

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY050820\  
 Data File : VY002642.D  
 Acq On : 08 May 2020 14:59  
 Operator : SY/MD  
 Sample : L2554-03  
 Misc : 3.97G/5ML/MSVOA Y/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 DRUM-1-1

Quant Time: May 09 04:45:01 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
 Quant Title : SW846 8260  
 QLast Update : Mon May 04 12:22:08 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 329593   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 511755   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 453399   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 200229   | 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   | 136806   | 49.37 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 98.74%  |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 149191   | 50.98 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 101.96% |          |
| 50) Toluene-d8              | 10.19 | 98   | 594814   | 52.04 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 104.08% |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 187452   | 48.33 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 96.66%  |          |

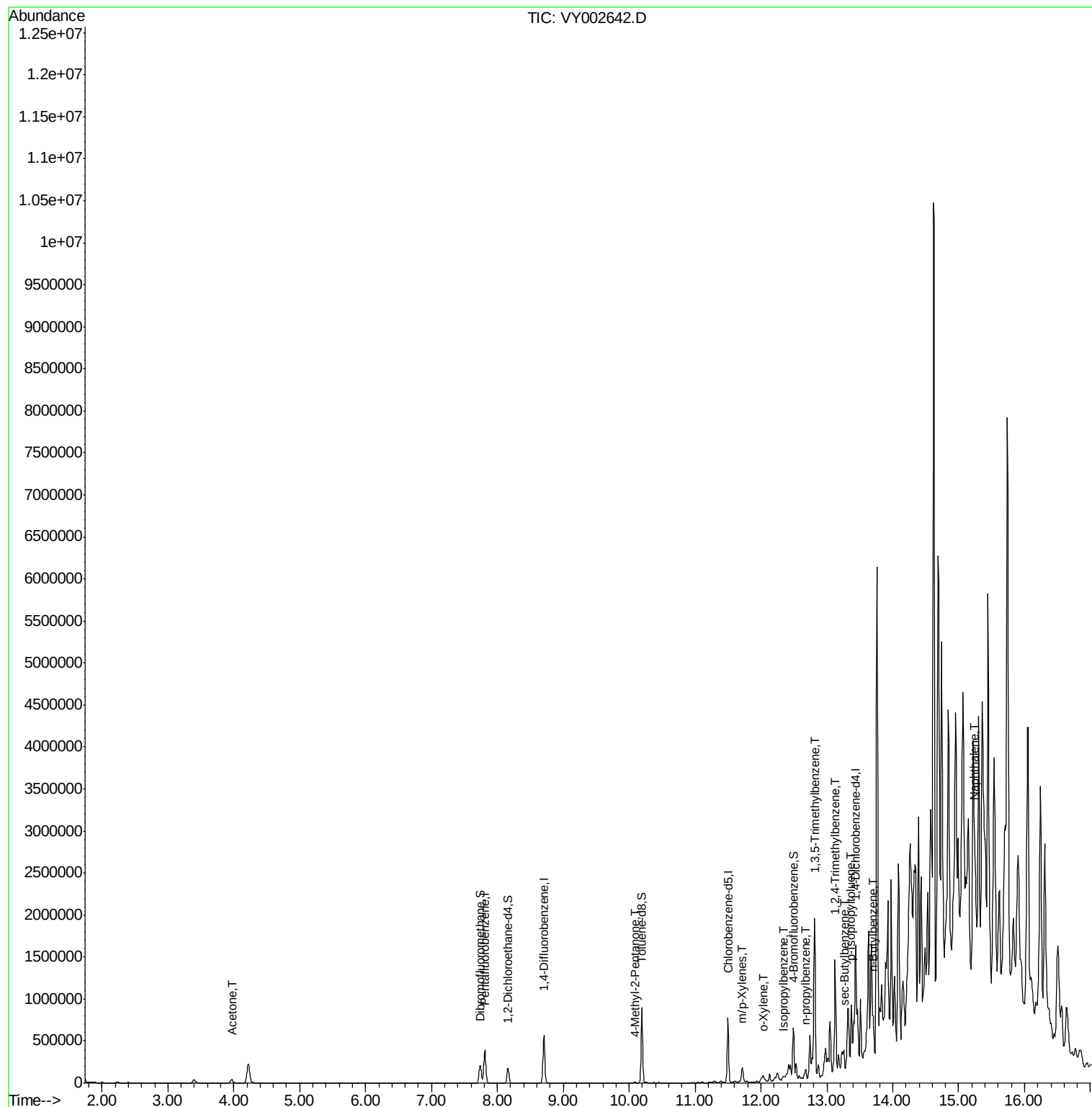
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                | 3.97  | 43   | 68776    | 120.252 | ug/l   | 89     |
| 51) 4-Methyl-2-Pentanone   | 10.08 | 43   | 8057     | 3.782   | ug/l   | 99     |
| 68) m/p-Xylenes            | 11.71 | 106  | 20077    | 3.427   | ug/l   | 99     |
| 69) o-Xylene               | 12.04 | 106  | 16236    | 2.960   | ug/l   | 96     |
| 73) Isopropylbenzene       | 12.34 | 105  | 17070    | 1.315   | ug/l   | 94     |
| 78) n-propylbenzene        | 12.68 | 91   | 88198    | 5.857   | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 12.82 | 105  | 155834   | 14.487  | ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene | 13.13 | 105  | 739703   | 69.000  | ug/l   | 99     |
| 85) sec-Butylbenzene       | 13.26 | 105  | 99610    | 7.611   | ug/l   | 89     |
| 86) p-Isopropyltoluene     | 13.38 | 119  | 77607    | 6.329   | ug/l   | 99     |
| 89) n-Butylbenzene         | 13.70 | 91   | 208384   | 18.666  | ug/l # | 75     |
| 95) Naphthalene            | 15.25 | 128  | 512005   | 70.604  | ug/l # | 89     |

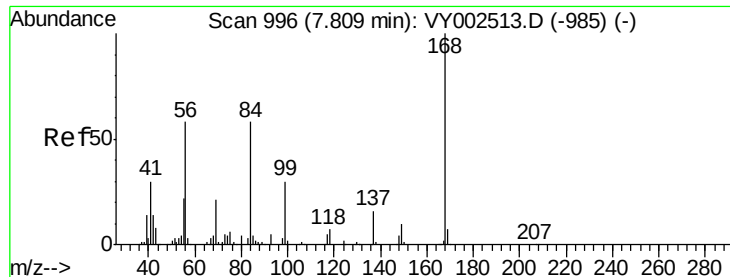
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: May 09 04:45:01 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y043020S.M  
Quant Title : SW846 8260  
QLast Update : Mon May 04 12:22:08 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.81 min Scan# 996

Delta R.T. -0.00 min

Lab File: VY002642.D

Acq: 08 May 2020 14:59

Instrument :

MSVOA\_Y

ClientSampleId :

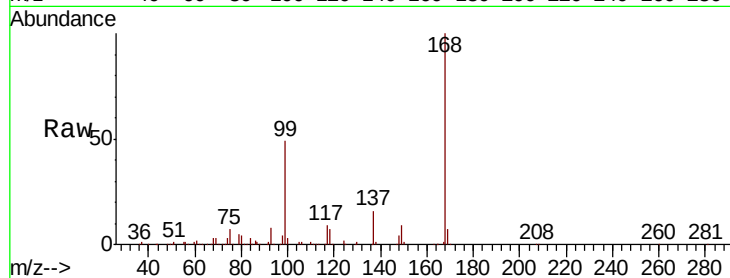
DRUM-1-1

Tot Ion:168 Resp: 329593

Ion Ratio Lower Upper

168 100

99 49.4 39.2 58.8



Abundance Ion 167.90 (167.60 to 168.60): VY002513.D (-985) (-)

Ion 98.90 (98.60 to 99.60): VY002513.D (-985) (-)

7.81

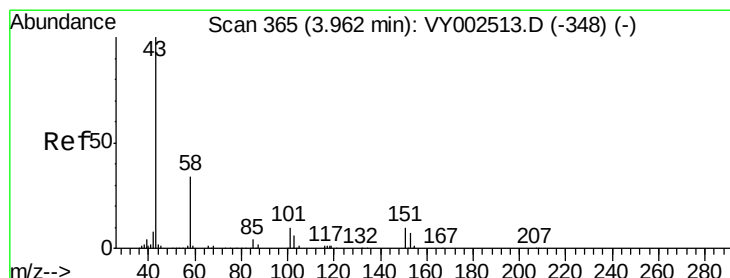
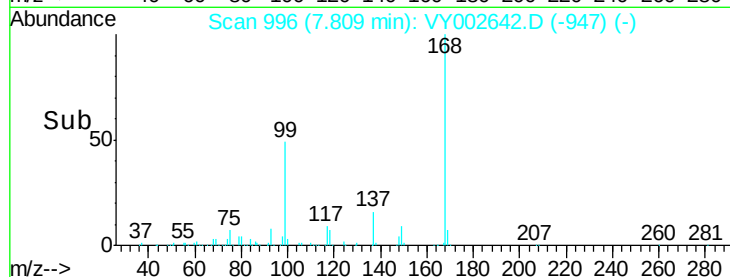
150000

100000

50000

0

Time-->



#16

Acetone

Concen: 120.252 ug/l

RT: 3.97 min Scan# 366

Delta R.T. 0.01 min

Lab File: VY002642.D

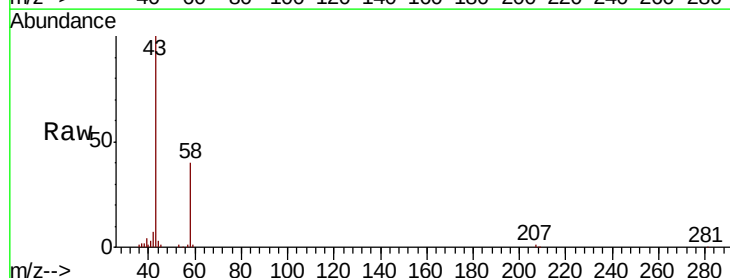
Acq: 08 May 2020 14:59

Tgt Ion: 43 Resp: 68776

Ion Ratio Lower Upper

43 100

58 39.8 26.9 40.3



Abundance Ion 43.00 (42.70 to 43.70): VY002513.D (-348) (-)

Ion 58.00 (57.70 to 58.70): VY002513.D (-348) (-)

3.97

25000

20000

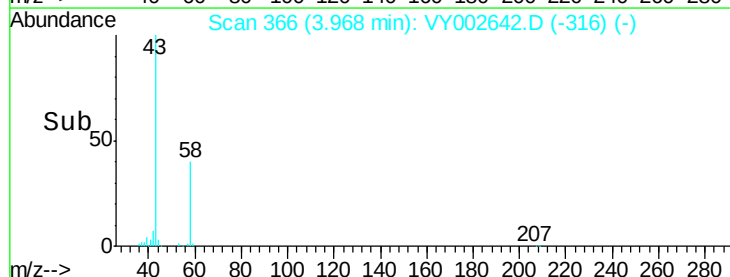
15000

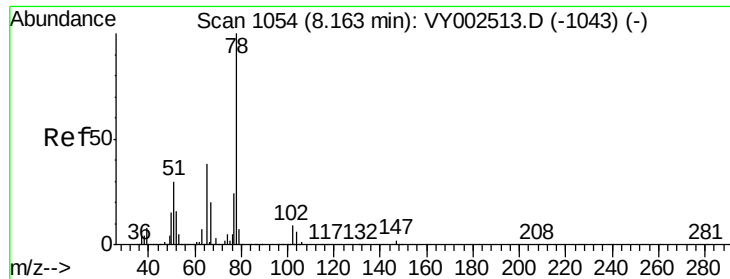
10000

5000

0

Time-->

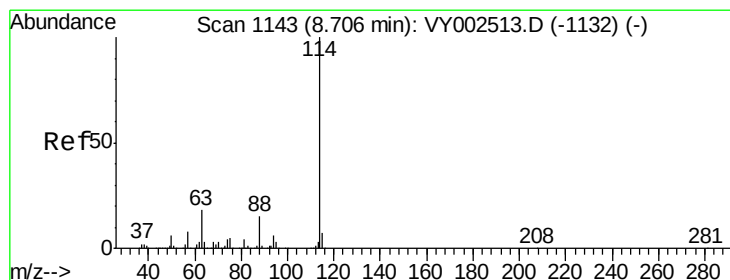
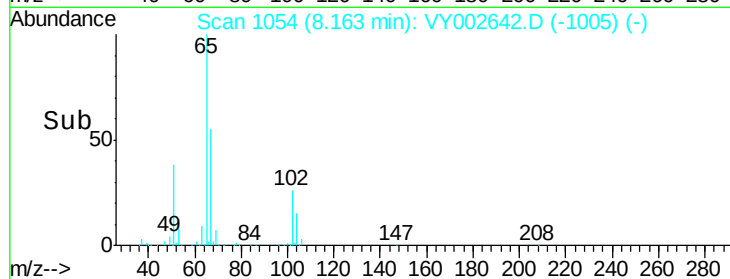
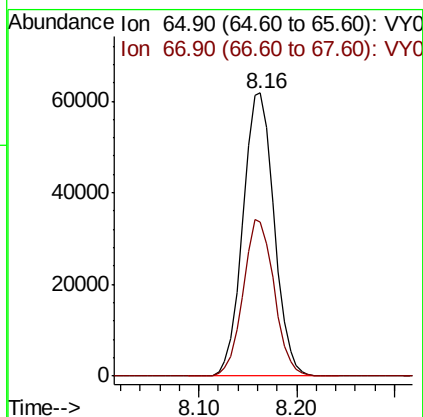
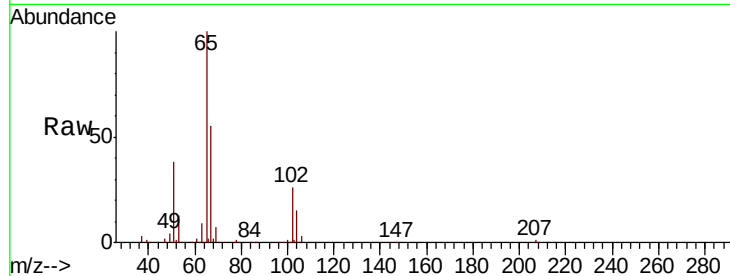




#33  
 1,2-Dichloroethane-d4  
 Concen: 49.366 ug/l  
 RT: 8.16 min Scan# 1054  
 Delta R.T. -0.00 min  
 Lab File: VY002642.D  
 Acq: 08 May 2020 14:59

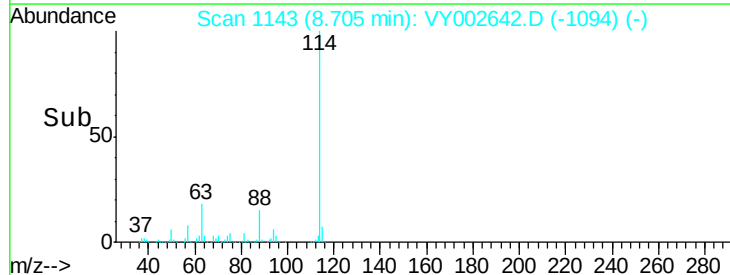
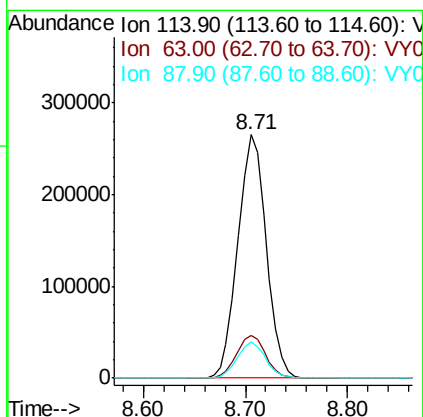
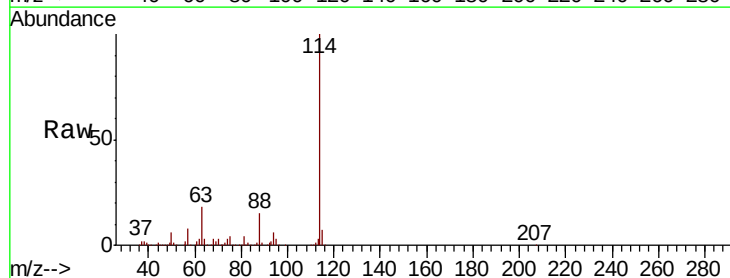
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 DRUM-1-1

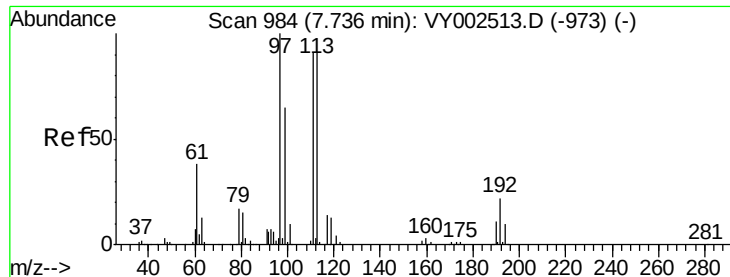
Tot Ion: 65 Resp: 136806  
 Ion Ratio Lower Upper  
 65 100  
 67 54.7 0.0 107.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1143  
 Delta R.T. -0.00 min  
 Lab File: VY002642.D  
 Acq: 08 May 2020 14:59

Tgt Ion: 114 Resp: 511755  
 Ion Ratio Lower Upper  
 114 100  
 63 17.7 0.0 36.4  
 88 15.1 0.0 29.6

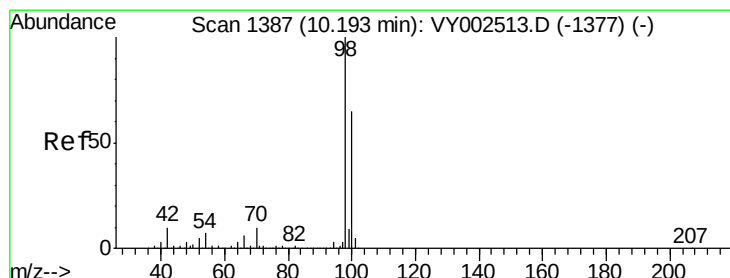
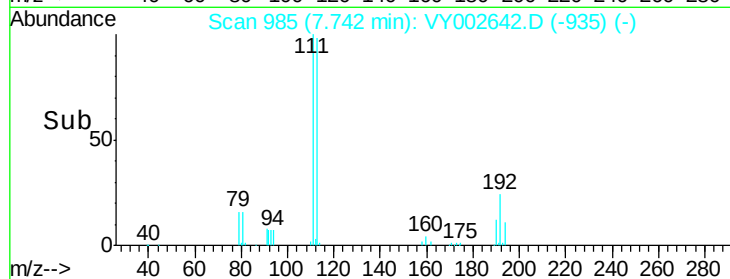
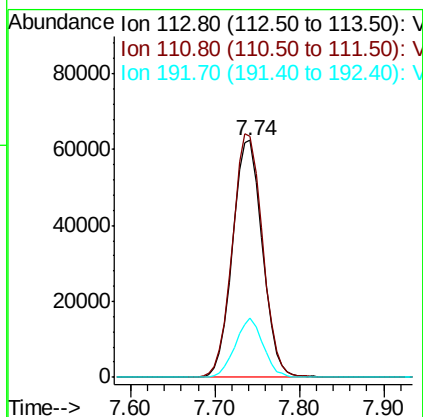
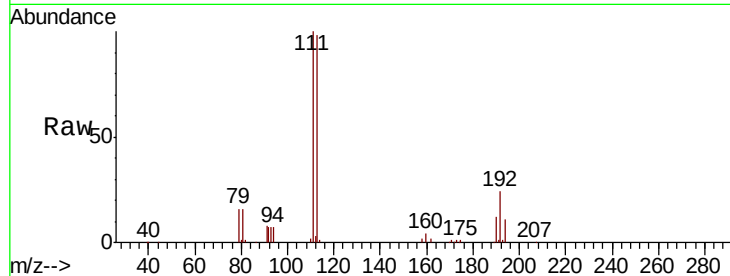




#35  
 Dibromofluoromethane  
 Concen: 50.975 ug/l  
 RT: 7.74 min Scan# 985  
 Delta R.T. 0.01 min  
 Lab File: VY002642.D  
 Acq: 08 May 2020 14:59

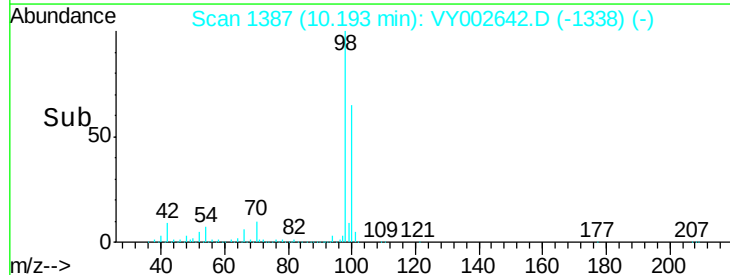
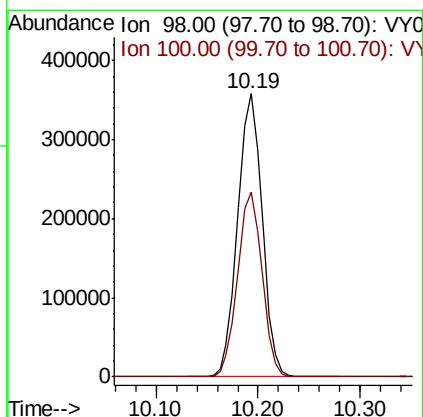
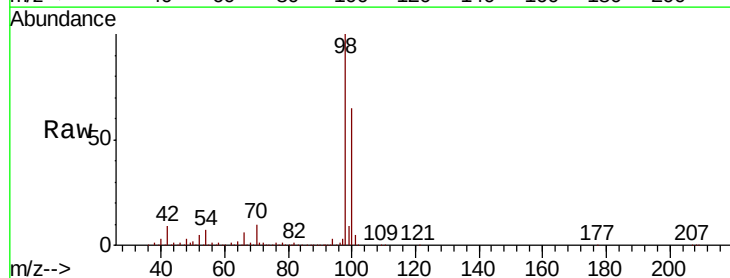
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 DRUM-1-1

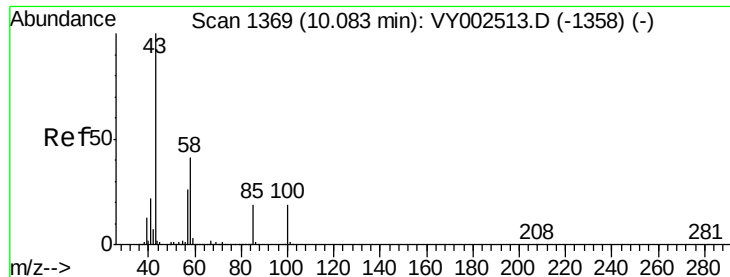
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.7 | 81.8  | 122.6 |
| 192     | 23.2  | 18.2  | 27.4  |



#50  
 Toluene-d8  
 Concen: 52.043 ug/l  
 RT: 10.19 min Scan# 1387  
 Delta R.T. -0.00 min  
 Lab File: VY002642.D  
 Acq: 08 May 2020 14:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 98      | 100   |       |       |
| 100     | 65.1  | 52.2  | 78.2  |





#51

4-Methyl-2-Pentanone

Concen: 3.782 ug/l

RT: 10.08 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VY002642.D

Acq: 08 May 2020 14:59

Instrument :

MSVOA\_Y

ClientSampleId :

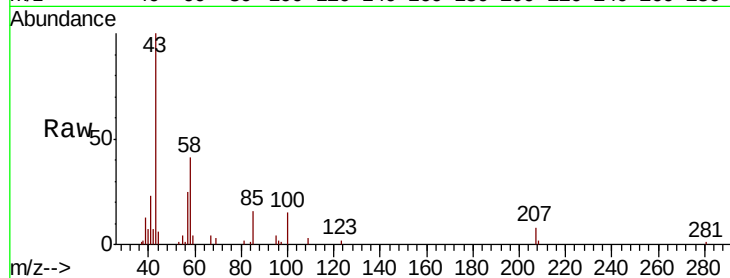
DRUM-1-1

Tot Ion: 43 Resp: 8057

Ion Ratio Lower Upper

43 100

58 40.8 33.2 49.8



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

10.08

5000

4000

3000

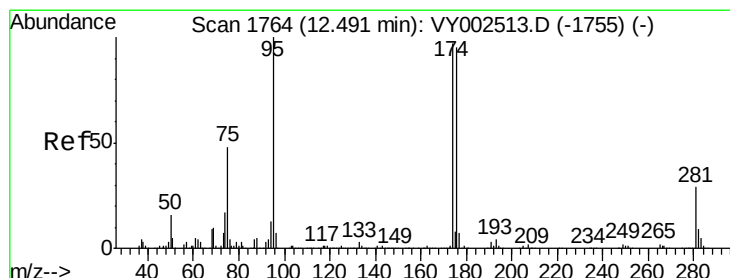
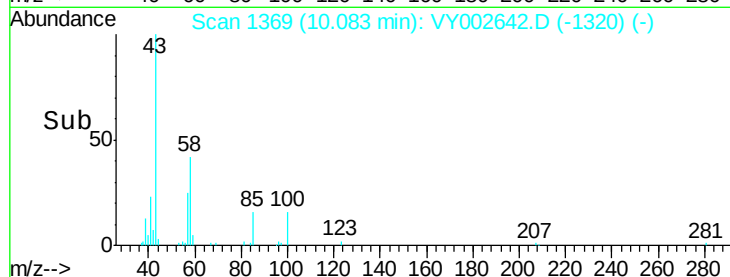
2000

1000

0

Time-->

10.00 10.05 10.10 10.15



#62

4-Bromofluorobenzene

Concen: 48.334 ug/l

RT: 12.49 min Scan# 1764

Delta R.T. -0.00 min

Lab File: VY002642.D

Acq: 08 May 2020 14:59

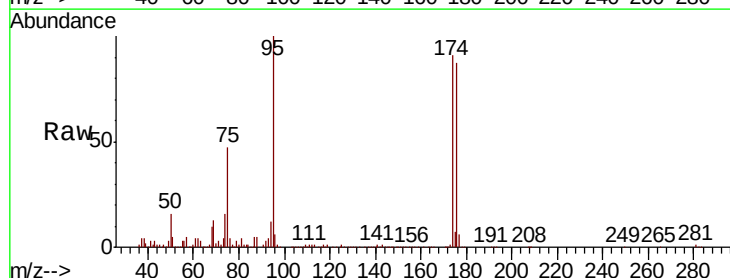
Tgt Ion: 95 Resp: 187452

Ion Ratio Lower Upper

95 100

174 92.6 0.0 188.8

176 90.1 0.0 183.2



Abundance Ion 94.90 (94.60 to 95.60): VY0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.49

150000

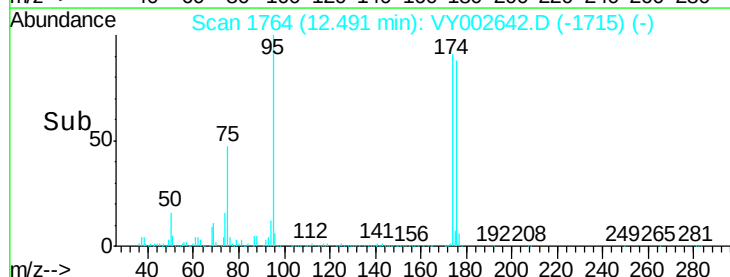
100000

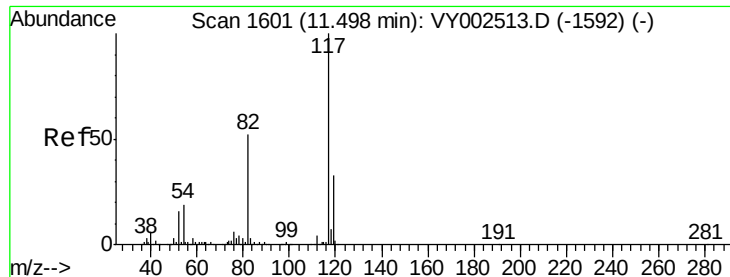
50000

0

Time-->

12.45 12.50 12.55

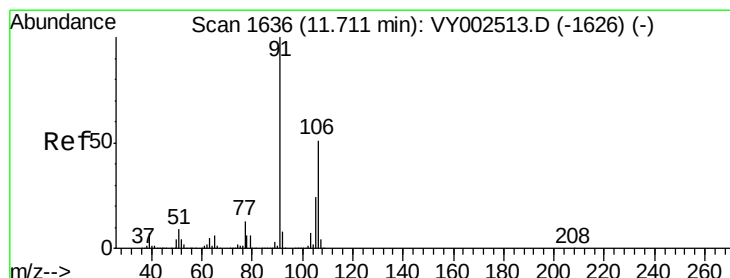
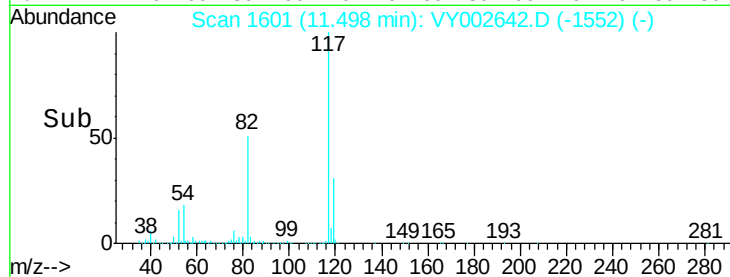
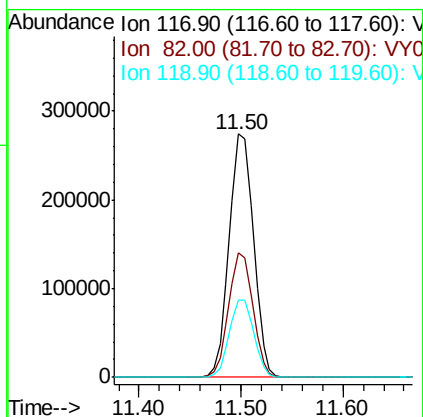
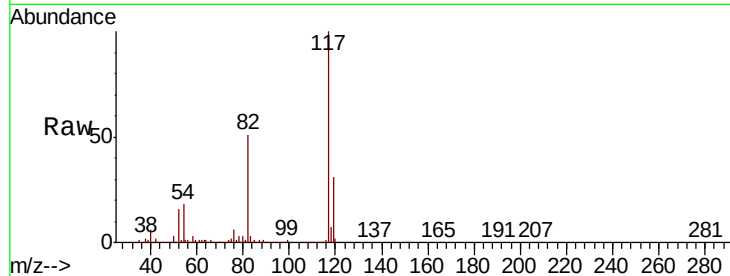




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.00 min  
Lab File: VY002642.D  
Acq: 08 May 2020 14:59

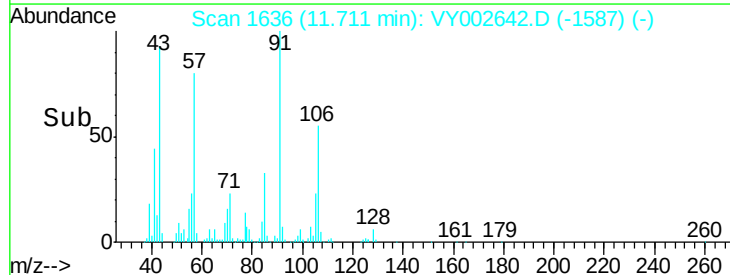
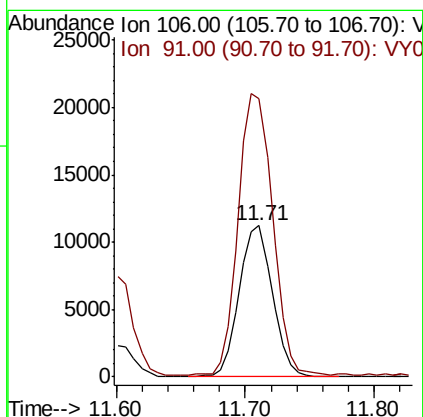
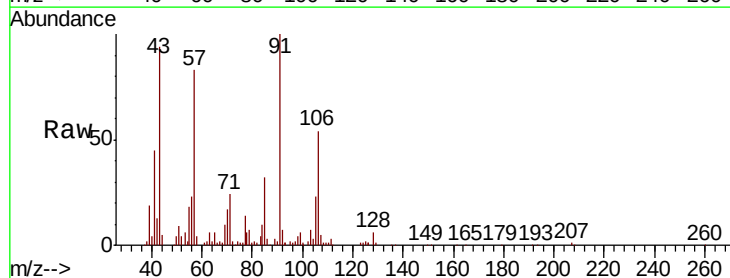
Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-1-1

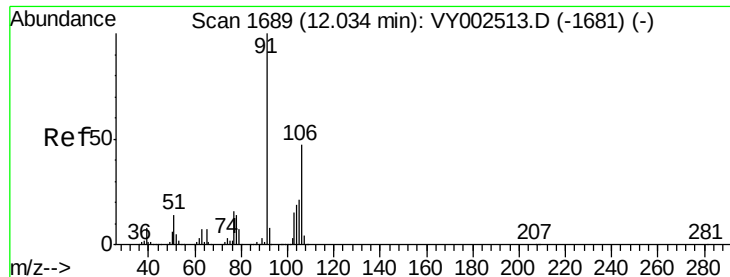
Tot Ion:117 Resp: 453399  
Ion Ratio Lower Upper  
117 100  
82 51.3 41.3 61.9  
119 31.5 26.0 39.0



#68  
m/p-Xylenes  
Concen: 3.427 ug/l  
RT: 11.71 min Scan# 1636  
Delta R.T. -0.00 min  
Lab File: VY002642.D  
Acq: 08 May 2020 14:59

Tgt Ion:106 Resp: 20077  
Ion Ratio Lower Upper  
106 100  
91 192.6 155.2 232.8

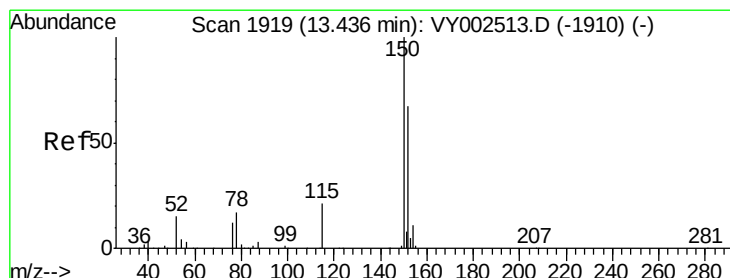
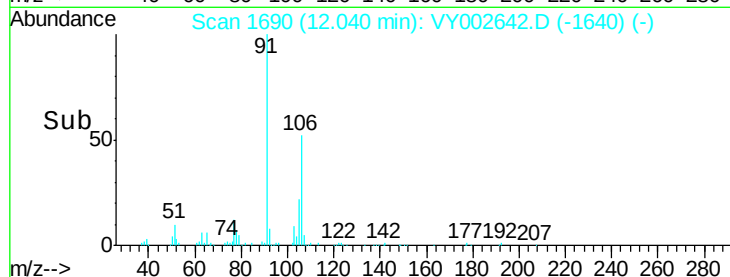
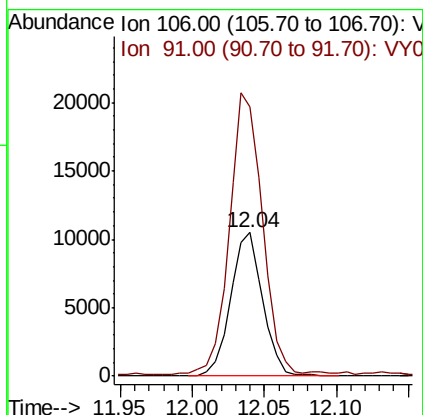
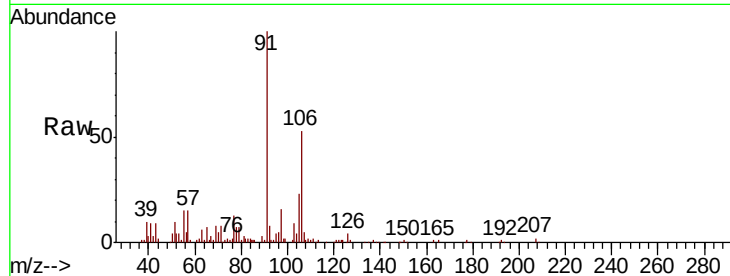




#69  
o-Xylene  
Concen: 2.960 ug/l  
RT: 12.04 min Scan# 1690  
Delta R.T. 0.01 min  
Lab File: VY002642.D  
Acq: 08 May 2020 14:59

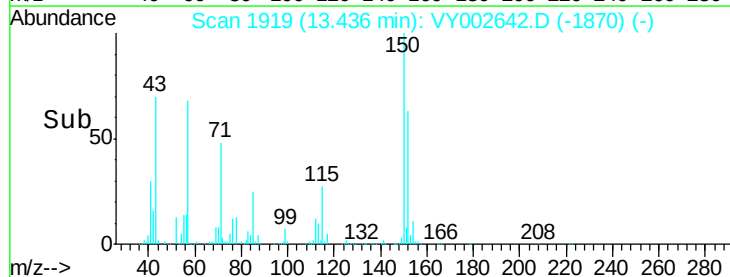
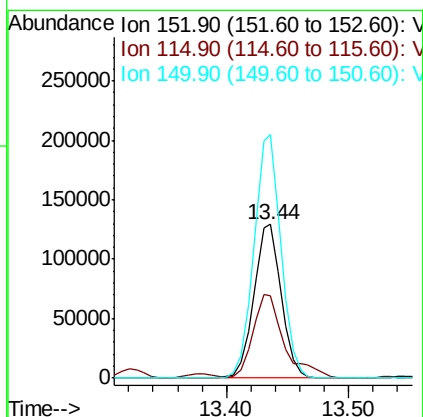
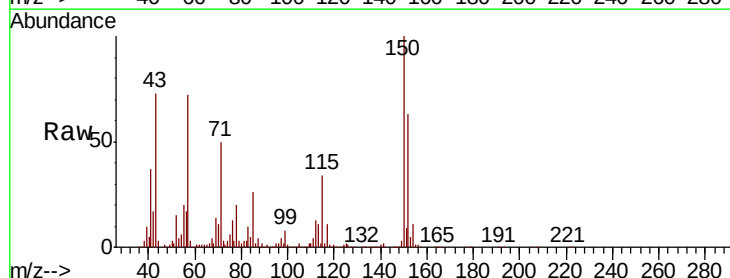
Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-1-1

Tot Ion:106 Resp: 16236  
Ion Ratio Lower Upper  
106 100  
91 201.4 103.8 311.3

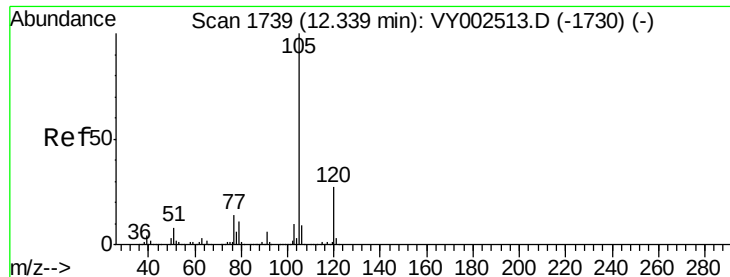


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.44 min Scan# 1919  
Delta R.T. -0.00 min  
Lab File: VY002642.D  
Acq: 08 May 2020 14:59

Tgt Ion:152 Resp: 200229  
Ion Ratio Lower Upper  
152 100  
115 61.6 27.5 82.4  
150 157.1 0.0 346.4







#73

Isopropylbenzene

Concen: 1.315 ug/l

RT: 12.34 min Scan# 1739

Delta R.T. -0.00 min

Lab File: VY002642.D

Acq: 08 May 2020 14:59

Instrument :

MSVOA\_Y

ClientSampleId :

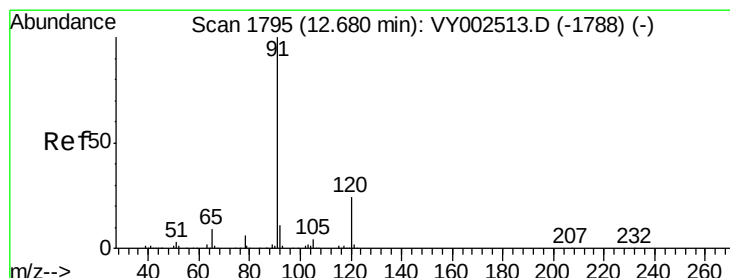
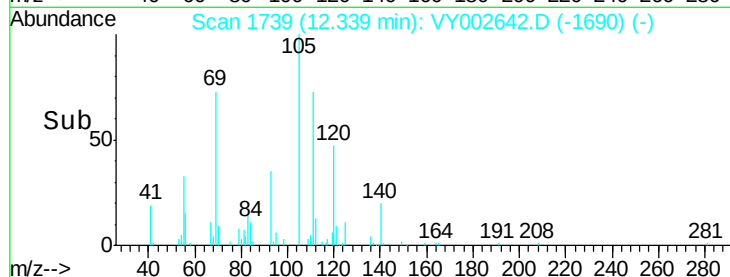
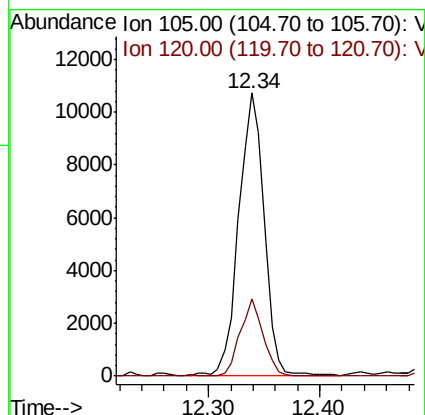
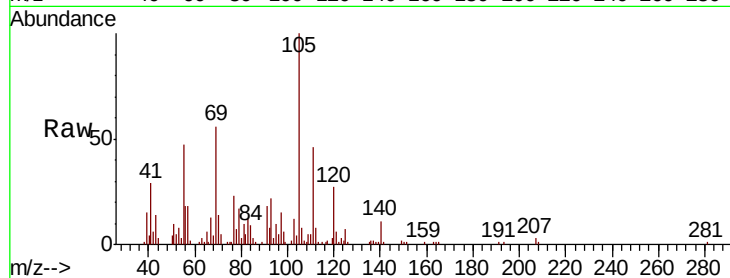
DRUM-1-1

Tot Ion:105 Resp: 17070

Ion Ratio Lower Upper

105 100

120 24.4 13.8 41.3



#78

n-propylbenzene

Concen: 5.857 ug/l

RT: 12.68 min Scan# 1795

Delta R.T. -0.00 min

Lab File: VY002642.D

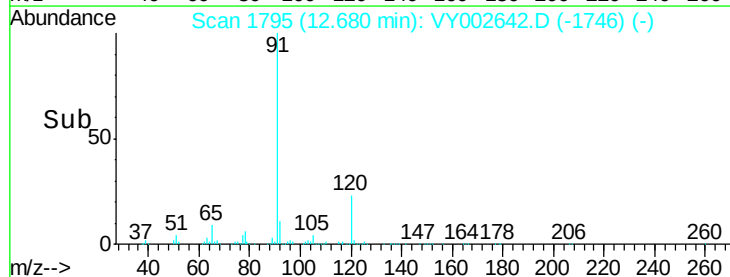
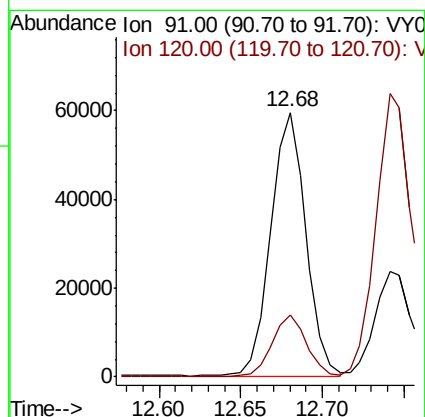
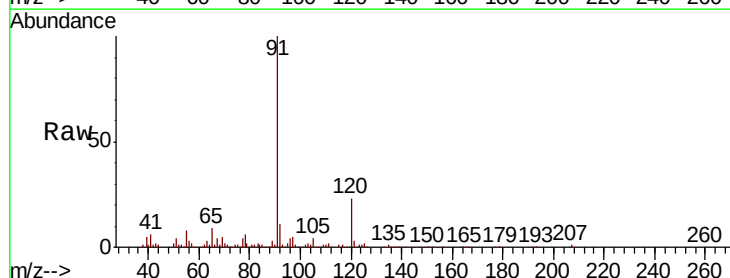
Acq: 08 May 2020 14:59

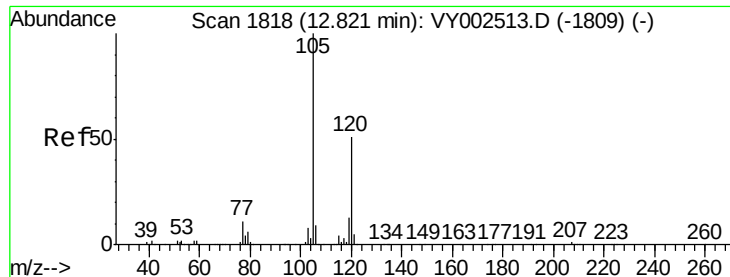
Tgt Ion: 91 Resp: 88198

Ion Ratio Lower Upper

91 100

120 23.5 12.2 36.4





#80

1,3,5-Trimethylbenzene

Concen: 14.487 ug/l

RT: 12.82 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VY002642.D

Acq: 08 May 2020 14:59

Instrument :

MSVOA\_Y

ClientSampleId :

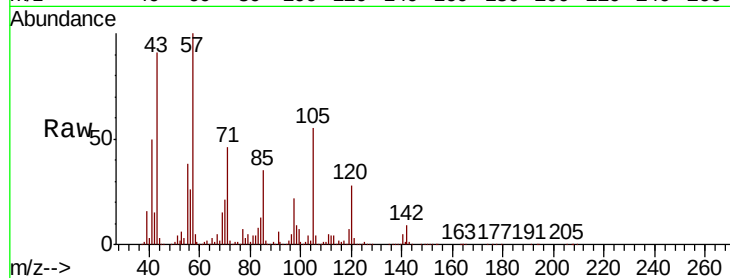
DRUM-1-1

Tot Ion:105 Resp: 155834

Ion Ratio Lower Upper

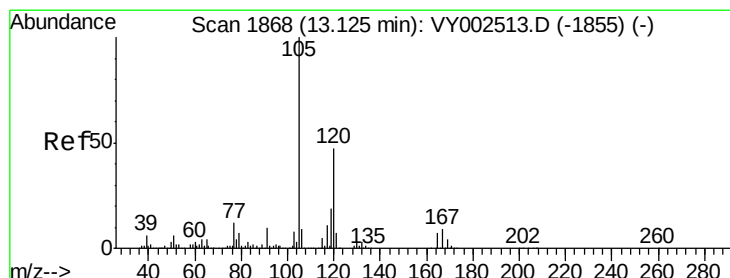
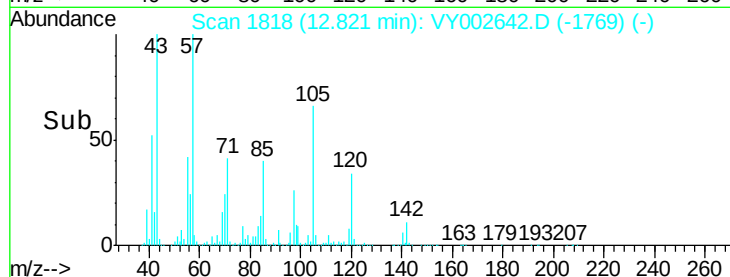
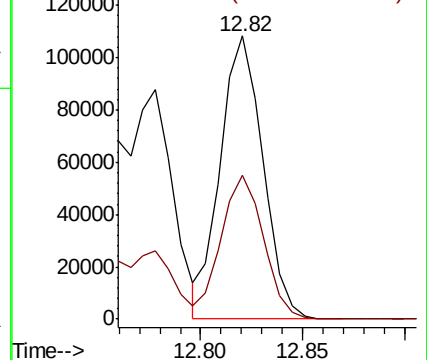
105 100

120 51.1 25.3 75.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#84

1,2,4-Trimethylbenzene

Concen: 69.000 ug/l

RT: 13.13 min Scan# 1869

Delta R.T. 0.01 min

Lab File: VY002642.D

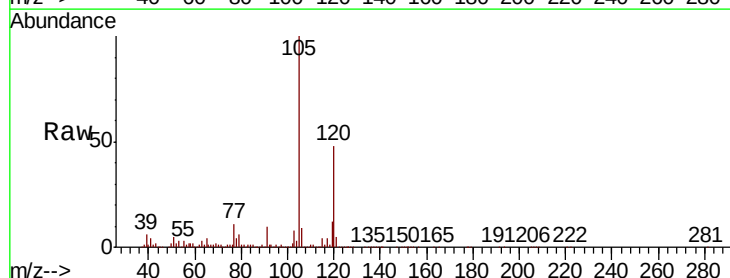
Acq: 08 May 2020 14:59

Tgt Ion:105 Resp: 739703

Ion Ratio Lower Upper

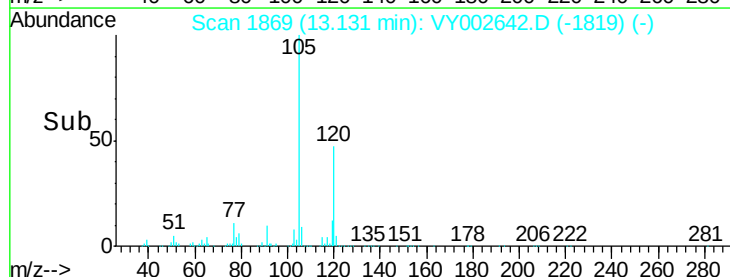
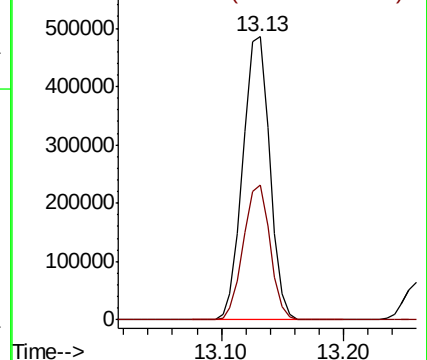
105 100

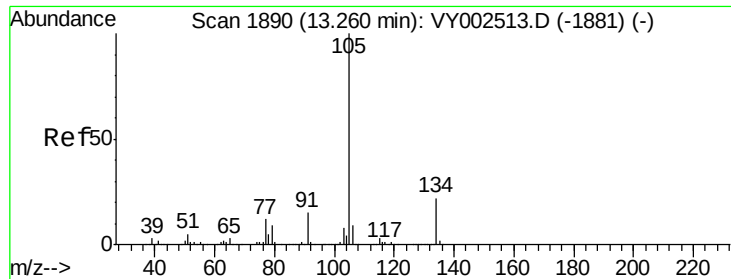
120 47.3 23.4 70.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 7.611 ug/l

RT: 13.26 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VY002642.D

Acq: 08 May 2020 14:59

Instrument :

MSVOA\_Y

ClientSampled :

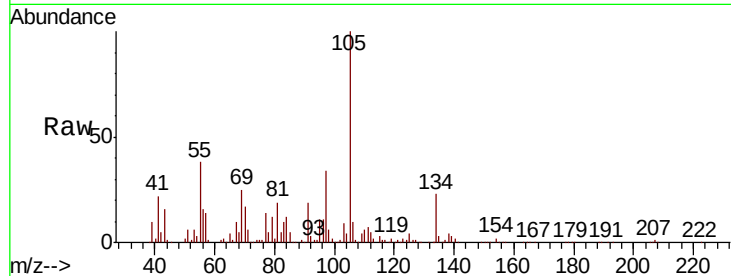
DRUM-1-1

Tot Ion:105 Resp: 99610

Ion Ratio Lower Upper

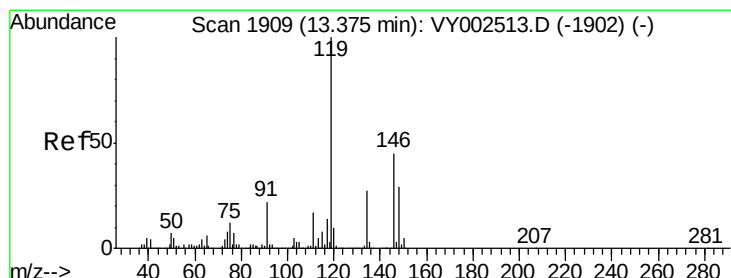
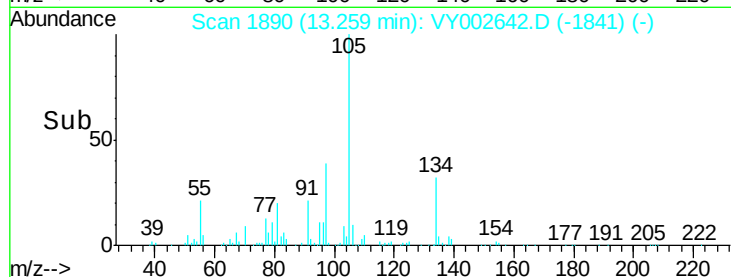
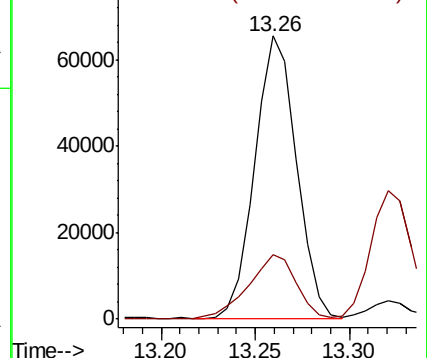
105 100

134 26.6 10.8 32.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 6.329 ug/l

RT: 13.38 min Scan# 1909

Delta R.T. -0.00 min

Lab File: VY002642.D

Acq: 08 May 2020 14:59

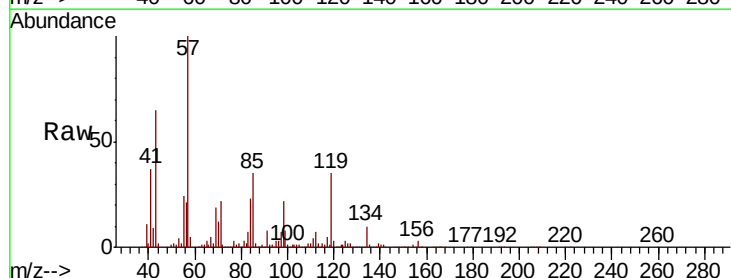
Tgt Ion:119 Resp: 77607

Ion Ratio Lower Upper

119 100

134 27.4 13.5 40.5

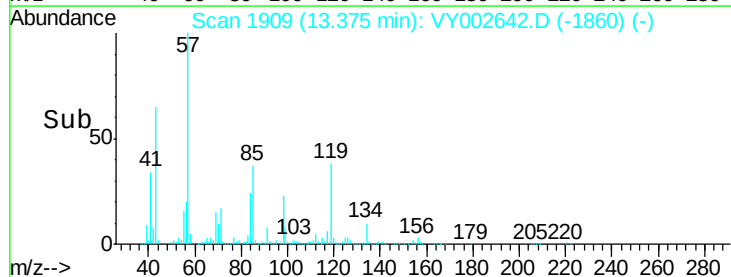
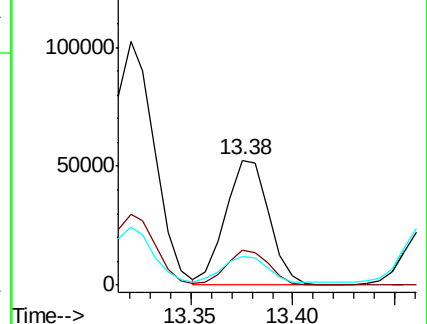
91 21.3 10.9 32.9

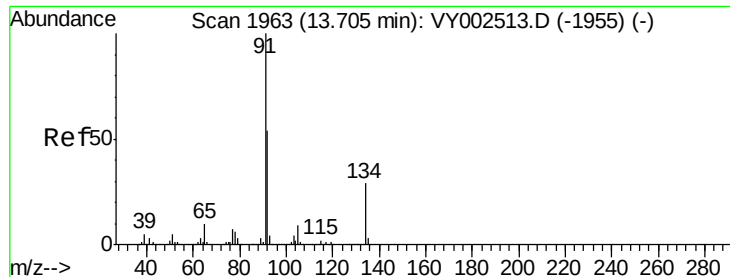


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VY0

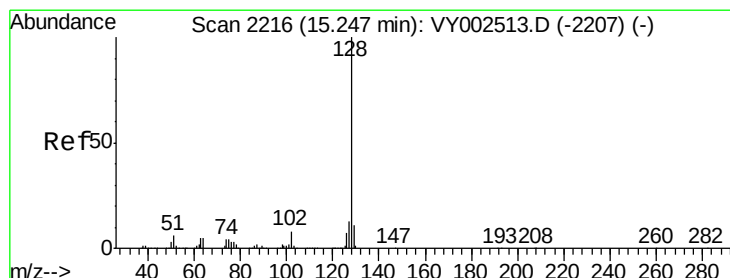
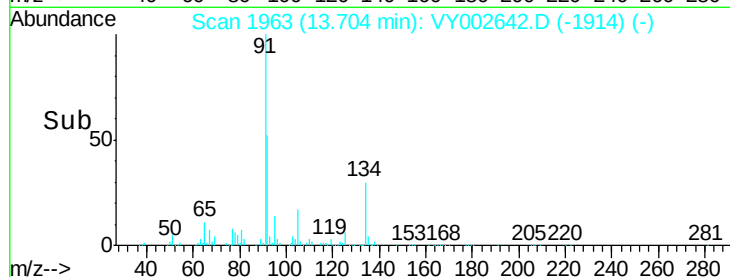
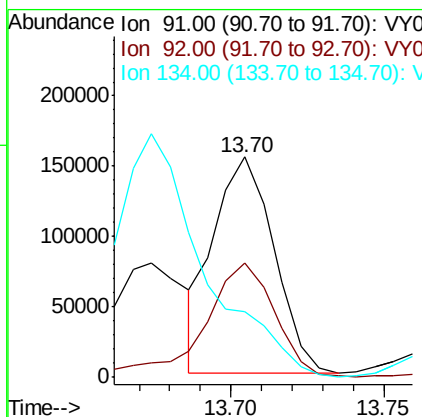
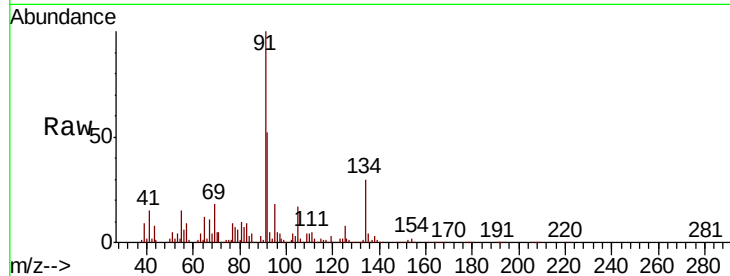




#89  
n-Butylbenzene  
Concen: 18.666 ug/l  
RT: 13.70 min Scan# 1963  
Delta R.T. -0.00 min  
Lab File: VY002642.D  
Acq: 08 May 2020 14:59

Instrument :  
MSVOA\_Y  
ClientSampleId :  
DRUM-1-1

Tot Ion: 91 Resp: 208384  
Ion Ratio Lower Upper  
91 100  
92 61.6 27.1 81.3  
134 0.0 14.4 43.0#



#95  
Naphthalene  
Concen: 70.604 ug/l  
RT: 15.25 min Scan# 2216  
Delta R.T. -0.00 min  
Lab File: VY002642.D  
Acq: 08 May 2020 14:59

Tgt Ion: 128 Resp: 512005  
Ion Ratio Lower Upper  
128 100  
127 17.7 10.5 15.7#  
129 15.0 8.8 13.2#

