

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY041720\  
 Data File : VY002400.D  
 Acq On : 17 Apr 2020 15:34  
 Operator : SY/MD  
 Sample : L2306-02RE  
 Misc : 5.01G/5ML/MSVOA Y/SOIL  
 ALS Vial : 16 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :

Quant Time: Apr 18 04:38:22 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y040820S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Apr 08 15:15:02 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 101309   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 202727   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 191985   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 86233    | 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   | 52480    | 46.58 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 93.16%  |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 32914    | 27.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 54.58%  |          |
| 50) Toluene-d8              | 10.19 | 98   | 243373   | 48.20 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.40%  |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 83638    | 50.21 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 100.42% |          |

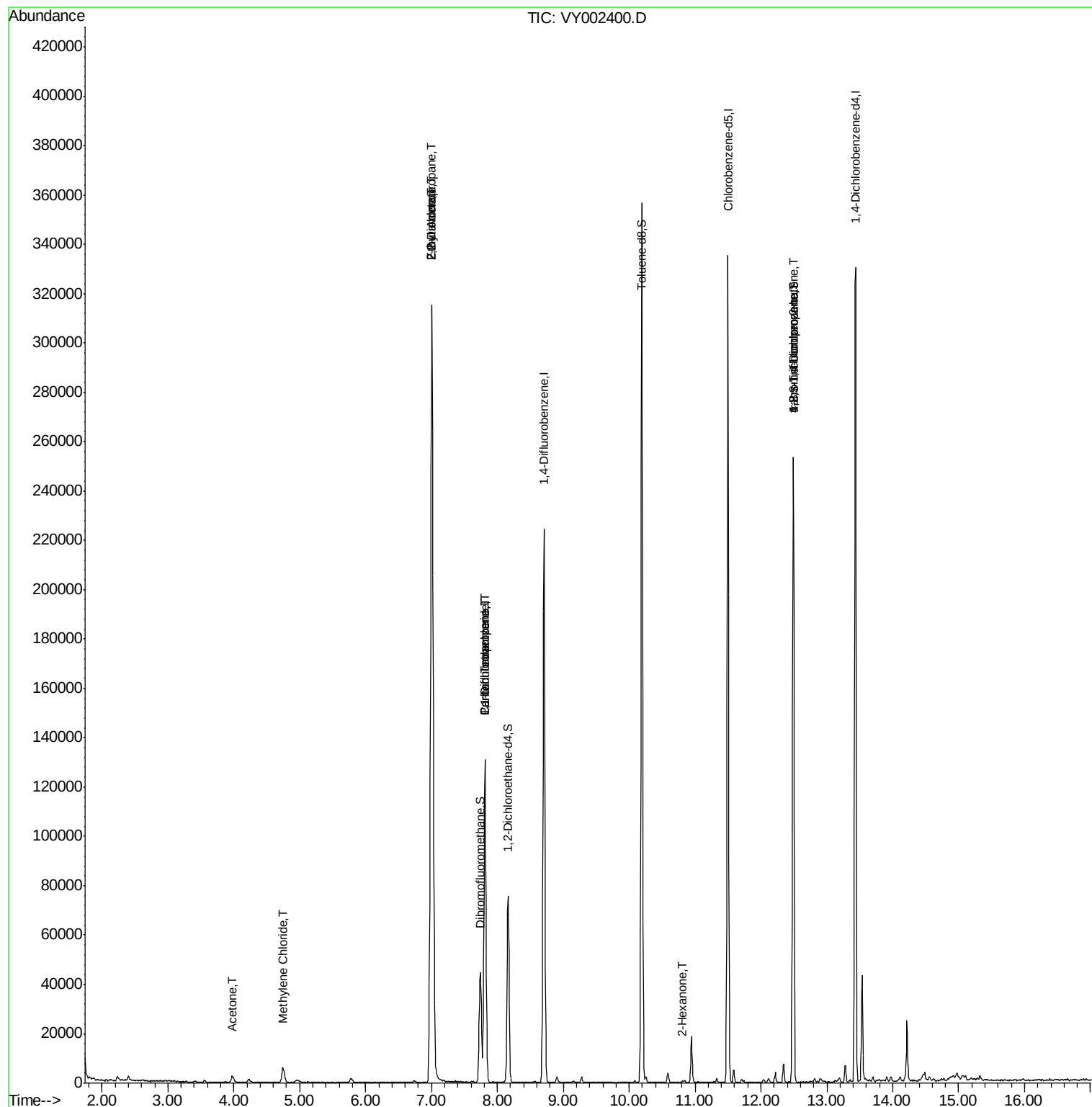
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 11) Tert butyl alcohol         | 4.96  | 59   | 1466     | Below Cal | #      | 77     |
| 16) Acetone                    | 3.97  | 43   | 4381     | 14.764    | ug/l # | 87     |
| 20) Methylene Chloride         | 4.75  | 84   | 4906     | 3.364     | ug/l # | 82     |
| 25) 2-Butanone                 | 7.00  | 43   | 12991    | 27.664    | ug/l # | 74     |
| 26) 2,2-Dichloropropane        | 7.00  | 77   | 23182    | 12.256    | ug/l # | 51     |
| 36) 1,1-Dichloropropene        | 7.81  | 75   | 8332     | 4.173     | ug/l # | 50     |
| 37) Ethyl Acetate              | 7.00  | 43   | 12991    | 11.388    | ug/l # | 1      |
| 38) Carbon Tetrachloride       | 7.81  | 117  | 10120    | 5.925     | ug/l # | 17     |
| 59) 2-Hexanone                 | 10.81 | 43   | 913      | 1.213     | ug/l # | 21     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 38971    | 38.918    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 38971    | 75.695    | ug/l # | 19     |

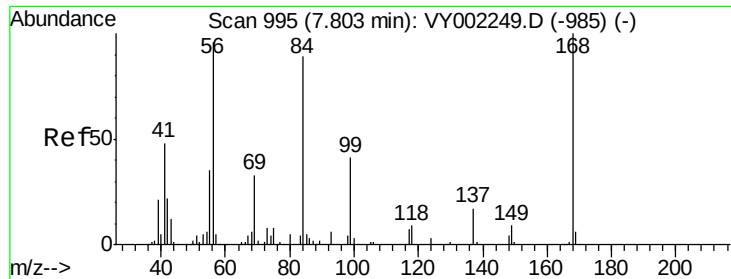
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY041720\  
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MSVOA\_Y  
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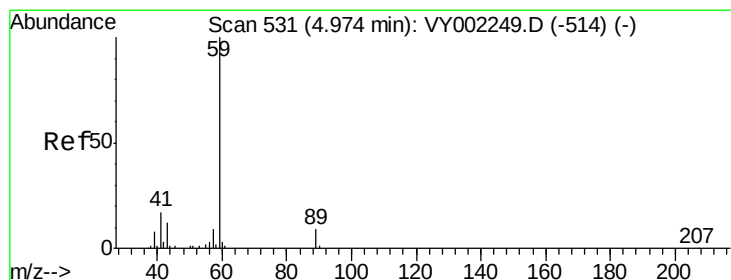
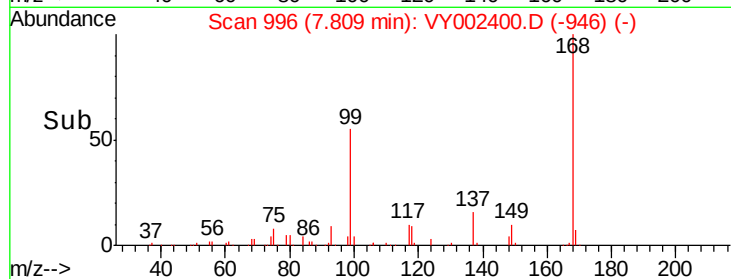
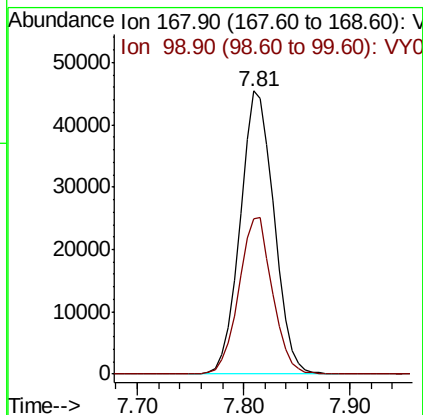
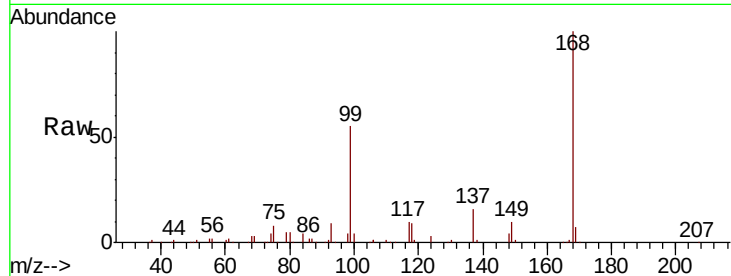


#1

Pentafluorobenzene  
 Concen: 50.000 ug/l  
 RT: 7.81 min Scan# 996  
 Delta R.T. 0.01 min  
 Lab File: VY002400.D  
 Acq: 17 Apr 2020 15:34

Instrument :  
 MSVOA\_Y  
 ClientSampled :

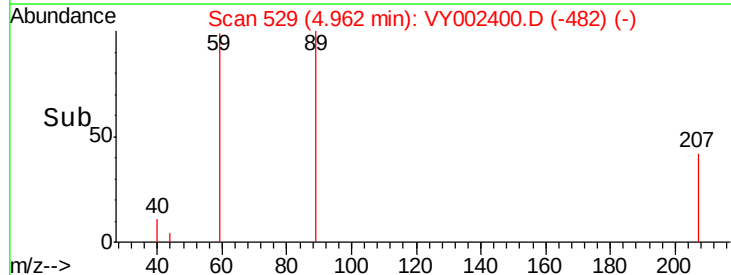
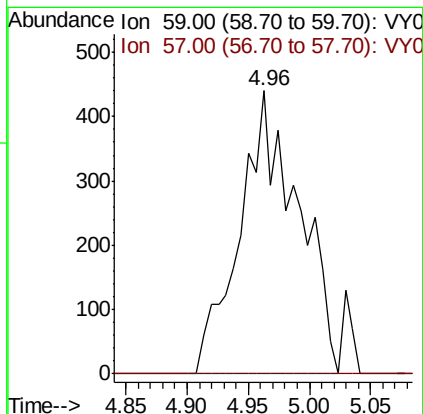
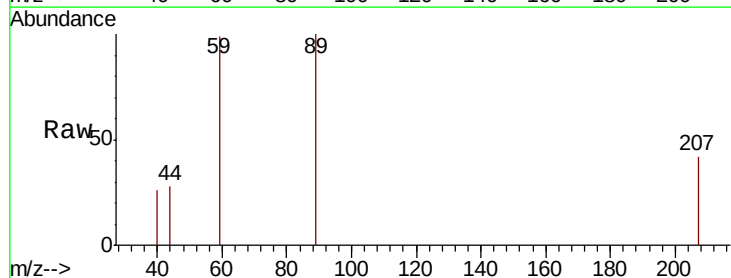
Tot Ion:168 Resp: 101309  
 Ion Ratio Lower Upper  
 168 100  
 99 54.7 48.0 72.0

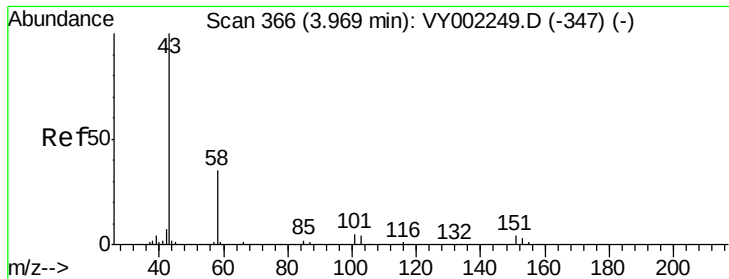


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 4.96 min Scan# 529  
 Delta R.T. -0.01 min  
 Lab File: VY002400.D  
 Acq: 17 Apr 2020 15:34

Tgt Ion: 59 Resp: 1466  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 6.6 9.8#





#16

Acetone

Concen: 14.764 ug/l

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VY002400.D

Acq: 17 Apr 2020 15:34

Instrument :

MSVOA\_Y

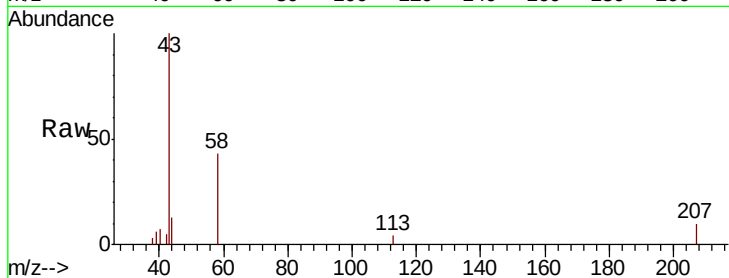
ClientSampleId :

Tot Ion: 43 Resp: 4381

Ion Ratio Lower Upper

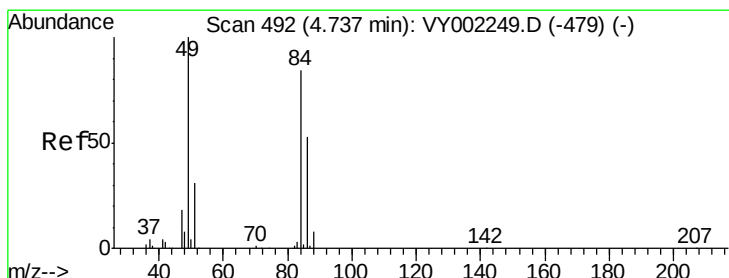
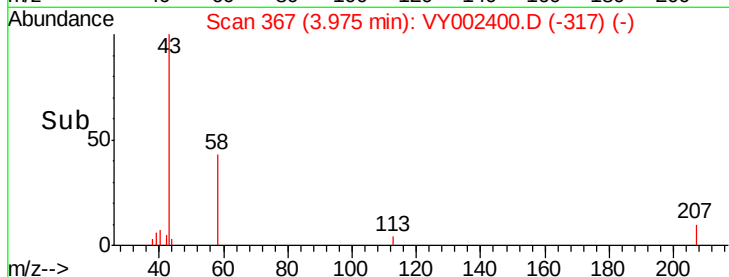
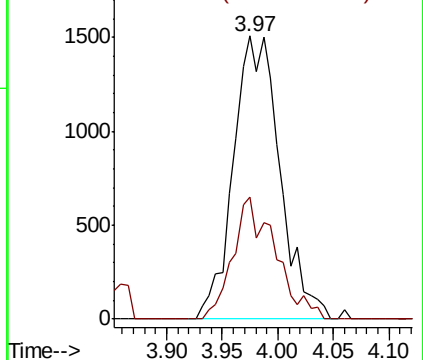
43 100

58 42.9 28.5 42.7#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0



#20

Methylene Chloride

Concen: 3.364 ug/l

RT: 4.75 min Scan# 494

Delta R.T. 0.01 min

Lab File: VY002400.D

Acq: 17 Apr 2020 15:34

Tgt Ion: 84 Resp: 4906

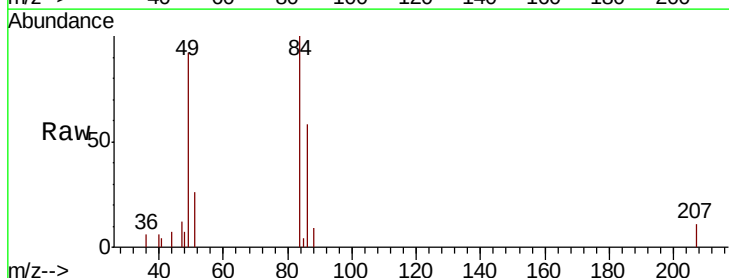
Ion Ratio Lower Upper

84 100

49 92.1 95.5 143.3#

51 26.5 29.5 44.3#

86 57.7 50.7 76.1

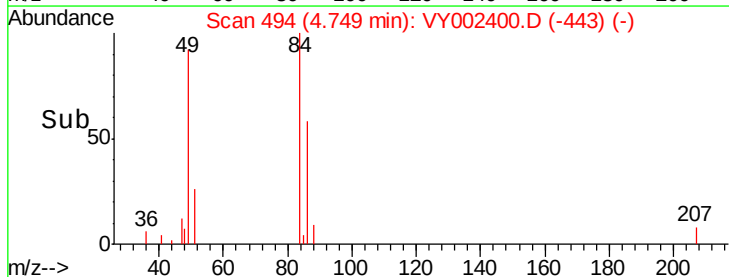
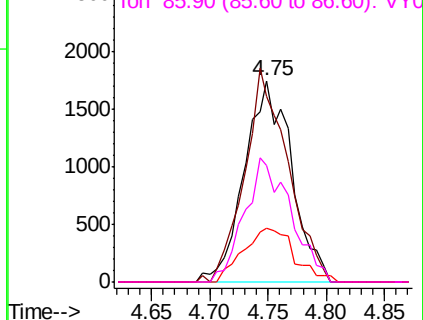


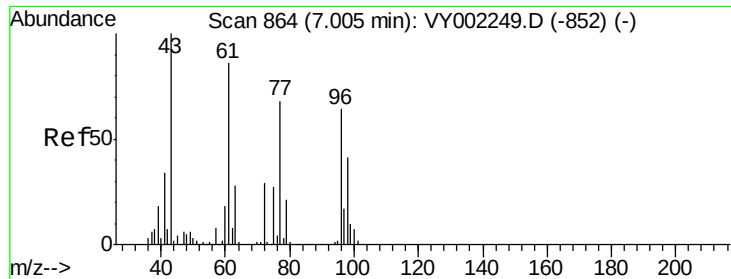
Abundance Ion 83.90 (83.60 to 84.60): VY0

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: 27.664 ug/l

RT: 7.00 min Scan# 864

Delta R.T. 0.00 min

Lab File: VY002400.D

Acq: 17 Apr 2020 15:34

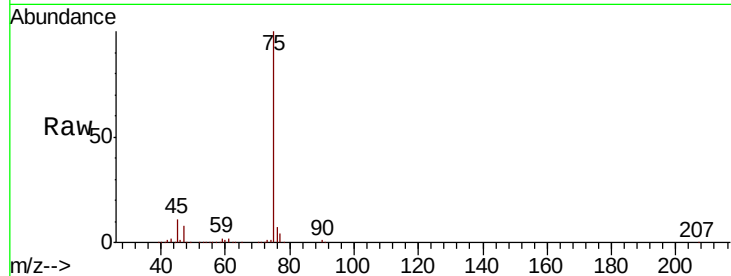
Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 43 Resp: 12991

Ion Ratio Lower Upper

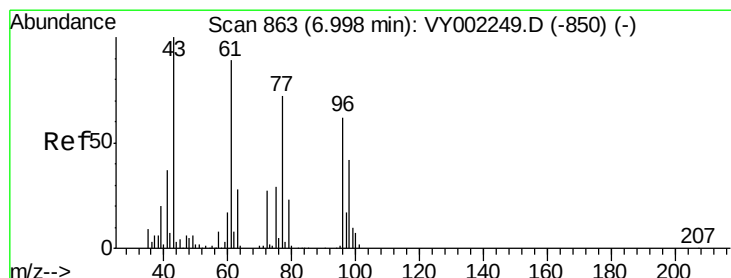
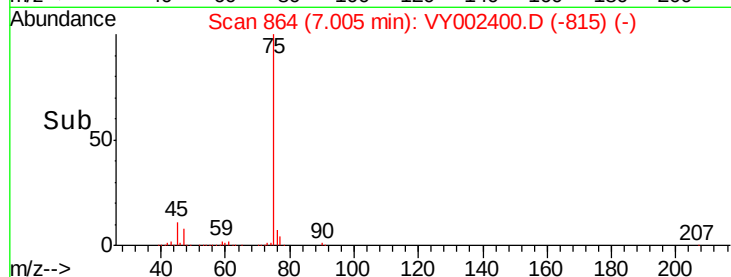
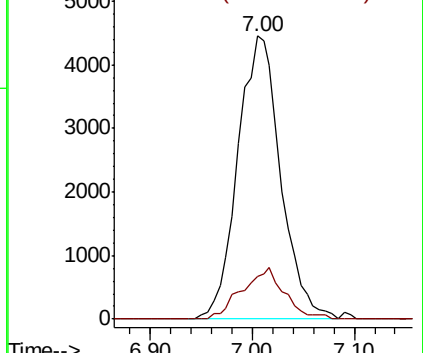
43 100

72 15.1 23.2 34.8#



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0



#26

2,2-Dichloropropane

Concen: 12.256 ug/l

RT: 7.00 min Scan# 863

Delta R.T. 0.00 min

Lab File: VY002400.D

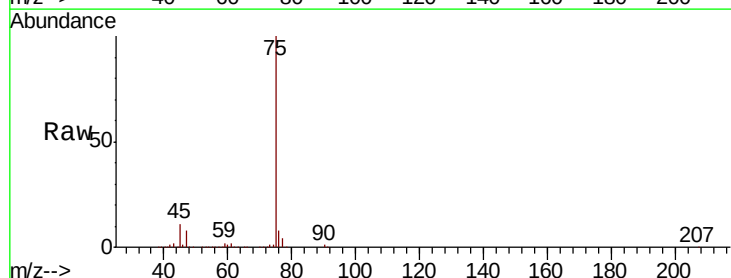
Acq: 17 Apr 2020 15:34

Tgt Ion: 77 Resp: 23182

Ion Ratio Lower Upper

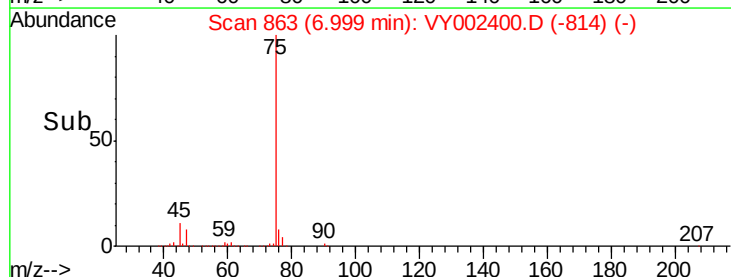
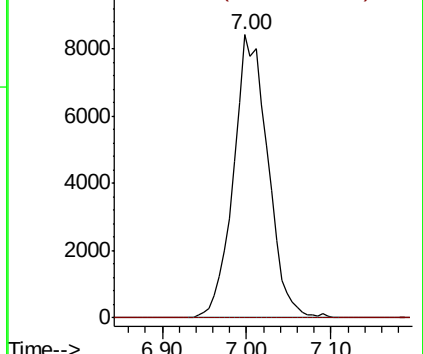
77 100

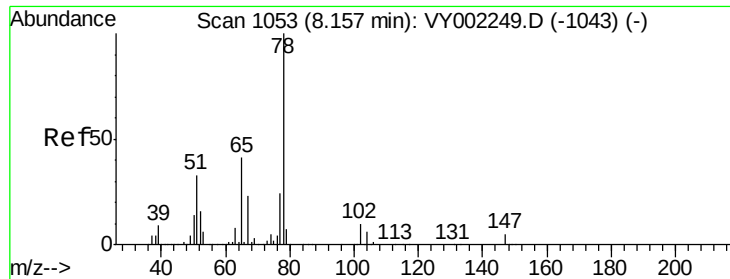
97 0.0 12.2 36.6#



Abundance Ion 76.90 (76.60 to 77.60): VY0

Ion 96.90 (96.60 to 97.60): VY0

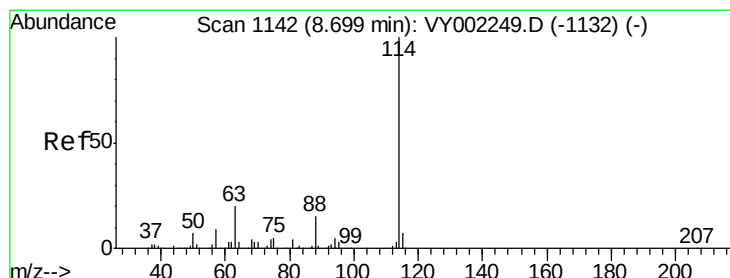
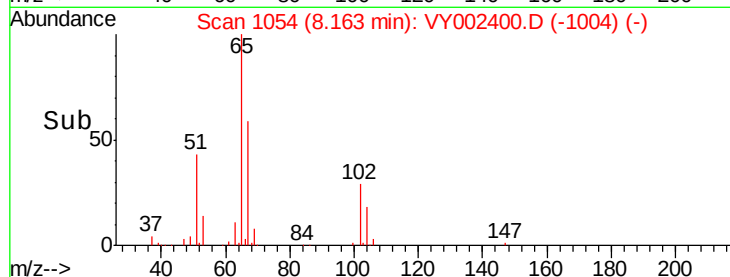
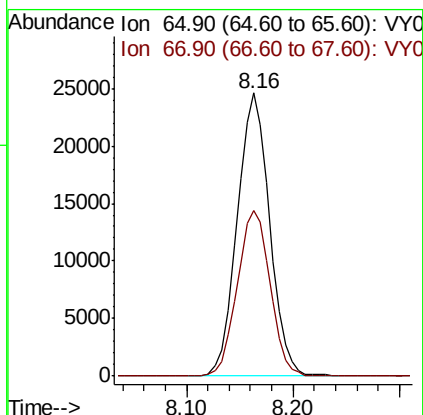
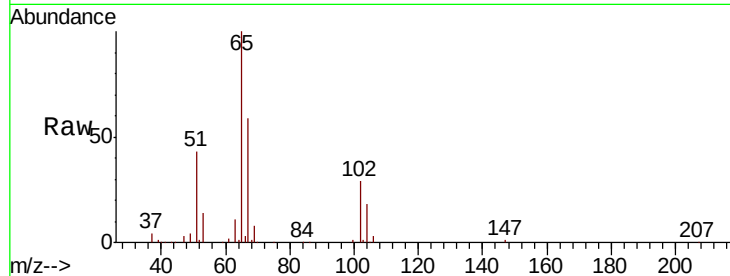




#33  
 1,2-Dichloroethane-d4  
 Concen: 46.581 ug/l  
 RT: 8.16 min Scan# 1054  
 Delta R.T. 0.01 min  
 Lab File: VY002400.D  
 Acq: 17 Apr 2020 15:34

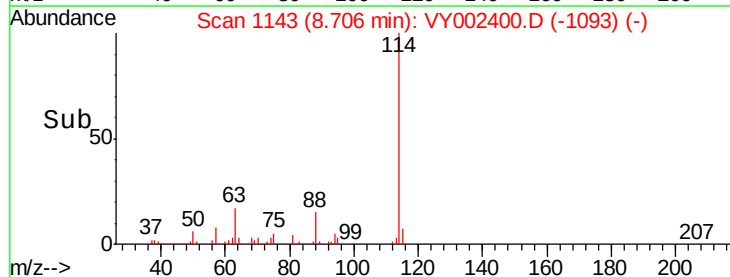
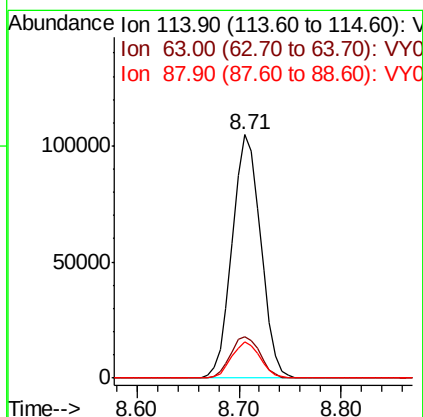
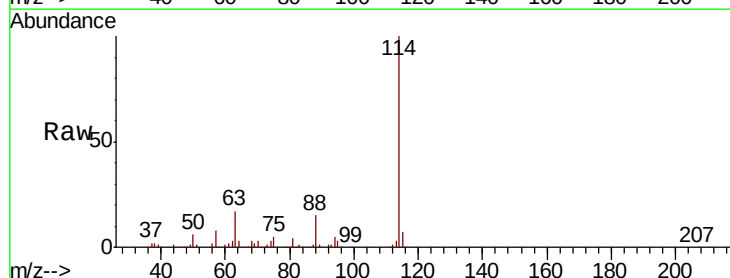
Instrument :  
 MSVOA\_Y  
 ClientSampled :

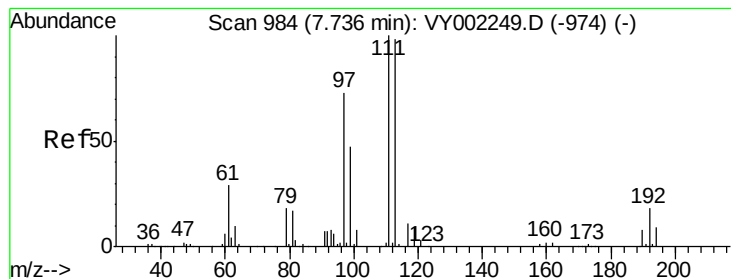
Tot Ion: 65 Resp: 52480  
 Ion Ratio Lower Upper  
 65 100  
 67 59.4 0.0 114.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1143  
 Delta R.T. 0.01 min  
 Lab File: VY002400.D  
 Acq: 17 Apr 2020 15:34

Tgt Ion: 114 Resp: 202727  
 Ion Ratio Lower Upper  
 114 100  
 63 17.2 0.0 39.0  
 88 15.0 0.0 31.0





#35

Dibromofluoromethane

Concen: 27.285 ug/l

RT: 7.74 min Scan# 985

Delta R.T. 0.01 min

Lab File: VY002400.D

Acq: 17 Apr 2020 15:34

Instrument :

MSVOA\_Y

ClientSampleId :

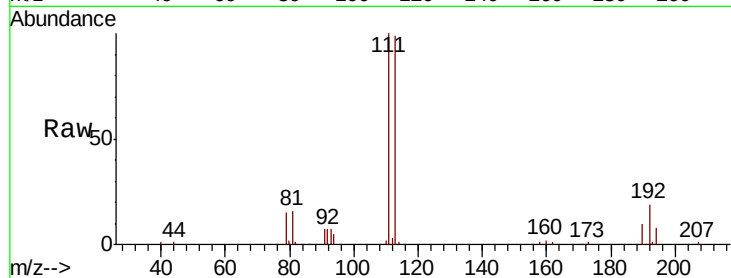
Tot Ion:113 Resp: 32914

Ion Ratio Lower Upper

113 100

111 101.6 83.5 125.3

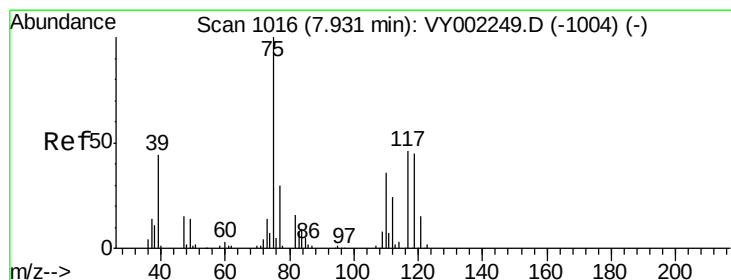
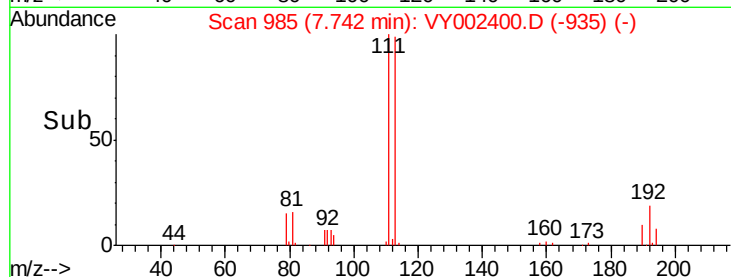
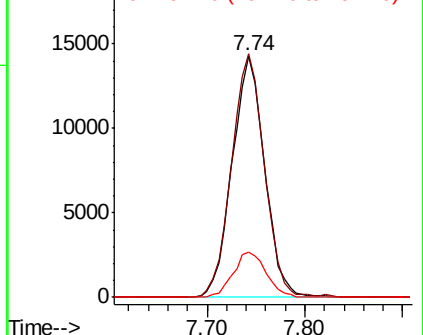
192 19.0 14.7 22.1



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: 4.173 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.12 min

Lab File: VY002400.D

Acq: 17 Apr 2020 15:34

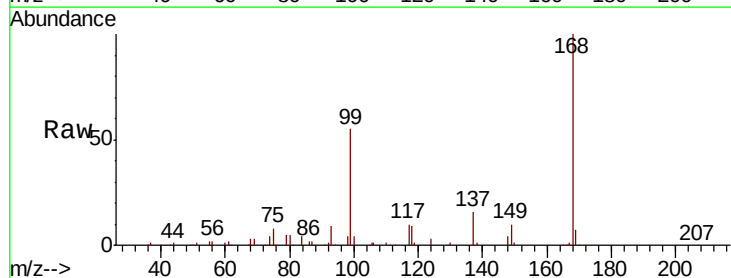
Tgt Ion: 75 Resp: 8332

Ion Ratio Lower Upper

75 100

110 8.8 17.8 53.3#

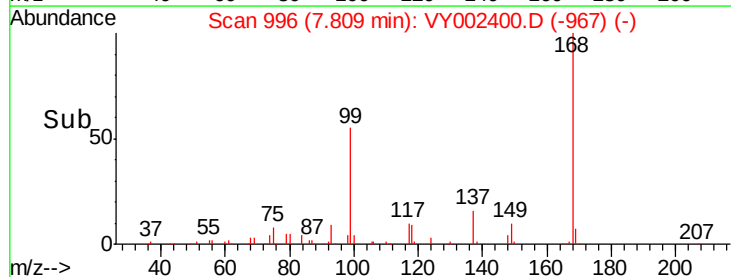
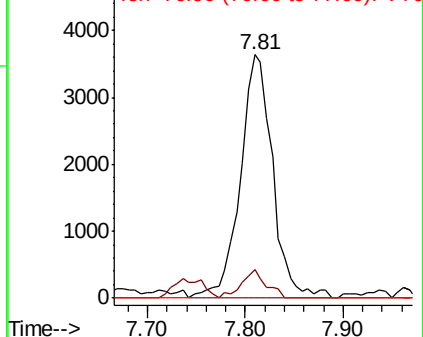
77 0.0 24.4 36.6#

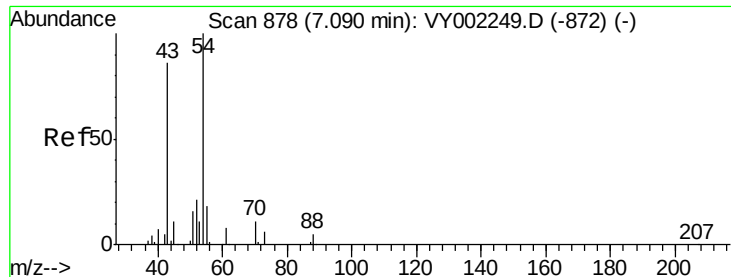


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

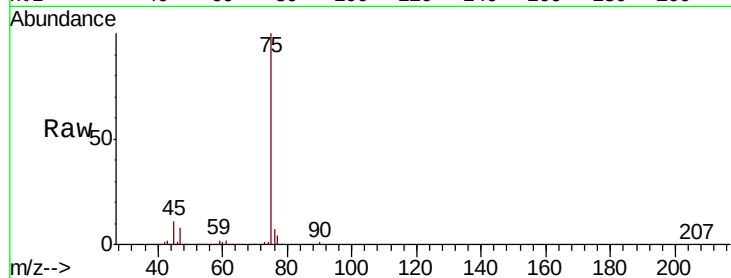




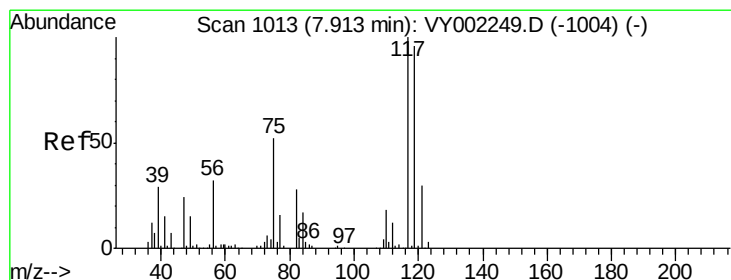
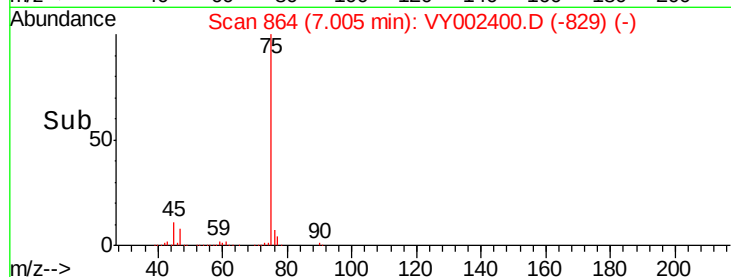
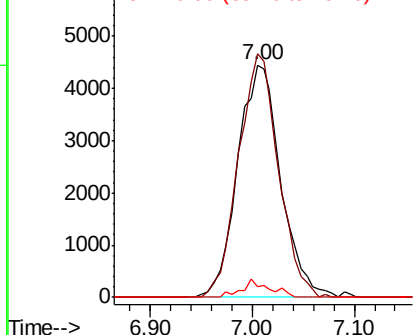
#37  
Ethyl Acetate  
Concen: 11.388 ug/l  
RT: 7.00 min Scan# 864  
Delta R.T. -0.09 min  
Lab File: VY002400.D  
Acq: 17 Apr 2020 15:34

Instrument :  
MSVOA\_Y  
ClientSampleId :

Tot Ion: 43 Resp: 12991  
Ion Ratio Lower Upper  
43 100  
61 98.0 11.8 17.6#  
70 4.7 9.1 13.7#

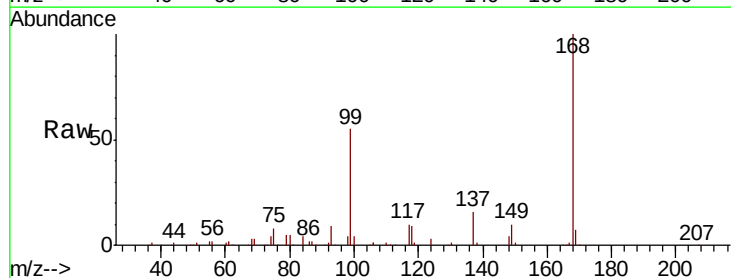


Abundance Ion 43.00 (42.70 to 43.70): VY0  
Ion 60.90 (60.60 to 61.60): VY0  
Ion 70.00 (69.70 to 70.70): VY0

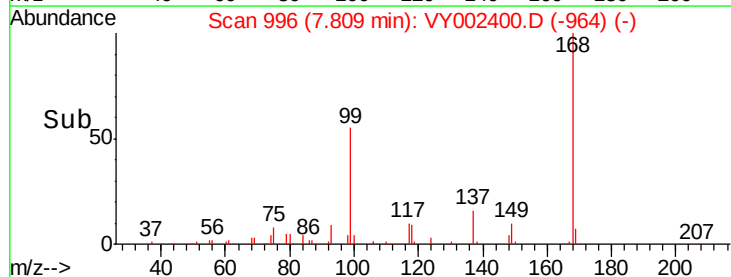
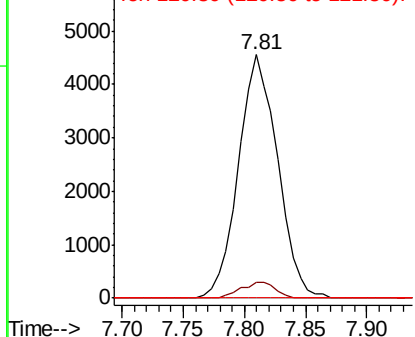


#38  
Carbon Tetrachloride  
Concen: 5.925 ug/l  
RT: 7.81 min Scan# 996  
Delta R.T. -0.10 min  
Lab File: VY002400.D  
Acq: 17 Apr 2020 15:34

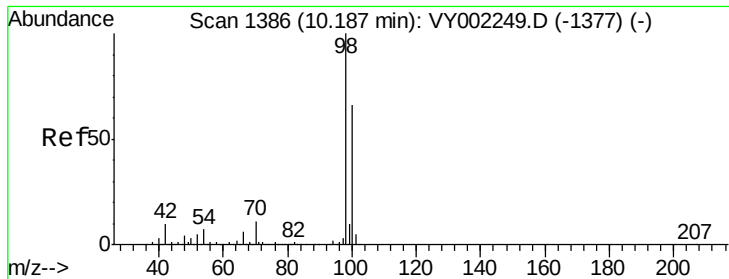
Tgt Ion: 117 Resp: 10120  
Ion Ratio Lower Upper  
117 100  
119 6.7 77.1 115.7#  
121 0.0 23.9 35.9#



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







#50

Toluene-d8

Concen: 48.202 ug/l

RT: 10.19 min Scan# 1387

Delta R.T. 0.01 min

Lab File: VY002400.D

Acq: 17 Apr 2020 15:34

Instrument :

MSVOA\_Y

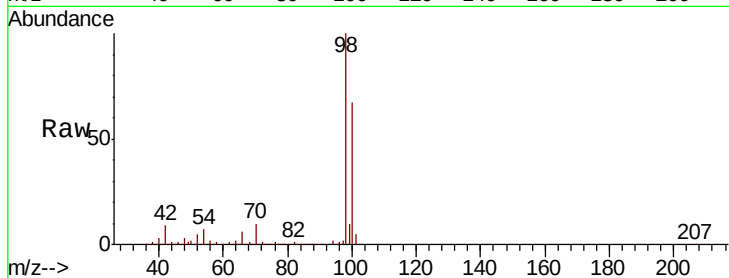
ClientSampleId :

Tot Ion: 98 Resp: 243373

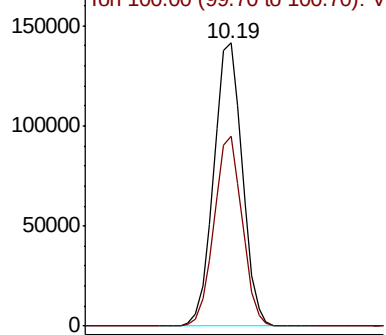
Ion Ratio Lower Upper

98 100

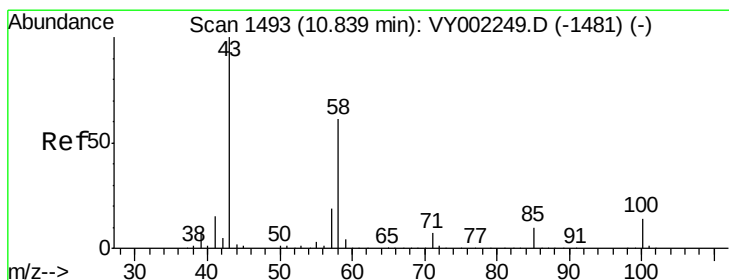
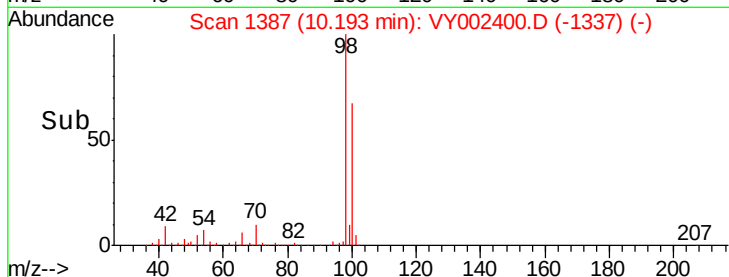
100 66.0 52.6 78.8



Abundance Ion 98.00 (97.70 to 98.70): VY002249.D (-1377) (-)



Time-->



#59

2-Hexanone

Concen: 1.213 ug/l

RT: 10.81 min Scan# 1489

Delta R.T. -0.02 min

Lab File: VY002400.D

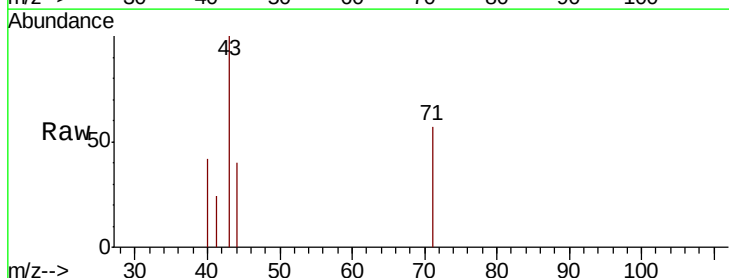
Acq: 17 Apr 2020 15:34

Tgt Ion: 43 Resp: 913

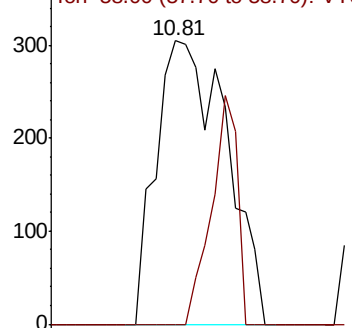
Ion Ratio Lower Upper

43 100

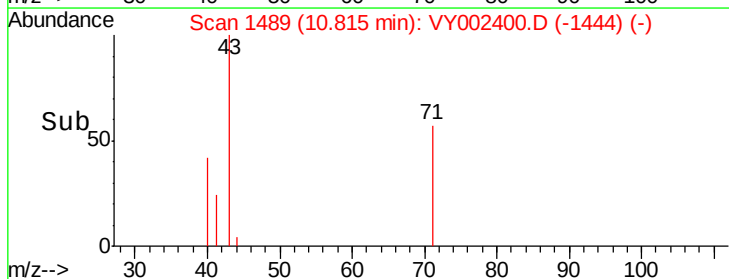
58 0.0 29.8 89.3#

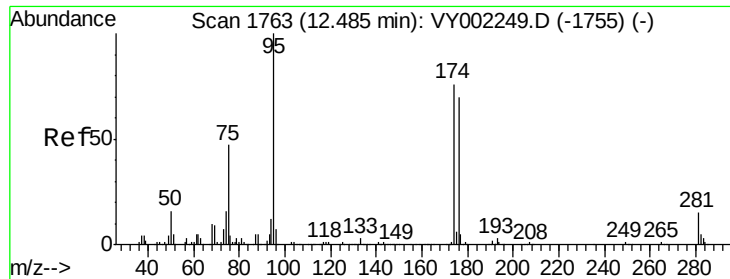


Abundance Ion 43.00 (42.70 to 43.70): VY002249.D (-1481) (-)



Time-->

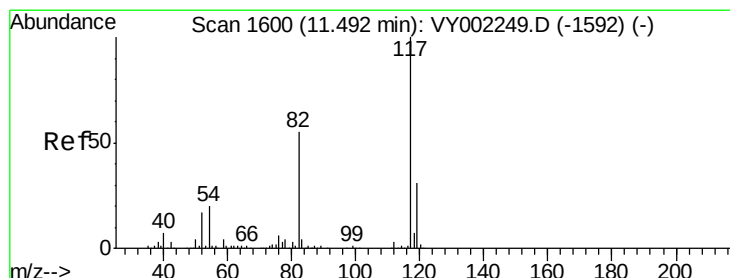
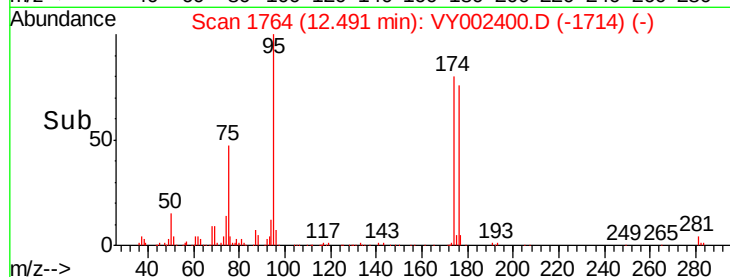
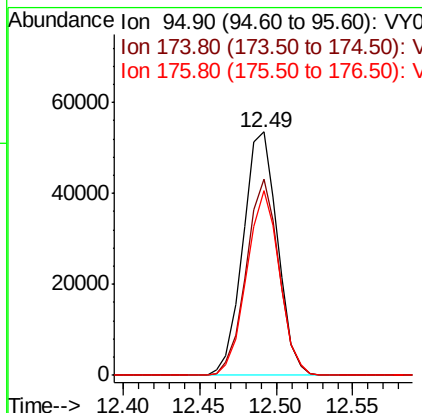
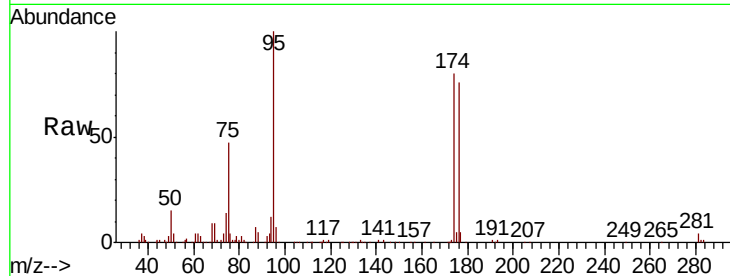




#62  
4-Bromofluorobenzene  
Concen: 50.210 ug/l  
RT: 12.49 min Scan# 1764  
Delta R.T. 0.01 min  
Lab File: VY002400.D  
Acq: 17 Apr 2020 15:34

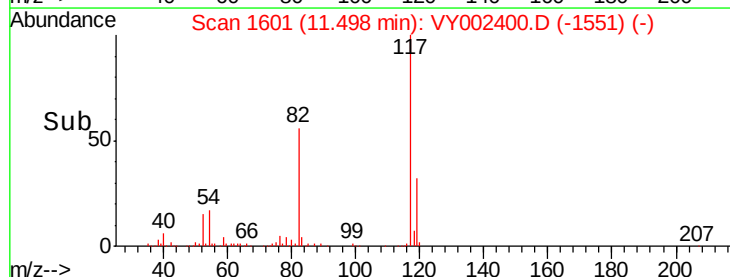
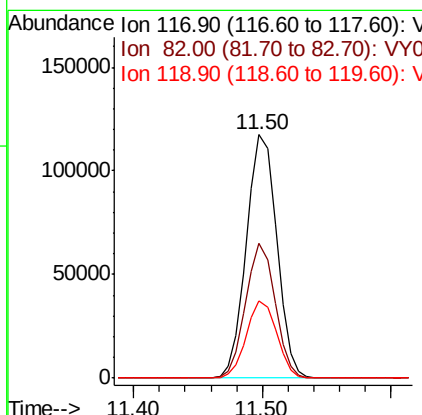
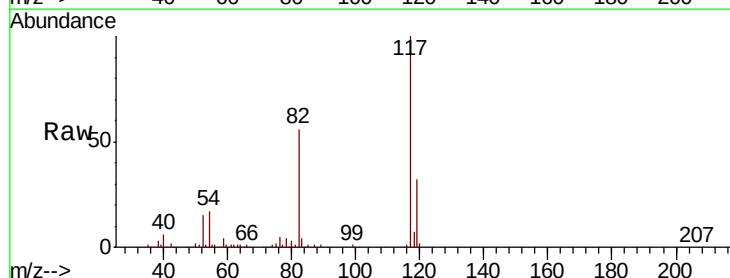
Instrument :  
MSVOA\_Y  
ClientSampleId :

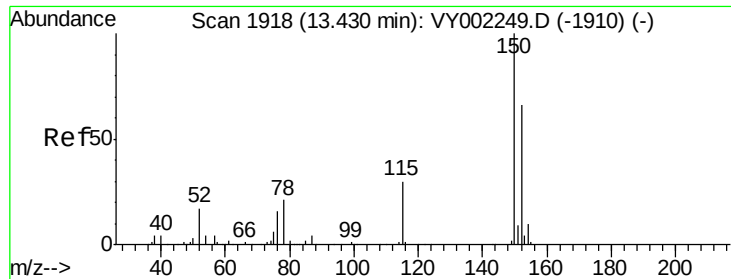
Tot Ion: 95 Resp: 83638  
Ion Ratio Lower Upper  
95 100  
174 76.9 0.0 150.6  
176 72.4 0.0 141.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. 0.01 min  
Lab File: VY002400.D  
Acq: 17 Apr 2020 15:34

Tgt Ion: 117 Resp: 191985  
Ion Ratio Lower Upper  
117 100  
82 55.6 44.2 66.4  
119 31.9 25.1 37.7





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.44 min Scan# 1919

Delta R.T. 0.01 min

Lab File: VY002400.D

Acq: 17 Apr 2020 15:34

Instrument :

MSVOA\_Y

ClientSampleId :

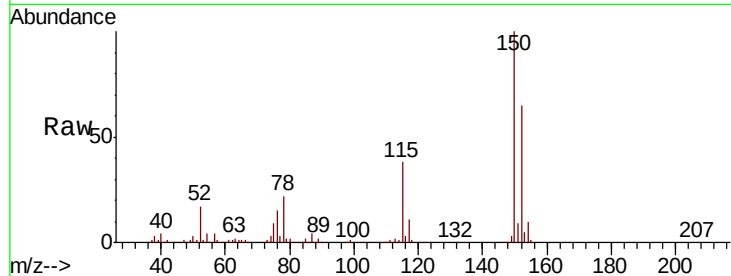
Tot Ion:152 Resp: 86233

Ion Ratio Lower Upper

152 100

115 58.7 30.7 92.1

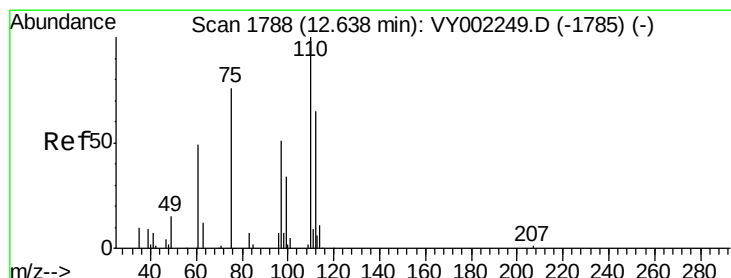
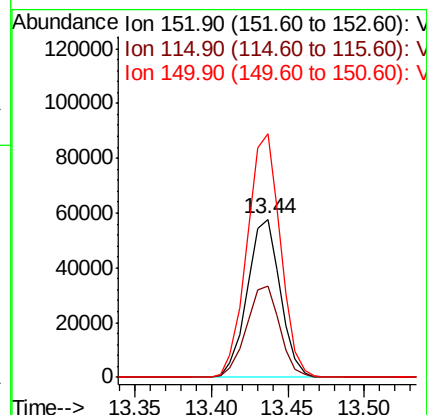
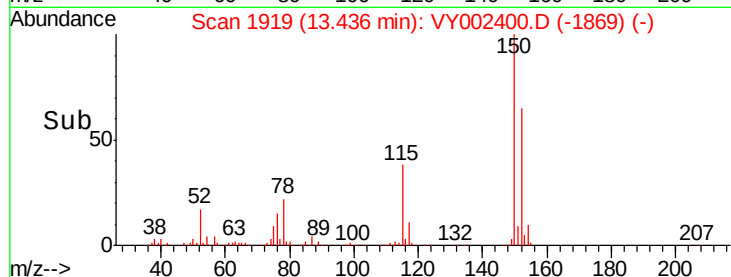
150 156.0 0.0 350.6



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: 38.918 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002400.D

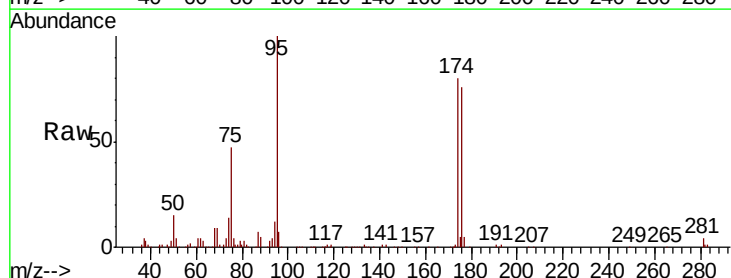
Acq: 17 Apr 2020 15:34

Tgt Ion: 75 Resp: 38971

Ion Ratio Lower Upper

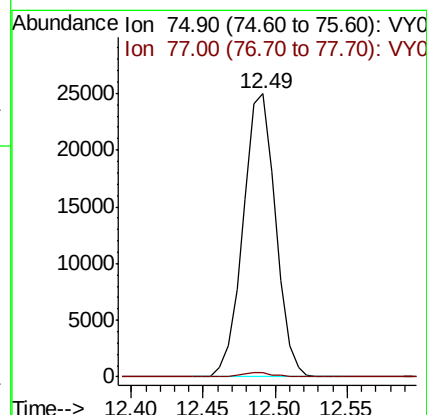
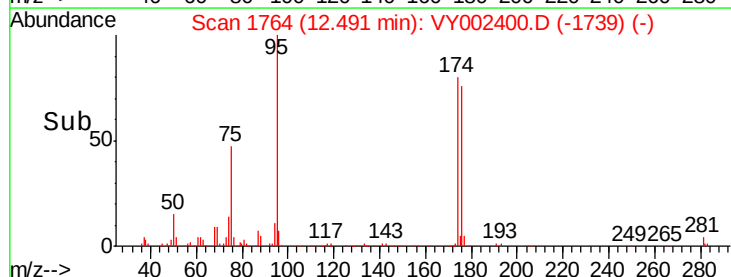
75 100

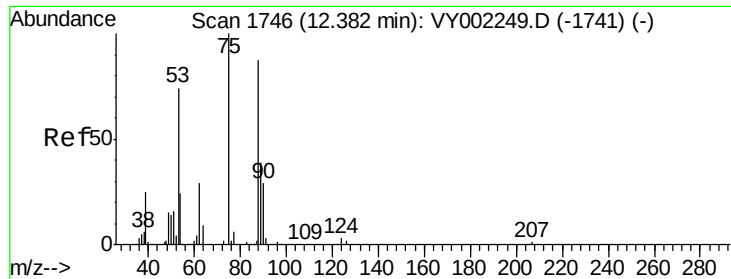
77 1.4 0.0 0.0#



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: 75.695 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.11 min

Lab File: VY002400.D

Acq: 17 Apr 2020 15:34

Instrument :

MSVOA\_Y

ClientSampleId :

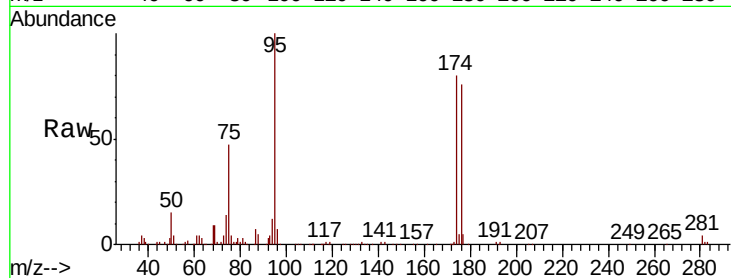
Tot Ion: 75 Resp: 38971

Ion Ratio Lower Upper

75 100

53 0.0 59.8 89.8#

89 0.1 37.0 55.6#



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

