

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061523\
 Data File : VX036169.D
 Acq On : 15 Jun 2023 15:05
 Operator : JC/MD
 Sample : 03218-01DL 4X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Jun 16 07:55:23 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)

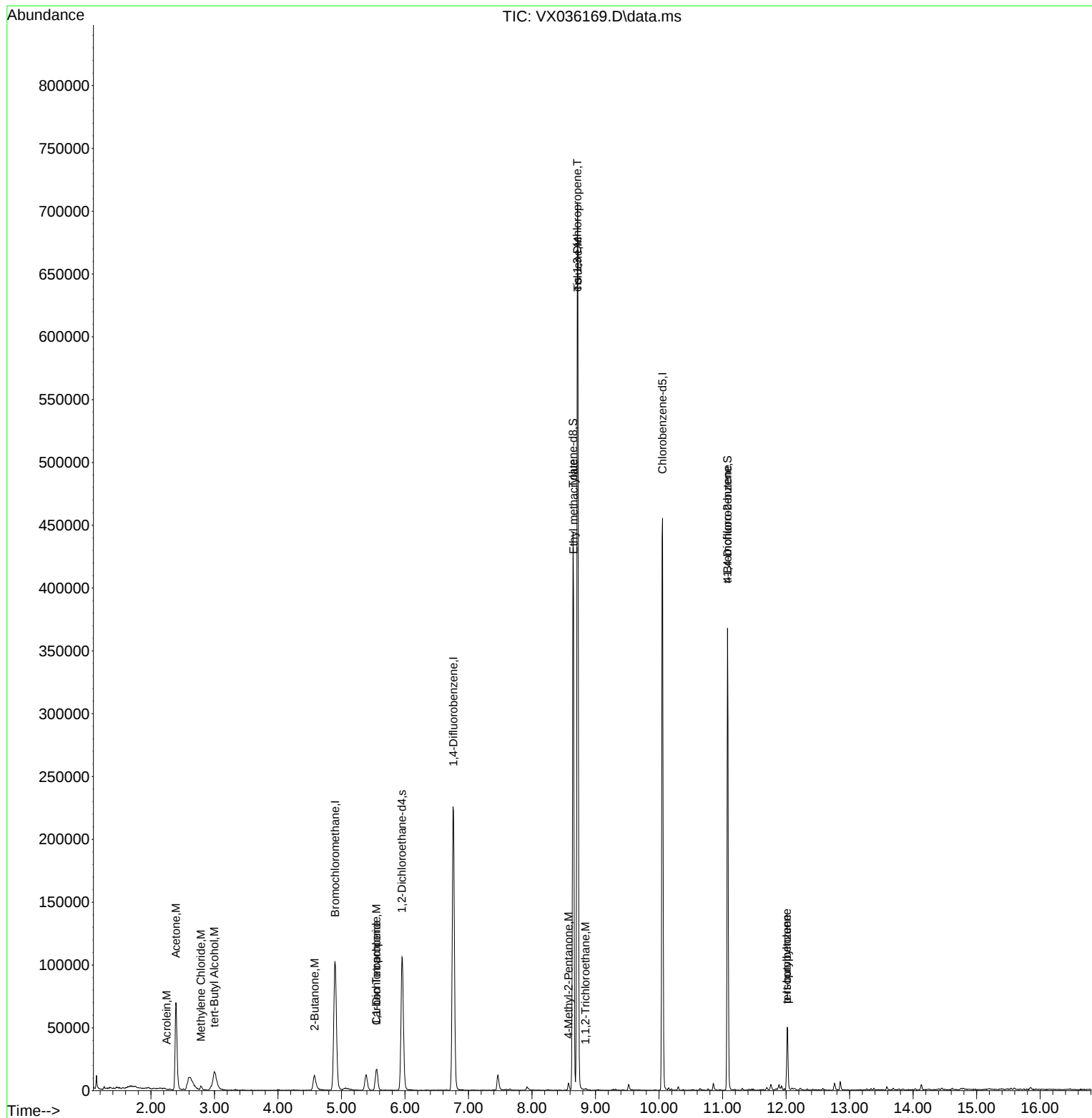
Internal Standards						
1) Bromochloromethane	4.898	128	40084	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	213510	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	191044	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	111130	33.367	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 111.233%#			
60) 4-Bromofluorobenzene	11.079	95	96497	30.102	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 100.333%			
63) Toluene-d8	8.647	98	244921	28.999	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.667%			
Target Compounds						
					Qvalue	
13) Acrolein	2.246	56	180	0.401	ug/l #	18
15) Acetone	2.392	58	26370	61.942	ug/l	86
18) Methylene Chloride	2.788	84	1211	0.463	ug/l #	91
23) tert-Butyl Alcohol	2.995	59	31324	60.291	ug/l #	100
29) 1,1-Dichloropropene	5.550	75	1584	0.533	ug/l #	45
30) 2-Butanone	4.574	43	17105	8.788	ug/l	95
33) Carbon Tetrachloride	5.550	117	1064	0.388	ug/l #	24
49) cis-1,3-Dichloropropene	8.714	75	3860	1.024	ug/l #	1
50) 1,1,2-Trichloroethane	8.842	97	619	0.253	ug/l #	22
51) Ethyl methacrylate	8.653	69	884	0.235	ug/l #	60
58) 4-Methyl-2-Pentanone	8.574	43	3614	0.974	ug/l	100
62) Toluene	8.720	91	444441	45.175	ug/l	99
77) t-1,4-Dichloro-2-butene	11.079	75	54315	54.890	ug/l #	4
79) tert-butylbenzene	12.012	119	3549	0.407	ug/l	72
82) p-Isopropyltoluene	12.012	119	3549	0.388	ug/l	92

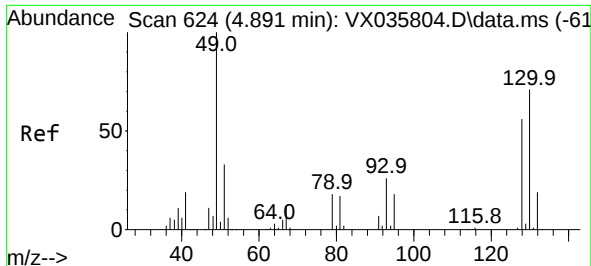
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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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: VX036169.D

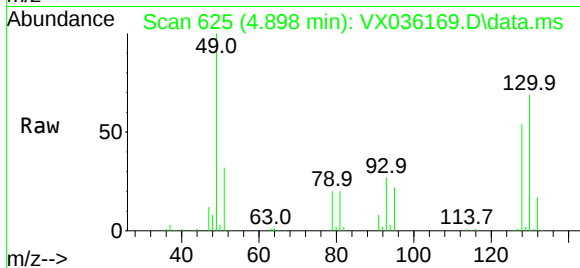
Acq: 15 Jun 2023 15:05

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)DL



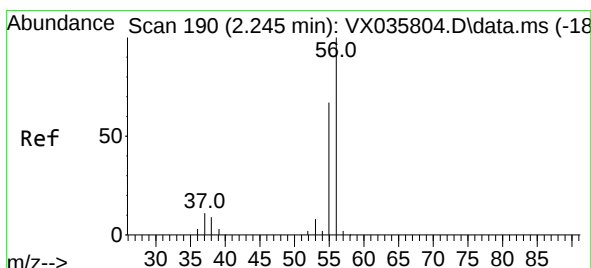
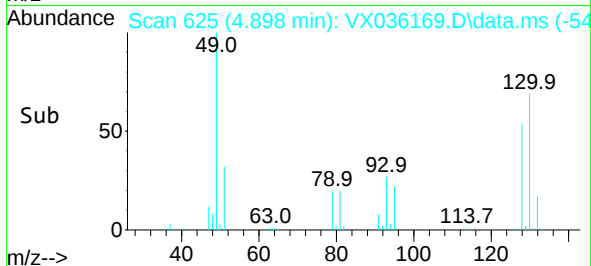
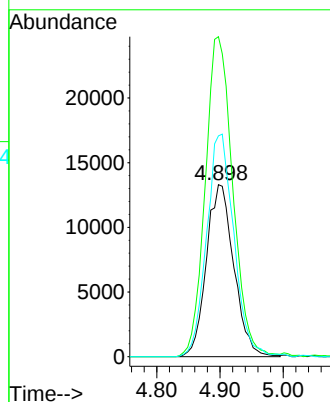
Tgt Ion:128 Resp: 40084

Ion Ratio Lower Upper

128 100

49 186.5 0.0 428.8

130 128.6 0.0 310.8



#13

Acrolein

Concen: 0.401 ug/l

RT: 2.246 min Scan# 190

Delta R.T. 0.000 min

Lab File: VX036169.D

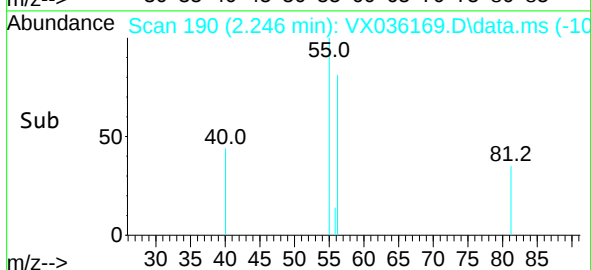
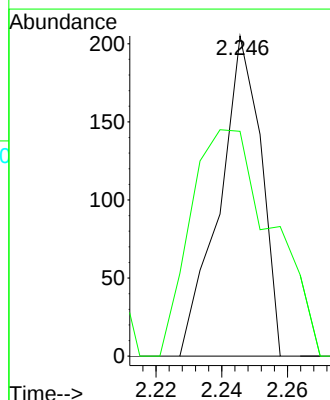
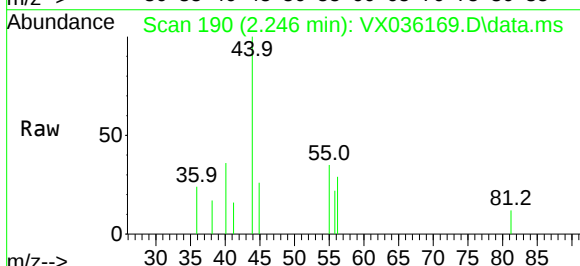
Acq: 15 Jun 2023 15:05

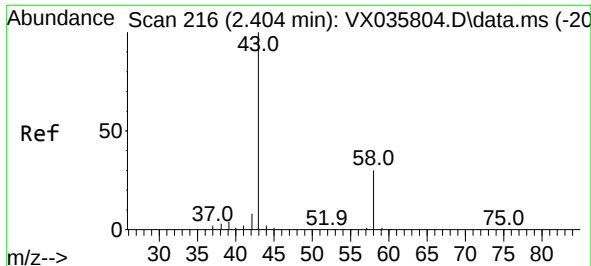
Tgt Ion: 56 Resp: 180

Ion Ratio Lower Upper

56 100

55 138.9 56.6 85.0#

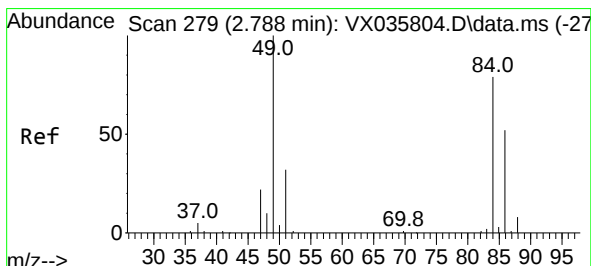
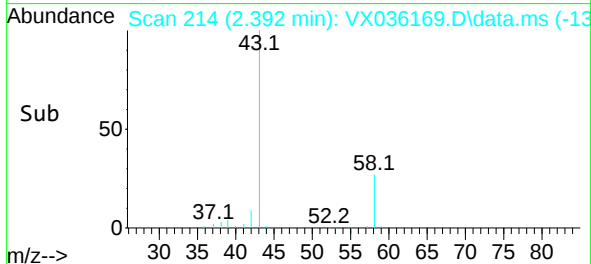
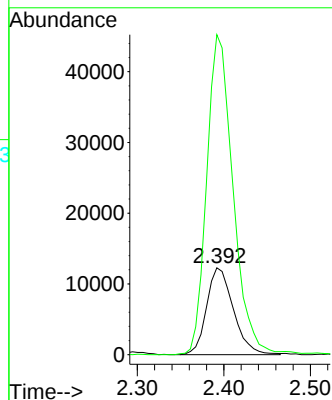
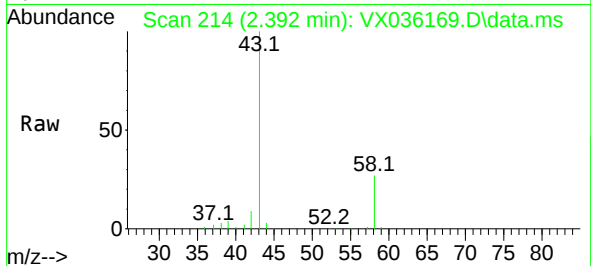




#15
Acetone
Concen: 61.942 ug/l
RT: 2.392 min Scan# 216
Delta R.T. -0.012 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

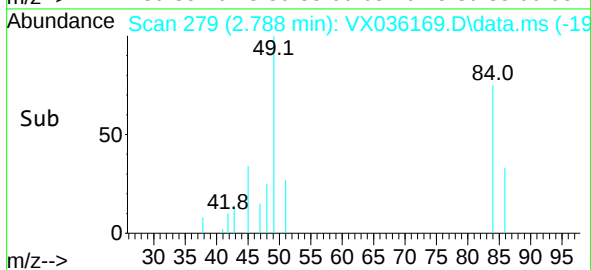
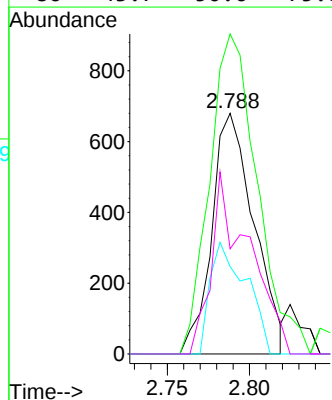
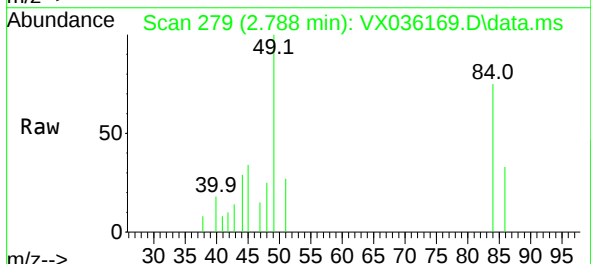
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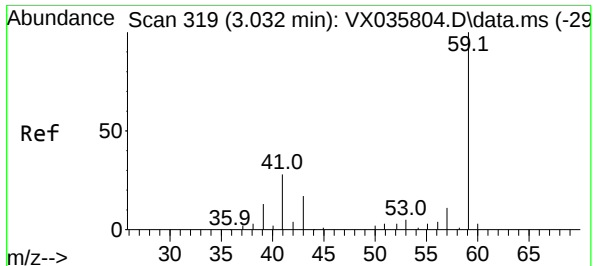
Tgt Ion: 58 Resp: 26370
Ion Ratio Lower Upper
58 100
43 367.3 270.8 406.2



#18
Methylene Chloride
Concen: 0.463 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.000 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

Tgt Ion: 84 Resp: 1211
Ion Ratio Lower Upper
84 100
49 132.9 103.9 155.9
51 36.3 30.6 45.8
86 43.7 50.6 75.8#

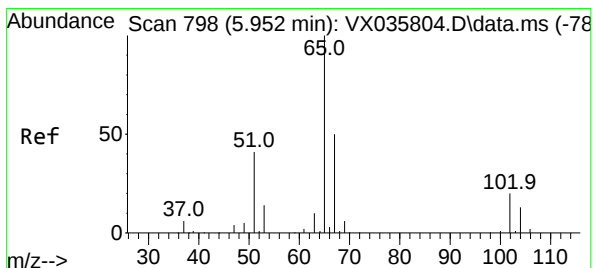
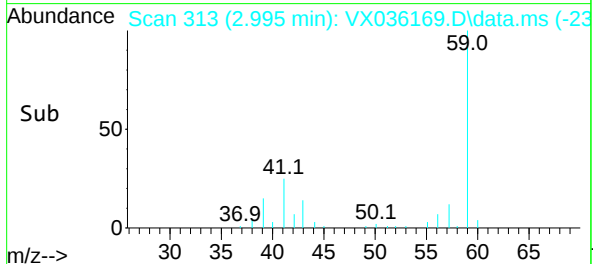
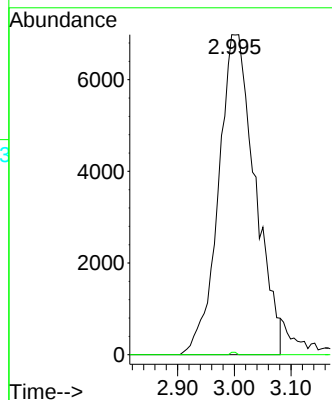
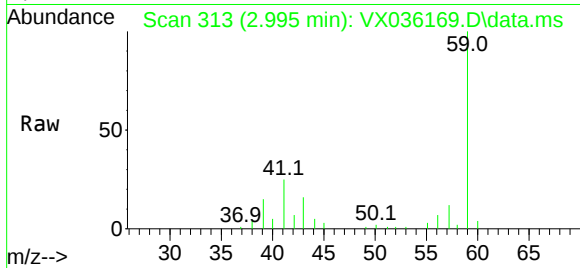




#23
tert-Butyl Alcohol
Concen: 60.291 ug/l
RT: 2.995 min Scan# 319
Delta R.T. -0.037 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

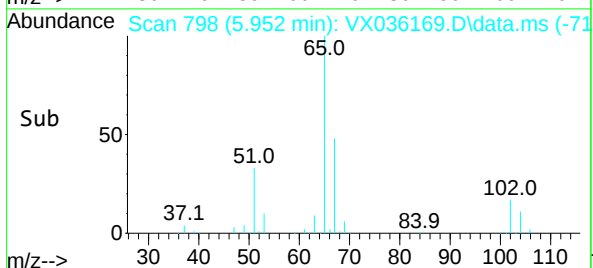
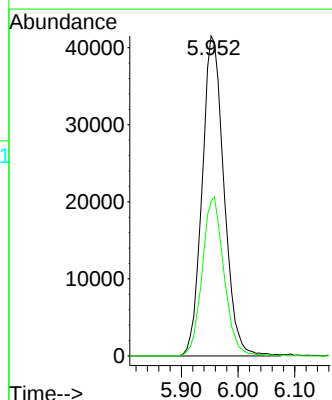
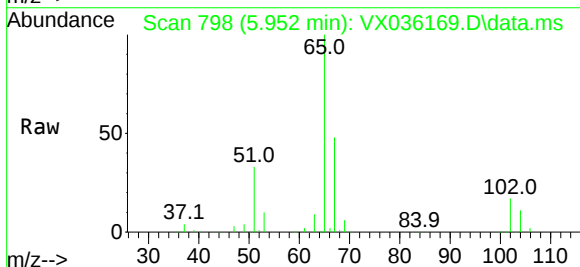
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

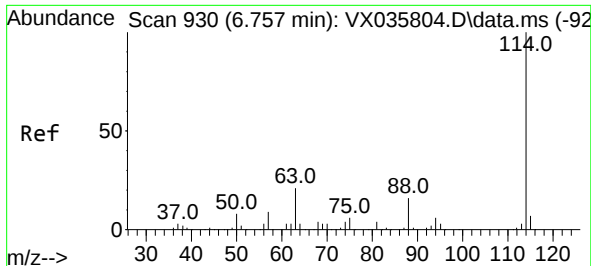
Tgt Ion: 59 Resp: 31324
Ion Ratio Lower Upper
59 100
52 0.1 0.2 0.4#



#27
1,2-Dichloroethane-d4
Concen: 33.367 ug/l
RT: 5.952 min Scan# 798
Delta R.T. 0.000 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

Tgt Ion: 65 Resp: 111130
Ion Ratio Lower Upper
65 100
67 49.2 40.9 61.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 91

Delta R.T. 0.006 min

Lab File: VX036169.D

Acq: 15 Jun 2023 15:05

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)DL

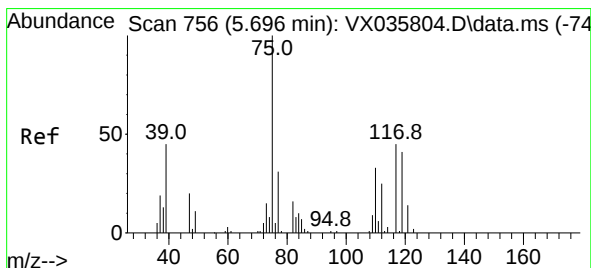
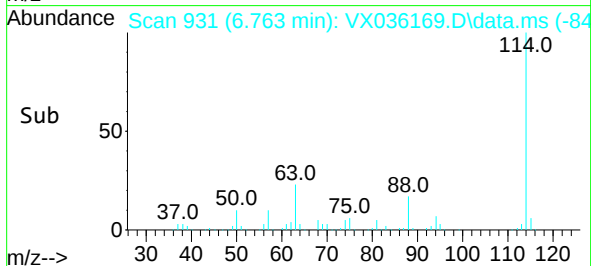
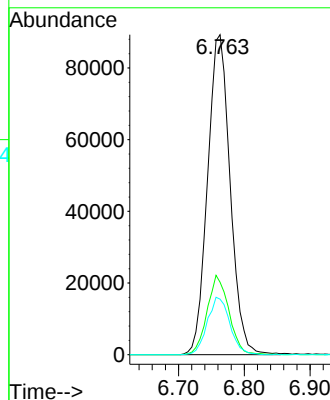
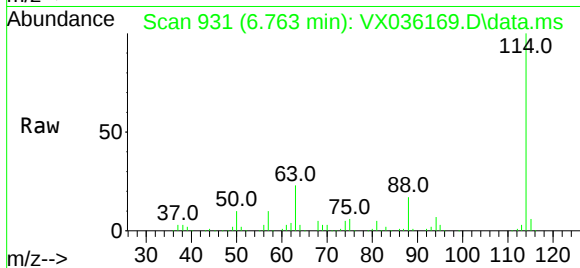
Tgt Ion:114 Resp: 213510

Ion Ratio Lower Upper

114 100

63 23.9 18.0 27.0

88 17.9 13.3 19.9



#29

1,1-Dichloropropene

Concen: 0.533 ug/l

RT: 5.550 min Scan# 732

Delta R.T. -0.146 min

Lab File: VX036169.D

Acq: 15 Jun 2023 15:05

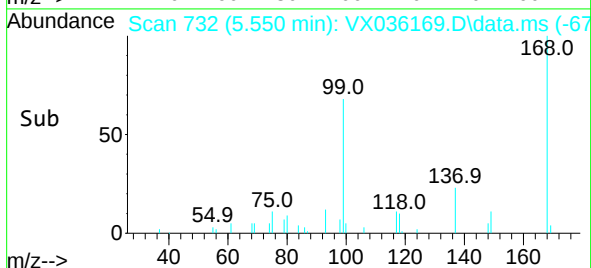
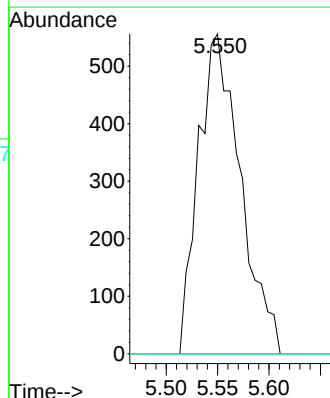
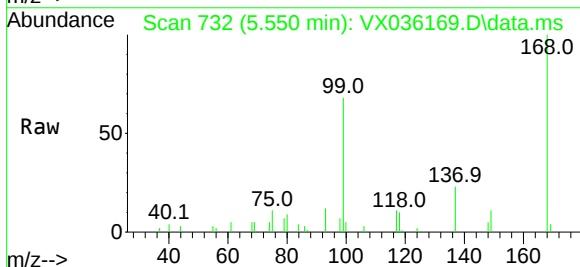
Tgt Ion: 75 Resp: 1584

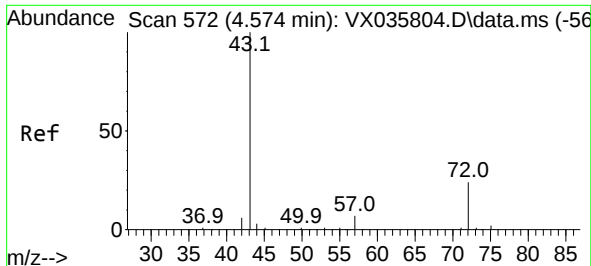
Ion Ratio Lower Upper

75 100

110 3.7 0.0 71.4

77 0.0 0.0 61.6

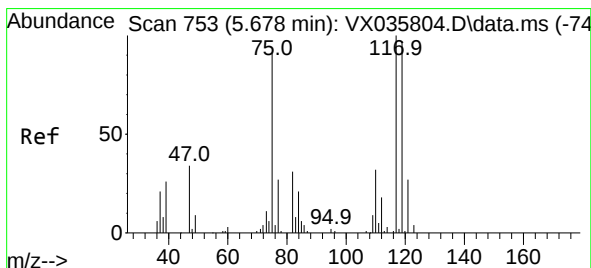
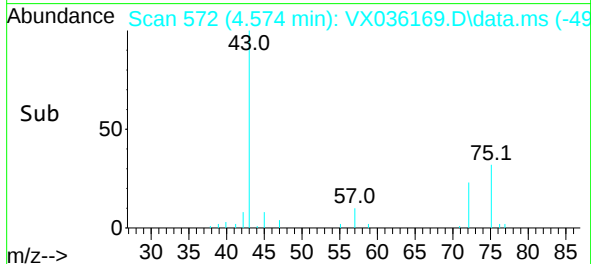
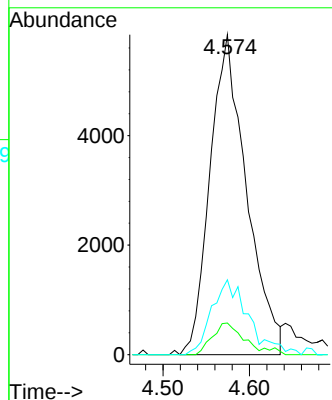
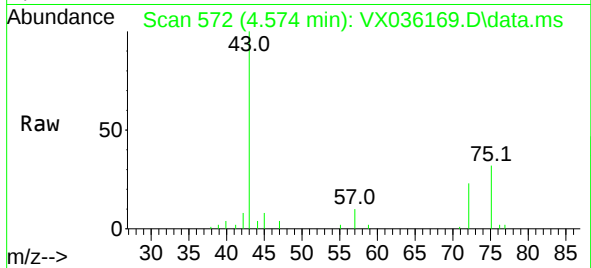




#30
2-Butanone
Concen: 8.788 ug/l
RT: 4.574 min Scan# 51
Delta R.T. 0.000 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

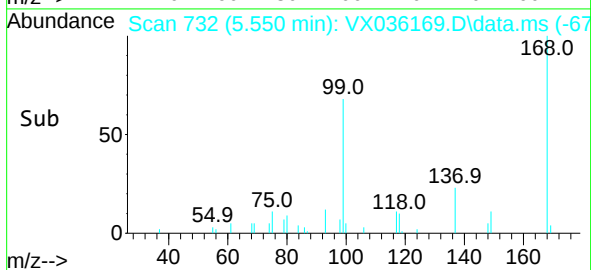
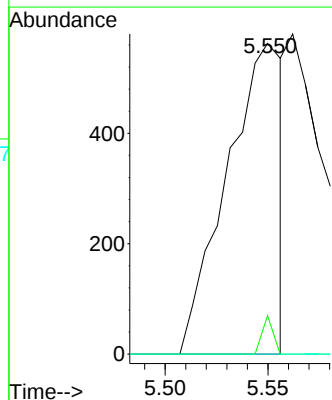
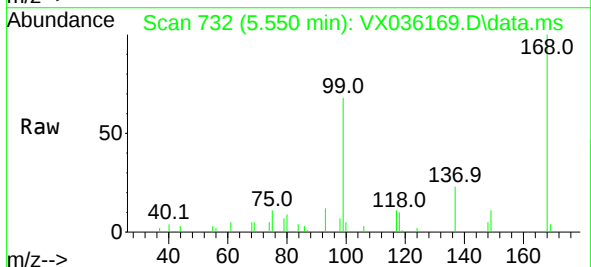
Instrument :
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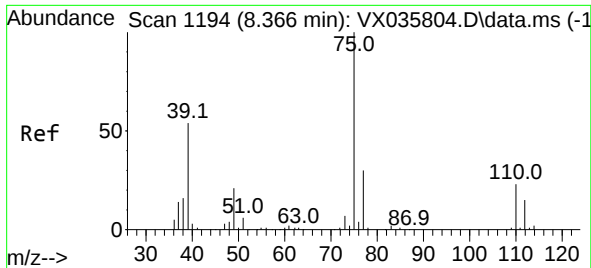
Tgt Ion: 43 Resp: 17105
Ion Ratio Lower Upper
43 100
57 8.1 6.3 9.5
72 21.2 19.6 29.4



#33
Carbon Tetrachloride
Concen: 0.388 ug/l
RT: 5.550 min Scan# 732
Delta R.T. -0.128 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

Tgt Ion: 117 Resp: 1064
Ion Ratio Lower Upper
117 100
119 12.4 73.3 109.9#
121 0.0 24.0 36.0#

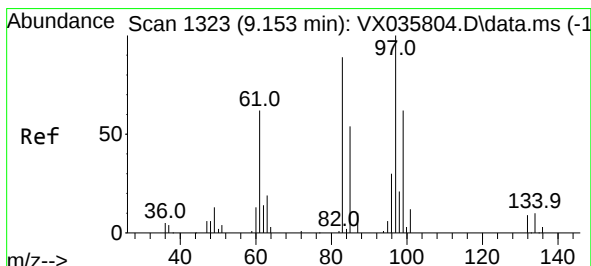
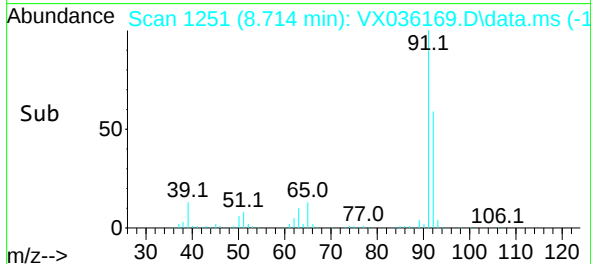
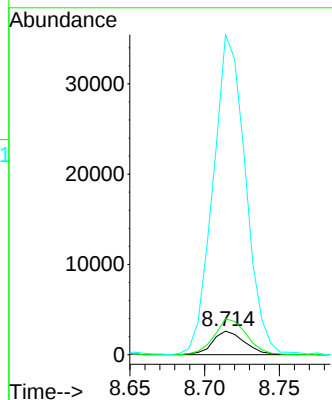
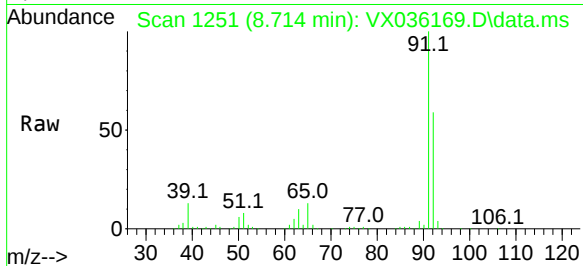




#49
 cis-1,3-Dichloropropene
 Concen: 1.024 ug/l
 RT: 8.714 min Scan# 1194
 Delta R.T. 0.348 min
 Lab File: VX036169.D
 Acq: 15 Jun 2023 15:05

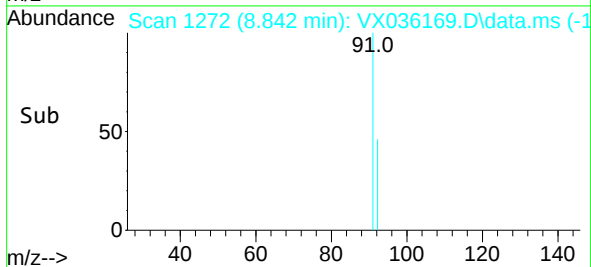
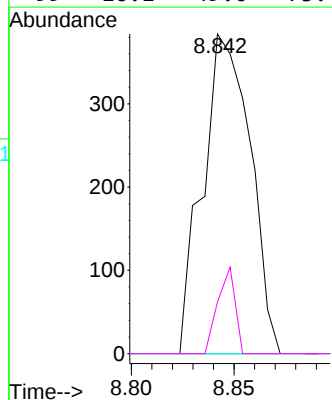
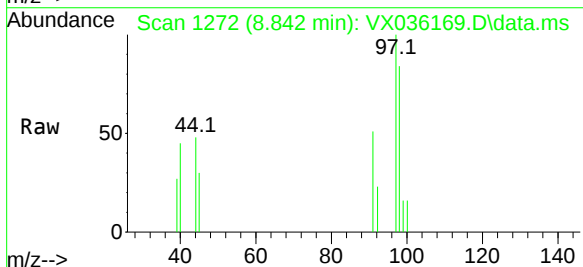
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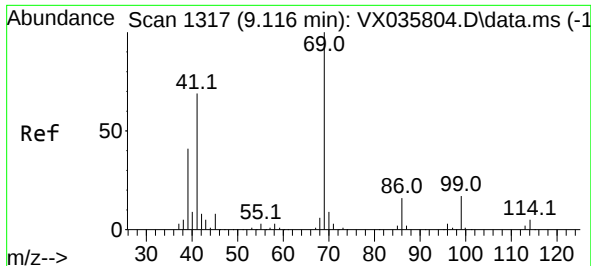
Tgt Ion: 75 Resp: 3860
 Ion Ratio Lower Upper
 75 100
 77 153.5 24.6 37.0#
 39 1355.4 44.2 66.2#



#50
 1,1,2-Trichloroethane
 Concen: 0.253 ug/l
 RT: 8.842 min Scan# 1272
 Delta R.T. -0.311 min
 Lab File: VX036169.D
 Acq: 15 Jun 2023 15:05

Tgt Ion: 97 Resp: 619
 Ion Ratio Lower Upper
 97 100
 83 0.0 68.9 103.3#
 85 0.0 44.0 66.0#
 99 16.1 49.0 73.4#

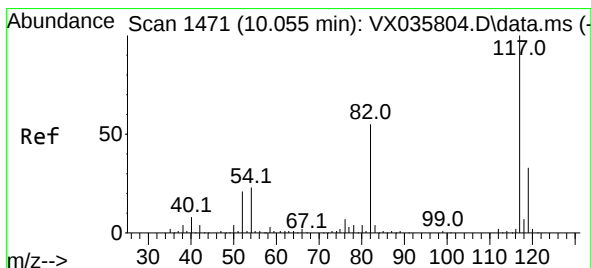
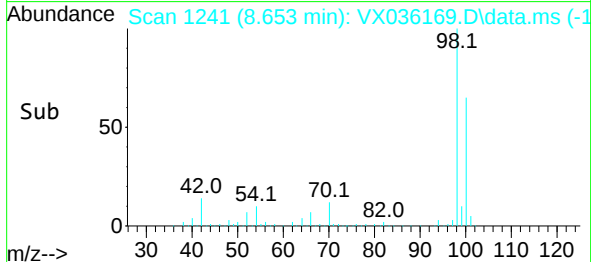
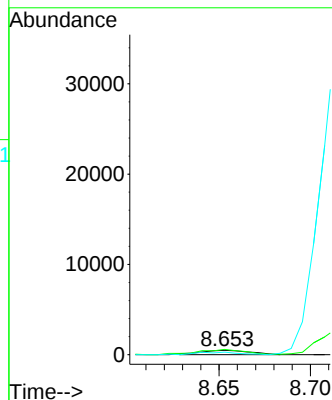
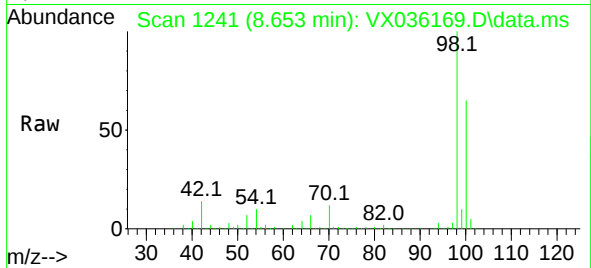




#51
Ethyl methacrylate
Concen: 0.235 ug/l
RT: 8.653 min Scan# 11
Delta R.T. -0.463 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

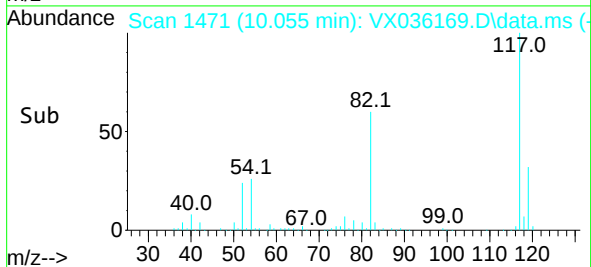
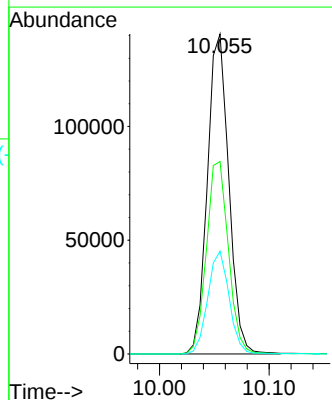
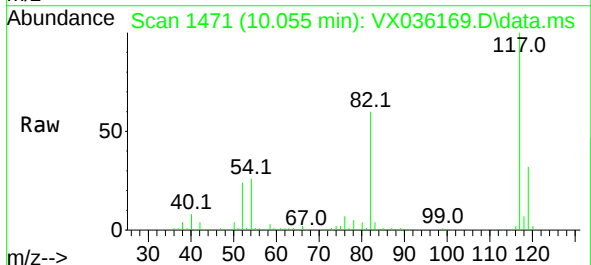
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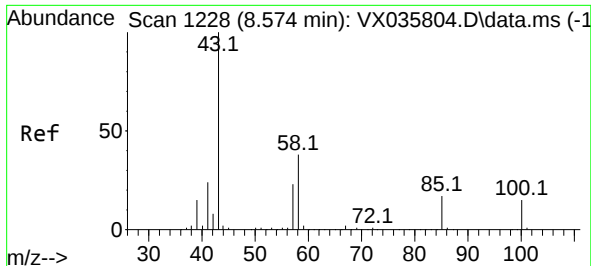
Tgt Ion: 69 Resp: 884
Ion Ratio Lower Upper
69 100
41 110.6 36.2 108.6#
39 62.0 21.2 63.6



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

Tgt Ion: 117 Resp: 191044
Ion Ratio Lower Upper
117 100
82 61.7 45.8 68.8
119 31.9 25.4 38.0

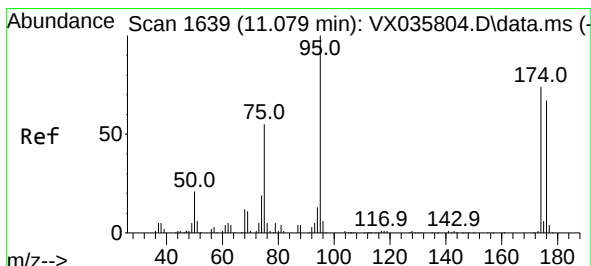
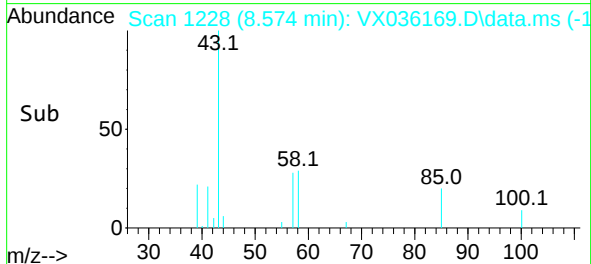
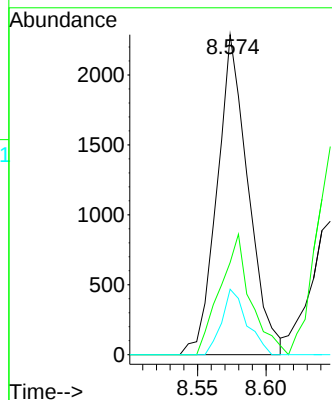
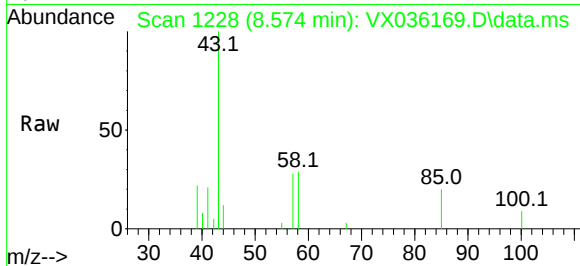




#58
4-Methyl-2-Pentanone
Concen: 0.974 ug/l
RT: 8.574 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

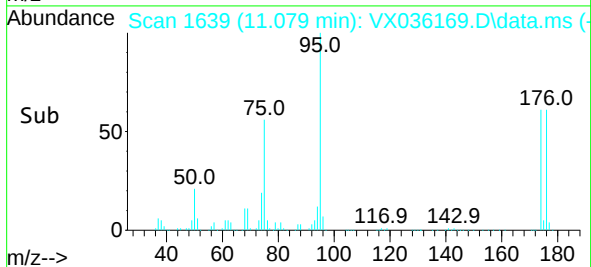
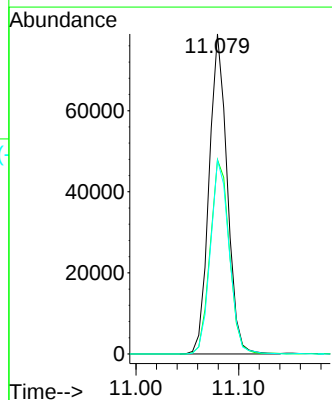
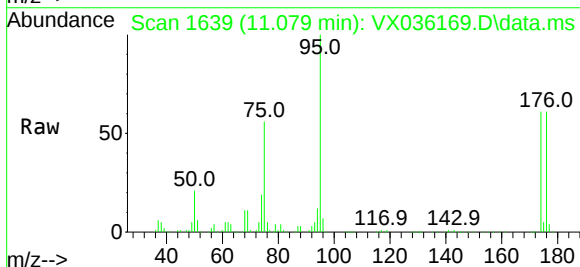
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

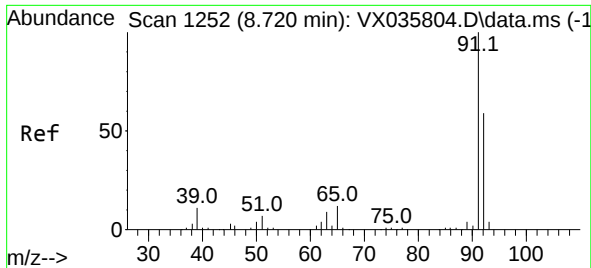
Tgt Ion:	43	Resp:	3614
Ion	Ratio	Lower	Upper
43	100		
58	37.1	29.9	44.9
85	16.5	13.2	19.8



#60
4-Bromofluorobenzene
Concen: 30.102 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

Tgt Ion:	95	Resp:	96497
Ion	Ratio	Lower	Upper
95	100		
174	63.8	0.2	0.4#
176	62.5	0.2	0.2#

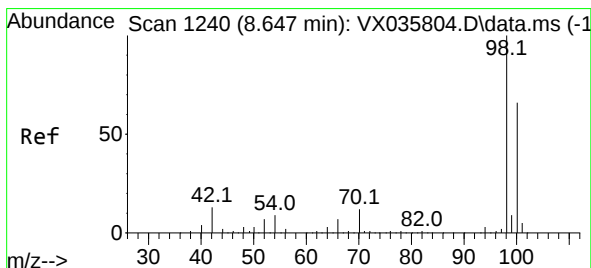
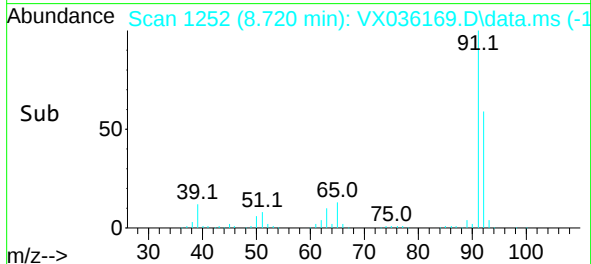
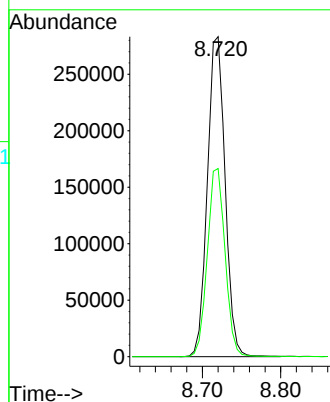
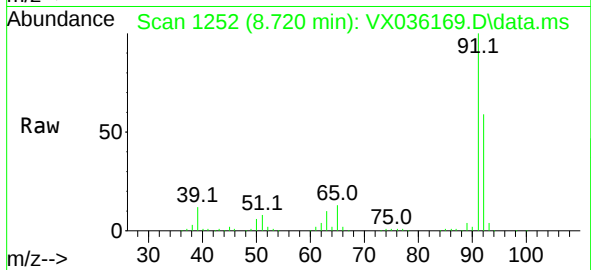




#62
Toluene
Concen: 45.175 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

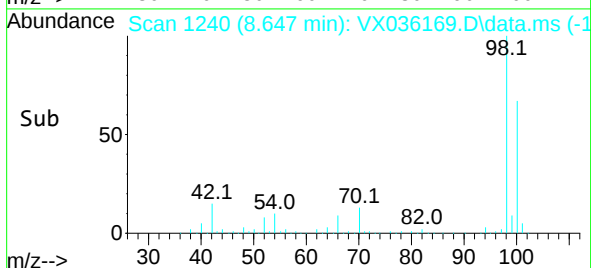
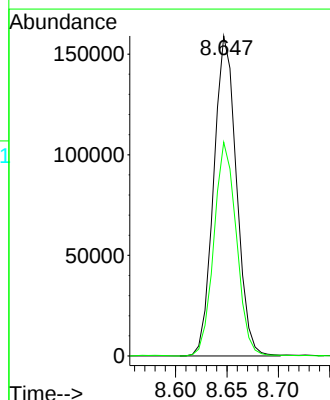
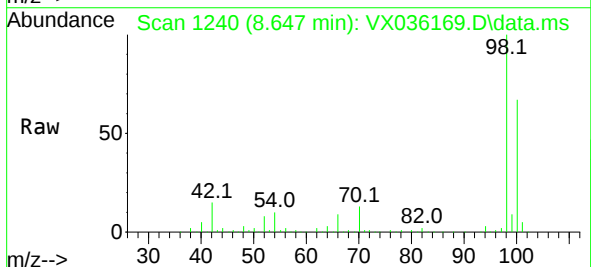
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

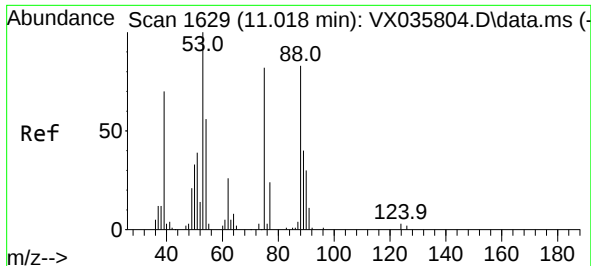
Tgt Ion: 91 Resp: 444441
Ion Ratio Lower Upper
91 100
92 58.9 46.5 69.7



#63
Toluene-d8
Concen: 28.999 ug/l
RT: 8.647 min Scan# 1240
Delta R.T. 0.000 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

Tgt Ion: 98 Resp: 244921
Ion Ratio Lower Upper
98 100
100 66.2 52.1 78.1

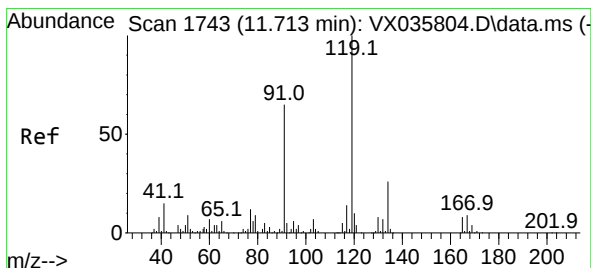
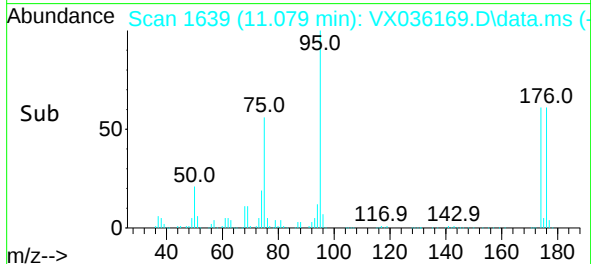
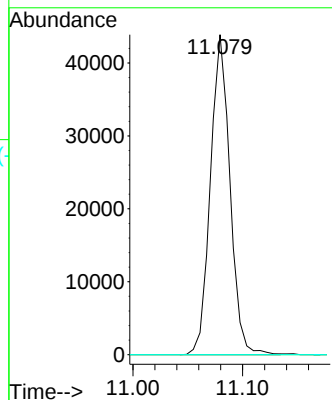
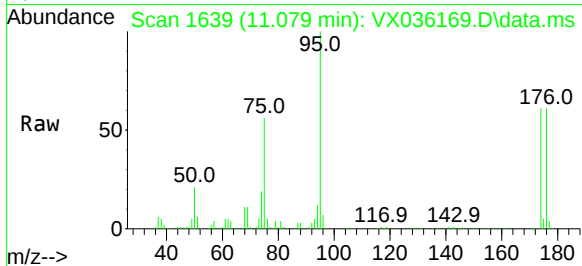




#77
t-1,4-Dichloro-2-butene
Concen: 54.890 ug/l
RT: 11.079 min Scan# 1792
Delta R.T. 0.061 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

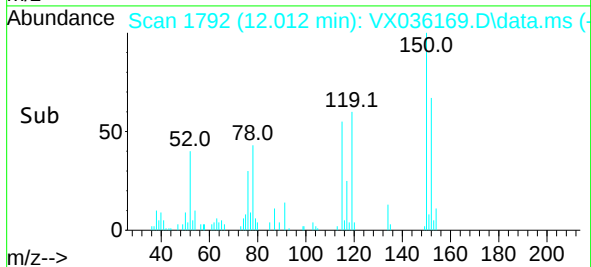
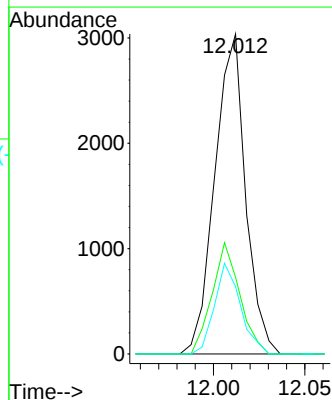
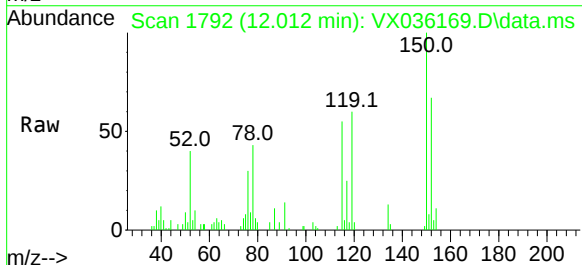
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

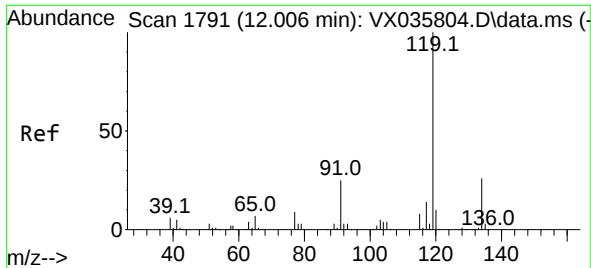
Tgt Ion: 75 Resp: 54315
Ion Ratio Lower Upper
75 100
53 0.0 58.2 174.6#
89 0.0 20.6 61.8#



#79
tert-butylbenzene
Concen: 0.407 ug/l
RT: 12.012 min Scan# 1792
Delta R.T. 0.299 min
Lab File: VX036169.D
Acq: 15 Jun 2023 15:05

Tgt Ion: 119 Resp: 3549
Ion Ratio Lower Upper
119 100
91 31.5 0.0 122.4
134 24.0 0.0 49.2





#82
 p-Isopropyltoluene
 Concen: 0.388 ug/l
 RT: 12.012 min Scan# 11
 Delta R.T. 0.006 min
 Lab File: VX036169.D
 Acq: 15 Jun 2023 15:05

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

Tgt Ion:	119	Resp:	3549
Ion	Ratio	Lower	Upper
119	100		
134	24.0	0.0	52.2
91	31.5	0.0	51.0

