

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD092520\  
 Data File : VD066882.D  
 Acq On : 25 Sep 2020 18:56  
 Operator : VA/SY  
 Sample : L4129-16  
 Misc : 7.21G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DRUM-COMP-1

Quant Time: Sep 29 03:19:35 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Sep 23 01:34:05 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 23218    | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 36656    | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 39437    | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 16853    | 50.00 | ug/l  | 0.00     |

| System Monitoring Compounds | R.T.  | QIon | Response | Conc  | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|-------|---------|----------|
| 33) 1,2-Dichloroethane-d4   | 8.33  | 65   | 17848    | 78.54 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 157.08% |          |
| 35) Dibromofluoromethane    | 7.91  | 113  | 13868    | 59.47 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 118.94% |          |
| 50) Toluene-d8              | 10.33 | 98   | 44630    | 56.17 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 112.34% |          |
| 62) 4-Bromofluorobenzene    | 12.63 | 95   | 16187    | 59.51 | ug/l    | 0.00     |
| Spiked Amount               |       |      | Recovery | =     | 119.02% |          |

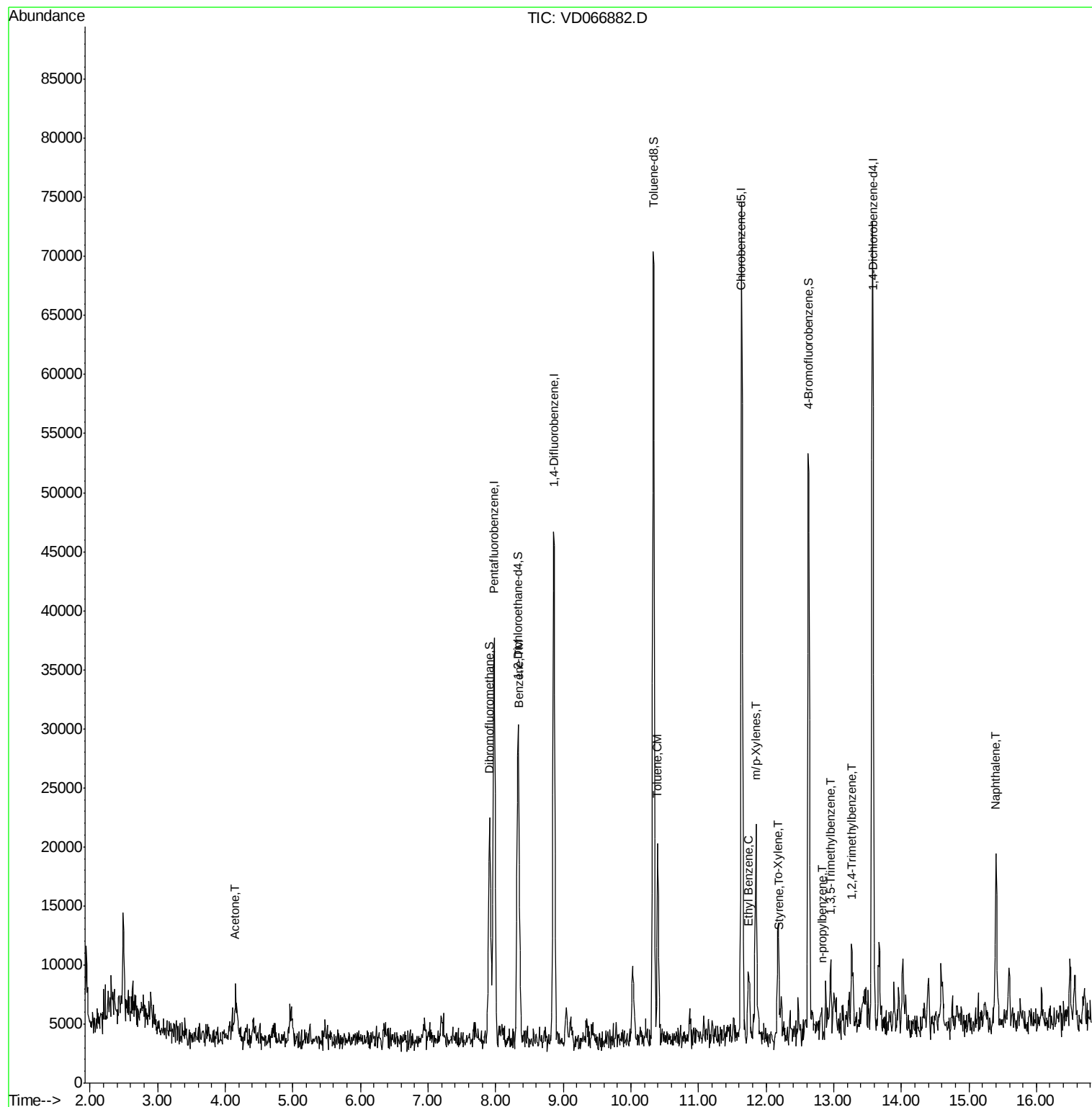
| Target Compounds           | R.T.  | QIon | Response | Conc    | Units  | Qvalue |
|----------------------------|-------|------|----------|---------|--------|--------|
| 16) Acetone                | 4.15  | 43   | 6249     | 129.628 | ug/l # | 75     |
| 40) Benzene                | 8.34  | 78   | 8444     | 8.331   | ug/l   | 93     |
| 52) Toluene                | 10.40 | 92   | 7154     | 10.958  | ug/l   | 96     |
| 67) Ethyl Benzene          | 11.74 | 91   | 3774     | 2.618   | ug/l # | 81     |
| 68) m/p-Xylenes            | 11.86 | 106  | 5022     | 9.200   | ug/l   | 99     |
| 69) o-Xylene               | 12.18 | 106  | 2318     | 4.696   | ug/l   | 95     |
| 70) Styrene                | 12.20 | 104  | 1168     | 1.363   | ug/l # | 49     |
| 78) n-propylbenzene        | 12.82 | 91   | 1785     | 1.219   | ug/l   | 83     |
| 80) 1,3,5-Trimethylbenzene | 12.96 | 105  | 1747     | 1.691   | ug/l   | 91     |
| 84) 1,2,4-Trimethylbenzene | 13.27 | 105  | 4215     | 4.115   | ug/l   | 86     |
| 95) Naphthalene            | 15.40 | 128  | 13080    | 25.429  | ug/l   | 96     |

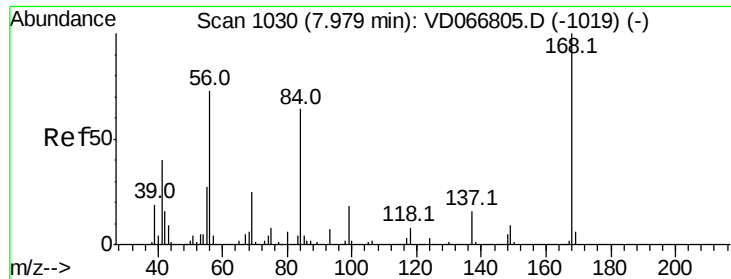
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D092220S.M  
Quant Title : SW846 8260  
QLast Update : Wed Sep 23 01:34:05 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. -0.00 min

Lab File: VD066882.D

Acq: 25 Sep 2020 18:56

Instrument :

MSVOA\_D

ClientSampleId :

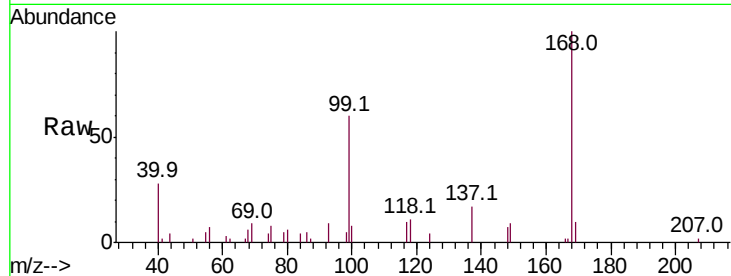
DRUM-COMP-1

Tot Ion:168 Resp: 23218

Ion Ratio Lower Upper

168 100

99 59.7 46.6 69.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

12000

10000

8000

6000

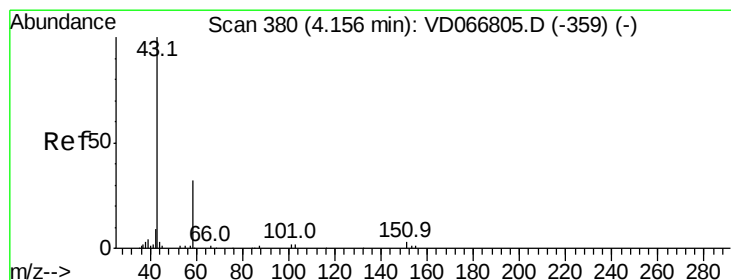
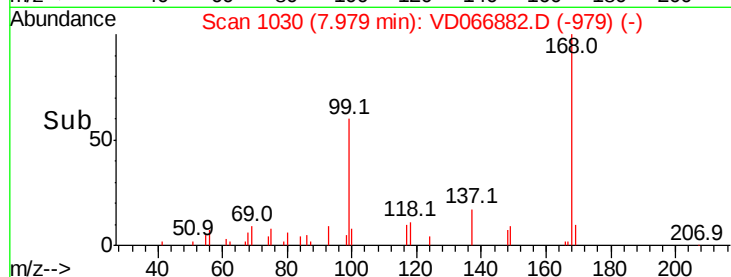
4000

2000

0

7.90 7.95 8.00 8.05

Time-->



#16

Acetone

Concen: 129.628 ug/l

RT: 4.15 min Scan# 379

Delta R.T. -0.01 min

Lab File: VD066882.D

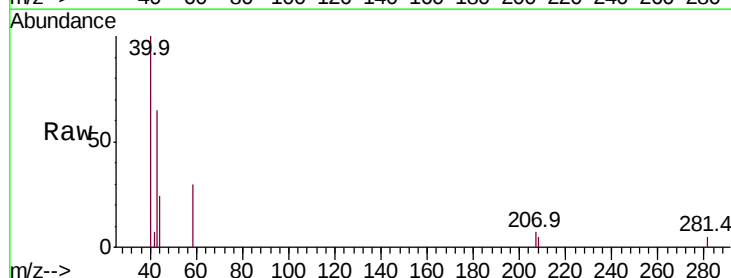
Acq: 25 Sep 2020 18:56

Tgt Ion: 43 Resp: 6249

Ion Ratio Lower Upper

43 100

58 45.8 25.6 38.4#



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

2500

2000

1500

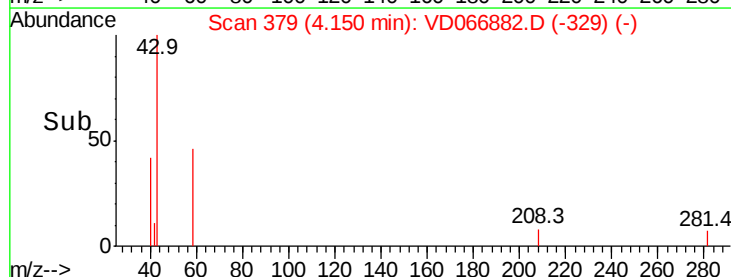
1000

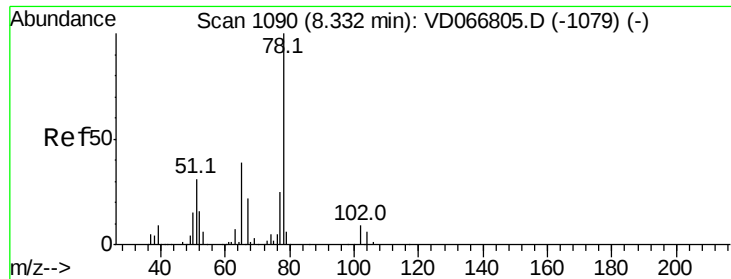
500

0

4.05 4.10 4.15 4.20 4.25

Time-->





#33

1,2-Dichloroethane-d4

Concen: 78.540 ug/l

RT: 8.33 min Scan# 1090

Delta R.T. -0.00 min

Lab File: VD066882.D

Acq: 25 Sep 2020 18:56

Instrument :

MSVOA\_D

ClientSampleId :

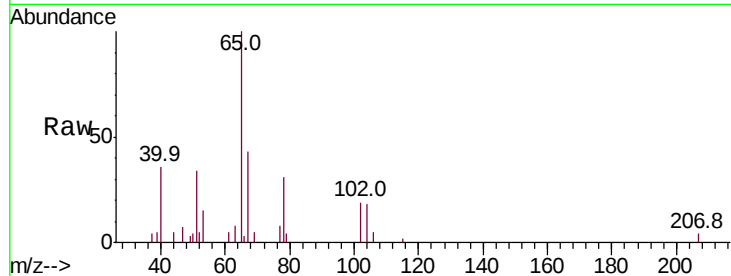
DRUM-COMP-1

Tot Ion: 65 Resp: 17848

Ion Ratio Lower Upper

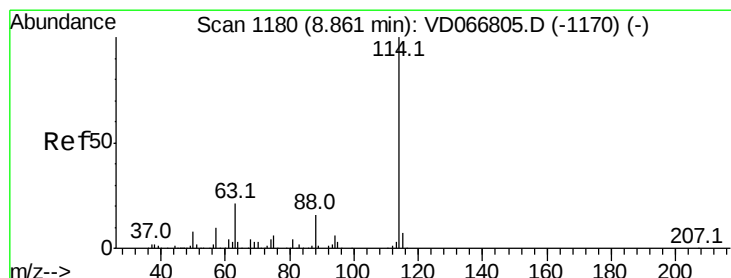
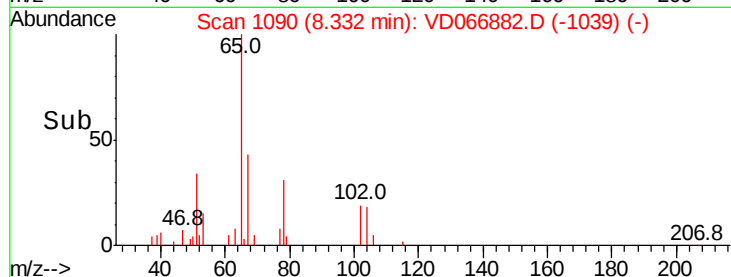
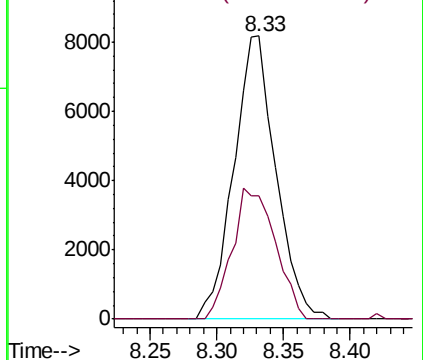
65 100

67 47.5 0.0 107.2



Abundance Ion 64.90 (64.60 to 65.60): VDC

Ion 66.90 (66.60 to 67.60): VDC



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.86 min Scan# 1180

Delta R.T. -0.00 min

Lab File: VD066882.D

Acq: 25 Sep 2020 18:56

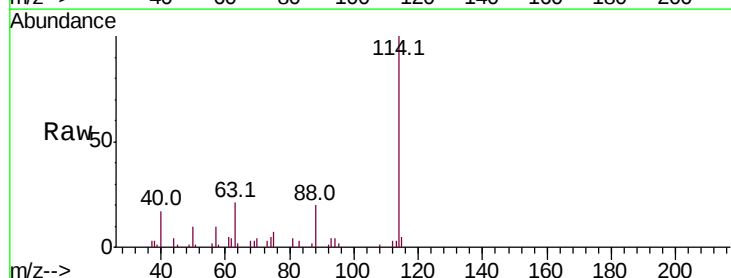
Tgt Ion: 114 Resp: 36656

Ion Ratio Lower Upper

114 100

63 21.2 0.0 42.6

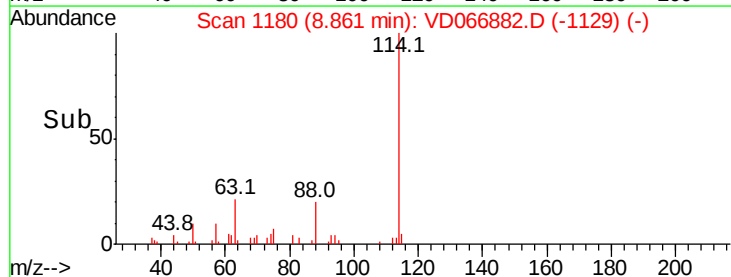
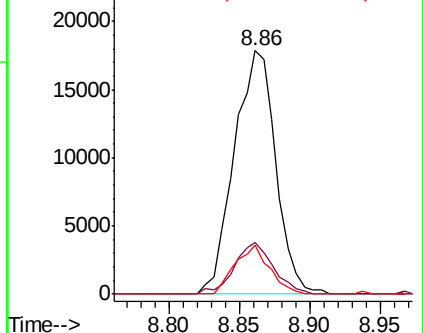
88 20.2 0.0 32.6

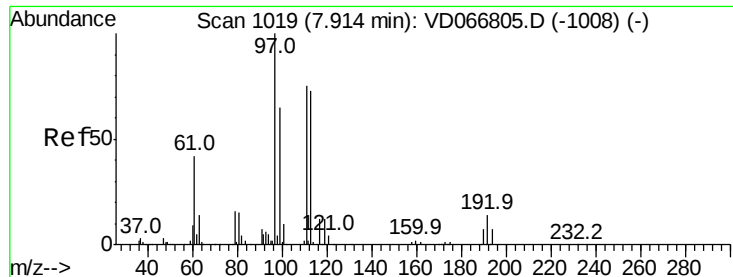


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

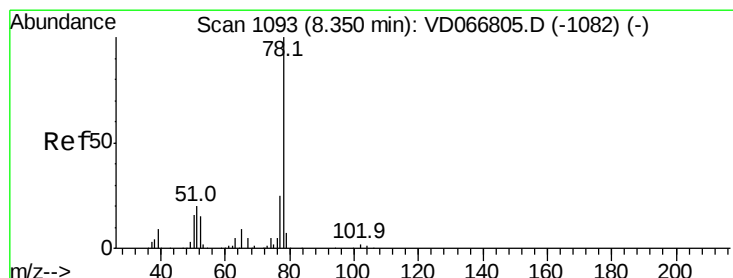
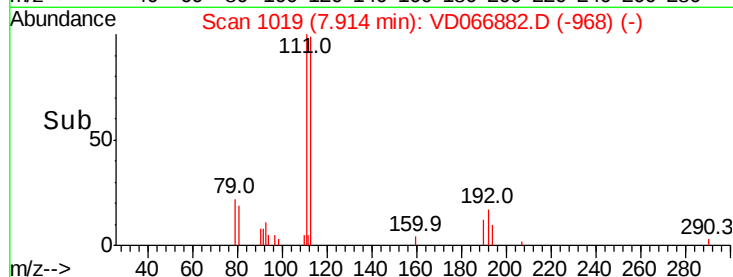
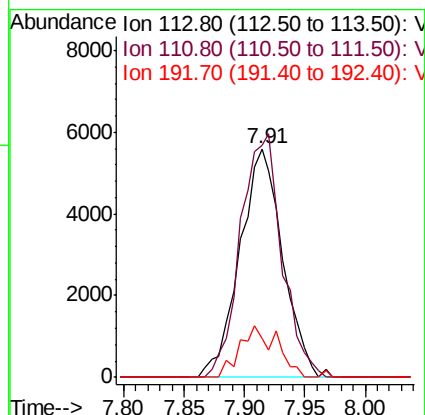
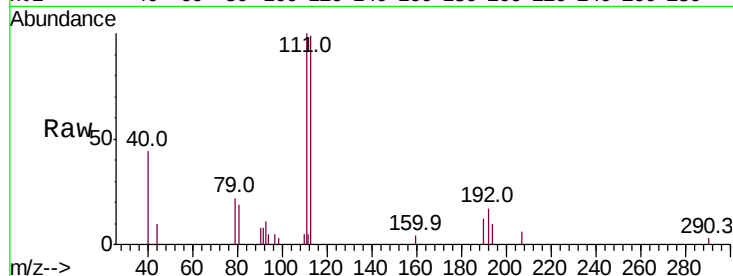




#35  
 Dibromofluoromethane  
 Concen: 59.467 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. -0.00 min  
 Lab File: VD066882.D  
 Acq: 25 Sep 2020 18:56

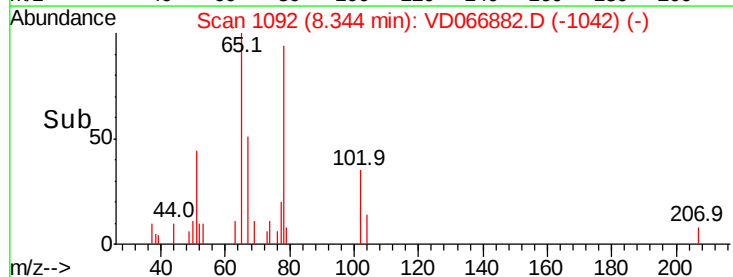
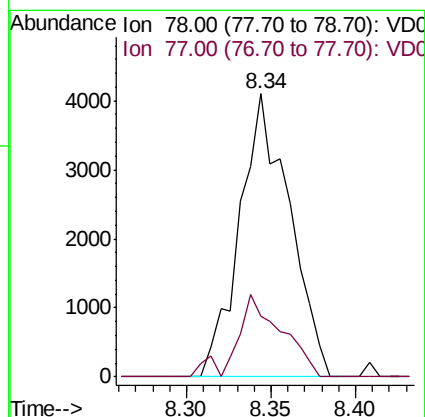
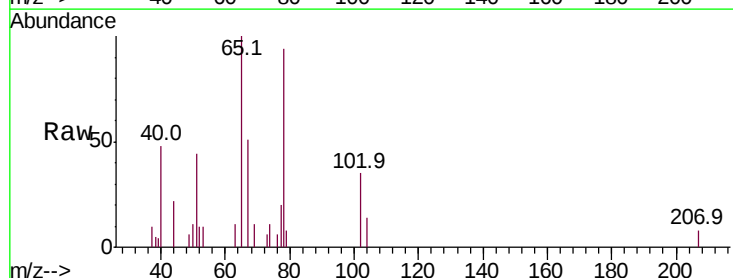
Instrument :  
 MSVOA\_D  
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 DRUM-COMP-1

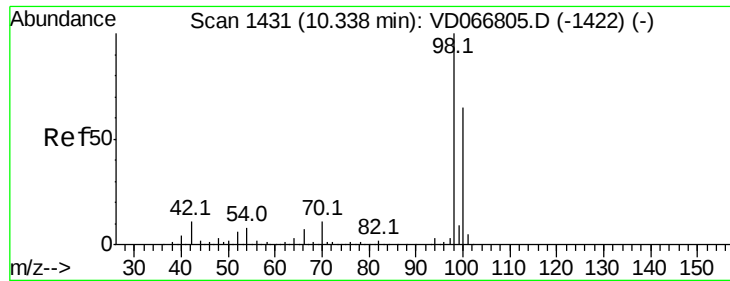
Tot Ion:113 Resp: 13868  
 Ion Ratio Lower Upper  
 113 100  
 111 102.4 81.8 122.8  
 192 19.4 14.4 21.6



#40  
 Benzene  
 Concen: 8.331 ug/l  
 RT: 8.34 min Scan# 1092  
 Delta R.T. -0.01 min  
 Lab File: VD066882.D  
 Acq: 25 Sep 2020 18:56

Tgt Ion: 78 Resp: 8444  
 Ion Ratio Lower Upper  
 78 100  
 77 21.3 19.9 29.9

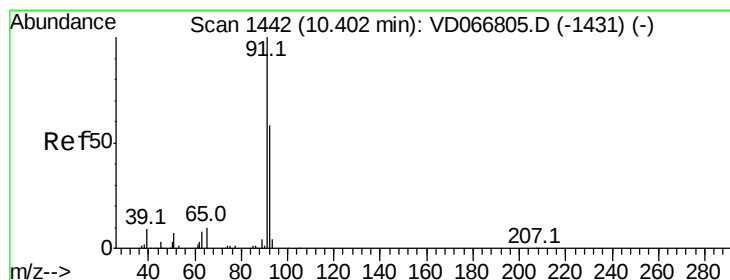
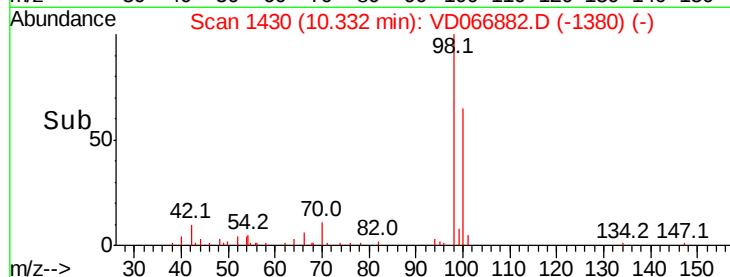
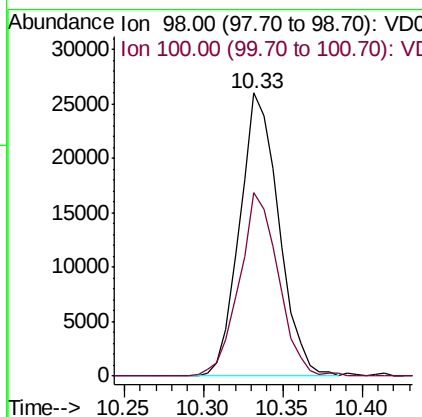
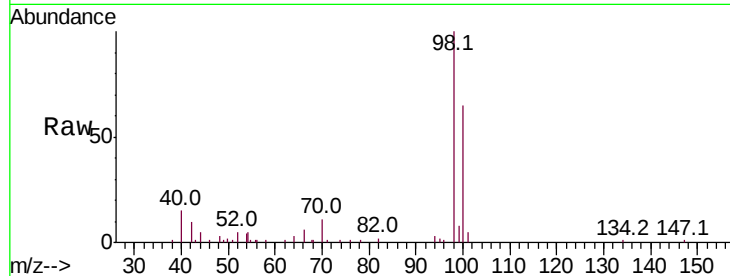




#50  
Toluene-d8  
Concen: 56.169 ug/l  
RT: 10.33 min Scan# 1430  
Delta R.T. -0.01 min  
Lab File: VD066882.D  
Acq: 25 Sep 2020 18:56

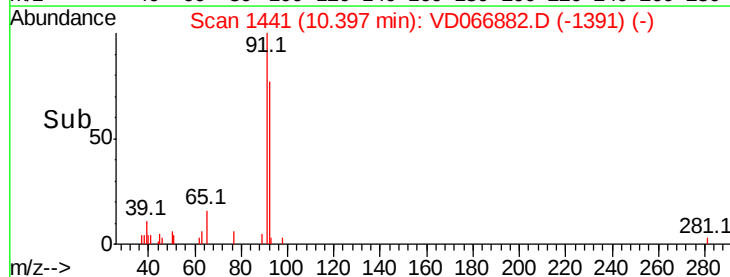
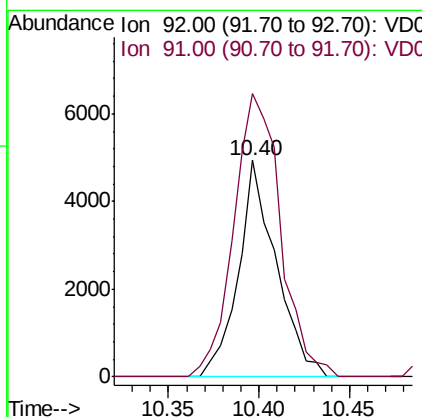
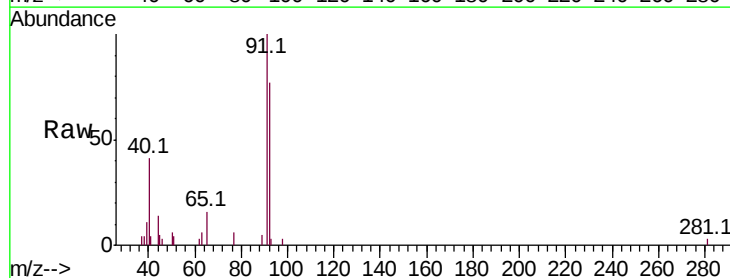
Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP-1

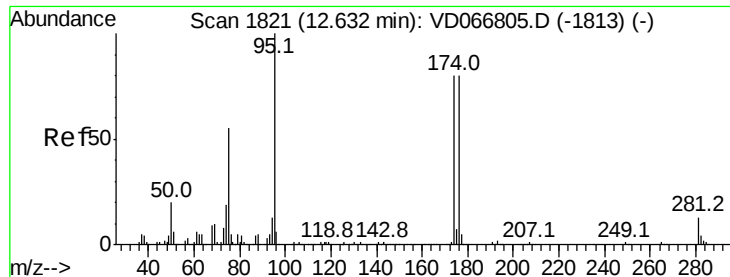
Tot Ion: 98 Resp: 44630  
Ion Ratio Lower Upper  
98 100  
100 64.7 52.2 78.2



#52  
Toluene  
Concen: 10.958 ug/l  
RT: 10.40 min Scan# 1441  
Delta R.T. -0.01 min  
Lab File: VD066882.D  
Acq: 25 Sep 2020 18:56

Tgt Ion: 92 Resp: 7154  
Ion Ratio Lower Upper  
92 100  
91 162.2 134.6 202.0

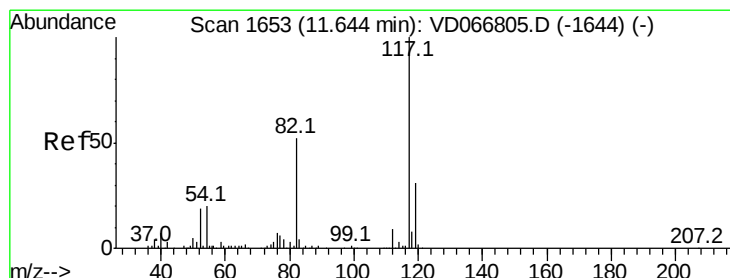
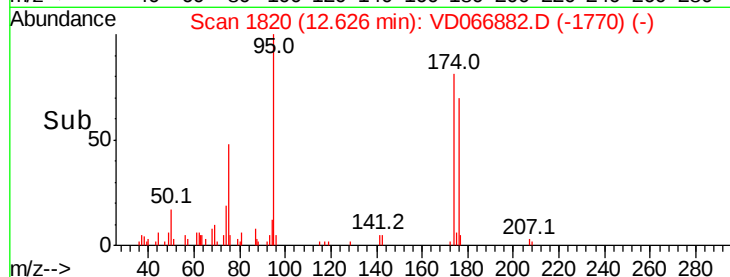
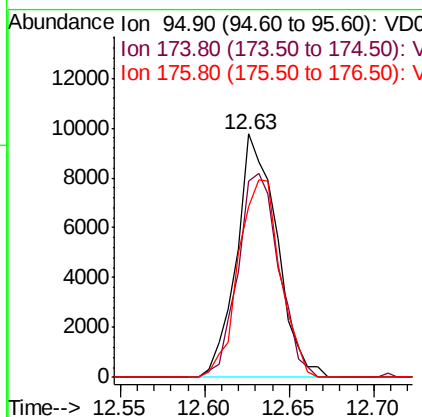
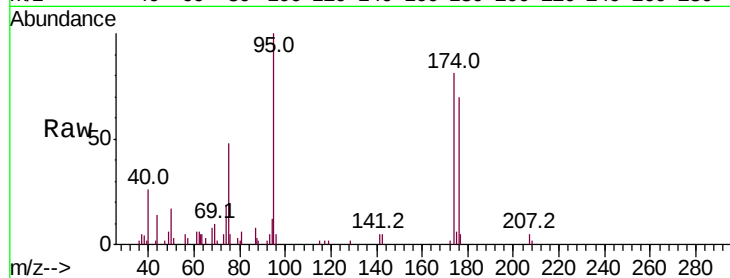




#62  
4-Bromofluorobenzene  
Concen: 59.509 ug/l  
RT: 12.63 min Scan# 1820  
Delta R.T. -0.01 min  
Lab File: VD066882.D  
Acq: 25 Sep 2020 18:56

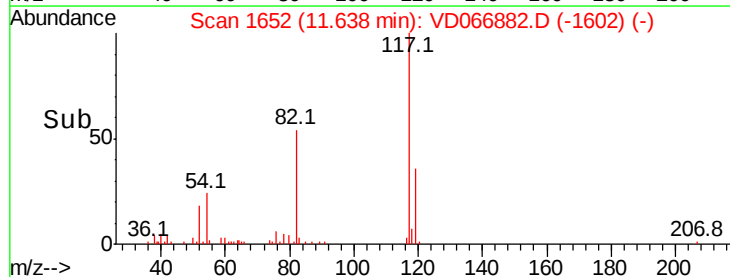
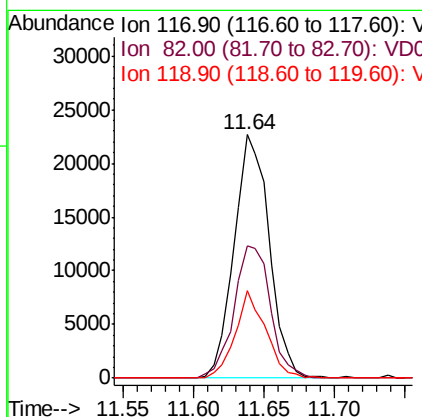
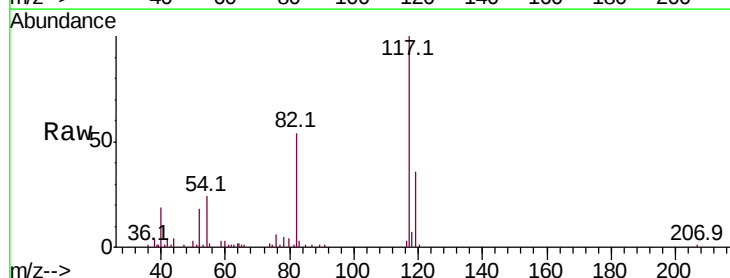
Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP-1

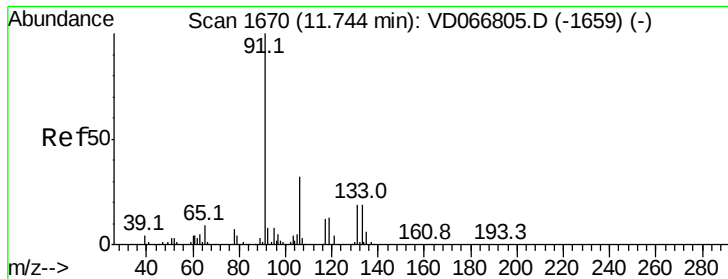
Tot Ion: 95 Resp: 16187  
Ion Ratio Lower Upper  
95 100  
174 85.5 0.0 159.8  
176 84.4 0.0 154.4



#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1652  
Delta R.T. -0.01 min  
Lab File: VD066882.D  
Acq: 25 Sep 2020 18:56

Tgt Ion: 117 Resp: 39437  
Ion Ratio Lower Upper  
117 100  
82 54.3 41.8 62.6  
119 35.8 24.6 37.0





#67

Ethyl Benzene

Concen: 2.618 ug/l

RT: 11.74 min Scan# 1669

Delta R.T. -0.01 min

Lab File: VD066882.D

Acq: 25 Sep 2020 18:56

Instrument :

MSVOA\_D

ClientSampleId :

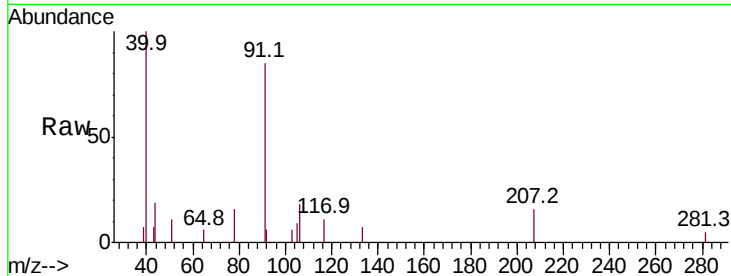
DRUM-COMP-1

Tot Ion: 91 Resp: 3774

Ion Ratio Lower Upper

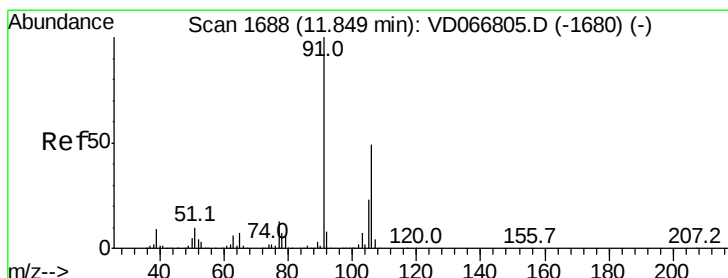
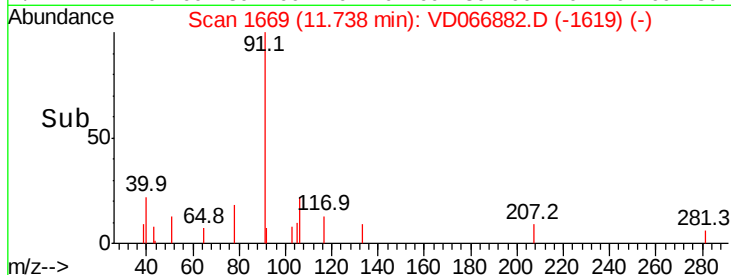
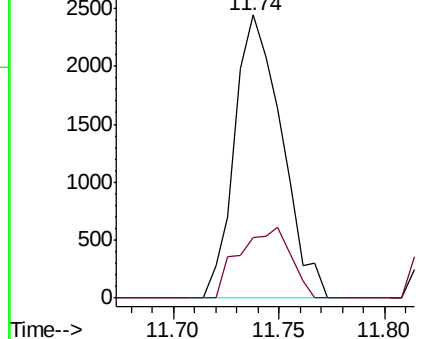
91 100

106 21.6 25.6 38.4#



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 106.00 (105.70 to 106.70): V



#68

m/p-Xylenes

Concen: 9.200 ug/l

RT: 11.86 min Scan# 1689

Delta R.T. 0.01 min

Lab File: VD066882.D

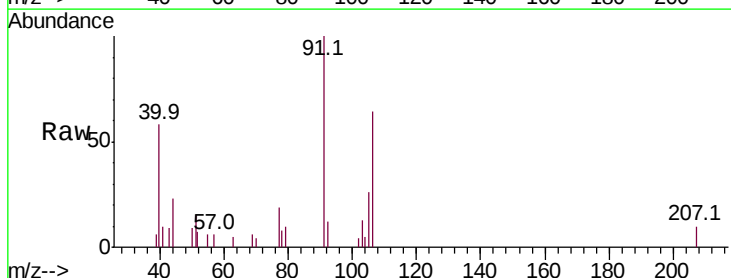
Acq: 25 Sep 2020 18:56

Tgt Ion: 106 Resp: 5022

Ion Ratio Lower Upper

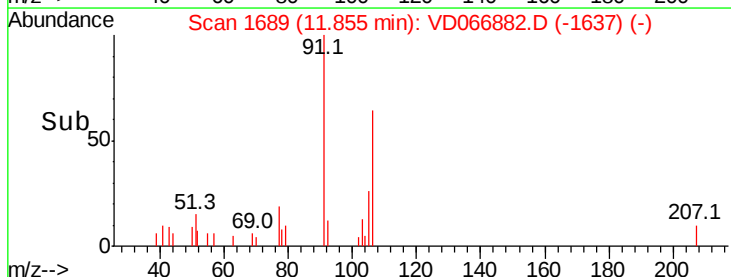
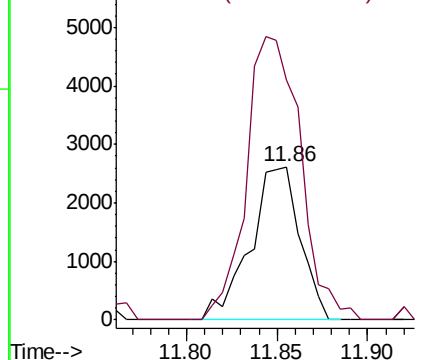
106 100

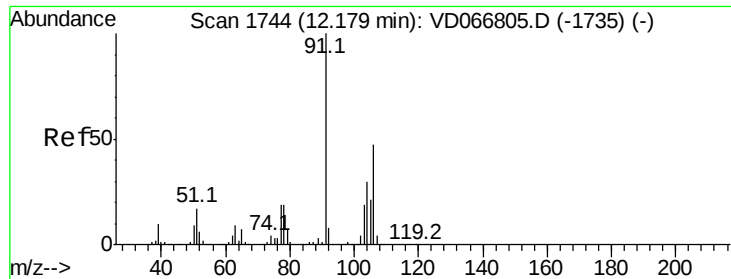
91 199.7 160.7 241.1



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): V

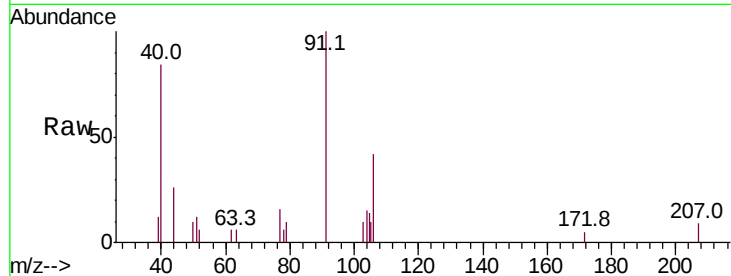




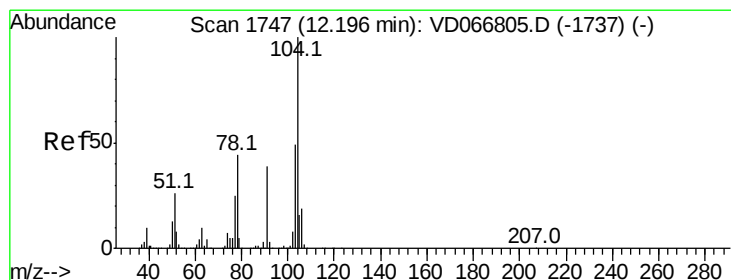
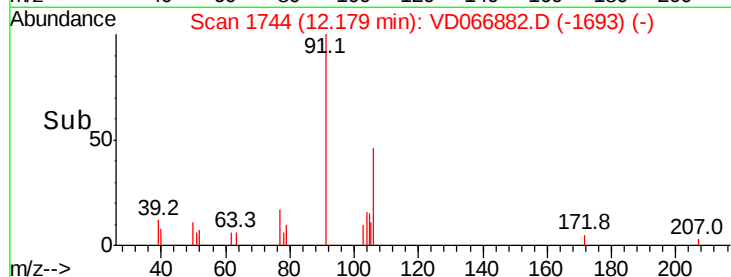
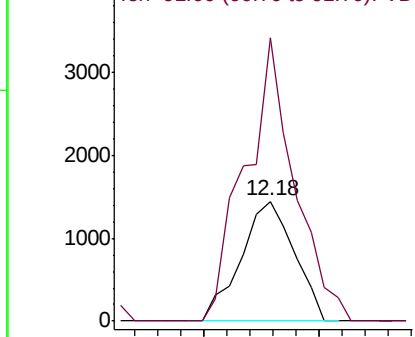
#69  
o-Xylene  
Concen: 4.696 ug/l  
RT: 12.18 min Scan# 1744  
Delta R.T. -0.00 min  
Lab File: VD066882.D  
Acq: 25 Sep 2020 18:56

Instrument :  
MSVOA\_D  
ClientSampleId :  
DRUM-COMP-1

Tot Ion:106 Resp: 2318  
Ion Ratio Lower Upper  
106 100  
91 220.0 106.3 318.8

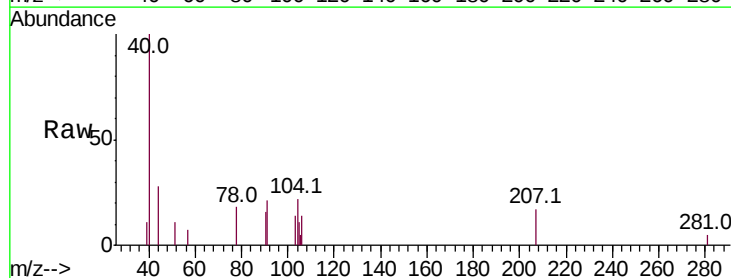


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): V

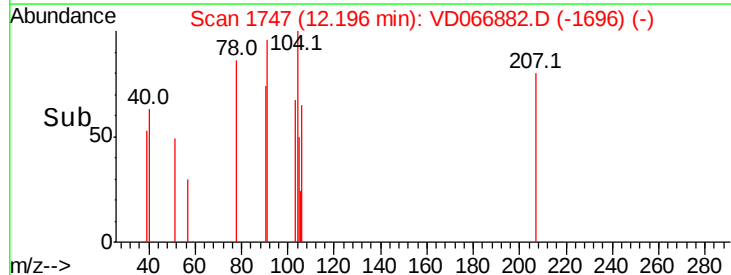
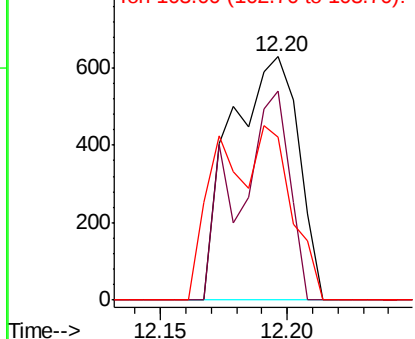


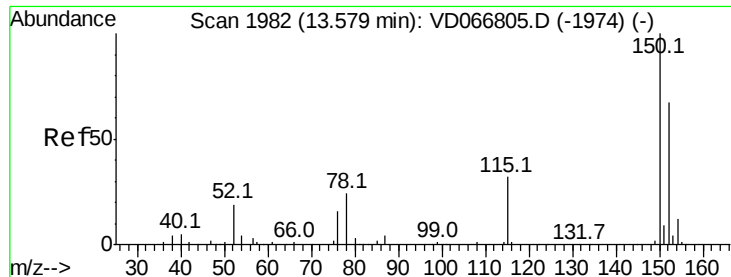
#70  
Styrene  
Concen: 1.363 ug/l  
RT: 12.20 min Scan# 1747  
Delta R.T. -0.00 min  
Lab File: VD066882.D  
Acq: 25 Sep 2020 18:56

Tgt Ion:104 Resp: 1168  
Ion Ratio Lower Upper  
104 100  
78 65.1 38.9 58.3#  
103 0.0 43.2 64.8#



Abundance Ion 104.00 (103.70 to 104.70): V  
Ion 78.00 (77.70 to 78.70): V  
Ion 103.00 (102.70 to 103.70): V





#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.58 min Scan# 1982

Delta R.T. -0.00 min

Lab File: VD066882.D

Acq: 25 Sep 2020 18:56

Instrument :

MSVOA\_D

ClientSampleId :

DRUM-COMP-1

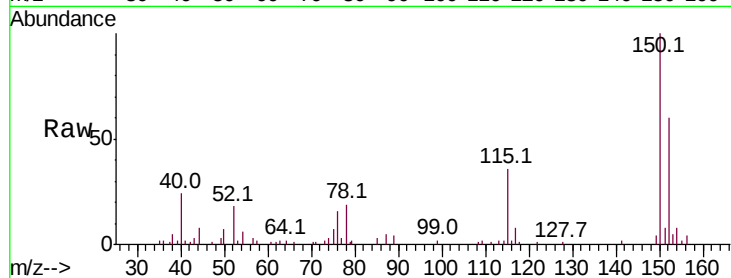
Tot Ion:152 Resp: 16853

Ion Ratio Lower Upper

152 100

115 63.6 30.3 91.0

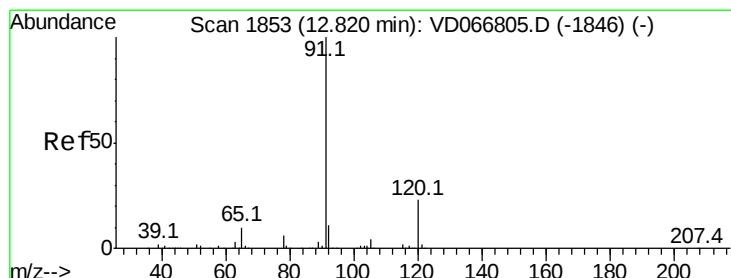
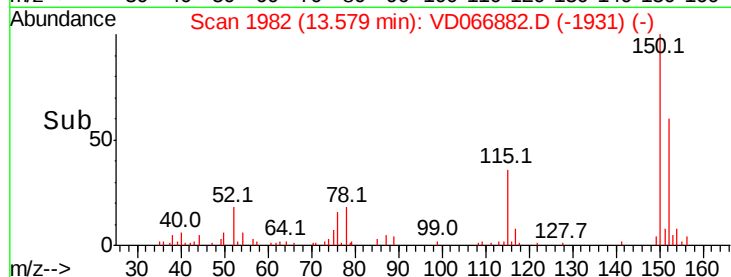
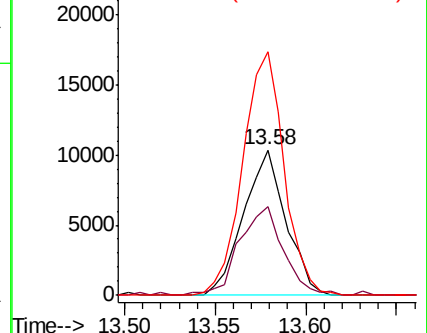
150 162.9 0.0 346.2



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



#78

n-propylbenzene

Concen: 1.219 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. -0.00 min

Lab File: VD066882.D

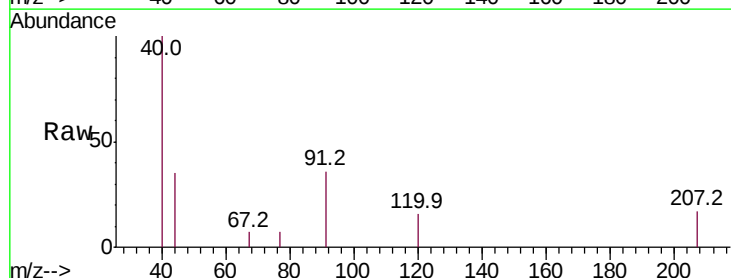
Acq: 25 Sep 2020 18:56

Tgt Ion: 91 Resp: 1785

Ion Ratio Lower Upper

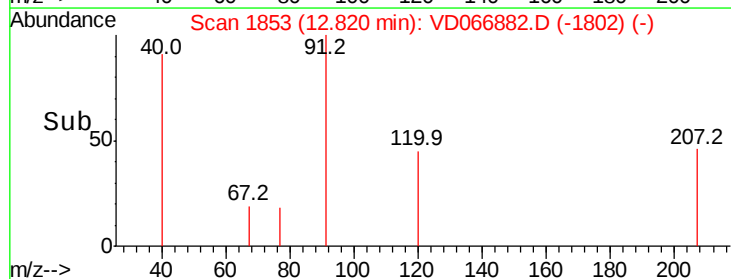
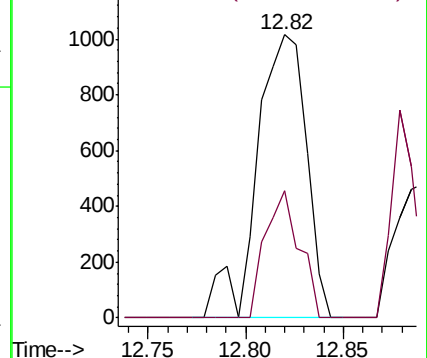
91 100

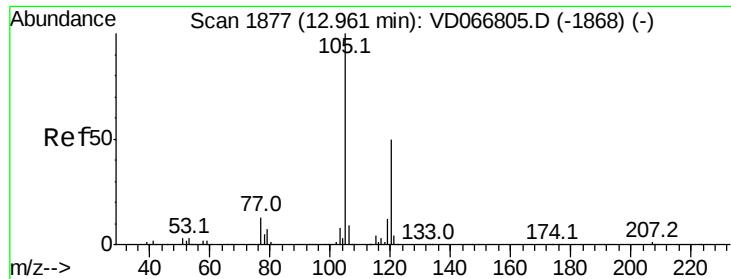
120 31.1 11.4 34.2



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

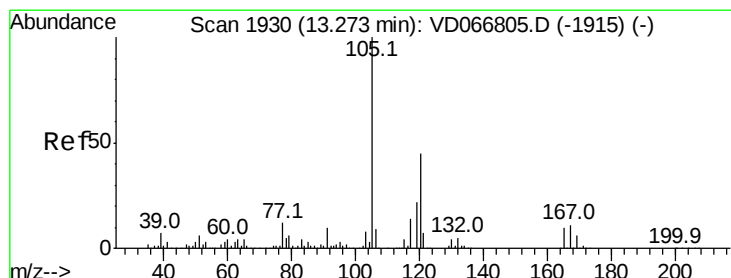
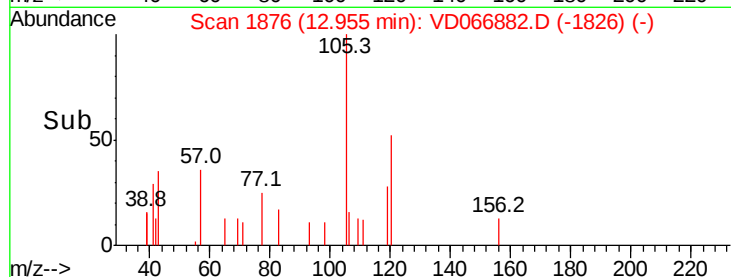
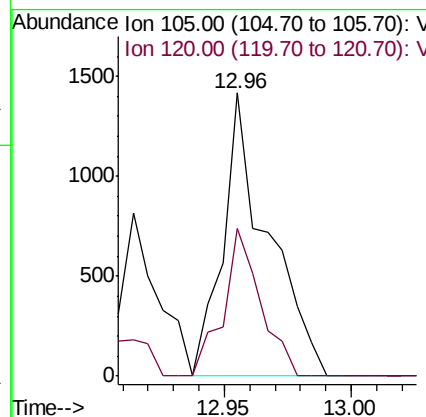
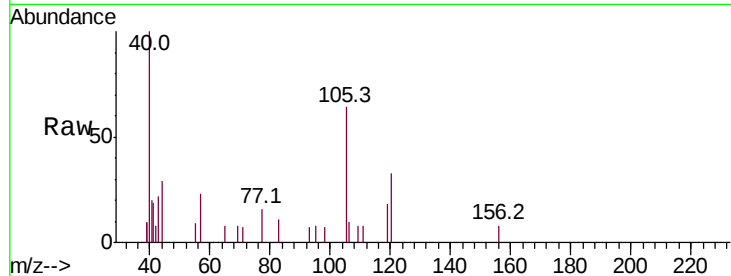




#80  
 1,3,5-Trimethylbenzene  
 Concen: 1.691 ug/l  
 RT: 12.96 min Scan# 1876  
 Delta R.T. -0.01 min  
 Lab File: VD066882.D  
 Acq: 25 Sep 2020 18:56

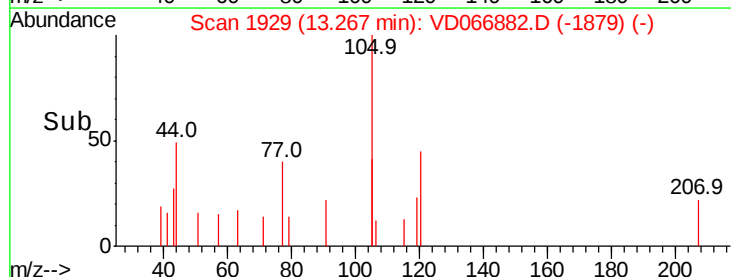
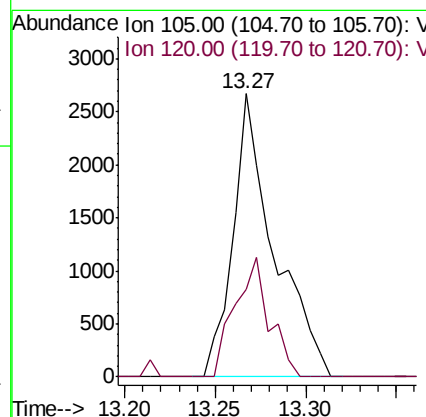
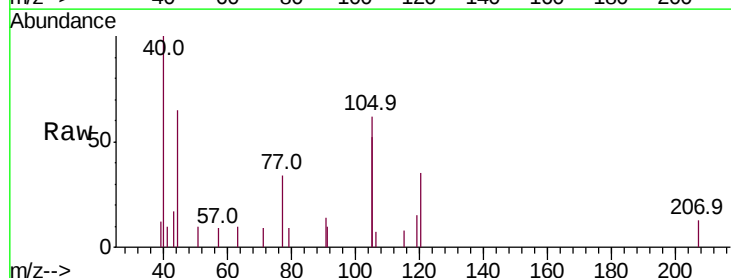
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 DRUM-COMP-1

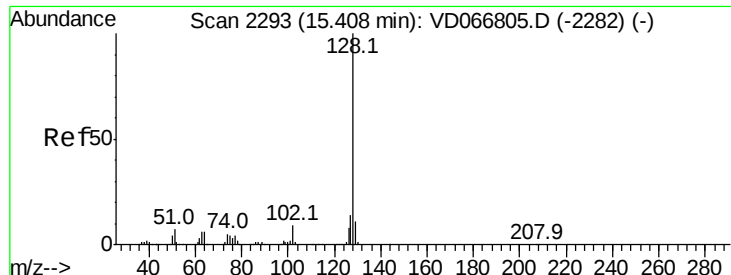
Tot Ion:105 Resp: 1747  
 Ion Ratio Lower Upper  
 105 100  
 120 42.9 24.4 73.4



#84  
 1,2,4-Trimethylbenzene  
 Concen: 4.115 ug/l  
 RT: 13.27 min Scan# 1929  
 Delta R.T. -0.01 min  
 Lab File: VD066882.D  
 Acq: 25 Sep 2020 18:56

Tgt Ion:105 Resp: 4215  
 Ion Ratio Lower Upper  
 105 100  
 120 35.5 22.3 66.9





#95

Naphthalene

Concen: 25.429 ug/l

RT: 15.40 min Scan# 2292

Delta R.T. -0.01 min

Lab File: VD066882.D

Acq: 25 Sep 2020 18:56

Instrument :

MSVOA\_D

ClientSampleId :

DRUM-COMP-1

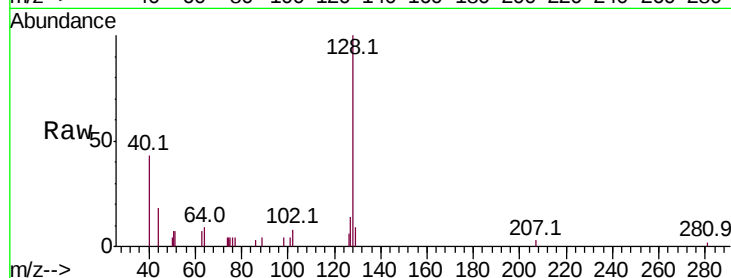
Tot Ion:128 Resp: 13080

Ion Ratio Lower Upper

128 100

127 15.4 10.6 16.0

129 12.2 8.9 13.3



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

