

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN011222\  
 Data File : VN070594.D  
 Acq On : 12 Jan 2022 18:33  
 Operator : JC/MD  
 Sample : PB141975ZHE#01  
 Misc : 5.00mL/MSVOA\_N/WATER  
 ALS Vial : 18 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :

Quant Time: Jan 13 04:28:06 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122721W.M  
 Quant Title : SW846 8260  
 QLast Update : Mon Dec 27 18:47:12 2021  
 Response via : Initial Calibration

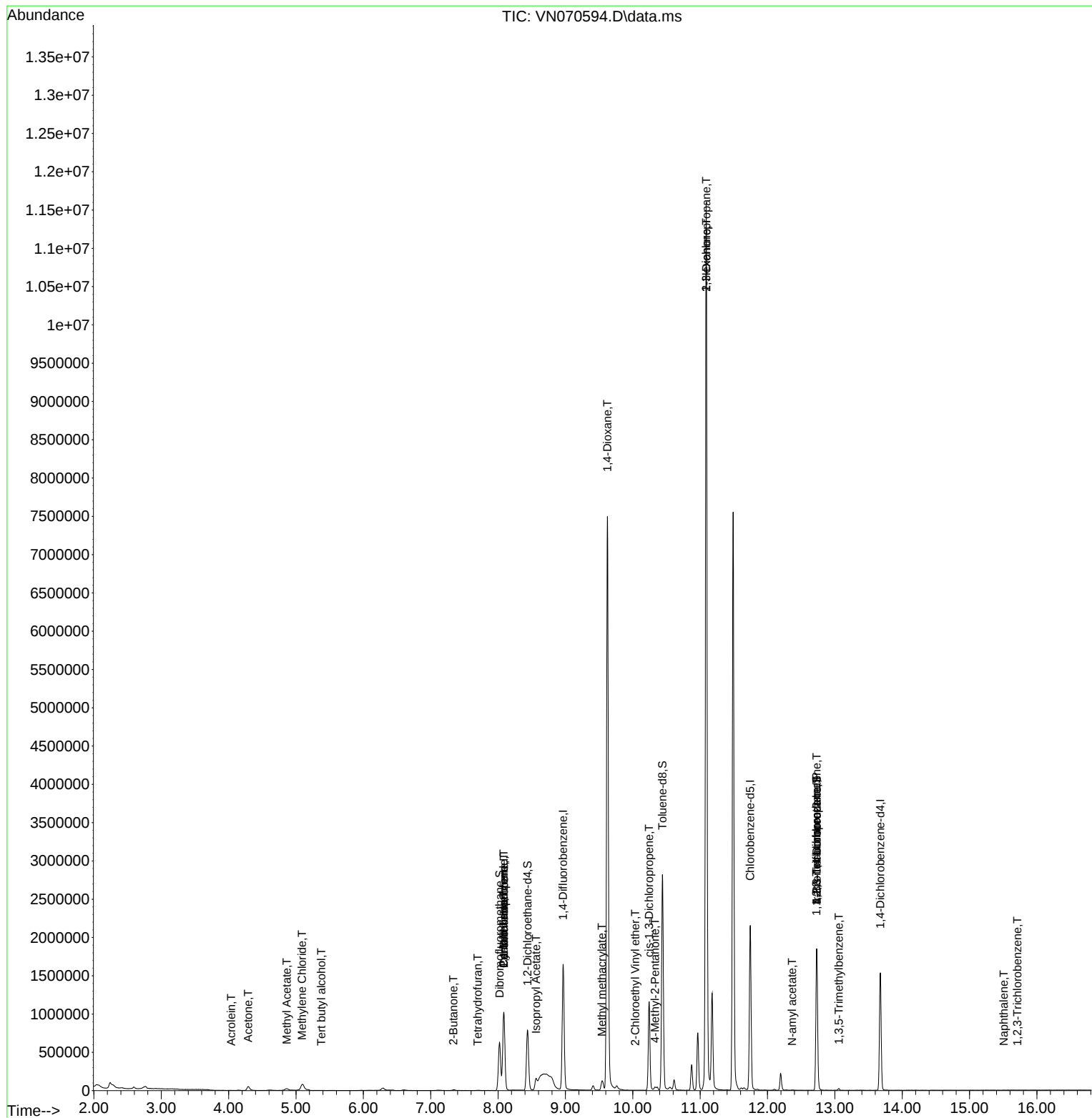
| Compound                      | R.T.           | QIon | Response            | Conc    | Units  | Dev(Min) |
|-------------------------------|----------------|------|---------------------|---------|--------|----------|
| -----                         |                |      |                     |         |        |          |
| Internal Standards            |                |      |                     |         |        |          |
| 1) Pentafluorobenzene         | 8.086          | 168  | 791602              | 50.000  | ug/l   | 0.00     |
| 34) 1,4-Difluorobenzene       | 8.965          | 114  | 1391412             | 50.000  | ug/l   | 0.00     |
| 63) Chlorobenzene-d5          | 11.744         | 117  | 1238608             | 50.000  | ug/l   | 0.00     |
| 72) 1,4-Dichlorobenzene-d4    | 13.675         | 152  | 429855              | 50.000  | ug/l   | 0.00     |
|                               |                |      |                     |         |        |          |
| System Monitoring Compounds   |                |      |                     |         |        |          |
| 33) 1,2-Dichloroethane-d4     | 8.437          | 65   | 660040              | 57.991  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 61 - 141 |      | Recovery = 115.980% |         |        |          |
| 35) Dibromofluoromethane      | 8.021          | 113  | 466704              | 55.436  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 69 - 133 |      | Recovery = 110.880% |         |        |          |
| 50) Toluene-d8                | 10.440         | 98   | 1916734             | 55.733  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 65 - 126 |      | Recovery = 111.460% |         |        |          |
| 62) 4-Bromofluorobenzene      | 12.731         | 95   | 692335              | 55.737  | ug/l   | 0.00     |
| Spiked Amount 50.000          | Range 58 - 135 |      | Recovery = 111.480% |         |        |          |
|                               |                |      |                     |         |        |          |
| Target Compounds              |                |      |                     |         |        | Qvalue   |
| 11) Tert butyl alcohol        | 5.377          | 59   | 688                 | 0.363   | ug/l # | 71       |
| 13) Acrolein                  | 4.038          | 56   | 607                 | 0.395   | ug/l # | 70       |
| 16) Acetone                   | 4.291          | 43   | 91098               | 12.330  | ug/l   | 96       |
| 18) Methyl Acetate            | 4.862          | 43   | 49316               | 2.307   | ug/l   | 91       |
| 20) Methylene Chloride        | 5.090          | 84   | 57427               | 5.618   | ug/l   | 87       |
| 25) 2-Butanone                | 7.337          | 43   | 7611                | 0.818   | ug/l # | 86       |
| 29) Tetrahydrofuran           | 7.697          | 42   | 3104                | 0.559   | ug/l # | 34       |
| 31) Cyclohexane               | 8.083          | 56   | 18084               | 1.007   | ug/l # | 2        |
| 36) 1,1-Dichloropropene       | 8.086          | 75   | 62936               | 4.519   | ug/l # | 48       |
| 38) Carbon Tetrachloride      | 8.083          | 117  | 78187               | 5.879   | ug/l # | 16       |
| 43) Isopropyl Acetate         | 8.563          | 43   | 191651              | 6.734   | ug/l # | 80       |
| 48) Methyl methacrylate       | 9.542          | 41   | 37715               | 2.778   | ug/l # | 8        |
| 49) 1,4-Dioxane               | 9.622          | 88   | 930                 | 4.680   | ug/l # | 1        |
| 51) 4-Methyl-2-Pentanone      | 10.330         | 43   | 20491               | 1.146   | ug/l # | 79       |
| 54) cis-1,3-Dichloropropene   | 10.242         | 75   | 199498              | 12.002  | ug/l # | 62       |
| 57) 1,3-Dichloropropane       | 11.089         | 76   | 115115              | 6.365   | ug/l # | 43       |
| 58) 2-Chloroethyl Vinyl ether | 10.035         | 63   | 131                 | 18.541  | ug/l # | 45       |
| 59) 2-Hexanone                | 11.089         | 43   | 1951574             | 149.639 | ug/l # | 49       |
| 74) N-amyl acetate            | 12.363         | 43   | 4192                | 0.250   | ug/l # | 48       |
| 75) 1,1,2,2-Tetrachloroethane | 12.725         | 83   | 381                 | 0.473   | ug/l # | 1        |
| 76) 1,2,3-Trichloropropane    | 12.731         | 75   | 356040              | 29.182  | ug/l # | 1        |
| 80) 1,3,5-Trimethylbenzene    | 13.061         | 105  | 9984                | 0.312   | ug/l   | 99       |
| 81) trans-1,4-Dichloro-2-b... | 12.731         | 75   | 356040              | 101.197 | ug/l # | 5        |
| 95) Naphthalene               | 15.507         | 128  | 1574                | 1.874   | ug/l # | 69       |
| 96) 1,2,3-Trichlorobenzene    | 15.710         | 180  | 50                  | 0.833   | ug/l # | 12       |
| -----                         |                |      |                     |         |        |          |

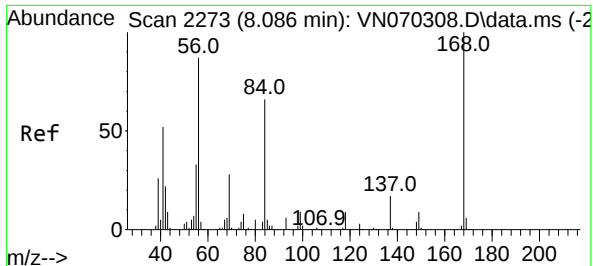
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ALS Vial : 18 Sample Multiplier: 1

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ClientSampleId :

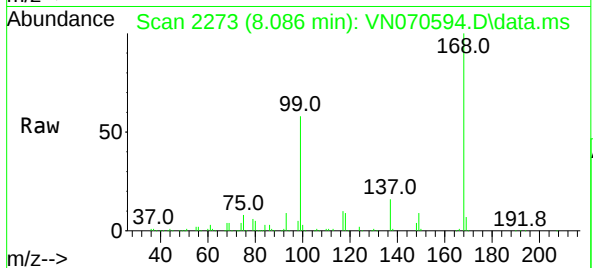
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\82N122721W.M  
Quant Title : SW846 8260  
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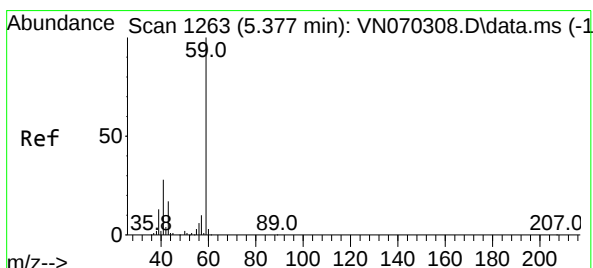
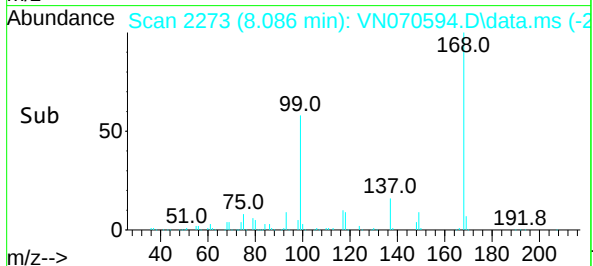
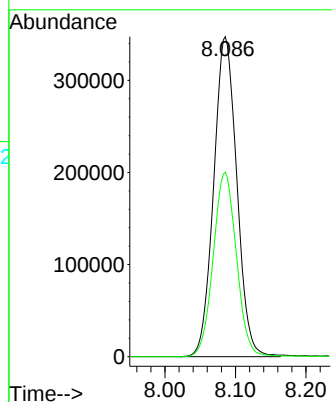


#1  
Pentafluorobenzene  
Concen: 50.000 ug/l  
RT: 8.086 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

Instrument :  
MSVOA\_N  
ClientSampleId :

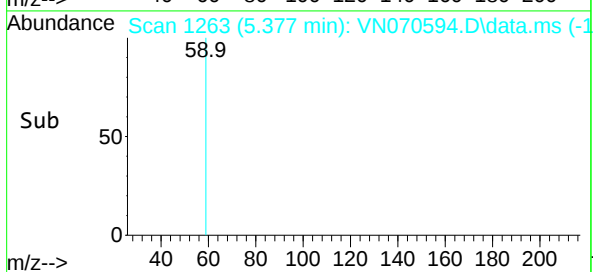
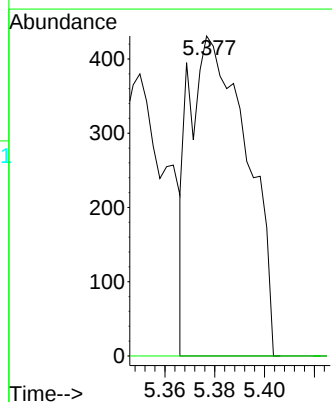
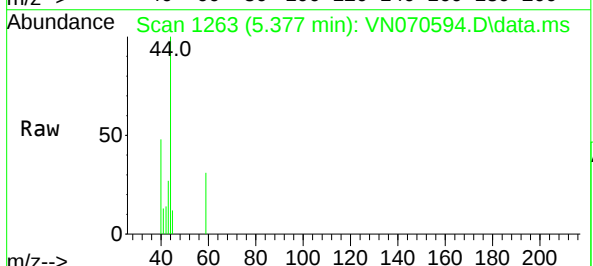


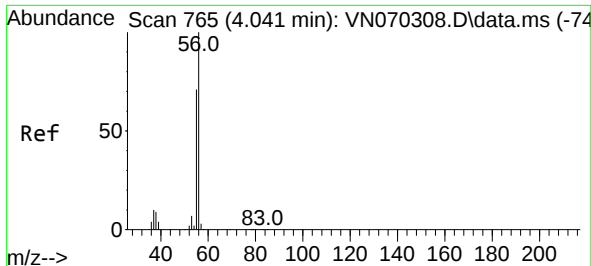
Tgt Ion:168 Resp: 791602  
Ion Ratio Lower Upper  
168 100  
99 57.6 41.3 61.9



#11  
Tert butyl alcohol  
Concen: 0.363 ug/l  
RT: 5.377 min Scan# 1263  
Delta R.T. -0.000 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

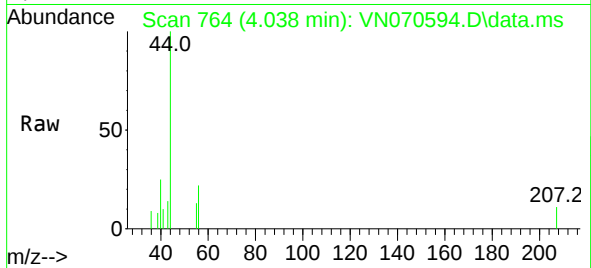
Tgt Ion: 59 Resp: 688  
Ion Ratio Lower Upper  
59 100  
57 0.0 8.7 13.1#



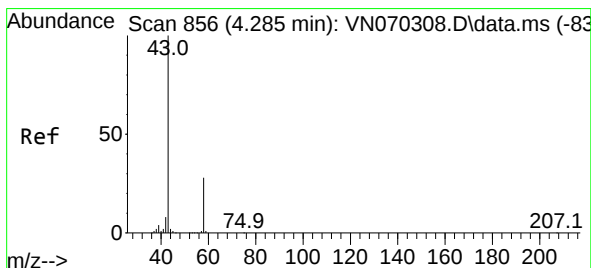
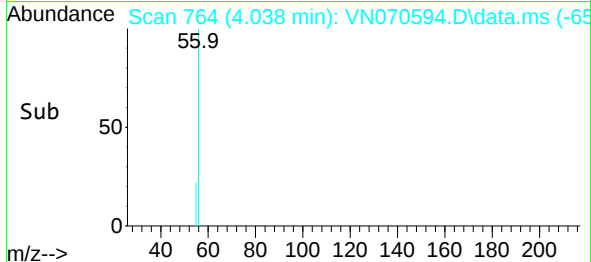
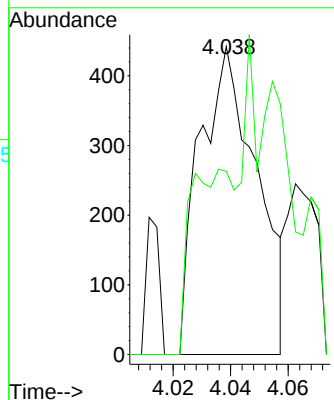


#13  
Acrolein  
Concen: 0.395 ug/l  
RT: 4.038 min Scan# 764  
Delta R.T. -0.003 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

Instrument :  
MSVOA\_N  
ClientSampleId :

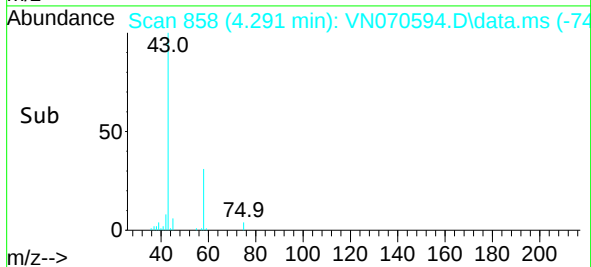
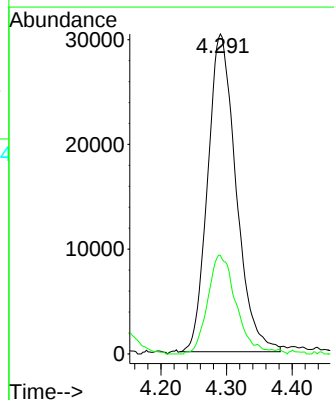
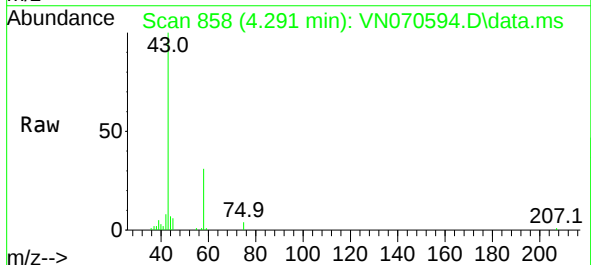


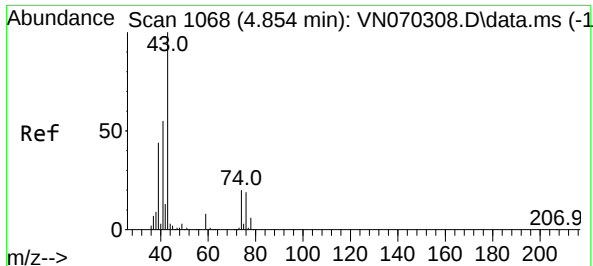
Tgt Ion: 56 Resp: 607  
Ion Ratio Lower Upper  
56 100  
55 45.8 56.6 85.0#



#16  
Acetone  
Concen: 12.330 ug/l  
RT: 4.291 min Scan# 858  
Delta R.T. 0.006 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

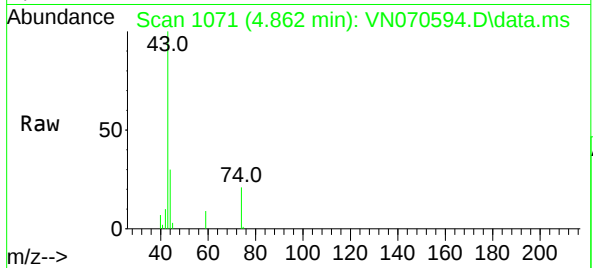
Tgt Ion: 43 Resp: 91098  
Ion Ratio Lower Upper  
43 100  
58 31.0 23.1 34.7



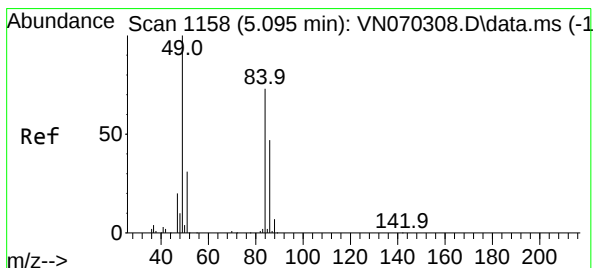
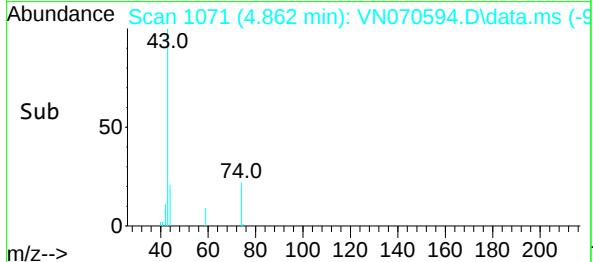
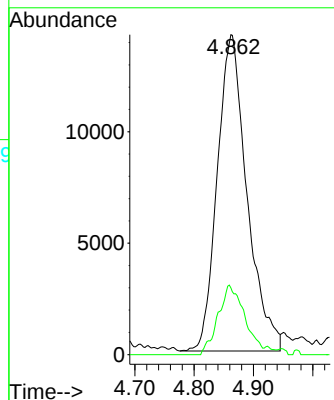


#18  
Methyl Acetate  
Concen: 2.307 ug/l  
RT: 4.862 min Scan# 1068  
Delta R.T. 0.008 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

Instrument :  
MSVOA\_N  
ClientSampleId :

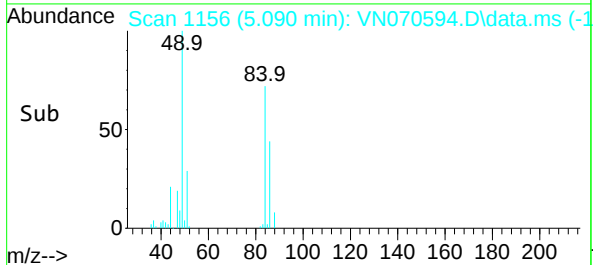
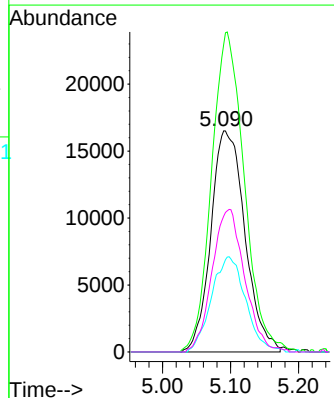
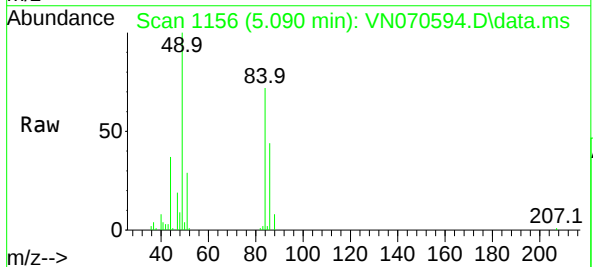


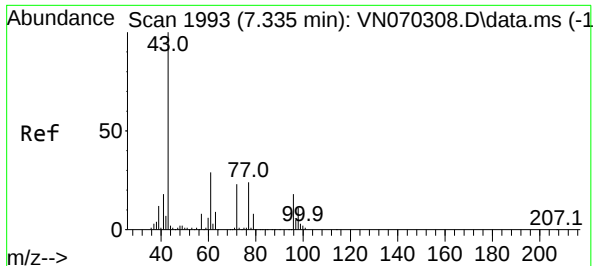
Tgt Ion: 43 Resp: 49316  
Ion Ratio Lower Upper  
43 100  
74 19.7 19.4 29.2



#20  
Methylene Chloride  
Concen: 5.618 ug/l  
RT: 5.090 min Scan# 1156  
Delta R.T. -0.005 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

Tgt Ion: 84 Resp: 57427  
Ion Ratio Lower Upper  
84 100  
49 139.1 93.5 140.3  
51 39.7 29.4 44.2  
86 61.4 53.0 79.4





#25

2-Butanone

Concen: 0.818 ug/l

RT: 7.337 min Scan# 1993

Delta R.T. 0.002 min

Lab File: VN070594.D

Acq: 12 Jan 2022 18:33

Instrument :

MSVOA\_N

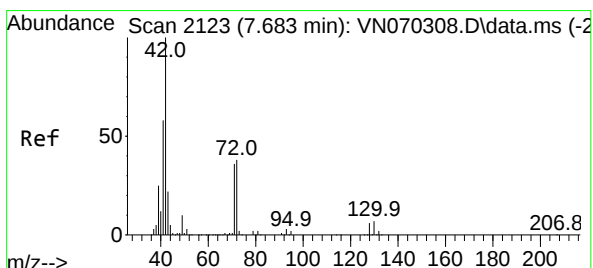
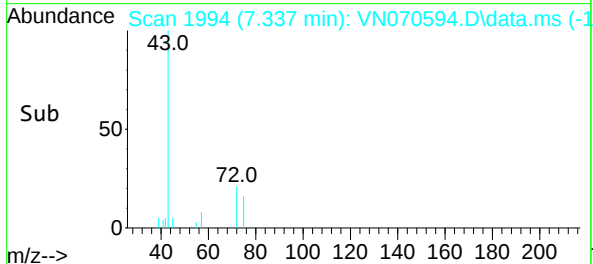
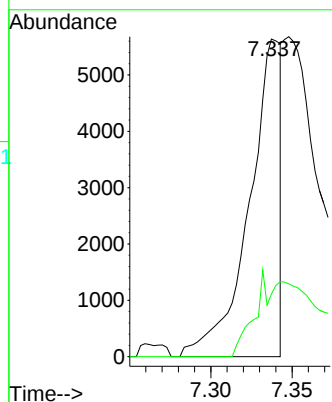
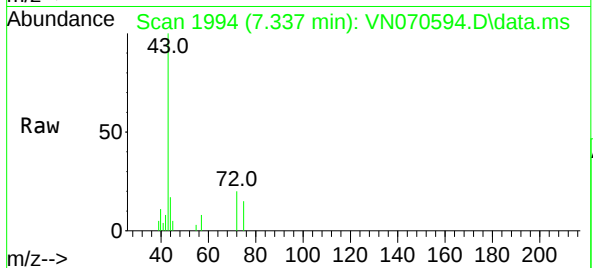
ClientSampleId :

Tgt Ion: 43 Resp: 7611

Ion Ratio Lower Upper

43 100

72 19.7 21.7 32.5#



#29

Tetrahydrofuran

Concen: 0.559 ug/l

RT: 7.697 min Scan# 2128

Delta R.T. 0.014 min

Lab File: VN070594.D

Acq: 12 Jan 2022 18:33

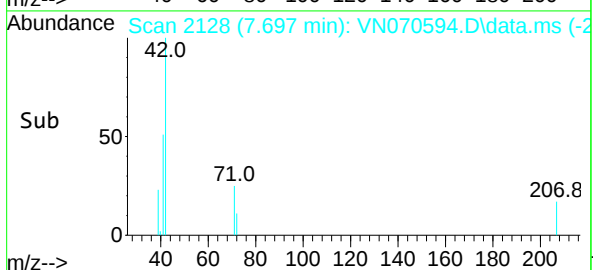
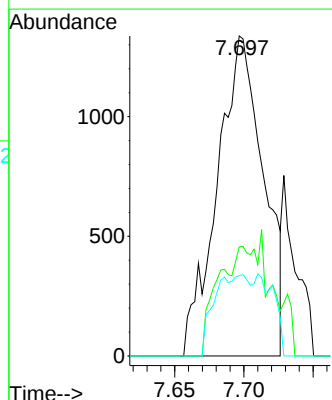
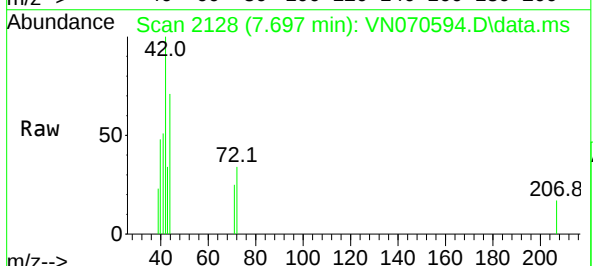
Tgt Ion: 42 Resp: 3104

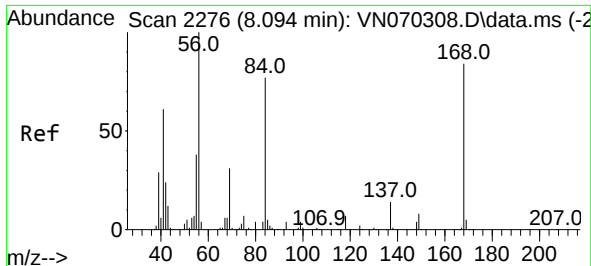
Ion Ratio Lower Upper

42 100

72 3.3 36.3 54.5#

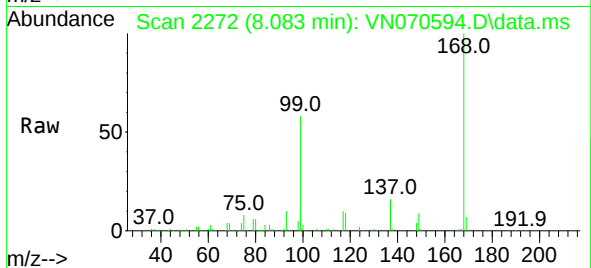
71 0.0 34.7 52.1#



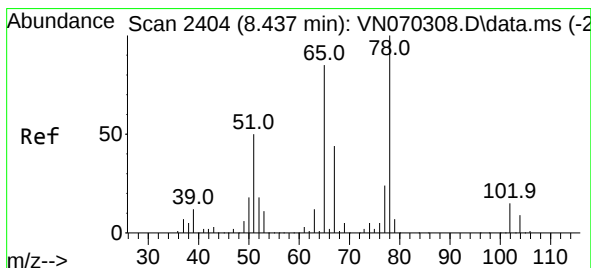
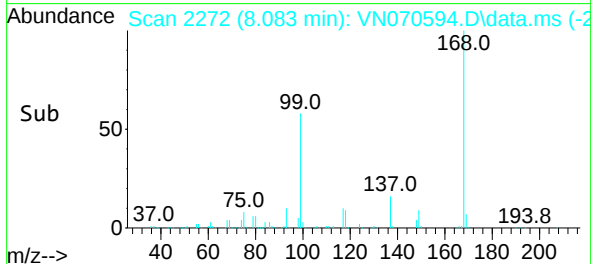
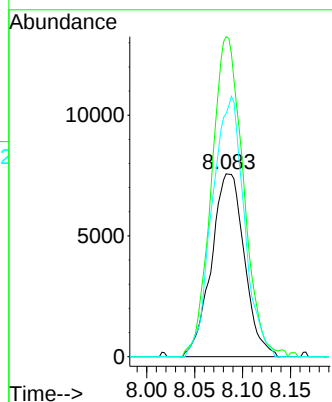


#31  
Cyclohexane  
Concen: 1.007 ug/l  
RT: 8.083 min Scan# 21  
Delta R.T. -0.011 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

Instrument :  
MSVOA\_N  
ClientSampleId :

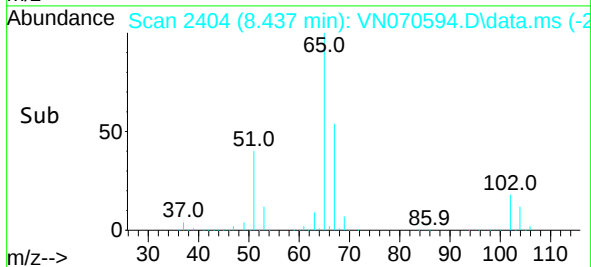
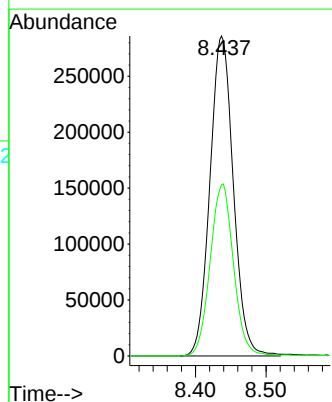
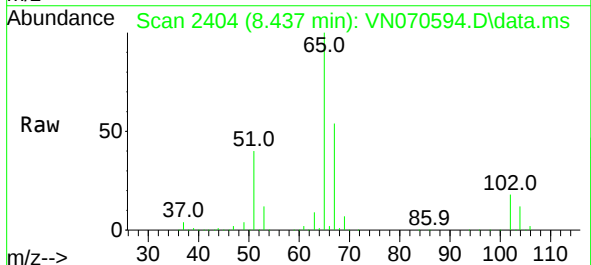


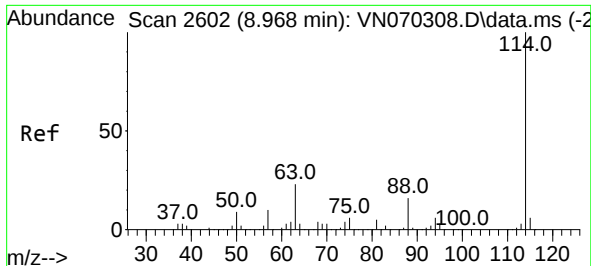
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Ion Ratio Lower Upper  
56 100  
69 175.0 27.1 40.7#  
84 133.0 73.4 110.0#



#33  
1,2-Dichloroethane-d4  
Concen: 57.991 ug/l  
RT: 8.437 min Scan# 2404  
Delta R.T. -0.000 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

Tgt Ion: 65 Resp: 660040  
Ion Ratio Lower Upper  
65 100  
67 53.5 0.0 103.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.965 min Scan# 2602

Delta R.T. -0.003 min

Lab File: VN070594.D

Acq: 12 Jan 2022 18:33

Instrument :

MSVOA\_N

ClientSampleId :

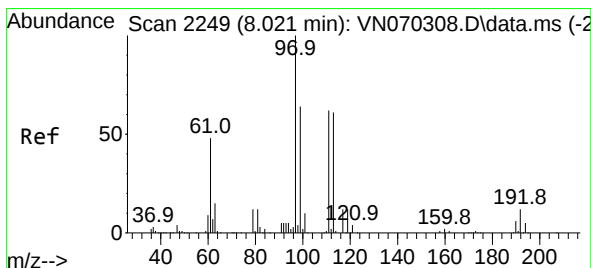
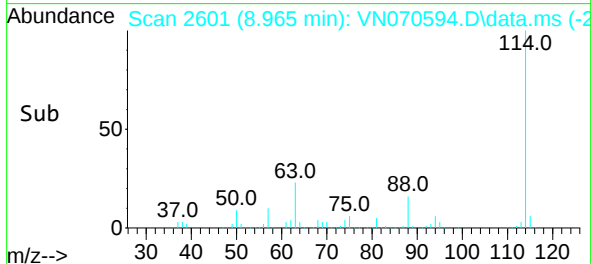
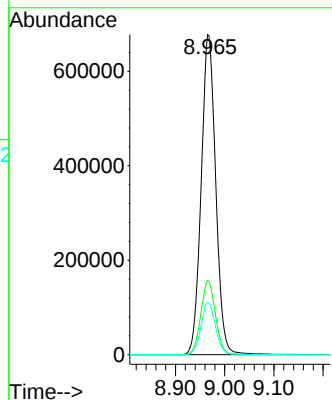
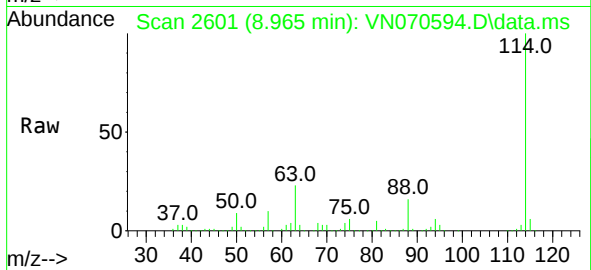
Tgt Ion:114 Resp: 1391412

Ion Ratio Lower Upper

114 100

63 23.2 0.0 37.8

88 16.4 0.0 27.4



#35

Dibromofluoromethane

Concen: 55.436 ug/l

RT: 8.021 min Scan# 2249

Delta R.T. 0.000 min

Lab File: VN070594.D

Acq: 12 Jan 2022 18:33

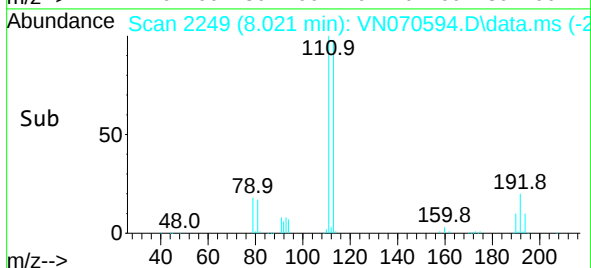
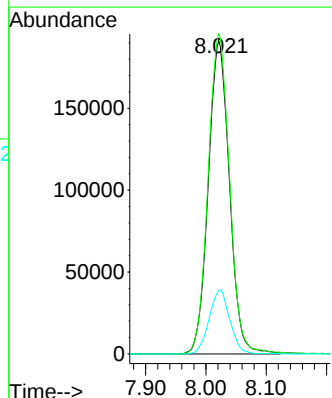
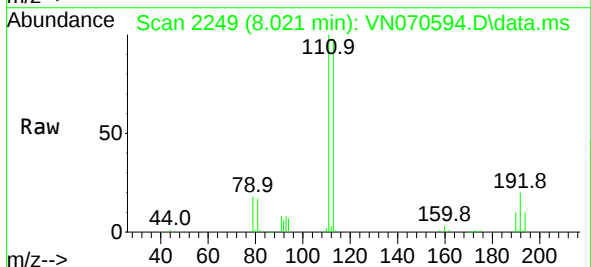
Tgt Ion:113 Resp: 466704

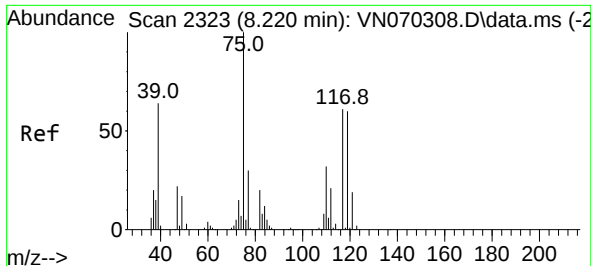
Ion Ratio Lower Upper

113 100

111 103.3 82.2 123.2

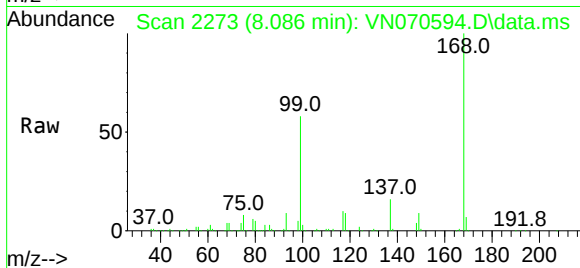
192 19.9 16.9 25.3



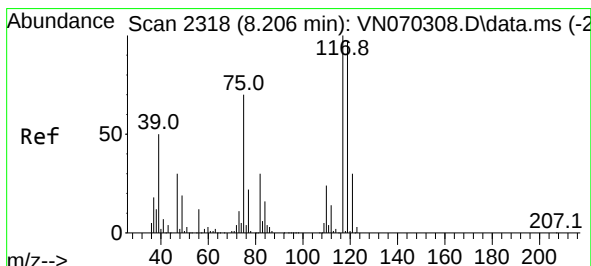
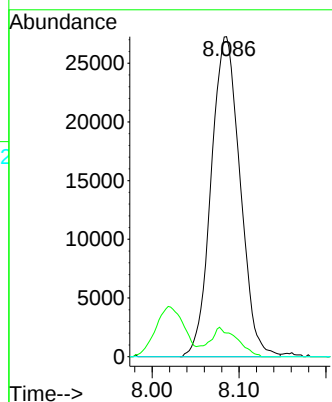
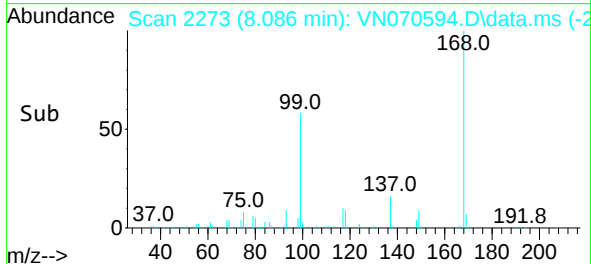


#36  
 1,1-Dichloropropene  
 Concen: 4.519 ug/l  
 RT: 8.086 min Scan# 21  
 Delta R.T. -0.134 min  
 Lab File: VN070594.D  
 Acq: 12 Jan 2022 18:33

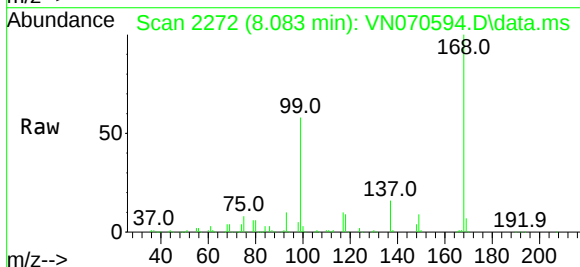
Instrument :  
 MSVOA\_N  
 ClientSampleId :



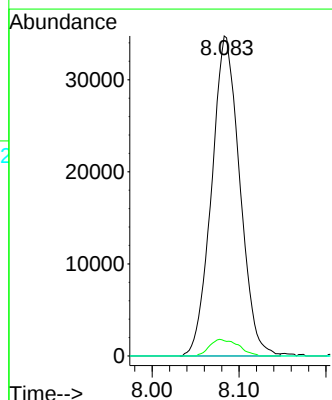
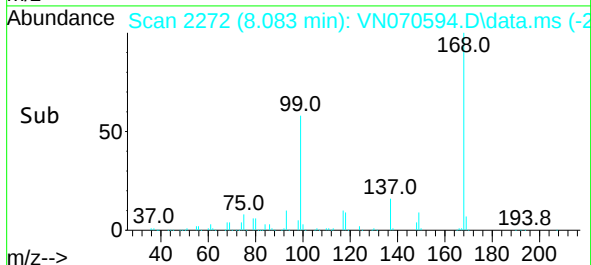
Tgt Ion: 75 Resp: 62936  
 Ion Ratio Lower Upper  
 75 100  
 110 8.2 18.4 55.2#  
 77 0.0 24.4 36.6#

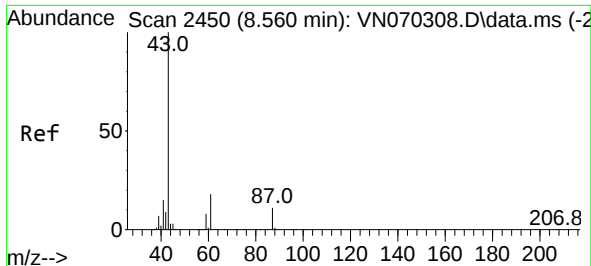


#38  
 Carbon Tetrachloride  
 Concen: 5.879 ug/l  
 RT: 8.083 min Scan# 2272  
 Delta R.T. -0.123 min  
 Lab File: VN070594.D  
 Acq: 12 Jan 2022 18:33



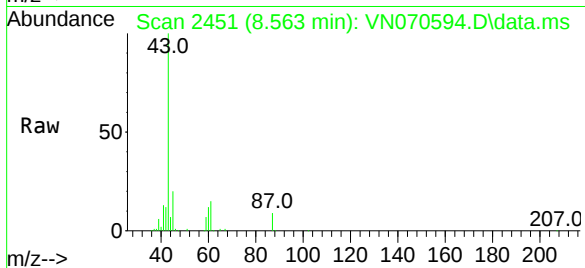
Tgt Ion: 117 Resp: 78187  
 Ion Ratio Lower Upper  
 117 100  
 119 4.8 76.1 114.1#  
 121 0.0 24.2 36.2#



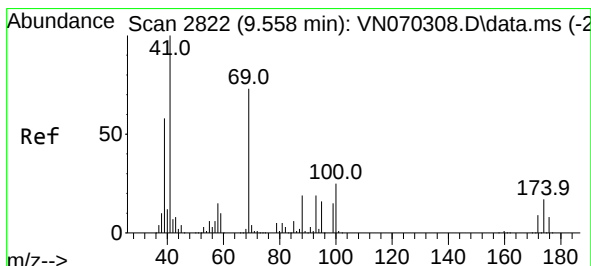
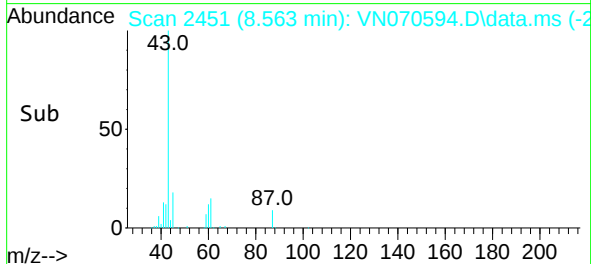
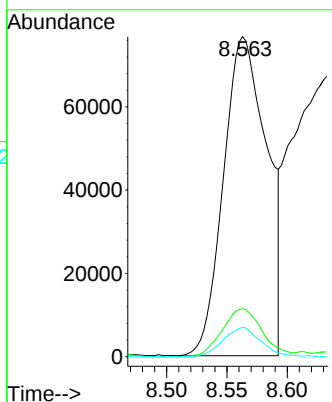


#43  
Isopropyl Acetate  
Concen: 6.734 ug/l  
RT: 8.563 min Scan# 2451  
Delta R.T. 0.003 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

Instrument :  
MSVOA\_N  
ClientSampleId :

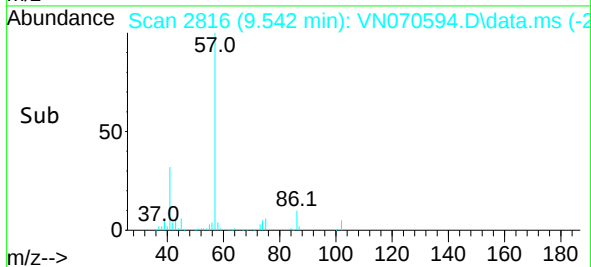
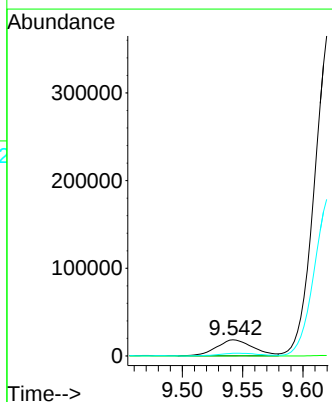
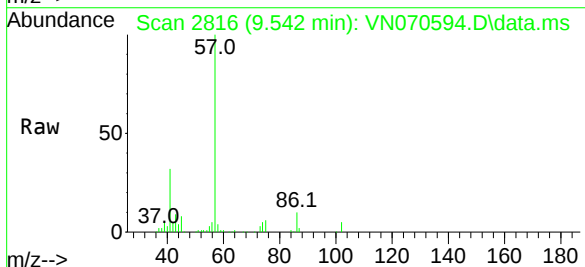


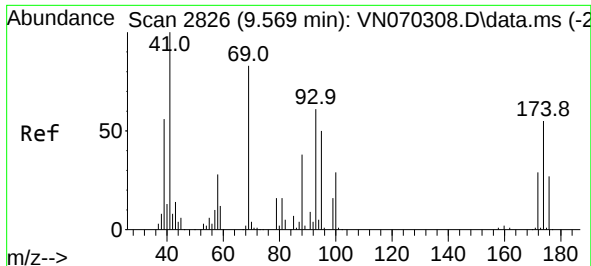
Tgt Ion: 43 Resp: 191651  
Ion Ratio Lower Upper  
43 100  
61 14.0 20.4 30.6#  
87 8.0 11.2 16.8#



#48  
Methyl methacrylate  
Concen: 2.778 ug/l  
RT: 9.542 min Scan# 2816  
Delta R.T. -0.016 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

Tgt Ion: 41 Resp: 37715  
Ion Ratio Lower Upper  
41 100  
69 0.2 72.4 108.6#  
39 0.0 58.4 87.6#





#49

1,4-Dioxane

Concen: 4.680 ug/l

RT: 9.622 min Scan# 2846

Delta R.T. 0.053 min

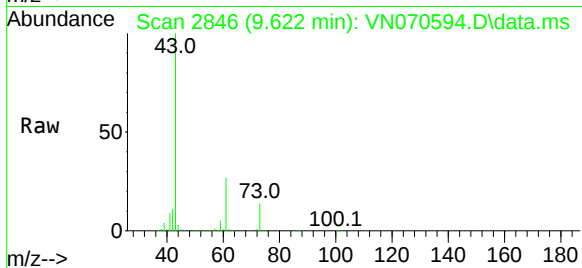
Lab File: VN070594.D

Acq: 12 Jan 2022 18:33

Instrument :

MSVOA\_N

ClientSampleId :



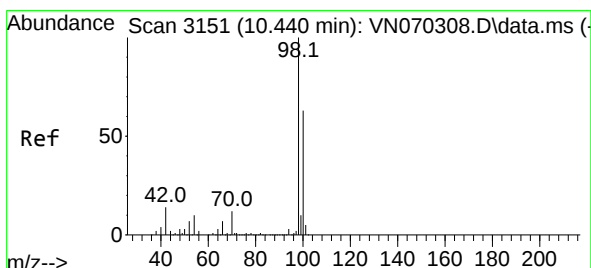
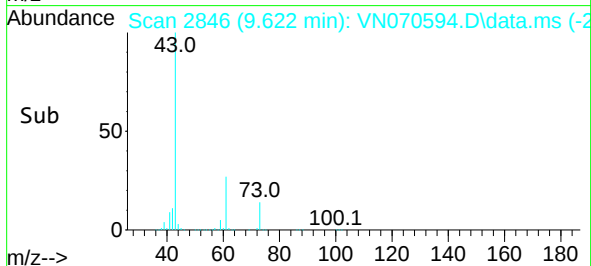
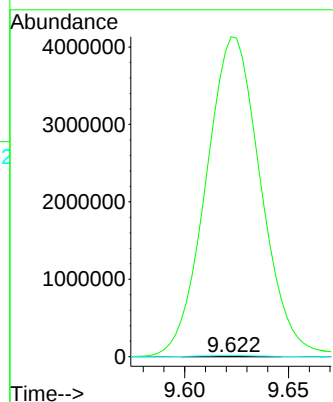
Tgt Ion: 88 Resp: 930

Ion Ratio Lower Upper

88 100

43 830052.4 23.4 35.2#

58 3281.7 50.6 75.8#



#50

Toluene-d8

Concen: 55.733 ug/l

RT: 10.440 min Scan# 3151

Delta R.T. 0.000 min

Lab File: VN070594.D

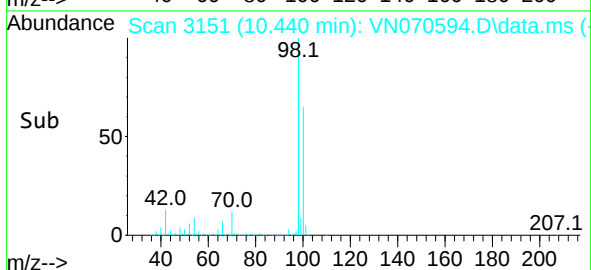
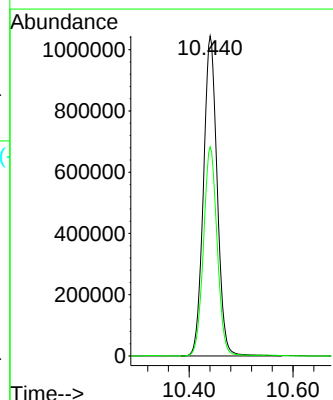
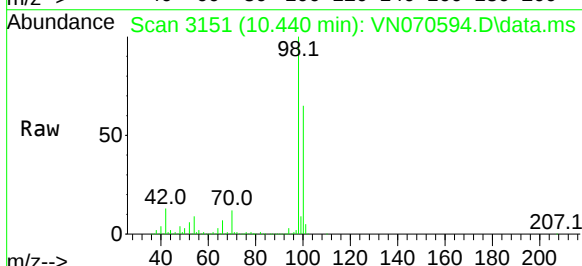
Acq: 12 Jan 2022 18:33

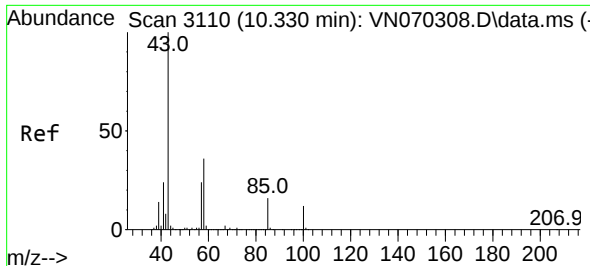
Tgt Ion: 98 Resp: 1916734

Ion Ratio Lower Upper

98 100

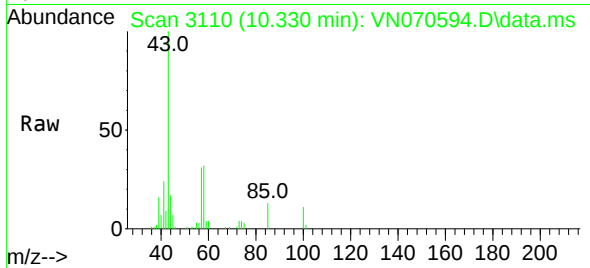
100 65.1 50.4 75.6



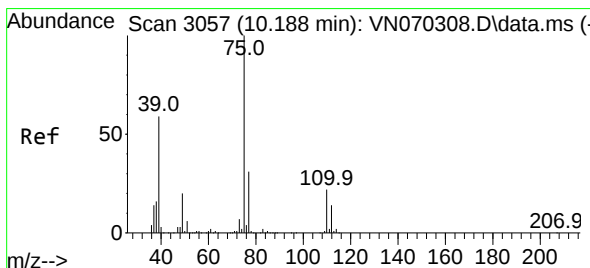
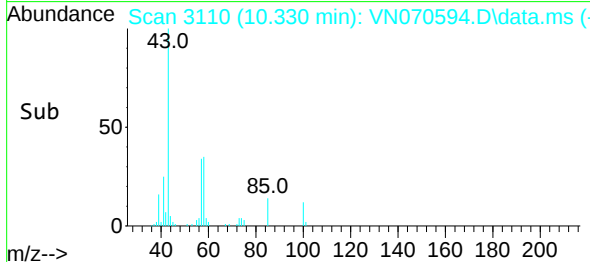
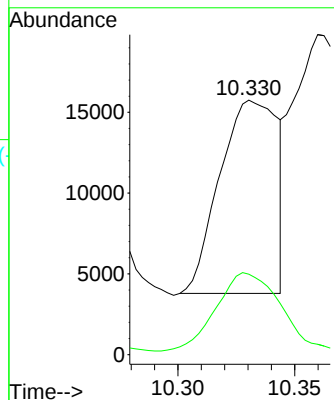


#51  
4-Methyl-2-Pentanone  
Concen: 1.146 ug/l  
RT: 10.330 min Scan# 3110  
Delta R.T. 0.000 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

Instrument :  
MSVOA\_N  
ClientSampleId :

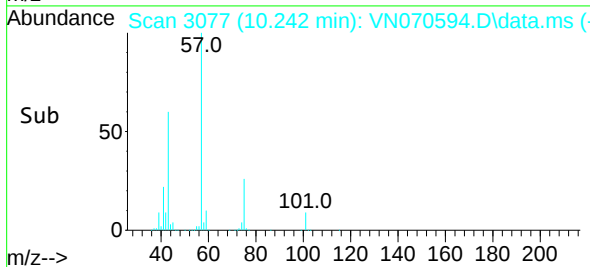
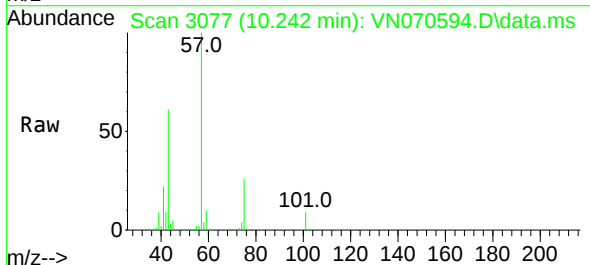
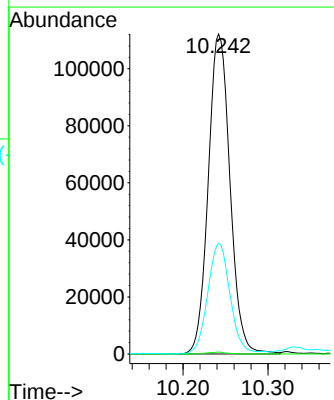


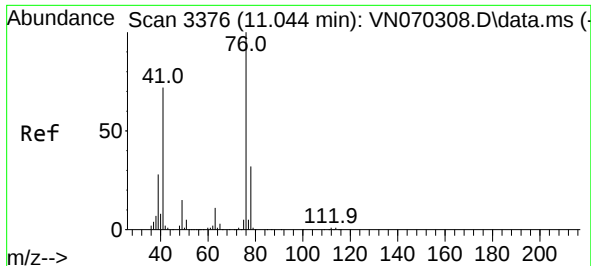
Tgt Ion: 43 Resp: 20491  
Ion Ratio Lower Upper  
43 100  
58 50.9 30.4 45.6#



#54  
cis-1,3-Dichloropropene  
Concen: 12.002 ug/l  
RT: 10.242 min Scan# 3077  
Delta R.T. 0.054 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

Tgt Ion: 75 Resp: 199498  
Ion Ratio Lower Upper  
75 100  
77 0.6 26.4 39.6#  
39 34.6 42.5 63.7#





#57

1,3-Dichloropropane

Concen: 6.365 ug/l

RT: 11.089 min Scan# 31

Delta R.T. 0.045 min

Lab File: VN070594.D

Acq: 12 Jan 2022 18:33

Instrument :

MSVOA\_N

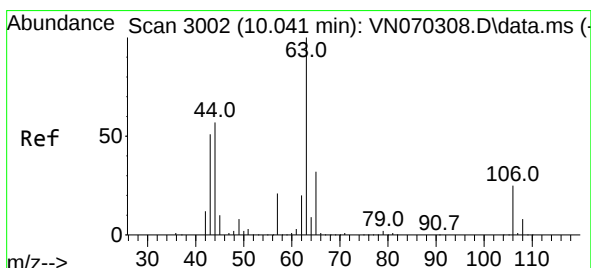
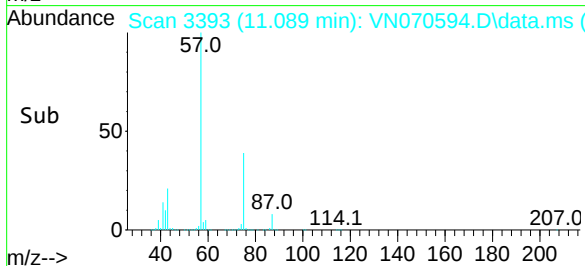
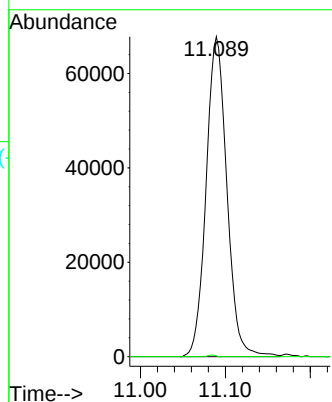
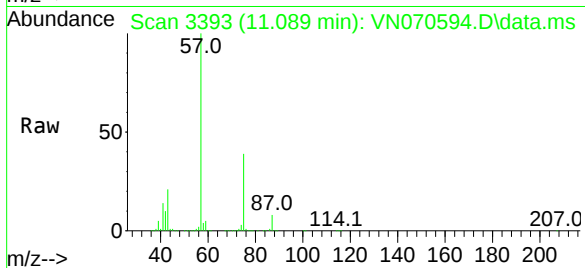
ClientSampleId :

Tgt Ion: 76 Resp: 115115

Ion Ratio Lower Upper

76 100

78 0.2 25.7 38.5#



#58

2-Chloroethyl Vinyl ether

Concen: 18.541 ug/l

RT: 10.035 min Scan# 3000

Delta R.T. -0.006 min

Lab File: VN070594.D

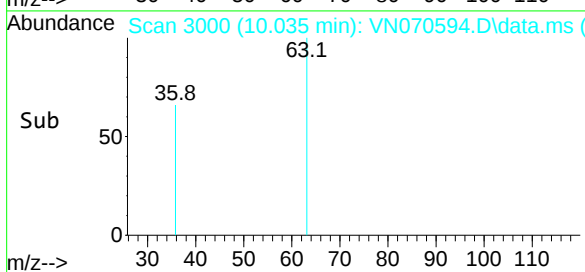
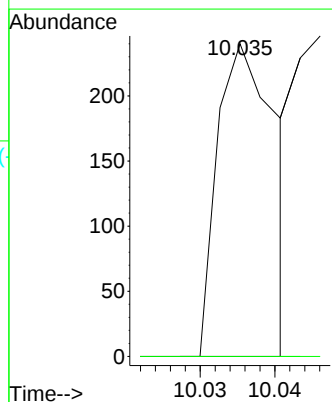
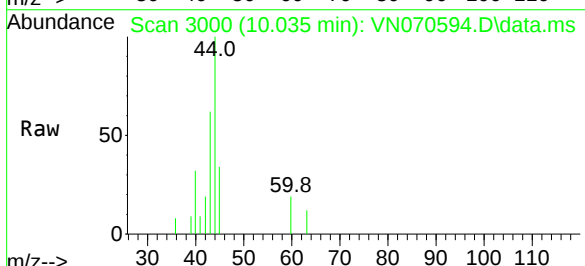
Acq: 12 Jan 2022 18:33

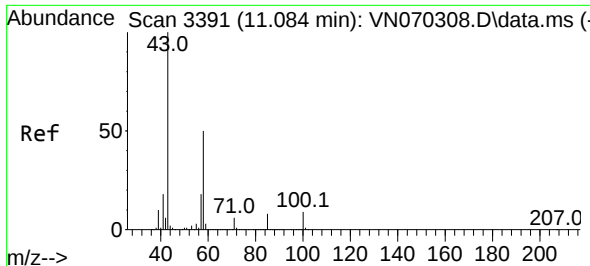
Tgt Ion: 63 Resp: 131

Ion Ratio Lower Upper

63 100

106 0.0 23.9 35.9#

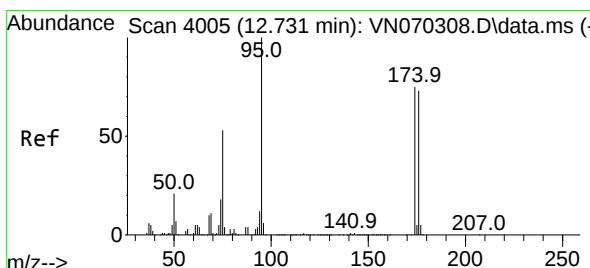
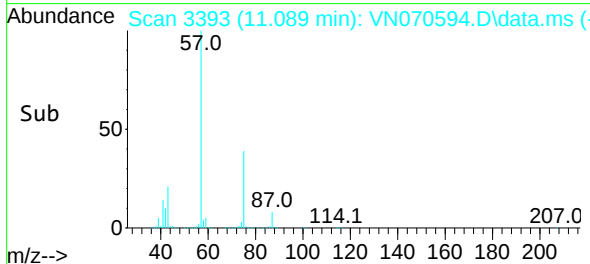
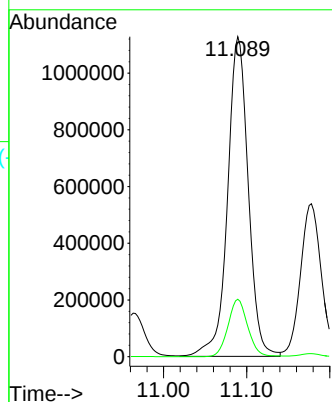
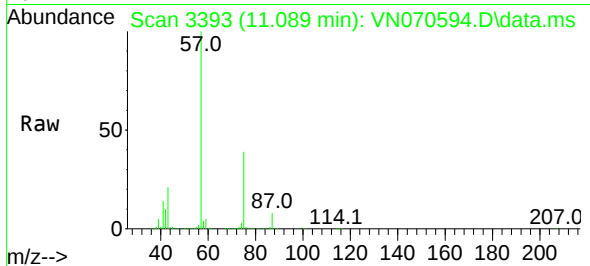




#59  
2-Hexanone  
Concen: 149.639 ug/l  
RT: 11.089 min Scan# 31  
Delta R.T. 0.005 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

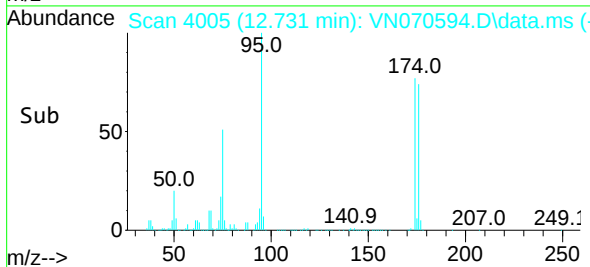
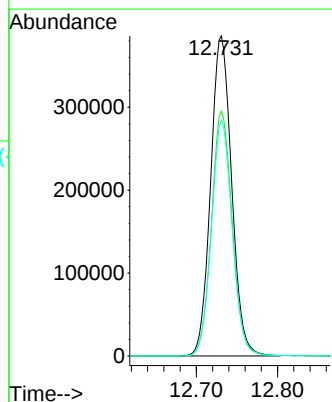
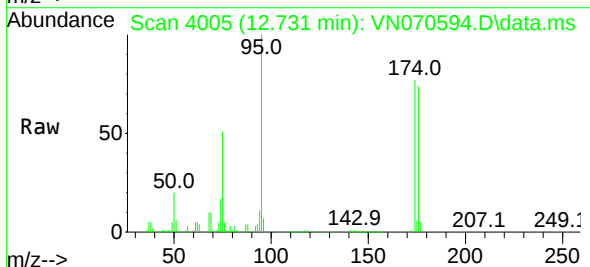
Instrument :  
MSVOA\_N  
ClientSampleId :

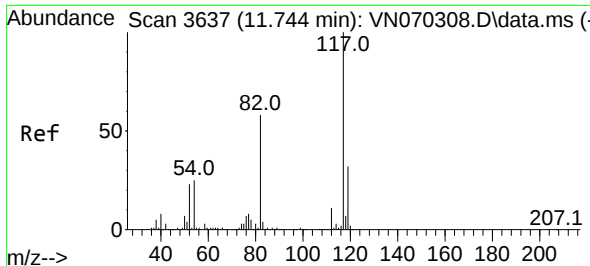
Tgt Ion: 43 Resp: 1951574  
Ion Ratio Lower Upper  
43 100  
58 17.2 26.9 80.7#



#62  
4-Bromofluorobenzene  
Concen: 55.737 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. -0.000 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

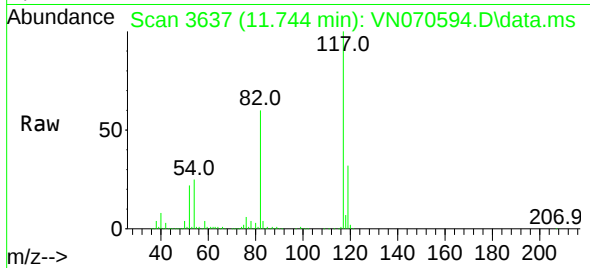
Tgt Ion: 95 Resp: 692335  
Ion Ratio Lower Upper  
95 100  
174 76.0 0.0 187.2  
176 73.0 0.0 181.4



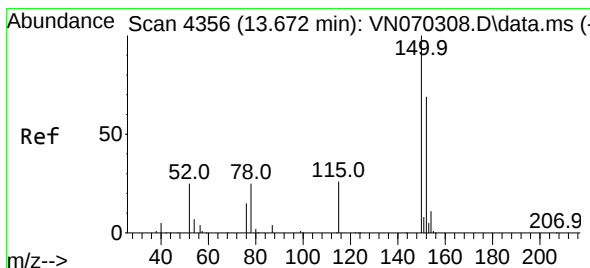
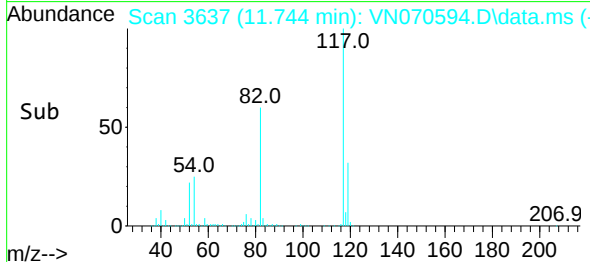
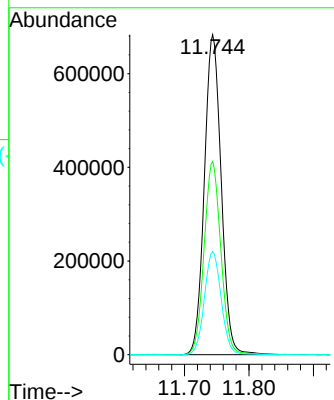


#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 11.744 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

Instrument :  
MSVOA\_N  
ClientSampleId :

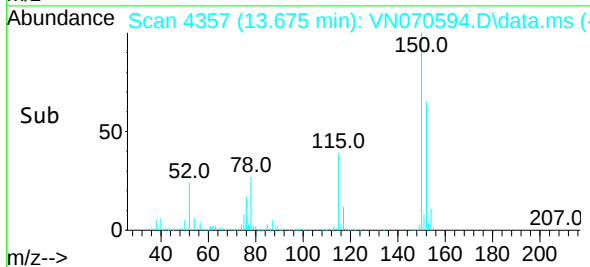
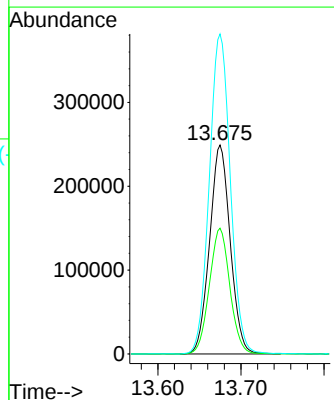
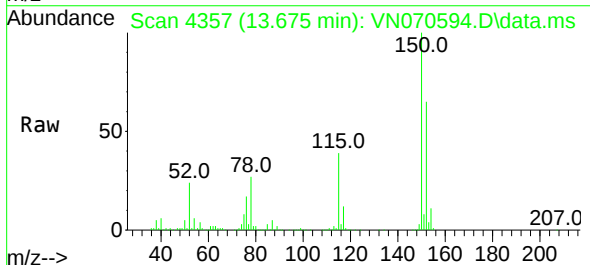


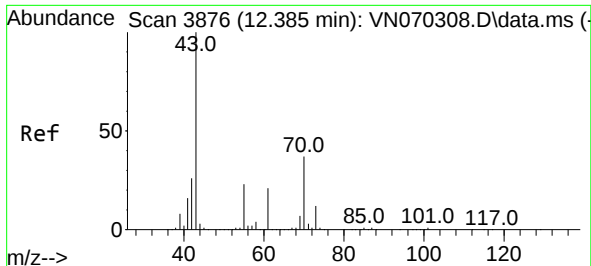
Tgt Ion:117 Resp: 1238608  
Ion Ratio Lower Upper  
117 100  
82 60.4 42.4 63.6  
119 32.3 25.4 38.2



#72  
1,4-Dichlorobenzene-d4  
Concen: 50.000 ug/l  
RT: 13.675 min Scan# 4357  
Delta R.T. 0.003 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

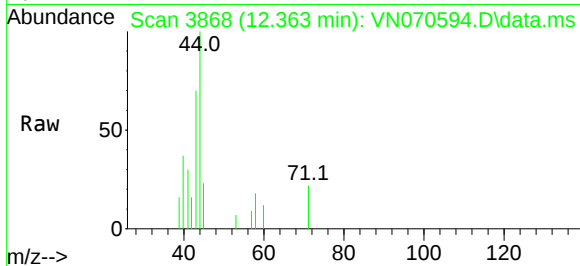
Tgt Ion:152 Resp: 429855  
Ion Ratio Lower Upper  
152 100  
115 59.7 27.5 82.5  
150 155.8 0.0 344.4



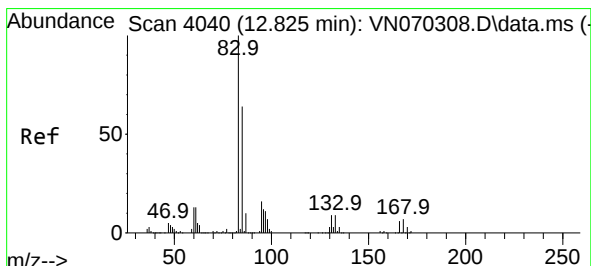
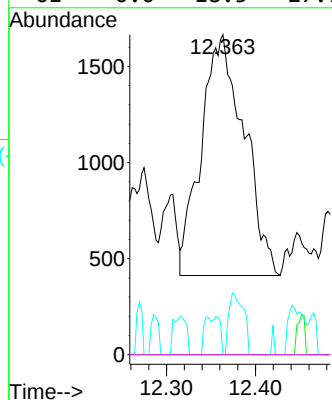
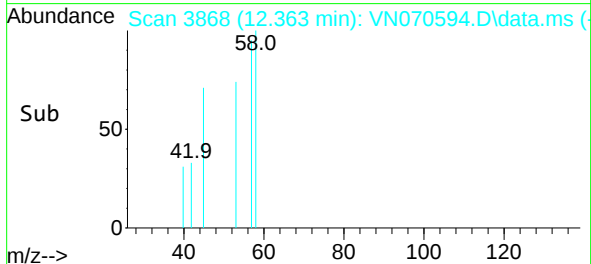


#74  
N-amy1 acetate  
Concen: 0.250 ug/l  
RT: 12.363 min Scan# 3876  
Delta R.T. -0.022 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

Instrument :  
MSVOA\_N  
ClientSampleId :

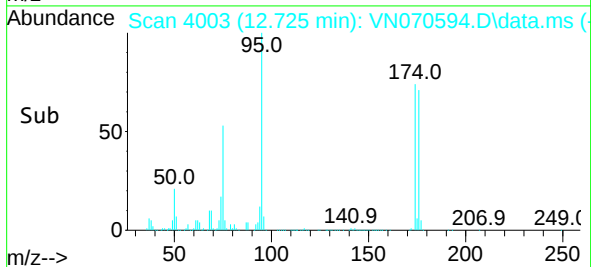
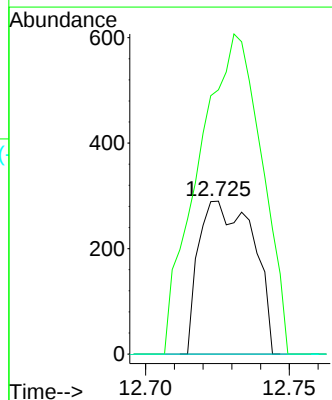
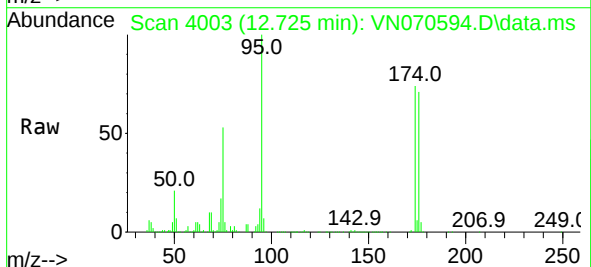


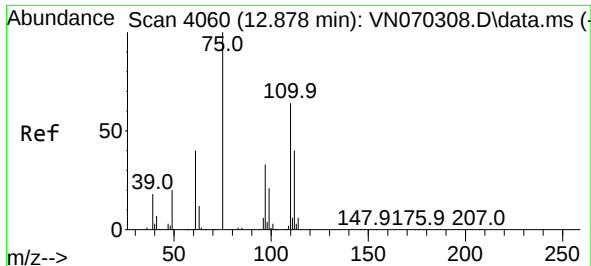
|             |             |
|-------------|-------------|
| Tgt Ion: 43 | Resp: 4192  |
| Ion Ratio   | Lower Upper |
| 43 100      |             |
| 70 0.0      | 33.4 50.0#  |
| 55 8.8      | 19.3 28.9#  |
| 61 0.0      | 18.5 27.7#  |



#75  
1,1,2,2-Tetrachloroethane  
Concen: 0.473 ug/l  
RT: 12.725 min Scan# 4003  
Delta R.T. -0.100 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

|             |             |
|-------------|-------------|
| Tgt Ion: 83 | Resp: 381   |
| Ion Ratio   | Lower Upper |
| 83 100      |             |
| 131 243.0   | 5.5 16.5#   |
| 85 0.0      | 32.4 97.2#  |

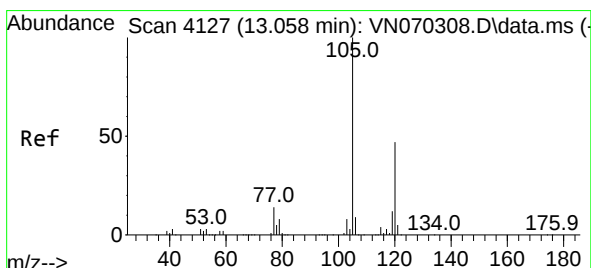
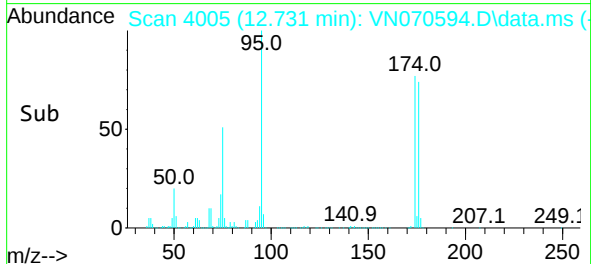
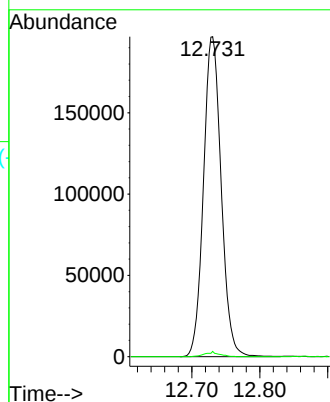
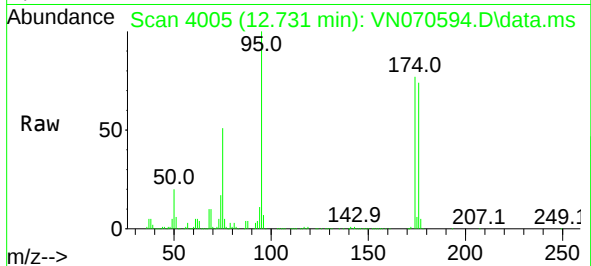




#76  
1,2,3-Trichloropropane  
Concen: 29.182 ug/l  
RT: 12.731 min Scan# 4060  
Delta R.T. -0.147 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

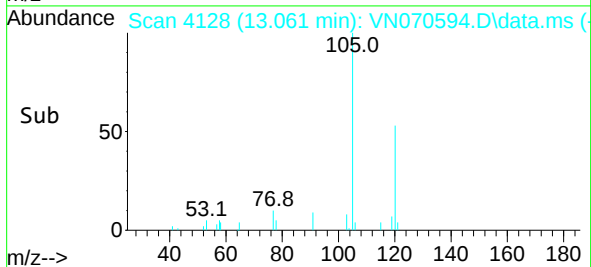
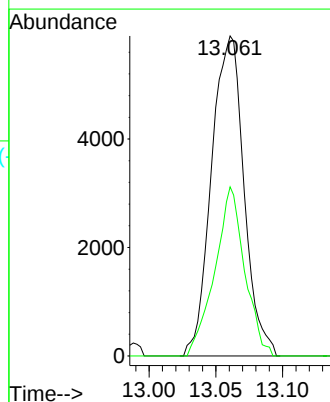
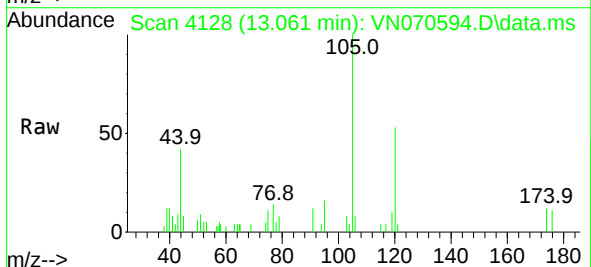
Instrument :  
MSVOA\_N  
ClientSampleId :

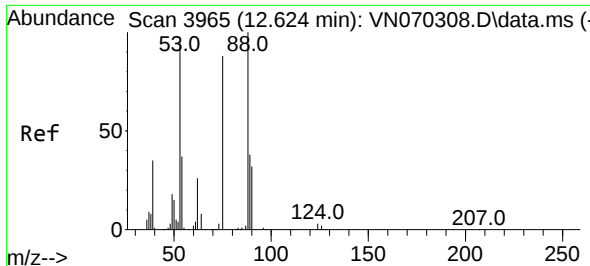
Tgt Ion: 75 Resp: 356040  
Ion Ratio Lower Upper  
75 100  
77 1.2 82.6 247.8#



#80  
1,3,5-Trimethylbenzene  
Concen: 0.312 ug/l  
RT: 13.061 min Scan# 4128  
Delta R.T. 0.003 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

Tgt Ion:105 Resp: 9984  
Ion Ratio Lower Upper  
105 100  
120 48.5 24.6 73.6

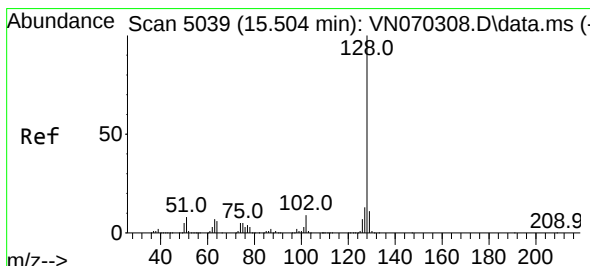
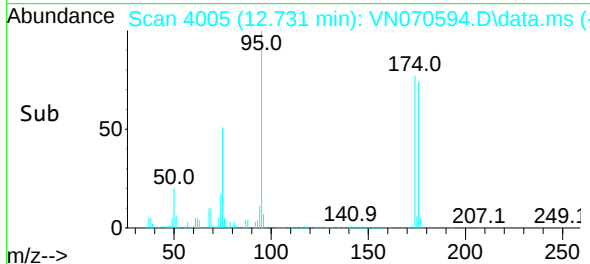
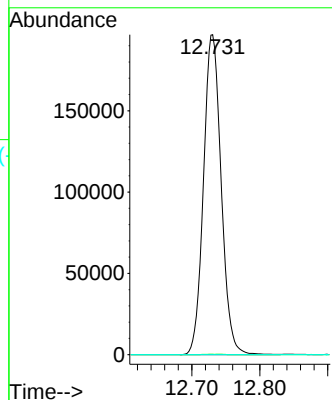
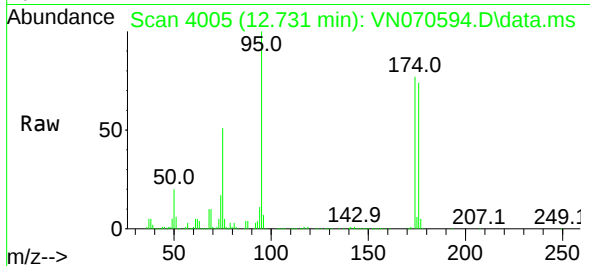




#81  
trans-1,4-Dichloro-2-butene  
Concen: 101.197 ug/l  
RT: 12.731 min Scan# 4005  
Delta R.T. 0.107 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

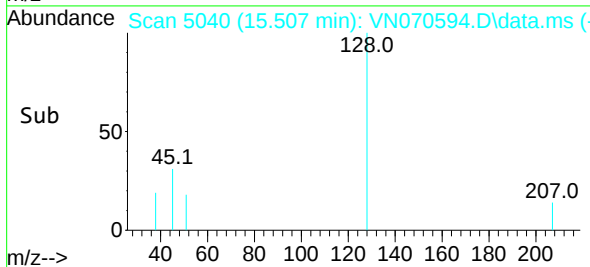
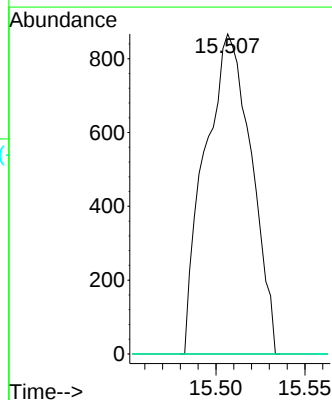
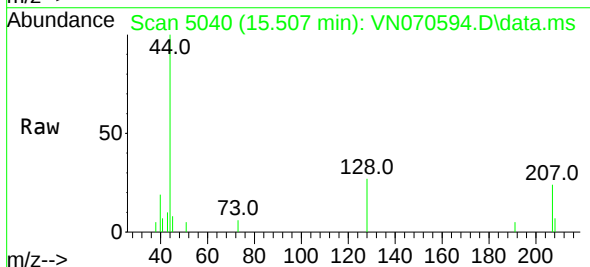
Instrument :  
MSVOA\_N  
ClientSampleId :

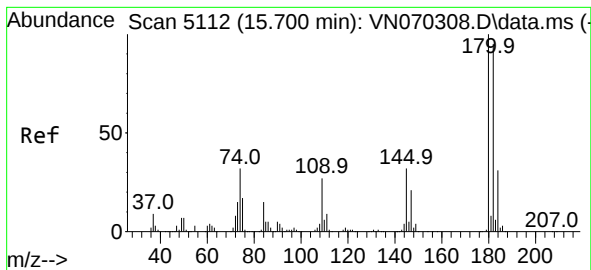
Tgt Ion: 75 Resp: 356040  
Ion Ratio Lower Upper  
75 100  
53 0.1 90.5 135.7#  
89 0.0 38.2 57.4#



#95  
Naphthalene  
Concen: 1.874 ug/l  
RT: 15.507 min Scan# 5040  
Delta R.T. 0.003 min  
Lab File: VN070594.D  
Acq: 12 Jan 2022 18:33

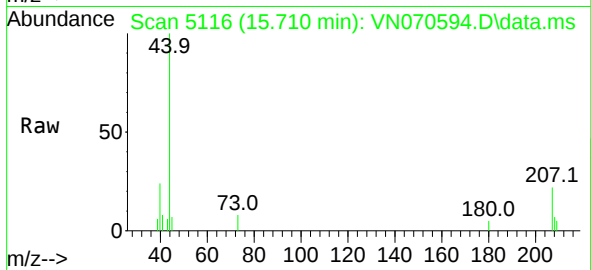
Tgt Ion:128 Resp: 1574  
Ion Ratio Lower Upper  
128 100  
127 0.0 10.5 15.7#  
129 0.0 8.7 13.1#





#96  
 1,2,3-Trichlorobenzene  
 Concen: 0.833 ug/l  
 RT: 15.710 min Scan# 51  
 Delta R.T. 0.010 min  
 Lab File: VN070594.D  
 Acq: 12 Jan 2022 18:33

Instrument :  
 MSVOA\_N  
 ClientSampleId :



Tgt Ion:180 Resp: 50  
 Ion Ratio Lower Upper  
 180 100  
 182 0.0 47.4 142.2#  
 145 0.0 15.0 45.1#

