

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
 Data File : VD066138.D  
 Acq On : 06 Aug 2020 16:54  
 Operator : VA/SY  
 Sample : L3568-04  
 Misc : 7.53G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 11 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 8/5-F-J

Quant Time: Aug 07 02:02:53 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Aug 05 13:49:25 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 270177   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.86  | 114  | 457870   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.64 | 117  | 504833   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 256016   | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |     |          |       |         |      |
|---------------------------|--------|-----|----------|-------|---------|------|
| 33) 1,2-Dichloroethane-d4 | 8.33   | 65  | 121574   | 50.44 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 100.88% |      |
| 35) Dibromofluoromethane  | 7.91   | 113 | 137163   | 47.29 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 94.58%  |      |
| 50) Toluene-d8            | 10.34  | 98  | 578361   | 54.03 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 108.06% |      |
| 62) 4-Bromofluorobenzene  | 12.63  | 95  | 253620   | 65.73 | ug/l    | 0.00 |
| Spiked Amount             | 50.000 |     | Recovery | =     | 131.46% |      |

## Target Compounds

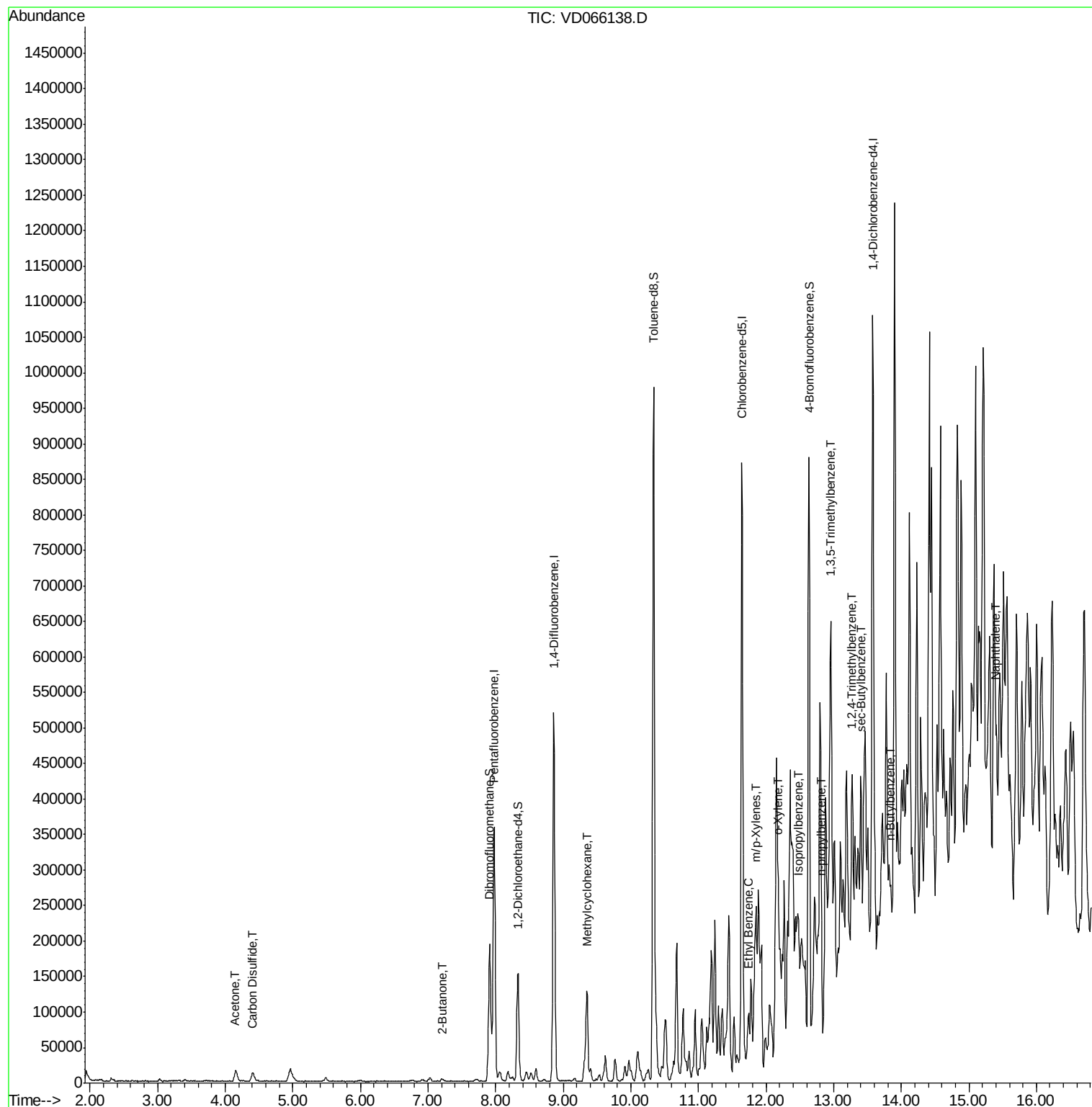
|                            |       |     |        |        |        | Qvalue |
|----------------------------|-------|-----|--------|--------|--------|--------|
| 16) Acetone                | 4.15  | 43  | 28056  | 61.344 | ug/l   | 100    |
| 17) Carbon Disulfide       | 4.41  | 76  | 25275  | 3.322  | ug/l   | 96     |
| 25) 2-Butanone             | 7.21  | 43  | 5002   | 7.436  | ug/l   | 95     |
| 39) Methylcyclohexane      | 9.35  | 83  | 50561  | 9.721  | ug/l   | 95     |
| 67) Ethyl Benzene          | 11.74 | 91  | 30523  | 1.719  | ug/l   | 98     |
| 68) m/p-Xylenes            | 11.85 | 106 | 46651  | 6.780  | ug/l   | 97     |
| 69) o-Xylene               | 12.18 | 106 | 37619  | 6.010  | ug/l   | 96     |
| 73) Isopropylbenzene       | 12.48 | 105 | 40624  | 2.377  | ug/l   | 99     |
| 78) n-propylbenzene        | 12.83 | 91  | 38513  | 1.939  | ug/l   | 98     |
| 80) 1,3,5-Trimethylbenzene | 12.96 | 105 | 53087  | 3.714  | ug/l   | 98     |
| 84) 1,2,4-Trimethylbenzene | 13.27 | 105 | 136587 | 9.549  | ug/l   | 99     |
| 85) sec-Butylbenzene       | 13.41 | 105 | 91114  | 5.369  | ug/l   | 79     |
| 89) n-Butylbenzene         | 13.85 | 91  | 28911  | 2.027  | ug/l # | 78     |
| 95) Naphthalene            | 15.41 | 128 | 162346 | 18.490 | ug/l   | 98     |

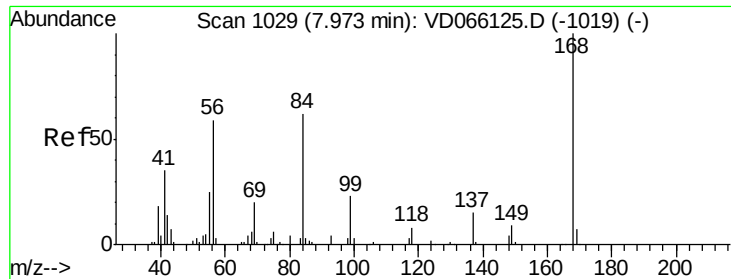
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA D\DATA\VD080620\  
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Sample : L3568-04  
Misc : 7.53G/5.00ml/MSVOA D/SOIL  
ALS Vial : 11 Sample Multiplier: 1

Instrument :  
MSVOA\_D  
ClientSampleId :  
8/5-F-J

Quant Time: Aug 07 02:02:53 2020  
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA\_D\METHOD\82D080520S.M  
Quant Title : SW846 8260  
QLast Update : Wed Aug 05 13:49:25 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1030

Delta R.T. 0.01 min

Lab File: VD066138.D

Acq: 06 Aug 2020 16:54

Instrument :

MSVOA\_D

ClientSampleId :

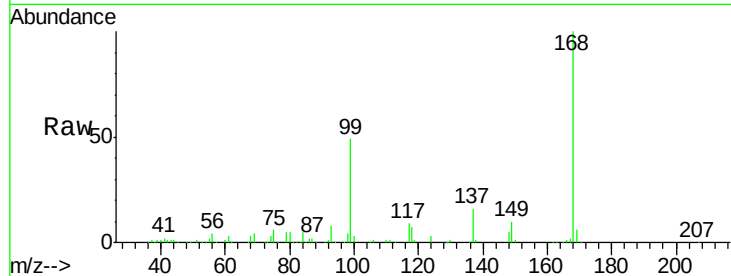
8/5-F-J

Tot Ion:168 Resp: 270177

Ion Ratio Lower Upper

168 100

99 49.4 42.2 63.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

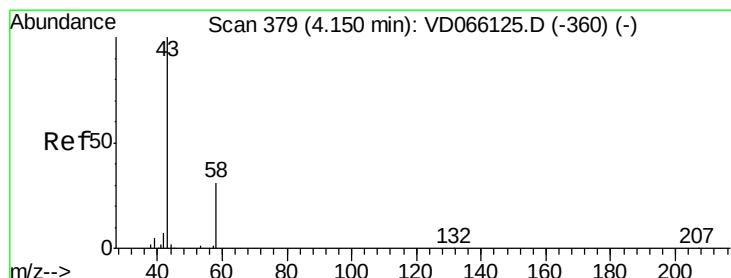
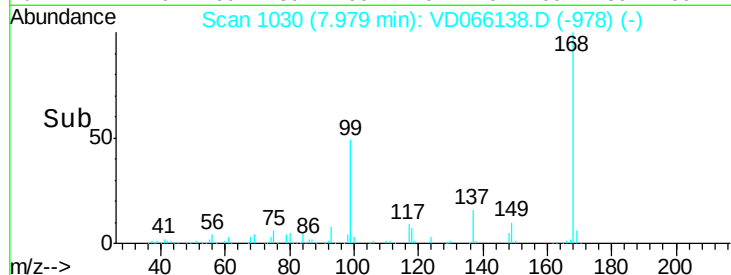
7.98

100000

50000

0

Time-->



#16

Acetone

Concen: 61.344 ug/l

RT: 4.15 min Scan# 379

Delta R.T. 0.00 min

Lab File: VD066138.D

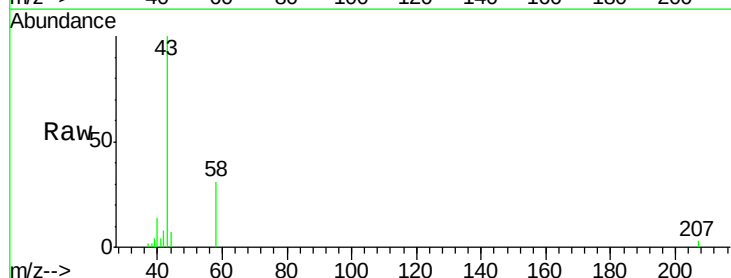
Acq: 06 Aug 2020 16:54

Tgt Ion: 43 Resp: 28056

Ion Ratio Lower Upper

43 100

58 30.8 24.7 37.1



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.15

12000

10000

8000

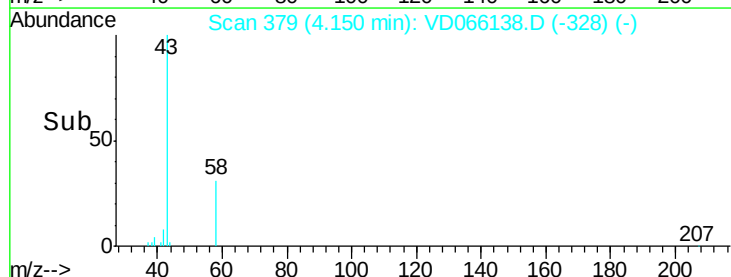
6000

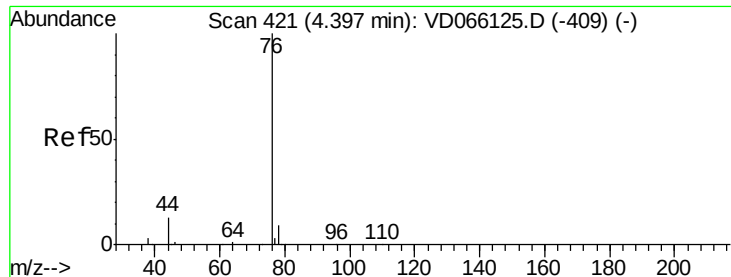
4000

2000

0

Time-->





#17

Carbon Disulfide

Concen: 3.322 ug/l

RT: 4.41 min Scan# 423

Delta R.T. 0.01 min

Lab File: VD066138.D

Acq: 06 Aug 2020 16:54

Instrument :

MSVOA\_D

ClientSampleId :

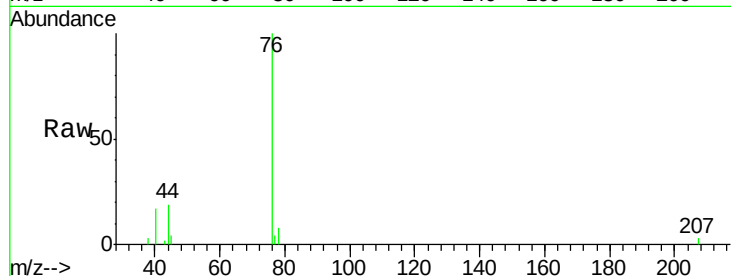
8/5-F-J

Tot Ion: 76 Resp: 25275

Ion Ratio Lower Upper

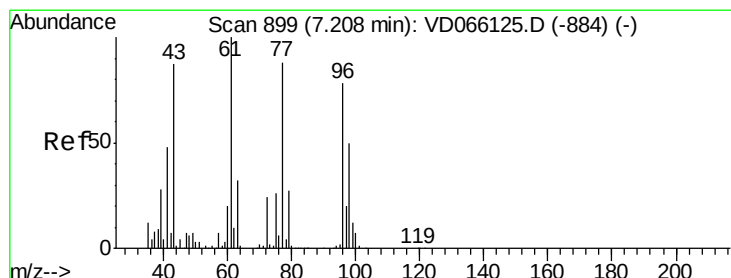
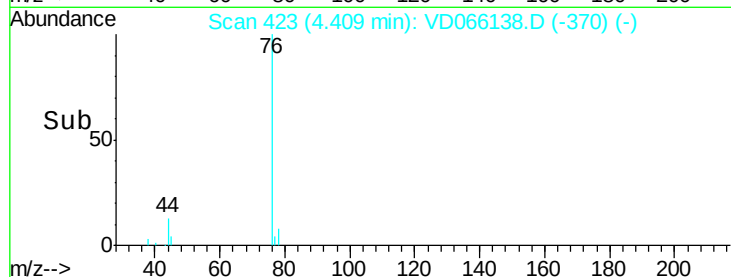
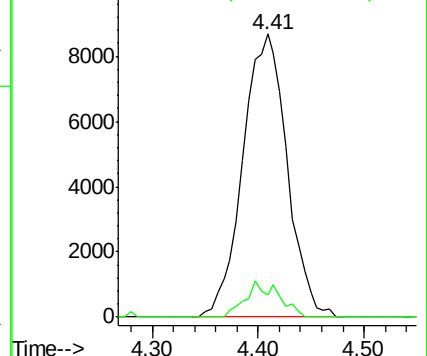
76 100

78 8.1 7.5 11.3



Abundance Ion 75.90 (75.60 to 76.60): VDC

Ion 77.90 (77.60 to 78.60): VDC



#25

2-Butanone

Concen: 7.436 ug/l

RT: 7.21 min Scan# 900

Delta R.T. 0.01 min

Lab File: VD066138.D

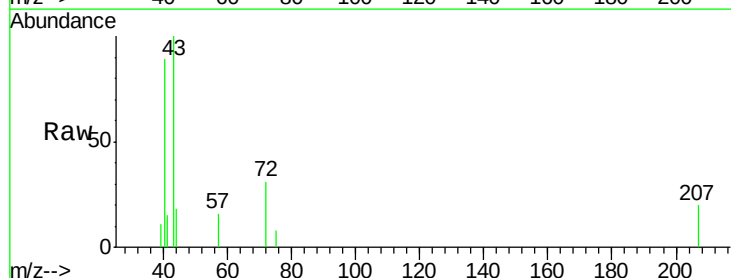
Acq: 06 Aug 2020 16:54

Tgt Ion: 43 Resp: 5002

Ion Ratio Lower Upper

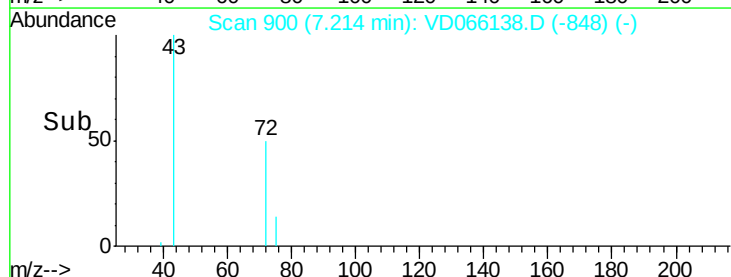
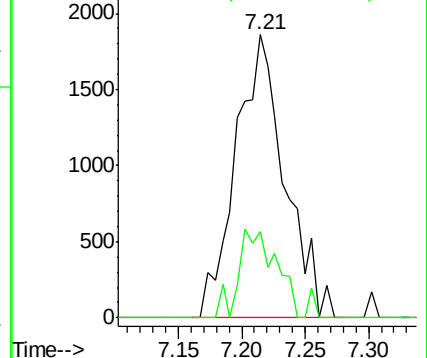
43 100

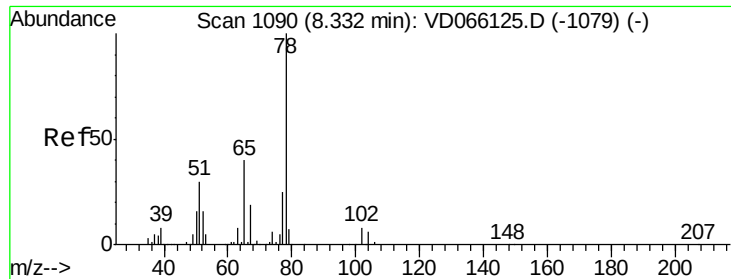
72 30.6 22.2 33.2



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 72.00 (71.70 to 72.70): VDC

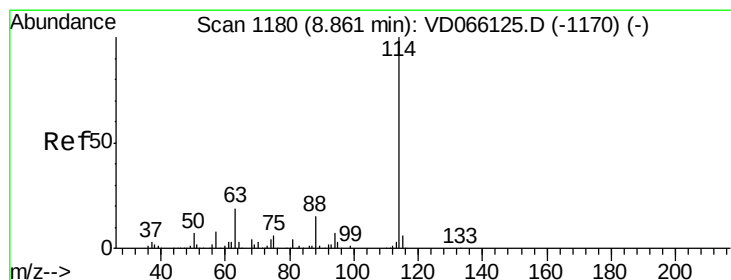
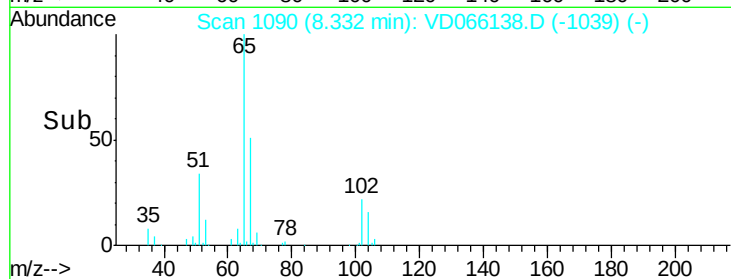
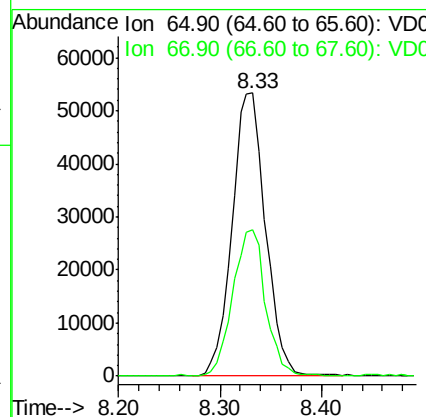
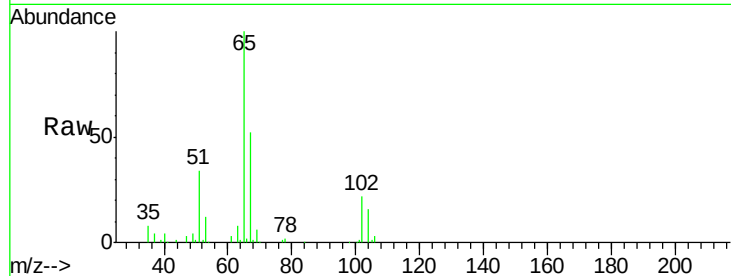




#33  
 1,2-Dichloroethane-d4  
 Concen: 50.438 ug/l  
 RT: 8.33 min Scan# 1090  
 Delta R.T. 0.00 min  
 Lab File: VD066138.D  
 Acq: 06 Aug 2020 16:54

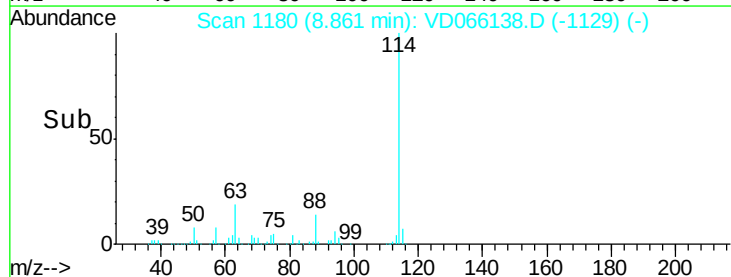
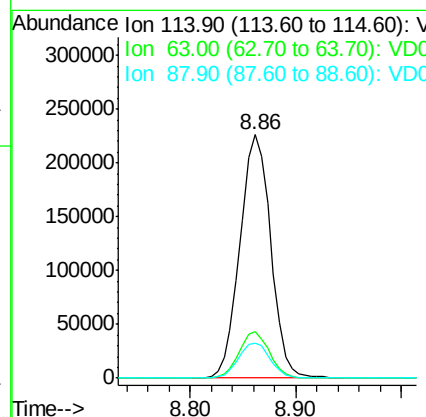
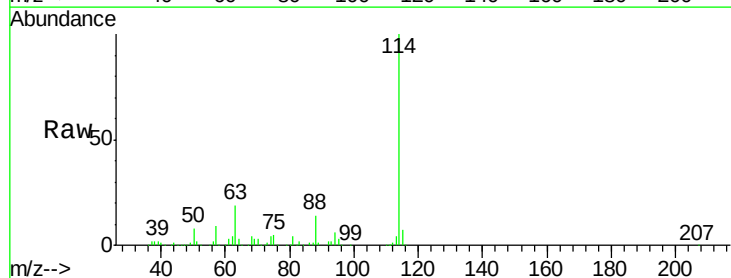
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 8/5-F-J

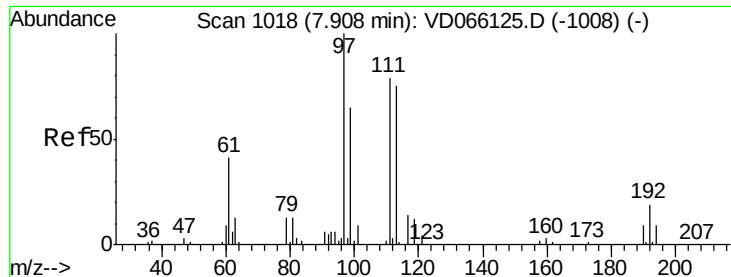
Tot Ion: 65 Resp: 121574  
 Ion Ratio Lower Upper  
 65 100  
 67 50.6 0.0 104.6



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.86 min Scan# 1180  
 Delta R.T. 0.00 min  
 Lab File: VD066138.D  
 Acq: 06 Aug 2020 16:54

Tgt Ion: 114 Resp: 457870  
 Ion Ratio Lower Upper  
 114 100  
 63 19.0 0.0 38.6  
 88 14.2 0.0 30.0

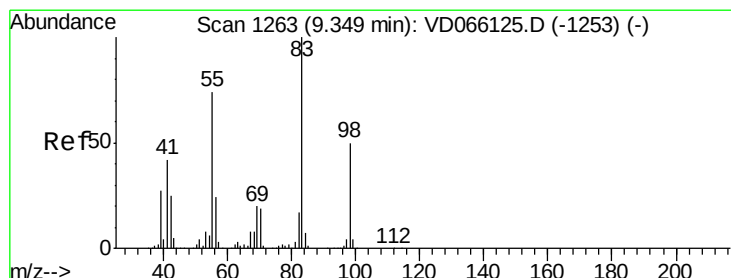
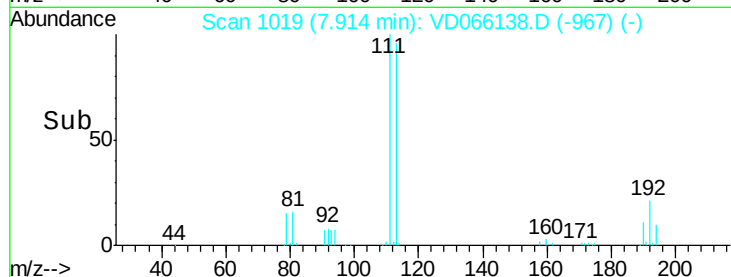
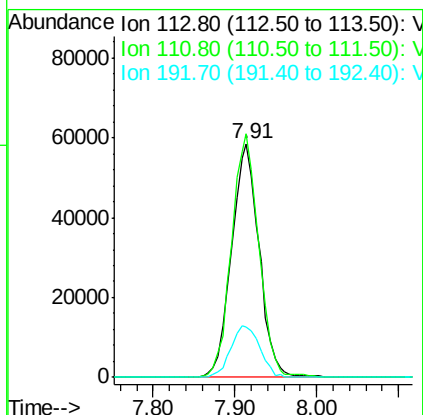
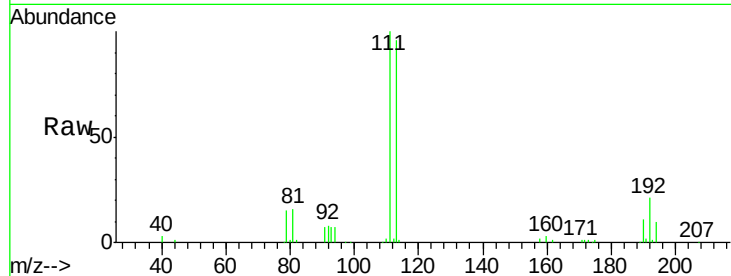




#35  
 Dibromofluoromethane  
 Concen: 47.288 ug/l  
 RT: 7.91 min Scan# 1019  
 Delta R.T. 0.01 min  
 Lab File: VD066138.D  
 Acq: 06 Aug 2020 16:54

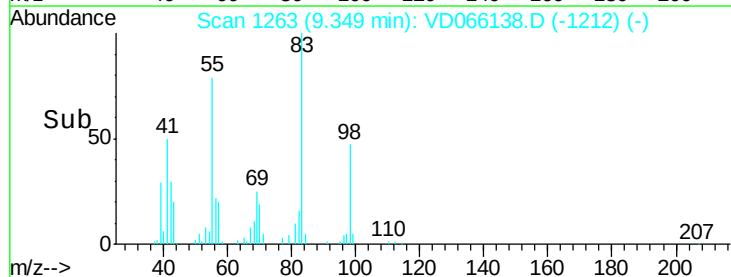
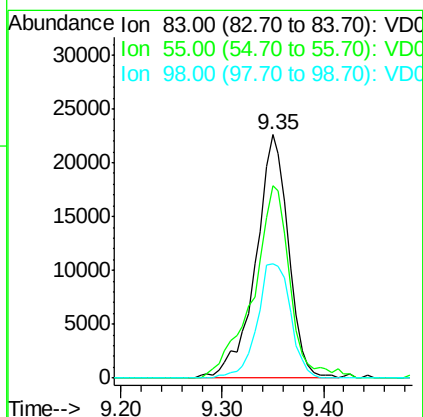
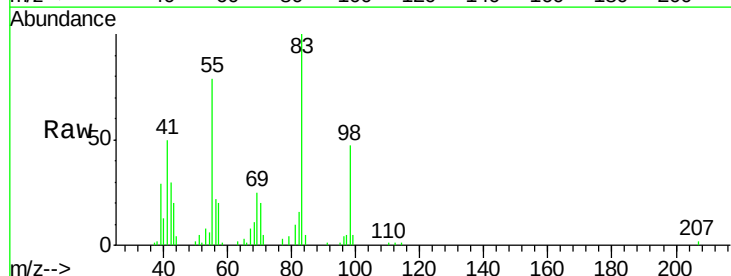
Instrument :  
 MSVOA\_D  
 ClientSampled :  
 8/5-F-J

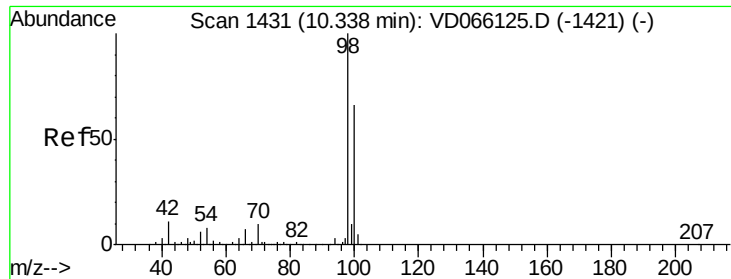
| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 113     | 100   |       |       |
| 111     | 103.1 | 80.7  | 121.1 |
| 192     | 23.3  | 18.4  | 27.6  |



#39  
 Methylcyclohexane  
 Concen: 9.721 ug/l  
 RT: 9.35 min Scan# 1263  
 Delta R.T. 0.00 min  
 Lab File: VD066138.D  
 Acq: 06 Aug 2020 16:54

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 83      | 100   |       |       |
| 55      | 79.0  | 59.2  | 88.8  |
| 98      | 47.0  | 39.8  | 59.6  |

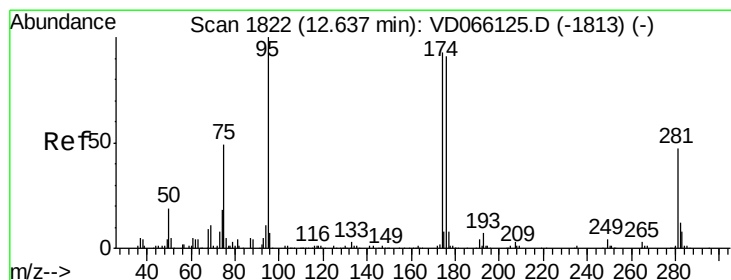
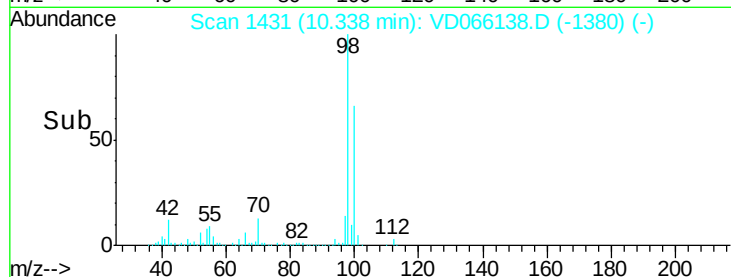
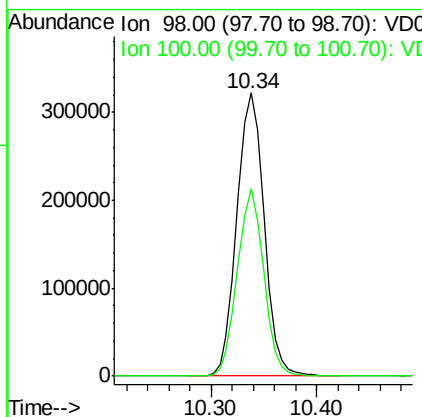
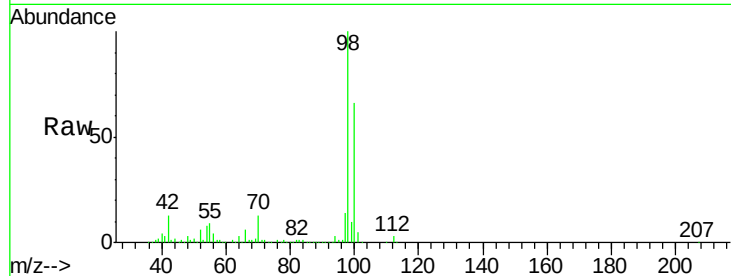




#50  
Toluene-d8  
Concen: 54.033 ug/l  
RT: 10.34 min Scan# 1431  
Delta R.T. 0.00 min  
Lab File: VD066138.D  
Acq: 06 Aug 2020 16:54

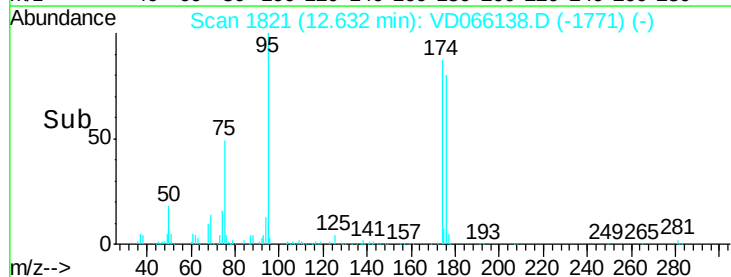
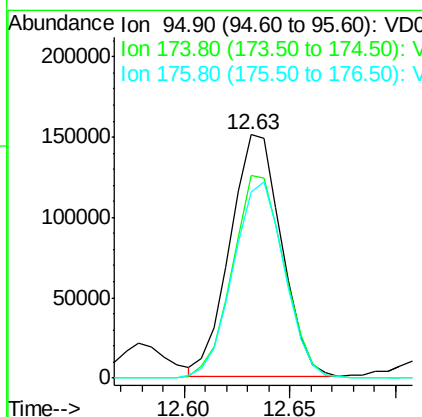
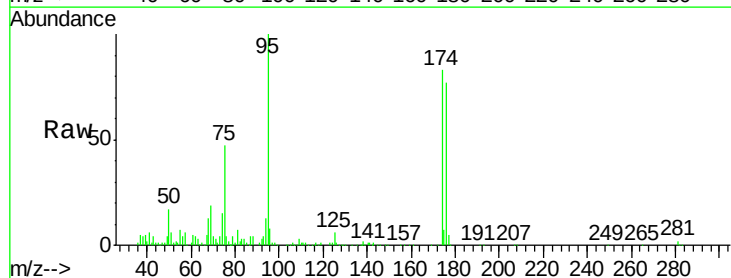
Instrument :  
MSVOA\_D  
ClientSampleId :  
8/5-F-J

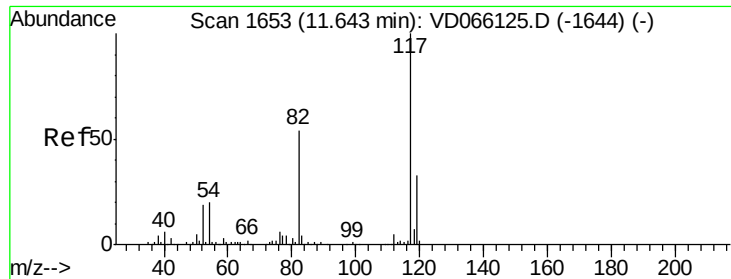
Tot Ion: 98 Resp: 578361  
Ion Ratio Lower Upper  
98 100  
100 63.9 52.6 78.8



#62  
4-Bromofluorobenzene  
Concen: 65.734 ug/l  
RT: 12.63 min Scan# 1821  
Delta R.T. -0.01 min  
Lab File: VD066138.D  
Acq: 06 Aug 2020 16:54

Tgt Ion: 95 Resp: 253620  
Ion Ratio Lower Upper  
95 100  
174 84.6 0.0 180.8  
176 81.1 0.0 181.2

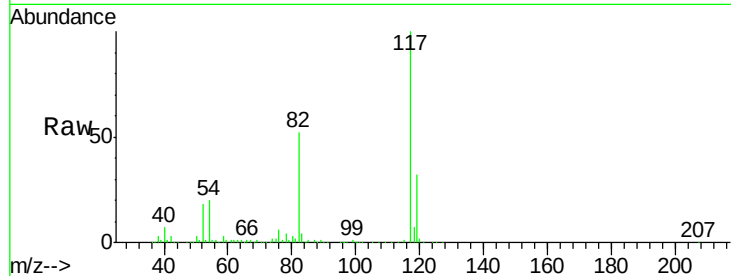




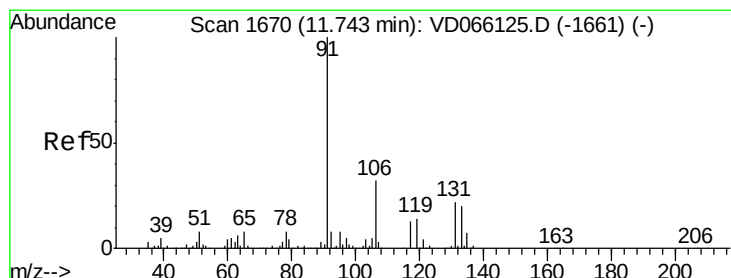
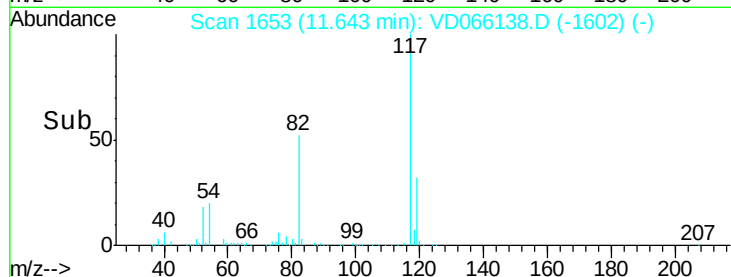
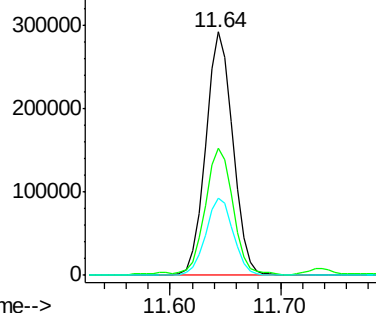
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.64 min Scan# 1653  
Delta R.T. 0.00 min  
Lab File: VD066138.D  
Acq: 06 Aug 2020 16:54

Instrument :  
MSVOA\_D  
ClientSampleId :  
8/5-F-J

| Tot Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 117     | 100   |       |       |
| 82      | 51.1  | 43.0  | 64.4  |
| 119     | 31.8  | 26.1  | 39.1  |

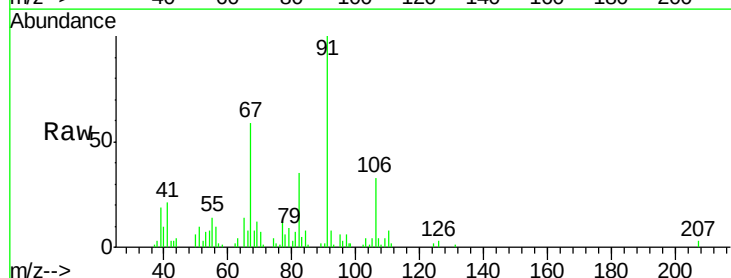


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

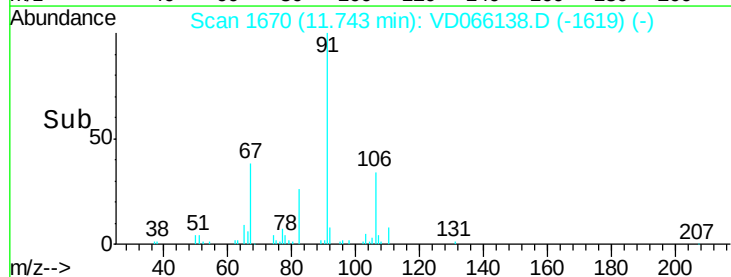
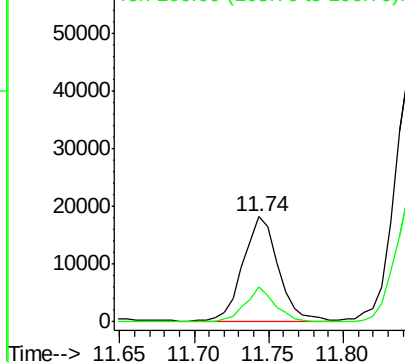


#67  
Ethyl Benzene  
Concen: 1.719 ug/l  
RT: 11.74 min Scan# 1670  
Delta R.T. 0.00 min  
Lab File: VD066138.D  
Acq: 06 Aug 2020 16:54

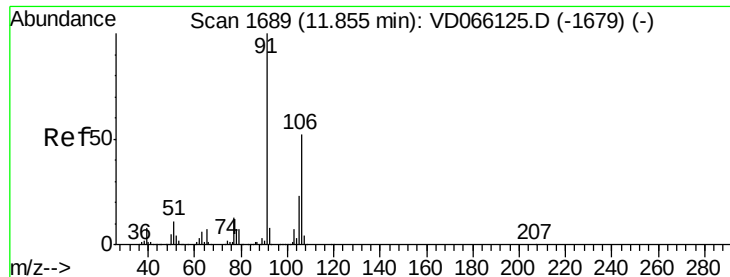
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 91      | 100   |       |       |
| 106     | 33.3  | 25.7  | 38.5  |



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







#68

m/p-Xylenes

Concen: 6.780 ug/l

RT: 11.85 min Scan# 1688

Delta R.T. -0.01 min

Lab File: VD066138.D

Acq: 06 Aug 2020 16:54

Instrument :

MSVOA\_D

ClientSampleId :

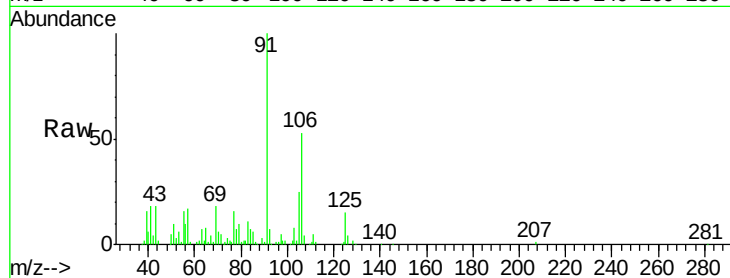
8/5-F-J

Tot Ion:106 Resp: 46651

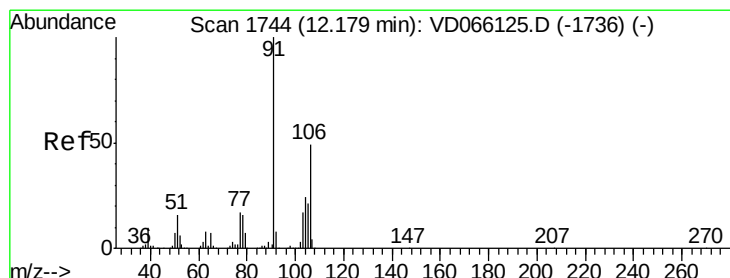
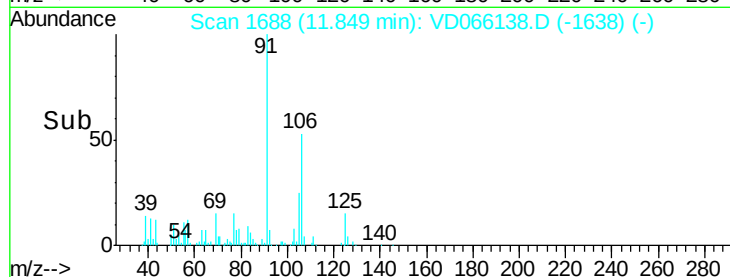
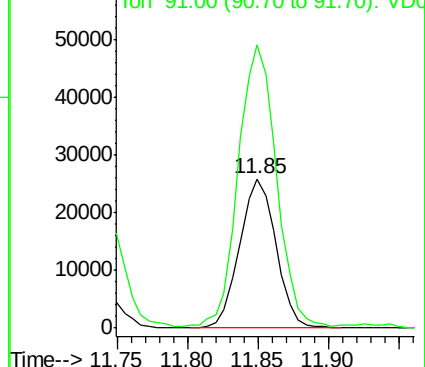
Ion Ratio Lower Upper

106 100

91 200.2 156.6 235.0



Abundance Ion 106.00 (105.70 to 106.70): V



#69

o-Xylene

Concen: 6.010 ug/l

RT: 12.18 min Scan# 1745

Delta R.T. 0.01 min

Lab File: VD066138.D

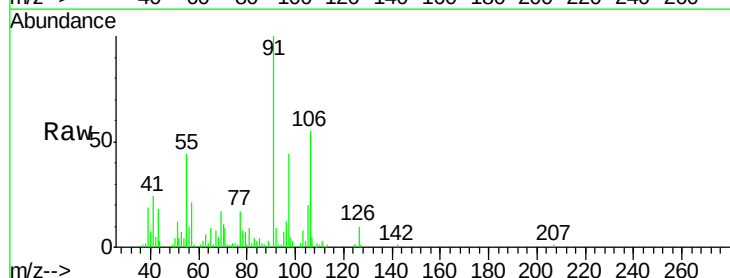
Acq: 06 Aug 2020 16:54

Tgt Ion:106 Resp: 37619

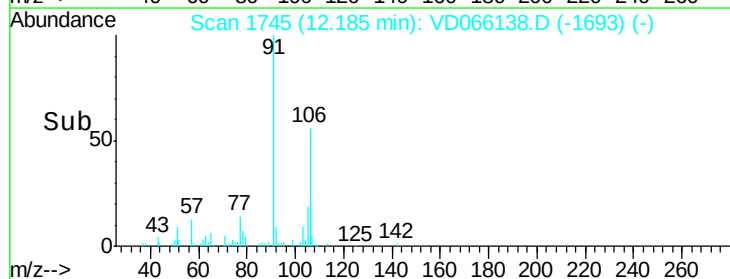
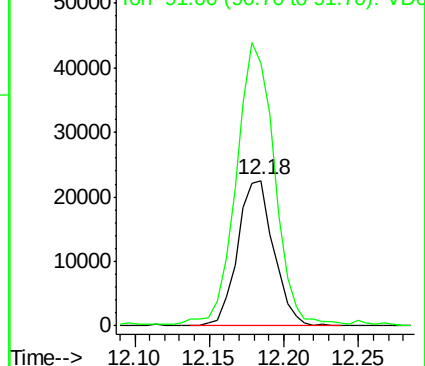
Ion Ratio Lower Upper

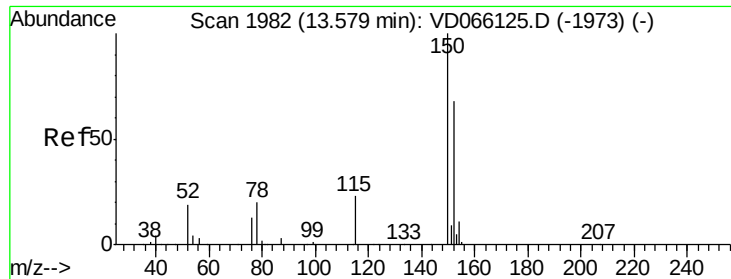
106 100

91 204.6 105.7 317.1



Abundance Ion 106.00 (105.70 to 106.70): 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: VD066138.D

Acq: 06 Aug 2020 16:54

Instrument :

MSVOA\_D

ClientSampleId :

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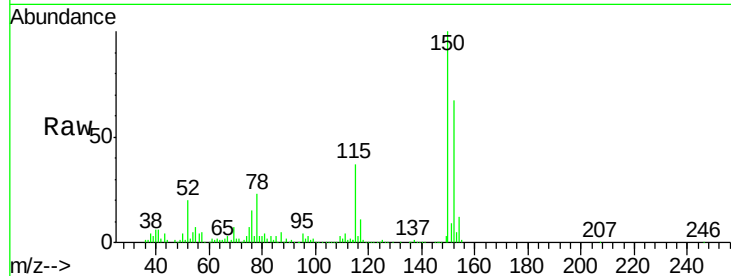
Tot Ion:152 Resp: 256016

Ion Ratio Lower Upper

152 100

115 55.6 28.0 83.9

150 151.9 0.0 346.4



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

300000

250000

200000

150000

100000

50000

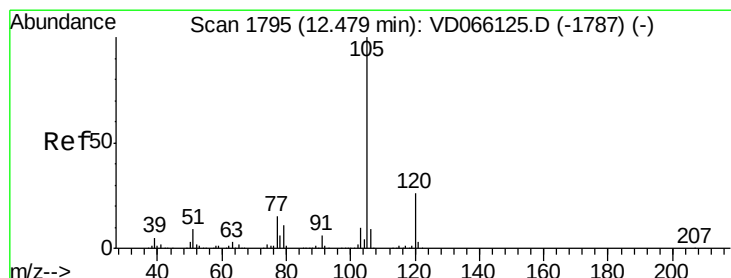
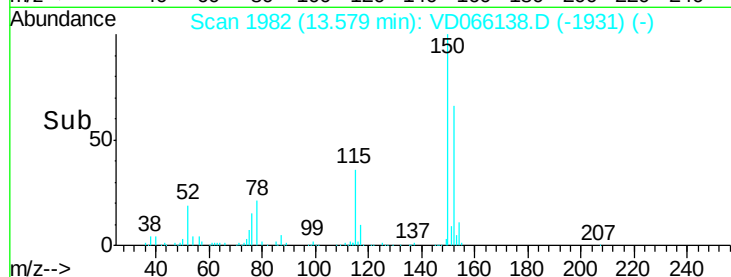
0

13.58

13.50

13.60

Time-->



#73

Isopropylbenzene

Concen: 2.377 ug/l

RT: 12.48 min Scan# 1796

Delta R.T. 0.01 min

Lab File: VD066138.D

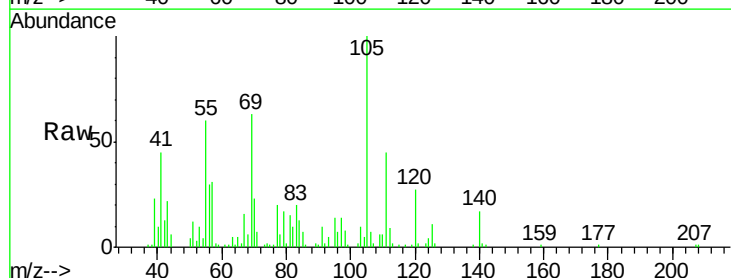
Acq: 06 Aug 2020 16:54

Tgt Ion:105 Resp: 40624

Ion Ratio Lower Upper

105 100

120 26.3 13.3 39.9



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

25000

20000

15000

10000

5000

0

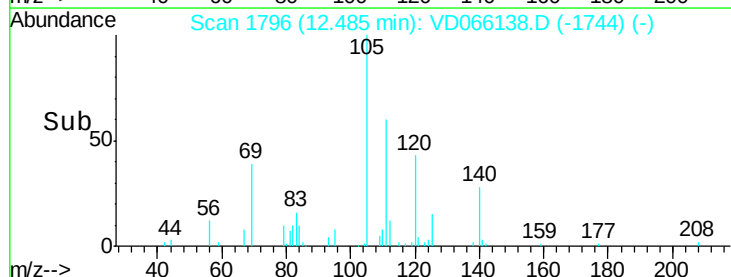
12.48

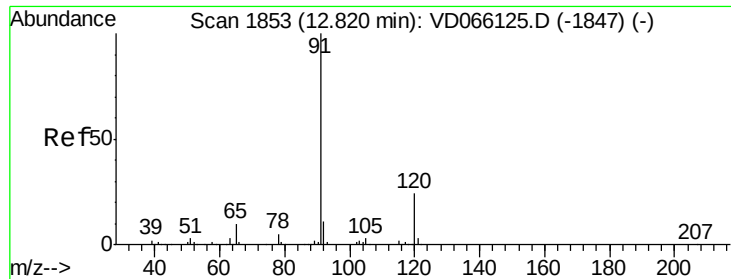
12.40

12.50

12.55

Time-->





#78

n-propylbenzene

Concen: 1.939 ug/l

RT: 12.83 min Scan# 1854

Delta R.T. 0.01 min

Lab File: VD066138.D

Acq: 06 Aug 2020 16:54

Instrument :

MSVOA\_D

ClientSampleId :

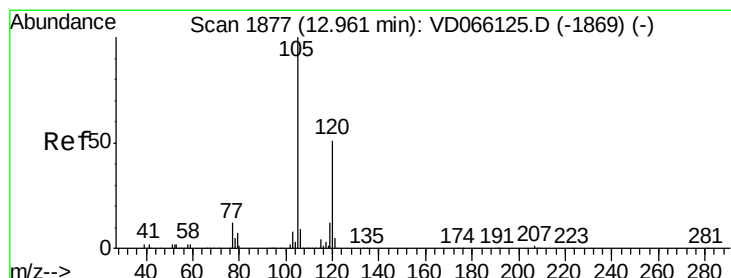
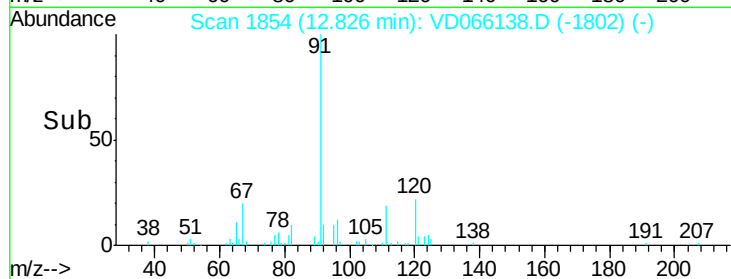
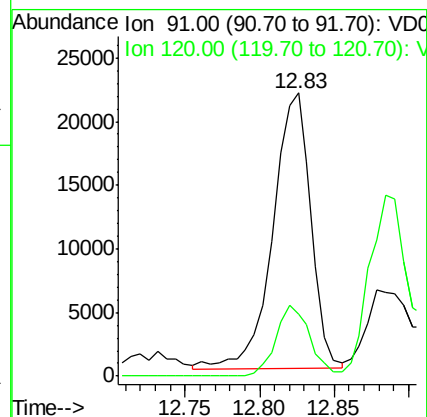
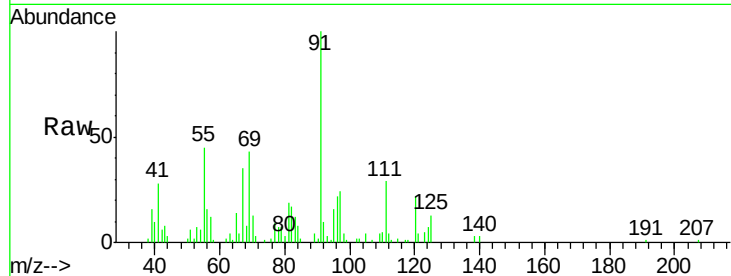
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Tot Ion: 91 Resp: 38513

Ion Ratio Lower Upper

91 100

120 22.8 12.0 36.0



#80

1,3,5-Trimethylbenzene

Concen: 3.714 ug/l

RT: 12.96 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VD066138.D

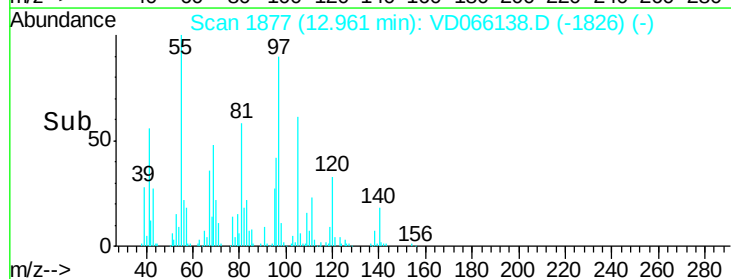
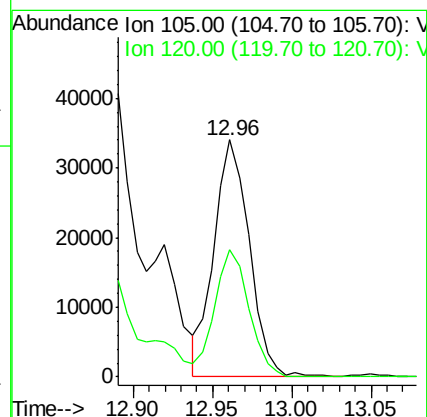
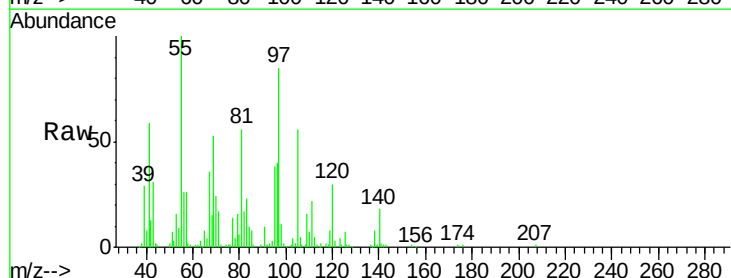
Acq: 06 Aug 2020 16:54

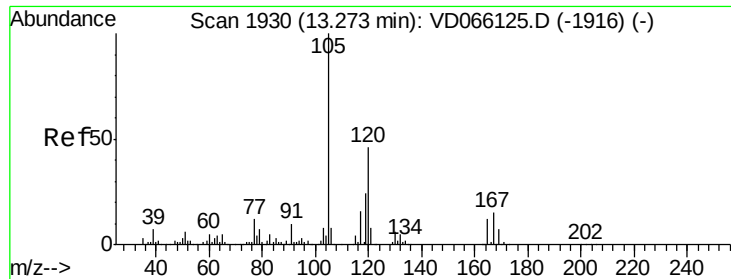
Tgt Ion:105 Resp: 53087

Ion Ratio Lower Upper

105 100

120 51.8 25.3 75.8

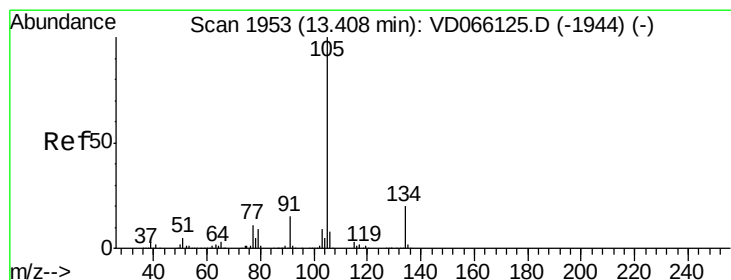
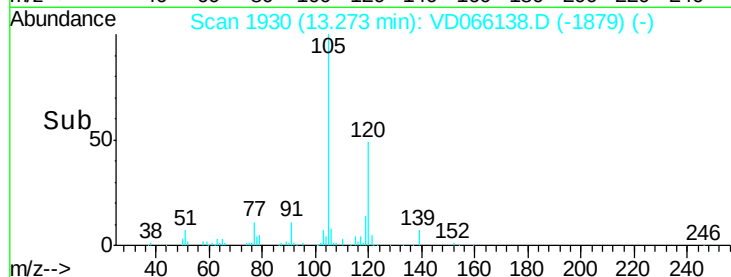
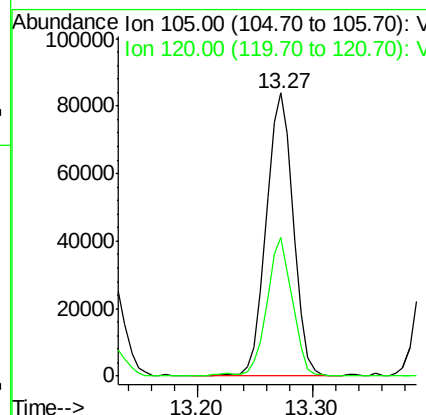
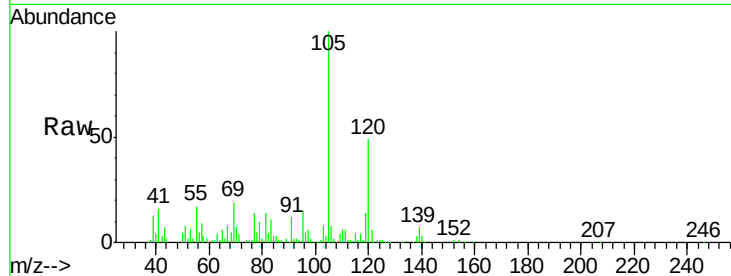




#84  
 1,2,4-Trimethylbenzene  
 Concen: 9.549 ug/l  
 RT: 13.27 min Scan# 1930  
 Delta R.T. 0.00 min  
 Lab File: VD066138.D  
 Acq: 06 Aug 2020 16:54

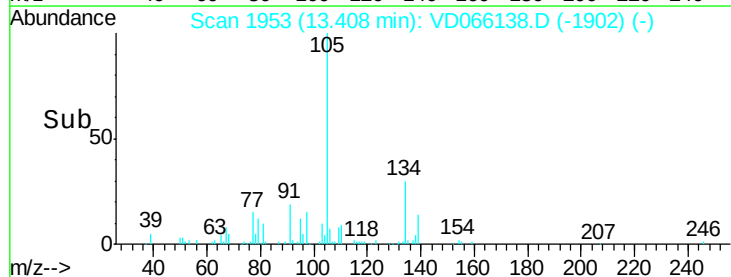
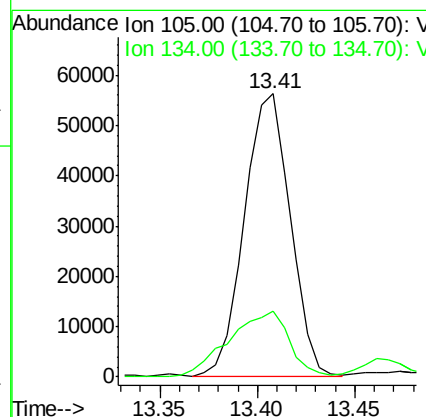
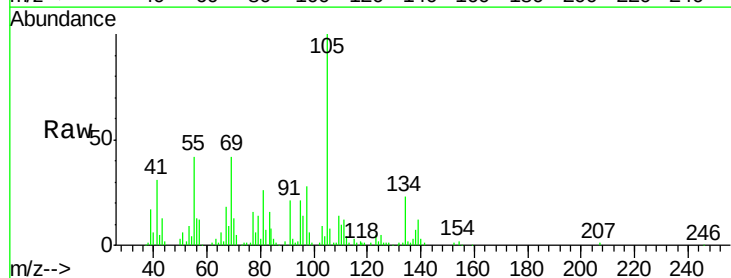
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
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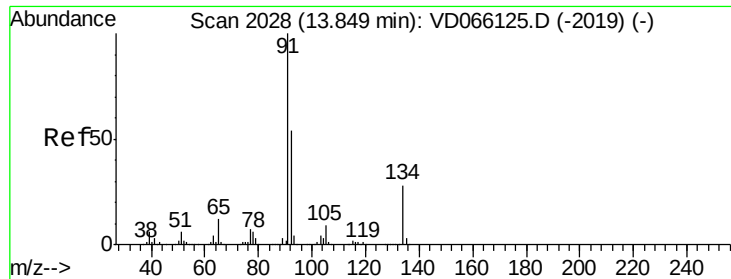
Tot Ion:105 Resp: 136587  
 Ion Ratio Lower Upper  
 105 100  
 120 46.7 23.1 69.2



#85  
 sec-Butylbenzene  
 Concen: 5.369 ug/l  
 RT: 13.41 min Scan# 1953  
 Delta R.T. 0.00 min  
 Lab File: VD066138.D  
 Acq: 06 Aug 2020 16:54

Tgt Ion:105 Resp: 91114  
 Ion Ratio Lower Upper  
 105 100  
 134 30.6 10.4 31.4

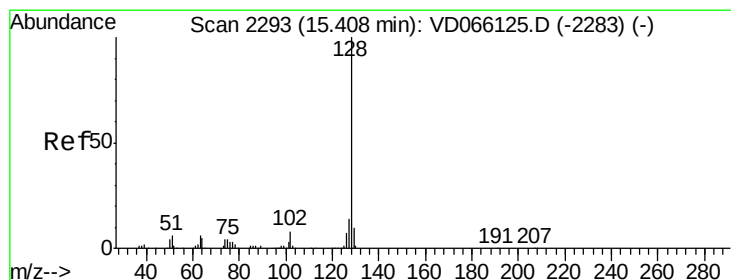
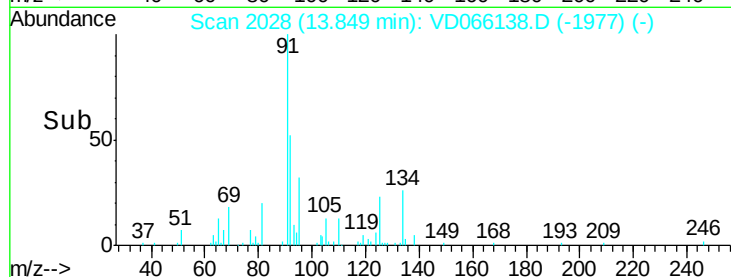
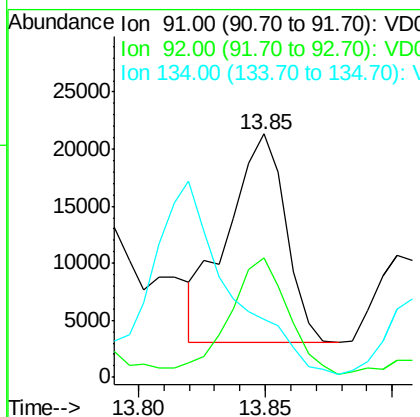
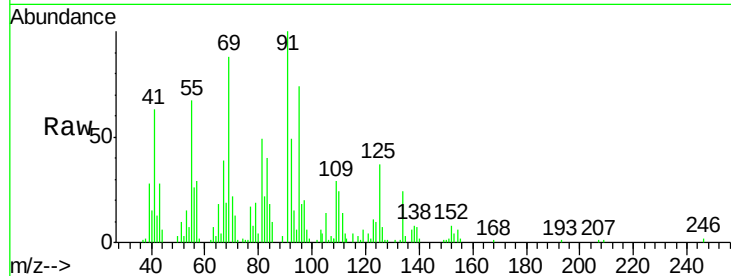




#89  
n-Butylbenzene  
Concen: 2.027 ug/l  
RT: 13.85 min Scan# 2028  
Delta R.T. 0.00 min  
Lab File: VD066138.D  
Acq: 06 Aug 2020 16:54

Instrument :  
MSVOA\_D  
ClientSampleId :  
8/5-F-J

Tot Ion: 91 Resp: 28911  
Ion Ratio Lower Upper  
91 100  
92 57.4 26.8 80.3  
134 0.0 14.0 41.9#



#95  
Naphthalene  
Concen: 18.490 ug/l  
RT: 15.41 min Scan# 2293  
Delta R.T. 0.00 min  
Lab File: VD066138.D  
Acq: 06 Aug 2020 16:54

Tgt Ion: 128 Resp: 162346  
Ion Ratio Lower Upper  
128 100  
127 13.7 11.0 16.4  
129 9.3 8.8 13.2

