

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY030420\  
 Data File : VY001861.D  
 Acq On : 04 Mar 2020 18:04  
 Operator : SY/MD  
 Sample : L1778-08  
 Misc : 6.03G/5ML/MSVOA Y/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 DN2

Quant Time: Mar 05 04:11:28 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Mar 05 04:05:33 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 144119   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 277794   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 242104   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 95035    | 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   | 88842    | 57.74  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 115.48% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 81115    | 53.47  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 106.94% |          |
| 50) Toluene-d8              | 10.19 | 98   | 333140   | 52.08  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 104.16% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 105062   | 47.24  | ug/l    | 0.00     |
| Spiked Amount               |       |      |          | 50.000 |         |          |
|                             |       |      | Recovery | =      | 94.48%  |          |

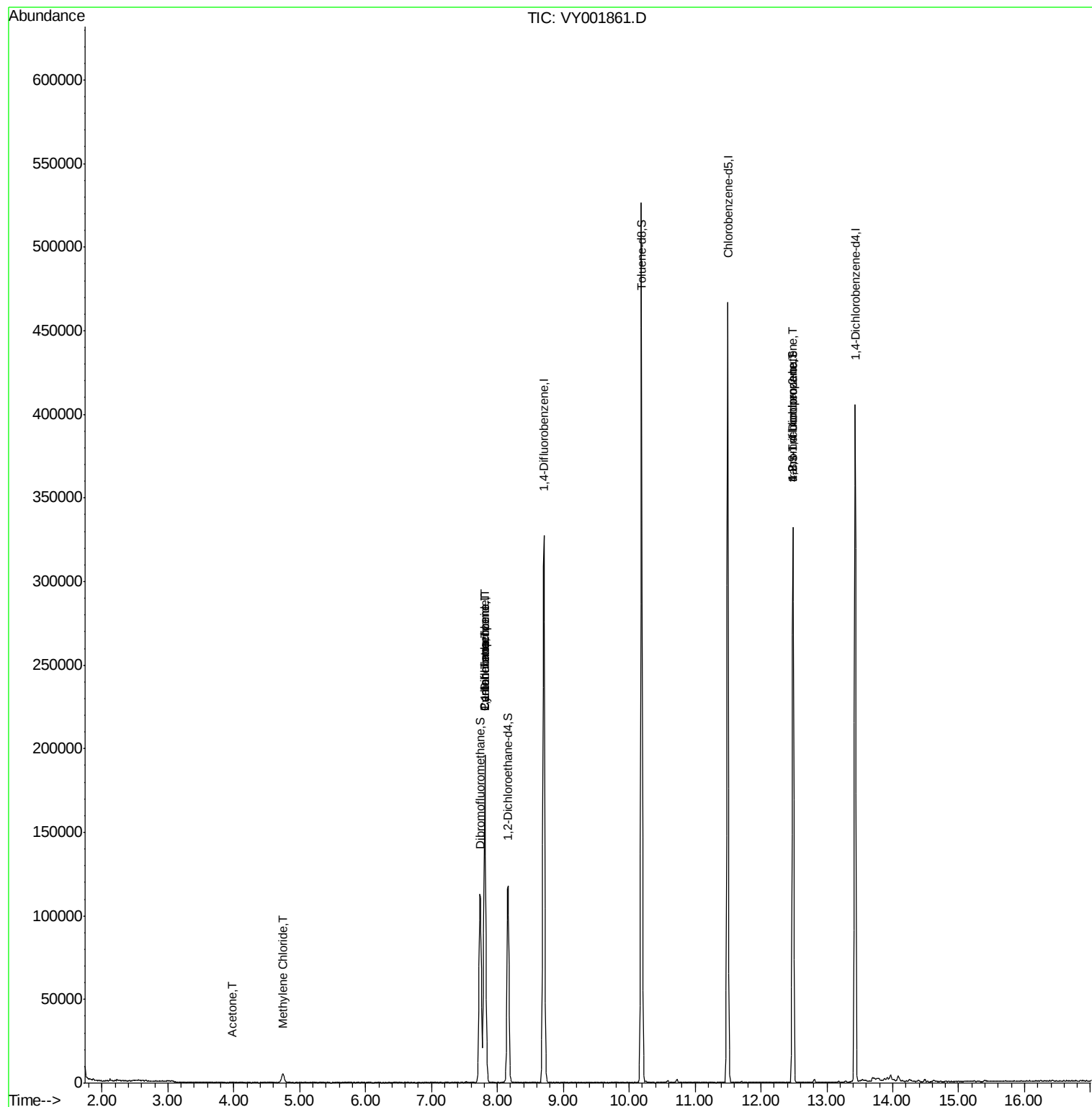
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.68  | 94   | 54       | Below Cal |        | 92     |
| 11) Tert butyl alcohol         | 4.99  | 59   | 19       | Below Cal | #      | 74     |
| 16) Acetone                    | 3.98  | 43   | 589      | 1.314     | ug/l # | 76     |
| 20) Methylene Chloride         | 4.75  | 84   | 3731     | 1.943     | ug/l   | 91     |
| 31) Cyclohexane                | 7.80  | 56   | 3396     | 1.004     | ug/l # | 1      |
| 36) 1,1-Dichloropropene        | 7.81  | 75   | 11990    | 4.485     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.81  | 117  | 14678    | 6.428     | ug/l # | 15     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 53821    | 47.728    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 53821    | 96.409    | ug/l # | 17     |

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

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY030420\  
Data File : VY001861.D  
Acq On : 04 Mar 2020 18:04  
Operator : SY/MD  
Sample : L1778-08  
Misc : 6.03G/5ML/MSVOA Y/SOIL  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DN2

Quant Time: Mar 05 04:11:28 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y030420S.M  
Quant Title : SW846 8260  
QLast Update : Thu Mar 05 04:05:33 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.01 min

Lab File: VY001861.D

Acq: 04 Mar 2020 18:04

Instrument :

MSVOA\_Y

ClientSampleId :

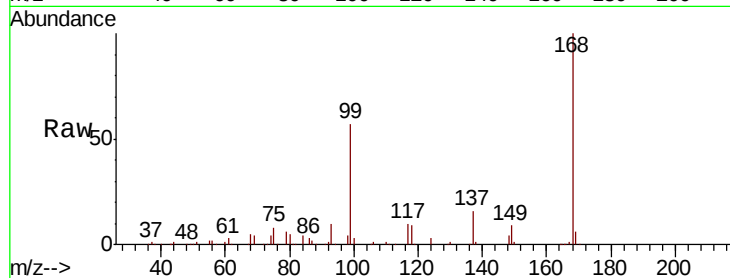
DN2

Tot Ion:168 Resp: 144119

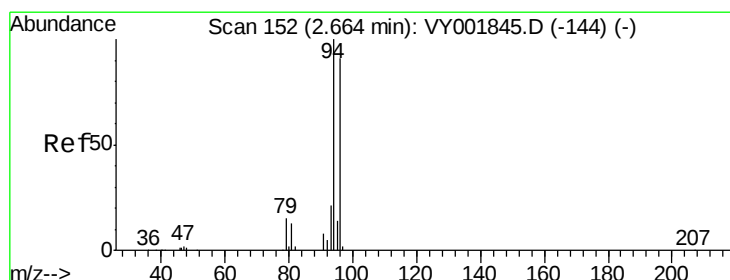
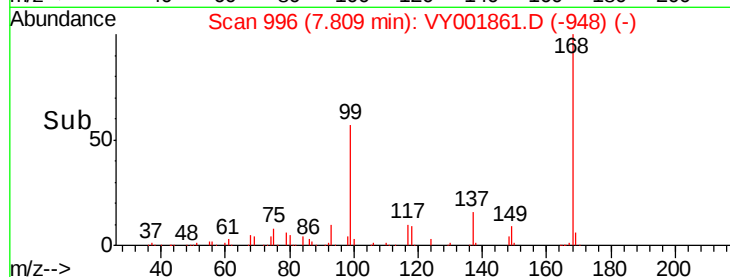
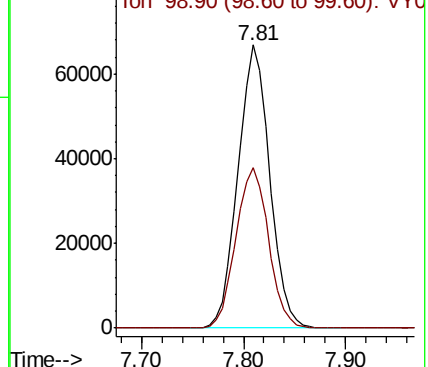
Ion Ratio Lower Upper

168 100

99 56.8 46.7 70.1



Abundance Ion 167.90 (167.60 to 168.60): VY001845.D (-986) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.68 min Scan# 154

Delta R.T. 0.01 min

Lab File: VY001861.D

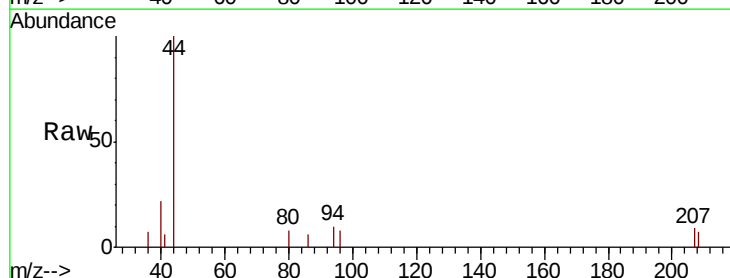
Acq: 04 Mar 2020 18:04

Tgt Ion: 94 Resp: 54

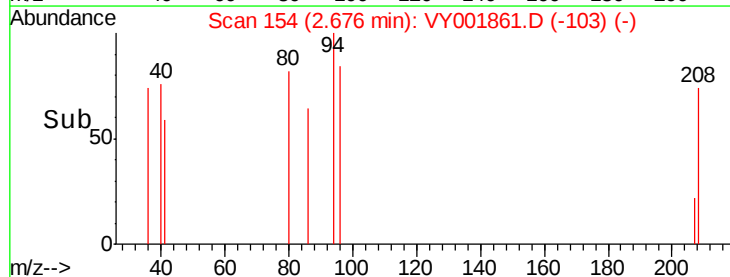
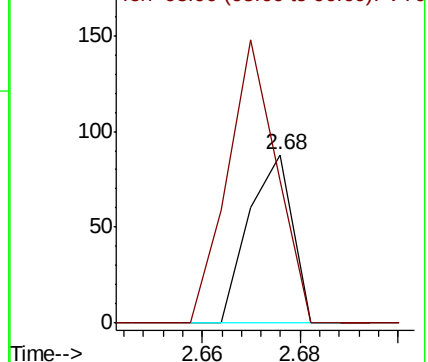
Ion Ratio Lower Upper

94 100

96 84.1 73.2 109.8



Abundance Ion 93.90 (93.60 to 94.60): VY001845.D (-144) (-)



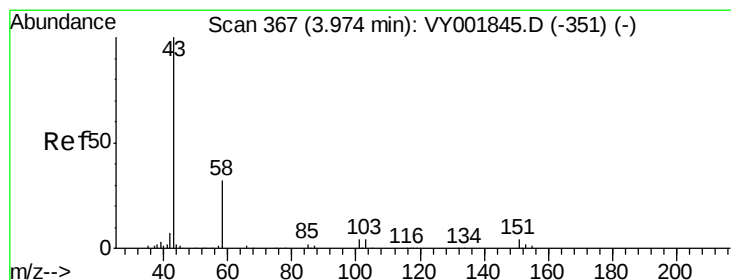
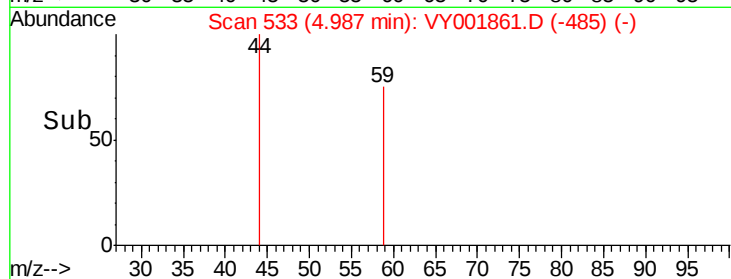
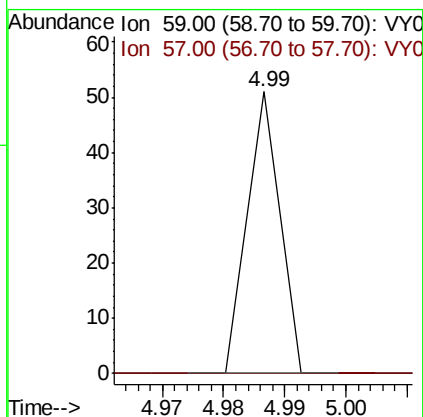
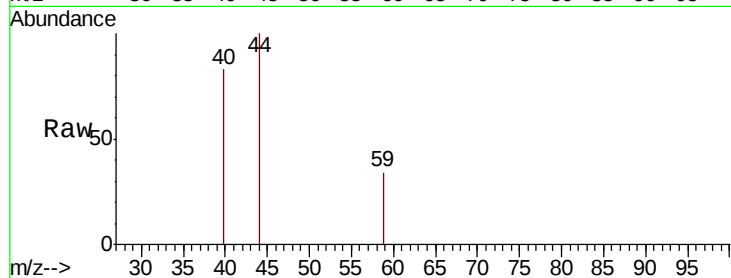


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 4.99 min Scan# 533  
 Delta R.T. -0.01 min  
 Lab File: VY001861.D  
 Acq: 04 Mar 2020 18:04

Instrument :  
 MSVOA\_Y  
 ClientSampleID :  
 DN2

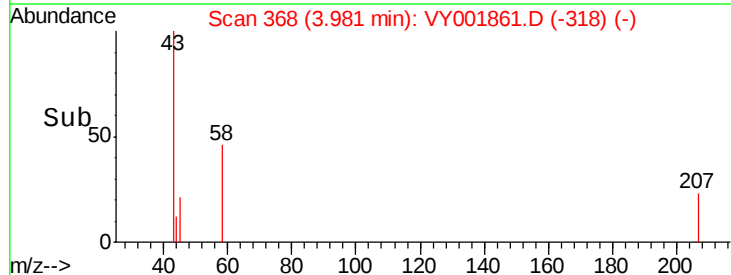
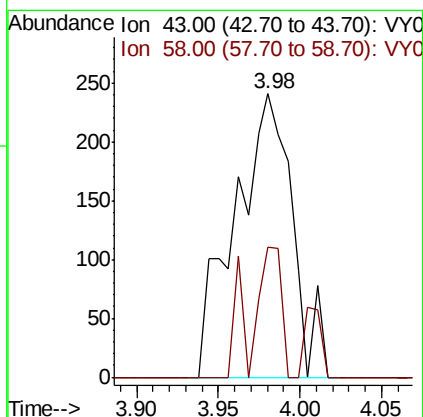
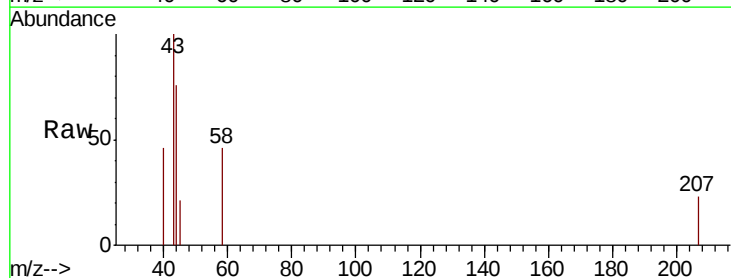
Tot Ion: 59 Resp: 19  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.4 11.2#

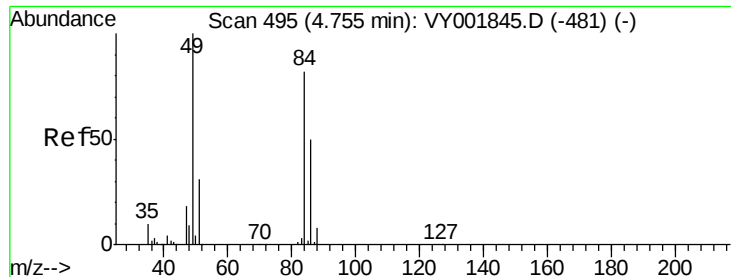


#16

Acetone  
 Concen: 1.314 ug/l  
 RT: 3.98 min Scan# 368  
 Delta R.T. 0.01 min  
 Lab File: VY001861.D  
 Acq: 04 Mar 2020 18:04

Tgt Ion: 43 Resp: 589  
 Ion Ratio Lower Upper  
 43 100  
 58 46.1 25.9 38.9#

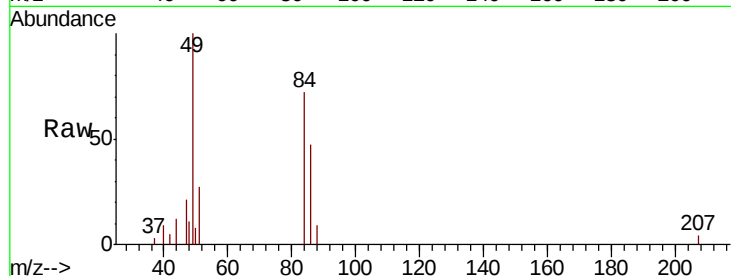




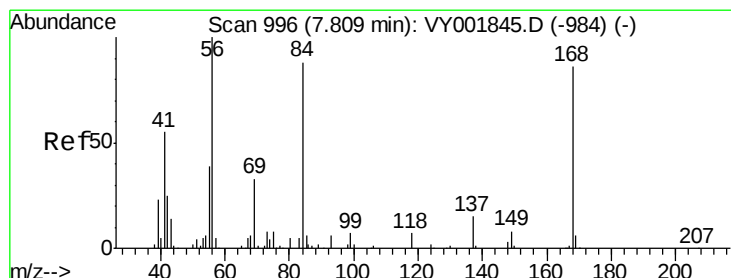
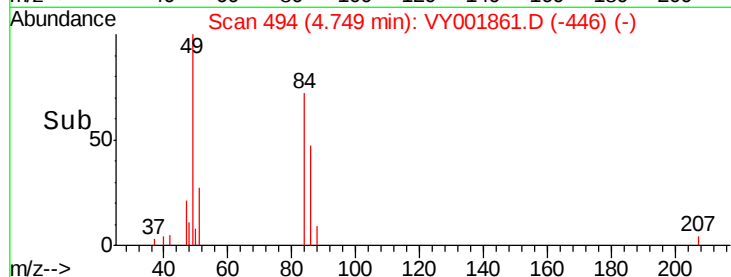
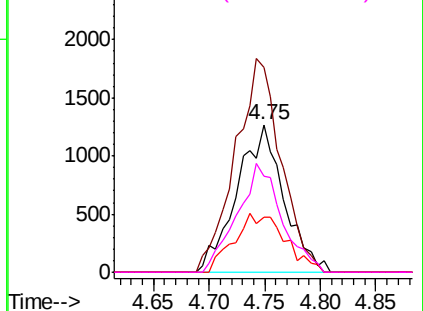
#20  
Methvlene Chloride  
Concen: 1.943 ug/l  
RT: 4.75 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VY001861.D  
Acq: 04 Mar 2020 18:04

Instrument :  
MSVOA\_Y  
ClientSampled :  
DN2

| Tot Ion: | 84    | Resp: | 3731  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 84       | 100   |       |       |
| 49       | 138.7 | 98.2  | 147.2 |
| 51       | 37.3  | 30.2  | 45.2  |
| 86       | 65.0  | 48.9  | 73.3  |

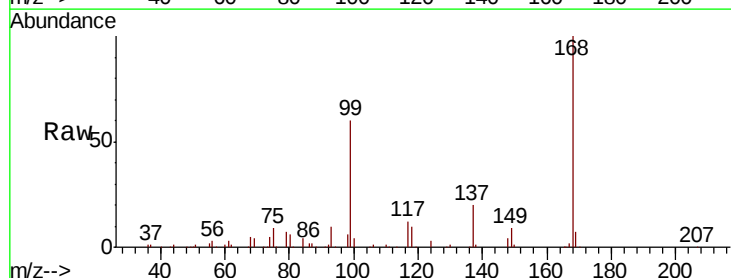


Abundance Ion 83.90 (83.60 to 84.60): VY0  
Ion 48.90 (48.60 to 49.60): VY0  
Ion 50.90 (50.60 to 51.60): VY0  
Ion 85.90 (85.60 to 86.60): VY0

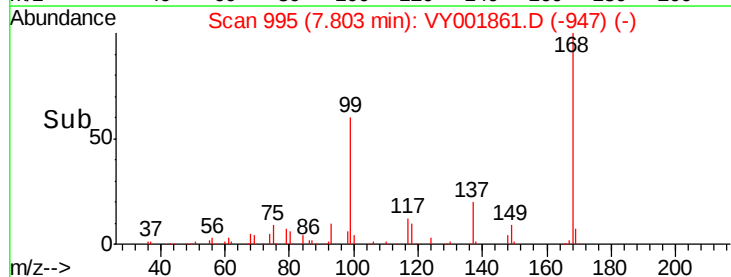
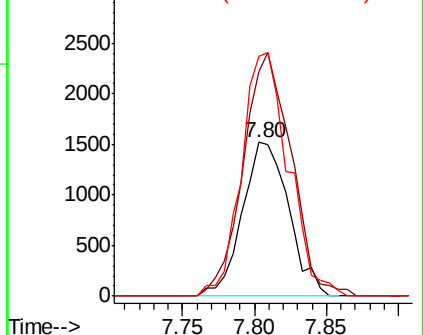


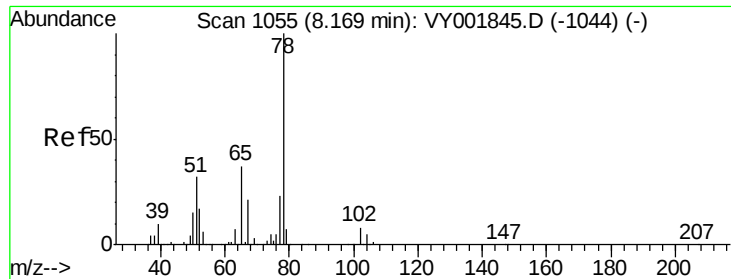
#31  
Cyclohexane  
Concen: 1.004 ug/l  
RT: 7.80 min Scan# 995  
Delta R.T. -0.01 min  
Lab File: VY001861.D  
Acq: 04 Mar 2020 18:04

| Tgt Ion: | 56    | Resp: | 3396   |
|----------|-------|-------|--------|
| Ion      | Ratio | Lower | Upper  |
| 56       | 100   |       |        |
| 69       | 146.0 | 26.7  | 40.1#  |
| 84       | 156.4 | 70.4  | 105.6# |



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

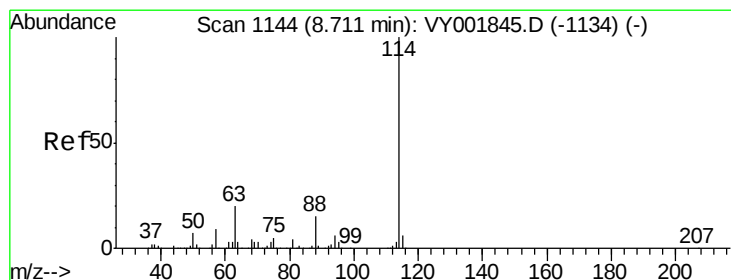
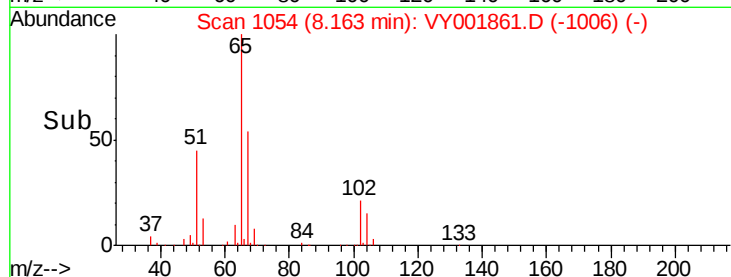
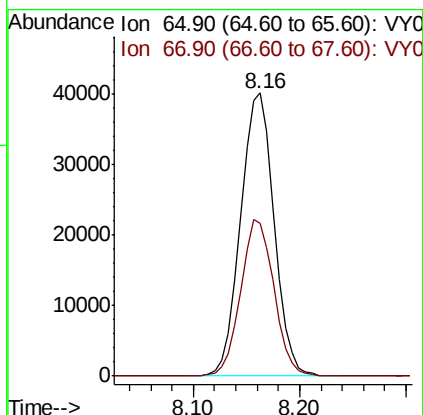
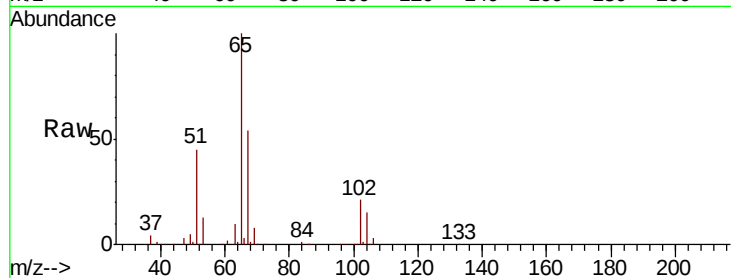




#33  
 1,2-Dichloroethane-d4  
 Concen: 57.743 ug/l  
 RT: 8.16 min Scan# 1054  
 Delta R.T. -0.01 min  
 Lab File: VY001861.D  
 Acq: 04 Mar 2020 18:04

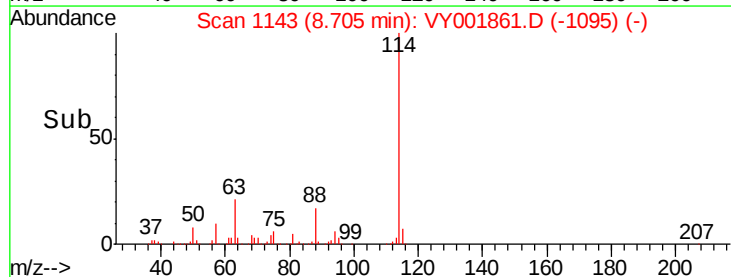
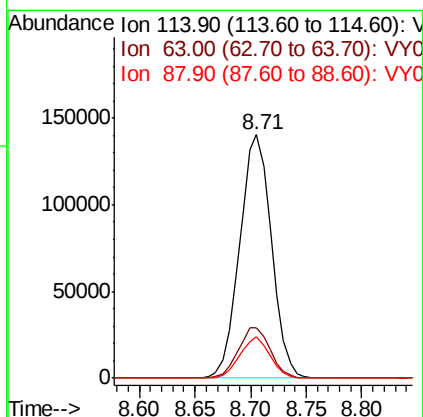
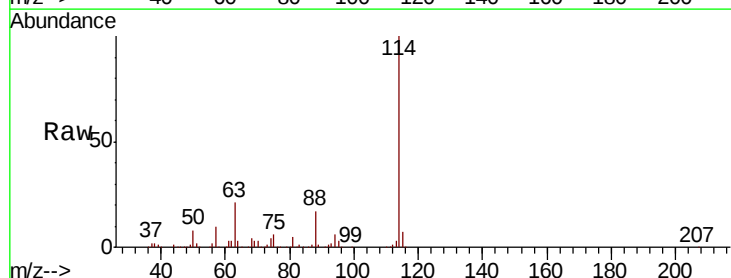
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 DN2

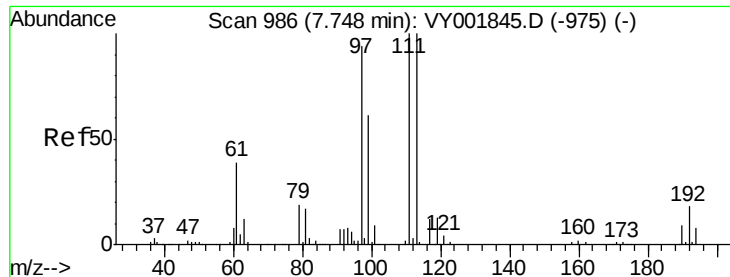
Tot Ion: 65 Resp: 88842  
 Ion Ratio Lower Upper  
 65 100  
 67 55.1 0.0 110.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1143  
 Delta R.T. -0.01 min  
 Lab File: VY001861.D  
 Acq: 04 Mar 2020 18:04

Tgt Ion: 114 Resp: 277794  
 Ion Ratio Lower Upper  
 114 100  
 63 20.6 0.0 39.4  
 88 17.2 0.0 30.4





#35

Dibromofluoromethane

Concen: 53.475 ug/l

RT: 7.74 min Scan# 985

Delta R.T. -0.01 min

Lab File: VY001861.D

Acq: 04 Mar 2020 18:04

Instrument :

MSVOA\_Y

ClientSampleId :

DN2

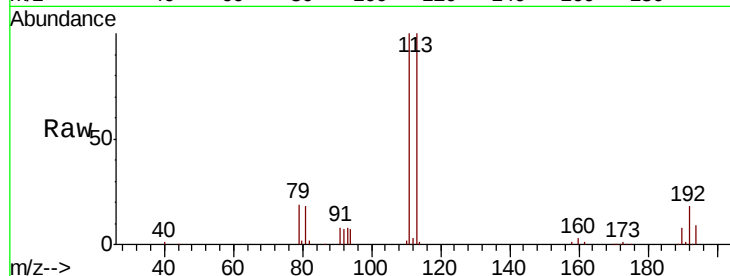
Tot Ion:113 Resp: 81115

Ion Ratio Lower Upper

113 100

111 103.0 81.8 122.8

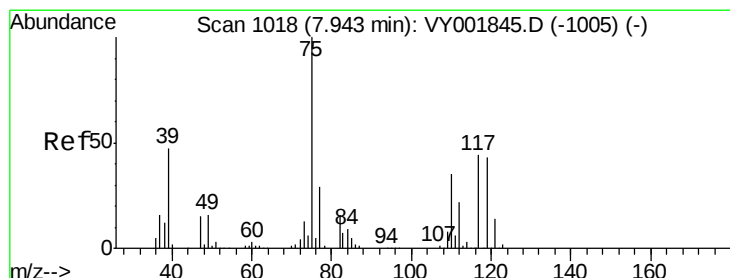
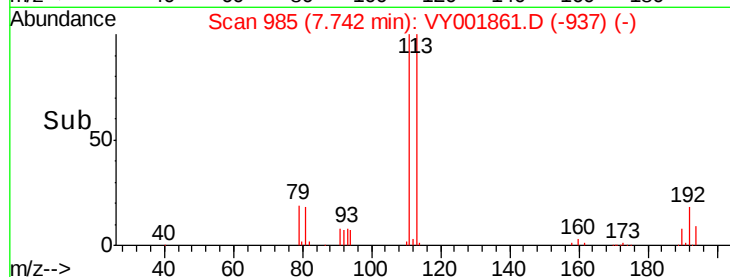
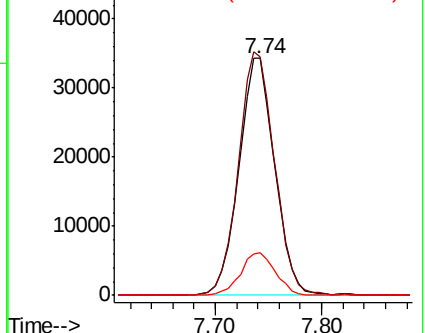
192 17.6 14.2 21.2



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: 4.485 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.13 min

Lab File: VY001861.D

Acq: 04 Mar 2020 18:04

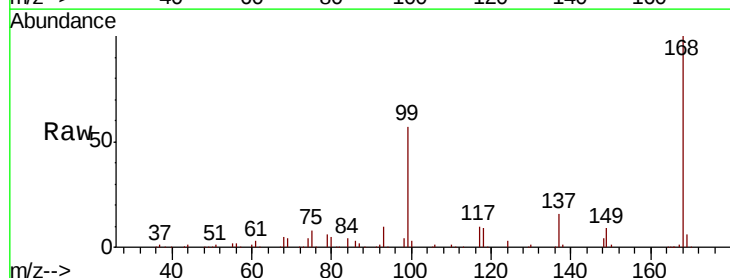
Tgt Ion: 75 Resp: 11990

Ion Ratio Lower Upper

75 100

110 8.5 17.4 52.2#

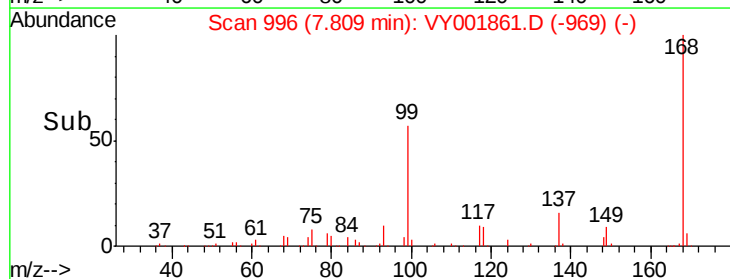
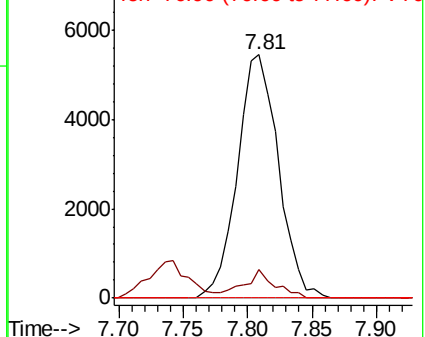
77 0.0 24.2 36.2#

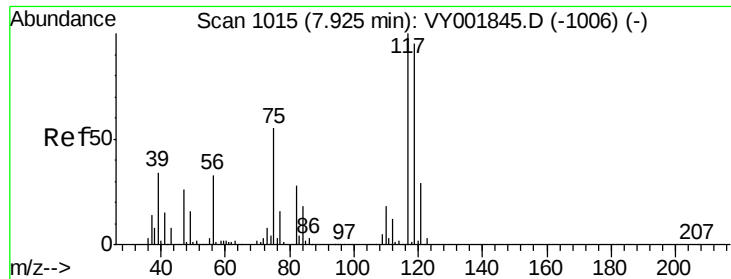


Abundance Ion 74.90 (74.60 to 75.60): VY0

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): VY0





#38

Carbon Tetrachloride

Concen: 6.428 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.12 min

Lab File: VY001861.D

Acq: 04 Mar 2020 18:04

Instrument :

MSVOA\_Y

ClientSampleId :

DN2

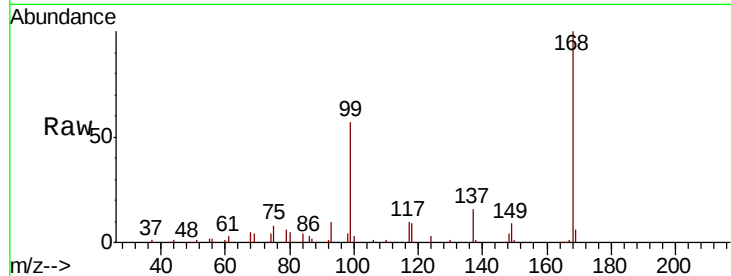
Tot Ion:117 Resp: 14678

Ion Ratio Lower Upper

117 100

119 4.0 76.3 114.5#

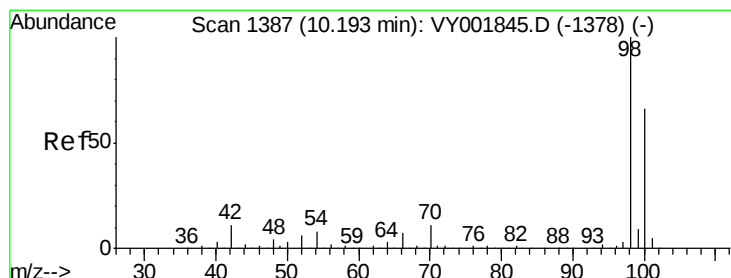
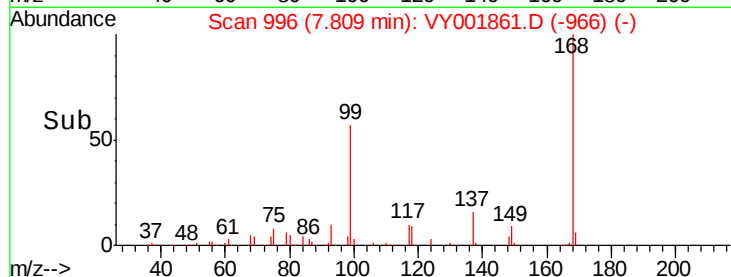
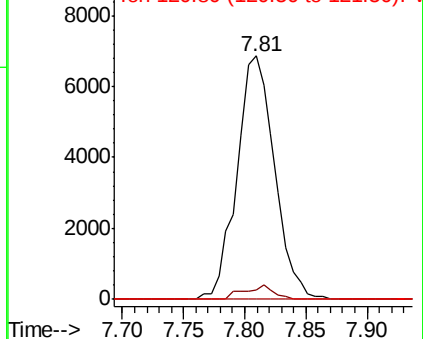
121 0.0 23.5 35.3#



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: 52.082 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.01 min

Lab File: VY001861.D

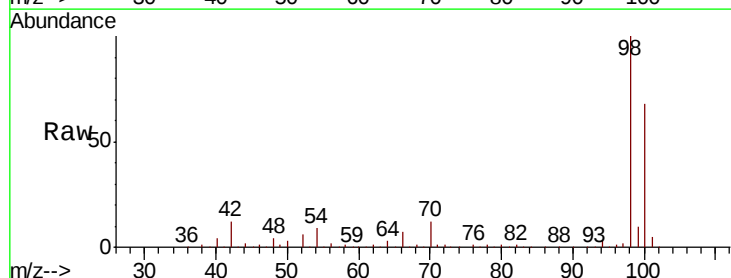
Acq: 04 Mar 2020 18:04

Tgt Ion: 98 Resp: 333140

Ion Ratio Lower Upper

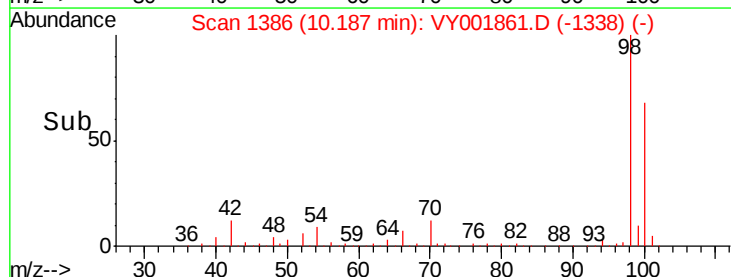
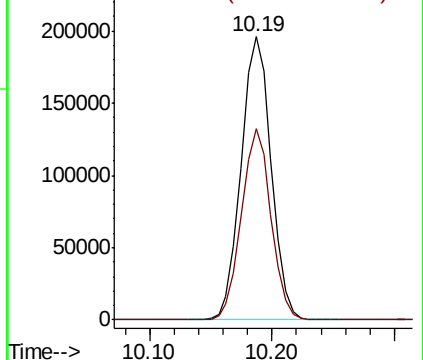
98 100

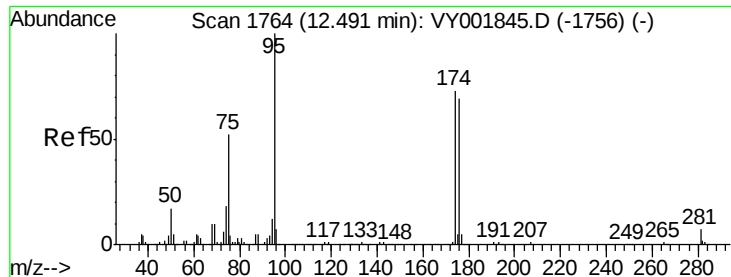
100 66.4 53.0 79.4



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY

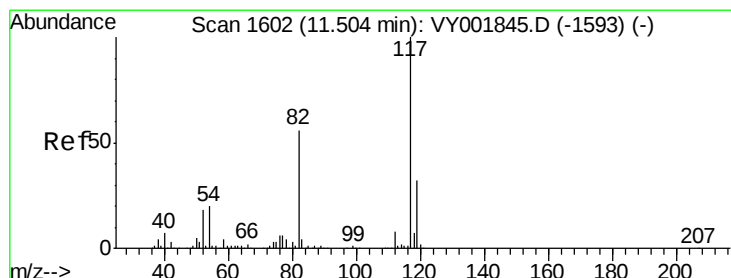
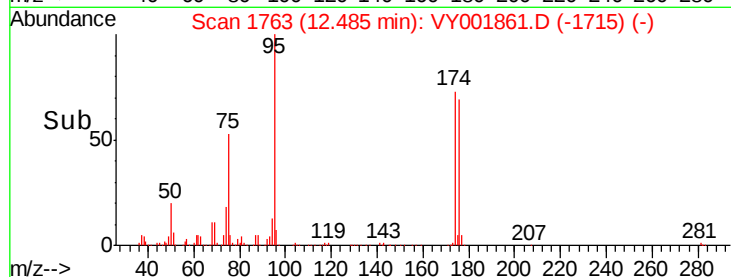
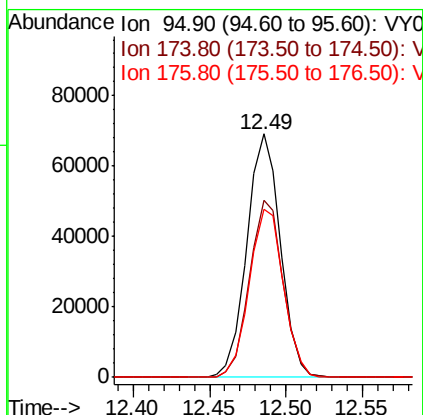
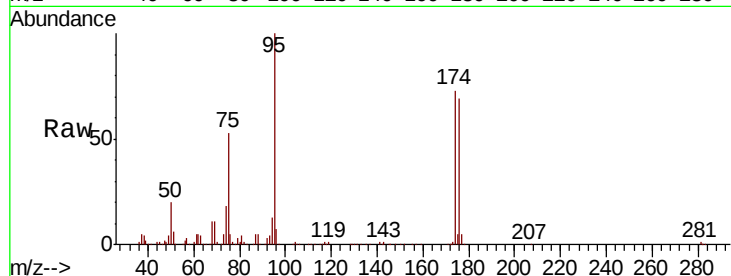




#62  
4-Bromofluorobenzene  
Concen: 47.238 ug/l  
RT: 12.49 min Scan# 1763  
Delta R.T. -0.01 min  
Lab File: VY001861.D  
Acq: 04 Mar 2020 18:04

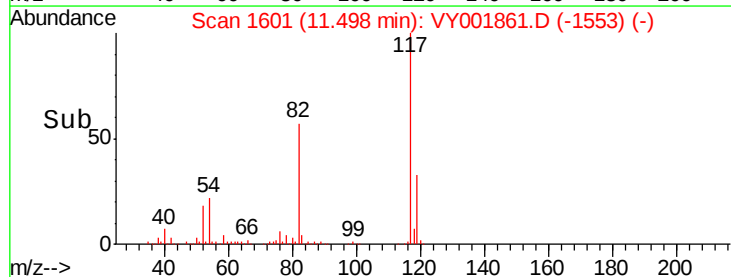
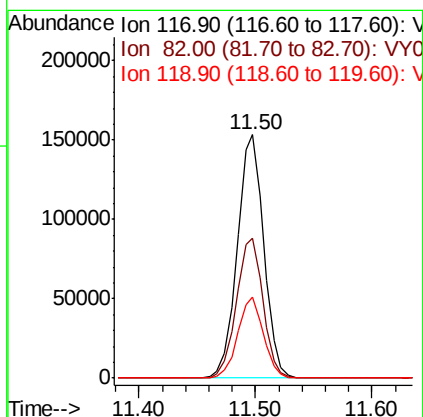
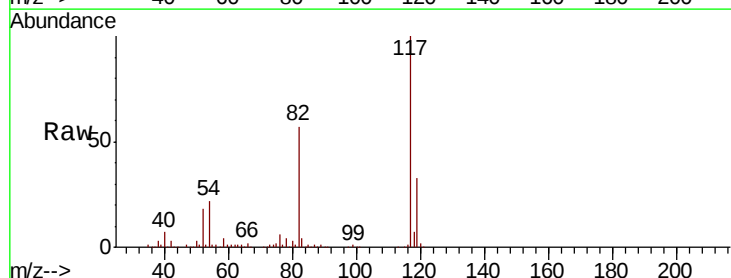
Instrument :  
MSVOA\_Y  
ClientSampleId :  
DN2

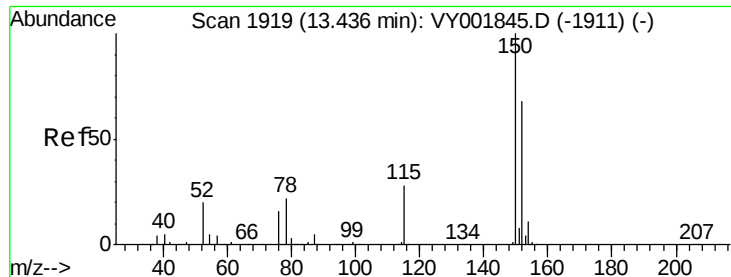
Tot Ion: 95 Resp: 105062  
Ion Ratio Lower Upper  
95 100  
174 73.1 0.0 145.0  
176 71.1 0.0 137.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.01 min  
Lab File: VY001861.D  
Acq: 04 Mar 2020 18:04

Tgt Ion: 117 Resp: 242104  
Ion Ratio Lower Upper  
117 100  
82 57.3 44.5 66.7  
119 33.4 25.7 38.5





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.43 min Scan# 1918

Delta R.T. -0.01 min

Lab File: VY001861.D

Acq: 04 Mar 2020 18:04

Instrument :

MSVOA\_Y

ClientSampleId :

DN2

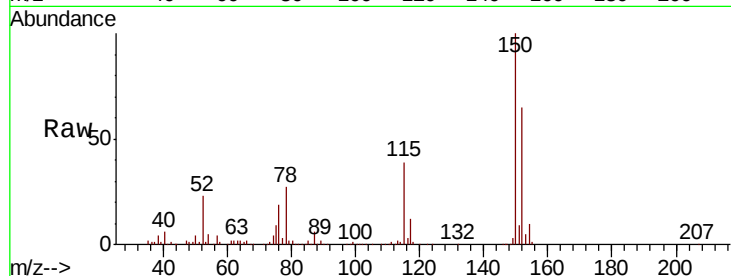
Tot Ion:152 Resp: 95035

Ion Ratio Lower Upper

152 100

115 62.0 29.9 89.7

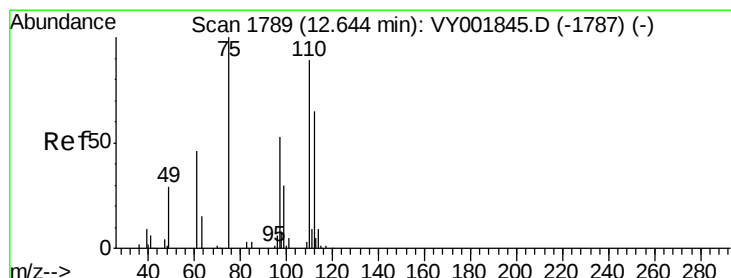
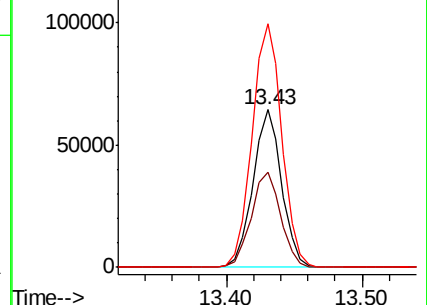
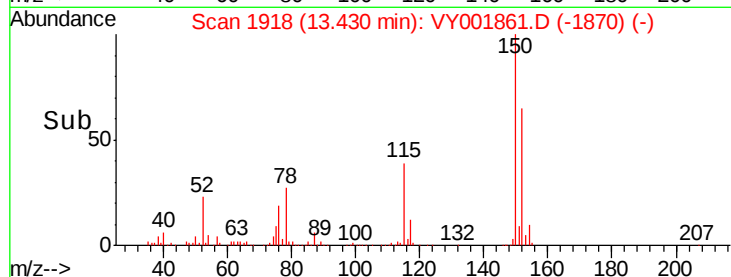
150 160.1 0.0 340.6



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: 47.728 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. -0.16 min

Lab File: VY001861.D

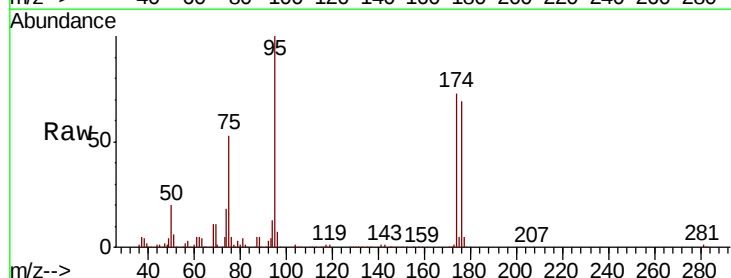
Acq: 04 Mar 2020 18:04

Tgt Ion: 75 Resp: 53821

Ion Ratio Lower Upper

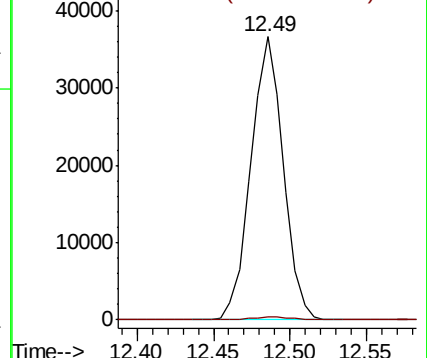
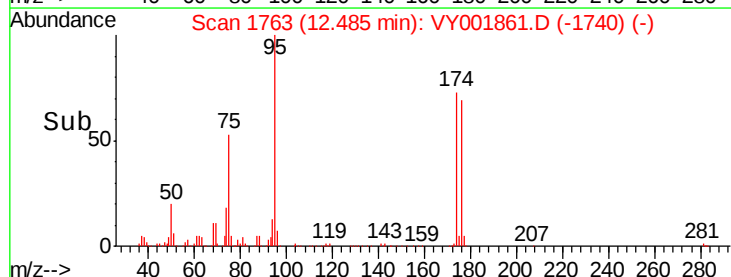
75 100

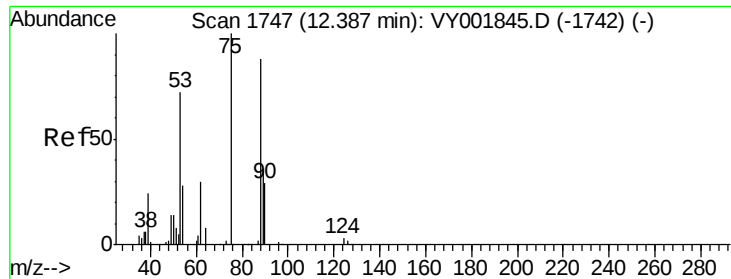
77 1.2 0.0 0.0#



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: 96.409 ug/l

RT: 12.49 min Scan# 1763

Delta R.T. 0.10 min

Lab File: VY001861.D

Acq: 04 Mar 2020 18:04

Instrument :

MSVOA\_Y

ClientSampleId :

DN2

Tot Ion: 75 Resp: 53821

Ion Ratio Lower Upper

75 100

53 0.0 65.4 98.0#

89 0.1 36.0 54.0#

