

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY103119\  
 Data File : VY000509.D  
 Acq On : 31 Oct 2019 16:35  
 Operator : SY/MD  
 Sample : K5612-04RE  
 Misc : 7.26G/5ML/MSVOA Y/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Quant Time: Nov 01 05:52:20 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Oct 30 13:30:53 2019  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.80  | 168  | 203635   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.70  | 114  | 355041   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 313393   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 142729   | 50.00 | ug/l  | 0.00     |

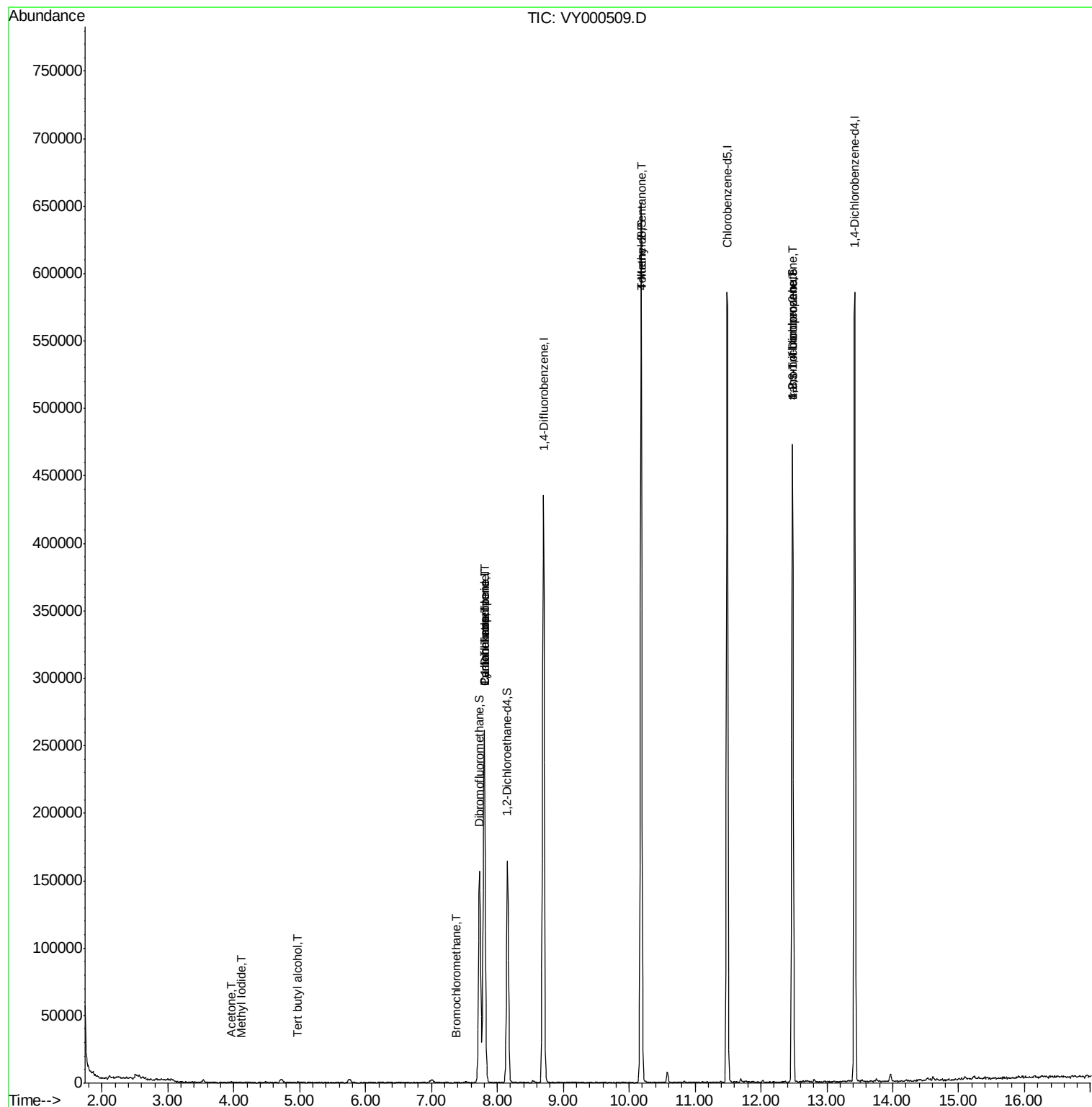
| System Monitoring Compounds | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.15  | 65   | 126107   | 59.84  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 119.68% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 105941   | 50.83  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 101.66% |          |
| 50) Toluene-d8              | 10.18 | 98   | 411940   | 52.09  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.18% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 137743   | 45.75  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 91.50%  |          |

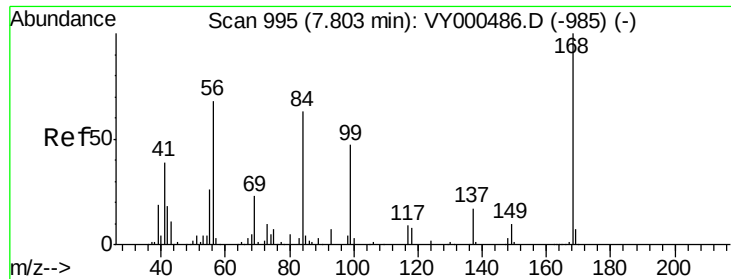
| Target Compounds               | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|--------------------------------|-------|------|----------|---------|--------|--------|
| 10) Methyl Iodide              | 4.11  | 142  | 59       | 3.219   | ug/l # | 41     |
| 11) Tert butyl alcohol         | 4.96  | 59   | 659      | 3.212   | ug/l # | 72     |
| 16) Acetone                    | 3.96  | 43   | 674      | 1.160   | ug/l # | 42     |
| 28) Bromochloromethane         | 7.38  | 49   | 50       | 4.118   | ug/l # | 14     |
| 31) Cyclohexane                | 7.80  | 56   | 4529     | 1.110   | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.80  | 75   | 15845    | 4.721   | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 20811    | 6.444   | ug/l # | 15     |
| 51) 4-Methyl-2-Pentanone       | 10.18 | 43   | 2065     | 1.038   | ug/l # | 1      |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 75019    | 46.161  | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 75019    | 103.499 | ug/l # | 13     |

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

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y103019S.M  
Quant Title : SW846 8260  
QLast Update : Wed Oct 30 13:30:53 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: VY000509.D

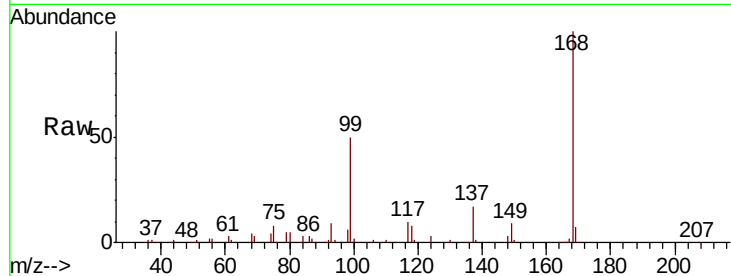
Acq: 31 Oct 2019 16:35

Tot Ion:168 Resp: 203635

Ion Ratio Lower Upper

168 100

99 50.2 45.7 68.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VY0

7.80

80000

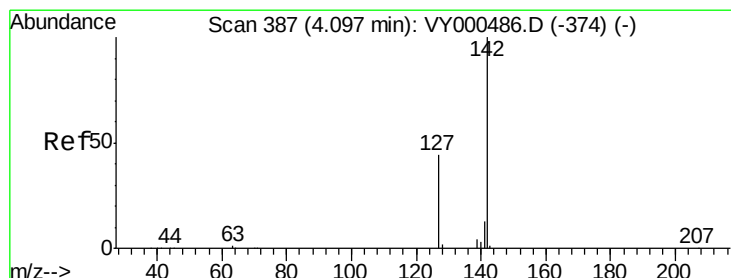
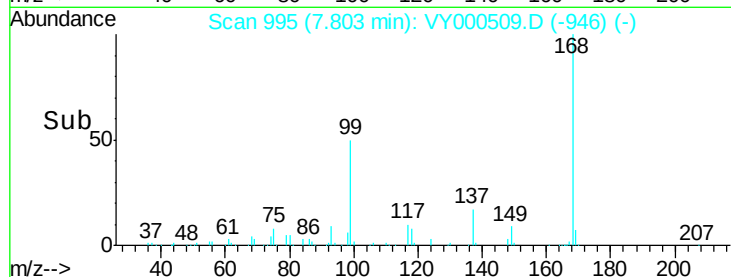
60000

40000

20000

0

Time--> 7.70 7.80 7.90



#10

Methyl Iodide

Concen: 3.219 ug/l

RT: 4.11 min Scan# 389

Delta R.T. 0.01 min

Lab File: VY000509.D

Acq: 31 Oct 2019 16:35

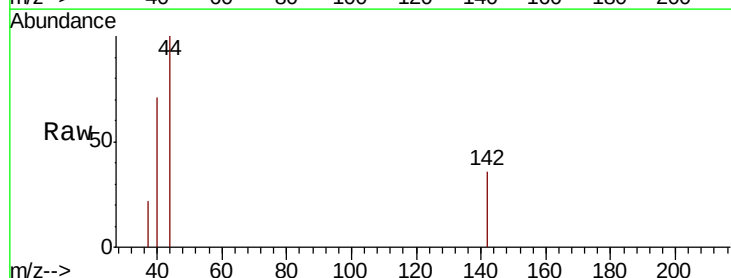
Tgt Ion:142 Resp: 59

Ion Ratio Lower Upper

142 100

127 0.0 33.7 50.5#

141 0.0 10.9 16.3#



Abundance Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V

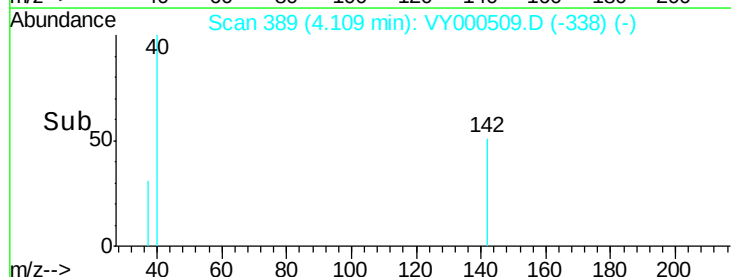
4.11

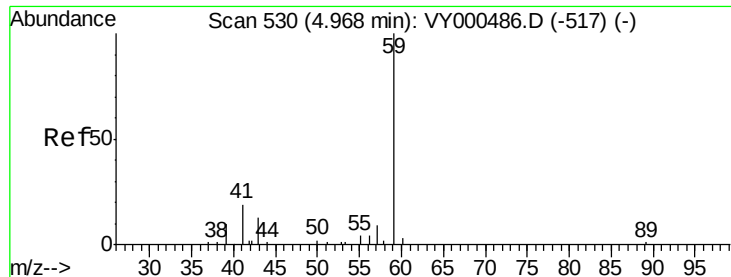
100

50

0

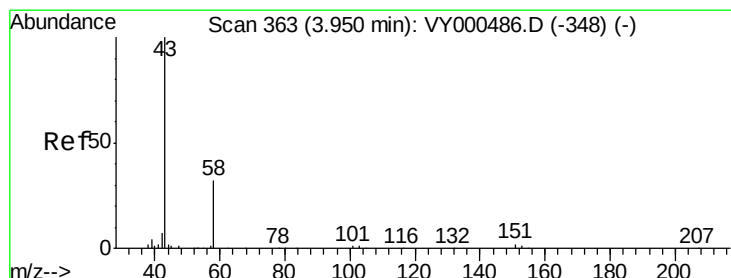
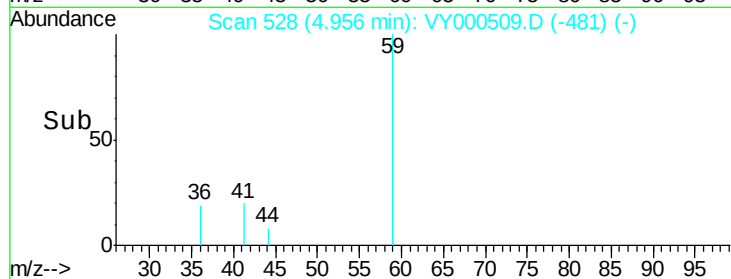
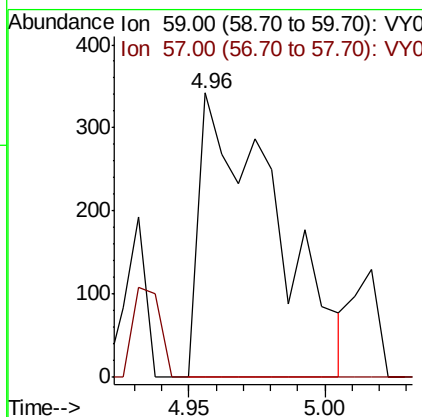
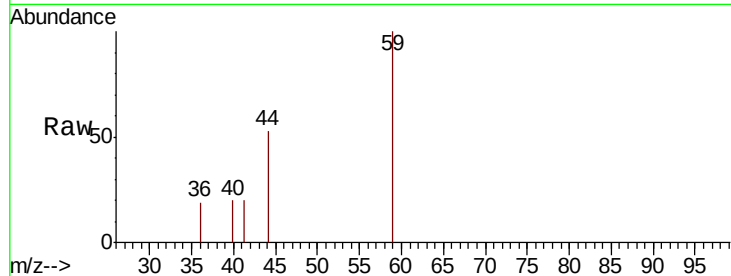
Time--> 4.08 4.09 4.10 4.11 4.12





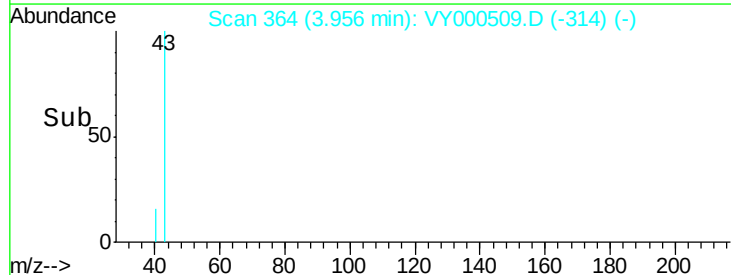
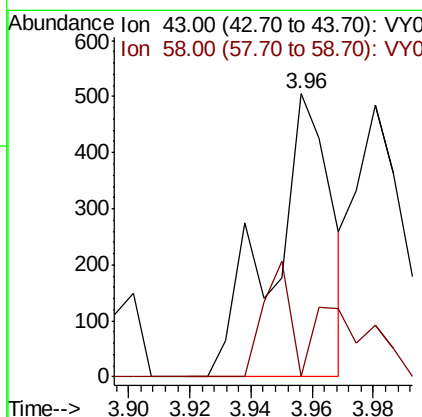
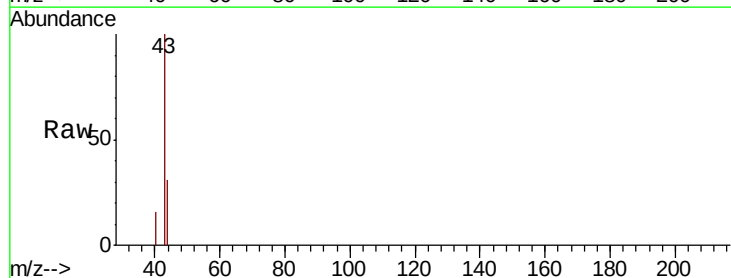
#11  
Tert butyl alcohol  
Concen: 3.212 ug/l  
RT: 4.96 min Scan# 528  
Delta R.T. -0.01 min  
Lab File: VY000509.D  
Acq: 31 Oct 2019 16:35

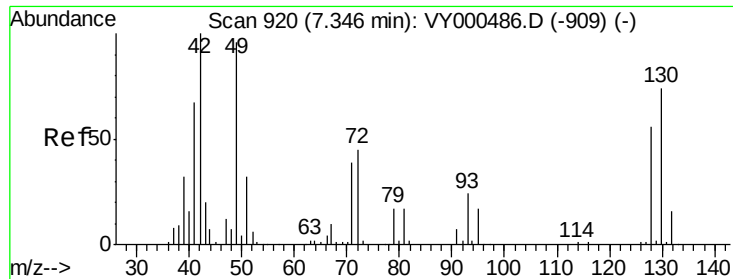
Tot Ion: 59 Resp: 659  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.6 12.8#



#16  
Acetone  
Concen: 1.160 ug/l  
RT: 3.96 min Scan# 364  
Delta R.T. 0.01 min  
Lab File: VY000509.D  
Acq: 31 Oct 2019 16:35

Tgt Ion: 43 Resp: 674  
Ion Ratio Lower Upper  
43 100  
58 0.0 25.8 38.6#





#28

Bromochloromethane

Concen: 4.118 ug/l

RT: 7.38 min Scan# 926

Delta R.T. 0.04 min

Lab File: VY000509.D

Acq: 31 Oct 2019 16:35

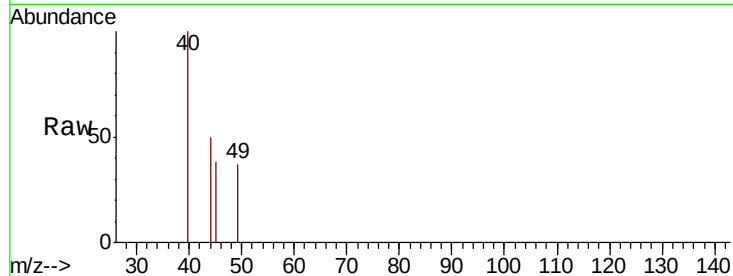
Tot Ion: 49 Resp: 50

Ion Ratio Lower Upper

49 100

129 0.0 0.0 3.6

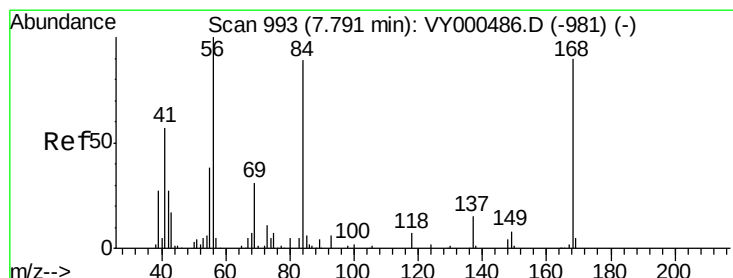
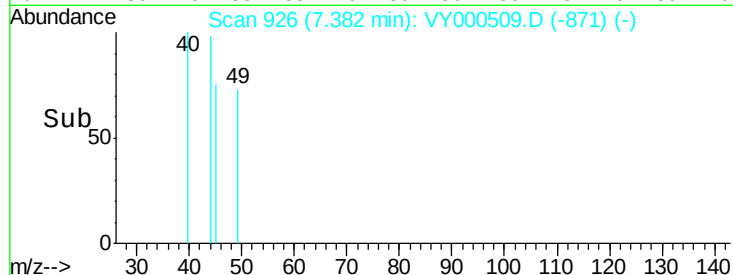
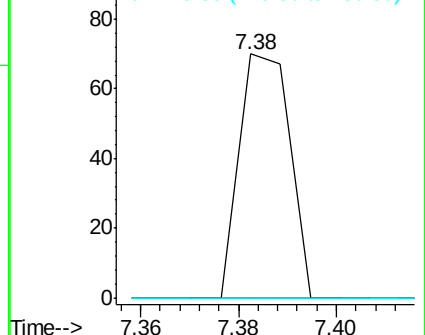
130 0.0 59.4 89.0#



Abundance Ion 48.90 (48.60 to 49.60): VY0

Ion 128.80 (128.50 to 129.50): VY0

Ion 129.80 (129.50 to 130.50): VY0



#31

Cyclohexane

Concen: 1.110 ug/l

RT: 7.80 min Scan# 994

Delta R.T. 0.01 min

Lab File: VY000509.D

Acq: 31 Oct 2019 16:35

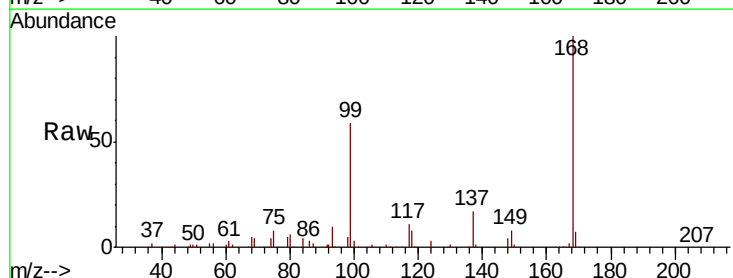
Tgt Ion: 56 Resp: 4529

Ion Ratio Lower Upper

56 100

69 189.0 25.0 37.6#

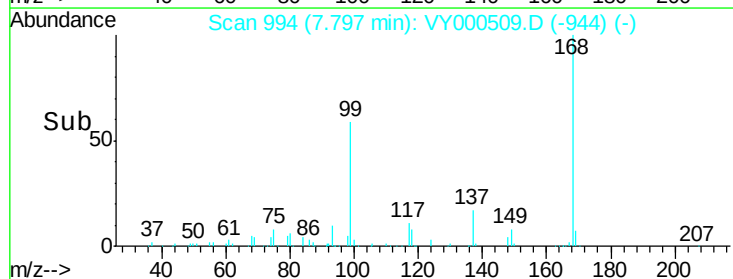
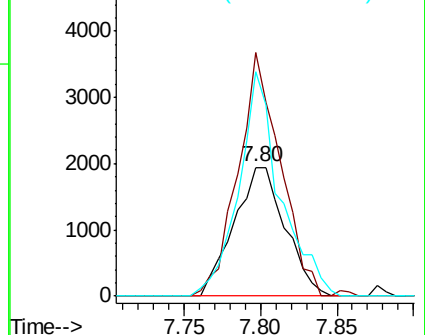
84 174.6 71.4 107.2#

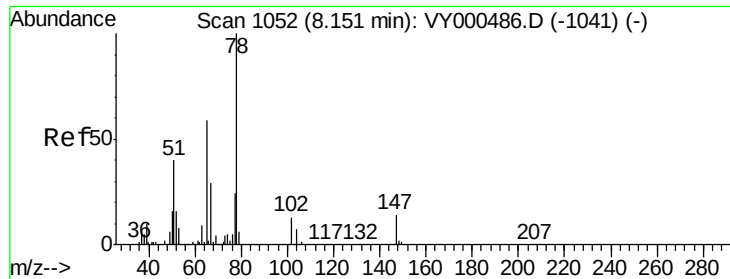


Abundance Ion 56.00 (55.70 to 56.70): VY0

Ion 69.00 (68.70 to 69.70): VY0

Ion 84.00 (83.70 to 84.70): VY0





#33

1,2-Dichloroethane-d4

Concen: 59.841 ug/l

RT: 8.15 min Scan# 1052

Delta R.T. -0.00 min

Lab File: VY000509.D

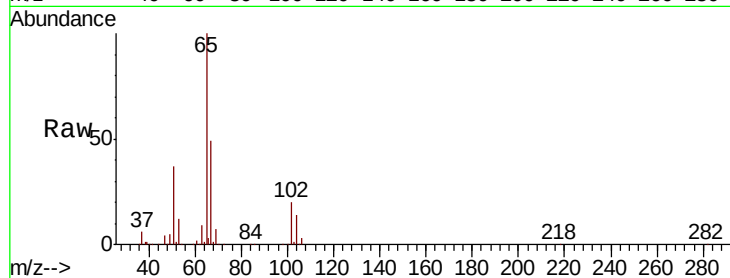
Acq: 31 Oct 2019 16:35

Tot Ion: 65 Resp: 126107

Ion Ratio Lower Upper

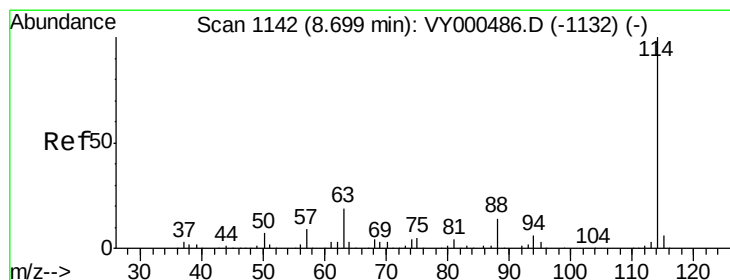
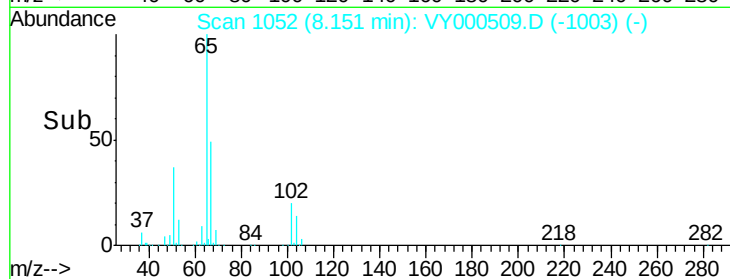
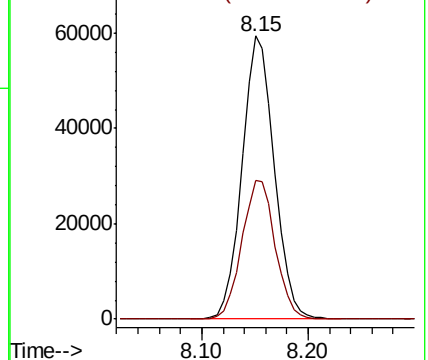
65 100

67 50.7 0.0 107.2



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: VY000509.D

Acq: 31 Oct 2019 16:35

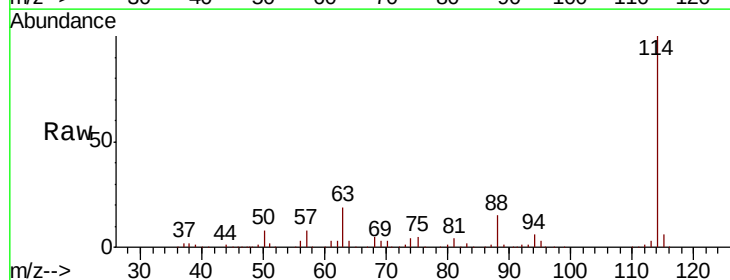
Tgt Ion: 114 Resp: 355041

Ion Ratio Lower Upper

114 100

63 19.0 0.0 38.0

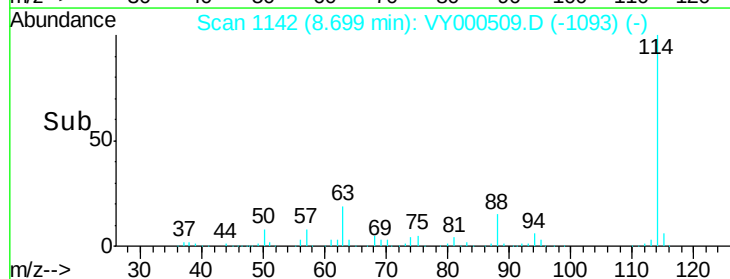
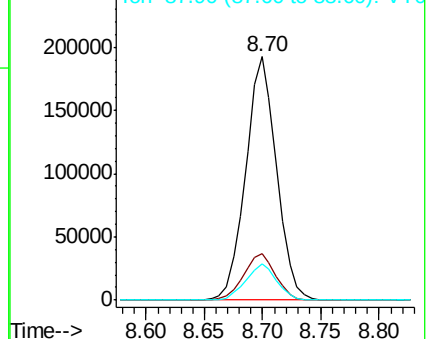
88 14.8 0.0 28.6

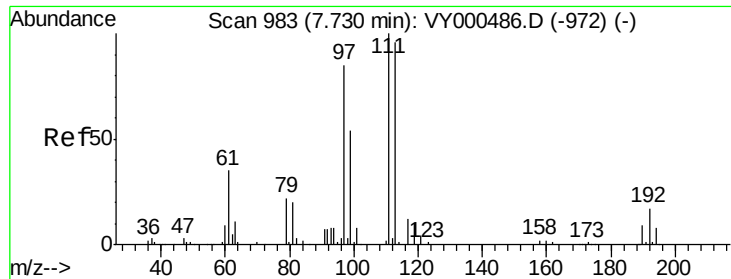


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VY0

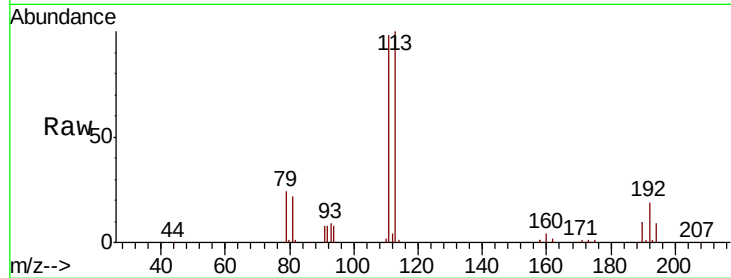
Ion 87.90 (87.60 to 88.60): VY0





#35  
 Dibromofluoromethane  
 Concen: 50.828 ug/l  
 RT: 7.73 min Scan# 983  
 Delta R.T. -0.00 min  
 Lab File: VY000509.D  
 Acq: 31 Oct 2019 16:35

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 101.4 | 81.7  | 122.5 |
| 192     | 19.8  | 15.0  | 22.4  |

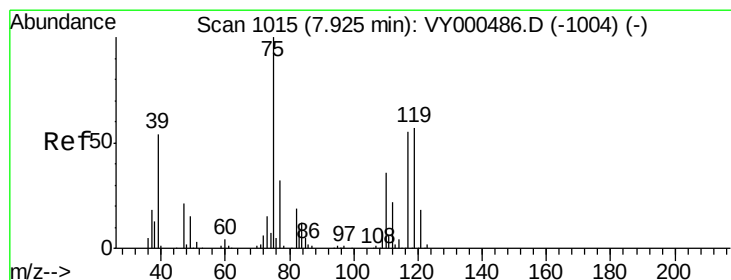
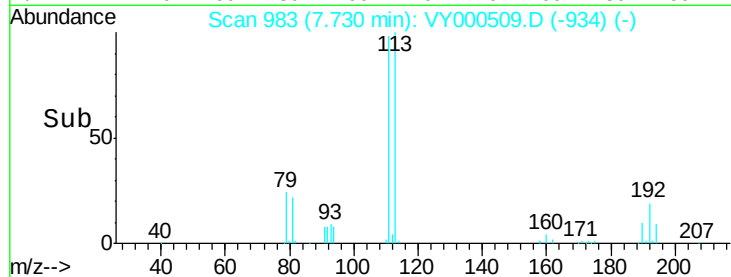
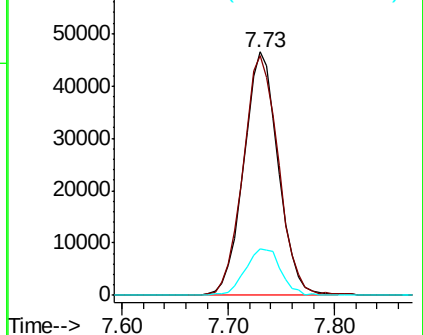


Abundance

Ion 112.80 (112.50 to 113.50): V

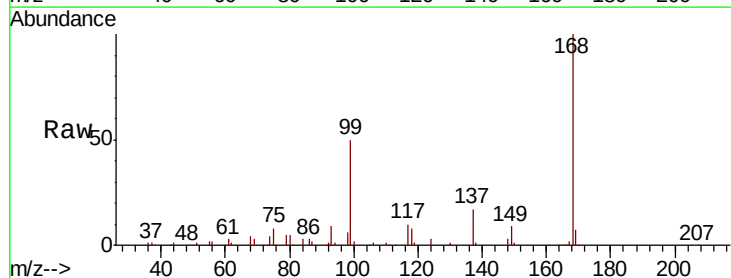
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36  
 1,1-Dichloropropene  
 Concen: 4.721 ug/l  
 RT: 7.80 min Scan# 995  
 Delta R.T. -0.12 min  
 Lab File: VY000509.D  
 Acq: 31 Oct 2019 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 75      | 100   |       |       |
| 110     | 8.9   | 18.1  | 54.1# |
| 77      | 0.0   | 25.0  | 37.6# |

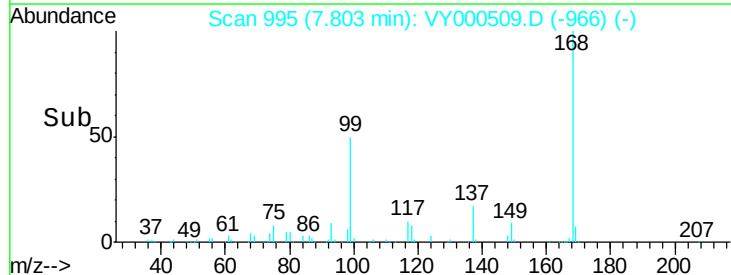
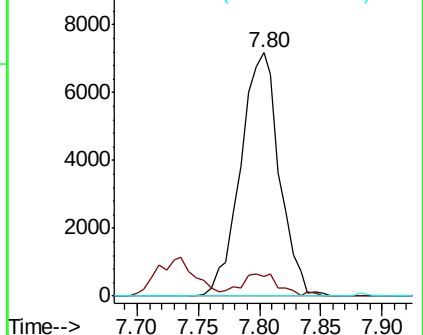


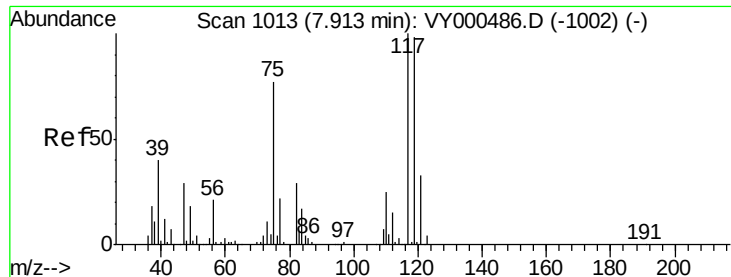
Abundance

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





#38

Carbon Tetrachloride

Concen: 6.444 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.11 min

Lab File: VY000509.D

Acq: 31 Oct 2019 16:35

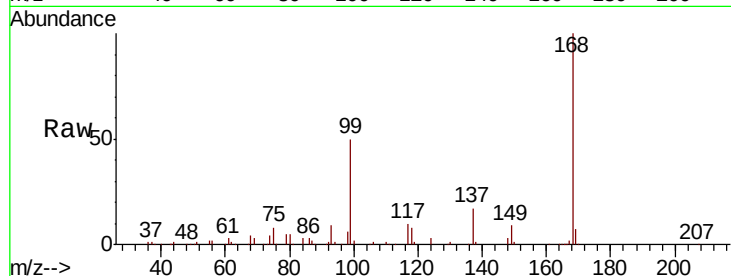
Tot Ion:117 Resp: 20811

Ion Ratio Lower Upper

117 100

119 4.8 78.0 117.0#

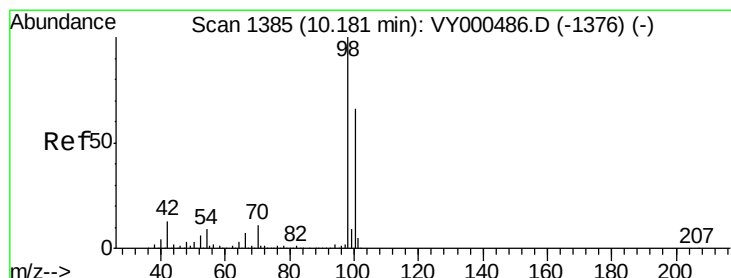
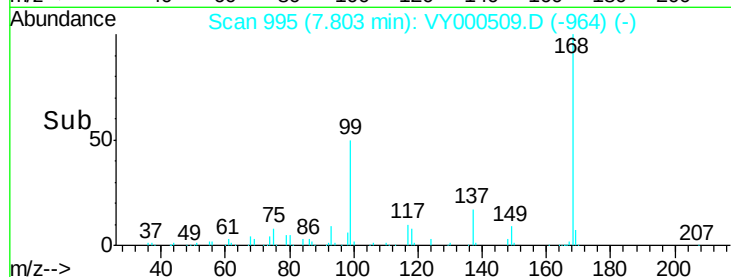
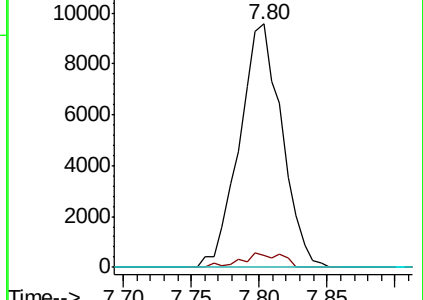
121 0.0 26.6 40.0#



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: 52.086 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY000509.D

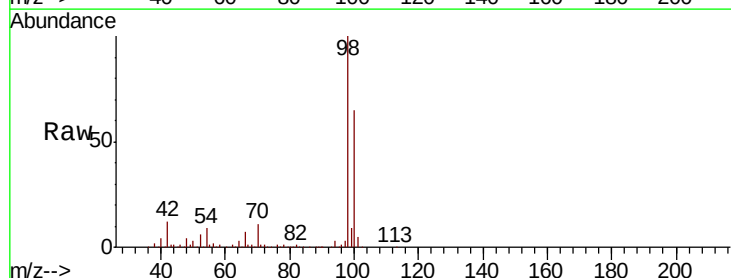
Acq: 31 Oct 2019 16:35

Tgt Ion: 98 Resp: 411940

Ion Ratio Lower Upper

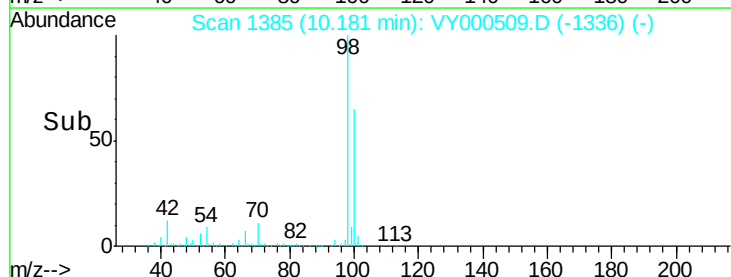
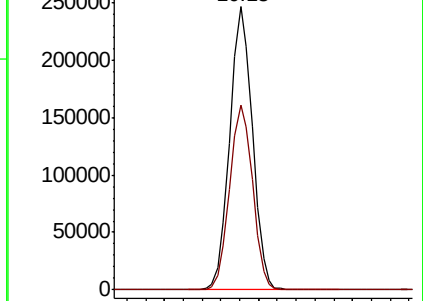
98 100

100 66.2 52.9 79.3

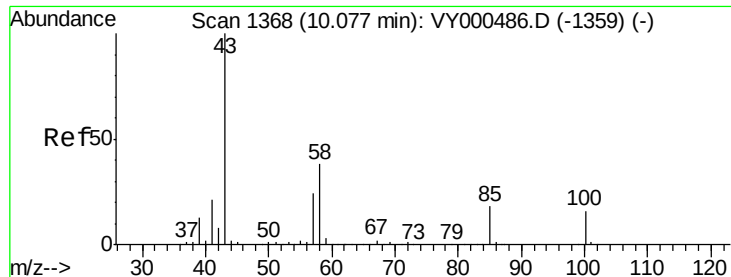


Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0

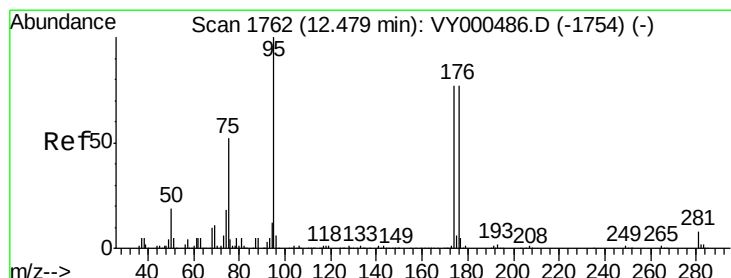
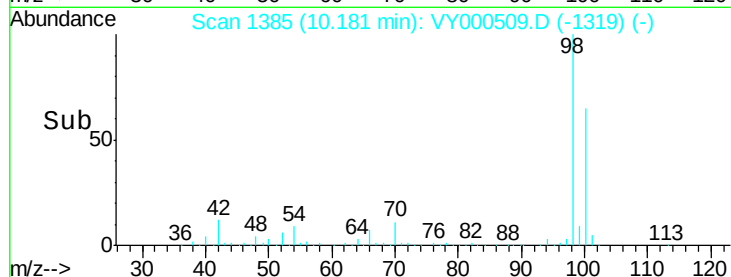
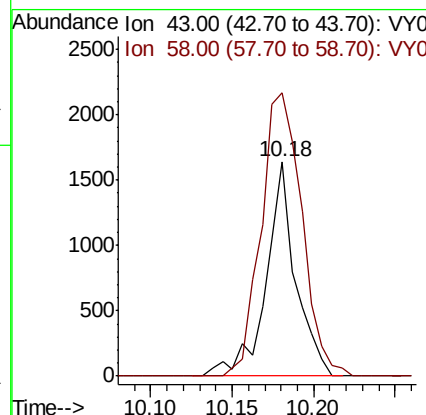
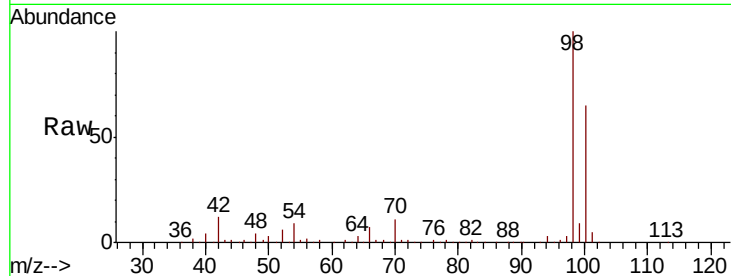






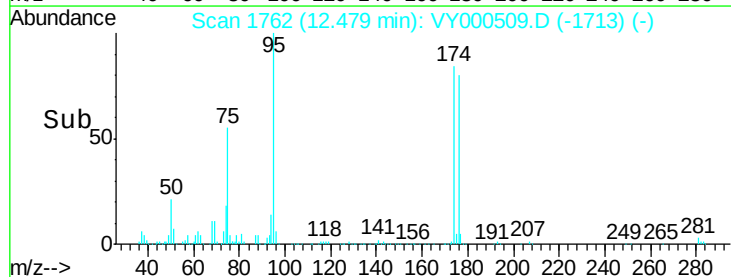
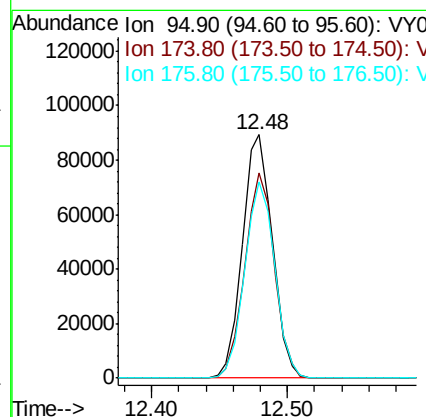
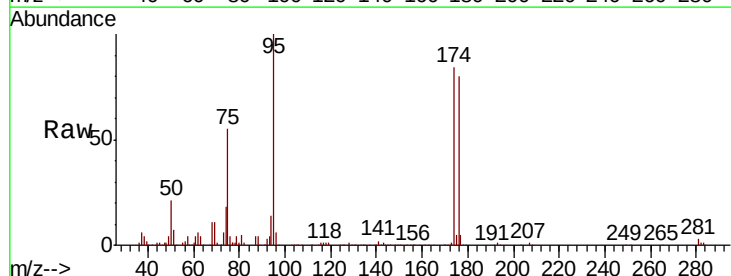
#51  
4-Methyl-2-Pentanone  
Concen: 1.038 ug/l  
RT: 10.18 min Scan# 1385  
Delta R.T. 0.10 min  
Lab File: VY000509.D  
Acq: 31 Oct 2019 16:35

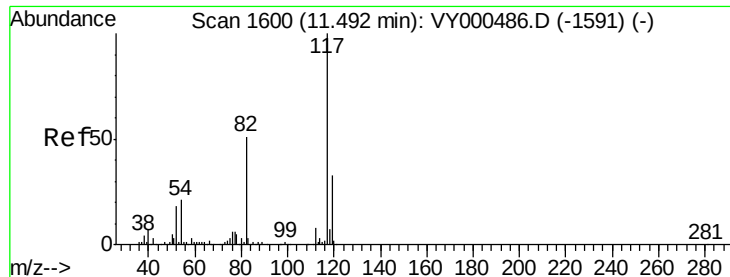
Tot Ion: 43 Resp: 2065  
Ion Ratio Lower Upper  
43 100  
58 182.5 30.2 45.4#



#62  
4-Bromofluorobenzene  
Concen: 45.749 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.00 min  
Lab File: VY000509.D  
Acq: 31 Oct 2019 16:35

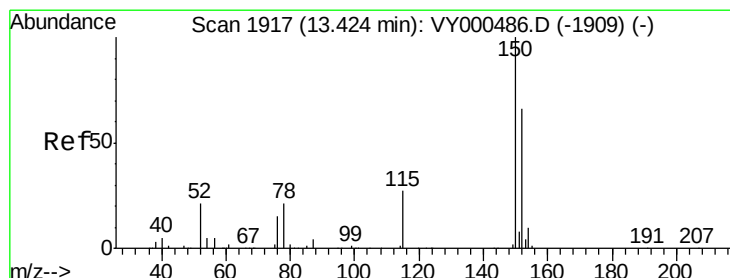
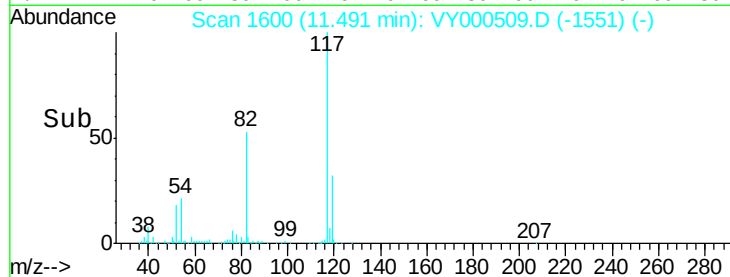
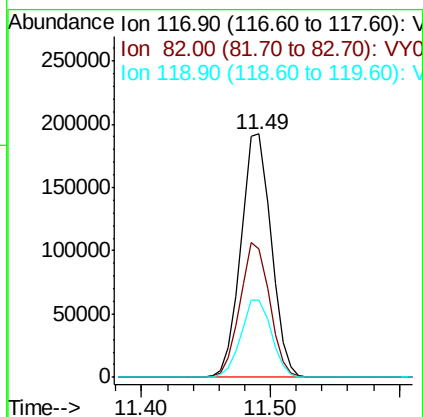
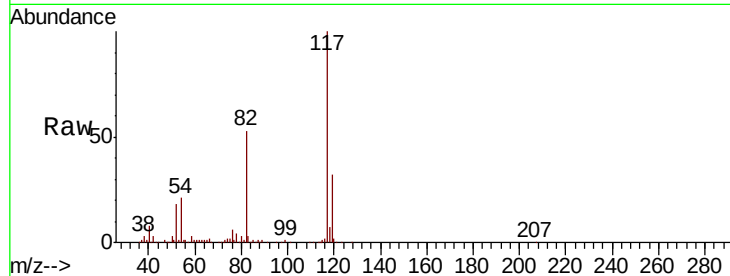
Tgt Ion: 95 Resp: 137743  
Ion Ratio Lower Upper  
95 100  
174 83.1 0.0 161.6  
176 80.7 0.0 157.8





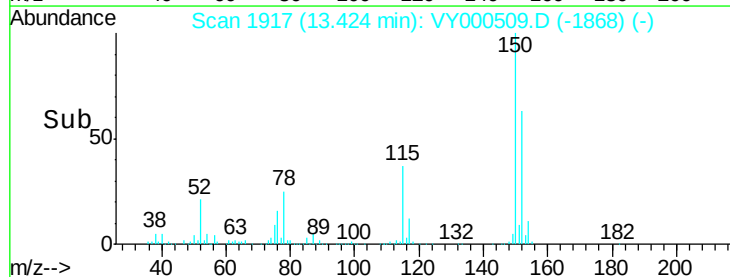
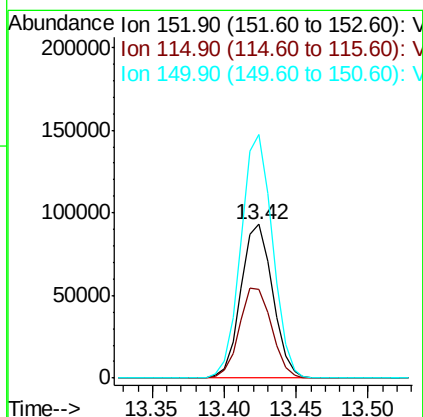
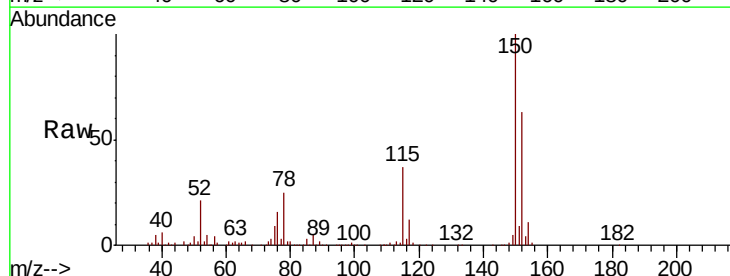
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY000509.D  
Acq: 31 Oct 2019 16:35

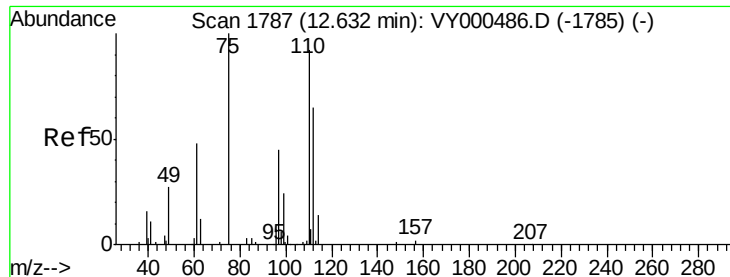
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 52.7  | 40.8  | 61.2  |
| 119     | 31.8  | 26.2  | 39.2  |



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY000509.D  
Acq: 31 Oct 2019 16:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 115     | 59.8  | 29.1  | 87.4  |
| 150     | 156.9 | 0.0   | 348.8 |

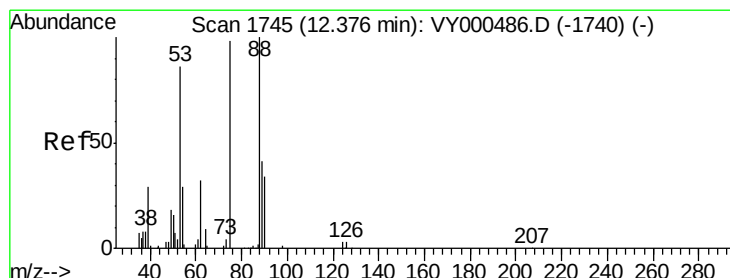
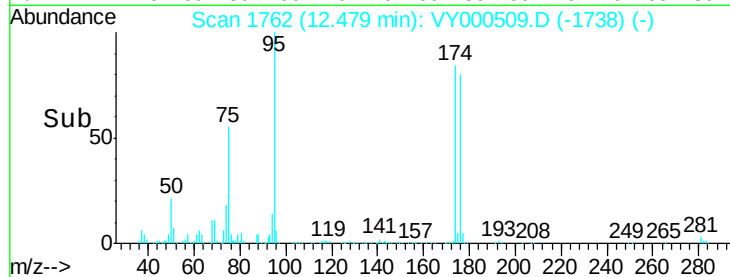
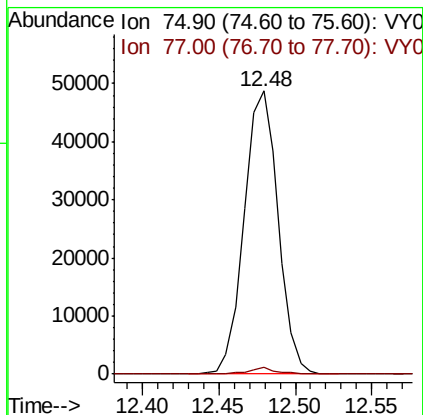
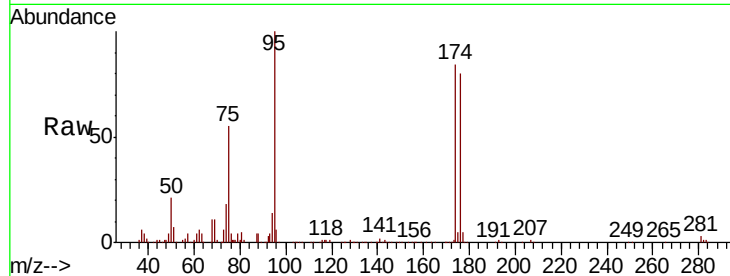




#76

1,2,3-Trichloropropane  
Concen: 46.161 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.15 min  
Lab File: VY000509.D  
Acq: 31 Oct 2019 16:35

Tot Ion: 75 Resp: 75019  
Ion Ratio Lower Upper  
75 100  
77 1.8 0.0 0.0#



#81

trans-1,4-Dichloro-2-butene  
Concen: 103.499 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. 0.10 min  
Lab File: VY000509.D  
Acq: 31 Oct 2019 16:35

Tgt Ion: 75 Resp: 75019  
Ion Ratio Lower Upper  
75 100  
53 0.0 73.2 109.8#  
89 0.1 35.9 53.9#

