  
 Delta R.T. -0.13 min  
 Lab File: VY003153.D  
 Acq: 09 Jul 2020 18:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 10.4  | 17.1  | 51.2# |
| 77      | 0.5   | 24.9  | 37.3# |





#37

Ethyl Acetate

Concen: 4.025 ug/l

RT: 6.99 min Scan# 862

Delta R.T. -0.09 min

Lab File: VY003153.D

Acq: 09 Jul 2020 18:57

Instrument :

MSVOA\_Y

ClientSampleId :

20200414-1

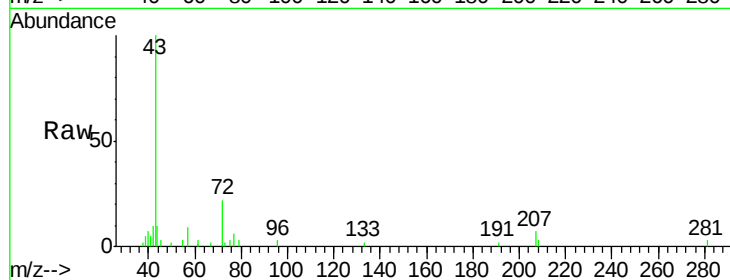
Tot Ion: 43 Resp: 11107

Ion Ratio Lower Upper

43 100

61 1.0 10.4 15.6#

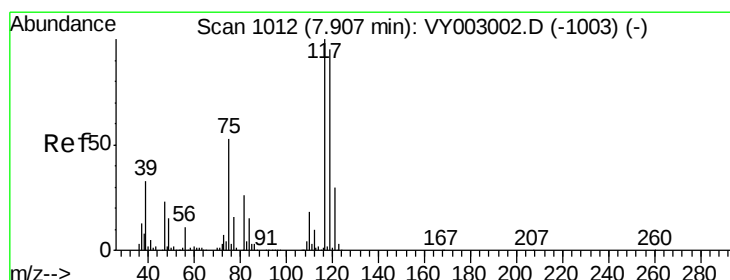
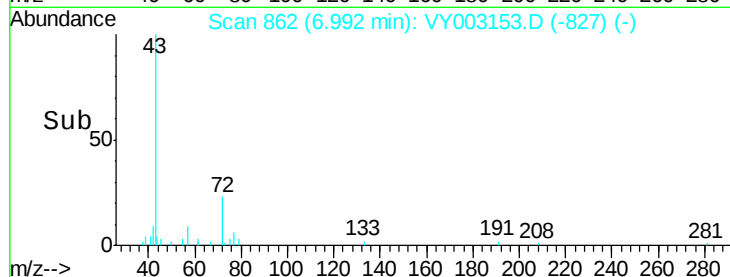
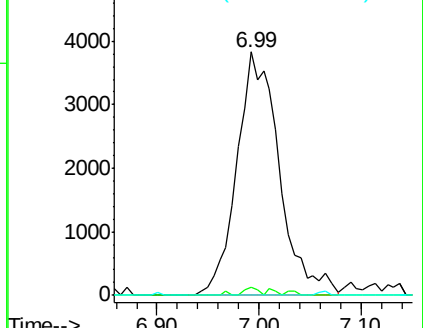
70 0.0 7.7 11.5#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 60.90 (60.60 to 61.60): VY0

Ion 70.00 (69.70 to 70.70): VY0



#38

Carbon Tetrachloride

Concen: 5.519 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.12 min

Lab File: VY003153.D

Acq: 09 Jul 2020 18:57

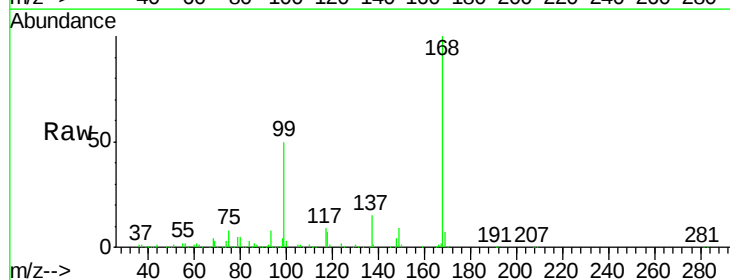
Tgt Ion: 117 Resp: 26351

Ion Ratio Lower Upper

117 100

119 6.9 75.7 113.5#

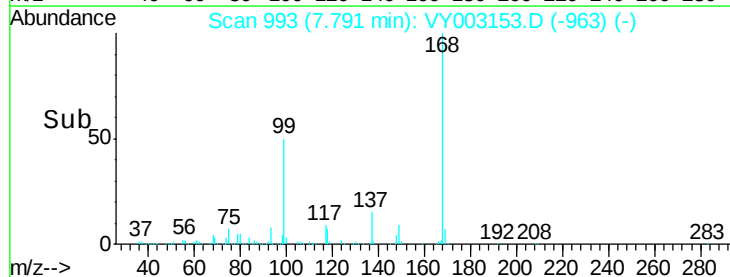
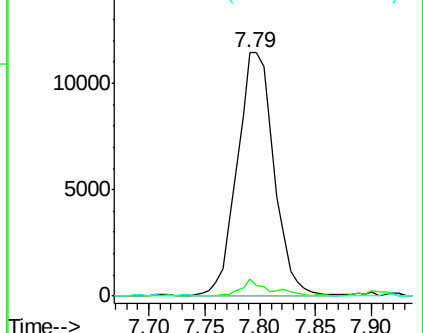
121 0.0 23.9 35.9#

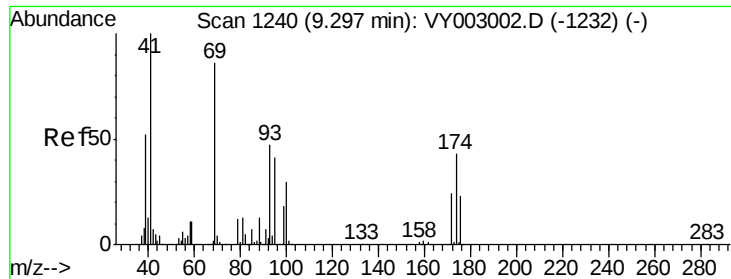


Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





#49

1,4-Dioxane

Concen: 20.177 ug/l

RT: 9.30 min Scan# 1241

Delta R.T. 0.01 min

Lab File: VY003153.D

Acq: 09 Jul 2020 18:57

Instrument :

MSVOA\_Y

ClientSampleId :

20200414-1

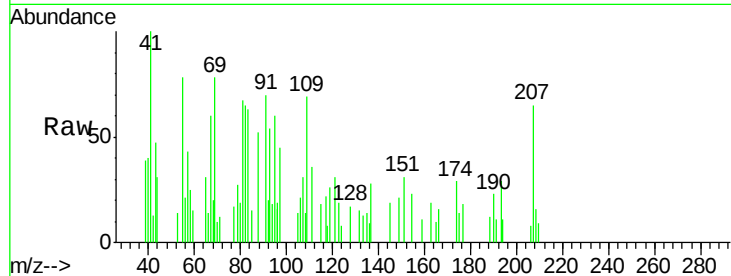
Tot Ion: 88 Resp: 465

Ion Ratio Lower Upper

88 100

43 0.0 28.6 42.8#

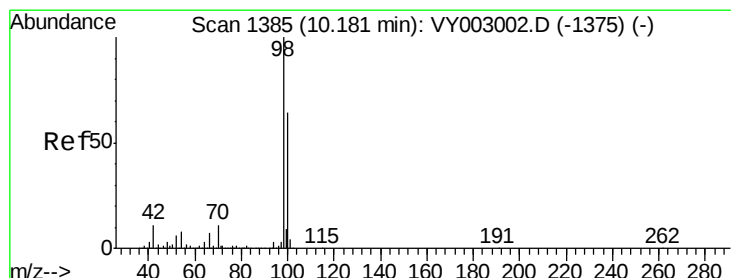
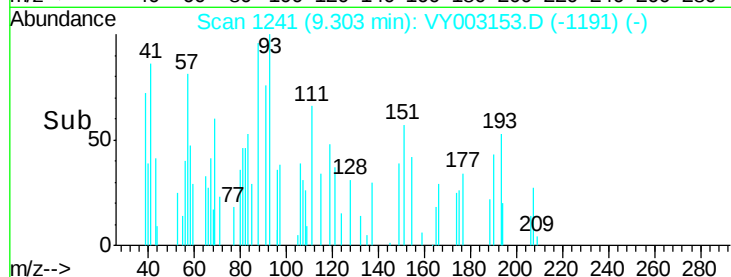
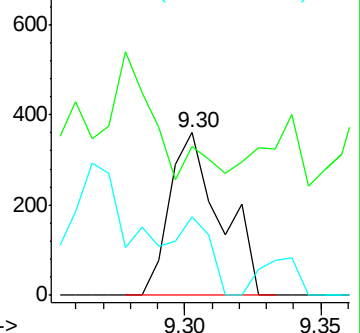
58 0.0 56.7 85.1#



Abundance Ion 88.00 (87.70 to 88.70): VY0

Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#50

Toluene-d8

Concen: 51.911 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY003153.D

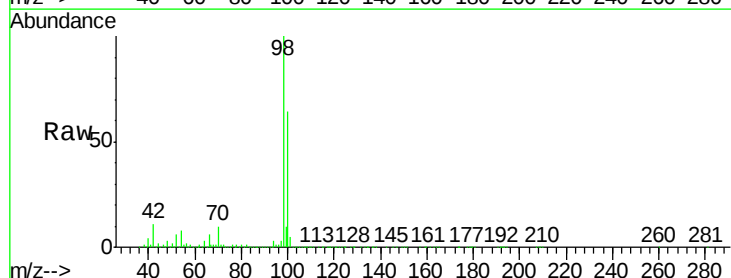
Acq: 09 Jul 2020 18:57

Tgt Ion: 98 Resp: 574786

Ion Ratio Lower Upper

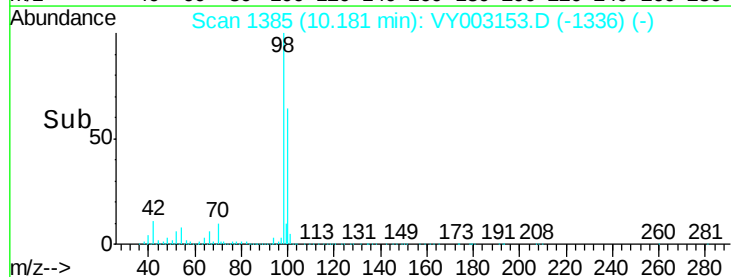
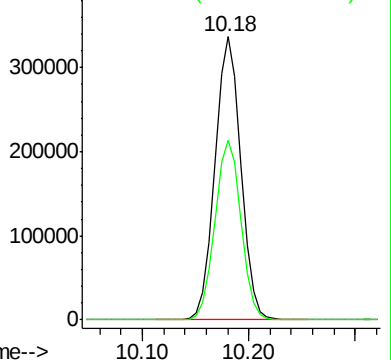
98 100

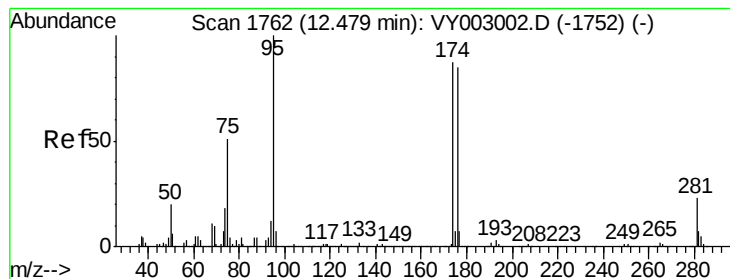
100 63.8 51.1 76.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0





#62

4-Bromofluorobenzene

Concen: 53.902 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY003153.D

Acq: 09 Jul 2020 18:57

Instrument :

MSVOA\_Y

ClientSampleId :

20200414-1

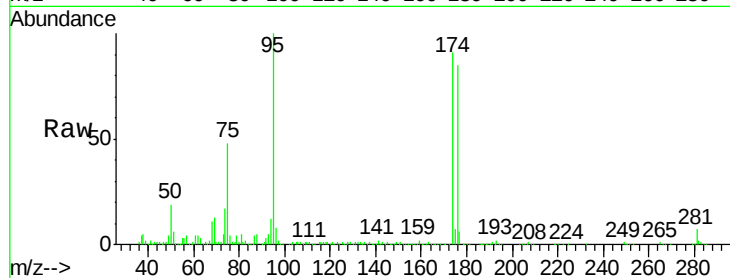
Tot Ion: 95 Resp: 210086

Ion Ratio Lower Upper

95 100

174 98.4 0.0 184.8

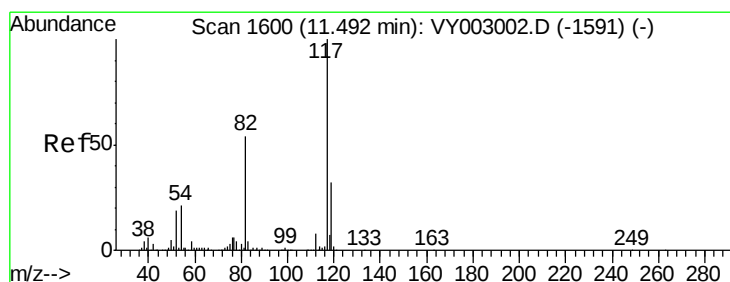
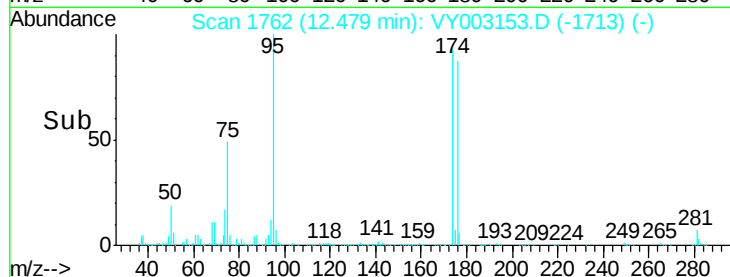
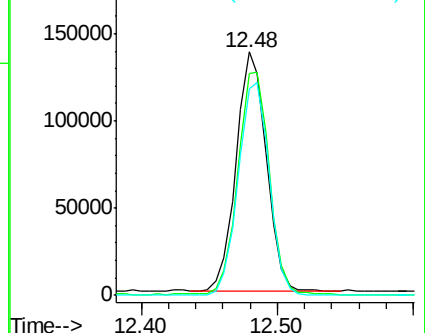
176 91.9 0.0 183.0



Abundance Ion 94.90 (94.60 to 95.60): VY003153.D (-1752) (-)

Ion 173.80 (173.50 to 174.50): VY003153.D (-1752) (-)

Ion 175.80 (175.50 to 176.50): VY003153.D (-1752) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VY003153.D

Acq: 09 Jul 2020 18:57

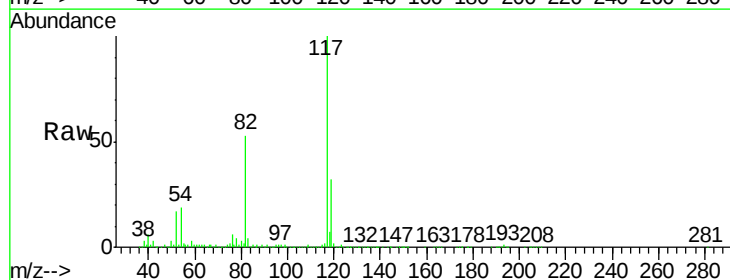
Tgt Ion: 117 Resp: 465913

Ion Ratio Lower Upper

117 100

82 52.5 43.0 64.6

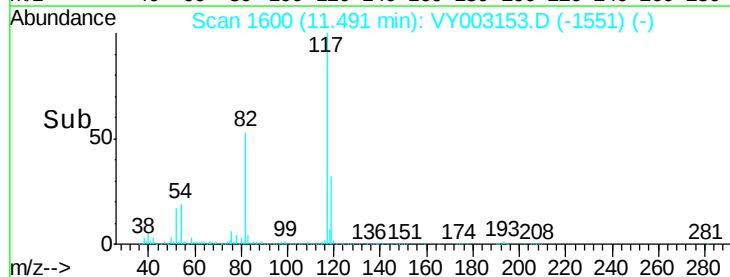
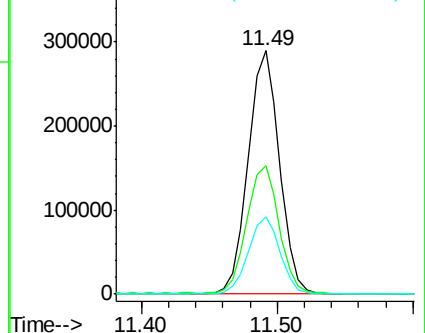
119 31.5 25.8 38.8

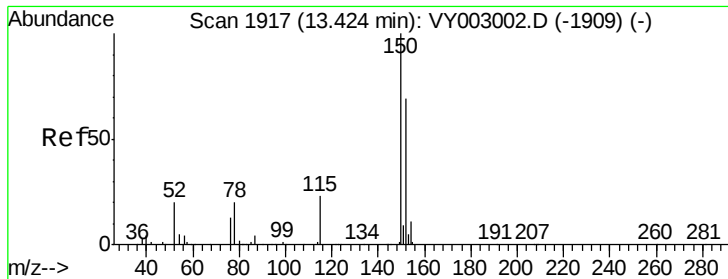


Abundance Ion 116.90 (116.60 to 117.60): VY003153.D (-1591) (-)

Ion 82.00 (81.70 to 82.70): VY003153.D (-1591) (-)

Ion 118.90 (118.60 to 119.60): VY003153.D (-1591) (-)



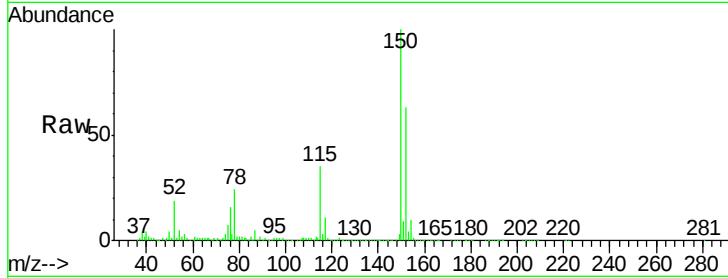


#72

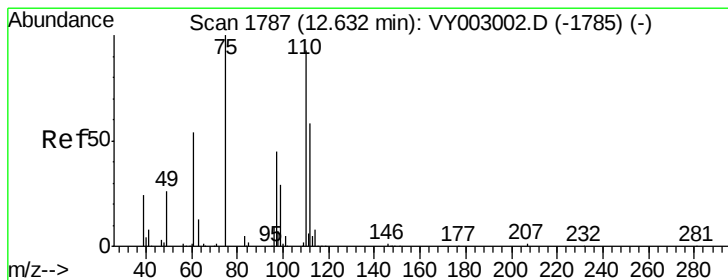
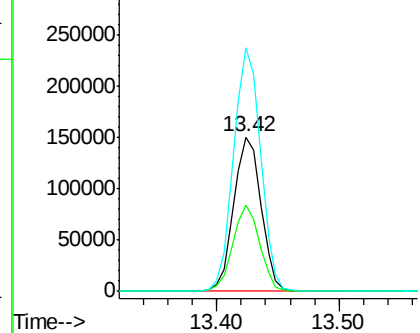
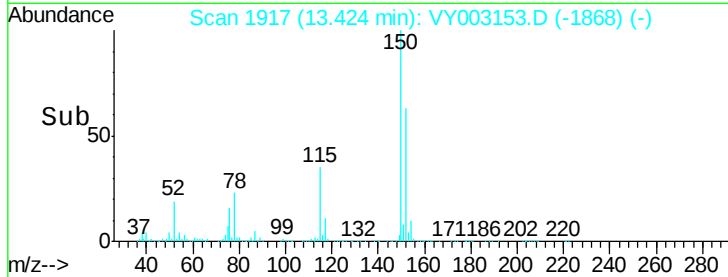
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY003153.D  
Acq: 09 Jul 2020 18:57

Instrument :  
MSVOA\_Y  
ClientSampled :  
20200414-1

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 54.2  | 27.3  | 81.9  |
| 150     | 156.8 | 0.0   | 343.4 |



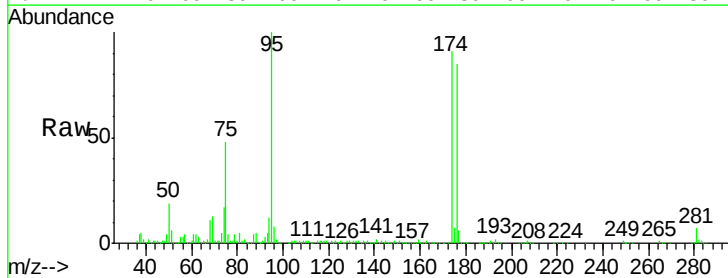
Abundance Ion 151.90 (151.60 to 152.60): V  
Ion 114.90 (114.60 to 115.60): V  
Ion 149.90 (149.60 to 150.60): V



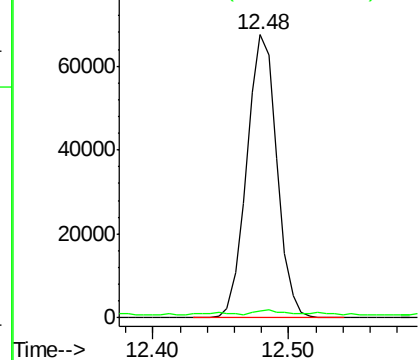
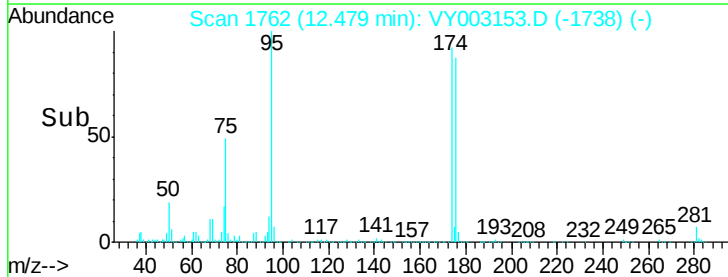
#76

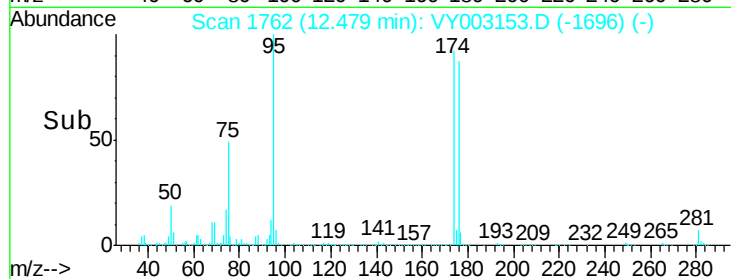
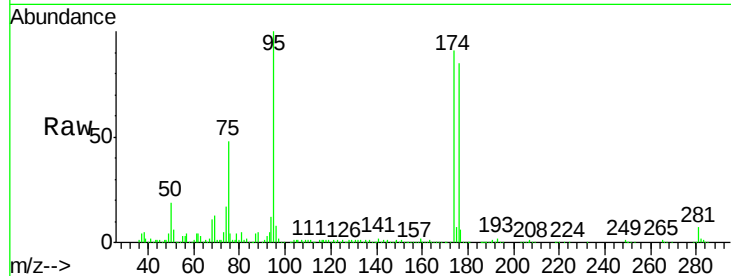
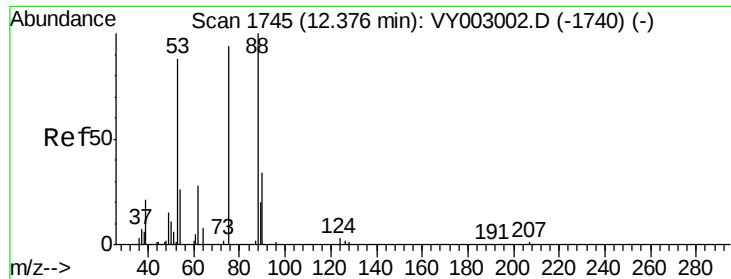
1,2,3-Trichloropropane  
Concen: 45.939 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.15 min  
Lab File: VY003153.D  
Acq: 09 Jul 2020 18:57

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 77      | 1.9   | 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: 89.379 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY003153.D

Acq: 09 Jul 2020 18:57

Instrument :

MSVOA\_Y

ClientSampleId :

20200414-1

Tot Ion: 75 Resp: 104607

Ion Ratio Lower Upper

75 100

53 0.0 73.9 110.9#

89 0.4 37.5 56.3#

