

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY120519\  
 Data File : VY000884.D  
 Acq On : 05 Dec 2019 15:39  
 Operator : SY/MD  
 Sample : K6147-07RE  
 Misc : 5.07G/5ML/MSVOA Y/SOIL  
 ALS Vial : 15 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 P001-WC007

Quant Time: Dec 06 04:02:04 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112719S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Nov 27 12:40:47 2019  
 Response via : Initial Calibration

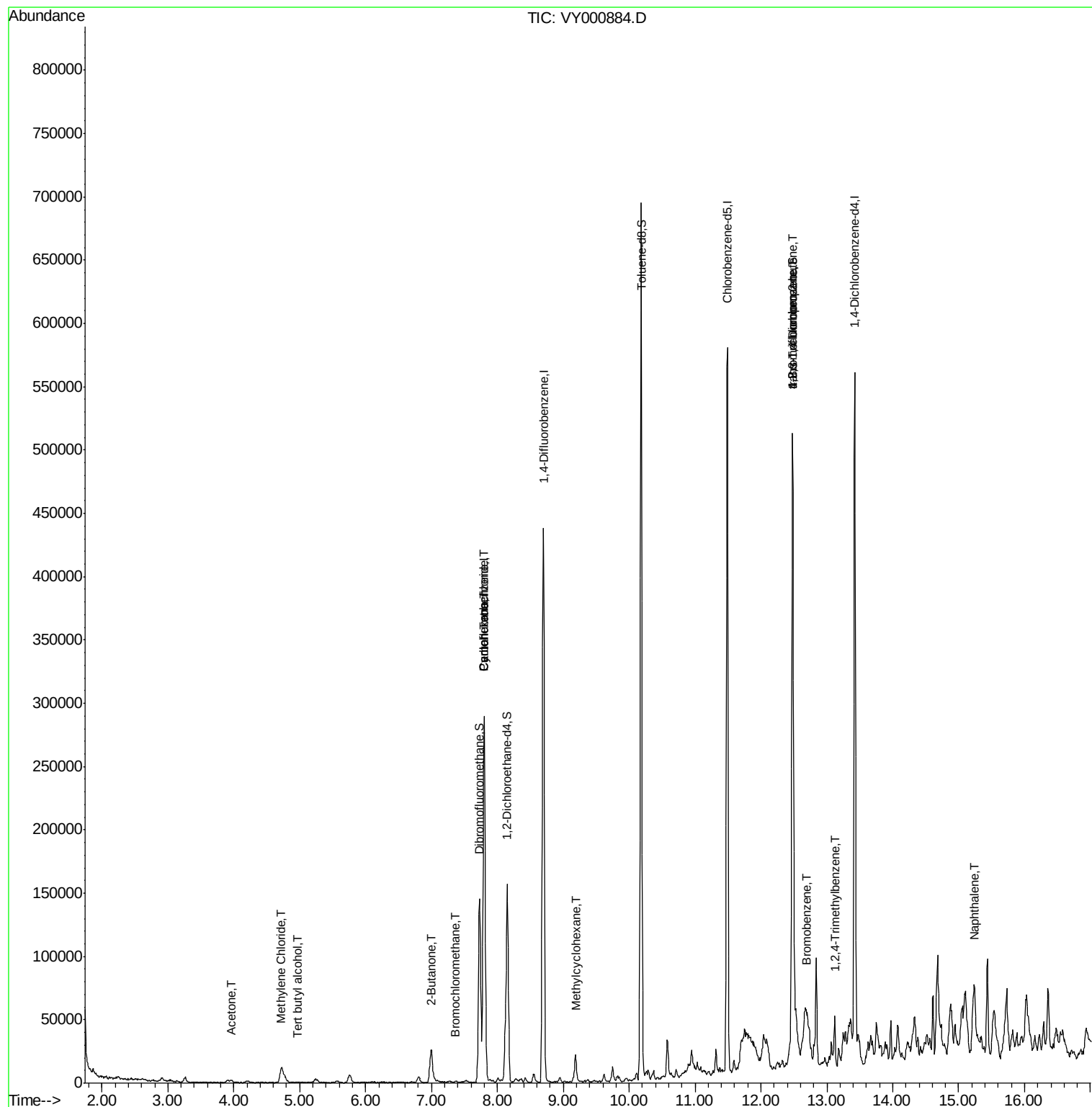
| Internal Standards             | R.T.   | QIon | Response | Conc      | Units  | Dev(Min) |
|--------------------------------|--------|------|----------|-----------|--------|----------|
| 1) Pentafluorobenzene          | 7.80   | 168  | 223978   | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene        | 8.70   | 114  | 390272   | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5           | 11.49  | 117  | 321632   | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4     | 13.42  | 152  | 130885   | 50.00     | ug/l   | 0.00     |
| System Monitoring Compounds    |        |      |          |           |        |          |
| 33) 1,2-Dichloroethane-d4      | 8.16   | 65   | 100480   | 42.22     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 84.44% |          |
| 35) Dibromofluoromethane       | 7.73   | 113  | 104913   | 46.13     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 92.26% |          |
| 50) Toluene-d8                 | 10.18  | 98   | 453821   | 49.91     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 99.82% |          |
| 62) 4-Bromofluorobenzene       | 12.48  | 95   | 138112   | 40.44     | ug/l   | 0.00     |
| Spiked Amount                  | 50.000 |      | Recovery | =         | 80.88% |          |
| Target Compounds               |        |      |          |           |        |          |
|                                |        |      |          | Qvalue    |        |          |
| 5) Bromomethane                | 2.68   | 94   | 180      | Below Cal | #      | 50       |
| 11) Tert butyl alcohol         | 4.97   | 59   | 518      | 2.163     | ug/l # | 74       |
| 16) Acetone                    | 3.96   | 43   | 3243     | 5.940     | ug/l # | 82       |
| 20) Methylene Chloride         | 4.72   | 84   | 9470     | 3.291     | ug/l # | 82       |
| 25) 2-Butanone                 | 7.00   | 43   | 1728     | 1.713     | ug/l   | 94       |
| 28) Bromochloromethane         | 7.36   | 49   | 28       | 2.031     | ug/l # | 15       |
| 31) Cyclohexane                | 7.80   | 56   | 9085     | 1.798     | ug/l # | 54       |
| 38) Carbon Tetrachloride       | 7.80   | 117  | 23828    | 6.895     | ug/l # | 15       |
| 39) Methylcyclohexane          | 9.19   | 83   | 10148    | 1.974     | ug/l # | 89       |
| 76) 1,2,3-Trichloropropane     | 12.48  | 75   | 70453    | 47.510    | ug/l # | 100      |
| 77) Bromobenzene               | 12.69  | 156  | 47479    | 21.018    | ug/l # | 1        |
| 81) trans-1,4-Dichloro-2-buten | 12.48  | 75   | 70453    | 93.323    | ug/l # | 18       |
| 84) 1,2,4-Trimethylbenzene     | 13.12  | 105  | 18383    | 2.129     | ug/l   | 99       |
| 95) Naphthalene                | 15.23  | 128  | 10775    | 1.720     | ug/l # | 54       |

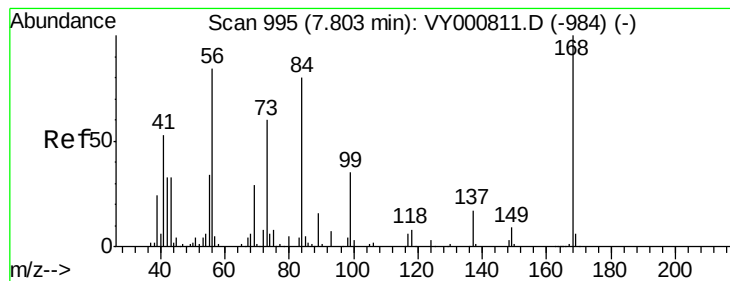
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY120519\  
Data File : VY000884.D  
Acq On : 05 Dec 2019 15:39  
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Sample : K6147-07RE  
Misc : 5.07G/5ML/MSVOA Y/SOIL  
ALS Vial : 15 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
P001-WC007

Quant Time: Dec 06 04:02:04 2019  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y112719S.M  
Quant Title : SW846 8260  
QLast Update : Wed Nov 27 12:40:47 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY000884.D

Acq: 05 Dec 2019 15:39

Instrument :

MSVOA\_Y

ClientSampleId :

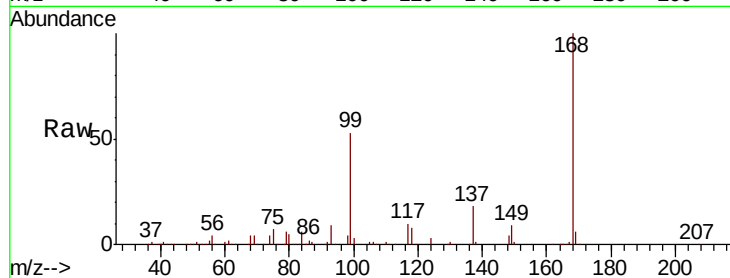
P001-WC007

Tot Ion:168 Resp: 223978

Ion Ratio Lower Upper

168 100

99 53.1 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): VY000884.D (-946) (-)

Ion 98.90 (98.60 to 99.60): VY000884.D (-946) (-)

7.80

100000

80000

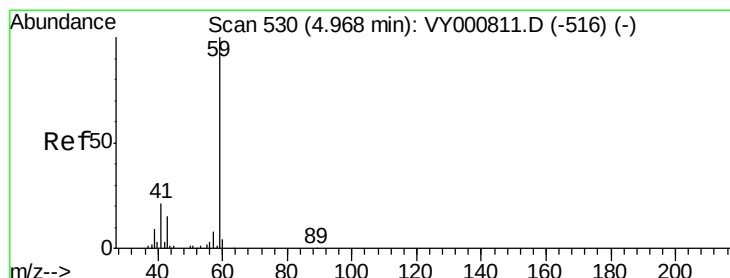
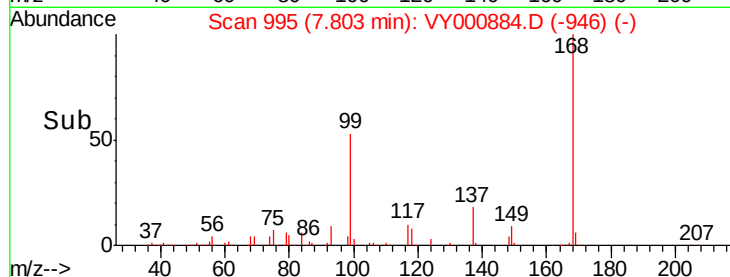
60000

40000

20000

0

Time-->



#11

Tert butyl alcohol

Concen: 2.163 ug/l

RT: 4.97 min Scan# 531

Delta R.T. 0.01 min

Lab File: VY000884.D

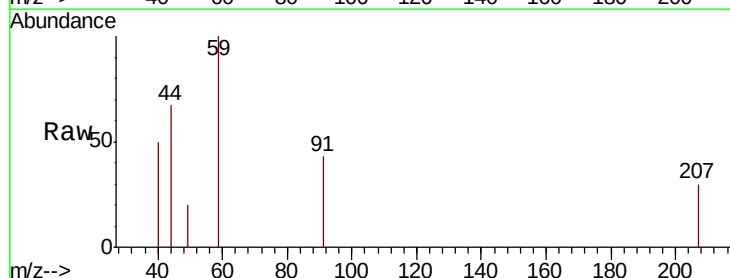
Acq: 05 Dec 2019 15:39

Tgt Ion: 59 Resp: 518

Ion Ratio Lower Upper

59 100

57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VY000884.D (-481) (-)

Ion 57.00 (56.70 to 57.70): VY000884.D (-481) (-)

4.97

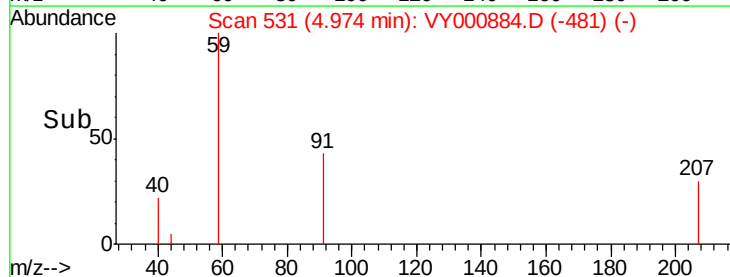
300

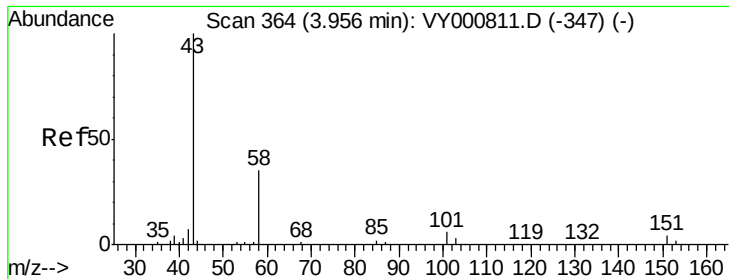
200

100

0

Time-->





#16

Acetone

Concen: 5.940 ug/l

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VY000884.D

Acq: 05 Dec 2019 15:39

Instrument :

MSVOA\_Y

ClientSampled :

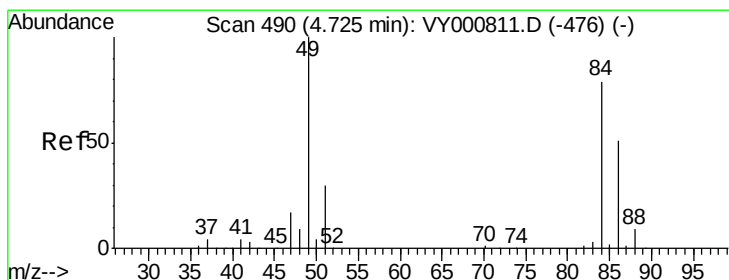
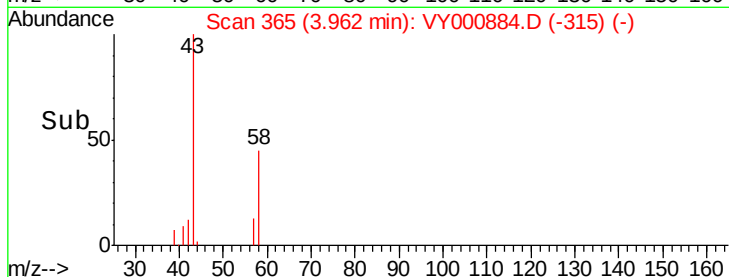
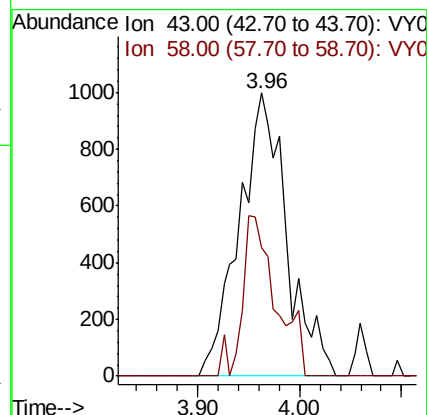
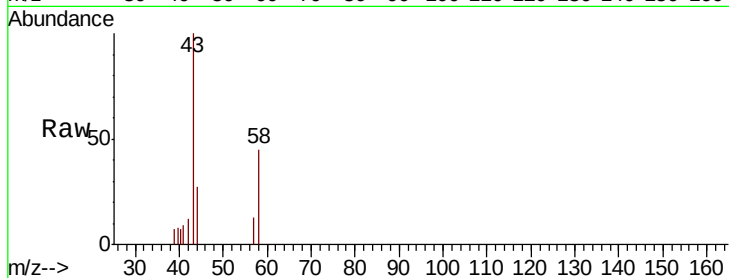
P001-WC007

Tot Ion: 43 Resp: 3243

Ion Ratio Lower Upper

43 100

58 45.4 28.0 42.0#



#20

Methylene Chloride

Concen: 3.291 ug/l

RT: 4.72 min Scan# 489

Delta R.T. -0.01 min

Lab File: VY000884.D

Acq: 05 Dec 2019 15:39

Tgt Ion: 84 Resp: 9470

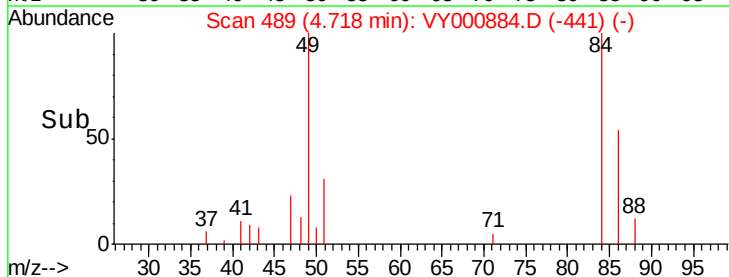
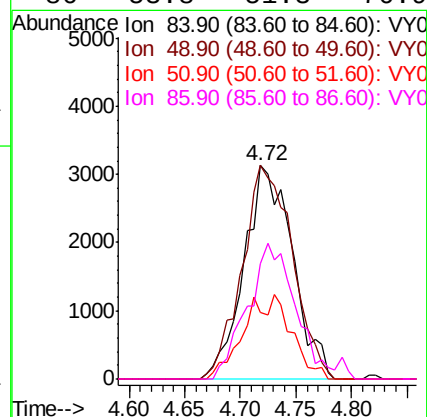
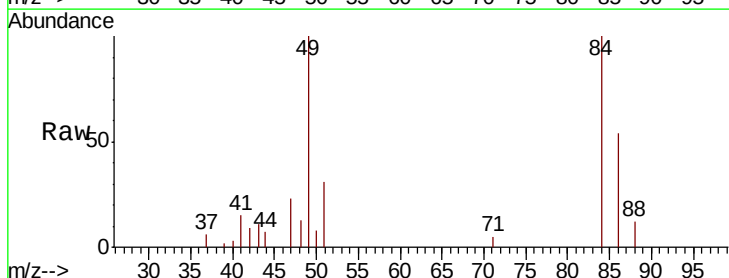
Ion Ratio Lower Upper

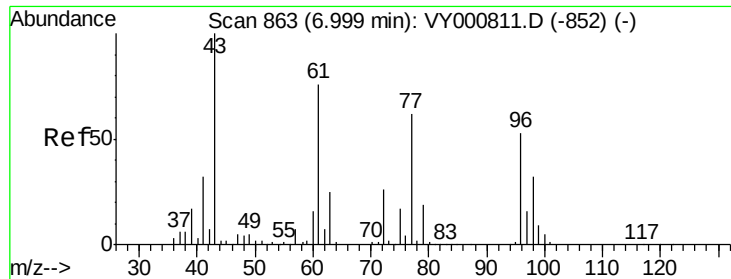
84 100

49 100.2 101.3 151.9#

51 31.5 30.6 45.8

86 53.8 51.3 76.9





#25

2-Butanone

Concen: 1.713 ug/l

RT: 7.00 min Scan# 863

Delta R.T. -0.00 min

Lab File: VY000884.D

Acq: 05 Dec 2019 15:39

Instrument :

MSVOA\_Y

ClientSampleId :

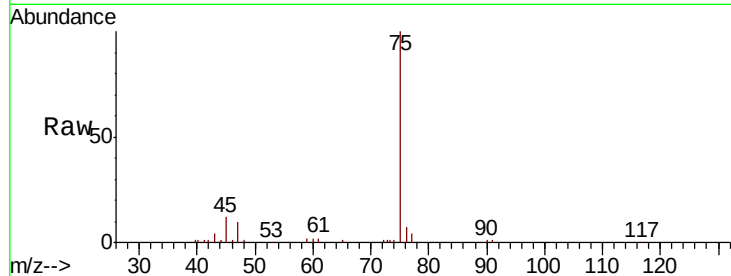
P001-WC007

Tot Ion: 43 Resp: 1728

Ion Ratio Lower Upper

43 100

72 23.3 21.0 31.4



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 72.00 (71.70 to 72.70): VY0

800

600

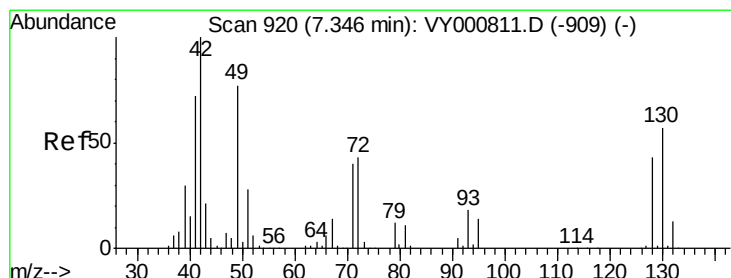
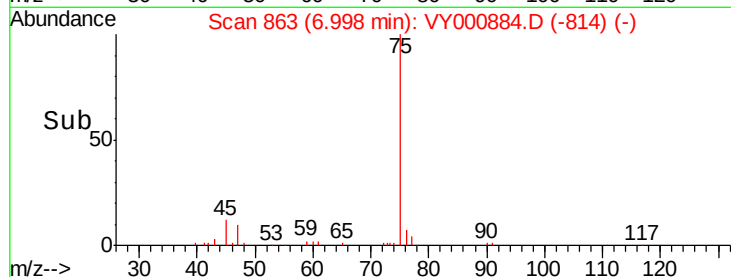
400

200

0

6.90 6.95 7.00 7.05

Time-->



#28

Bromochloromethane

Concen: 2.031 ug/l

RT: 7.36 min Scan# 922

Delta R.T. 0.01 min

Lab File: VY000884.D

Acq: 05 Dec 2019 15:39

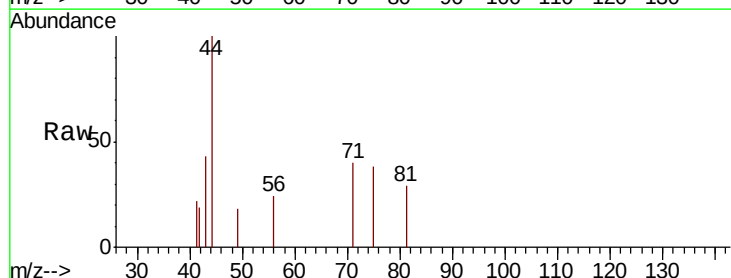
Tgt Ion: 49 Resp: 28

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.8

130 0.0 58.7 88.1#



Abundance Ion 48.90 (48.60 to 49.60): VY0

Ion 128.80 (128.50 to 129.50): V

Ion 129.80 (129.50 to 130.50): V

100

80

60

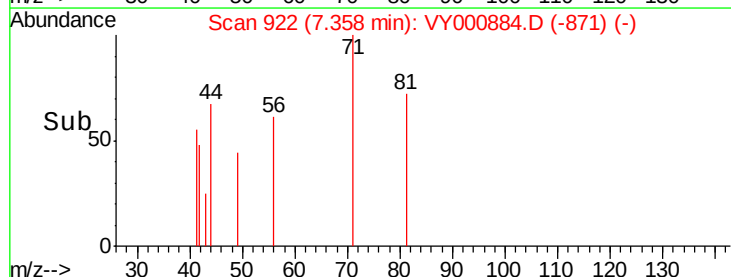
40

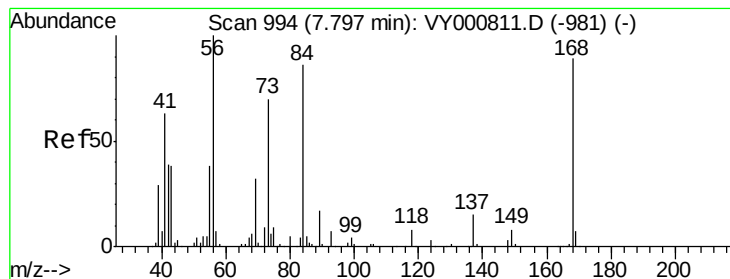
20

0

7.34 7.35 7.36 7.37

Time-->





#31

Cyclohexane

Concen: 1.798 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.00 min

Lab File: VY000884.D

Acq: 05 Dec 2019 15:39

Instrument :

MSVOA\_Y

ClientSampleId :

P001-WC007

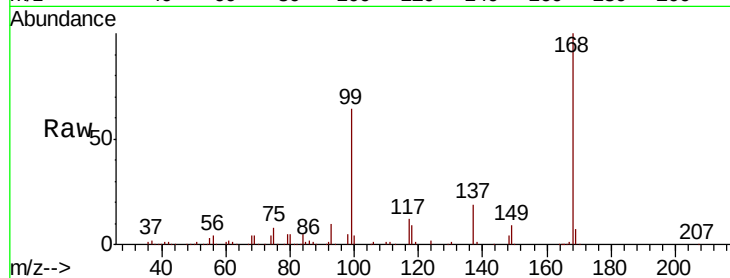
Tot Ion: 56 Resp: 9085

Ion Ratio Lower Upper

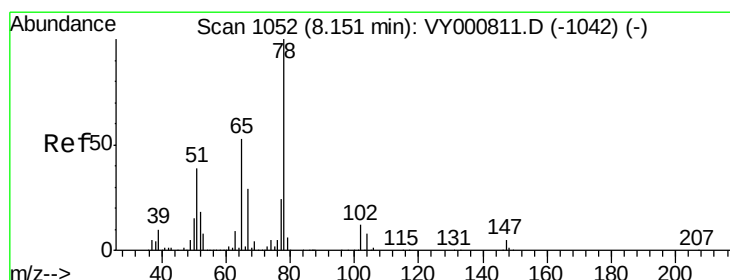
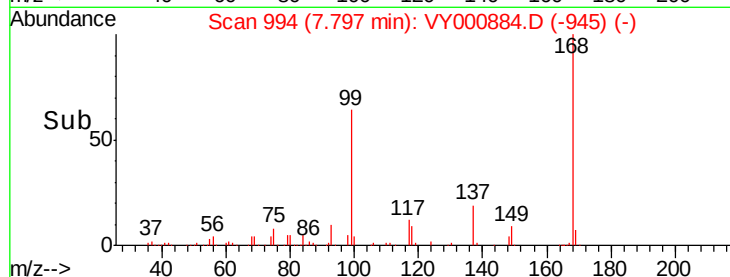
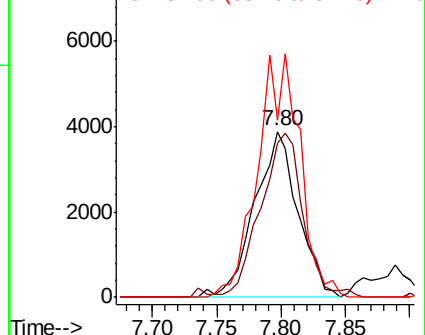
56 100

69 92.6 25.9 38.9#

84 107.0 68.6 102.8#



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: 42.219 ug/l

RT: 8.16 min Scan# 1053

Delta R.T. 0.01 min

Lab File: VY000884.D

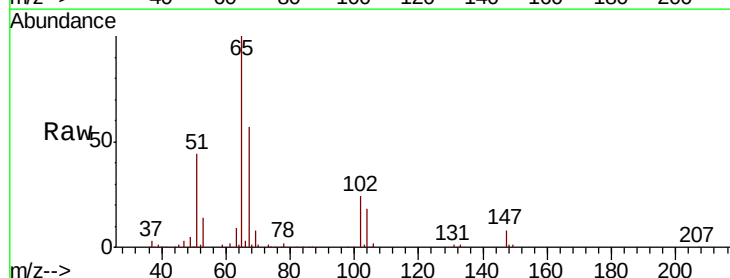
Acq: 05 Dec 2019 15:39

Tgt Ion: 65 Resp: 100480

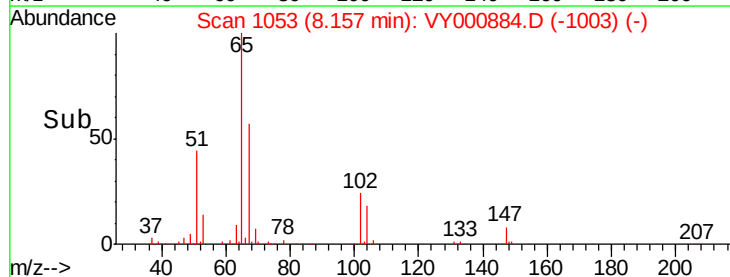
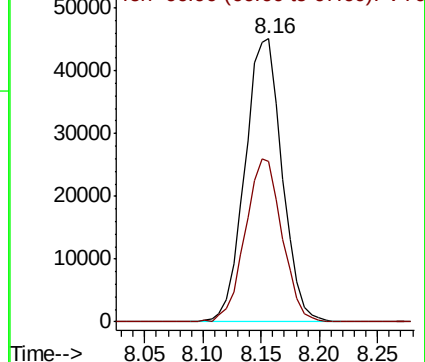
Ion Ratio Lower Upper

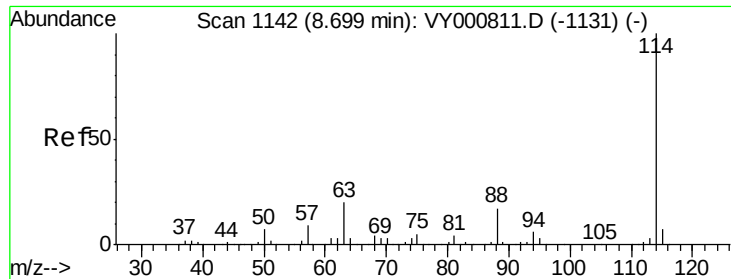
65 100

67 57.1 0.0 112.0



Abundance Ion 64.90 (64.60 to 65.60): VY0  
Ion 66.90 (66.60 to 67.60): VY0

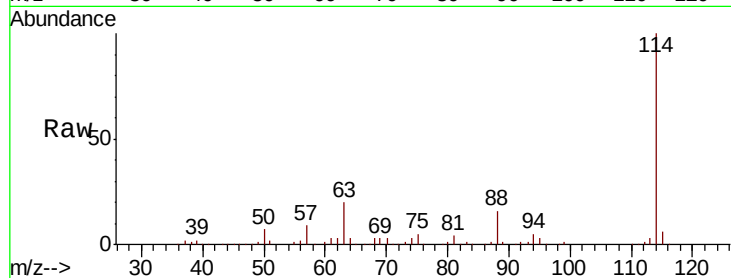




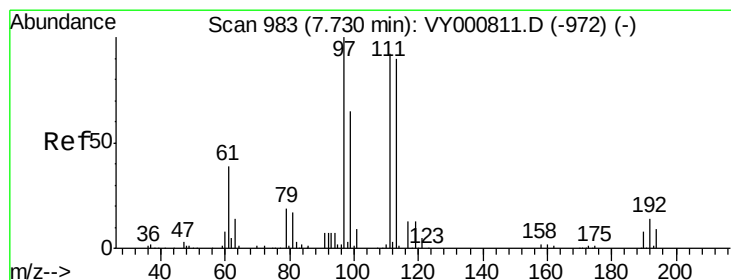
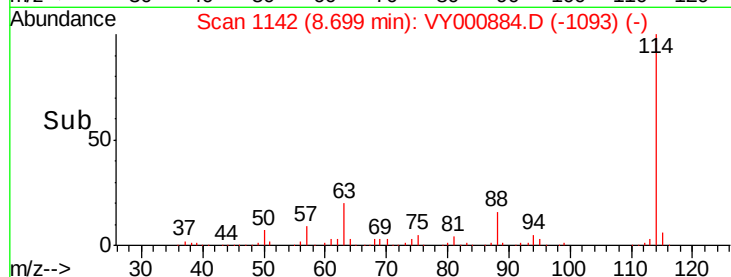
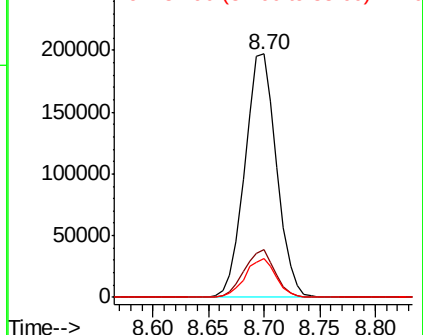
#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.70 min Scan# 1142  
 Delta R.T. -0.00 min  
 Lab File: VY000884.D  
 Acq: 05 Dec 2019 15:39

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 P001-WC007

Tot Ion:114 Resp: 390272  
 Ion Ratio Lower Upper  
 114 100  
 63 19.6 0.0 39.8  
 88 15.9 0.0 33.2

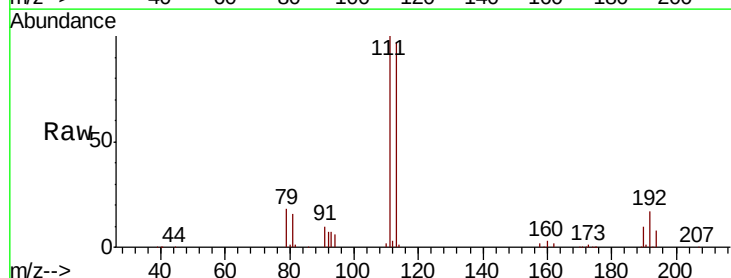


Abundance Ion 113.90 (113.60 to 114.60): V  
 Ion 63.00 (62.70 to 63.70): VY0  
 Ion 87.90 (87.60 to 88.60): VY0

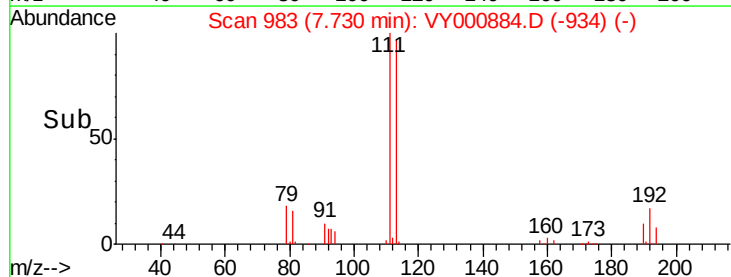
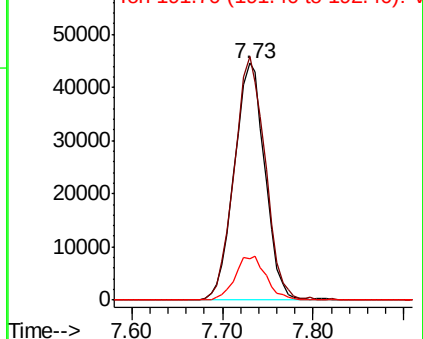


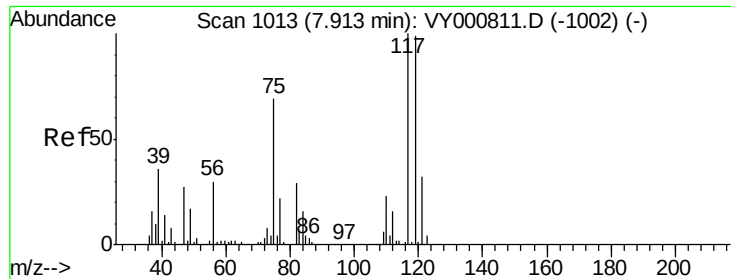
#35  
 Dibromofluoromethane  
 Concen: 46.126 ug/l  
 RT: 7.73 min Scan# 983  
 Delta R.T. -0.00 min  
 Lab File: VY000884.D  
 Acq: 05 Dec 2019 15:39

Tgt Ion:113 Resp: 104913  
 Ion Ratio Lower Upper  
 113 100  
 111 103.2 82.4 123.6  
 192 18.7 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

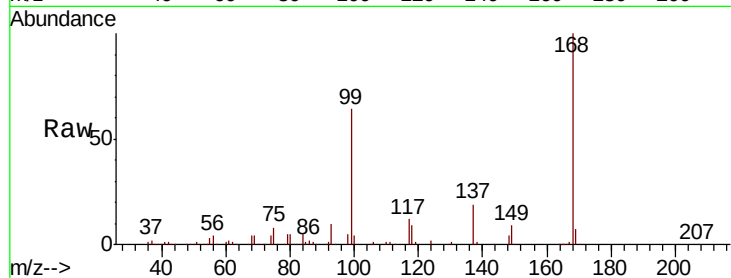




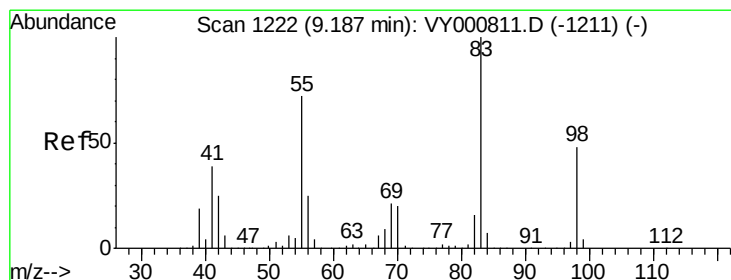
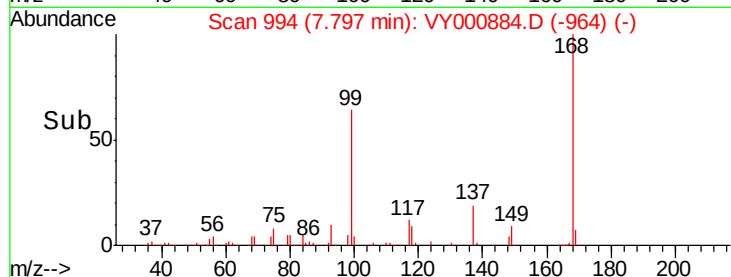
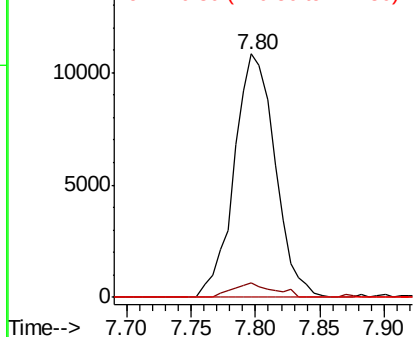
#38  
Carbon Tetrachloride  
Concen: 6.895 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.12 min  
Lab File: VY000884.D  
Acq: 05 Dec 2019 15:39

Instrument :  
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ClientSampleId :  
P001-WC007

Tot Ion:117 Resp: 23828  
Ion Ratio Lower Upper  
117 100  
119 5.9 79.3 118.9#  
121 0.0 25.5 38.3#

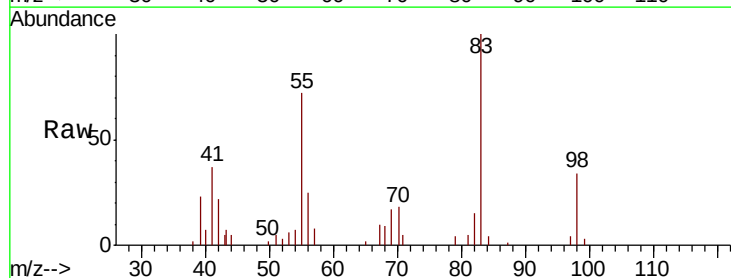


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

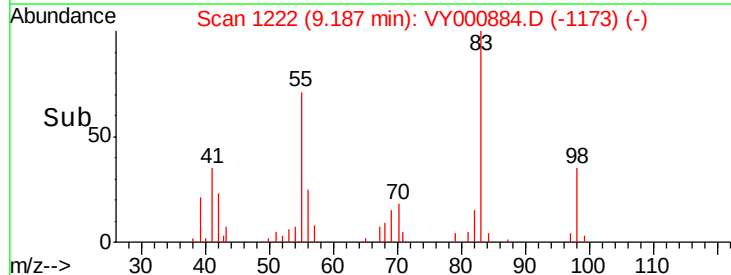
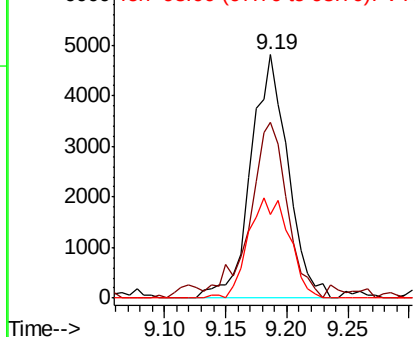


#39  
Methylcyclohexane  
Concen: 1.974 ug/l  
RT: 9.19 min Scan# 1222  
Delta R.T. -0.00 min  
Lab File: VY000884.D  
Acq: 05 Dec 2019 15:39

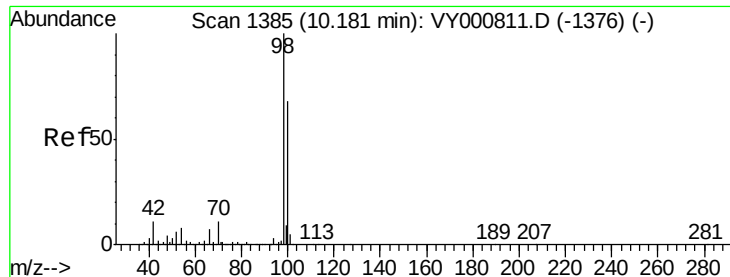
Tgt Ion: 83 Resp: 10148  
Ion Ratio Lower Upper  
83 100  
55 69.0 57.8 86.6  
98 34.4 38.6 58.0#



Abundance Ion 83.00 (82.70 to 83.70): VY0  
Ion 55.00 (54.70 to 55.70): VY0  
Ion 98.00 (97.70 to 98.70): VY0







#50

Toluene-d8

Concen: 49.907 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY000884.D

Acq: 05 Dec 2019 15:39

Instrument :

MSVOA\_Y

ClientSampleId :

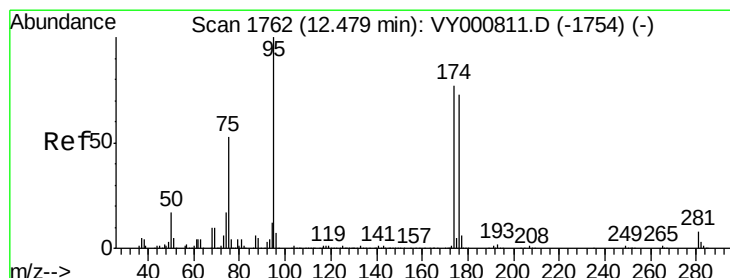
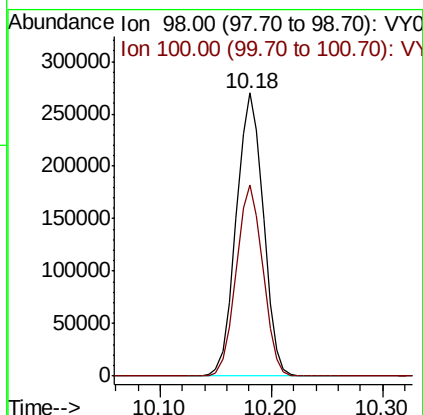
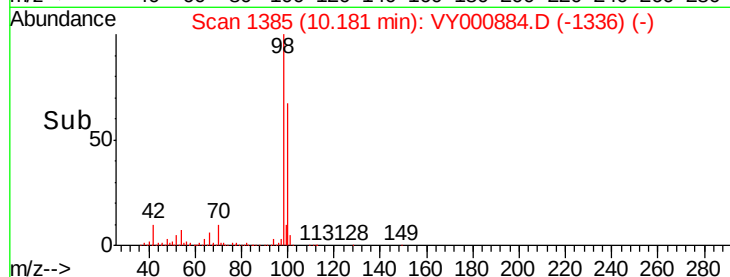
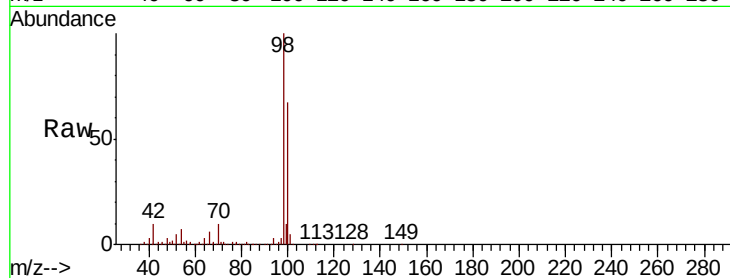
P001-WC007

Tot Ion: 98 Resp: 453821

Ion Ratio Lower Upper

98 100

100 66.4 53.1 79.7



#62

4-Bromofluorobenzene

Concen: 40.442 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY000884.D

Acq: 05 Dec 2019 15:39

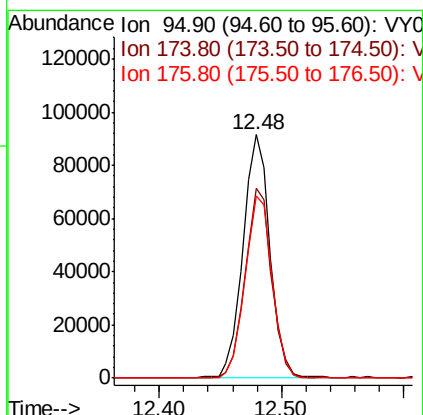
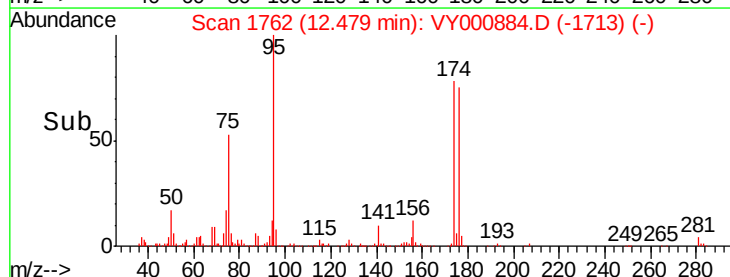
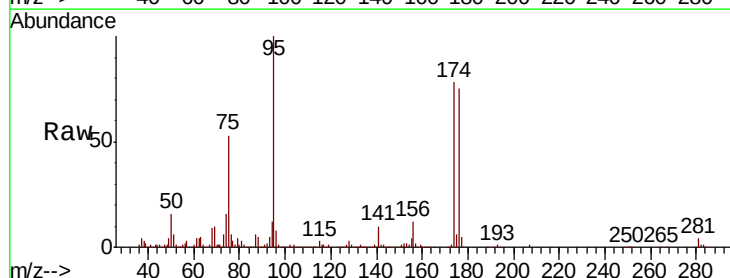
Tgt Ion: 95 Resp: 138112

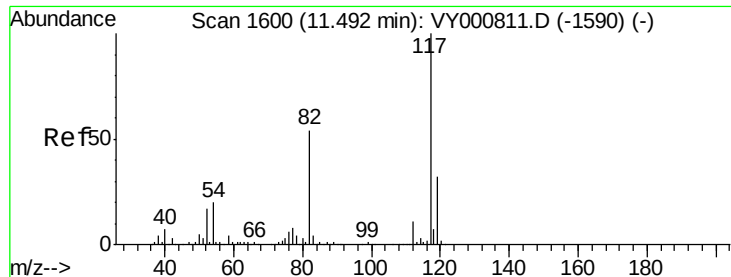
Ion Ratio Lower Upper

95 100

174 76.7 0.0 150.6

176 76.3 0.0 145.2

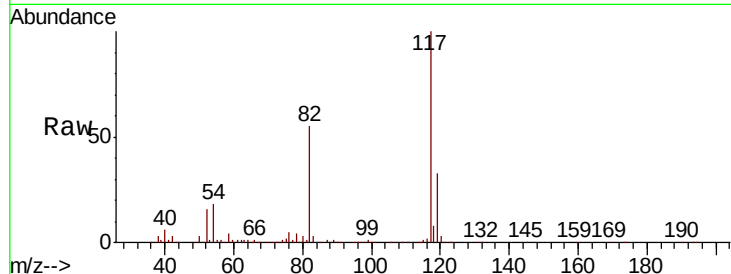




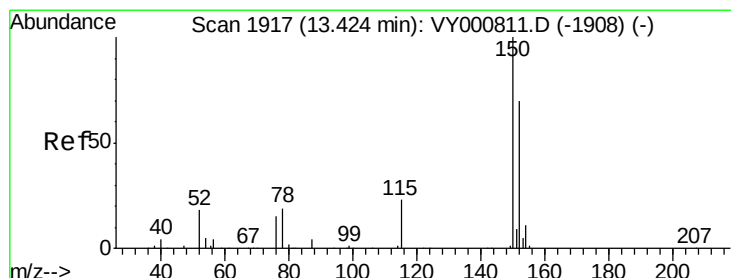
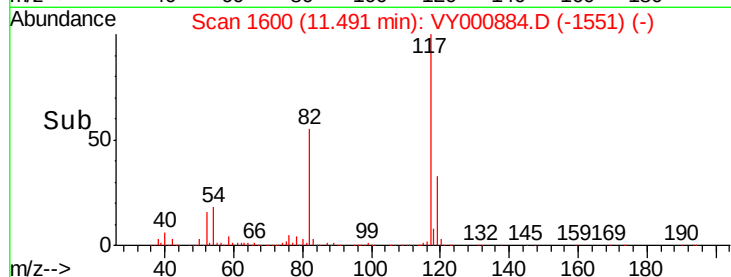
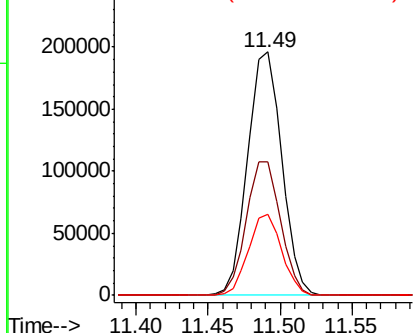
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY000884.D  
Acq: 05 Dec 2019 15:39

Instrument :  
MSVOA\_Y  
ClientSampled :  
P001-WC007

Tot Ion:117 Resp: 321632  
Ion Ratio Lower Upper  
117 100  
82 55.0 43.1 64.7  
119 33.4 25.3 37.9

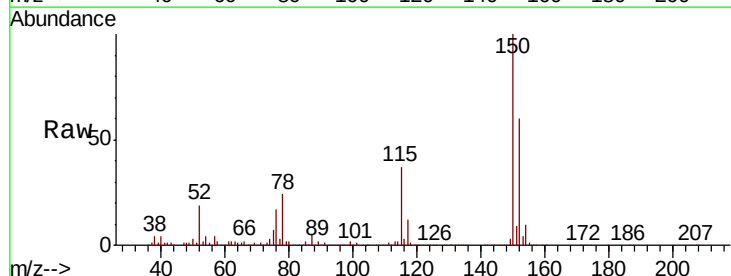


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

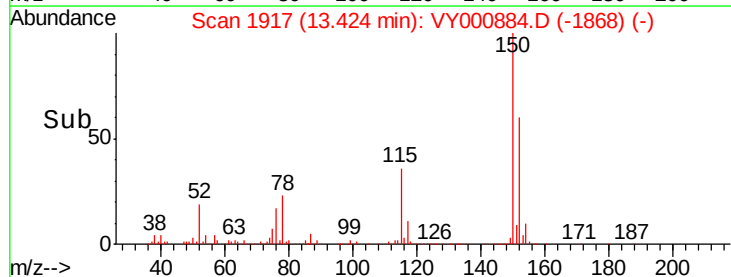
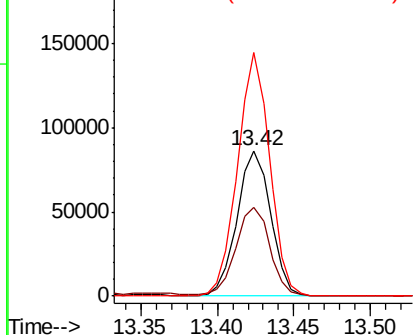


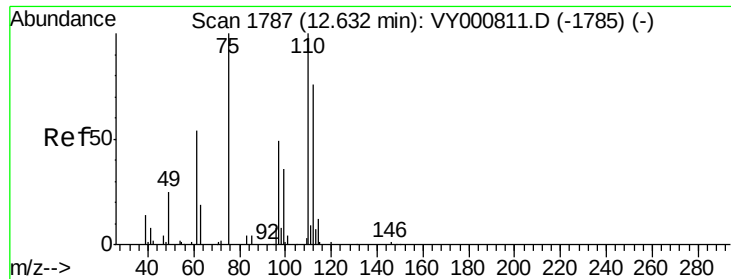
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY000884.D  
Acq: 05 Dec 2019 15:39

Tgt Ion:152 Resp: 130885  
Ion Ratio Lower Upper  
152 100  
115 61.4 29.3 87.8  
150 160.4 0.0 351.2



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: 47.510 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000884.D

Acq: 05 Dec 2019 15:39

Instrument :

MSVOA\_Y

ClientSampled :

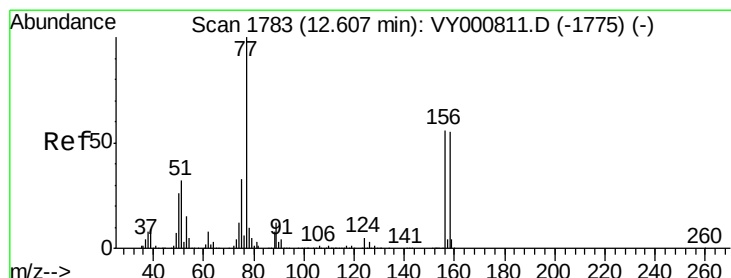
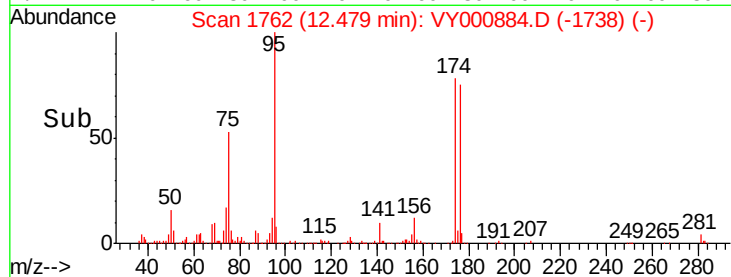
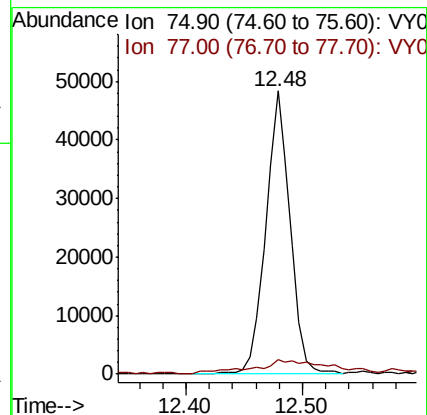
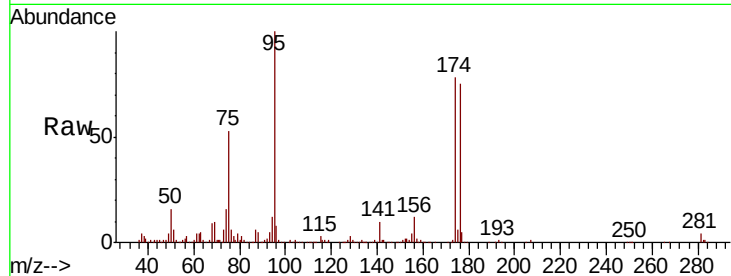
P001-WC007

Tot Ion: 75 Resp: 70453

Ion Ratio Lower Upper

75 100

77 14.1 0.0 0.0#



#77

Bromobenzene

Concen: 21.018 ug/l

RT: 12.69 min Scan# 1797

Delta R.T. 0.09 min

Lab File: VY000884.D

Acq: 05 Dec 2019 15:39

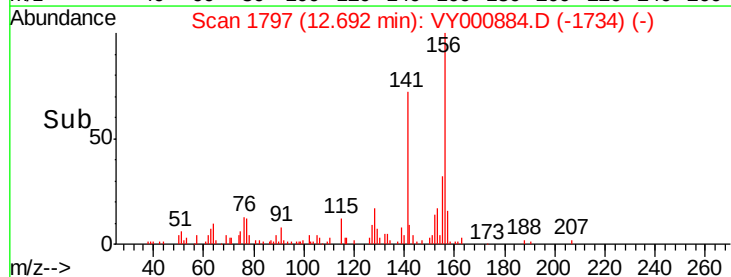
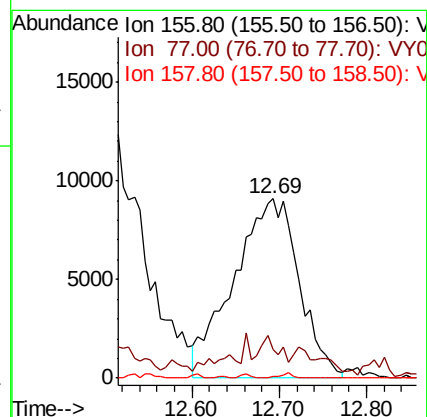
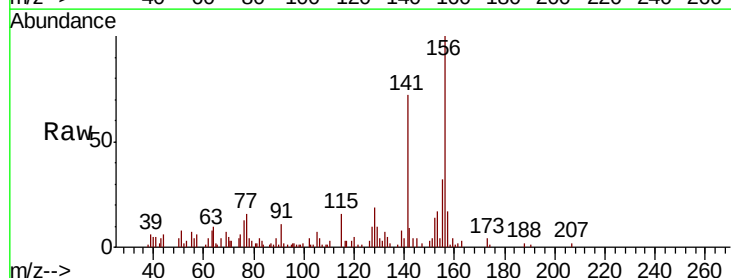
Tgt Ion: 156 Resp: 47479

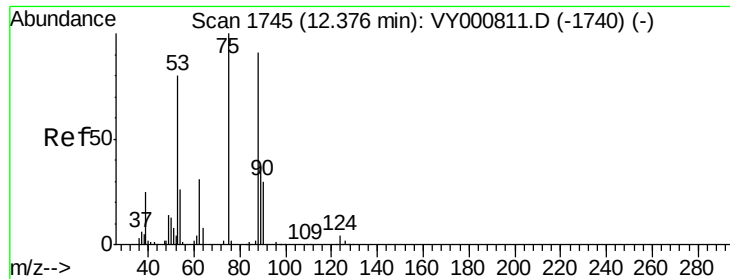
Ion Ratio Lower Upper

156 100

77 3.2 102.6 307.7#

158 0.0 47.6 142.8#





#81

trans-1,4-Dichloro-2-butene

Concen: 93.323 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000884.D

Acq: 05 Dec 2019 15:39

Instrument :

MSVOA\_Y

ClientSampleId :

P001-WC007

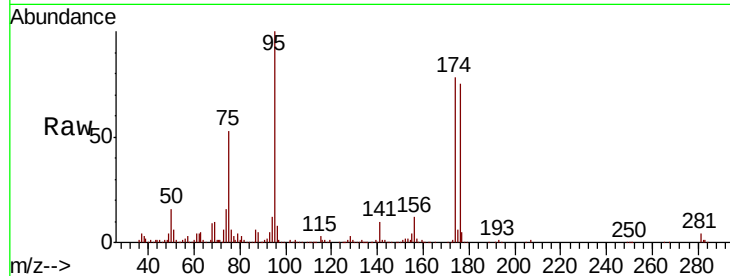
Tot Ion: 75 Resp: 70453

Ion Ratio Lower Upper

75 100

53 0.2 64.6 96.8#

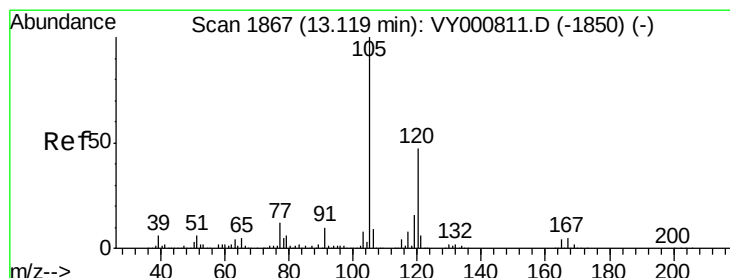
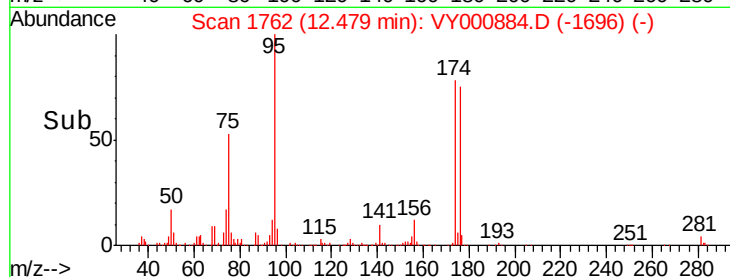
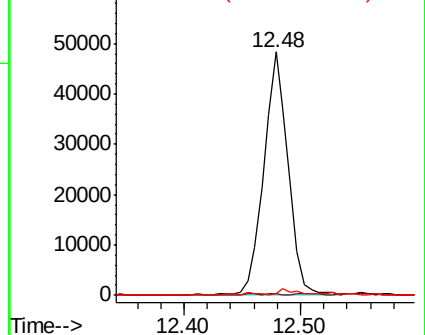
89 1.8 33.6 50.4#



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



#84

1,2,4-Trimethylbenzene

Concen: 2.129 ug/l

RT: 13.12 min Scan# 1867

Delta R.T. -0.00 min

Lab File: VY000884.D

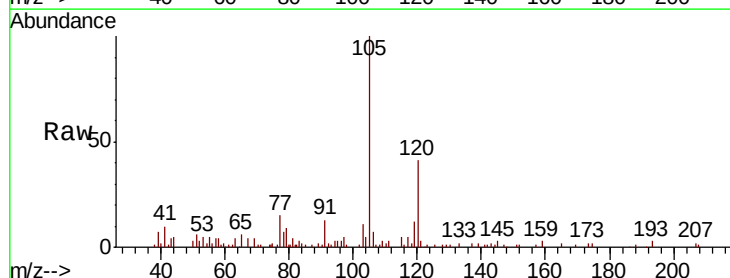
Acq: 05 Dec 2019 15:39

Tgt Ion:105 Resp: 18383

Ion Ratio Lower Upper

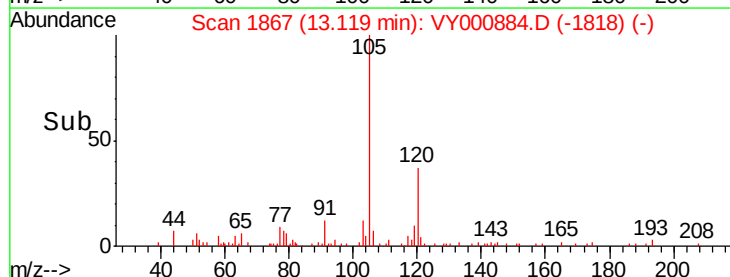
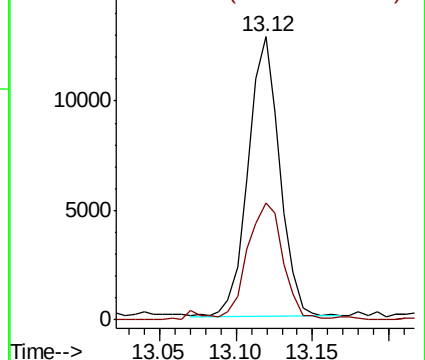
105 100

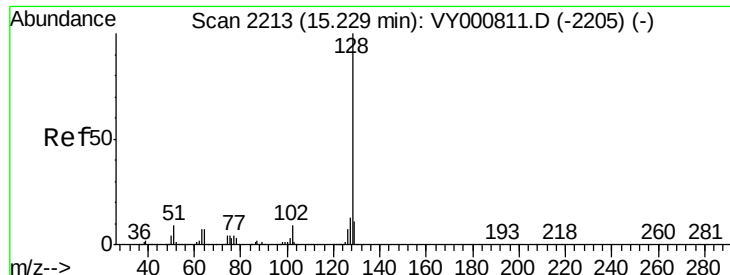
120 46.0 22.6 67.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

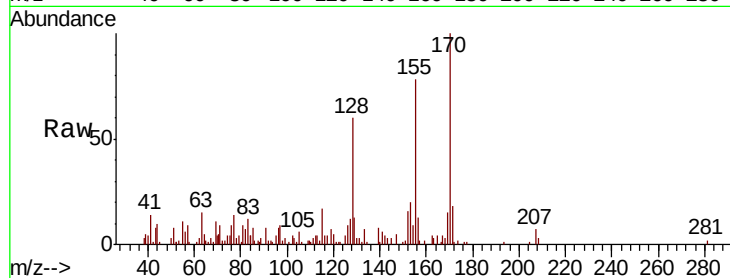




#95  
Naphthalene  
Concen: 1.720 ug/l  
RT: 15.23 min Scan# 2213  
Delta R.T. -0.00 min  
Lab File: VY000884.D  
Acq: 05 Dec 2019 15:39

Instrument :  
MSVOA\_Y  
ClientSampleId :  
P001-WC007

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 127     | 28.6  | 10.1  | 15.1# |
| 129     | 30.8  | 8.8   | 13.2# |



Abundance Ion 128.00 (127.70 to 128.70): V  
Ion 127.00 (126.70 to 127.70): V  
Ion 129.00 (128.70 to 129.70): V

