

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020222\  
 Data File : VN070915.D  
 Acq On : 3 Feb 2022 1:48  
 Operator : JC/MD  
 Sample : N1342-11DL 20X  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 31528DL

Quant Time: Feb 03 06:01:25 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N020222W.M  
 Quant Title : SW846 8260  
 QLast Update : Wed Feb 02 15:30:39 2022  
 Response via : Initial Calibration

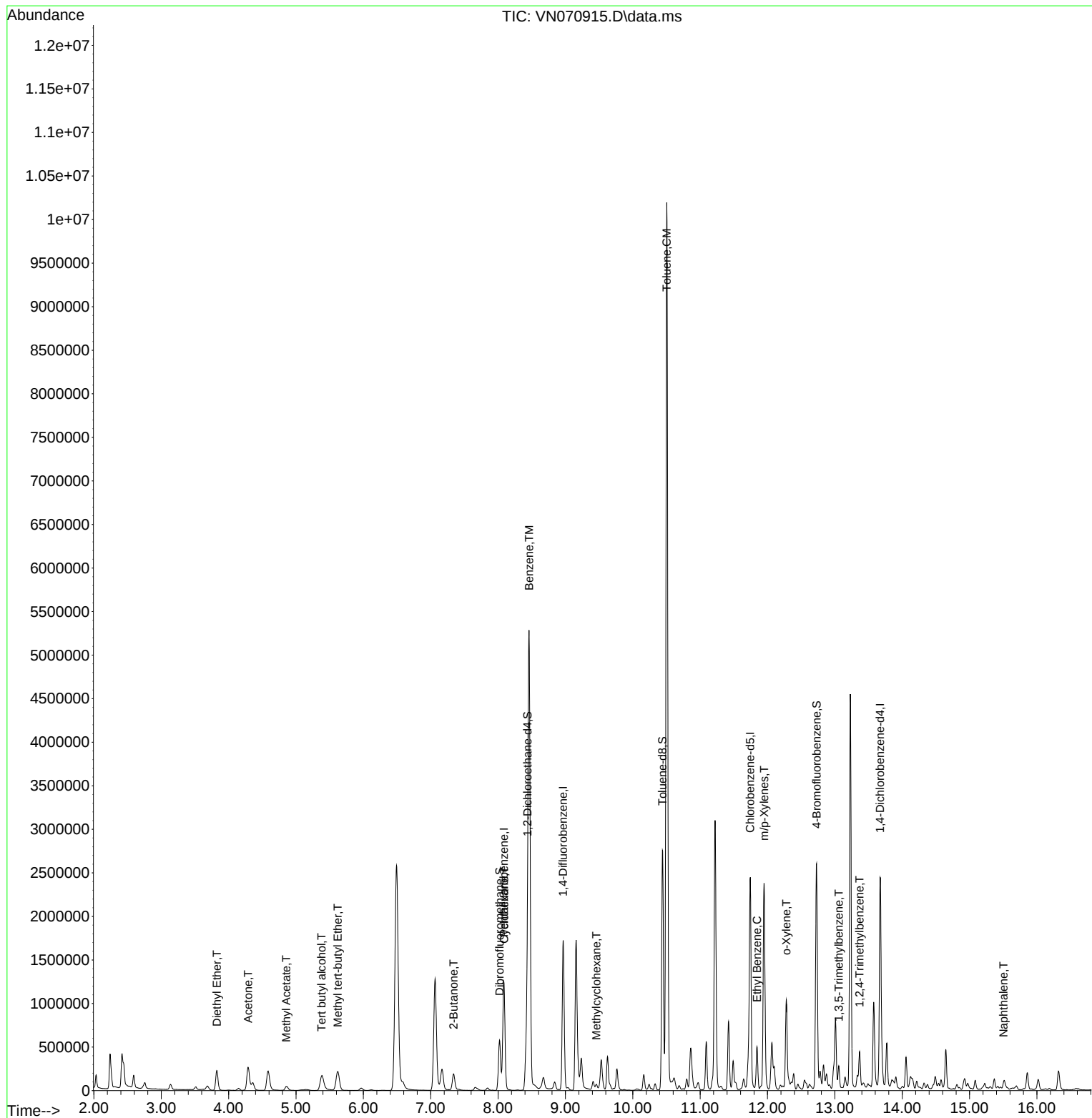
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Pentafluorobenzene       | 8.086  | 168   | 926282   | 50.000   | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene     | 8.965  | 114   | 1461074  | 50.000   | ug/l   | 0.00     |
| 63) Chlorobenzene-d5        | 11.744 | 117   | 1321185  | 50.000   | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4  | 13.672 | 152   | 648507   | 50.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 33) 1,2-Dichloroethane-d4   | 8.437  | 65    | 597857   | 47.683   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 61 - 141 | Recovery | =      | 95.360%  |
| 35) Dibromofluoromethane    | 8.021  | 113   | 425439   | 48.607   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 69 - 133 | Recovery | =      | 97.220%  |
| 50) Toluene-d8              | 10.440 | 98    | 1807017  | 50.282   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 65 - 126 | Recovery | =      | 100.560% |
| 62) 4-Bromofluorobenzene    | 12.731 | 95    | 688564   | 53.175   | ug/l   | 0.00     |
| Spiked Amount               | 50.000 | Range | 58 - 135 | Recovery | =      | 106.340% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 8) Diethyl Ether            | 3.827  | 74    | 124872   | 17.779   | ug/l   | 82       |
| 11) Tert butyl alcohol      | 5.380  | 59    | 267174   | 101.409  | ug/l   | 100      |
| 16) Acetone                 | 4.288  | 43    | 511346   | 68.205   | ug/l   | 98       |
| 18) Methyl Acetate          | 4.857  | 43    | 100558   | 5.465    | ug/l   | 94       |
| 19) Methyl tert-butyl Ether | 5.621  | 73    | 347357   | 9.746    | ug/l # | 88       |
| 25) 2-Butanone              | 7.340  | 43    | 321014   | 29.664   | ug/l   | 93       |
| 31) Cyclohexane             | 8.091  | 56    | 50334    | 2.363    | ug/l # | 60       |
| 39) Methylcyclohexane       | 9.459  | 83    | 26673    | 1.526    | ug/l   | 93       |
| 40) Benzene                 | 8.461  | 78    | 5219735  | 116.844  | ug/l   | 99       |
| 52) Toluene                 | 10.505 | 92    | 4422708  | 159.785  | ug/l   | 96       |
| 67) Ethyl Benzene           | 11.843 | 91    | 352464   | 6.992    | ug/l   | 95       |
| 68) m/p-Xylenes             | 11.950 | 106   | 728449   | 39.002   | ug/l   | 91       |
| 69) o-Xylene                | 12.280 | 106   | 267200   | 14.294   | ug/l   | 88       |
| 80) 1,3,5-Trimethylbenzene  | 13.058 | 105   | 133888   | 2.919    | ug/l   | 98       |
| 84) 1,2,4-Trimethylbenzene  | 13.366 | 105   | 247873   | 5.526    | ug/l   | 95       |
| 95) Naphthalene             | 15.504 | 128   | 41526    | 4.679    | ug/l # | 87       |
| -----                       |        |       |          |          |        |          |

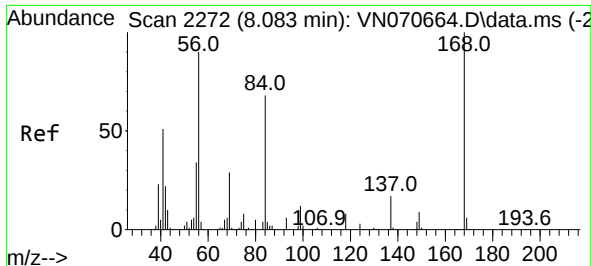
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN020222\  
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ALS Vial : 31 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
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Quant Time: Feb 03 06:01:25 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N020222W.M  
Quant Title : SW846 8260  
QLast Update : Wed Feb 02 15:30:39 2022  
Response via : Initial Calibration

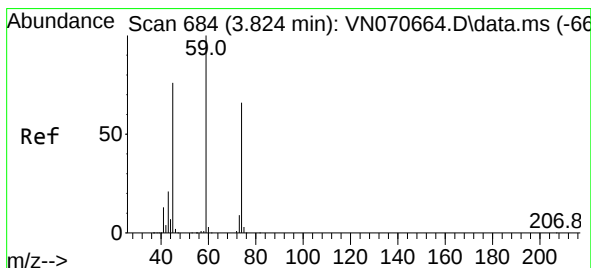
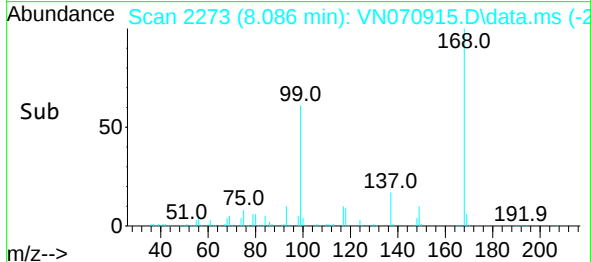
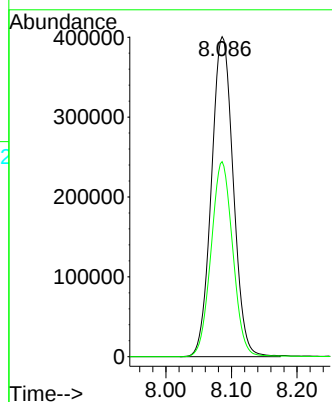
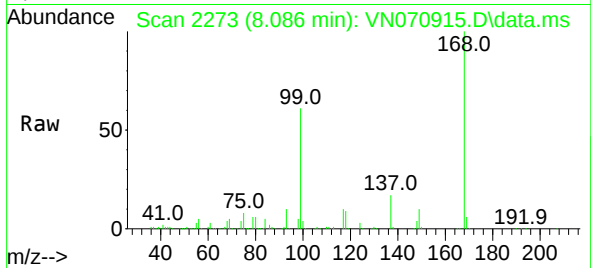




#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN070915.D  
Acq: 3 Feb 2022 1:48

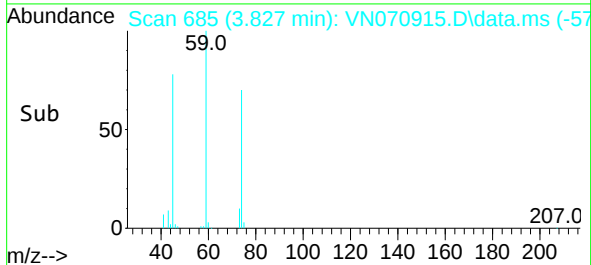
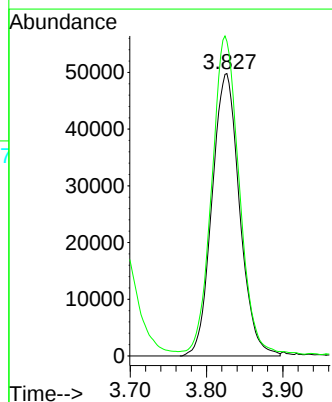
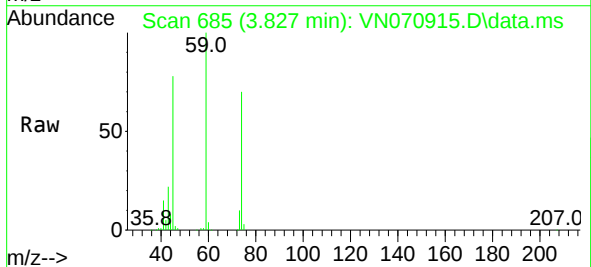
Instrument :  
MSVOA\_N  
ClientSampleId :  
31528DL

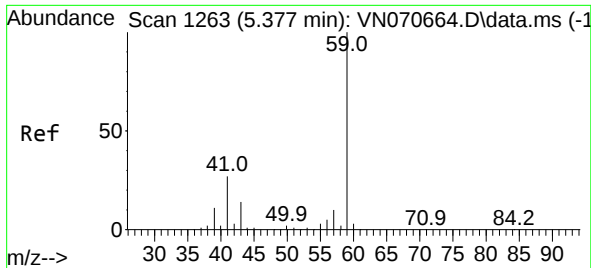
Tgt Ion:168 Resp: 926282  
Ion Ratio Lower Upper  
168 100  
99 60.9 41.3 61.9



#8  
Diethyl Ether  
Concen: 17.779 ug/l  
RT: 3.827 min Scan# 685  
Delta R.T. 0.006 min  
Lab File: VN070915.D  
Acq: 3 Feb 2022 1:48

Tgt Ion: 74 Resp: 124872  
Ion Ratio Lower Upper  
74 100  
45 112.0 47.0 141.2

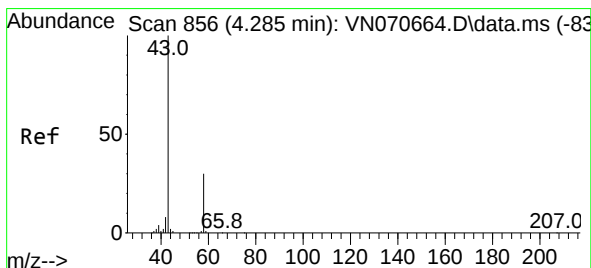
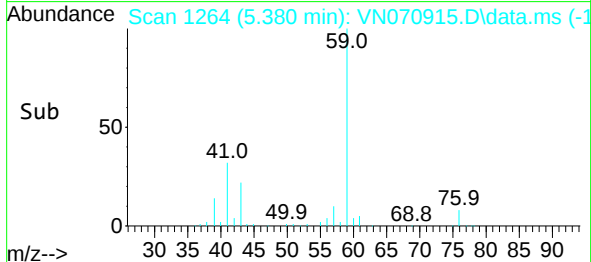
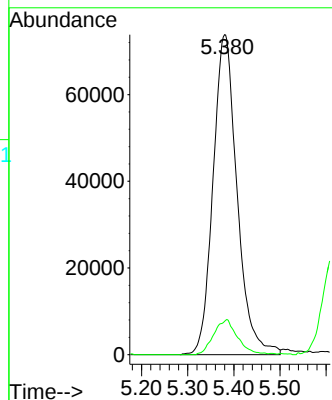
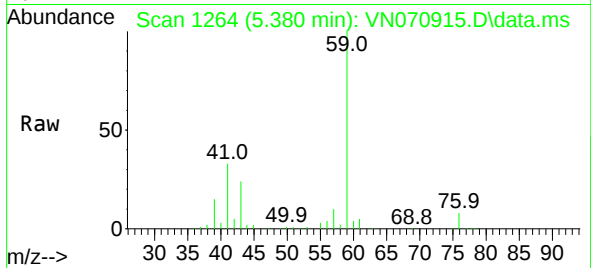




#11  
Tert butyl alcohol  
Concen: 101.409 ug/l  
RT: 5.380 min Scan# 11  
Delta R.T. -0.002 min  
Lab File: VN070915.D  
Acq: 3 Feb 2022 1:48

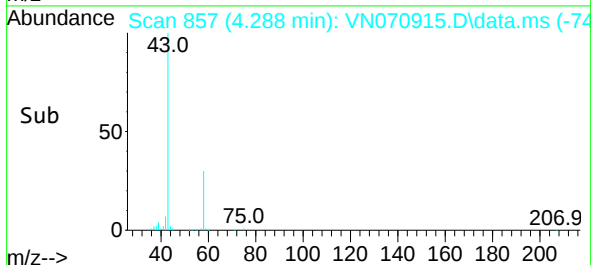
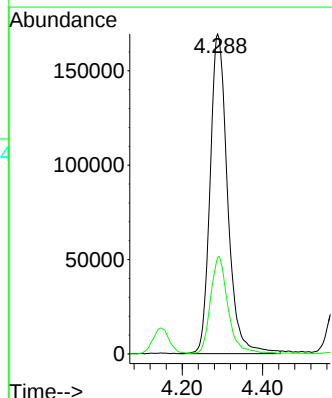
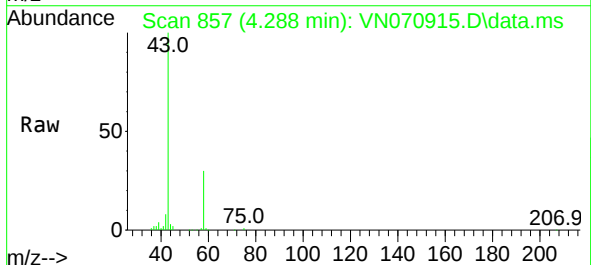
Instrument :  
MSVOA\_N  
ClientSampleId :  
31528DL

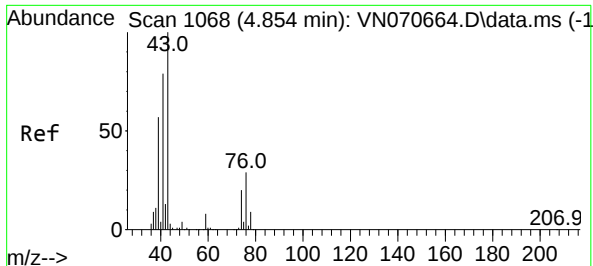
Tgt Ion: 59 Resp: 267174  
Ion Ratio Lower Upper  
59 100  
57 10.8 8.7 13.1



#16  
Acetone  
Concen: 68.205 ug/l  
RT: 4.288 min Scan# 857  
Delta R.T. 0.003 min  
Lab File: VN070915.D  
Acq: 3 Feb 2022 1:48

Tgt Ion: 43 Resp: 511346  
Ion Ratio Lower Upper  
43 100  
58 29.9 23.1 34.7





#18

Methyl Acetate

Concen: 5.465 ug/l

RT: 4.857 min Scan# 1069

Delta R.T. 0.003 min

Lab File: VN070915.D

Acq: 3 Feb 2022 1:48

Instrument :

MSVOA\_N

ClientSampleId :

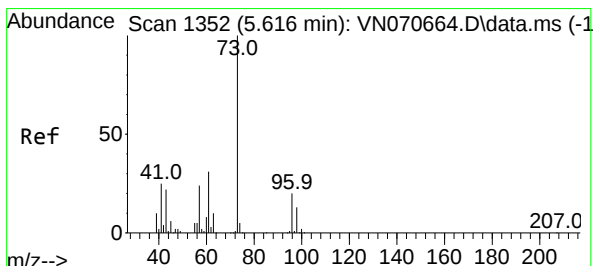
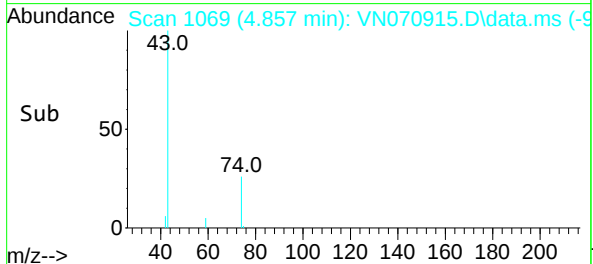
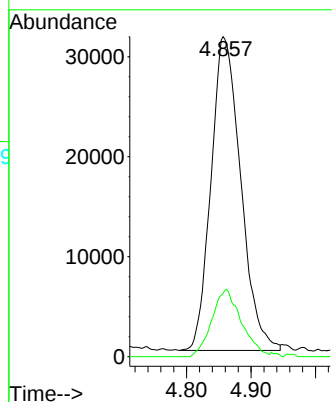
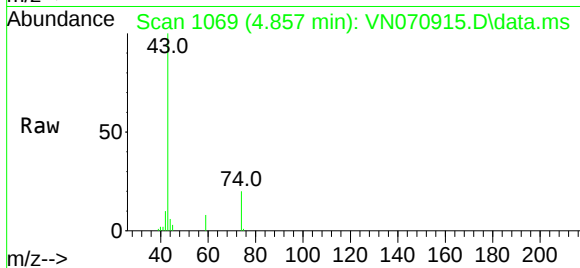
31528DL

Tgt Ion: 43 Resp: 100558

Ion Ratio Lower Upper

43 100

74 21.3 19.4 29.2



#19

Methyl tert-butyl Ether

Concen: 9.746 ug/l

RT: 5.621 min Scan# 1354

Delta R.T. 0.005 min

Lab File: VN070915.D

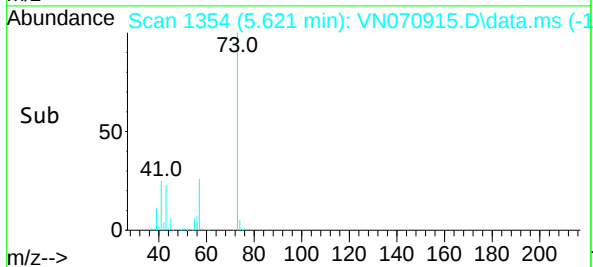
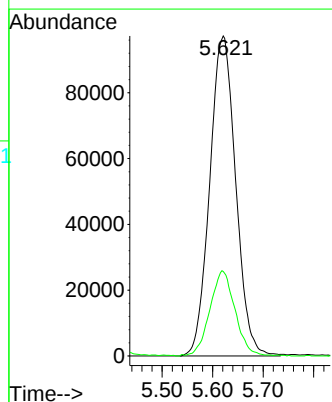
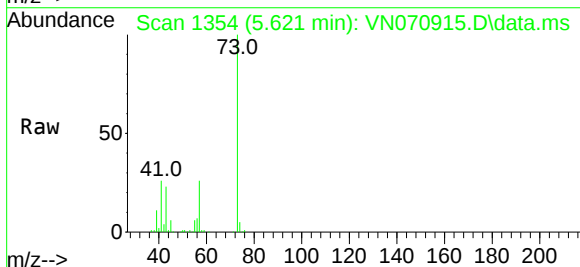
Acq: 3 Feb 2022 1:48

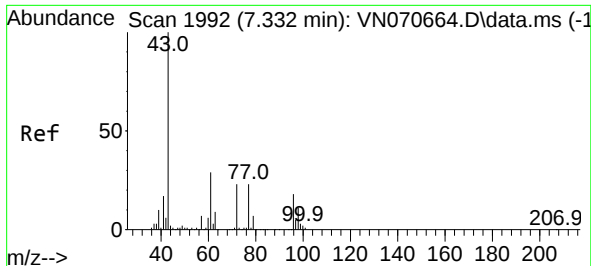
Tgt Ion: 73 Resp: 347357

Ion Ratio Lower Upper

73 100

57 26.4 16.8 25.2#





#25

2-Butanone

Concen: 29.664 ug/l

RT: 7.340 min Scan# 1992

Delta R.T. 0.005 min

Lab File: VN070915.D

Acq: 3 Feb 2022 1:48

Instrument :

MSVOA\_N

ClientSampleId :

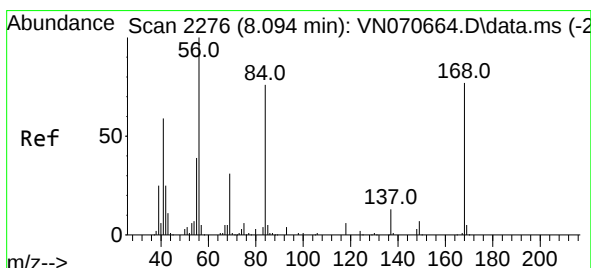
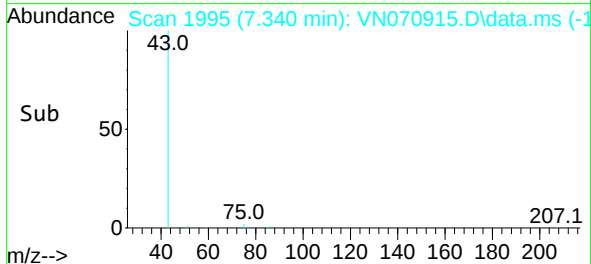
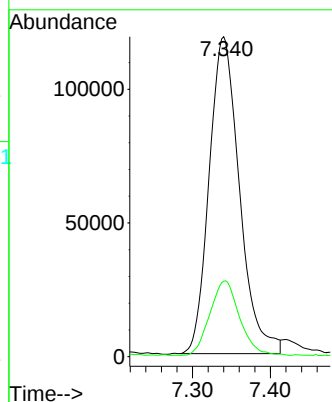
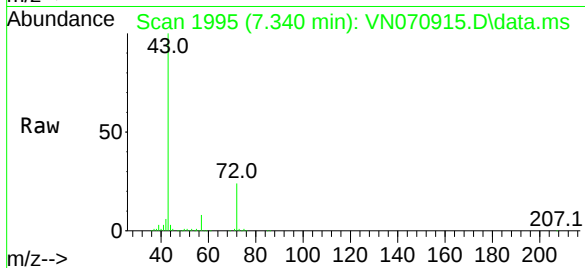
31528DL

Tgt Ion: 43 Resp: 321014

Ion Ratio Lower Upper

43 100

72 23.4 21.7 32.5



#31

Cyclohexane

Concen: 2.363 ug/l

RT: 8.091 min Scan# 2275

Delta R.T. -0.003 min

Lab File: VN070915.D

Acq: 3 Feb 2022 1:48

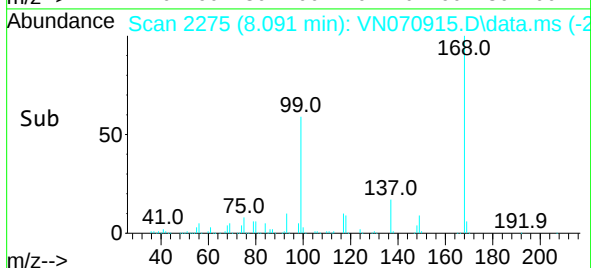
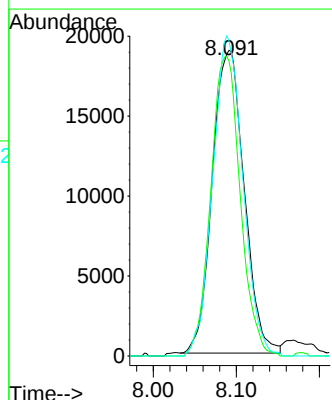
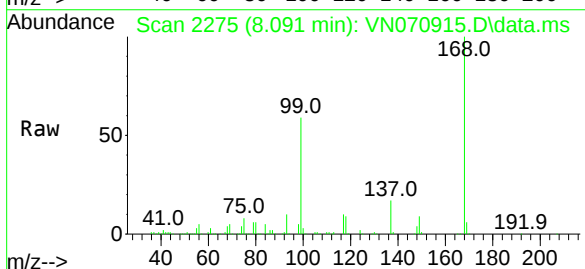
Tgt Ion: 56 Resp: 50334

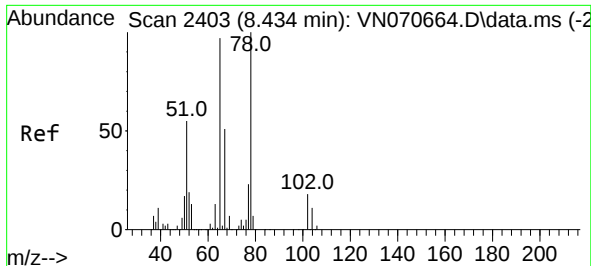
Ion Ratio Lower Upper

56 100

69 97.4 27.1 40.7#

84 104.1 73.4 110.0

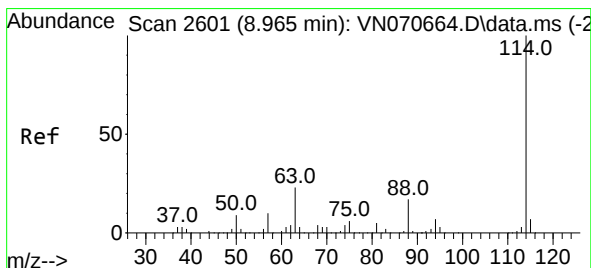
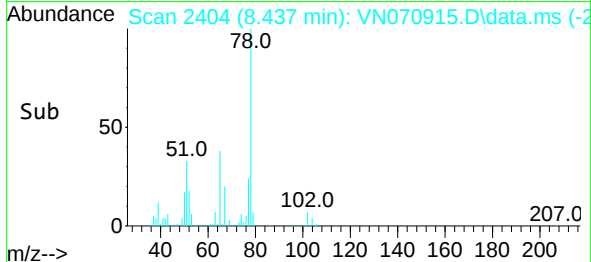
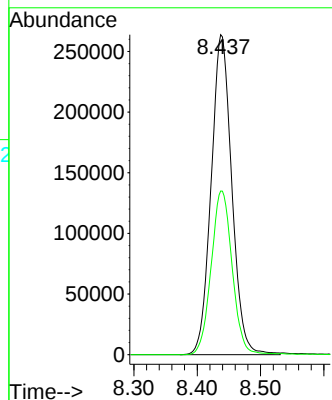
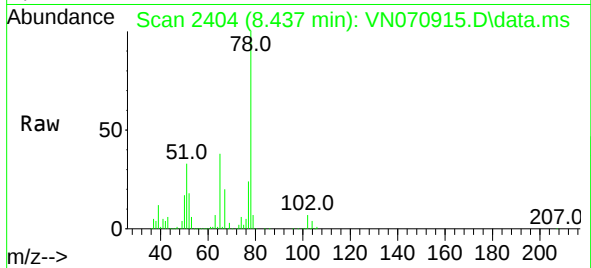




#33  
 1,2-Dichloroethane-d4  
 Concen: 47.683 ug/l  
 RT: 8.437 min Scan# 2403  
 Delta R.T. 0.000 min  
 Lab File: VN070915.D  
 Acq: 3 Feb 2022 1:48

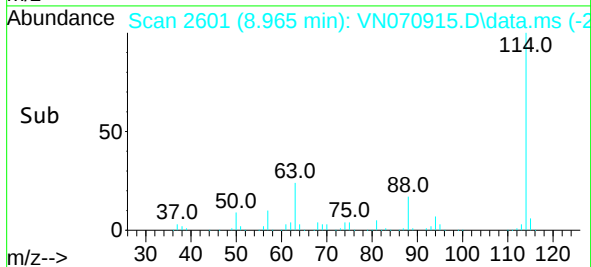
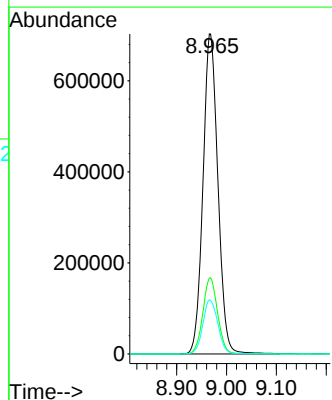
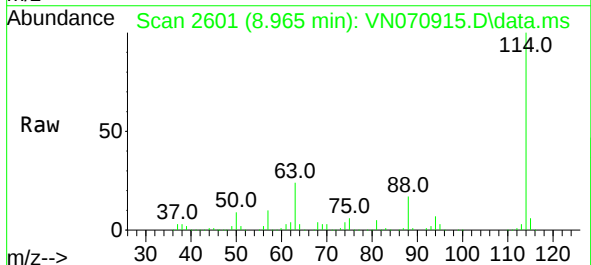
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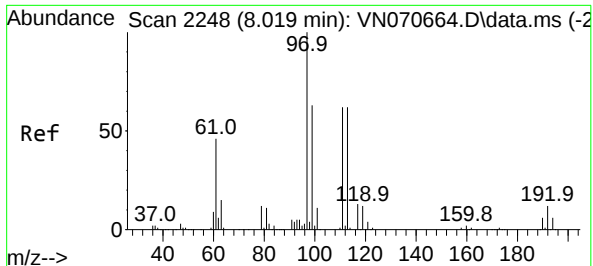
Tgt Ion: 65 Resp: 597857  
 Ion Ratio Lower Upper  
 65 100  
 67 52.0 0.0 103.0



#34  
 1,4-Difluorobenzene  
 Concen: 50.000 ug/l  
 RT: 8.965 min Scan# 2601  
 Delta R.T. -0.000 min  
 Lab File: VN070915.D  
 Acq: 3 Feb 2022 1:48

Tgt Ion: 114 Resp: 1461074  
 Ion Ratio Lower Upper  
 114 100  
 63 23.7 0.0 37.8  
 88 16.9 0.0 27.4





#35

Dibromofluoromethane

Concen: 48.607 ug/l

RT: 8.021 min Scan# 21

Delta R.T. 0.000 min

Lab File: VN070915.D

Acq: 3 Feb 2022 1:48

Instrument :

MSVOA\_N

ClientSampleId :

31528DL

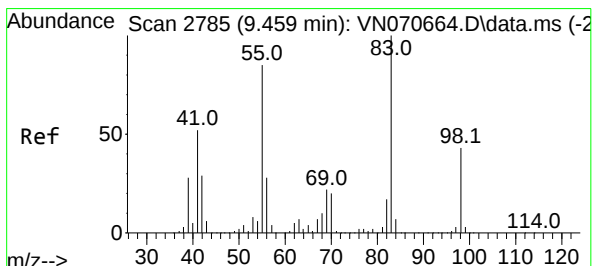
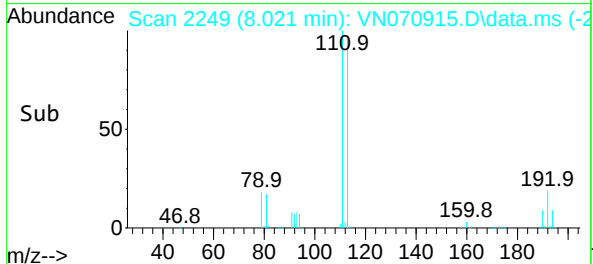
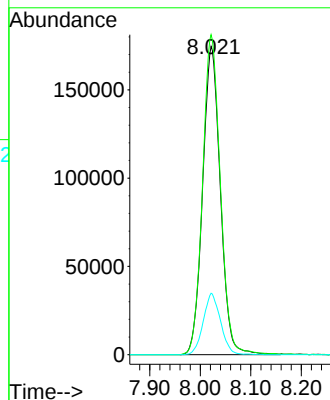
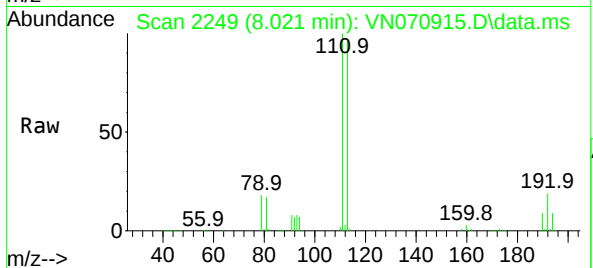
Tgt Ion:113 Resp: 425439

Ion Ratio Lower Upper

113 100

111 103.7 82.2 123.2

192 19.4 16.9 25.3



#39

Methylcyclohexane

Concen: 1.526 ug/l

RT: 9.459 min Scan# 2785

Delta R.T. -0.000 min

Lab File: VN070915.D

Acq: 3 Feb 2022 1:48

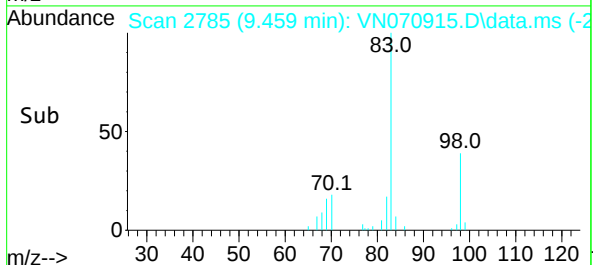
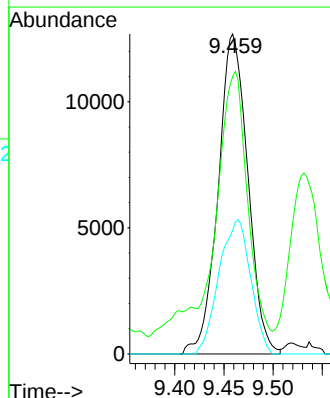
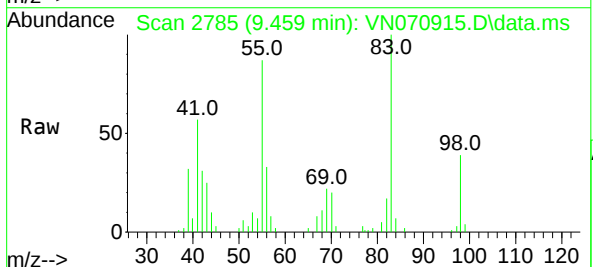
Tgt Ion: 83 Resp: 26673

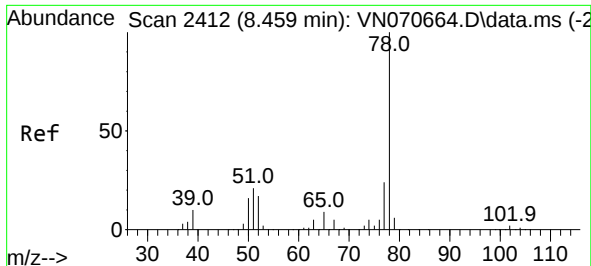
Ion Ratio Lower Upper

83 100

55 75.2 58.1 87.1

98 38.7 38.4 57.6

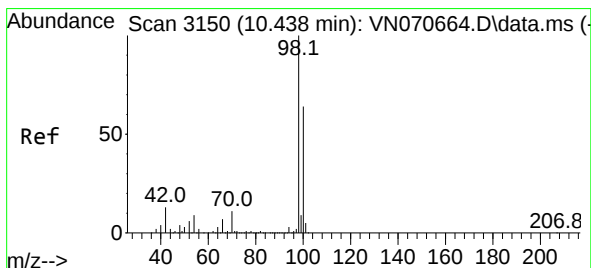
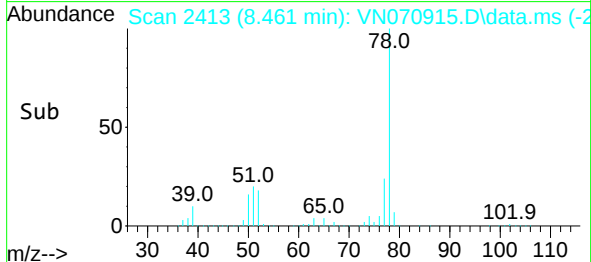
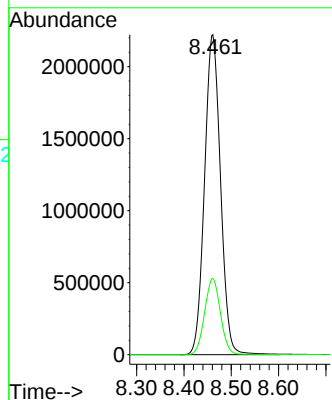
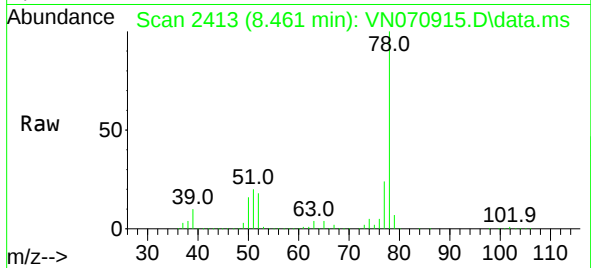




#40  
Benzene  
Concen: 116.844 ug/l  
RT: 8.461 min Scan# 2412  
Delta R.T. 0.002 min  
Lab File: VN070915.D  
Acq: 3 Feb 2022 1:48

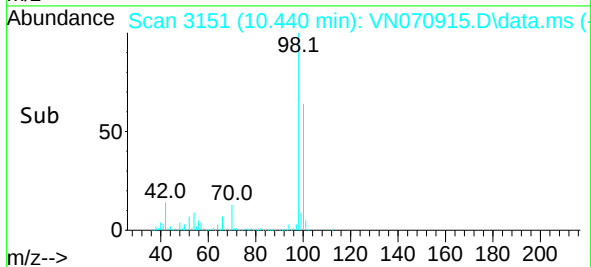
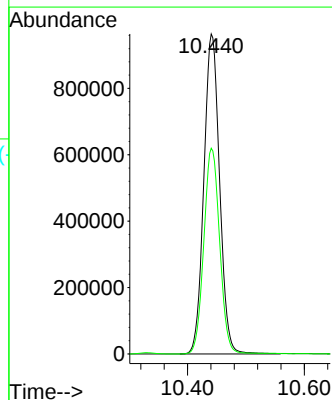
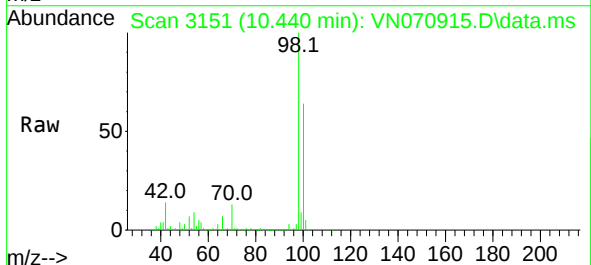
Instrument :  
MSVOA\_N  
ClientSampleId :  
31528DL

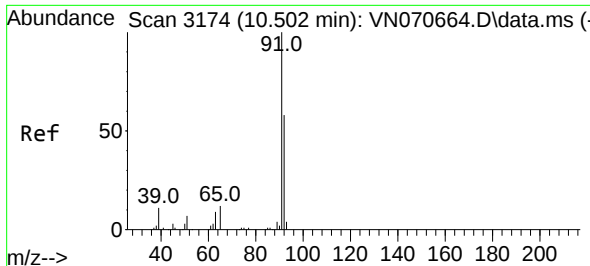
Tgt Ion: 78 Resp: 5219735  
Ion Ratio Lower Upper  
78 100  
77 23.9 18.6 27.8



#50  
Toluene-d8  
Concen: 50.282 ug/l  
RT: 10.440 min Scan# 3151  
Delta R.T. -0.001 min  
Lab File: VN070915.D  
Acq: 3 Feb 2022 1:48

Tgt Ion: 98 Resp: 1807017  
Ion Ratio Lower Upper  
98 100  
100 64.5 50.4 75.6

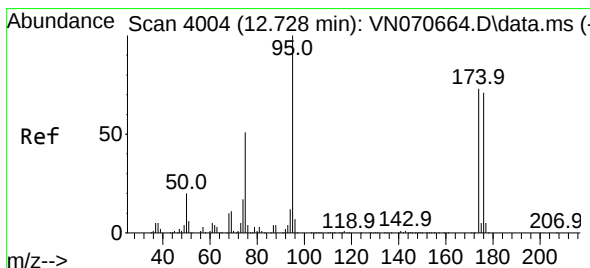
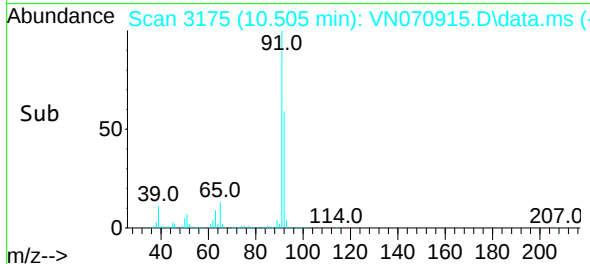
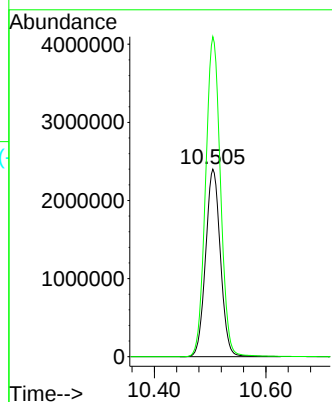
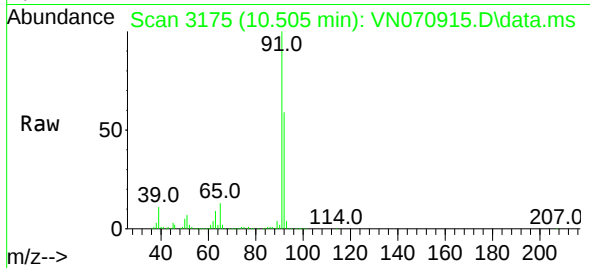




#52  
Toluene  
Concen: 159.785 ug/l  
RT: 10.505 min Scan# 3174  
Delta R.T. -0.000 min  
Lab File: VN070915.D  
Acq: 3 Feb 2022 1:48

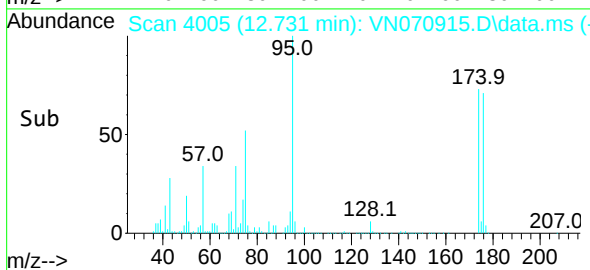
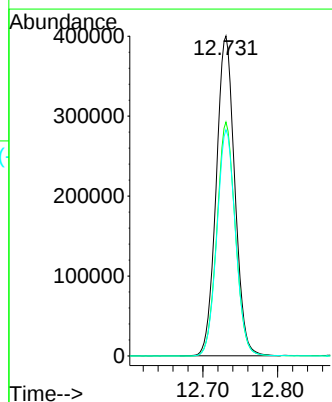
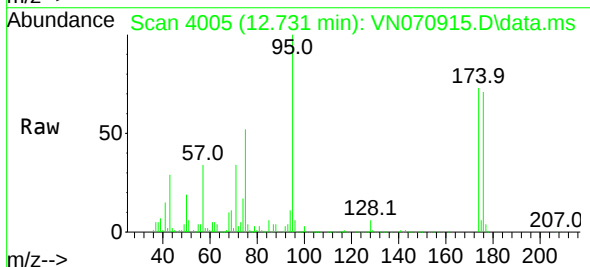
Instrument :  
MSVOA\_N  
ClientSampleId :  
31528DL

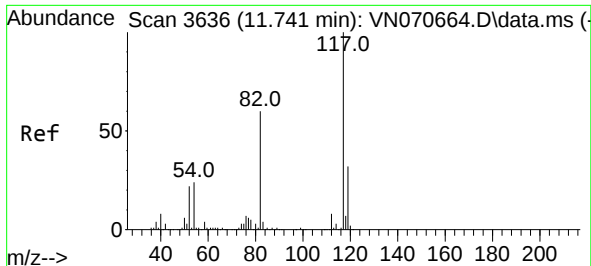
Tgt Ion: 92 Resp: 4422708  
Ion Ratio Lower Upper  
92 100  
91 172.2 142.0 213.0



#62  
4-Bromofluorobenzene  
Concen: 53.175 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.000 min  
Lab File: VN070915.D  
Acq: 3 Feb 2022 1:48

Tgt Ion: 95 Resp: 688564  
Ion Ratio Lower Upper  
95 100  
174 72.8 0.0 187.2  
176 70.9 0.0 181.4

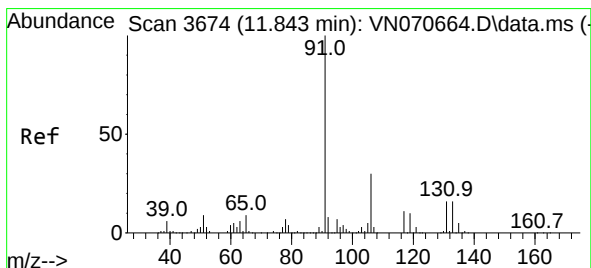
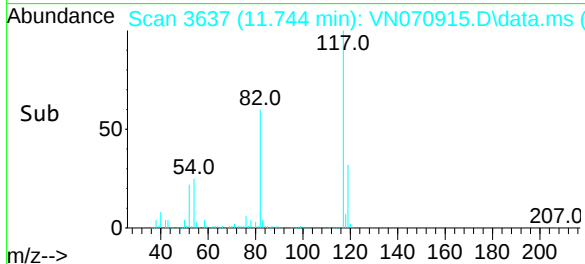
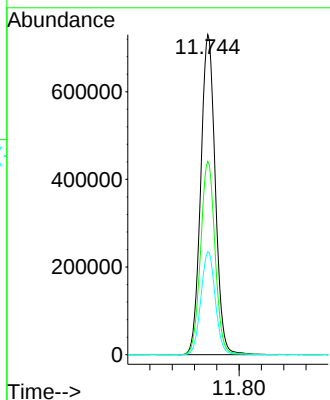
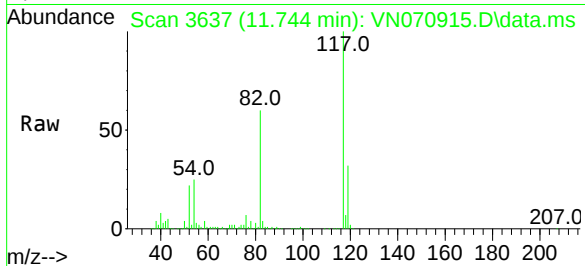




#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.744 min Scan# 3637  
Delta R.T. -0.000 min  
Lab File: VN070915.D  
Acq: 3 Feb 2022 1:48

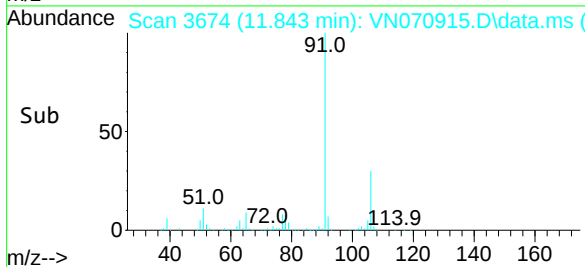
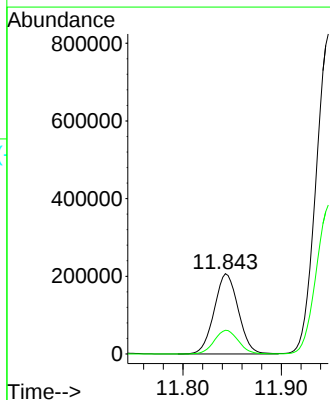
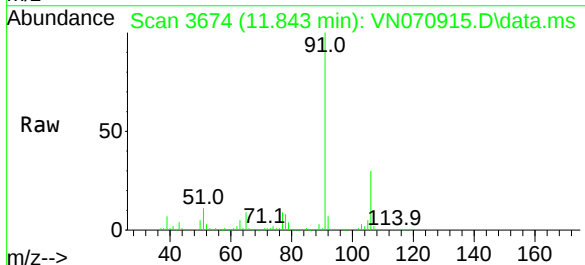
Instrument :  
MSVOA\_N  
ClientSampleId :  
31528DL

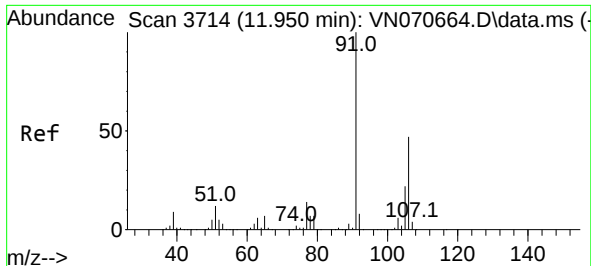
Tgt Ion:117 Resp: 1321185  
Ion Ratio Lower Upper  
117 100  
82 60.4 42.4 63.6  
119 32.2 25.4 38.2



#67  
Ethyl Benzene  
Concen: 6.992 ug/l  
RT: 11.843 min Scan# 3674  
Delta R.T. 0.000 min  
Lab File: VN070915.D  
Acq: 3 Feb 2022 1:48

Tgt Ion: 91 Resp: 352464  
Ion Ratio Lower Upper  
91 100  
106 29.5 25.7 38.5

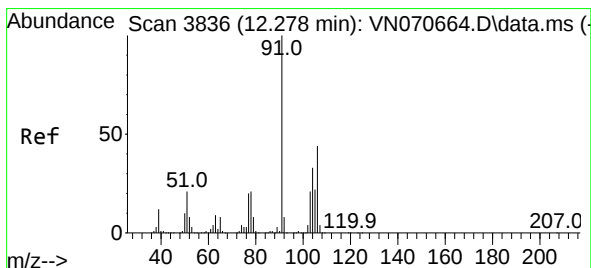
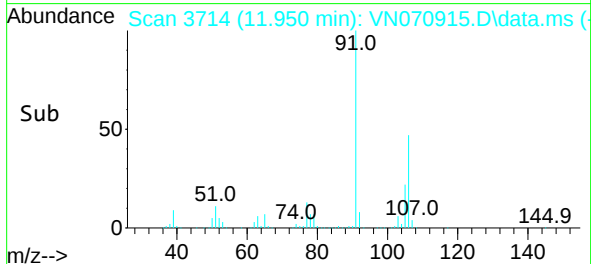
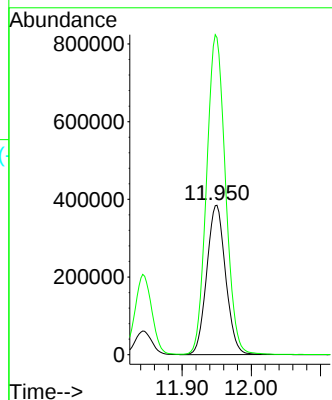
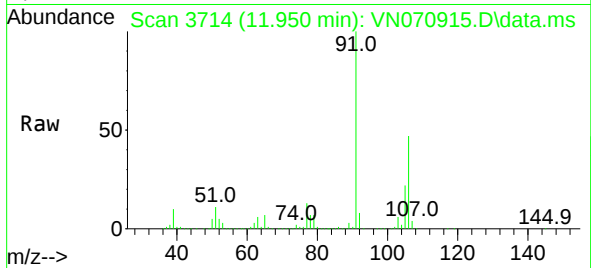




#68  
m/p-Xylenes  
Concen: 39.002 ug/l  
RT: 11.950 min Scan# 31  
Delta R.T. -0.003 min  
Lab File: VN070915.D  
Acq: 3 Feb 2022 1:48

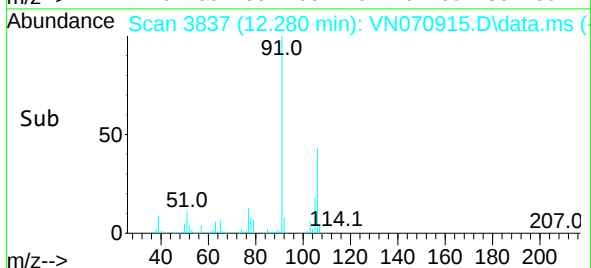
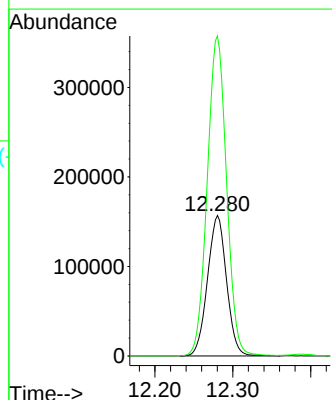
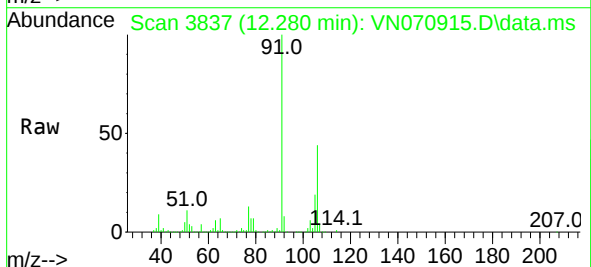
Instrument :  
MSVOA\_N  
ClientSampleId :  
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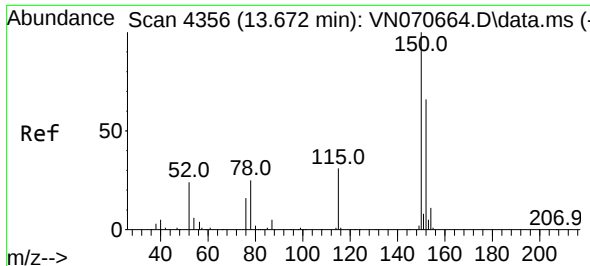
Tgt Ion:106 Resp: 728449  
Ion Ratio Lower Upper  
106 100  
91 214.3 160.6 240.8



#69  
o-Xylene  
Concen: 14.294 ug/l  
RT: 12.280 min Scan# 3837  
Delta R.T. 0.000 min  
Lab File: VN070915.D  
Acq: 3 Feb 2022 1:48

Tgt Ion:106 Resp: 267200  
Ion Ratio Lower Upper  
106 100  
91 230.5 105.8 317.3

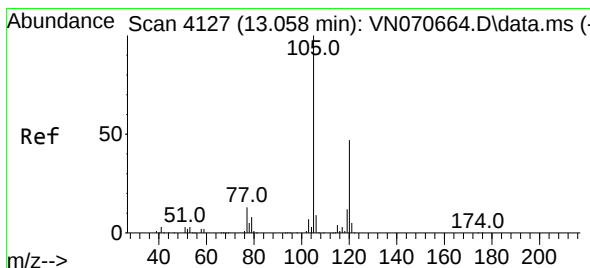
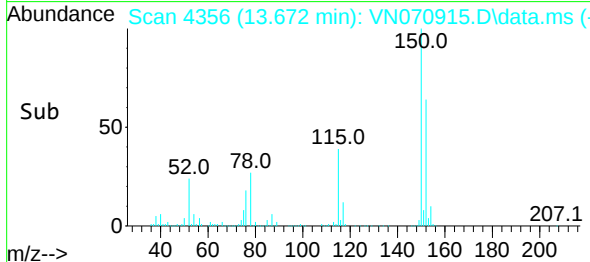
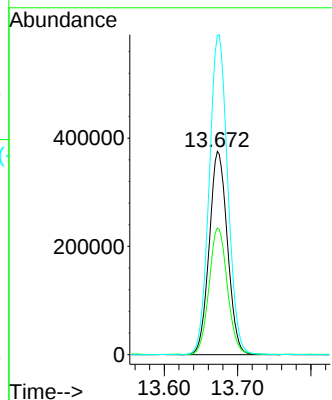
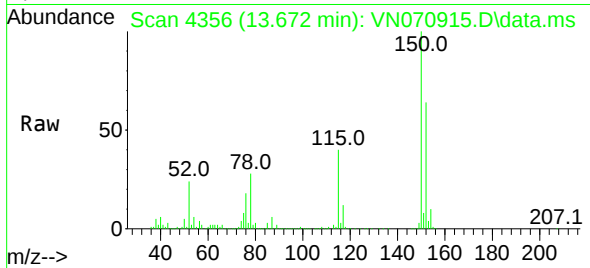




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 13.672 min Scan# 41  
 Delta R.T. 0.000 min  
 Lab File: VN070915.D  
 Acq: 3 Feb 2022 1:48

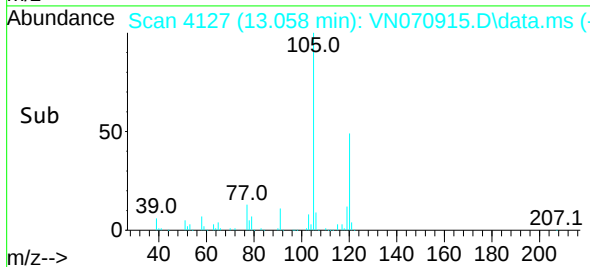
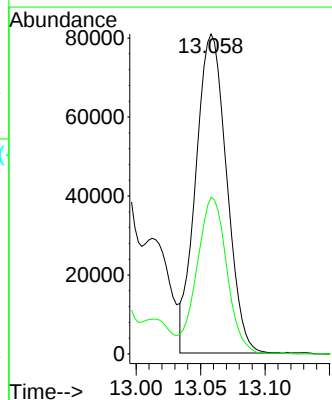
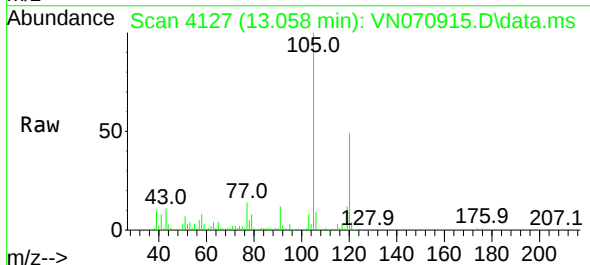
Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 31528DL

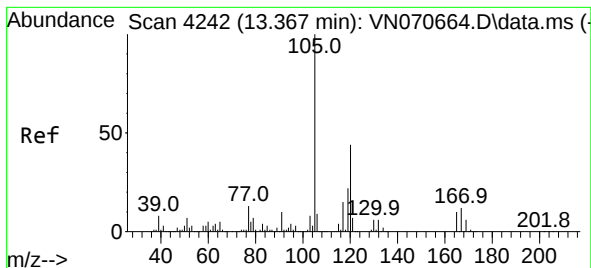
Tgt Ion:152 Resp: 648507  
 Ion Ratio Lower Upper  
 152 100  
 115 62.4 27.5 82.5  
 150 160.2 0.0 344.4



#80  
 1,3,5-Trimethylbenzene  
 Concen: 2.919 ug/l  
 RT: 13.058 min Scan# 4127  
 Delta R.T. 0.000 min  
 Lab File: VN070915.D  
 Acq: 3 Feb 2022 1:48

Tgt Ion:105 Resp: 133888  
 Ion Ratio Lower Upper  
 105 100  
 120 47.6 24.6 73.6





#84

1,2,4-Trimethylbenzene

Concen: 5.526 ug/l

RT: 13.366 min Scan# 41

Delta R.T. -0.001 min

Lab File: VN070915.D

Acq: 3 Feb 2022 1:48

Instrument :

MSVOA\_N

ClientSampleId :

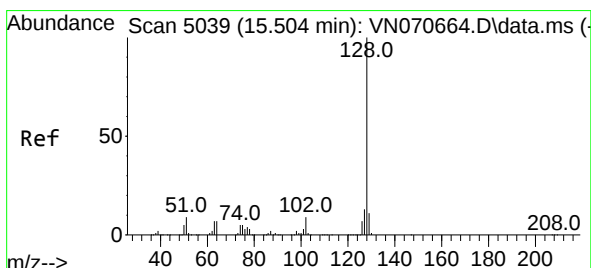
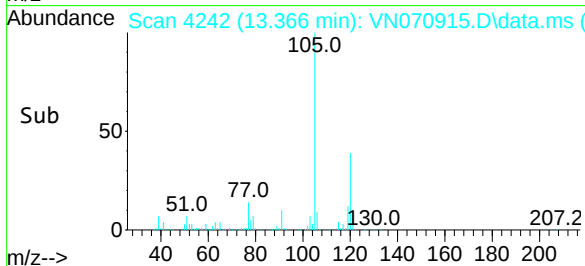
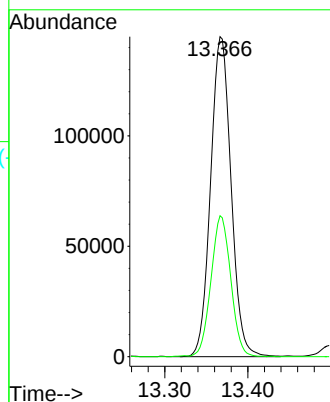
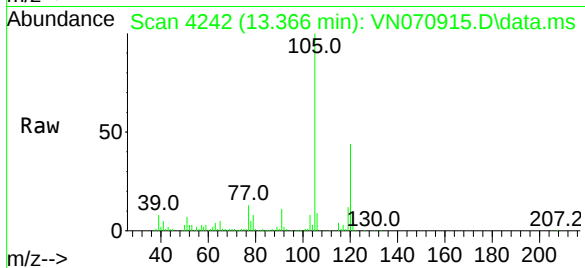
31528DL

Tgt Ion:105 Resp: 247873

Ion Ratio Lower Upper

105 100

120 42.6 22.8 68.4



#95

Naphthalene

Concen: 4.679 ug/l

RT: 15.504 min Scan# 5039

Delta R.T. 0.000 min

Lab File: VN070915.D

Acq: 3 Feb 2022 1:48

Tgt Ion:128 Resp: 41526

Ion Ratio Lower Upper

128 100

127 5.3 10.5 15.7#

129 9.4 8.7 13.1

