

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX071423\  
 Data File : VX036542.D  
 Acq On : 13 Jul 2023 21:50  
 Operator : JC/MD  
 Sample : 03596-01  
 Misc : 5.0mL/MSVOA\_X/WATER  
 ALS Vial : 20 Sample Multiplier: 1

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

Quant Time: Jul 14 04:39:12 2023  
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X071423W.M  
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
 QLast Update : Fri Jul 14 04:32:22 2023  
 Response via : Initial Calibration

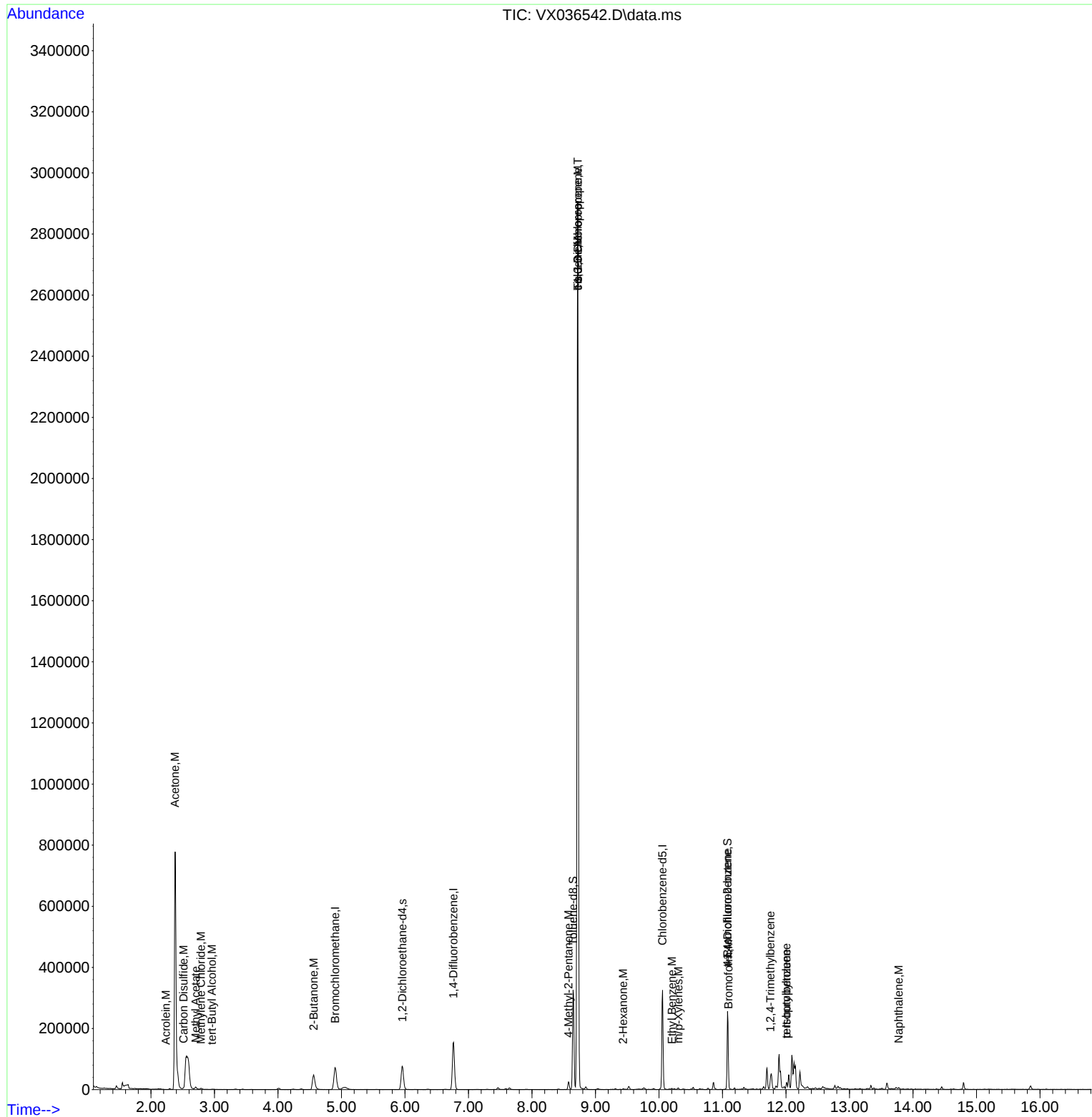
| Compound                    | R.T.           | QIon | Response   | Conc    | Units  | Dev(Min) |
|-----------------------------|----------------|------|------------|---------|--------|----------|
| -----                       |                |      |            |         |        |          |
| Internal Standards          |                |      |            |         |        |          |
| 1) Bromochloromethane       | 4.898          | 128  | 29706      | 30.000  | ug/l   | 0.00     |
| 28) 1,4-Difluorobenzene     | 6.763          | 114  | 155871     | 30.000  | ug/l   | 0.00     |
| 57) Chlorobenzene-d5        | 10.055         | 117  | 142515     | 30.000  | ug/l   | 0.00     |
|                             |                |      |            |         |        |          |
| System Monitoring Compounds |                |      |            |         |        |          |
| 27) 1,2-Dichloroethane-d4   | 5.958          | 65   | 72717      | 29.494  | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 110 |      | Recovery = | 98.300% |        |          |
| 60) 4-Bromofluorobenzene    | 11.079         | 95   | 67379      | 29.146  | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 63 - 112 |      | Recovery = | 97.167% |        |          |
| 63) Toluene-d8              | 8.647          | 98   | 196456     | 29.957  | ug/l   | 0.00     |
| Spiked Amount 30.000        | Range 91 - 112 |      | Recovery = | 99.867% |        |          |
|                             |                |      |            |         |        |          |
| Target Compounds            |                |      |            |         |        | Qvalue   |
| 12) Methyl Acetate          | 2.703          | 43   | 9176       | 2.246   | ug/l # | 84       |
| 13) Acrolein                | 2.233          | 56   | 139        | 0.415   | ug/l # | 67       |
| 15) Acetone                 | 2.380          | 58   | 258633     | 797.590 | ug/l   | 97       |
| 16) Carbon Disulfide        | 2.514          | 76   | 3541       | 0.840   | ug/l   | 98       |
| 18) Methylene Chloride      | 2.788          | 84   | 1433       | 0.685   | ug/l # | 94       |
| 23) tert-Butyl Alcohol      | 2.959          | 59   | 380        | 0.714   | ug/l # | 1        |
| 30) 2-Butanone              | 4.562          | 43   | 82065      | 55.450  | ug/l   | 98       |
| 48) t-1,3-Dichloropropene   | 8.720          | 75   | 12931      | 4.567   | ug/l # | 1        |
| 49) cis-1,3-Dichloropropene | 8.720          | 75   | 12931      | 4.227   | ug/l # | 1        |
| 56) Bromoform               | 11.092         | 173  | 777        | 0.573   | ug/l # | 1        |
| 58) 4-Methyl-2-Pentanone    | 8.574          | 43   | 15270      | 5.182   | ug/l   | 97       |
| 59) 2-Hexanone              | 9.433          | 43   | 1582       | 0.706   | ug/l # | 84       |
| 62) Toluene                 | 8.720          | 91   | 1833863    | 229.341 | ug/l   | 98       |
| 66) Ethyl Benzene           | 10.201         | 91   | 1836       | 0.211   | ug/l   | 91       |
| 67) m/p-Xylenes             | 10.305         | 106  | 1372       | 0.405   | ug/l   | 99       |
| 77) t-1,4-Dichloro-2-butene | 11.079         | 75   | 34925      | 37.550  | ug/l # | 7        |
| 79) tert-butylbenzene       | 12.006         | 119  | 7862       | 1.151   | ug/l   | 65       |
| 80) 1,2,4-Trimethylbenzene  | 11.756         | 105  | 7196       | 1.009   | ug/l   | 48       |
| 82) p-Isopropyltoluene      | 12.006         | 119  | 7862       | 1.099   | ug/l   | 97       |
| 91) Naphthalene             | 13.774         | 128  | 2834       | 0.332   | ug/l # | 90       |
| -----                       |                |      |            |         |        |          |

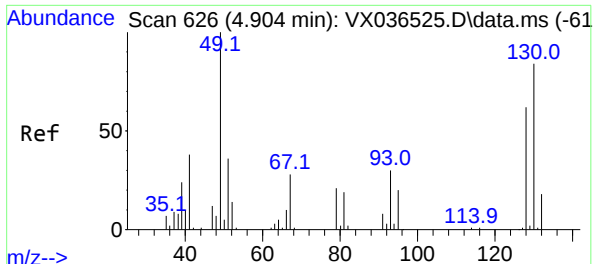
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA\_X\Data\VX071423\  
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001-WILLETS-PT-BLVD(JULY)

Quant Time: Jul 14 04:39:12 2023  
Quant Method : Z:\voasrv\HPCHEM1\MSVOA\_X\Method\624X071423W.M  
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS  
QLast Update : Fri Jul 14 04:32:22 2023  
Response via : Initial Calibration

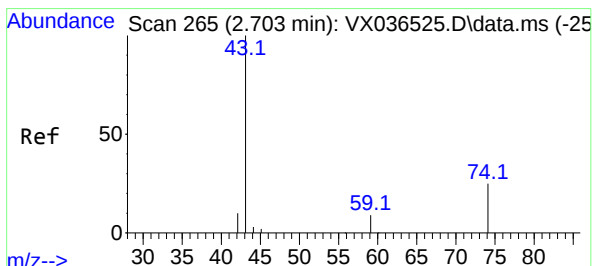
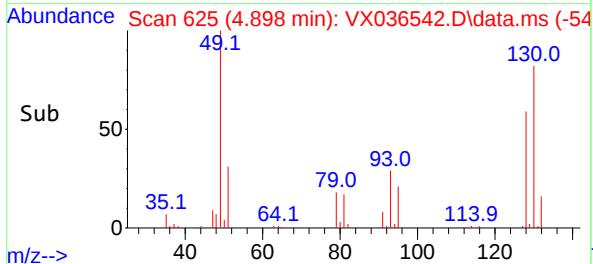
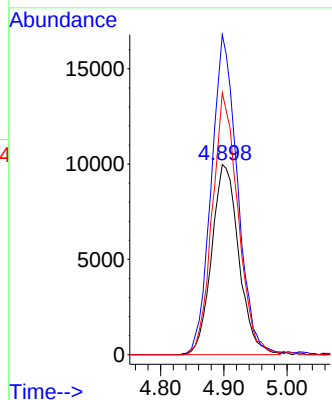
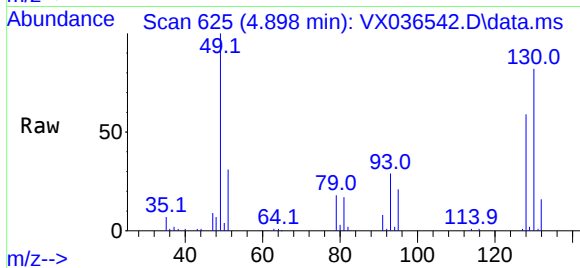




#1  
 Bromochloromethane  
 Concen: 30.000 ug/l  
 RT: 4.898 min Scan# 61  
 Delta R.T. -0.006 min  
 Lab File: VX036542.D  
 Acq: 13 Jul 2023 21:50

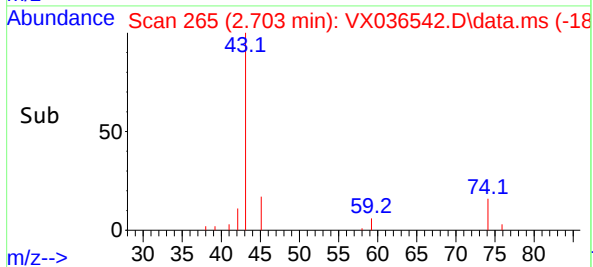
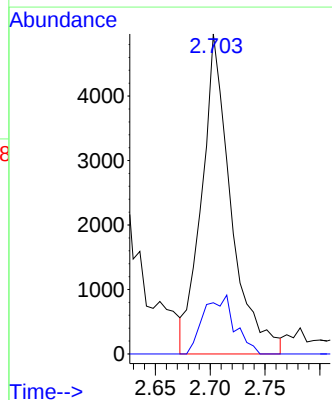
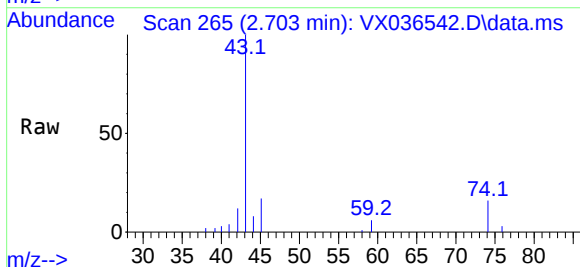
Instrument : MSVOA\_X  
 ClientSampleId : 001-WILLETS-PT-BLVD(JULY)

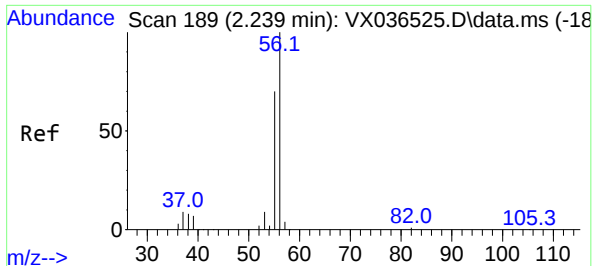
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 29706 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 49       | 162.0 | 0.0   | 406.3 |
| 130      | 130.7 | 0.0   | 328.0 |



#12  
 Methyl Acetate  
 Concen: 2.246 ug/l  
 RT: 2.703 min Scan# 265  
 Delta R.T. 0.000 min  
 Lab File: VX036542.D  
 Acq: 13 Jul 2023 21:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 9176  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 74       | 17.4  | 20.3  | 30.5# |

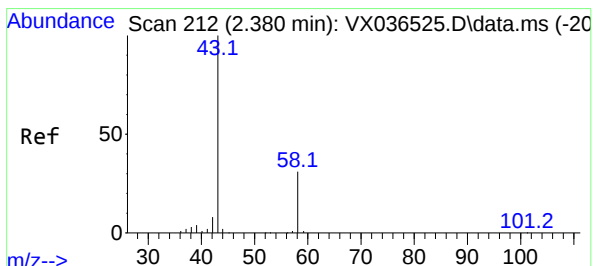
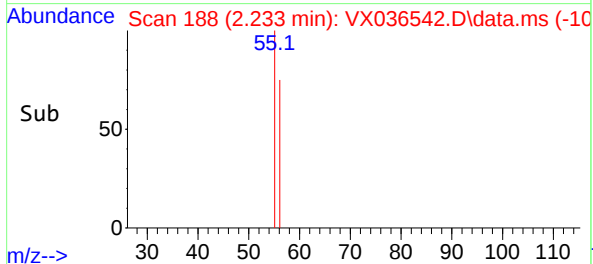
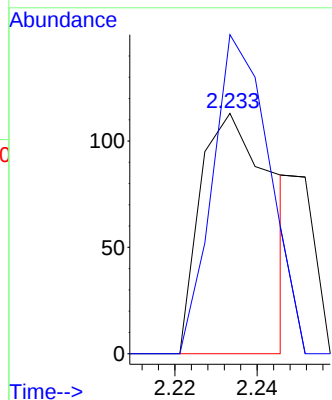
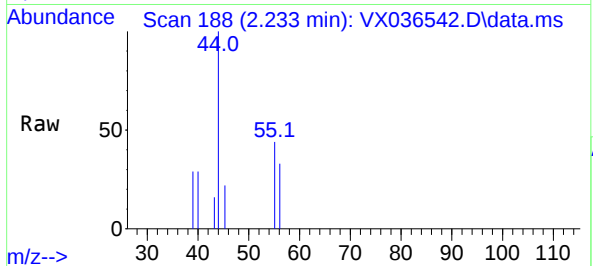




#13  
Acrolein  
Concen: 0.415 ug/l  
RT: 2.233 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

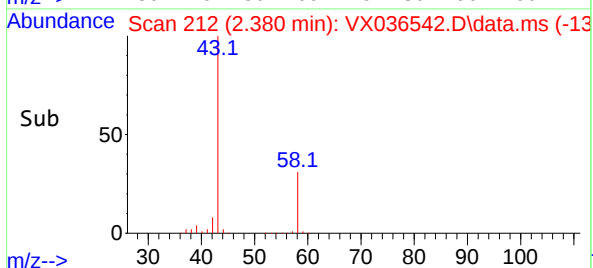
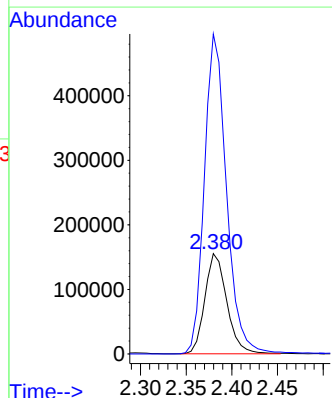
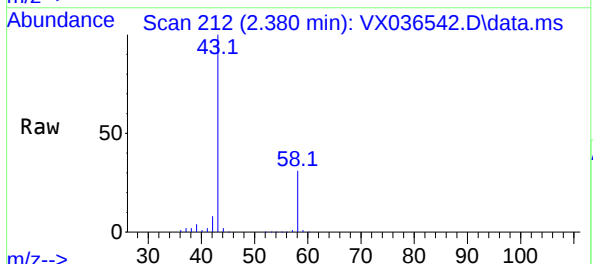
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(JULY)

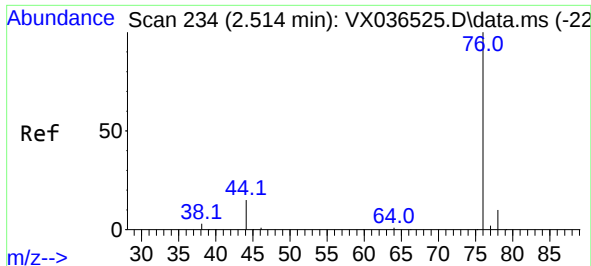
Tgt Ion: 56 Resp: 139  
Ion Ratio Lower Upper  
56 100  
55 102.9 59.7 89.5#



#15  
Acetone  
Concen: 797.590 ug/l  
RT: 2.380 min Scan# 212  
Delta R.T. 0.000 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

Tgt Ion: 58 Resp: 258633  
Ion Ratio Lower Upper  
58 100  
43 319.4 261.0 391.4

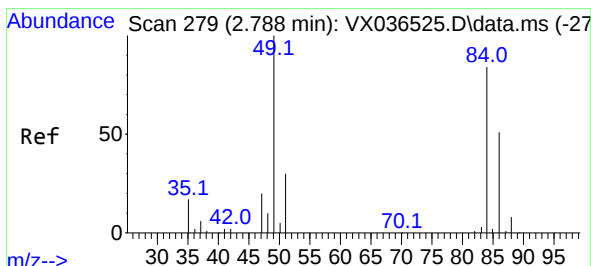
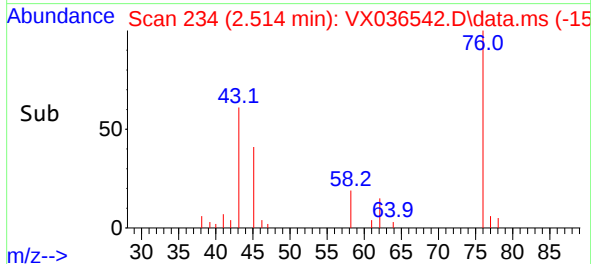
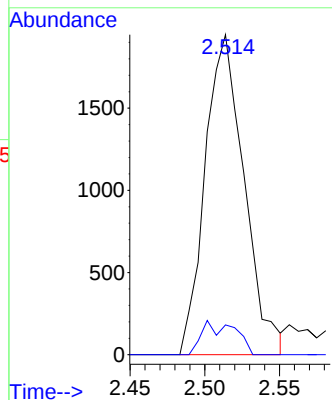
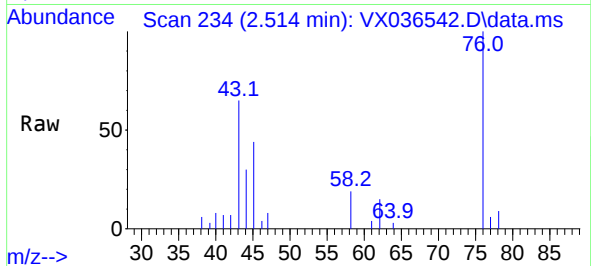




#16  
Carbon Disulfide  
Concen: 0.840 ug/l  
RT: 2.514 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

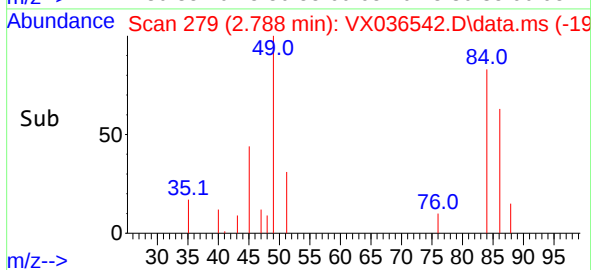
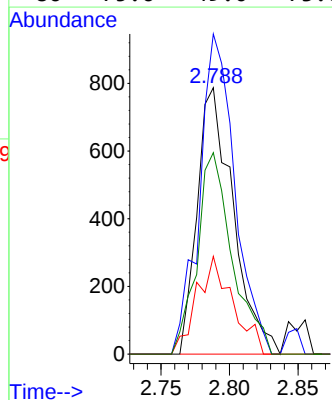
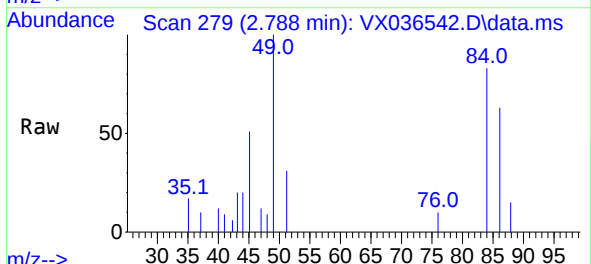
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(JULY)

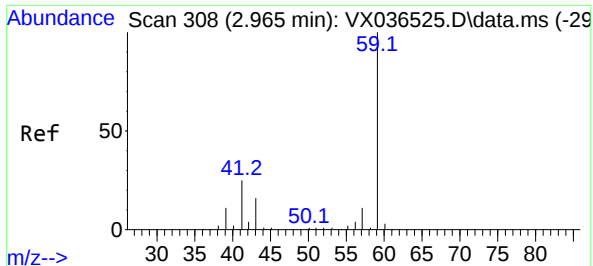
Tgt Ion: 76 Resp: 3541  
Ion Ratio Lower Upper  
76 100  
78 9.3 8.0 12.0



#18  
Methylene Chloride  
Concen: 0.685 ug/l  
RT: 2.788 min Scan# 279  
Delta R.T. 0.000 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

Tgt Ion: 84 Resp: 1433  
Ion Ratio Lower Upper  
84 100  
49 120.2 95.4 143.0  
51 36.7 28.3 42.5  
86 75.6 49.0 73.6#

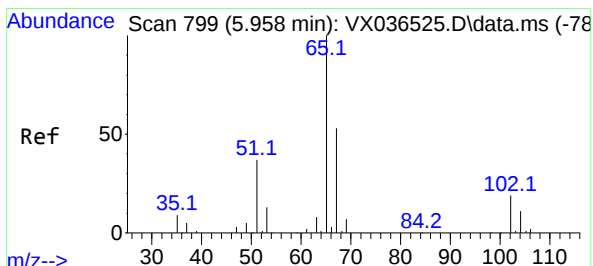
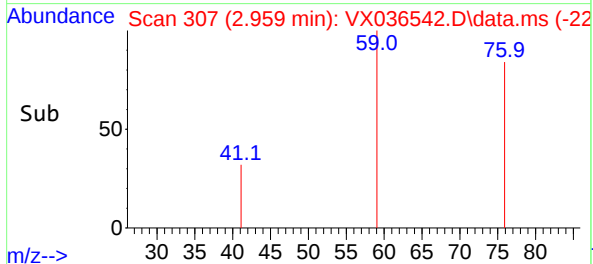
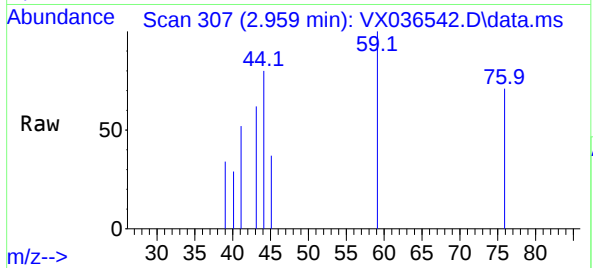




#23  
tert-Butyl Alcohol  
Concen: 0.714 ug/l  
RT: 2.959 min Scan# 307  
Delta R.T. -0.006 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

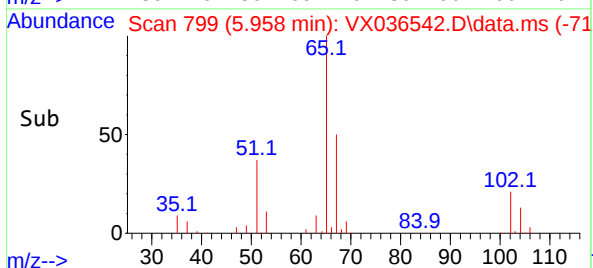
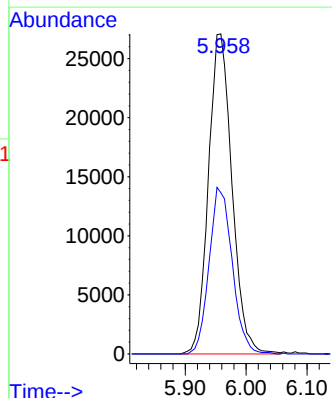
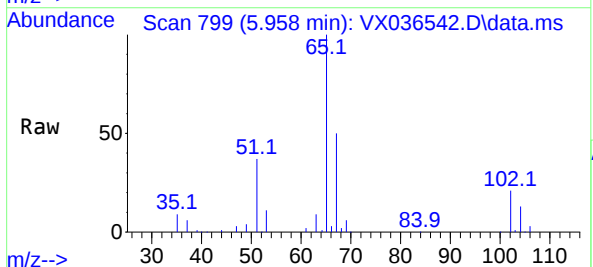
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(JULY)

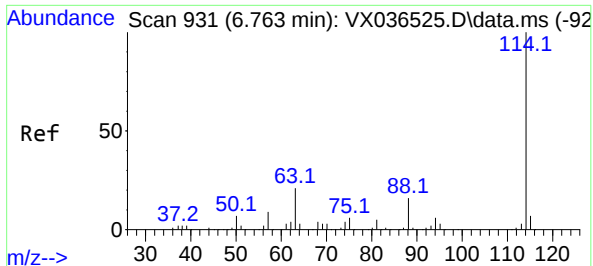
Tgt Ion: 59 Resp: 380  
Ion Ratio Lower Upper  
59 100  
52 0.0 142.6 213.8#



#27  
1,2-Dichloroethane-d4  
Concen: 29.494 ug/l  
RT: 5.958 min Scan# 799  
Delta R.T. 0.000 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

Tgt Ion: 65 Resp: 72717  
Ion Ratio Lower Upper  
65 100  
67 51.0 42.1 63.1

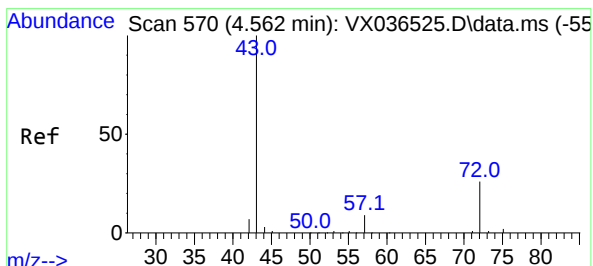
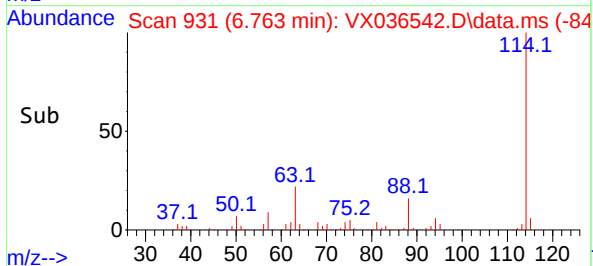
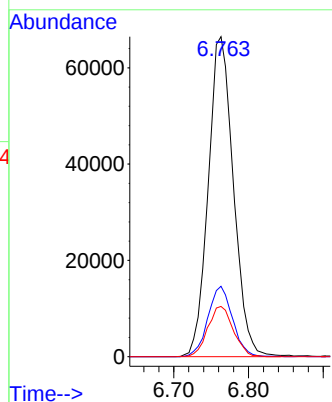
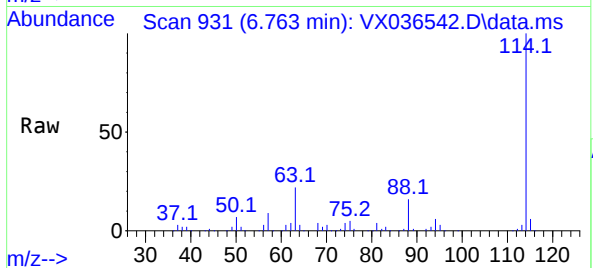




#28  
1,4-Difluorobenzene  
Concen: 30.000 ug/l  
RT: 6.763 min Scan# 911  
Delta R.T. 0.000 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

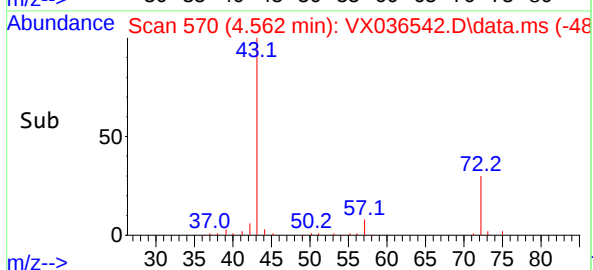
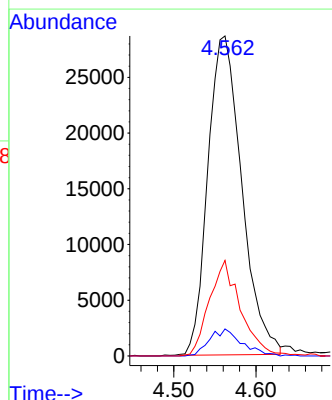
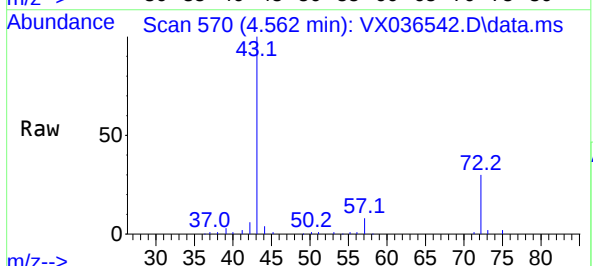
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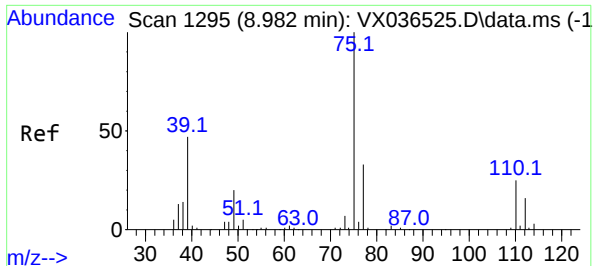
Tgt Ion:114 Resp: 155871  
Ion Ratio Lower Upper  
114 100  
63 21.5 16.6 24.8  
88 15.9 12.9 19.3



#30  
2-Butanone  
Concen: 55.450 ug/l  
RT: 4.562 min Scan# 570  
Delta R.T. 0.000 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

Tgt Ion: 43 Resp: 82065  
Ion Ratio Lower Upper  
43 100  
57 7.3 6.4 9.6  
72 27.8 21.6 32.4





#48

t-1,3-Dichloropropene

Concen: 4.567 ug/l

RT: 8.720 min Scan# 11

Delta R.T. -0.262 min

Lab File: VX036542.D

Acq: 13 Jul 2023 21:50

Instrument :

MSVOA\_X

ClientSampleId :

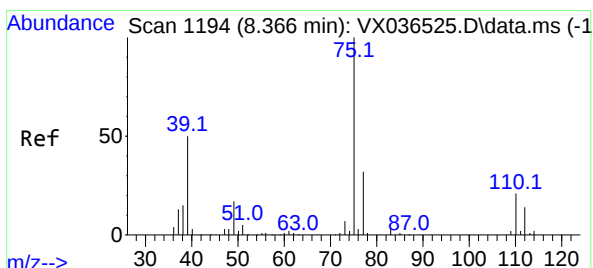
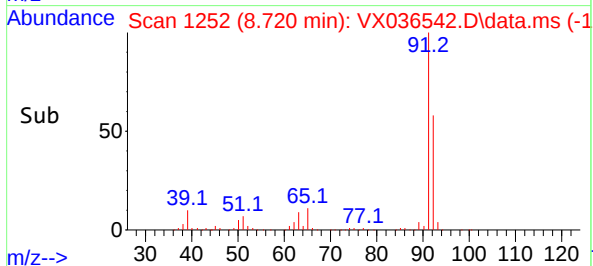
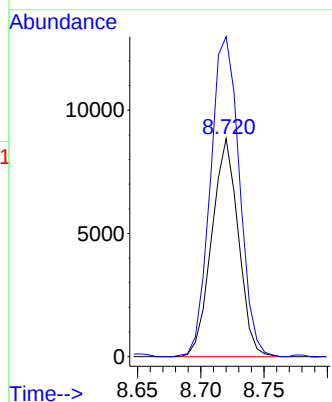
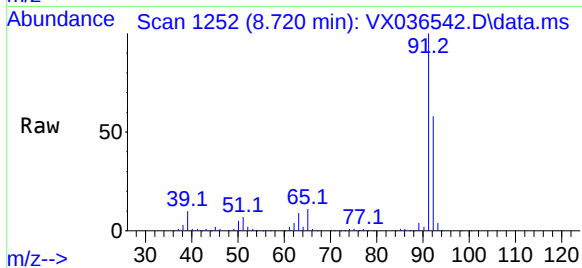
001-WILLETS-PT-BLVD(JULY)

Tgt Ion: 75 Resp: 12931

Ion Ratio Lower Upper

75 100

77 146.8 26.8 40.2#



#49

cis-1,3-Dichloropropene

Concen: 4.227 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. 0.354 min

Lab File: VX036542.D

Acq: 13 Jul 2023 21:50

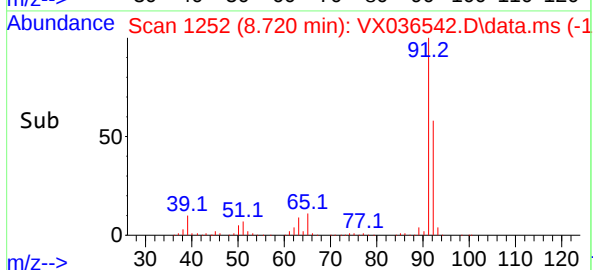
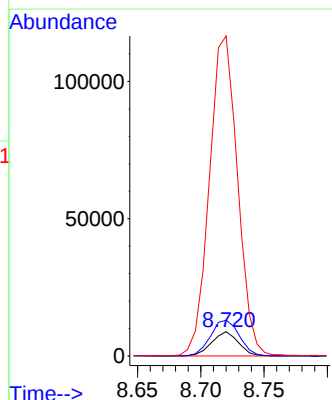
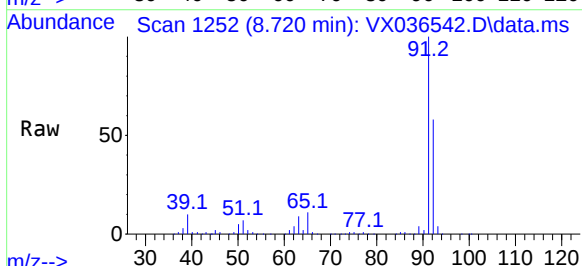
Tgt Ion: 75 Resp: 12931

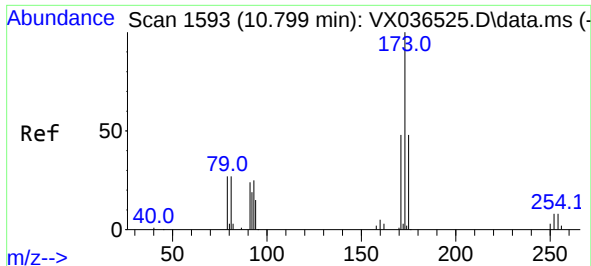
Ion Ratio Lower Upper

75 100

77 146.8 25.4 38.2#

39 1313.9 40.2 60.4#

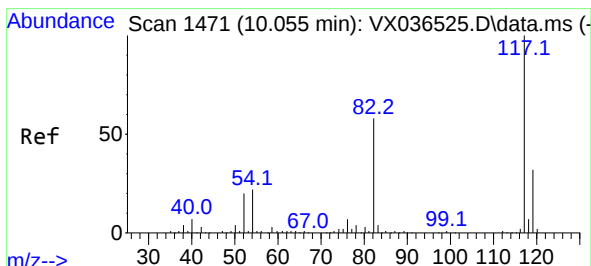
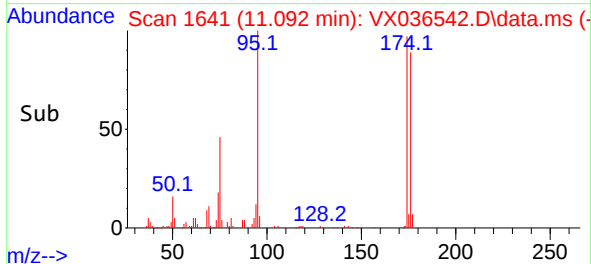
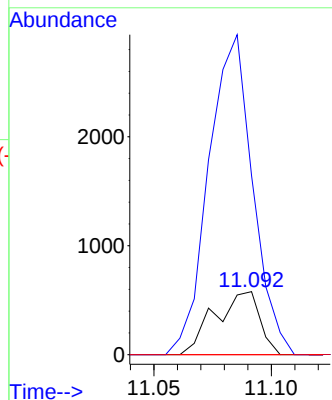
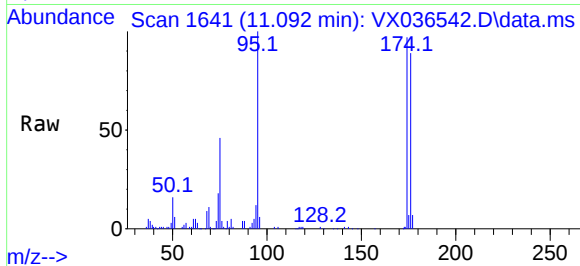




#56  
Bromoform  
Concen: 0.573 ug/l  
RT: 11.092 min Scan# 1641  
Delta R.T. 0.293 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

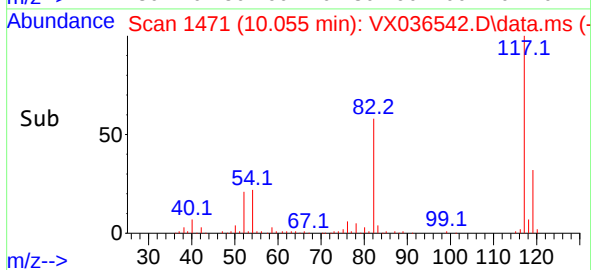
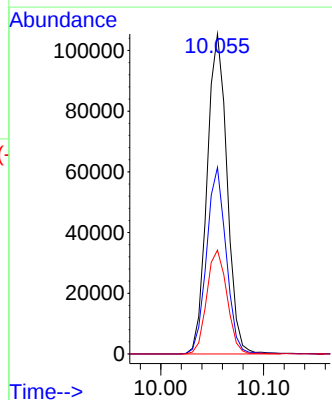
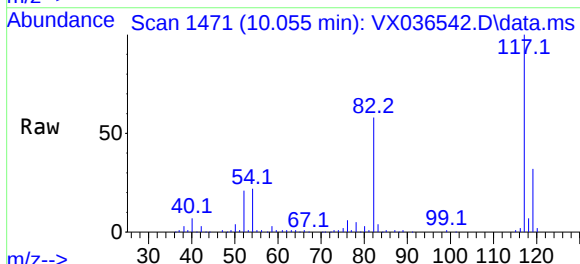
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(JULY)

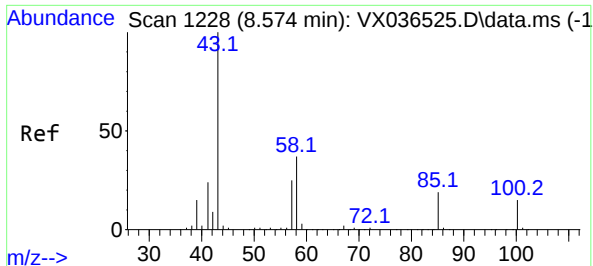
Tgt Ion:173 Resp: 777  
Ion Ratio Lower Upper  
173 100  
175 493.2 38.1 57.1#  
254 0.0 6.7 10.1#



#57  
Chlorobenzene-d5  
Concen: 30.000 ug/l  
RT: 10.055 min Scan# 1471  
Delta R.T. 0.000 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

Tgt Ion:117 Resp: 142515  
Ion Ratio Lower Upper  
117 100  
82 57.1 44.7 67.1  
119 32.8 25.6 38.4

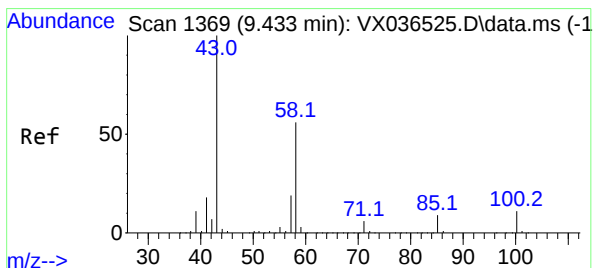
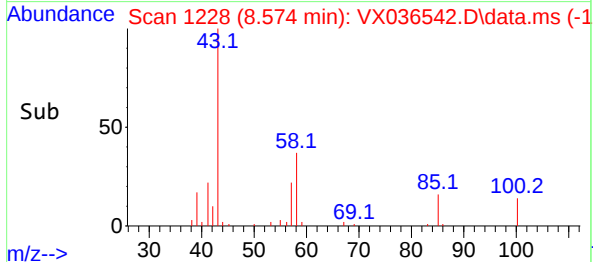
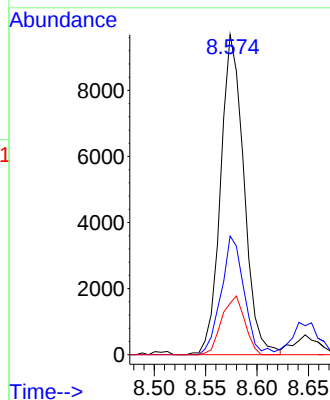
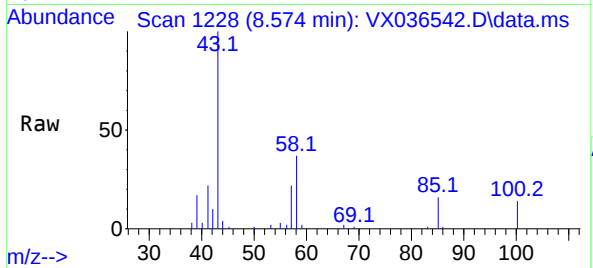




#58  
4-Methyl-2-Pentanone  
Concen: 5.182 ug/l  
RT: 8.574 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

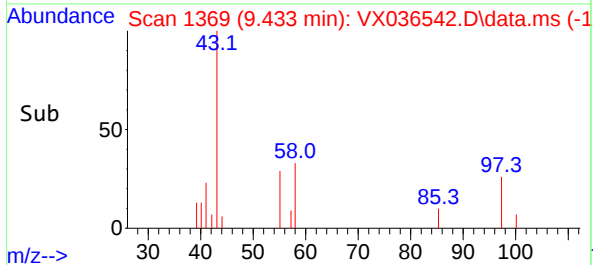
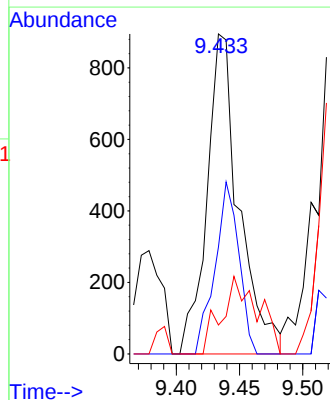
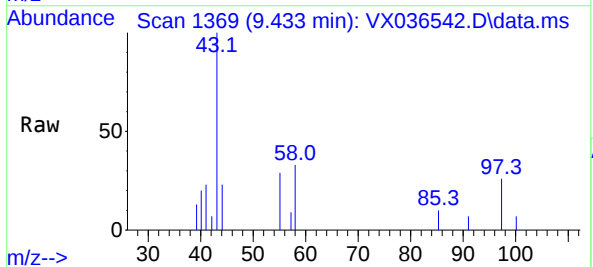
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(JULY)

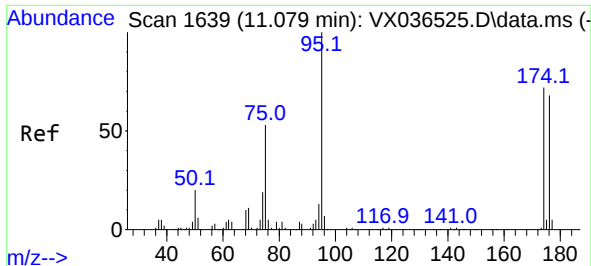
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 15270 |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 35.8  | 30.9  | 46.3  |
| 85       | 18.0  | 14.4  | 21.6  |



#59  
2-Hexanone  
Concen: 0.706 ug/l  
RT: 9.433 min Scan# 1369  
Delta R.T. 0.000 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 43    | Resp: | 1582  |
| Ion      | Ratio | Lower | Upper |
| 43       | 100   |       |       |
| 58       | 39.8  | 43.4  | 65.2# |
| 57       | 17.1  | 15.1  | 22.7  |

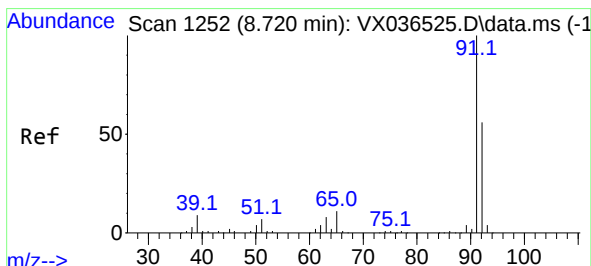
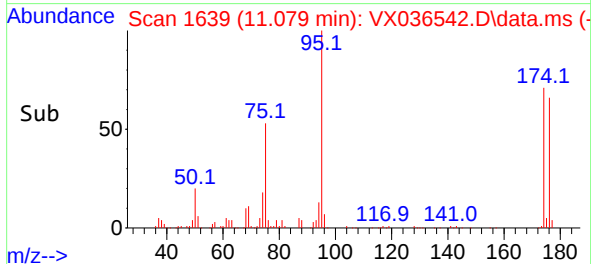
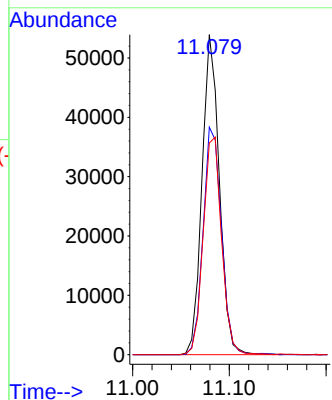
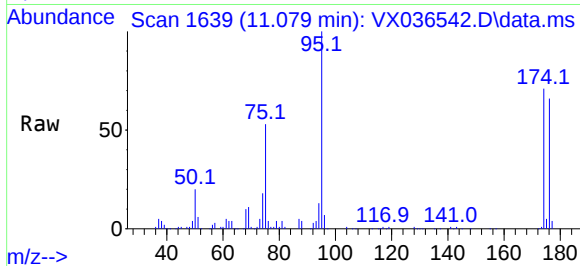




#60  
4-Bromofluorobenzene  
Concen: 29.146 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.000 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

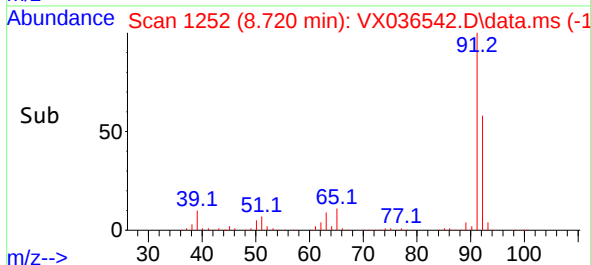
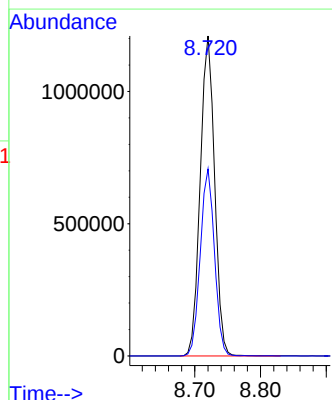
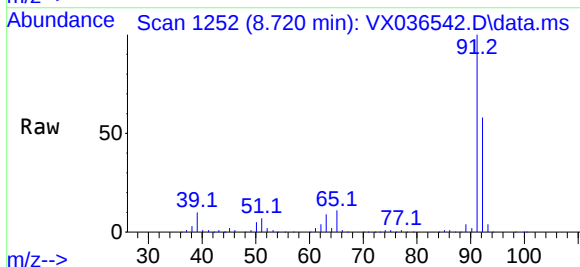
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(JULY)

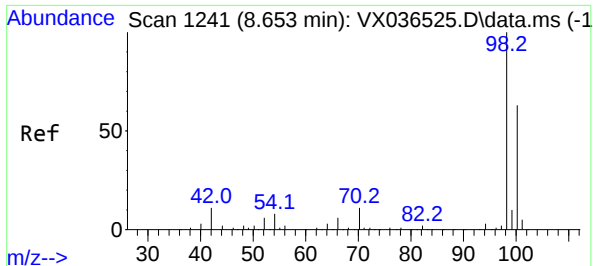
Tgt Ion: 95 Resp: 67379  
Ion Ratio Lower Upper  
95 100  
174 74.8 60.5 90.7  
176 72.0 58.2 87.4



#62  
Toluene  
Concen: 229.341 ug/l  
RT: 8.720 min Scan# 1252  
Delta R.T. 0.000 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

Tgt Ion: 91 Resp: 1833863  
Ion Ratio Lower Upper  
91 100  
92 57.7 44.9 67.3

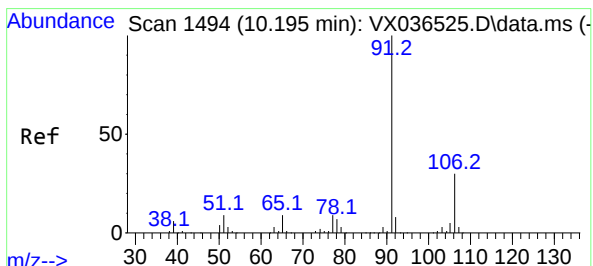
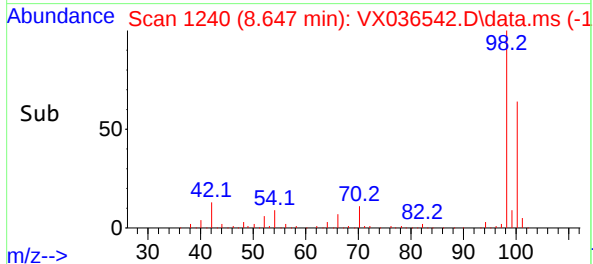
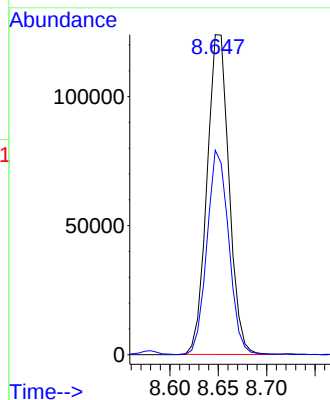
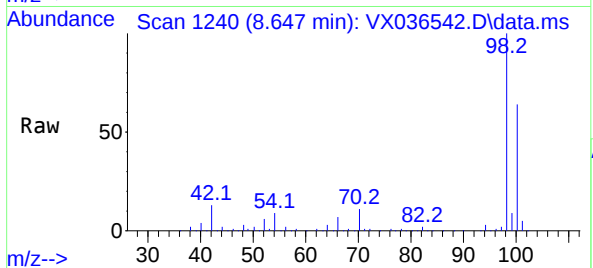




#63  
Toluene-d8  
Concen: 29.957 ug/l  
RT: 8.647 min Scan# 11  
Delta R.T. -0.006 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

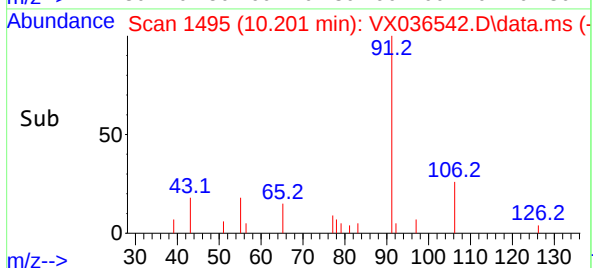
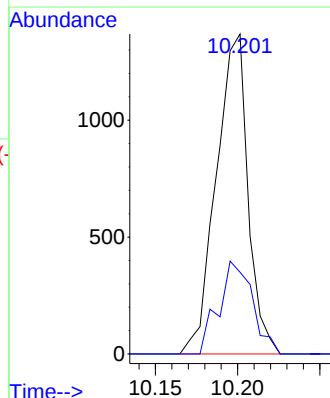
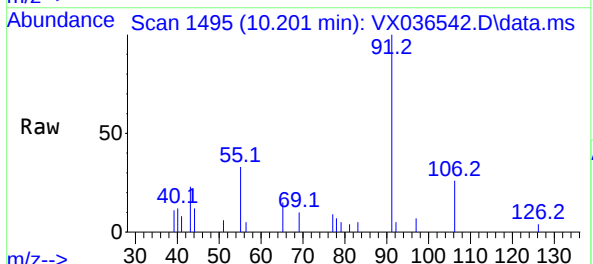
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(JULY)

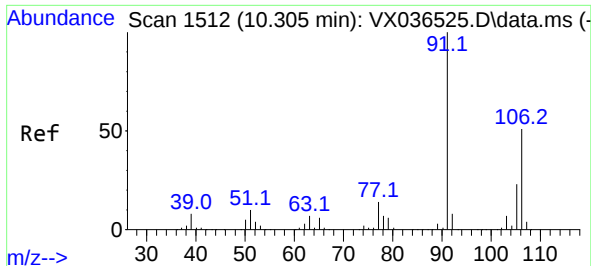
Tgt Ion: 98 Resp: 196456  
Ion Ratio Lower Upper  
98 100  
100 63.2 51.6 77.4



#66  
Ethyl Benzene  
Concen: 0.211 ug/l  
RT: 10.201 min Scan# 1495  
Delta R.T. 0.006 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

Tgt Ion: 91 Resp: 1836  
Ion Ratio Lower Upper  
91 100  
106 25.6 24.2 36.4

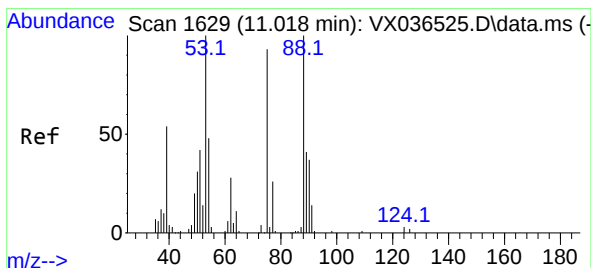
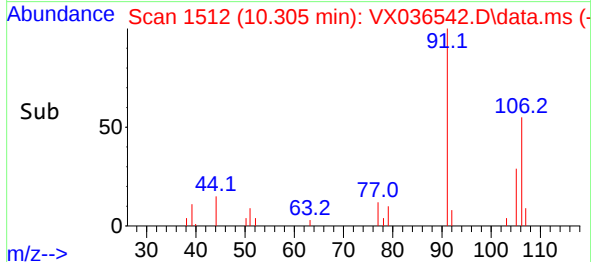
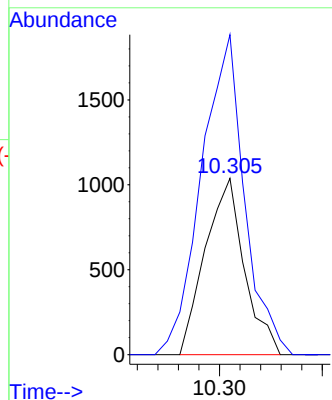
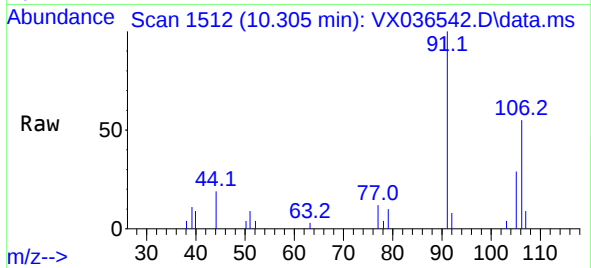




#67  
m/p-Xylenes  
Concen: 0.405 ug/l  
RT: 10.305 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

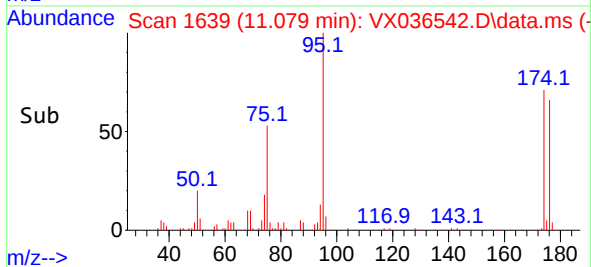
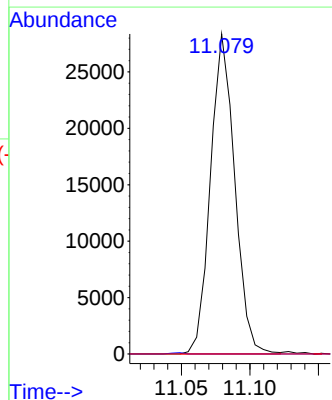
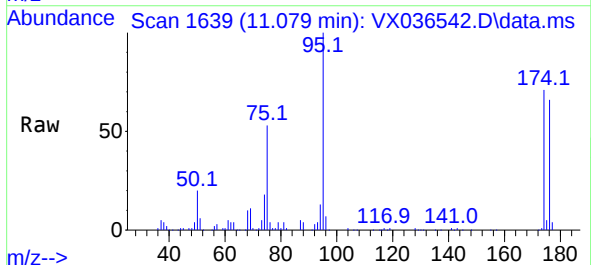
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(JULY)

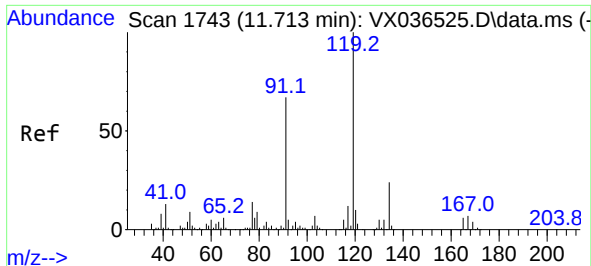
Tgt Ion:106 Resp: 1372  
Ion Ratio Lower Upper  
106 100  
91 199.6 160.5 240.7



#77  
t-1,4-Dichloro-2-butene  
Concen: 37.550 ug/l  
RT: 11.079 min Scan# 1639  
Delta R.T. 0.061 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

Tgt Ion: 75 Resp: 34925  
Ion Ratio Lower Upper  
75 100  
53 0.0 53.9 161.7#  
89 0.0 22.1 66.1#

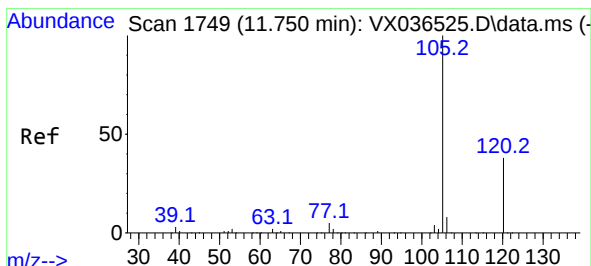
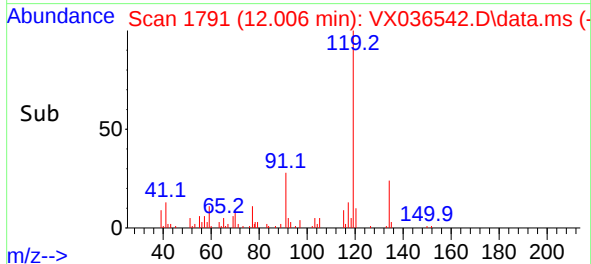
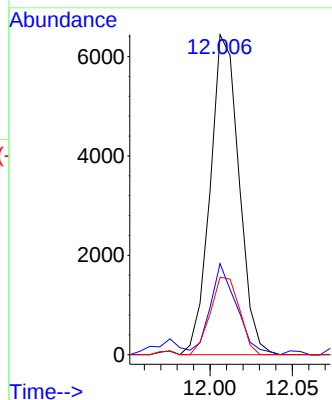
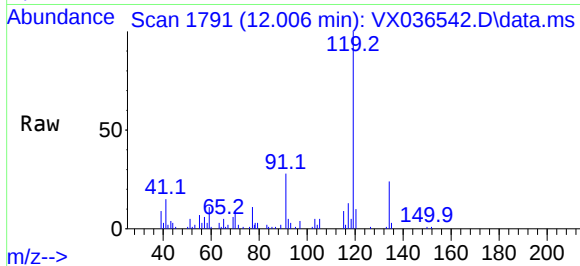




#79  
tert-butylbenzene  
Concen: 1.151 ug/l  
RT: 12.006 min Scan# 11  
Delta R.T. 0.293 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

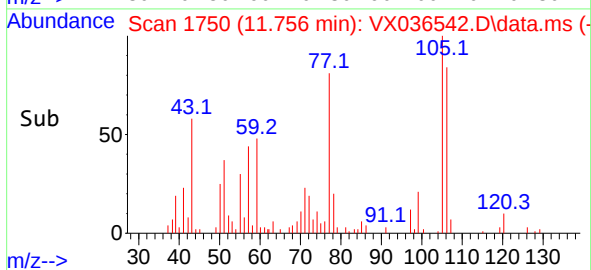
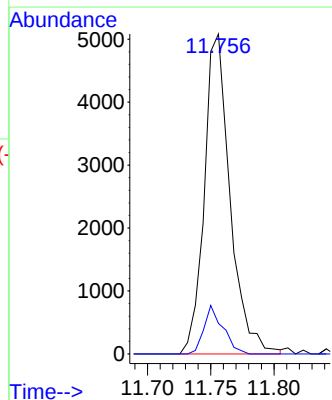
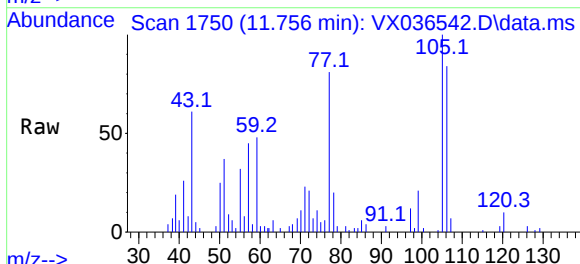
Instrument :  
MSVOA\_X  
ClientSampleId :  
001-WILLETS-PT-BLVD(JULY)

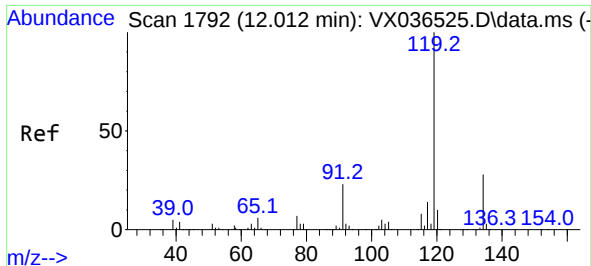
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 119   | Resp: | 7862  |
| Ion      | Ratio | Lower | Upper |
| 119      | 100   |       |       |
| 91       | 25.9  | 0.0   | 124.4 |
| 134      | 24.3  | 0.0   | 47.2  |



#80  
1,2,4-Trimethylbenzene  
Concen: 1.009 ug/l  
RT: 11.756 min Scan# 1750  
Delta R.T. 0.006 min  
Lab File: VX036542.D  
Acq: 13 Jul 2023 21:50

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 105   | Resp: | 7196  |
| Ion      | Ratio | Lower | Upper |
| 105      | 100   |       |       |
| 120      | 11.2  | 0.0   | 90.2  |





#82

p-Isopropyltoluene

Concen: 1.099 ug/l

RT: 12.006 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX036542.D

Acq: 13 Jul 2023 21:50

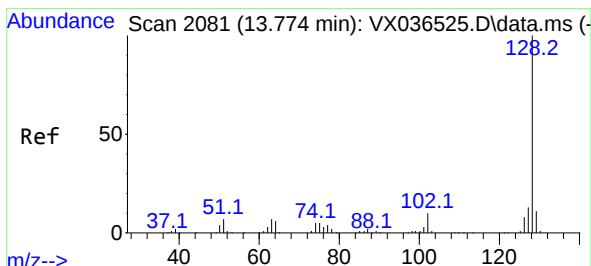
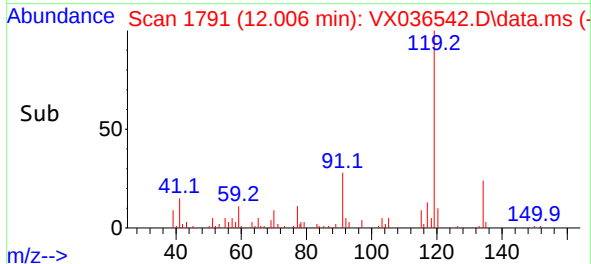
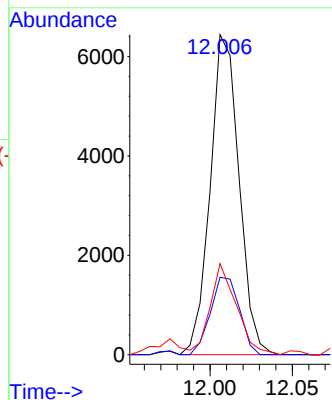
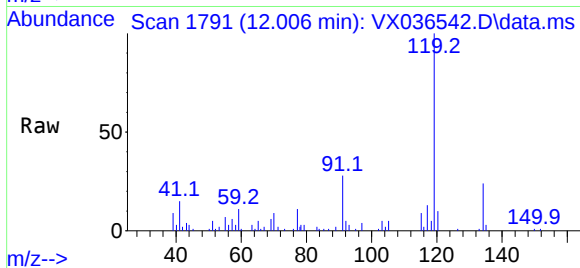
Instrument :

MSVOA\_X

ClientSampleId :

001-WILLETS-PT-BLVD(JULY)

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:119 | Resp: | 7862        |
| Ion         | Ratio | Lower Upper |
| 119         | 100   |             |
| 134         | 24.3  | 0.0 53.2    |
| 91          | 25.9  | 0.0 49.4    |



#91

Naphthalene

Concen: 0.332 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX036542.D

Acq: 13 Jul 2023 21:50

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:128 | Resp: | 2834        |
| Ion         | Ratio | Lower Upper |
| 128         | 100   |             |
| 127         | 16.3  | 10.3 15.5#  |
| 129         | 15.0  | 8.7 13.1#   |

