

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061523\
 Data File : VX036167.D
 Acq On : 15 Jun 2023 14:18
 Operator : JC/MD
 Sample : 03218-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 6 Sample Multiplier: 1

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

Quant Time: Jun 16 07:54:27 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X052323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue May 23 11:36:37 2023
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

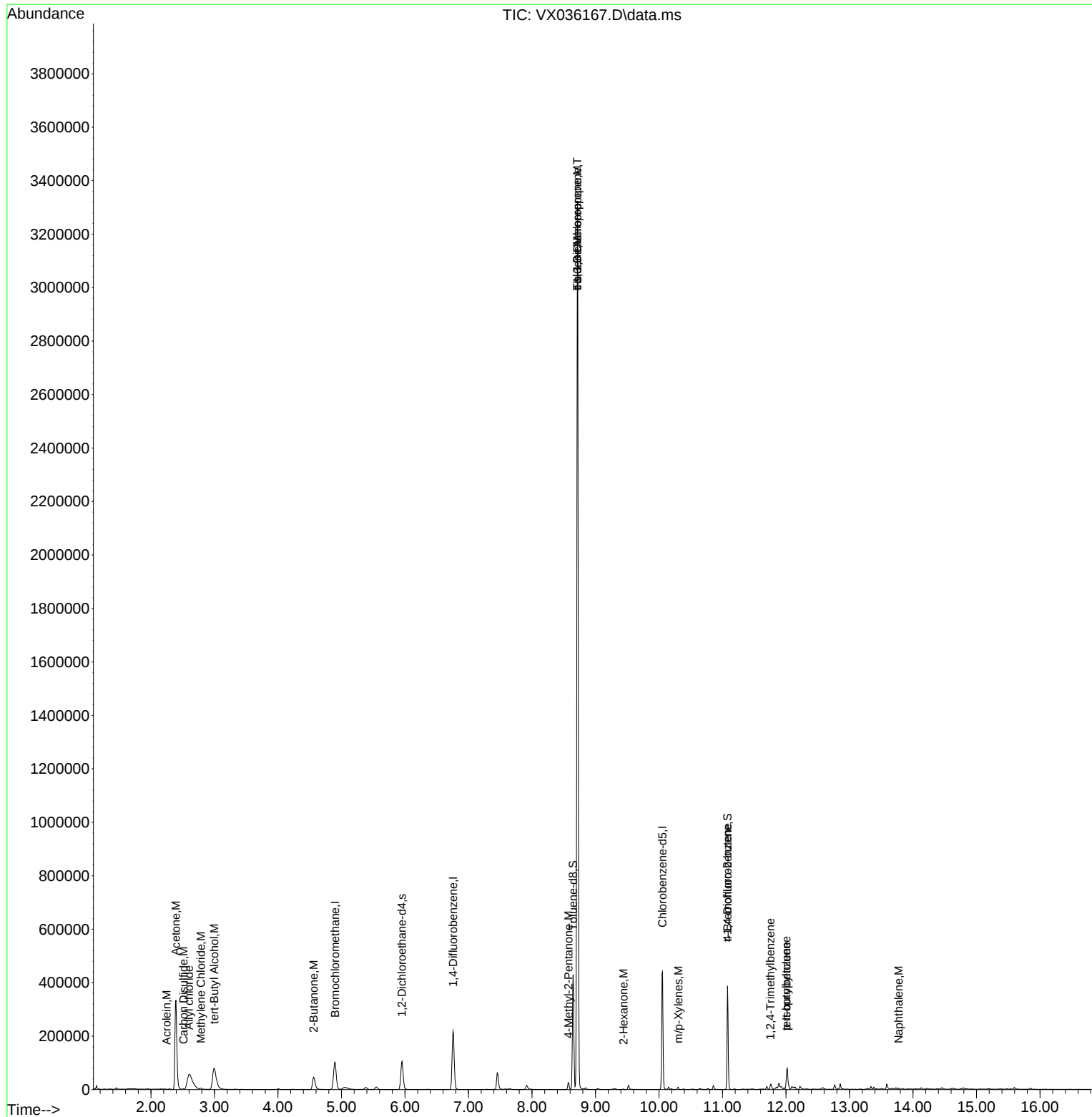
Internal Standards						
1) Bromochloromethane	4.898	128	40309	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.757	114	206103	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	191579	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	105559	31.517	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	105.067%
60) 4-Bromofluorobenzene	11.079	95	100005	31.109	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	103.700%
63) Toluene-d8	8.647	98	241759	28.545	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.167%
Target Compounds						
					Qvalue	
13) Acrolein	2.246	56	989	2.191	ug/l	94
15) Acetone	2.392	58	124727	291.341	ug/l	90
16) Carbon Disulfide	2.514	76	1785	0.407	ug/l #	93
17) Allyl chloride	2.599	41	7914	1.941	ug/l #	55
18) Methylene Chloride	2.788	84	1687	0.641	ug/l	99
23) tert-Butyl Alcohol	2.995	59	170910	327.125	ug/l #	100
30) 2-Butanone	4.562	43	87624	46.639	ug/l	96
48) t-1,3-Dichloropropene	8.714	75	16158	4.901	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	16158	4.441	ug/l #	1
58) 4-Methyl-2-Pentanone	8.574	43	16322	4.386	ug/l	100
59) 2-Hexanone	9.439	43	1236	0.441	ug/l #	86
62) Toluene	8.714	91	2003873	203.112	ug/l	98
67) m/p-Xylenes	10.305	106	1853	0.444	ug/l	86
77) t-1,4-Dichloro-2-butene	11.079	75	54355	54.777	ug/l #	4
79) tert-butylbenzene	12.006	119	17569	2.010	ug/l	69
80) 1,2,4-Trimethylbenzene	11.756	105	3276	0.360	ug/l	73
82) p-Isopropyltoluene	12.006	119	17569	1.913	ug/l	97
91) Naphthalene	13.774	128	2643	0.265	ug/l	98

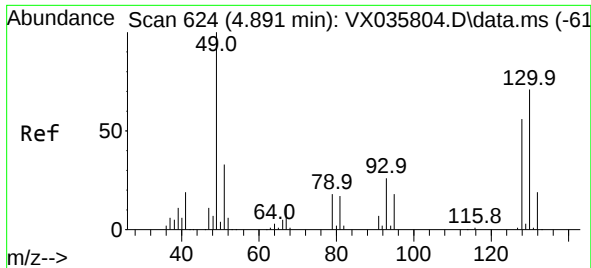
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue May 23 11:36:37 2023
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#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 4.898 min Scan# 61

Delta R.T. 0.007 min

Lab File: VX036167.D

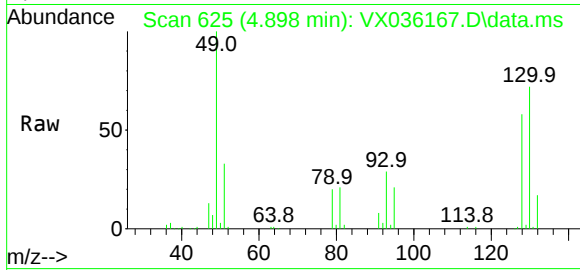
Acq: 15 Jun 2023 14:18

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)



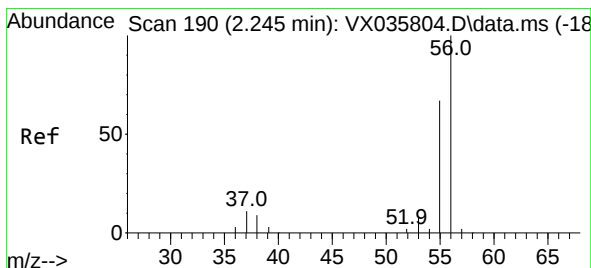
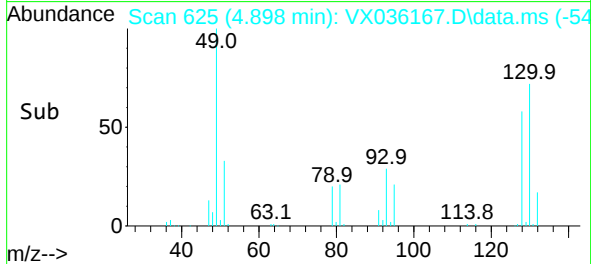
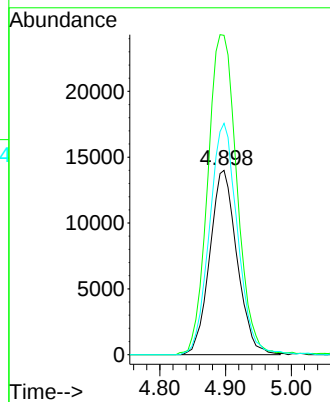
Tgt Ion:128 Resp: 40309

Ion Ratio Lower Upper

128 100

49 185.6 0.0 428.8

130 128.8 0.0 310.8



#13

Acrolein

Concen: 2.191 ug/l

RT: 2.246 min Scan# 190

Delta R.T. 0.000 min

Lab File: VX036167.D

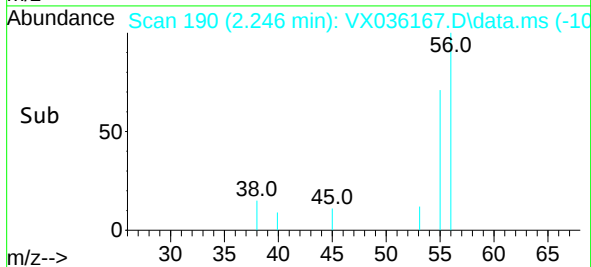
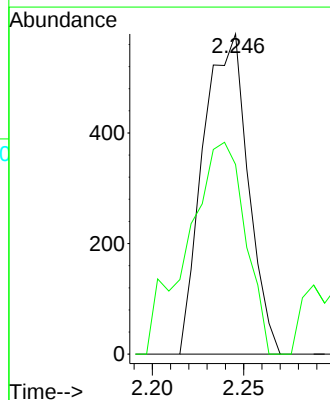
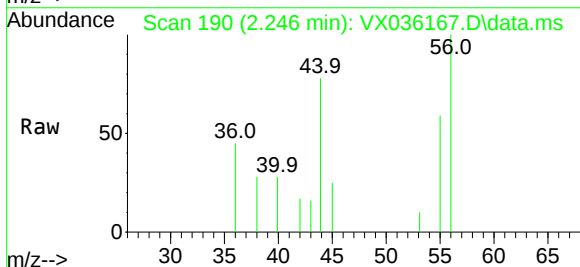
Acq: 15 Jun 2023 14:18

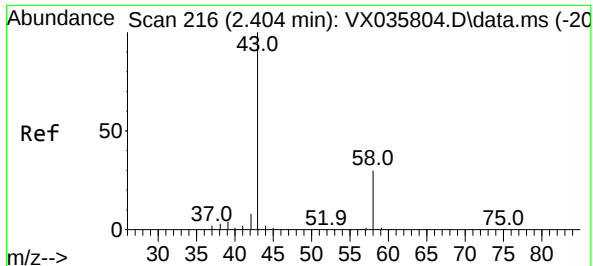
Tgt Ion: 56 Resp: 989

Ion Ratio Lower Upper

56 100

55 76.0 56.6 85.0

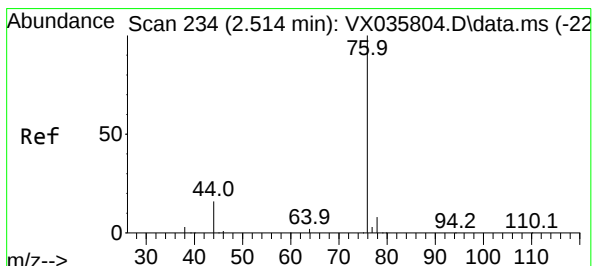
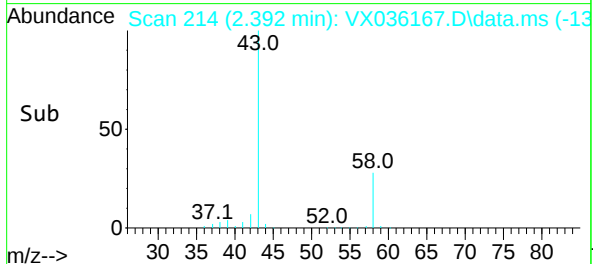
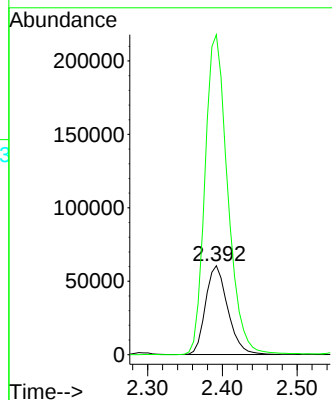
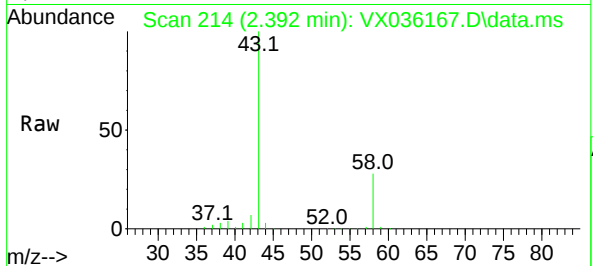




#15
Acetone
Concen: 291.341 ug/l
RT: 2.392 min Scan# 216
Delta R.T. -0.012 min
Lab File: VX036167.D
Acq: 15 Jun 2023 14:18

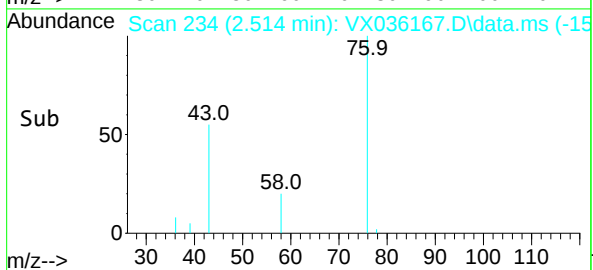
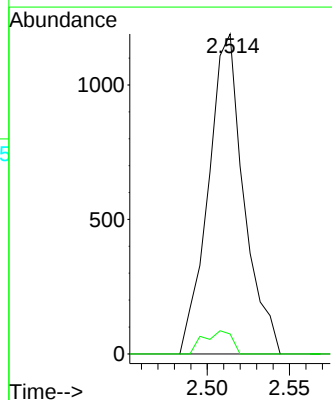
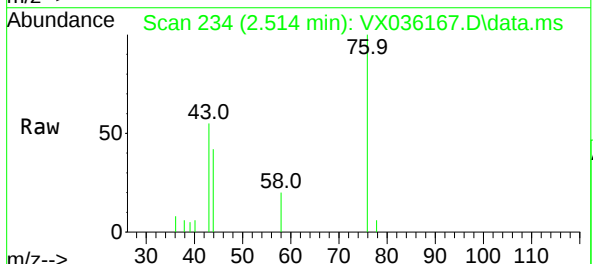
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

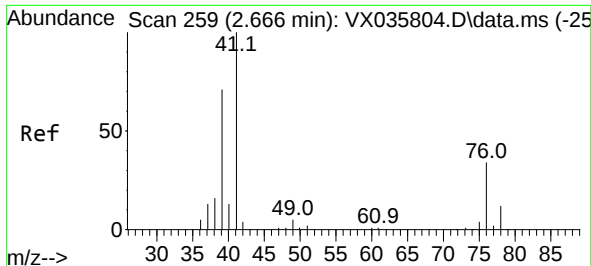
Tgt Ion: 58 Resp: 124727
Ion Ratio Lower Upper
58 100
43 360.2 270.8 406.2



#16
Carbon Disulfide
Concen: 0.407 ug/l
RT: 2.514 min Scan# 234
Delta R.T. 0.000 min
Lab File: VX036167.D
Acq: 15 Jun 2023 14:18

Tgt Ion: 76 Resp: 1785
Ion Ratio Lower Upper
76 100
78 6.2 7.0 10.6#

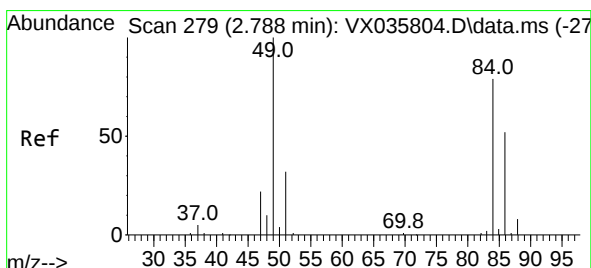
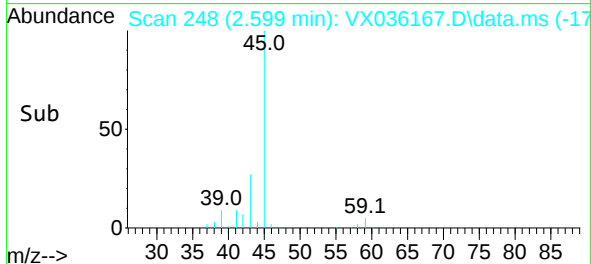
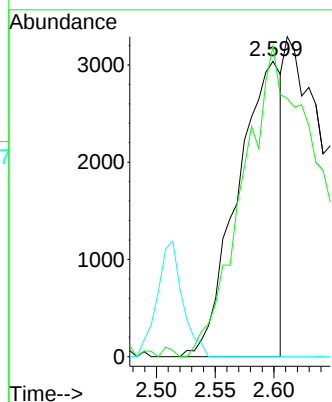
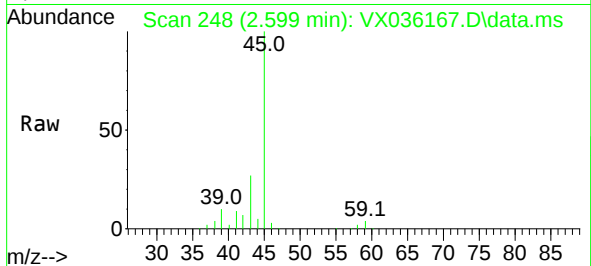




#17
 Allyl chloride
 Concen: 1.941 ug/l
 RT: 2.599 min Scan# 248
 Delta R.T. -0.067 min
 Lab File: VX036167.D
 Acq: 15 Jun 2023 14:18

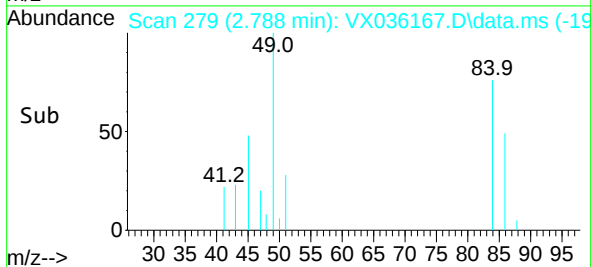
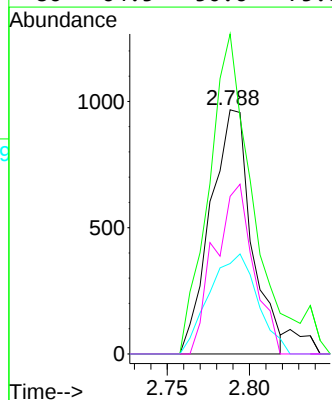
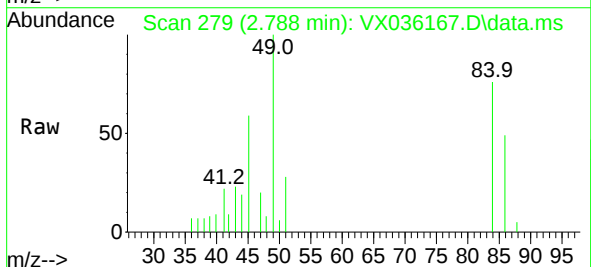
Instrument :
 MSVOA_X
 ClientSampleId :
 001-WILLETS-PT-BLVD(JUNE)

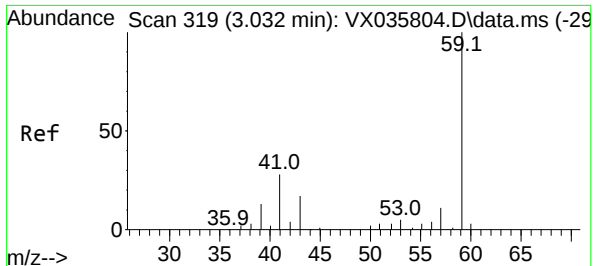
Tgt Ion: 41 Resp: 7914
 Ion Ratio Lower Upper
 41 100
 39 105.2 36.4 109.3
 76 0.0 17.0 51.0#



#18
 Methylene Chloride
 Concen: 0.641 ug/l
 RT: 2.788 min Scan# 279
 Delta R.T. 0.000 min
 Lab File: VX036167.D
 Acq: 15 Jun 2023 14:18

Tgt Ion: 84 Resp: 1687
 Ion Ratio Lower Upper
 84 100
 49 131.0 103.9 155.9
 51 37.0 30.6 45.8
 86 64.5 50.6 75.8

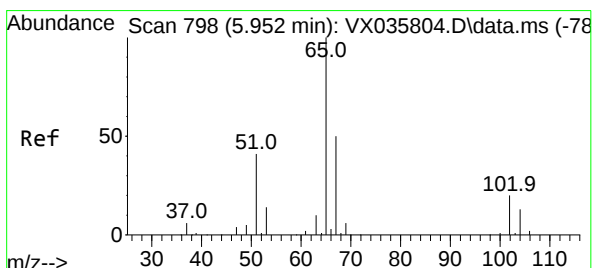
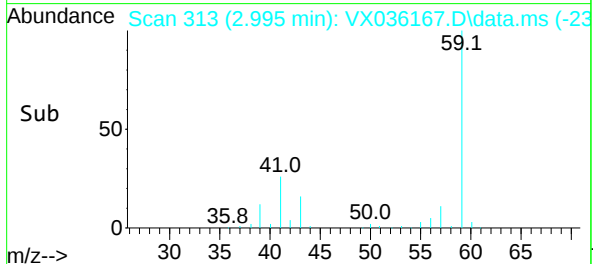
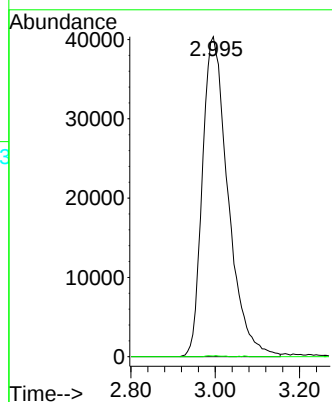
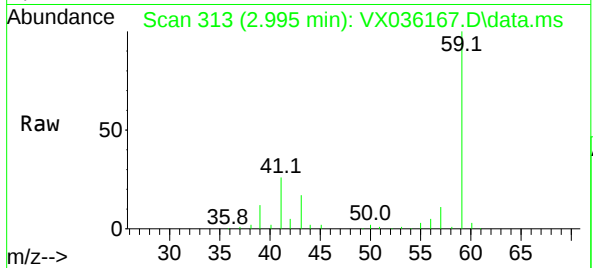




#23
tert-Butyl Alcohol
Concen: 327.125 ug/l
RT: 2.995 min Scan# 319
Delta R.T. -0.036 min
Lab File: VX036167.D
Acq: 15 Jun 2023 14:18

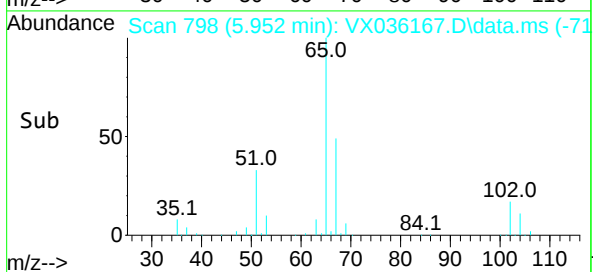
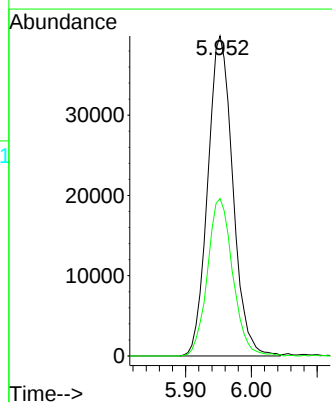
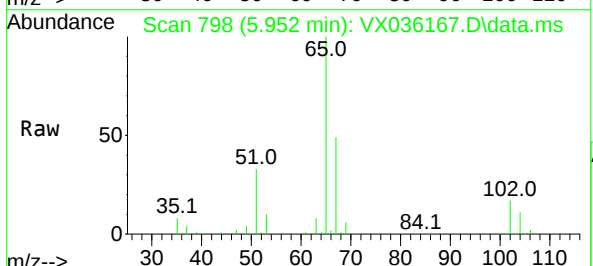
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

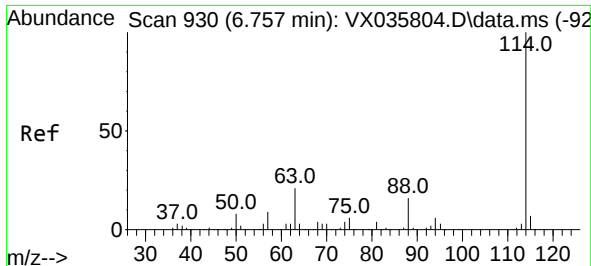
Tgt Ion: 59 Resp: 170910
Ion Ratio Lower Upper
59 100
52 0.1 0.2 0.4#



#27
1,2-Dichloroethane-d4
Concen: 31.517 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX036167.D
Acq: 15 Jun 2023 14:18

Tgt Ion: 65 Resp: 105559
Ion Ratio Lower Upper
65 100
67 49.4 40.9 61.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.757 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX036167.D

Acq: 15 Jun 2023 14:18

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)

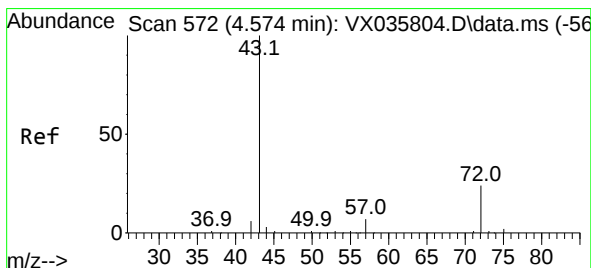
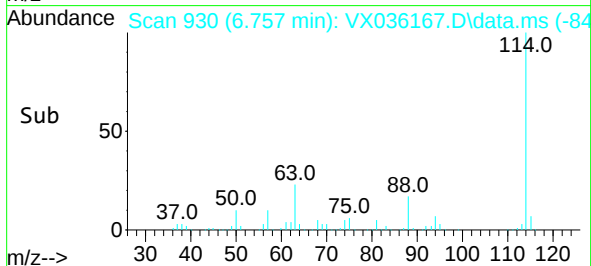
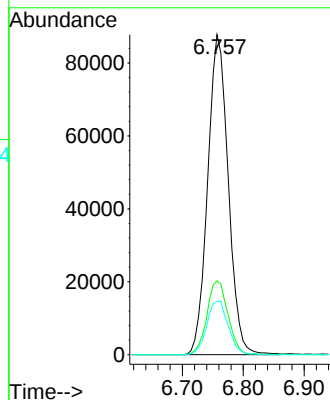
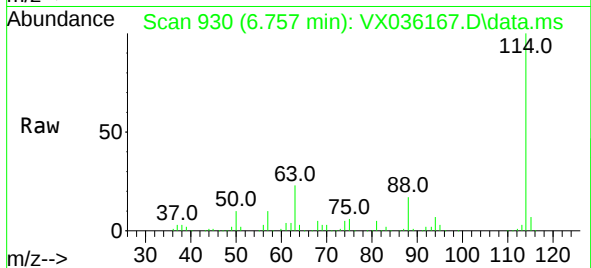
Tgt Ion:114 Resp: 206103

Ion Ratio Lower Upper

114 100

63 23.5 18.0 27.0

88 17.4 13.3 19.9



#30

2-Butanone

Concen: 46.639 ug/l

RT: 4.562 min Scan# 570

Delta R.T. -0.012 min

Lab File: VX036167.D

Acq: 15 Jun 2023 14:18

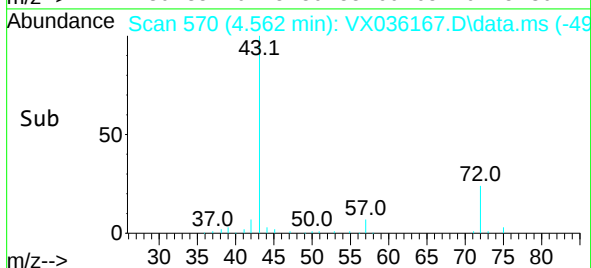
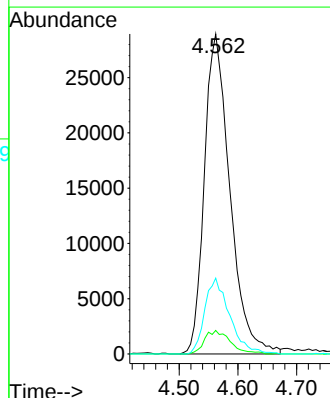
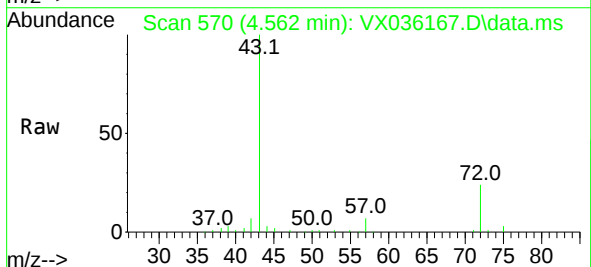
Tgt Ion: 43 Resp: 87624

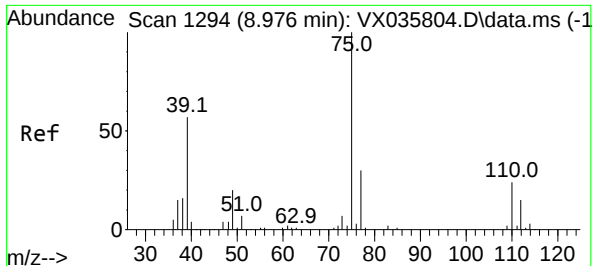
Ion Ratio Lower Upper

43 100

57 7.4 6.3 9.5

72 22.4 19.6 29.4





#48

t-1,3-Dichloropropene

Concen: 4.901 ug/l

RT: 8.714 min Scan# 11

Delta R.T. -0.262 min

Lab File: VX036167.D

Acq: 15 Jun 2023 14:18

Instrument :

MSVOA_X

ClientSampleId :

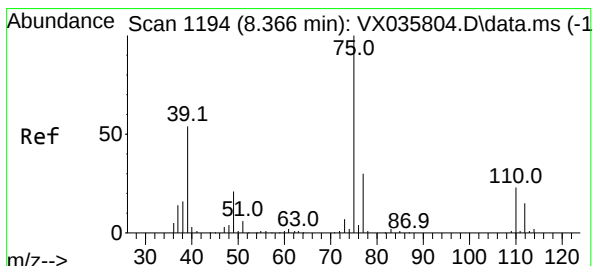
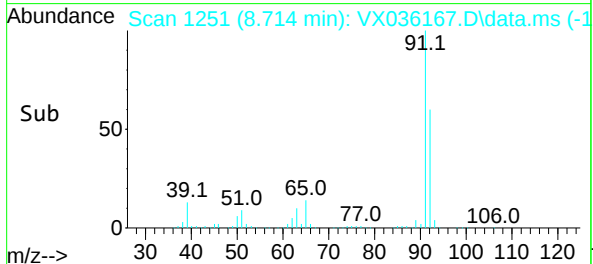
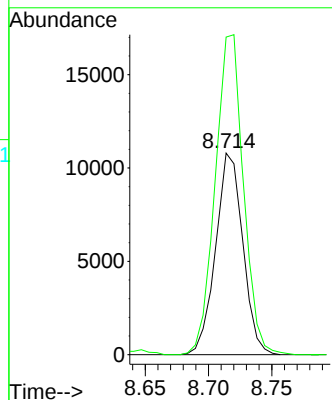
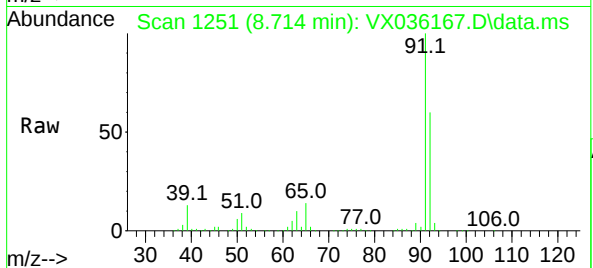
001-WILLETS-PT-BLVD(JUNE)

Tgt Ion: 75 Resp: 16158

Ion Ratio Lower Upper

75 100

77 157.5 25.5 38.3#



#49

cis-1,3-Dichloropropene

Concen: 4.441 ug/l

RT: 8.714 min Scan# 1251

Delta R.T. 0.348 min

Lab File: VX036167.D

Acq: 15 Jun 2023 14:18

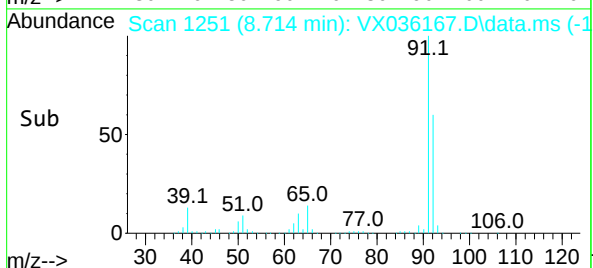
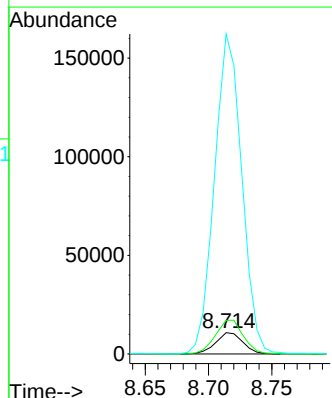
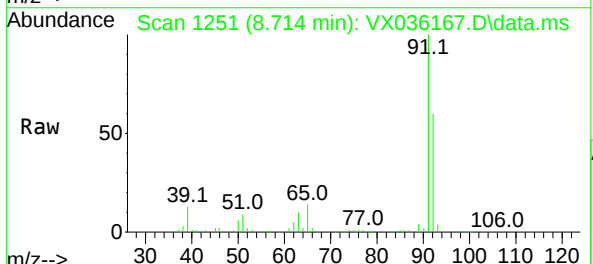
Tgt Ion: 75 Resp: 16158

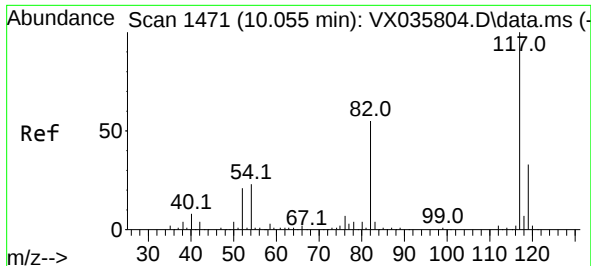
Ion Ratio Lower Upper

75 100

77 157.5 24.6 37.0#

39 1499.9 44.2 66.2#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

Delta R.T. 0.000 min

Lab File: VX036167.D

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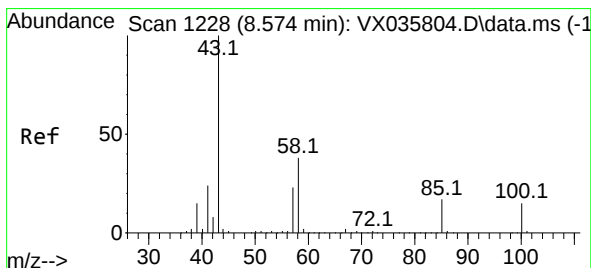
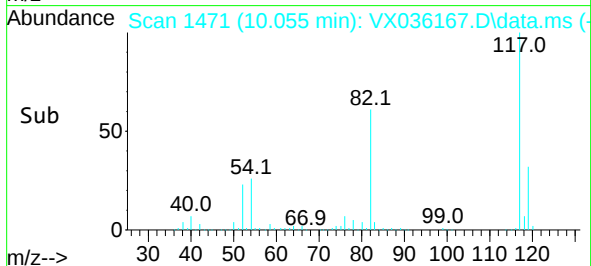
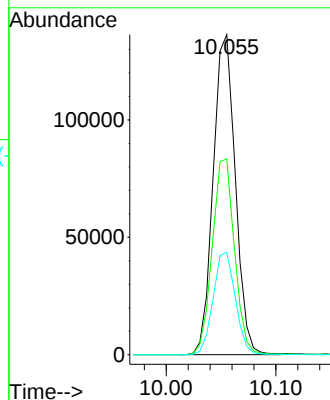
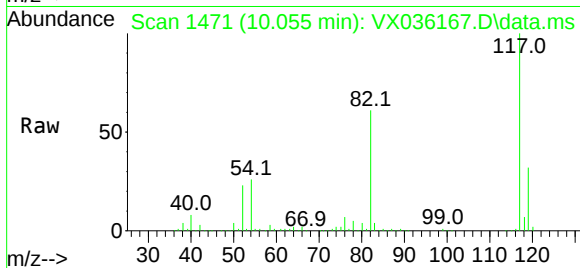
Tgt Ion:117 Resp: 191579

Ion Ratio Lower Upper

117 100

82 61.3 45.8 68.8

119 32.1 25.4 38.0



#58

4-Methyl-2-Pentanone

Concen: 4.386 ug/l

RT: 8.574 min Scan# 1228

Delta R.T. 0.000 min

Lab File: VX036167.D

Acq: 15 Jun 2023 14:18

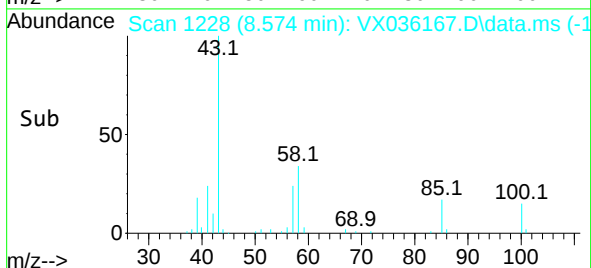
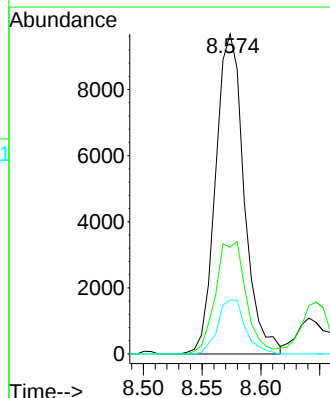
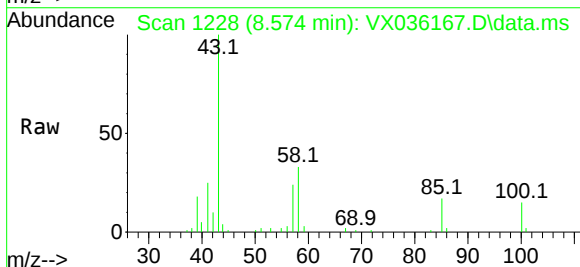
Tgt Ion: 43 Resp: 16322

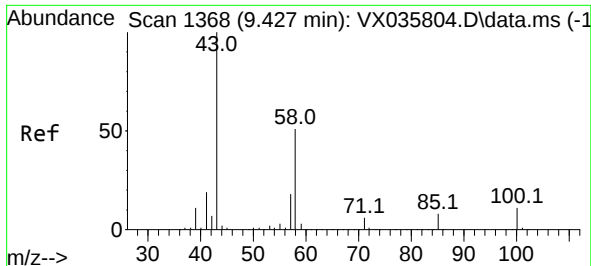
Ion Ratio Lower Upper

43 100

58 37.6 29.9 44.9

85 16.4 13.2 19.8





#59

2-Hexanone

Concen: 0.441 ug/l

RT: 9.439 min Scan# 11

Delta R.T. 0.012 min

Lab File: VX036167.D

Acq: 15 Jun 2023 14:18

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)

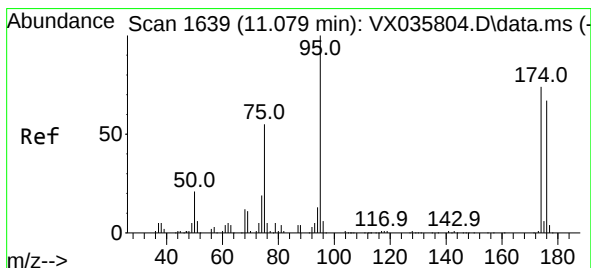
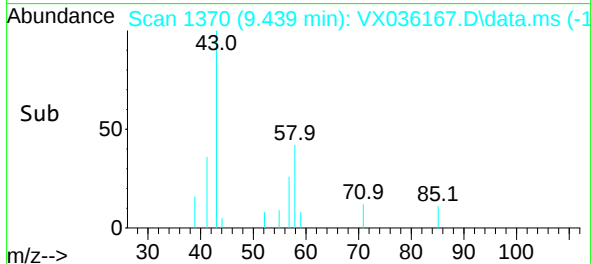
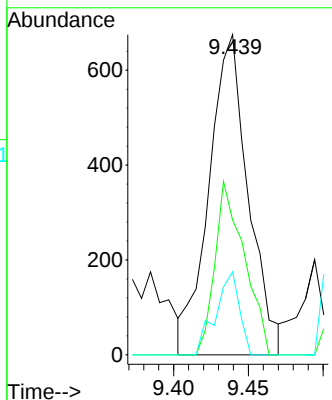
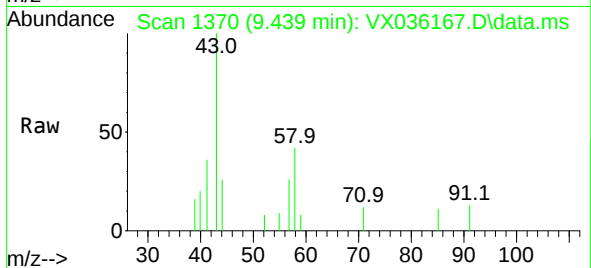
Tgt Ion: 43 Resp: 1236

Ion Ratio Lower Upper

43 100

58 40.5 41.7 62.5#

57 15.5 14.7 22.1



#60

4-Bromofluorobenzene

Concen: 31.109 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX036167.D

Acq: 15 Jun 2023 14:18

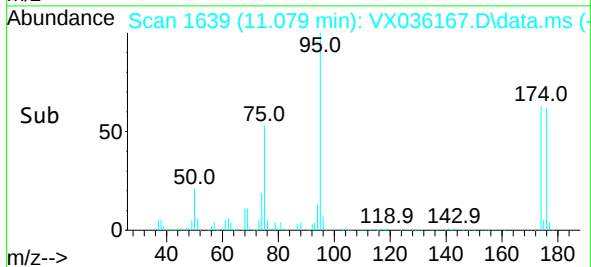
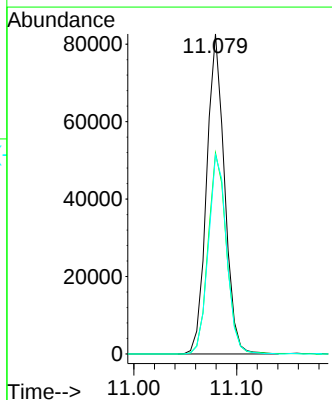
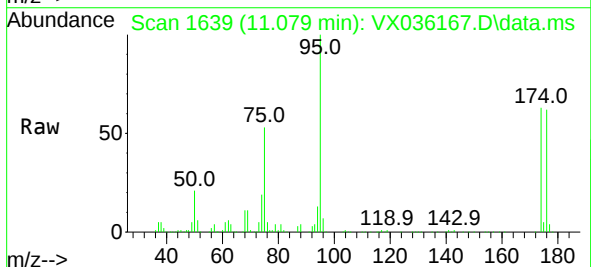
Tgt Ion: 95 Resp: 100005

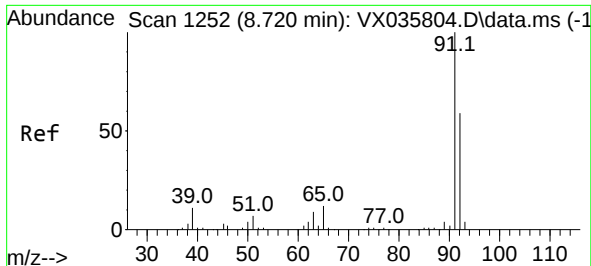
Ion Ratio Lower Upper

95 100

174 64.1 0.2 0.4#

176 63.2 0.2 0.2#





#62

Toluene

Concen: 203.112 ug/l

RT: 8.714 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX036167.D

Acq: 15 Jun 2023 14:18

Instrument :

MSVOA_X

ClientSampleId :

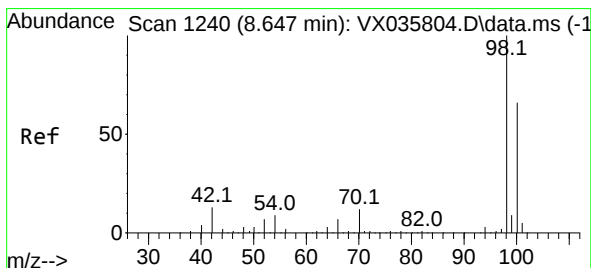
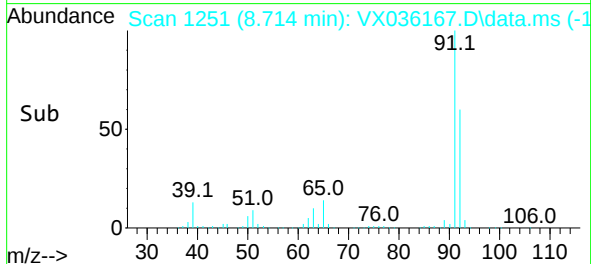
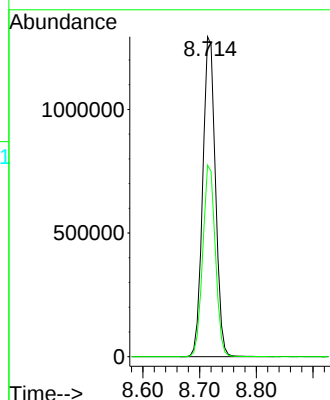
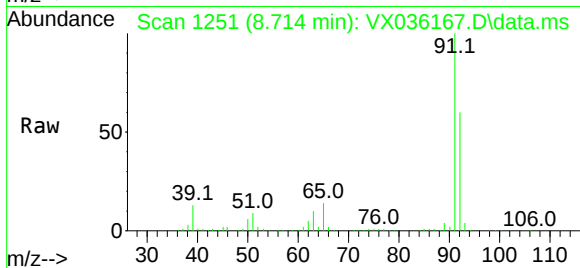
001-WILLETS-PT-BLVD(JUNE)

Tgt Ion: 91 Resp: 2003873

Ion Ratio Lower Upper

91 100

92 59.5 46.5 69.7



#63

Toluene-d8

Concen: 28.545 ug/l

RT: 8.647 min Scan# 1240

Delta R.T. 0.000 min

Lab File: VX036167.D

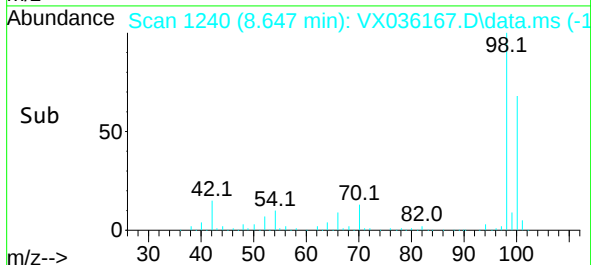
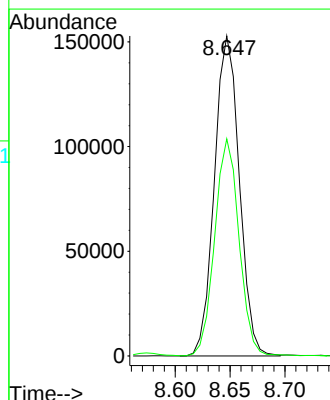
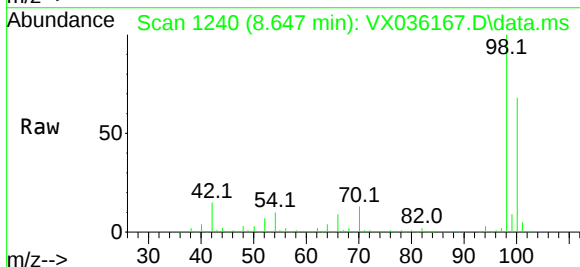
Acq: 15 Jun 2023 14:18

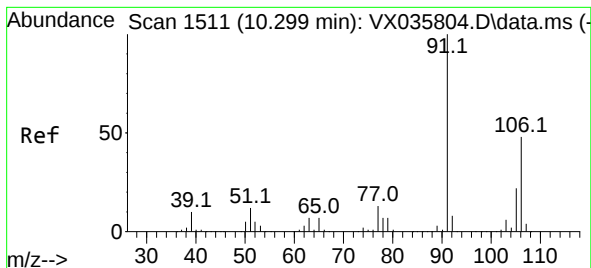
Tgt Ion: 98 Resp: 241759

Ion Ratio Lower Upper

98 100

100 66.3 52.1 78.1

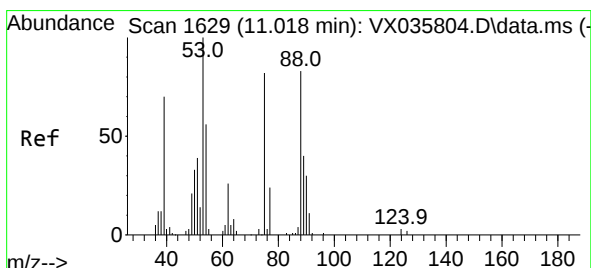
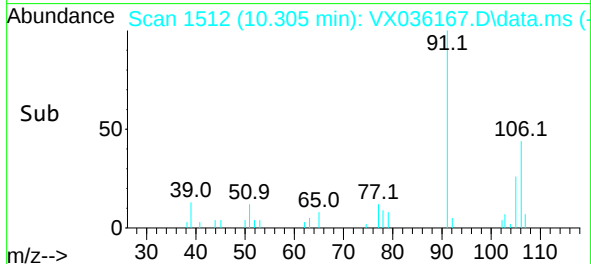
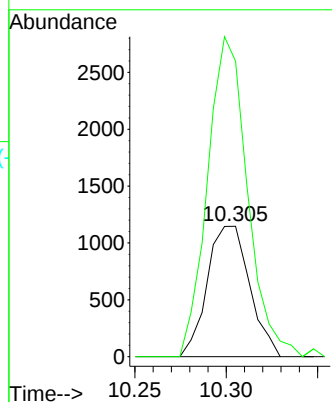
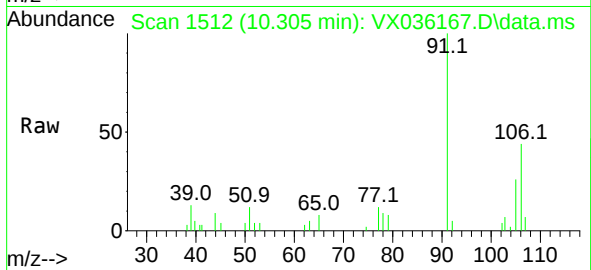




#67
m/p-Xylenes
Concen: 0.444 ug/l
RT: 10.305 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX036167.D
Acq: 15 Jun 2023 14:18

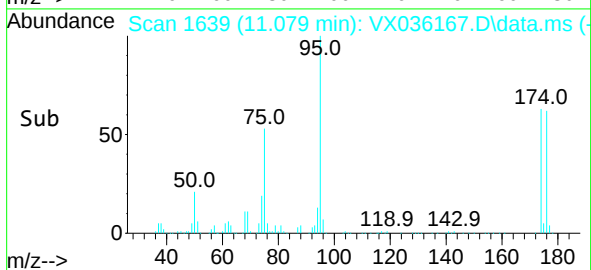
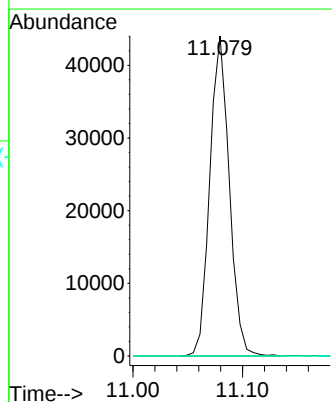
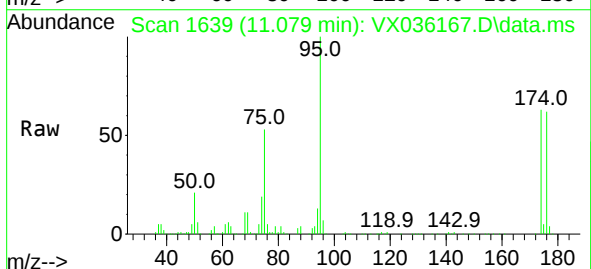
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

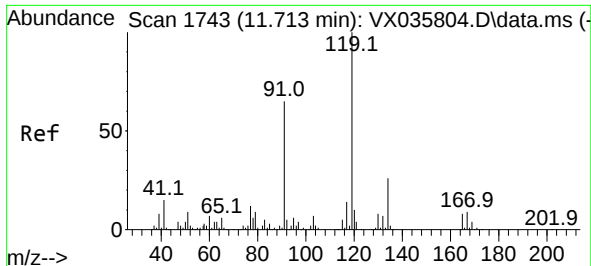
Tgt Ion:106 Resp: 1853
Ion Ratio Lower Upper
106 100
91 230.8 167.4 251.2



#77
t-1,4-Dichloro-2-butene
Concen: 54.777 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX036167.D
Acq: 15 Jun 2023 14:18

Tgt Ion: 75 Resp: 54355
Ion Ratio Lower Upper
75 100
53 0.0 58.2 174.6#
89 0.0 20.6 61.8#

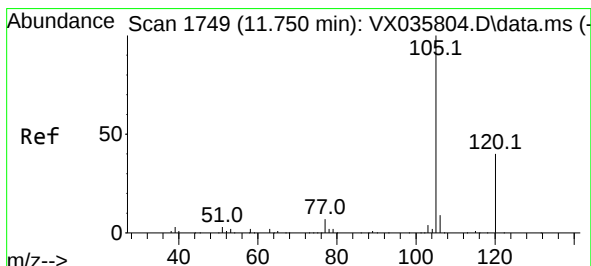
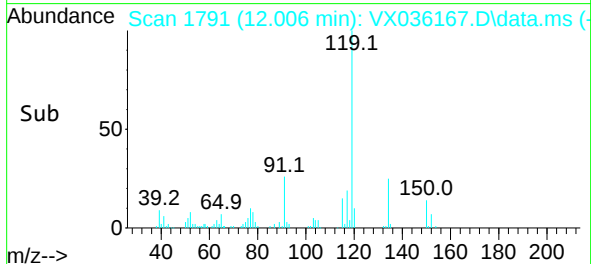
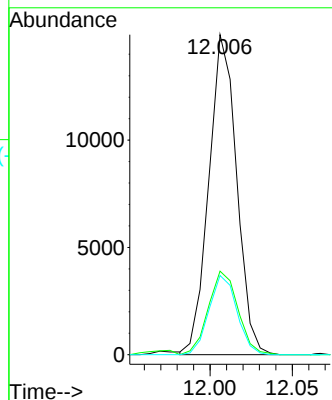
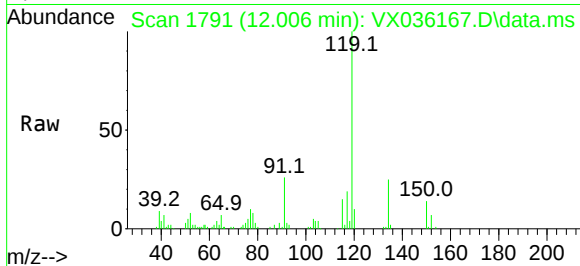




#79
tert-butylbenzene
Concen: 2.010 ug/l
RT: 12.006 min Scan# 11
Delta R.T. 0.293 min
Lab File: VX036167.D
Acq: 15 Jun 2023 14:18

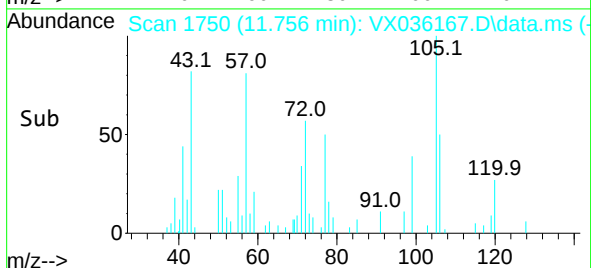
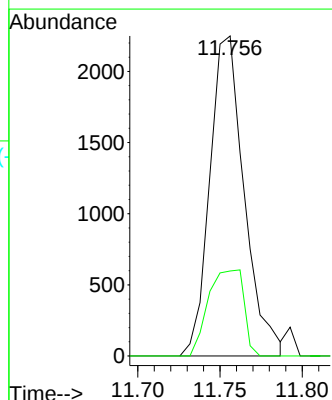
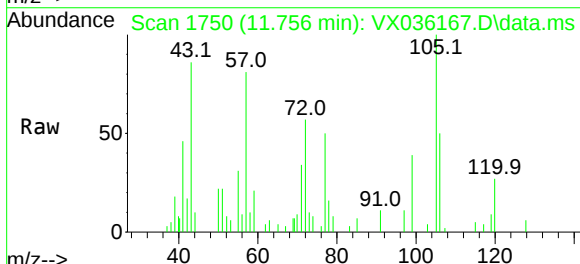
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

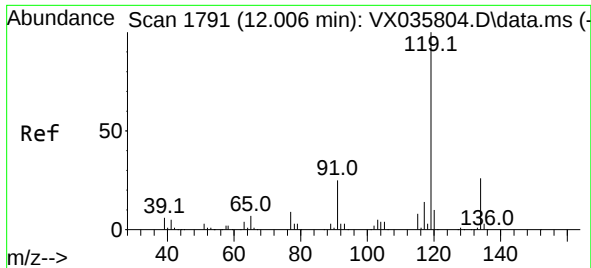
Tgt Ion:119 Resp: 17569
Ion Ratio Lower Upper
119 100
91 27.8 0.0 122.4
134 24.8 0.0 49.2



#80
1,2,4-Trimethylbenzene
Concen: 0.360 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX036167.D
Acq: 15 Jun 2023 14:18

Tgt Ion:105 Resp: 3276
Ion Ratio Lower Upper
105 100
120 27.7 0.0 90.4





#82

p-Isopropyltoluene

Concen: 1.913 ug/l

RT: 12.006 min Scan# 119

Delta R.T. 0.000 min

Lab File: VX036167.D

Acq: 15 Jun 2023 14:18

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)

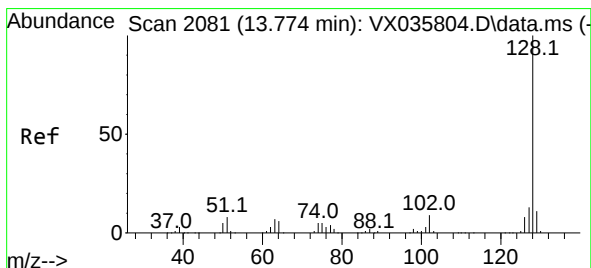
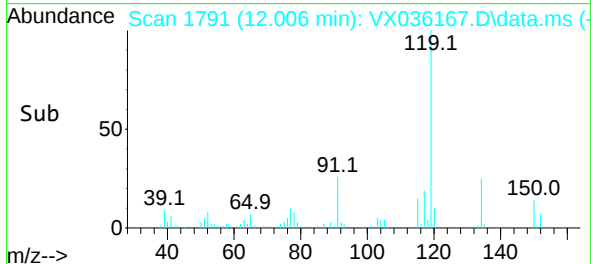
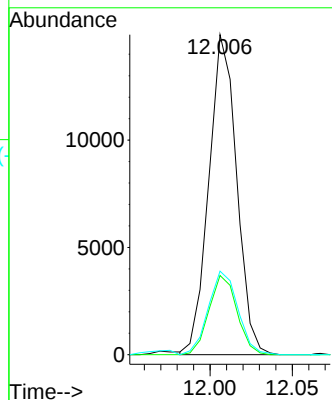
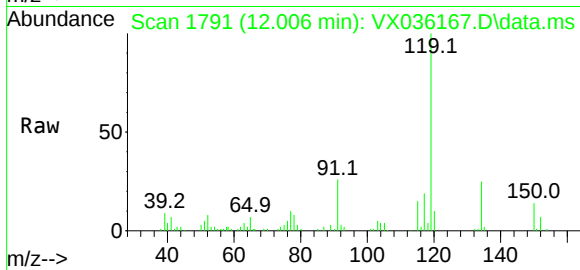
Tgt Ion:119 Resp: 17569

Ion Ratio Lower Upper

119 100

134 24.8 0.0 52.2

91 27.8 0.0 51.0



#91

Naphthalene

Concen: 0.265 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX036167.D

Acq: 15 Jun 2023 14:18

Tgt Ion:128 Resp: 2643

Ion Ratio Lower Upper

128 100

127 13.0 10.3 15.5

129 9.3 8.8 13.2

