

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060521\  
 Data File : VN067227.D  
 Acq On : 5 Jun 2021 14:04  
 Operator : JC/MD  
 Sample : M2589-30  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 FOUNDATION-EXCAVATION-SAMP

Quant Time: Jun 07 01:14:39 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060421W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Jun 04 19:00:20 2021  
 Response via : Initial Calibration

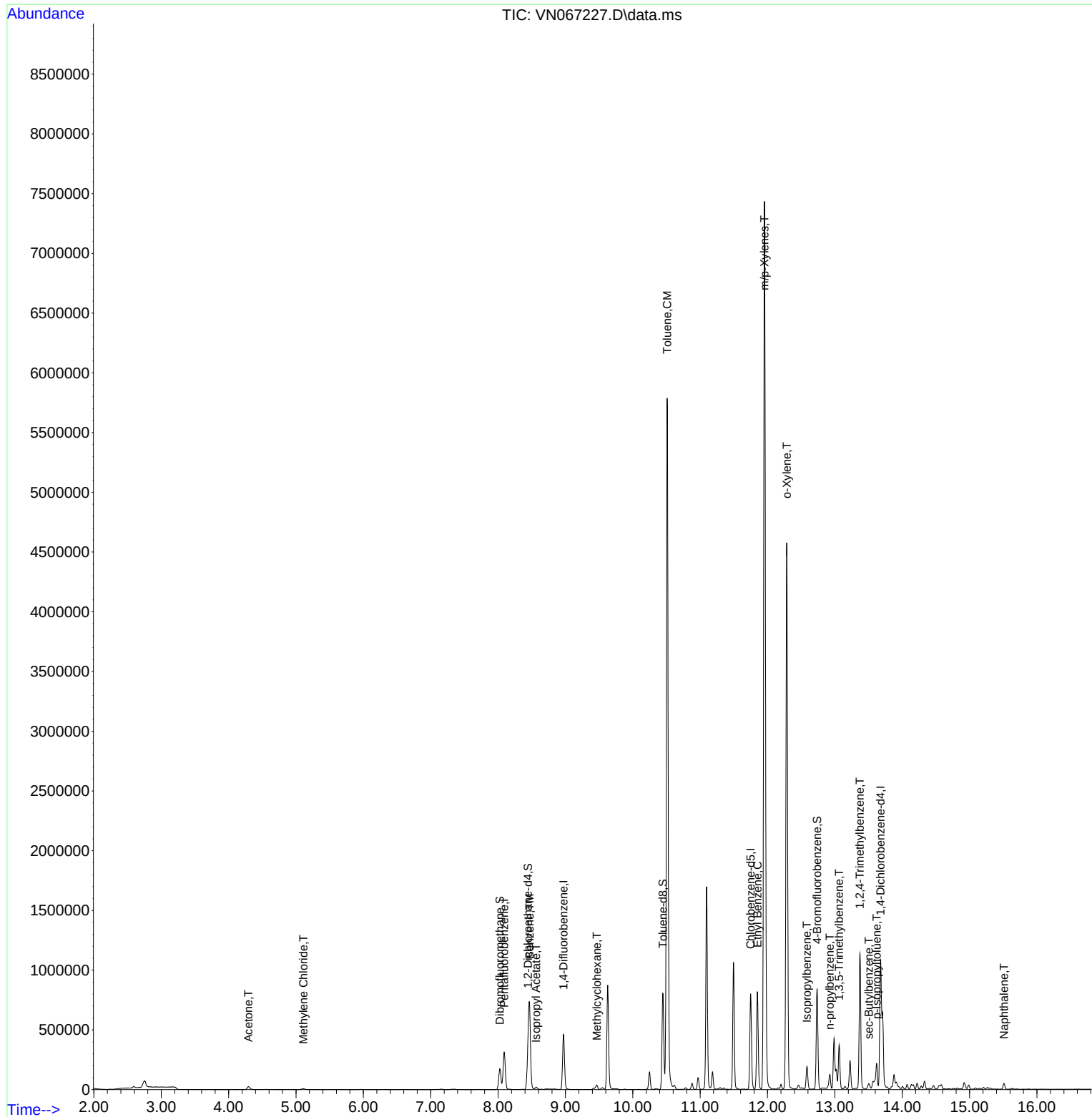
| Compound                    | R.T.           | QIon | Response   | Conc      | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|-----------|--------|----------|
| -----                       |                |      |            |           |        |          |
| Internal Standards          |                |      |            |           |        |          |
| 1) Pentafluorobenzene       | 8.091          | 168  | 246400     | 50.000    | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.971          | 114  | 420974     | 50.000    | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.749         | 117  | 463460     | 50.000    | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.678         | 152  | 297062     | 50.000    | ug/l   | 0.00     |
|                             |                |      |            |           |        |          |
| System Monitoring Compounds |                |      |            |           |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.445          | 65   | 153596     | 45.730    | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 61 - 141 |      | Recovery = | 91.460%   |        |          |
| 35) Dibromofluoromethane    | 8.027          | 113  | 124295     | 47.627    | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 69 - 133 |      | Recovery = | 95.260%   |        |          |
| 50) Toluene-d8              | 10.446         | 98   | 564171     | 53.080    | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 65 - 126 |      | Recovery = | 106.160%  |        |          |
| 62) 4-Bromofluorobenzene    | 12.736         | 95   | 295025     | 72.070    | ug/l   | 0.00     |
| Spiked Amount 50.000        | Range 58 - 135 |      | Recovery = | 144.140%# |        |          |
|                             |                |      |            |           |        |          |
| Target Compounds            |                |      |            |           | Qvalue |          |
| 16) Acetone                 | 4.293          | 43   | 45877      | 39.585    | ug/l   | 94       |
| 20) Methylene Chloride      | 5.109          | 84   | 6358       | 2.179     | ug/l   | 88       |
| 39) Methylcyclohexane       | 9.467          | 83   | 17374      | 3.945     | ug/l   | 95       |
| 40) Benzene                 | 8.467          | 78   | 704127     | 58.364    | ug/l   | 99       |
| 43) Isopropyl Acetate       | 8.566          | 43   | 17626      | 2.473     | ug/l # | 83       |
| 52) Toluene                 | 10.510         | 92   | 2442349    | 306.926   | ug/l   | 100      |
| 67) Ethyl Benzene           | 11.851         | 91   | 608616     | 33.484    | ug/l   | 97       |
| 68) m/p-Xylenes             | 11.956         | 106  | 2401291    | 336.600   | ug/l   | 96       |
| 69) o-Xylene                | 12.286         | 106  | 1307765    | 187.572   | ug/l   | 96       |
| 73) Isopropylbenzene        | 12.583         | 105  | 97695      | 4.322     | ug/l   | 99       |
| 78) n-propylbenzene         | 12.924         | 91   | 104835     | 3.980     | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene  | 13.063         | 105  | 200095     | 10.224    | ug/l   | 100      |
| 84) 1,2,4-Trimethylbenzene  | 13.372         | 105  | 660579     | 33.935    | ug/l   | 97       |
| 85) sec-Butylbenzene        | 13.503         | 105  | 25532      | 1.098     | ug/l   | 82       |
| 86) p-Isopropyltoluene      | 13.621         | 119  | 124886     | 6.068     | ug/l   | 95       |
| 95) Naphthalene             | 15.512         | 128  | 45341      | 7.554     | ug/l   | 98       |
| -----                       |                |      |            |           |        |          |

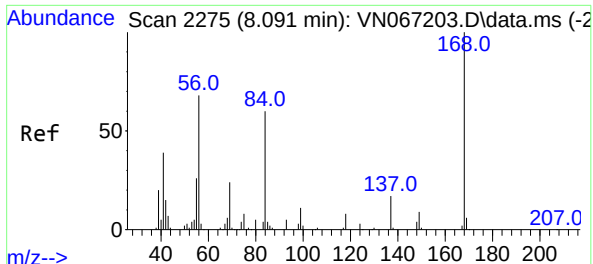
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN060521\  
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FOUNDATION-EXCAVATION-SAMP

Quant Time: Jun 07 01:14:39 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N060421W.M  
Quant Title : SW846 8260  
QLast Update : Fri Jun 04 19:00:20 2021  
Response via : Initial Calibration

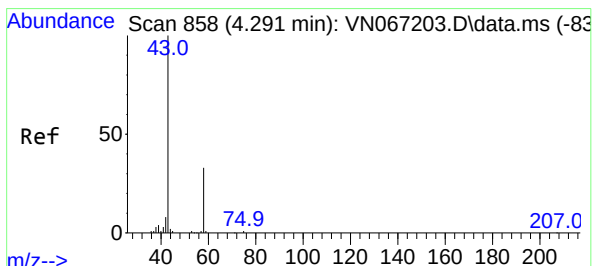
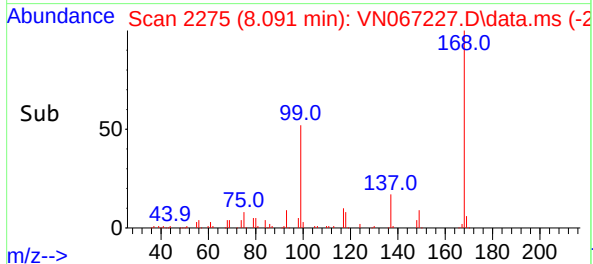
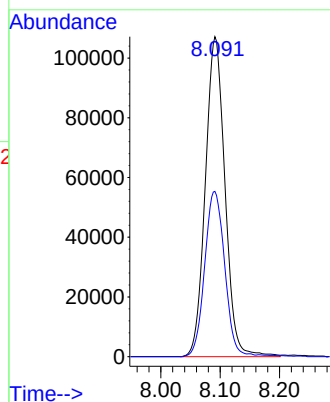
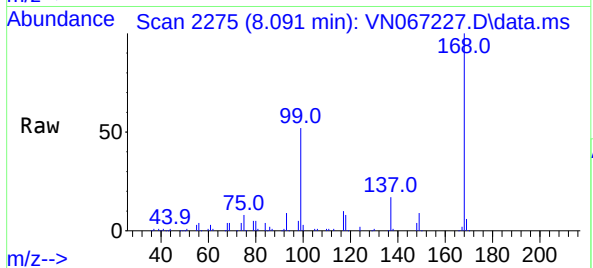




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.091 min Scan# 2275  
Delta R.T. 0.000 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

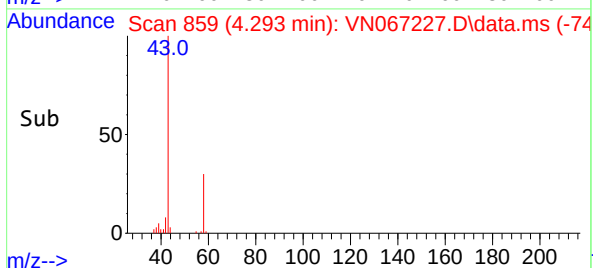
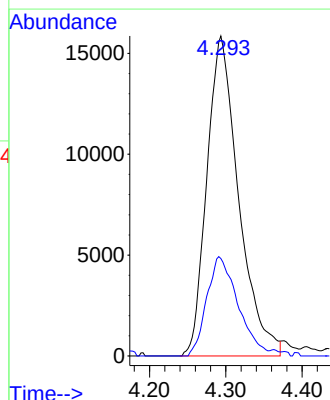
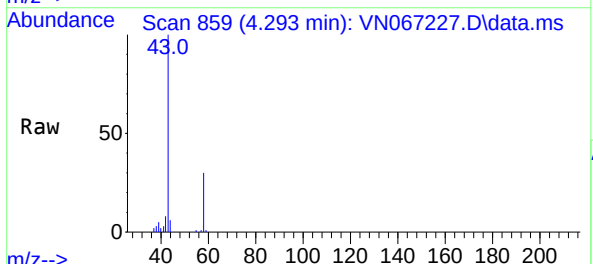
Instrument :  
MSVOA\_N  
ClientSampleId :  
FOUNDATION-EXCAVATION-SAMP

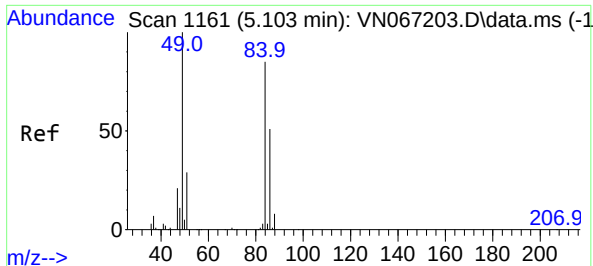
Tgt Ion:168 Resp: 246400  
Ion Ratio Lower Upper  
168 100  
99 51.7 38.5 57.7



#16  
Acetone  
Concen: 39.585 ug/l  
RT: 4.293 min Scan# 859  
Delta R.T. 0.002 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

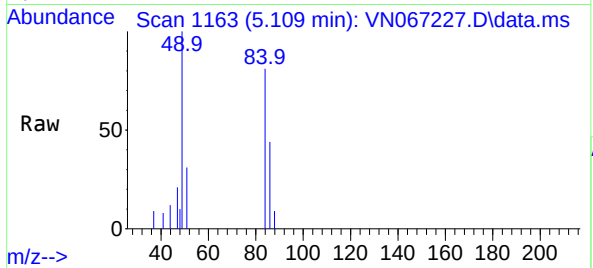
Tgt Ion: 43 Resp: 45877  
Ion Ratio Lower Upper  
43 100  
58 30.5 27.2 40.8





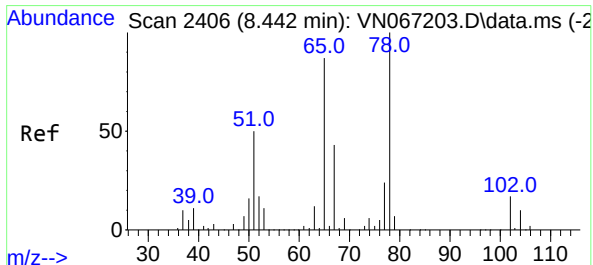
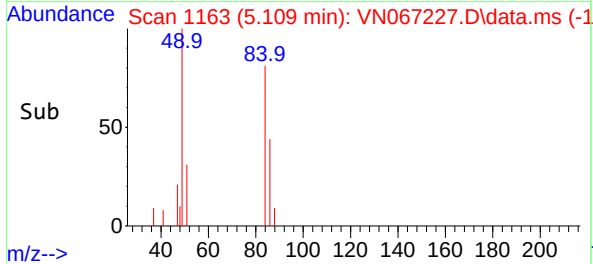
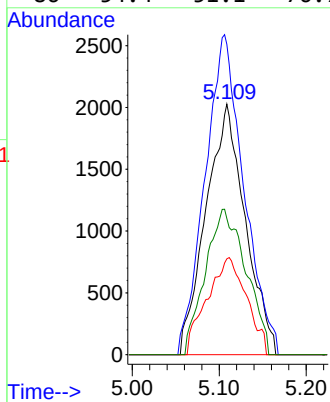
#20  
Methylene Chloride  
Concen: 2.179 ug/l  
RT: 5.109 min Scan# 1163  
Delta R.T. 0.005 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

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Tgt Ion: 84 Resp: 6358

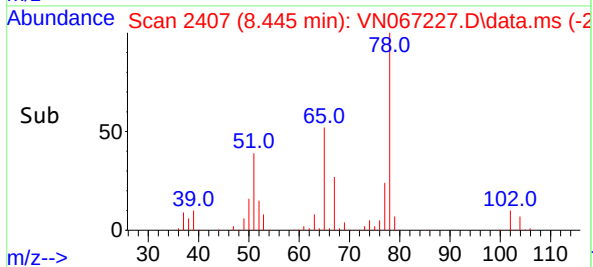
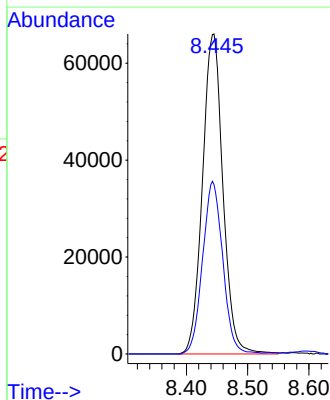
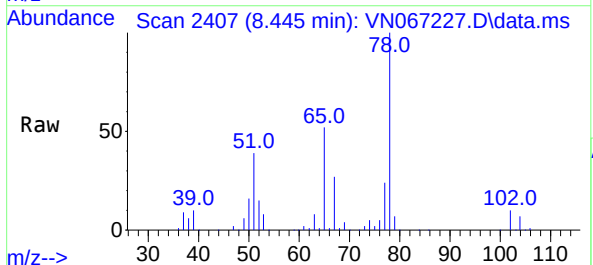
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 84  | 100   |       |       |
| 49  | 123.9 | 88.3  | 132.5 |
| 51  | 38.2  | 26.7  | 40.1  |
| 86  | 54.4  | 51.1  | 76.7  |

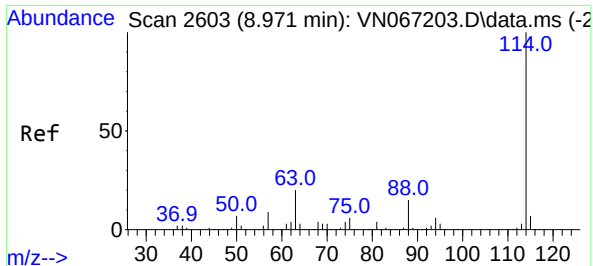


#33  
1,2-Dichloroethane-d4  
Concen: 45.730 ug/l  
RT: 8.445 min Scan# 2407  
Delta R.T. 0.003 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

Tgt Ion: 65 Resp: 153596

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 65  | 100   |       |       |
| 67  | 53.1  | 0.0   | 110.4 |

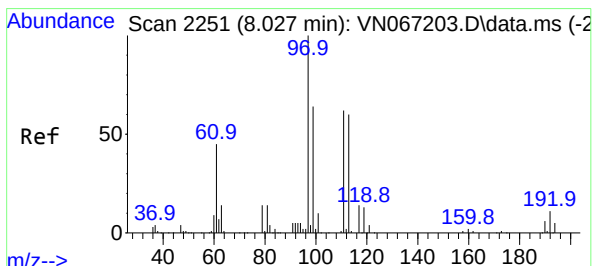
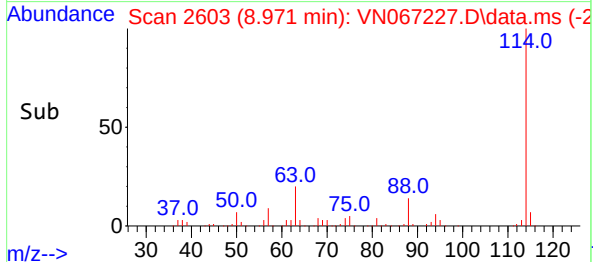
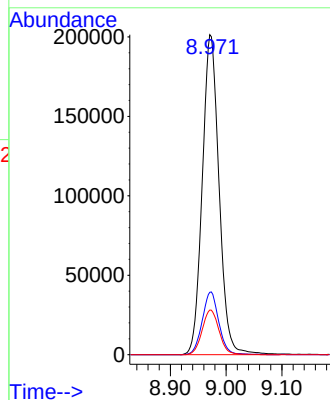
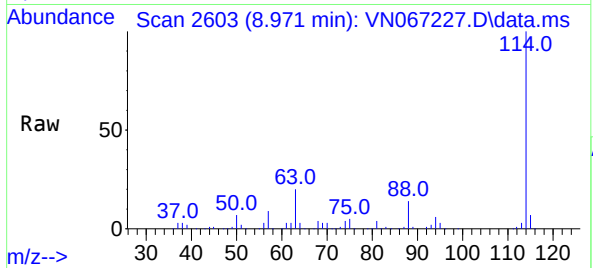




#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.971 min Scan# 2603  
Delta R.T. 0.000 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

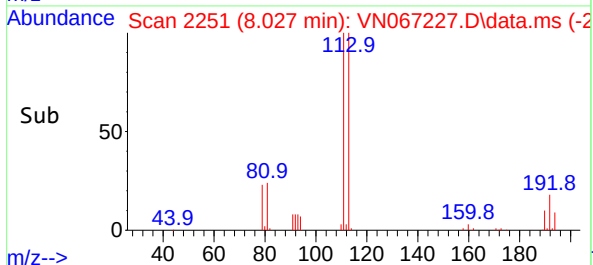
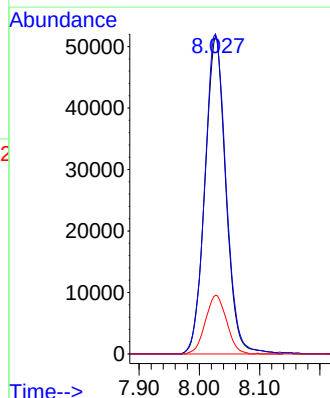
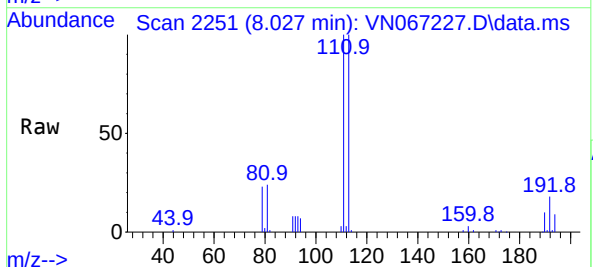
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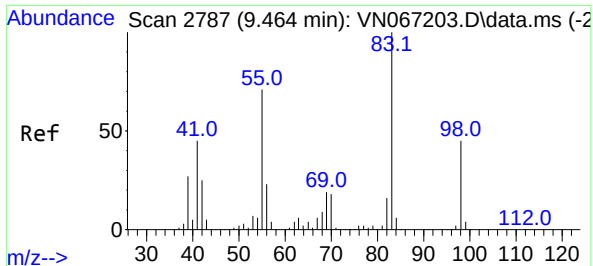
Tgt Ion:114 Resp: 420974  
Ion Ratio Lower Upper  
114 100  
63 19.5 0.0 35.8  
88 14.0 0.0 30.4



#35  
Dibromofluoromethane  
Concen: 47.627 ug/l  
RT: 8.027 min Scan# 2251  
Delta R.T. 0.000 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

Tgt Ion:113 Resp: 124295  
Ion Ratio Lower Upper  
113 100  
111 102.4 82.6 124.0  
192 18.7 18.2 27.4





#39

Methylcyclohexane

Concen: 3.945 ug/l

RT: 9.467 min Scan# 2788

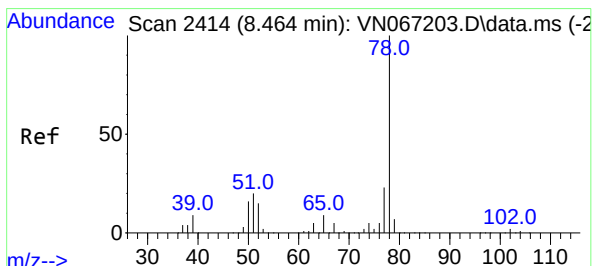
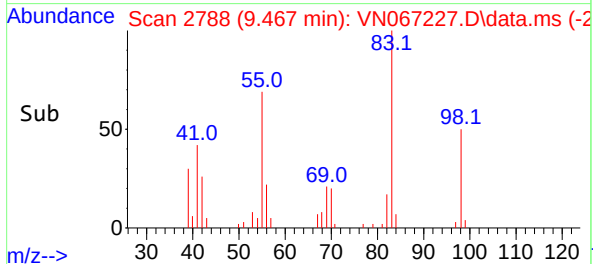
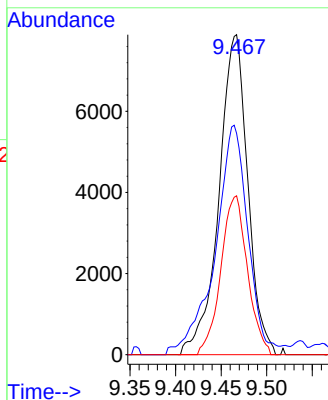
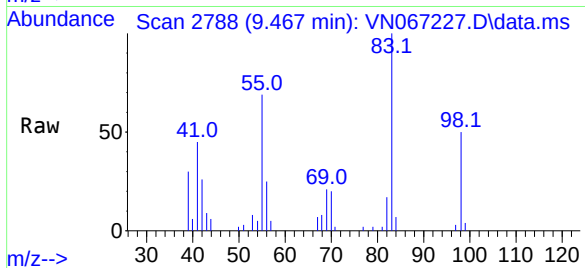
Delta R.T. 0.003 min

Lab File: VN067227.D

Acq: 5 Jun 2021 14:04

Tgt Ion: 83 Resp: 17374

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 83  | 100   |       |       |
| 55  | 66.5  | 56.2  | 84.2  |
| 98  | 49.7  | 36.8  | 55.2  |



#40

Benzene

Concen: 58.364 ug/l

RT: 8.467 min Scan# 2415

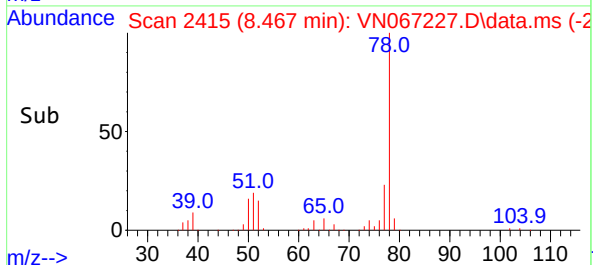
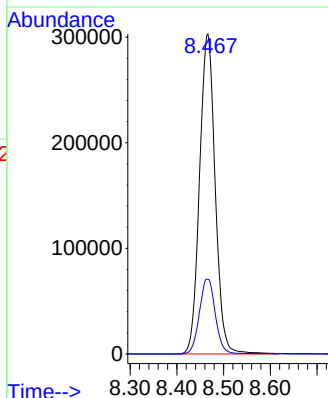
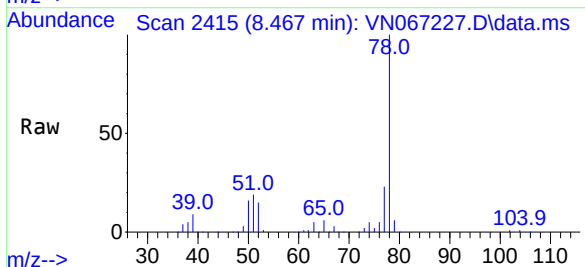
Delta R.T. 0.003 min

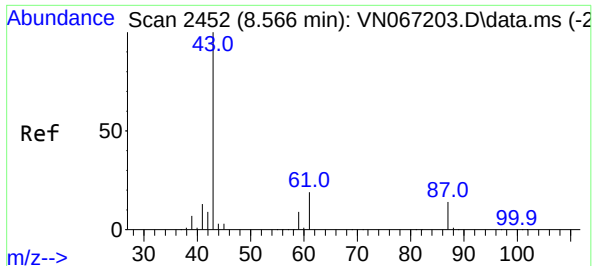
Lab File: VN067227.D

Acq: 5 Jun 2021 14:04

Tgt Ion: 78 Resp: 704127

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 78  | 100   |       |       |
| 77  | 23.4  | 18.4  | 27.6  |

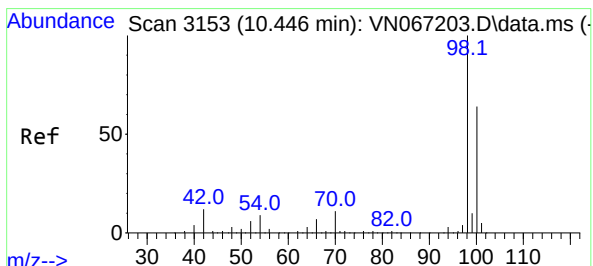
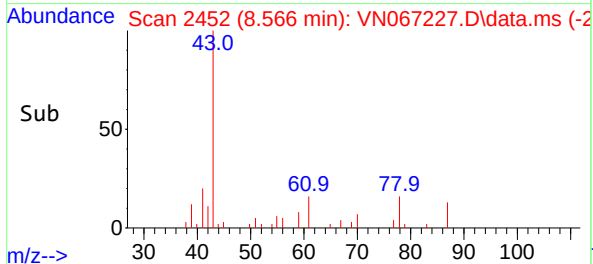
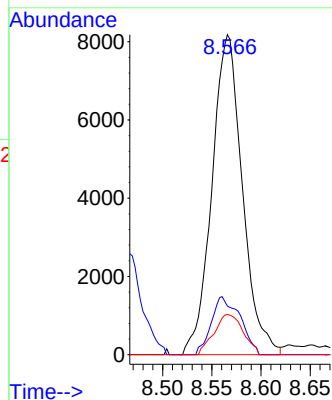
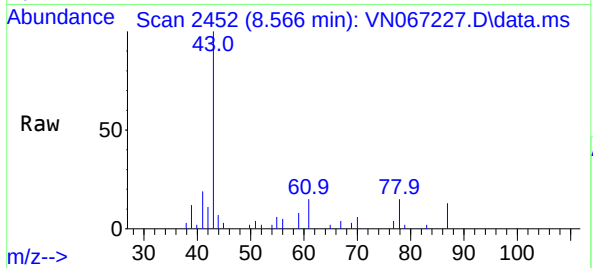




#43  
Isopropyl Acetate  
Concen: 2.473 ug/l  
RT: 8.566 min Scan# 2452  
Delta R.T. 0.000 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

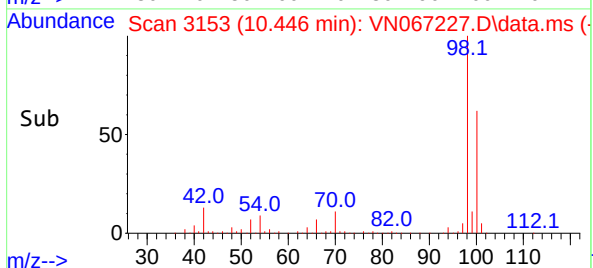
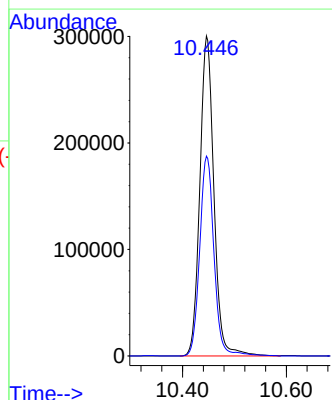
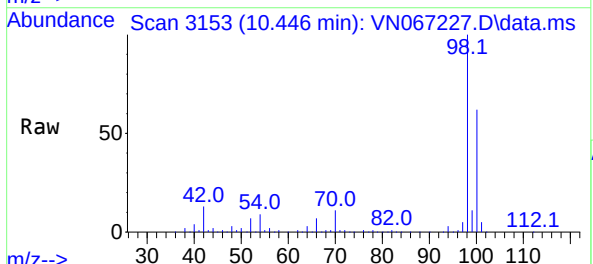
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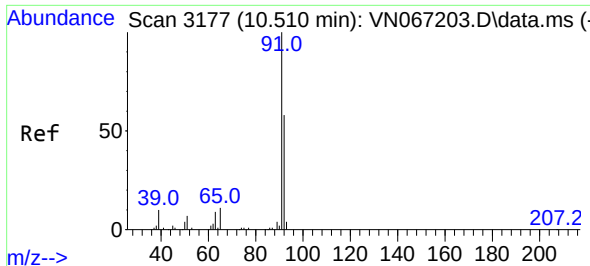
Tgt Ion: 43 Resp: 17626  
Ion Ratio Lower Upper  
43 100  
61 17.2 23.4 35.0#  
87 12.0 12.2 18.2#



#50  
Toluene-d8  
Concen: 53.080 ug/l  
RT: 10.446 min Scan# 3153  
Delta R.T. 0.000 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

Tgt Ion: 98 Resp: 564171  
Ion Ratio Lower Upper  
98 100  
100 63.5 51.8 77.8

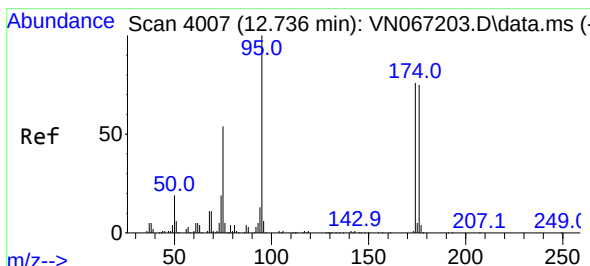
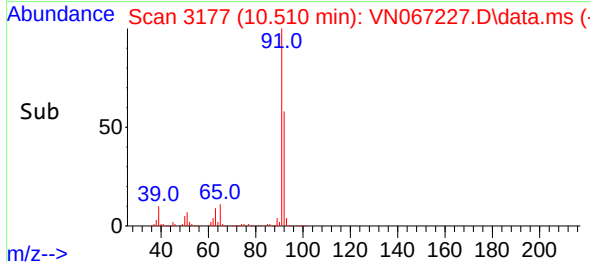
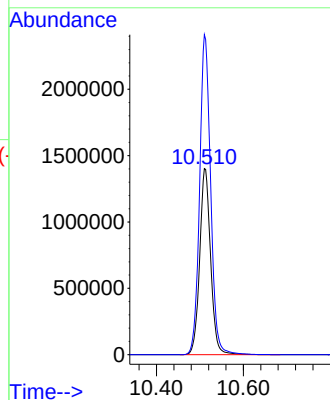
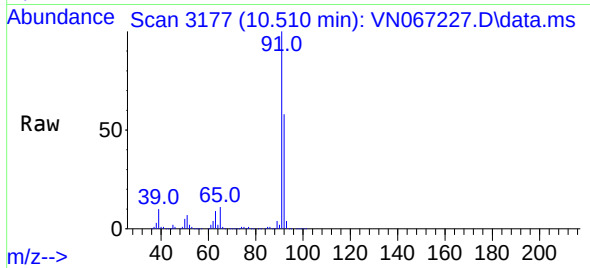




#52  
Toluene  
Concen: 306.926 ug/l  
RT: 10.510 min Scan# 3177  
Delta R.T. 0.000 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

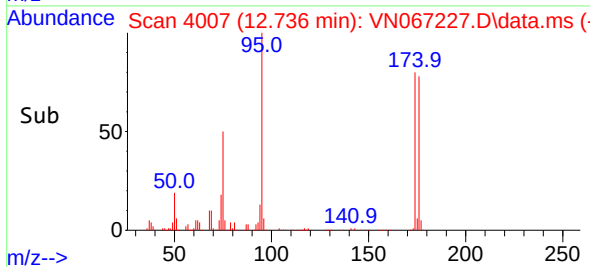
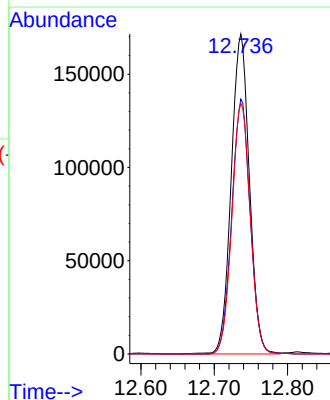
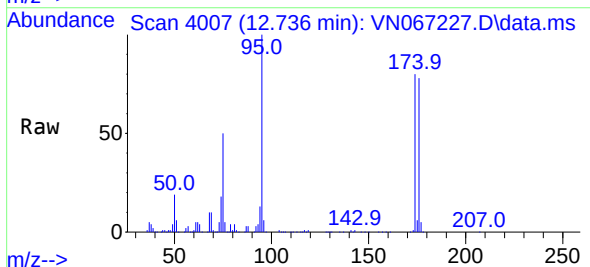
Instrument :  
MSVOA\_N  
ClientSampleId :  
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Tgt Ion: 92 Resp: 2442349  
Ion Ratio Lower Upper  
92 100  
91 173.6 138.7 208.1

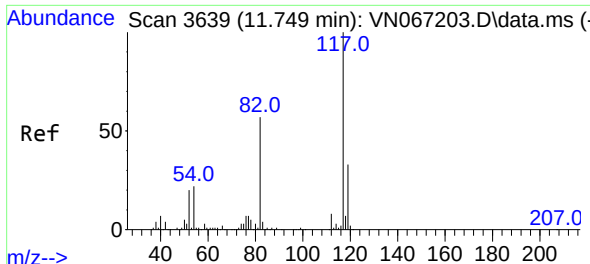


#62  
4-Bromofluorobenzene  
Concen: 72.070 ug/l  
RT: 12.736 min Scan# 4007  
Delta R.T. 0.000 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

Tgt Ion: 95 Resp: 295025  
Ion Ratio Lower Upper  
95 100  
174 80.5 0.0 182.8  
176 79.1 0.0 176.6

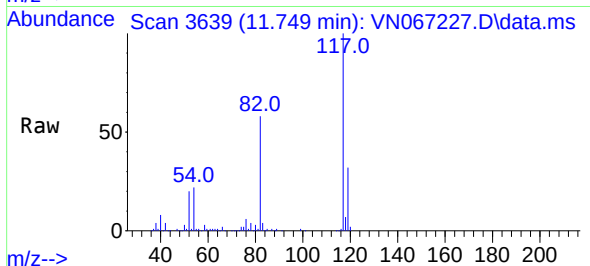




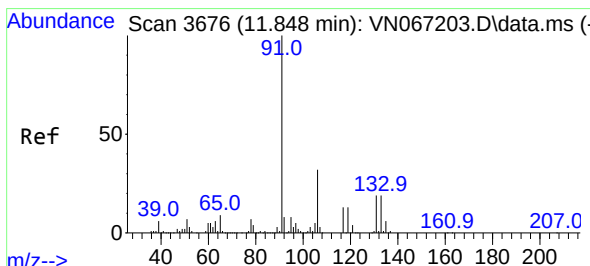
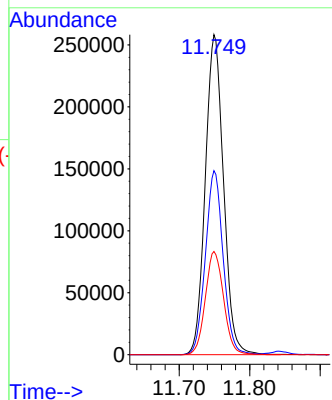
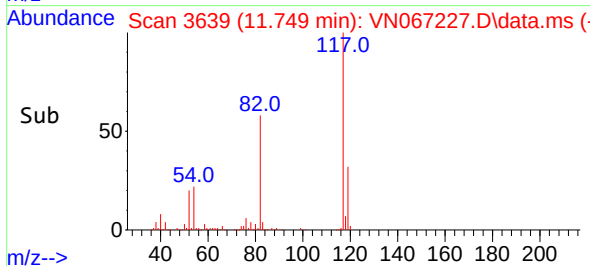


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.749 min Scan# 3639  
Delta R.T. 0.000 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

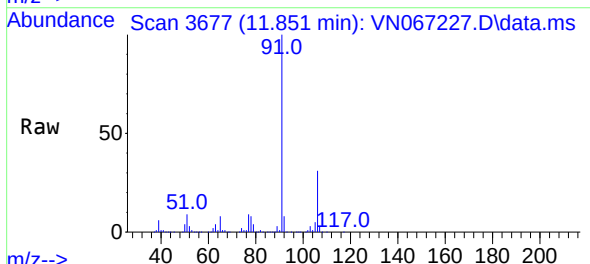
Instrument :  
MSVOA\_N  
ClientSampleId :  
FOUNDATION-EXCAVATION-SAMP



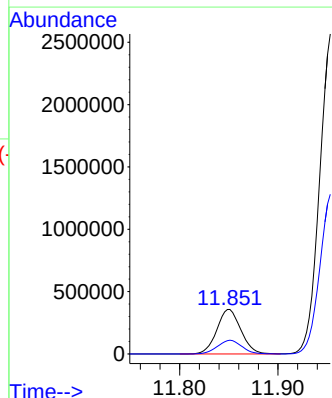
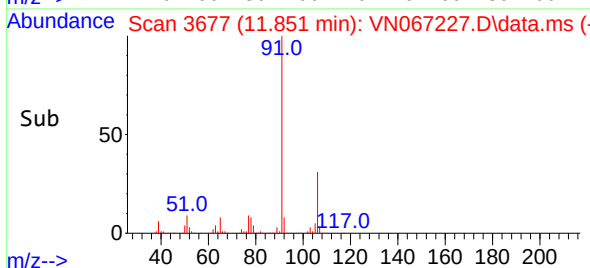
Tgt Ion:117 Resp: 463460  
Ion Ratio Lower Upper  
117 100  
82 57.5 42.2 63.2  
119 32.3 25.8 38.6

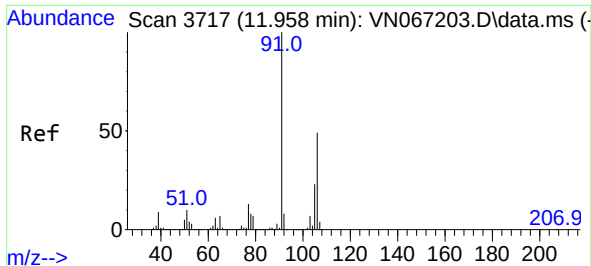


#67  
Ethyl Benzene  
Concen: 33.484 ug/l  
RT: 11.851 min Scan# 3677  
Delta R.T. 0.003 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04



Tgt Ion: 91 Resp: 608616  
Ion Ratio Lower Upper  
91 100  
106 31.0 26.2 39.2

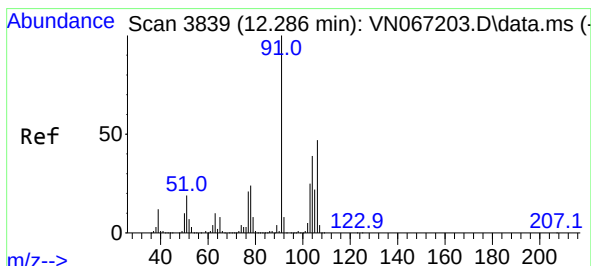
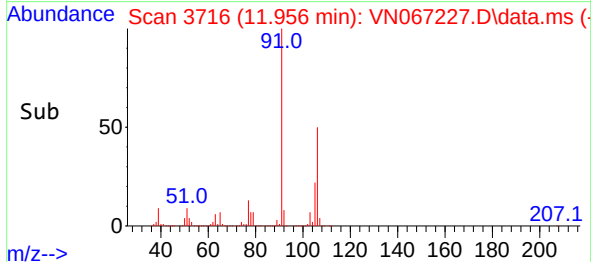
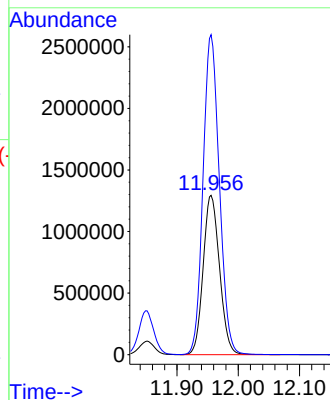
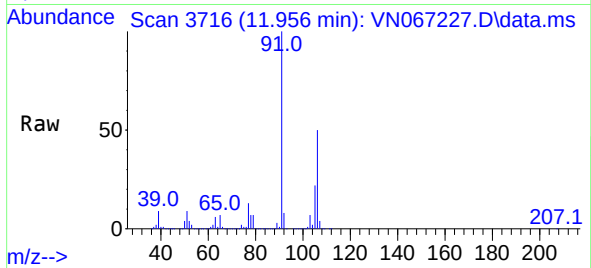




#68  
m/p-Xylenes  
Concen: 336.600 ug/l  
RT: 11.956 min Scan# 3716  
Delta R.T. -0.002 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

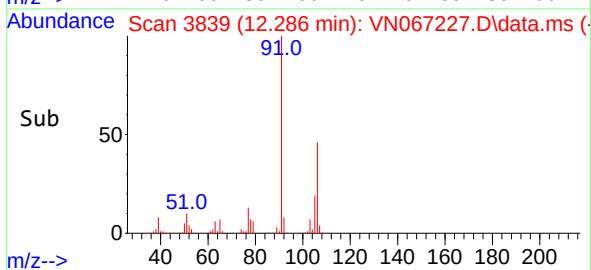
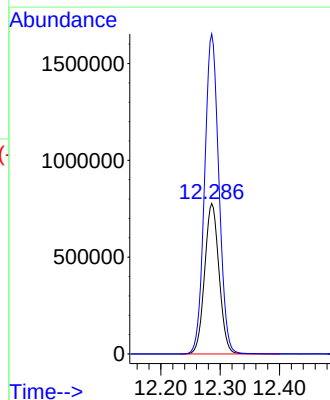
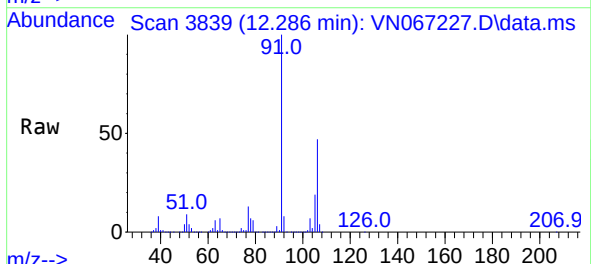
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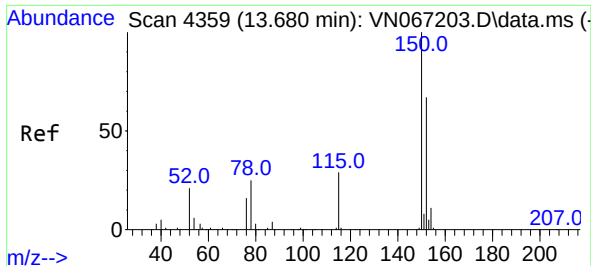
Tgt Ion:106 Resp: 2401291  
Ion Ratio Lower Upper  
106 100  
91 199.9 155.2 232.8



#69  
o-Xylene  
Concen: 187.572 ug/l  
RT: 12.286 min Scan# 3839  
Delta R.T. 0.000 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

Tgt Ion:106 Resp: 1307765  
Ion Ratio Lower Upper  
106 100  
91 211.4 102.3 306.8

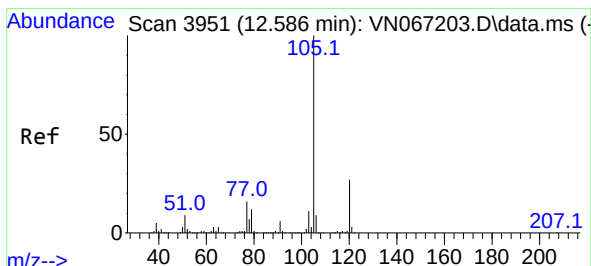
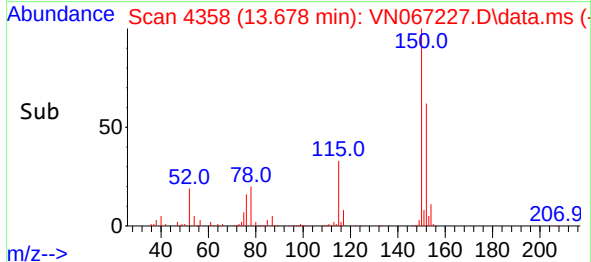
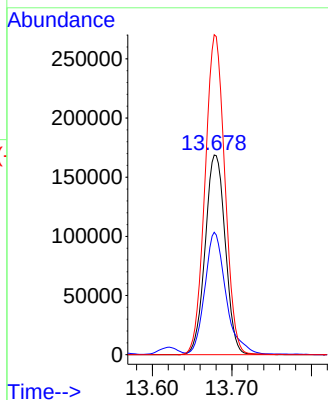
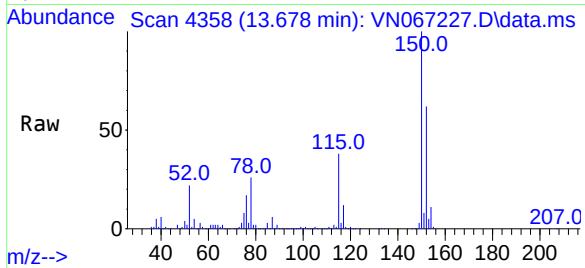




#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.678 min Scan# 4358  
Delta R.T. -0.003 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

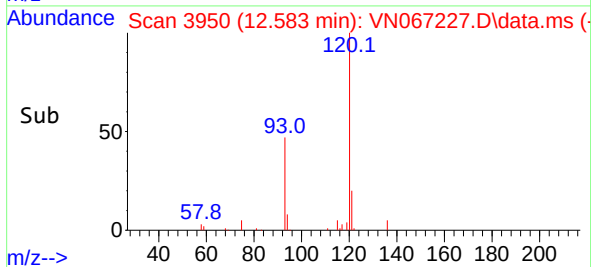
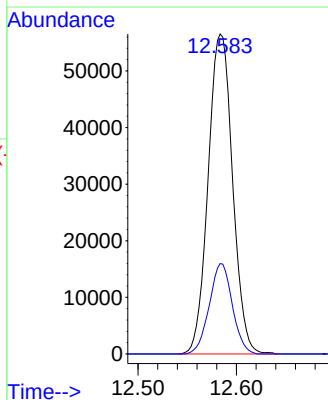
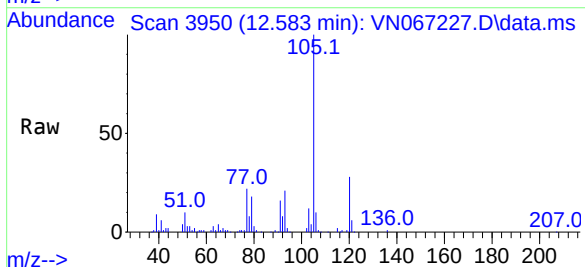
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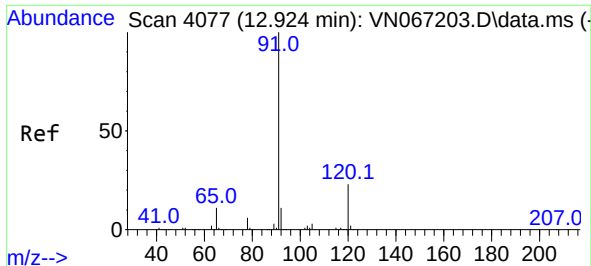
Tgt Ion:152 Resp: 297062  
Ion Ratio Lower Upper  
152 100  
115 64.1 27.0 80.8  
150 157.8 0.0 350.2



#73  
Isopropylbenzene  
Concen: 4.322 ug/l  
RT: 12.583 min Scan# 3950  
Delta R.T. -0.003 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

Tgt Ion:105 Resp: 97695  
Ion Ratio Lower Upper  
105 100  
120 26.6 13.7 41.0

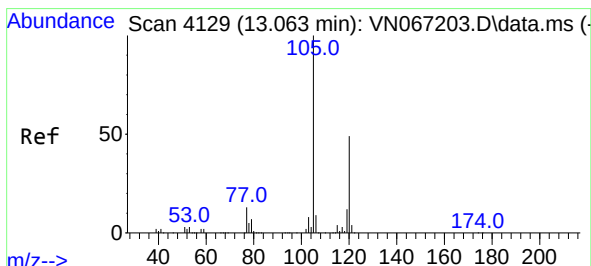
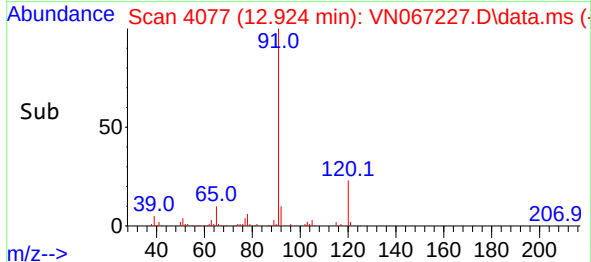
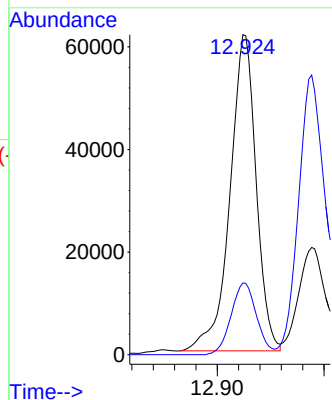
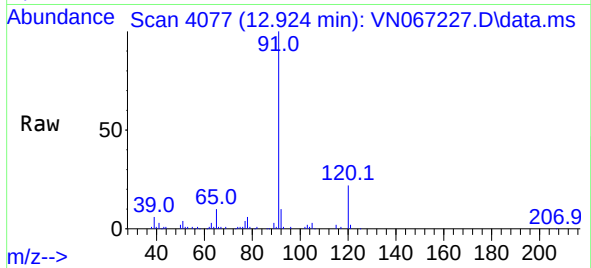




#78  
n-propylbenzene  
Concen: 3.980 ug/l  
RT: 12.924 min Scan# 4077  
Delta R.T. 0.000 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

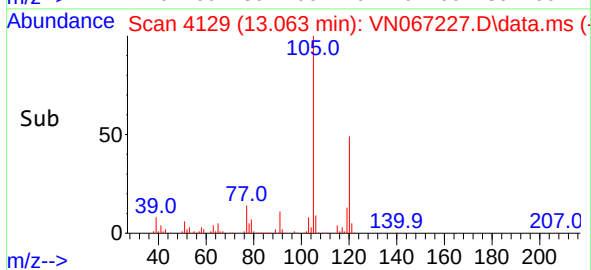
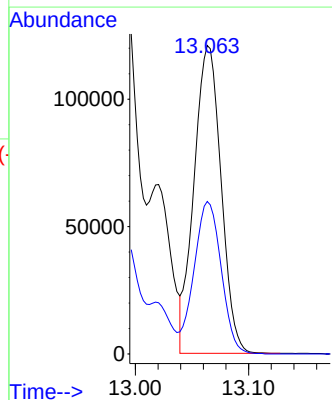
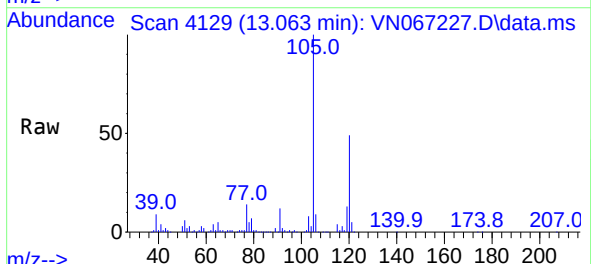
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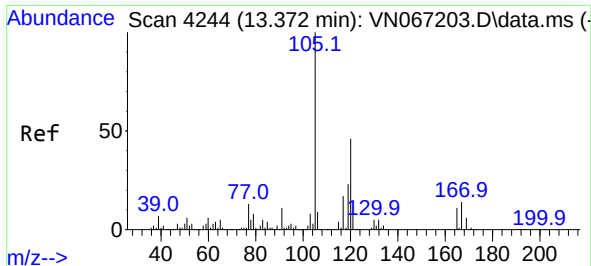
Tgt Ion: 91 Resp: 104835  
Ion Ratio Lower Upper  
91 100  
120 22.0 12.7 38.0



#80  
1,3,5-Trimethylbenzene  
Concen: 10.224 ug/l  
RT: 13.063 min Scan# 4129  
Delta R.T. 0.000 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

Tgt Ion:105 Resp: 200095  
Ion Ratio Lower Upper  
105 100  
120 50.2 25.0 75.0

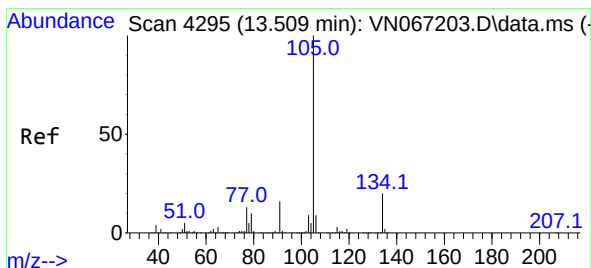
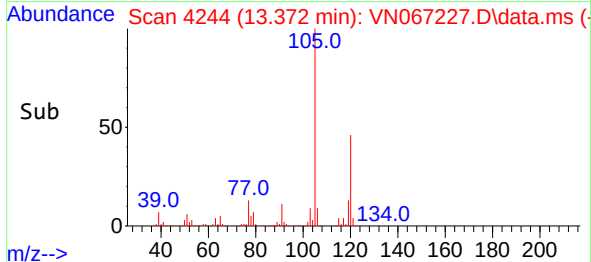
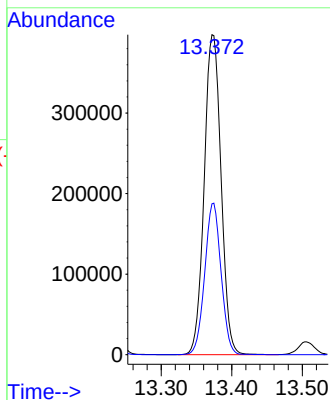
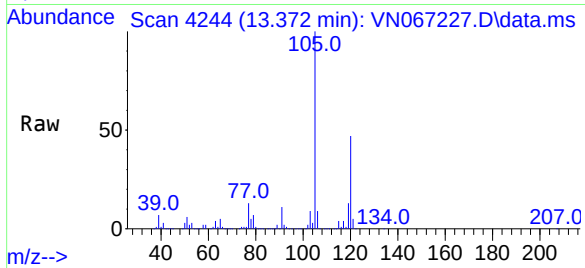




#84  
1,2,4-Trimethylbenzene  
Concen: 33.935 ug/l  
RT: 13.372 min Scan# 4244  
Delta R.T. 0.000 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

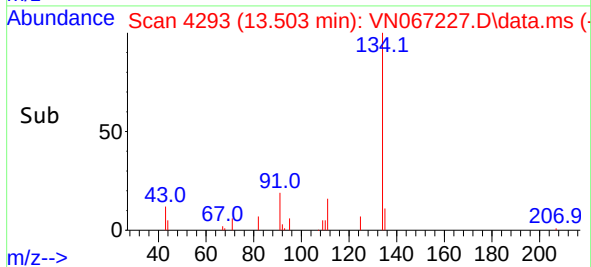
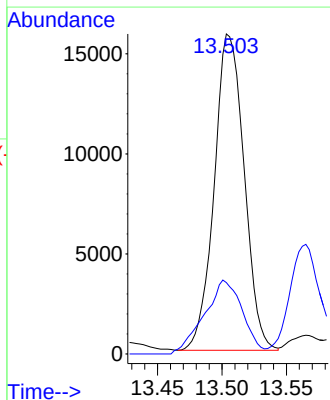
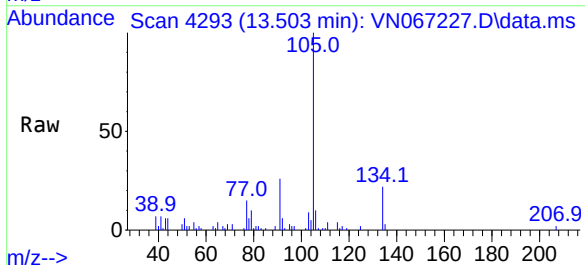
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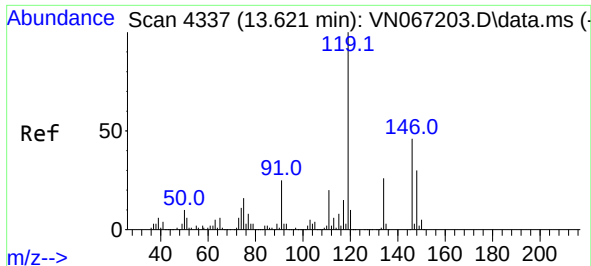
Tgt Ion:105 Resp: 660579  
Ion Ratio Lower Upper  
105 100  
120 45.8 23.8 71.2



#85  
sec-Butylbenzene  
Concen: 1.098 ug/l  
RT: 13.503 min Scan# 4293  
Delta R.T. -0.005 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

Tgt Ion:105 Resp: 25532  
Ion Ratio Lower Upper  
105 100  
134 29.6 10.5 31.5

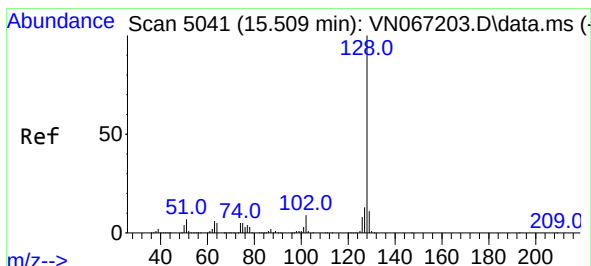
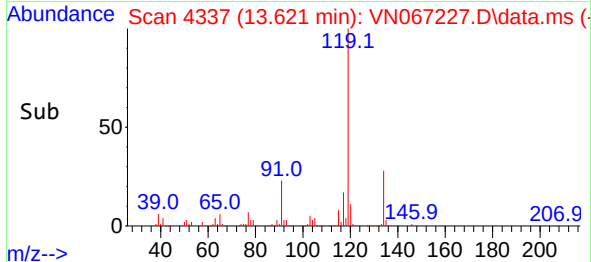
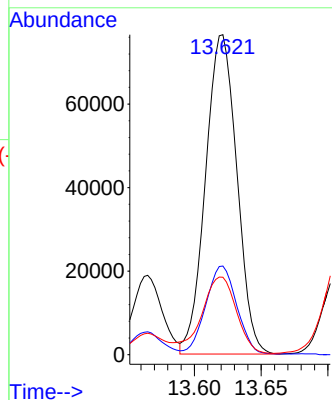
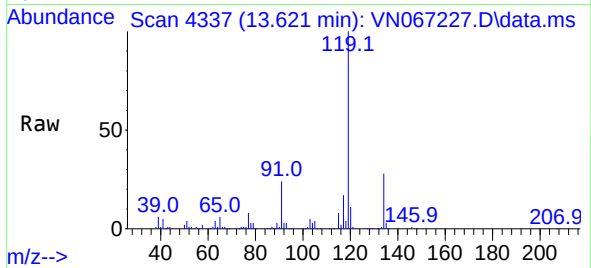




#86  
p-Isopropyltoluene  
Concen: 6.068 ug/l  
RT: 13.621 min Scan# 4337  
Delta R.T. 0.000 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

Instrument :  
MSVOA\_N  
ClientSampleId :  
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Tgt Ion:119 Resp: 124886  
Ion Ratio Lower Upper  
119 100  
134 27.4 13.3 39.9  
91 25.9 10.7 32.1



#95  
Naphthalene  
Concen: 7.554 ug/l  
RT: 15.512 min Scan# 5042  
Delta R.T. 0.003 min  
Lab File: VN067227.D  
Acq: 5 Jun 2021 14:04

Tgt Ion:128 Resp: 45341  
Ion Ratio Lower Upper  
128 100  
127 13.6 10.2 15.2  
129 10.4 8.6 13.0

