

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY031920\  
 Data File : VY002016.D  
 Acq On : 19 Mar 2020 13:14  
 Operator : SY/MD  
 Sample : L1978-02  
 Misc : 5.01G/5ML/MSVOA Y/SOIL  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-5A

Quant Time: Mar 20 01:56:03 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      | 7.82  | 168  | 145449   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 280277   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 258591   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 113352   | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.17  | 65   | 87954    | 56.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 113.28% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 82657    | 54.01 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 108.02% |          |
| 50) Toluene-d8              | 10.19 | 98   | 343899   | 53.29 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 106.58% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 117041   | 52.16 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.32% |          |

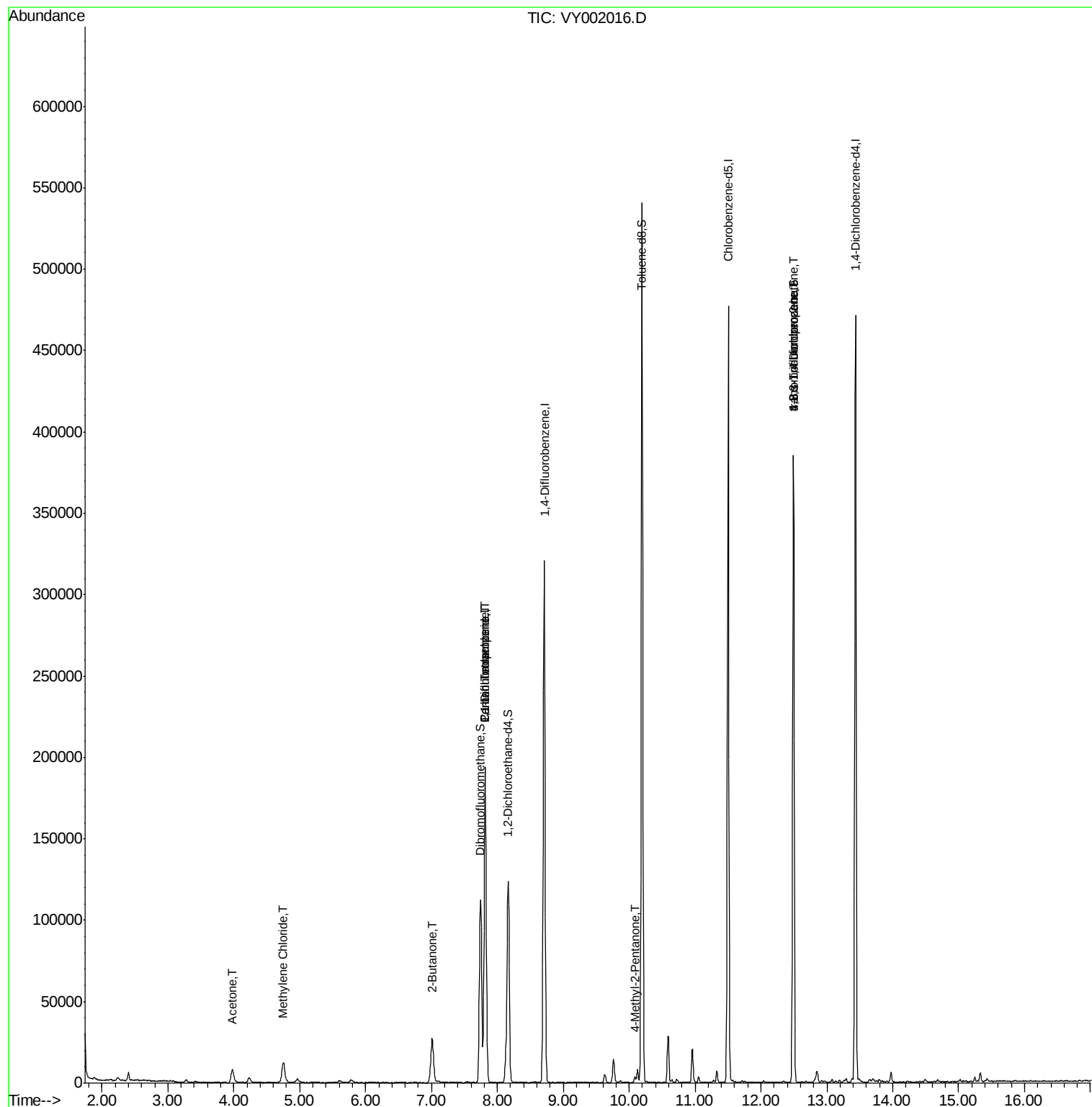
| Target Compounds               | R.T.  | QIon | Response | Conc      | Units  | Qvalue |
|--------------------------------|-------|------|----------|-----------|--------|--------|
| 5) Bromomethane                | 2.68  | 94   | 116      | Below Cal | #      | 62     |
| 11) Tert butyl alcohol         | 4.97  | 59   | 2439     | Below Cal | #      | 74     |
| 16) Acetone                    | 3.98  | 43   | 15379    | 34.005    | ug/l   | 100    |
| 20) Methylene Chloride         | 4.75  | 84   | 8902     | 4.593     | ug/l # | 79     |
| 25) 2-Butanone                 | 7.02  | 43   | 5356     | 7.788     | ug/l   | 94     |
| 36) 1,1-Dichloropropene        | 7.82  | 75   | 11997    | 4.448     | ug/l # | 50     |
| 38) Carbon Tetrachloride       | 7.82  | 117  | 14755    | 6.404     | ug/l # | 16     |
| 51) 4-Methyl-2-Pentanone       | 10.09 | 43   | 2716     | 1.777     | ug/l   | 96     |
| 76) 1,2,3-Trichloropropane     | 12.49 | 75   | 60271    | 44.811    | ug/l # | 100    |
| 81) trans-1,4-Dichloro-2-buten | 12.49 | 75   | 60271    | 90.517    | ug/l # | 17     |

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

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Quant Time: Mar 20 01:56:03 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: 7.82 min Scan# 997

Delta R.T. 0.00 min

Lab File: VY002016.D

Acq: 19 Mar 2020 13:14

Instrument :

MSVOA\_Y

ClientSampled :

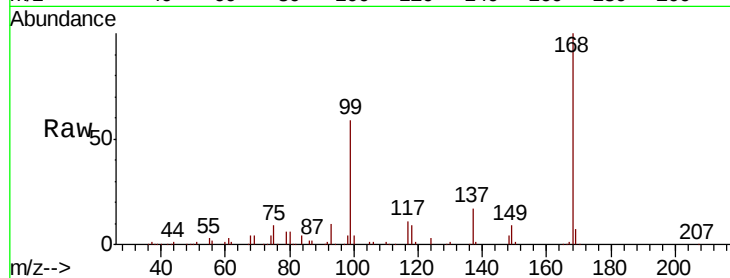
TP-5A

Tot Ion:168 Resp: 145449

Ion Ratio Lower Upper

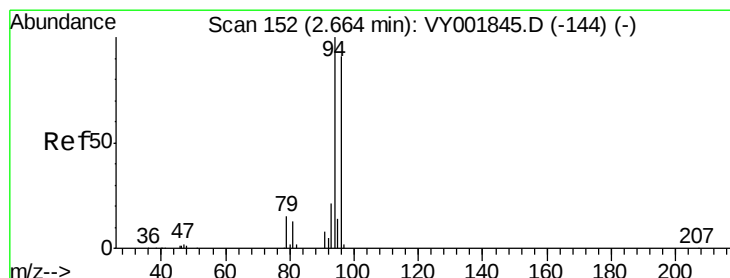
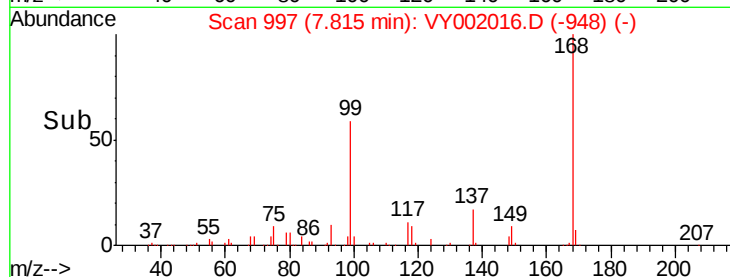
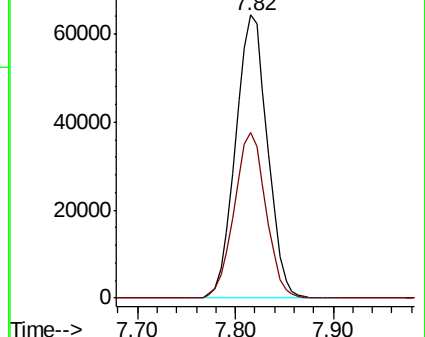
168 100

99 58.6 46.7 70.1



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

Ion 98.90 (98.60 to 99.60): VY001845.D (-986) (-)



#5

Bromomethane

Concen: Below Cal

RT: 2.68 min Scan# 155

Delta R.T. 0.02 min

Lab File: VY002016.D

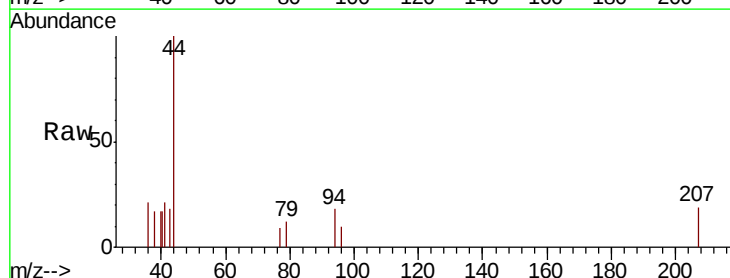
Acq: 19 Mar 2020 13:14

Tgt Ion: 94 Resp: 116

Ion Ratio Lower Upper

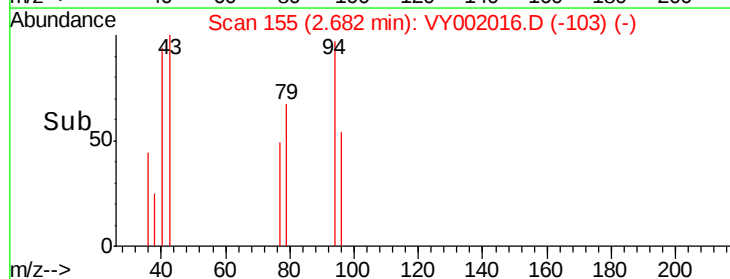
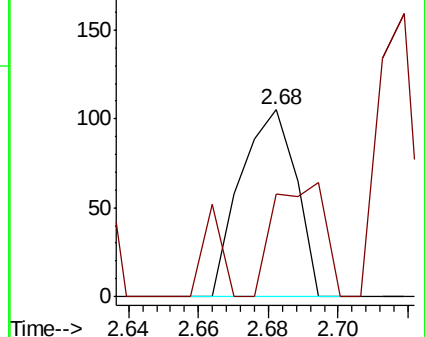
94 100

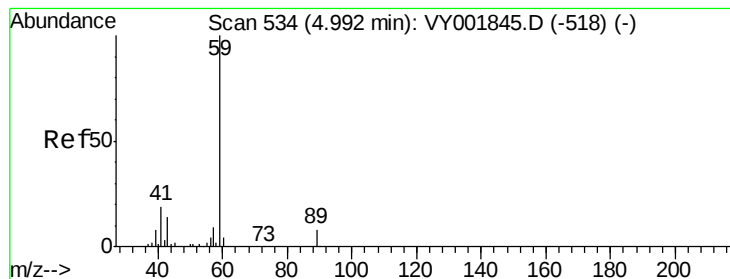
96 55.2 73.2 109.8#



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

Ion 95.90 (95.60 to 96.60): VY001845.D (-144) (-)



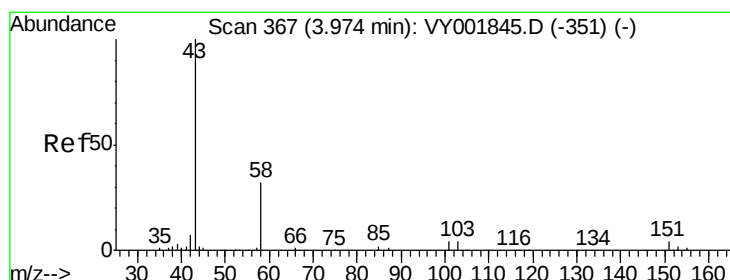
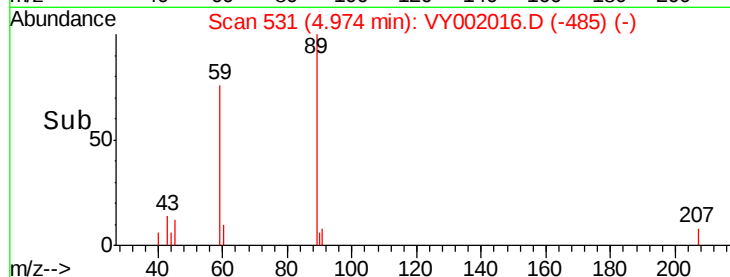
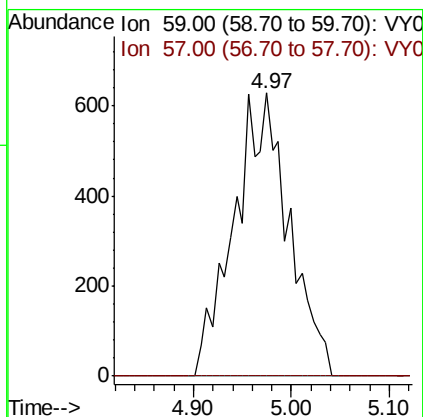
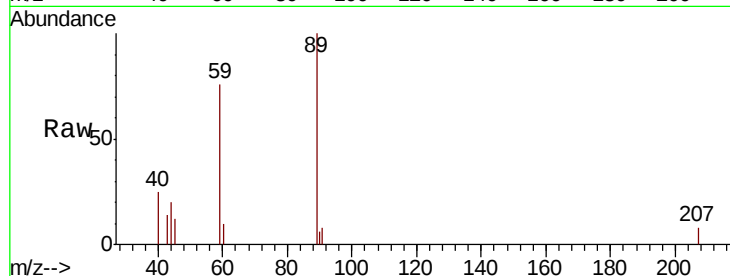


#11

Tert butyl alcohol  
 Concen: Below Cal  
 RT: 4.97 min Scan# 531  
 Delta R.T. -0.02 min  
 Lab File: VY002016.D  
 Acq: 19 Mar 2020 13:14

Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 TP-5A

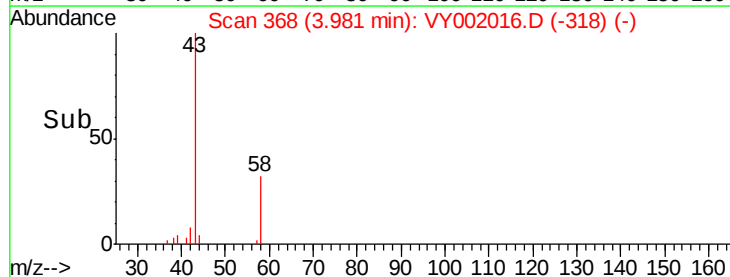
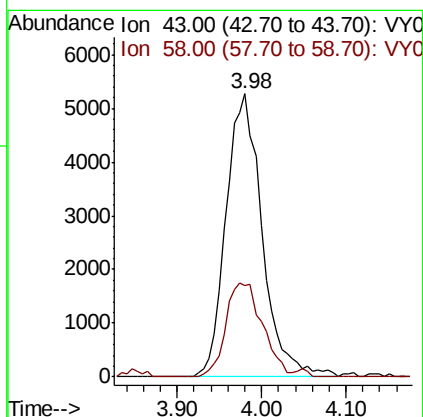
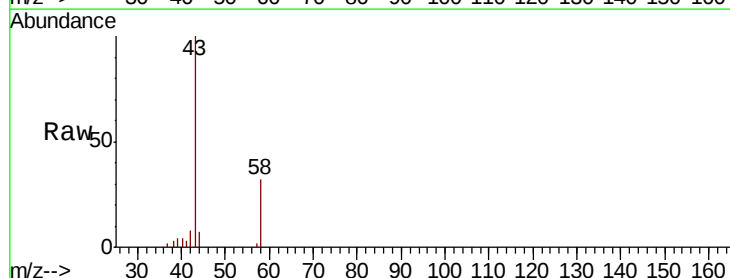
Tot Ion: 59 Resp: 2439  
 Ion Ratio Lower Upper  
 59 100  
 57 0.0 7.4 11.2#

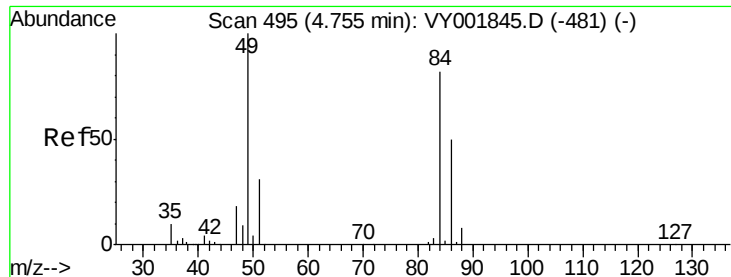


#16

Acetone  
 Concen: 34.005 ug/l  
 RT: 3.98 min Scan# 368  
 Delta R.T. 0.01 min  
 Lab File: VY002016.D  
 Acq: 19 Mar 2020 13:14

Tgt Ion: 43 Resp: 15379  
 Ion Ratio Lower Upper  
 43 100  
 58 32.1 25.9 38.9

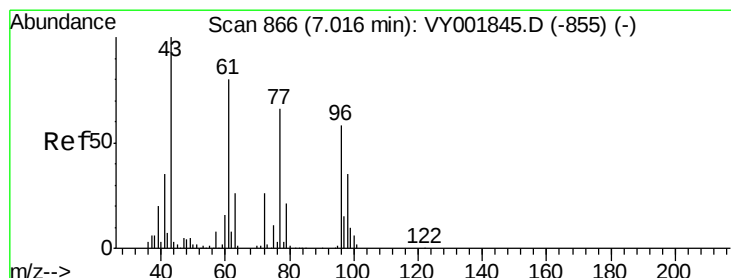
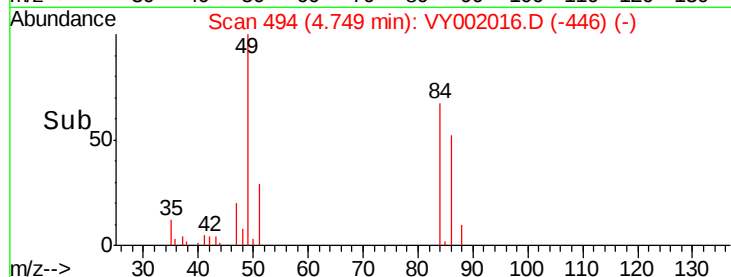
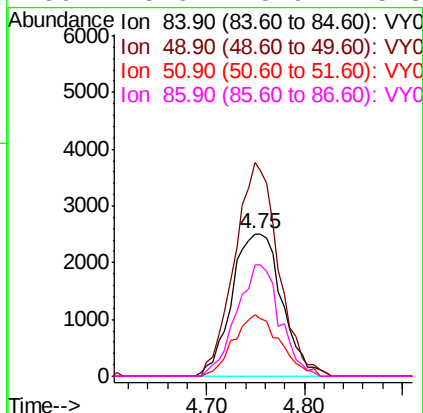
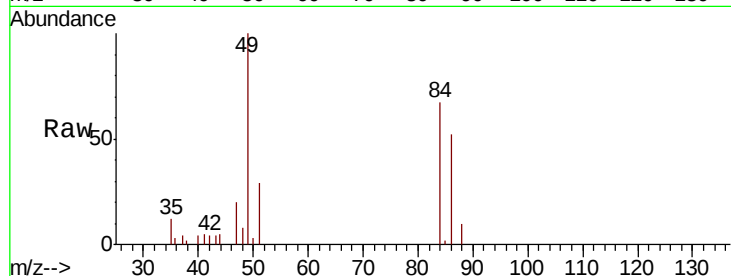




#20  
Methvlene Chloride  
Concen: 4.593 ug/l  
RT: 4.75 min Scan# 494  
Delta R.T. -0.01 min  
Lab File: VY002016.D  
Acq: 19 Mar 2020 13:14

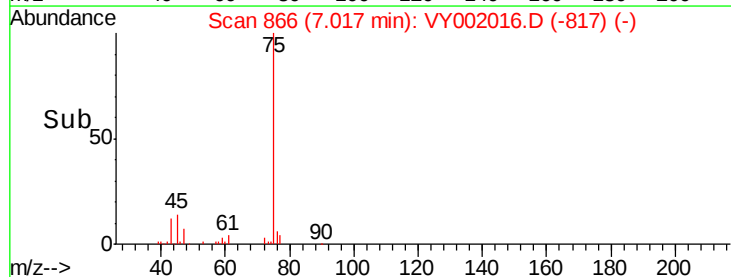
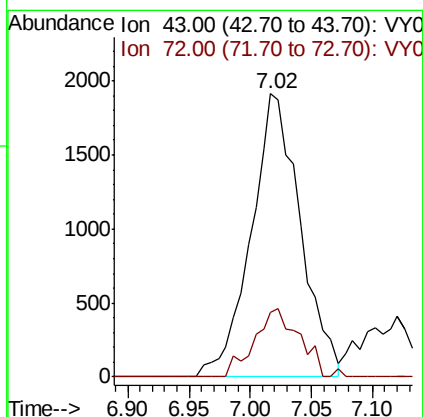
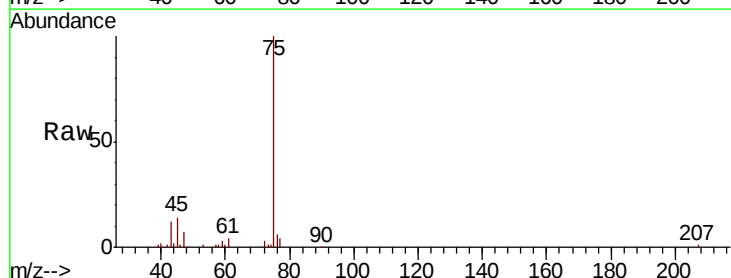
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-5A

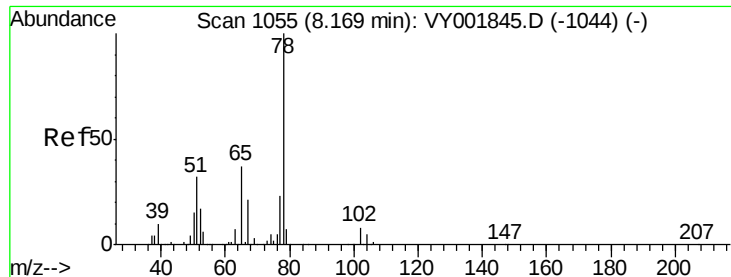
Tot Ion: 84 Resp: 8902  
Ion Ratio Lower Upper  
84 100  
49 150.1 98.2 147.2#  
51 43.3 30.2 45.2  
86 78.6 48.9 73.3#



#25  
2-Butanone  
Concen: 7.788 ug/l  
RT: 7.02 min Scan# 866  
Delta R.T. 0.00 min  
Lab File: VY002016.D  
Acq: 19 Mar 2020 13:14

Tgt Ion: 43 Resp: 5356  
Ion Ratio Lower Upper  
43 100  
72 22.9 20.9 31.3

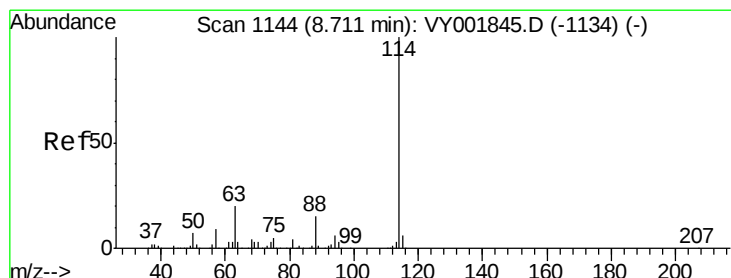
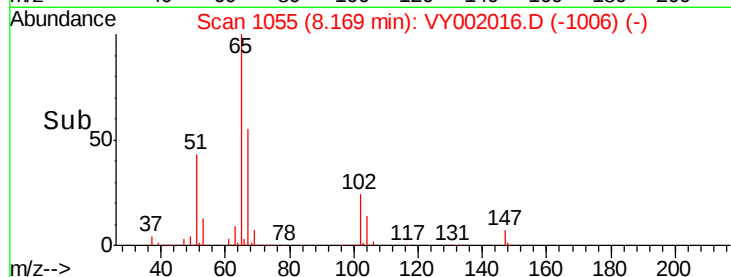
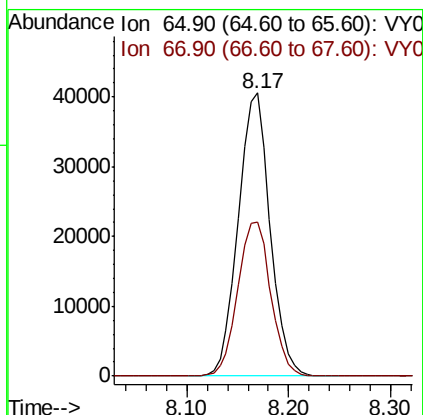
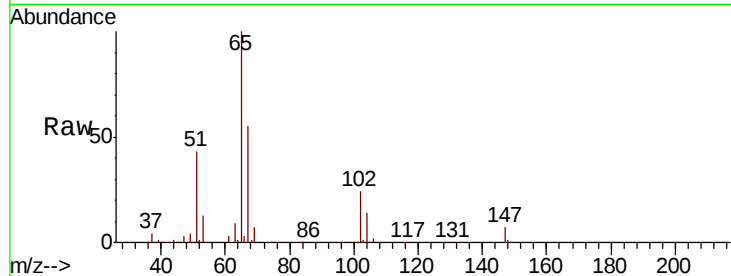




#33  
 1,2-Dichloroethane-d4  
 Concen: 56.643 ug/l  
 RT: 8.17 min Scan# 1055  
 Delta R.T. 0.00 min  
 Lab File: VY002016.D  
 Acq: 19 Mar 2020 13:14

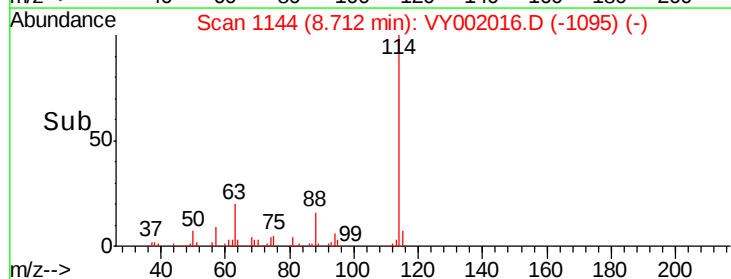
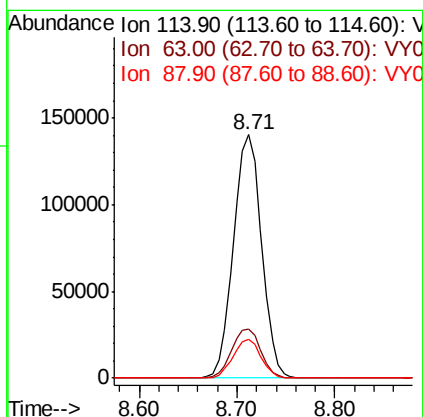
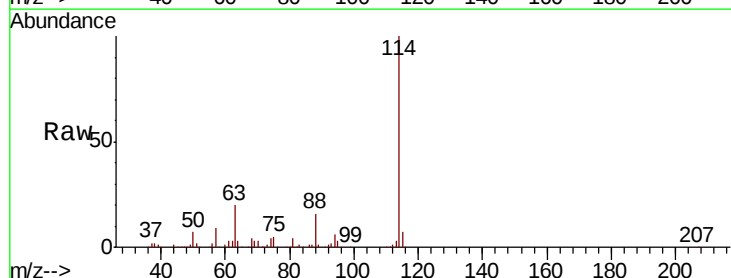
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-5A

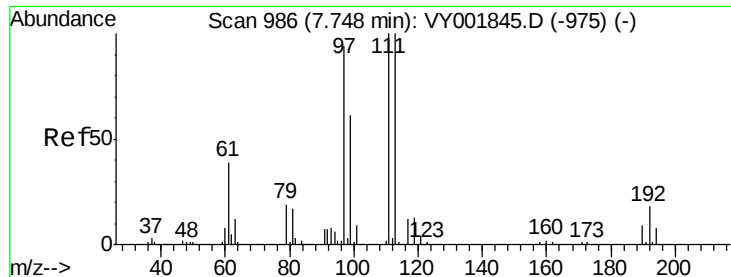
Tot Ion: 65 Resp: 87954  
 Ion Ratio Lower Upper  
 65 100  
 67 56.5 0.0 110.8



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1144  
 Delta R.T. 0.00 min  
 Lab File: VY002016.D  
 Acq: 19 Mar 2020 13:14

Tgt Ion: 114 Resp: 280277  
 Ion Ratio Lower Upper  
 114 100  
 63 20.2 0.0 39.4  
 88 15.8 0.0 30.4

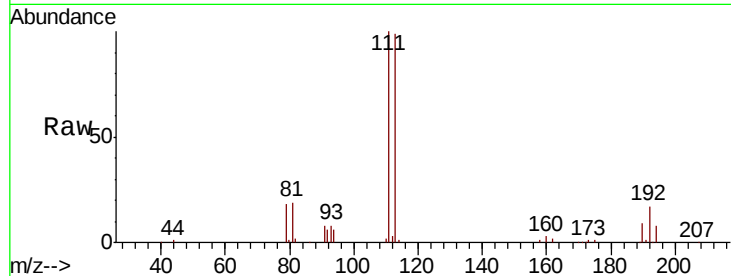




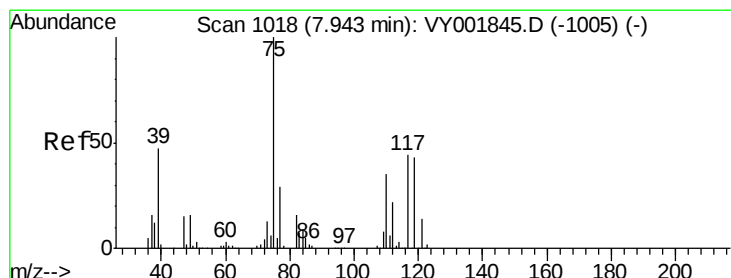
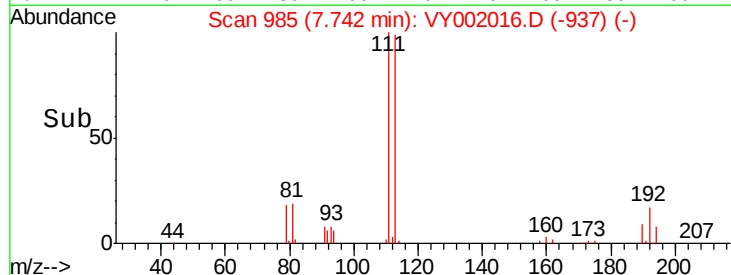
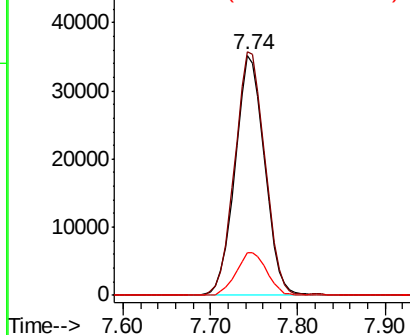
#35  
 Dibromofluoromethane  
 Concen: 54.009 ug/l  
 RT: 7.74 min Scan# 985  
 Delta R.T. -0.01 min  
 Lab File: VY002016.D  
 Acq: 19 Mar 2020 13:14

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 TP-5A

Tot Ion:113 Resp: 82657  
 Ion Ratio Lower Upper  
 113 100  
 111 103.5 81.8 122.8  
 192 18.2 14.2 21.2

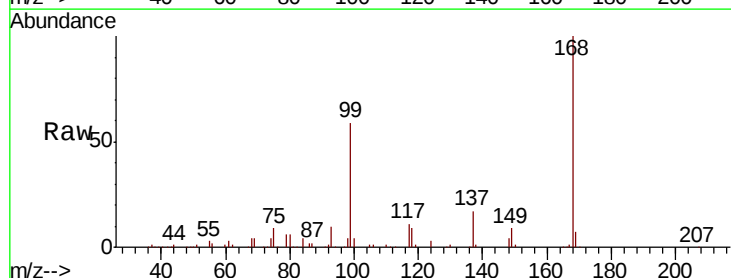


Abundance Ion 112.80 (112.50 to 113.50): V  
 Ion 110.80 (110.50 to 111.50): V  
 Ion 191.70 (191.40 to 192.40): V

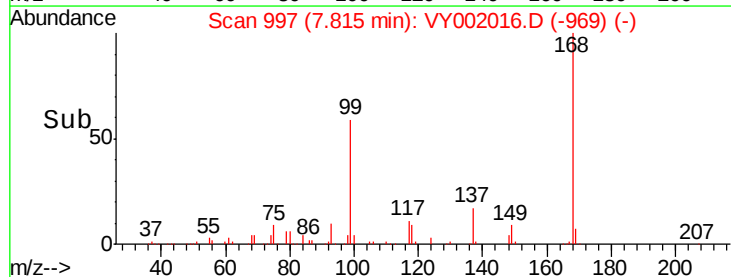
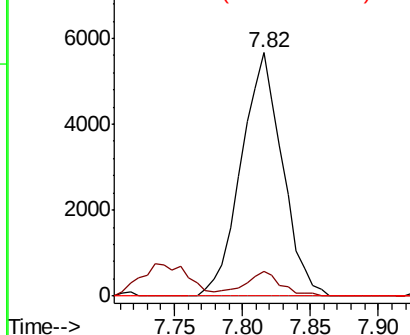


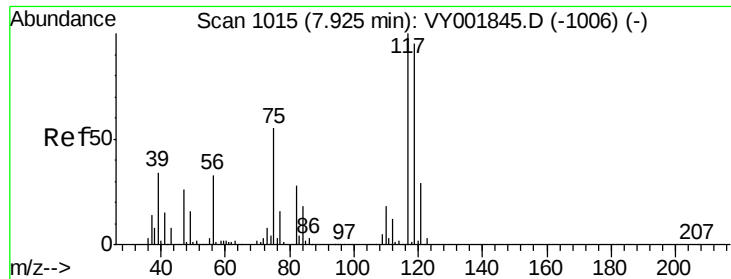
#36  
 1,1-Dichloropropene  
 Concen: 4.448 ug/l  
 RT: 7.82 min Scan# 997  
 Delta R.T. -0.13 min  
 Lab File: VY002016.D  
 Acq: 19 Mar 2020 13:14

Tgt Ion: 75 Resp: 11997  
 Ion Ratio Lower Upper  
 75 100  
 110 9.0 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

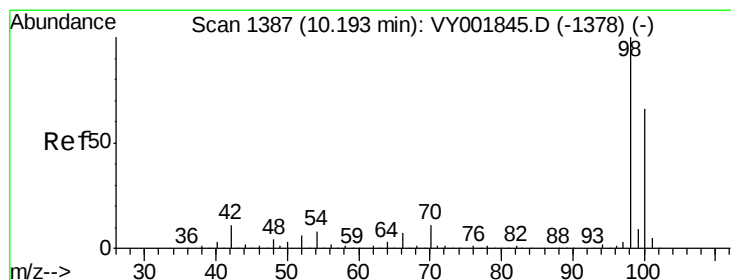
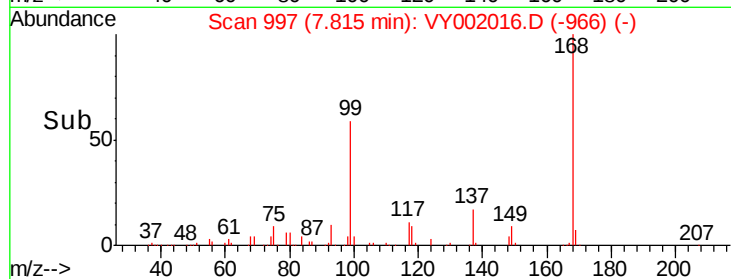
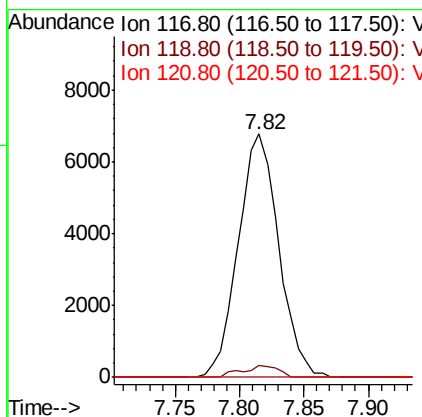
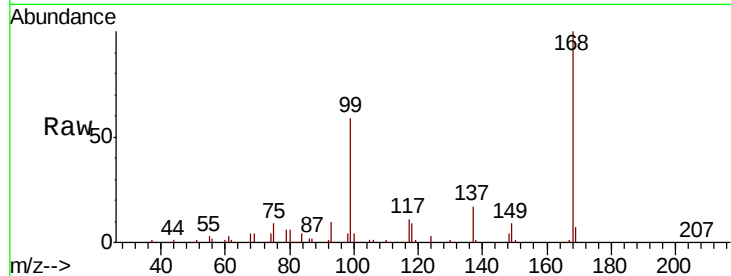




#38  
Carbon Tetrachloride  
Concen: 6.404 ug/l  
RT: 7.82 min Scan# 997  
Delta R.T. -0.11 min  
Lab File: VY002016.D  
Acq: 19 Mar 2020 13:14

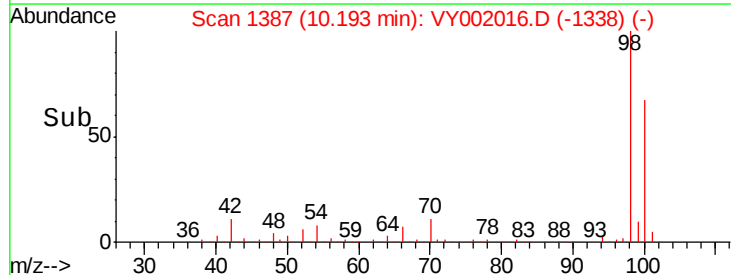
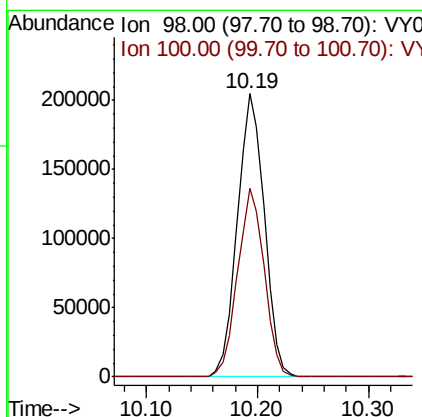
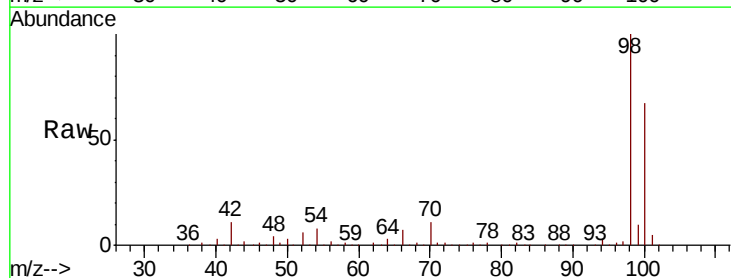
Instrument :  
MSVOA\_Y  
ClientSampled :  
TP-5A

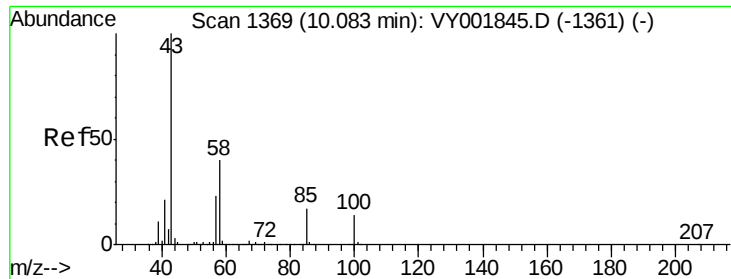
Tot Ion:117 Resp: 14755  
Ion Ratio Lower Upper  
117 100  
119 5.1 76.3 114.5#  
121 0.0 23.5 35.3#



#50  
Toluene-d8  
Concen: 53.288 ug/l  
RT: 10.19 min Scan# 1387  
Delta R.T. 0.00 min  
Lab File: VY002016.D  
Acq: 19 Mar 2020 13:14

Tgt Ion: 98 Resp: 343899  
Ion Ratio Lower Upper  
98 100  
100 65.7 53.0 79.4





#51

4-Methyl-2-Pentanone

Concen: 1.777 ug/l

RT: 10.09 min Scan# 1370

Delta R.T. 0.01 min

Lab File: VY002016.D

Acq: 19 Mar 2020 13:14

Instrument :

MSVOA\_Y

ClientSampleId :

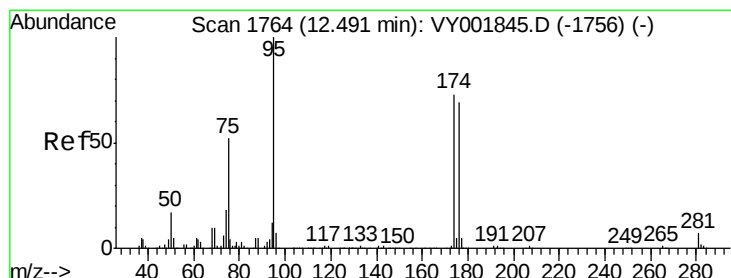
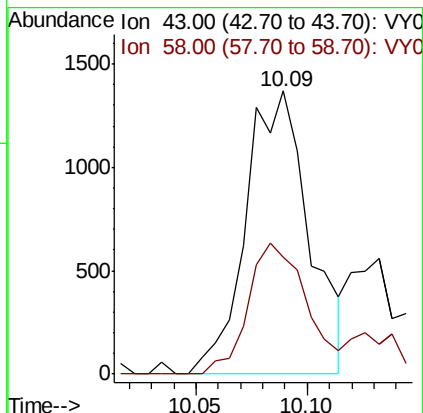
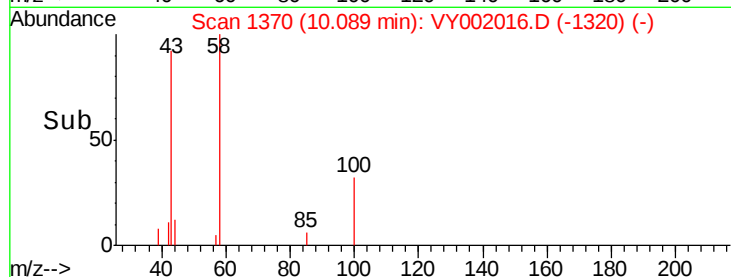
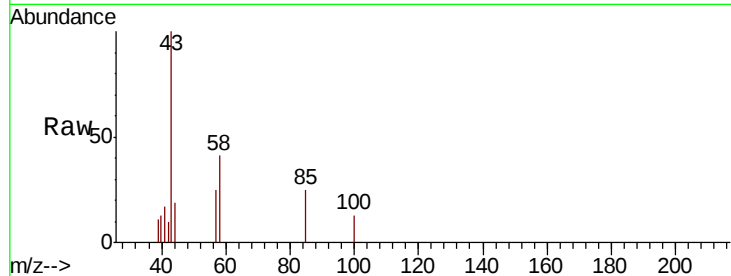
TP-5A

Tot Ion: 43 Resp: 2716

Ion Ratio Lower Upper

43 100

58 42.7 32.0 48.0



#62

4-Bromofluorobenzene

Concen: 52.157 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.00 min

Lab File: VY002016.D

Acq: 19 Mar 2020 13:14

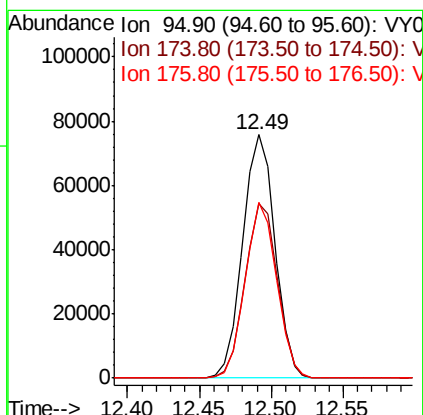
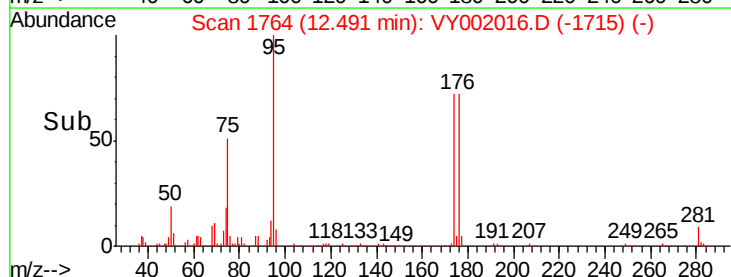
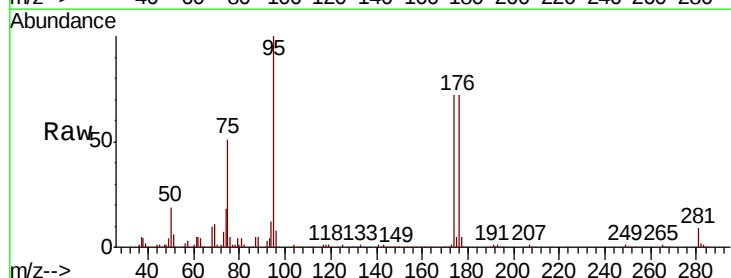
Tgt Ion: 95 Resp: 117041

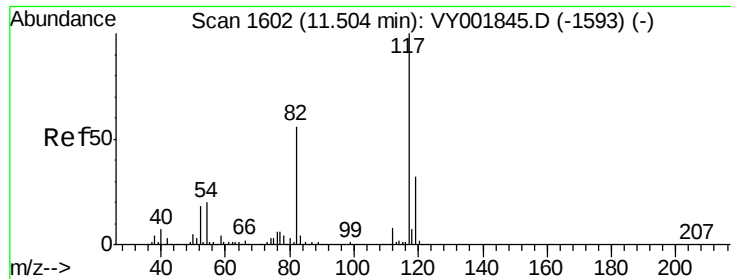
Ion Ratio Lower Upper

95 100

174 72.4 0.0 145.0

176 70.7 0.0 137.4

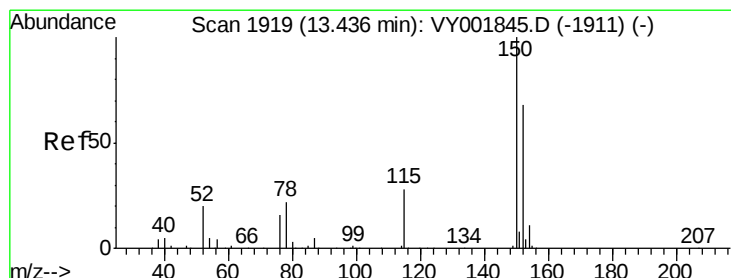
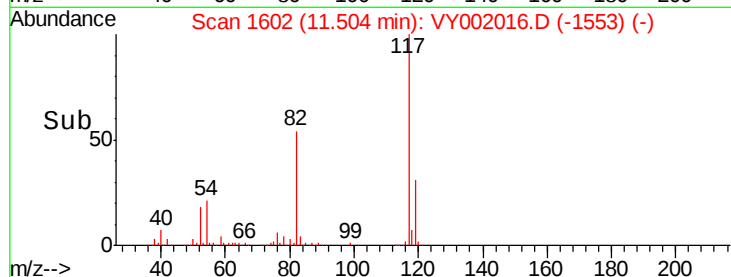
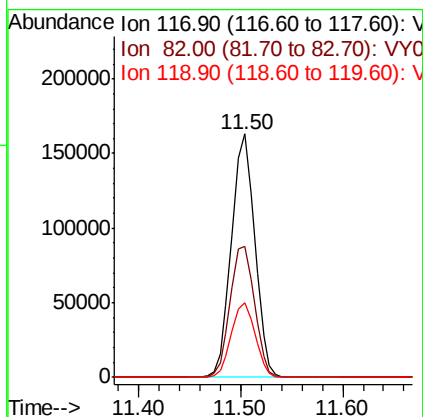
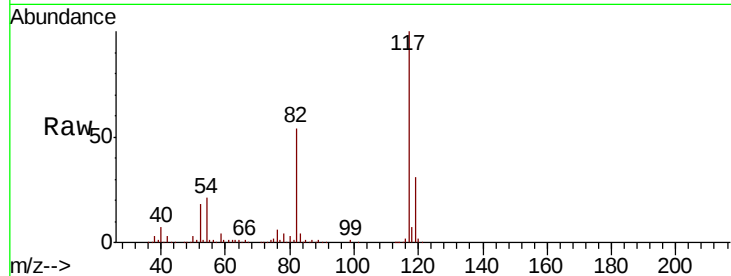




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1602  
Delta R.T. 0.00 min  
Lab File: VY002016.D  
Acq: 19 Mar 2020 13:14

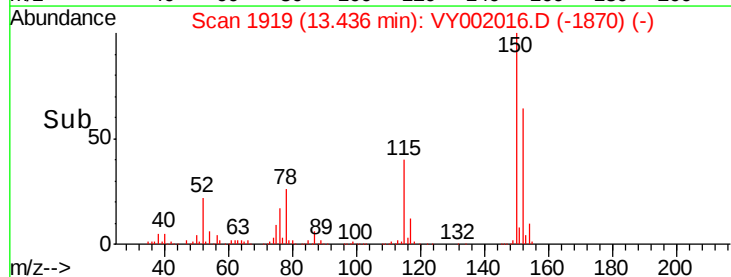
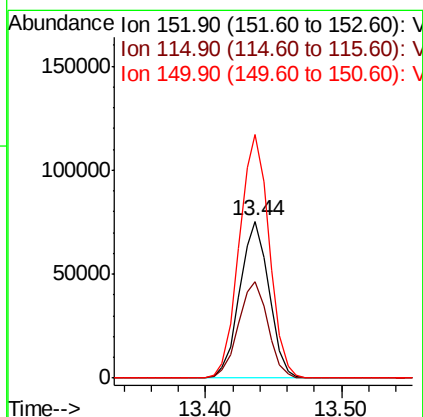
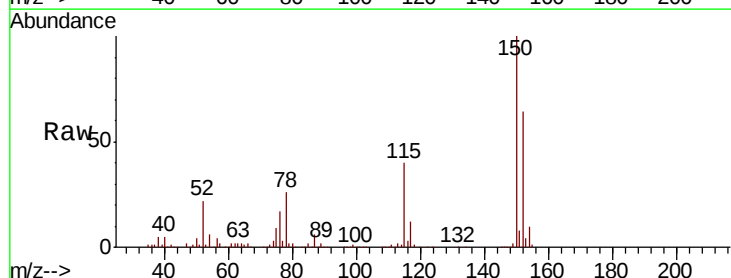
Instrument :  
MSVOA\_Y  
ClientSampleId :  
TP-5A

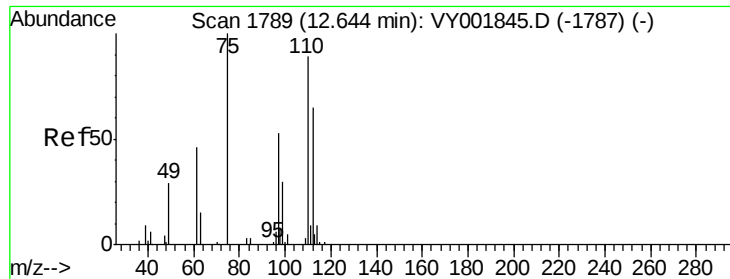
Tot Ion:117 Resp: 258591  
Ion Ratio Lower Upper  
117 100  
82 53.8 44.5 66.7  
119 30.7 25.7 38.5



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.44 min Scan# 1919  
Delta R.T. 0.00 min  
Lab File: VY002016.D  
Acq: 19 Mar 2020 13:14

Tgt Ion:152 Resp: 113352  
Ion Ratio Lower Upper  
152 100  
115 61.9 29.9 89.7  
150 158.0 0.0 340.6





#76

1,2,3-Trichloropropane

Concen: 44.811 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.15 min

Lab File: VY002016.D

Acq: 19 Mar 2020 13:14

Instrument :

MSVOA\_Y

ClientSampleId :

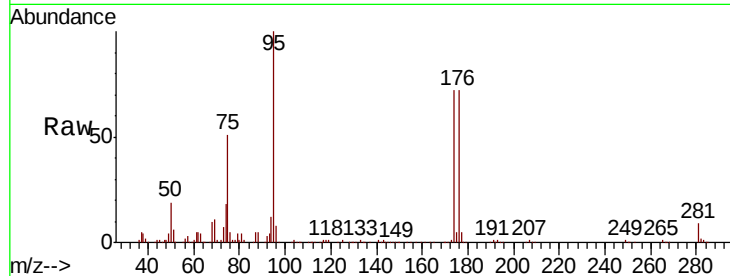
TP-5A

Tot Ion: 75 Resp: 60271

Ion Ratio Lower Upper

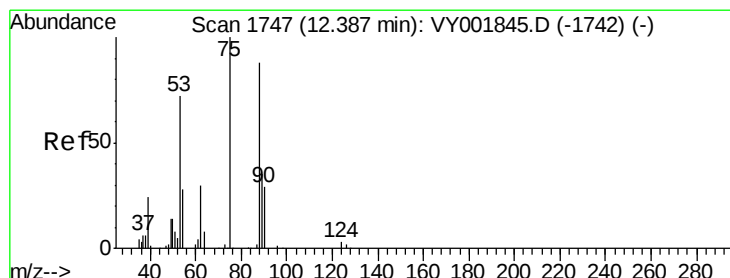
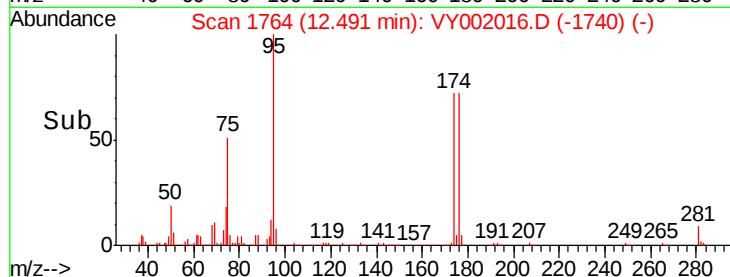
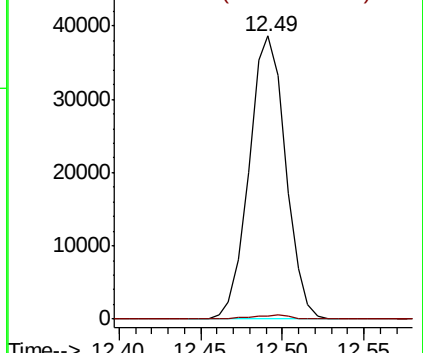
75 100

77 1.5 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: 90.517 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. 0.10 min

Lab File: VY002016.D

Acq: 19 Mar 2020 13:14

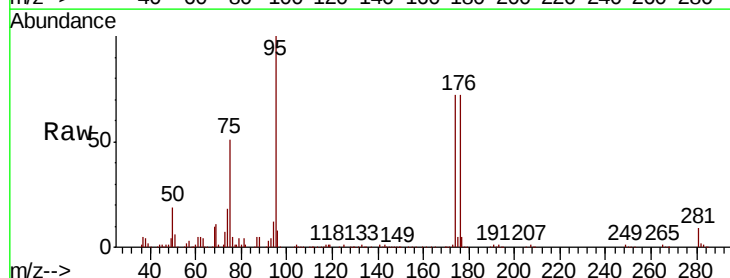
Tgt Ion: 75 Resp: 60271

Ion Ratio Lower Upper

75 100

53 0.0 65.4 98.0#

89 0.1 36.0 54.0#



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

