

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX072823\
 Data File : VX036704.D
 Acq On : 28 Jul 2023 14:04
 Operator : JC/MD
 Sample : 03790-03DL 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 14 Sample Multiplier: 1

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

Quant Time: Jul 28 16:17:58 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)

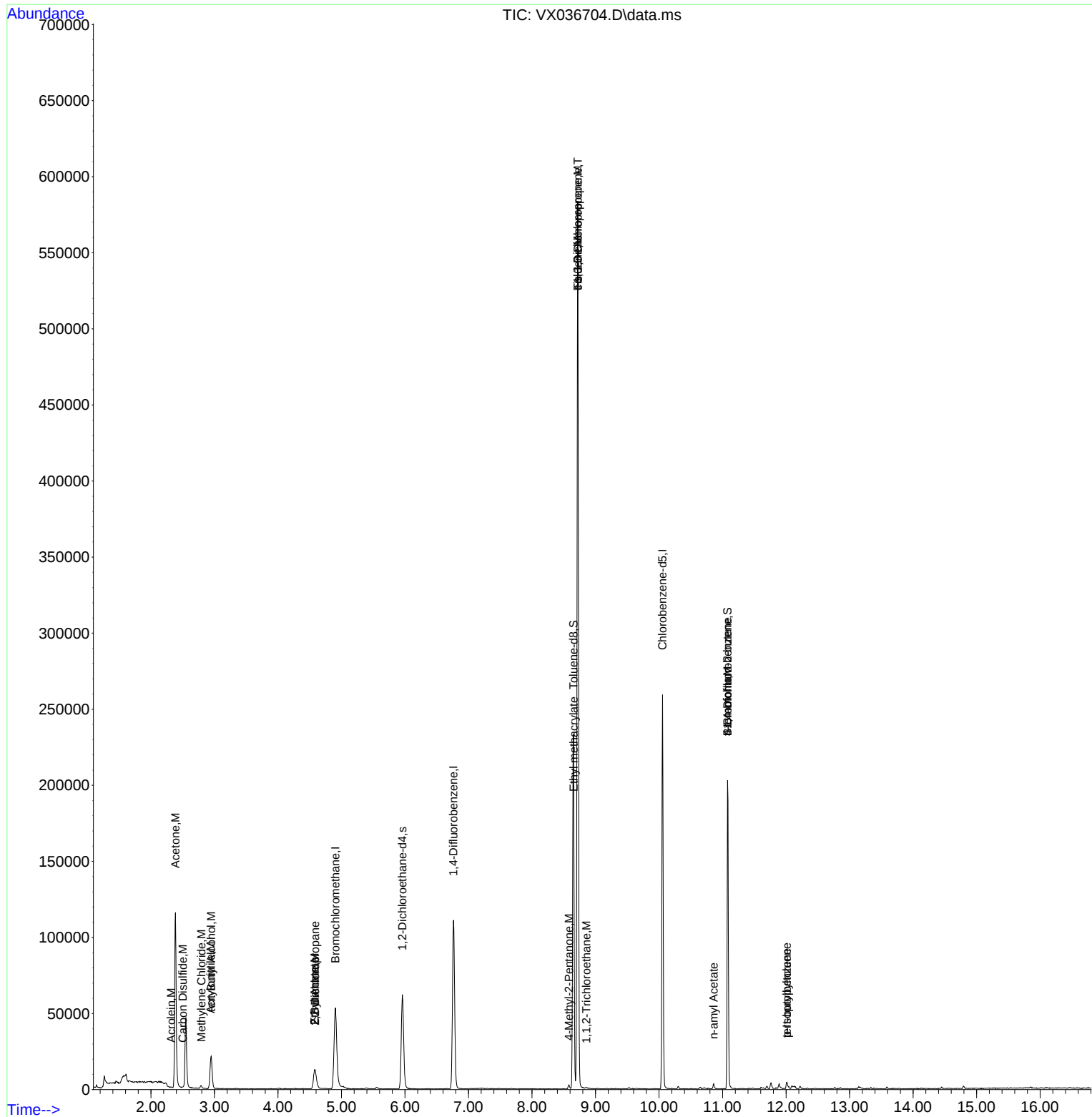
Internal Standards						
1) Bromochloromethane	4.904	128	23643	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	116253	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	113953	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	59332	30.236	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 100.800%	
60) 4-Bromofluorobenzene	11.079	95	55492	30.021	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 100.067%	
63) Toluene-d8	8.653	98	141123	26.913	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 89.700%#	
Target Compounds						Qvalue
13) Acrolein	2.319	56	79	0.296	ug/l	85
14) Acrylonitrile	2.941	53	268	0.294	ug/l #	23
15) Acetone	2.386	58	40133	155.503	ug/l	89
16) Carbon Disulfide	2.502	76	717	0.214	ug/l #	73
18) Methylene Chloride	2.794	84	993	0.596	ug/l #	88
23) tert-Butyl Alcohol	2.947	59	12778	30.185	ug/l #	1
30) 2-Butanone	4.574	43	8655	7.841	ug/l	97
31) 2,2-Dichloropropane	4.587	77	749	0.390	ug/l #	52
43) Ethyl Acetate	4.574	43	8655	4.028	ug/l	95
47) n-amyl Acetate	10.860	43	800	0.275	ug/l #	23
48) t-1,3-Dichloropropene	8.720	75	2451	1.161	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	2451	1.074	ug/l #	1
50) 1,1,2-Trichloroethane	8.854	97	322	0.224	ug/l #	14
51) Ethyl methacrylate	8.659	69	490	0.217	ug/l	82
56) Bromoform	11.079	173	356	0.352	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	1827	0.775	ug/l	94
62) Toluene	8.720	91	370805	57.996	ug/l	97
77) t-1,4-Dichloro-2-butene	11.079	75	28195	37.912	ug/l #	7
79) tert-butylbenzene	12.012	119	1941	0.355	ug/l	64
82) p-Isopropyltoluene	12.012	119	1941	0.339	ug/l	98

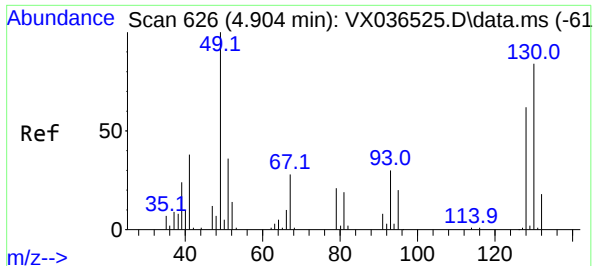
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Jul 14 04:32:22 2023
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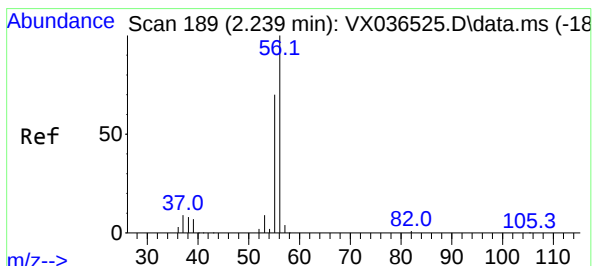
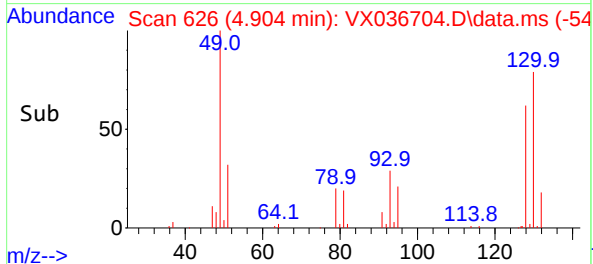
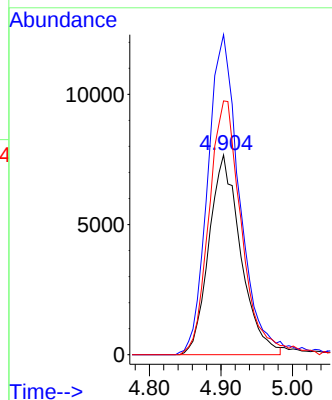
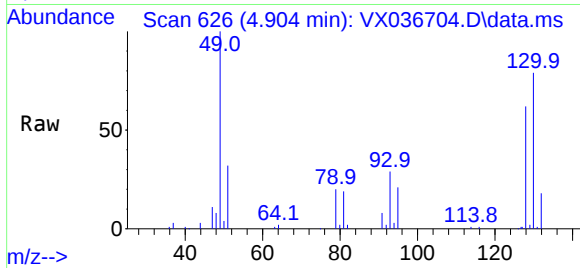




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.904 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

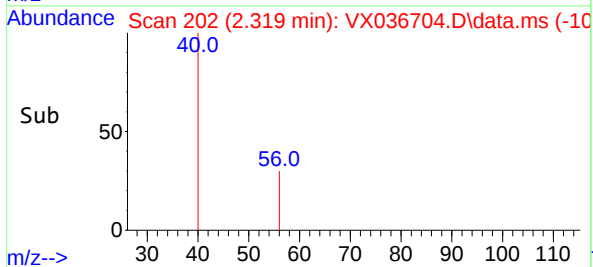
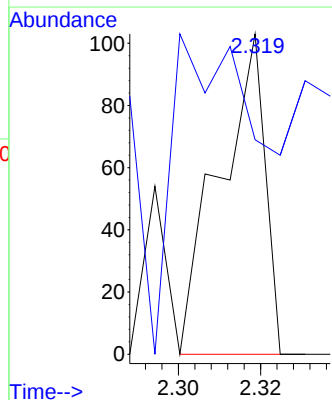
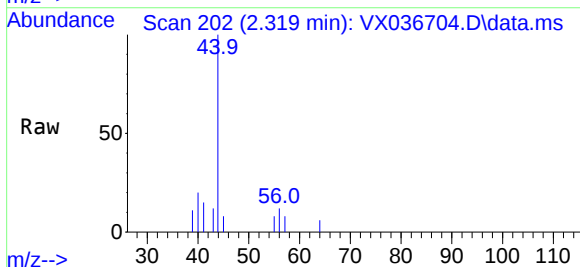
Instrument :
MSVOA_X
ClientSampleId :
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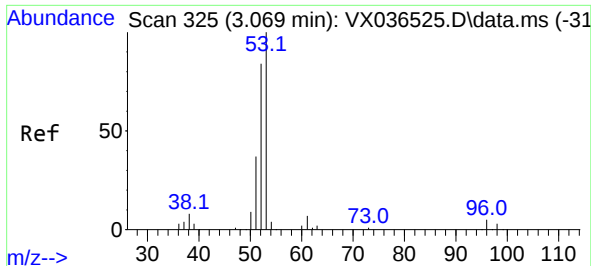
Tgt Ion:128 Resp: 23643
Ion Ratio Lower Upper
128 100
49 159.8 0.0 406.3
130 129.4 0.0 328.0



#13
Acrolein
Concen: 0.296 ug/l
RT: 2.319 min Scan# 202
Delta R.T. 0.079 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

Tgt Ion: 56 Resp: 79
Ion Ratio Lower Upper
56 100
55 62.0 59.7 89.5

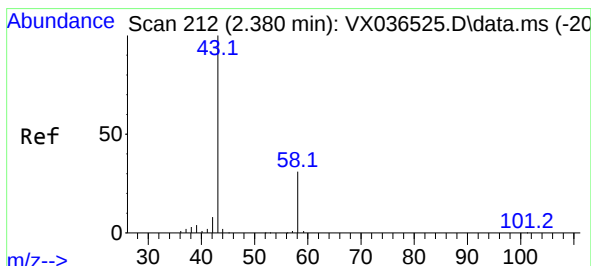
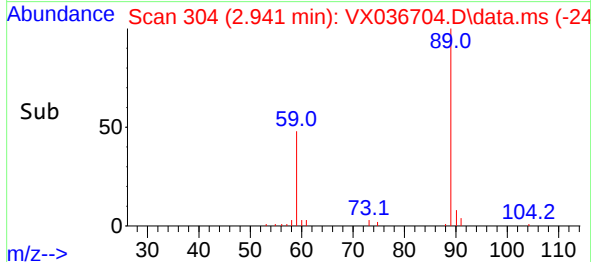
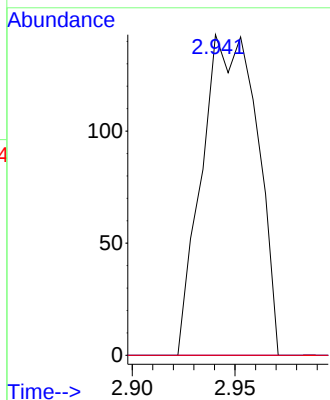
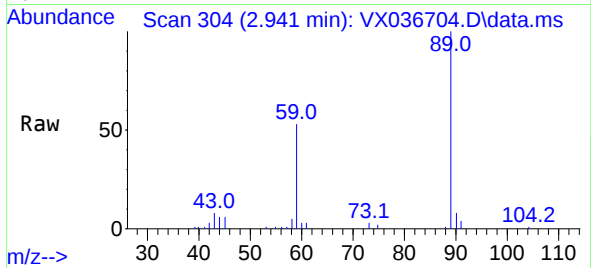




#14
Acrylonitrile
Concen: 0.294 ug/l
RT: 2.941 min Scan# 304
Delta R.T. -0.128 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

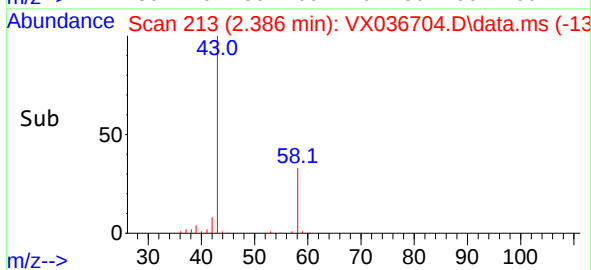
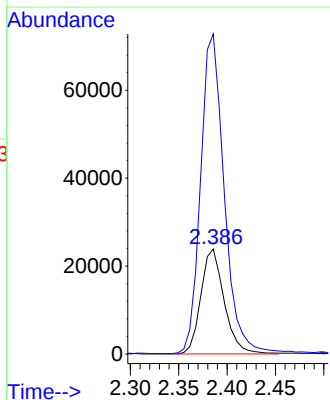
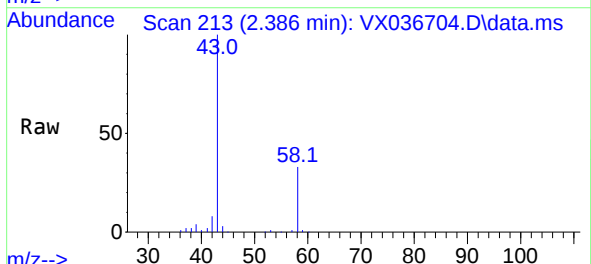
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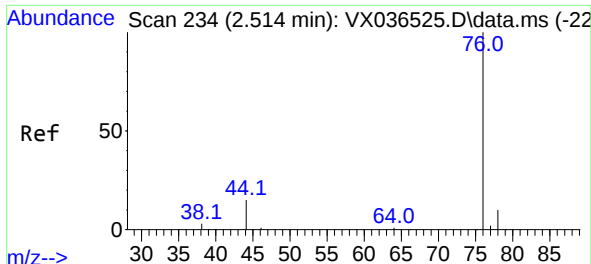
Tgt Ion: 53 Resp: 268
Ion Ratio Lower Upper
53 100
52 0.0 40.0 119.9#
51 8.2 18.2 54.6#



#15
Acetone
Concen: 155.503 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

Tgt Ion: 58 Resp: 40133
Ion Ratio Lower Upper
58 100
43 303.9 261.0 391.4

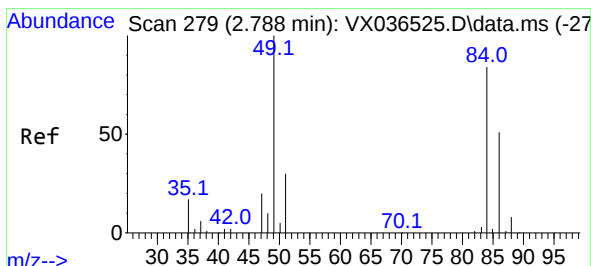
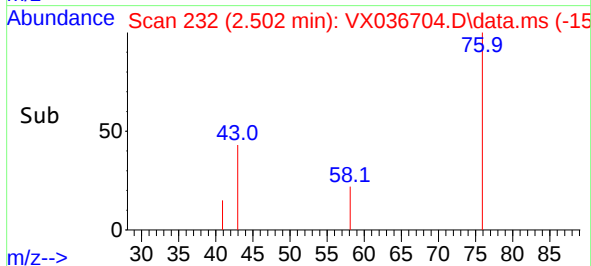
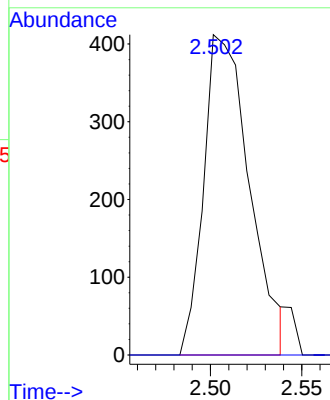
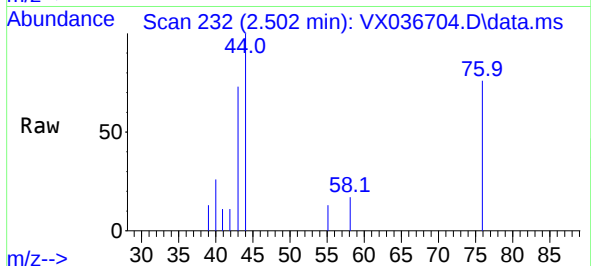




#16
Carbon Disulfide
Concen: 0.214 ug/l
RT: 2.502 min Scan# 21
Delta R.T. -0.012 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

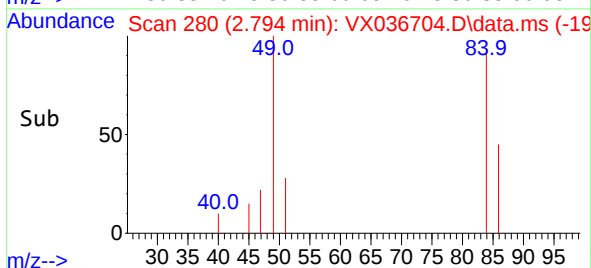
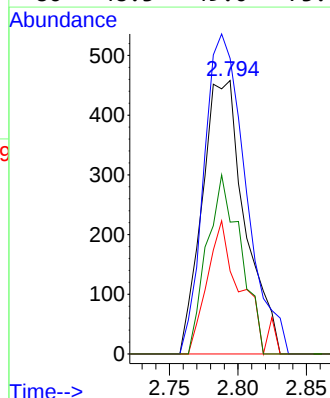
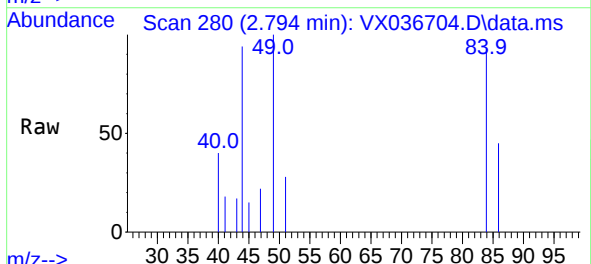
Instrument :
MSVOA_X
ClientSampleId :
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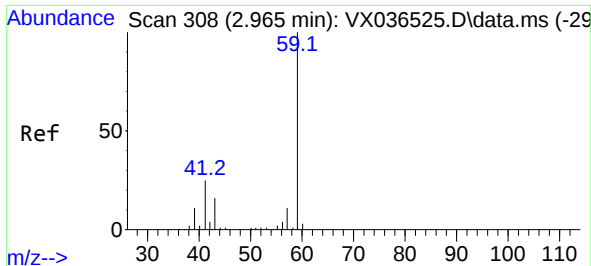
Tgt Ion: 76 Resp: 717
Ion Ratio Lower Upper
76 100
78 0.0 8.0 12.0#



#18
Methylene Chloride
Concen: 0.596 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

Tgt Ion: 84 Resp: 993
Ion Ratio Lower Upper
84 100
49 108.1 95.4 143.0
51 30.3 28.3 42.5
86 48.3 49.0 73.6#

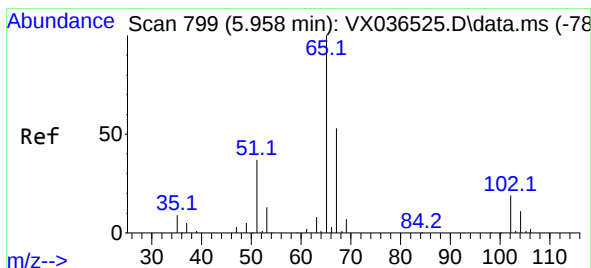
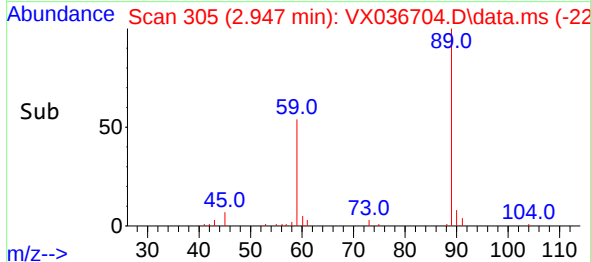
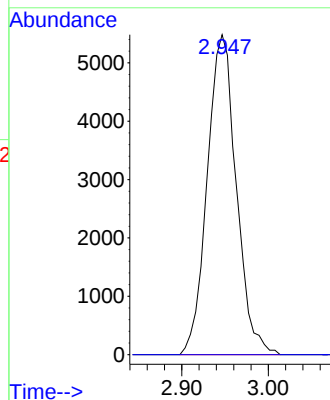
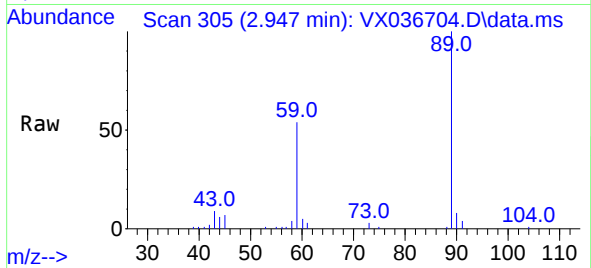




#23
tert-Butyl Alcohol
Concen: 30.185 ug/l
RT: 2.947 min Scan# 30
Delta R.T. -0.018 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

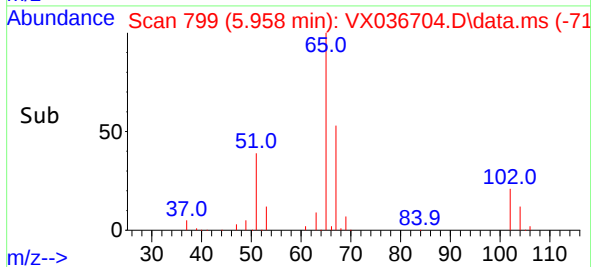
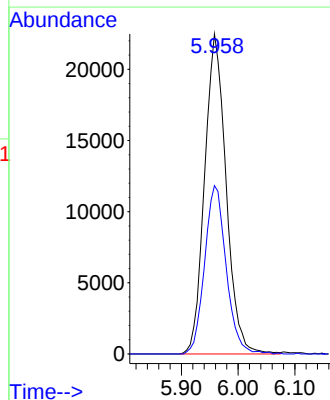
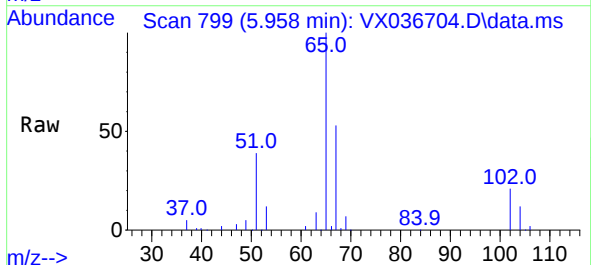
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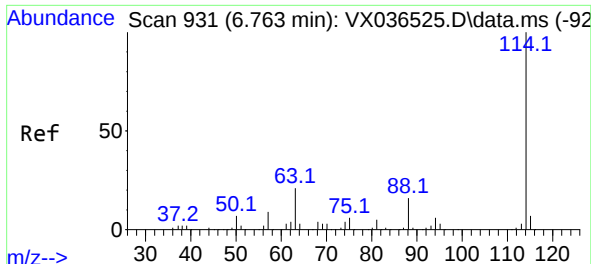
Tgt Ion: 59 Resp: 12778
Ion Ratio Lower Upper
59 100
52 0.0 142.6 213.8#



#27
1,2-Dichloroethane-d4
Concen: 30.236 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

Tgt Ion: 65 Resp: 59332
Ion Ratio Lower Upper
65 100
67 52.2 42.1 63.1

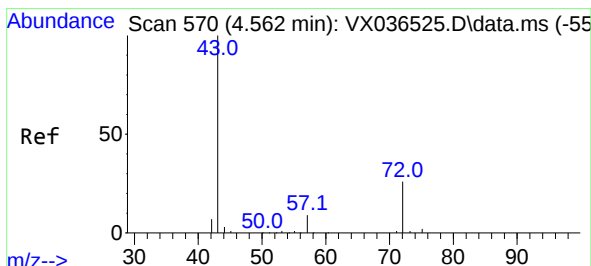
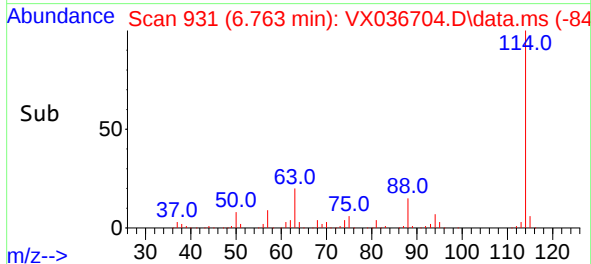
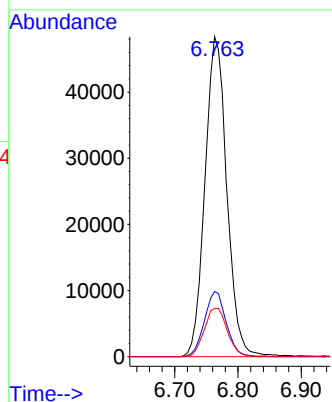
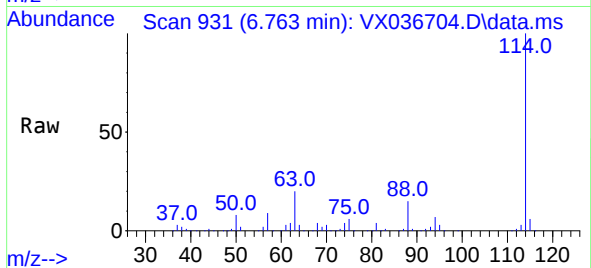




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.763 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

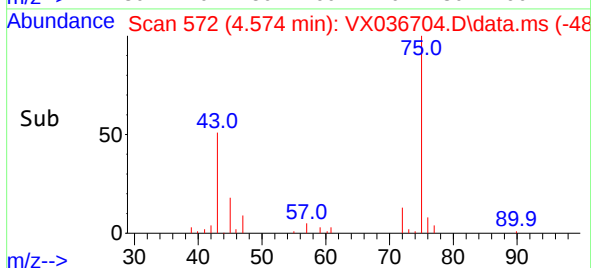
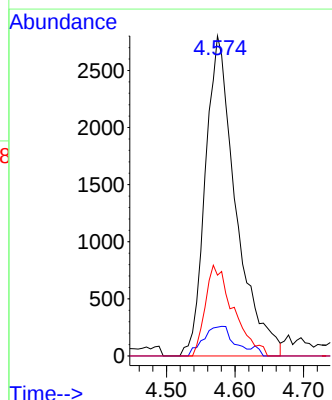
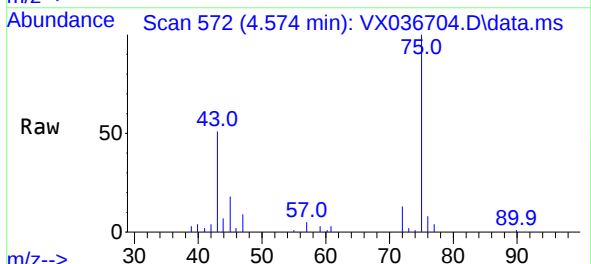
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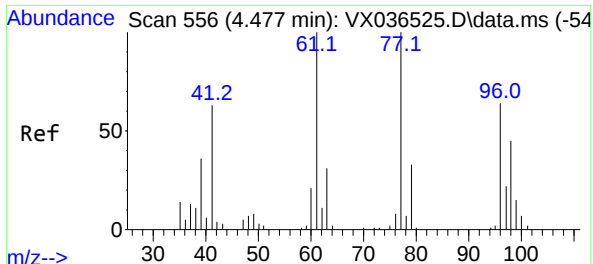
Tgt Ion:114 Resp: 116253
Ion Ratio Lower Upper
114 100
63 20.2 16.6 24.8
88 16.0 12.9 19.3



#30
2-Butanone
Concen: 7.841 ug/l
RT: 4.574 min Scan# 572
Delta R.T. 0.012 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

Tgt Ion: 43 Resp: 8655
Ion Ratio Lower Upper
43 100
57 9.3 6.4 9.6
72 25.5 21.6 32.4

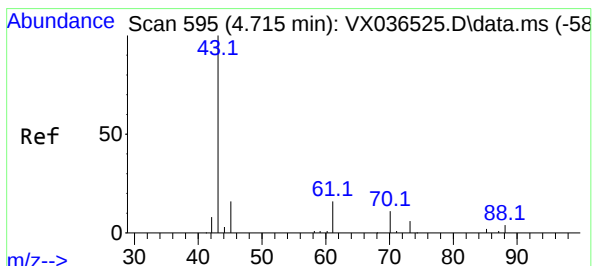
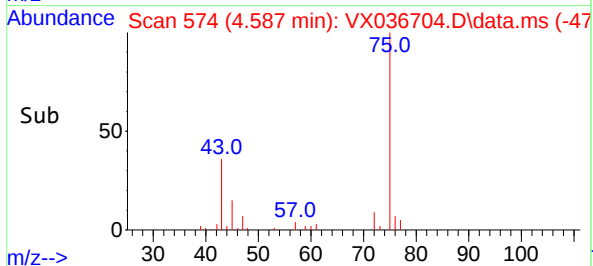
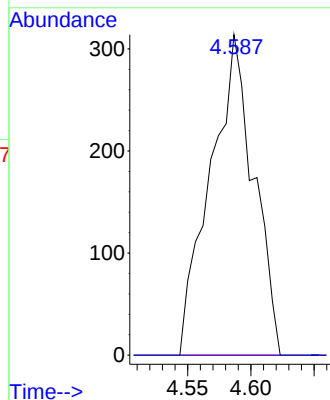
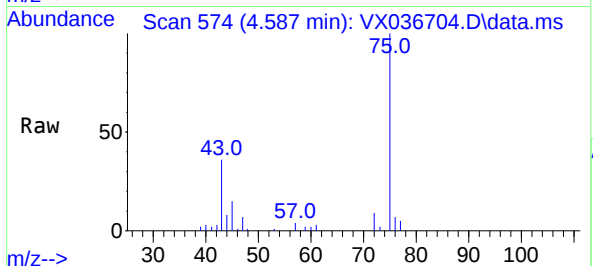




#31
2,2-Dichloropropane
Concen: 0.390 ug/l
RT: 4.587 min Scan# 51
Delta R.T. 0.110 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

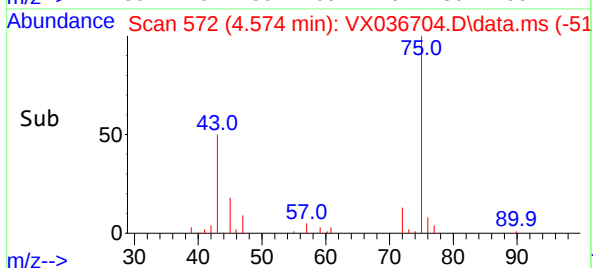
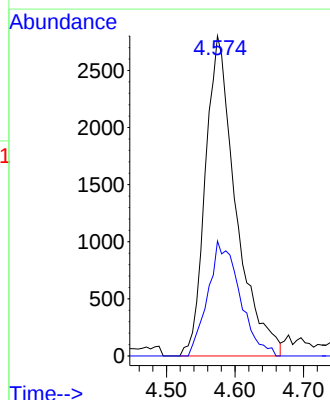
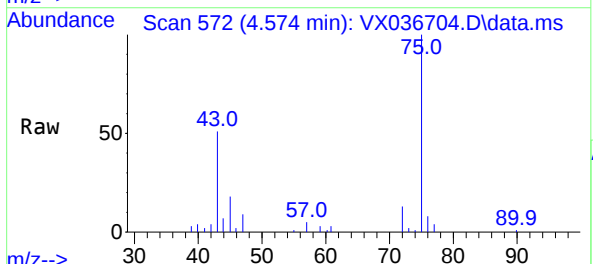
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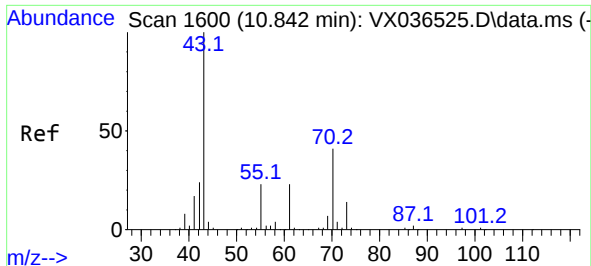
Tgt Ion: 77 Resp: 749
Ion Ratio Lower Upper
77 100
97 0.0 18.6 27.8#



#43
Ethyl Acetate
Concen: 4.028 ug/l
RT: 4.574 min Scan# 572
Delta R.T. -0.140 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

Tgt Ion: 43 Resp: 8655
Ion Ratio Lower Upper
43 100
45 17.9 12.6 18.8

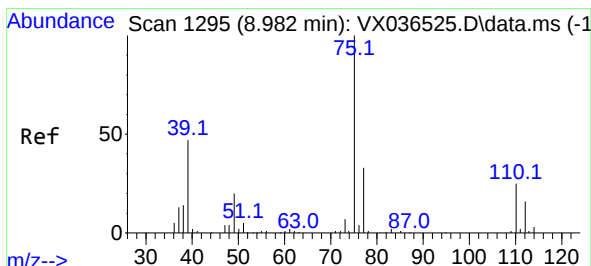
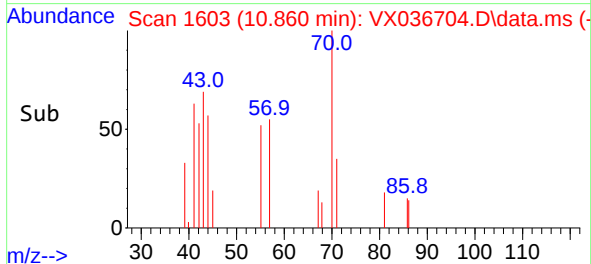
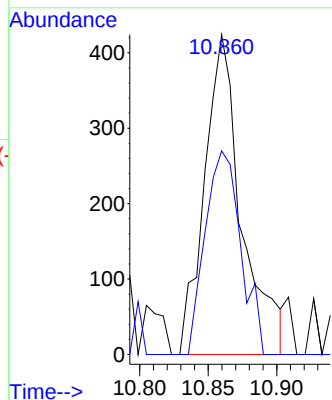
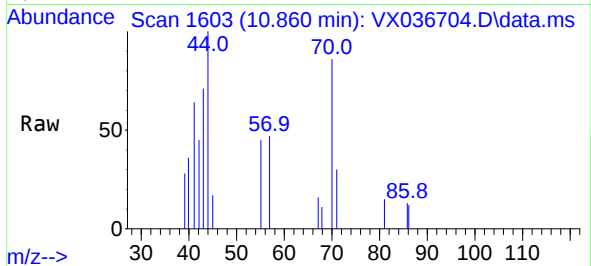




#47
n-amy1 Acetate
Concen: 0.275 ug/l
RT: 10.860 min Scan# 1603
Delta R.T. 0.018 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

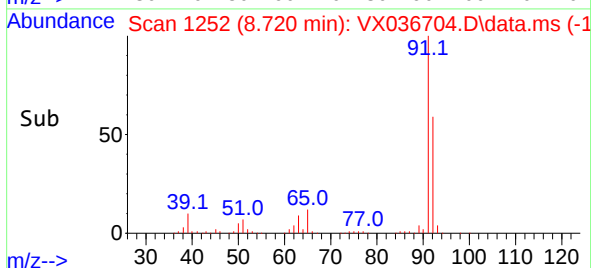
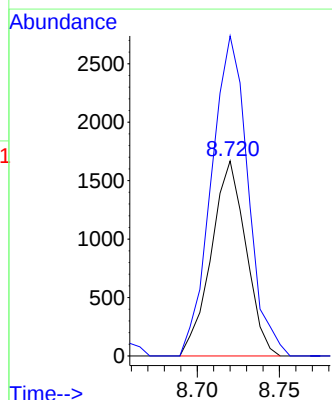
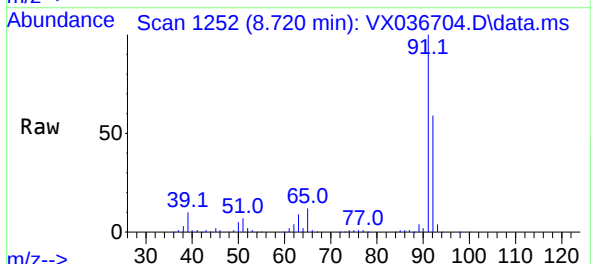
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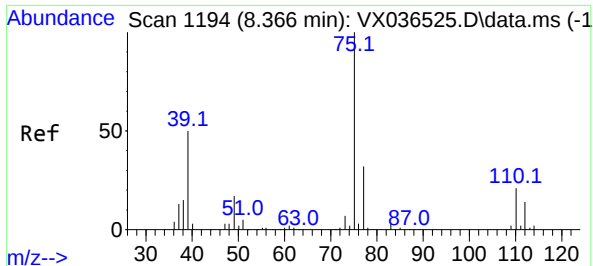
Tgt Ion: 43 Resp: 800
Ion Ratio Lower Upper
43 100
55 61.0 18.6 28.0#



#48
t-1,3-Dichloropropene
Concen: 1.161 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.262 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

Tgt Ion: 75 Resp: 2451
Ion Ratio Lower Upper
75 100
77 164.1 26.8 40.2#





#49

cis-1,3-Dichloropropene

Concen: 1.074 ug/l

RT: 8.720 min Scan# 11

Delta R.T. 0.354 min

Lab File: VX036704.D

Acq: 28 Jul 2023 14:04

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JULY)DL

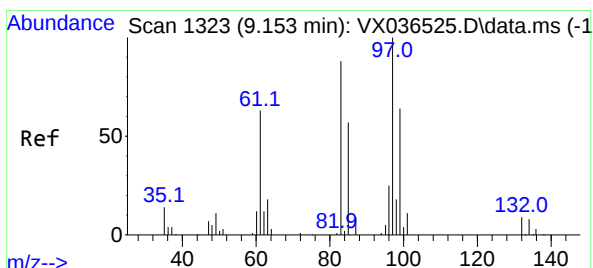
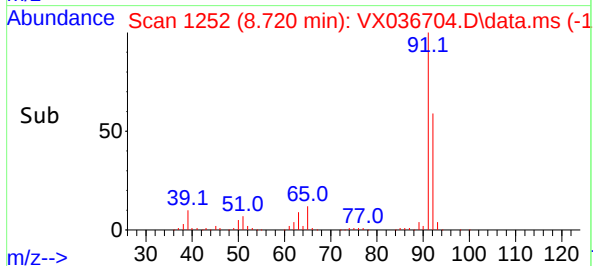
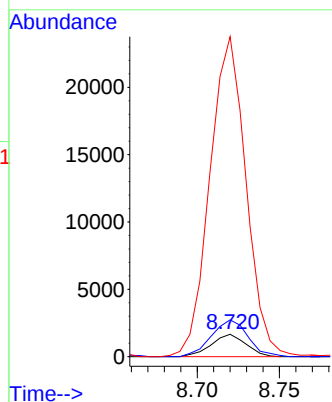
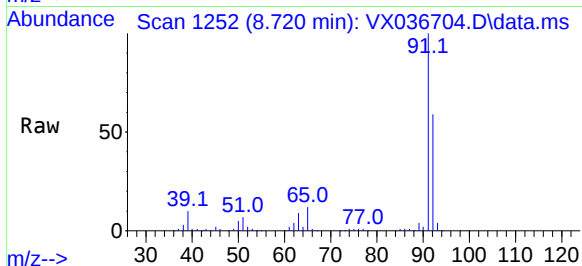
Tgt Ion: 75 Resp: 2451

Ion Ratio Lower Upper

75 100

77 164.1 25.4 38.2#

39 1399.9 40.2 60.4#



#50

1,1,2-Trichloroethane

Concen: 0.224 ug/l

RT: 8.854 min Scan# 1274

Delta R.T. -0.299 min

Lab File: VX036704.D

Acq: 28 Jul 2023 14:04

Tgt Ion: 97 Resp: 322

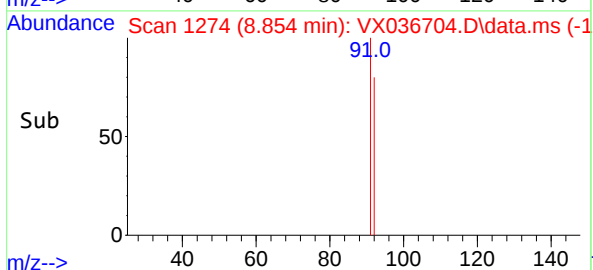
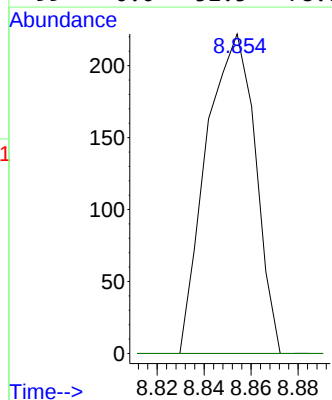
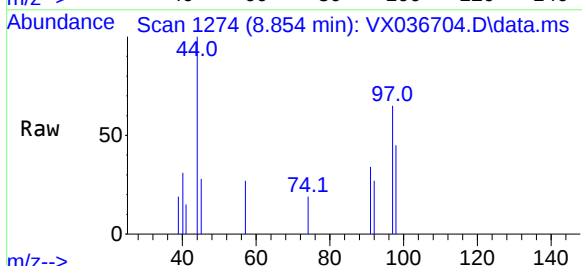
Ion Ratio Lower Upper

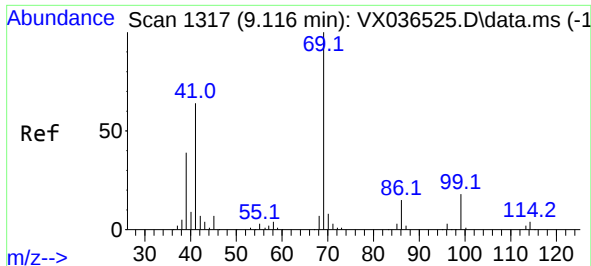
97 100

83 0.0 70.0 105.0#

85 0.0 46.1 69.1#

99 0.0 52.5 78.7#

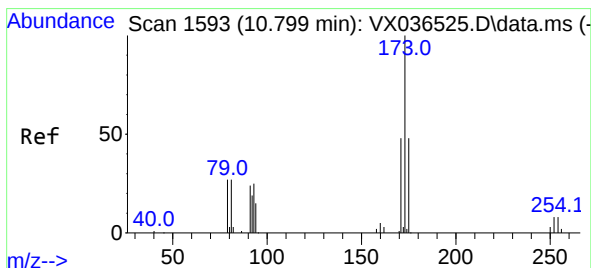
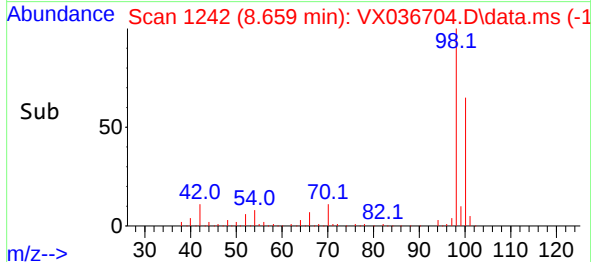
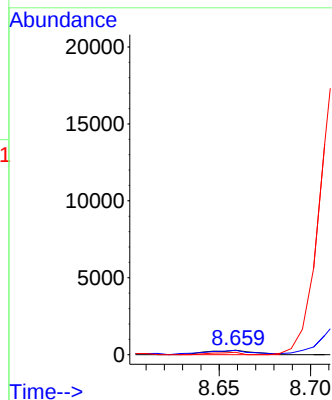
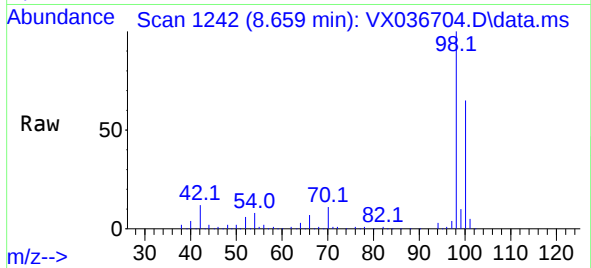




#51
Ethyl methacrylate
Concen: 0.217 ug/l
RT: 8.659 min Scan# 11
Delta R.T. -0.457 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

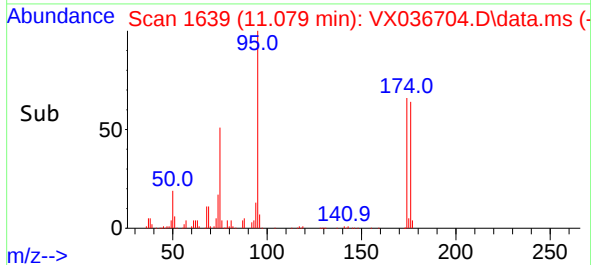
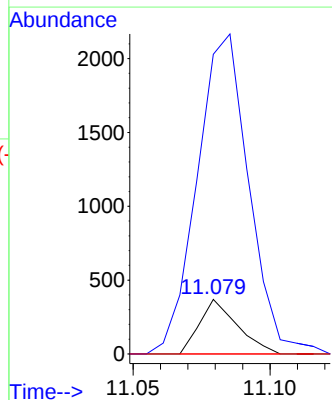
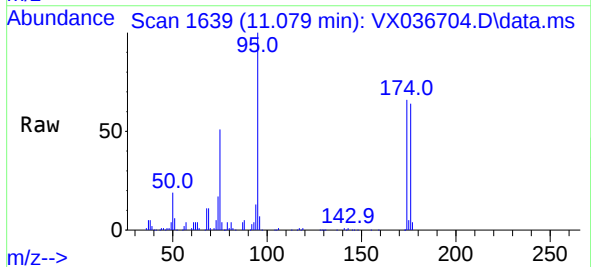
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)DL

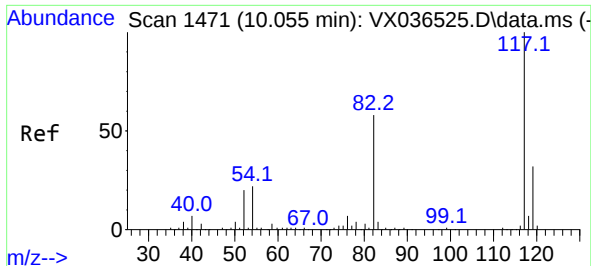
Tgt Ion: 69 Resp: 490
Ion Ratio Lower Upper
69 100
41 75.6 32.0 96.0
39 53.3 19.4 58.4



#56
Bromoform
Concen: 0.352 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.280 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

Tgt Ion: 173 Resp: 356
Ion Ratio Lower Upper
173 100
175 796.9 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: VX036704.D

Acq: 28 Jul 2023 14:04

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JULY)DL

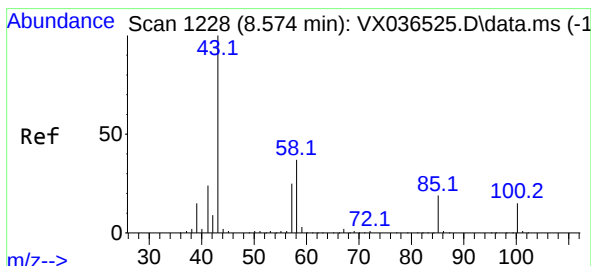
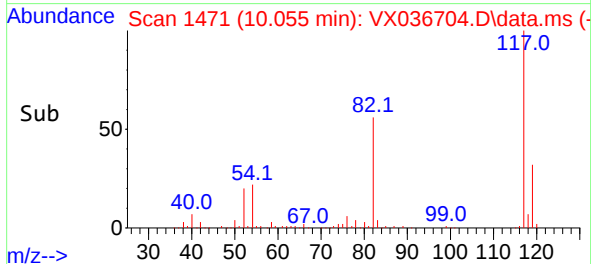
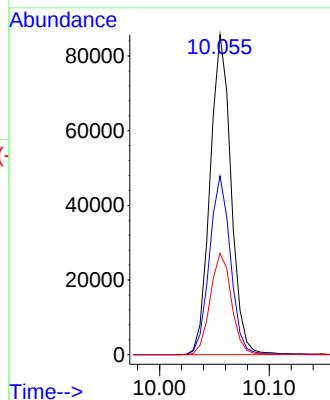
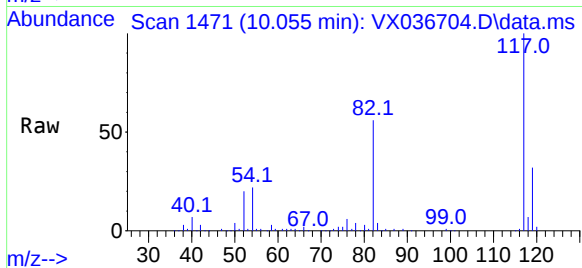
Tgt Ion:117 Resp: 113953

Ion Ratio Lower Upper

117 100

82 56.0 44.7 67.1

119 32.1 25.6 38.4



#58

4-Methyl-2-Pentanone

Concen: 0.775 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX036704.D

Acq: 28 Jul 2023 14:04

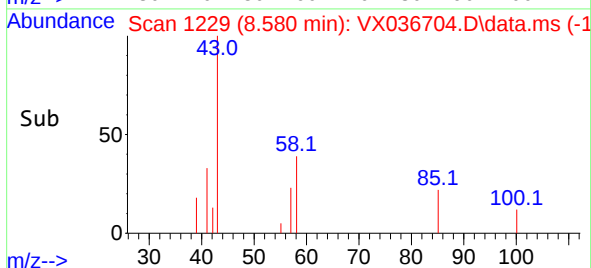
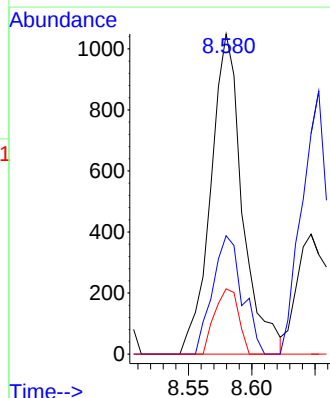
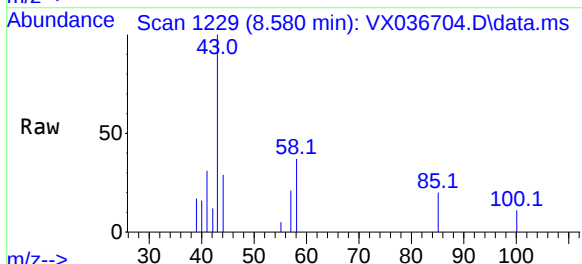
Tgt Ion: 43 Resp: 1827

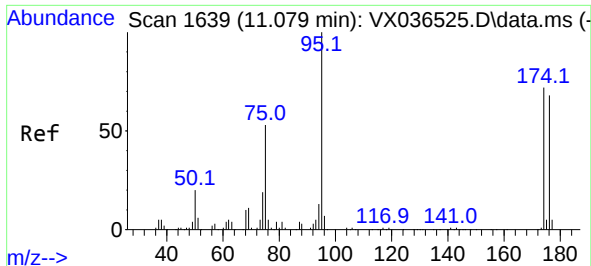
Ion Ratio Lower Upper

43 100

58 34.7 30.9 46.3

85 15.3 14.4 21.6

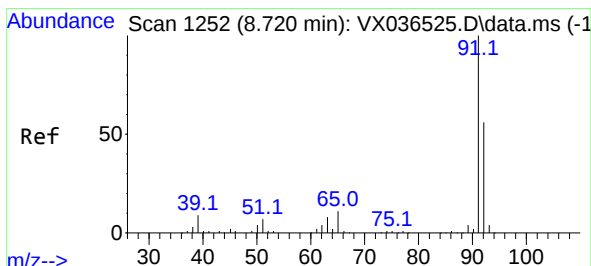
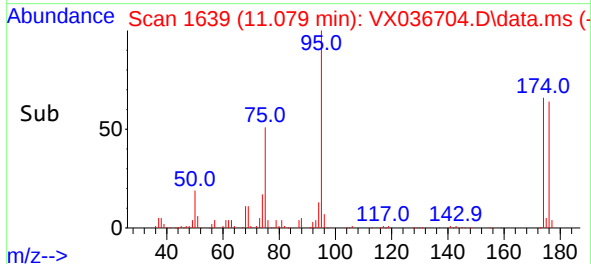
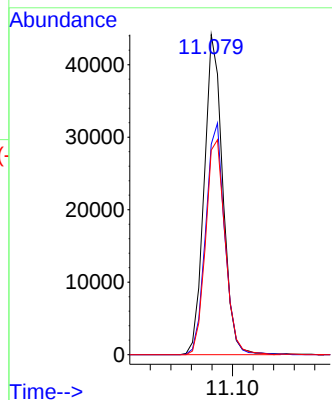
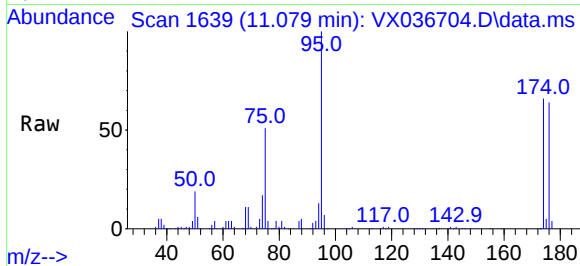




#60
4-Bromofluorobenzene
Concen: 30.021 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

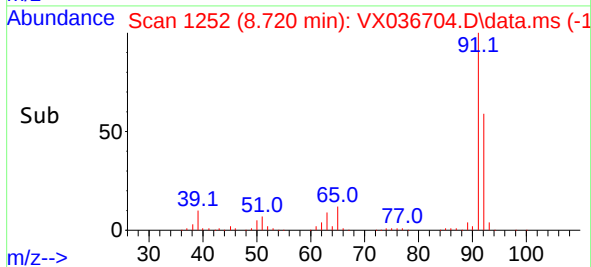
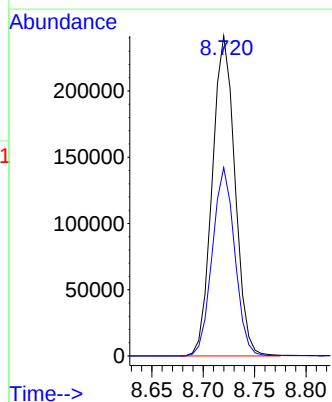
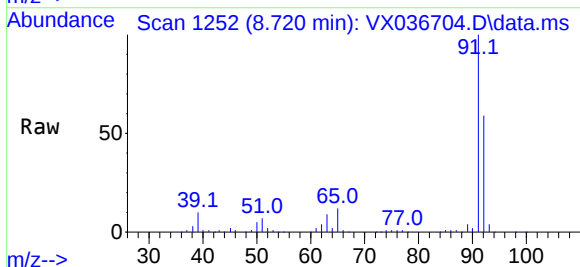
Instrument : MSVOA_X
ClientSampleId : 001-WILLETS-PT-BLVD(JULY)DL

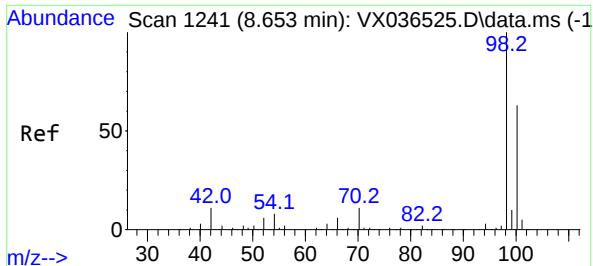
Tgt Ion: 95 Resp: 55492
Ion Ratio Lower Upper
95 100
174 73.9 60.5 90.7
176 70.5 58.2 87.4



#62
Toluene
Concen: 57.996 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

Tgt Ion: 91 Resp: 370805
Ion Ratio Lower Upper
91 100
92 58.2 44.9 67.3

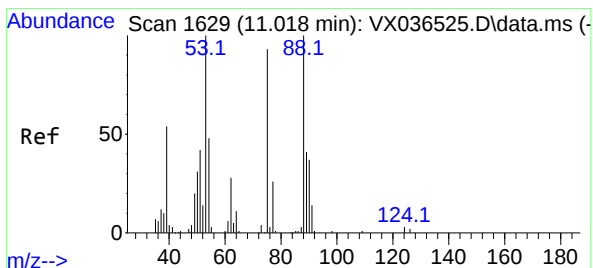
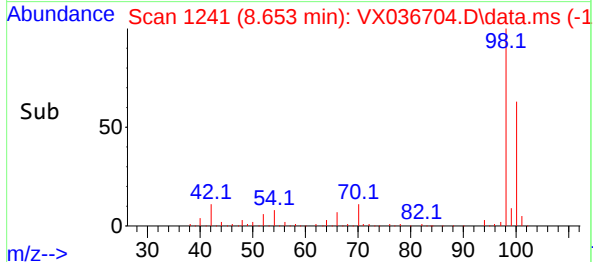
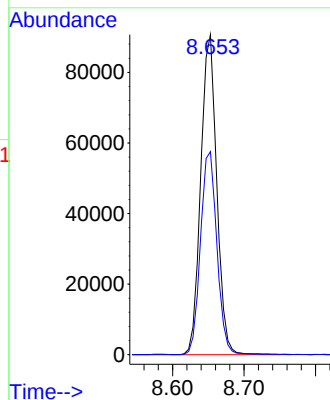
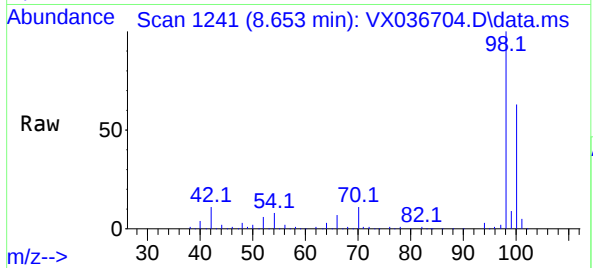




#63
Toluene-d8
Concen: 26.913 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

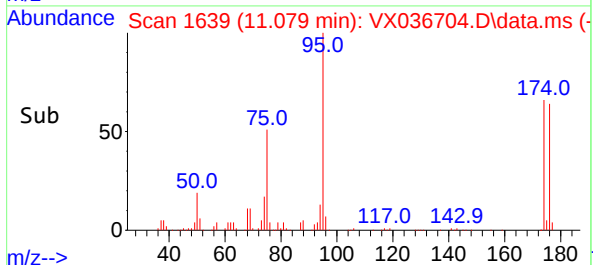
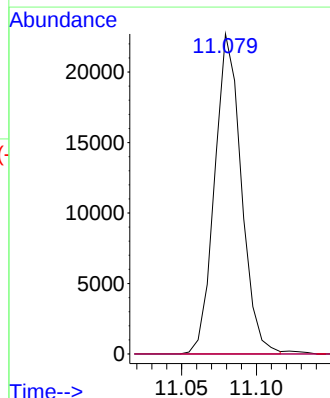
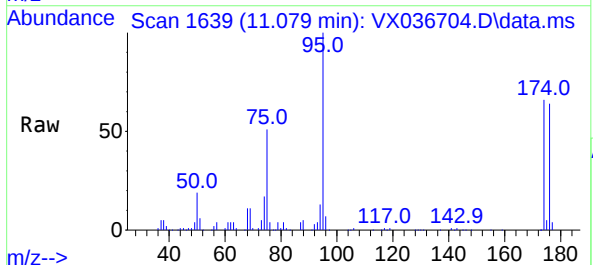
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)DL

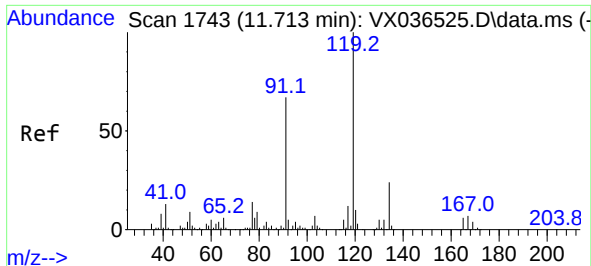
Tgt Ion: 98 Resp: 141123
Ion Ratio Lower Upper
98 100
100 65.0 51.6 77.4



#77
t-1,4-Dichloro-2-butene
Concen: 37.912 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

Tgt Ion: 75 Resp: 28195
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.1 66.1#

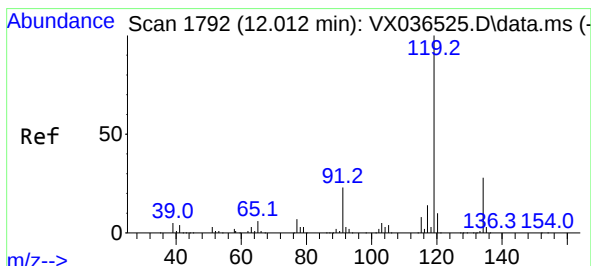
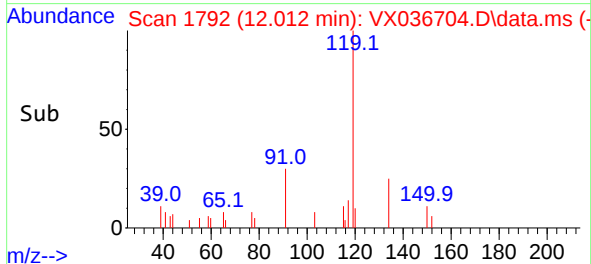
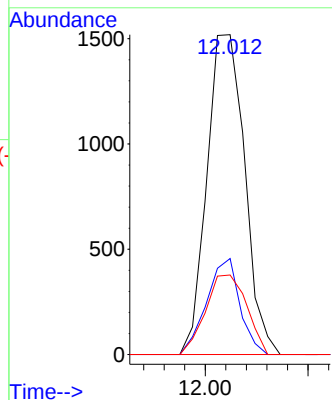
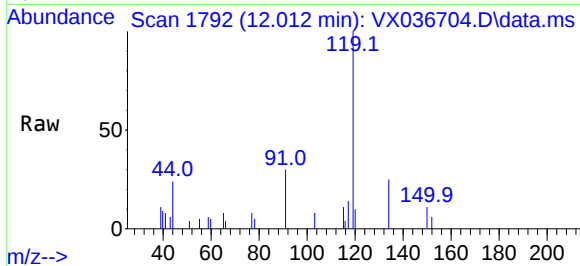




#79
tert-butylbenzene
Concen: 0.355 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.299 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

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

Tgt Ion:	119	Resp:	1941
Ion	Ratio	Lower	Upper
119	100		
91	26.4	0.0	124.4
134	27.1	0.0	47.2



#82
p-Isopropyltoluene
Concen: 0.339 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. -0.000 min
Lab File: VX036704.D
Acq: 28 Jul 2023 14:04

Tgt Ion:	119	Resp:	1941
Ion	Ratio	Lower	Upper
119	100		
134	27.1	0.0	53.2
91	26.4	0.0	49.4

