

Data File : VY000867.D  
Acq On : 04 Dec 2019 17:43  
Operator : SY/MD  
Sample : K6135-03  
Misc : 6.82G/5ML/MSVOA\_Y/SOIL  
ALS Vial : 17 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VOC-35

Quant Time: Dec 05 07:56:13 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  | 222986   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.69  | 114  | 413740   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.49 | 117  | 354777   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.42 | 152  | 134423   | 50.00 | ug/l  | 0.00     |

System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.15   | 65  | 137795   | 58.16 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 116.32% |      |
| 35) Dibromofluoromethane  | 7.72   | 113 | 117610   | 48.78 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 97.56%  |      |
| 50) Toluene-d8            | 10.18  | 98  | 486671   | 50.48 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.96% |      |
| 62) 4-Bromofluorobenzene  | 12.48  | 95  | 149629   | 41.33 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 82.66%  |      |

Target Compounds

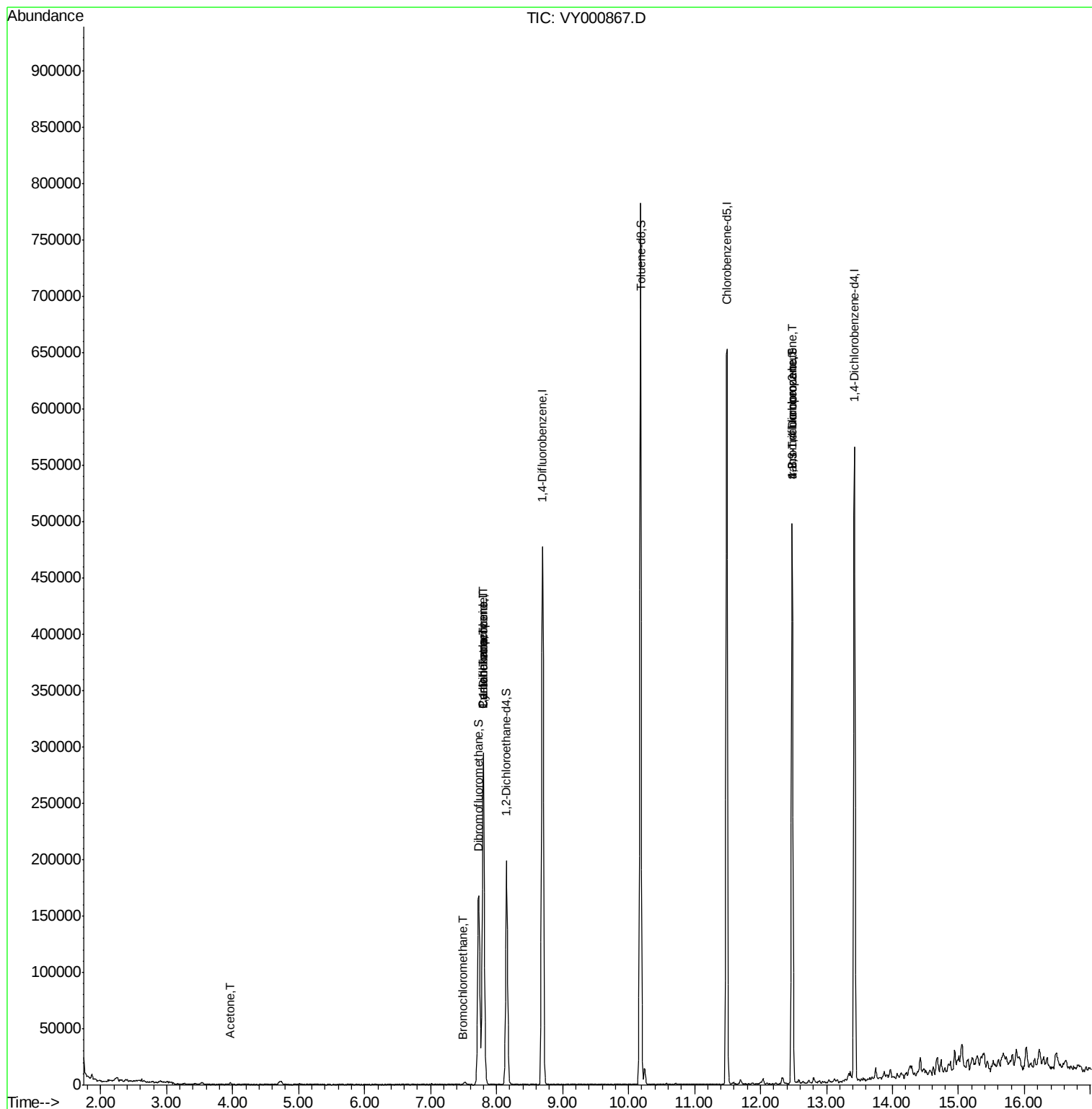
|                                |       |     |       |           |        | Qvalue |
|--------------------------------|-------|-----|-------|-----------|--------|--------|
| 5) Bromomethane                | 2.60  | 94  | 44    | Below Cal | #      | 3      |
| 16) Acetone                    | 3.97  | 43  | 1716  | 3.157     | ug/l # | 67     |
| 28) Bromochloromethane         | 7.48  | 49  | 22    | 2.028     | ug/l # | 15     |
| 31) Cyclohexane                | 7.80  | 56  | 5188  | 1.031     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.80  | 75  | 17880 | 4.346     | ug/l # | 49     |
| 38) Carbon Tetrachloride       | 7.80  | 117 | 22318 | 6.092     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.48 | 75  | 77507 | 50.891    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.48 | 75  | 77507 | 99.965    | ug/l # | 17     |

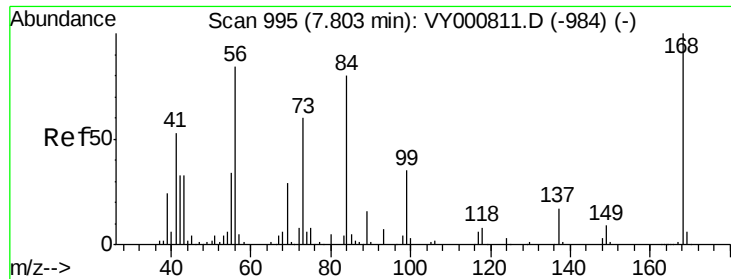
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.80 min Scan# 995

Delta R.T. -0.00 min

Lab File: VY000867.D

Acq: 04 Dec 2019 17:43

Instrument :

MSVOA\_Y

ClientSampled :

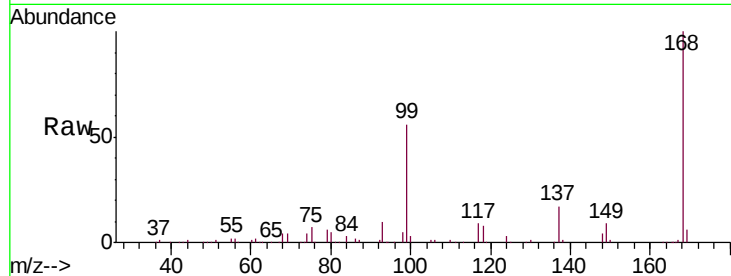
VOC-35

Tgt Ion:168 Resp: 222986

Ion Ratio Lower Upper

168 100

99 55.6 45.0 67.6



Abundance Ion 167.90 (167.60 to 168.60): VY000811.D (-984) (-)

Ion 98.90 (98.60 to 99.60): VY000811.D (-984) (-)

7.80

100000

80000

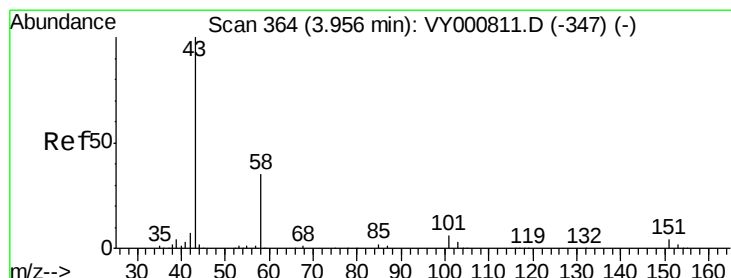
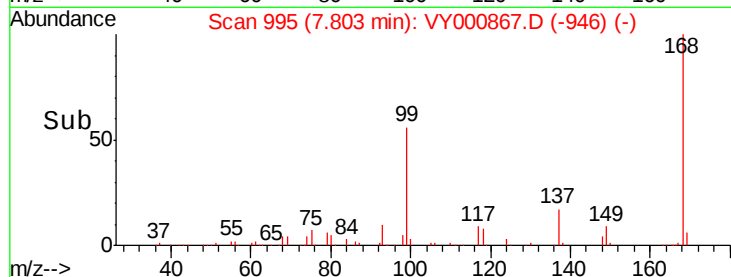
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 3.157 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.01 min

Lab File: VY000867.D

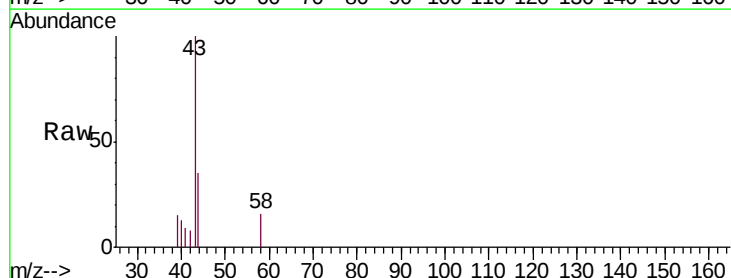
Acq: 04 Dec 2019 17:43

Tgt Ion: 43 Resp: 1716

Ion Ratio Lower Upper

43 100

58 16.0 28.0 42.0#



Abundance Ion 43.00 (42.70 to 43.70): VY000811.D (-347) (-)

Ion 58.00 (57.70 to 58.70): VY000811.D (-347) (-)

3.97

800

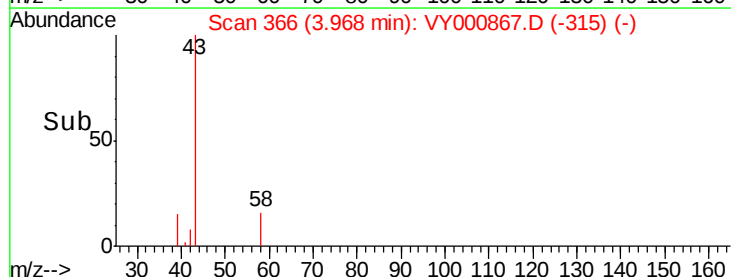
600

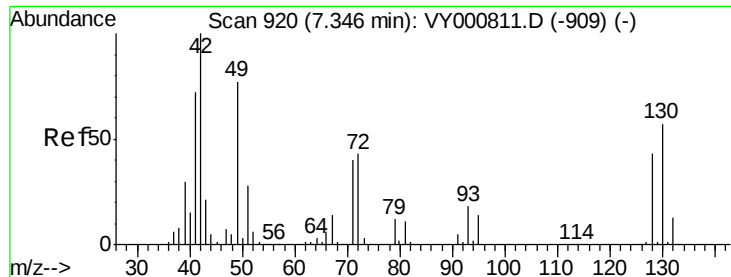
400

200

0

Time-->





#28

Bromochloromethane

Concen: 2.028 ug/l

RT: 7.48 min Scan# 942

Delta R.T. 0.13 min

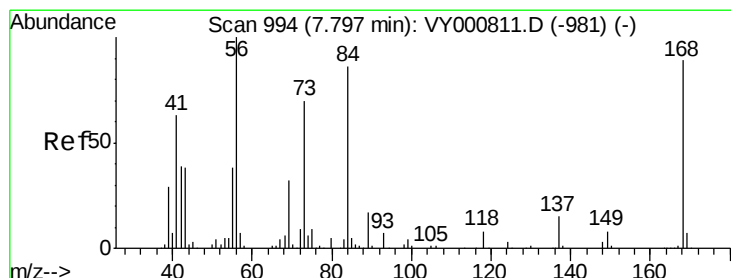
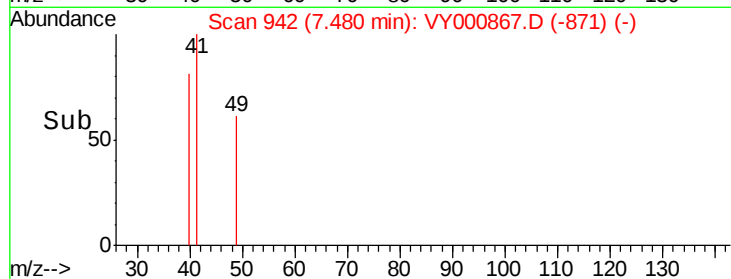
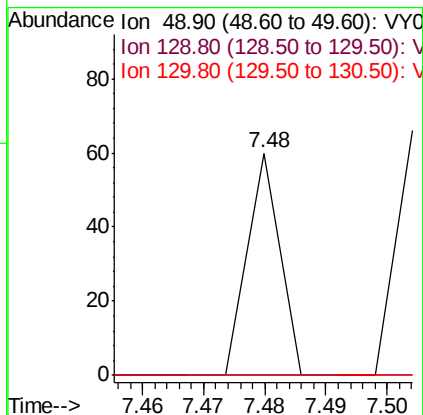
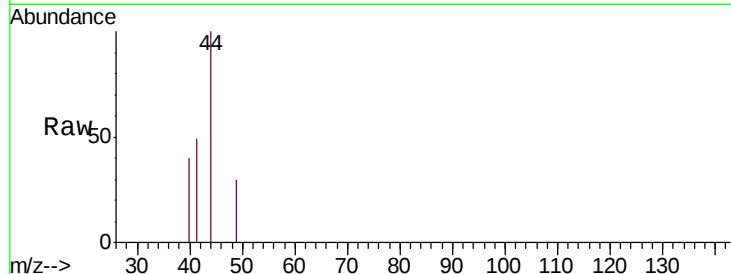
Lab File: VY000867.D

Acq: 04 Dec 2019 17:43

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VOC-35

Tgt Ion: 49 Resp: 22

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 49  | 100   |       |       |
| 129 | 0.0   | 0.0   | 3.8   |
| 130 | 0.0   | 58.7  | 88.1# |



#31

Cyclohexane

Concen: 1.031 ug/l

RT: 7.80 min Scan# 994

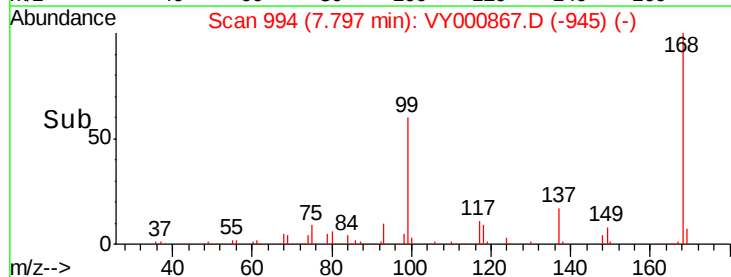
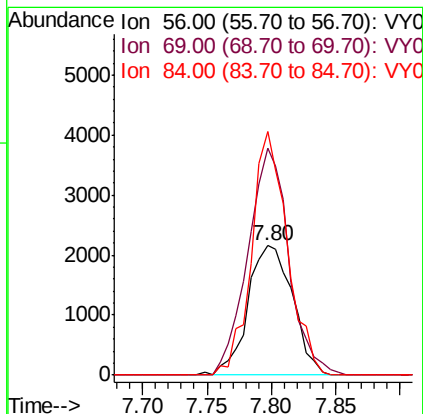
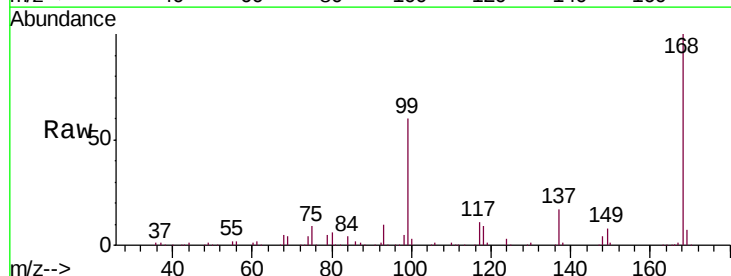
Delta R.T. -0.00 min

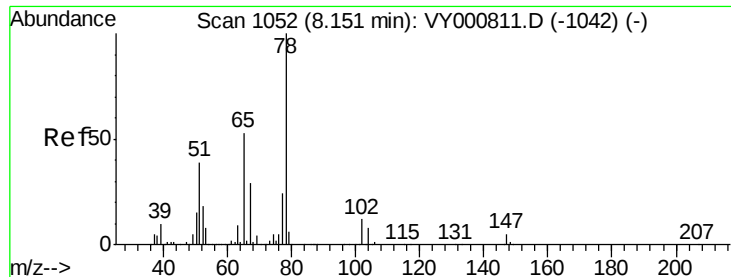
Lab File: VY000867.D

Acq: 04 Dec 2019 17:43

Tgt Ion: 56 Resp: 5188

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 56  | 100   |       |        |
| 69  | 176.1 | 25.9  | 38.9#  |
| 84  | 188.6 | 68.6  | 102.8# |

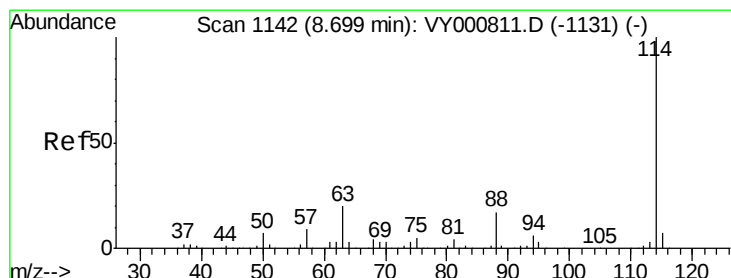
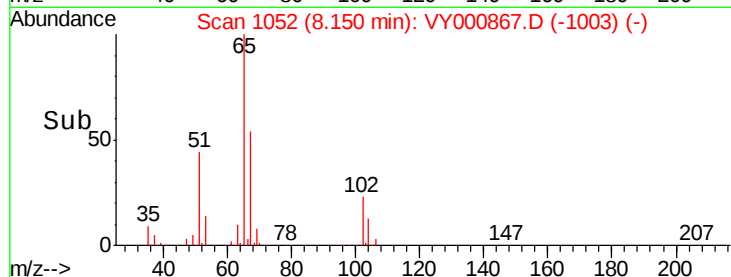
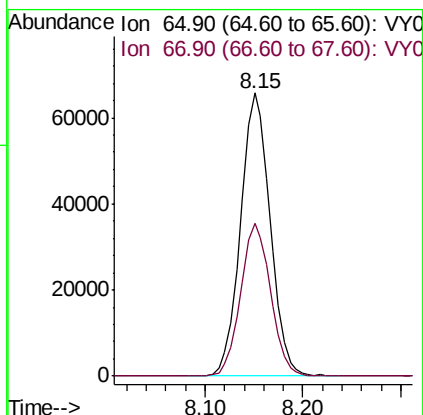
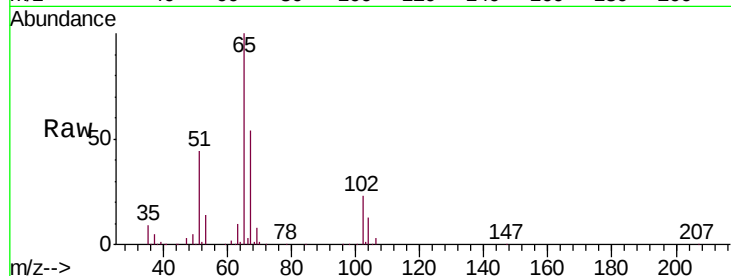




#33  
 1,2-Dichloroethane-d4  
 Concen: 58.156 ug/l  
 RT: 8.15 min Scan# 1052  
 Delta R.T. -0.00 min  
 Lab File: VY000867.D  
 Acq: 04 Dec 2019 17:43

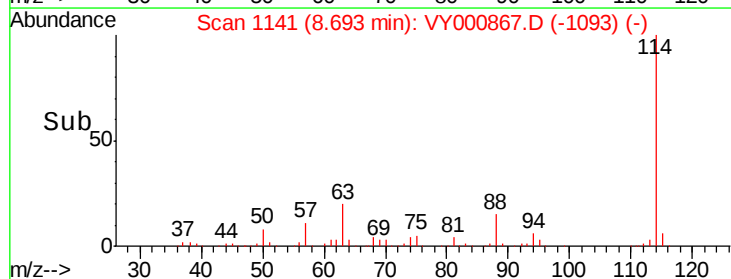
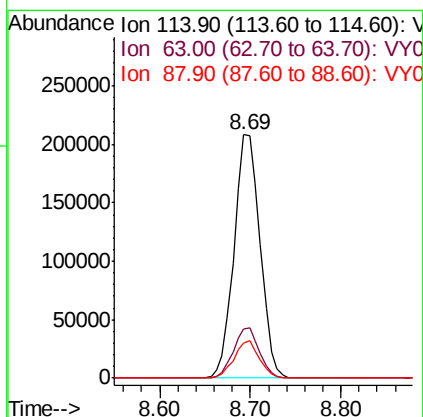
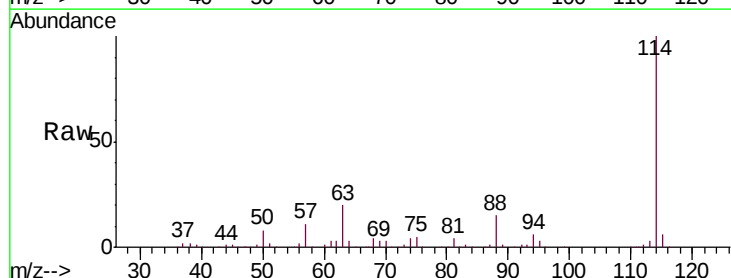
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 VOC-35

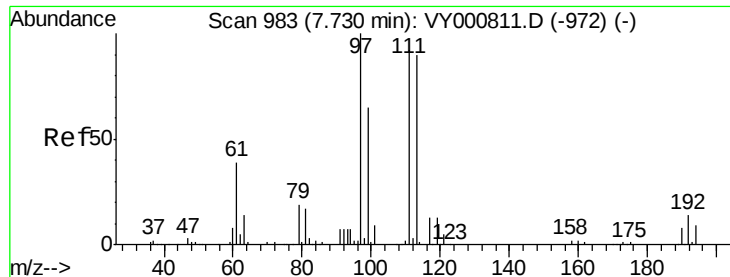
Tgt Ion: 65 Resp: 137795  
 Ion Ratio Lower Upper  
 65 100  
 67 54.6 0.0 112.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.69 min Scan# 1141  
 Delta R.T. -0.01 min  
 Lab File: VY000867.D  
 Acq: 04 Dec 2019 17:43

Tgt Ion: 114 Resp: 413740  
 Ion Ratio Lower Upper  
 114 100  
 63 20.0 0.0 39.8  
 88 14.6 0.0 33.2





#35

Dibromofluoromethane

Concen: 48.775 ug/l

RT: 7.72 min Scan# 982

Delta R.T. -0.01 min

Lab File: VY000867.D

Acq: 04 Dec 2019 17:43

Instrument :

MSVOA\_Y

ClientSampleId :

VOC-35

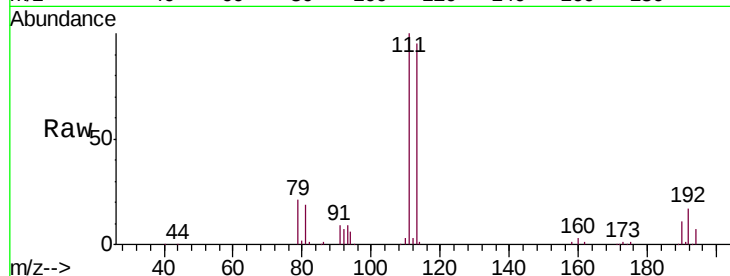
Tgt Ion:113 Resp: 117610

Ion Ratio Lower Upper

113 100

111 106.8 82.4 123.6

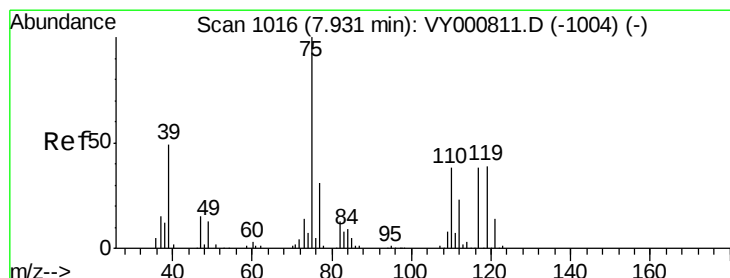
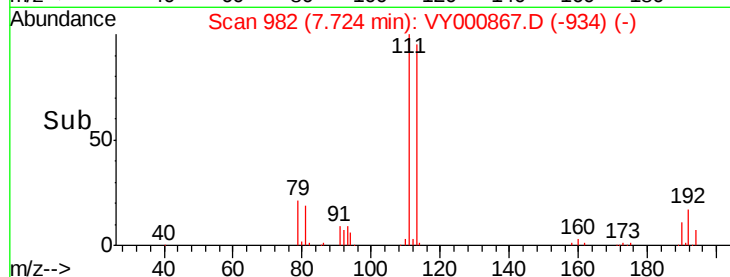
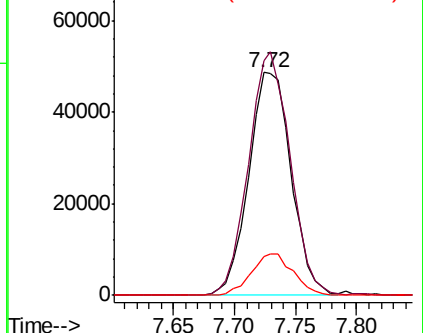
192 18.5 14.2 21.2



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: 4.346 ug/l

RT: 7.80 min Scan# 994

Delta R.T. -0.13 min

Lab File: VY000867.D

Acq: 04 Dec 2019 17:43

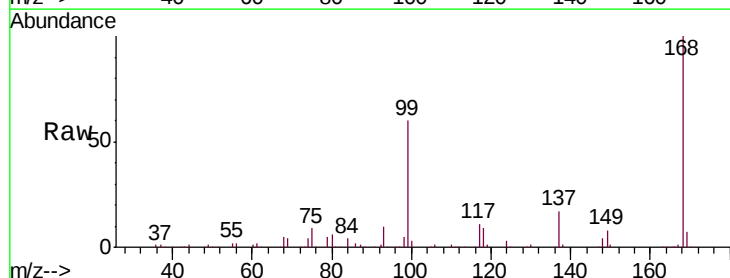
Tgt Ion: 75 Resp: 17880

Ion Ratio Lower Upper

75 100

110 8.6 17.9 53.7#

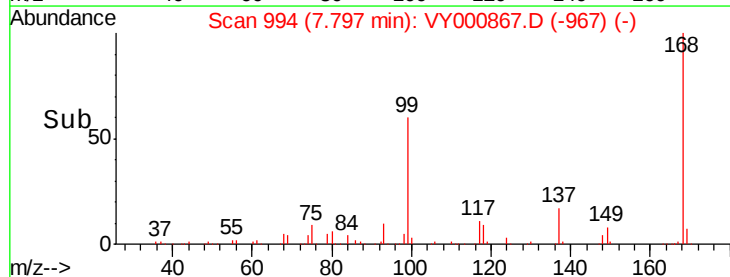
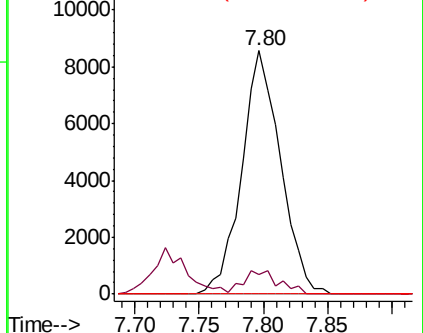
77 0.0 24.7 37.1#

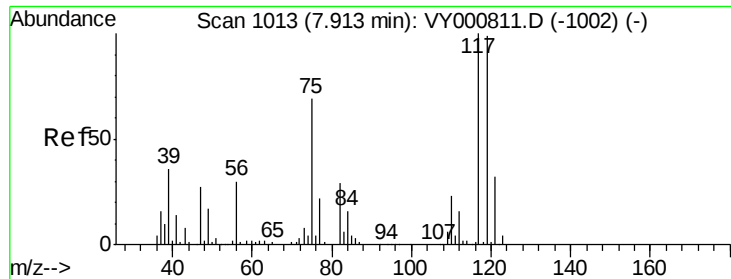


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0

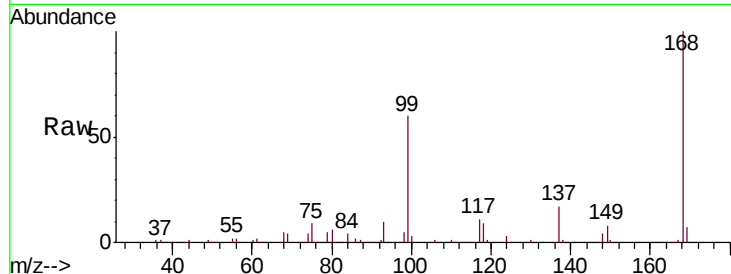




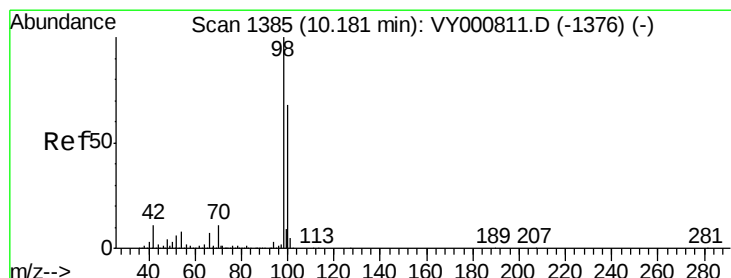
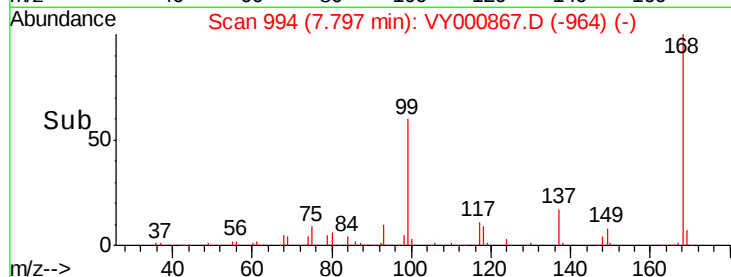
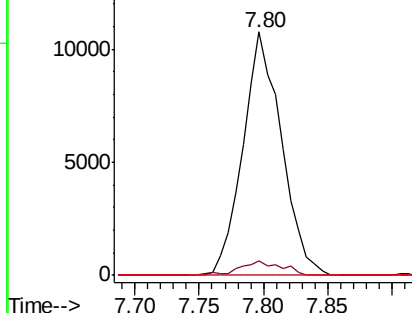
#38  
Carbon Tetrachloride  
Concen: 6.092 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.12 min  
Lab File: VY000867.D  
Acq: 04 Dec 2019 17:43

Instrument :  
MSVOA\_Y  
ClientSampleId :  
VOC-35

Tgt Ion: 117 Resp: 22318  
Ion Ratio Lower Upper  
117 100  
119 5.9 79.3 118.9#  
121 0.0 25.5 38.3#

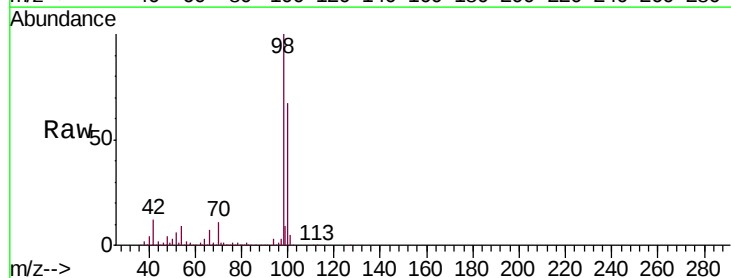


Abundance Ion 116.80 (116.50 to 117.50): V  
Ion 118.80 (118.50 to 119.50): V  
Ion 120.80 (120.50 to 121.50): V

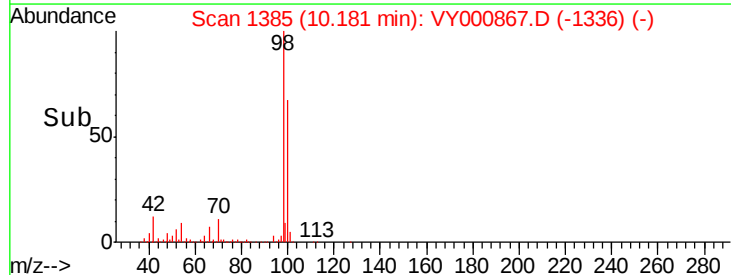
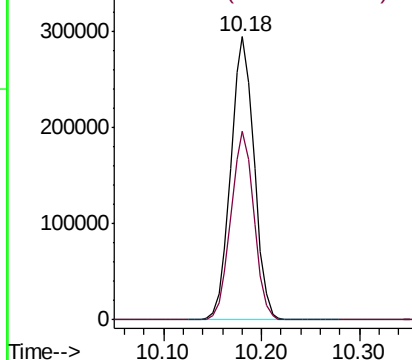


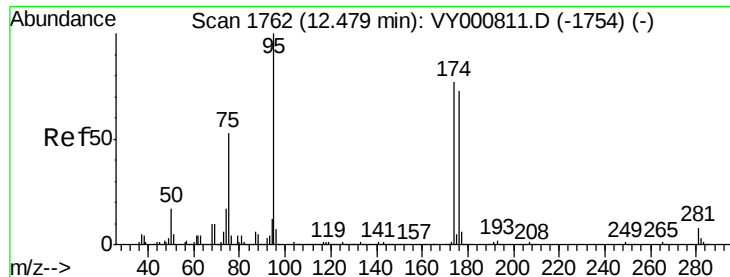
#50  
Toluene-d8  
Concen: 50.484 ug/l  
RT: 10.18 min Scan# 1385  
Delta R.T. -0.00 min  
Lab File: VY000867.D  
Acq: 04 Dec 2019 17:43

Tgt Ion: 98 Resp: 486671  
Ion Ratio Lower Upper  
98 100  
100 65.9 53.1 79.7



Abundance Ion 98.00 (97.70 to 98.70): VY0  
Ion 100.00 (99.70 to 100.70): VY

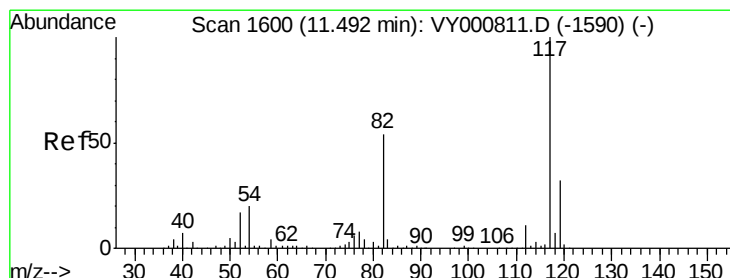
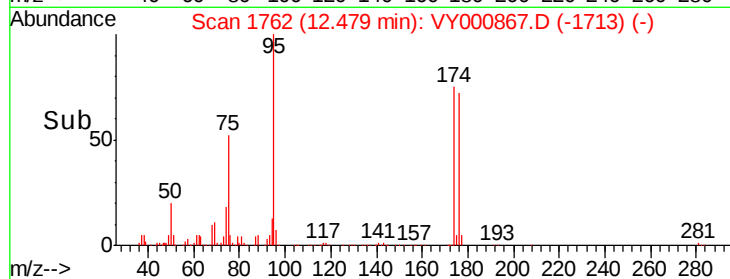
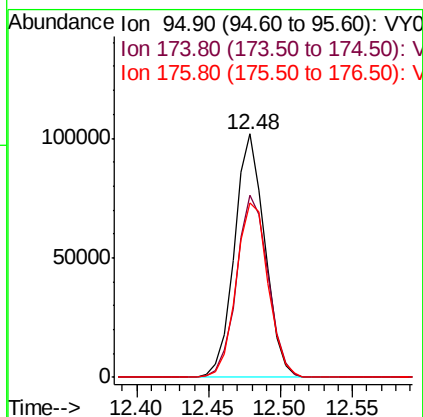
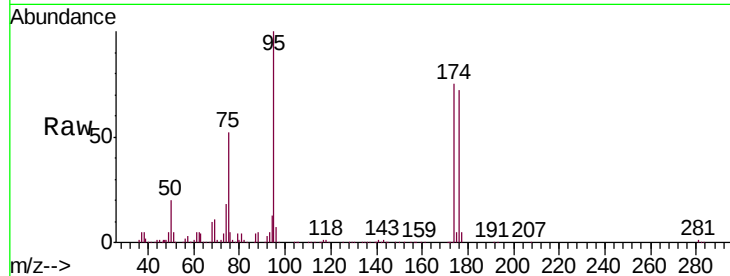




#62  
4-Bromofluorobenzene  
Concen: 41.330 ug/l  
RT: 12.48 min Scan# 1762  
Delta R.T. -0.00 min  
Lab File: VY000867.D  
Acq: 04 Dec 2019 17:43

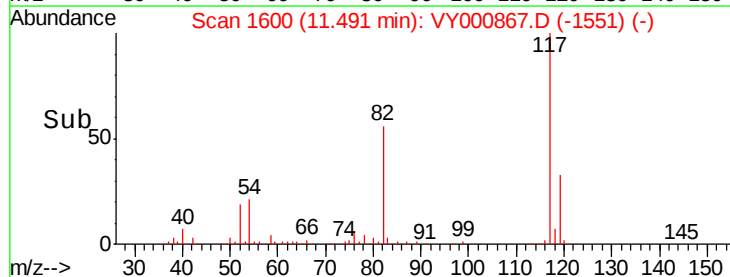
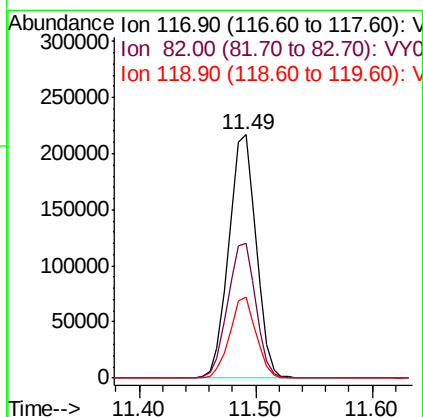
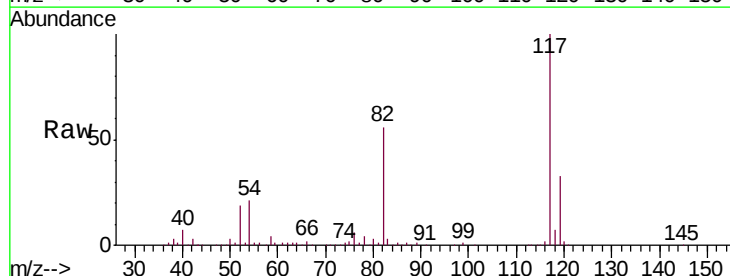
Instrument :  
MSVOA\_Y  
ClientSampled :  
VOC-35

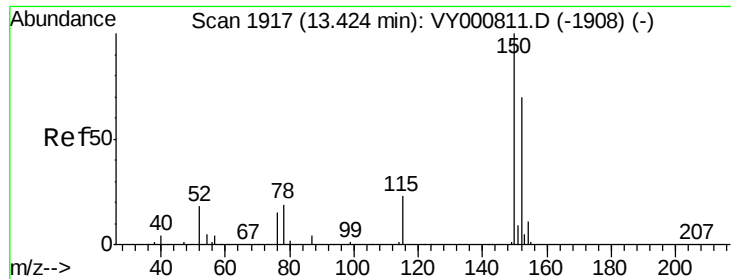
Tgt Ion: 95 Resp: 149629  
Ion Ratio Lower Upper  
95 100  
174 77.3 0.0 150.6  
176 75.1 0.0 145.2



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.49 min Scan# 1600  
Delta R.T. -0.00 min  
Lab File: VY000867.D  
Acq: 04 Dec 2019 17:43

Tgt Ion: 117 Resp: 354777  
Ion Ratio Lower Upper  
117 100  
82 55.5 43.1 64.7  
119 33.4 25.3 37.9





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.42 min Scan# 1917

Delta R.T. -0.00 min

Lab File: VY000867.D

Acq: 04 Dec 2019 17:43

Instrument :

MSVOA\_Y

ClientSampleId :

VOC-35

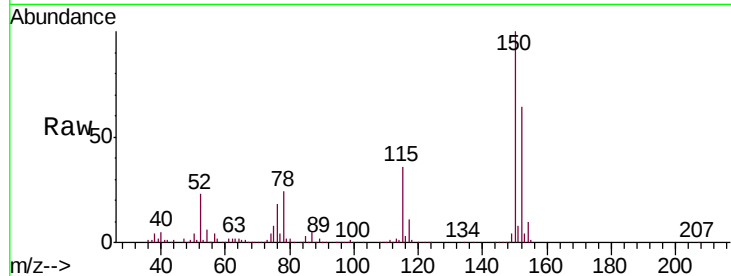
Tgt Ion:152 Resp: 134423

Ion Ratio Lower Upper

152 100

115 60.6 29.3 87.8

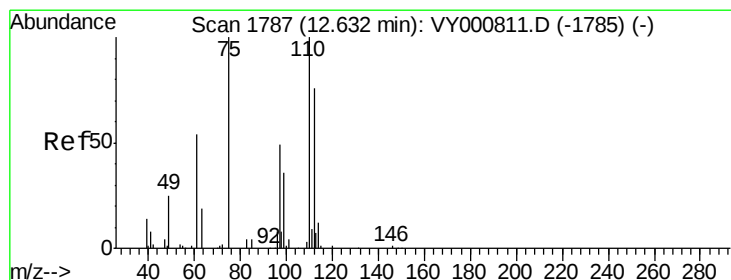
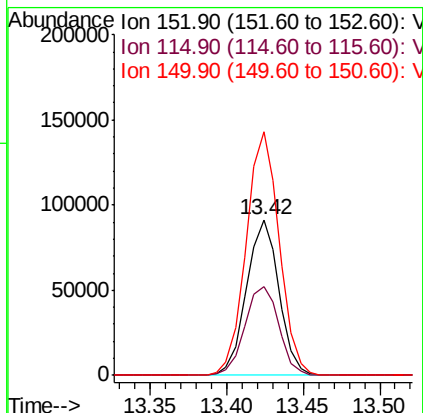
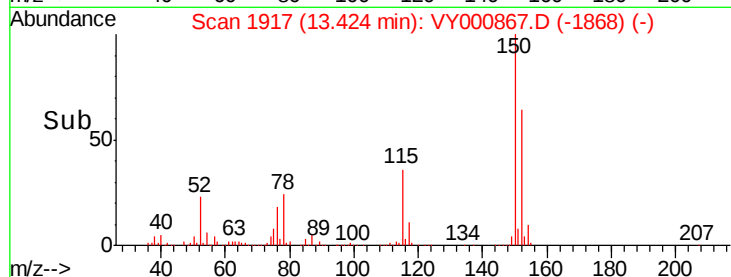
150 159.5 0.0 351.2



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: 50.891 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. -0.15 min

Lab File: VY000867.D

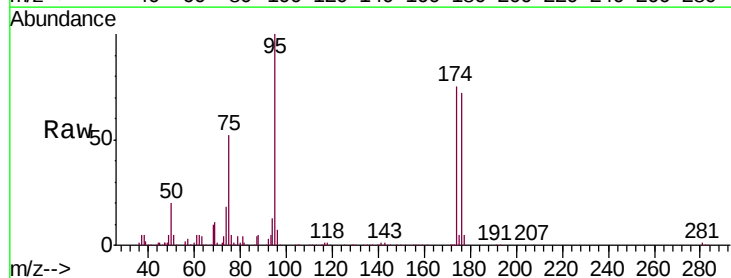
Acq: 04 Dec 2019 17:43

Tgt Ion: 75 Resp: 77507

Ion Ratio Lower Upper

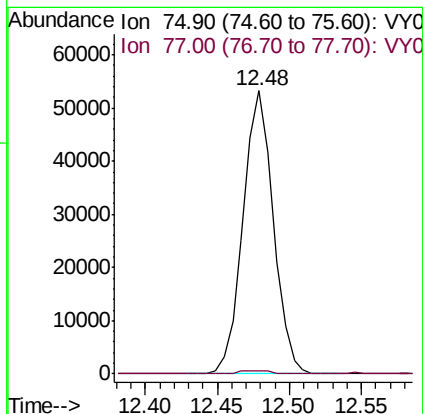
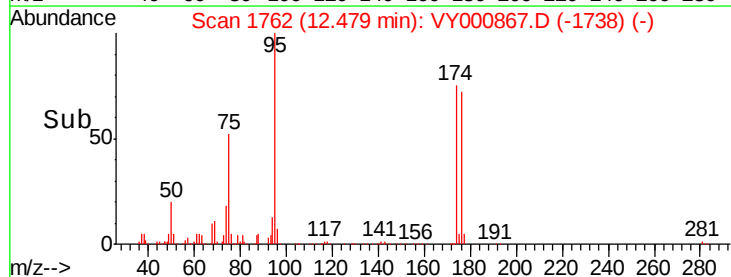
75 100

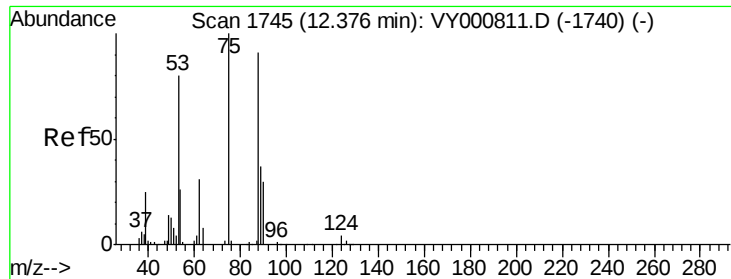
77 1.3 0.0 0.0#



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: 99.965 ug/l

RT: 12.48 min Scan# 1762

Delta R.T. 0.10 min

Lab File: VY000867.D

Acq: 04 Dec 2019 17:43

Instrument :

MSVOA\_Y

ClientSampleId :

VOC-35

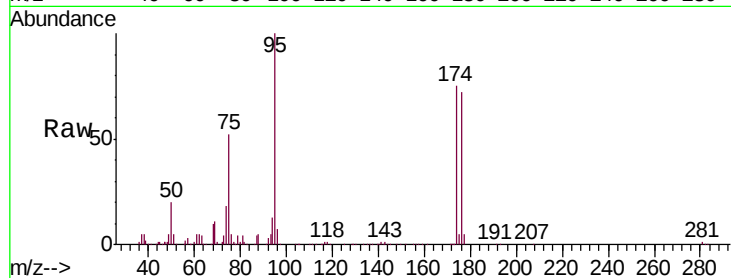
Tgt Ion: 75 Resp: 77507

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

