

Data Path : Z:\VOASRV\HPCHEM1\MSVOA\_Y\DATA\VY121719\  
 Data File : VY000986.D  
 Acq On : 17 Dec 2019 18:03  
 Operator : SY/MD  
 Sample : K6357-16  
 Misc : 5.18G/5ML/MSVOA\_Y/SOIL  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 PF-K

Quant Time: Dec 18 05:52:52 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  | 167764   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 313922   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 281632   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 125922   | 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   | 95319    | 53.47  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 106.94% |          |
| 35) Dibromofluoromethane    | 7.73  | 113  | 88254    | 48.24  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 96.48%  |          |
| 50) Toluene-d8              | 10.18 | 98   | 367457   | 50.24  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 100.48% |          |
| 62) 4-Bromofluorobenzene    | 12.48 | 95   | 118157   | 43.01  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 86.02%  |          |

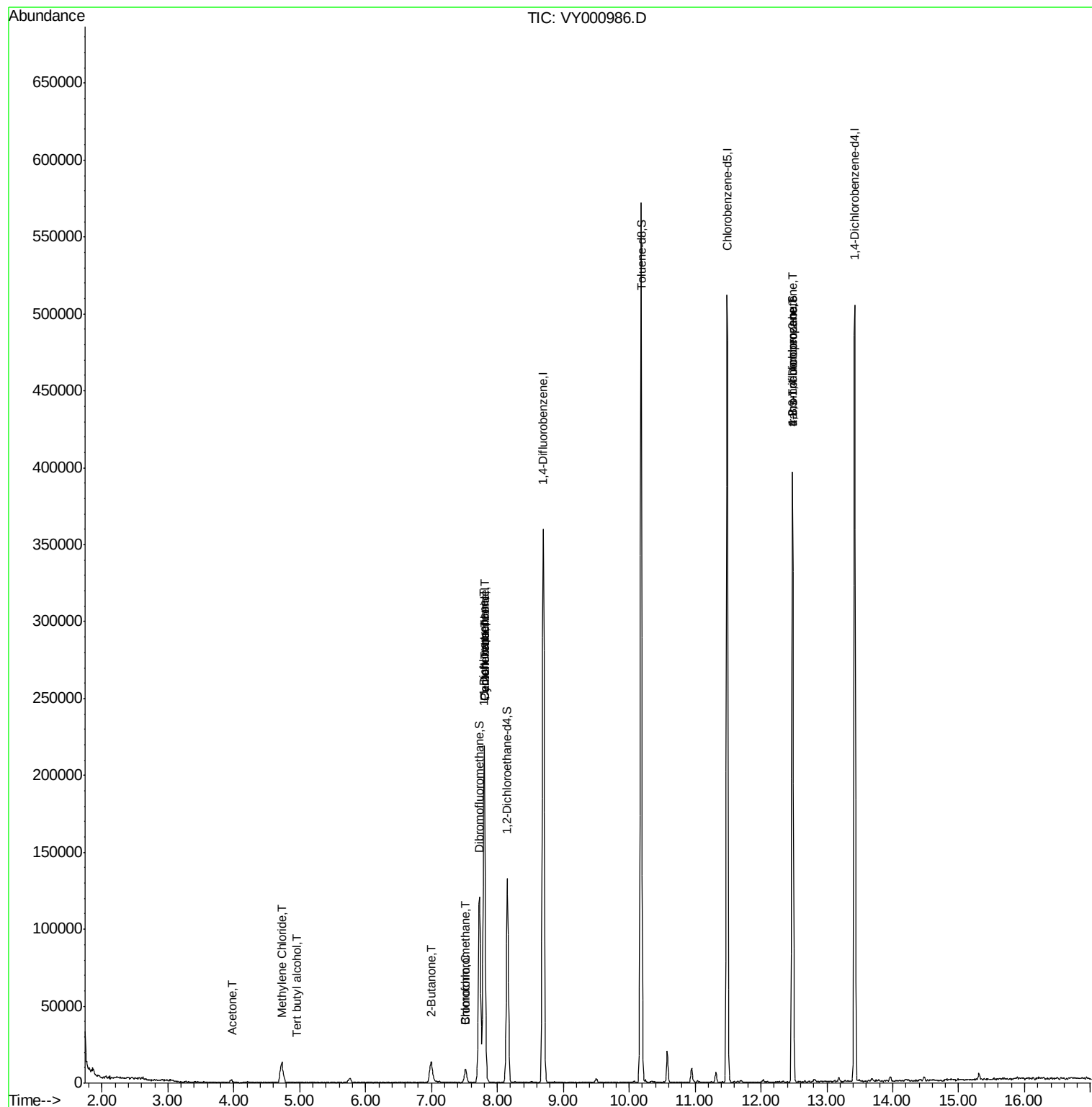
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.65  | 94   | 89       | Below Cal | #      | 3      |
| 11) Tert butyl alcohol         | 4.96  | 59   | 382      | 2.130     | ug/l # | 74     |
| 16) Acetone                    | 3.97  | 43   | 2477     | 6.057     | ug/l   | 88     |
| 20) Methylene Chloride         | 4.72  | 84   | 9865     | 4.577     | ug/l   | 93     |
| 25) 2-Butanone                 | 6.99  | 43   | 873      | 1.156     | ug/l # | 49     |
| 28) Bromochloromethane         | 7.52  | 49   | 755      | 2.569     | ug/l # | 15     |
| 30) Chloroform                 | 7.52  | 83   | 8825     | 2.462     | ug/l   | 97     |
| 31) Cyclohexane                | 7.80  | 56   | 3989     | 1.054     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.79  | 75   | 13568    | 4.347     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.80  | 117  | 16647    | 5.989     | ug/l # | 14     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75   | 61642    | 43.206    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75   | 61642    | 84.870    | ug/l # | 17     |

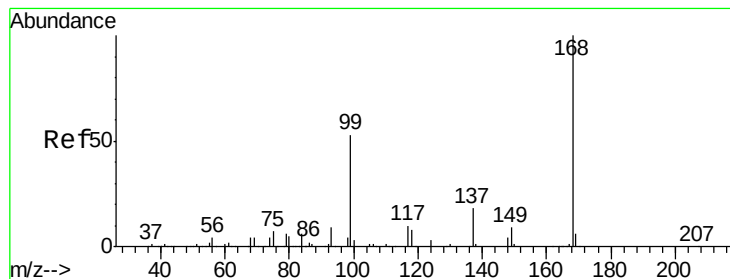
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ALS Vial : 18 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
PF-K

Quant Time: Dec 18 05:52:52 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: VY000986.D

Acq: 17 Dec 2019 18:03

Instrument :

MSVOA\_Y

ClientSampled :

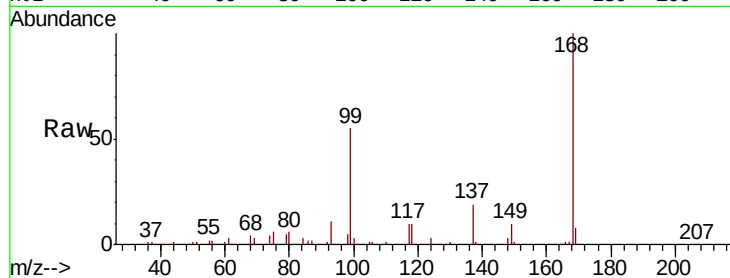
PF-K

Tgt Ion: 168 Resp: 167764

Ion Ratio Lower Upper

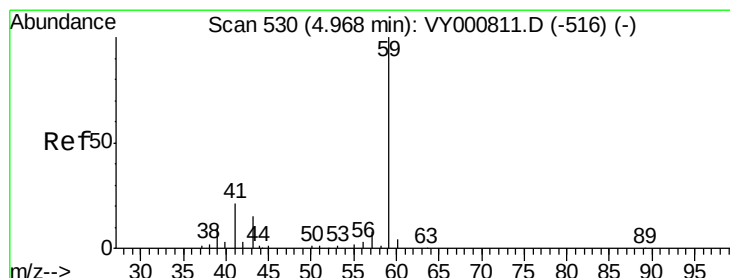
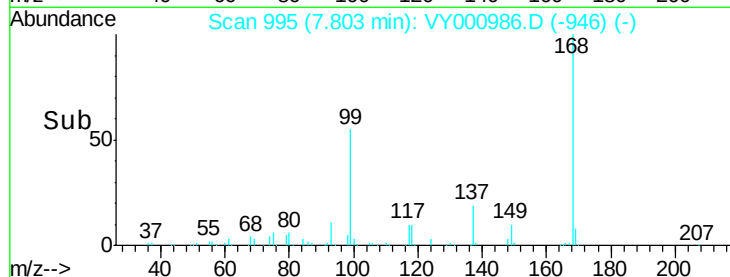
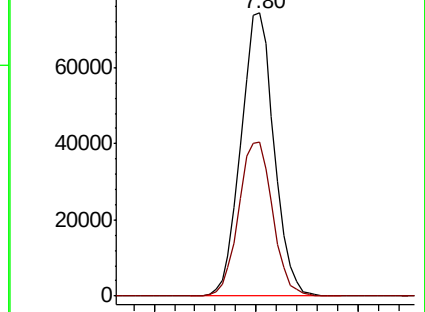
168 100

99 54.6 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): VY000986.D (-946) (-)

Ion 98.90 (98.60 to 99.60): VY000986.D (-946) (-)



#11

Tert butyl alcohol

Concen: 2.130 ug/l

RT: 4.96 min Scan# 528

Delta R.T. -0.01 min

Lab File: VY000986.D

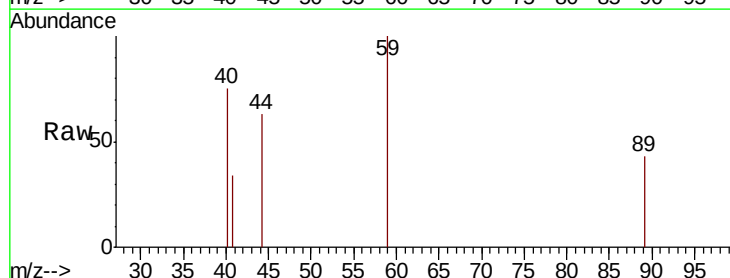
Acq: 17 Dec 2019 18:03

Tgt Ion: 59 Resp: 382

Ion Ratio Lower Upper

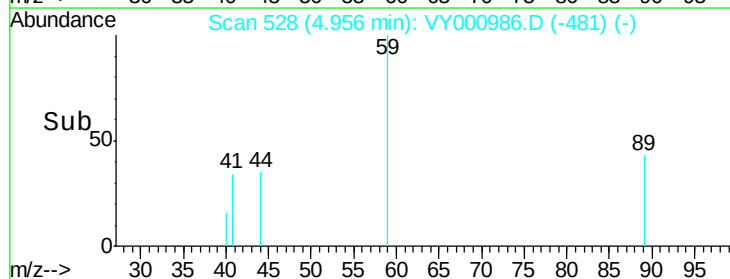
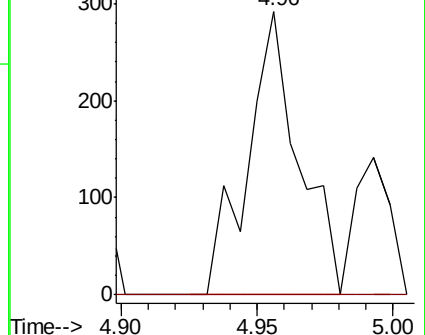
59 100

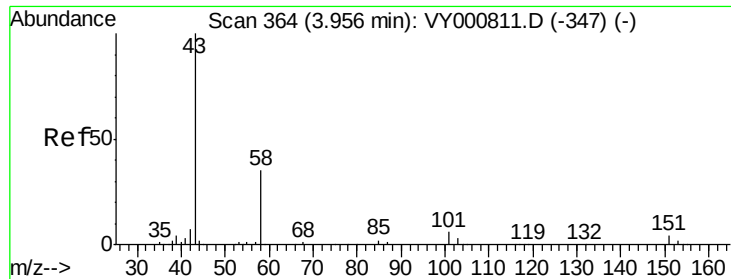
57 0.0 7.8 11.6#



Abundance Ion 59.00 (58.70 to 59.70): VY000986.D (-481) (-)

Ion 57.00 (56.70 to 57.70): VY000986.D (-481) (-)





#16

Acetone

Concen: 6.057 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.01 min

Lab File: VY000986.D

Acq: 17 Dec 2019 18:03

Instrument :

MSVOA\_Y

ClientSampled :

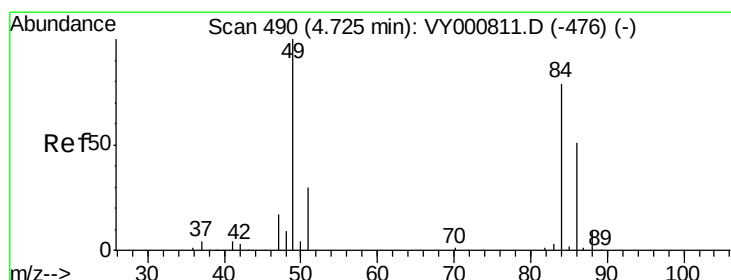
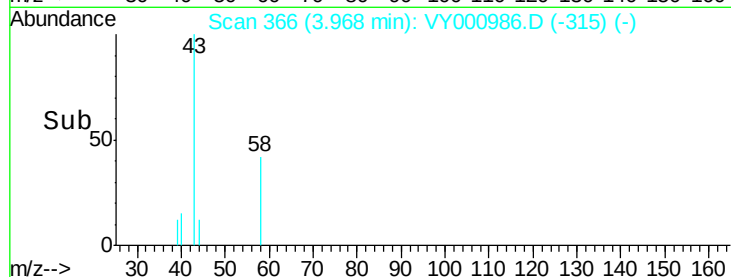
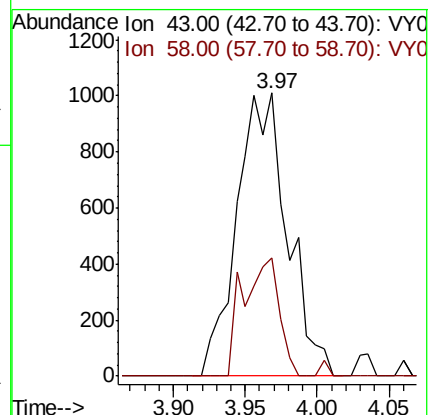
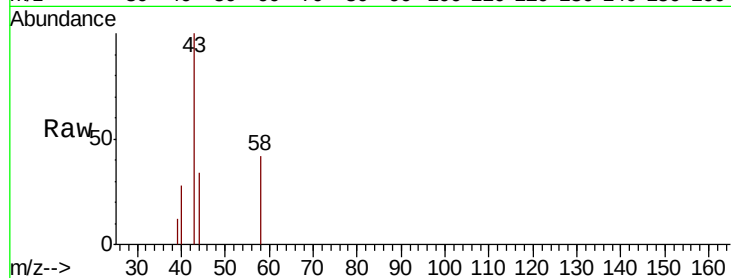
PF-K

Tgt Ion: 43 Resp: 2477

Ion Ratio Lower Upper

43 100

58 41.9 28.0 42.0



#20

Methylene Chloride

Concen: 4.577 ug/l

RT: 4.72 min Scan# 490

Delta R.T. -0.00 min

Lab File: VY000986.D

Acq: 17 Dec 2019 18:03

Tgt Ion: 84 Resp: 9865

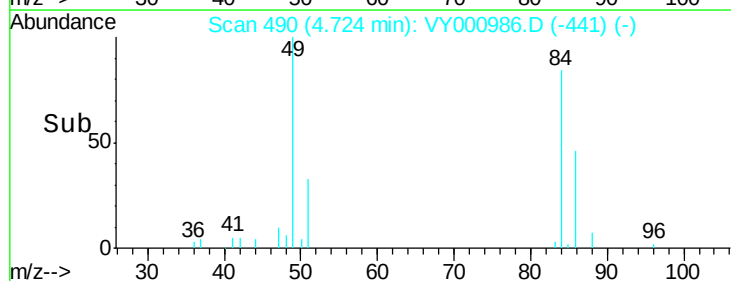
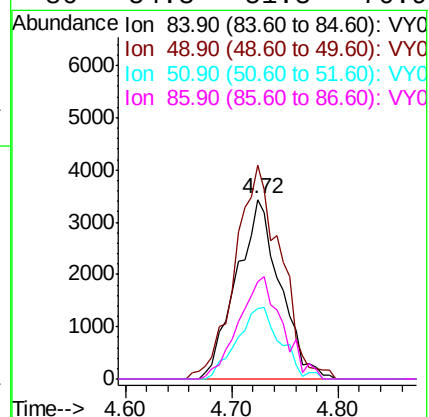
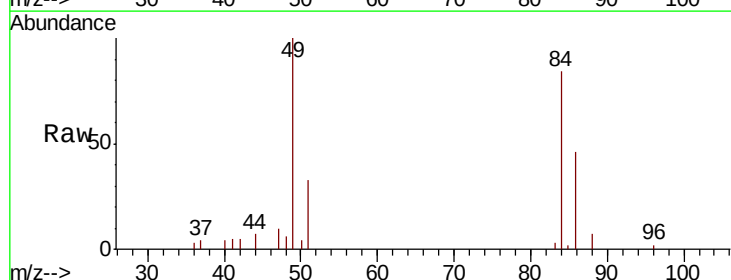
Ion Ratio Lower Upper

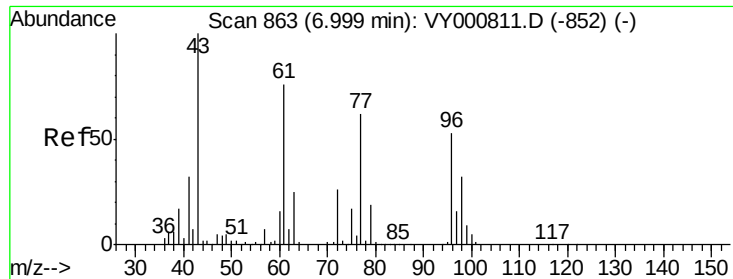
84 100

49 118.8 101.3 151.9

51 38.9 30.6 45.8

86 54.3 51.3 76.9

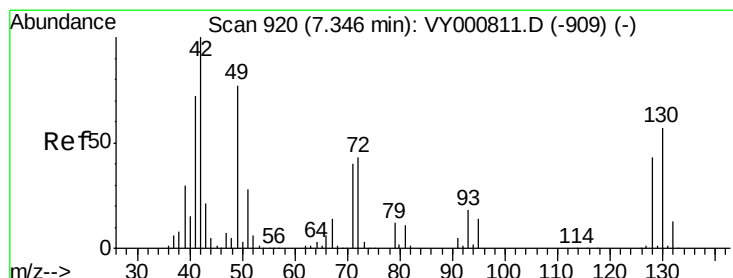
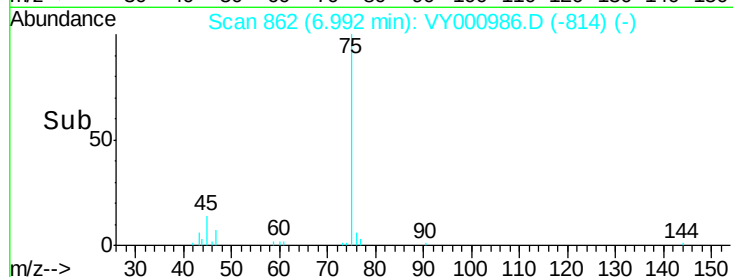
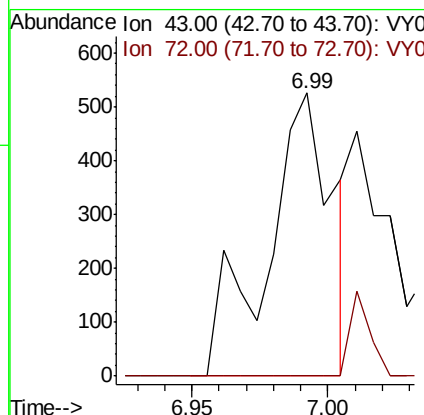
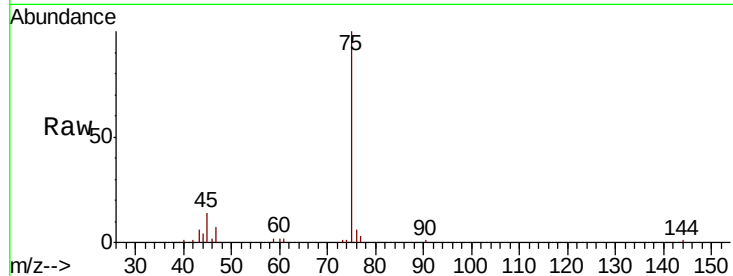




#25  
 2-Butanone  
 Concen: 1.156 ug/l  
 RT: 6.99 min Scan# 862  
 Delta R.T. -0.01 min  
 Lab File: VY000986.D  
 Acq: 17 Dec 2019 18:03

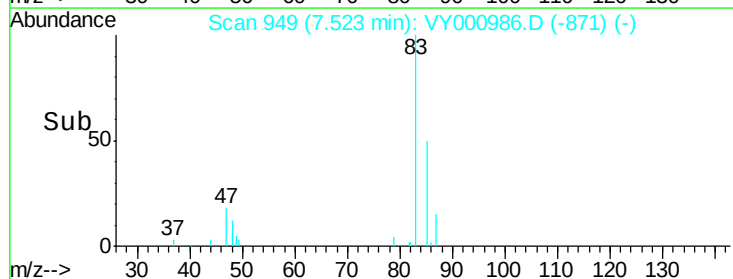
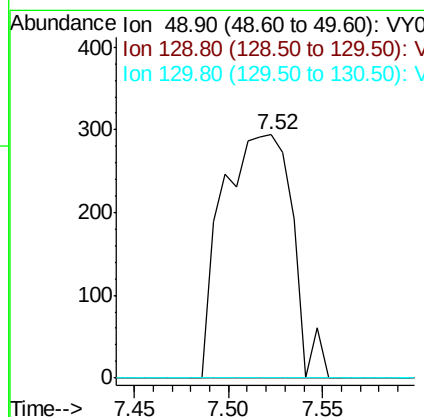
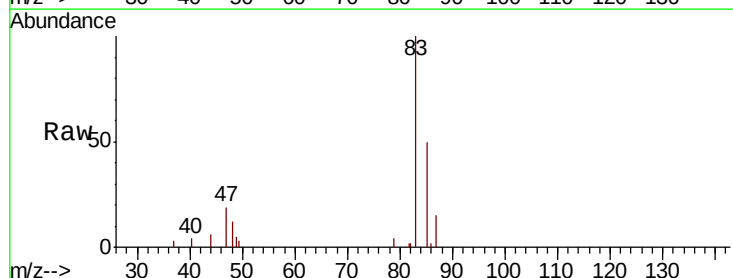
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 PF-K

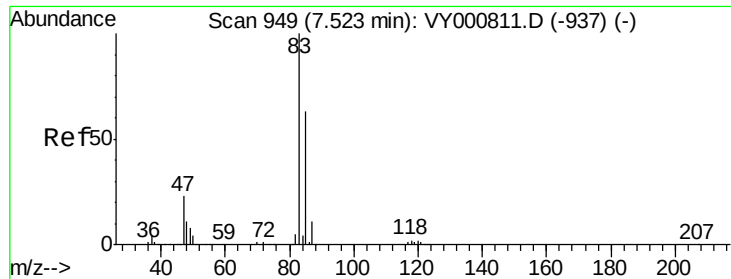
Tgt Ion: 43 Resp: 873  
 Ion Ratio Lower Upper  
 43 100  
 72 0.0 21.0 31.4#



#28  
 Bromochloromethane  
 Concen: 2.569 ug/l  
 RT: 7.52 min Scan# 949  
 Delta R.T. 0.18 min  
 Lab File: VY000986.D  
 Acq: 17 Dec 2019 18:03

Tgt Ion: 49 Resp: 755  
 Ion Ratio Lower Upper  
 49 100  
 129 0.0 0.0 3.8  
 130 0.0 58.7 88.1#

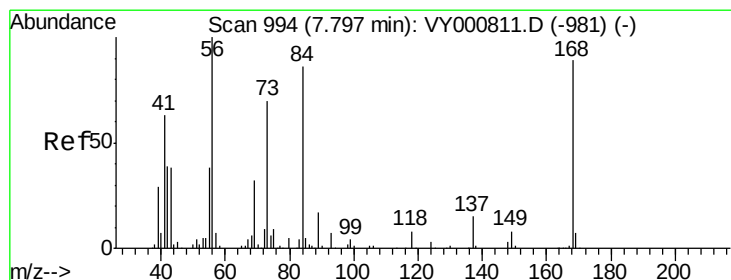
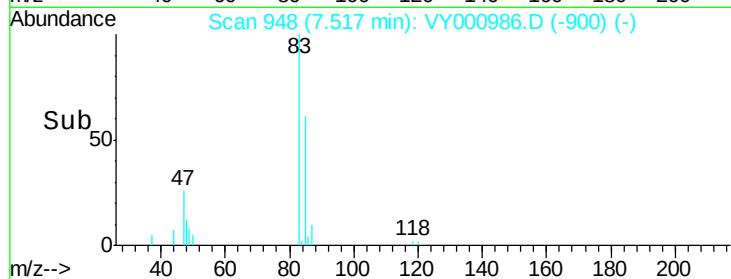
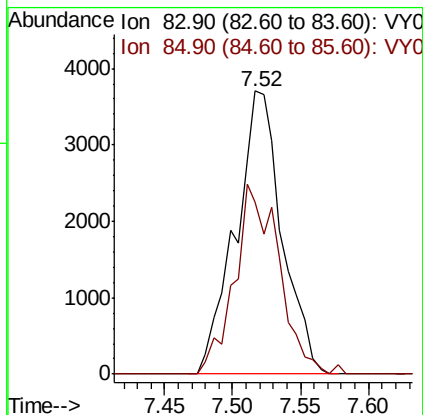
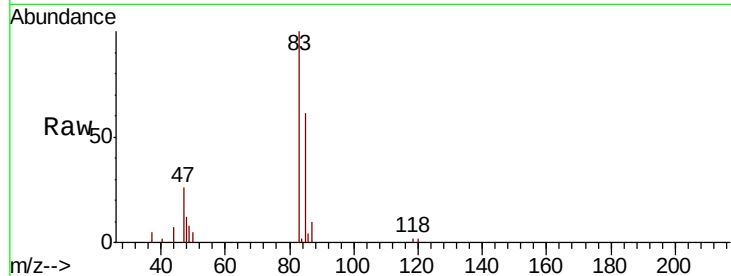




#30  
Chloroform  
Concen: 2.462 ug/l  
RT: 7.52 min Scan# 948  
Delta R.T. -0.01 min  
Lab File: VY000986.D  
Acq: 17 Dec 2019 18:03

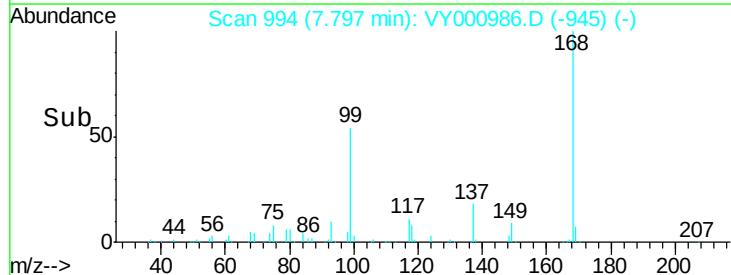
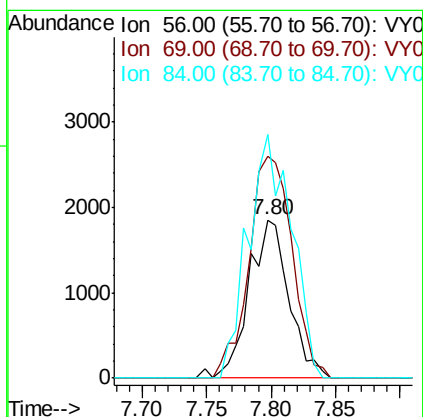
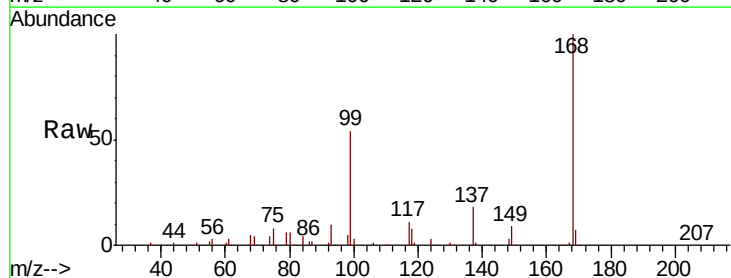
Instrument :  
MSVOA\_Y  
ClientSampleId :  
PF-K

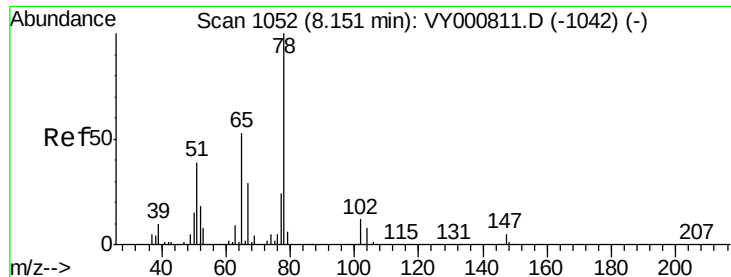
Tgt Ion: 83 Resp: 8825  
Ion Ratio Lower Upper  
83 100  
85 60.8 50.4 75.6



#31  
Cyclohexane  
Concen: 1.054 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.00 min  
Lab File: VY000986.D  
Acq: 17 Dec 2019 18:03

Tgt Ion: 56 Resp: 3989  
Ion Ratio Lower Upper  
56 100  
69 139.9 25.9 38.9#  
84 153.9 68.6 102.8#

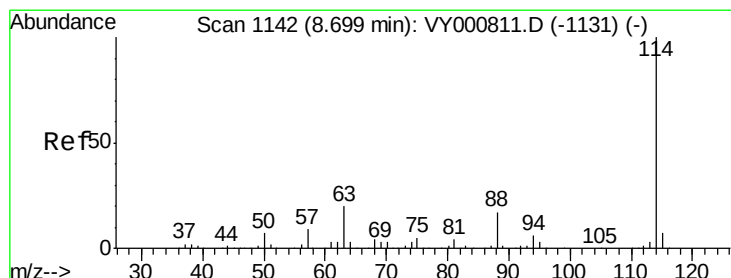
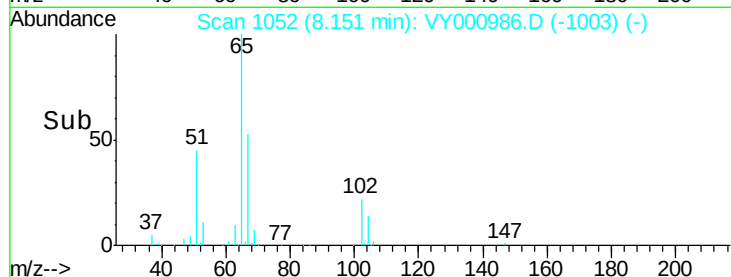
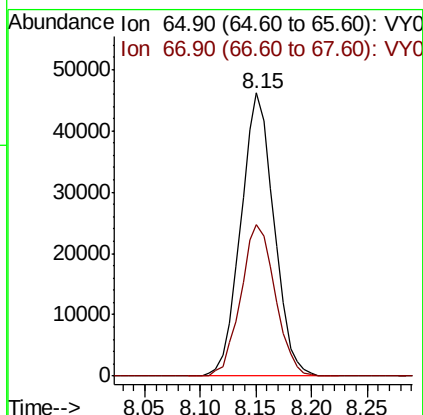
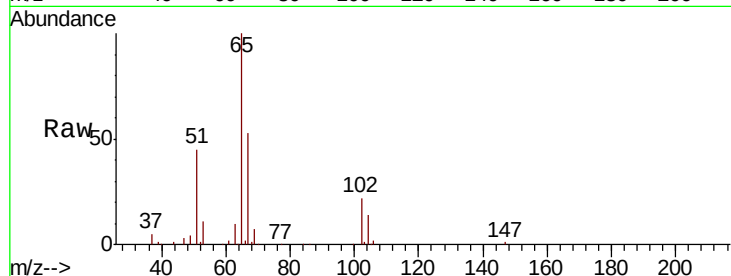




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.471 ug/l  
 RT: 8.15 min Scan# 1052  
 Delta R.T. -0.00 min  
 Lab File: VY000986.D  
 Acq: 17 Dec 2019 18:03

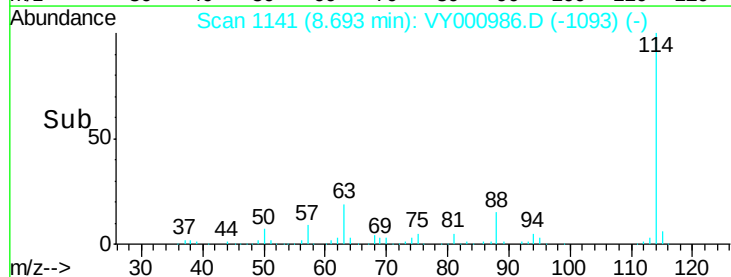
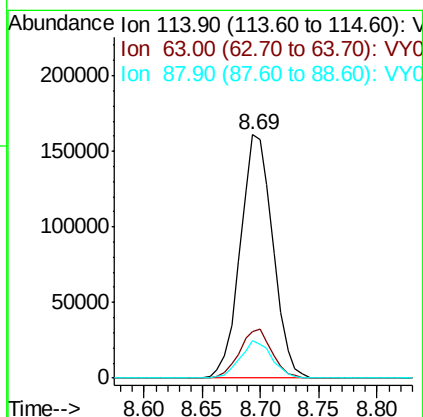
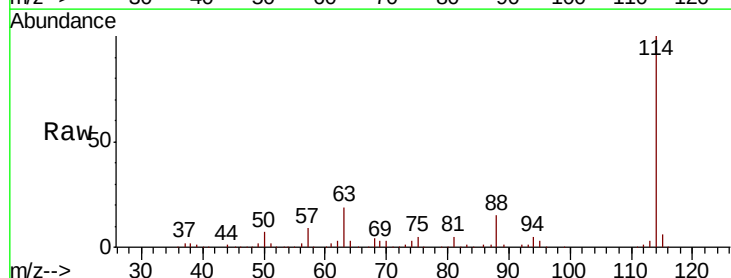
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 PF-K

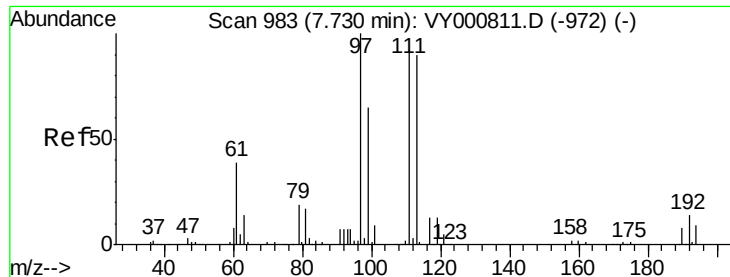
Tgt Ion: 65 Resp: 95319  
 Ion Ratio Lower Upper  
 65 100  
 67 55.5 0.0 112.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. -0.01 min  
 Lab File: VY000986.D  
 Acq: 17 Dec 2019 18:03

Tgt Ion: 114 Resp: 313922  
 Ion Ratio Lower Upper  
 114 100  
 63 19.4 0.0 39.8  
 88 15.4 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.238 ug/l

RT: 7.73 min Scan# 983

Delta R.T. -0.00 min

Lab File: VY000986.D

Acq: 17 Dec 2019 18:03

Instrument :

MSVOA\_Y

ClientSampleId :

PF-K

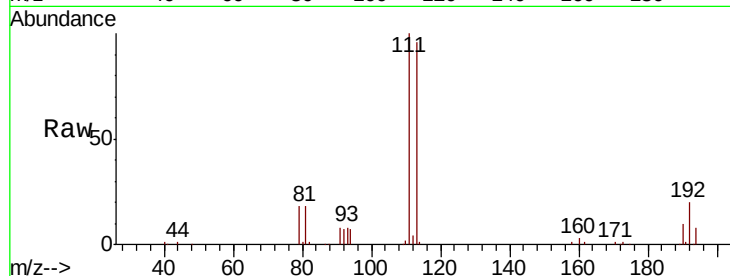
Tgt Ion:113 Resp: 88254

Ion Ratio Lower Upper

113 100

111 105.2 82.4 123.6

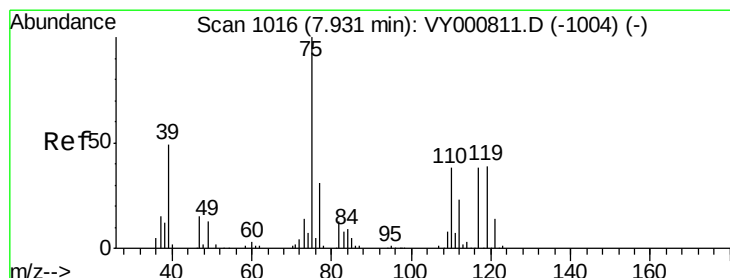
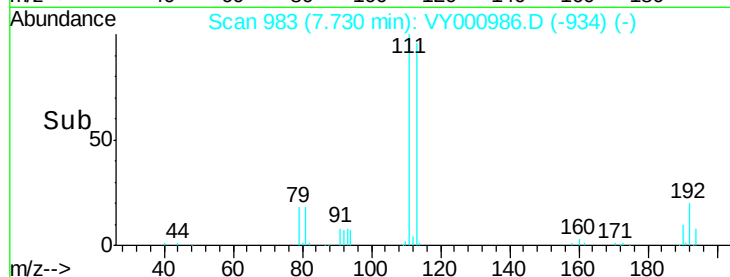
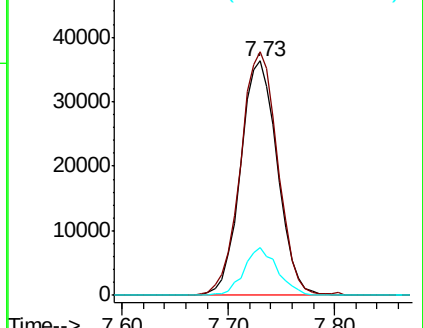
192 18.6 14.2 21.2



Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 4.347 ug/l

RT: 7.79 min Scan# 993

Delta R.T. -0.14 min

Lab File: VY000986.D

Acq: 17 Dec 2019 18:03

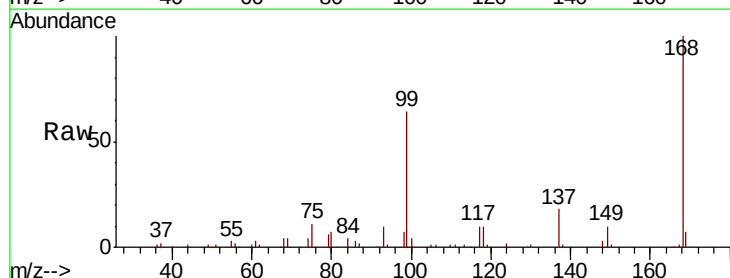
Tgt Ion: 75 Resp: 13568

Ion Ratio Lower Upper

75 100

110 9.3 17.9 53.7#

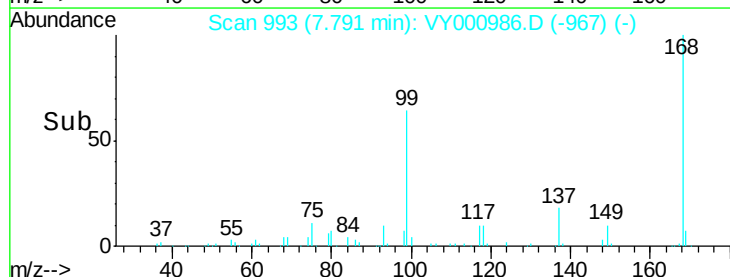
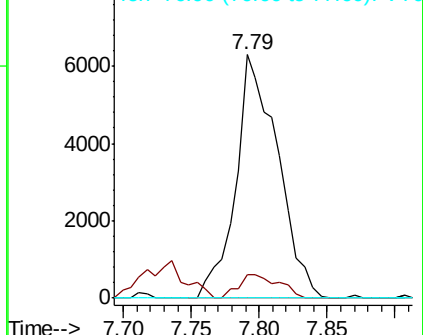
77 0.0 24.7 37.1#



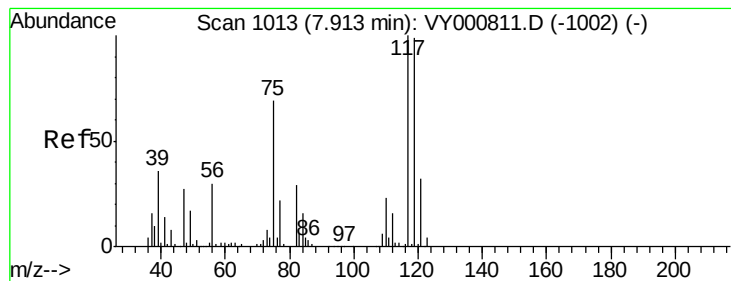
Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0







#38

Carbon Tetrachloride

Concen: 5.989 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.12 min

Lab File: VY000986.D

Acq: 17 Dec 2019 18:03

Instrument :

MSVOA\_Y

ClientSampled :

PF-K

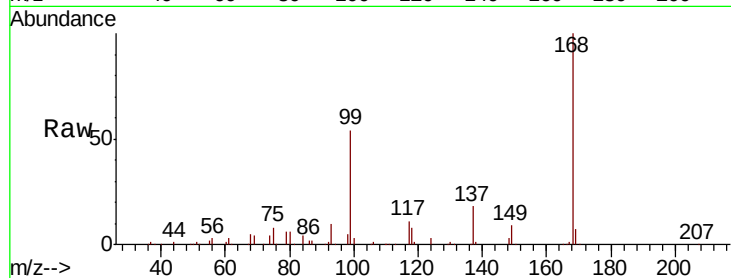
Tgt Ion:117 Resp: 16647

Ion Ratio Lower Upper

117 100

119 4.9 79.3 118.9#

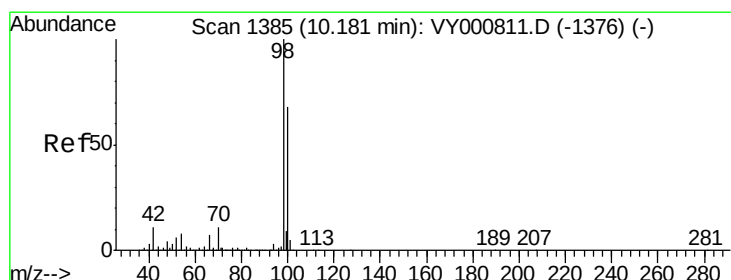
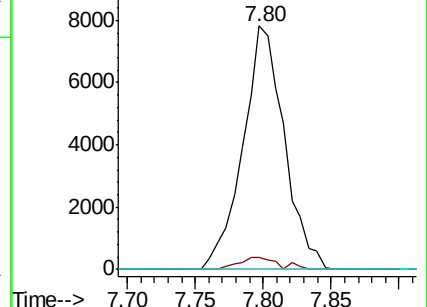
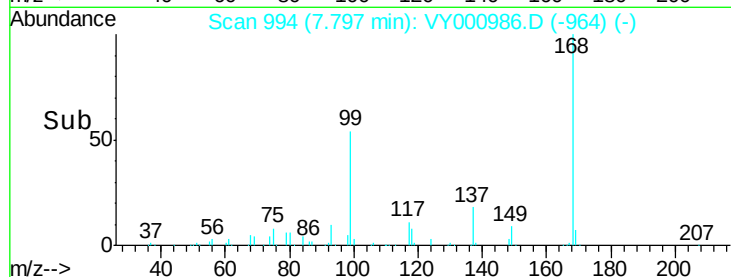
121 0.0 25.5 38.3#



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



#50

Toluene-d8

Concen: 50.238 ug/l

RT: 10.18 min Scan# 1385

Delta R.T. -0.00 min

Lab File: VY000986.D

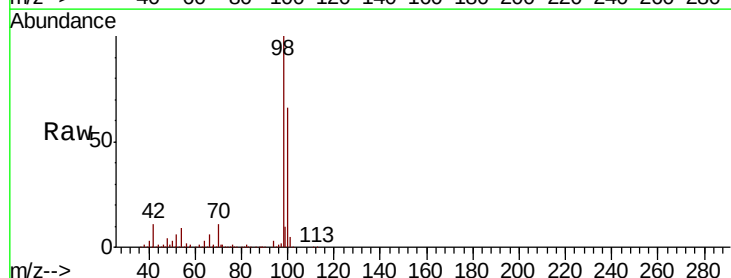
Acq: 17 Dec 2019 18:03

Tgt Ion: 98 Resp: 367457

Ion Ratio Lower Upper

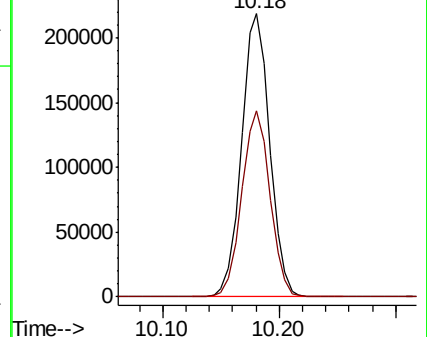
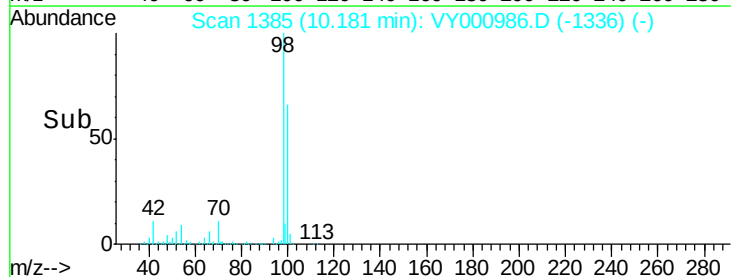
98 100

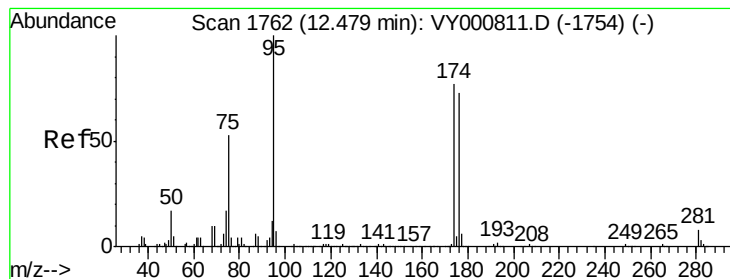
100 66.2 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY





#62

4-Bromofluorobenzene

Concen: 43.014 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.00 min

Lab File: VY000986.D

Acq: 17 Dec 2019 18:03

Instrument :

MSVOA\_Y

ClientSampled :

PF-K

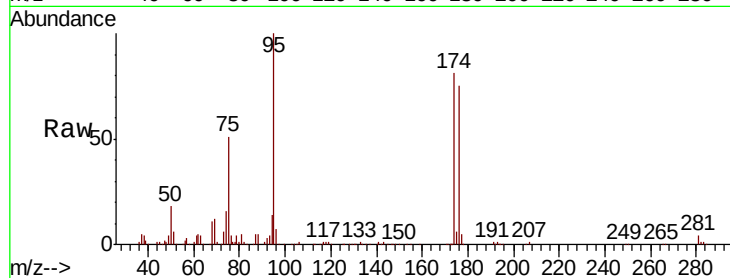
Tgt Ion: 95 Resp: 118157

Ion Ratio Lower Upper

95 100

174 80.9 0.0 150.6

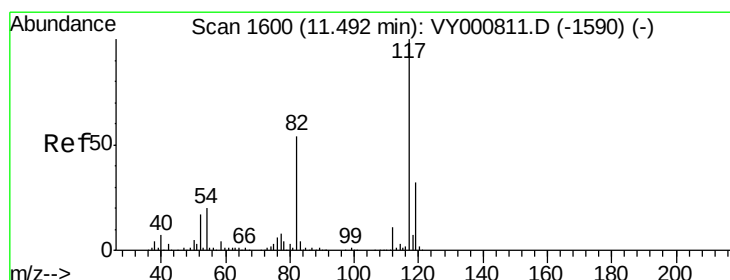
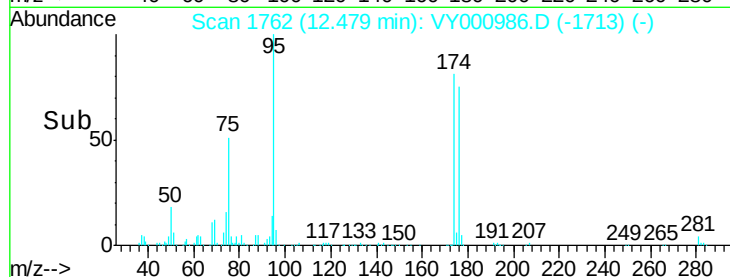
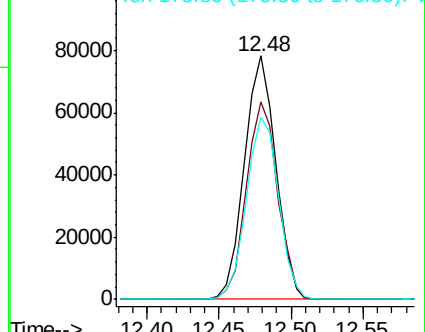
176 76.6 0.0 145.2



Abundance Ion 94.90 (94.60 to 95.60): VY000986.D (-1713) (-)

Ion 173.80 (173.50 to 174.50): VY000986.D (-1713) (-)

Ion 175.80 (175.50 to 176.50): VY000986.D (-1713) (-)



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.49 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VY000986.D

Acq: 17 Dec 2019 18:03

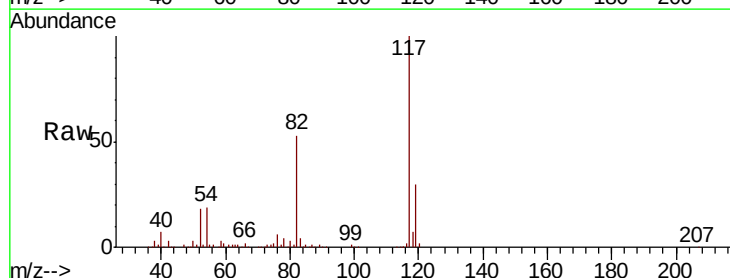
Tgt Ion: 117 Resp: 281632

Ion Ratio Lower Upper

117 100

82 53.4 43.1 64.7

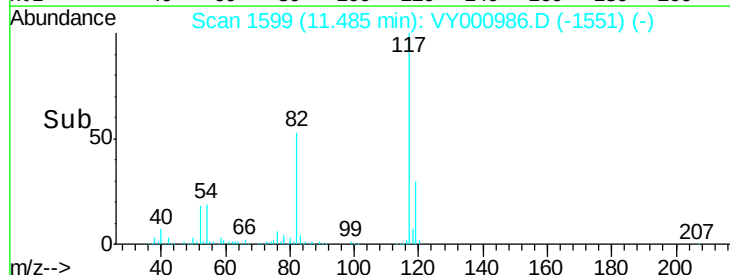
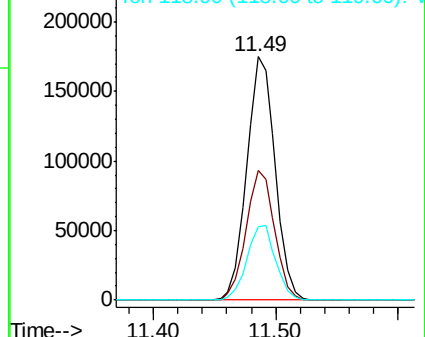
119 30.4 25.3 37.9

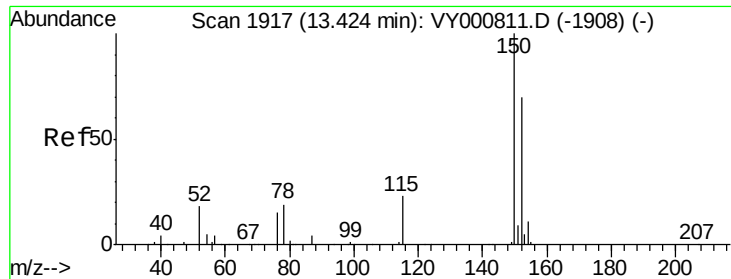


Abundance Ion 116.90 (116.60 to 117.60): VY000986.D (-1551) (-)

Ion 82.00 (81.70 to 82.70): VY000986.D (-1551) (-)

Ion 118.90 (118.60 to 119.60): VY000986.D (-1551) (-)



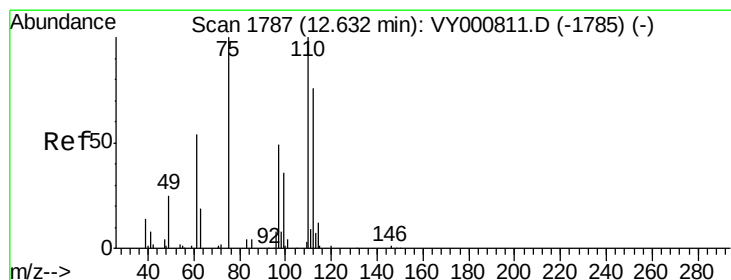
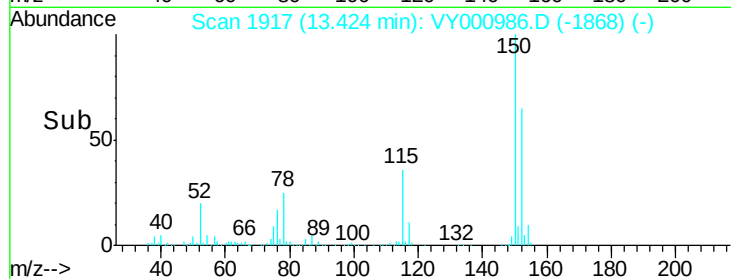
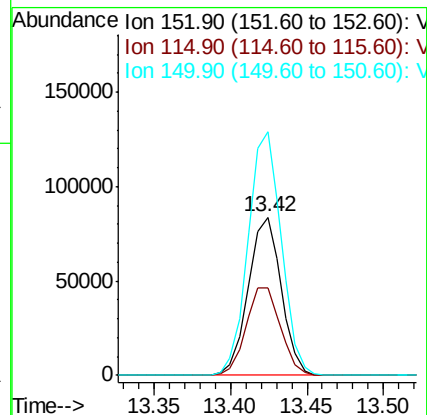
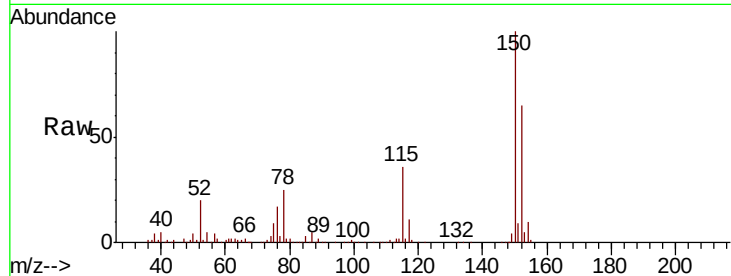


#72

1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.42 min Scan# 1917  
Delta R.T. -0.00 min  
Lab File: VY000986.D  
Acq: 17 Dec 2019 18:03

Instrument :  
MSVOA\_Y  
ClientSampleId :  
PF-K

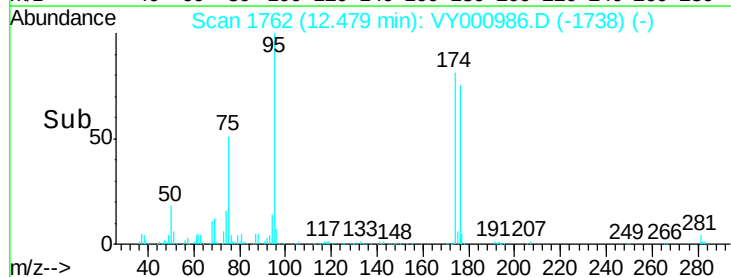
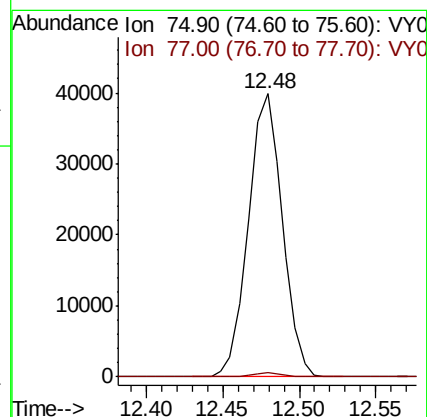
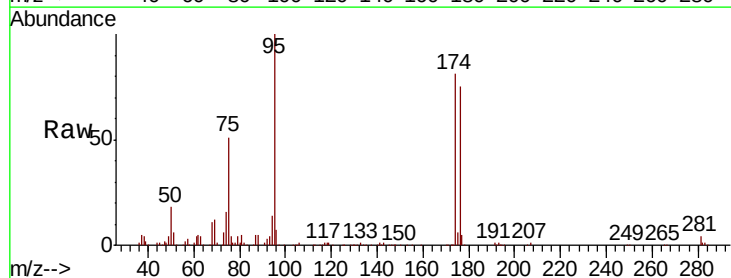
Tgt Ion:152 Resp: 125922  
Ion Ratio Lower Upper  
152 100  
115 57.7 29.3 87.8  
150 154.7 0.0 351.2

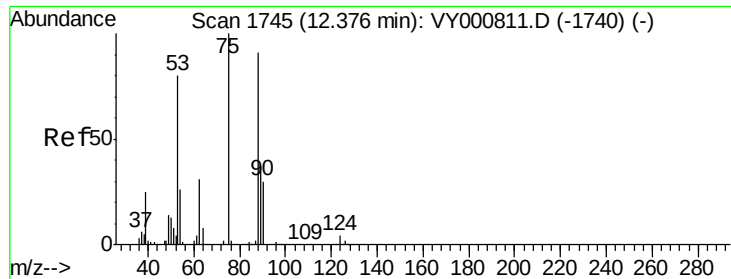


#76

1,2,3-Trichloropropane  
Concen: 43.206 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.15 min  
Lab File: VY000986.D  
Acq: 17 Dec 2019 18:03

Tgt Ion: 75 Resp: 61642  
Ion Ratio Lower Upper  
75 100  
77 1.4 0.0 0.0#





#81

trans-1,4-Dichloro-2-butene

Concen: 84.870 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000986.D

Acq: 17 Dec 2019 18:03

Instrument :

MSVOA\_Y

ClientSampleId :

PF-K

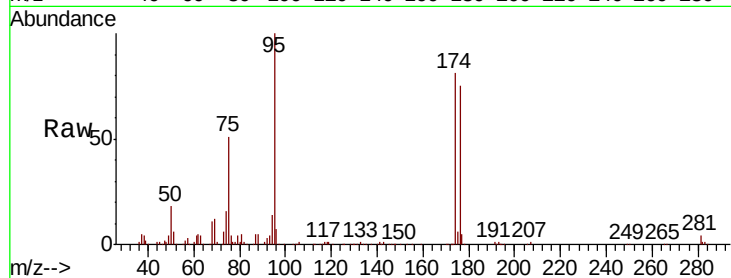
Tgt Ion: 75 Resp: 61642

Ion Ratio Lower Upper

75 100

53 0.0 64.6 96.8#

89 0.0 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

