

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN040822\  
 Data File : VN071915.D  
 Acq On : 08 Apr 2022 15:19  
 Operator : JC\MD  
 Sample : N2299-01  
 Misc : 5.0mL/MSVOA\_N/WATER  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 MSVOA\_N  
 ClientSampleId :  
 001-WILLETS-PT-BLVD(APR)

Quant Time: Apr 09 05:21:15 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N032422W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Thu Mar 24 12:03:44 2022  
 Response via : Initial Calibration

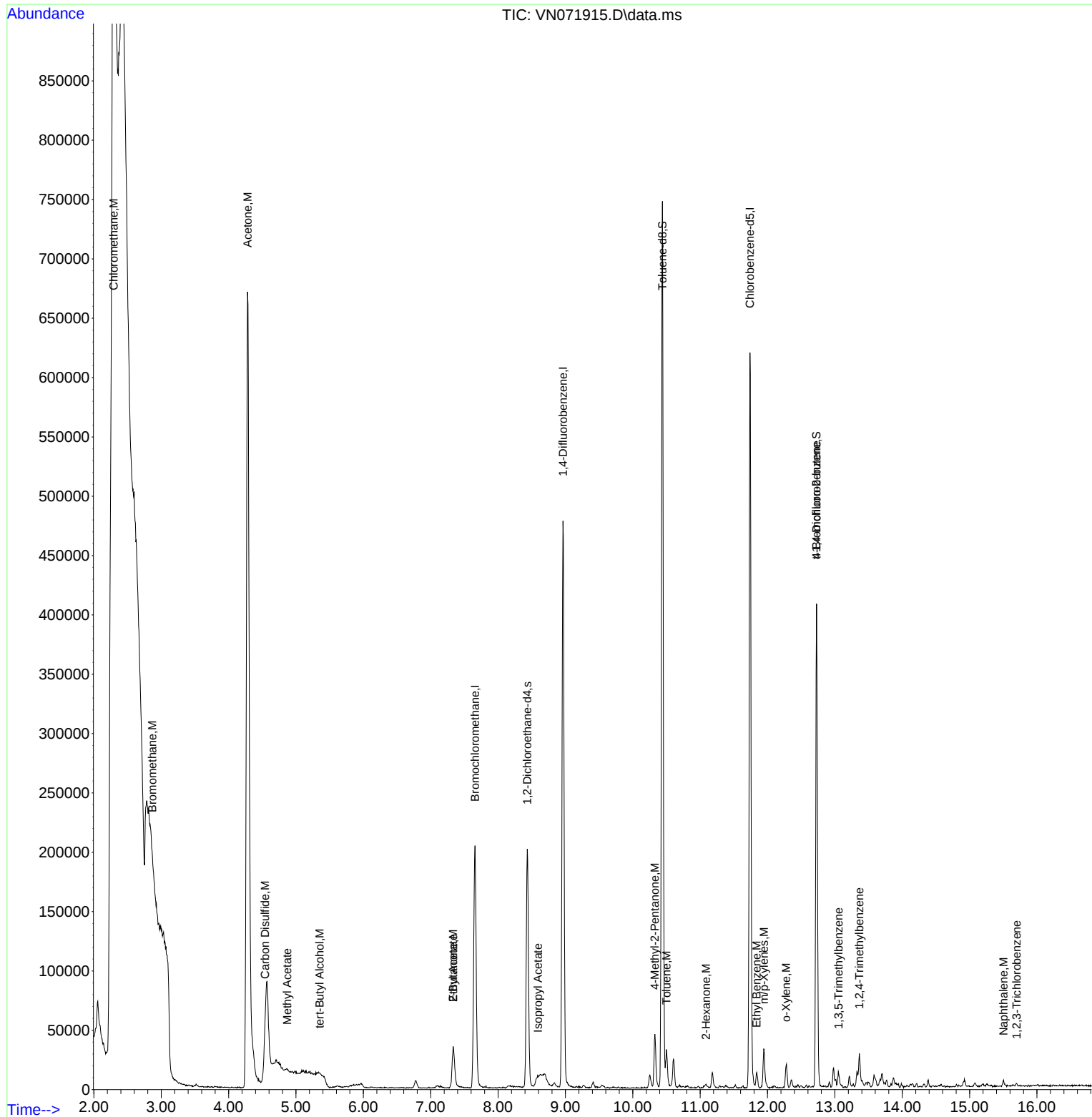
| Compound                    | R.T.           | QIon | Response   | Conc     | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|----------|--------|----------|
| -----                       |                |      |            |          |        |          |
| Internal Standards          |                |      |            |          |        |          |
| 1) Bromochloromethane       | 7.657          | 128  | 82174      | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 8.963          | 114  | 447980     | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 11.739         | 117  | 399233     | 30.000   | ug/l   | 0.00     |
|                             |                |      |            |          |        |          |
| System Monitoring Compounds |                |      |            |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 8.434          | 65   | 165840     | 28.644   | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 110 |      | Recovery = | 95.467%  |        |          |
| 60) 4-Bromofluorobenzene    | 12.727         | 95   | 148810     | 25.138   | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 63 - 112 |      | Recovery = | 83.800%  |        |          |
| 63) Toluene-d8              | 10.439         | 98   | 550124     | 30.355   | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 112 |      | Recovery = | 101.200% |        |          |
|                             |                |      |            |          |        |          |
| Target Compounds            |                |      |            |          |        |          |
|                             |                |      |            |          | Qvalue |          |
| 3) Chloromethane            | 2.293          | 50   | 67108      | 11.132   | ug/l # | 42       |
| 5) Bromomethane             | 2.869          | 94   | 932        | 0.229    | ug/l # | 34       |
| 12) Methyl Acetate          | 4.869          | 43   | 5342       | 0.796    | ug/l   | 94       |
| 15) Acetone                 | 4.281          | 58   | 455809     | 521.239  | ug/l   | 76       |
| 16) Carbon Disulfide        | 4.540          | 76   | 85192      | 6.873    | ug/l   | 95       |
| 23) tert-Butyl Alcohol      | 5.351          | 59   | 700        | 0.646    | ug/l # | 100      |
| 30) 2-Butanone              | 7.334          | 43   | 57483      | 14.242   | ug/l   | 98       |
| 43) Ethyl Acetate           | 7.334          | 43   | 57483      | 7.345    | ug/l # | 67       |
| 44) Isopropyl Acetate       | 8.592          | 43   | 8379       | 0.667    | ug/l # | 50       |
| 58) 4-Methyl-2-Pentanone    | 10.327         | 43   | 31062      | 4.099    | ug/l   | 92       |
| 59) 2-Hexanone              | 11.086         | 43   | 2210       | 0.399    | ug/l # | 91       |
| 62) Toluene                 | 10.498         | 91   | 20219      | 0.835    | ug/l   | 97       |
| 66) Ethyl Benzene           | 11.839         | 91   | 9166       | 0.348    | ug/l   | 94       |
| 67) m/p-Xylenes             | 11.945         | 106  | 10151      | 0.992    | ug/l   | 100      |
| 68) o-Xylene                | 12.274         | 106  | 5776       | 0.568    | ug/l   | 95       |
| 76) 1,3,5-Trimethylbenzene  | 13.057         | 105  | 5478       | 0.267    | ug/l   | 96       |
| 77) t-1,4-Dichloro-2-butene | 12.727         | 75   | 70584      | 28.160   | ug/l # | 8        |
| 80) 1,2,4-Trimethylbenzene  | 13.363         | 105  | 17565      | 0.884    | ug/l # | 82       |
| 91) Naphthalene             | 15.504         | 128  | 5427       | 7.186    | ug/l # | 92       |
| 92) 1,2,3-Trichlorobenzene  | 15.698         | 180  | 1002       | 0.224    | ug/l   | 64       |
| -----                       |                |      |            |          |        |          |

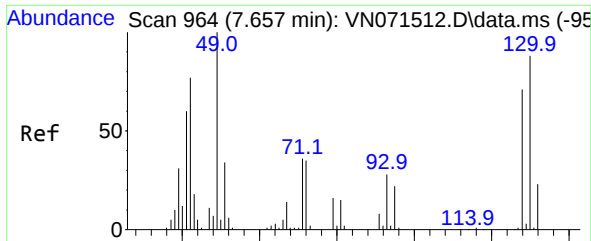
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_N\Data\VN040822\  
Data File : VN071915.D  
Acq On : 08 Apr 2022 15:19  
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Sample : N2299-01  
Misc : 5.0mL/MSVOA\_N/WATER  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(APR)

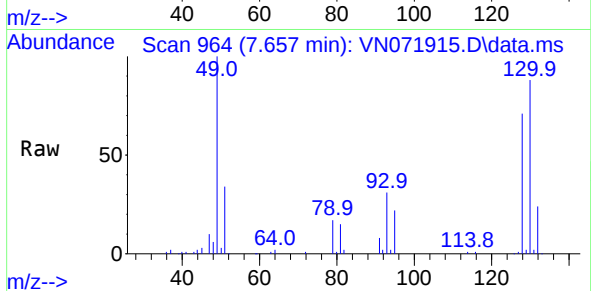
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_N\methods\624N032422W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Thu Mar 24 12:03:44 2022  
Response via : Initial Calibration



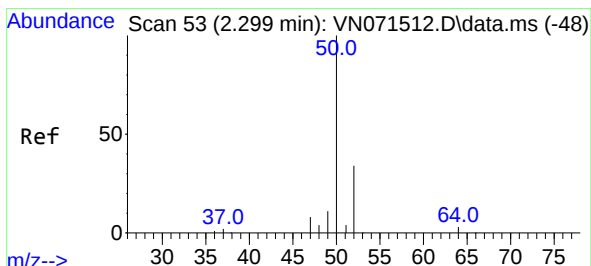
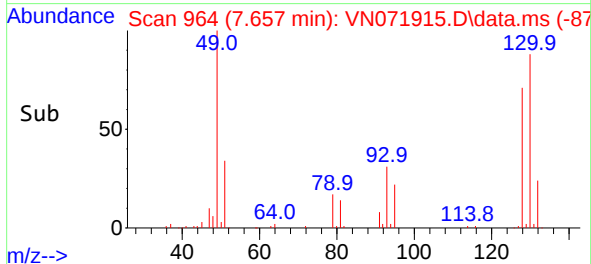
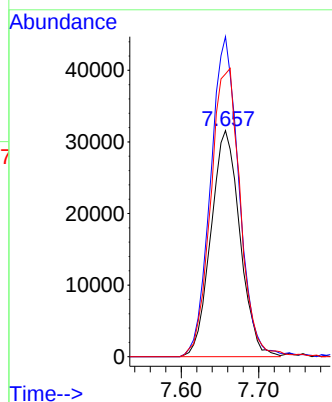


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 7.657 min Scan# 90  
Delta R.T. 0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(APR)

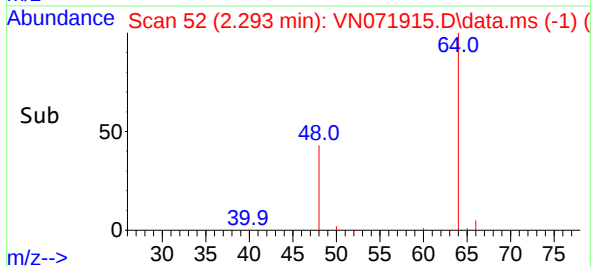
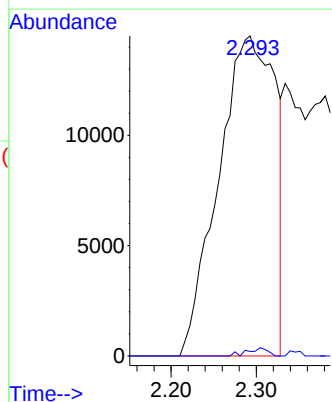
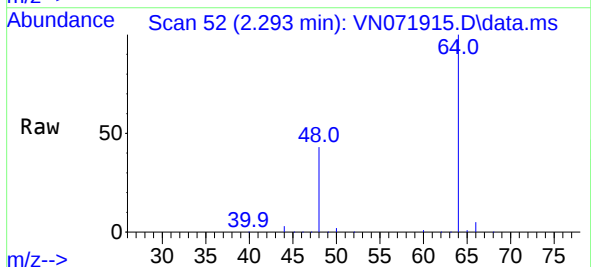


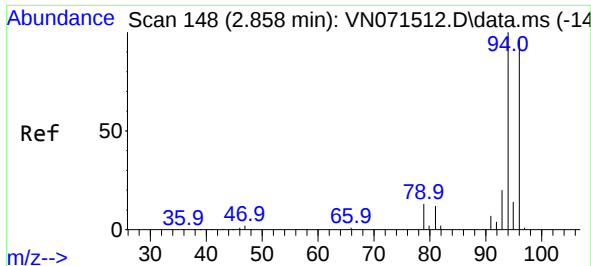
Tgt Ion:128 Resp: 82174  
Ion Ratio Lower Upper  
128 100  
49 137.2 0.0 392.3  
130 128.9 0.0 320.2



#3  
Chloromethane  
Concen: 11.132 ug/l  
RT: 2.293 min Scan# 52  
Delta R.T. -0.006 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Tgt Ion: 50 Resp: 67108  
Ion Ratio Lower Upper  
50 100  
52 1.4 27.8 41.6#

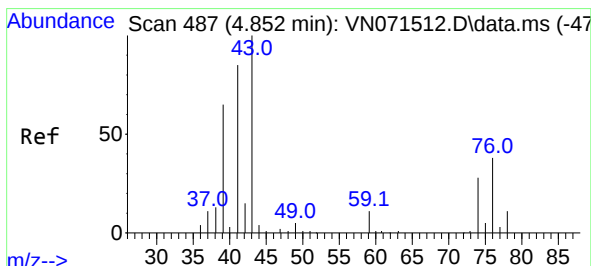
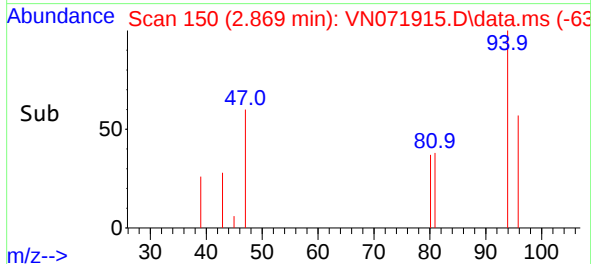
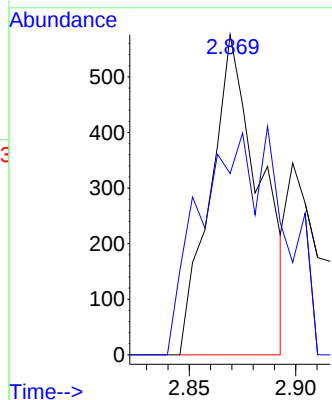
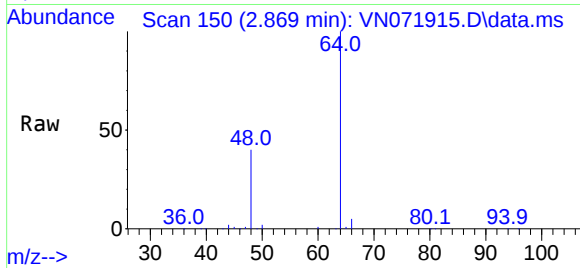




#5  
Bromomethane  
Concen: 0.229 ug/l  
RT: 2.869 min Scan# 11  
Delta R.T. 0.012 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

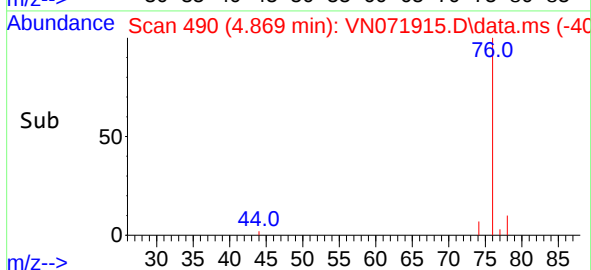
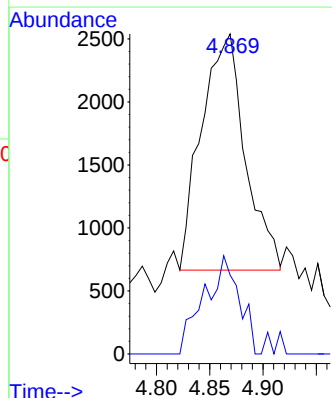
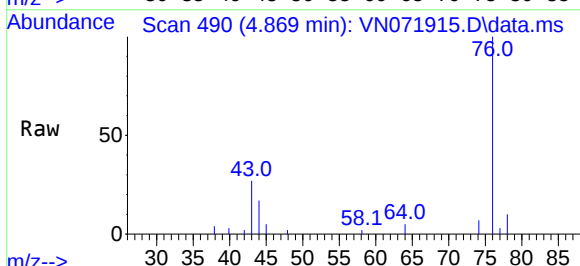
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(APR)

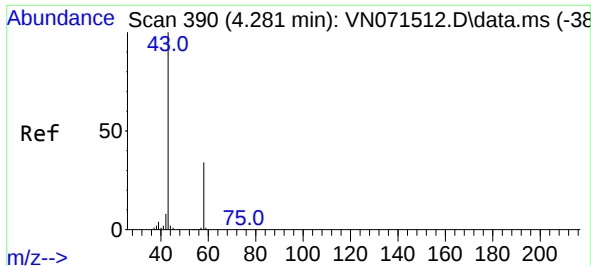
Tgt Ion: 94 Resp: 932  
Ion Ratio Lower Upper  
94 100  
96 30.2 75.2 112.8#



#12  
Methyl Acetate  
Concen: 0.796 ug/l  
RT: 4.869 min Scan# 490  
Delta R.T. 0.018 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Tgt Ion: 43 Resp: 5342  
Ion Ratio Lower Upper  
43 100  
74 28.9 20.8 31.2

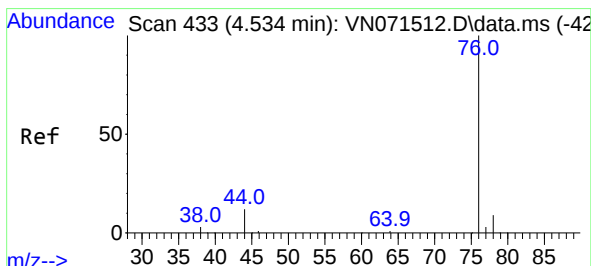
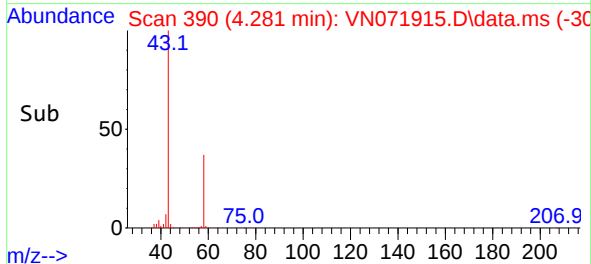
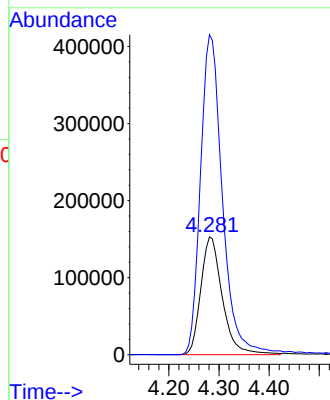
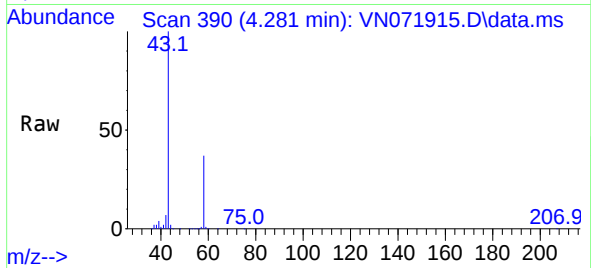




#15  
Acetone  
Concen: 521.239 ug/l  
RT: 4.281 min Scan# 390  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

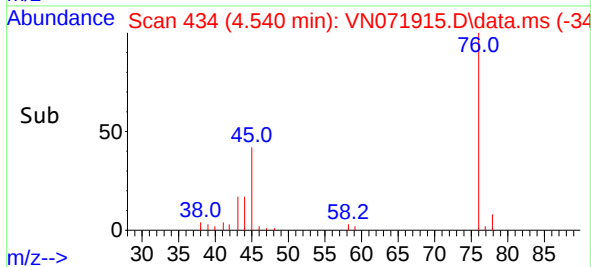
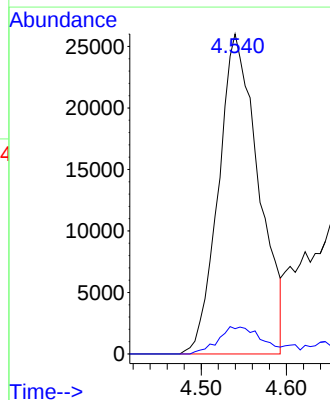
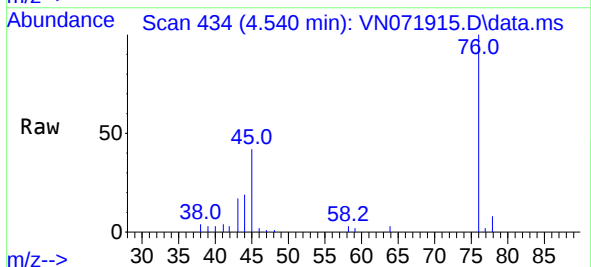
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ClientSampleId :  
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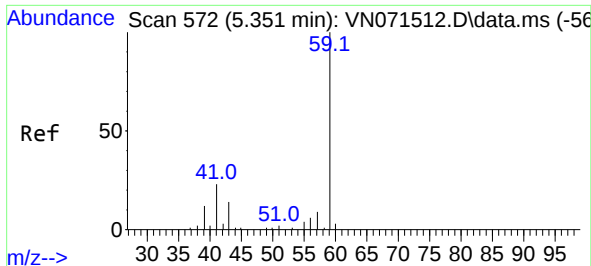
Tgt Ion: 58 Resp: 455809  
Ion Ratio Lower Upper  
58 100  
43 271.4 256.6 384.8



#16  
Carbon Disulfide  
Concen: 6.873 ug/l  
RT: 4.540 min Scan# 434  
Delta R.T. 0.006 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Tgt Ion: 76 Resp: 85192  
Ion Ratio Lower Upper  
76 100  
78 7.9 7.8 11.8

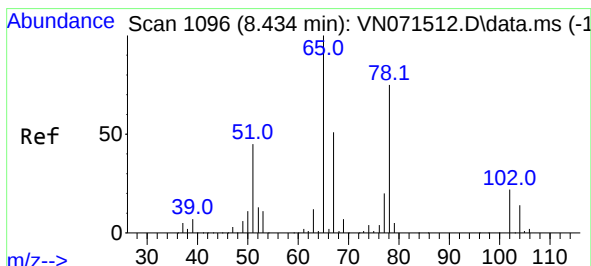
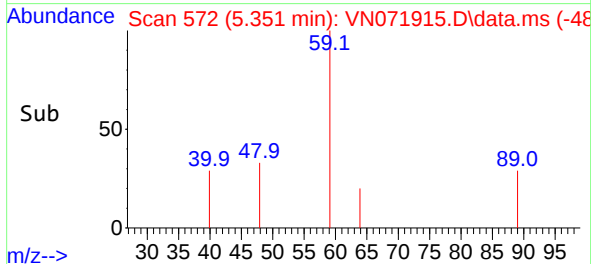
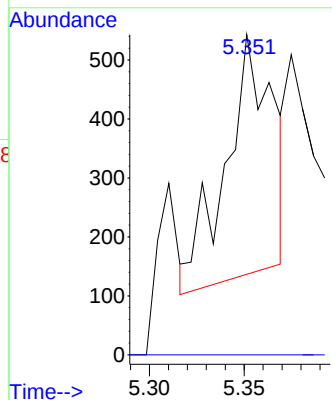
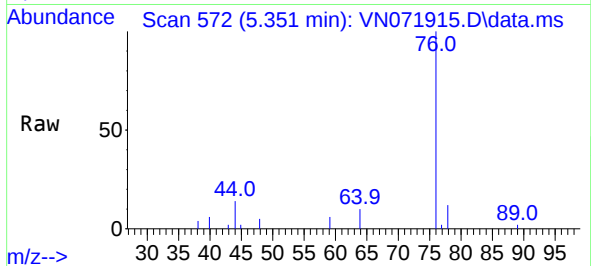




#23  
tert-Butyl Alcohol  
Concen: 0.646 ug/l  
RT: 5.351 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

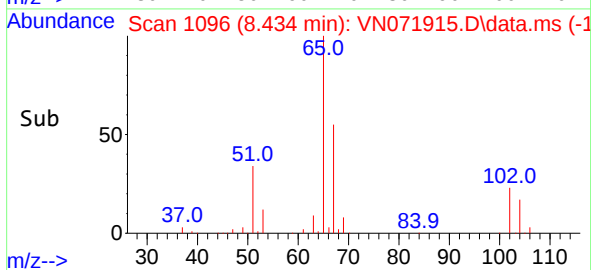
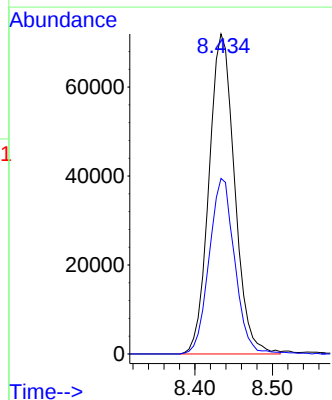
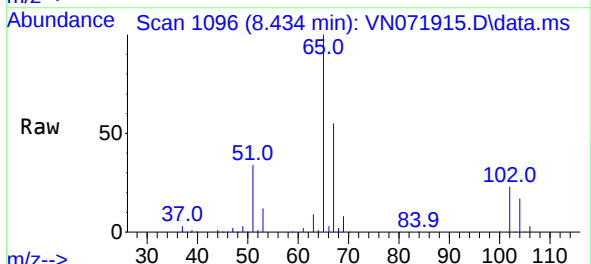
Instrument :  
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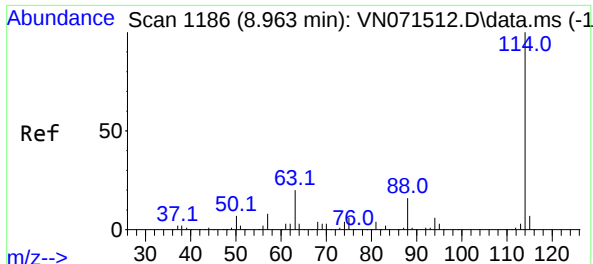
Tgt Ion: 59 Resp: 700  
Ion Ratio Lower Upper  
59 100  
52 0.0 0.0 0.0



#27  
1,2-Dichloroethane-d4  
Concen: 28.644 ug/l  
RT: 8.434 min Scan# 1096  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Tgt Ion: 65 Resp: 165840  
Ion Ratio Lower Upper  
65 100  
67 54.1 40.2 60.2

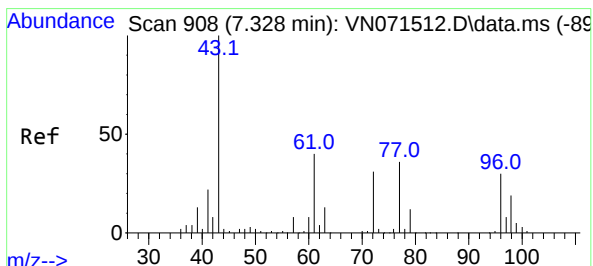
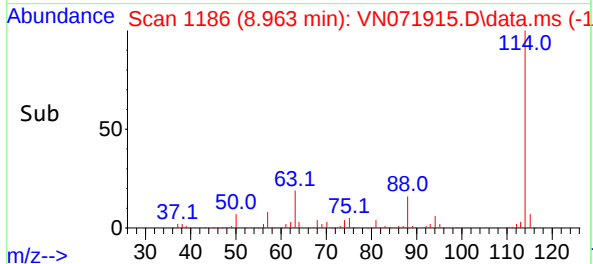
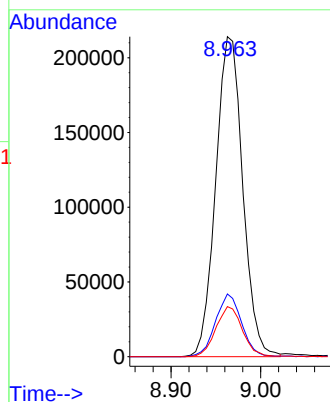
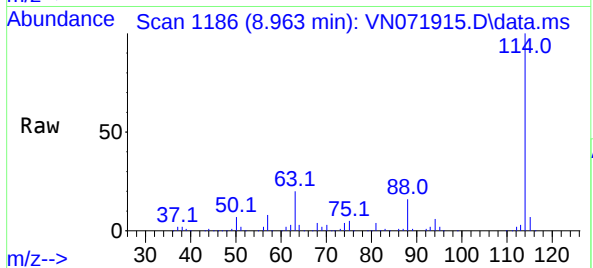




#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 8.963 min Scan# 1186  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

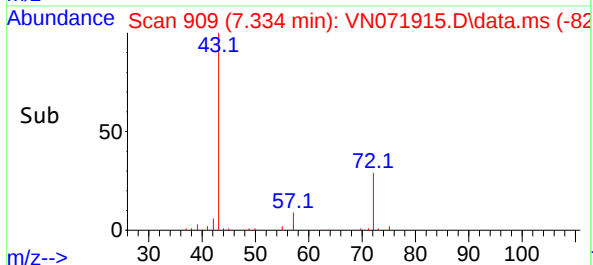
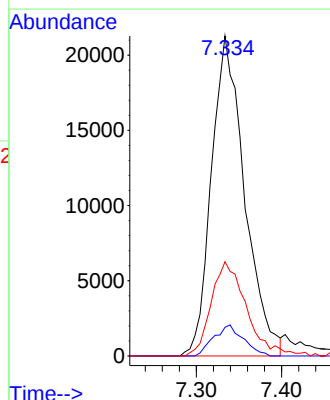
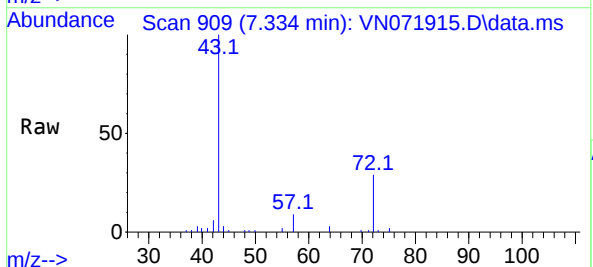
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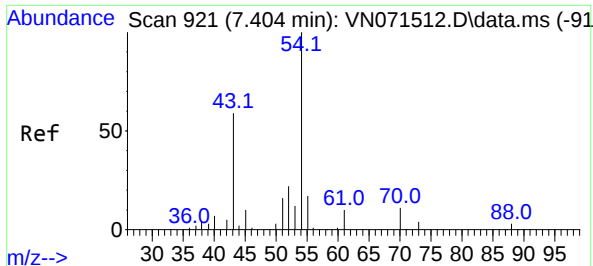
Tgt Ion:114 Resp: 447980  
Ion Ratio Lower Upper  
114 100  
63 18.8 15.8 23.6  
88 15.3 11.6 17.4



#30  
2-Butanone  
Concen: 14.242 ug/l  
RT: 7.334 min Scan# 909  
Delta R.T. 0.006 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Tgt Ion: 43 Resp: 57483  
Ion Ratio Lower Upper  
43 100  
57 8.7 6.7 10.1  
72 29.9 23.2 34.8

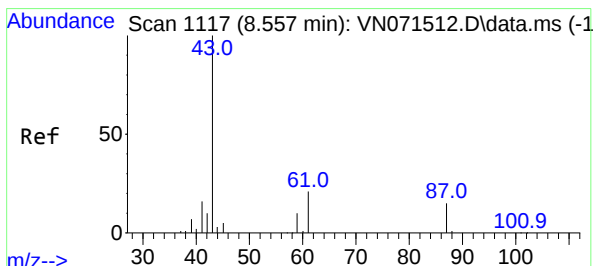
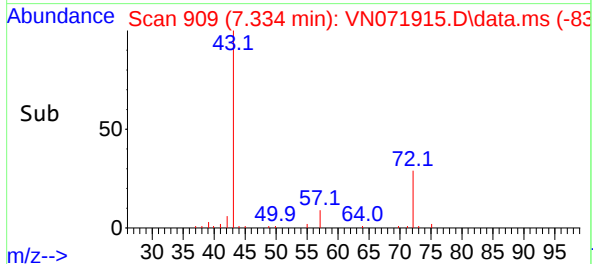
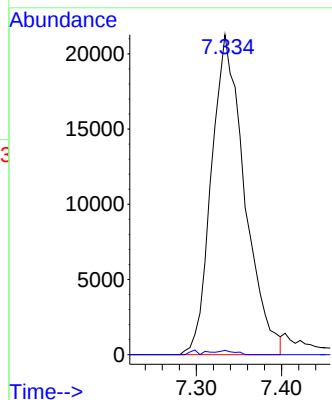
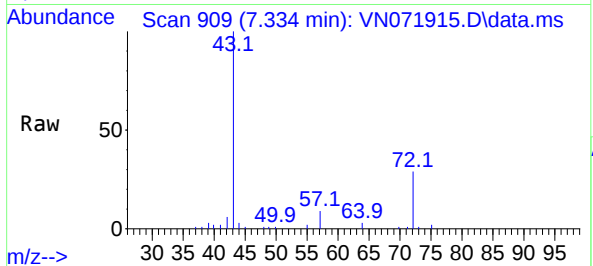




#43  
Ethyl Acetate  
Concen: 7.345 ug/l  
RT: 7.334 min Scan# 90  
Delta R.T. -0.071 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

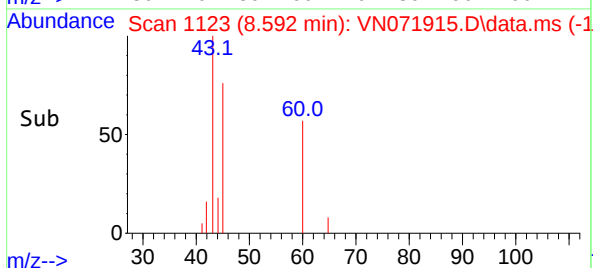
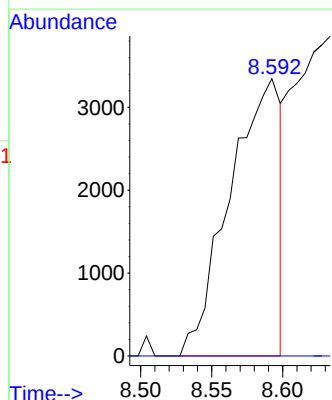
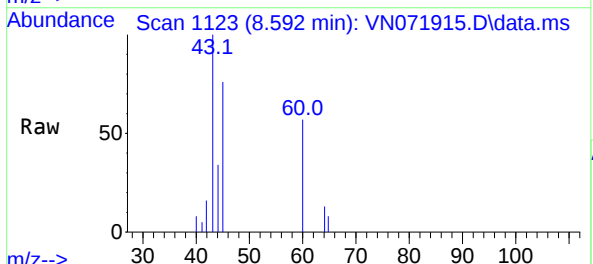
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(APR)

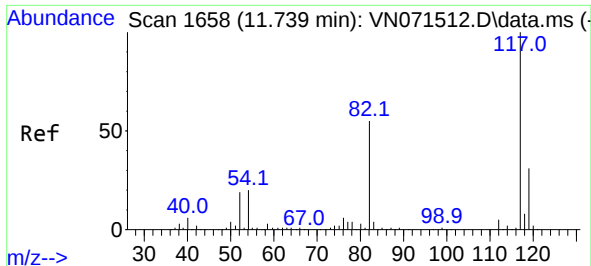
Tgt Ion: 43 Resp: 57483  
Ion Ratio Lower Upper  
43 100  
45 0.2 10.6 16.0#



#44  
Isopropyl Acetate  
Concen: 0.667 ug/l  
RT: 8.592 min Scan# 1123  
Delta R.T. 0.035 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Tgt Ion: 43 Resp: 8379  
Ion Ratio Lower Upper  
43 100  
61 0.0 20.1 30.1#

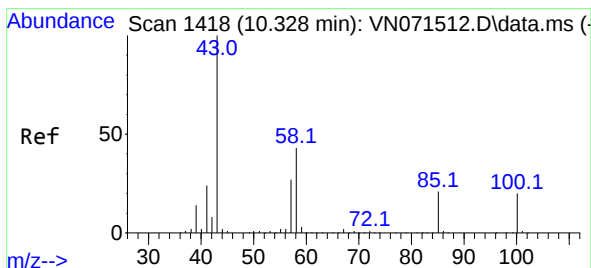
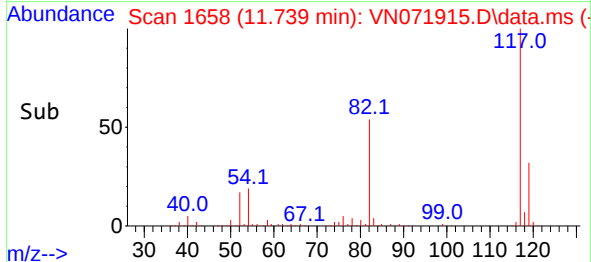
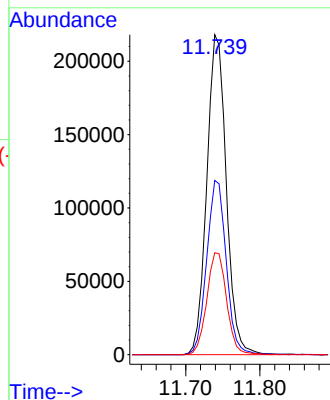
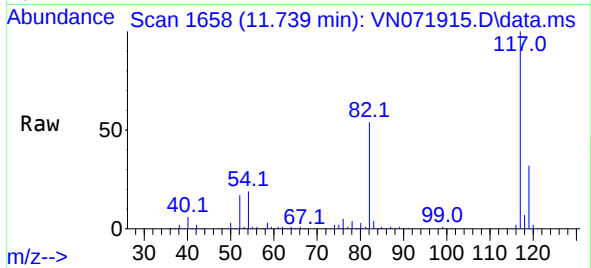




#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 11.739 min Scan# 117  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

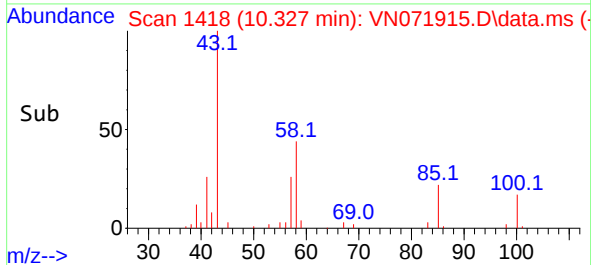
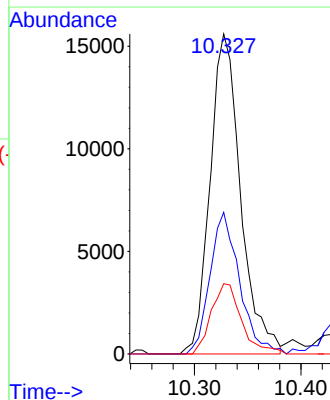
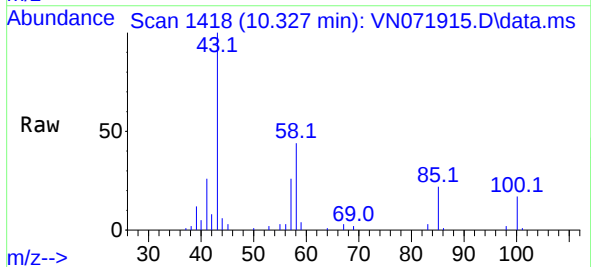
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(APR)

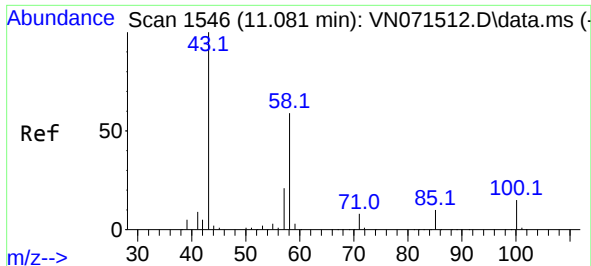
Tgt Ion:117 Resp: 399233  
Ion Ratio Lower Upper  
117 100  
82 54.5 43.6 65.4  
119 32.4 25.8 38.6



#58  
4-Methyl-2-Pentanone  
Concen: 4.099 ug/l  
RT: 10.327 min Scan# 1418  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Tgt Ion: 43 Resp: 31062  
Ion Ratio Lower Upper  
43 100  
58 42.9 30.0 45.0  
85 21.7 15.0 22.6





#59

2-Hexanone

Concen: 0.399 ug/l

RT: 11.086 min Scan# 11

Delta R.T. 0.006 min

Lab File: VN071915.D

Acq: 08 Apr 2022 15:19

Instrument :

MSVOA\_N

ClientSampleId :

001-WILLETS-PT-BLVD(APR)

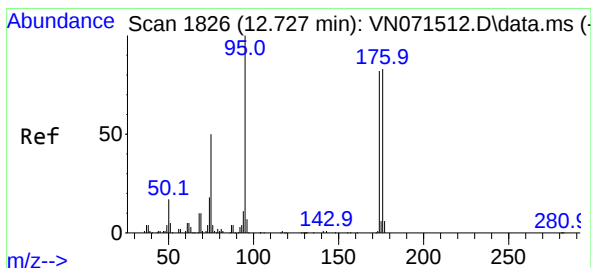
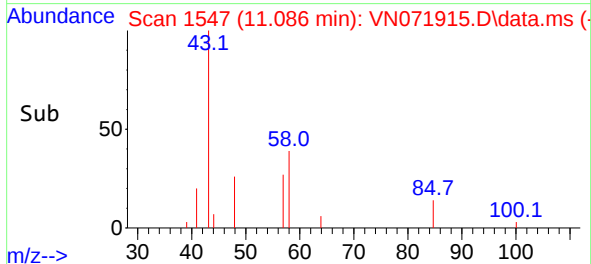
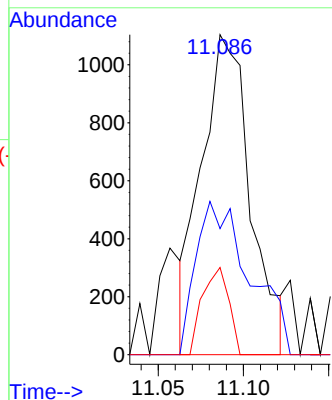
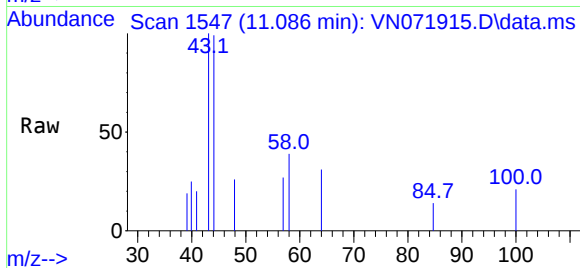
Tgt Ion: 43 Resp: 2210

Ion Ratio Lower Upper

43 100

58 46.0 42.2 63.2

57 14.7 15.0 22.4#



#60

4-Bromofluorobenzene

Concen: 25.138 ug/l

RT: 12.727 min Scan# 1826

Delta R.T. -0.000 min

Lab File: VN071915.D

Acq: 08 Apr 2022 15:19

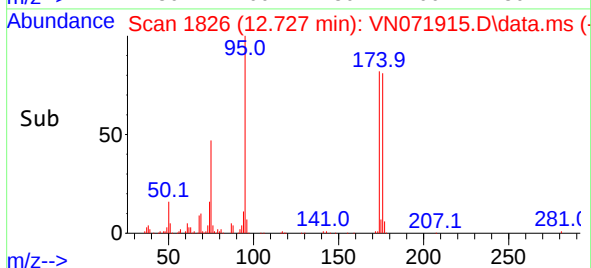
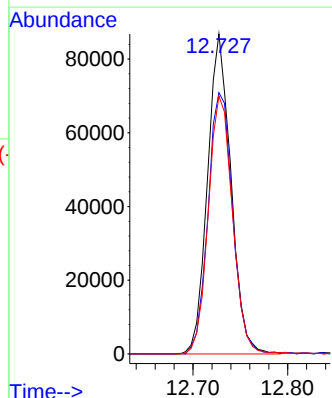
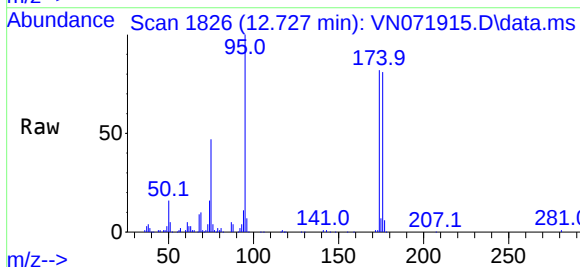
Tgt Ion: 95 Resp: 148810

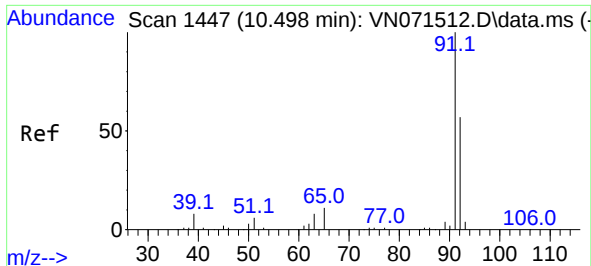
Ion Ratio Lower Upper

95 100

174 85.9 62.9 94.3

176 83.1 61.0 91.4

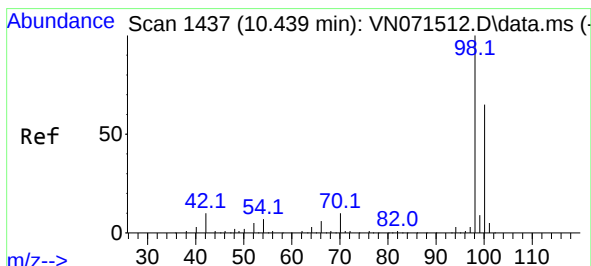
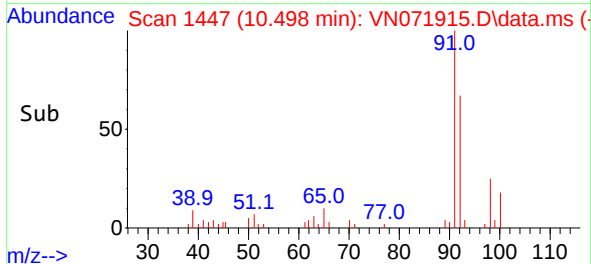
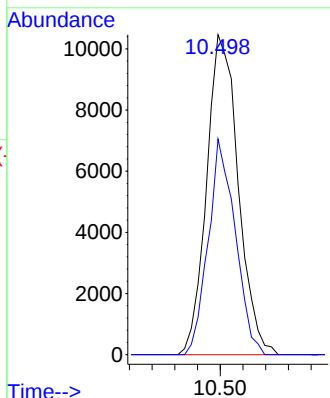
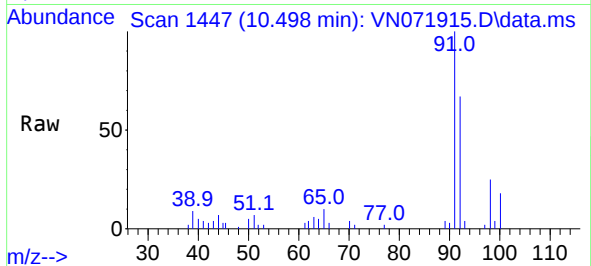




#62  
Toluene  
Concen: 0.835 ug/l  
RT: 10.498 min Scan# 1447  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

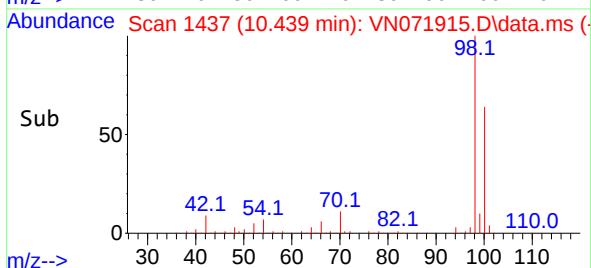
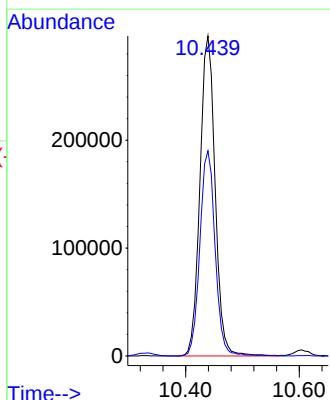
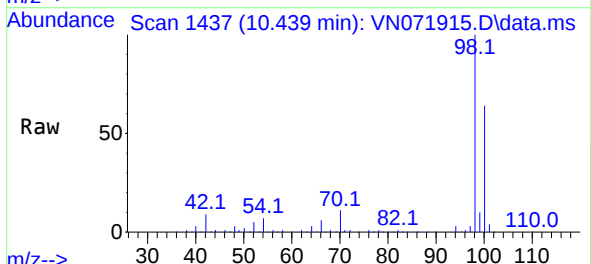
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(APR)

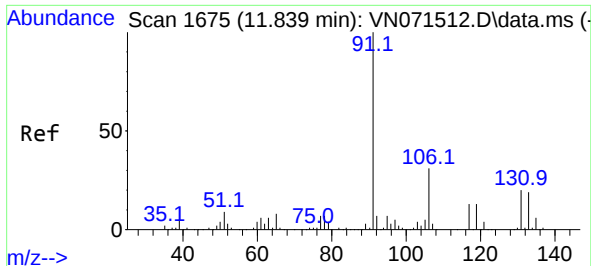
Tgt Ion: 91 Resp: 20219  
Ion Ratio Lower Upper  
91 100  
92 57.7 44.6 67.0



#63  
Toluene-d8  
Concen: 30.355 ug/l  
RT: 10.439 min Scan# 1437  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Tgt Ion: 98 Resp: 550124  
Ion Ratio Lower Upper  
98 100  
100 64.2 50.6 76.0

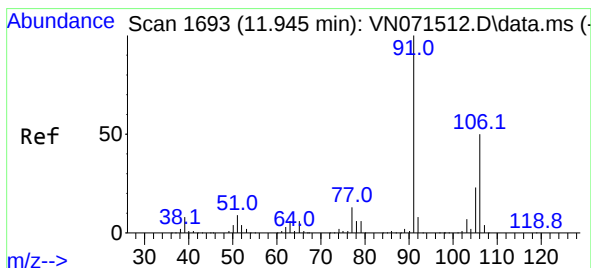
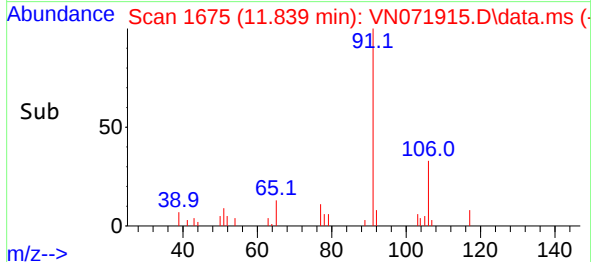
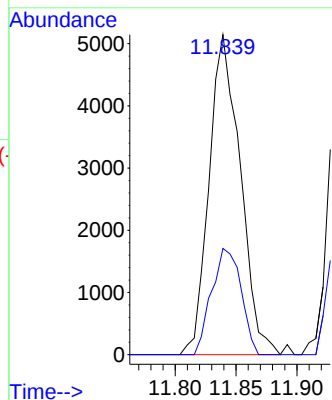
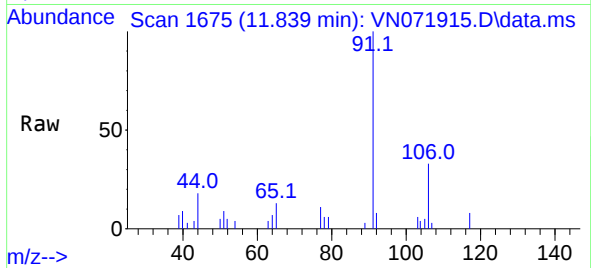




#66  
Ethyl Benzene  
Concen: 0.348 ug/l  
RT: 11.839 min Scan# 1675  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

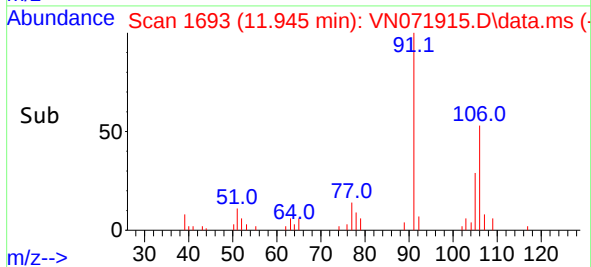
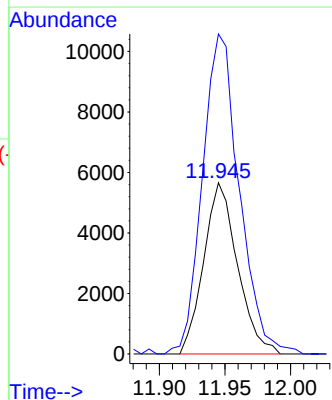
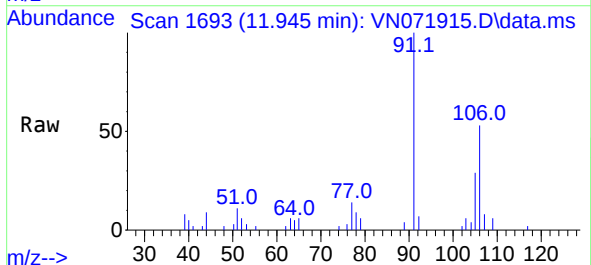
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(APR)

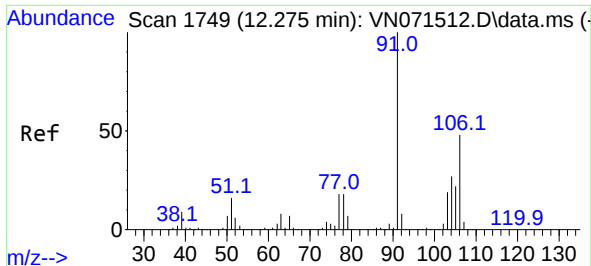
Tgt Ion: 91 Resp: 9166  
Ion Ratio Lower Upper  
91 100  
106 33.2 24.0 36.0



#67  
m/p-Xylenes  
Concen: 0.992 ug/l  
RT: 11.945 min Scan# 1693  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Tgt Ion: 106 Resp: 10151  
Ion Ratio Lower Upper  
106 100  
91 203.8 162.9 244.3

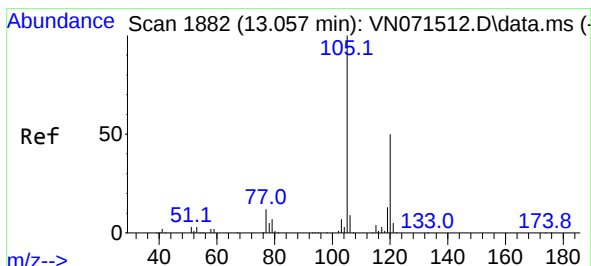
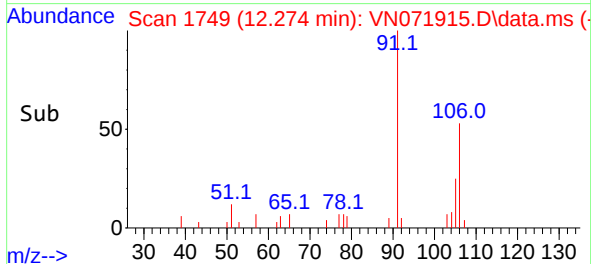
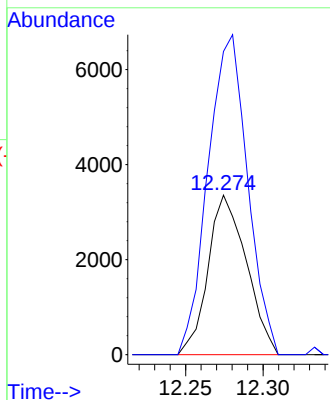
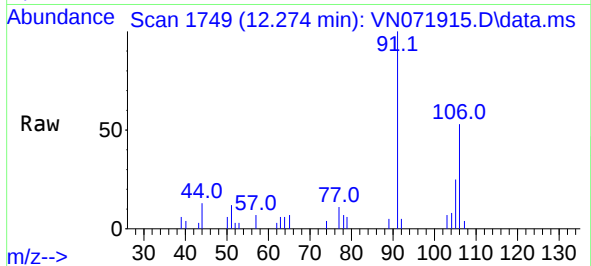




#68  
o-Xylene  
Concen: 0.568 ug/l  
RT: 12.274 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

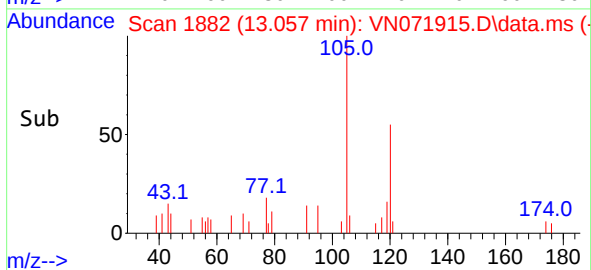
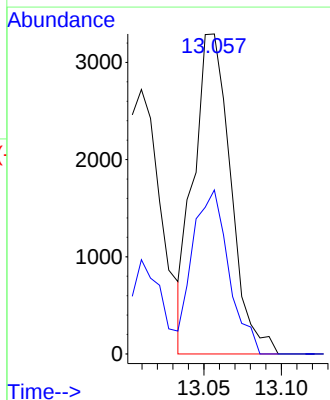
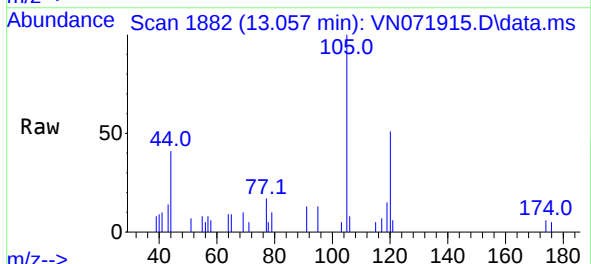
Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(APR)

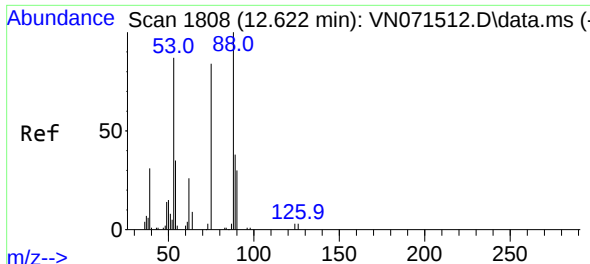
Tgt Ion:106 Resp: 5776  
Ion Ratio Lower Upper  
106 100  
91 206.9 107.7 323.1



#76  
1,3,5-Trimethylbenzene  
Concen: 0.267 ug/l  
RT: 13.057 min Scan# 1882  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Tgt Ion:105 Resp: 5478  
Ion Ratio Lower Upper  
105 100  
120 49.6 0.0 93.8

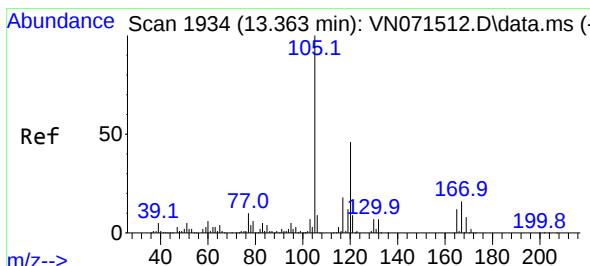
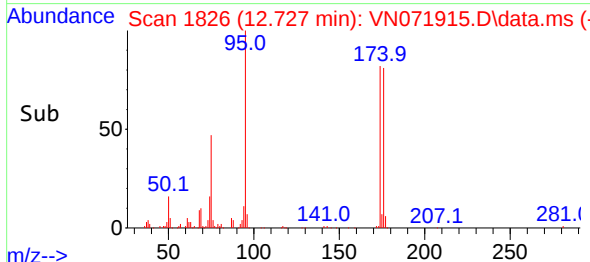
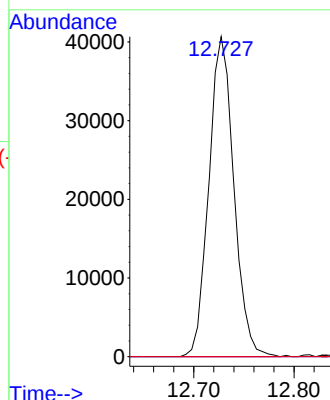
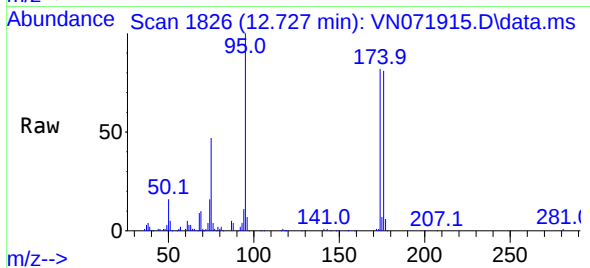




#77  
t-1,4-Dichloro-2-butene  
Concen: 28.160 ug/l  
RT: 12.727 min Scan# 1808  
Delta R.T. 0.106 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

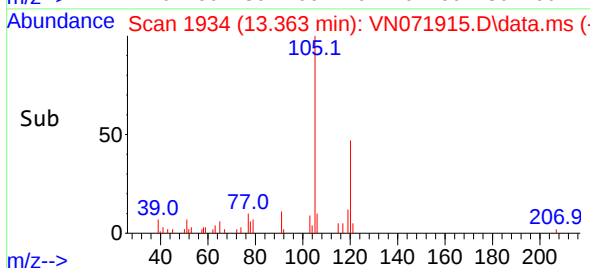
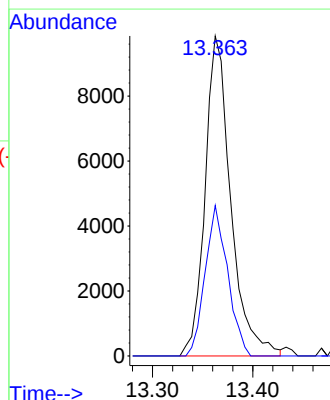
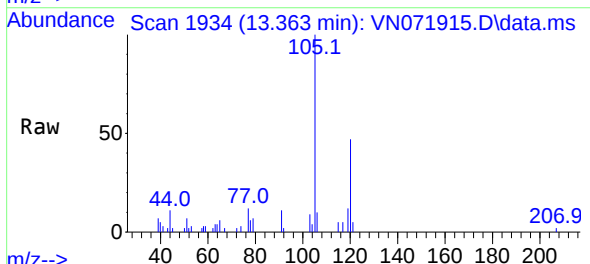
Instrument : MSVOA\_N  
ClientSampleId : 001-WILLETS-PT-BLVD(APR)

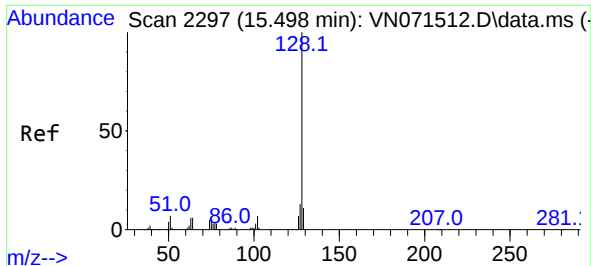
Tgt Ion: 75 Resp: 70584  
Ion Ratio Lower Upper  
75 100  
53 0.0 51.8 155.5#  
89 0.0 22.9 68.7#



#80  
1,2,4-Trimethylbenzene  
Concen: 0.884 ug/l  
RT: 13.363 min Scan# 1934  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Tgt Ion: 105 Resp: 17565  
Ion Ratio Lower Upper  
105 100  
120 41.2 0.0 0.2#

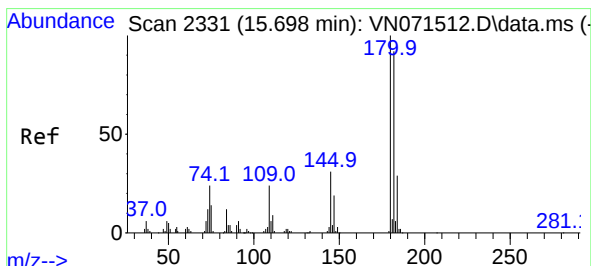
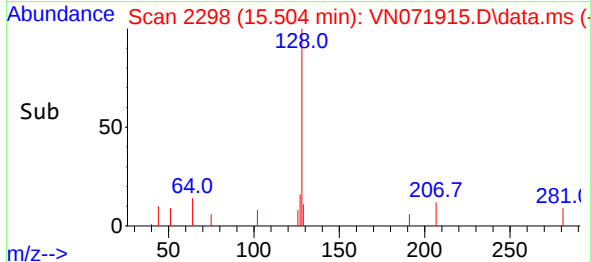
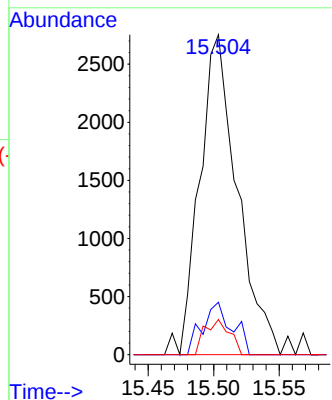
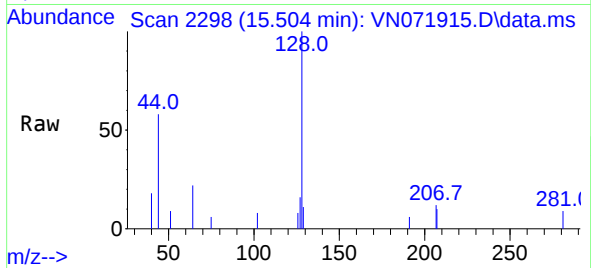




#91  
Naphthalene  
Concen: 7.186 ug/l  
RT: 15.504 min Scan# 21  
Delta R.T. 0.006 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Instrument :  
MSVOA\_N  
ClientSampleId :  
001-WILLETS-PT-BLVD(APR)

Tgt Ion:128 Resp: 5427  
Ion Ratio Lower Upper  
128 100  
127 11.1 10.7 16.1  
129 7.4 9.0 13.6#



#92  
1,2,3-Trichlorobenzene  
Concen: 0.224 ug/l  
RT: 15.698 min Scan# 2331  
Delta R.T. -0.000 min  
Lab File: VN071915.D  
Acq: 08 Apr 2022 15:19

Tgt Ion:180 Resp: 1002  
Ion Ratio Lower Upper  
180 100  
182 54.3 0.0 190.0  
145 22.9 0.0 67.8

