

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD112520\  
 Data File : VD067799.D  
 Acq On : 25 Nov 2020 20:41  
 Operator : VA/SY  
 Sample : L4858-02  
 Misc : 5.45G/5.00ml/MSVOA D/SOIL  
 ALS Vial : 20 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PHC-340EM-013

Quant Time: Nov 26 03:04:38 2020  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D112320S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Nov 24 00:51:35 2020  
 Response via : Initial Calibration

| Internal Standards         | R.T.  | QIon | Response | Conc  | Units | Dev(Min) |
|----------------------------|-------|------|----------|-------|-------|----------|
| 1) Pentafluorobenzene      | 7.98  | 168  | 197714   | 50.00 | ug/l  | 0.00     |
| 34) 1,4-Difluorobenzene    | 8.87  | 114  | 300464   | 50.00 | ug/l  | 0.00     |
| 63) Chlorobenzene-d5       | 11.65 | 117  | 250276   | 50.00 | ug/l  | 0.00     |
| 72) 1,4-Dichlorobenzene-d4 | 13.58 | 152  | 98144    | 50.00 | ug/l  | 0.00     |

## System Monitoring Compounds

|                           |        |       |          |          |      |         |
|---------------------------|--------|-------|----------|----------|------|---------|
| 33) 1,2-Dichloroethane-d4 | 8.34   | 65    | 103706   | 53.95    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 50 - 163 | Recovery | =    | 107.90% |
| 35) Dibromofluoromethane  | 7.93   | 113   | 91302    | 47.75    | ug/l | 0.01    |
| Spiked Amount             | 50.000 | Range | 54 - 147 | Recovery | =    | 95.50%  |
| 50) Toluene-d8            | 10.34  | 98    | 323305   | 46.25    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 49 - 140 | Recovery | =    | 92.50%  |
| 62) 4-Bromofluorobenzene  | 12.64  | 95    | 95636    | 40.02    | ug/l | 0.00    |
| Spiked Amount             | 50.000 | Range | 25 - 144 | Recovery | =    | 80.04%  |

## Target Compounds

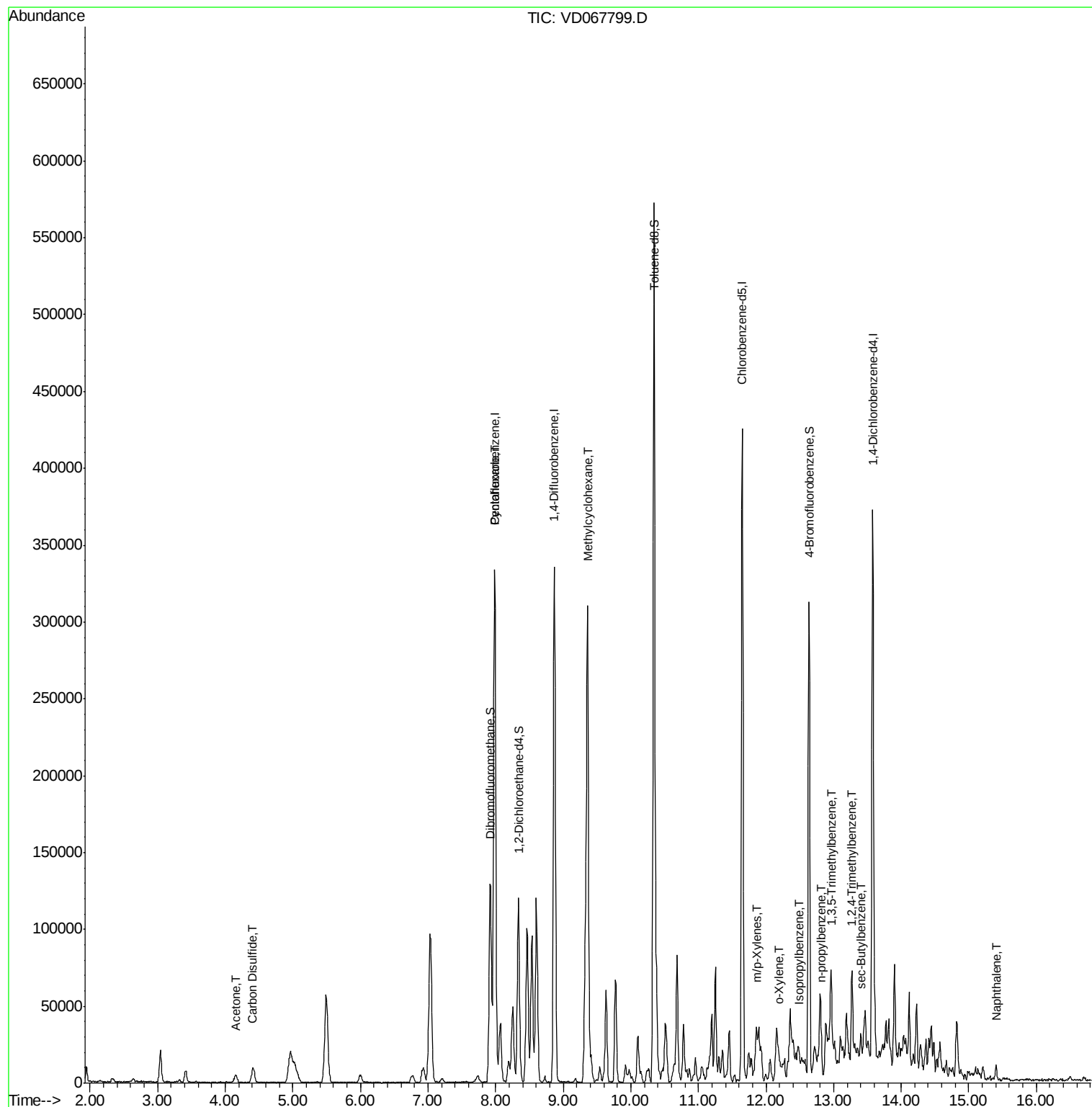
|                            |       |     |        |        | Qvalue    |
|----------------------------|-------|-----|--------|--------|-----------|
| 16) Acetone                | 4.16  | 43  | 6320   | 25.448 | ug/l 92   |
| 17) Carbon Disulfide       | 4.41  | 76  | 21369  | 4.552  | ug/l 99   |
| 31) Cyclohexane            | 7.99  | 56  | 43217  | 18.580 | ug/l 96   |
| 39) Methylcyclohexane      | 9.36  | 83  | 151264 | 49.574 | ug/l 98   |
| 68) m/p-Xylenes            | 11.86 | 106 | 9128   | 2.762  | ug/l 94   |
| 69) o-Xylene               | 12.19 | 106 | 3281   | 1.090  | ug/l 94   |
| 73) Isopropylbenzene       | 12.49 | 105 | 7384   | 1.143  | ug/l 98   |
| 78) n-propylbenzene        | 12.82 | 91  | 8350   | 1.162  | ug/l 93   |
| 80) 1,3,5-Trimethylbenzene | 12.97 | 105 | 14272  | 2.541  | ug/l 95   |
| 84) 1,2,4-Trimethylbenzene | 13.27 | 105 | 32538  | 5.799  | ug/l 97   |
| 85) sec-Butylbenzene       | 13.40 | 105 | 6875   | 1.084  | ug/l # 67 |
| 95) Naphthalene            | 15.40 | 128 | 10230  | 3.313  | ug/l 98   |

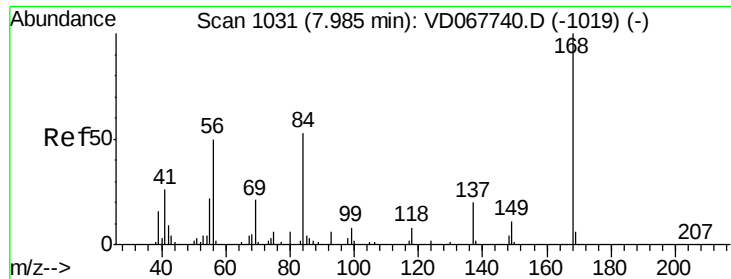
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Nov 24 00:51:35 2020  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.98 min Scan# 1031

Delta R.T. 0.00 min

Lab File: VD067799.D

Acq: 25 Nov 2020 20:41

Instrument :

MSVOA\_D

ClientSampleId :

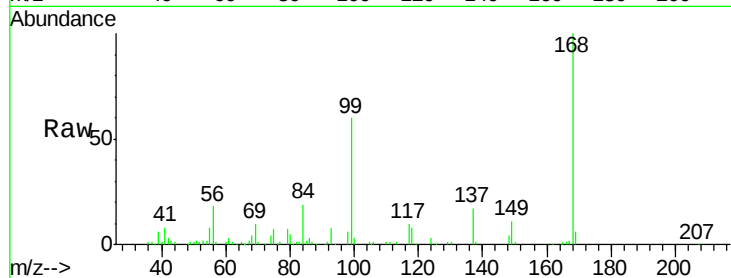
PHC-340EM-013

Tot Ion:168 Resp: 197714

Ion Ratio Lower Upper

168 100

99 59.7 43.8 65.8



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VDC

7.98

80000

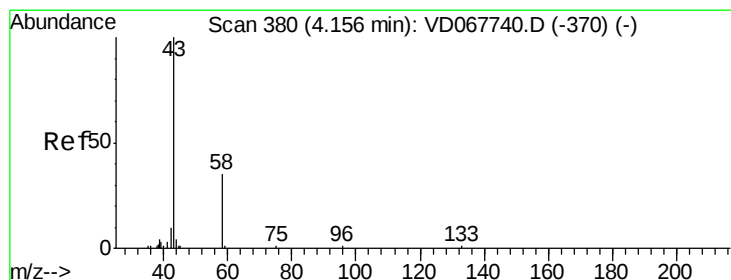
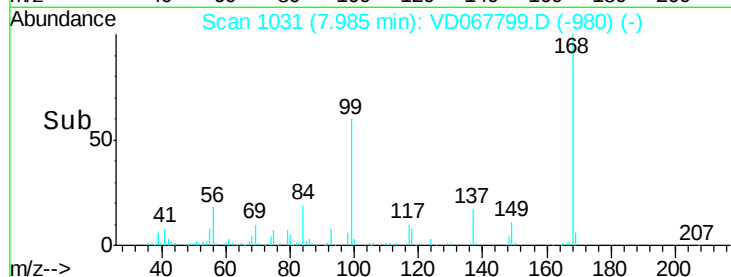
60000

40000

20000

0

Time-->



#16

Acetone

Concen: 25.448 ug/l

RT: 4.16 min Scan# 381

Delta R.T. 0.01 min

Lab File: VD067799.D

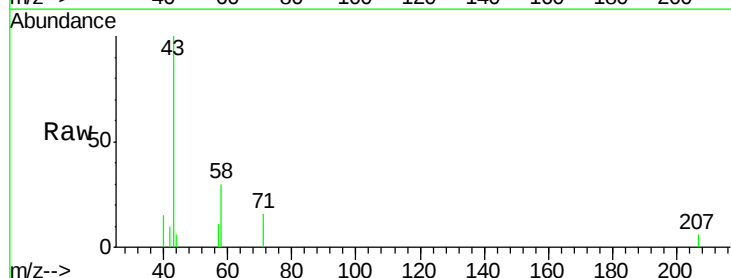
Acq: 25 Nov 2020 20:41

Tgt Ion: 43 Resp: 6320

Ion Ratio Lower Upper

43 100

58 29.8 27.6 41.4



Abundance Ion 43.00 (42.70 to 43.70): VDC

Ion 58.00 (57.70 to 58.70): VDC

4.16

2500

2000

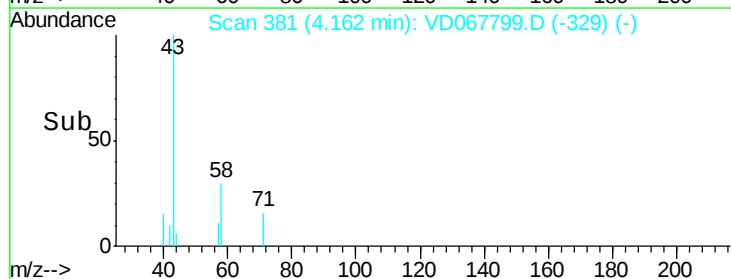
1500

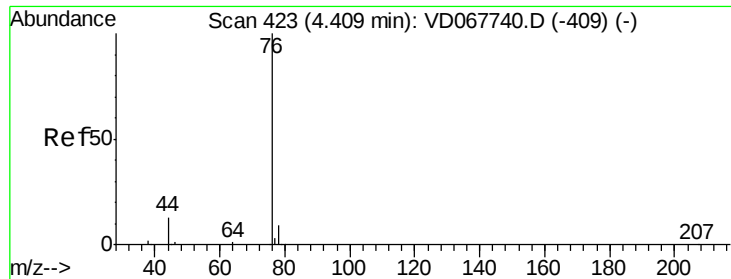
1000

500

0

Time-->

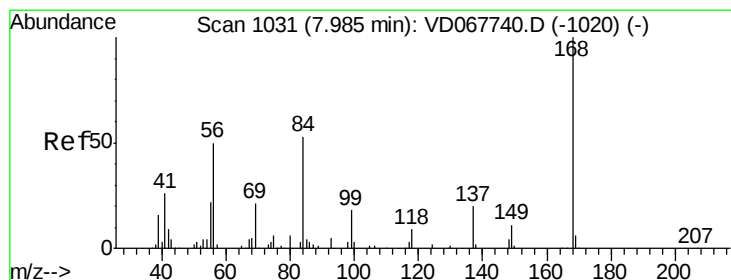
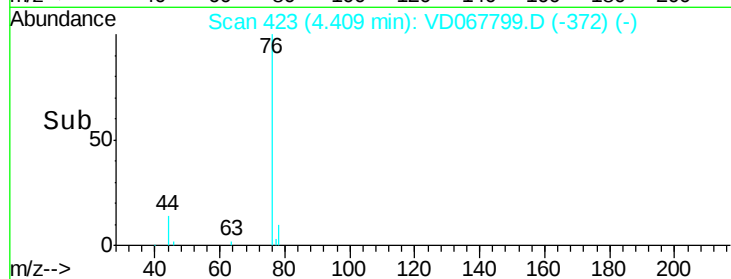
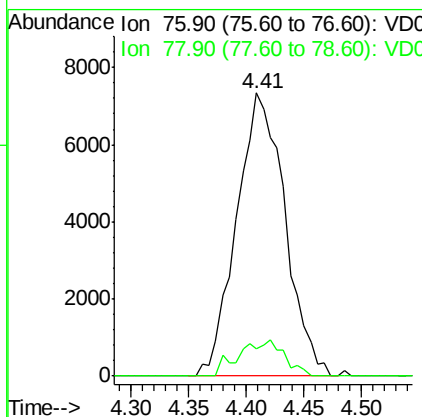
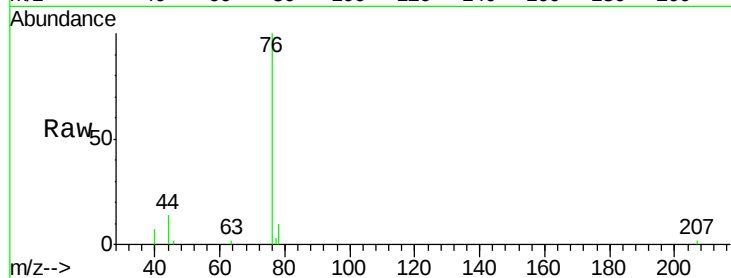




#17  
Carbon Disulfide  
Concen: 4.552 ug/l  
RT: 4.41 min Scan# 423  
Delta R.T. 0.00 min  
Lab File: VD067799.D  
Acq: 25 Nov 2020 20:41

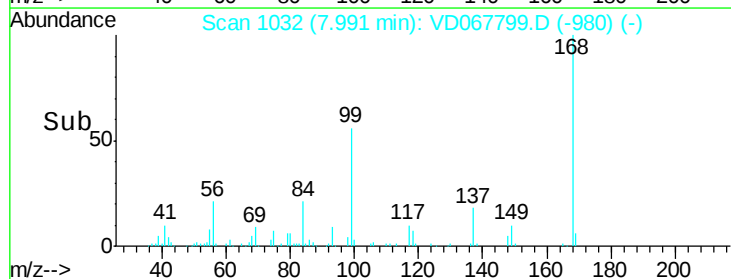
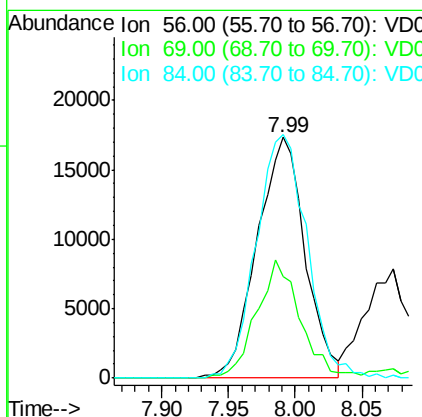
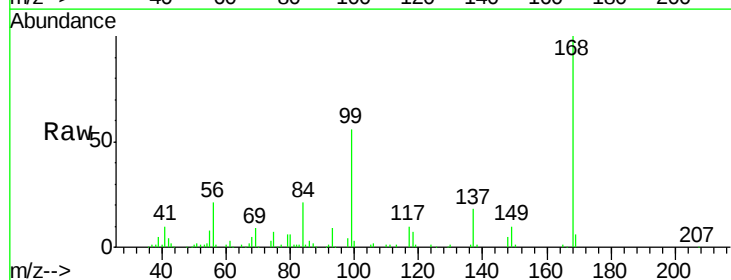
Instrument :  
MSVOA\_D  
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PHC-340EM-013

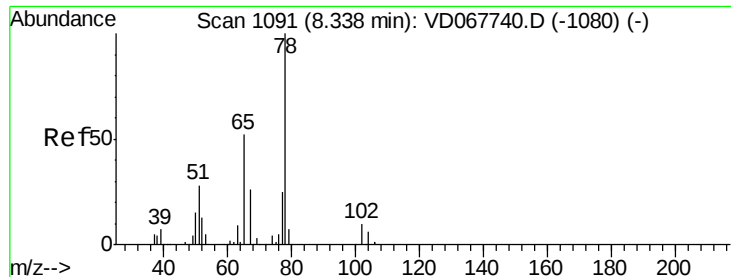
Tot Ion: 76 Resp: 21369  
Ion Ratio Lower Upper  
76 100  
78 9.6 7.5 11.3



#31  
Cyclohexane  
Concen: 18.580 ug/l  
RT: 7.99 min Scan# 1032  
Delta R.T. 0.01 min  
Lab File: VD067799.D  
Acq: 25 Nov 2020 20:41

Tgt Ion: 56 Resp: 43217  
Ion Ratio Lower Upper  
56 100  
69 42.0 33.2 49.8  
84 101.2 84.8 127.2





#33

1,2-Dichloroethane-d4

Concen: 53.946 ug/l

RT: 8.34 min Scan# 1091

Delta R.T. 0.00 min

Lab File: VD067799.D

Acq: 25 Nov 2020 20:41

Instrument :

MSVOA\_D

ClientSampleId :

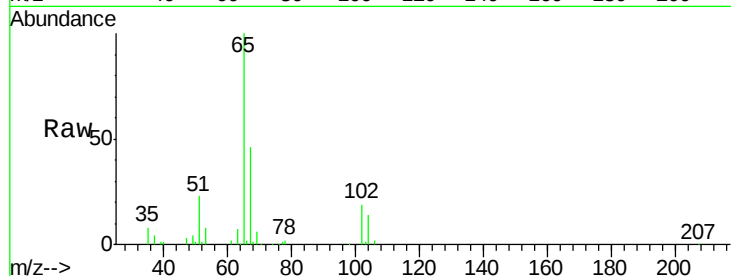
PHC-340EM-013

Tot Ion: 65 Resp: 103706

Ion Ratio Lower Upper

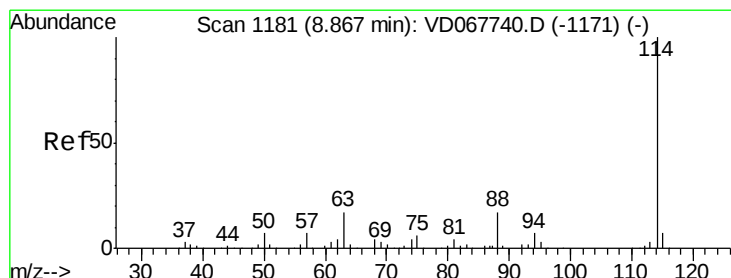
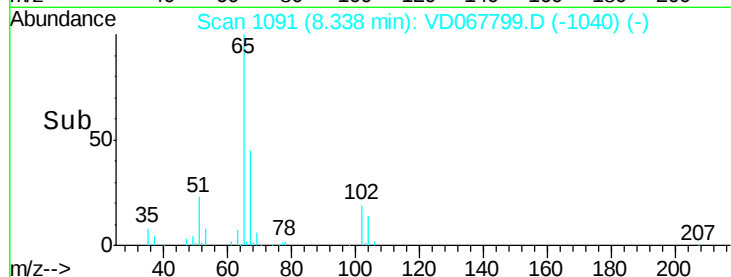
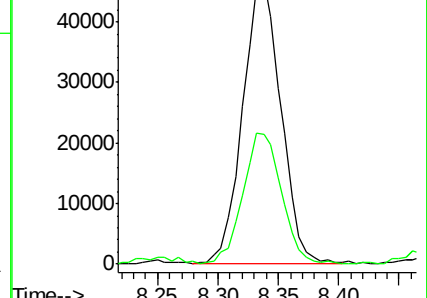
65 100

67 47.0 0.0 101.0



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: 8.87 min Scan# 1181

Delta R.T. 0.00 min

Lab File: VD067799.D

Acq: 25 Nov 2020 20:41

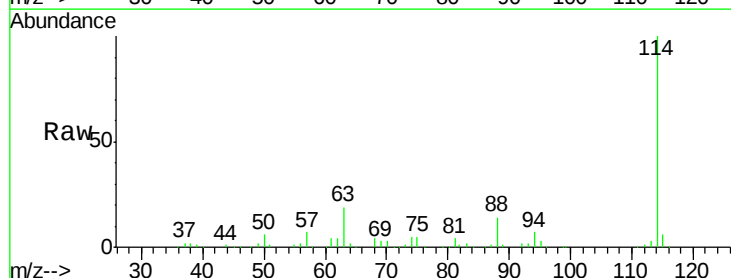
Tgt Ion: 114 Resp: 300464

Ion Ratio Lower Upper

114 100

63 19.2 0.0 34.8

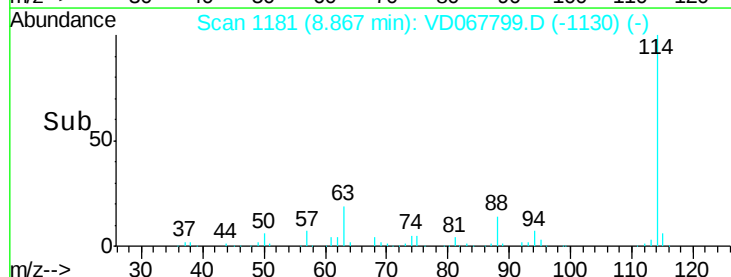
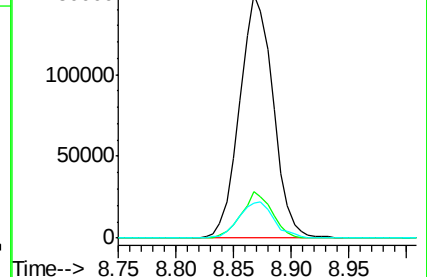
88 14.4 0.0 34.4

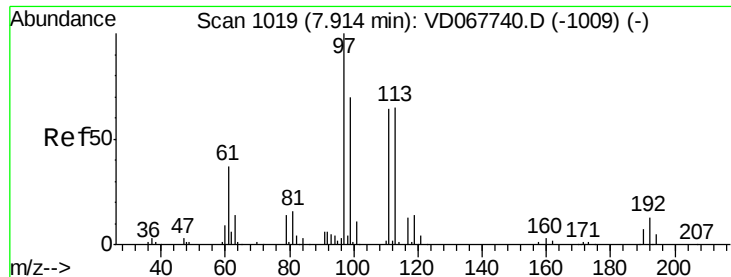


Abundance Ion 113.90 (113.60 to 114.60): VDC

Ion 63.00 (62.70 to 63.70): VDC

Ion 87.90 (87.60 to 88.60): VDC

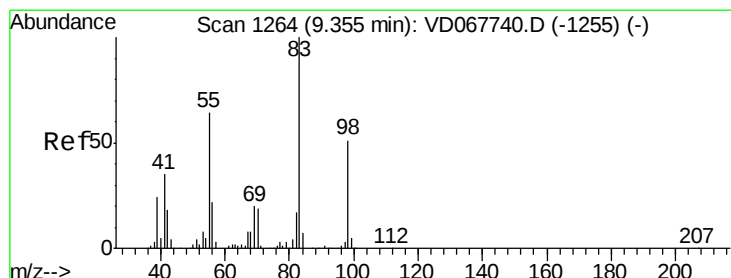
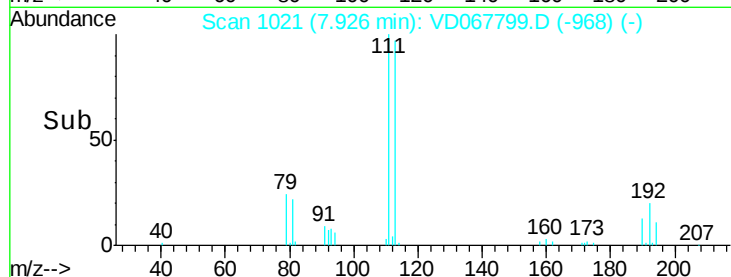
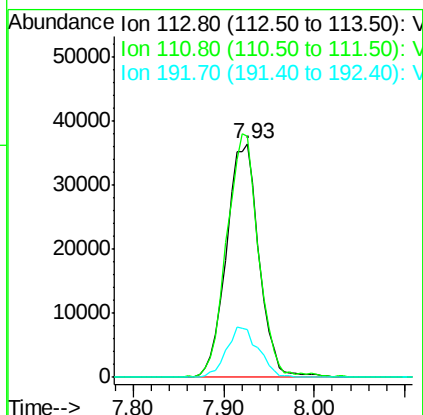
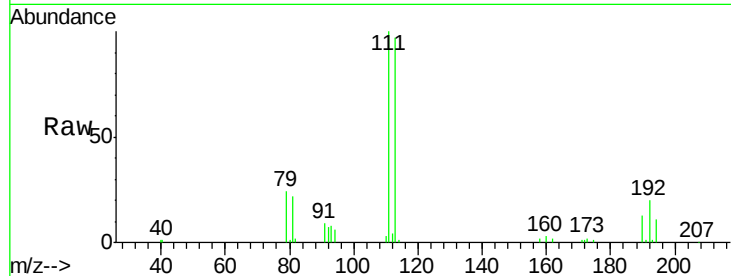




#35  
Dibromofluoromethane  
Concen: 47.748 ug/l  
RT: 7.93 min Scan# 1021  
Delta R.T. 0.01 min  
Lab File: VD067799.D  
Acq: 25 Nov 2020 20:41

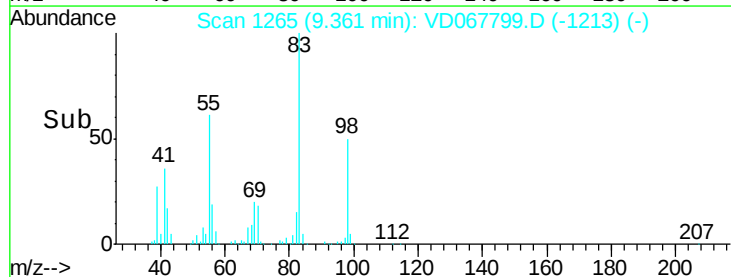
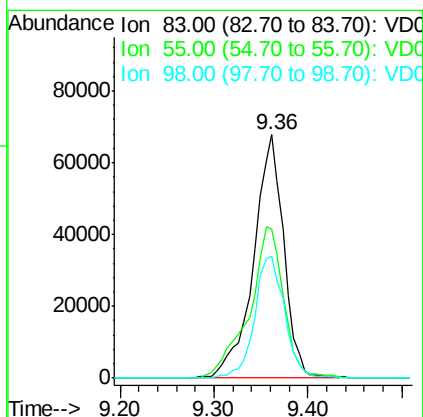
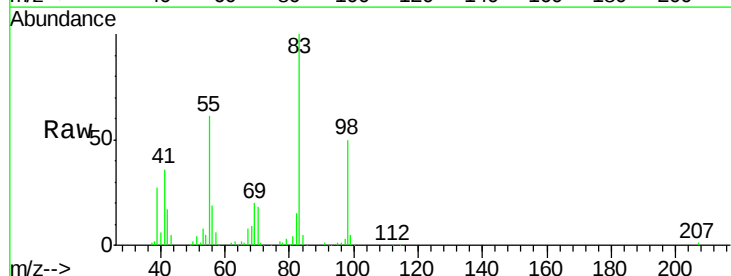
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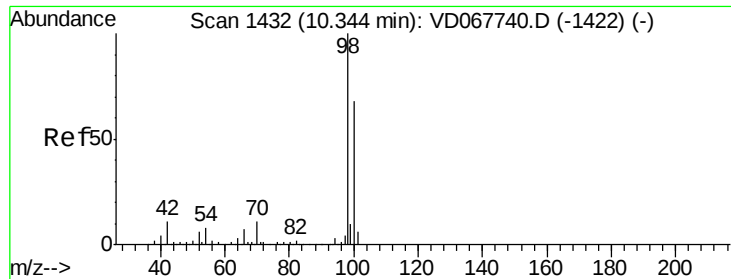
Tot Ion:113 Resp: 91302  
Ion Ratio Lower Upper  
113 100  
111 101.8 81.4 122.0  
192 20.9 17.0 25.4



#39  
Methylcyclohexane  
Concen: 49.574 ug/l  
RT: 9.36 min Scan# 1265  
Delta R.T. 0.01 min  
Lab File: VD067799.D  
Acq: 25 Nov 2020 20:41

Tgt Ion: 83 Resp: 151264  
Ion Ratio Lower Upper  
83 100  
55 61.2 51.0 76.4  
98 50.3 40.4 60.6

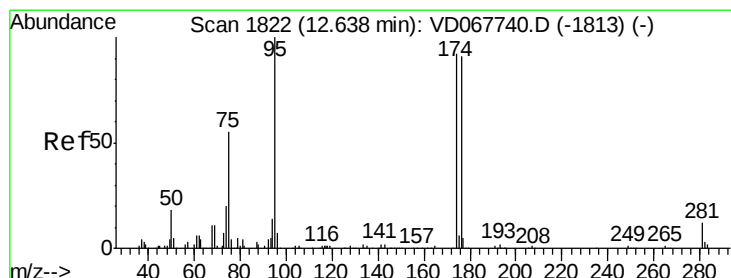
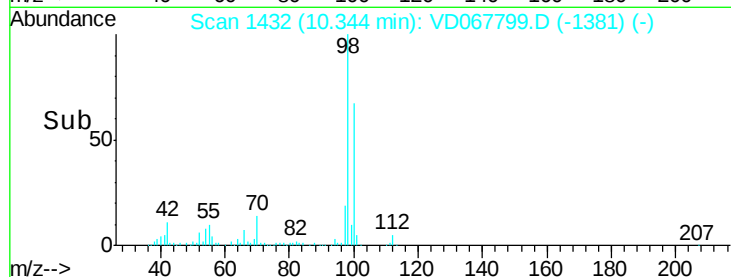
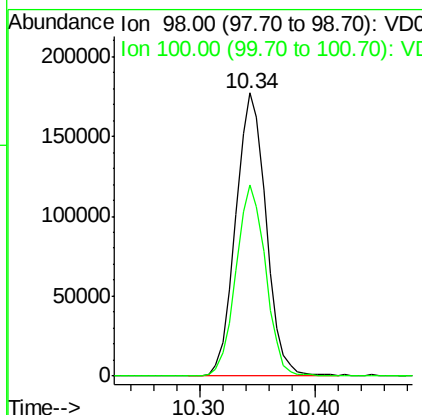
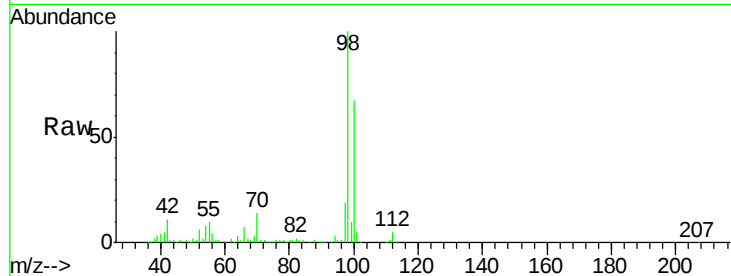




#50  
Toluene-d8  
Concen: 46.246 ug/l  
RT: 10.34 min Scan# 1432  
Delta R.T. 0.00 min  
Lab File: VD067799.D  
Acq: 25 Nov 2020 20:41

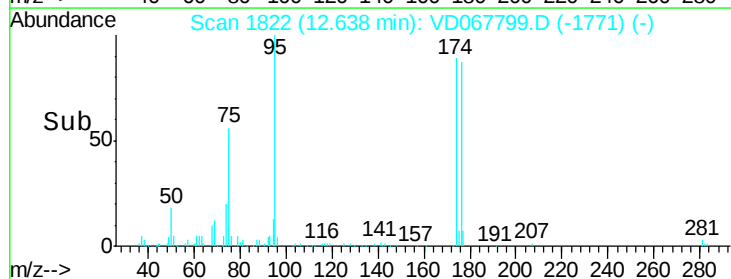
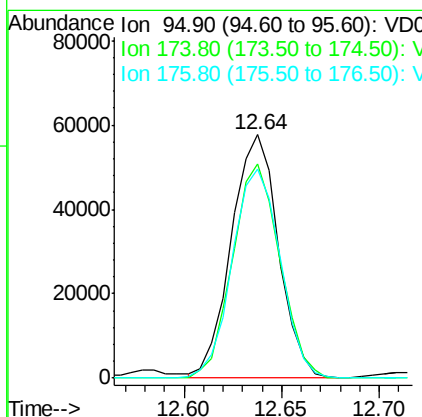
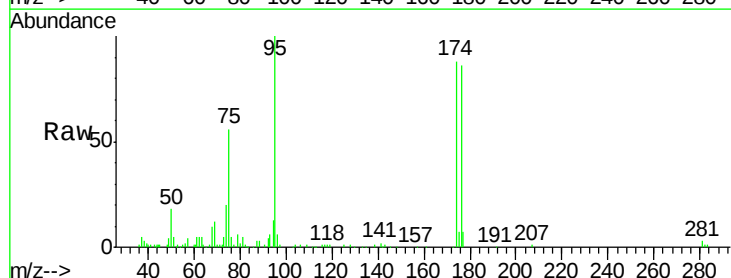
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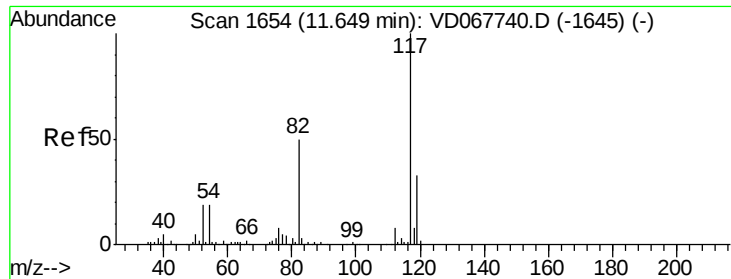
Tot Ion: 98 Resp: 323305  
Ion Ratio Lower Upper  
98 100  
100 65.8 53.1 79.7



#62  
4-Bromofluorobenzene  
Concen: 40.023 ug/l  
RT: 12.64 min Scan# 1822  
Delta R.T. 0.00 min  
Lab File: VD067799.D  
Acq: 25 Nov 2020 20:41

Tgt Ion: 95 Resp: 95636  
Ion Ratio Lower Upper  
95 100  
174 89.5 0.0 182.4  
176 88.4 0.0 178.2

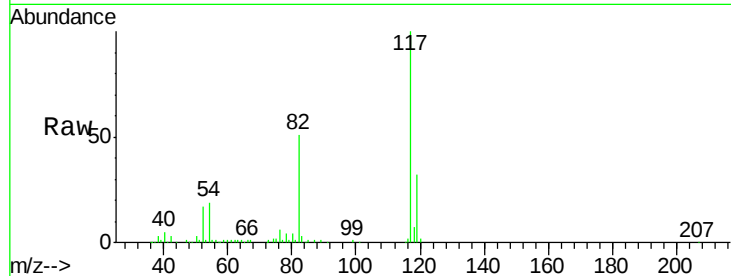




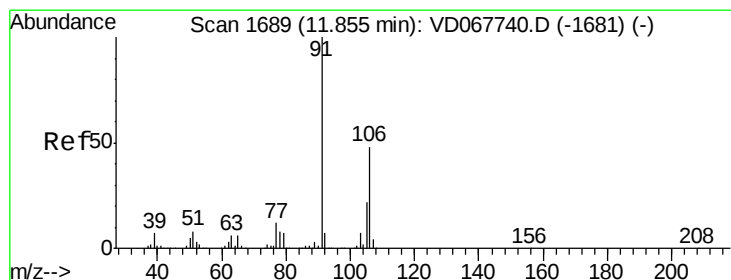
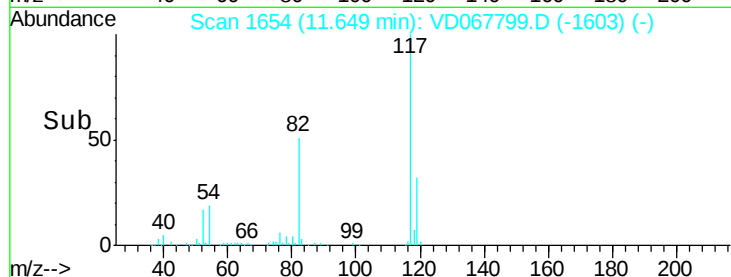
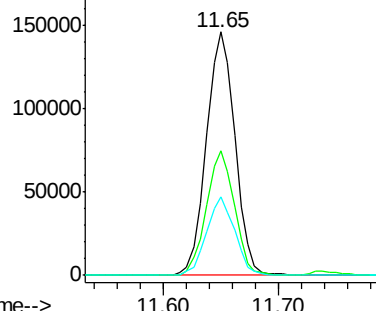
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.65 min Scan# 1654  
Delta R.T. 0.00 min  
Lab File: VD067799.D  
Acq: 25 Nov 2020 20:41

Instrument :  
MSVOA\_D  
ClientSampleId :  
PHC-340EM-013

Tot Ion:117 Resp: 250276  
Ion Ratio Lower Upper  
117 100  
82 51.0 40.2 60.4  
119 32.5 26.5 39.7

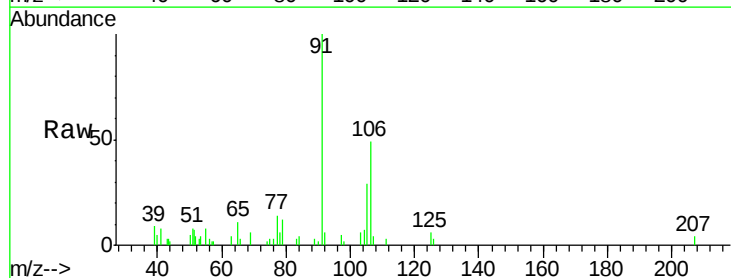


Abundance Ion 116.90 (116.60 to 117.60): V  
Ion 82.00 (81.70 to 82.70): V  
Ion 118.90 (118.60 to 119.60): V

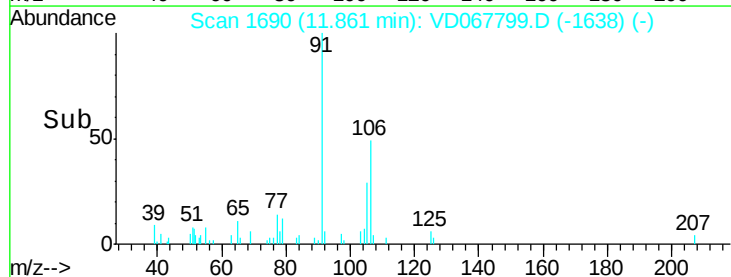
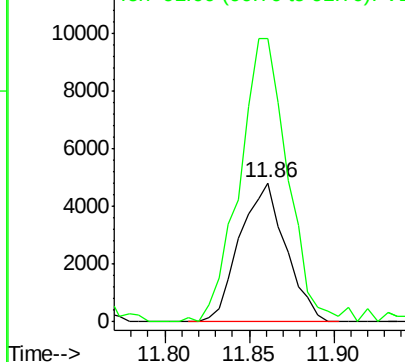


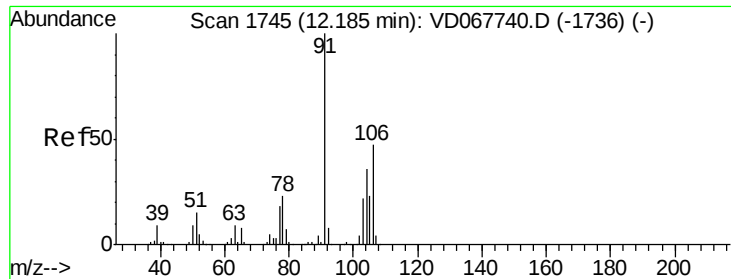
#68  
m/p-Xylenes  
Concen: 2.762 ug/l  
RT: 11.86 min Scan# 1690  
Delta R.T. 0.01 min  
Lab File: VD067799.D  
Acq: 25 Nov 2020 20:41

Tgt Ion:106 Resp: 9128  
Ion Ratio Lower Upper  
106 100  
91 212.3 163.0 244.6



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

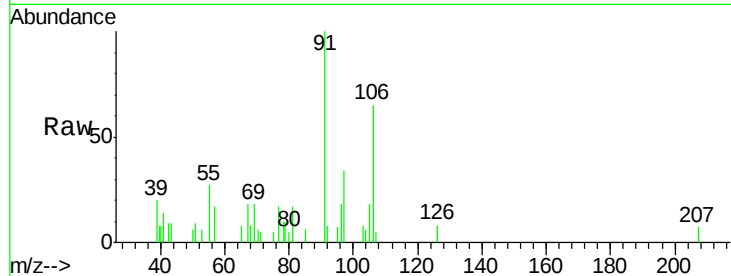




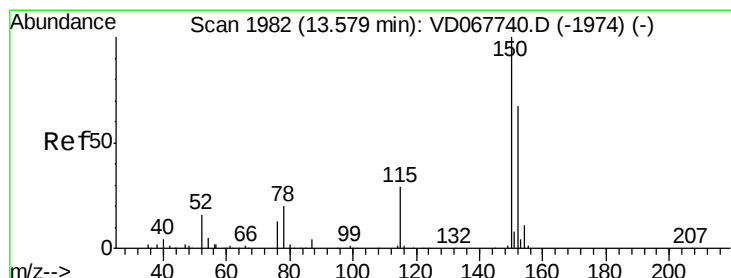
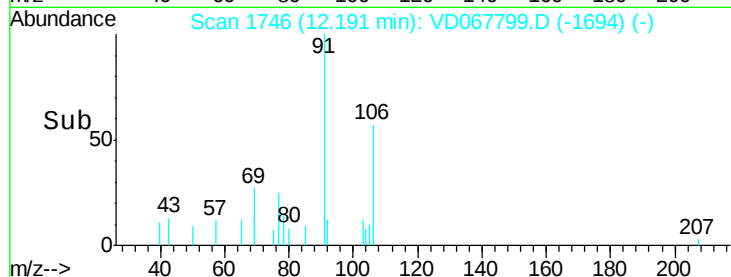
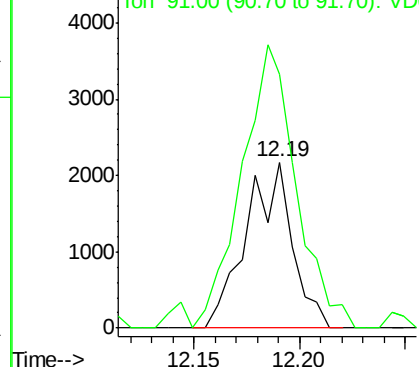
#69  
o-Xylene  
Concen: 1.090 ug/l  
RT: 12.19 min Scan# 1746  
Delta R.T. 0.01 min  
Lab File: VD067799.D  
Acq: 25 Nov 2020 20:41

Instrument :  
MSVOA\_D  
ClientSampleId :  
PHC-340EM-013

Tot Ion:106 Resp: 3281  
Ion Ratio Lower Upper  
106 100  
91 202.2 106.2 318.6

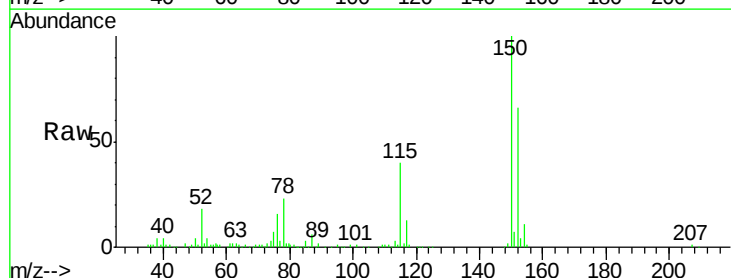


Abundance Ion 106.00 (105.70 to 106.70): V  
Ion 91.00 (90.70 to 91.70): V

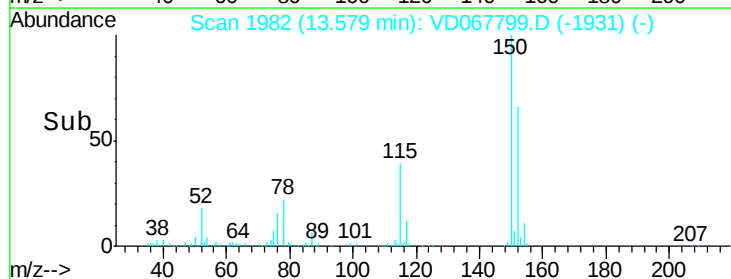
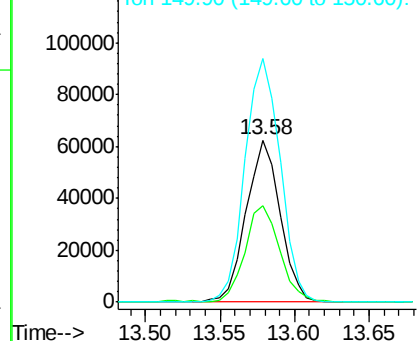


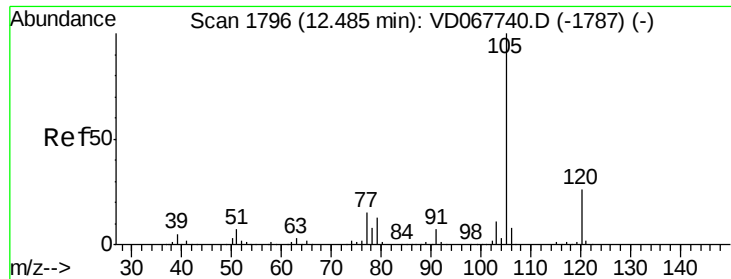
#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.58 min Scan# 1982  
Delta R.T. 0.00 min  
Lab File: VD067799.D  
Acq: 25 Nov 2020 20:41

Tgt Ion:152 Resp: 98144  
Ion Ratio Lower Upper  
152 100  
115 61.4 29.4 88.3  
150 156.3 0.0 340.6



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: 1.143 ug/l

RT: 12.49 min Scan# 1797

Delta R.T. 0.01 min

Lab File: VD067799.D

Acq: 25 Nov 2020 20:41

Instrument :

MSVOA\_D

ClientSampleId :

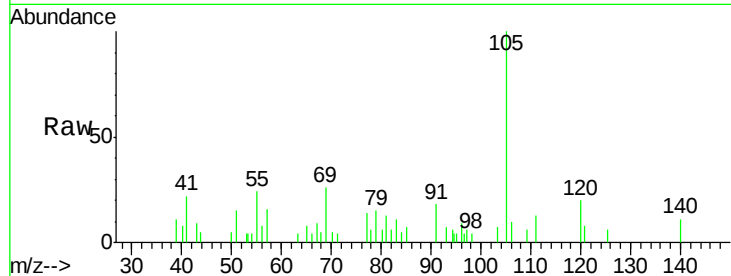
PHC-340EM-013

Tot Ion:105 Resp: 7384

Ion Ratio Lower Upper

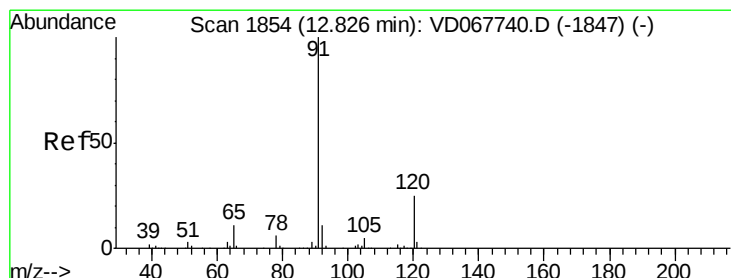
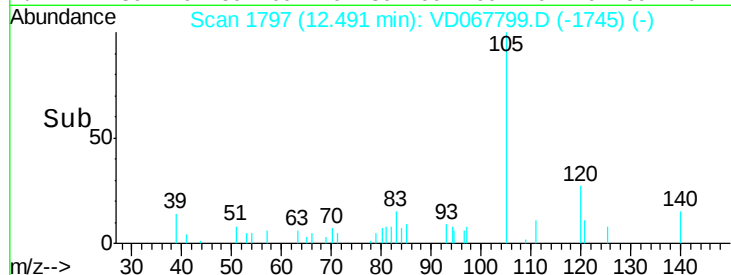
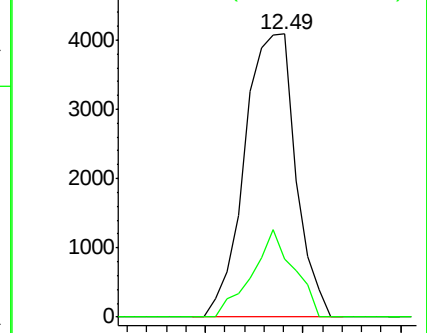
105 100

120 25.1 13.2 39.6



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#78

n-propylbenzene

Concen: 1.162 ug/l

RT: 12.82 min Scan# 1853

Delta R.T. -0.01 min

Lab File: VD067799.D

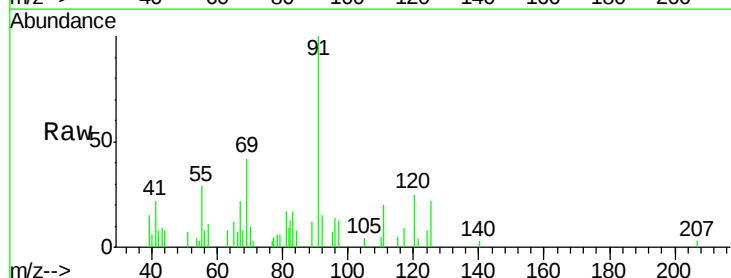
Acq: 25 Nov 2020 20:41

Tgt Ion: 91 Resp: 8350

Ion Ratio Lower Upper

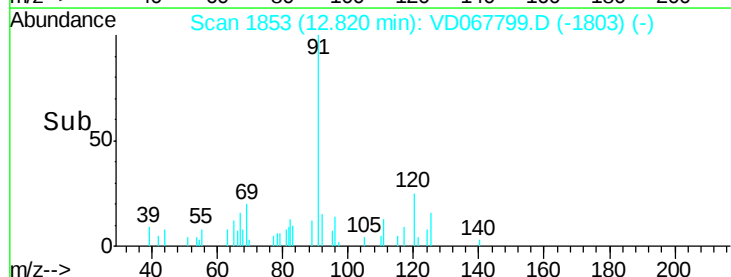
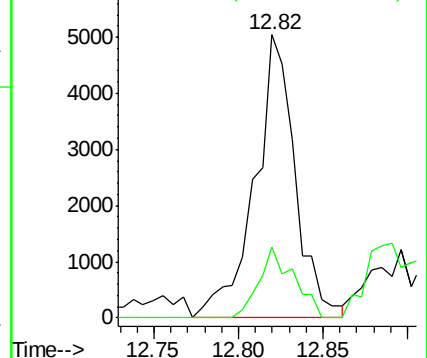
91 100

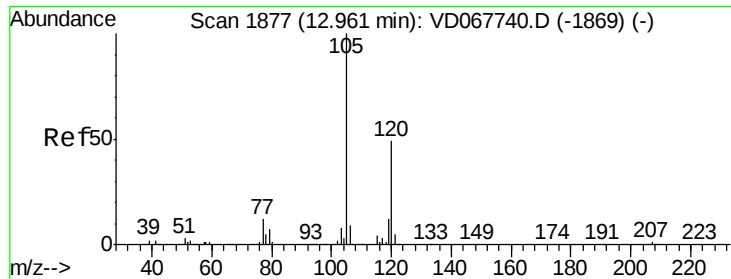
120 21.6 12.4 37.4



Abundance Ion 91.00 (90.70 to 91.70): V

Ion 120.00 (119.70 to 120.70): V

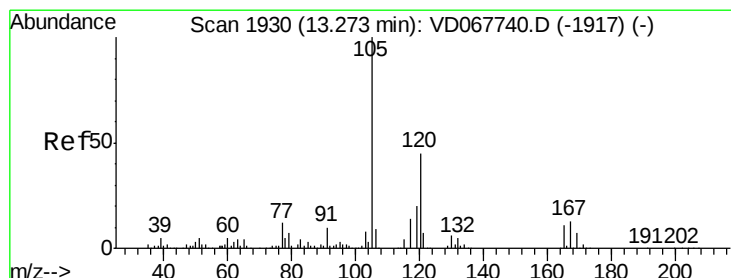
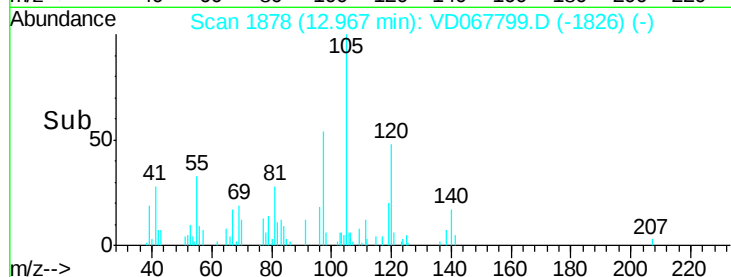
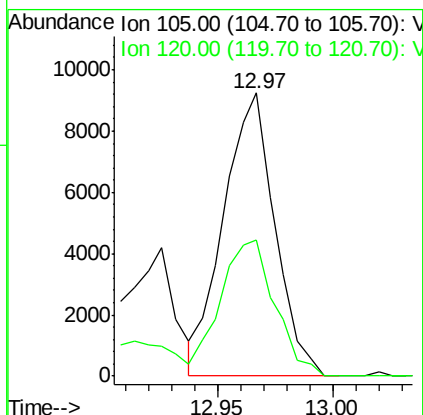
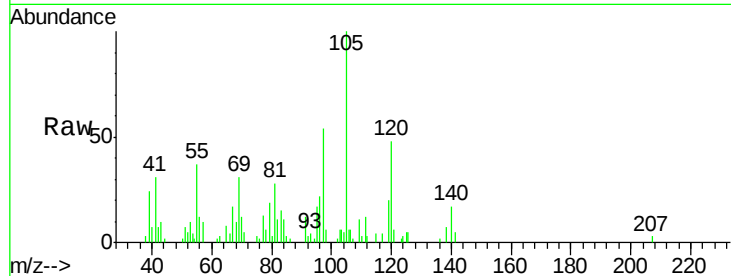




#80  
 1,3,5-Trimethylbenzene  
 Concen: 2.541 ug/l  
 RT: 12.97 min Scan# 1878  
 Delta R.T. 0.01 min  
 Lab File: VD067799.D  
 Acq: 25 Nov 2020 20:41

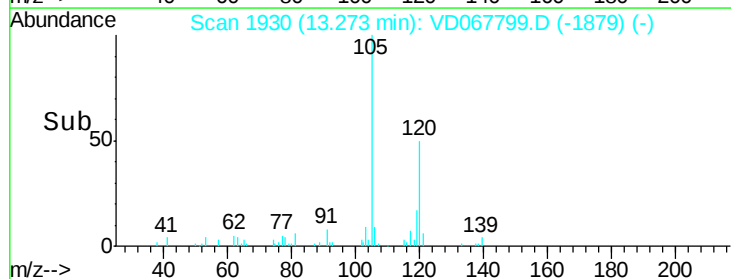
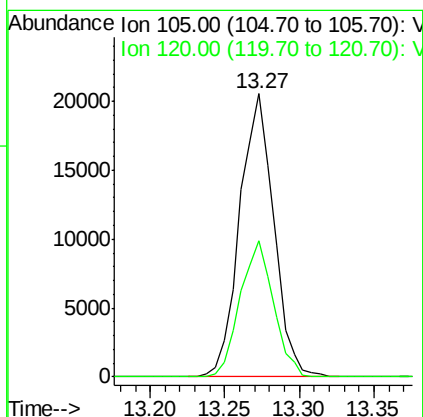
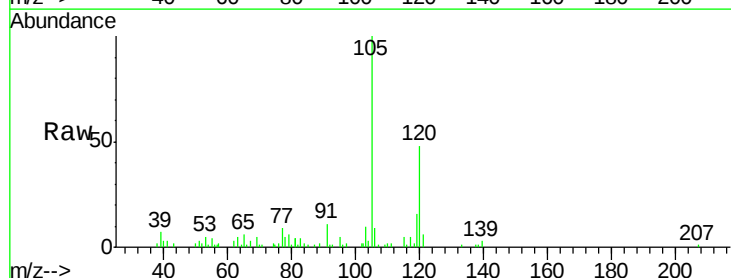
Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PHC-340EM-013

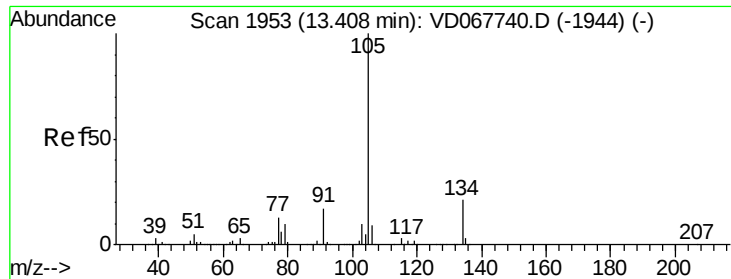
Tot Ion:105 Resp: 14272  
 Ion Ratio Lower Upper  
 105 100  
 120 51.2 23.9 71.7



#84  
 1,2,4-Trimethylbenzene  
 Concen: 5.799 ug/l  
 RT: 13.27 min Scan# 1930  
 Delta R.T. 0.00 min  
 Lab File: VD067799.D  
 Acq: 25 Nov 2020 20:41

Tgt Ion:105 Resp: 32538  
 Ion Ratio Lower Upper  
 105 100  
 120 47.2 22.6 67.7

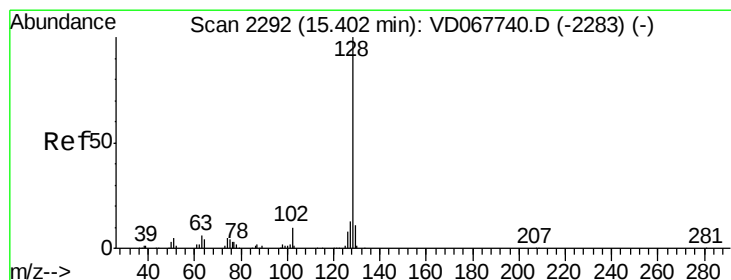
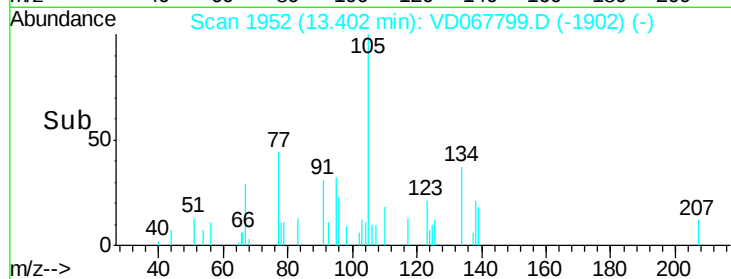
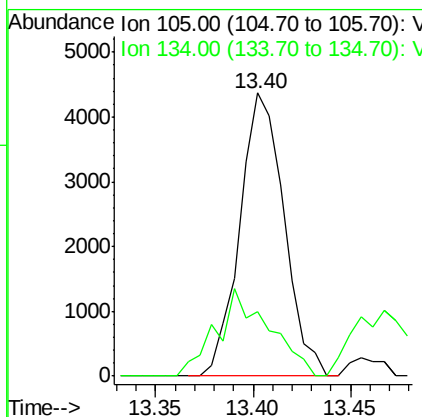
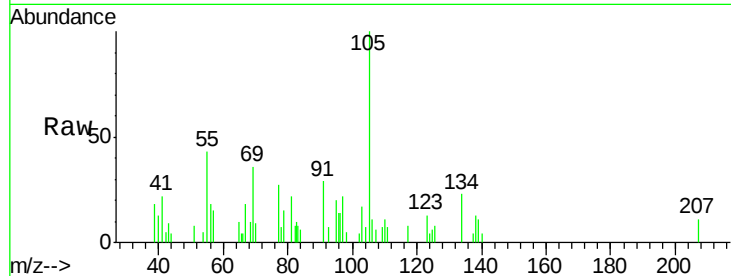




#85  
 sec-Butylbenzene  
 Concen: 1.084 ug/l  
 RT: 13.40 min Scan# 1952  
 Delta R.T. -0.01 min  
 Lab File: VD067799.D  
 Acq: 25 Nov 2020 20:41

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 PHC-340EM-013

Tot Ion:105 Resp: 6875  
 Ion Ratio Lower Upper  
 105 100  
 134 36.7 10.7 32.1#



#95  
 Naphthalene  
 Concen: 3.313 ug/l  
 RT: 15.40 min Scan# 2292  
 Delta R.T. 0.00 min  
 Lab File: VD067799.D  
 Acq: 25 Nov 2020 20:41

Tgt Ion:128 Resp: 10230  
 Ion Ratio Lower Upper  
 128 100  
 127 13.2 10.7 16.1  
 129 12.3 8.6 12.8

