

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040623\
 Data File : VX034953.D
 Acq On : 06 Apr 2023 14:11
 Operator : JC/MD
 Sample : 02211-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

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

Quant Time: Apr 07 03:17:57 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Tue Mar 28 09:11:00 2023
 Response via : Initial Calibration

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

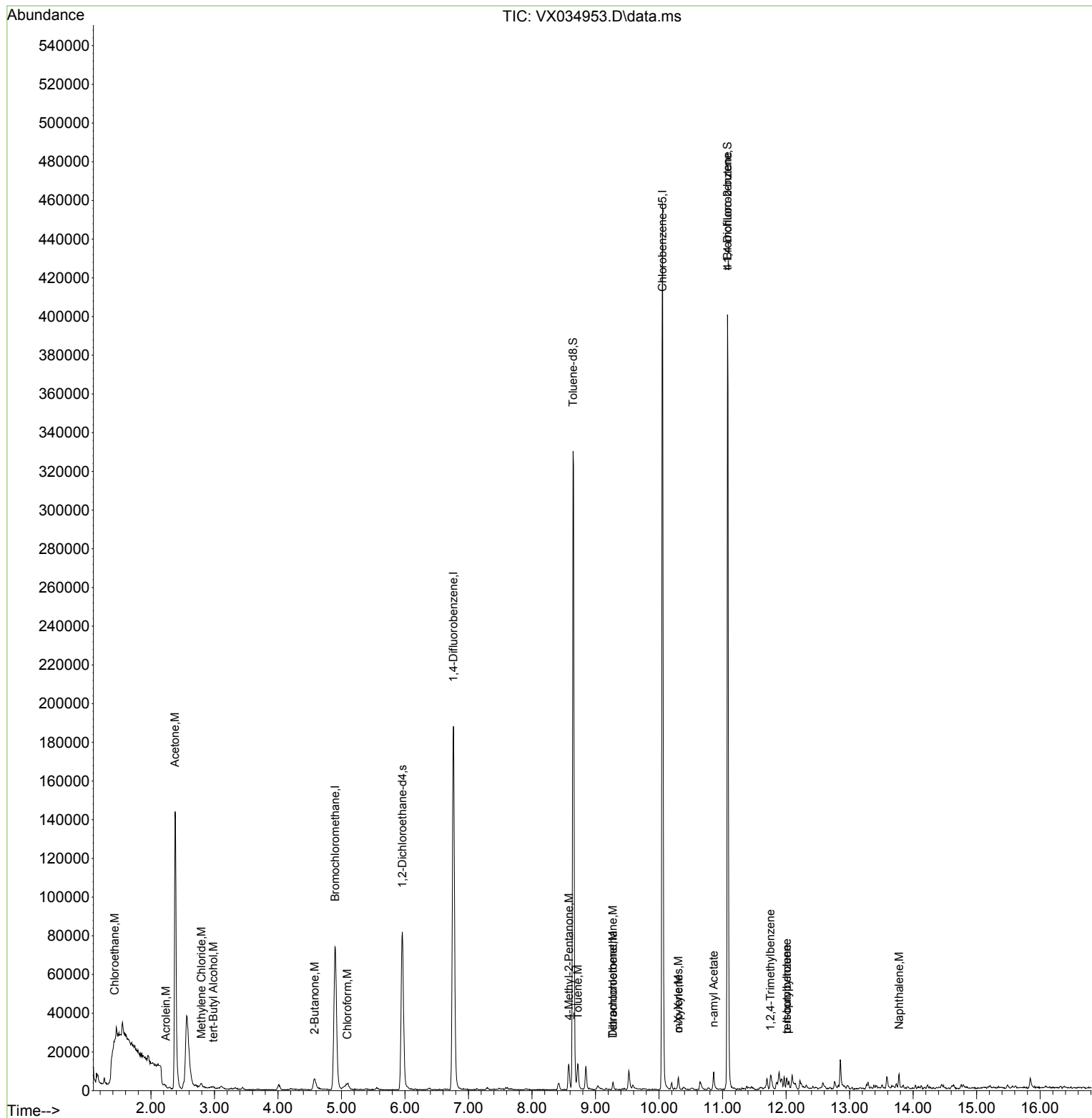
Internal Standards						
1) Bromochloromethane	4.897	128	29528	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	182650	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	195004	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	81325	28.664	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	95.533%		
60) 4-Bromofluorobenzene	11.079	95	108560	27.861	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	92.867%		
63) Toluene-d8	8.646	98	197264	29.767	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	99.233%		
Target Compounds						
					Qvalue	
6) Chloroethane	1.428	64	47136	20.216	ug/l #	50
13) Acrolein	2.233	56	199	0.264	ug/l #	33
15) Acetone	2.379	58	47495	97.882	ug/l	97
18) Methylene Chloride	2.794	84	978	0.283	ug/l #	76
23) tert-Butyl Alcohol	2.983	59	490	0.609	ug/l #	100
25) Chloroform	5.092	83	3337	0.528	ug/l	95
30) 2-Butanone	4.574	43	11582	4.944	ug/l #	85
47) n-amyl Acetate	10.859	43	1789	0.268	ug/l #	10
53) Dibromochloromethane	9.274	129	621	0.207	ug/l #	10
58) 4-Methyl-2-Pentanone	8.579	43	9423	2.108	ug/l #	90
61) Tetrachloroethene	9.274	164	691	0.263	ug/l	93
62) Toluene	8.720	91	8048	0.631	ug/l	95
67) m/p-Xylenes	10.305	106	1479	0.274	ug/l	80
68) o-Xylene	10.305	106	1479	0.277	ug/l	86
77) t-1,4-Dichloro-2-butene	11.079	75	58969	46.400	ug/l #	4
79) tert-butylbenzene	12.012	119	2411	0.217	ug/l	72
80) 1,2,4-Trimethylbenzene	11.756	105	2398	0.207	ug/l	90
82) p-Isopropyltoluene	12.012	119	2411	0.212	ug/l	93
91) Naphthalene	13.780	128	4438	0.341	ug/l	98

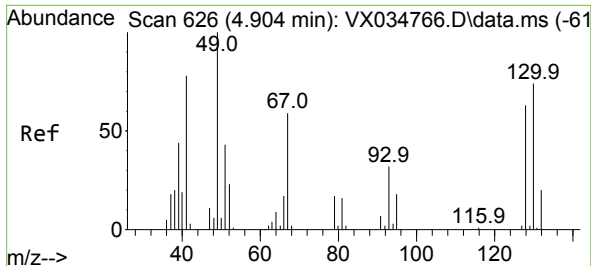
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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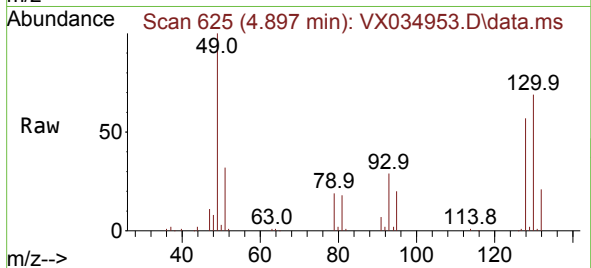
Quant Time: Apr 07 03:17:57 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X032823W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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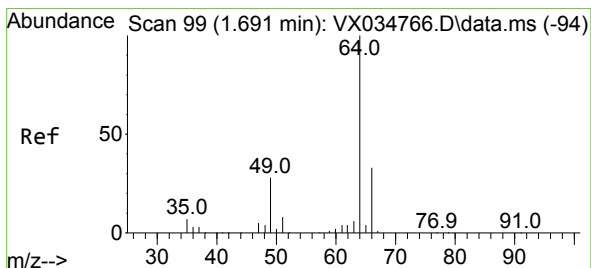
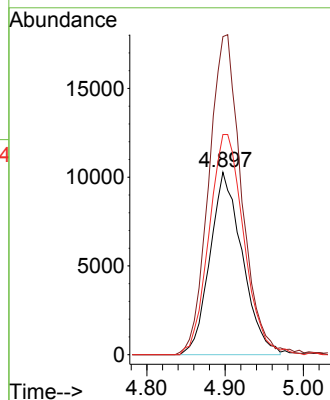
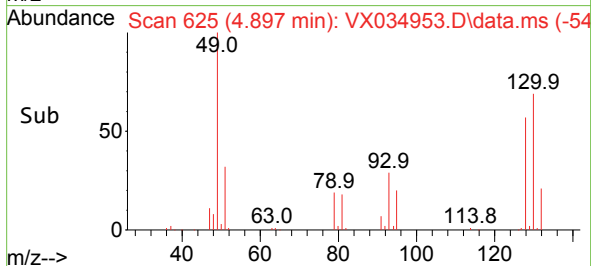


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.007 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

Instrument :
MSVOA_X
ClientSampleId :
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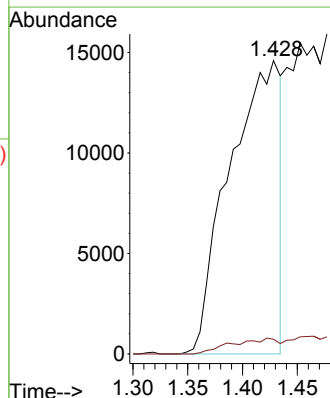
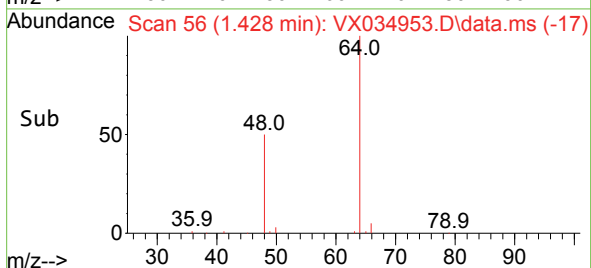
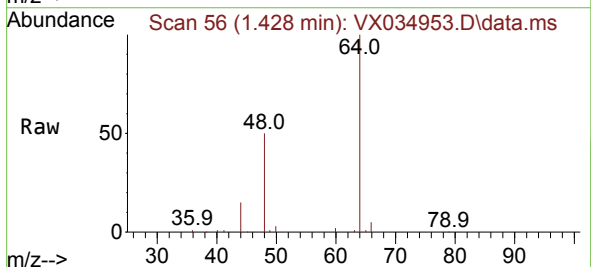


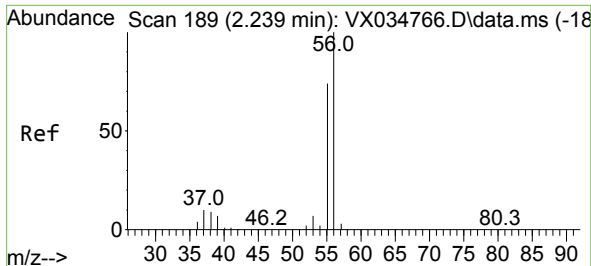
Tgt Ion:128 Resp: 29528
Ion Ratio Lower Upper
128 100
49 175.6 0.0 428.8
130 129.8 0.0 310.8



#6
Chloroethane
Concen: 20.216 ug/l
RT: 1.428 min Scan# 56
Delta R.T. -0.263 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

Tgt Ion: 64 Resp: 47136
Ion Ratio Lower Upper
64 100
66 5.0 26.6 40.0#





#13

Acrolein

Concen: 0.264 ug/l

RT: 2.233 min Scan# 11

Delta R.T. -0.006 min

Lab File: VX034953.D

Acq: 06 Apr 2023 14:11

Instrument :

MSVOA_X

ClientSampleId :

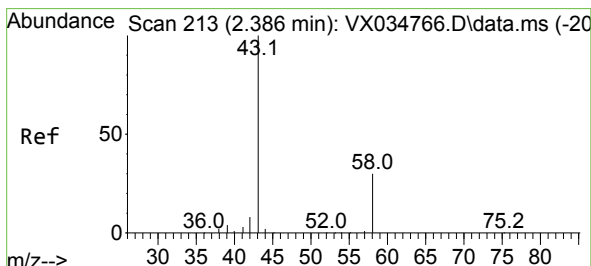
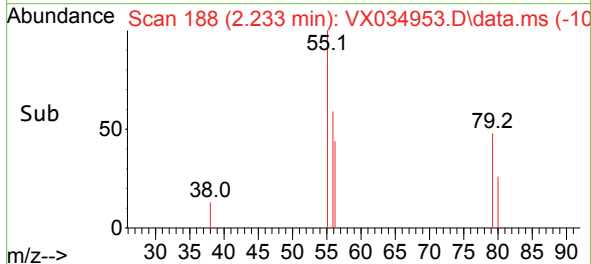
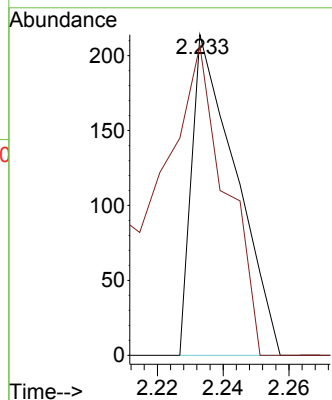
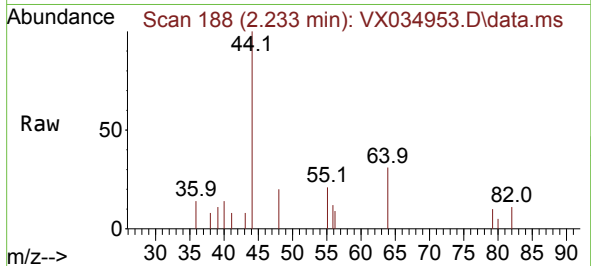
001-WILLETS-PT-BLVD(APR)

Tgt Ion: 56 Resp: 199

Ion Ratio Lower Upper

56 100

55 126.1 56.6 85.0#



#15

Acetone

Concen: 97.882 ug/l

RT: 2.379 min Scan# 212

Delta R.T. -0.007 min

Lab File: VX034953.D

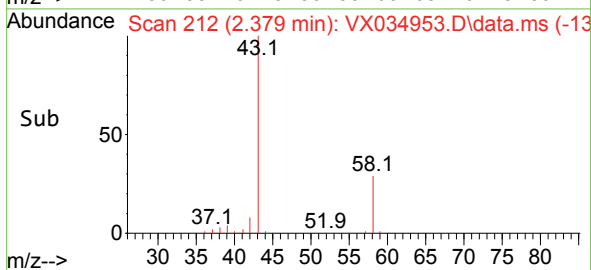
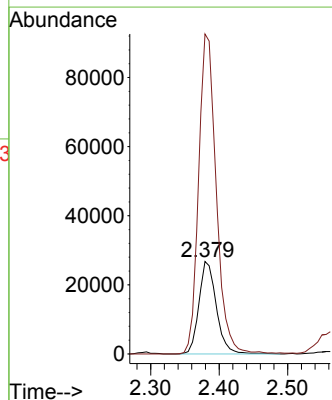
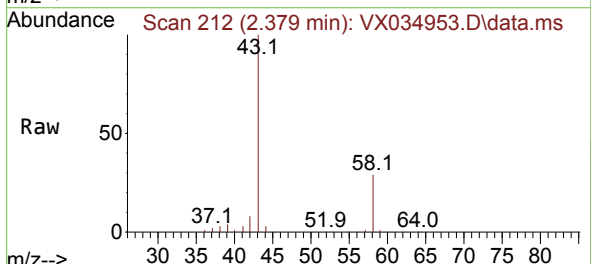
Acq: 06 Apr 2023 14:11

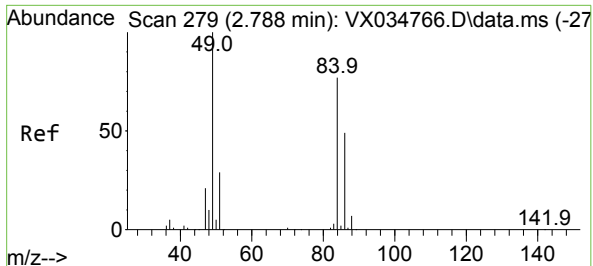
Tgt Ion: 58 Resp: 47495

Ion Ratio Lower Upper

58 100

43 345.6 270.8 406.2

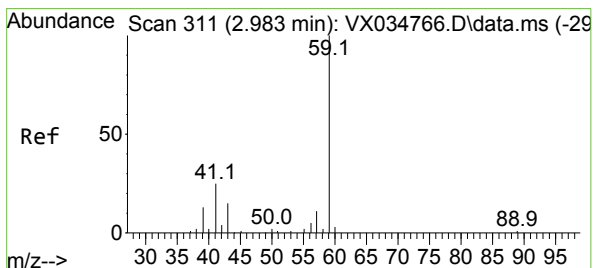
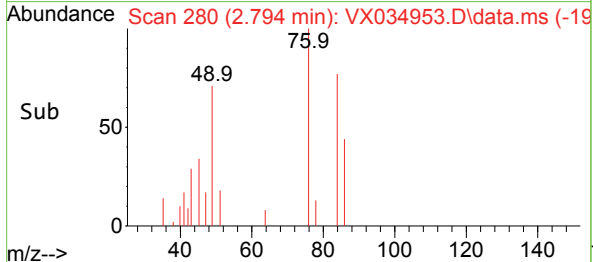
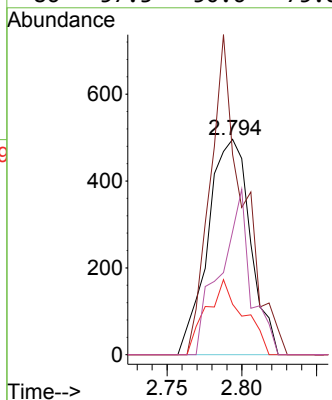
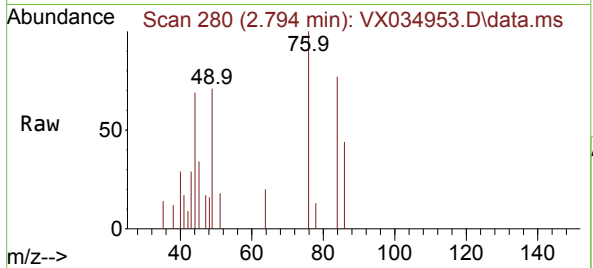




#18
Methylene Chloride
Concen: 0.283 ug/l
RT: 2.794 min Scan# 218
Delta R.T. 0.006 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

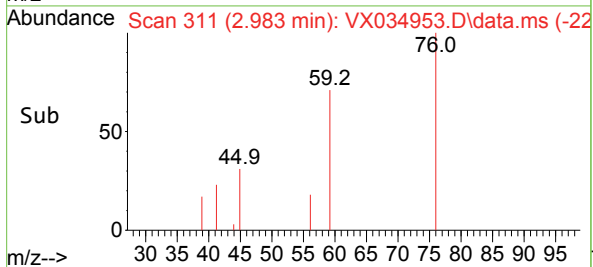
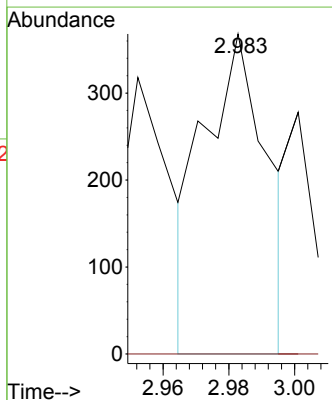
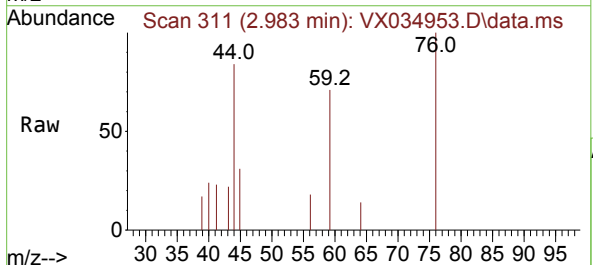
Instrument :
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ClientSampleId :
001-WILLETS-PT-BLVD(APR)

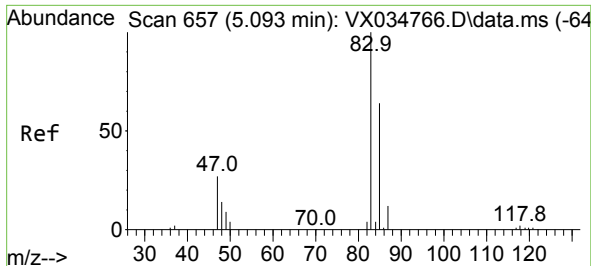
Tgt Ion:	84	Resp:	978
Ion	Ratio	Lower	Upper
84	100		
49	92.9	103.9	155.9#
51	23.4	30.6	45.8#
86	57.3	50.6	75.8



#23
tert-Butyl Alcohol
Concen: 0.609 ug/l
RT: 2.983 min Scan# 311
Delta R.T. -0.000 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

Tgt Ion:	59	Resp:	490
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.2	0.4#

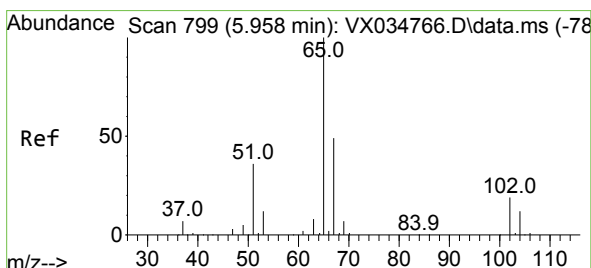
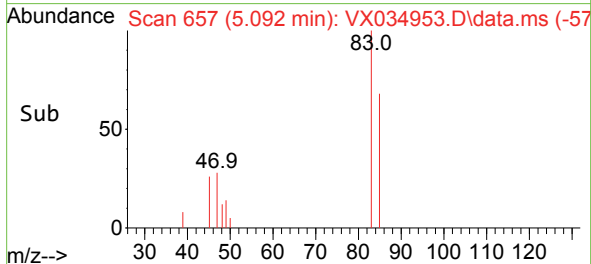
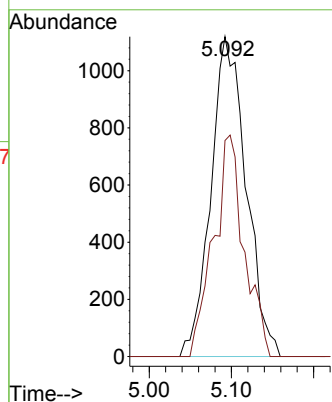
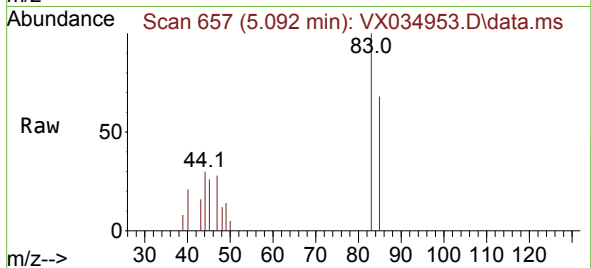




#25
Chloroform
Concen: 0.528 ug/l
RT: 5.092 min Scan# 61
Delta R.T. -0.001 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

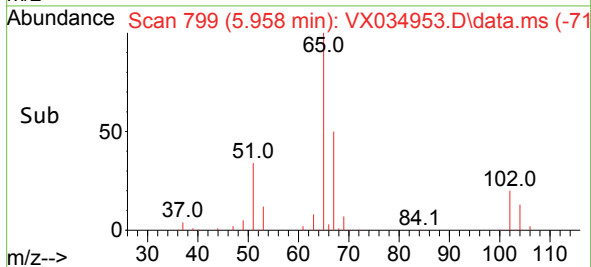
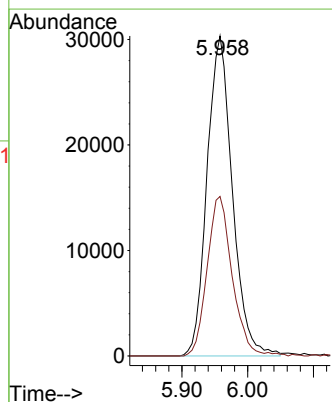
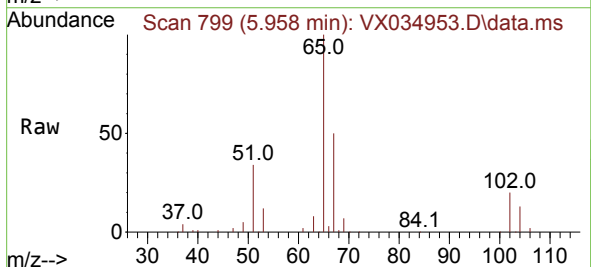
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(APR)

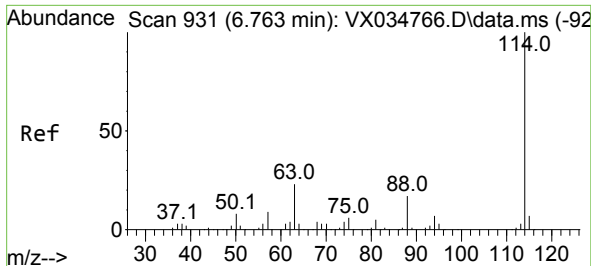
Tgt Ion: 83 Resp: 3337
Ion Ratio Lower Upper
83 100
85 67.6 51.2 76.8



#27
1,2-Dichloroethane-d4
Concen: 28.664 ug/l
RT: 5.958 min Scan# 799
Delta R.T. -0.000 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

Tgt Ion: 65 Resp: 81325
Ion Ratio Lower Upper
65 100
67 49.0 40.9 61.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. -0.000 min

Lab File: VX034953.D

Acq: 06 Apr 2023 14:11

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(APR)

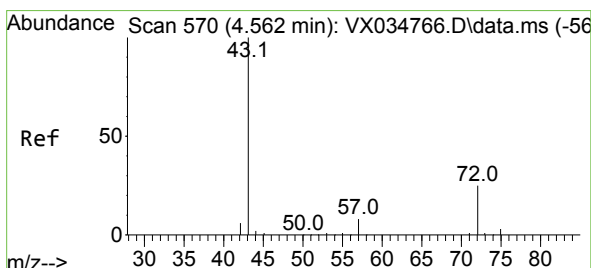
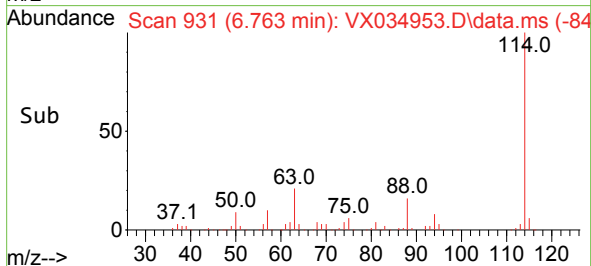
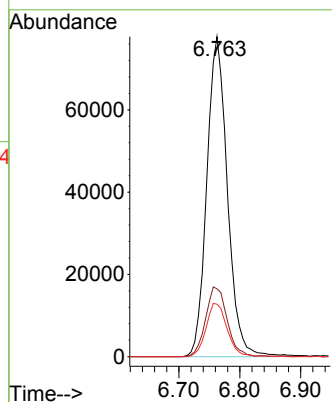
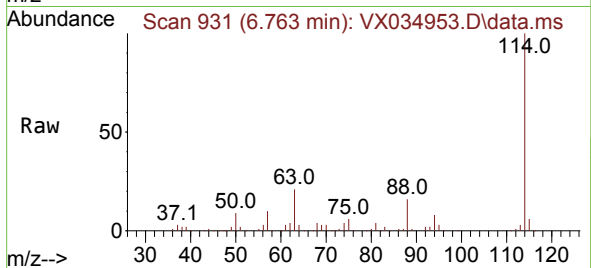
Tgt Ion:114 Resp: 182650

Ion Ratio Lower Upper

114 100

63 22.7 18.0 27.0

88 17.1 13.3 19.9



#30

2-Butanone

Concen: 4.944 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.012 min

Lab File: VX034953.D

Acq: 06 Apr 2023 14:11

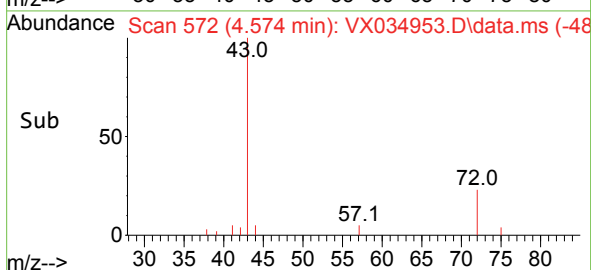
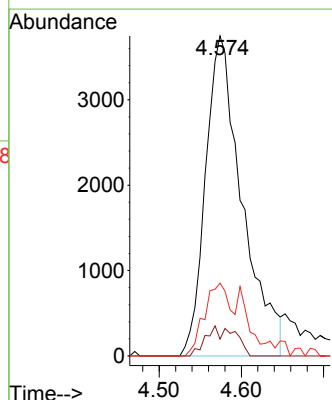
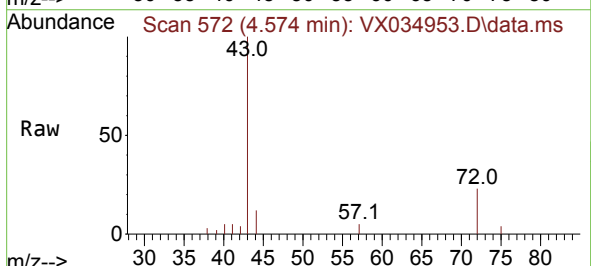
Tgt Ion: 43 Resp: 11582

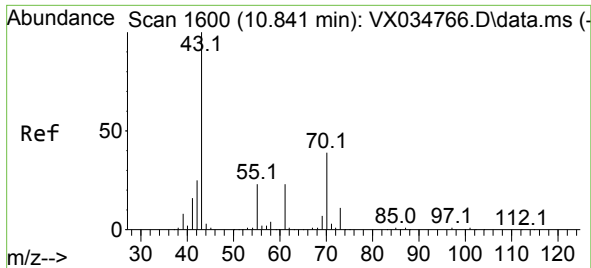
Ion Ratio Lower Upper

43 100

57 3.7 6.3 9.5#

72 16.6 19.6 29.4#

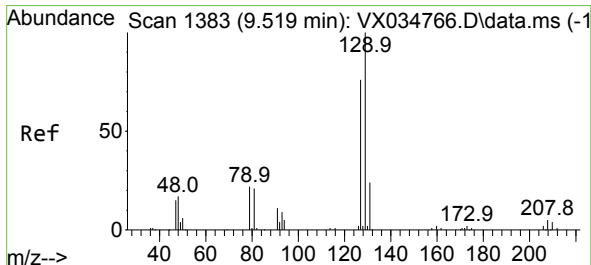
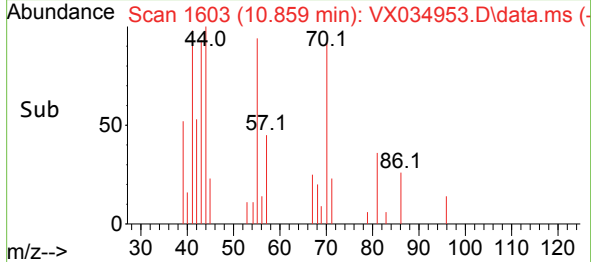
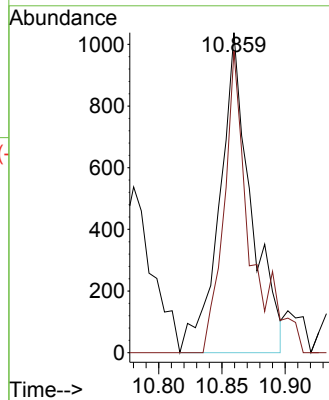
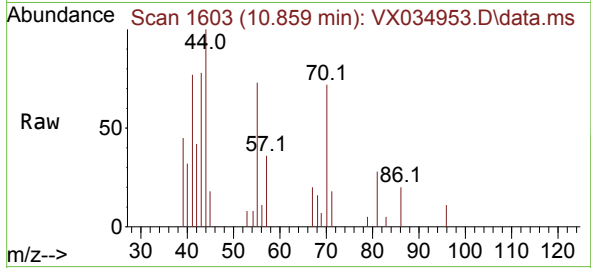




#47
n-amyl Acetate
Concen: 0.268 ug/l
RT: 10.859 min Scan# 1603
Delta R.T. 0.018 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

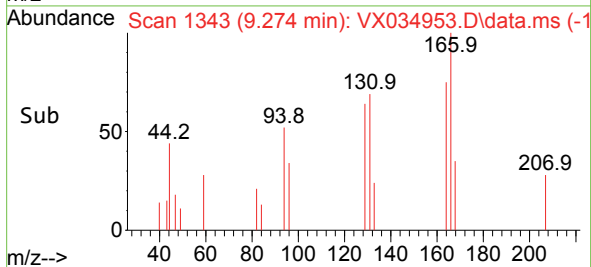
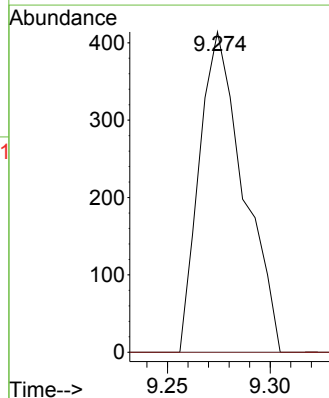
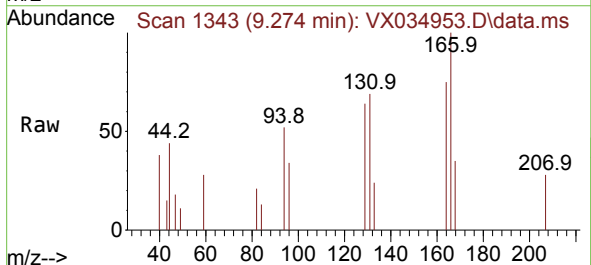
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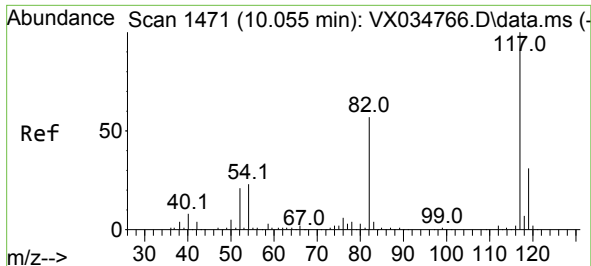
Tgt Ion: 43 Resp: 1789
Ion Ratio Lower Upper
43 100
55 67.4 18.6 28.0#



#53
Dibromochloromethane
Concen: 0.207 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.245 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

Tgt Ion: 129 Resp: 621
Ion Ratio Lower Upper
129 100
127 0.0 39.1 117.5#

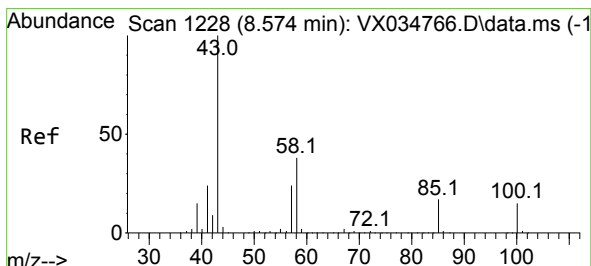
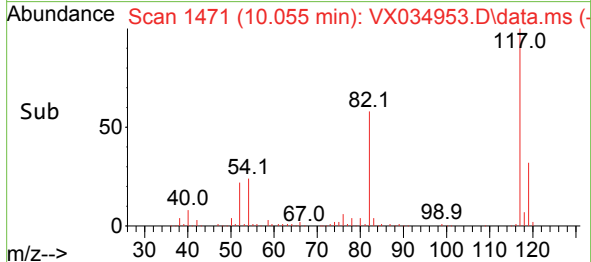
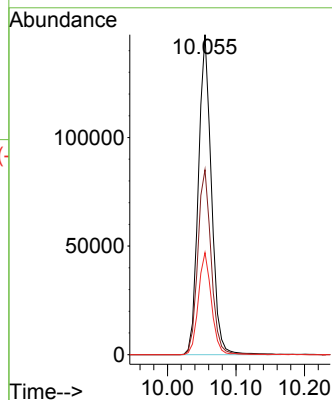
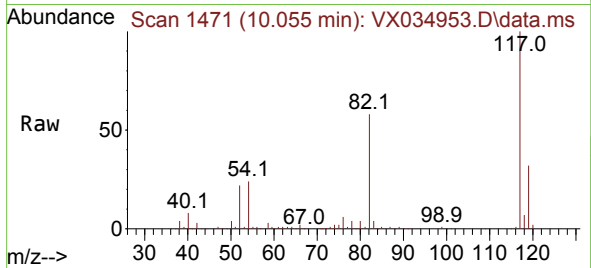




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

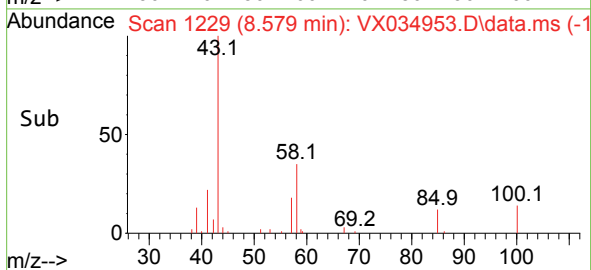
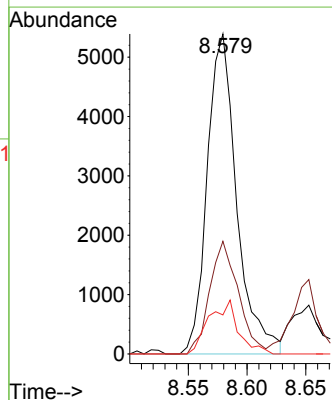
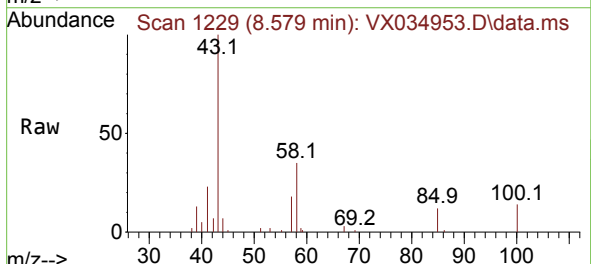
Instrument : MSVOA_X
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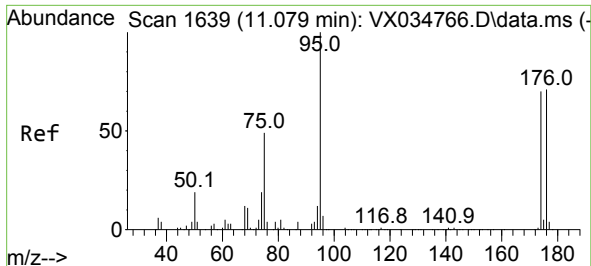
Tgt Ion:117 Resp: 195004
Ion Ratio Lower Upper
117 100
82 59.0 45.8 68.8
119 31.7 25.4 38.0



#58
4-Methyl-2-Pentanone
Concen: 2.108 ug/l
RT: 8.579 min Scan# 1229
Delta R.T. 0.005 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

Tgt Ion: 43 Resp: 9423
Ion Ratio Lower Upper
43 100
58 34.3 29.9 44.9
85 7.2 13.2 19.8

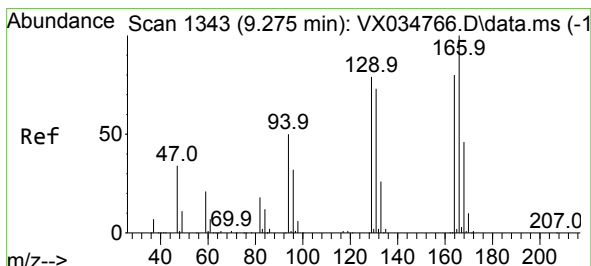
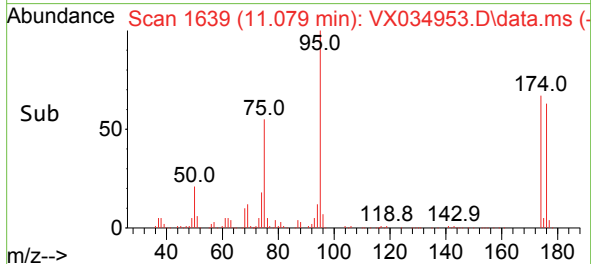
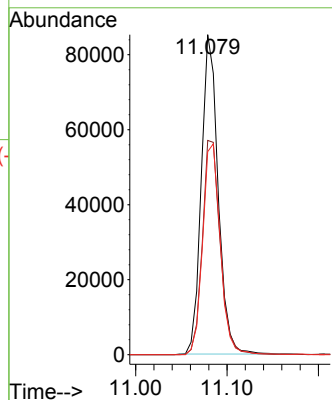
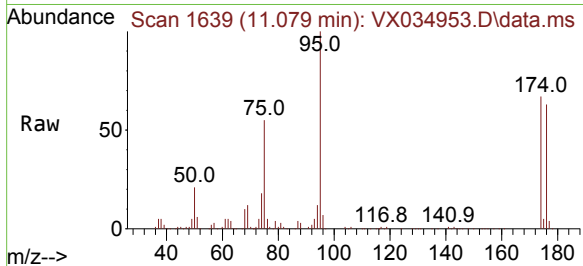




#60
4-Bromofluorobenzene
Concen: 27.861 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

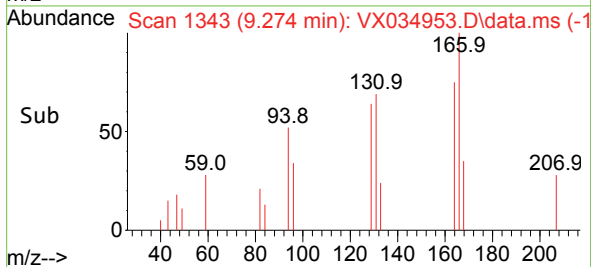
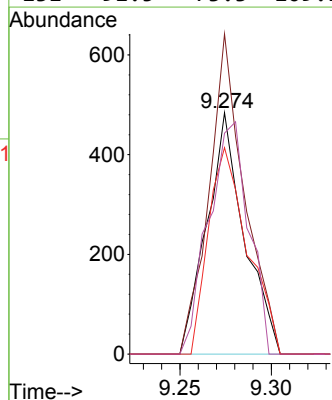
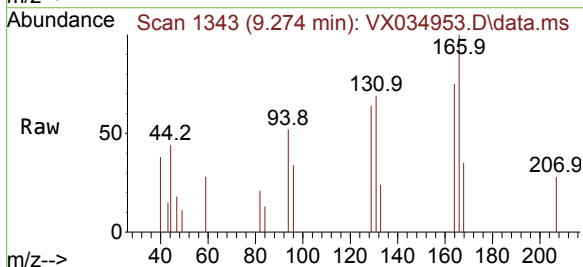
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(APR)

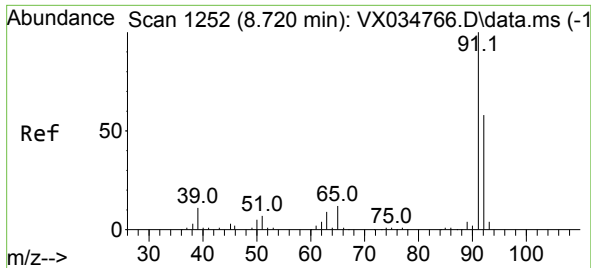
Tgt Ion: 95 Resp: 108560
Ion Ratio Lower Upper
95 100
174 71.2 0.2 0.4#
176 69.2 0.2 0.2#



#61
Tetrachloroethene
Concen: 0.263 ug/l
RT: 9.274 min Scan# 1343
Delta R.T. -0.001 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

Tgt Ion: 164 Resp: 691
Ion Ratio Lower Upper
164 100
166 132.6 100.1 150.1
129 85.5 79.1 118.7
131 91.5 73.3 109.9





#62

Toluene

Concen: 0.631 ug/l

RT: 8.720 min Scan# 1252

Delta R.T. -0.000 min

Lab File: VX034953.D

Acq: 06 Apr 2023 14:11

Instrument :

MSVOA_X

ClientSampleId :

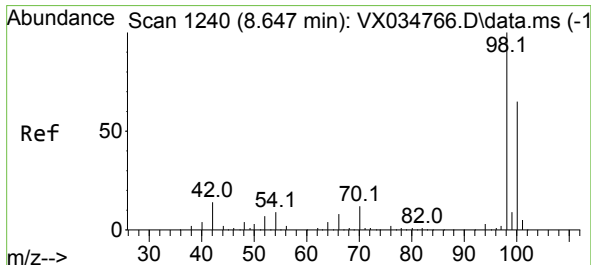
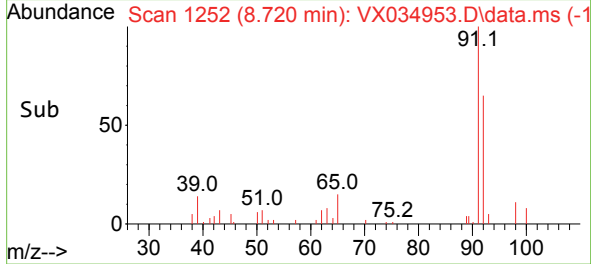
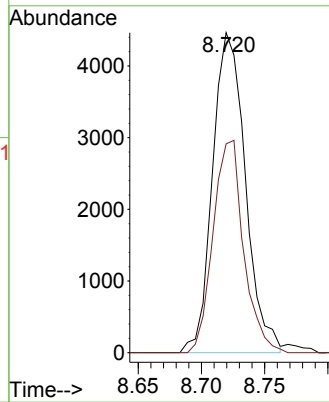
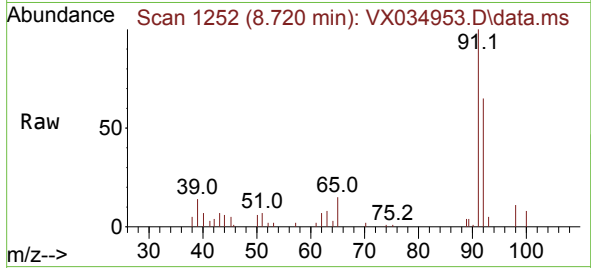
001-WILLETS-PT-BLVD(APR)

Tgt Ion: 91 Resp: 8048

Ion Ratio Lower Upper

91 100

92 61.7 46.5 69.7



#63

Toluene-d8

Concen: 29.767 ug/l

RT: 8.646 min Scan# 1240

Delta R.T. -0.001 min

Lab File: VX034953.D

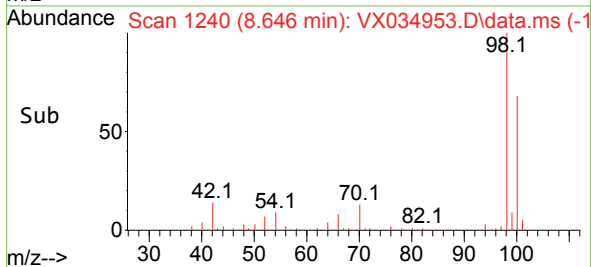
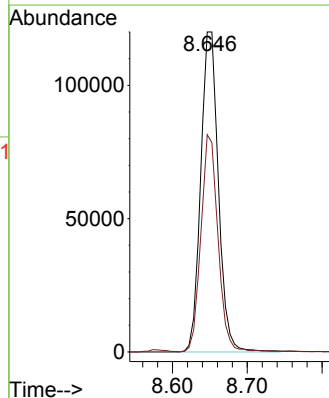
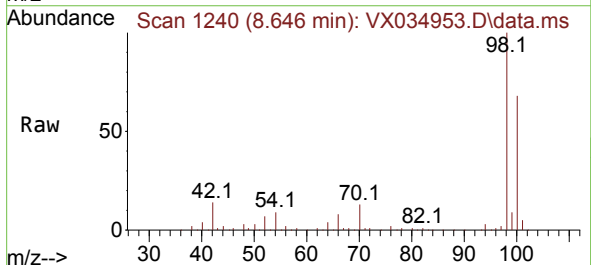
Acq: 06 Apr 2023 14:11

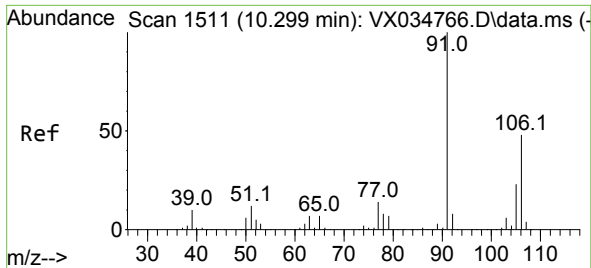
Tgt Ion: 98 Resp: 197264

Ion Ratio Lower Upper

98 100

100 65.3 52.1 78.1

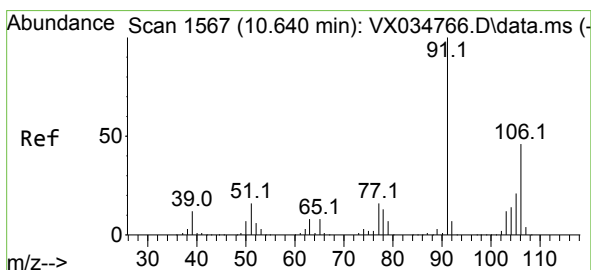
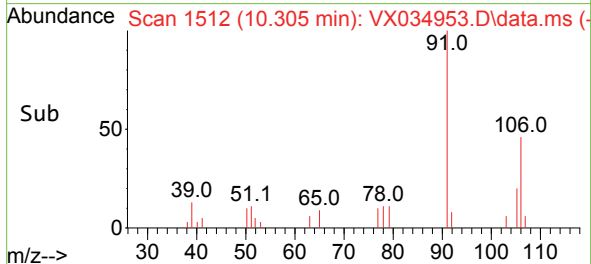
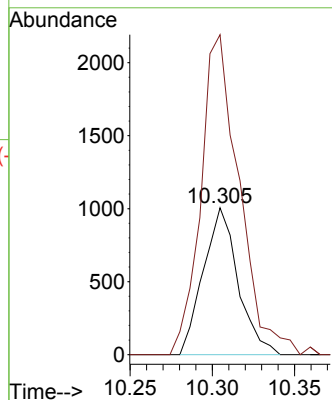
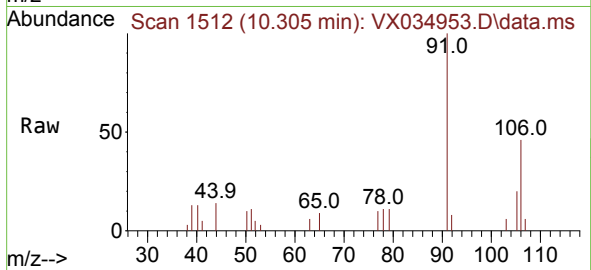




#67
m/p-Xylenes
Concen: 0.274 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

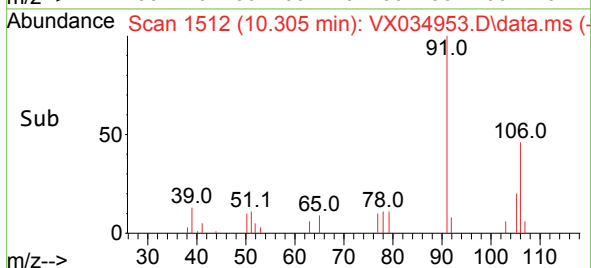
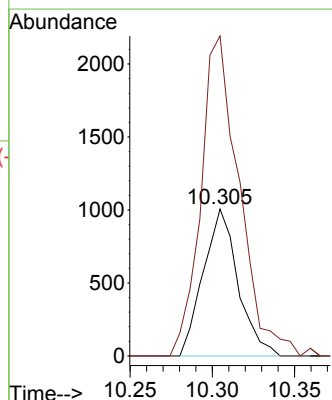
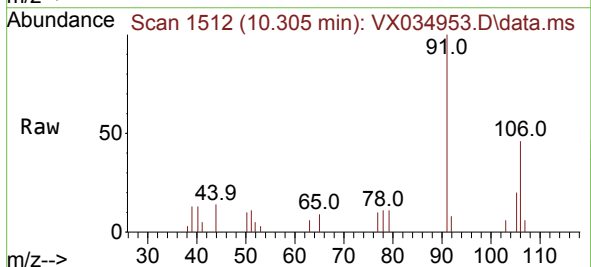
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(APR)

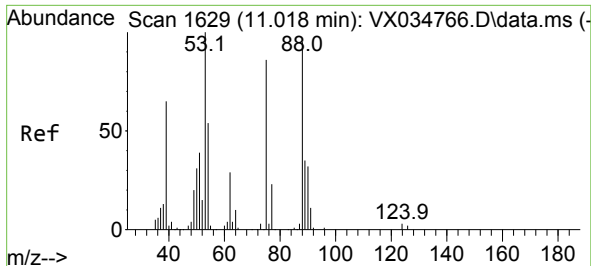
Tgt Ion:106 Resp: 1479
Ion Ratio Lower Upper
106 100
91 240.3 167.4 251.2



#68
o-Xylene
Concen: 0.277 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. -0.335 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

Tgt Ion:106 Resp: 1479
Ion Ratio Lower Upper
106 100
91 240.3 108.9 326.8

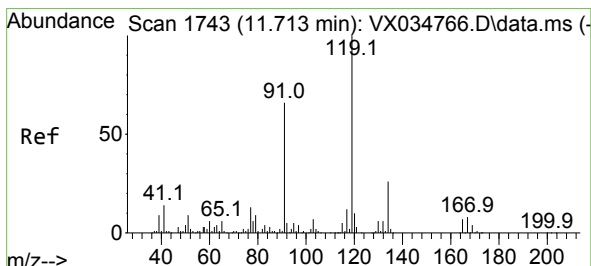
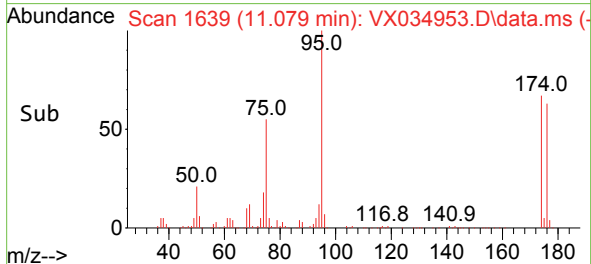
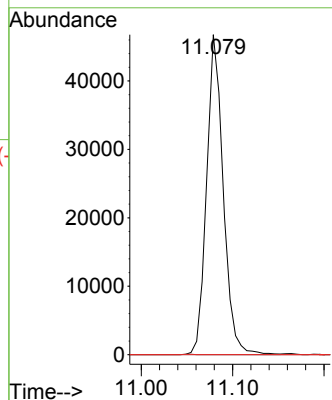
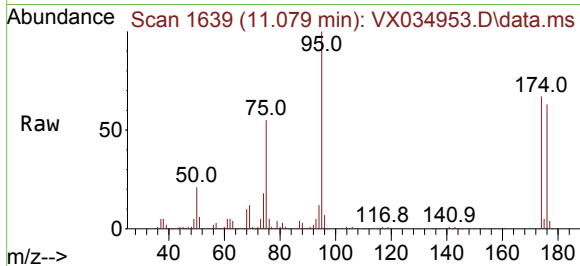




#77
t-1,4-Dichloro-2-butene
Concen: 46.400 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

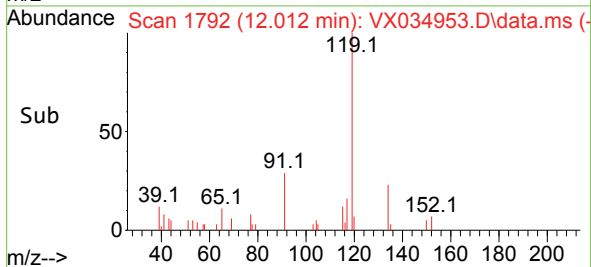
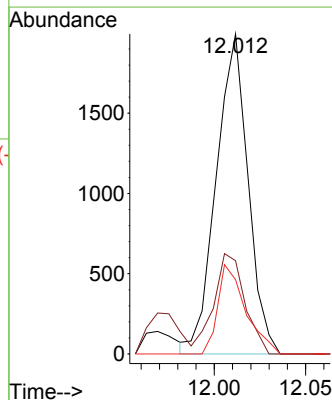
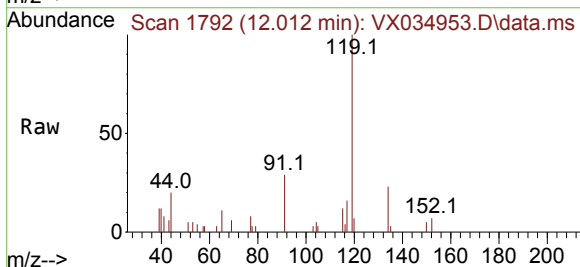
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(APR)

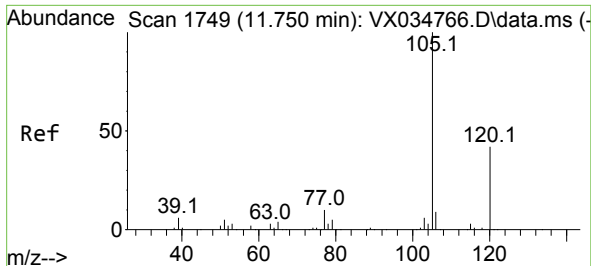
Tgt Ion: 75 Resp: 58969
Ion Ratio Lower Upper
75 100
53 0.0 58.2 174.6#
89 0.0 20.6 61.8#



#79
tert-butylbenzene
Concen: 0.217 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.299 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

Tgt Ion: 119 Resp: 2411
Ion Ratio Lower Upper
119 100
91 30.8 0.0 122.4
134 24.5 0.0 49.2

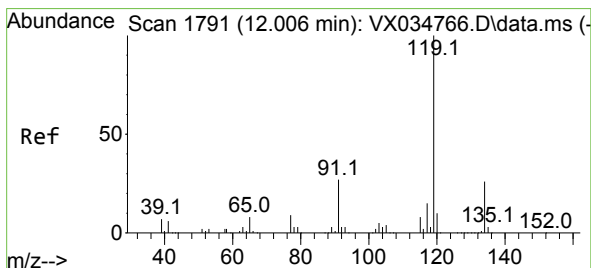
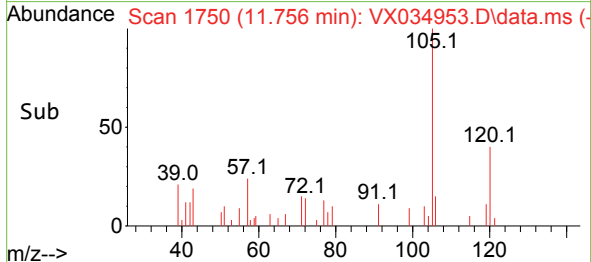
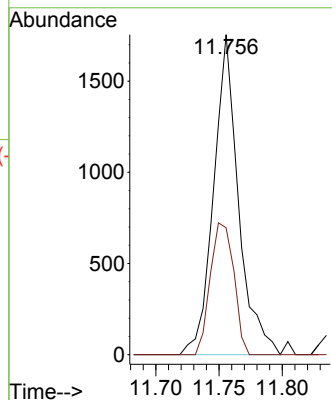
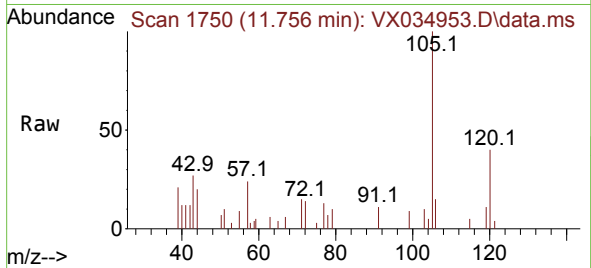




#80
1,2,4-Trimethylbenzene
Concen: 0.207 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

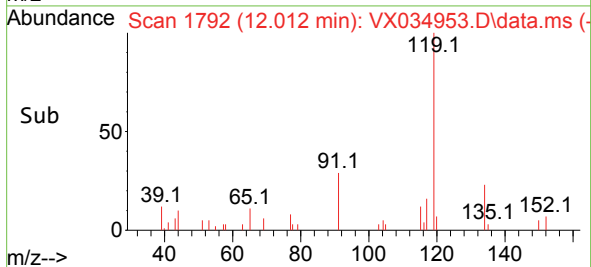
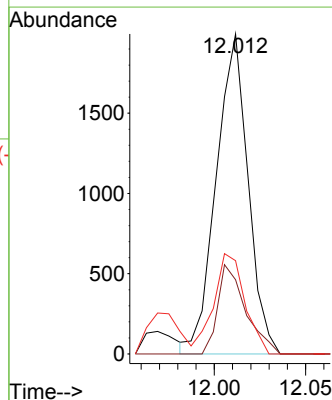
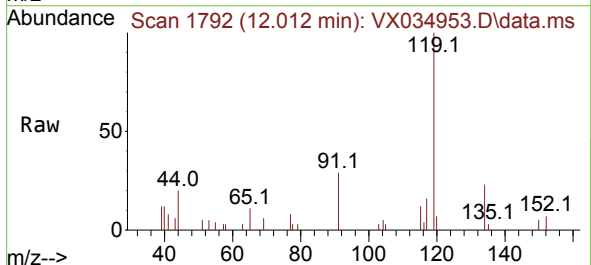
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(APR)

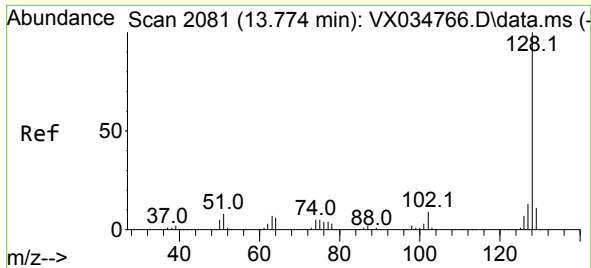
Tgt Ion:105 Resp: 2398
Ion Ratio Lower Upper
105 100
120 38.9 0.0 90.4



#82
p-Isopropyltoluene
Concen: 0.212 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.006 min
Lab File: VX034953.D
Acq: 06 Apr 2023 14:11

Tgt Ion:119 Resp: 2411
Ion Ratio Lower Upper
119 100
134 24.5 0.0 52.2
91 30.8 0.0 51.0





#91

Naphthalene

Concen: 0.341 ug/l

RT: 13.780 min Scan# 2082

Delta R.T. 0.006 min

Lab File: VX034953.D

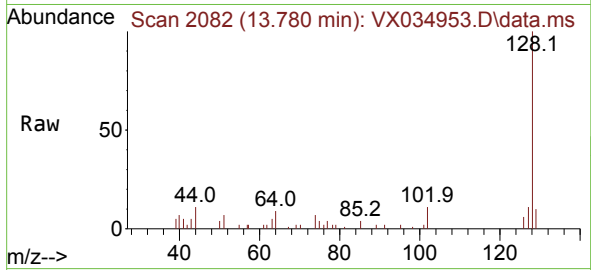
Acq: 06 Apr 2023 14:11

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(APR)



Tgt Ion:128 Resp: 4438

Ion Ratio Lower Upper

128 100

127 13.2 10.3 15.5

129 9.9 8.8 13.2

