

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072823\
 Data File : VX036699.D
 Acq On : 28 Jul 2023 12:04
 Operator : JC/MD
 Sample : 03790-03
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 001-WILLETS-PT-BLVD(JULY)

Quant Time: Jul 28 16:17:03 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)

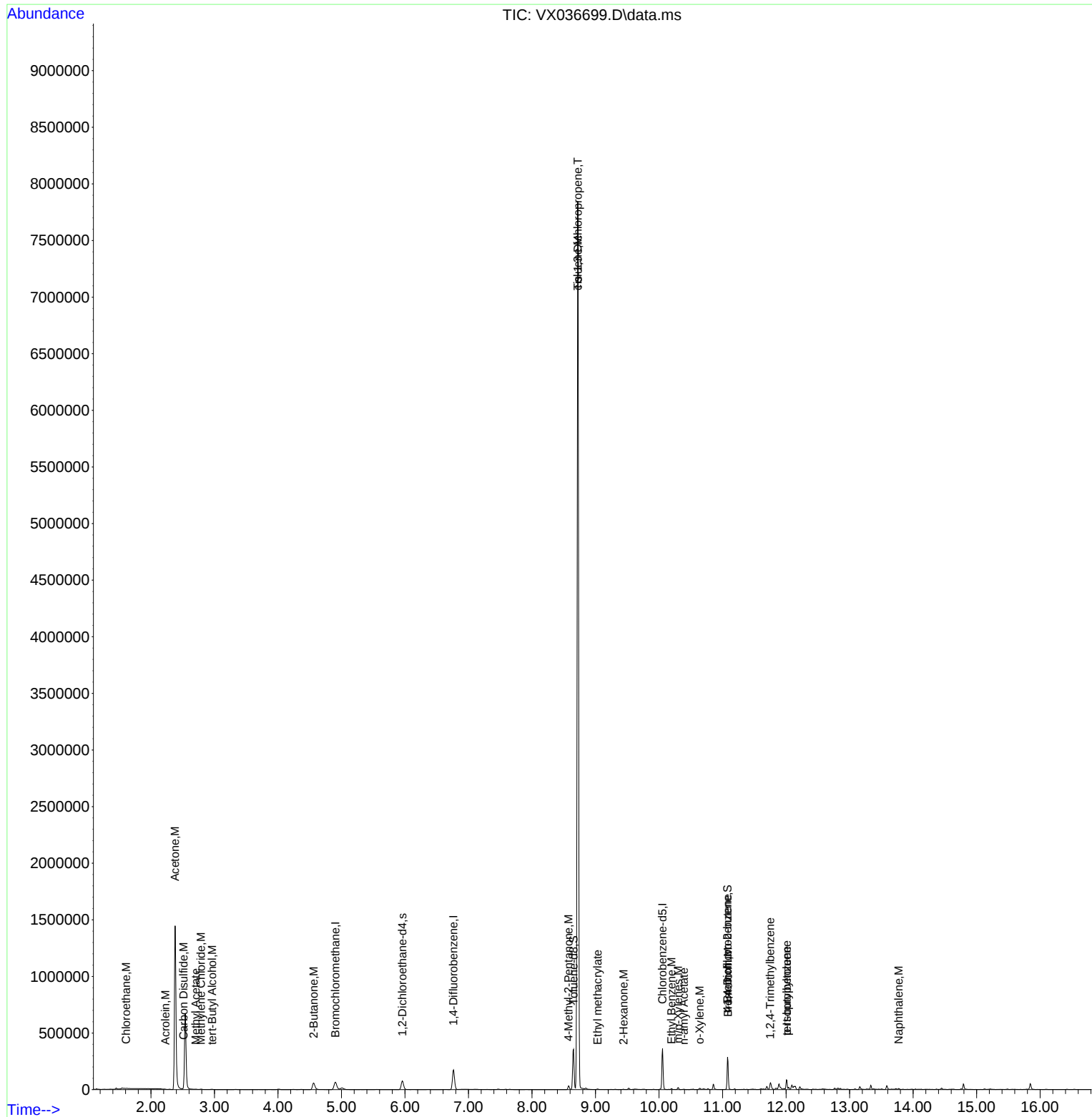
Internal Standards						
1) Bromochloromethane	4.904	128	29209	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	177077	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	158244	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	72967	30.099	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	100.333%
60) 4-Bromofluorobenzene	11.079	95	76121	29.655	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.867%
63) Toluene-d8	8.653	98	212084	29.125	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.100%
Target Compounds						
					Qvalue	
6) Chloroethane	1.605	64	1414	0.902	ug/l #	66
12) Methyl Acetate	2.703	43	2445	0.609	ug/l	97
13) Acrolein	2.227	56	137	0.416	ug/l #	25
15) Acetone	2.380	58	503501	1579.152	ug/l	89
16) Carbon Disulfide	2.514	76	3151	0.760	ug/l #	92
18) Methylene Chloride	2.788	84	1560	0.758	ug/l	97
23) tert-Butyl Alcohol	2.965	59	2189	4.186	ug/l #	1
30) 2-Butanone	4.562	43	101858	60.582	ug/l	99
47) n-amyl Acetate	10.390	43	1277	0.288	ug/l	92
49) cis-1,3-Dichloropropene	8.720	75	37708	10.851	ug/l #	1
51) Ethyl methacrylate	9.031	69	1015	0.295	ug/l	87
56) Bromoform	11.085	173	387	0.251	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	19750	6.036	ug/l	98
59) 2-Hexanone	9.439	43	1400	0.562	ug/l #	89
62) Toluene	8.720	91	4930414	555.306	ug/l	93
66) Ethyl Benzene	10.195	91	4874	0.505	ug/l	96
67) m/p-Xylenes	10.299	106	4242	1.128	ug/l	95
68) o-Xylene	10.640	106	1746	0.468	ug/l	93
77) t-1,4-Dichloro-2-butene	11.079	75	40160	38.886	ug/l #	7
79) tert-butylbenzene	12.012	119	38118	5.026	ug/l	65
80) 1,2,4-Trimethylbenzene	11.750	105	14441	1.824	ug/l	43
82) p-Isopropyltoluene	12.012	119	38118	4.799	ug/l	98
91) Naphthalene	13.774	128	4709	0.496	ug/l	98

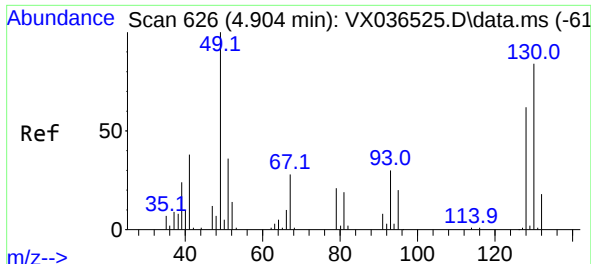
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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

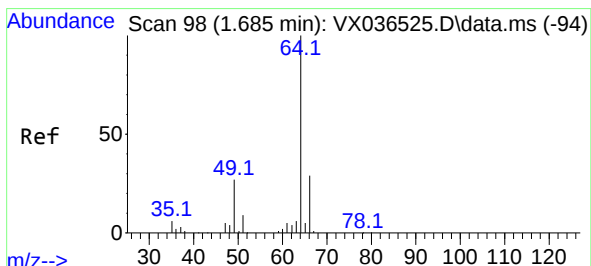
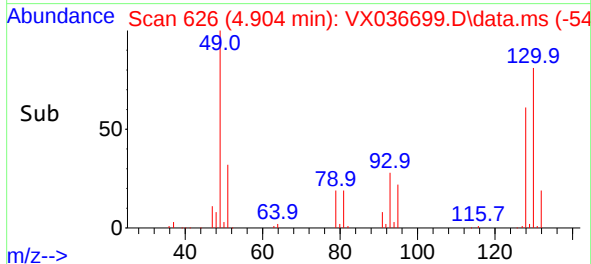
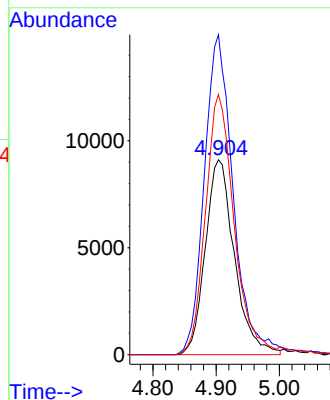
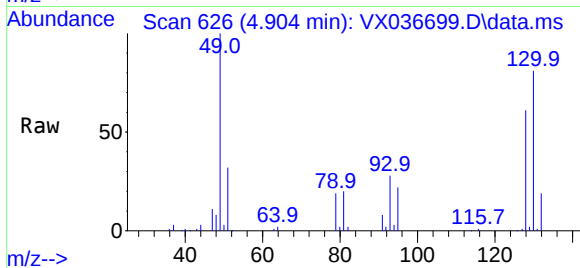




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

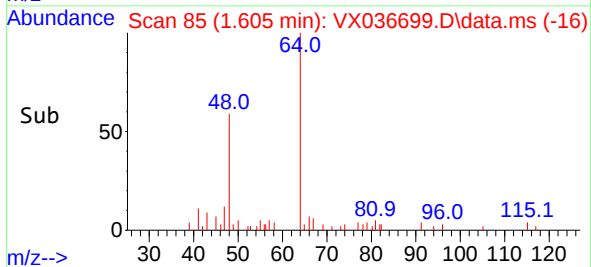
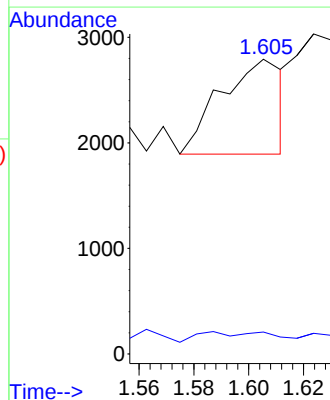
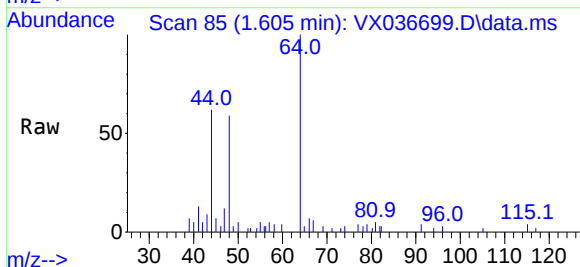
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

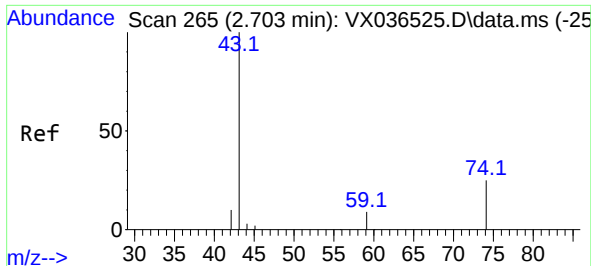
Tgt Ion:128 Resp: 29209
Ion Ratio Lower Upper
128 100
49 159.6 0.0 406.3
130 131.0 0.0 328.0



#6
Chloroethane
Concen: 0.902 ug/l
RT: 1.605 min Scan# 85
Delta R.T. -0.079 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

Tgt Ion: 64 Resp: 1414
Ion Ratio Lower Upper
64 100
66 10.8 23.1 34.7#

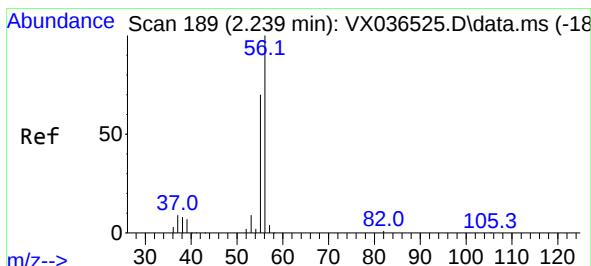
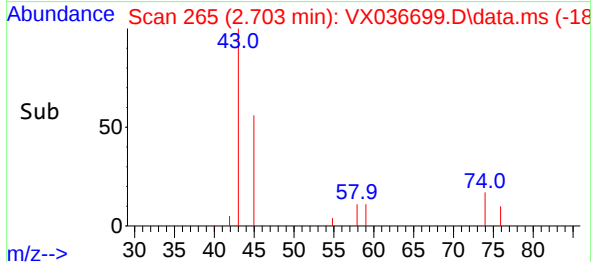
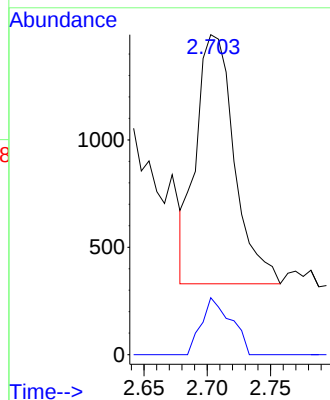
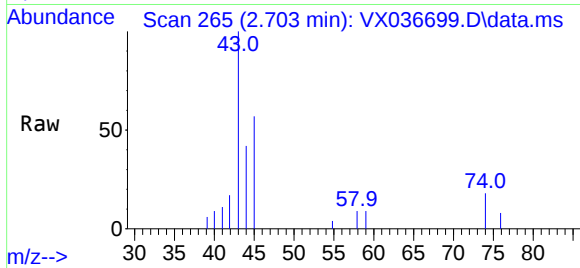




#12
Methyl Acetate
Concen: 0.609 ug/l
RT: 2.703 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

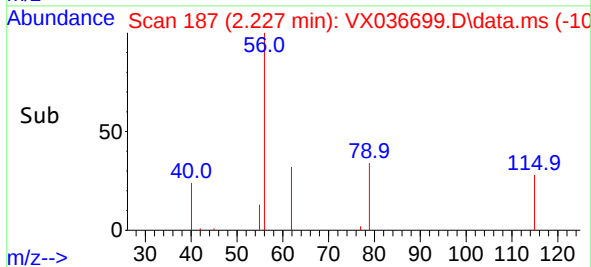
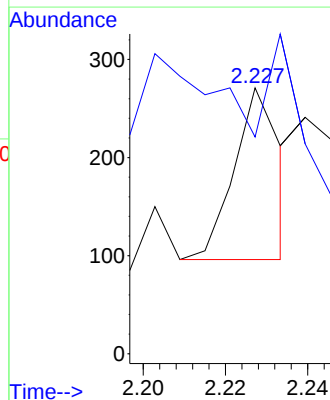
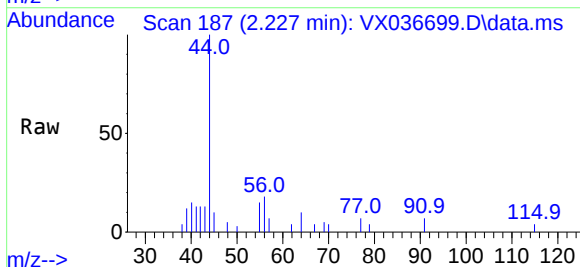
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

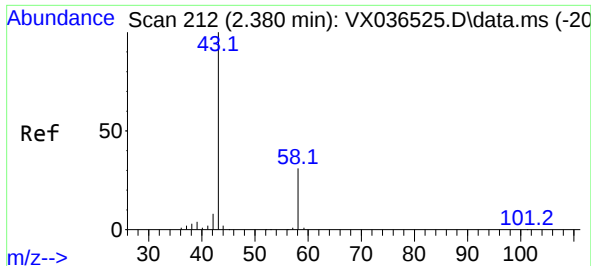
Tgt Ion: 43 Resp: 2445
Ion Ratio Lower Upper
43 100
74 26.8 20.3 30.5



#13
Acrolein
Concen: 0.416 ug/l
RT: 2.227 min Scan# 187
Delta R.T. -0.012 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

Tgt Ion: 56 Resp: 137
Ion Ratio Lower Upper
56 100
55 138.7 59.7 89.5#





#15

Acetone

Concen: 1579.152 ug/l

RT: 2.380 min Scan# 212

Delta R.T. -0.000 min

Lab File: VX036699.D

Acq: 28 Jul 2023 12:04

Instrument :

MSVOA_X

ClientSampleId :

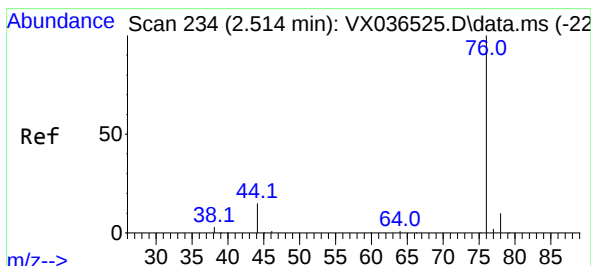
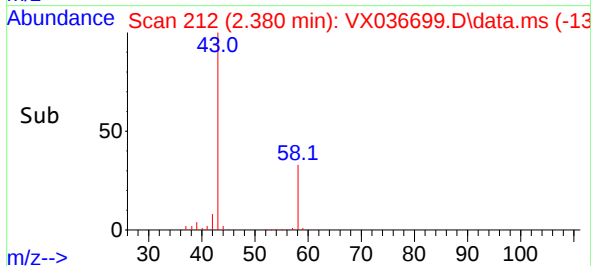
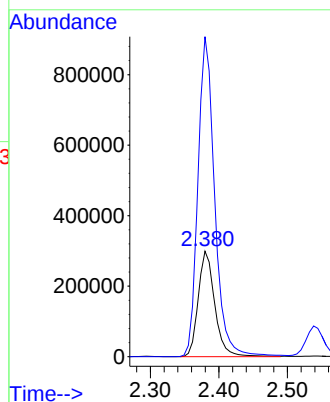
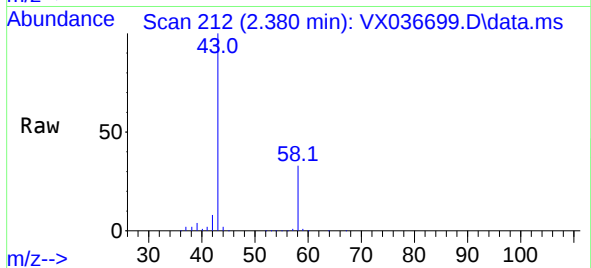
001-WILLETS-PT-BLVD(JULY)

Tgt Ion: 58 Resp: 503501

Ion Ratio Lower Upper

58 100

43 303.5 261.0 391.4



#16

Carbon Disulfide

Concen: 0.760 ug/l

RT: 2.514 min Scan# 234

Delta R.T. -0.000 min

Lab File: VX036699.D

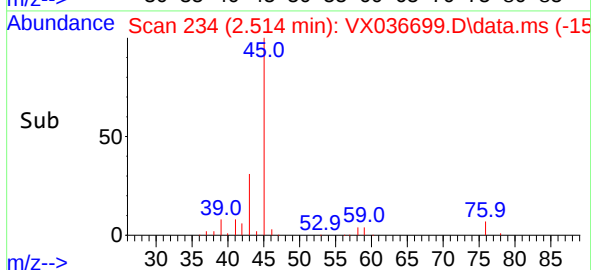
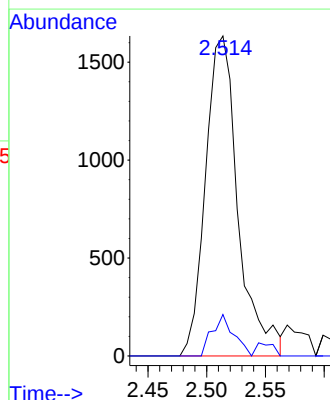
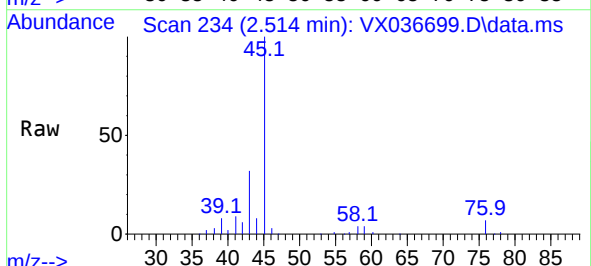
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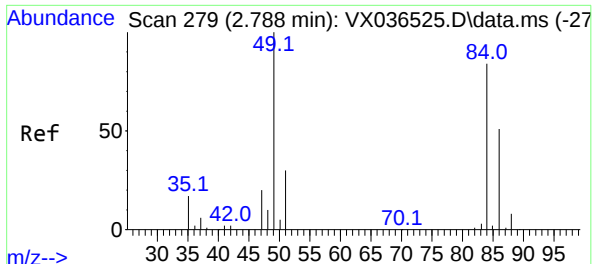
Tgt Ion: 76 Resp: 3151

Ion Ratio Lower Upper

76 100

78 13.0 8.0 12.0#



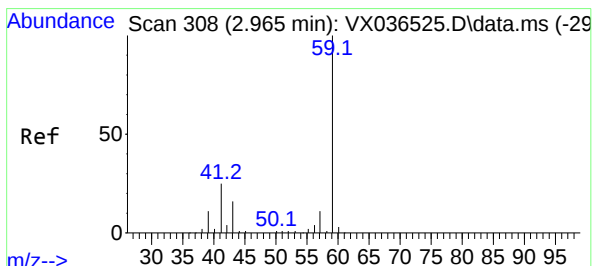
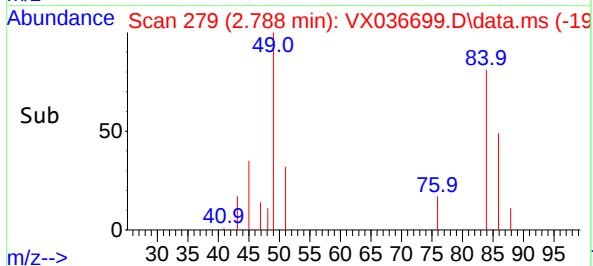
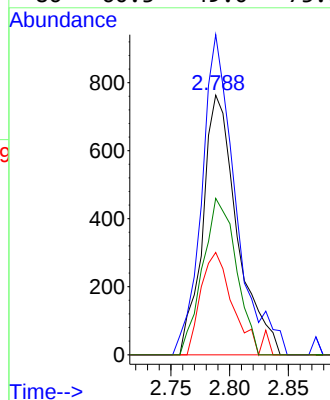
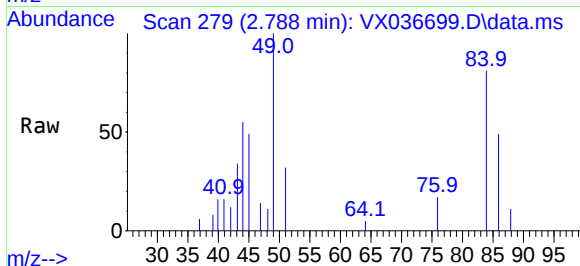


#18
Methylene Chloride
Concen: 0.758 ug/l
RT: 2.788 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

Tgt Ion: 84 Resp: 1560

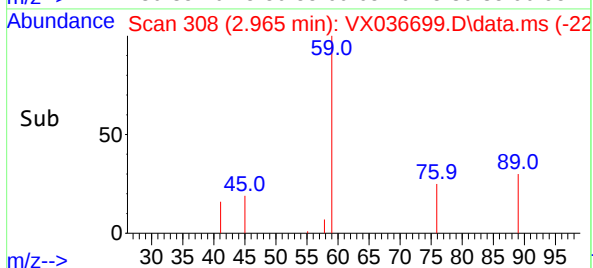
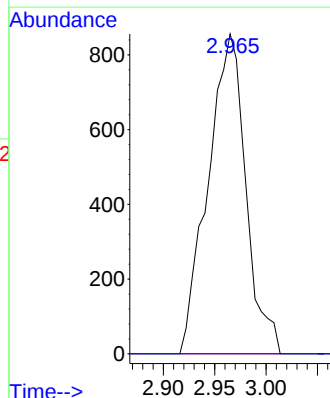
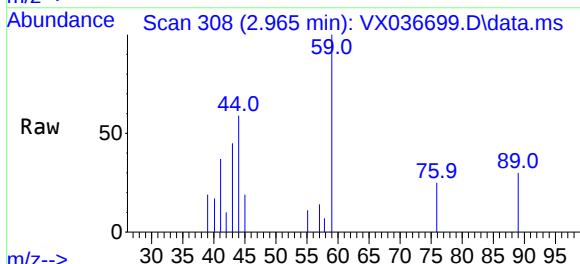
Ion	Ratio	Lower	Upper
84	100		
49	116.0	95.4	143.0
51	39.4	28.3	42.5
86	60.3	49.0	73.6

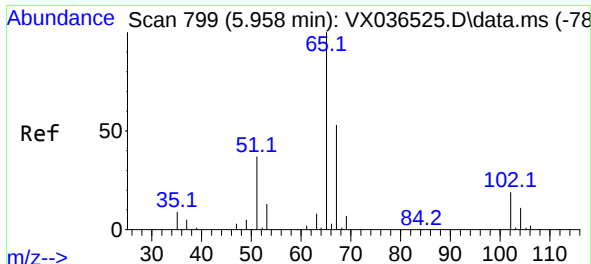


#23
tert-Butyl Alcohol
Concen: 4.186 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

Tgt Ion: 59 Resp: 2189

Ion	Ratio	Lower	Upper
59	100		
52	0.0	142.6	213.8#

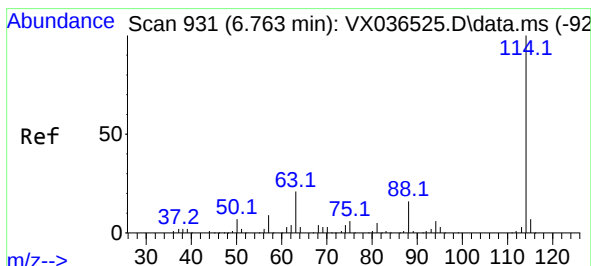
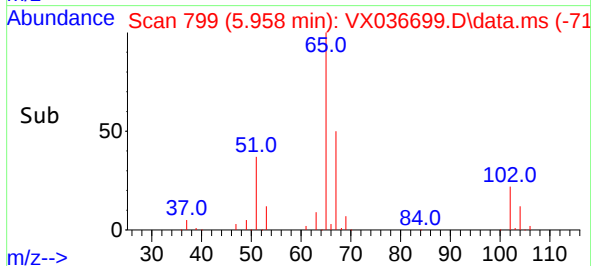
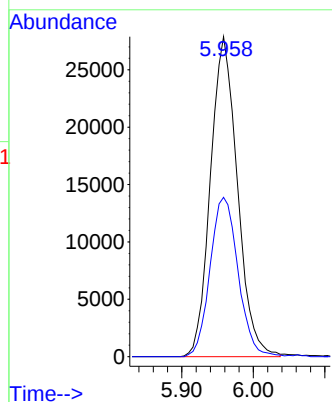
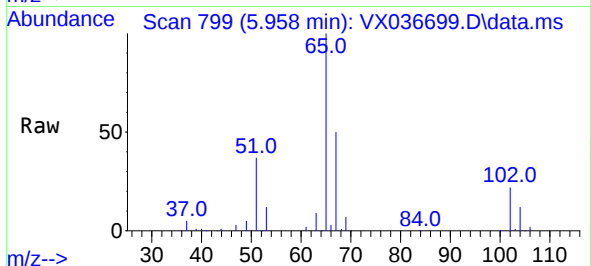




#27
1,2-Dichloroethane-d4
Concen: 30.099 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

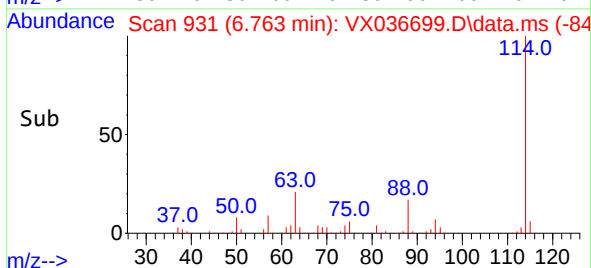
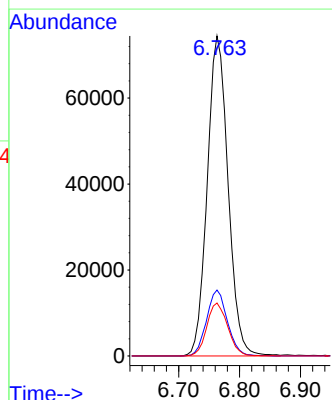
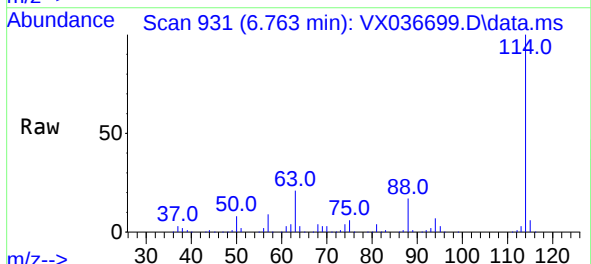
Instrument :
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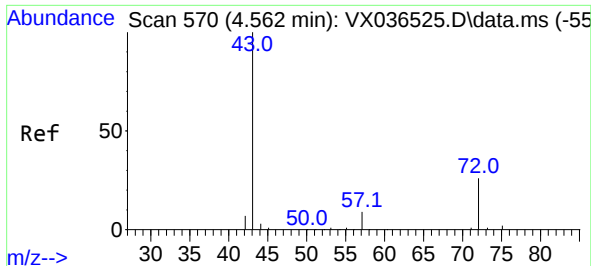
Tgt Ion: 65 Resp: 72967
Ion Ratio Lower Upper
65 100
67 51.8 42.1 63.1



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 931
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

Tgt Ion: 114 Resp: 177077
Ion Ratio Lower Upper
114 100
63 20.5 16.6 24.8
88 16.6 12.9 19.3

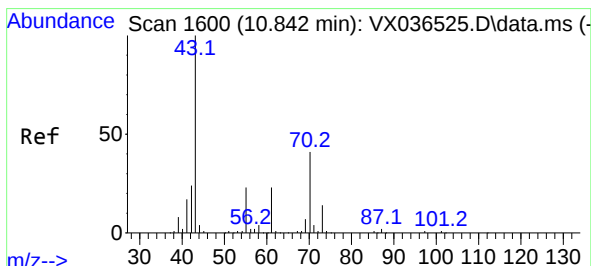
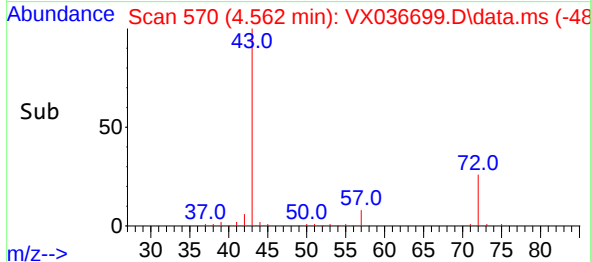
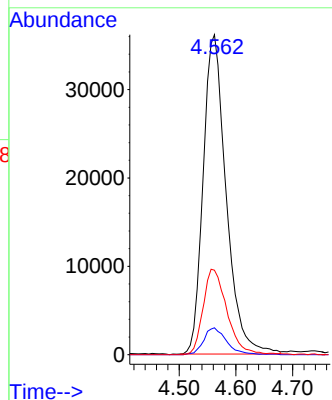
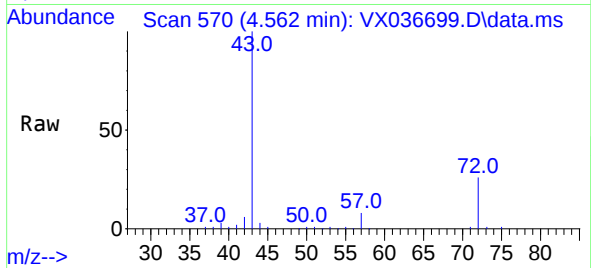




#30
2-Butanone
Concen: 60.582 ug/l
RT: 4.562 min Scan# 51
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

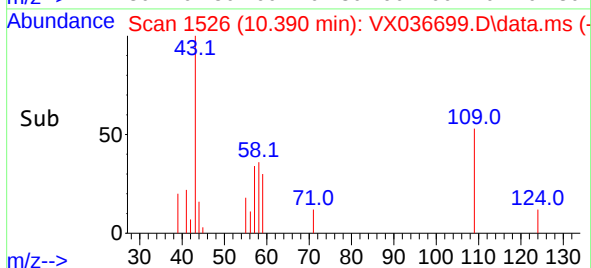
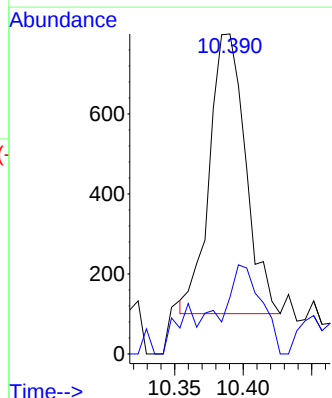
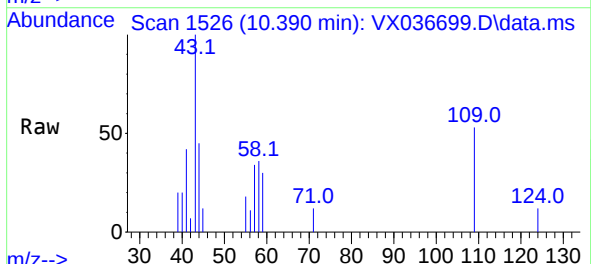
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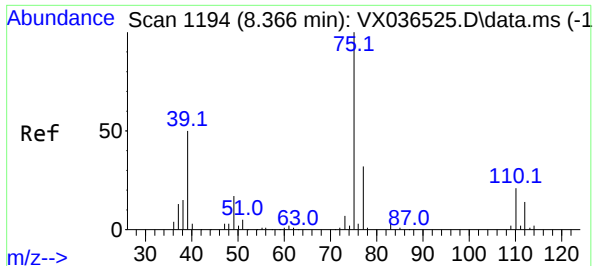
Tgt Ion: 43 Resp: 101858
Ion Ratio Lower Upper
43 100
57 8.4 6.4 9.6
72 27.6 21.6 32.4



#47
n-amy1 Acetate
Concen: 0.288 ug/l
RT: 10.390 min Scan# 1526
Delta R.T. -0.451 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

Tgt Ion: 43 Resp: 1277
Ion Ratio Lower Upper
43 100
55 27.2 18.6 28.0





#49

cis-1,3-Dichloropropene

Concen: 10.851 ug/l

RT: 8.720 min Scan# 11

Delta R.T. 0.354 min

Lab File: VX036699.D

Acq: 28 Jul 2023 12:04

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JULY)

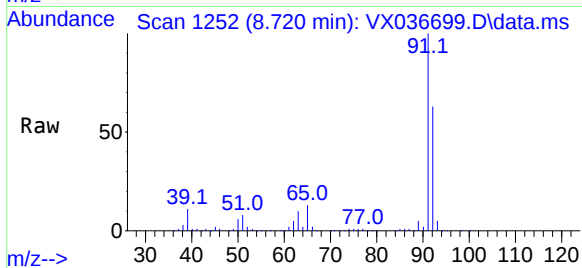
Tgt Ion: 75 Resp: 37708

Ion Ratio Lower Upper

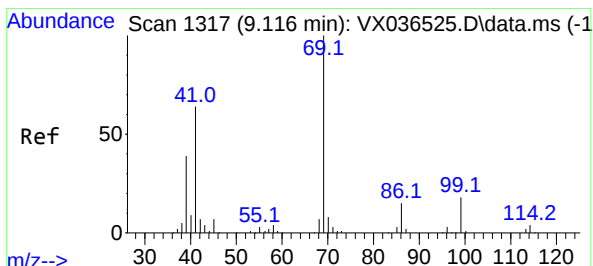
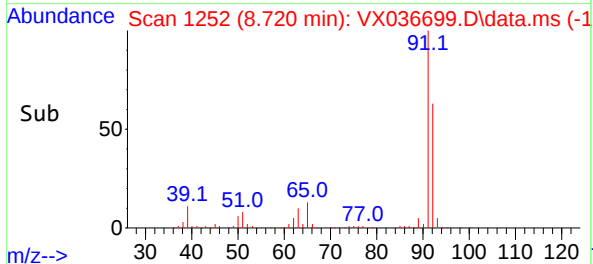
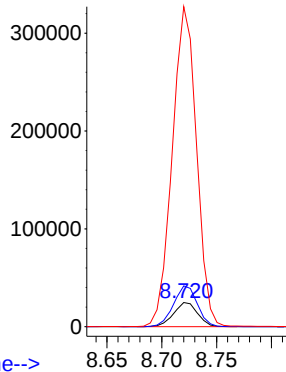
75 100

77 168.7 25.4 38.2#

39 1321.0 40.2 60.4#



Abundance



#51

Ethyl methacrylate

Concen: 0.295 ug/l

RT: 9.031 min Scan# 1303

Delta R.T. -0.085 min

Lab File: VX036699.D

Acq: 28 Jul 2023 12:04

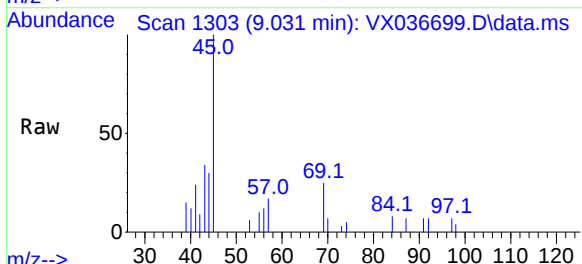
Tgt Ion: 69 Resp: 1015

Ion Ratio Lower Upper

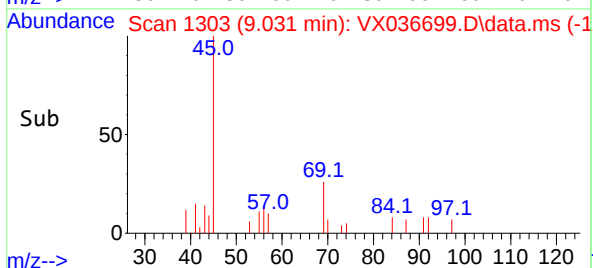
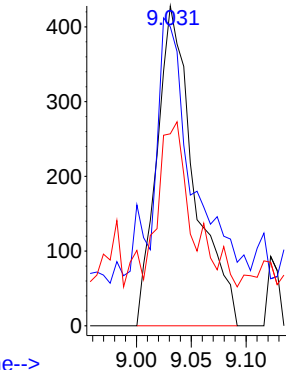
69 100

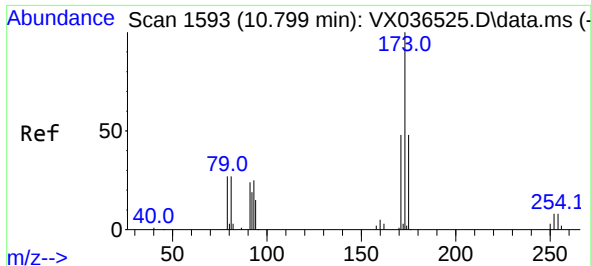
41 73.6 32.0 96.0

39 47.9 19.4 58.4



Abundance

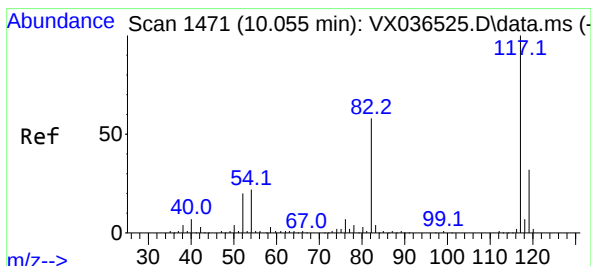
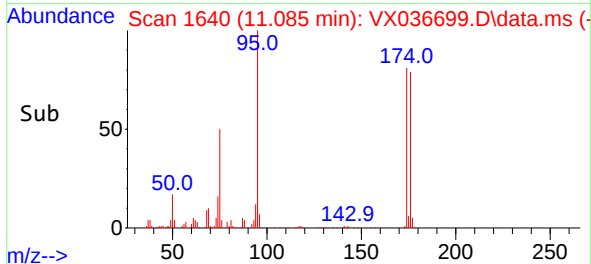
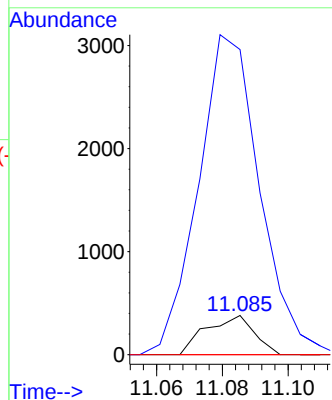
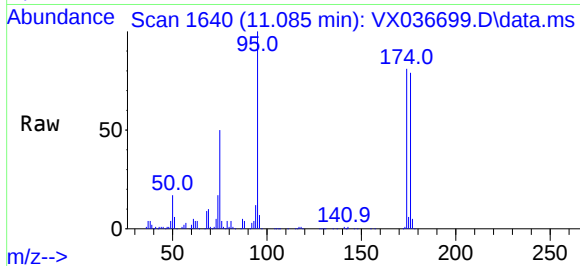




#56
Bromoform
Concen: 0.251 ug/l
RT: 11.085 min Scan# 11
Delta R.T. 0.286 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

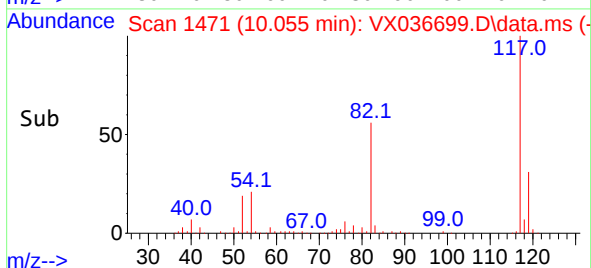
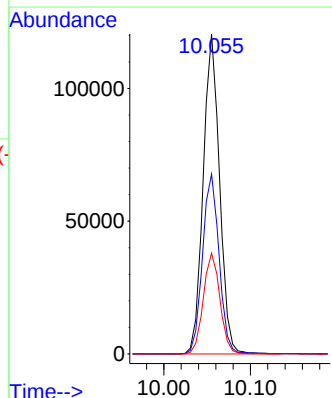
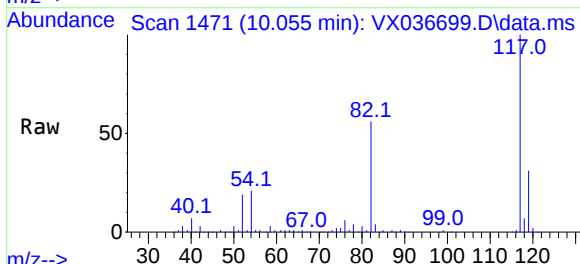
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

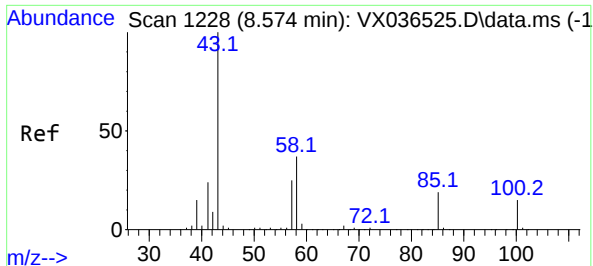
Tgt Ion:173 Resp: 387
Ion Ratio Lower Upper
173 100
175 1041.9 38.1 57.1#
254 0.0 6.7 10.1#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

Tgt Ion:117 Resp: 158244
Ion Ratio Lower Upper
117 100
82 56.8 44.7 67.1
119 31.9 25.6 38.4





#58

4-Methyl-2-Pentanone

Concen: 6.036 ug/l

RT: 8.574 min Scan# 11

Delta R.T. -0.000 min

Lab File: VX036699.D

Acq: 28 Jul 2023 12:04

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JULY)

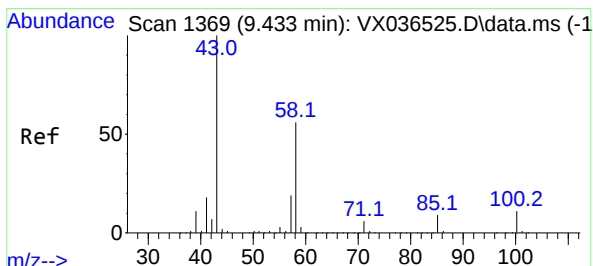
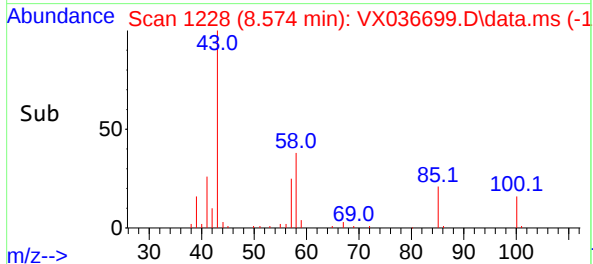
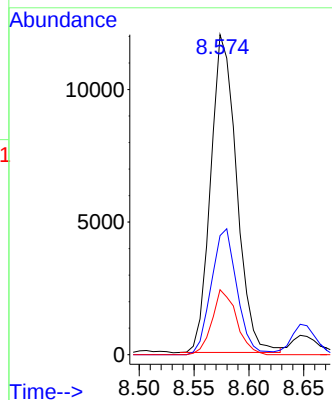
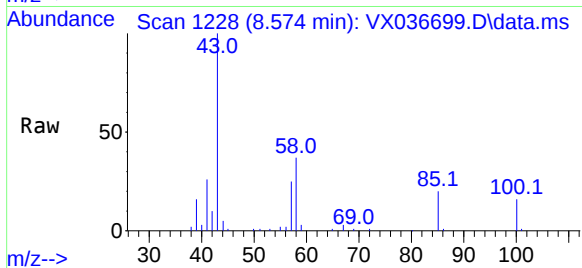
Tgt Ion: 43 Resp: 19750

Ion Ratio Lower Upper

43 100

58 39.4 30.9 46.3

85 19.3 14.4 21.6



#59

2-Hexanone

Concen: 0.562 ug/l

RT: 9.439 min Scan# 1370

Delta R.T. 0.006 min

Lab File: VX036699.D

Acq: 28 Jul 2023 12:04

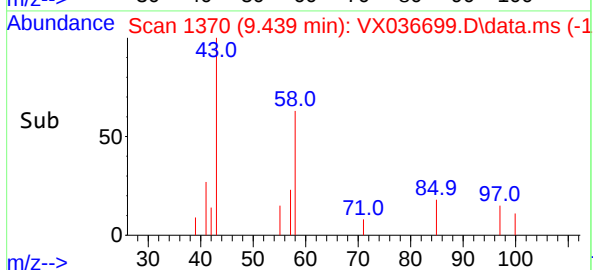
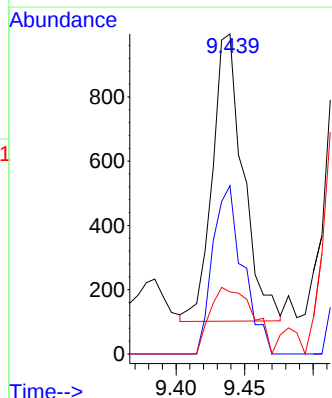
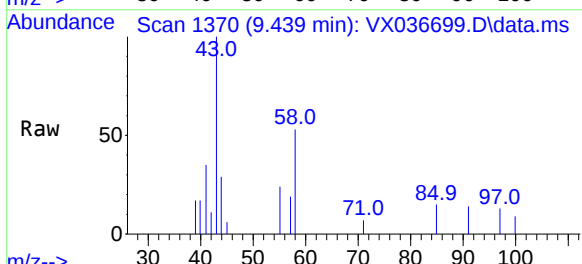
Tgt Ion: 43 Resp: 1400

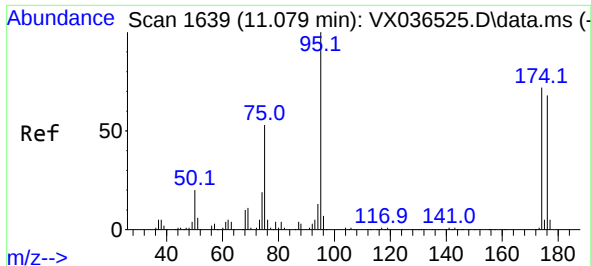
Ion Ratio Lower Upper

43 100

58 57.4 43.4 65.2

57 31.9 15.1 22.7#

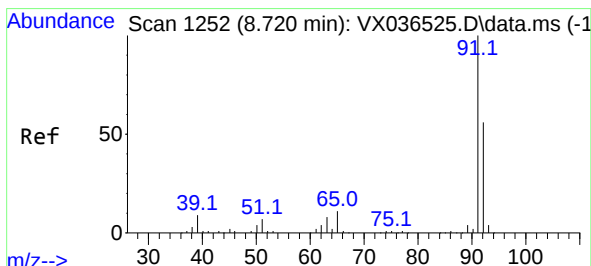
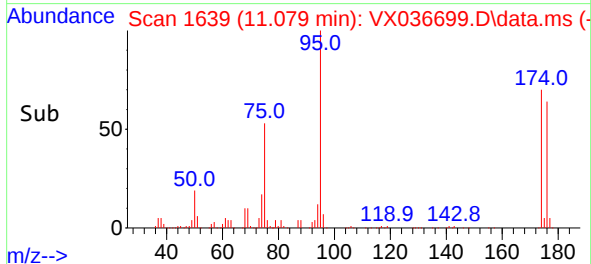
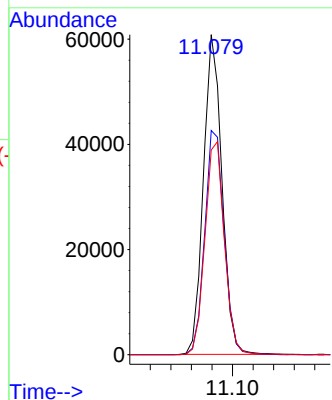
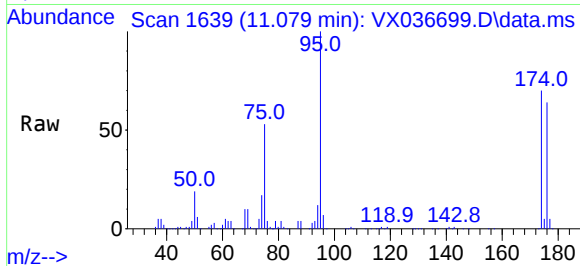




#60
4-Bromofluorobenzene
Concen: 29.655 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

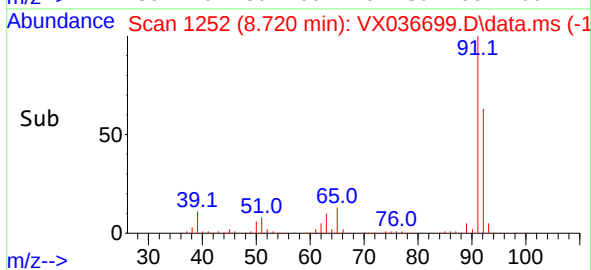
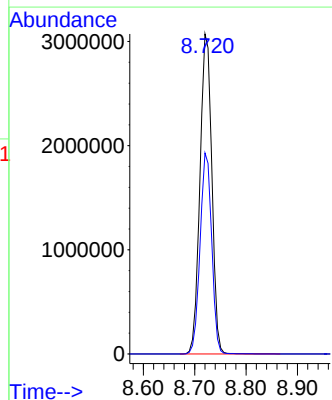
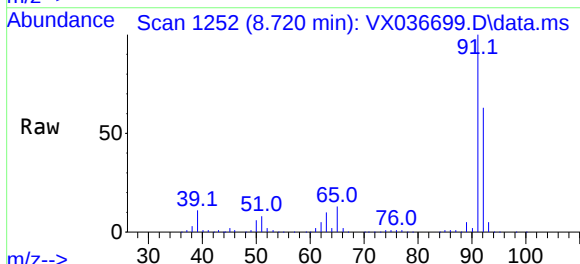
Instrument : MSVOA_X
ClientSampleId : 001-WILLETS-PT-BLVD(JULY)

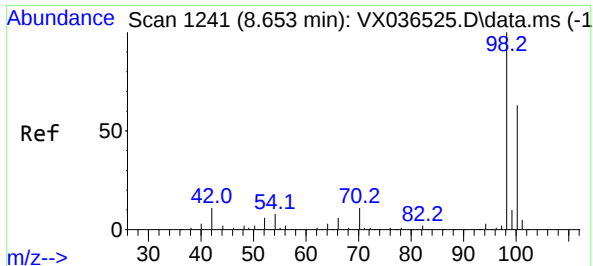
Tgt Ion: 95 Resp: 76121
Ion Ratio Lower Upper
95 100
174 73.8 60.5 90.7
176 70.0 58.2 87.4



#62
Toluene
Concen: 555.306 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

Tgt Ion: 91 Resp: 4930414
Ion Ratio Lower Upper
91 100
92 61.4 44.9 67.3

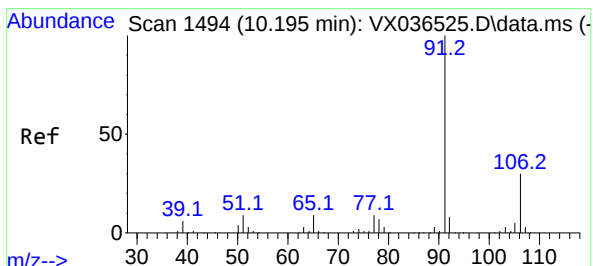
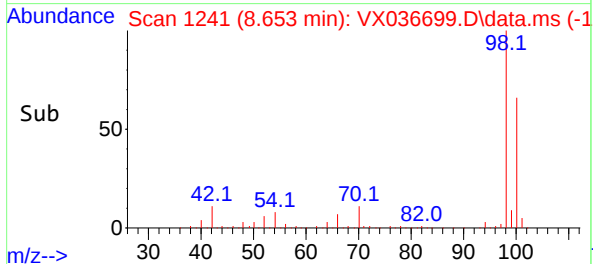
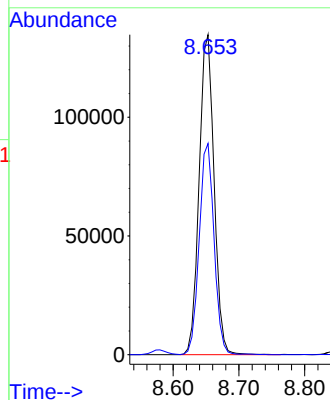
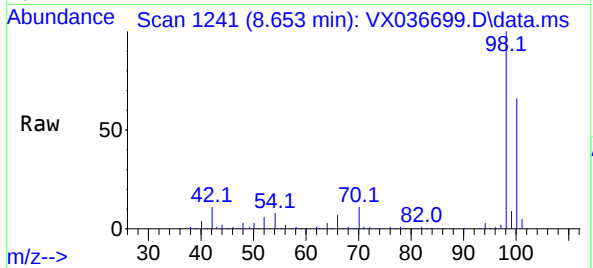




#63
Toluene-d8
Concen: 29.125 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

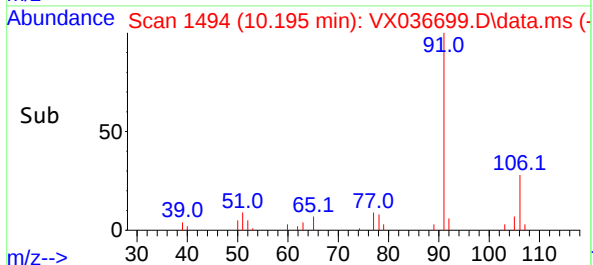
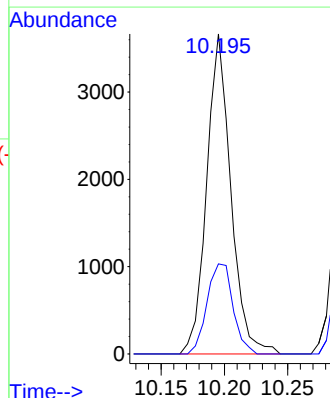
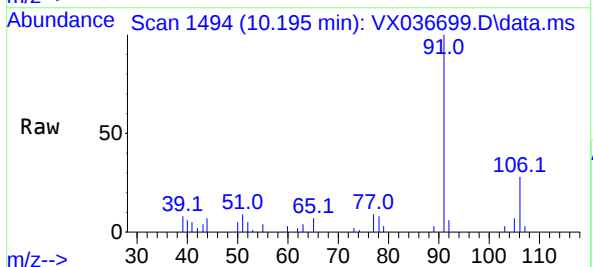
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

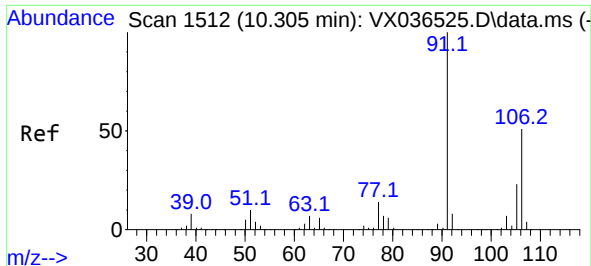
Tgt Ion: 98 Resp: 212084
Ion Ratio Lower Upper
98 100
100 65.3 51.6 77.4



#66
Ethyl Benzene
Concen: 0.505 ug/l
RT: 10.195 min Scan# 1494
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

Tgt Ion: 91 Resp: 4874
Ion Ratio Lower Upper
91 100
106 28.2 24.2 36.4

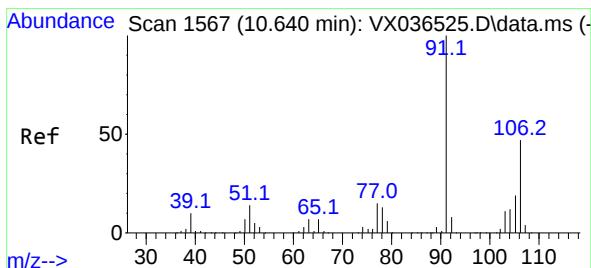
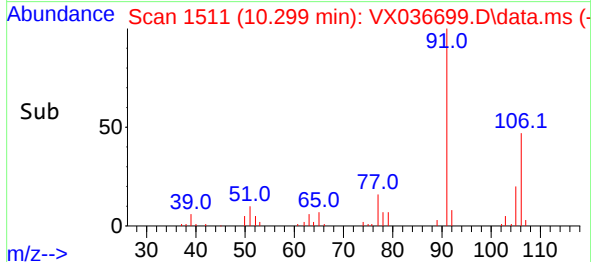
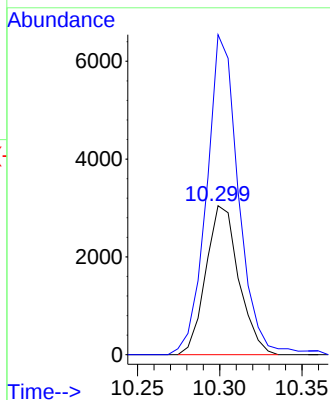
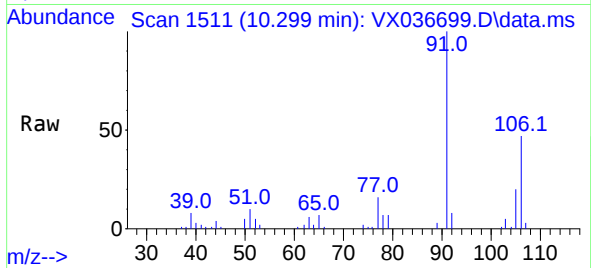




#67
m/p-Xylenes
Concen: 1.128 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. -0.006 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

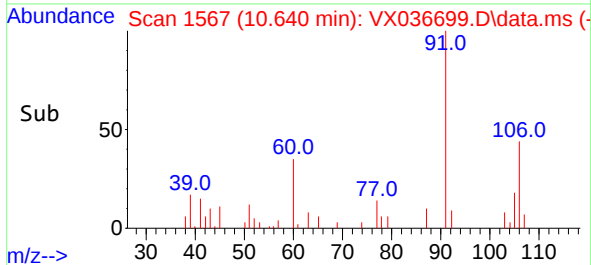
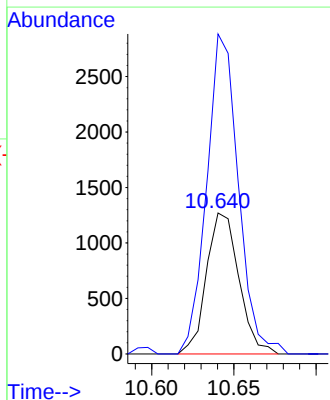
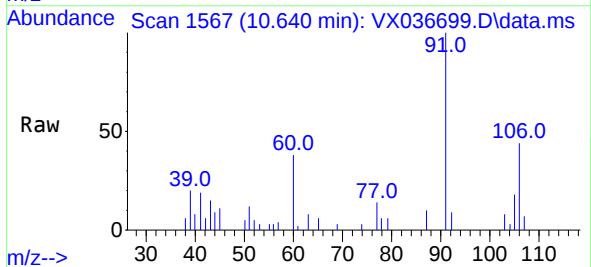
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

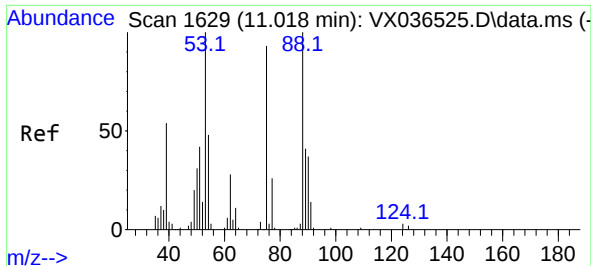
Tgt Ion:106 Resp: 4242
Ion Ratio Lower Upper
106 100
91 208.0 160.5 240.7



#68
o-Xylene
Concen: 0.468 ug/l
RT: 10.640 min Scan# 1567
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

Tgt Ion:106 Resp: 1746
Ion Ratio Lower Upper
106 100
91 221.6 105.4 316.1

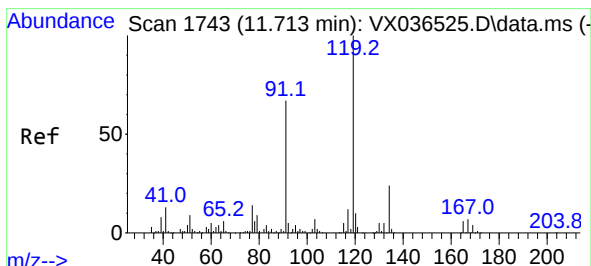
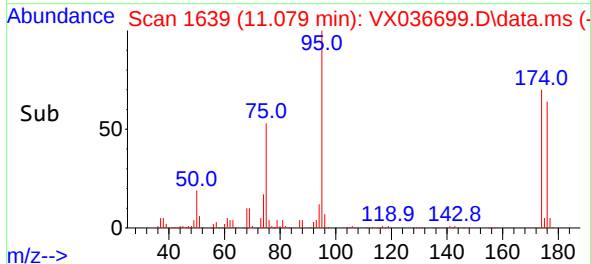
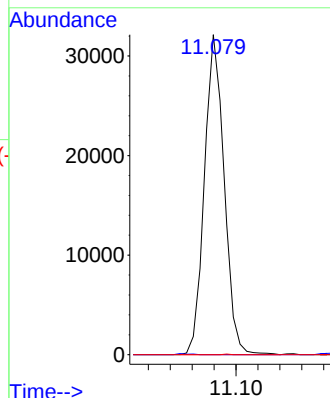
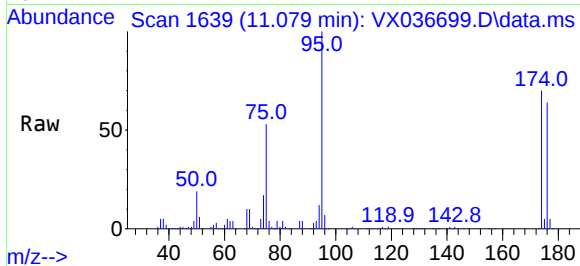




#77
t-1,4-Dichloro-2-butene
Concen: 38.886 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

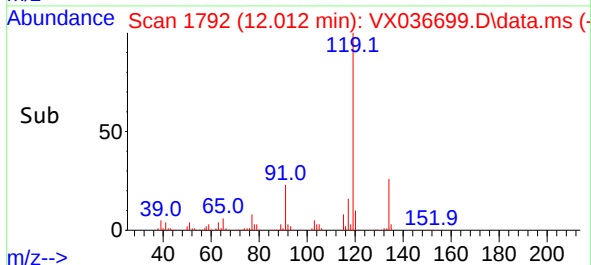
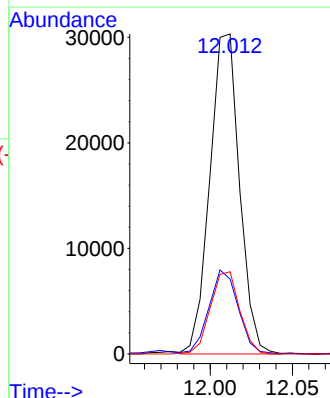
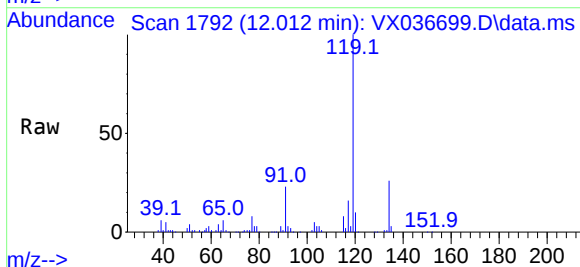
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

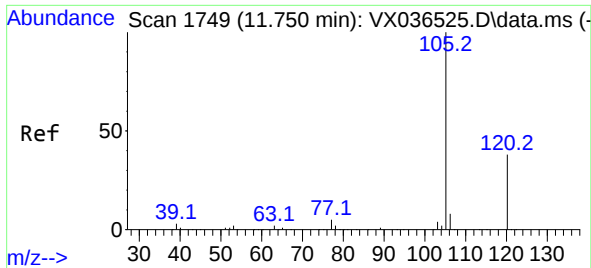
Tgt Ion: 75 Resp: 40160
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.1 66.1#



#79
tert-butylbenzene
Concen: 5.026 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.299 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

Tgt Ion: 119 Resp: 38118
Ion Ratio Lower Upper
119 100
91 25.8 0.0 124.4
134 25.3 0.0 47.2

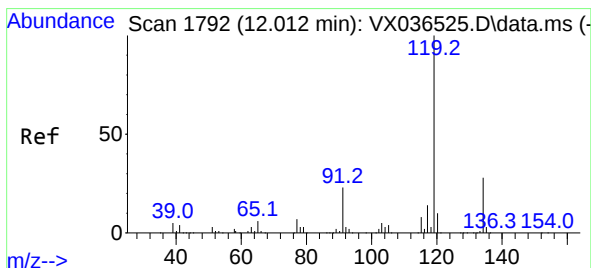
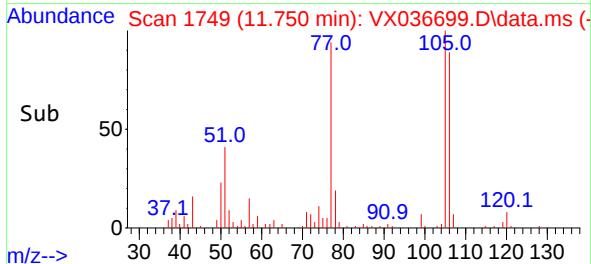
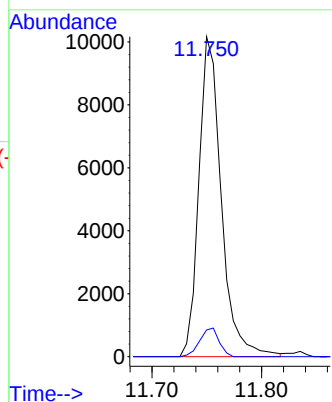
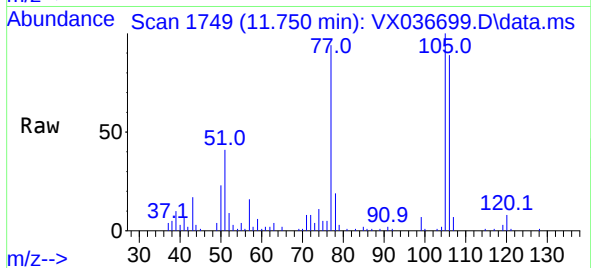




#80
1,2,4-Trimethylbenzene
Concen: 1.824 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

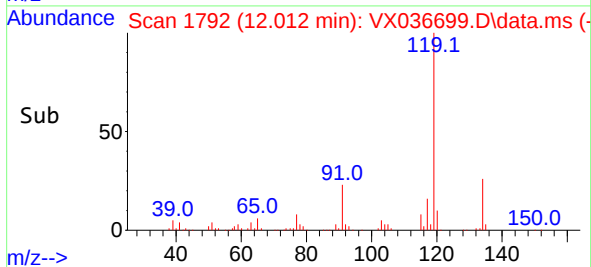
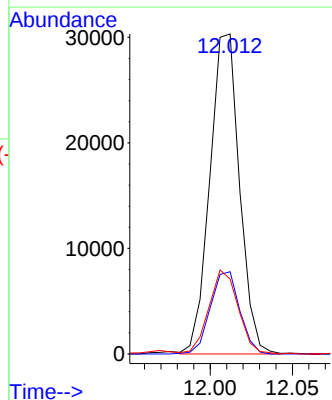
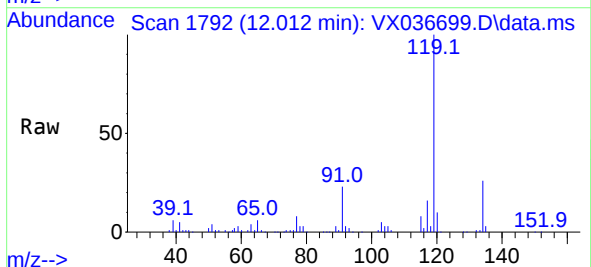
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

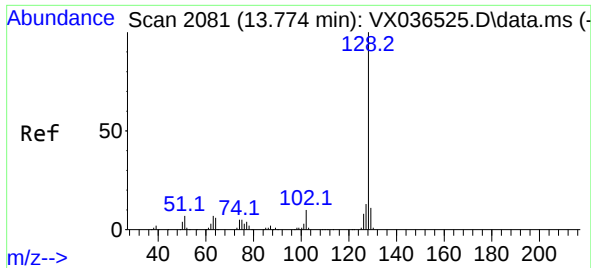
Tgt Ion:105 Resp: 14441
Ion Ratio Lower Upper
105 100
120 7.7 0.0 90.2



#82
p-Isopropyltoluene
Concen: 4.799 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

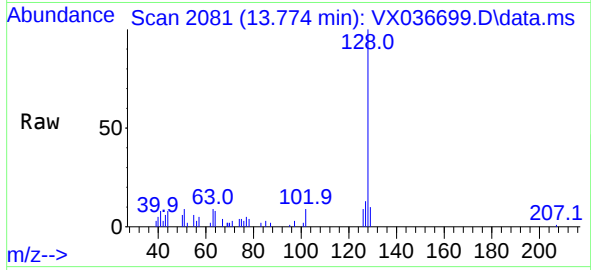
Tgt Ion:119 Resp: 38118
Ion Ratio Lower Upper
119 100
134 25.3 0.0 53.2
91 25.8 0.0 49.4





#91
Naphthalene
Concen: 0.496 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX036699.D
Acq: 28 Jul 2023 12:04

Instrument : MSVOA_X
ClientSampleId : 001-WILLETS-PT-BLVD(JULY)



Tgt Ion:	128	Resp:	4709
Ion	Ratio	Lower	Upper
128	100		
127	13.8	10.3	15.5
129	11.1	8.7	13.1

