

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021022\  
 Data File : VX026917.D  
 Acq On : 10 Feb 2022 13:56  
 Operator : JC/MD  
 Sample : N1416-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 MSVOA\_X  
 ClientSampleId :  
 001-WILLETS-PT-BLVD(FEB)

Quant Time: Feb 11 03:40:39 2022  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X011022W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Mon Jan 10 12:50:55 2022  
 Response via : Initial Calibration

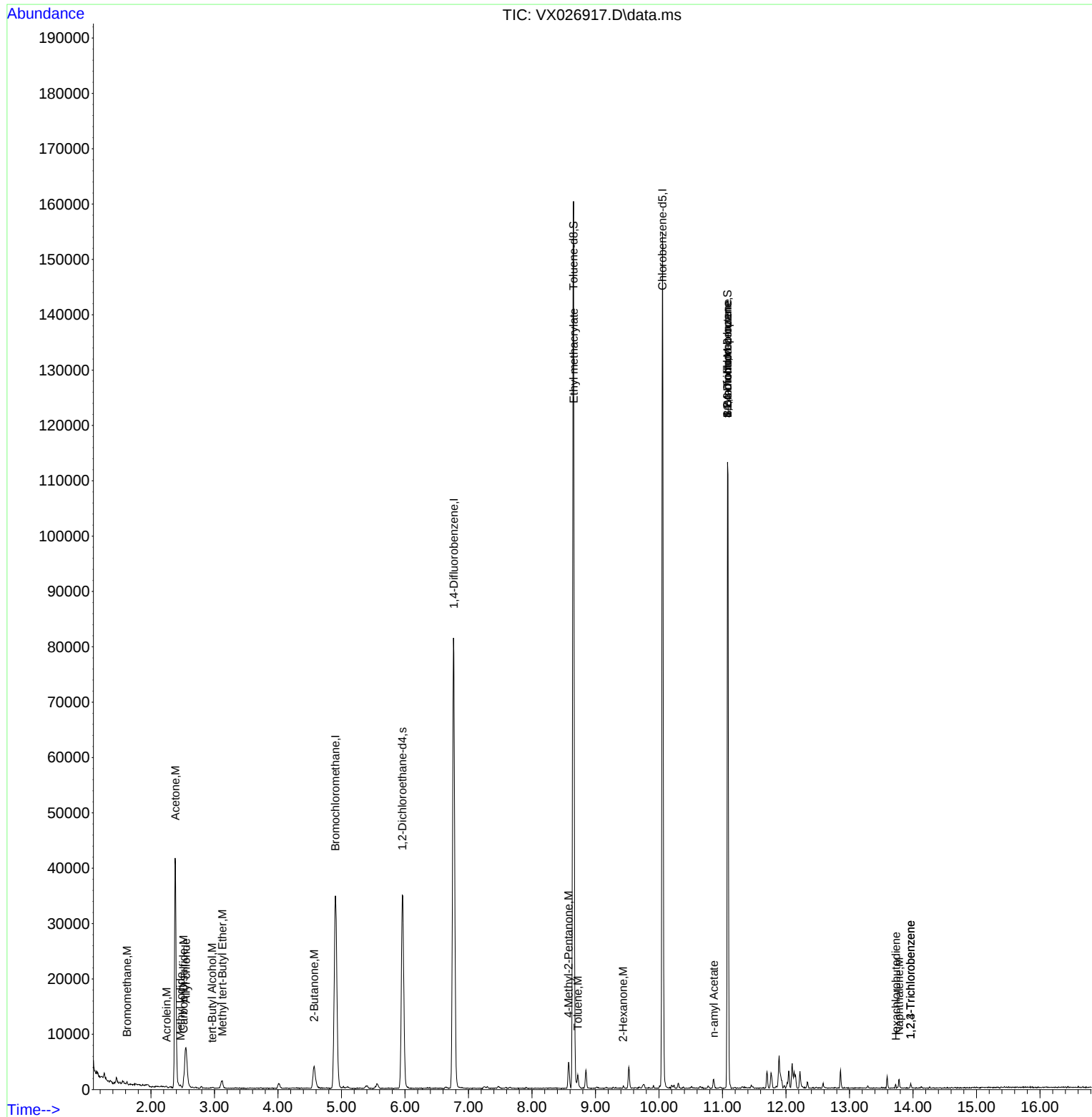
| Compound                    | R.T.   | QIon  | Response | Conc     | Units  | Dev(Min) |
|-----------------------------|--------|-------|----------|----------|--------|----------|
| -----                       |        |       |          |          |        |          |
| Internal Standards          |        |       |          |          |        |          |
| 1) Bromochloromethane       | 4.904  | 128   | 15059    | 30.000   | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.769  | 114   | 82611    | 30.000   | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055 | 117   | 69253    | 30.000   | ug/l   | 0.00     |
| System Monitoring Compounds |        |       |          |          |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.958  | 65    | 34594    | 28.568   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 110 | Recovery | =      | 95.233%  |
| 60) 4-Bromofluorobenzene    | 11.079 | 95    | 32243    | 27.897   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 63 - 112 | Recovery | =      | 93.000%  |
| 63) Toluene-d8              | 8.653  | 98    | 95602    | 30.050   | ug/l   | 0.00     |
| Spiked Amount               | 30.000 | Range | 91 - 112 | Recovery | =      | 100.167% |
| Target Compounds            |        |       |          |          |        |          |
|                             |        |       |          |          | Qvalue |          |
| 5) Bromomethane             | 1.624  | 94    | 218      | 0.553    | ug/l   | 97       |
| 11) Methyl Iodide           | 2.465  | 142   | 474      | 0.539    | ug/l # | 85       |
| 13) Acrolein                | 2.246  | 56    | 131      | 0.745    | ug/l # | 52       |
| 15) Acetone                 | 2.386  | 58    | 14167    | 95.346   | ug/l   | 81       |
| 16) Carbon Disulfide        | 2.514  | 76    | 2270     | 0.993    | ug/l # | 91       |
| 17) Allyl chloride          | 2.550  | 41    | 983      | 0.631    | ug/l   | 97       |
| 23) tert-Butyl Alcohol      | 2.965  | 59    | 334      | 1.947    | ug/l # | 100      |
| 24) Methyl tert-Butyl Ether | 3.123  | 73    | 1672     | 0.555    | ug/l   | 99       |
| 30) 2-Butanone              | 4.568  | 43    | 7729     | 10.431   | ug/l # | 96       |
| 47) n-amyl Acetate          | 10.866 | 43    | 481      | 0.289    | ug/l # | 29       |
| 51) Ethyl methacrylate      | 8.659  | 69    | 335      | 0.240    | ug/l   | 90       |
| 56) Bromoform               | 11.079 | 173   | 245      | 0.389    | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 8.574  | 43    | 3156     | 2.443    | ug/l   | 97       |
| 59) 2-Hexanone              | 9.433  | 43    | 243      | 0.243    | ug/l # | 78       |
| 62) Toluene                 | 8.720  | 91    | 1380     | 0.373    | ug/l   | 97       |
| 72) 1,2,3-Trichloropropane  | 11.079 | 75    | 15799    | 14.294   | ug/l   | 39       |
| 77) t-1,4-Dichloro-2-butene | 11.079 | 75    | 15799    | 47.526   | ug/l # | 3        |
| 89) 1,2,4-Trichlorobenzene  | 13.963 | 180   | 320      | 0.299    | ug/l   | 90       |
| 90) Hexachlorobutadiene     | 13.731 | 225   | 132      | 0.282    | ug/l   | 85       |
| 91) Naphthalene             | 13.780 | 128   | 1334     | 0.360    | ug/l # | 91       |
| 92) 1,2,3-Trichlorobenzene  | 13.963 | 180   | 320      | 0.300    | ug/l   | 89       |
| -----                       |        |       |          |          |        |          |

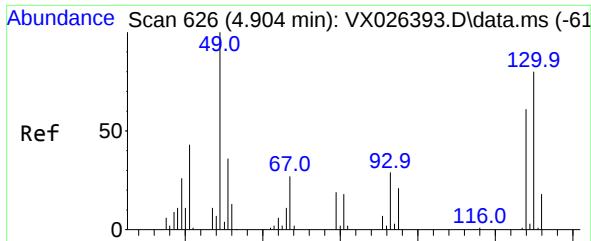
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX021022\  
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Instrument :  
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ClientSampleId :  
001-WILLETS-PT-BLVD(FEB)

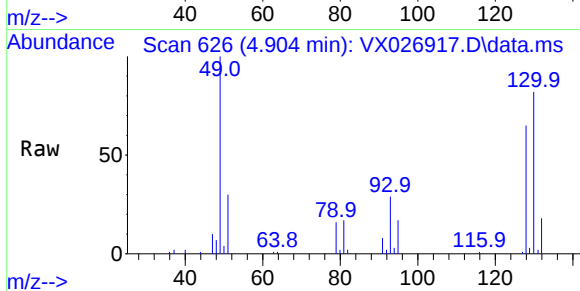
Quant Time: Feb 11 03:40:39 2022  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X011022W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Mon Jan 10 12:50:55 2022  
Response via : Initial Calibration



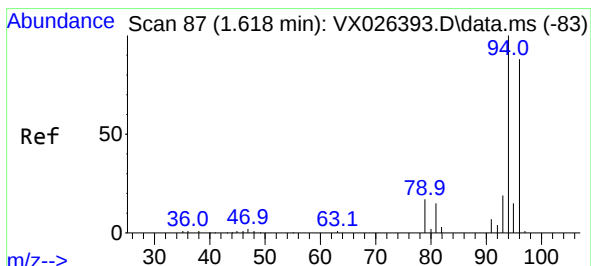
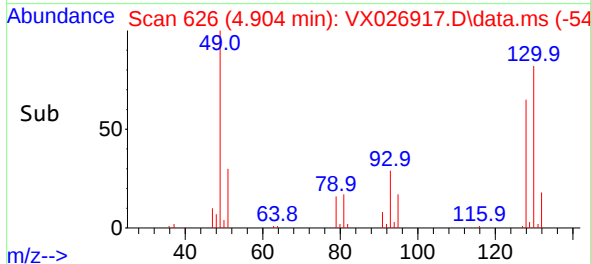
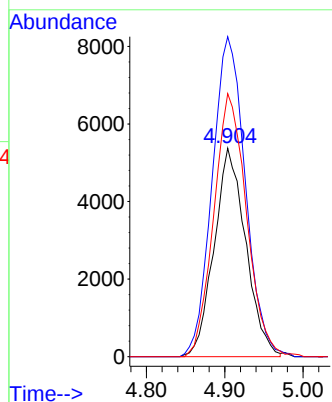


#1  
Bromochloromethane  
Concen: 30.000 ug/l  
RT: 4.904 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(FEB)

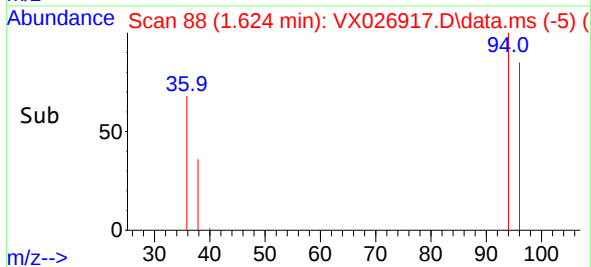
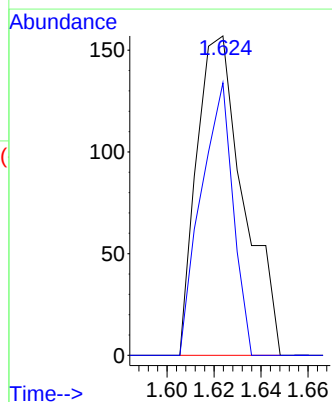
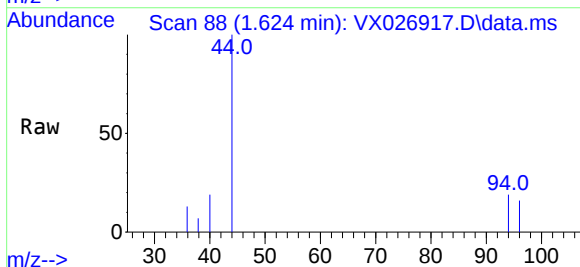


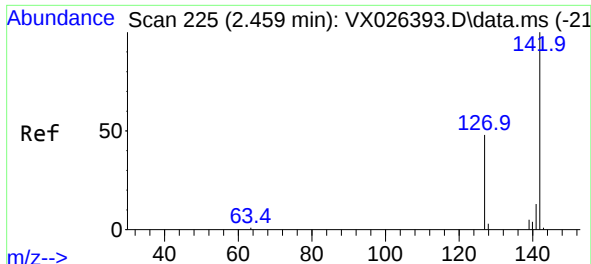
Tgt Ion:128 Resp: 15059  
Ion Ratio Lower Upper  
128 100  
49 161.2 0.0 413.5  
130 130.6 0.0 326.0



#5  
Bromomethane  
Concen: 0.553 ug/l  
RT: 1.624 min Scan# 88  
Delta R.T. 0.006 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

Tgt Ion: 94 Resp: 218  
Ion Ratio Lower Upper  
94 100  
96 85.4 70.3 105.5





#11

Methyl Iodide

Concen: 0.539 ug/l

RT: 2.465 min Scan# 21

Delta R.T. 0.006 min

Lab File: VX026917.D

Acq: 10 Feb 2022 13:56

Instrument :

MSVOA\_X

ClientSampleId :

001-WILLETS-PT-BLVD(FEB)

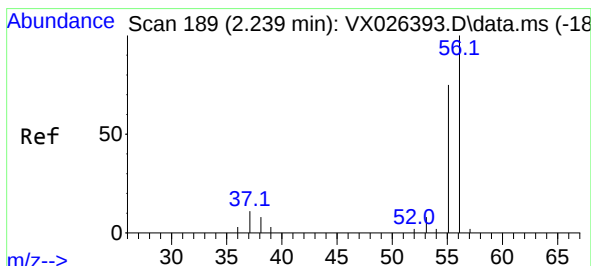
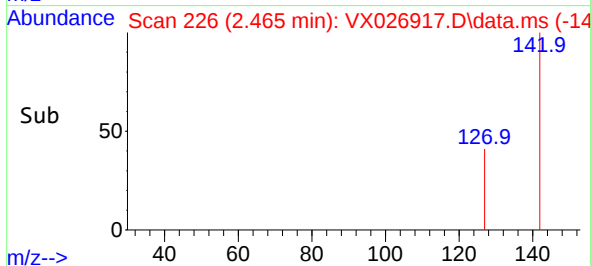
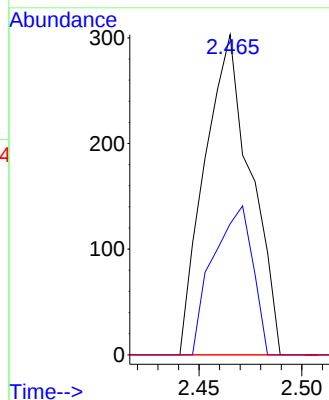
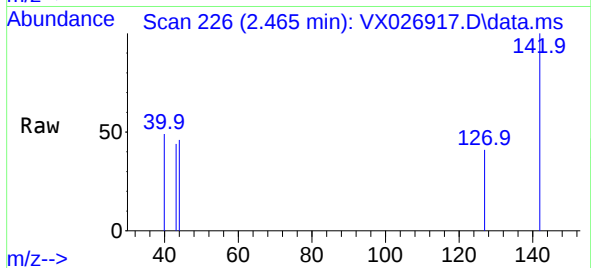
Tgt Ion:142 Resp: 474

Ion Ratio Lower Upper

142 100

127 40.9 23.9 71.7

141 0.0 6.7 20.1#



#13

Acrolein

Concen: 0.745 ug/l

RT: 2.246 min Scan# 190

Delta R.T. 0.006 min

Lab File: VX026917.D

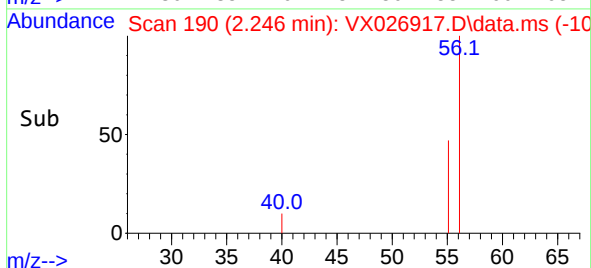
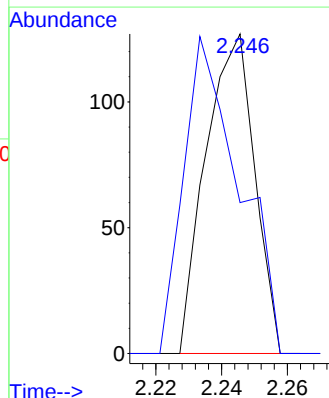
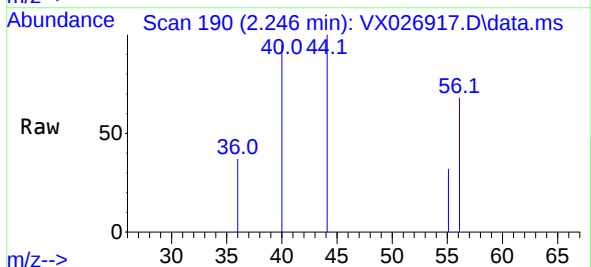
Acq: 10 Feb 2022 13:56

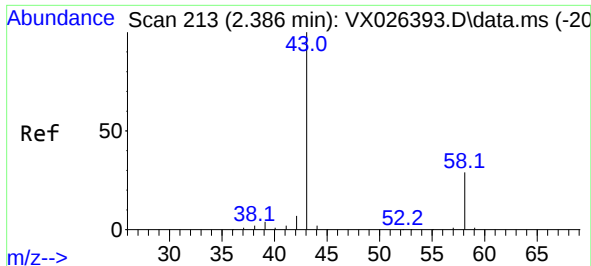
Tgt Ion: 56 Resp: 131

Ion Ratio Lower Upper

56 100

55 113.0 58.2 87.2#





#15

Acetone

Concen: 95.346 ug/l

RT: 2.386 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX026917.D

Acq: 10 Feb 2022 13:56

Instrument :

MSVOA\_X

ClientSampleId :

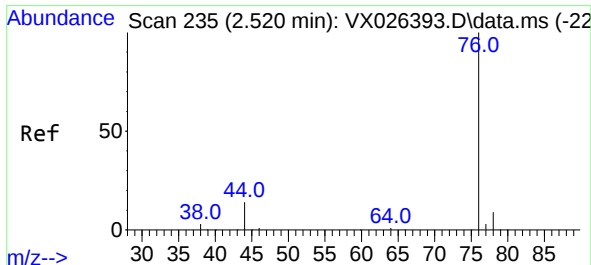
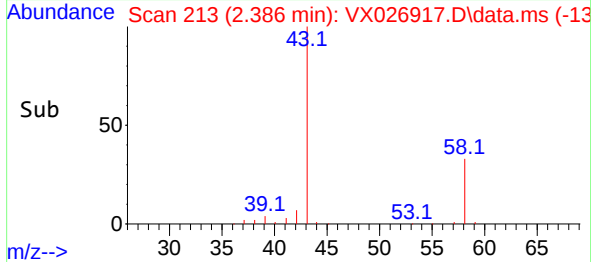
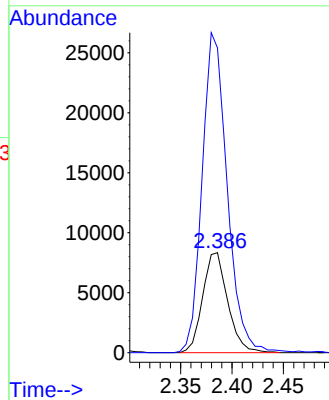
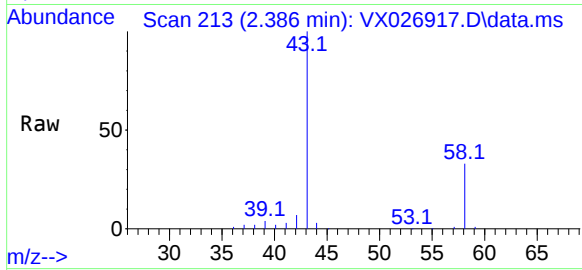
001-WILLETS-PT-BLVD(FEB)

Tgt Ion: 58 Resp: 14167

Ion Ratio Lower Upper

58 100

43 303.5 276.3 414.5



#16

Carbon Disulfide

Concen: 0.993 ug/l

RT: 2.514 min Scan# 234

Delta R.T. -0.006 min

Lab File: VX026917.D

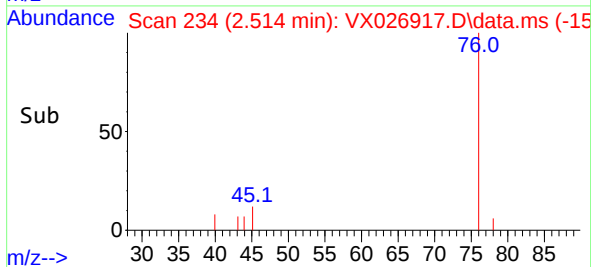
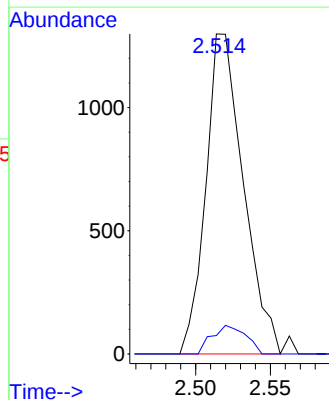
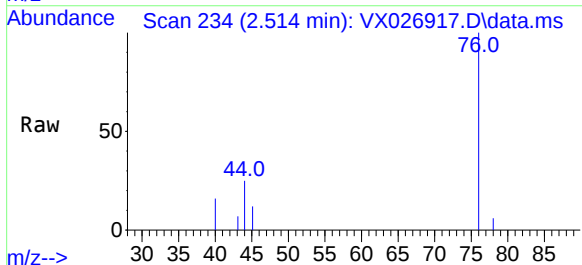
Acq: 10 Feb 2022 13:56

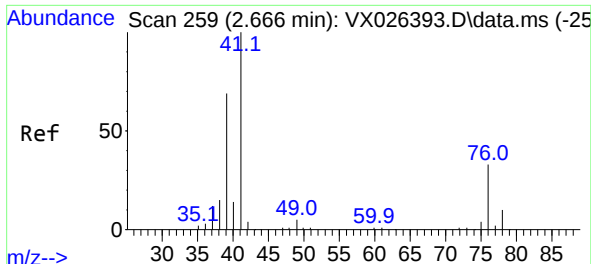
Tgt Ion: 76 Resp: 2270

Ion Ratio Lower Upper

76 100

78 5.8 7.3 10.9#

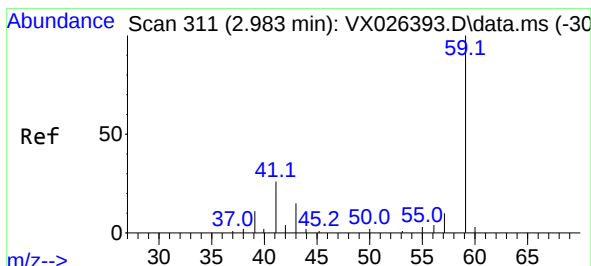
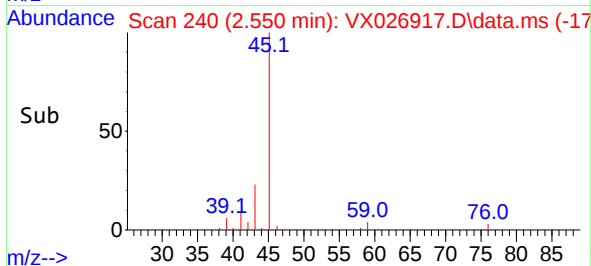
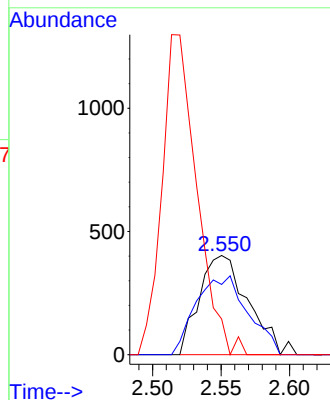
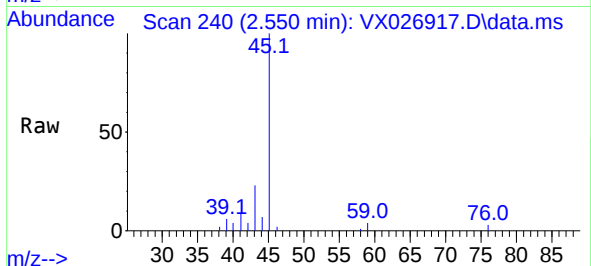




#17  
 Allyl chloride  
 Concen: 0.631 ug/l  
 RT: 2.550 min Scan# 24  
 Delta R.T. -0.116 min  
 Lab File: VX026917.D  
 Acq: 10 Feb 2022 13:56

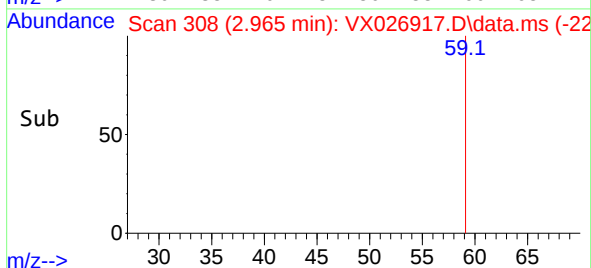
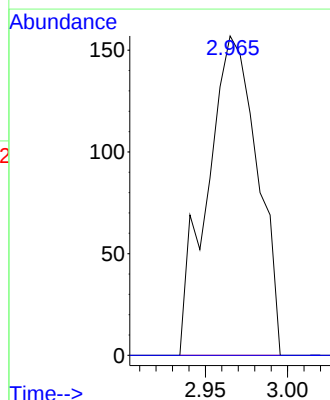
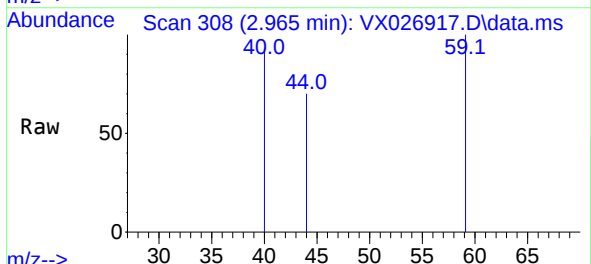
Instrument :  
 MSVOA\_X  
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 001-WILLETS-PT-BLVD(FEB)

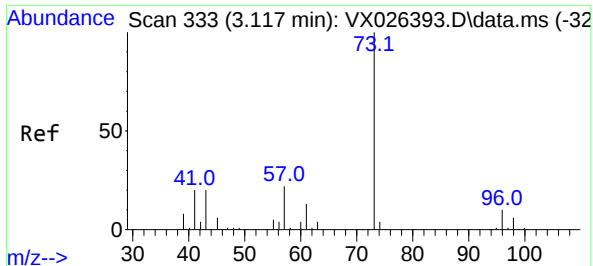
|             |                 |
|-------------|-----------------|
| Tgt Ion: 41 | Resp: 983       |
| Ion Ratio   | Lower Upper     |
| 41          | 100             |
| 39          | 70.7 34.5 103.5 |
| 76          | 36.0 16.7 50.0  |



#23  
 tert-Butyl Alcohol  
 Concen: 1.947 ug/l  
 RT: 2.965 min Scan# 308  
 Delta R.T. -0.018 min  
 Lab File: VX026917.D  
 Acq: 10 Feb 2022 13:56

|             |             |
|-------------|-------------|
| Tgt Ion: 59 | Resp: 334   |
| Ion Ratio   | Lower Upper |
| 59          | 100         |
| 52          | 0.0 0.0 0.0 |

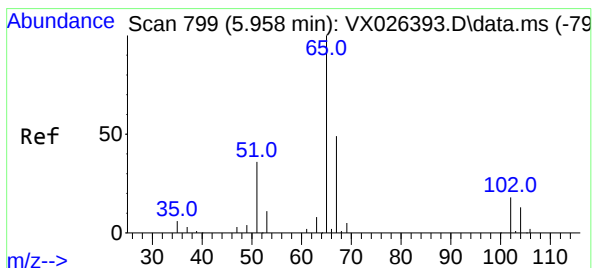
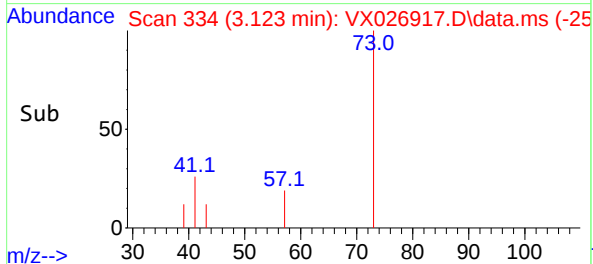
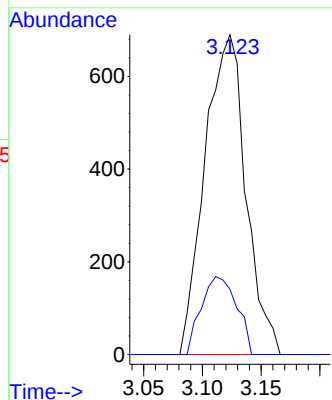
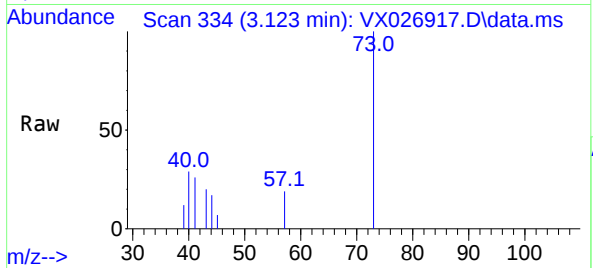




#24  
Methyl tert-Butyl Ether  
Concen: 0.555 ug/l  
RT: 3.123 min Scan# 31  
Delta R.T. 0.006 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

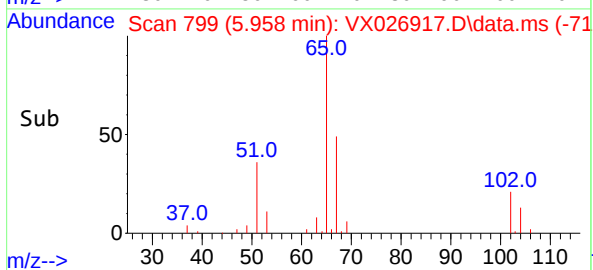
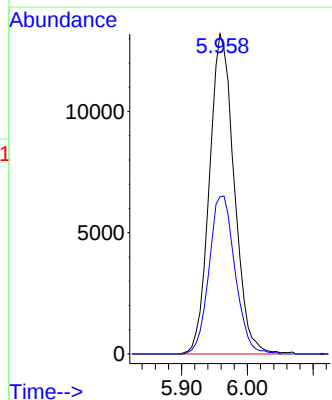
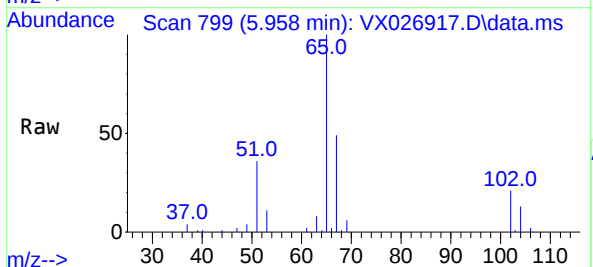
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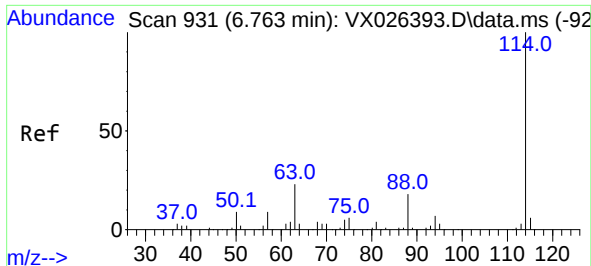
Tgt Ion: 73 Resp: 1672  
Ion Ratio Lower Upper  
73 100  
43 21.1 17.1 25.7



#27  
1,2-Dichloroethane-d4  
Concen: 28.568 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

Tgt Ion: 65 Resp: 34594  
Ion Ratio Lower Upper  
65 100  
67 51.7 39.6 59.4





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX026917.D

Acq: 10 Feb 2022 13:56

Instrument :

MSVOA\_X

ClientSampleId :

001-WILLETS-PT-BLVD(FEB)

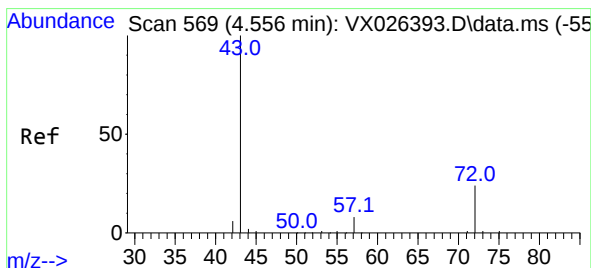
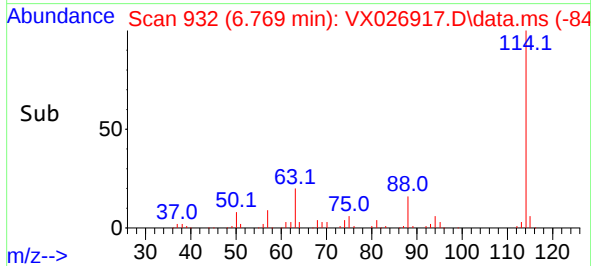
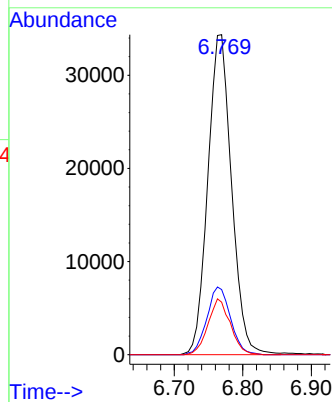
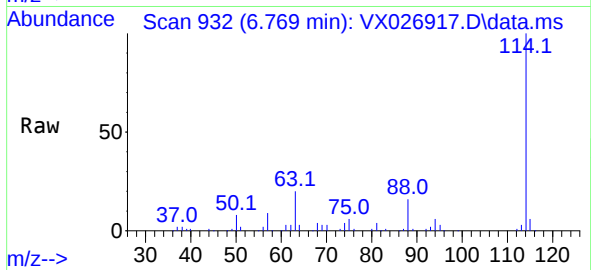
Tgt Ion:114 Resp: 82611

Ion Ratio Lower Upper

114 100

63 21.0 17.4 26.2

88 16.4 13.5 20.3



#30

2-Butanone

Concen: 10.431 ug/l

RT: 4.568 min Scan# 571

Delta R.T. 0.012 min

Lab File: VX026917.D

Acq: 10 Feb 2022 13:56

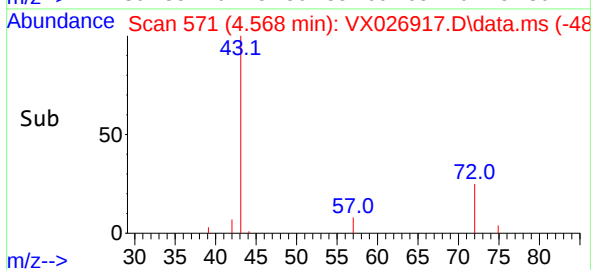
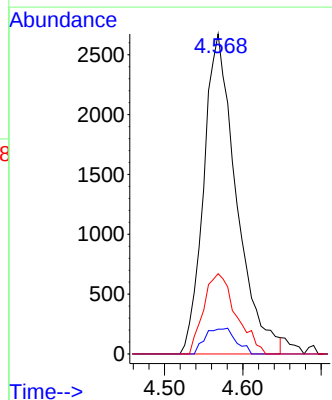
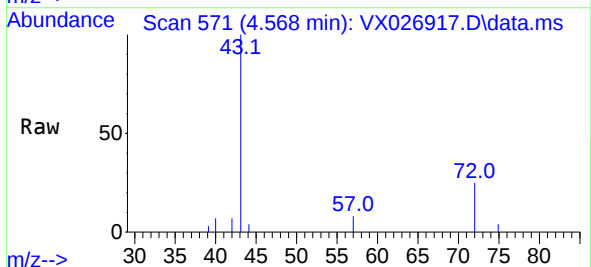
Tgt Ion: 43 Resp: 7729

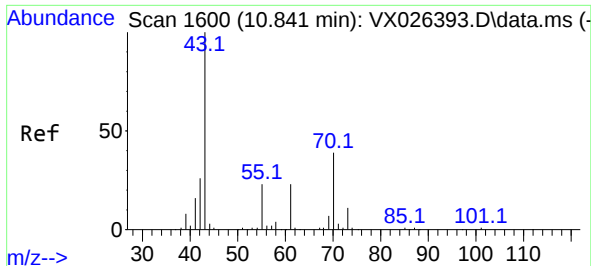
Ion Ratio Lower Upper

43 100

57 2.8 6.3 9.5

72 24.9 19.8 29.6





#47

n-amyl acetate

Concen: 0.289 ug/l

RT: 10.866 min Scan# 11

Delta R.T. 0.025 min

Lab File: VX026917.D

Acq: 10 Feb 2022 13:56

Instrument :

MSVOA\_X

ClientSampleId :

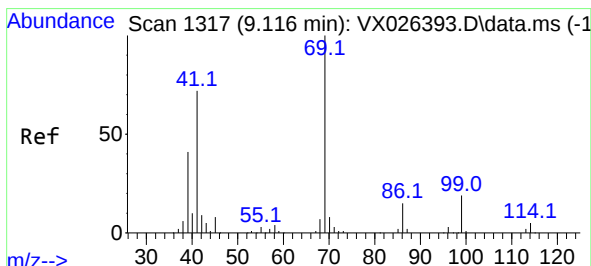
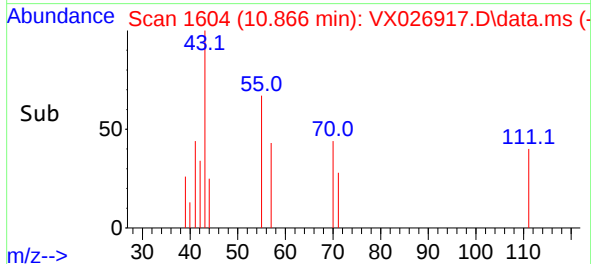
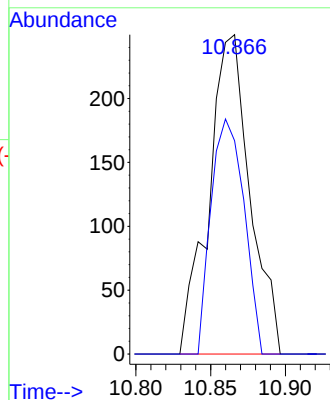
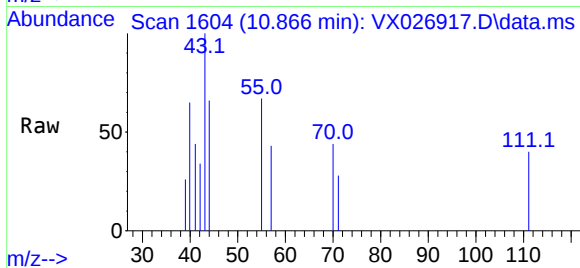
001-WILLETS-PT-BLVD(FEB)

Tgt Ion: 43 Resp: 481

Ion Ratio Lower Upper

43 100

55 58.6 18.9 28.3#



#51

Ethyl methacrylate

Concen: 0.240 ug/l

RT: 8.659 min Scan# 1242

Delta R.T. -0.457 min

Lab File: VX026917.D

Acq: 10 Feb 2022 13:56

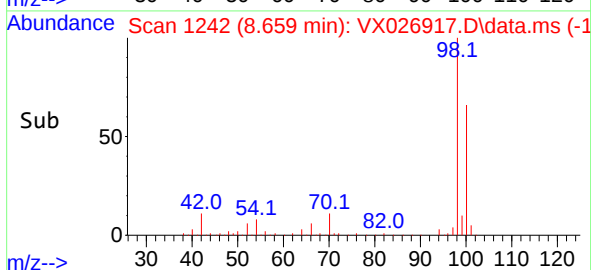
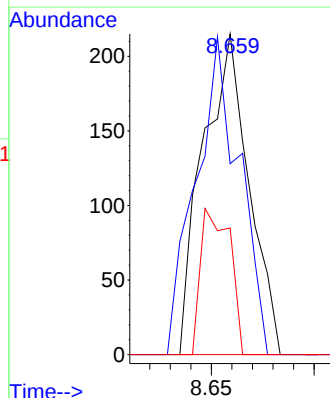
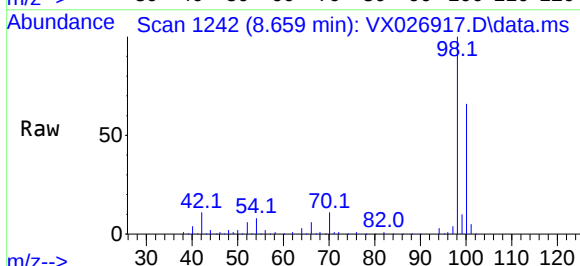
Tgt Ion: 69 Resp: 335

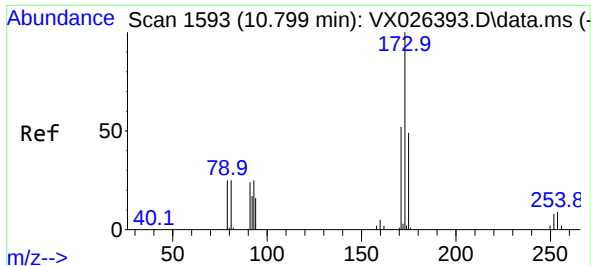
Ion Ratio Lower Upper

69 100

41 59.5 35.9 107.7

39 39.5 20.3 61.0

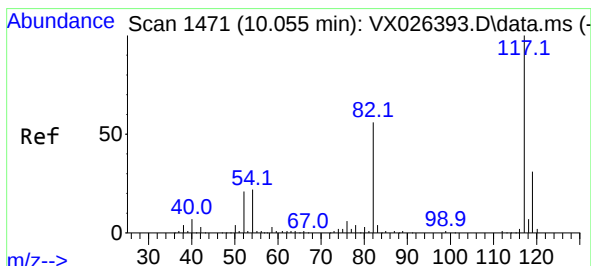
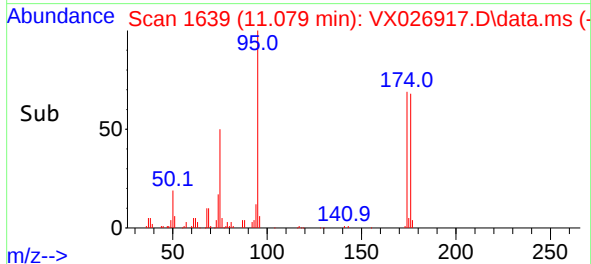
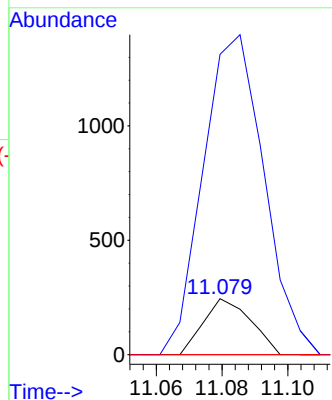
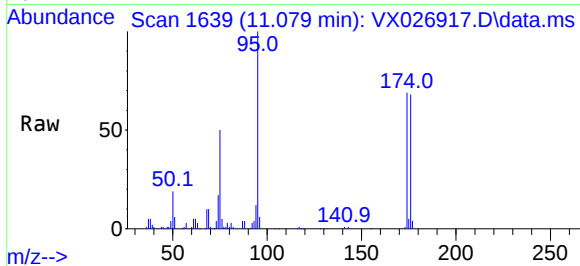




#56  
Bromoform  
Concen: 0.389 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. 0.281 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

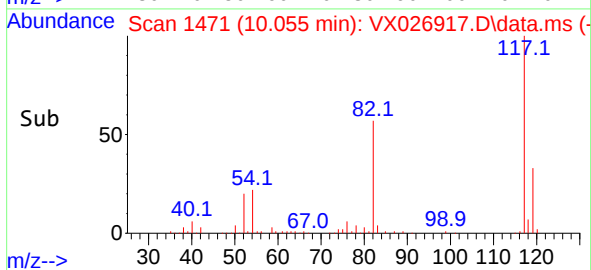
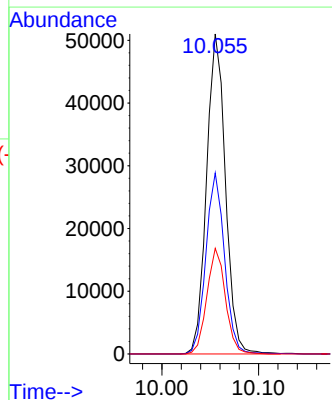
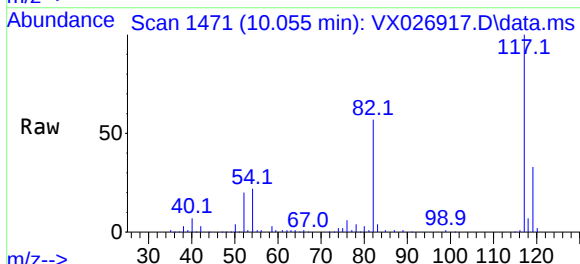
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(FEB)

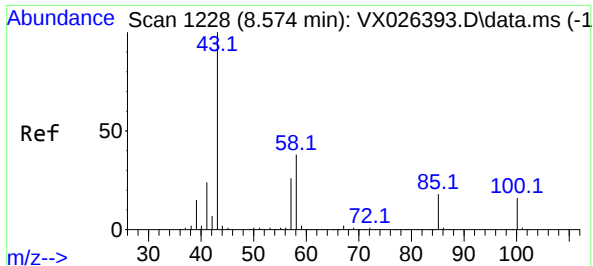
Tgt Ion:173 Resp: 245  
Ion Ratio Lower Upper  
173 100  
175 735.9 38.0 57.0#  
254 0.0 6.6 10.0#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

Tgt Ion:117 Resp: 69253  
Ion Ratio Lower Upper  
117 100  
82 55.9 46.2 69.4  
119 32.4 25.4 38.2





#58

4-Methyl-2-Pentanone

Concen: 2.443 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX026917.D

Acq: 10 Feb 2022 13:56

Instrument :

MSVOA\_X

ClientSampleId :

001-WILLETS-PT-BLVD(FEB)

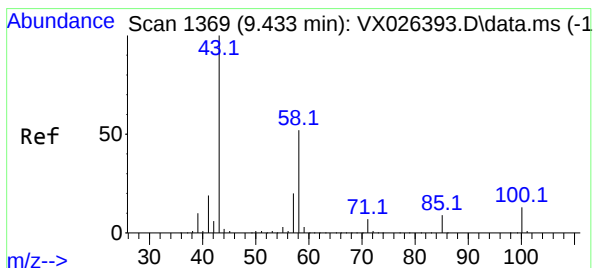
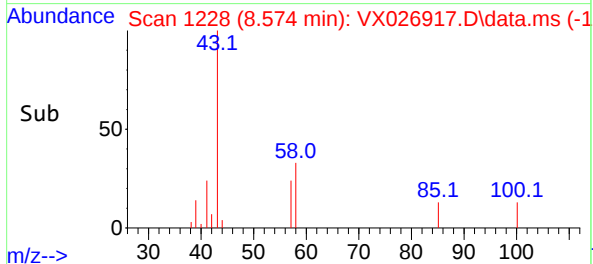
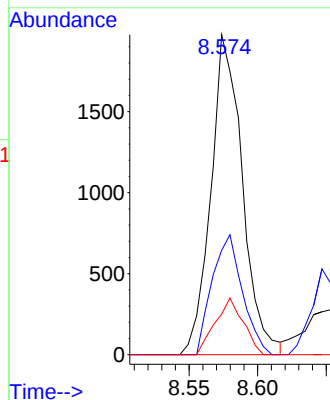
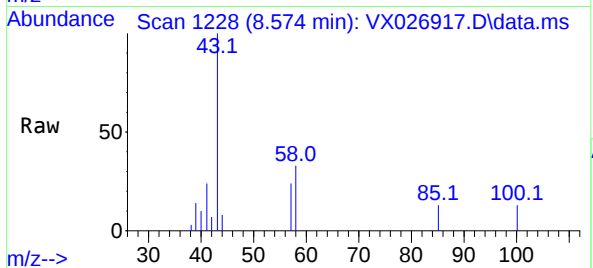
Tgt Ion: 43 Resp: 3156

Ion Ratio Lower Upper

43 100

58 36.1 30.2 45.4

85 15.7 14.1 21.1



#59

2-Hexanone

Concen: 0.243 ug/l

RT: 9.433 min Scan# 1369

Delta R.T. 0.000 min

Lab File: VX026917.D

Acq: 10 Feb 2022 13:56

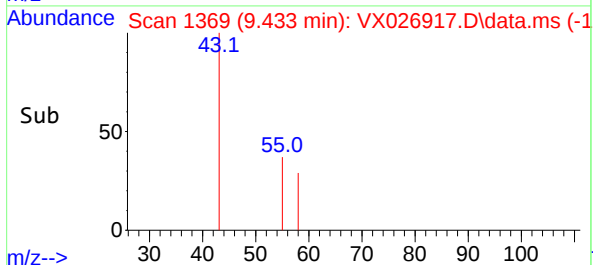
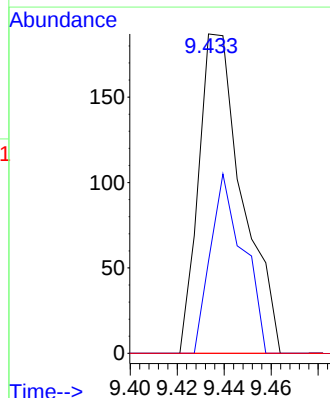
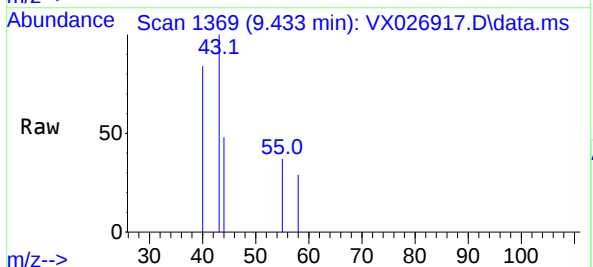
Tgt Ion: 43 Resp: 243

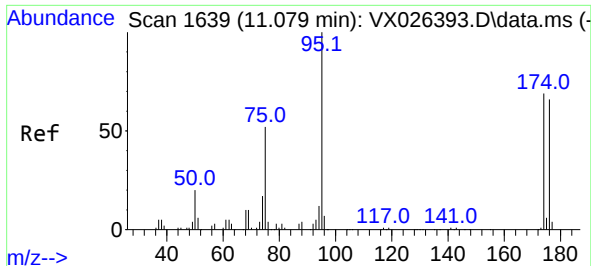
Ion Ratio Lower Upper

43 100

58 42.0 42.0 63.0#

57 0.0 15.2 22.8#

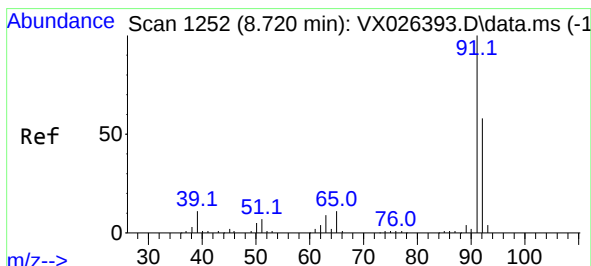
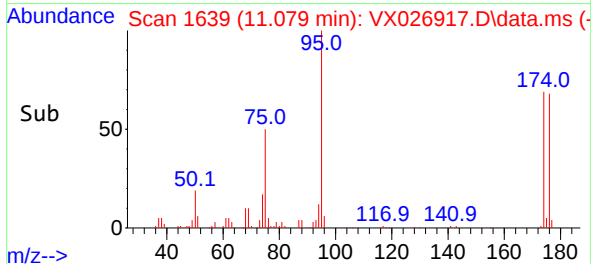
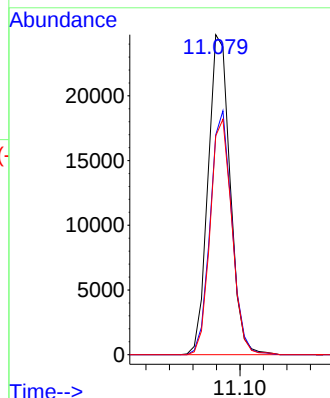
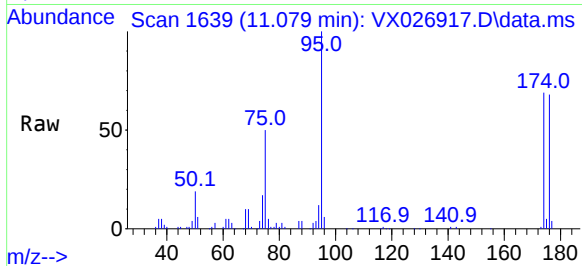




#60  
4-Bromofluorobenzene  
Concen: 27.897 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

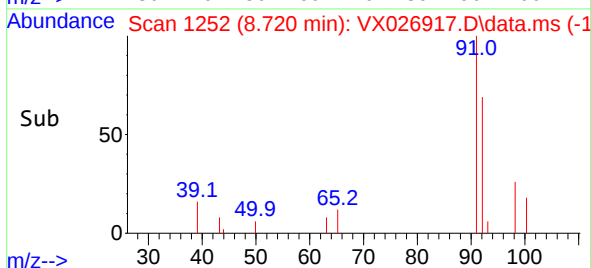
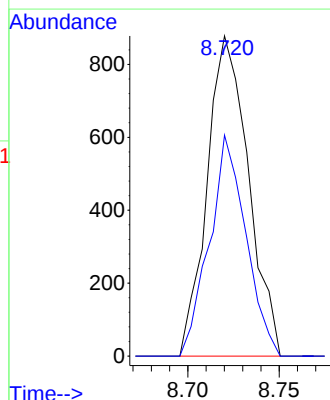
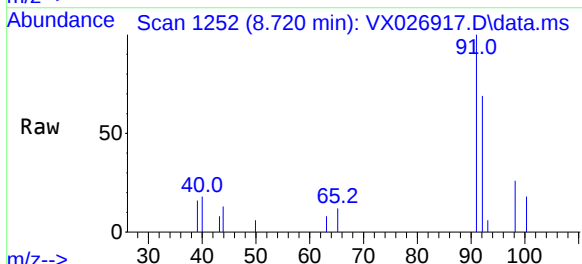
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(FEB)

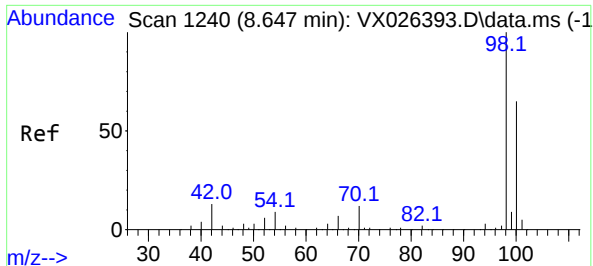
Tgt Ion: 95 Resp: 32243  
Ion Ratio Lower Upper  
95 100  
174 74.7 58.0 87.0  
176 72.3 56.5 84.7



#62  
Toluene  
Concen: 0.373 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. 0.000 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

Tgt Ion: 91 Resp: 1380  
Ion Ratio Lower Upper  
91 100  
92 60.9 47.2 70.8

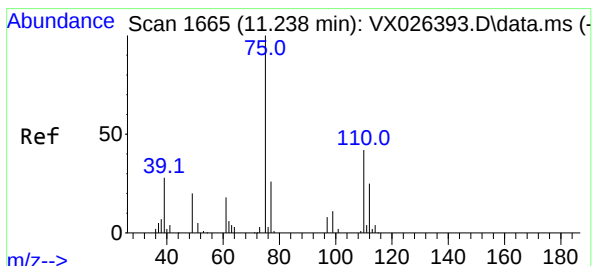
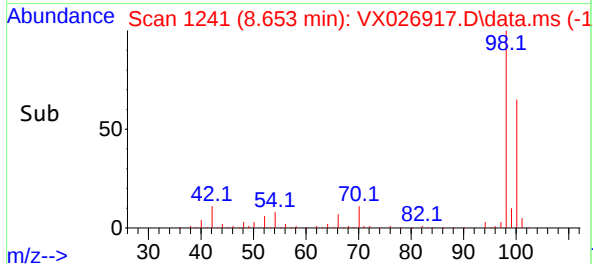
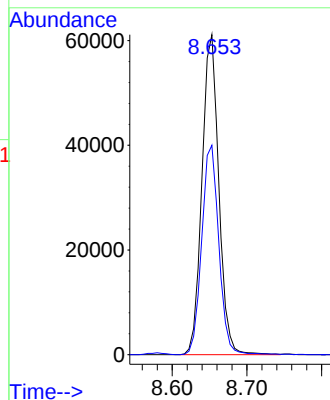
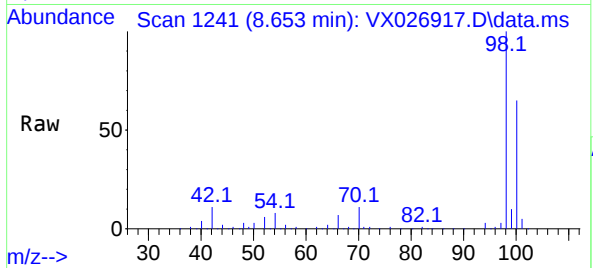




#63  
Toluene-d8  
Concen: 30.050 ug/l  
RT: 8.653 min Scan# 11  
Delta R.T. 0.006 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

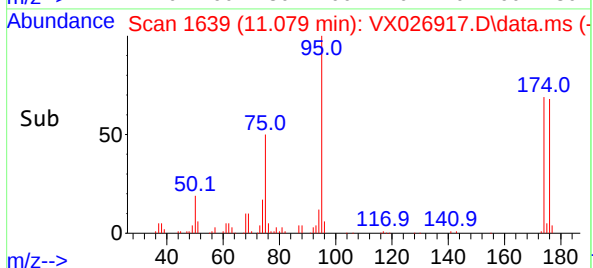
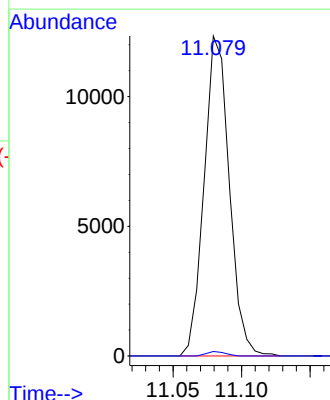
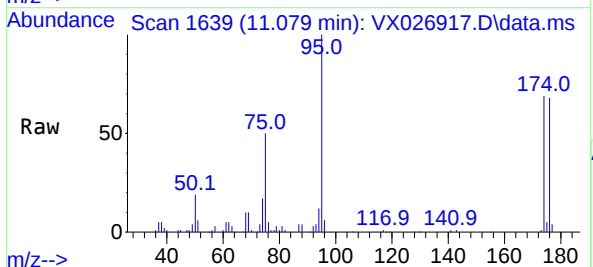
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(FEB)

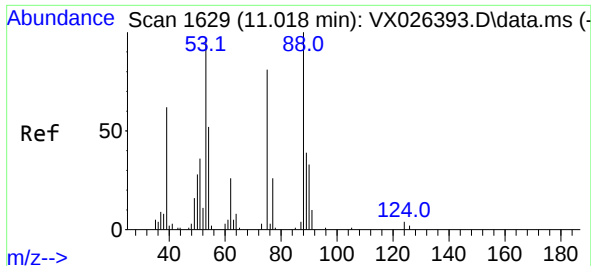
Tgt Ion: 98 Resp: 95602  
Ion Ratio Lower Upper  
98 100  
100 66.2 52.5 78.7



#72  
1,2,3-Trichloropropane  
Concen: 14.294 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. -0.158 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

Tgt Ion: 75 Resp: 15799  
Ion Ratio Lower Upper  
75 100  
77 1.0 0.0 76.2

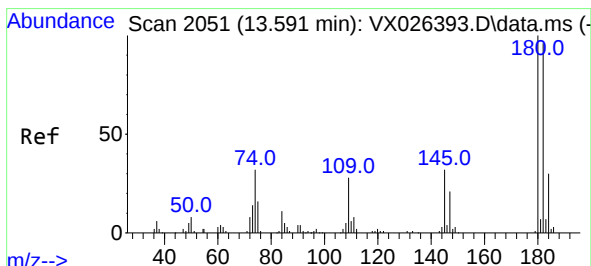
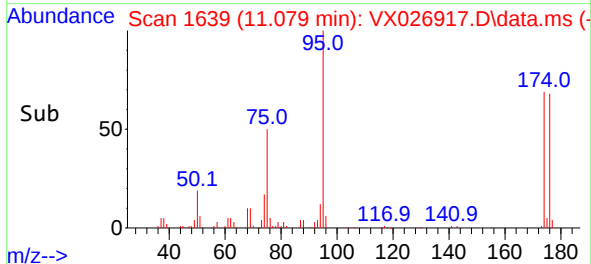
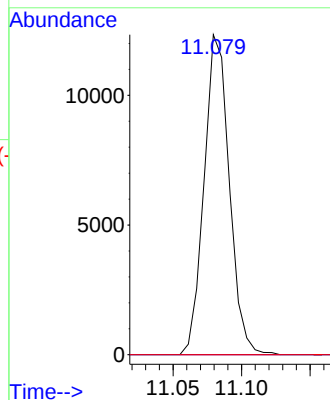
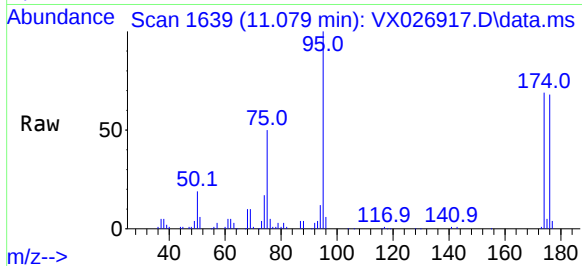




#77  
t-1,4-Dichloro-2-butene  
Concen: 47.526 ug/l  
RT: 11.079 min Scan# 11  
Delta R.T. 0.061 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

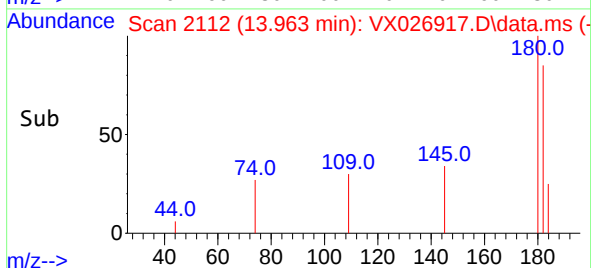
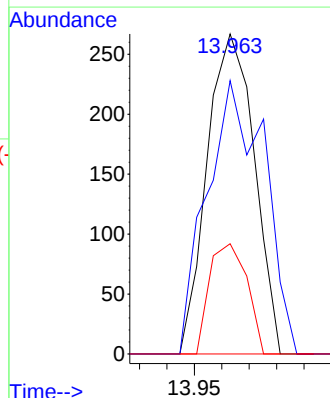
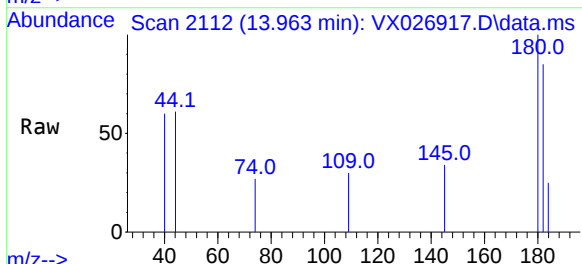
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(FEB)

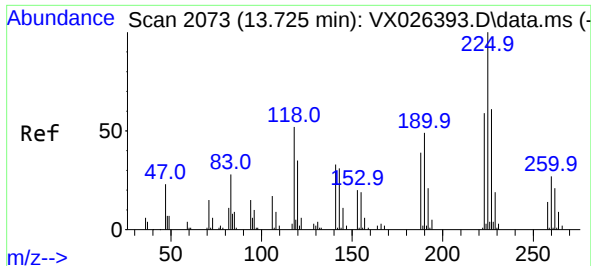
Tgt Ion: 75 Resp: 15799  
Ion Ratio Lower Upper  
75 100  
53 0.0 59.0 176.8#  
89 0.0 24.0 72.0#



#89  
1,2,4-Trichlorobenzene  
Concen: 0.299 ug/l  
RT: 13.963 min Scan# 2112  
Delta R.T. 0.372 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

Tgt Ion:180 Resp: 320  
Ion Ratio Lower Upper  
180 100  
182 103.8 75.8 113.8  
145 27.2 26.6 39.8

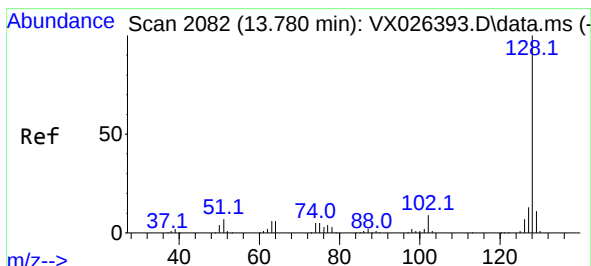
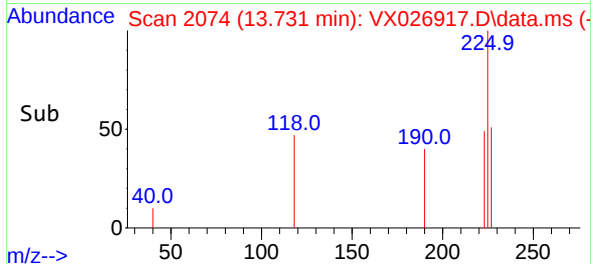
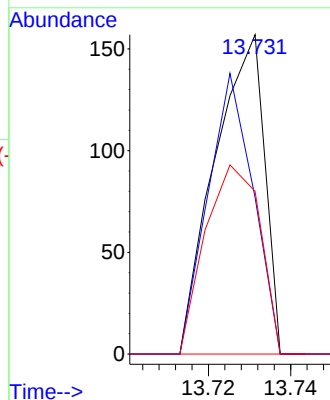
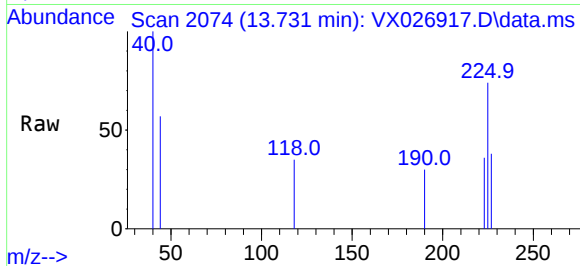




#90  
Hexachlorobutadiene  
Concen: 0.282 ug/l  
RT: 13.731 min Scan# 2073  
Delta R.T. 0.006 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

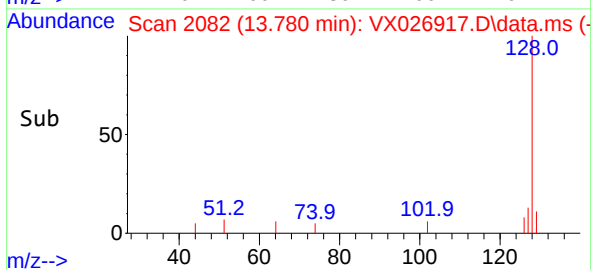
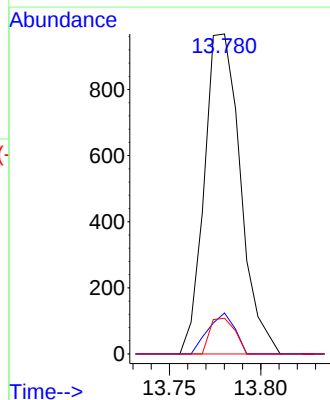
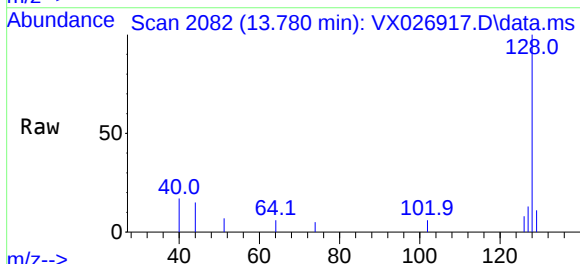
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(FEB)

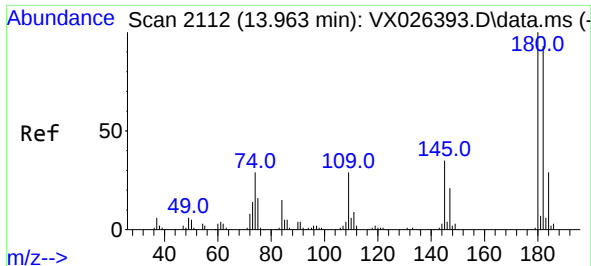
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 132   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 79.5  | 0.0   | 121.6 |
| 227      | 65.2  | 0.0   | 122.8 |



#91  
Naphthalene  
Concen: 0.360 ug/l  
RT: 13.780 min Scan# 2082  
Delta R.T. 0.000 min  
Lab File: VX026917.D  
Acq: 10 Feb 2022 13:56

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 1334  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 127      | 9.4   | 10.6  | 15.8# |
| 129      | 7.7   | 8.8   | 13.2# |





#92

1,2,3-Trichlorobenzene

Concen: 0.300 ug/l

RT: 13.963 min Scan# 21

Delta R.T. 0.000 min

Lab File: VX026917.D

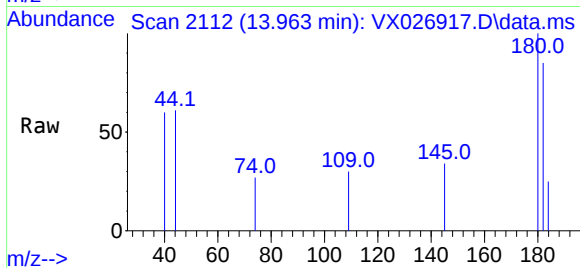
Acq: 10 Feb 2022 13:56

Instrument :

MSVOA\_X

ClientSampleId :

001-WILLETS-PT-BLVD(FEB)



Tgt Ion:180 Resp: 320

Ion Ratio Lower Upper

180 100

182 103.8 0.0 187.4

145 27.2 0.0 70.2

