

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY020320\  
 Data File : VY001473.D  
 Acq On : 03 Feb 2020 14:44  
 Operator : SY/MD  
 Sample : L1329-22  
 Misc : 5.06G/5ML/MSVOA Y/SOIL  
 ALS Vial : 12 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 40628-40629

Quant Time: Feb 04 07:30:23 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
 Quant Title : SW846 8260  
 QLast Update : Thu Jan 23 01:21:47 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.81  | 168  | 194152   | 50.00 | ug/l  | -0.01    |
| 34) 1,4-Difluorobenzene    | 8.71  | 114  | 346525   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.50 | 117  | 201487   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.43 | 152  | 35733    | 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   | 112267   | 53.14 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 106.28% |          |
| 35) Dibromofluoromethane    | 7.74  | 113  | 107267   | 52.74 | ug/l    | -0.01    |
| Spiked Amount               |       |      | Recovery | =     | 105.48% |          |
| 50) Toluene-d8              | 10.19 | 98   | 337806   | 42.75 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 85.50%  |          |
| 62) 4-Bromofluorobenzene    | 12.49 | 95   | 74387    | 23.64 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 47.28%  |          |

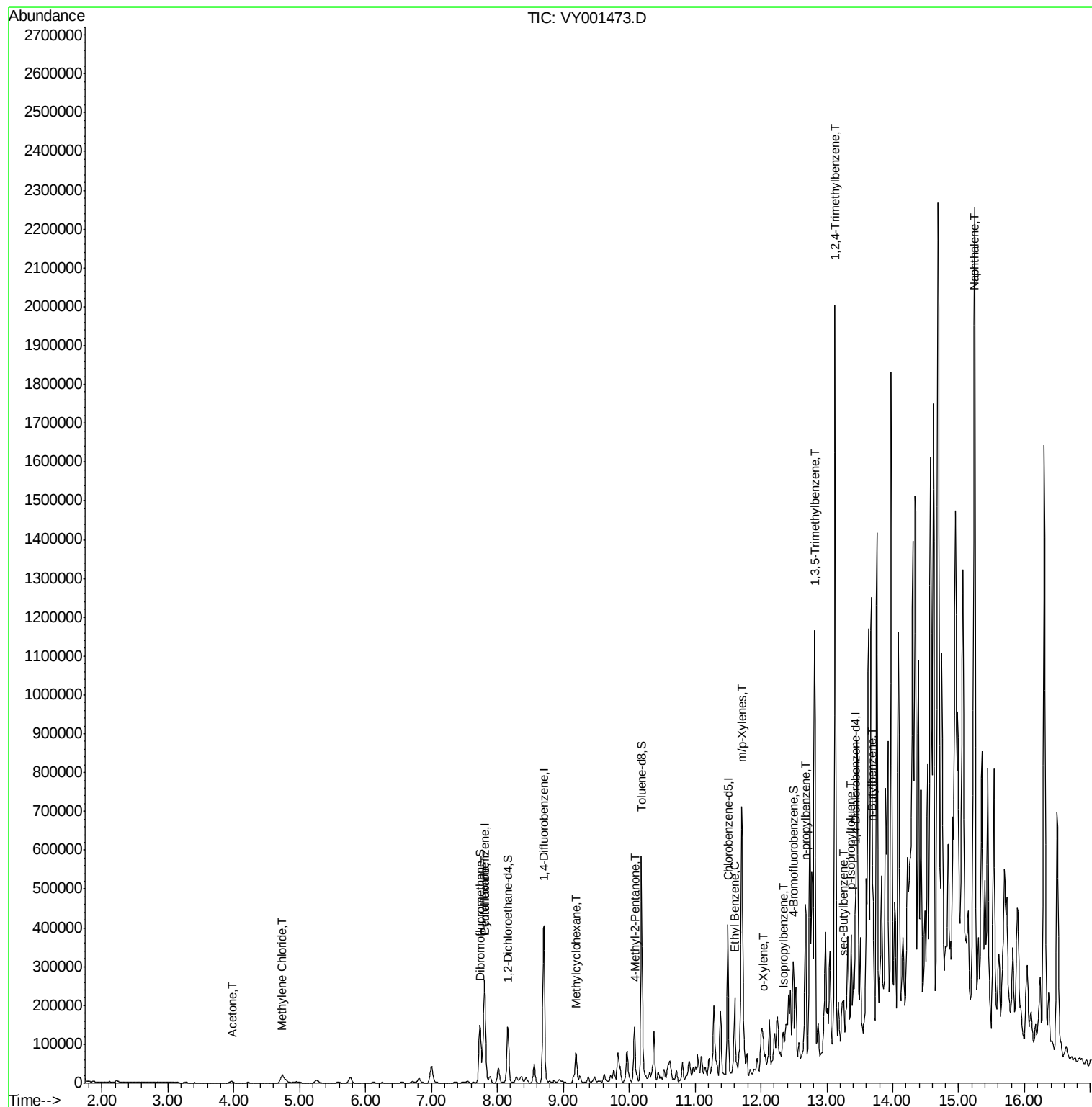
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                | 3.97  | 43   | 8093     | 7.180   | ug/l   | 93     |
| 20) Methylene Chloride     | 4.73  | 84   | 14719    | 1.534   | ug/l # | 82     |
| 31) Cyclohexane            | 7.80  | 56   | 14821    | 3.628   | ug/l # | 78     |
| 39) Methylcyclohexane      | 9.19  | 83   | 31192    | 7.437   | ug/l   | 98     |
| 51) 4-Methyl-2-Pentanone   | 10.08 | 43   | 89682    | 44.775  | ug/l   | 97     |
| 67) Ethyl Benzene          | 11.60 | 91   | 120837   | 15.439  | ug/l   | 99     |
| 68) m/p-Xylenes            | 11.70 | 106  | 172650   | 59.061  | ug/l   | 99     |
| 69) o-Xylene               | 12.03 | 106  | 15984    | 5.684   | ug/l   | 99     |
| 73) Isopropylbenzene       | 12.34 | 105  | 44496    | 15.781  | ug/l   | 98     |
| 78) n-propylbenzene        | 12.67 | 91   | 302398   | 89.102  | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 12.82 | 105  | 251542   | 106.875 | ug/l   | 100    |
| 84) 1,2,4-Trimethylbenzene | 13.13 | 105  | 1019075  | 431.270 | ug/l   | 100    |
| 85) sec-Butylbenzene       | 13.26 | 105  | 50324    | 17.853  | ug/l # | 64     |
| 86) p-Isopropyltoluene     | 13.38 | 119  | 28177    | 11.344  | ug/l   | 99     |
| 89) n-Butylbenzene         | 13.70 | 91   | 156130   | 62.454  | ug/l # | 74     |
| 95) Naphthalene            | 15.24 | 128  | 1586212  | 931.790 | ug/l   | 100    |

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

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Quant Time: Feb 04 07:30:23 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y012120S.M  
Quant Title : SW846 8260  
QLast Update : Thu Jan 23 01:21:47 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: VY001473.D

Acq: 03 Feb 2020 14:44

Instrument :

MSVOA\_Y

ClientSampleId :

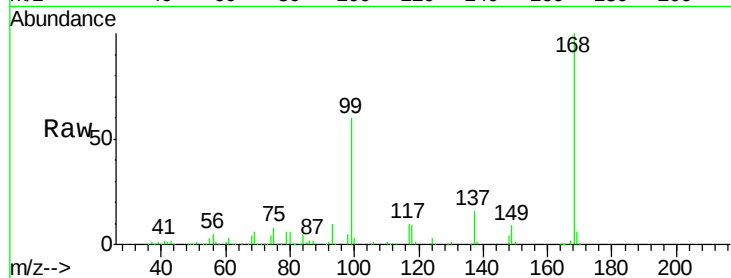
40628-40629

Tot Ion:168 Resp: 194152

Ion Ratio Lower Upper

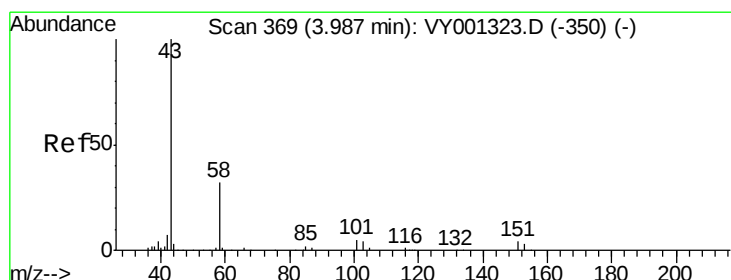
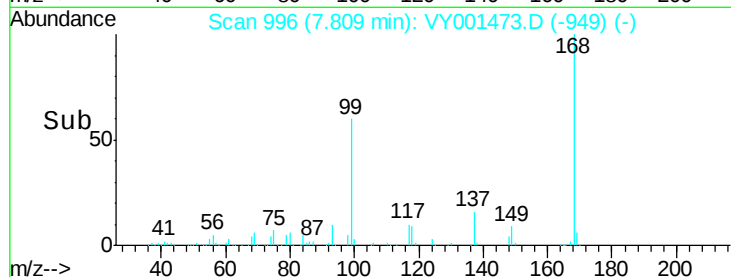
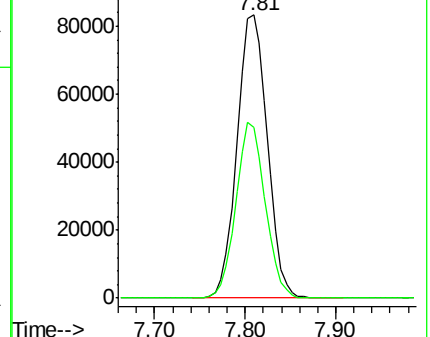
168 100

99 60.3 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): VY001473.D (-949) (-)

Ion 98.90 (98.60 to 99.60): VY001473.D (-949) (-)



#16

Acetone

Concen: 7.180 ug/l

RT: 3.97 min Scan# 366

Delta R.T. -0.02 min

Lab File: VY001473.D

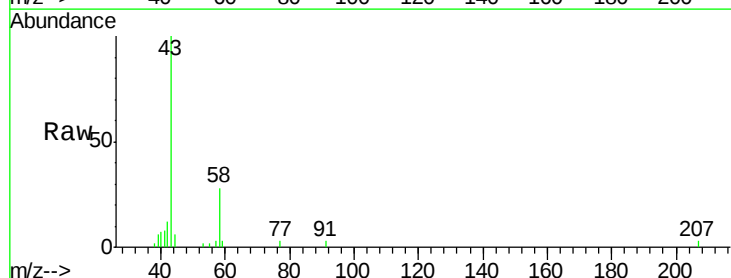
Acq: 03 Feb 2020 14:44

Tgt Ion: 43 Resp: 8093

Ion Ratio Lower Upper

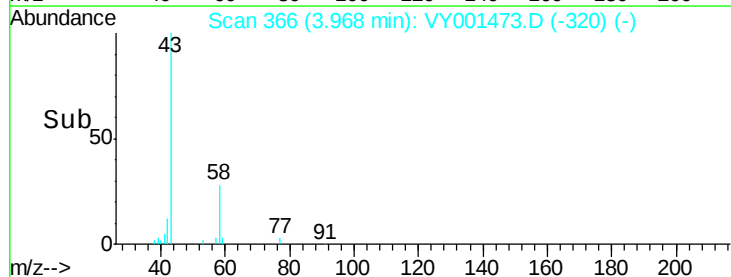
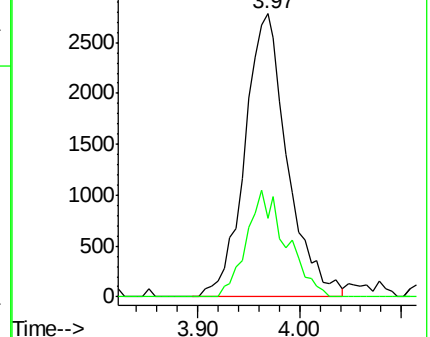
43 100

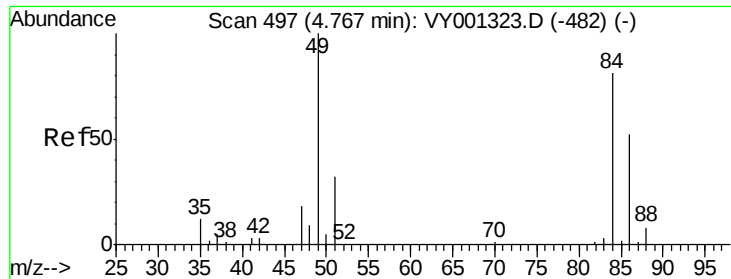
58 27.7 25.4 38.0



Abundance Ion 43.00 (42.70 to 43.70): VY001473.D (-320) (-)

Ion 58.00 (57.70 to 58.70): VY001473.D (-320) (-)

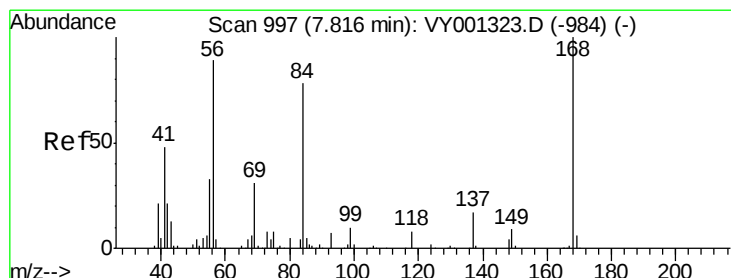
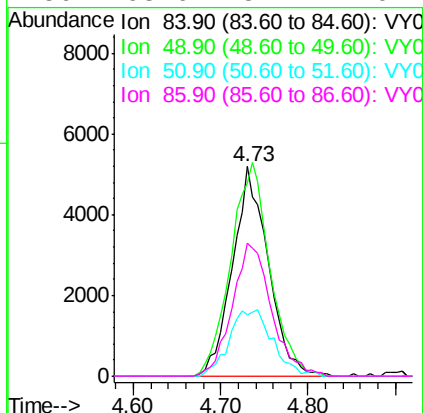
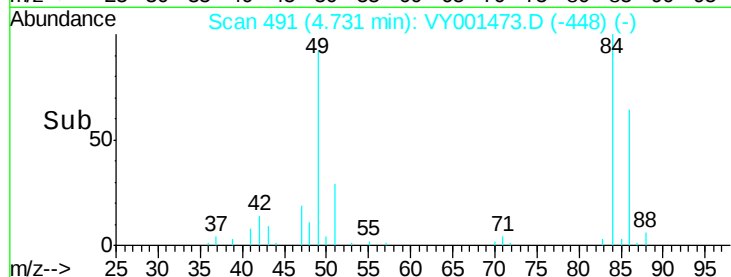
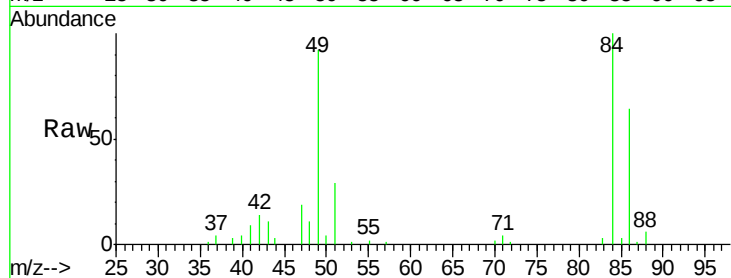




#20  
Methvlene Chloride  
Concen: 1.534 ug/l  
RT: 4.73 min Scan# 491  
Delta R.T. -0.04 min  
Lab File: VY001473.D  
Acq: 03 Feb 2020 14:44

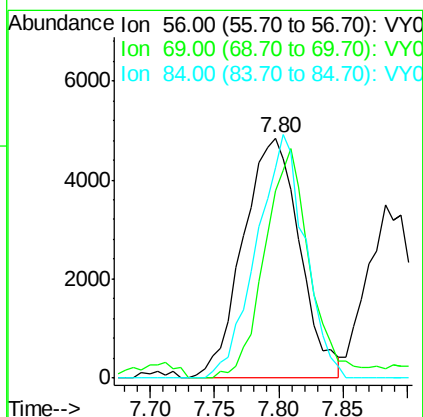
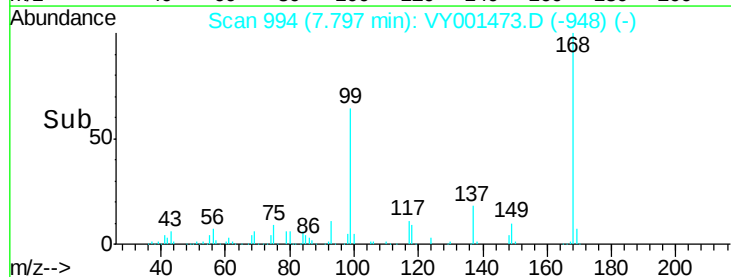
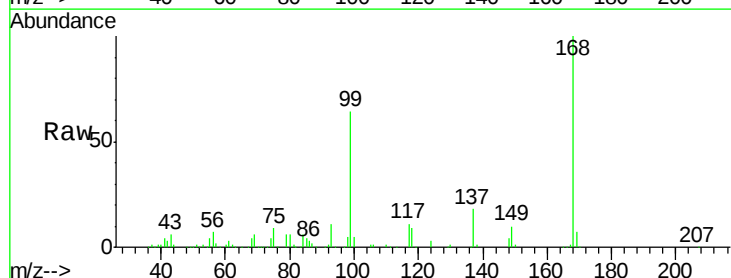
Instrument :  
MSVOA\_Y  
ClientSampleId :  
40628-40629

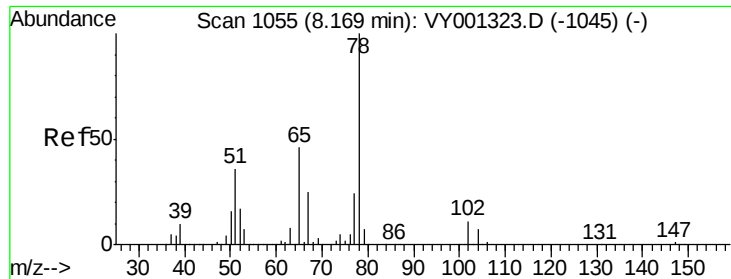
Tot Ion: 84 Resp: 14719  
Ion Ratio Lower Upper  
84 100  
49 92.3 98.3 147.5#  
51 29.5 31.6 47.4#  
86 63.6 51.1 76.7



#31  
Cyclohexane  
Concen: 3.628 ug/l  
RT: 7.80 min Scan# 994  
Delta R.T. -0.02 min  
Lab File: VY001473.D  
Acq: 03 Feb 2020 14:44

Tgt Ion: 56 Resp: 14821  
Ion Ratio Lower Upper  
56 100  
69 78.3 27.6 41.4#  
84 87.9 69.7 104.5

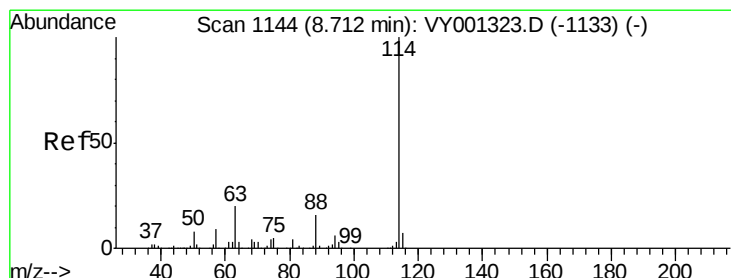
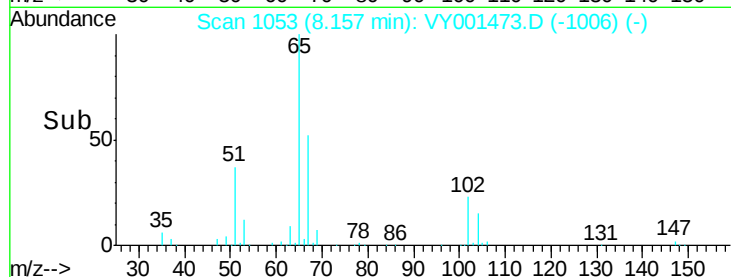
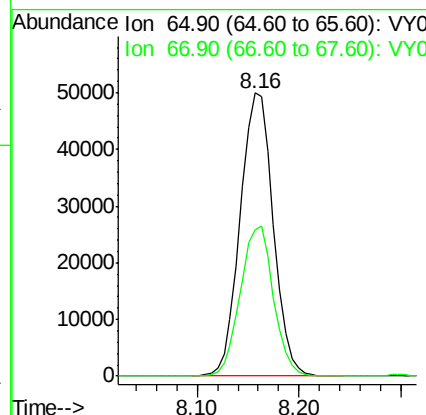
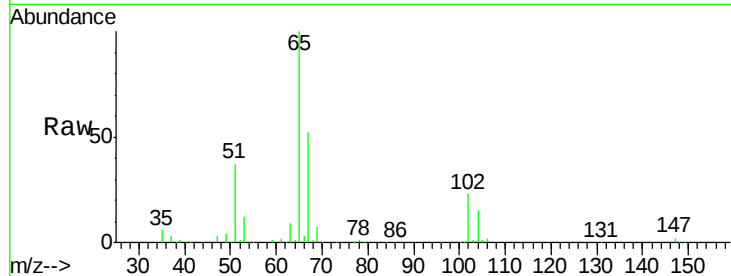




#33  
 1,2-Dichloroethane-d4  
 Concen: 53.141 ug/l  
 RT: 8.16 min Scan# 1053  
 Delta R.T. -0.01 min  
 Lab File: VY001473.D  
 Acq: 03 Feb 2020 14:44

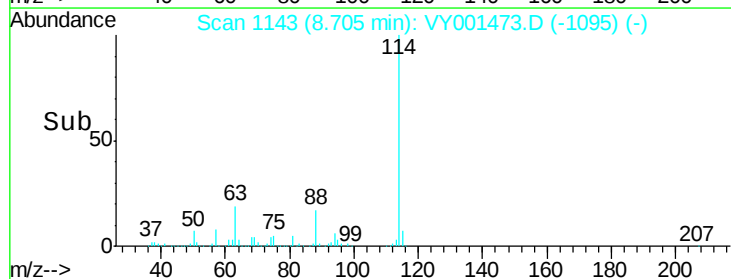
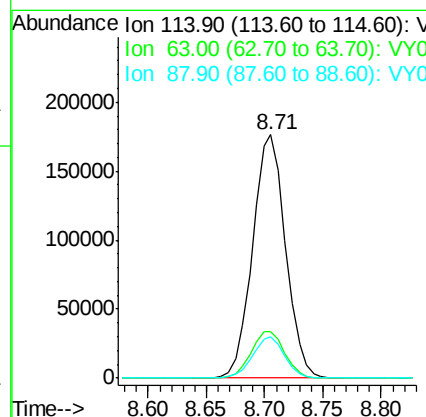
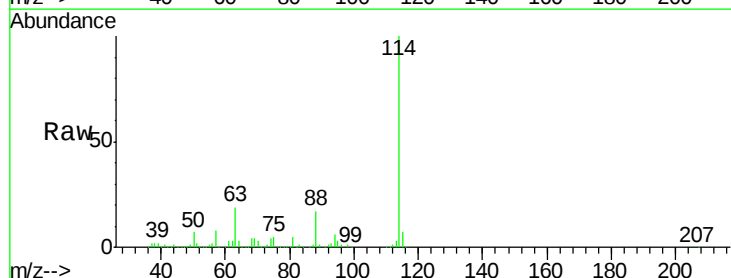
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 40628-40629

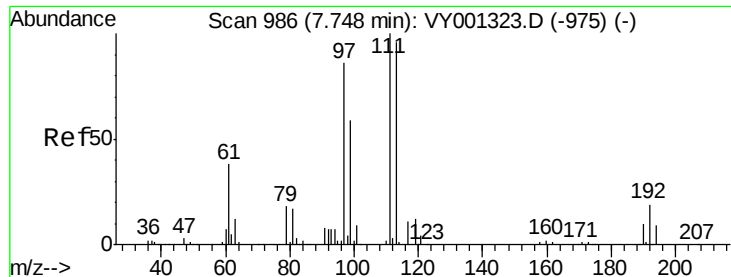
Tot Ion: 65 Resp: 112267  
 Ion Ratio Lower Upper  
 65 100  
 67 53.1 0.0 108.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.71 min Scan# 1143  
 Delta R.T. -0.01 min  
 Lab File: VY001473.D  
 Acq: 03 Feb 2020 14:44

Tgt Ion: 114 Resp: 346525  
 Ion Ratio Lower Upper  
 114 100  
 63 18.9 0.0 40.8  
 88 16.7 0.0 31.0

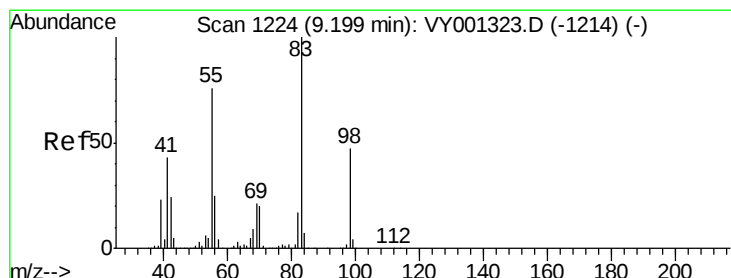
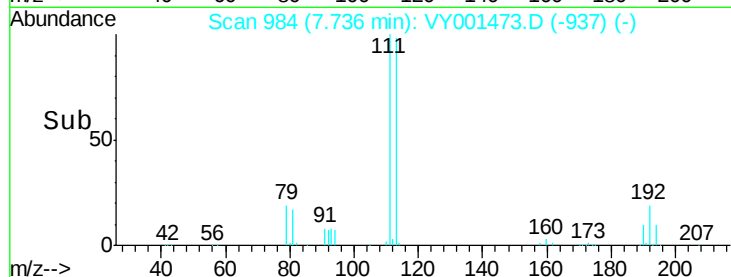
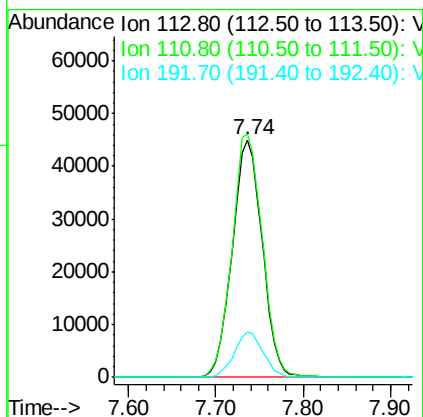
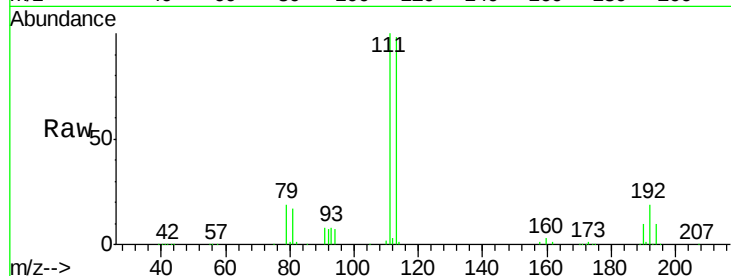




#35  
 Dibromofluoromethane  
 Concen: 52.742 ug/l  
 RT: 7.74 min Scan# 984  
 Delta R.T. -0.01 min  
 Lab File: VY001473.D  
 Acq: 03 Feb 2020 14:44

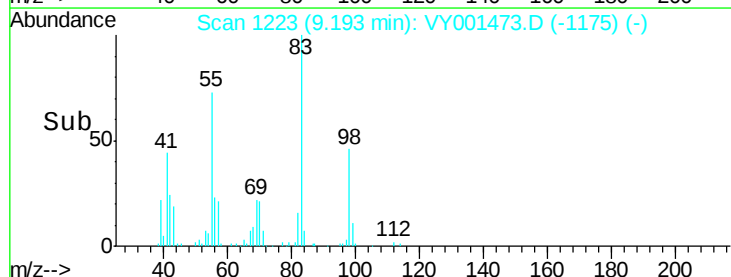
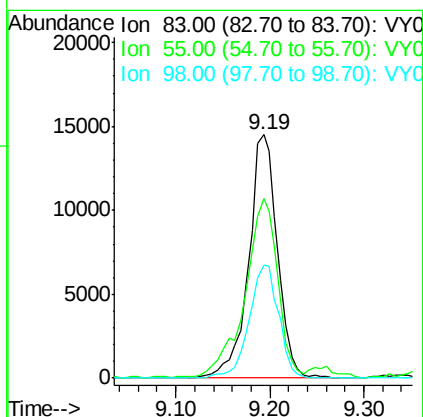
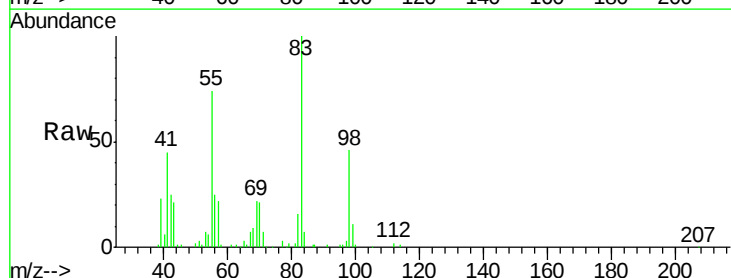
Instrument :  
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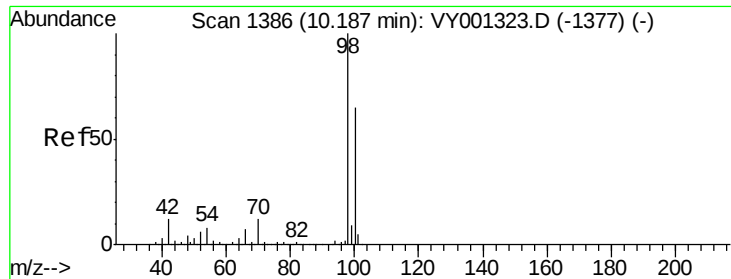
Tot Ion:113 Resp: 107267  
 Ion Ratio Lower Upper  
 113 100  
 111 104.0 82.8 124.2  
 192 18.4 15.5 23.3



#39  
 Methylcyclohexane  
 Concen: 7.437 ug/l  
 RT: 9.19 min Scan# 1223  
 Delta R.T. -0.01 min  
 Lab File: VY001473.D  
 Acq: 03 Feb 2020 14:44

Tgt Ion: 83 Resp: 31192  
 Ion Ratio Lower Upper  
 83 100  
 55 73.2 60.7 91.1  
 98 46.4 37.8 56.8





#50

Toluene-d8

Concen: 42.751 ug/l

RT: 10.19 min Scan# 1386

Delta R.T. -0.00 min

Lab File: VY001473.D

Acq: 03 Feb 2020 14:44

Instrument :

MSVOA\_Y

ClientSampleId :

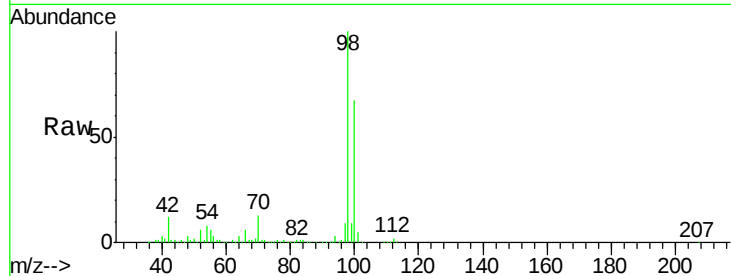
40628-40629

Tot Ion: 98 Resp: 337806

Ion Ratio Lower Upper

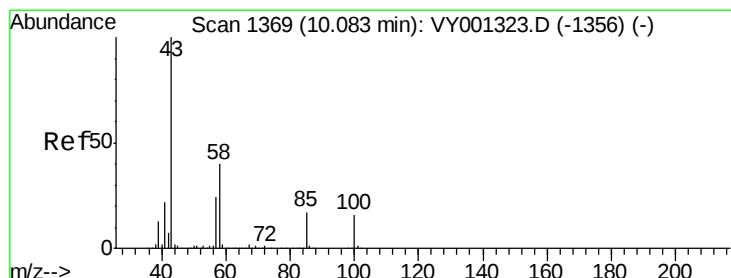
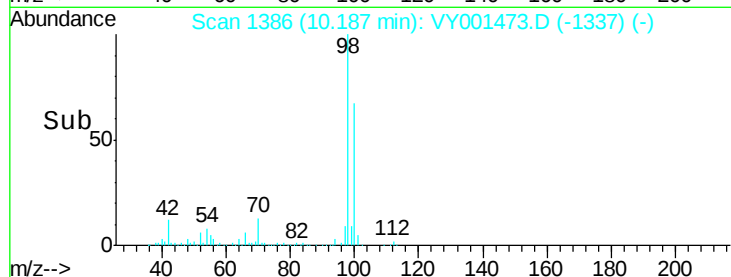
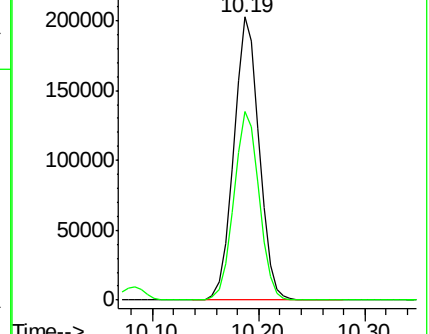
98 100

100 66.5 52.6 79.0



Abundance Ion 98.00 (97.70 to 98.70): VY0

Ion 100.00 (99.70 to 100.70): VY0



#51

4-Methyl-2-Pentanone

Concen: 44.775 ug/l

RT: 10.08 min Scan# 1369

Delta R.T. -0.00 min

Lab File: VY001473.D

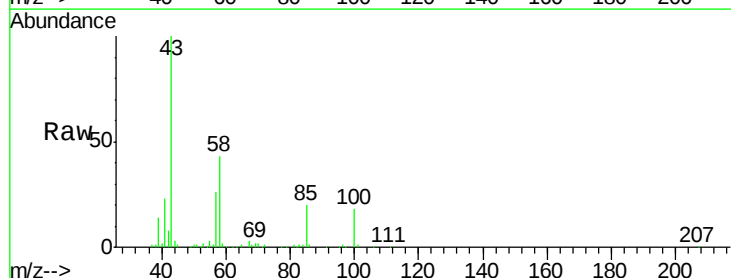
Acq: 03 Feb 2020 14:44

Tgt Ion: 43 Resp: 89682

Ion Ratio Lower Upper

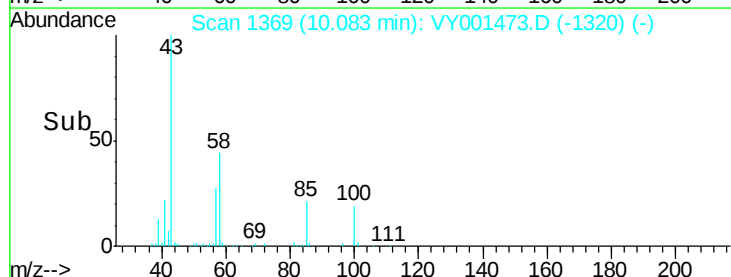
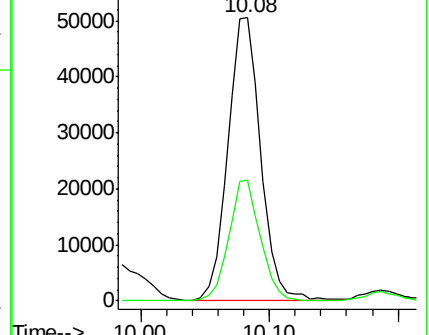
43 100

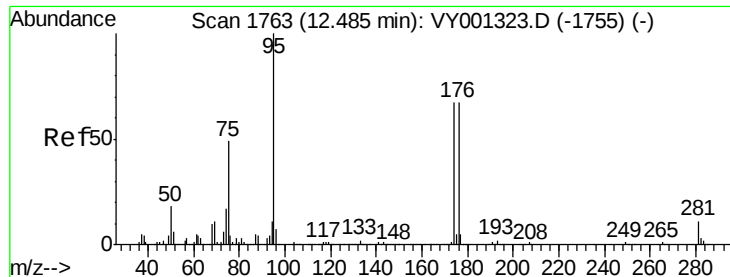
58 41.2 31.5 47.3



Abundance Ion 43.00 (42.70 to 43.70): VY0

Ion 58.00 (57.70 to 58.70): VY0

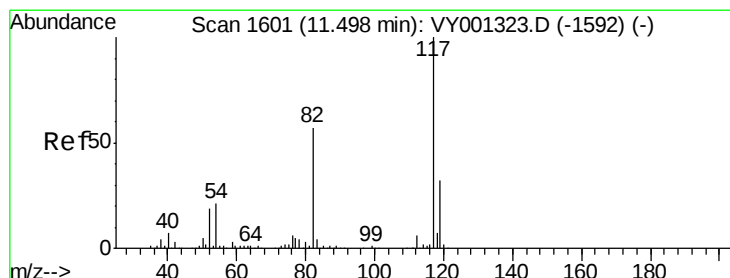
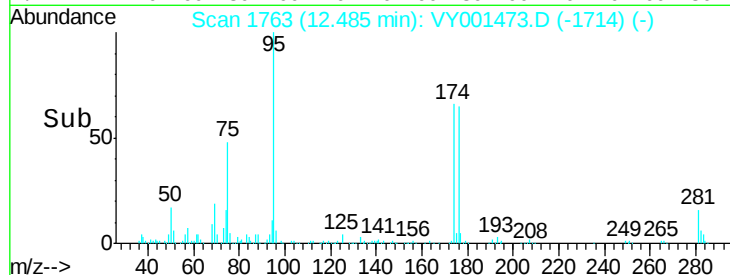
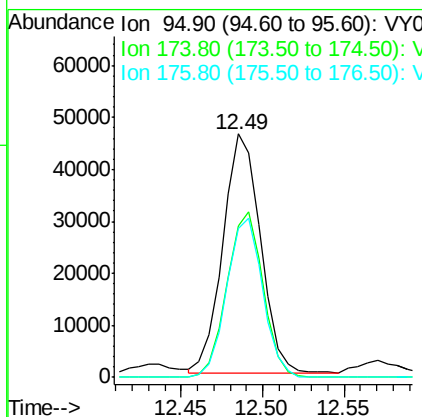
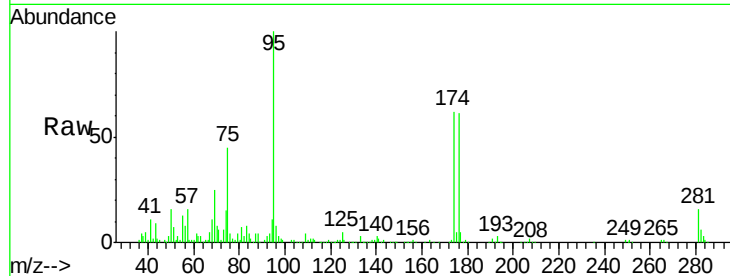




#62  
4-Bromofluorobenzene  
Concen: 23.640 ug/l  
RT: 12.49 min Scan# 1763  
Delta R.T. -0.00 min  
Lab File: VY001473.D  
Acq: 03 Feb 2020 14:44

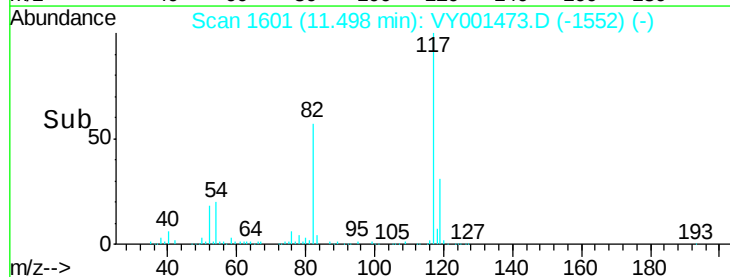
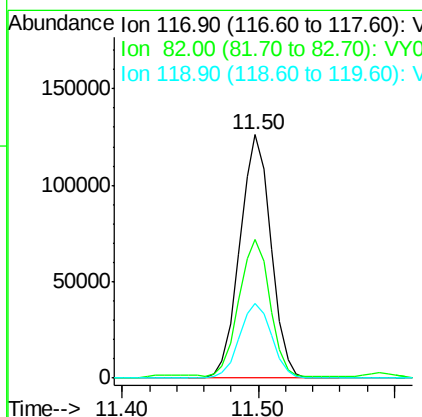
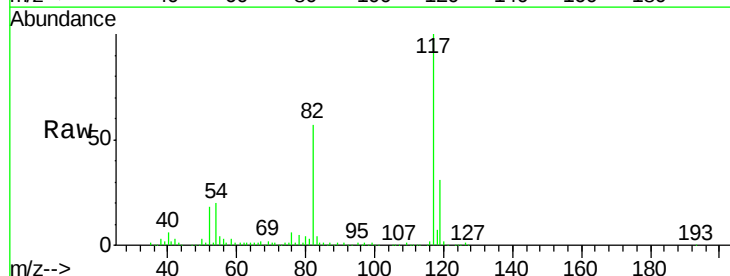
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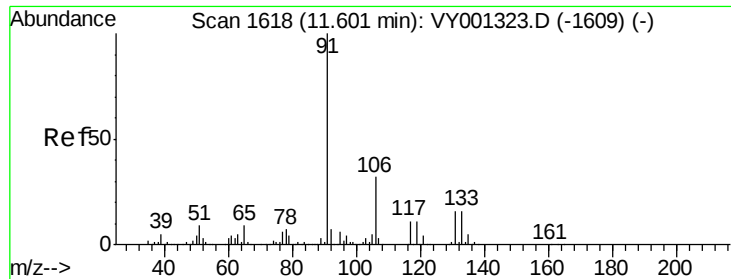
Tot Ion: 95 Resp: 74387  
Ion Ratio Lower Upper  
95 100  
174 65.6 0.0 142.0  
176 62.9 0.0 138.6



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.50 min Scan# 1601  
Delta R.T. -0.00 min  
Lab File: VY001473.D  
Acq: 03 Feb 2020 14:44

Tgt Ion: 117 Resp: 201487  
Ion Ratio Lower Upper  
117 100  
82 56.2 45.5 68.3  
119 30.8 25.8 38.6

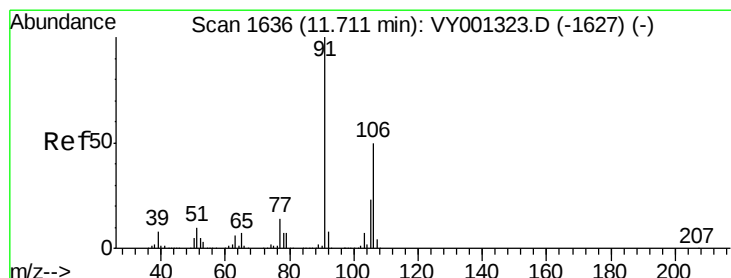
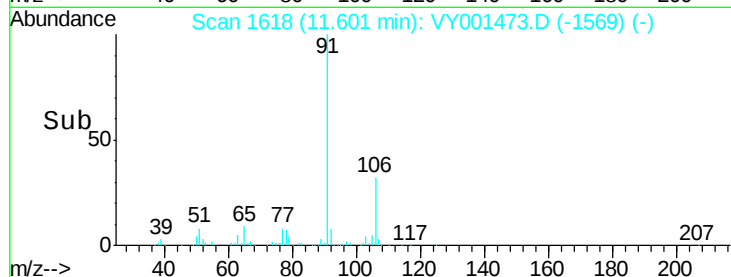
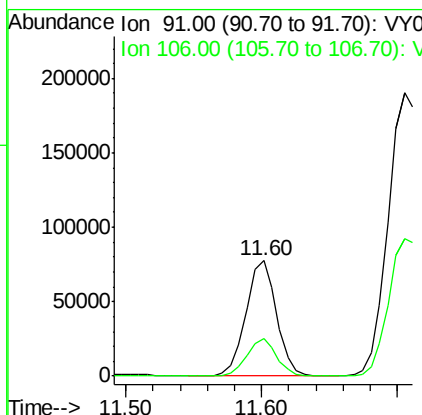
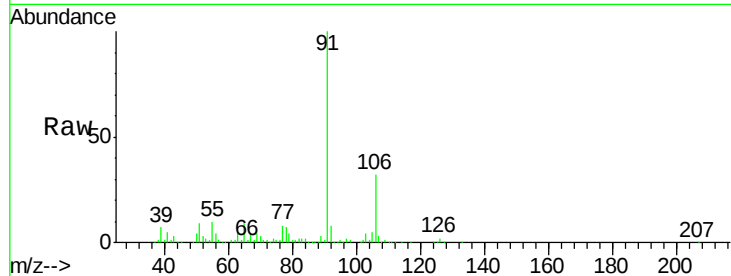




#67  
Ethyl Benzene  
Concen: 15.439 ug/l  
RT: 11.60 min Scan# 1618  
Delta R.T. -0.00 min  
Lab File: VY001473.D  
Acq: 03 Feb 2020 14:44

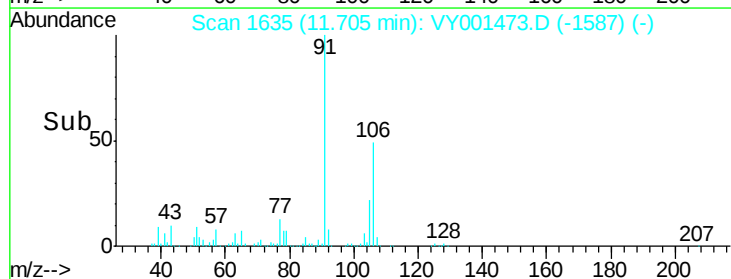
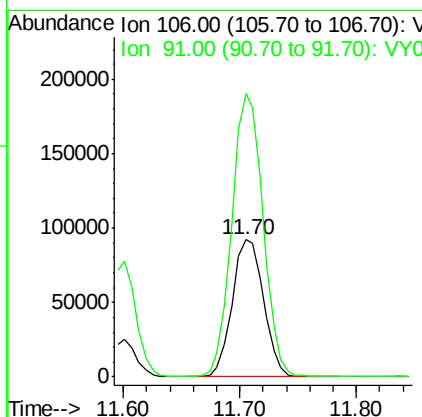
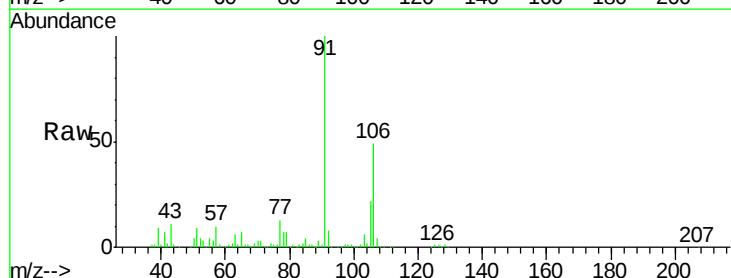
Instrument :  
MSVOA\_Y  
ClientSampleId :  
40628-40629

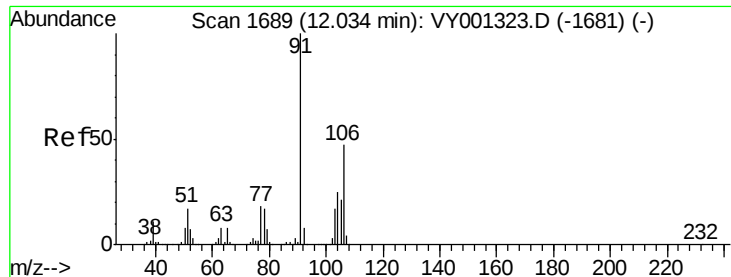
Tot Ion: 91 Resp: 120837  
Ion Ratio Lower Upper  
91 100  
106 32.4 25.4 38.0



#68  
m/p-Xylenes  
Concen: 59.061 ug/l  
RT: 11.70 min Scan# 1635  
Delta R.T. -0.01 min  
Lab File: VY001473.D  
Acq: 03 Feb 2020 14:44

Tgt Ion: 106 Resp: 172650  
Ion Ratio Lower Upper  
106 100  
91 204.6 162.8 244.2

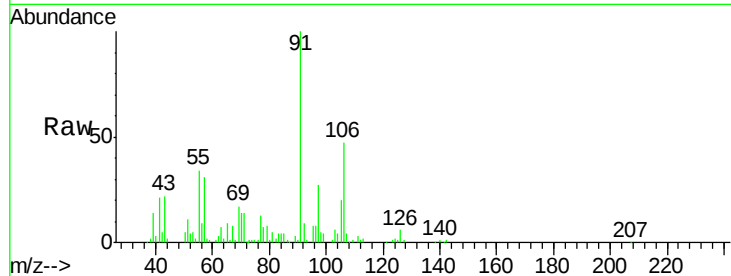




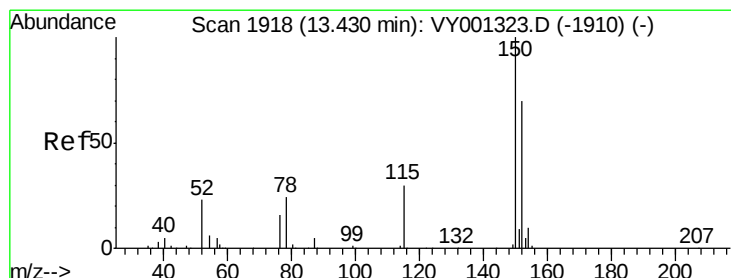
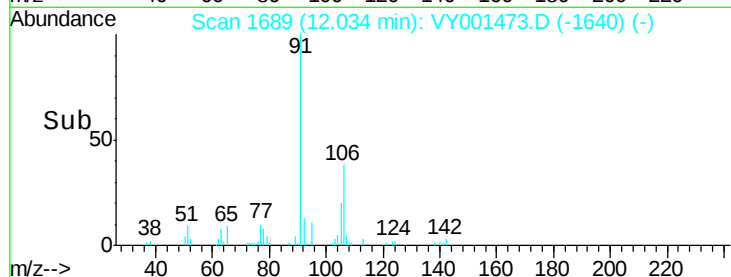
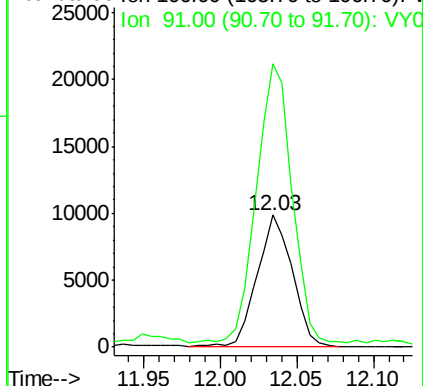
#69  
o-Xylene  
Concen: 5.684 ug/l  
RT: 12.03 min Scan# 1689  
Delta R.T. -0.00 min  
Lab File: VY001473.D  
Acq: 03 Feb 2020 14:44

Instrument :  
MSVOA\_Y  
ClientSampleId :  
40628-40629

Tot Ion:106 Resp: 15984  
Ion Ratio Lower Upper  
106 100  
91 211.5 106.3 319.0

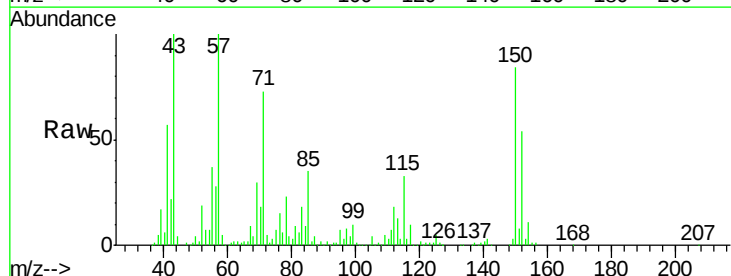


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): VY0

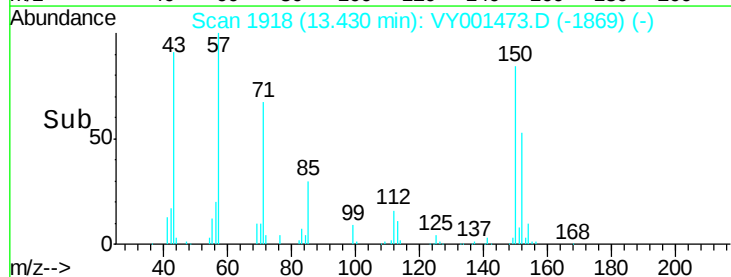
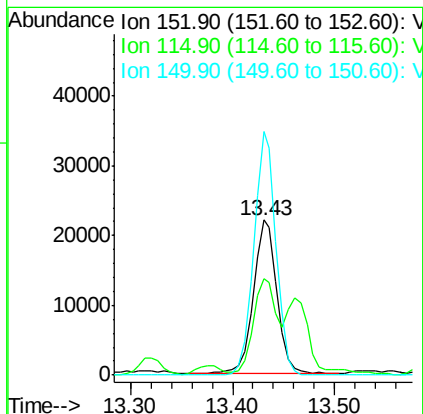


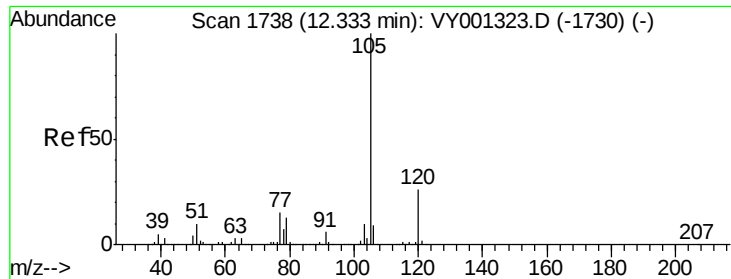
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.43 min Scan# 1918  
Delta R.T. -0.00 min  
Lab File: VY001473.D  
Acq: 03 Feb 2020 14:44

Tgt Ion:152 Resp: 35733  
Ion Ratio Lower Upper  
152 100  
115 61.2 30.9 92.8  
150 148.2 0.0 349.2



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





#73

Isopropylbenzene

Concen: 15.781 ug/l

RT: 12.34 min Scan# 1739

Delta R.T. 0.01 min

Lab File: VY001473.D

Acq: 03 Feb 2020 14:44

Instrument :

MSVOA\_Y

ClientSampleId :

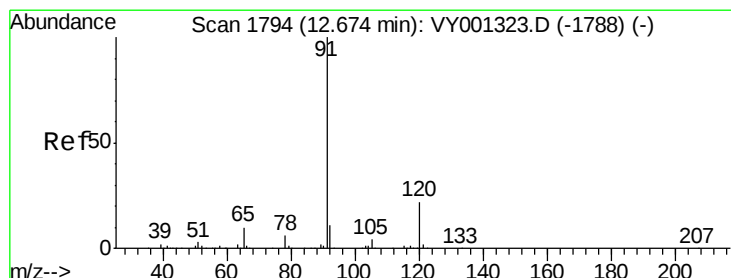
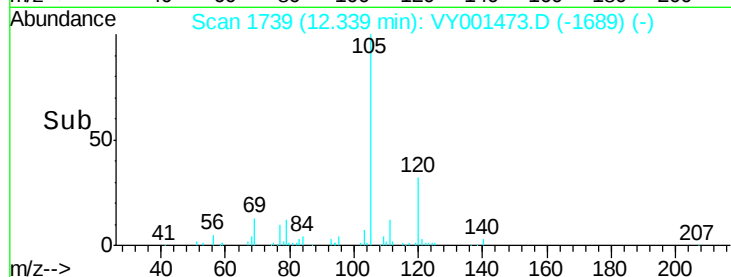
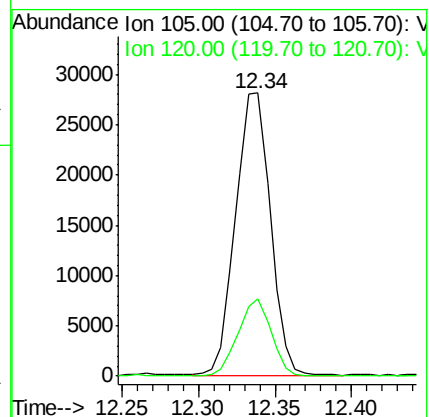
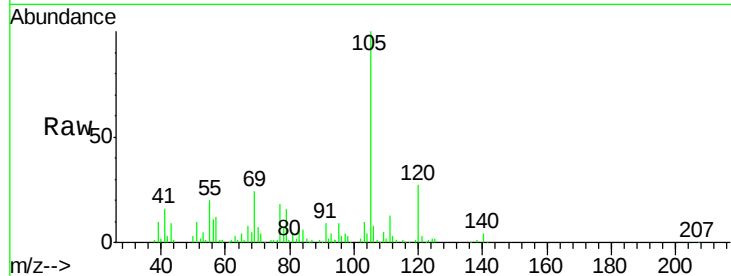
40628-40629

Tot Ion:105 Resp: 44496

Ion Ratio Lower Upper

105 100

120 25.9 13.5 40.4



#78

n-propylbenzene

Concen: 89.102 ug/l

RT: 12.67 min Scan# 1794

Delta R.T. -0.00 min

Lab File: VY001473.D

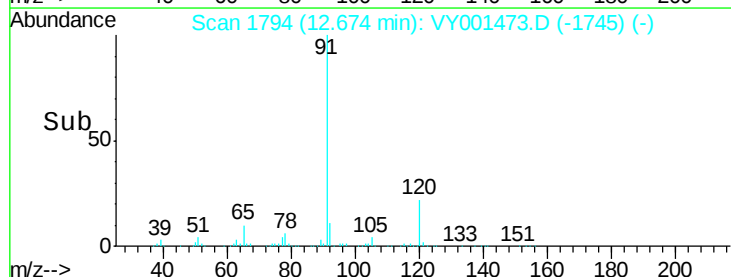
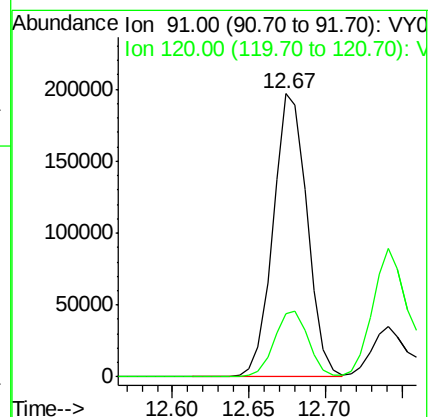
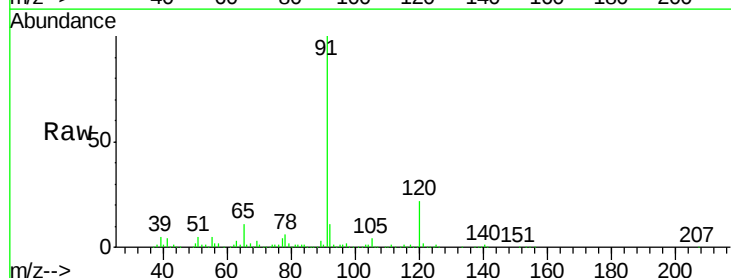
Acq: 03 Feb 2020 14:44

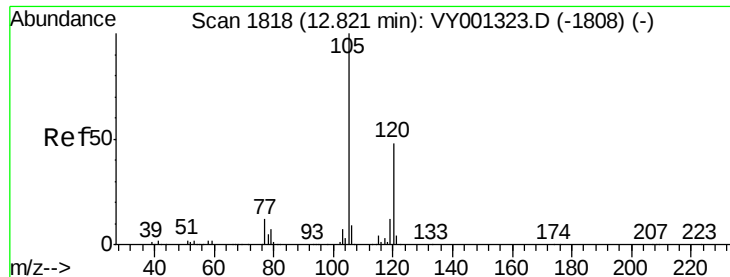
Tgt Ion: 91 Resp: 302398

Ion Ratio Lower Upper

91 100

120 23.4 11.3 33.8





#80

1,3,5-Trimethylbenzene

Concen: 106.875 ug/l

RT: 12.82 min Scan# 1818

Delta R.T. -0.00 min

Lab File: VY001473.D

Acq: 03 Feb 2020 14:44

Instrument :

MSVOA\_Y

ClientSampleId :

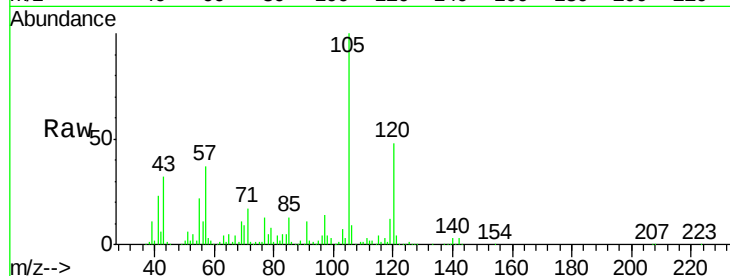
40628-40629

Tot Ion:105 Resp: 251542

Ion Ratio Lower Upper

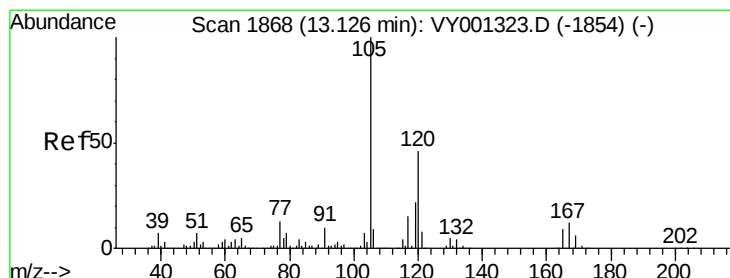
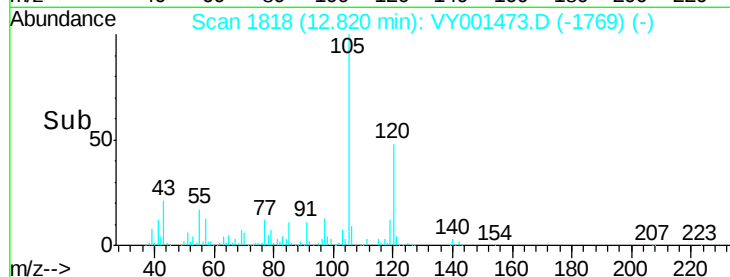
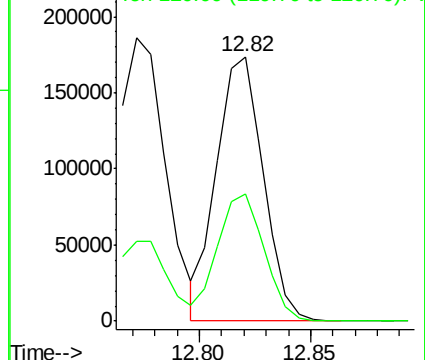
105 100

120 48.6 24.3 72.9



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: 431.270 ug/l

RT: 13.13 min Scan# 1868

Delta R.T. -0.00 min

Lab File: VY001473.D

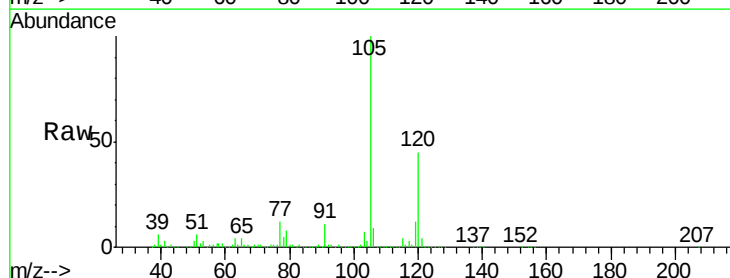
Acq: 03 Feb 2020 14:44

Tgt Ion:105 Resp: 1019075

Ion Ratio Lower Upper

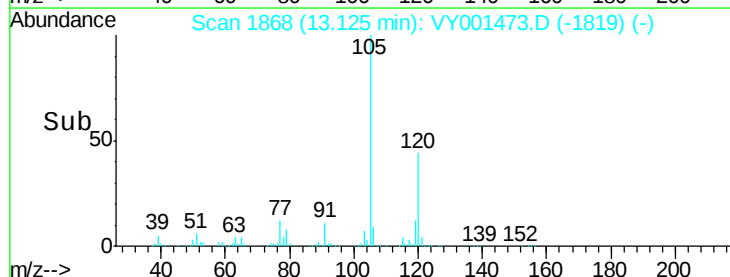
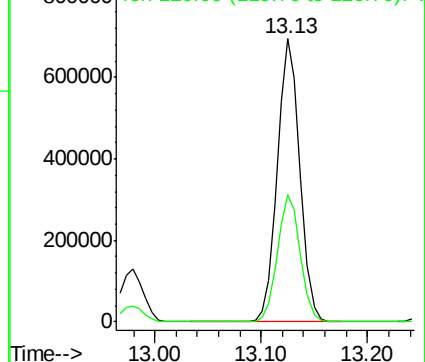
105 100

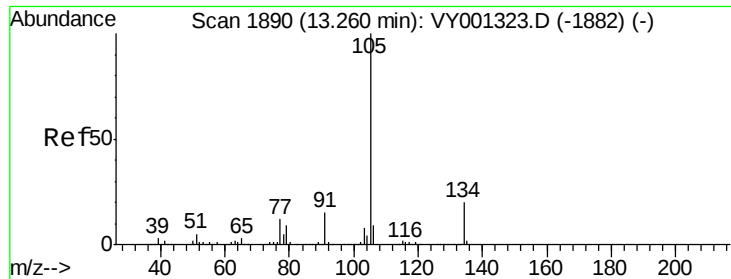
120 45.1 22.4 67.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 17.853 ug/l

RT: 13.26 min Scan# 1890

Delta R.T. -0.00 min

Lab File: VY001473.D

Acq: 03 Feb 2020 14:44

Instrument :

MSVOA\_Y

ClientSampleId :

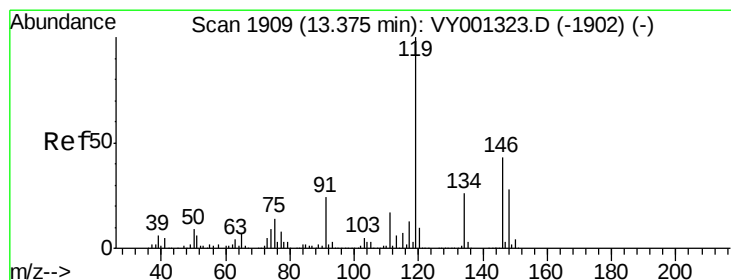
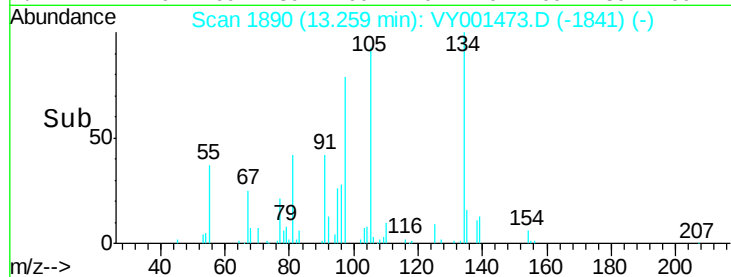
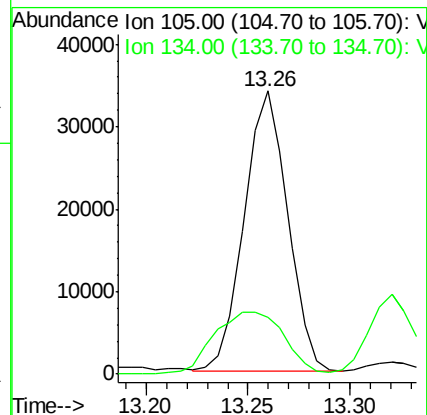
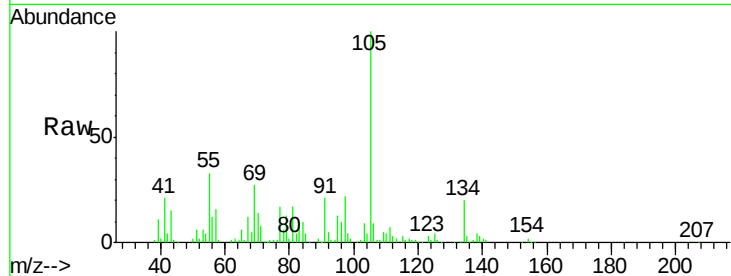
40628-40629

Tot Ion:105 Resp: 50324

Ion Ratio Lower Upper

105 100

134 35.8 9.8 29.4#



#86

p-Isopropyltoluene

Concen: 11.344 ug/l

RT: 13.38 min Scan# 1909

Delta R.T. -0.00 min

Lab File: VY001473.D

Acq: 03 Feb 2020 14:44

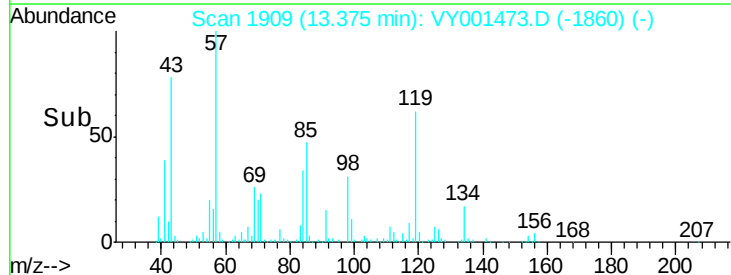
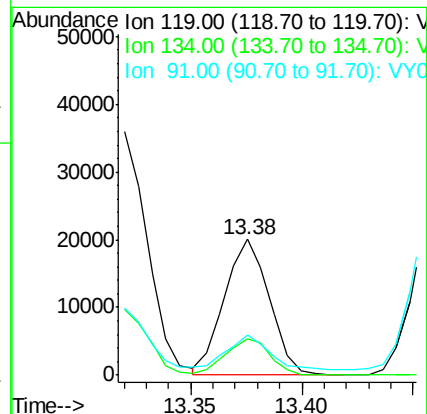
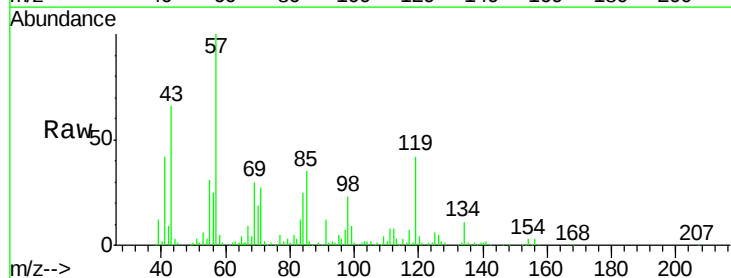
Tgt Ion:119 Resp: 28177

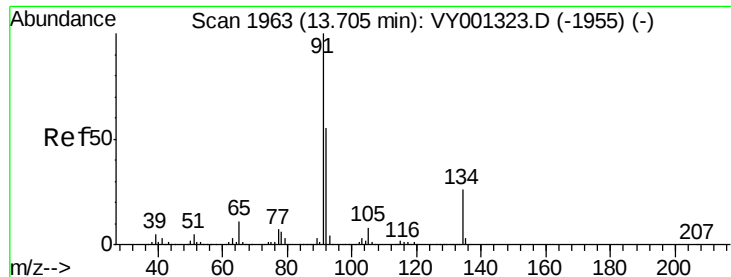
Ion Ratio Lower Upper

119 100

134 26.5 13.5 40.4

91 24.6 12.2 36.6

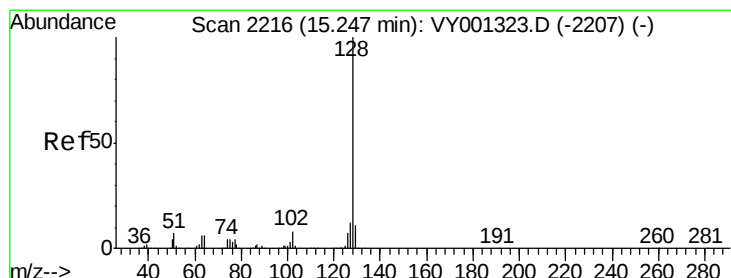
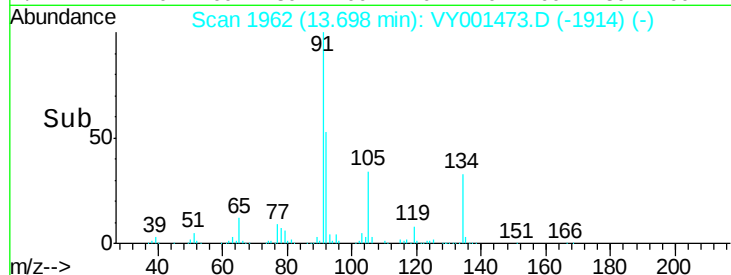
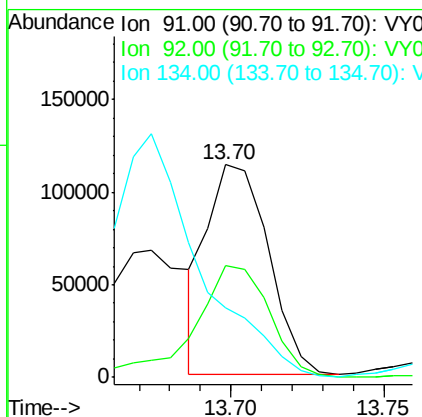
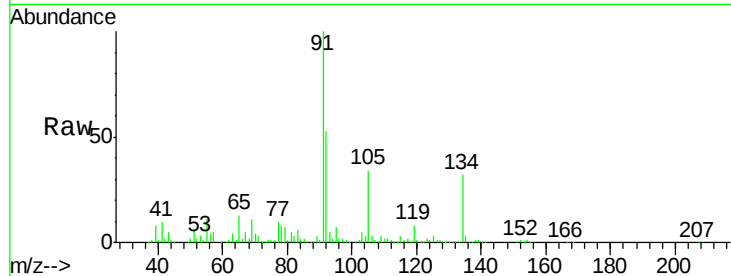




#89  
n-Butylbenzene  
Concen: 62.454 ug/l  
RT: 13.70 min Scan# 1962  
Delta R.T. -0.01 min  
Lab File: VY001473.D  
Acq: 03 Feb 2020 14:44

Instrument :  
MSVOA\_Y  
ClientSampleId :  
40628-40629

Tot Ion: 91 Resp: 156130  
Ion Ratio Lower Upper  
91 100  
92 65.9 27.6 82.8  
134 0.0 12.9 38.6#



#95  
Naphthalene  
Concen: 931.790 ug/l  
RT: 15.24 min Scan# 2215  
Delta R.T. -0.01 min  
Lab File: VY001473.D  
Acq: 03 Feb 2020 14:44

Tgt Ion: 128 Resp: 1586212  
Ion Ratio Lower Upper  
128 100  
127 12.8 10.2 15.2  
129 10.9 8.7 13.1

