

Data Path : Z:\VOASRV\HPCHEM1\MSVOA Y\DATA\VY011720\  
 Data File : VY001285.D  
 Acq On : 17 Jan 2020 22:44  
 Operator : SY/MD  
 Sample : L1012-01  
 Misc : 6.58G/5ML/MSVOA Y/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 EO-02-011620

Quant Time: Jan 18 05:04:02 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y011020S.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jan 10 16:01:58 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.83  | 168  | 189531   | 50.00 | ug/l  | 0.03     |
| 34) 1,4-Difluorobenzene    | 8.72  | 114  | 339292   | 50.00 | ug/l  | 0.03     |
| 63) Chlorobenzene-d5       | 11.51 | 117  | 297500   | 50.00 | ug/l  | 0.02     |
| 72) 1,4-Dichlorobenzene-d4 | 13.44 | 152  | 124793   | 50.00 | ug/l  | 0.02     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.18  | 65   | 105836   | 52.87 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 105.74% |          |
| 35) Dibromofluoromethane    | 7.75  | 113  | 99471    | 50.07 | ug/l    | 0.03     |
| Spiked Amount               |       |      | Recovery | =     | 100.14% |          |
| 50) Toluene-d8              | 10.21 | 98   | 397300   | 51.90 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 103.80% |          |
| 62) 4-Bromofluorobenzene    | 12.50 | 95   | 141920   | 45.35 | ug/l    | 0.02     |
| Spiked Amount               |       |      | Recovery | =     | 90.70%  |          |

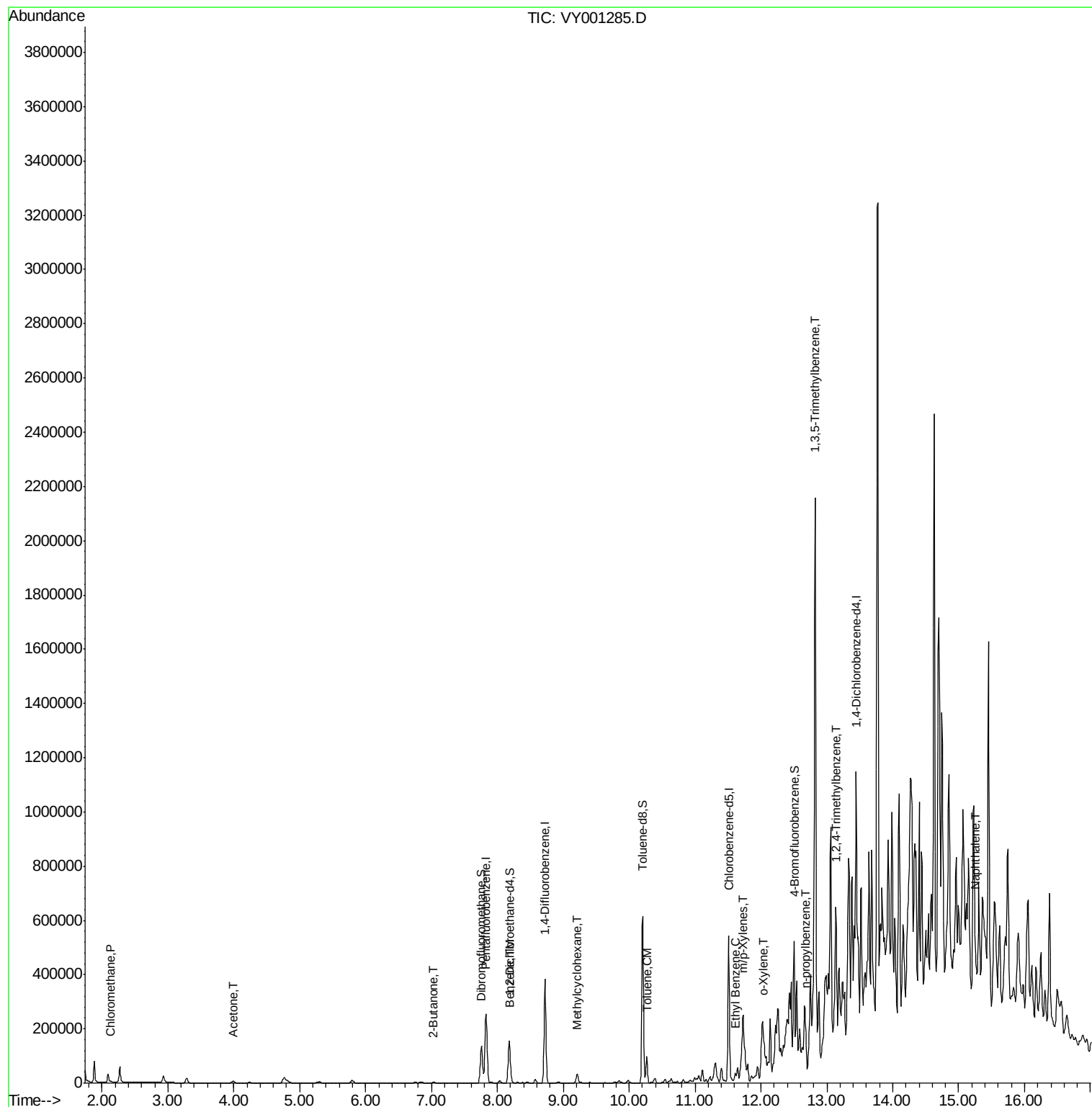
| Target Compounds           | R.T.  | QIon | Response | Conc   | Units  | Qvalue |
|----------------------------|-------|------|----------|--------|--------|--------|
| 3) Chloromethane           | 2.13  | 50   | 3322     | 1.583  | ug/l   | 96     |
| 16) Acetone                | 3.99  | 43   | 10210    | 21.962 | ug/l   | 95     |
| 25) 2-Butanone             | 7.03  | 43   | 2690     | 3.718  | ug/l # | 83     |
| 39) Methylcyclohexane      | 9.21  | 83   | 12897    | 3.076  | ug/l   | 99     |
| 40) Benzene                | 8.20  | 78   | 27627    | 3.060  | ug/l   | 96     |
| 52) Toluene                | 10.27 | 92   | 41754    | 7.252  | ug/l   | 100    |
| 67) Ethyl Benzene          | 11.61 | 91   | 14512    | 1.335  | ug/l   | 97     |
| 68) m/p-Xylenes            | 11.72 | 106  | 28219    | 6.879  | ug/l   | 99     |
| 69) o-Xylene               | 12.05 | 106  | 16455    | 4.184  | ug/l   | 95     |
| 78) n-propylbenzene        | 12.69 | 91   | 30174    | 2.674  | ug/l   | 96     |
| 80) 1,3,5-Trimethylbenzene | 12.83 | 105  | 225804   | 28.847 | ug/l   | 99     |
| 84) 1,2,4-Trimethylbenzene | 13.14 | 105  | 238376   | 30.665 | ug/l   | 100    |
| 95) Naphthalene            | 15.25 | 128  | 37731    | 6.751  | ug/l # | 79     |

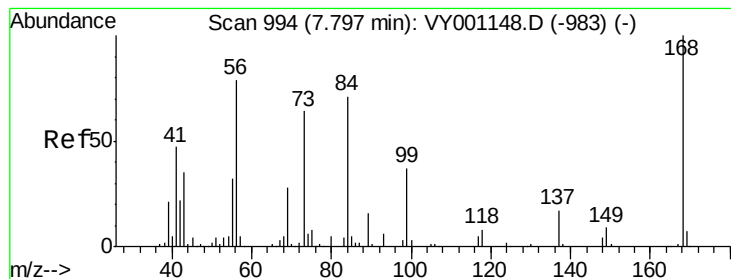
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA Y\DATA\VY011720\  
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MSVOA\_Y  
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EO-02-011620

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_Y\METHODS\82Y011020S.M  
Quant Title : SW846 8260  
QLast Update : Fri Jan 10 16:01:58 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.83 min Scan# 999

Delta R.T. 0.03 min

Lab File: VY001285.D

Acq: 17 Jan 2020 22:44

Instrument :

MSVOA\_Y

ClientSampleId :

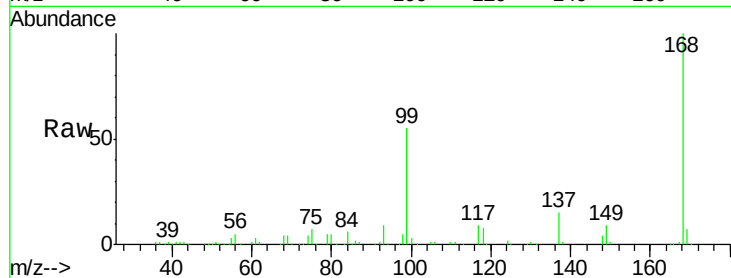
EO-02-011620

Tot Ion:168 Resp: 189531

Ion Ratio Lower Upper

168 100

99 55.2 47.9 71.9



Abundance Ion 167.90 (167.60 to 168.60): VY001148.D (-983) (-)

Ion 98.90 (98.60 to 99.60): VY001148.D (-983) (-)

7.83

80000

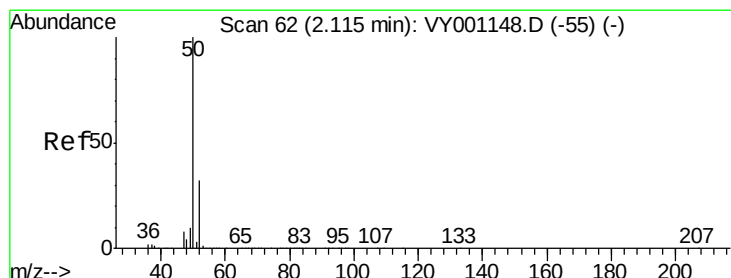
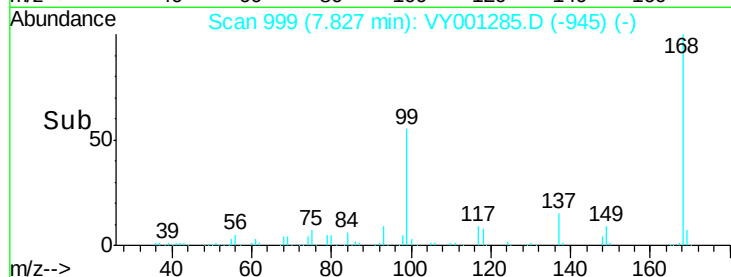
60000

40000

20000

0

Time--> 7.70 7.80 7.90



#3

Chloromethane

Concen: 1.583 ug/l

RT: 2.13 min Scan# 65

Delta R.T. 0.02 min

Lab File: VY001285.D

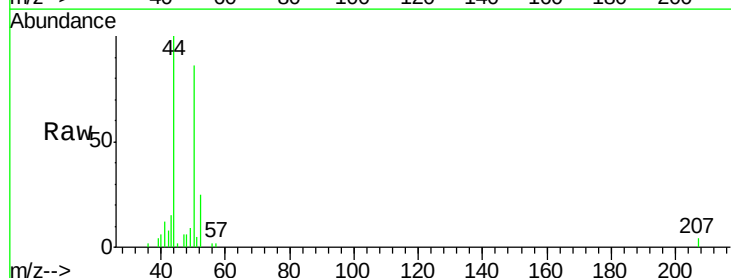
Acq: 17 Jan 2020 22:44

Tgt Ion: 50 Resp: 3322

Ion Ratio Lower Upper

50 100

52 29.7 25.8 38.6



Abundance Ion 49.90 (49.60 to 50.60): VY001148.D (-55) (-)

Ion 51.90 (51.60 to 52.60): VY001148.D (-55) (-)

2.13

2500

2000

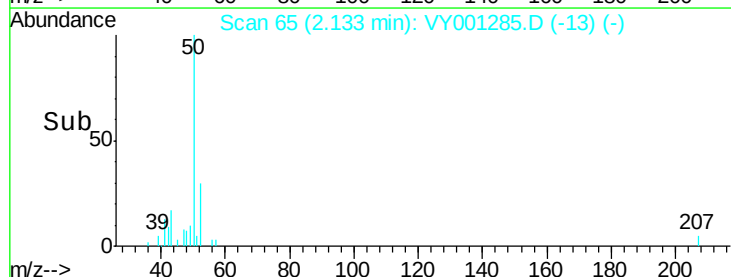
1500

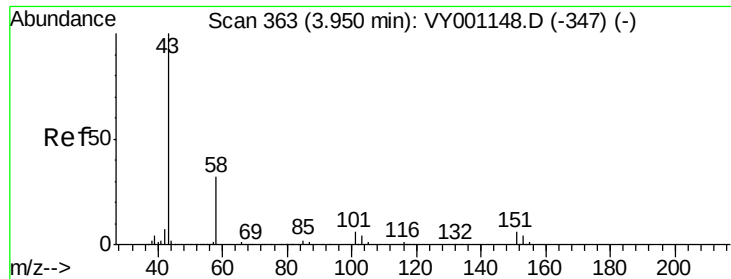
1000

500

0

Time--> 2.10 2.15 2.20





#16

Acetone

Concen: 21.962 ug/l

RT: 3.99 min Scan# 370

Delta R.T. 0.04 min

Lab File: VY001285.D

Acq: 17 Jan 2020 22:44

Instrument :

MSVOA\_Y

ClientSampleId :

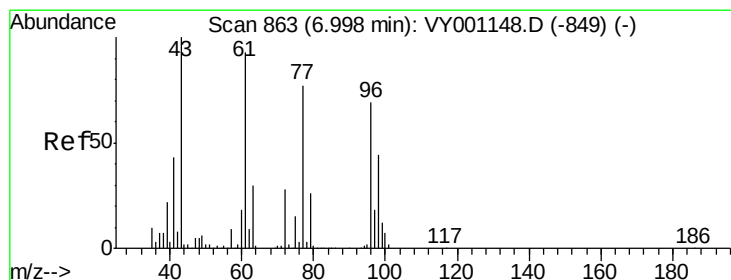
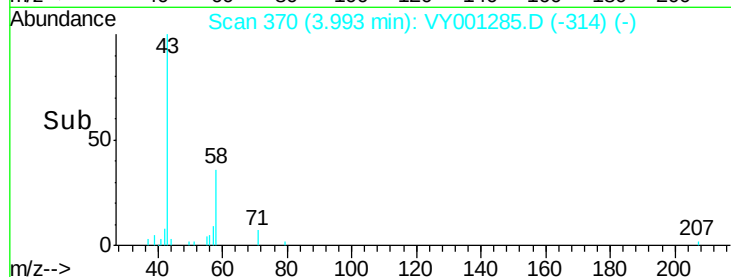
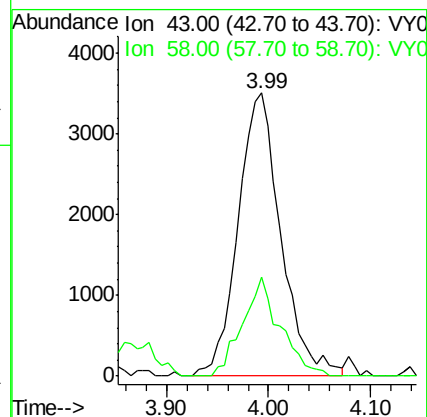
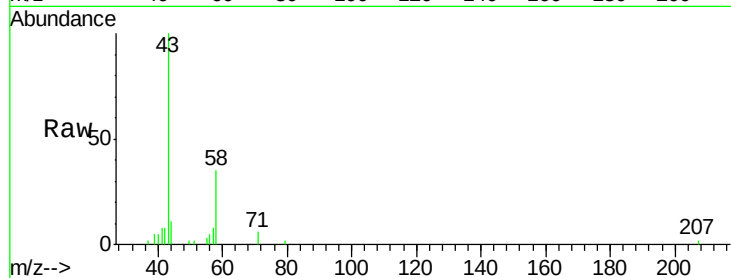
EO-02-011620

Tot Ion: 43 Resp: 10210

Ion Ratio Lower Upper

43 100

58 35.0 25.8 38.6



#25

2-Butanone

Concen: 3.718 ug/l

RT: 7.03 min Scan# 868

Delta R.T. 0.03 min

Lab File: VY001285.D

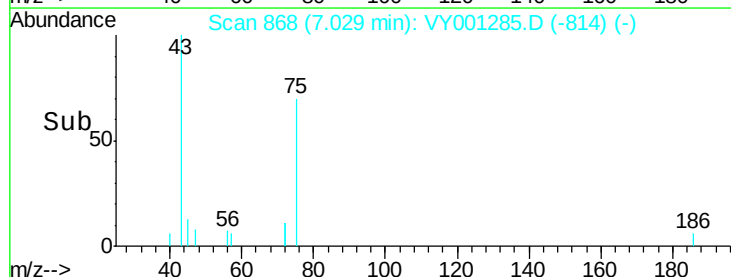
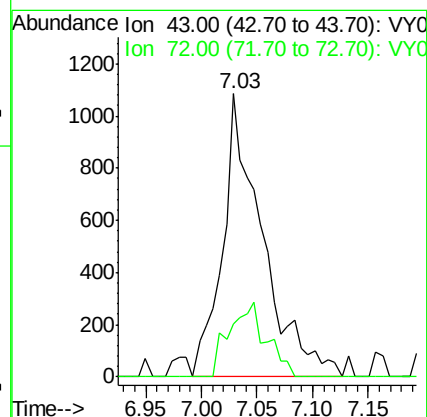
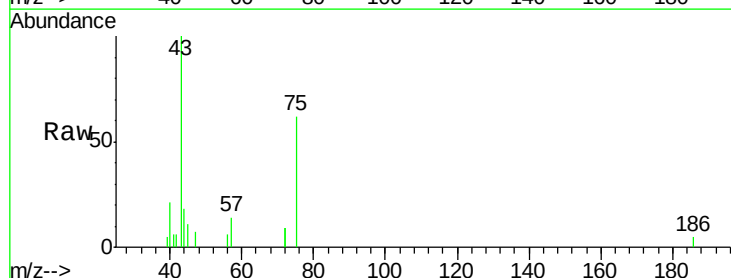
Acq: 17 Jan 2020 22:44

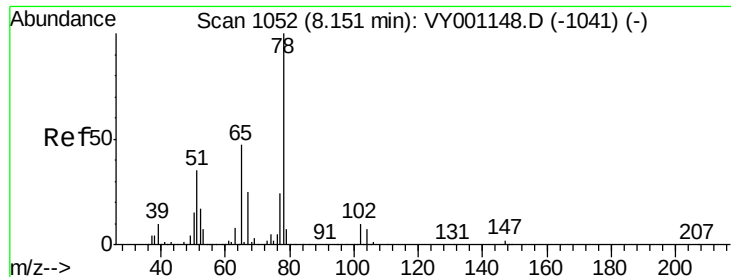
Tgt Ion: 43 Resp: 2690

Ion Ratio Lower Upper

43 100

72 18.9 22.2 33.2#

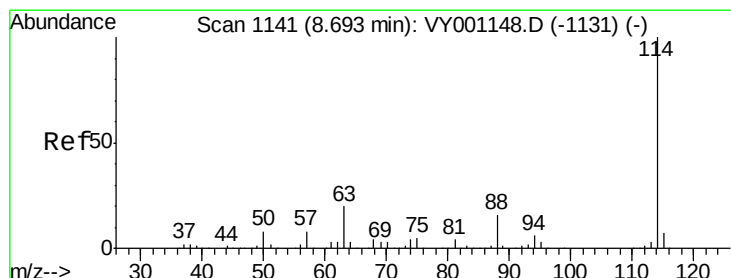
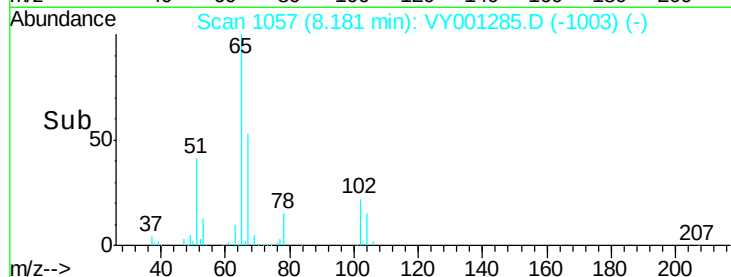
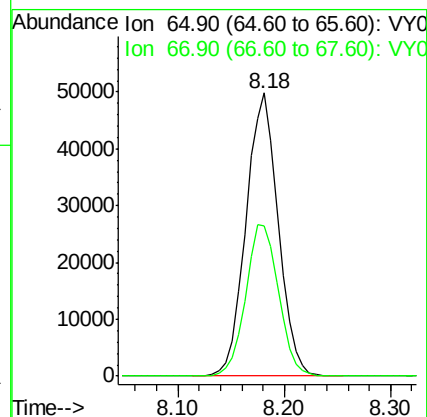
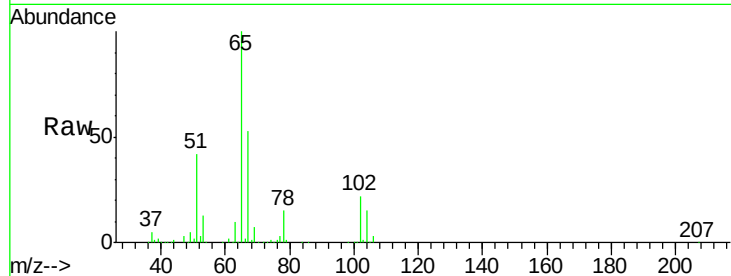




#33  
 1,2-Dichloroethane-d4  
 Concen: 52.871 ug/l  
 RT: 8.18 min Scan# 1057  
 Delta R.T. 0.03 min  
 Lab File: VY001285.D  
 Acq: 17 Jan 2020 22:44

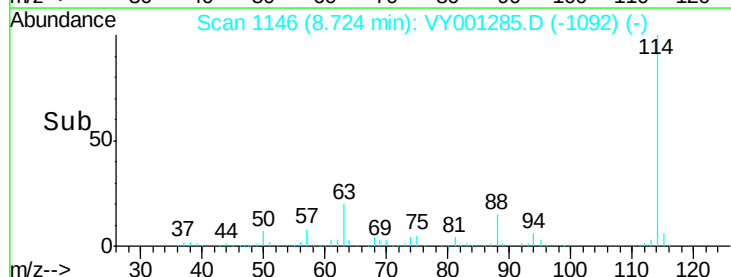
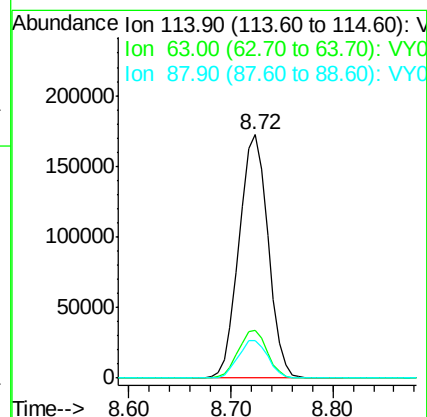
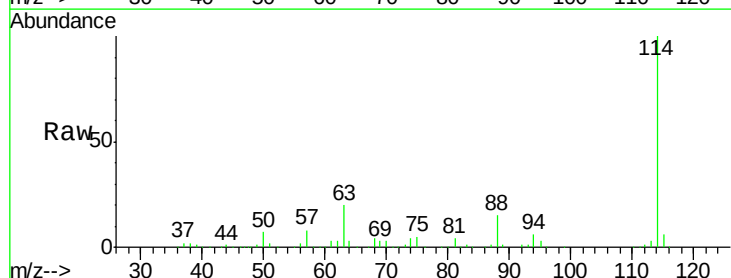
Instrument :  
 MSVOA\_Y  
 ClientSampled :  
 EO-02-011620

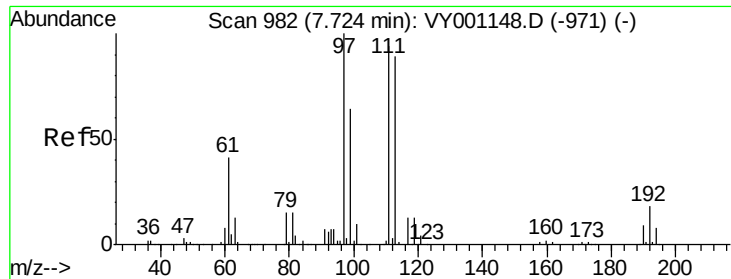
Tot Ion: 65 Resp: 105836  
 Ion Ratio Lower Upper  
 65 100  
 67 54.6 0.0 105.2



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.72 min Scan# 1146  
 Delta R.T. 0.03 min  
 Lab File: VY001285.D  
 Acq: 17 Jan 2020 22:44

Tgt Ion: 114 Resp: 339292  
 Ion Ratio Lower Upper  
 114 100  
 63 19.6 0.0 40.8  
 88 15.3 0.0 32.4





#35

Dibromofluoromethane

Concen: 50.072 ug/l

RT: 7.75 min Scan# 987

Delta R.T. 0.03 min

Lab File: VY001285.D

Acq: 17 Jan 2020 22:44

Instrument :

MSVOA\_Y

ClientSampleId :

EO-02-011620

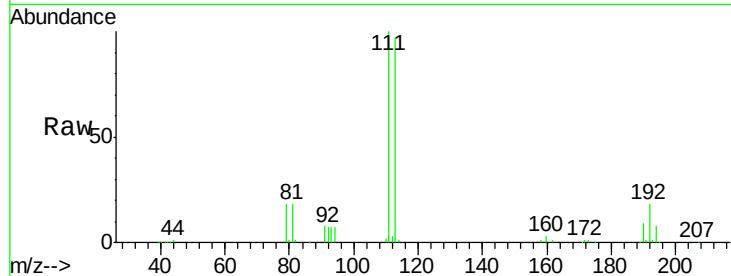
Tot Ion:113 Resp: 99471

Ion Ratio Lower Upper

113 100

111 104.1 82.9 124.3

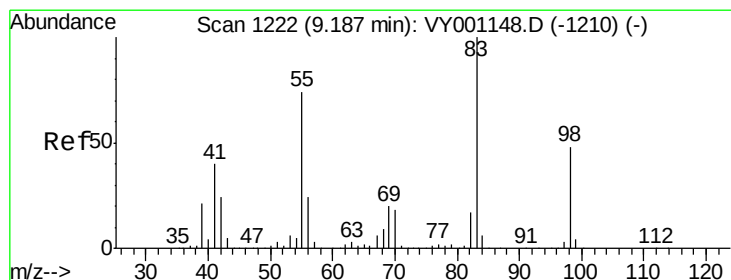
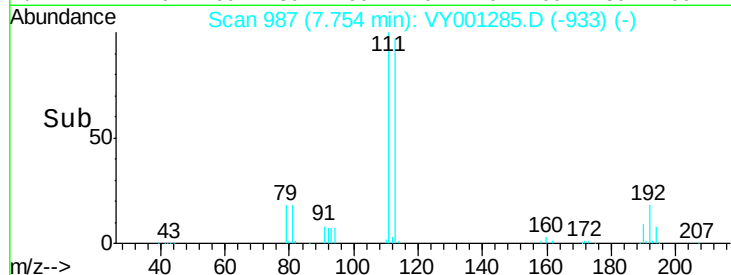
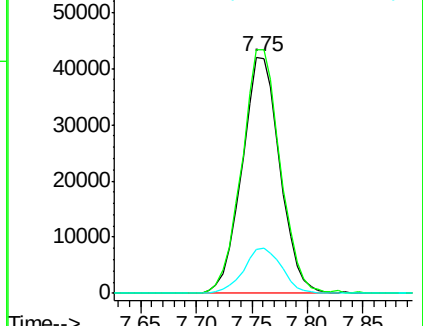
192 19.3 15.4 23.2



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



#39

Methylcyclohexane

Concen: 3.076 ug/l

RT: 9.21 min Scan# 1226

Delta R.T. 0.02 min

Lab File: VY001285.D

Acq: 17 Jan 2020 22:44

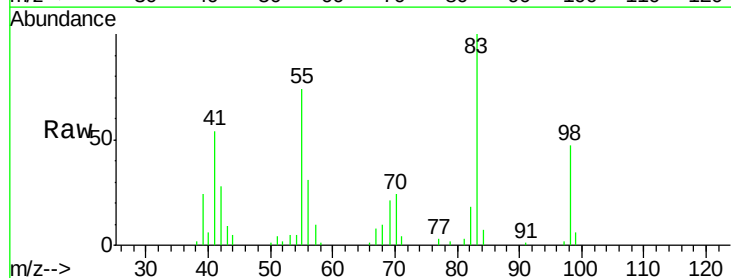
Tgt Ion: 83 Resp: 12897

Ion Ratio Lower Upper

83 100

55 74.2 58.9 88.3

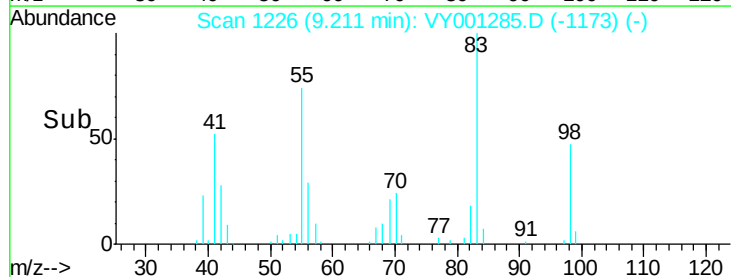
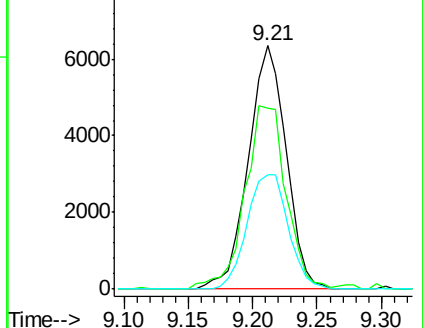
98 47.2 38.4 57.6

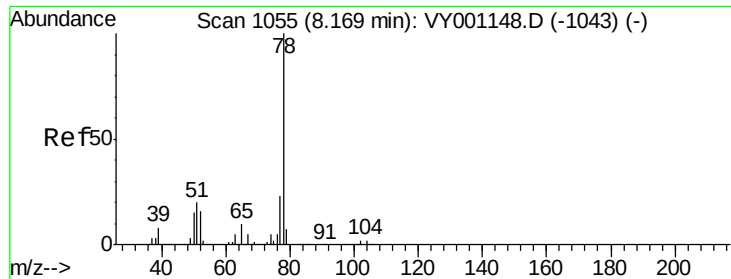


Abundance Ion 83.00 (82.70 to 83.70): VY0

Ion 55.00 (54.70 to 55.70): VY0

Ion 98.00 (97.70 to 98.70): VY0





#40

Benzene

Concen: 3.060 ug/l

RT: 8.20 min Scan# 1060

Delta R.T. 0.03 min

Lab File: VY001285.D

Acq: 17 Jan 2020 22:44

Instrument :

MSVOA\_Y

ClientSampleId :

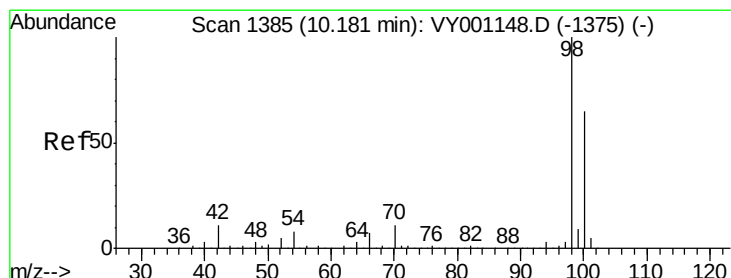
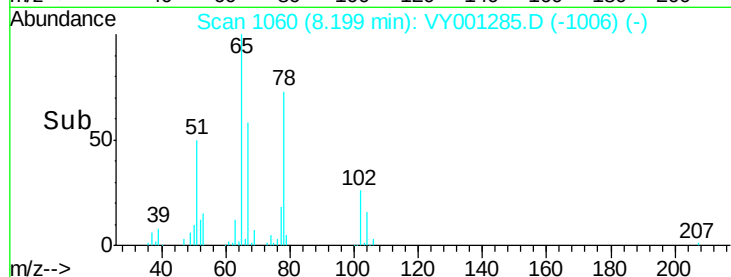
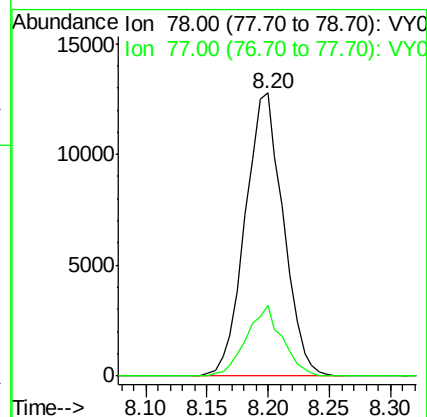
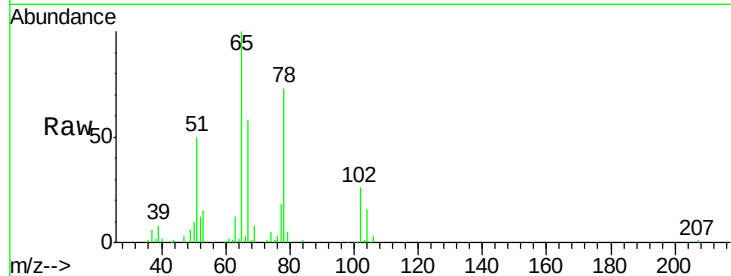
EO-02-011620

Tot Ion: 78 Resp: 27627

Ion Ratio Lower Upper

78 100

77 25.2 18.8 28.2



#50

Toluene-d8

Concen: 51.904 ug/l

RT: 10.21 min Scan# 1389

Delta R.T. 0.02 min

Lab File: VY001285.D

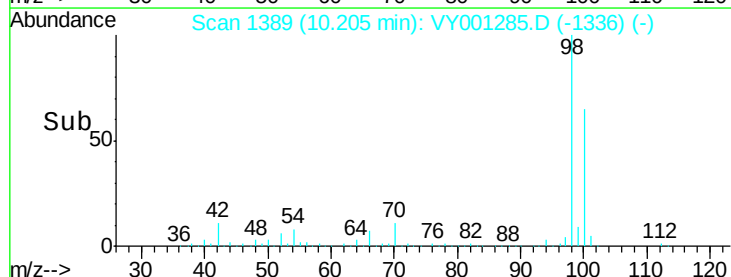
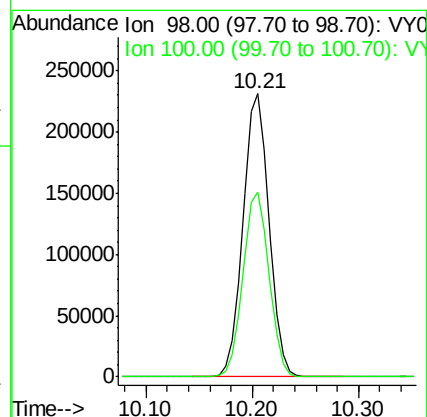
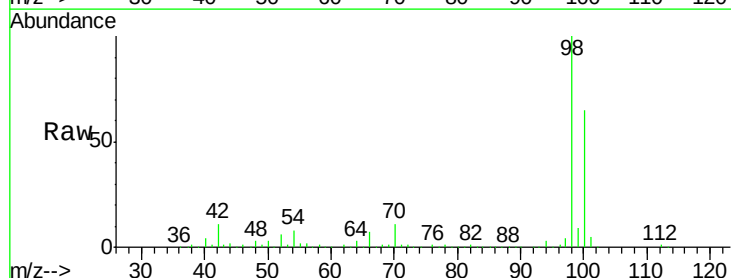
Acq: 17 Jan 2020 22:44

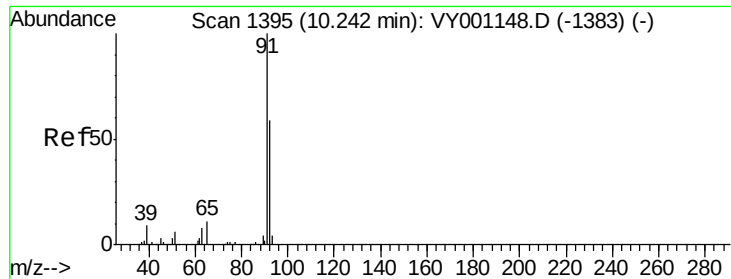
Tgt Ion: 98 Resp: 397300

Ion Ratio Lower Upper

98 100

100 65.3 53.1 79.7





#52

Toluene

Concen: 7.252 ug/l

RT: 10.27 min Scan# 1399

Delta R.T. 0.02 min

Lab File: VY001285.D

Acq: 17 Jan 2020 22:44

Instrument :

MSVOA\_Y

ClientSampleId :

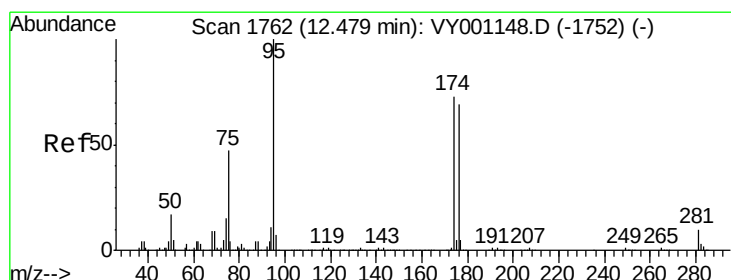
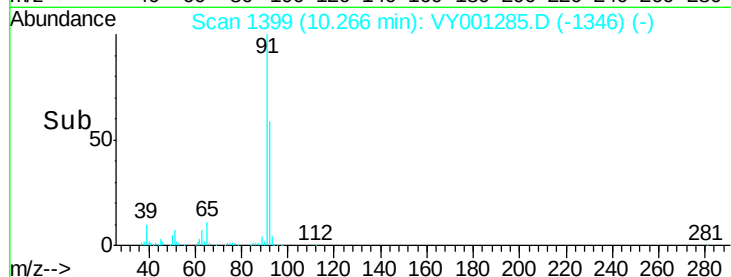
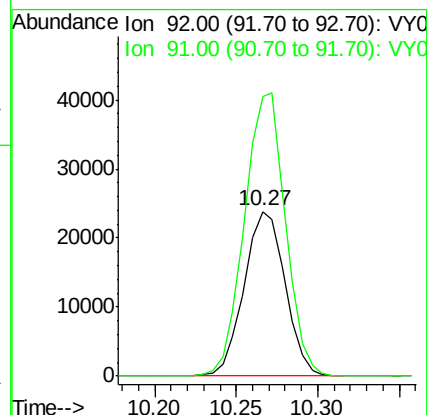
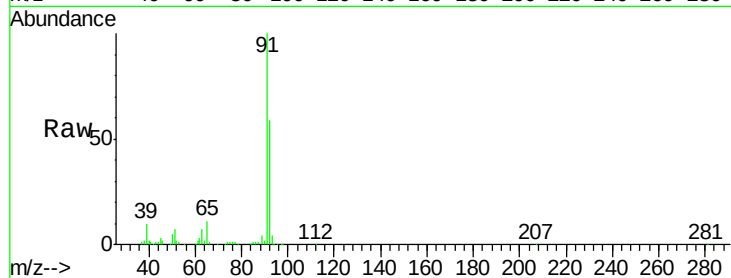
EO-02-011620

Tot Ion: 92 Resp: 41754

Ion Ratio Lower Upper

92 100

91 171.3 136.6 204.8



#62

4-Bromofluorobenzene

Concen: 45.351 ug/l

RT: 12.50 min Scan# 1765

Delta R.T. 0.02 min

Lab File: VY001285.D

Acq: 17 Jan 2020 22:44

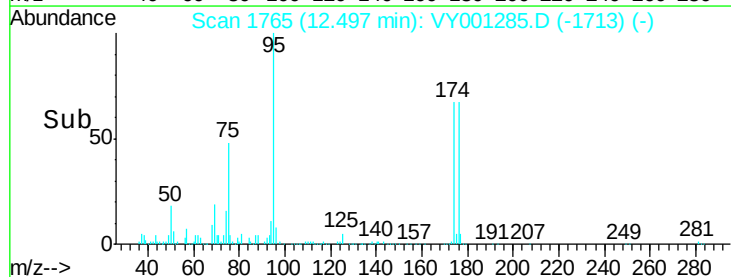
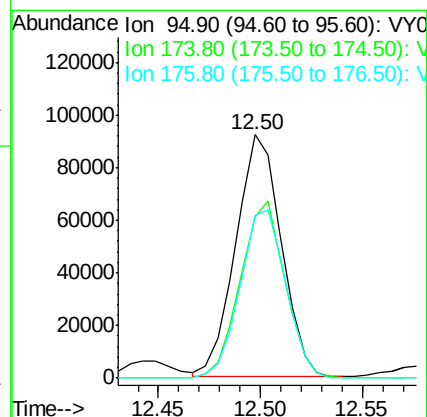
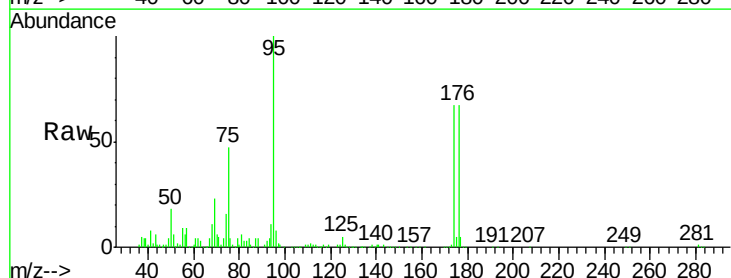
Tgt Ion: 95 Resp: 141920

Ion Ratio Lower Upper

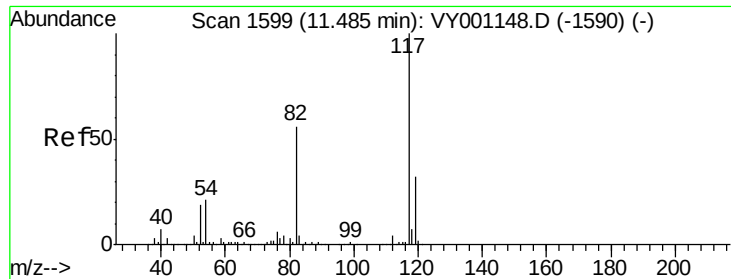
95 100

174 72.3 0.0 143.2

176 70.2 0.0 136.0



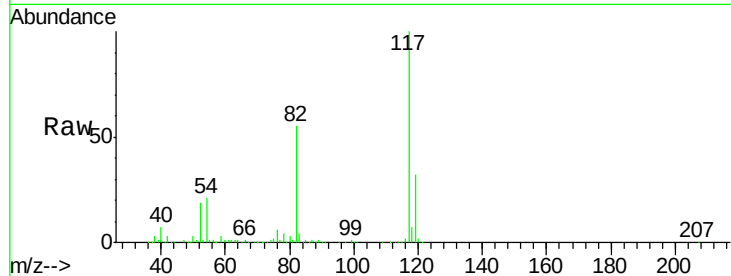




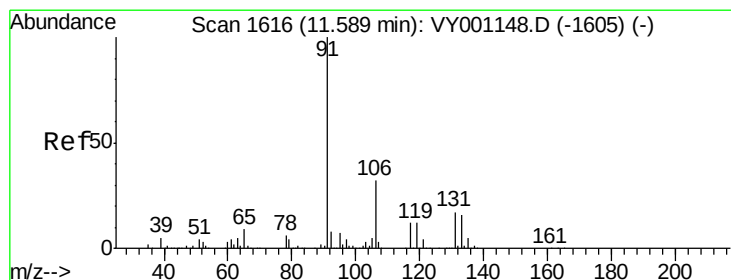
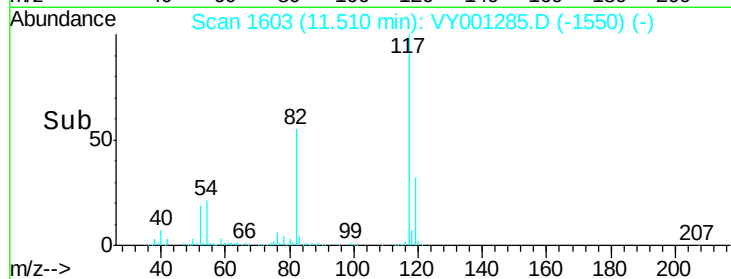
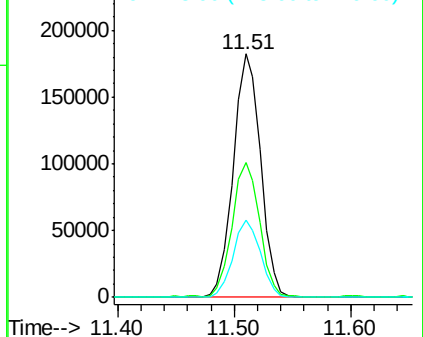
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.51 min Scan# 1603  
Delta R.T. 0.02 min  
Lab File: VY001285.D  
Acq: 17 Jan 2020 22:44

Instrument :  
MSVOA\_Y  
ClientSampleId :  
EO-02-011620

Tot Ion:117 Resp: 297500  
Ion Ratio Lower Upper  
117 100  
82 55.0 44.9 67.3  
119 31.7 25.7 38.5

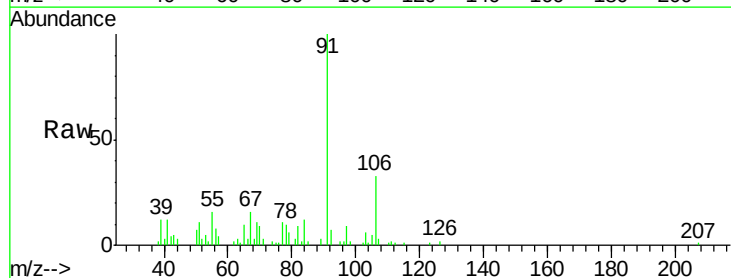


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): VY0  
Ion 118.90 (118.60 to 119.60): V

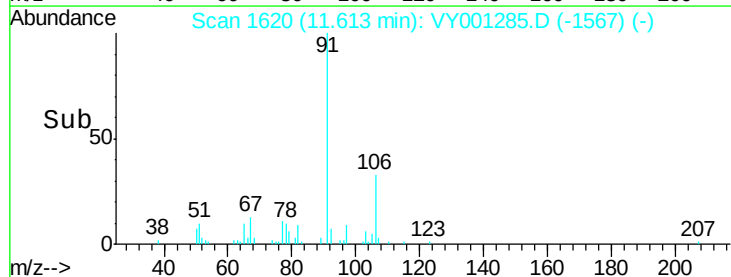
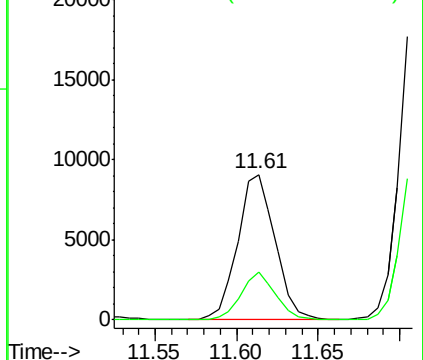


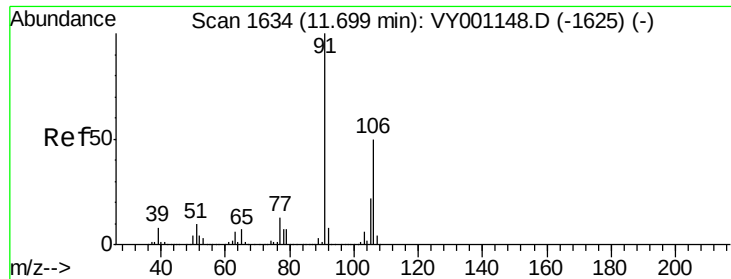
#67  
Ethyl Benzene  
Concen: 1.335 ug/l  
RT: 11.61 min Scan# 1620  
Delta R.T. 0.02 min  
Lab File: VY001285.D  
Acq: 17 Jan 2020 22:44

Tgt Ion: 91 Resp: 14512  
Ion Ratio Lower Upper  
91 100  
106 33.0 25.3 37.9



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

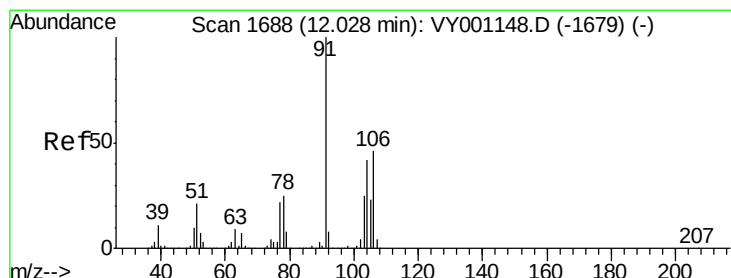
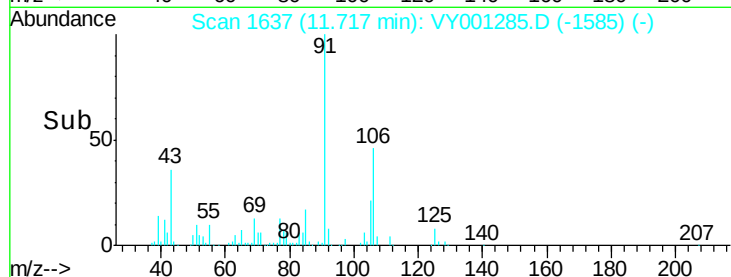
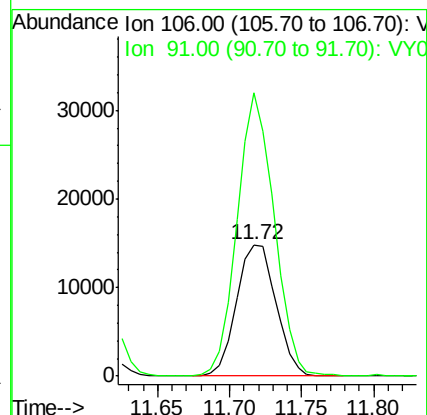
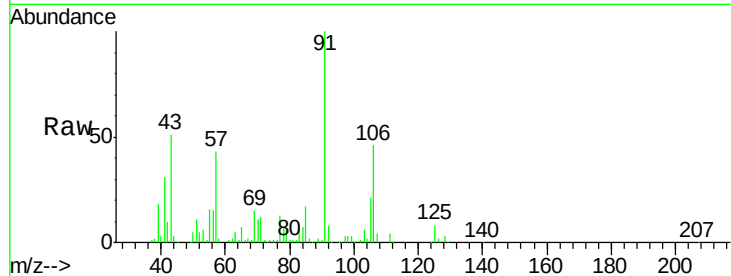




#68  
m/p-Xylenes  
Concen: 6.879 ug/l  
RT: 11.72 min Scan# 1637  
Delta R.T. 0.02 min  
Lab File: VY001285.D  
Acq: 17 Jan 2020 22:44

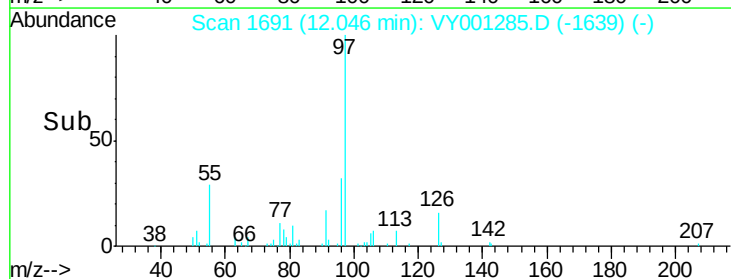
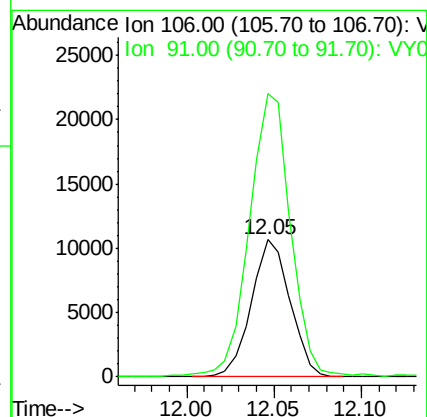
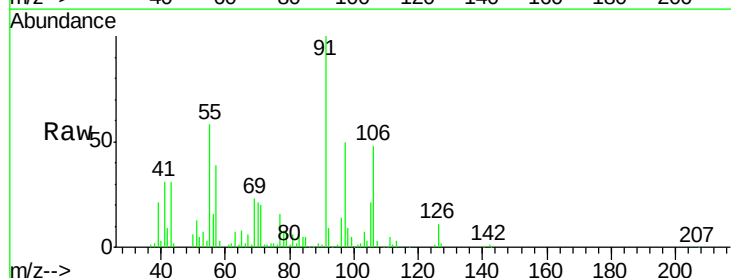
Instrument :  
MSVOA\_Y  
ClientSampleId :  
EO-02-011620

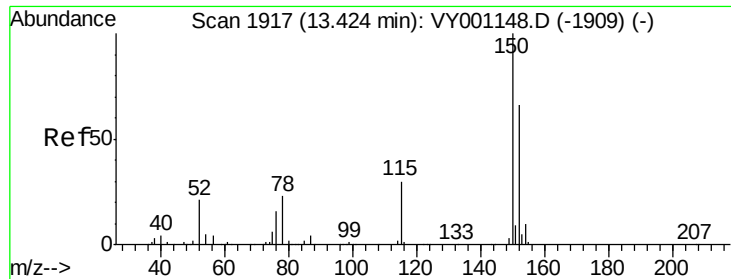
Tot Ion:106 Resp: 28219  
Ion Ratio Lower Upper  
106 100  
91 202.8 161.4 242.2



#69  
o-Xylene  
Concen: 4.184 ug/l  
RT: 12.05 min Scan# 1691  
Delta R.T. 0.02 min  
Lab File: VY001285.D  
Acq: 17 Jan 2020 22:44

Tgt Ion:106 Resp: 16455  
Ion Ratio Lower Upper  
106 100  
91 219.9 106.3 318.8





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.44 min Scan# 1920

Delta R.T. 0.02 min

Lab File: VY001285.D

Acq: 17 Jan 2020 22:44

Instrument :

MSVOA\_Y

ClientSampleId :

EO-02-011620

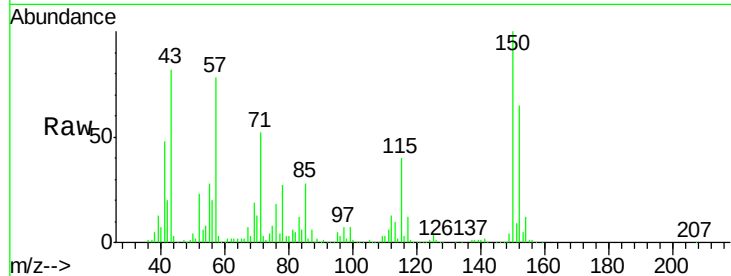
Tot Ion:152 Resp: 124793

Ion Ratio Lower Upper

152 100

115 63.9 30.9 92.5

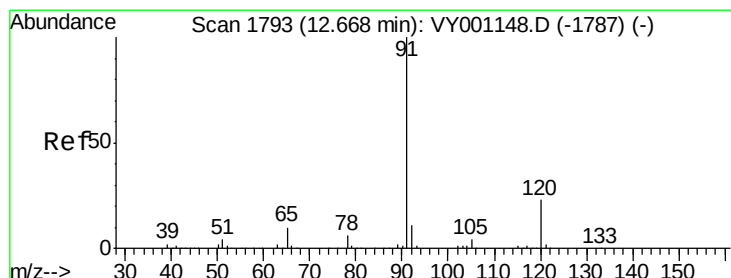
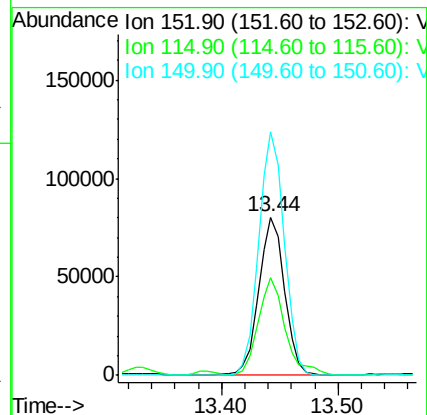
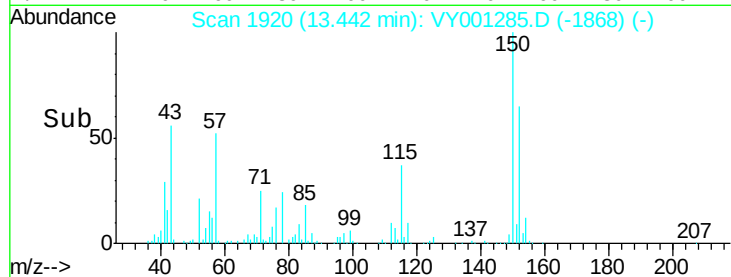
150 152.0 0.0 346.8



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



#78

n-propylbenzene

Concen: 2.674 ug/l

RT: 12.69 min Scan# 1796

Delta R.T. 0.02 min

Lab File: VY001285.D

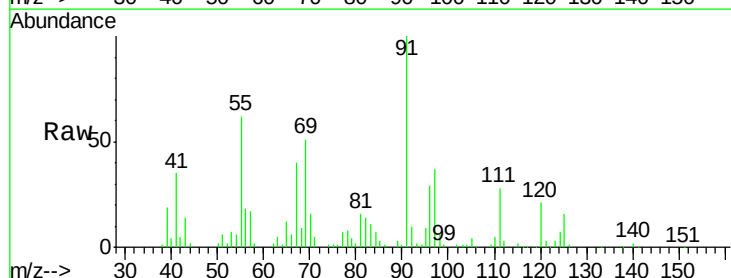
Acq: 17 Jan 2020 22:44

Tgt Ion: 91 Resp: 30174

Ion Ratio Lower Upper

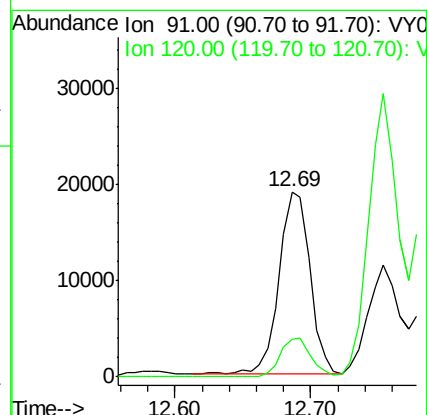
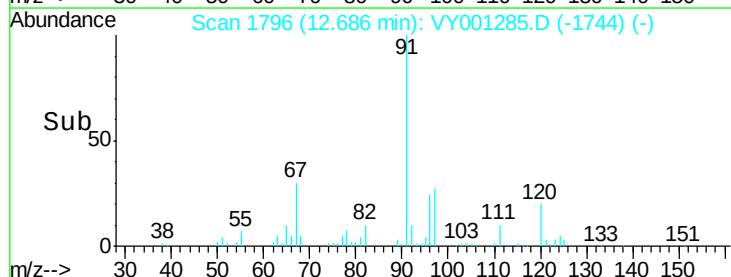
91 100

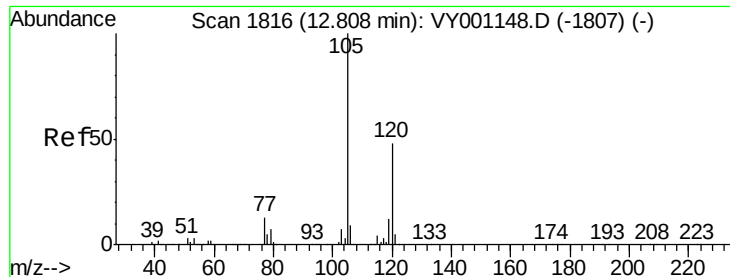
120 21.1 11.5 34.4



Abundance Ion 91.00 (90.70 to 91.70): VY0

Ion 120.00 (119.70 to 120.70): V

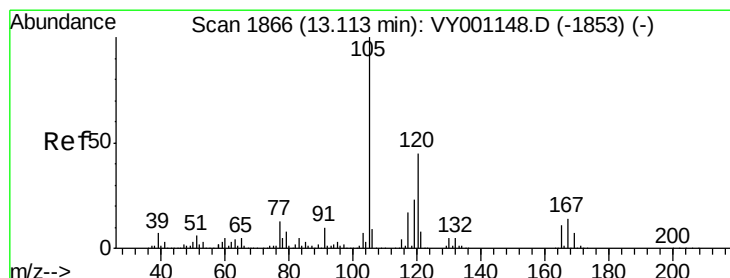
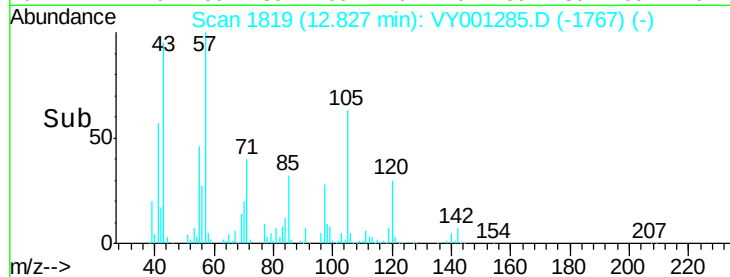
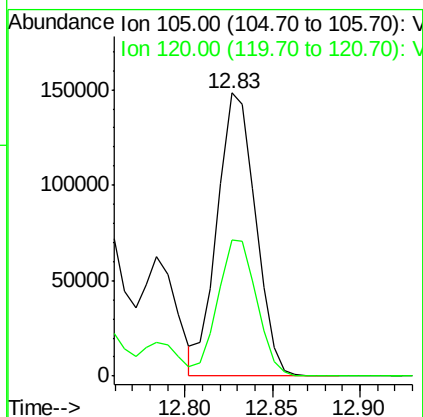
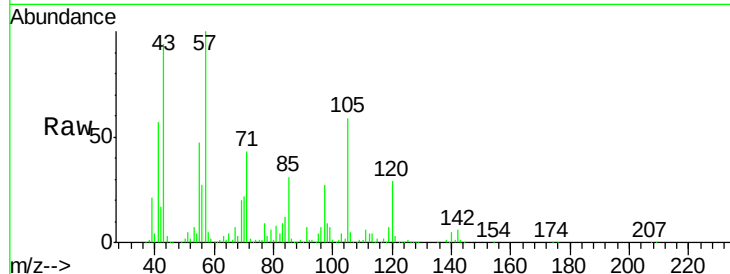




#80  
 1,3,5-Trimethylbenzene  
 Concen: 28.847 ug/l  
 RT: 12.83 min Scan# 1819  
 Delta R.T. 0.02 min  
 Lab File: VY001285.D  
 Acq: 17 Jan 2020 22:44

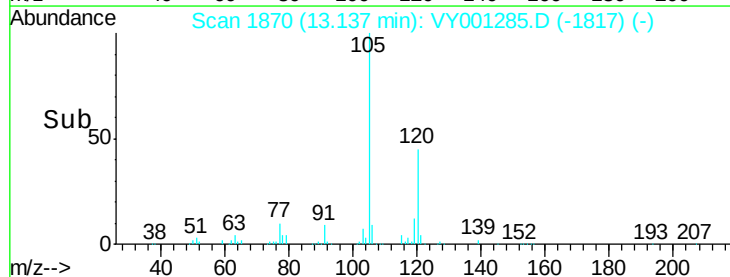
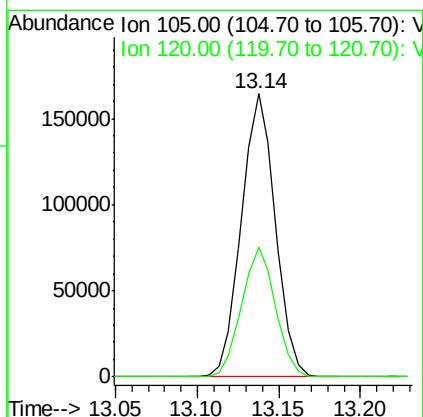
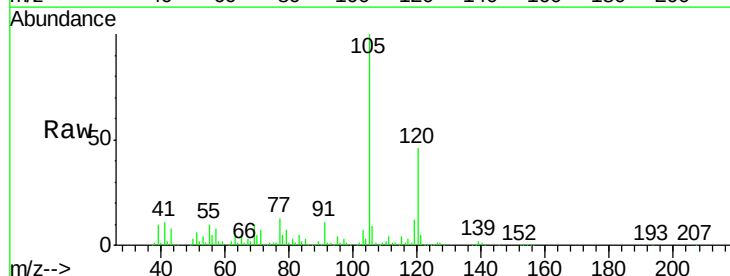
Instrument :  
 MSVOA\_Y  
 ClientSampleId :  
 EO-02-011620

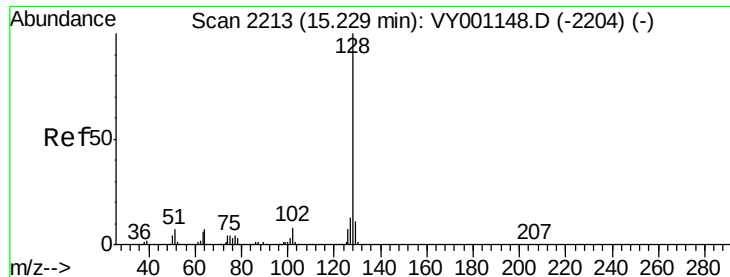
Tot Ion:105 Resp: 225804  
 Ion Ratio Lower Upper  
 105 100  
 120 48.9 24.2 72.6



#84  
 1,2,4-Trimethylbenzene  
 Concen: 30.665 ug/l  
 RT: 13.14 min Scan# 1870  
 Delta R.T. 0.02 min  
 Lab File: VY001285.D  
 Acq: 17 Jan 2020 22:44

Tgt Ion:105 Resp: 238376  
 Ion Ratio Lower Upper  
 105 100  
 120 45.5 22.8 68.3





#95

Naphthalene

Concen: 6.751 ug/l

RT: 15.25 min Scan# 2217

Delta R.T. 0.02 min

Lab File: VY001285.D

Acq: 17 Jan 2020 22:44

Instrument :

MSVOA\_Y

ClientSampleId :

EO-02-011620

Tot Ion:128 Resp: 37731

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.4#

129 8.1 8.5 12.7#

