

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN122221\  
 Data File : VN070289.D  
 Acq On : 22 Dec 2021 14:13  
 Operator : JC/MD  
 Sample : M5039-08DL 40X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-28DL

Quant Time: Dec 22 14:45:51 2021  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
 Quant Title : SW846 8260  
 QLast Update : Fri Dec 03 08:46:47 2021  
 Response via : Initial Calibration

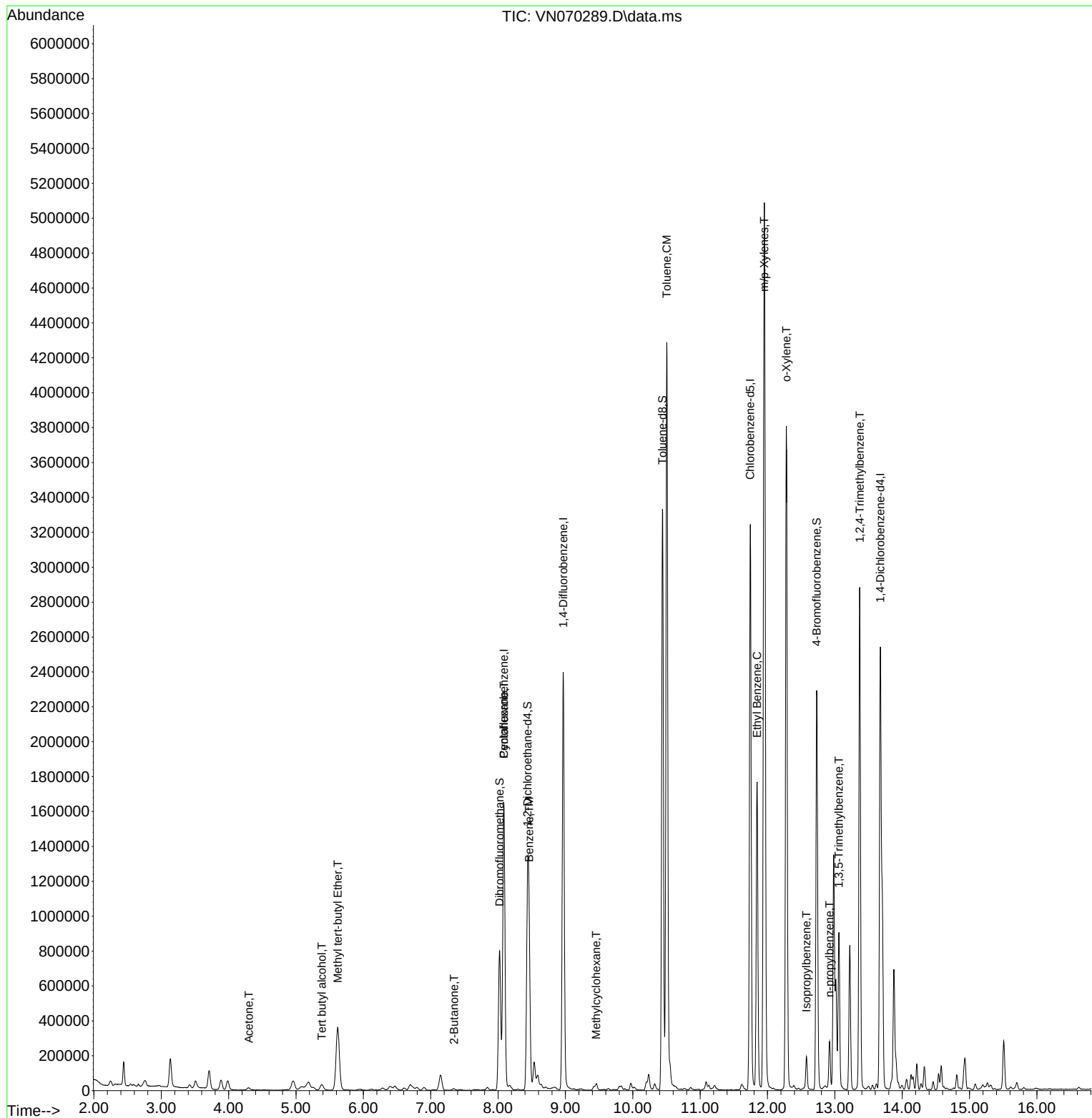
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Pentafluorobenzene       | 8.086  | 168   | 1216113  | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.968  | 114   | 1992933  | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.744 | 117   | 1788630  | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.675 | 152   | 674247   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.437  | 65    | 884811   | 47.123   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | =      | 94.240%  |
| 35) Dibromofluoromethane    | 8.021  | 113   | 587512   | 47.064   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | =      | 94.120%  |
| 50) Toluene-d8              | 10.441 | 98    | 2294703  | 45.780   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | =      | 91.560%  |
| 62) 4-Bromofluorobenzene    | 12.731 | 95    | 816949   | 44.989   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | =      | 89.980%  |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 11) Tert butyl alcohol      | 5.382  | 59    | 56003    | 15.779   | ug/l # | 71       |
| 16) Acetone                 | 4.299  | 43    | 22329    | 1.977    | ug/l   | 99       |
| 19) Methyl tert-butyl Ether | 5.618  | 73    | 541386   | 12.020   | ug/l # | 90       |
| 25) 2-Butanone              | 7.348  | 43    | 13533    | 0.882    | ug/l # | 88       |
| 31) Cyclohexane             | 8.086  | 56    | 54562    | 2.088    | ug/l # | 58       |
| 39) Methylcyclohexane       | 9.456  | 83    | 14060    | 0.623    | ug/l   | 91       |
| 40) Benzene                 | 8.461  | 78    | 740386   | 12.767   | ug/l   | 100      |
| 52) Toluene                 | 10.505 | 92    | 1826916  | 51.602   | ug/l   | 98       |
| 67) Ethyl Benzene           | 11.846 | 91    | 1279622  | 19.414   | ug/l   | 95       |
| 68) m/p-Xylenes             | 11.953 | 106   | 1639759  | 68.325   | ug/l   | 91       |
| 69) o-Xylene                | 12.280 | 106   | 1019706  | 42.182   | ug/l   | 90       |
| 73) Isopropylbenzene        | 12.578 | 105   | 121555   | 2.026    | ug/l   | 97       |
| 78) n-propylbenzene         | 12.921 | 91    | 221007   | 3.311    | ug/l   | 94       |
| 80) 1,3,5-Trimethylbenzene  | 13.061 | 105   | 504355   | 10.446   | ug/l   | 96       |
| 84) 1,2,4-Trimethylbenzene  | 13.369 | 105   | 1652188  | 35.930   | ug/l   | 97       |
| -----                       |        |       |          |          |        |          |

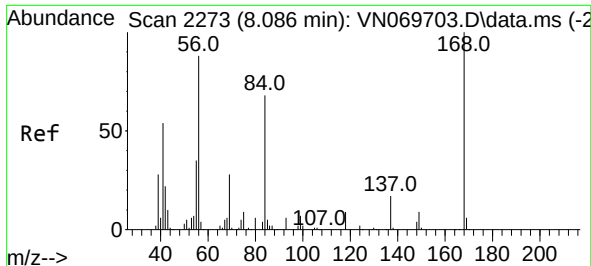
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN12221\  
Data File : VN070289.D  
Acq On : 22 Dec 2021 14:13  
Operator : JC/MD  
Sample : M5039-08DL 40X  
Misc : 5.00mL/MSVOA\_N/WATER  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-28DL

Quant Time: Dec 22 14:45:51 2021  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N120221W.M  
Quant Title : SW846 8260  
QLast Update : Fri Dec 03 08:46:47 2021  
Response via : Initial Calibration

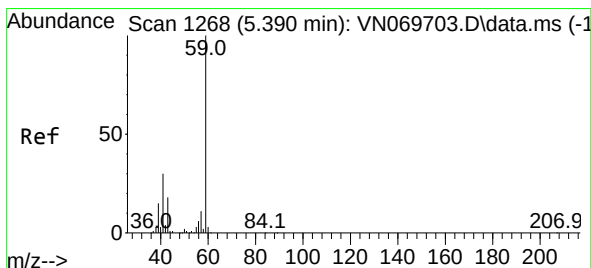
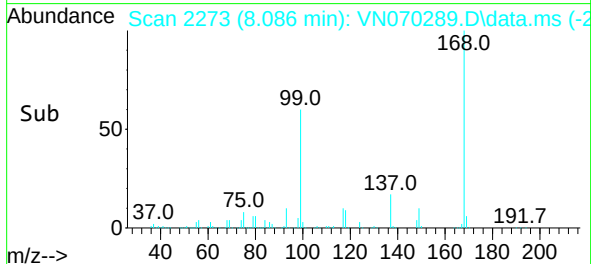
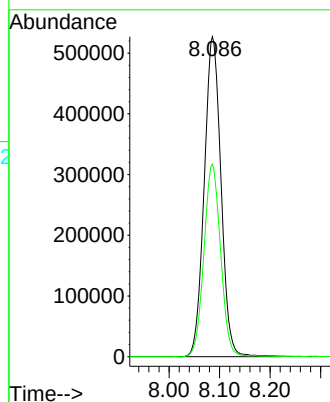
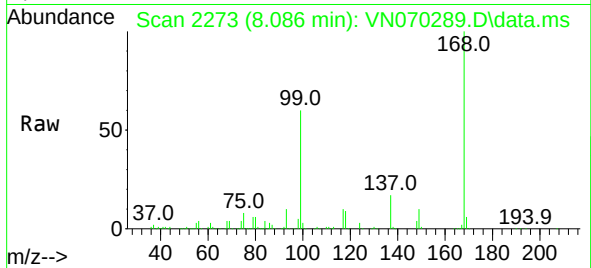




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

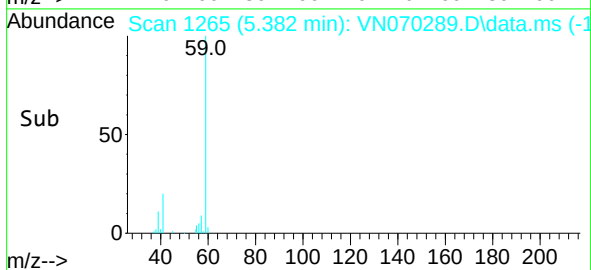
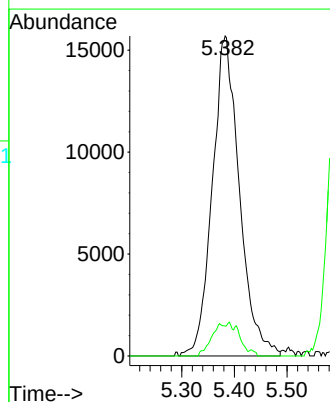
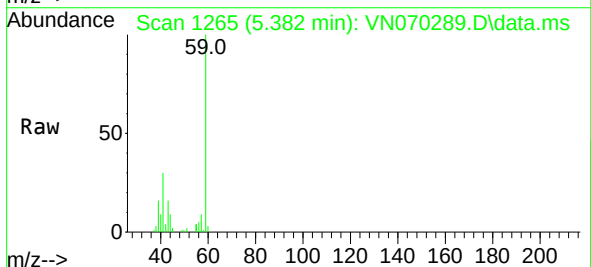
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-28DL

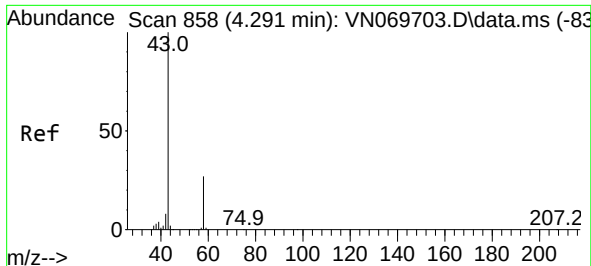
Tgt Ion:168 Resp: 1216113  
Ion Ratio Lower Upper  
168 100  
99 60.2 41.3 61.9



#11  
Tert butyl alcohol  
Concen: 15.779 ug/l  
RT: 5.382 min Scan# 1265  
Delta R.T. -0.008 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

Tgt Ion: 59 Resp: 56003  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#

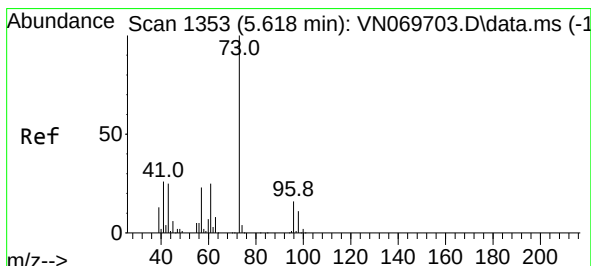
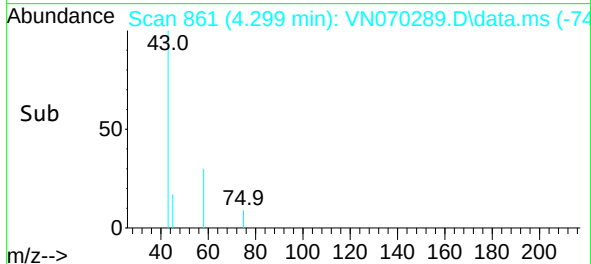
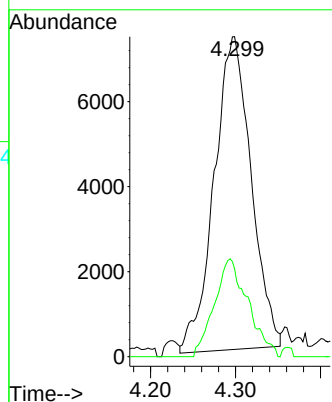
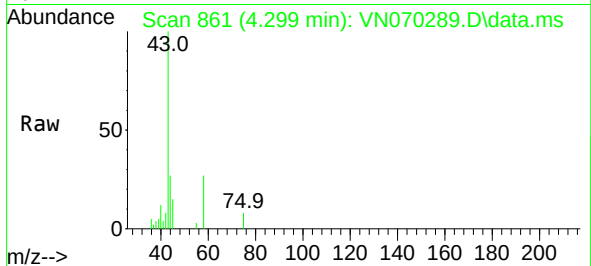




#16  
Acetone  
Concen: 1.977 ug/l  
RT: 4.299 min Scan# 858  
Delta R.T. 0.008 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

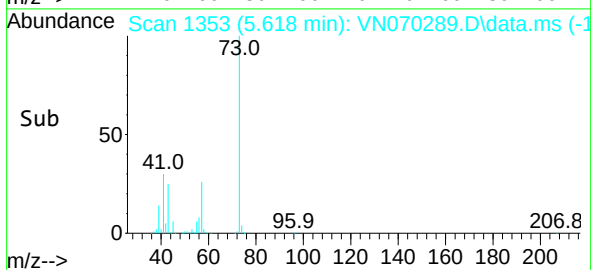
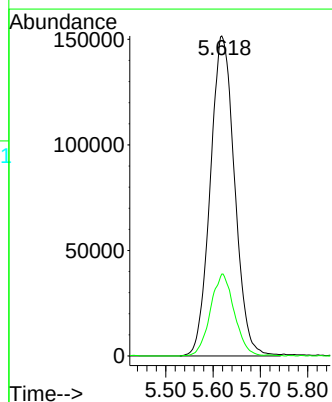
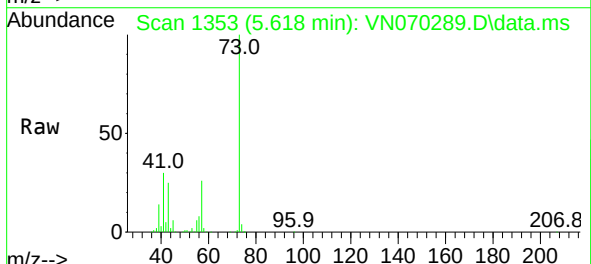
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-28DL

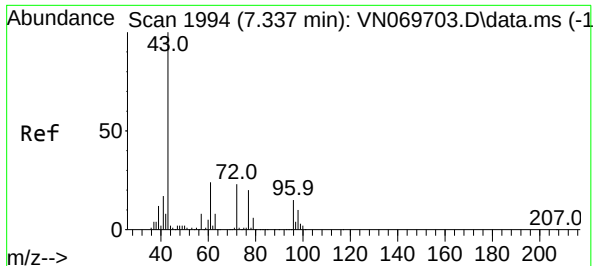
Tgt Ion: 43 Resp: 22329  
Ion Ratio Lower Upper  
43 100  
58 28.4 23.1 34.7



#19  
Methyl tert-butyl Ether  
Concen: 12.020 ug/l  
RT: 5.618 min Scan# 1353  
Delta R.T. 0.000 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

Tgt Ion: 73 Resp: 541386  
Ion Ratio Lower Upper  
73 100  
57 25.6 16.8 25.2#





#25

2-Butanone

Concen: 0.882 ug/l

RT: 7.348 min Scan# 1994

Delta R.T. 0.011 min

Lab File: VN070289.D

Acq: 22 Dec 2021 14:13

Instrument :

MSVOA\_N

ClientSampleId :

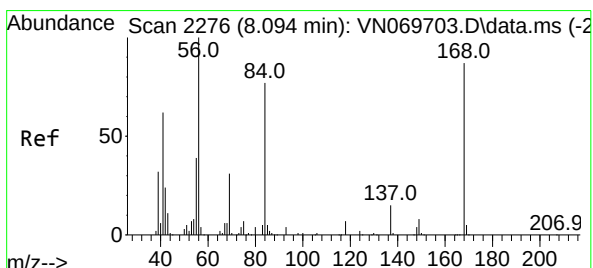
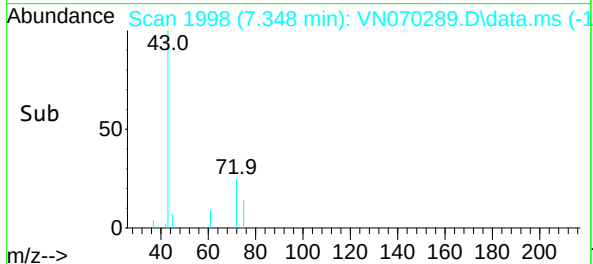
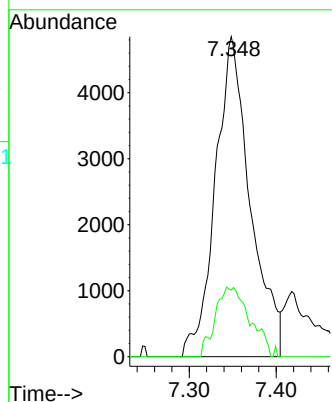
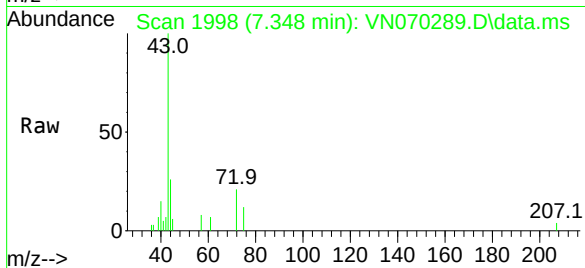
MW-28DL

Tgt Ion: 43 Resp: 13533

Ion Ratio Lower Upper

43 100

72 20.8 21.7 32.5#



#31

Cyclohexane

Concen: 2.088 ug/l

RT: 8.086 min Scan# 2273

Delta R.T. -0.008 min

Lab File: VN070289.D

Acq: 22 Dec 2021 14:13

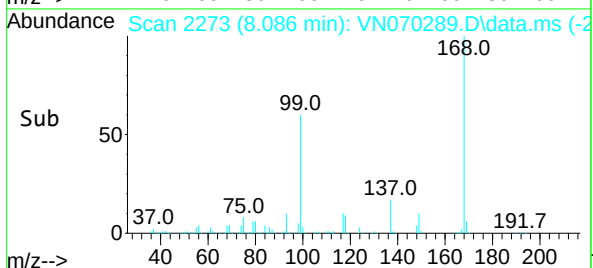
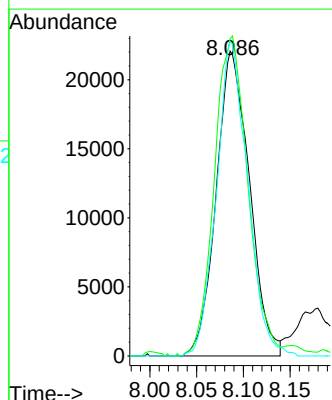
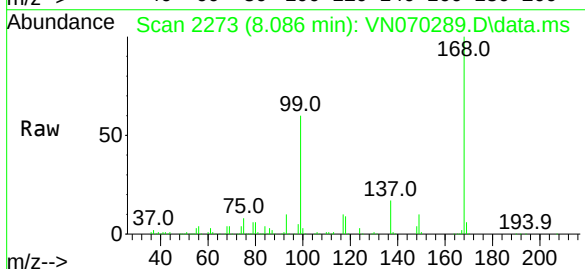
Tgt Ion: 56 Resp: 54562

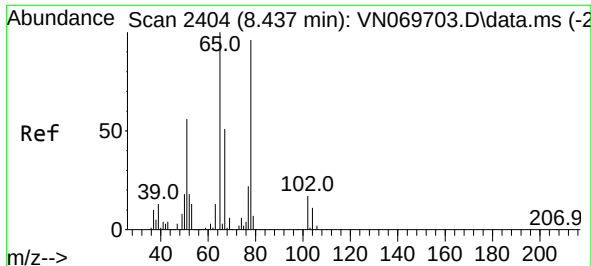
Ion Ratio Lower Upper

56 100

69 104.1 27.1 40.7#

84 103.2 73.4 110.0





#33

1,2-Dichloroethane-d4

Concen: 47.123 ug/l

RT: 8.437 min Scan# 24

Delta R.T. 0.000 min

Lab File: VN070289.D

Acq: 22 Dec 2021 14:13

Instrument :

MSVOA\_N

ClientSampleId :

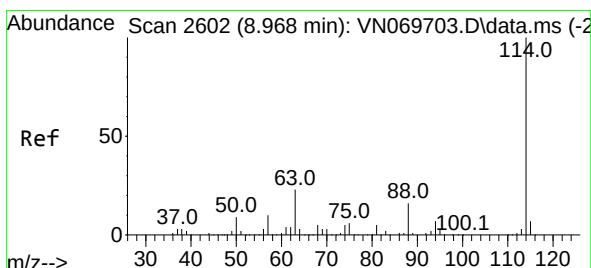
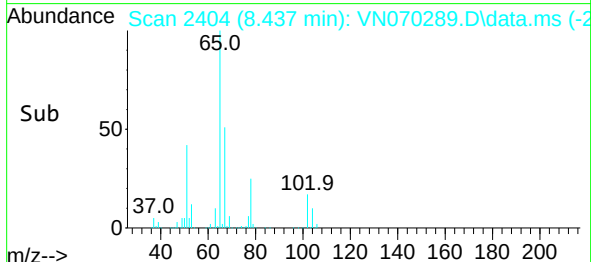
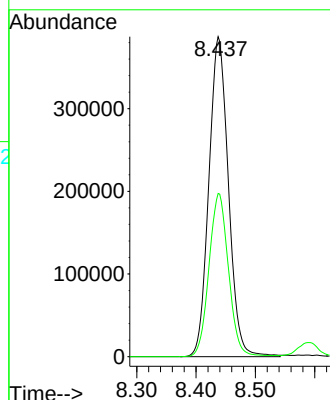
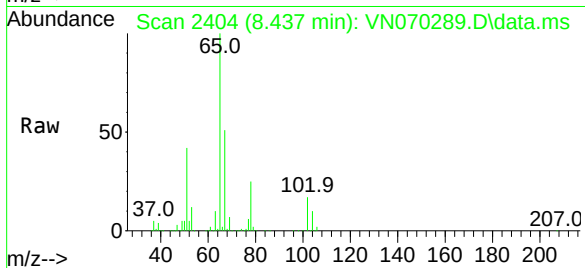
MW-28DL

Tgt Ion: 65 Resp: 884811

Ion Ratio Lower Upper

65 100

67 50.9 0.0 103.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.968 min Scan# 2602

Delta R.T. 0.000 min

Lab File: VN070289.D

Acq: 22 Dec 2021 14:13

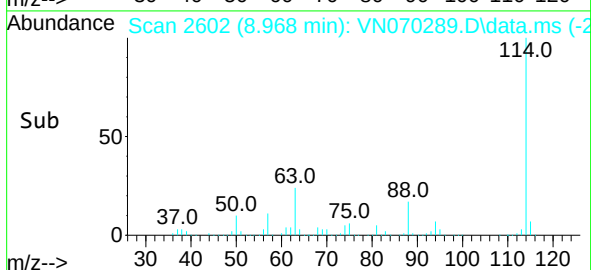
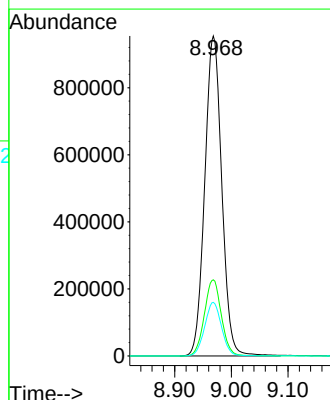
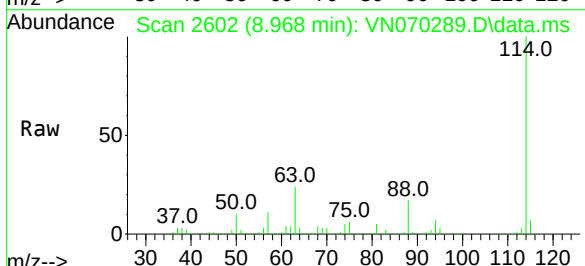
Tgt Ion: 114 Resp: 1992933

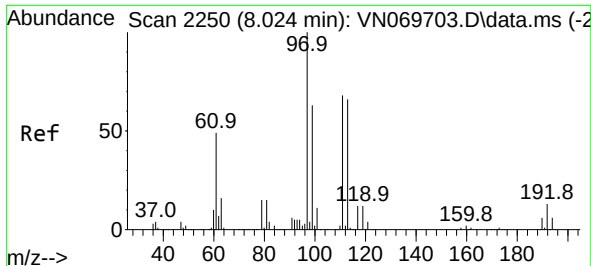
Ion Ratio Lower Upper

114 100

63 23.8 0.0 37.8

88 16.8 0.0 27.4

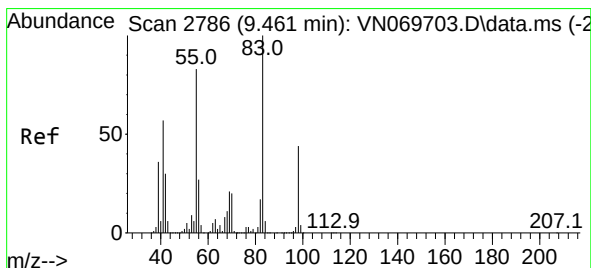
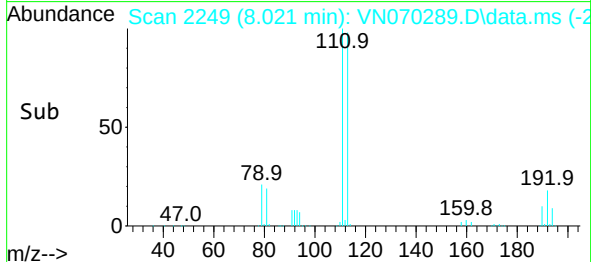
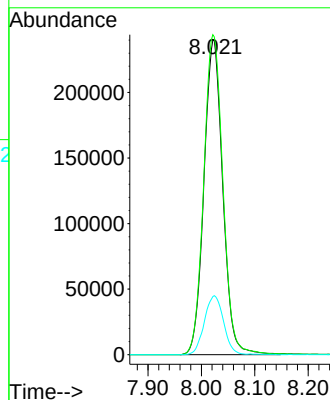
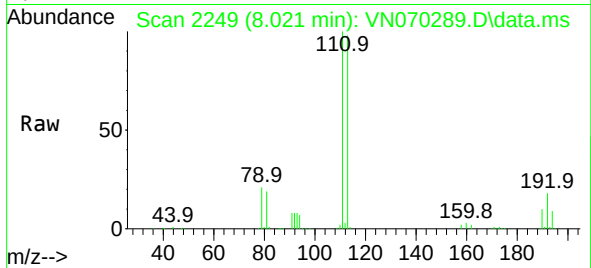




#35  
Dibromofluoromethane  
Concen: 47.064 ug/l  
RT: 8.021 min Scan# 211  
Delta R.T. -0.002 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

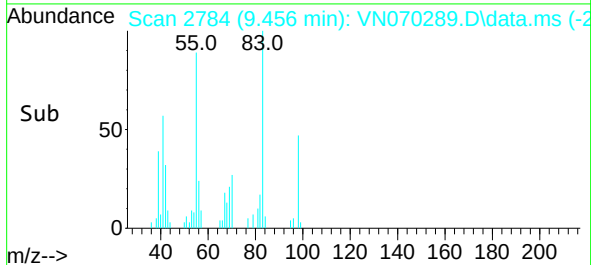
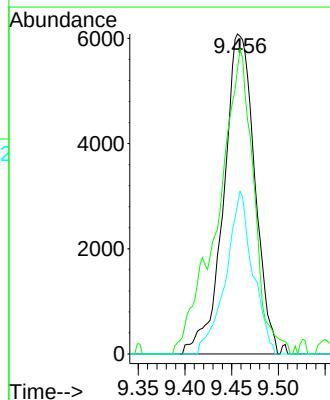
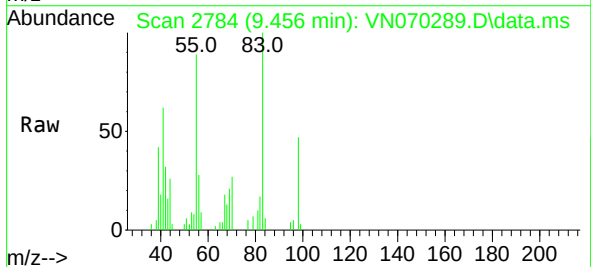
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-28DL

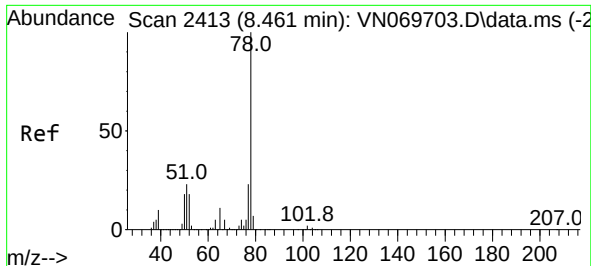
Tgt Ion:113 Resp: 587512  
Ion Ratio Lower Upper  
113 100  
111 103.6 82.2 123.2  
192 19.1 16.9 25.3



#39  
Methylcyclohexane  
Concen: 0.623 ug/l  
RT: 9.456 min Scan# 2784  
Delta R.T. -0.005 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

Tgt Ion: 83 Resp: 14060  
Ion Ratio Lower Upper  
83 100  
55 84.8 58.1 87.1  
98 46.9 38.4 57.6

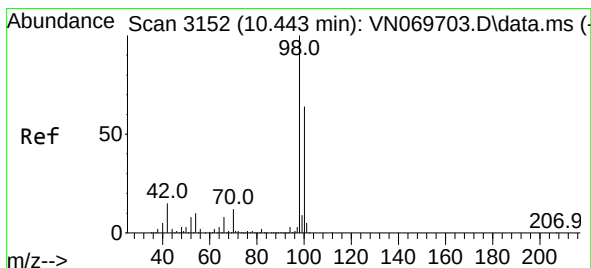
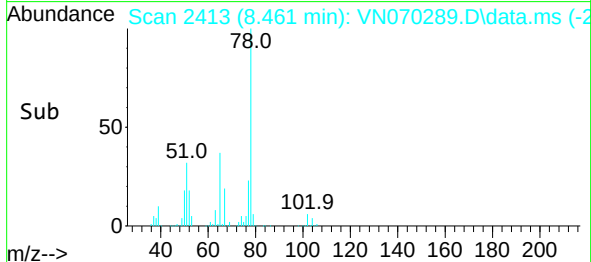
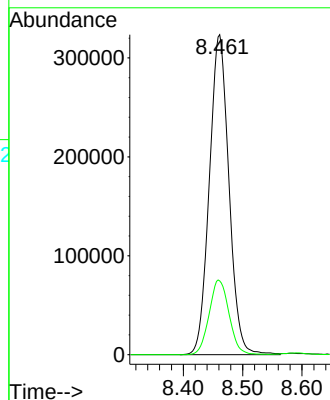
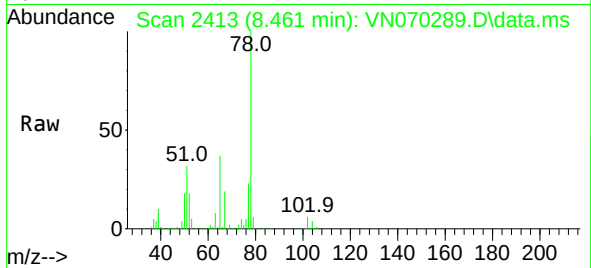




#40  
Benzene  
Concen: 12.767 ug/l  
RT: 8.461 min Scan# 2413  
Delta R.T. 0.000 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

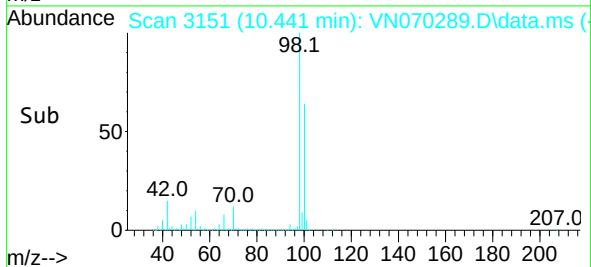
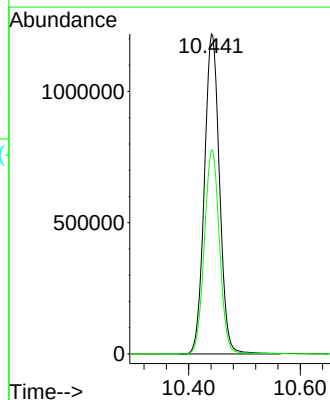
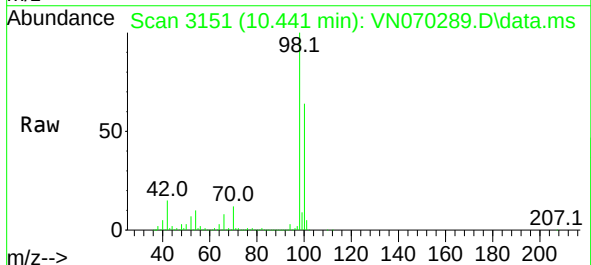
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-28DL

Tgt Ion: 78 Resp: 740386  
Ion Ratio Lower Upper  
78 100  
77 23.0 18.6 27.8

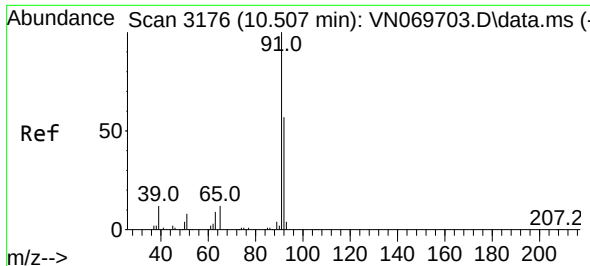


#50  
Toluene-d8  
Concen: 45.780 ug/l  
RT: 10.441 min Scan# 3151  
Delta R.T. -0.002 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

Tgt Ion: 98 Resp: 2294703  
Ion Ratio Lower Upper  
98 100  
100 63.9 50.4 75.6



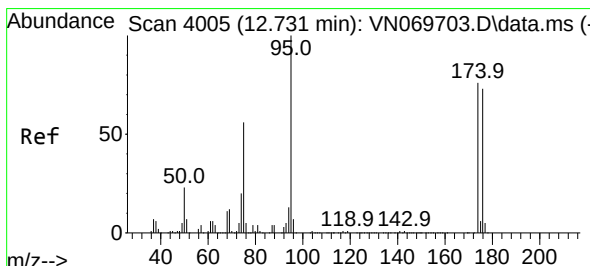
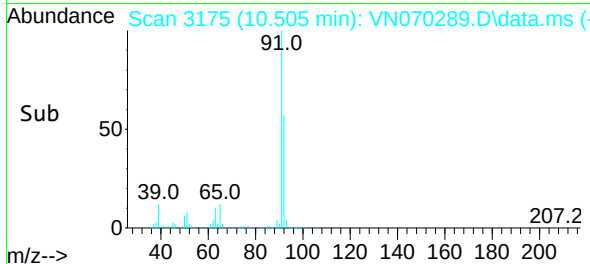
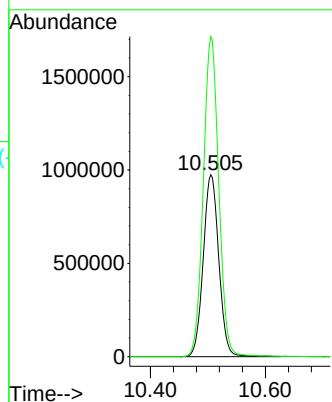
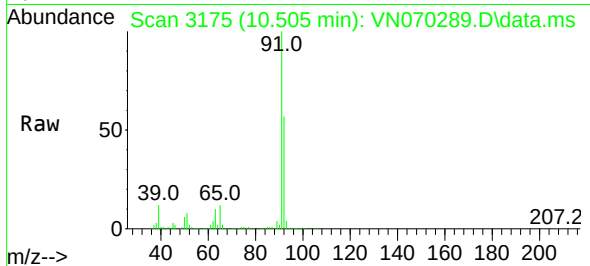




#52  
Toluene  
Concen: 51.602 ug/l  
RT: 10.505 min Scan# 3176  
Delta R.T. -0.002 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

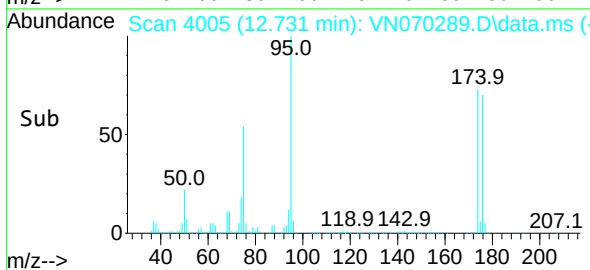
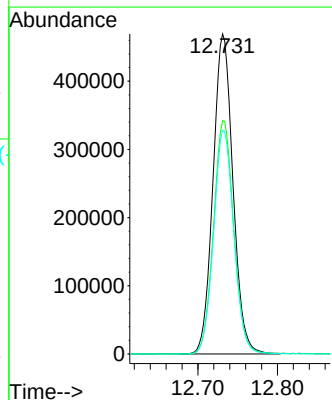
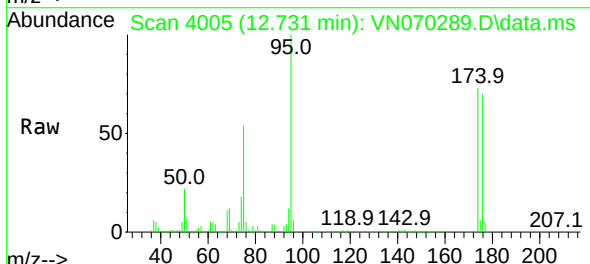
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-28DL

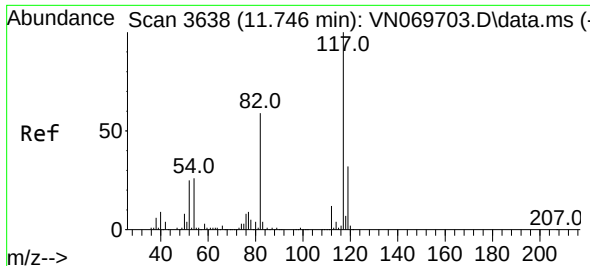
Tgt Ion: 92 Resp: 1826916  
Ion Ratio Lower Upper  
92 100  
91 175.0 142.0 213.0



#62  
4-Bromofluorobenzene  
Concen: 44.989 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.000 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

Tgt Ion: 95 Resp: 816949  
Ion Ratio Lower Upper  
95 100  
174 74.2 0.0 187.2  
176 70.9 0.0 181.4

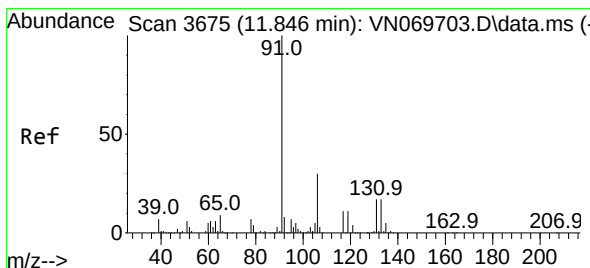
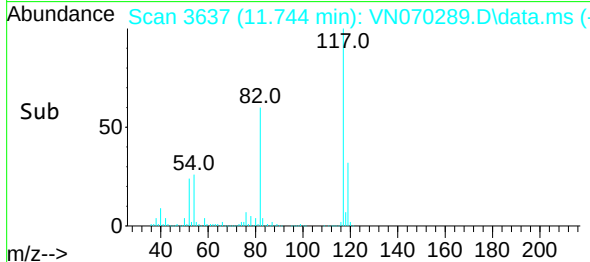
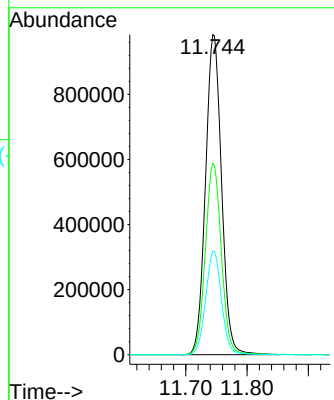
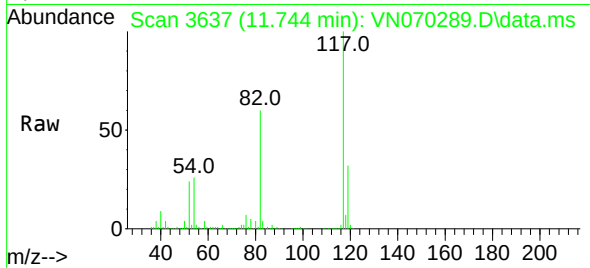




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.744 min Scan# 3637  
Delta R.T. -0.002 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

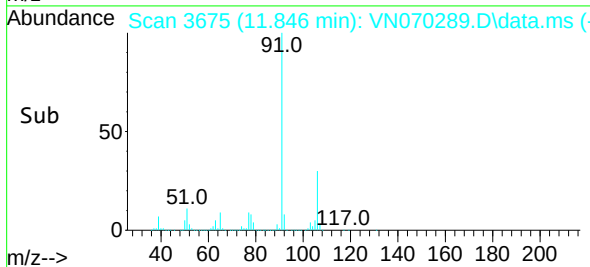
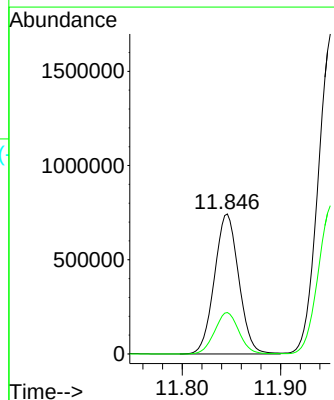
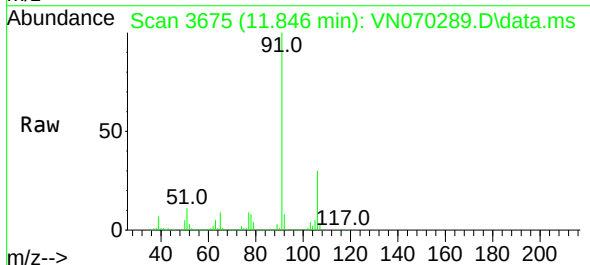
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-28DL

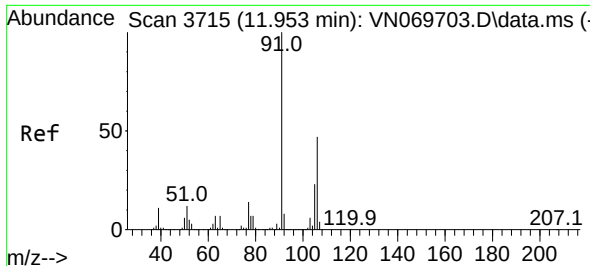
Tgt Ion:117 Resp: 1788630  
Ion Ratio Lower Upper  
117 100  
82 59.8 42.4 63.6  
119 32.2 25.4 38.2



#67  
Ethyl Benzene  
Concen: 19.414 ug/l  
RT: 11.846 min Scan# 3675  
Delta R.T. 0.000 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

Tgt Ion: 91 Resp: 1279622  
Ion Ratio Lower Upper  
91 100  
106 29.5 25.7 38.5

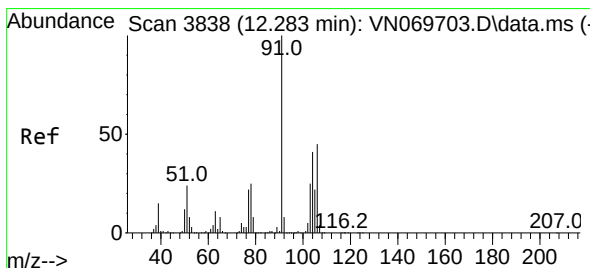
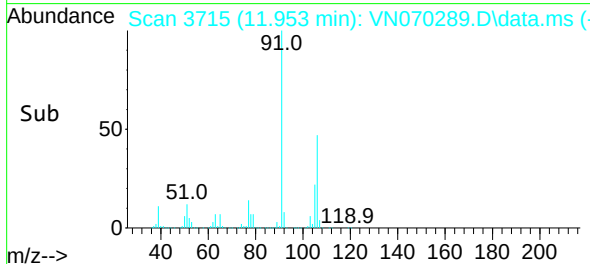
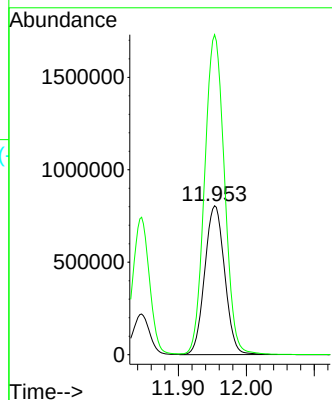
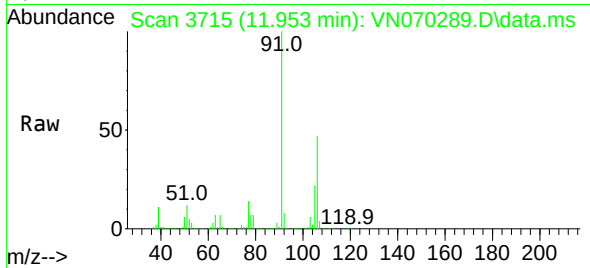




#68  
m/p-Xylenes  
Concen: 68.325 ug/l  
RT: 11.953 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

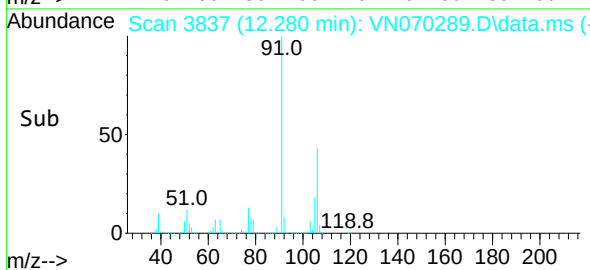
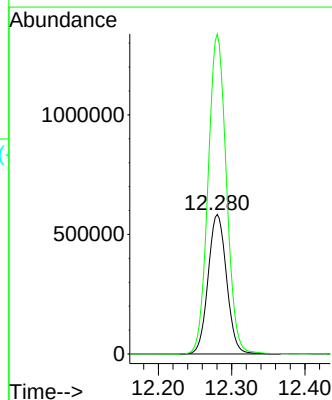
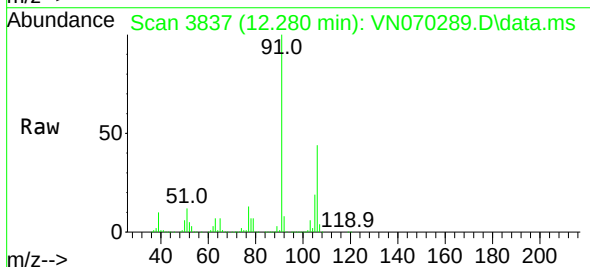
Instrument :  
MSVOA\_N  
ClientSampleId :  
MW-28DL

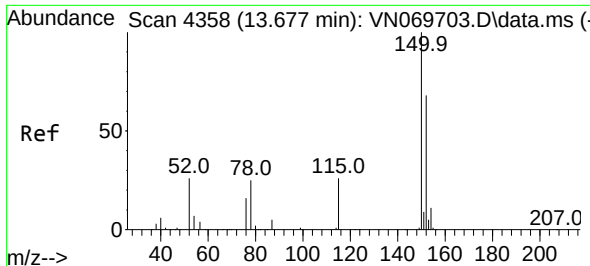
Tgt Ion:106 Resp: 1639759  
Ion Ratio Lower Upper  
106 100  
91 214.4 160.6 240.8



#69  
o-Xylene  
Concen: 42.182 ug/l  
RT: 12.280 min Scan# 3837  
Delta R.T. -0.002 min  
Lab File: VN070289.D  
Acq: 22 Dec 2021 14:13

Tgt Ion:106 Resp: 1019706  
Ion Ratio Lower Upper  
106 100  
91 227.8 105.8 317.3

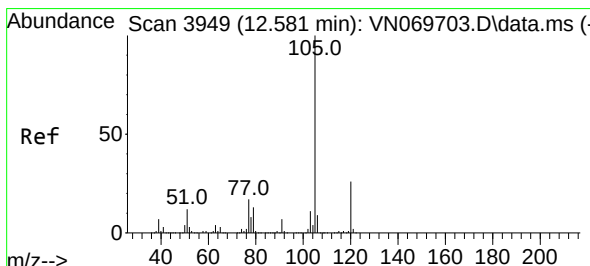
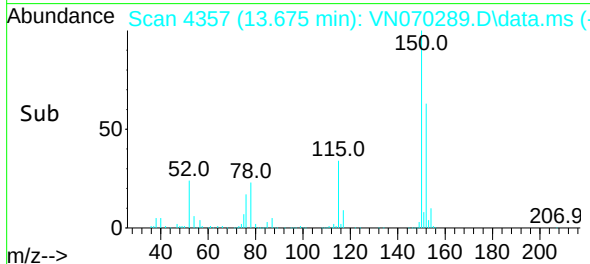
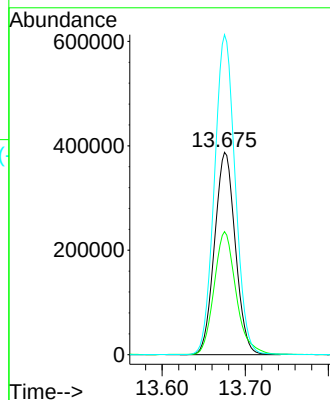
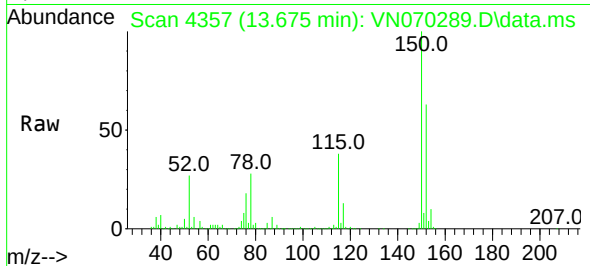




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.675 min Scan# 4358  
 Delta R.T. -0.002 min  
 Lab File: VN070289.D  
 Acq: 22 Dec 2021 14:13

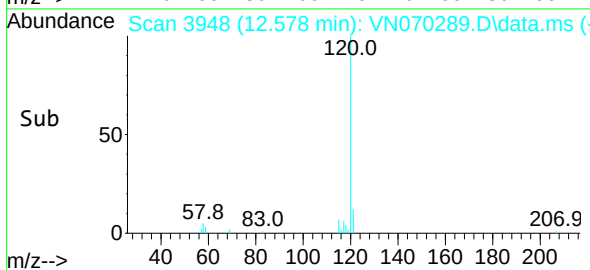
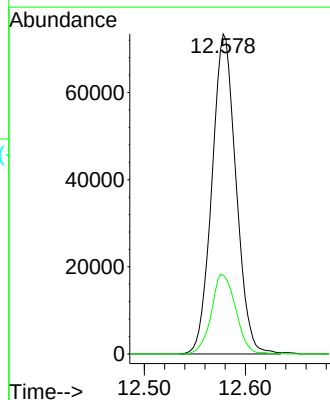
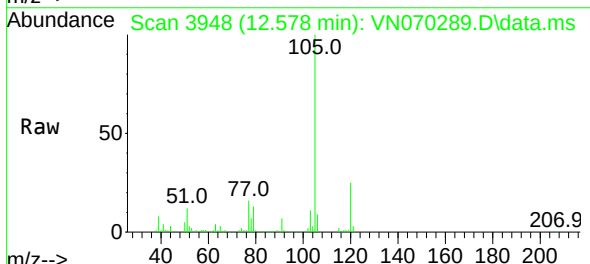
Instrument :  
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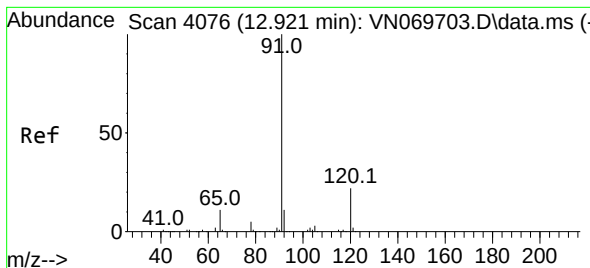
Tgt Ion:152 Resp: 674247  
 Ion Ratio Lower Upper  
 152 100  
 115 64.2 27.5 82.5  
 150 158.0 0.0 344.4



#73  
 Isopropylbenzene  
 Concen: 2.026 ug/l  
 RT: 12.578 min Scan# 3948  
 Delta R.T. -0.002 min  
 Lab File: VN070289.D  
 Acq: 22 Dec 2021 14:13

Tgt Ion:105 Resp: 121555  
 Ion Ratio Lower Upper  
 105 100  
 120 25.1 13.4 40.1





#78

n-propylbenzene

Concen: 3.311 ug/l

RT: 12.921 min Scan# 4076

Delta R.T. 0.000 min

Lab File: VN070289.D

Acq: 22 Dec 2021 14:13

Instrument :

MSVOA\_N

ClientSampleId :

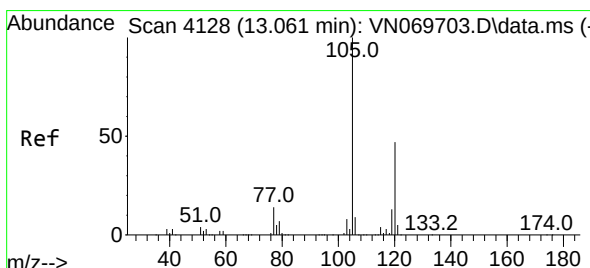
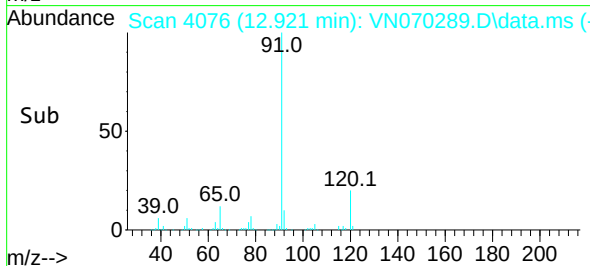
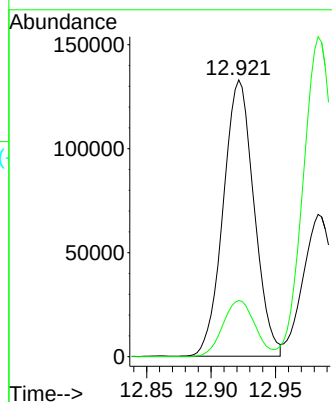
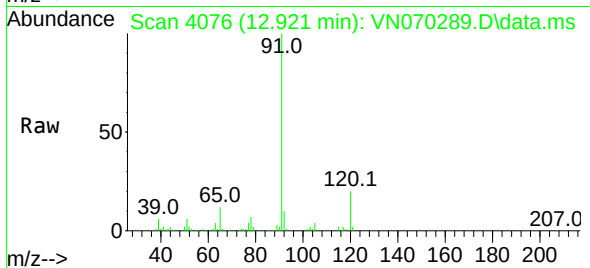
MW-28DL

Tgt Ion: 91 Resp: 221007

Ion Ratio Lower Upper

91 100

120 21.2 11.9 35.9



#80

1,3,5-Trimethylbenzene

Concen: 10.446 ug/l

RT: 13.061 min Scan# 4128

Delta R.T. 0.000 min

Lab File: VN070289.D

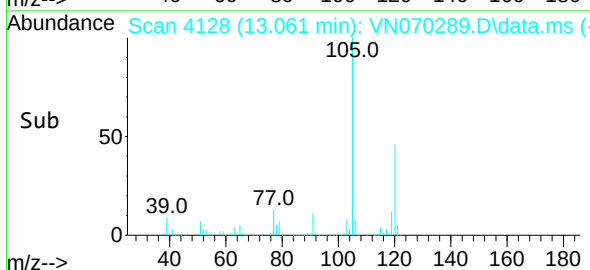
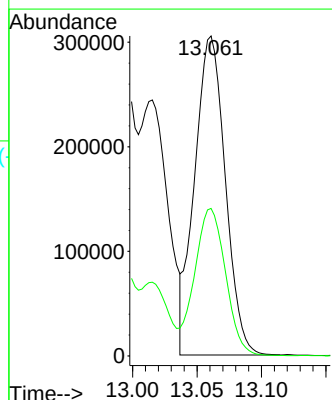
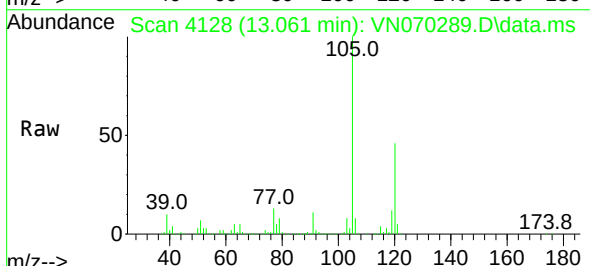
Acq: 22 Dec 2021 14:13

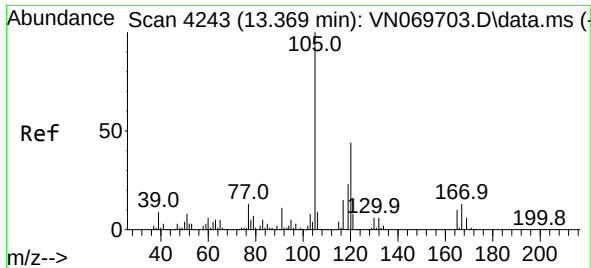
Tgt Ion: 105 Resp: 504355

Ion Ratio Lower Upper

105 100

120 46.4 24.6 73.6





#84  
 1,2,4-Trimethylbenzene  
 Concen: 35.930 ug/l  
 RT: 13.369 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VN070289.D  
 Acq: 22 Dec 2021 14:13

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 MW-28DL

Tgt Ion:105 Resp: 1652188  
 Ion Ratio Lower Upper  
 105 100  
 120 43.4 22.8 68.4

