

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD012521\  
 Data File : VD068175.D  
 Acq On : 25 Jan 2021 18:12  
 Operator : VA/SY  
 Sample : M1230-01  
 Misc : 5.10G/5.00ml/MSVOA\_D/SOIL  
 ALS Vial : 14 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 NWB-1501

Manual Integrations  
 APPROVED

MMDadoda  
 1/26/2021 12:57:34 PM

Quant Time: Jan 26 00:10:25 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Jan 19 13:19:08 2021  
 Response via : Initial Calibration

| Compound                    | R.T.           | QIon | Response            | Conc      | Units  | Dev(Min) |
|-----------------------------|----------------|------|---------------------|-----------|--------|----------|
| -----                       |                |      |                     |           |        |          |
| Internal Standards          |                |      |                     |           |        |          |
| 1) Pentafluorobenzene       | 7.985          | 168  | 157666              | 50.00     | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.867          | 114  | 325755              | 50.00     | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.649         | 117  | 145902              | 50.00     | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.579         | 152  | 24526               | 50.00     | ug/l   | # 0.00   |
|                             |                |      |                     |           |        |          |
| System Monitoring Compounds |                |      |                     |           |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.338          | 65   | 142428              | 94.43     | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 50 - 163 |      | Recovery = 188.86%# |           |        |          |
| 35) Dibromofluoromethane    | 7.920          | 113  | 123191              | 68.40     | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 54 - 147 |      | Recovery = 136.80%  |           |        |          |
| 50) Toluene-d8              | 10.344         | 98   | 267331              | 37.11     | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 49 - 140 |      | Recovery = 74.22%   |           |        |          |
| 62) 4-Bromofluorobenzene    | 12.632         | 95   | 52584               | 20.27     | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 25 - 144 |      | Recovery = 40.54%   |           |        |          |
|                             |                |      |                     |           |        |          |
| Target Compounds            |                |      |                     |           | Qvalue |          |
| 16) Acetone                 | 4.138          | 43   | 37417973m           | 138942.46 | ug/l   |          |
| 17) Carbon Disulfide        | 4.415          | 76   | 77959               | 14.01     | ug/l   | 97       |
| 25) 2-Butanone              | 7.214          | 43   | 28632               | 70.61     | ug/l   | 90       |
| 39) Methylcyclohexane       | 9.361          | 83   | 2133490             | 496.77    | ug/l   | 97       |
| 40) Benzene                 | 8.355          | 78   | 82969               | 9.03      | ug/l   | 98       |
| 43) Isopropyl Acetate       | 8.450          | 43   | 1685691             | 696.09    | ug/l   | # 46     |
| 48) Methyl methacrylate     | 9.461          | 41   | 49878               | 41.38     | ug/l   | # 89     |
| 51) 4-Methyl-2-Pentanone    | 10.238         | 43   | 73167               | 65.00     | ug/l   | 98       |
| 52) Toluene                 | 10.397         | 92   | 30507022m           | 5097.68   | ug/l   |          |
| 67) Ethyl Benzene           | 11.749         | 91   | 681729              | 118.77    | ug/l   | 98       |
| 68) m/p-Xylenes             | 11.849         | 106  | 1017123             | 469.37    | ug/l   | 99       |
| 69) o-Xylene                | 12.185         | 106  | 579018              | 287.71    | ug/l   | 96       |
| 73) Isopropylbenzene        | 12.479         | 105  | 166008              | 81.34     | ug/l   | 98       |
| 78) n-propylbenzene         | 12.820         | 91   | 547460              | 226.74    | ug/l   | 99       |
| 80) 1,3,5-Trimethylbenzene  | 12.961         | 105  | 591337              | 347.91    | ug/l   | 99       |
| 84) 1,2,4-Trimethylbenzene  | 13.267         | 105  | 2050189             | 1215.24   | ug/l   | 98       |
| 85) sec-Butylbenzene        | 13.402         | 105  | 212619              | 105.54    | ug/l   | 88       |
| 86) p-Isopropyltoluene      | 13.514         | 119  | 113863              | 62.14     | ug/l   | 98       |
| 89) n-Butylbenzene          | 13.843         | 91   | 306946              | 174.55    | ug/l   | # 70     |
| 95) Naphthalene             | 15.402         | 128  | 83971               | 90.66     | ug/l   | 98       |
| -----                       |                |      |                     |           |        |          |

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

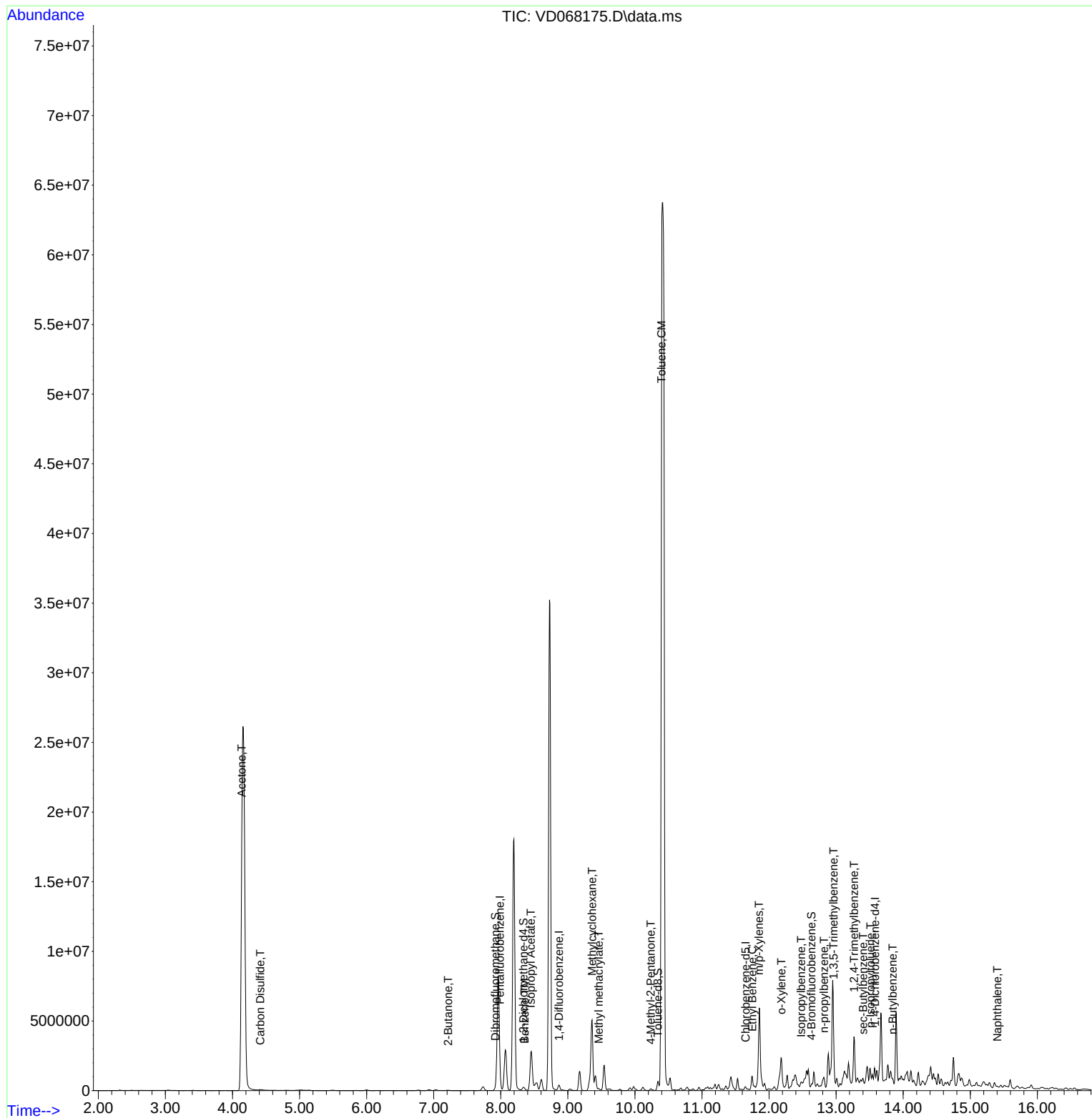
Data Path : Z:\voasrv\HPCHEM1\MSVOA\_D\Data\VD012521\  
Data File : VD068175.D  
Acq On : 25 Jan 2021 18:12  
Operator : VA/SY  
Sample : M1230-01  
Misc : 5.10G/5.00ml/MSVOA\_D/SOIL  
ALS Vial : 14 Sample Multiplier: 1

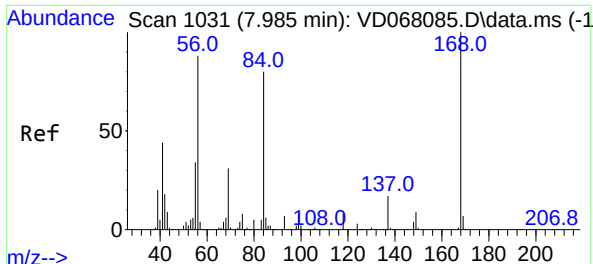
Instrument :  
MSVOA\_D  
ClientSampleId :  
NWB-1501

Manual Integrations  
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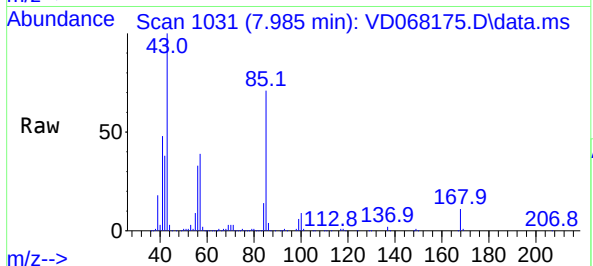
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1/26/2021 12:57:34 PM

Quant Time: Jan 26 00:10:25 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_D\Method\82D011921S.M  
Quant Title : SW846 8260  
QLast Update : Tue Jan 19 13:19:08 2021  
Response via : Initial Calibration

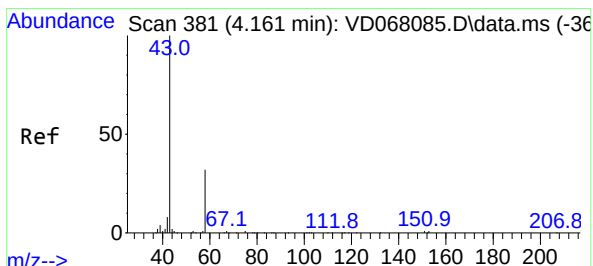
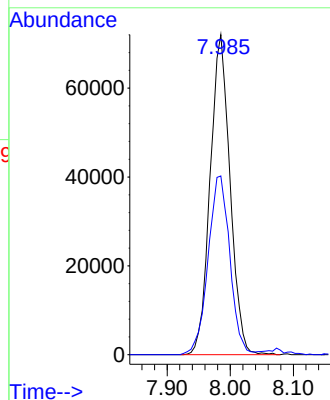
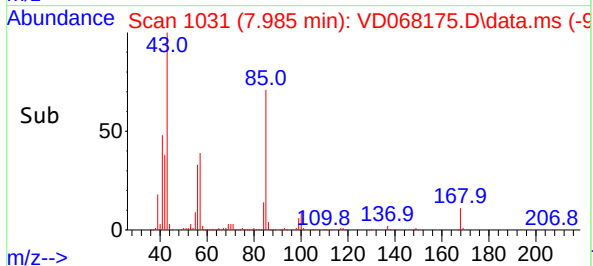




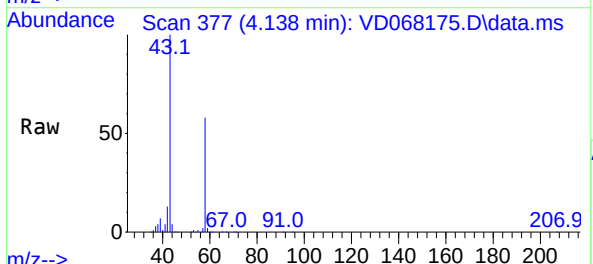
#1  
Pentafluorobenzene  
Concen: 50.00 ug/l  
RT: 7.985 min Scan# 1031  
Delta R.T. -0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12



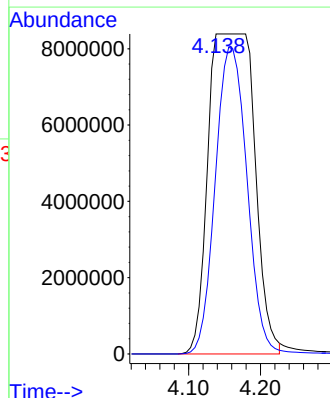
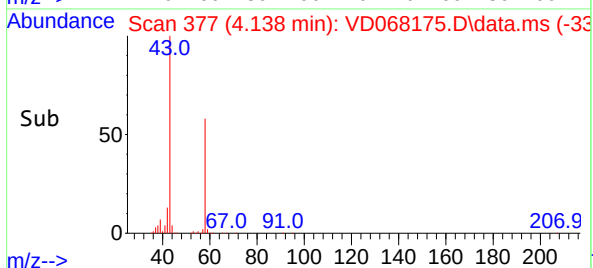
Tgt Ion:168 Resp: 157666  
Ion Ratio Lower Upper  
168 100  
99 55.8 43.5 65.3



#16  
Acetone  
Concen: 138942.46 ug/l m  
RT: 4.138 min Scan# 377  
Delta R.T. -0.023 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12



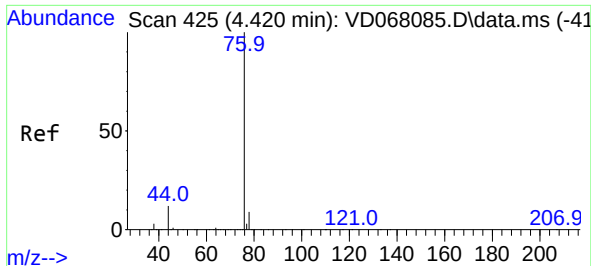
Tgt Ion: 43 Resp:37417973  
Ion Ratio Lower Upper  
43 100  
58 58.0 24.2 36.4#



Instrument :  
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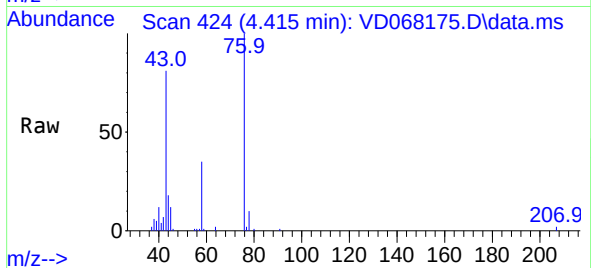
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#17  
Carbon Disulfide  
Concen: 14.01 ug/l  
RT: 4.415 min Scan# 424  
Delta R.T. -0.006 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12

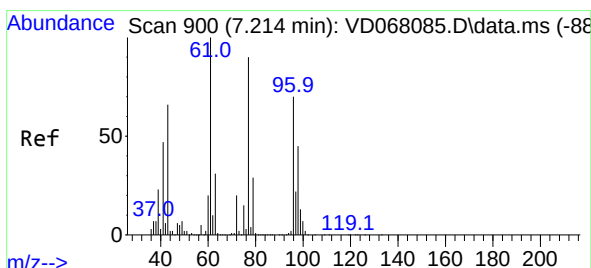
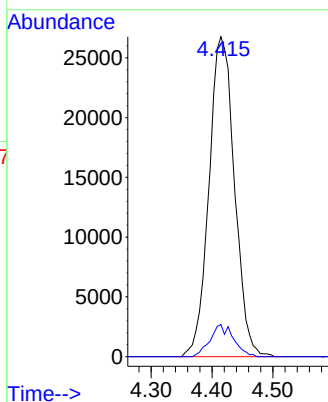
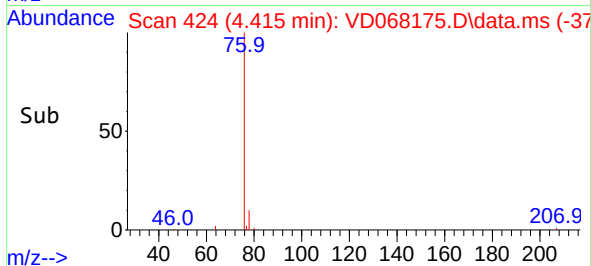
Instrument :  
MSVOA\_D  
ClientSampleId :  
NWB-1501



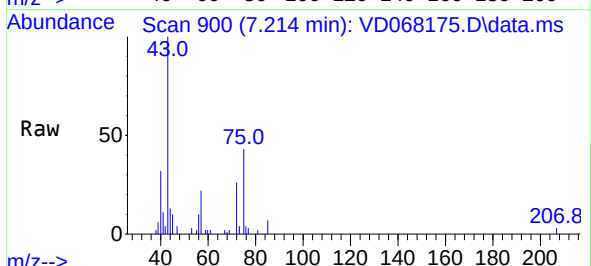
Tgt Ion: 76 Resp: 77959  
Ion Ratio Lower Upper  
76 100  
78 10.0 7.3 10.9

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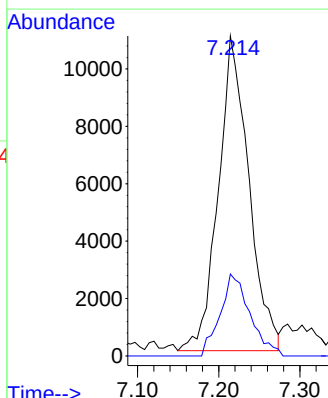
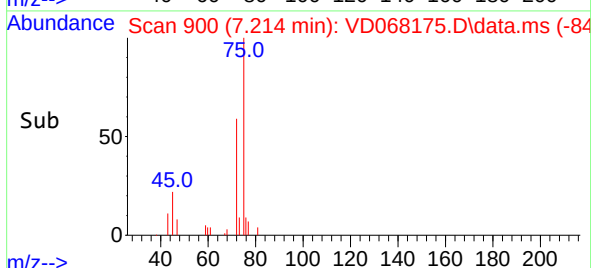
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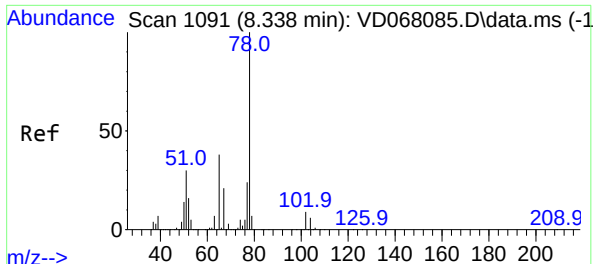


#25  
2-Butanone  
Concen: 70.61 ug/l  
RT: 7.214 min Scan# 900  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12



Tgt Ion: 43 Resp: 28632  
Ion Ratio Lower Upper  
43 100  
72 26.0 25.1 37.7





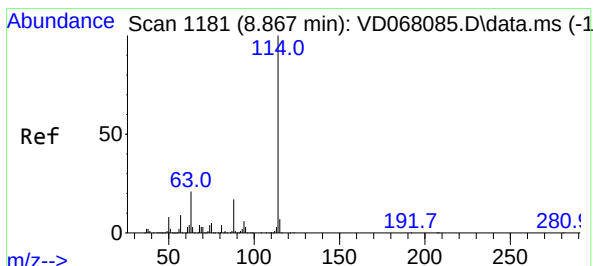
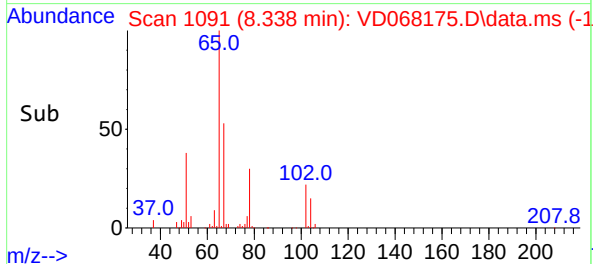
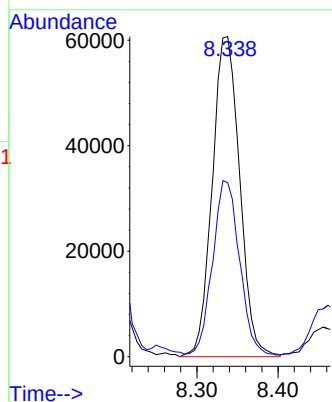
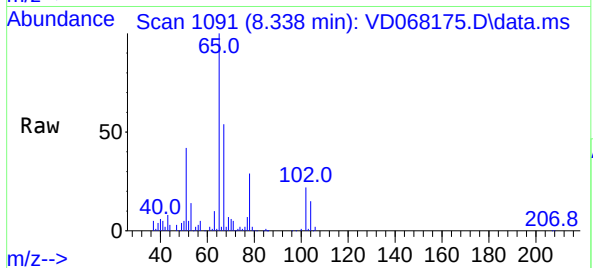
#33  
1,2-Dichloroethane-d4  
Concen: 94.43 ug/l  
RT: 8.338 min Scan# 1091  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12

Tgt Ion: 65 Resp: 142428  
Ion Ratio Lower Upper  
65 100  
67 53.1 0.0 105.0

Instrument :  
MSVOA\_D  
ClientSampled :  
NWB-1501

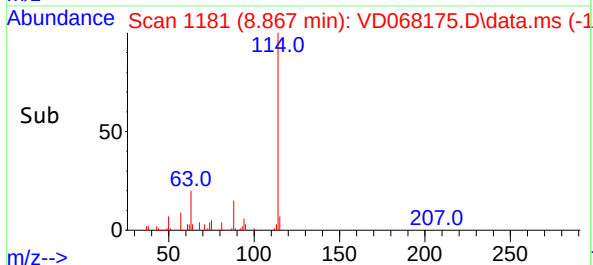
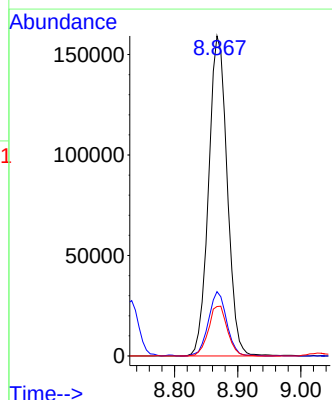
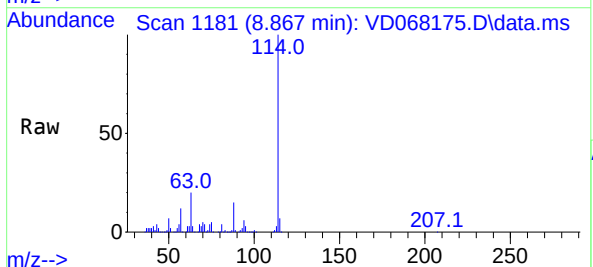
Manual Integrations  
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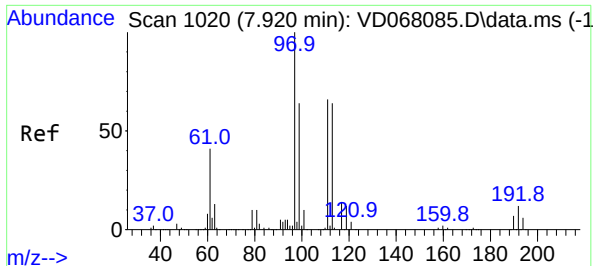
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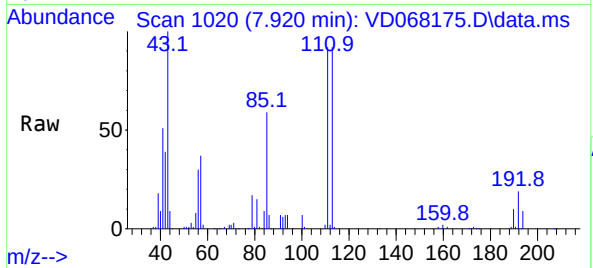
#34  
1,4-Difluorobenzene  
Concen: 50.00 ug/l  
RT: 8.867 min Scan# 1181  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12

Tgt Ion: 114 Resp: 325755  
Ion Ratio Lower Upper  
114 100  
63 20.1 0.0 34.8  
88 15.5 0.0 31.6

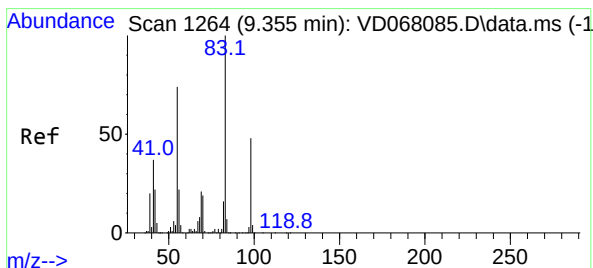
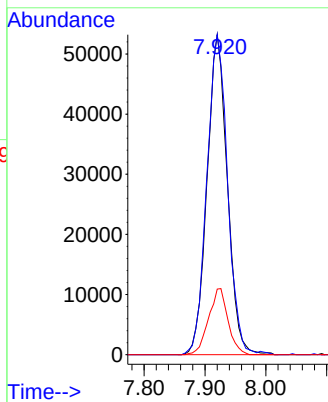
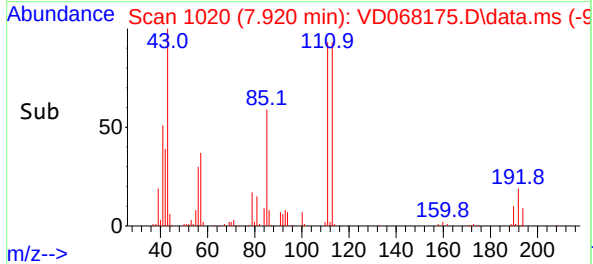




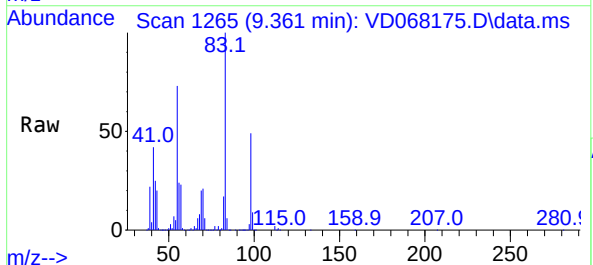
#35  
Dibromofluoromethane  
Concen: 68.40 ug/l  
RT: 7.920 min Scan# 1020  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12



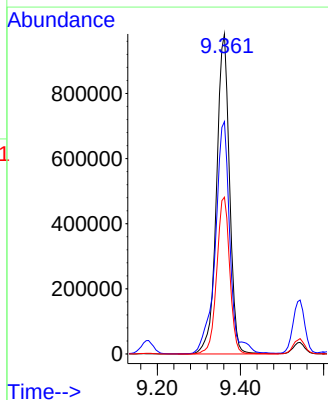
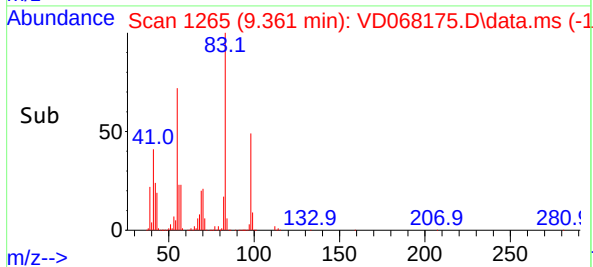
Tgt Ion:113 Resp: 123191  
Ion Ratio Lower Upper  
113 100  
111 101.8 81.4 122.0  
192 19.8 16.1 24.1



#39  
Methylcyclohexane  
Concen: 496.77 ug/l  
RT: 9.361 min Scan# 1265  
Delta R.T. 0.006 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12



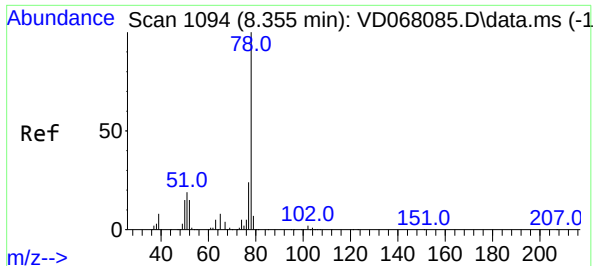
Tgt Ion: 83 Resp: 2133490  
Ion Ratio Lower Upper  
83 100  
55 72.6 55.2 82.8  
98 49.0 39.1 58.7



Instrument :  
MSVOA\_D  
ClientSampleId :  
NWB-1501

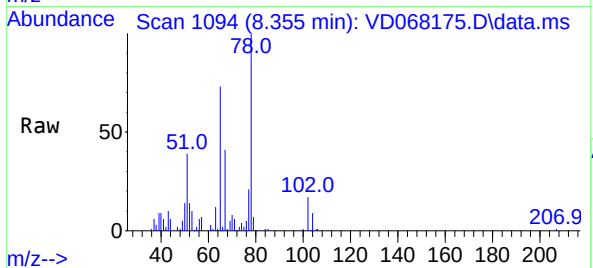
Manual Integrations  
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1/26/2021 12:57:34 PM



#40  
Benzene  
Concen: 9.03 ug/l  
RT: 8.355 min Scan# 1094  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12

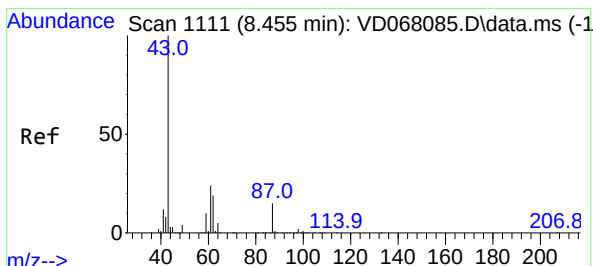
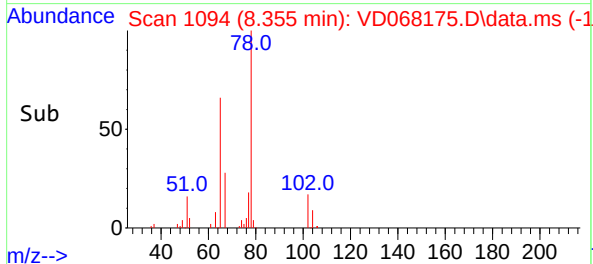
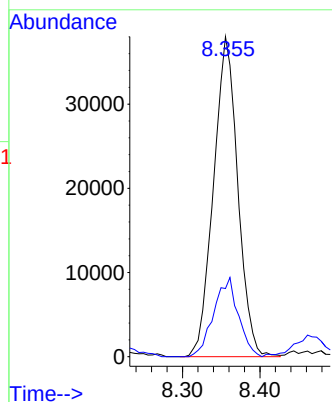
Instrument :  
MSVOA\_D  
ClientSampleId :  
NWB-1501



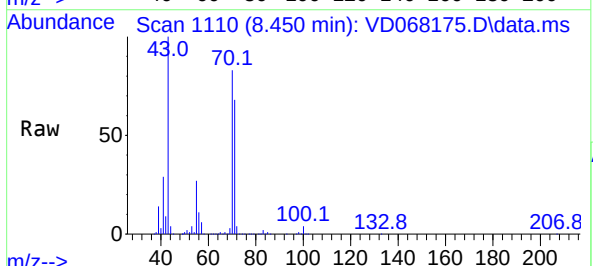
Tgt Ion: 78 Resp: 82969  
Ion Ratio Lower Upper  
78 100  
77 21.3 17.8 26.6

Manual Integrations  
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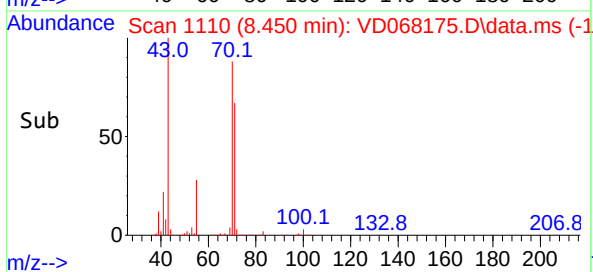
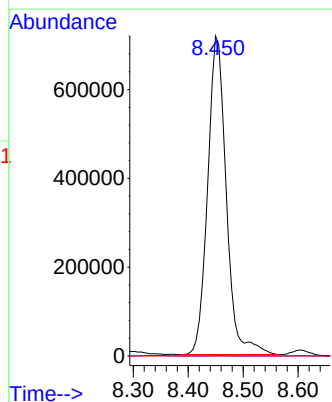
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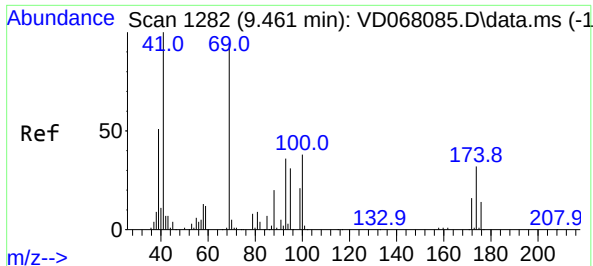


#43  
Isopropyl Acetate  
Concen: 696.09 ug/l  
RT: 8.450 min Scan# 1110  
Delta R.T. -0.006 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12



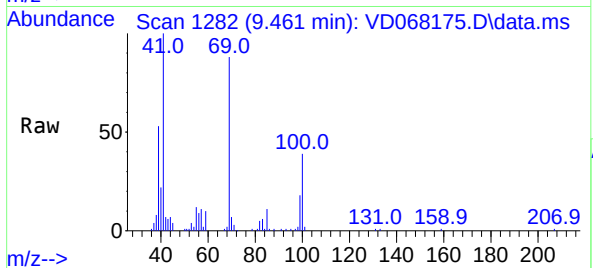
Tgt Ion: 43 Resp: 1685691  
Ion Ratio Lower Upper  
43 100  
61 0.1 28.7 43.1#  
87 0.0 13.9 20.9#





#48  
Methyl methacrylate  
Concen: 41.38 ug/l  
RT: 9.461 min Scan# 1282  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12

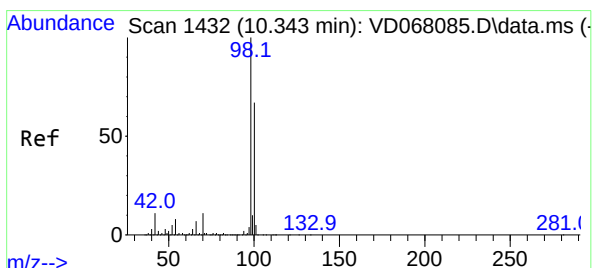
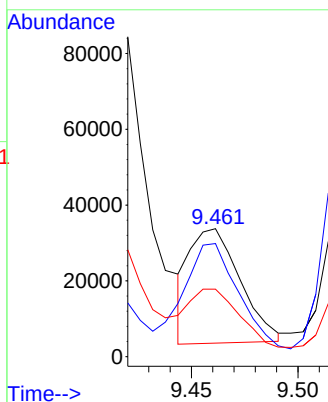
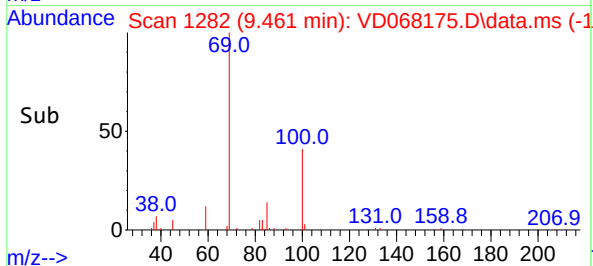
Instrument :  
MSVOA\_D  
ClientSampleId :  
NWB-1501



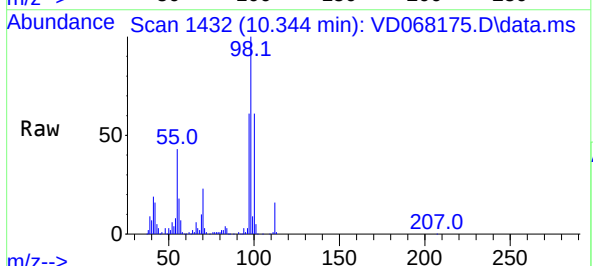
Tgt Ion: 41 Resp: 49878  
Ion Ratio Lower Upper  
41 100  
69 99.3 77.1 115.7  
39 69.2 41.5 62.3#

Manual Integrations  
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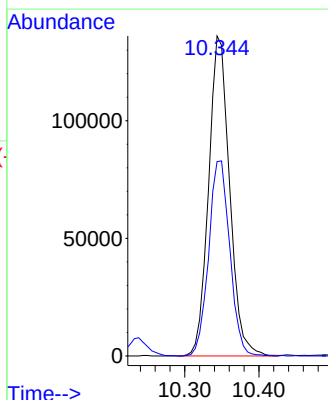
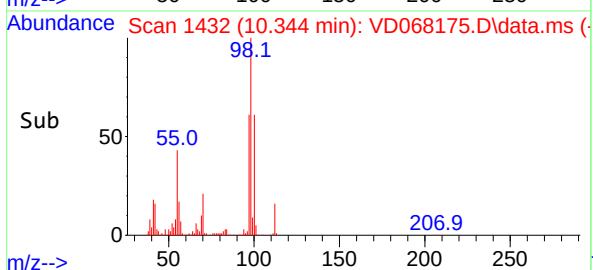
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1/26/2021 12:57:34 PM



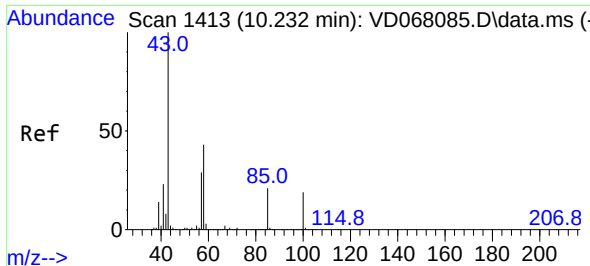
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Toluene-d8  
Concen: 37.11 ug/l  
RT: 10.344 min Scan# 1432  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12



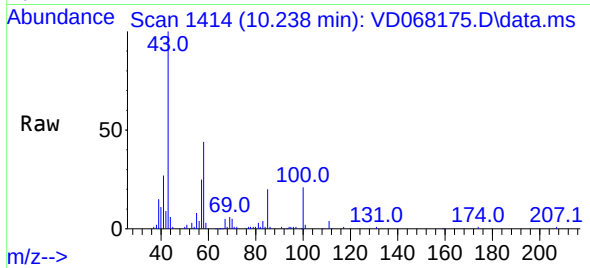
Tgt Ion: 98 Resp: 267331  
Ion Ratio Lower Upper  
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100 61.4 53.0 79.4



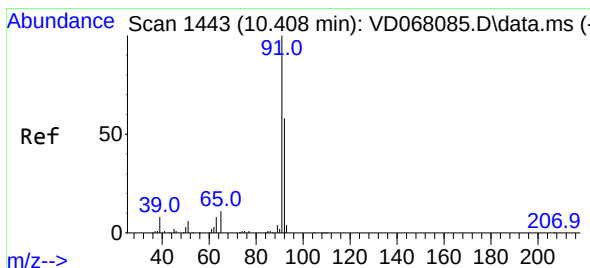
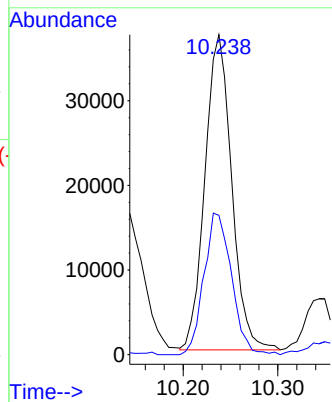
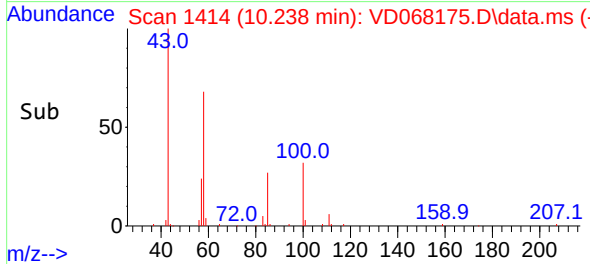




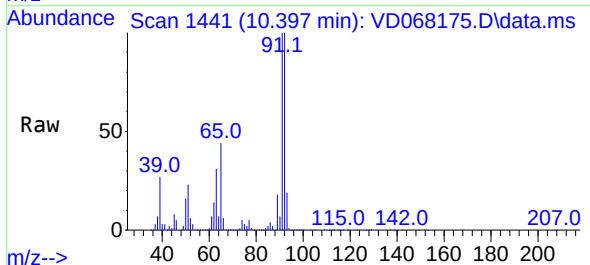
#51  
4-Methyl-2-Pentanone  
Concen: 65.00 ug/l  
RT: 10.238 min Scan# 1414  
Delta R.T. 0.006 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12



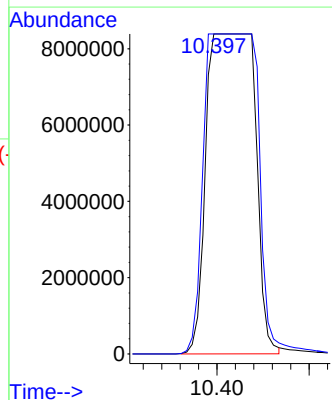
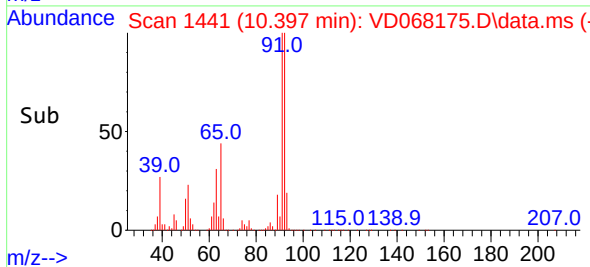
Tgt Ion: 43 Resp: 73167  
Ion Ratio Lower Upper  
43 100  
58 46.2 36.1 54.1



#52  
Toluene  
Concen: 5097.68 ug/l m  
RT: 10.397 min Scan# 1441  
Delta R.T. -0.011 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12



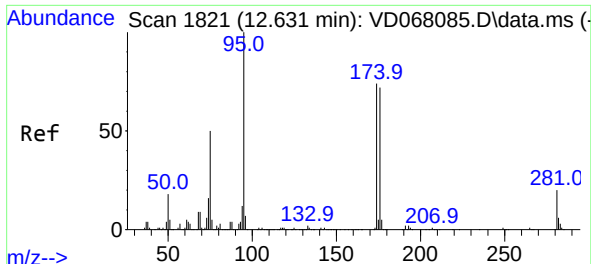
Tgt Ion: 92 Resp: 30507022  
Ion Ratio Lower Upper  
92 100  
91 0.0 134.1 201.1#



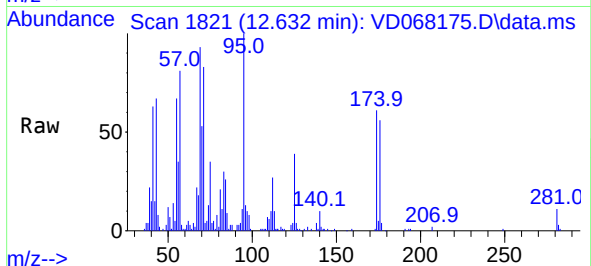
Instrument :  
MSVOA\_D  
ClientSampleId :  
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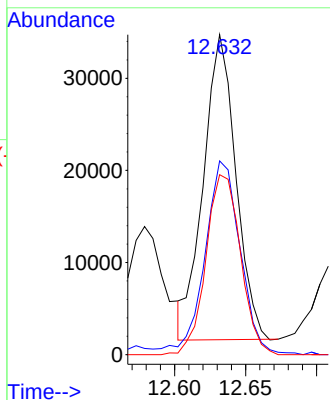
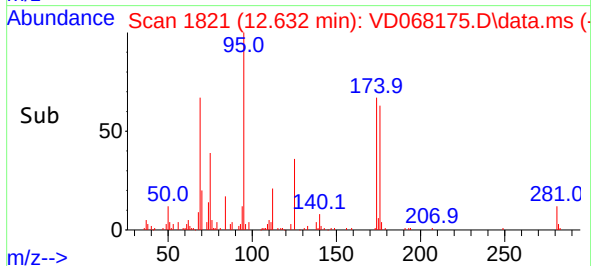
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#62  
4-Bromofluorobenzene  
Concen: 20.27 ug/l  
RT: 12.632 min Scan# 1821  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12



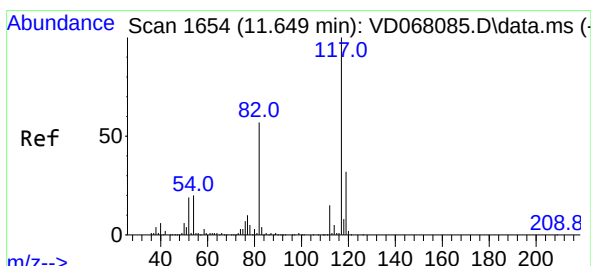
Tgt Ion: 95 Resp: 52584  
Ion Ratio Lower Upper  
95 100  
174 69.5 0.0 172.4  
176 62.8 0.0 168.4



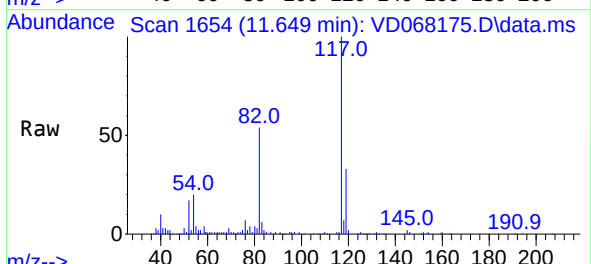
Instrument :  
MSVOA\_D  
ClientSampleId :  
NWB-1501

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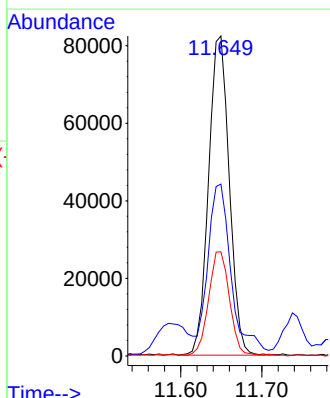
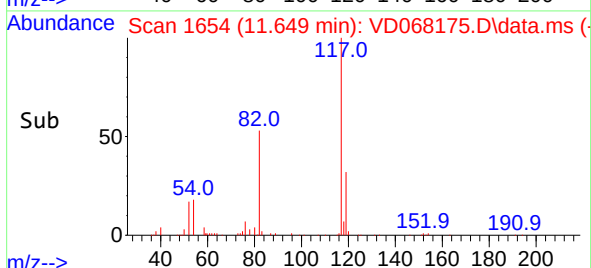
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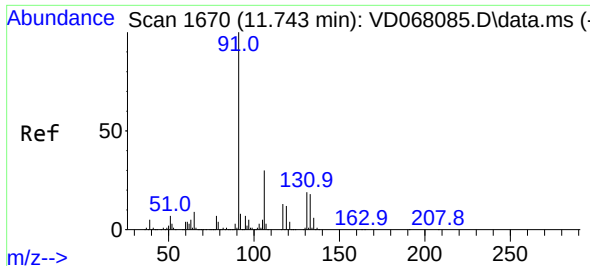


#63  
Chlorobenzene-d5  
Concen: 50.00 ug/l  
RT: 11.649 min Scan# 1654  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12



Tgt Ion: 117 Resp: 145902  
Ion Ratio Lower Upper  
117 100  
82 49.4 41.4 62.0  
119 32.4 26.1 39.1





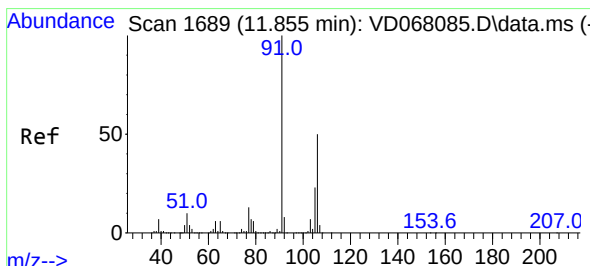
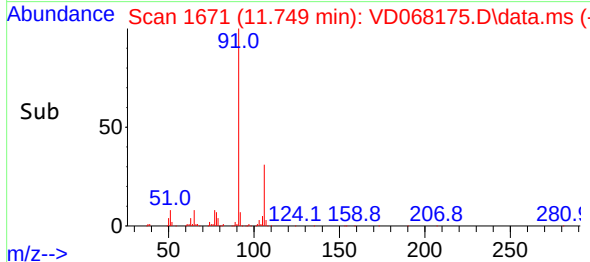
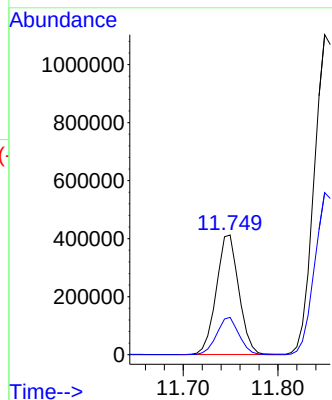
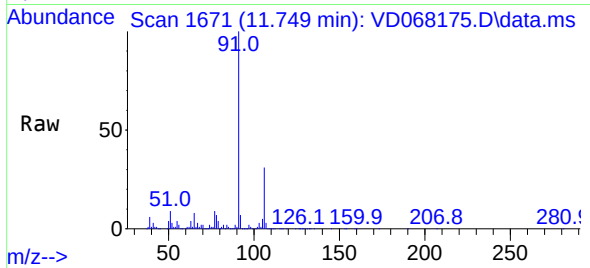
#67  
Ethyl Benzene  
Concen: 118.77 ug/l  
RT: 11.749 min Scan# 1671  
Delta R.T. 0.006 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12

Tgt Ion: 91 Resp: 681729  
Ion Ratio Lower Upper  
91 100  
106 31.3 25.9 38.9

Instrument :  
MSVOA\_D  
ClientSampleId :  
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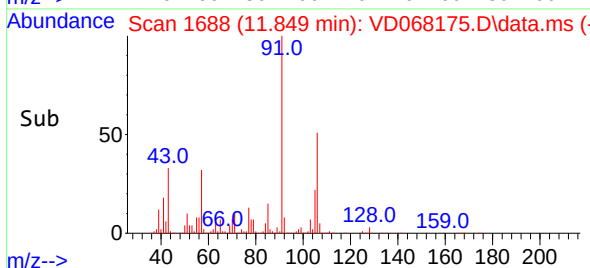
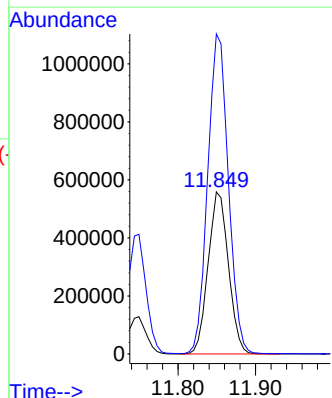
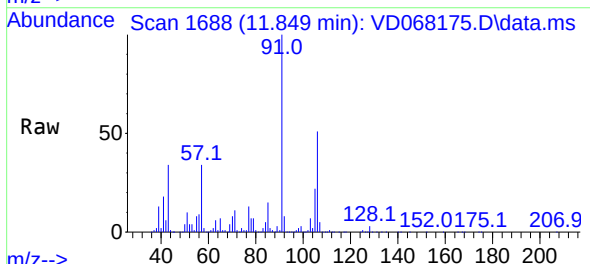
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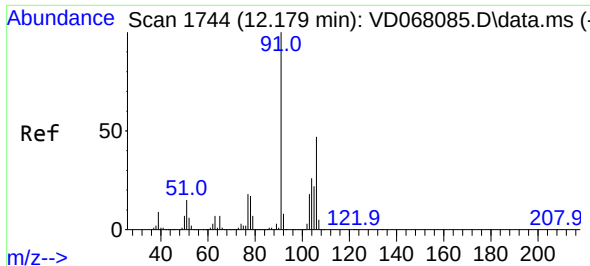
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#68  
m/p-Xylenes  
Concen: 469.37 ug/l  
RT: 11.849 min Scan# 1688  
Delta R.T. -0.006 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12

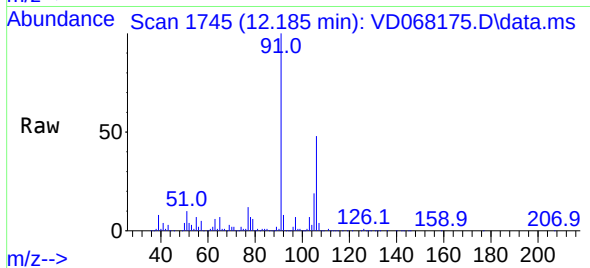
Tgt Ion:106 Resp: 1017123  
Ion Ratio Lower Upper  
106 100  
91 200.0 159.1 238.7





#69  
o-Xylene  
Concen: 287.71 ug/l  
RT: 12.185 min Scan# 1745  
Delta R.T. 0.006 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12

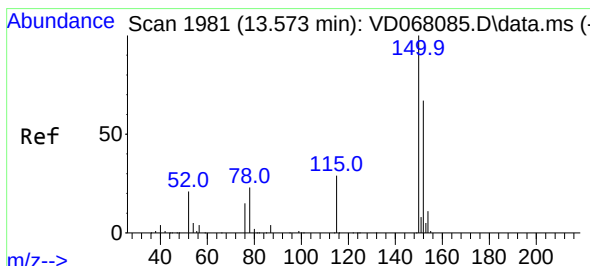
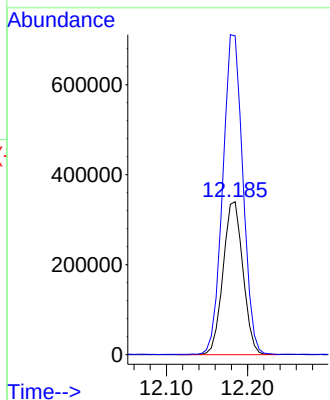
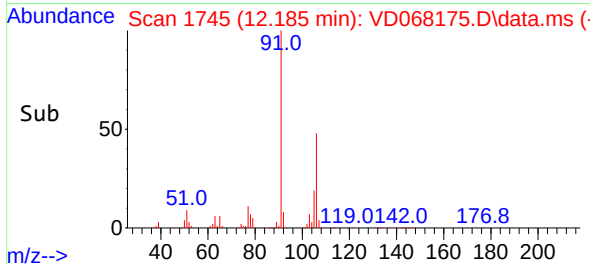
Instrument :  
MSVOA\_D  
ClientSampleId :  
NWB-1501



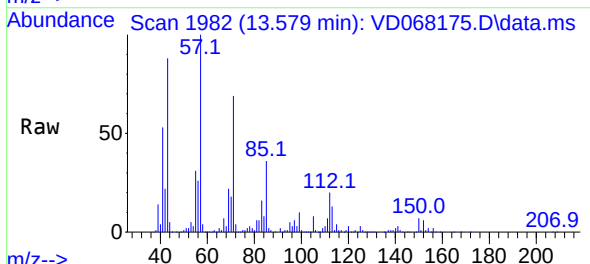
Tgt Ion:106 Resp: 579018  
Ion Ratio Lower Upper  
106 100  
91 211.3 108.7 325.9

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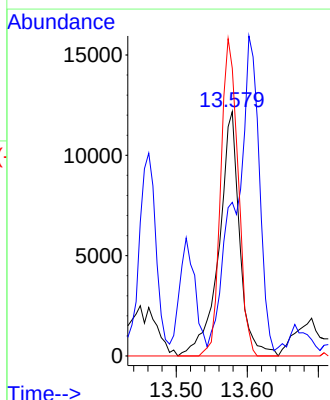
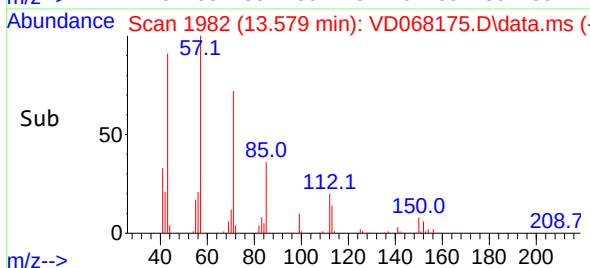
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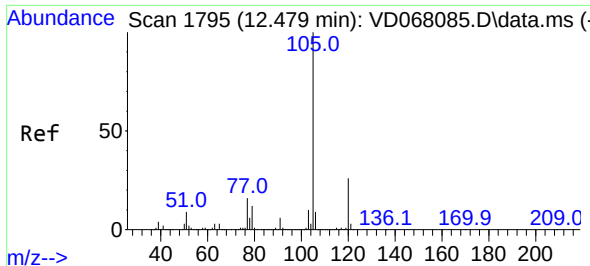


#72  
1,4-Dichlorobenzene-d4  
Concen: 50.00 ug/l  
RT: 13.579 min Scan# 1982  
Delta R.T. 0.006 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12



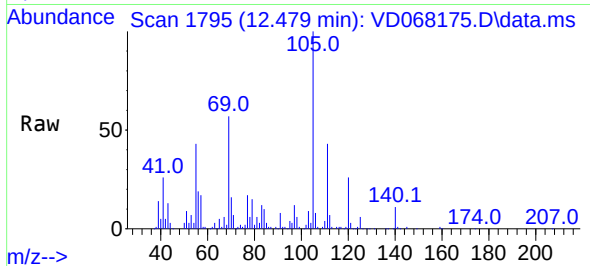
Tgt Ion:152 Resp: 24526  
Ion Ratio Lower Upper  
152 100  
115 0.0 28.9 86.8#  
150 109.3 0.0 344.4





#73  
Isopropylbenzene  
Concen: 81.34 ug/l  
RT: 12.479 min Scan# 1795  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12

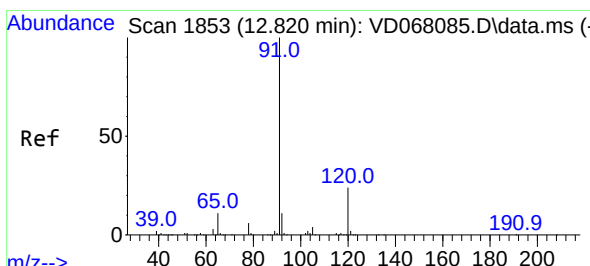
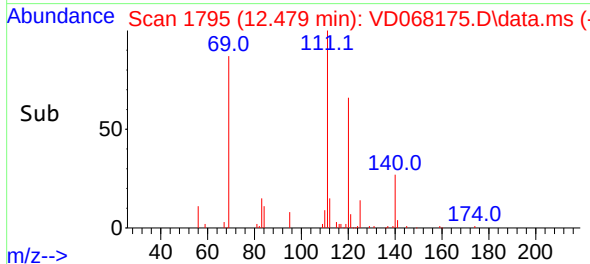
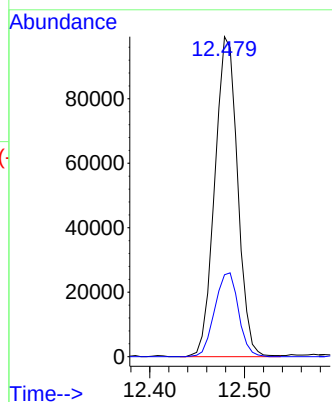
Instrument :  
MSVOA\_D  
ClientSampleId :  
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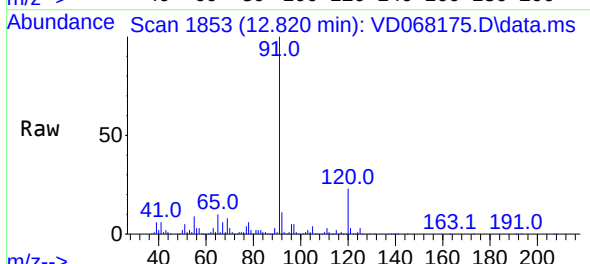
Tgt Ion: 105 Resp: 166008  
Ion Ratio Lower Upper  
105 100  
120 27.2 13.2 39.6

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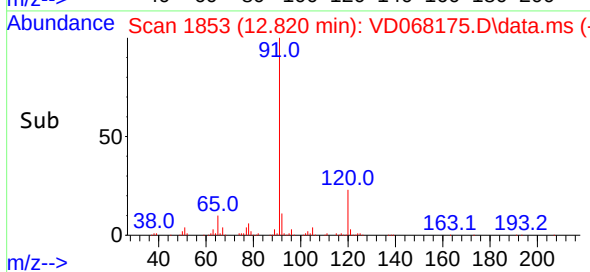
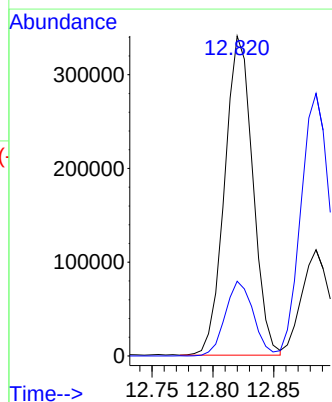
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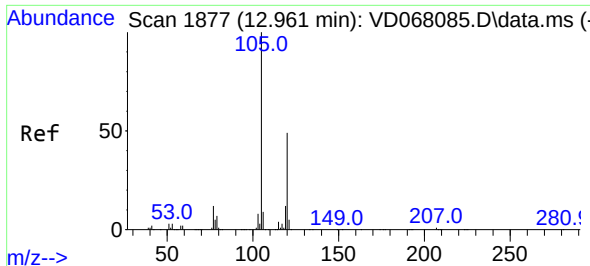


#78  
n-propylbenzene  
Concen: 226.74 ug/l  
RT: 12.820 min Scan# 1853  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12



Tgt Ion: 91 Resp: 547460  
Ion Ratio Lower Upper  
91 100  
120 23.3 12.0 36.0





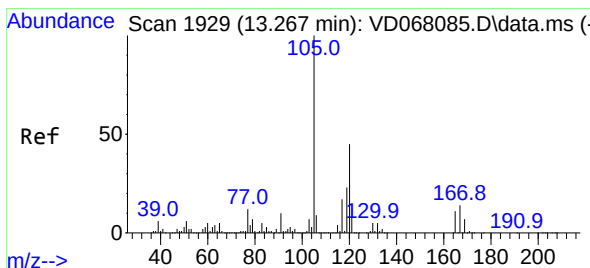
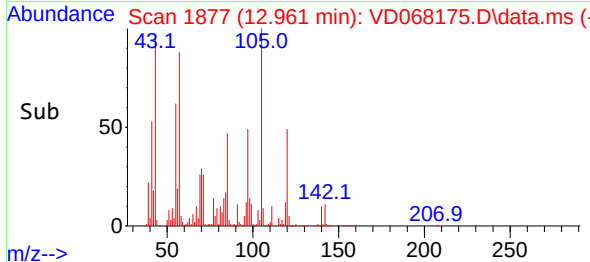
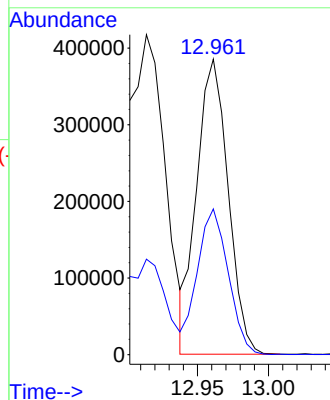
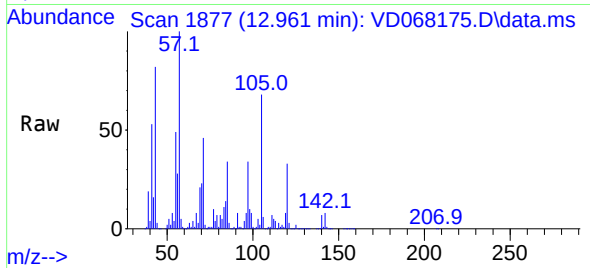
#80  
1,3,5-Trimethylbenzene  
Concen: 347.91 ug/l  
RT: 12.961 min Scan# 1877  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12

Tgt Ion:105 Resp: 591337  
Ion Ratio Lower Upper  
105 100  
120 48.9 24.2 72.6

Instrument :  
MSVOA\_D  
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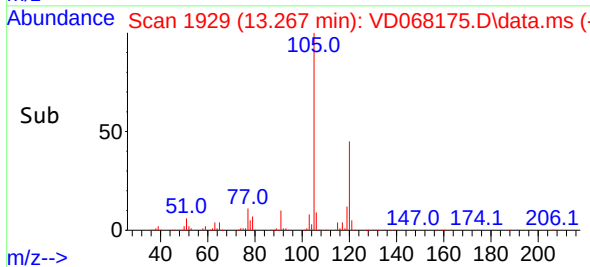
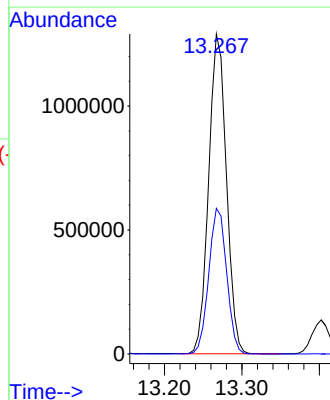
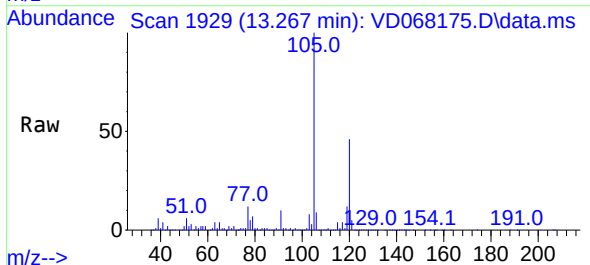
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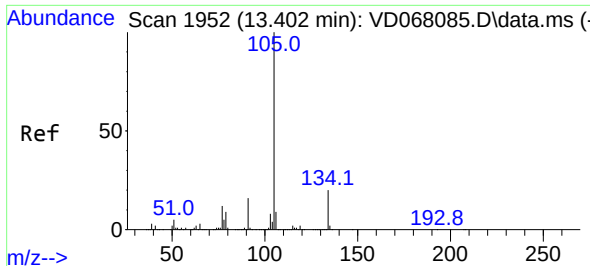
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#84  
1,2,4-Trimethylbenzene  
Concen: 1215.24 ug/l  
RT: 13.267 min Scan# 1929  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12

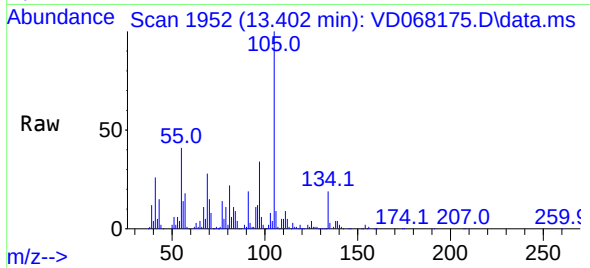
Tgt Ion:105 Resp: 2050189  
Ion Ratio Lower Upper  
105 100  
120 46.0 22.4 67.0





#85  
 sec-Butylbenzene  
 Concen: 105.54 ug/l  
 RT: 13.402 min Scan# 1952  
 Delta R.T. 0.000 min  
 Lab File: VD068175.D  
 Acq: 25 Jan 2021 18:12

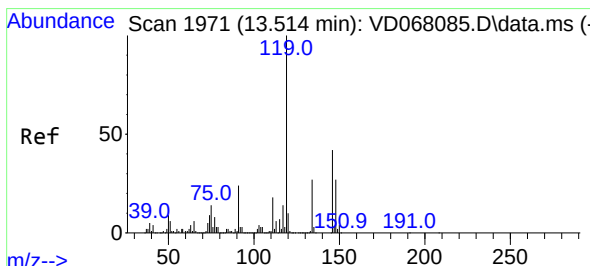
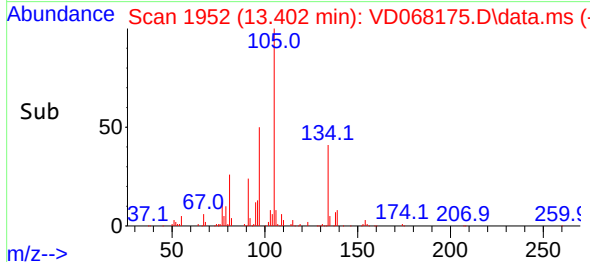
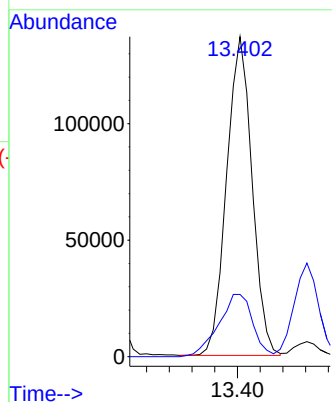
Instrument :  
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 ClientSampleId :  
 NWB-1501



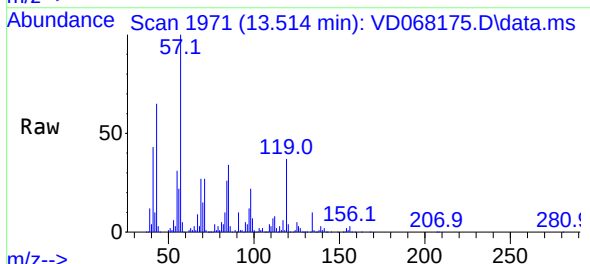
Tgt Ion:105 Resp: 212619  
 Ion Ratio Lower Upper  
 105 100  
 134 26.1 10.3 30.9

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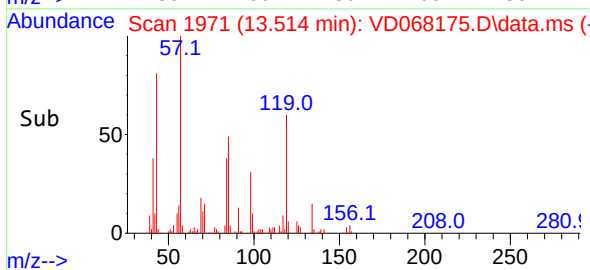
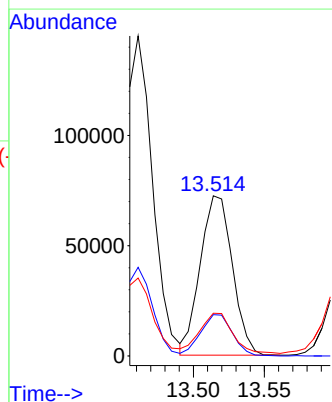
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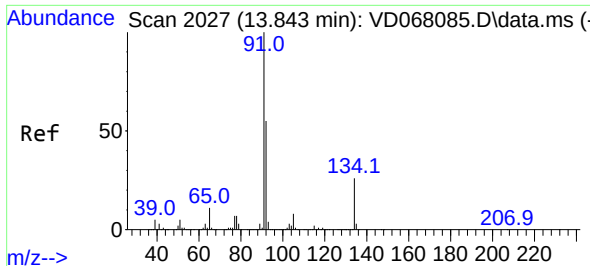


#86  
 p-Isopropyltoluene  
 Concen: 62.14 ug/l  
 RT: 13.514 min Scan# 1971  
 Delta R.T. 0.000 min  
 Lab File: VD068175.D  
 Acq: 25 Jan 2021 18:12



Tgt Ion:119 Resp: 113863  
 Ion Ratio Lower Upper  
 119 100  
 134 25.7 12.9 38.7  
 91 25.3 11.7 35.0





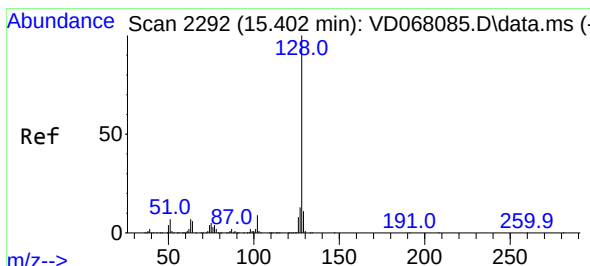
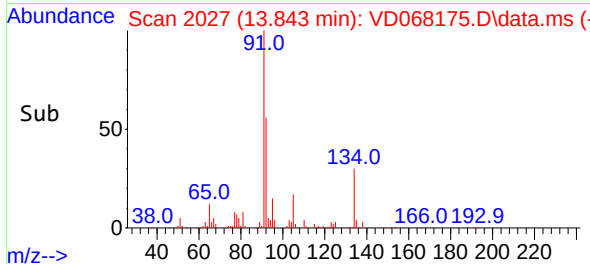
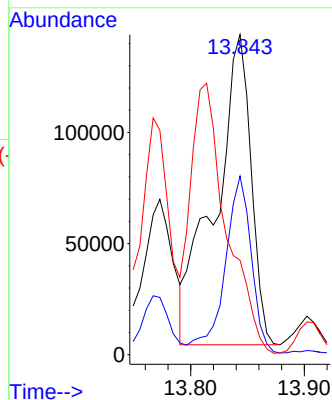
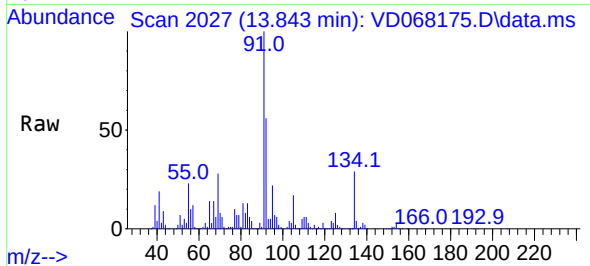
#89  
n-Butylbenzene  
Concen: 174.55 ug/l  
RT: 13.843 min Scan# 2027  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12

Tgt Ion: 91 Resp: 306946  
Ion Ratio Lower Upper  
91 100  
92 41.8 27.2 81.6  
134 0.0 13.9 41.7#

Instrument :  
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ClientSampleId :  
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#95  
Naphthalene  
Concen: 90.66 ug/l  
RT: 15.402 min Scan# 2292  
Delta R.T. 0.000 min  
Lab File: VD068175.D  
Acq: 25 Jan 2021 18:12

Tgt Ion: 128 Resp: 83971  
Ion Ratio Lower Upper  
128 100  
127 11.8 10.2 15.2  
129 10.0 8.8 13.2

