

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071523\
 Data File : VX036554.D
 Acq On : 14 Jul 2023 11:24
 Operator : JC/MD
 Sample : 03593-01DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Jul 17 01:28:16 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)

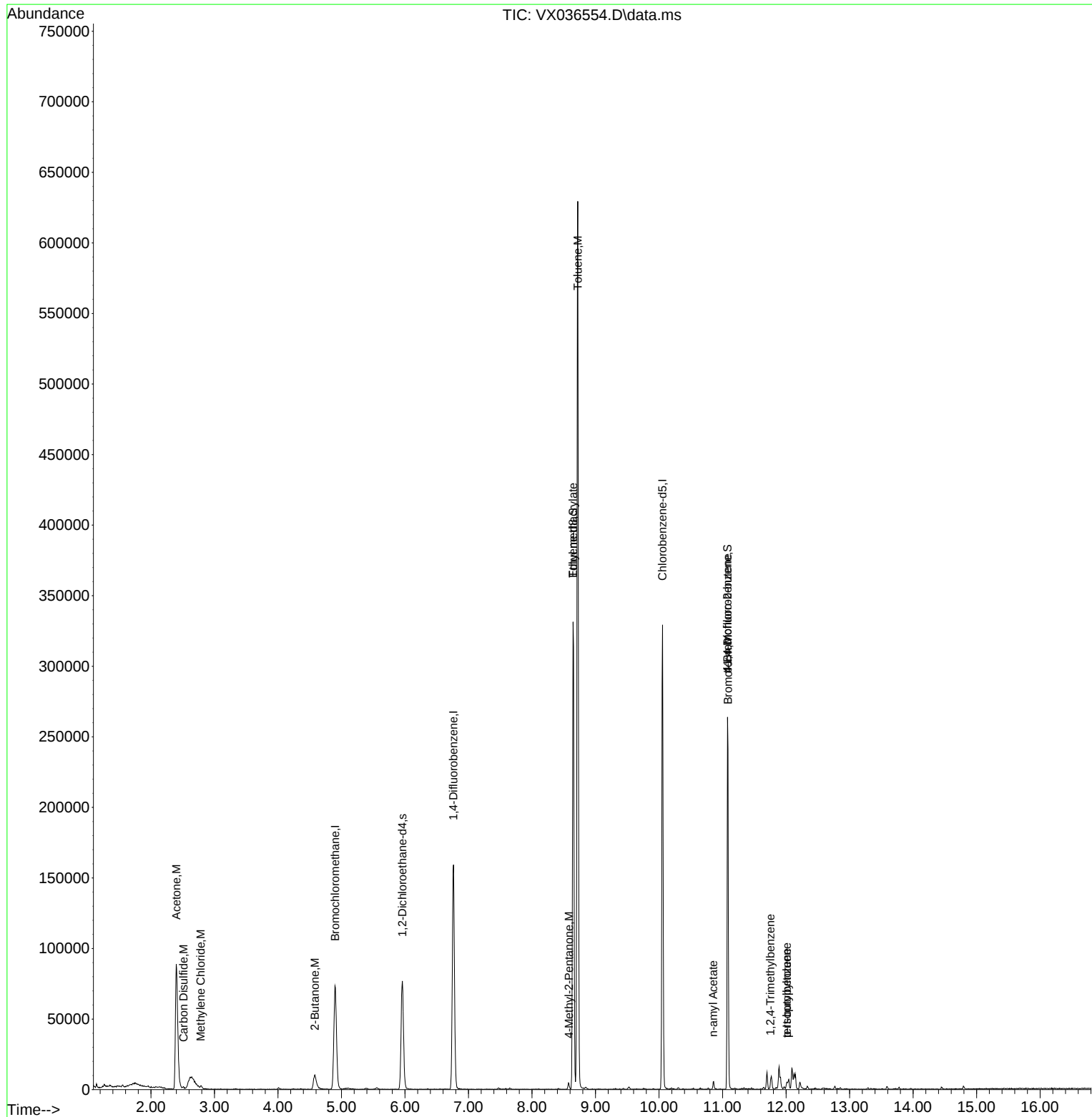
Internal Standards						
1) Bromochloromethane	4.897	128	29235	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	158389	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	146157	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	73714	30.380	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 101.267%			
60) 4-Bromofluorobenzene	11.079	95	68117	28.731	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 95.767%			
63) Toluene-d8	8.646	98	199477	29.659	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 98.867%			
Target Compounds						
					Qvalue	
15) Acetone	2.398	58	43156	135.232	ug/l	100
16) Carbon Disulfide	2.513	76	1399	0.337	ug/l	99
18) Methylene Chloride	2.782	84	577	0.280	ug/l #	79
30) 2-Butanone	4.580	43	13550	9.010	ug/l #	80
47) n-amyl Acetate	10.853	43	1000	0.253	ug/l #	15
51) Ethyl methacrylate	8.646	69	724	0.235	ug/l	94
56) Bromoform	11.085	173	598	0.434	ug/l #	1
58) 4-Methyl-2-Pentanone	8.579	43	2860	0.946	ug/l #	88
62) Toluene	8.720	91	399662	48.736	ug/l	99
77) t-1,4-Dichloro-2-butene	11.079	75	35258	36.963	ug/l #	7
79) tert-butylbenzene	12.012	119	1961	0.280	ug/l	62
80) 1,2,4-Trimethylbenzene	11.756	105	1507	0.206	ug/l	50
82) p-Isopropyltoluene	12.012	119	1961	0.267	ug/l	98

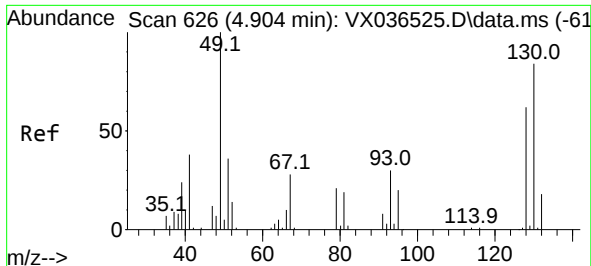
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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001-WILLETS-PT-BLVD(JUNE)DL

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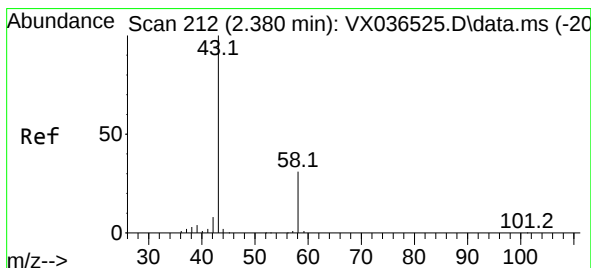
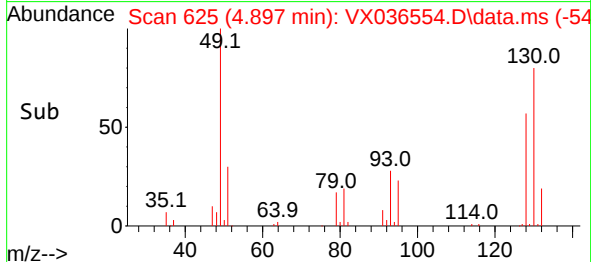
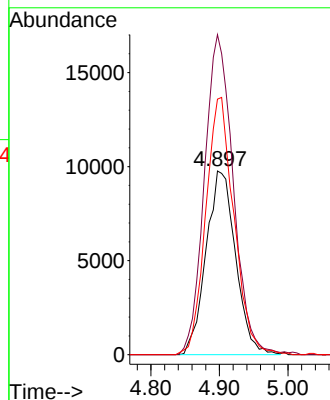
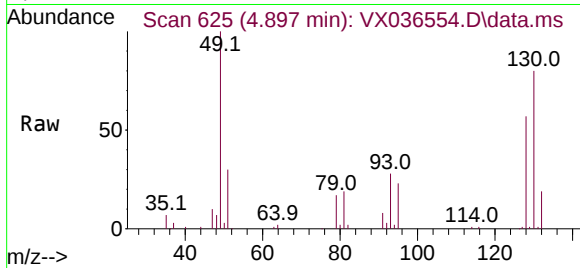




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.897 min Scan# 61
Delta R.T. -0.007 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

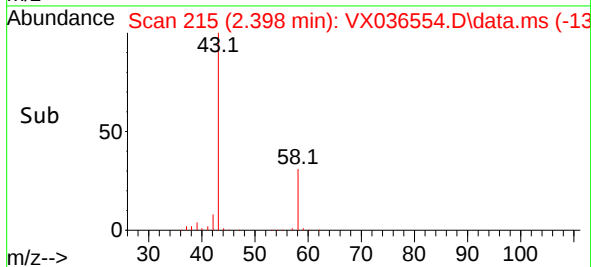
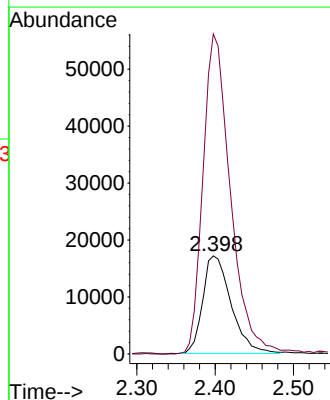
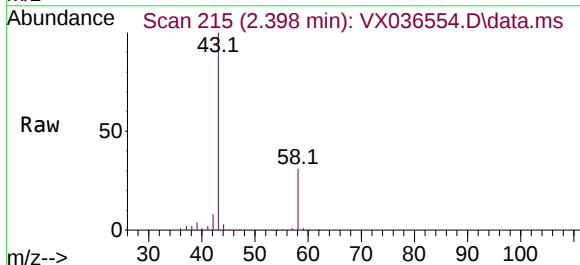
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

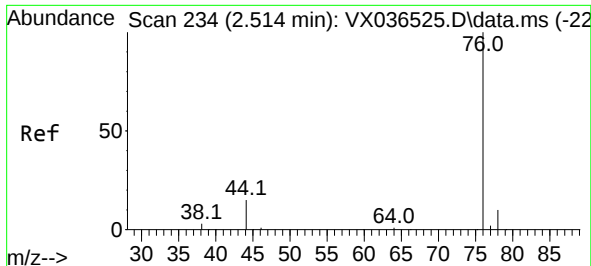
Tgt Ion:128 Resp: 29235
Ion Ratio Lower Upper
128 100
49 170.0 0.0 406.3
130 134.0 0.0 328.0



#15
Acetone
Concen: 135.232 ug/l
RT: 2.398 min Scan# 215
Delta R.T. 0.018 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

Tgt Ion: 58 Resp: 43156
Ion Ratio Lower Upper
58 100
43 326.7 261.0 391.4

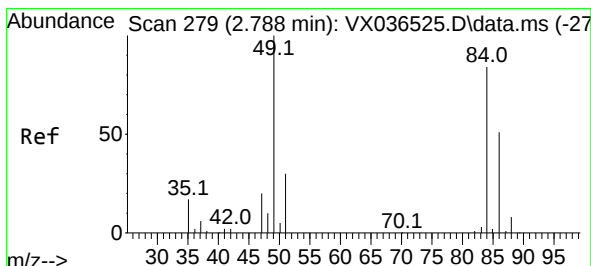
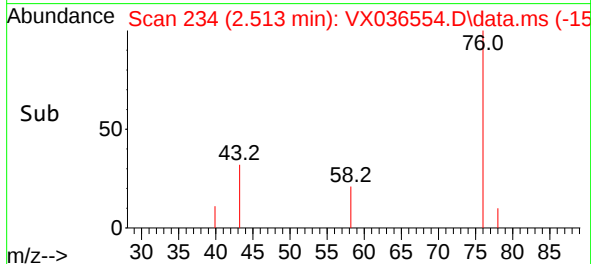
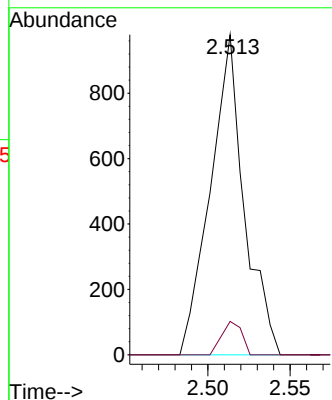
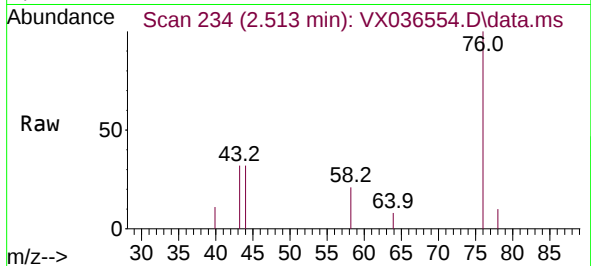




#16
Carbon Disulfide
Concen: 0.337 ug/l
RT: 2.513 min Scan# 21
Delta R.T. -0.000 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

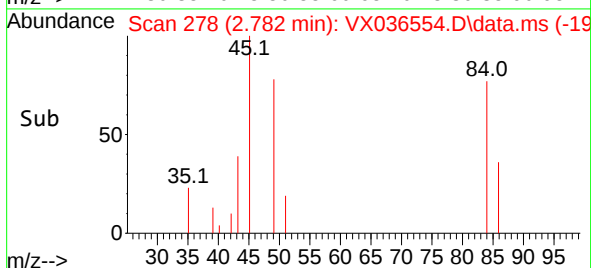
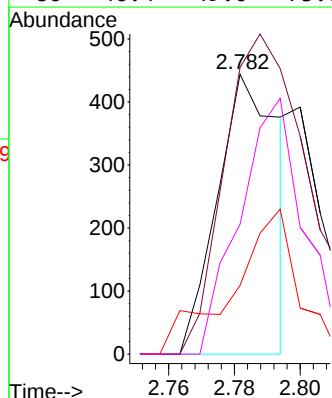
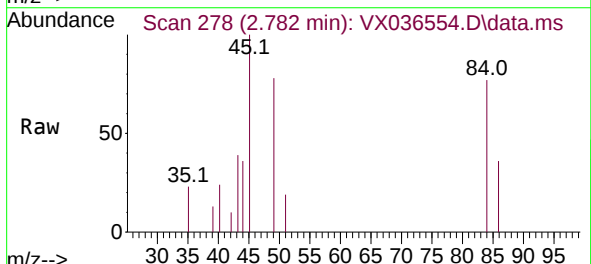
Instrument :
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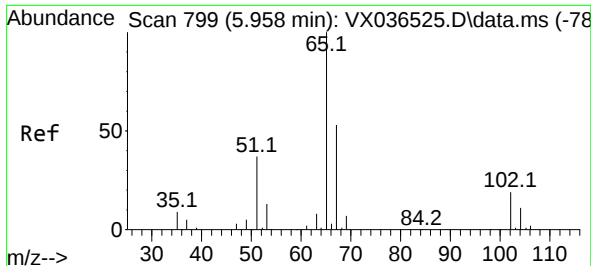
Tgt Ion: 76 Resp: 1399
Ion Ratio Lower Upper
76 100
78 10.4 8.0 12.0



#18
Methylene Chloride
Concen: 0.280 ug/l
RT: 2.782 min Scan# 278
Delta R.T. -0.006 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

Tgt Ion: 84 Resp: 577
Ion Ratio Lower Upper
84 100
49 102.5 95.4 143.0
51 9.0 28.3 42.5#
86 46.4 49.0 73.6#

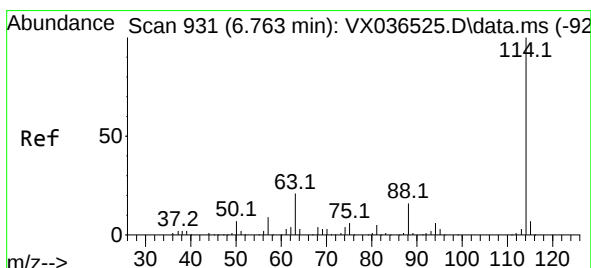
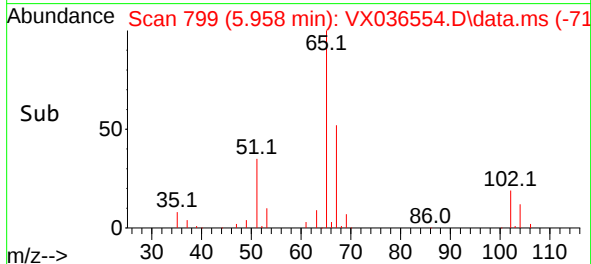
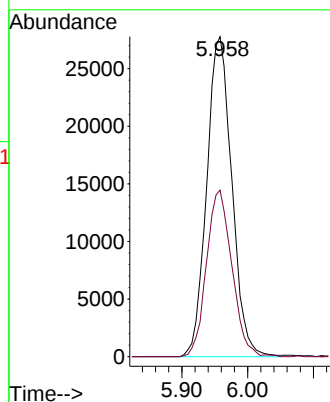
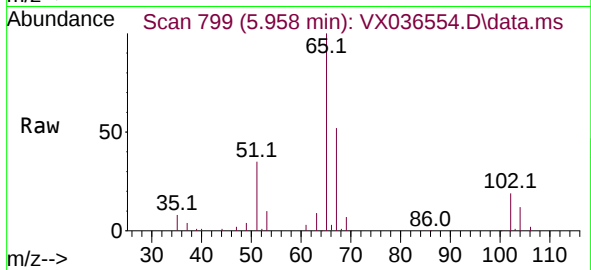




#27
 1,2-Dichloroethane-d4
 Concen: 30.380 ug/l
 RT: 5.958 min Scan# 799
 Delta R.T. -0.000 min
 Lab File: VX036554.D
 Acq: 14 Jul 2023 11:24

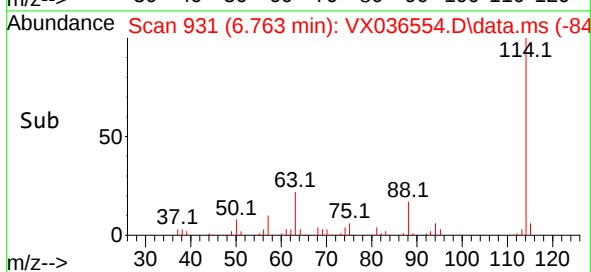
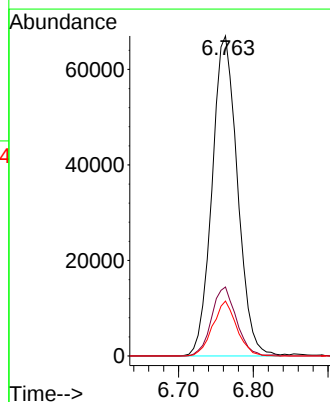
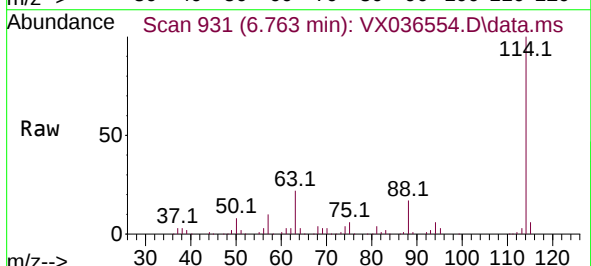
Instrument :
 MSVOA_X
 ClientSampleId :
 001-WILLETS-PT-BLVD(JUNE)DL

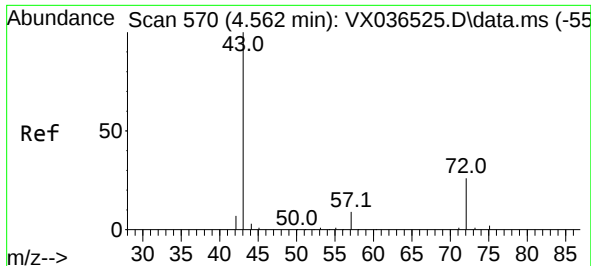
Tgt Ion: 65 Resp: 73714
 Ion Ratio Lower Upper
 65 100
 67 52.4 42.1 63.1



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 6.763 min Scan# 931
 Delta R.T. -0.000 min
 Lab File: VX036554.D
 Acq: 14 Jul 2023 11:24

Tgt Ion: 114 Resp: 158389
 Ion Ratio Lower Upper
 114 100
 63 20.9 16.6 24.8
 88 16.2 12.9 19.3

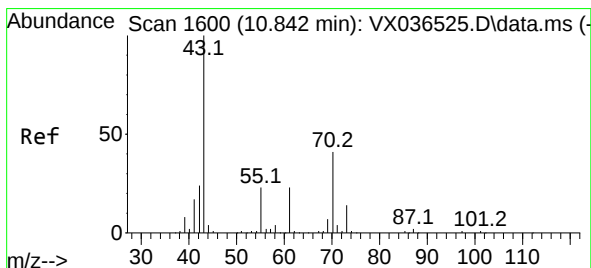
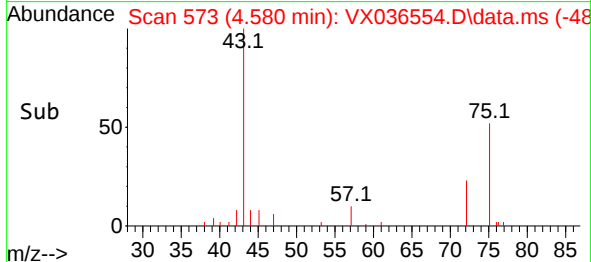
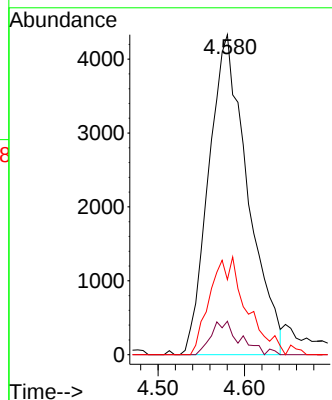
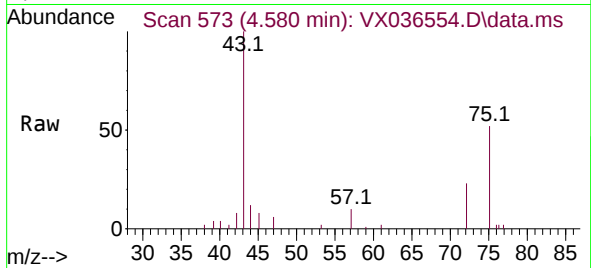




#30
2-Butanone
Concen: 9.010 ug/l
RT: 4.580 min Scan# 51
Delta R.T. 0.018 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

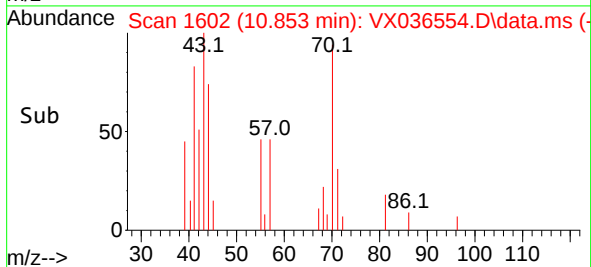
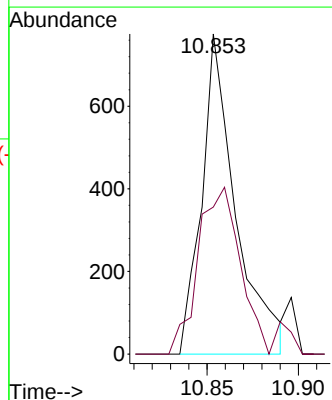
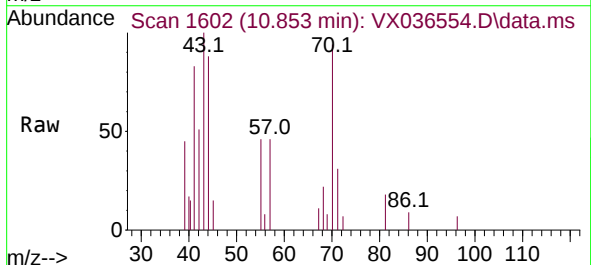
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ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

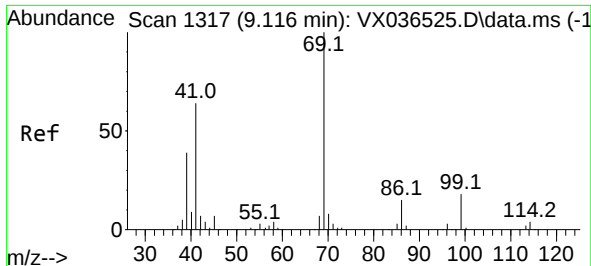
Tgt Ion: 43 Resp: 13550
Ion Ratio Lower Upper
43 100
57 5.8 6.4 9.6#
72 14.8 21.6 32.4#



#47
n-amy1 Acetate
Concen: 0.253 ug/l
RT: 10.853 min Scan# 1602
Delta R.T. 0.012 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

Tgt Ion: 43 Resp: 1000
Ion Ratio Lower Upper
43 100
55 64.5 18.6 28.0#

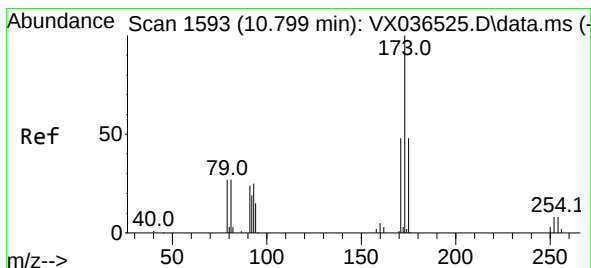
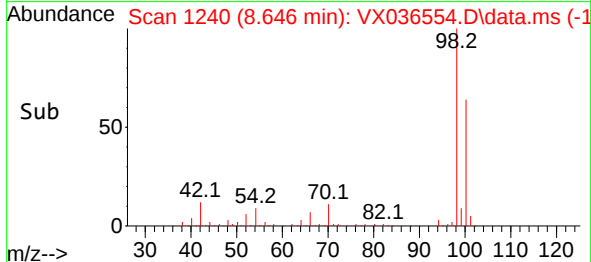
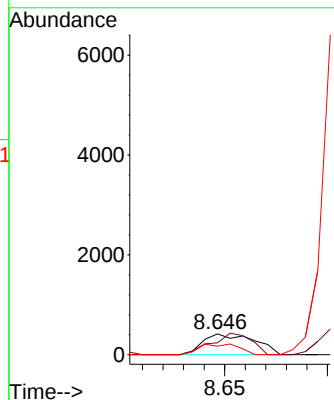
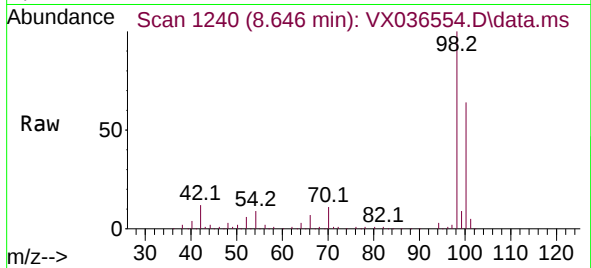




#51
Ethyl methacrylate
Concen: 0.235 ug/l
RT: 8.646 min Scan# 11
Delta R.T. -0.470 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

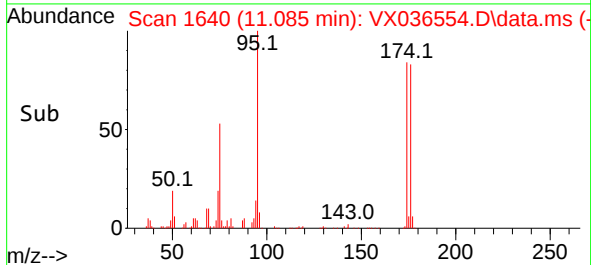
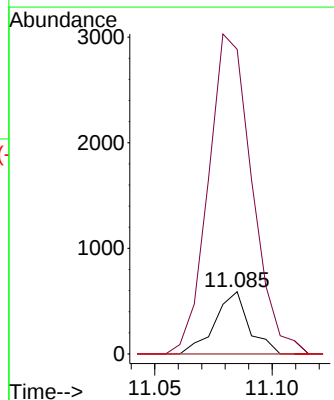
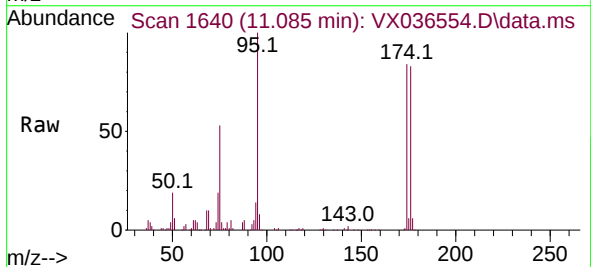
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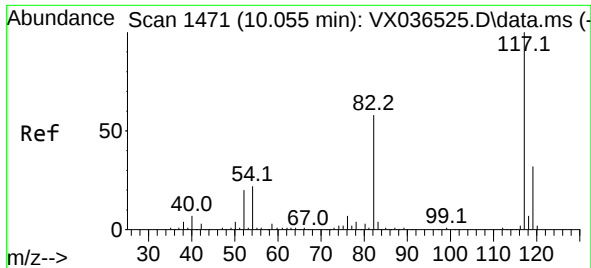
Tgt Ion:	69	Resp:	724
Ion	Ratio	Lower	Upper
69	100		
41	57.3	32.0	96.0
39	40.8	19.4	58.4



#56
Bromoform
Concen: 0.434 ug/l
RT: 11.085 min Scan# 1640
Delta R.T. 0.286 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

Tgt Ion:	173	Resp:	598
Ion	Ratio	Lower	Upper
173	100		
175	656.0	38.1	57.1#
254	0.0	6.7	10.1#

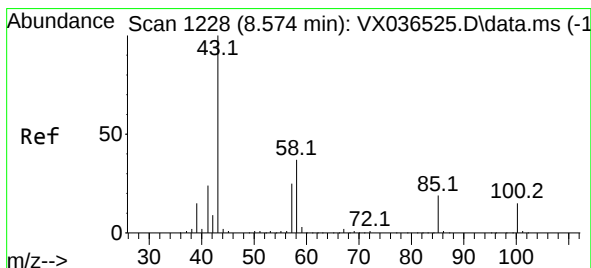
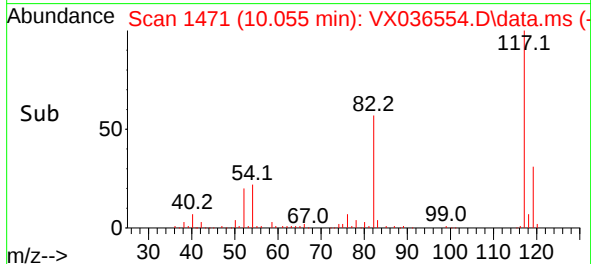
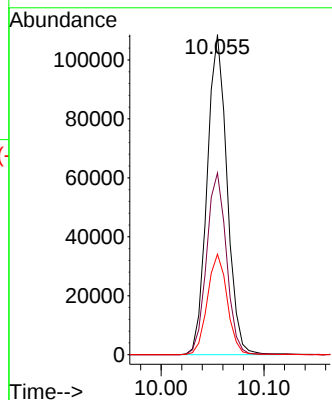
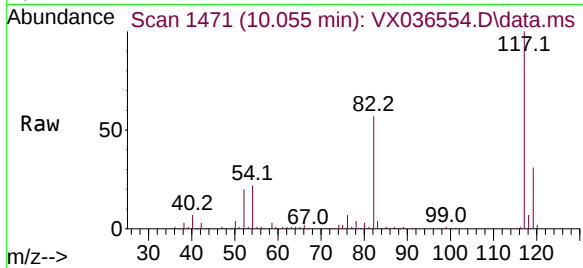




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

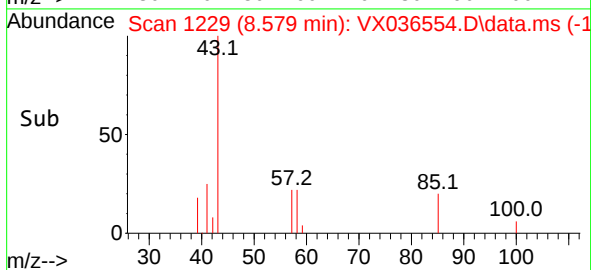
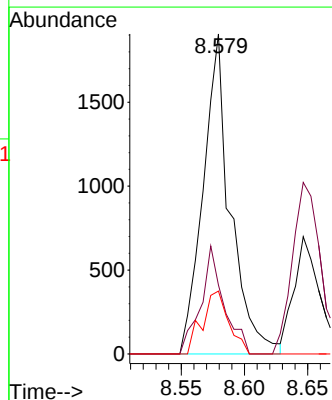
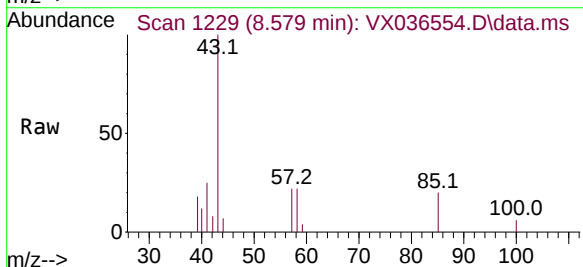
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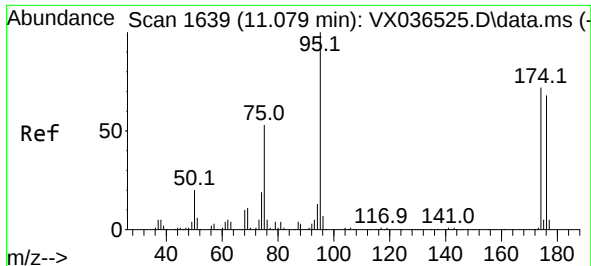
Tgt Ion:117 Resp: 146157
Ion Ratio Lower Upper
117 100
82 56.8 44.7 67.1
119 31.3 25.6 38.4



#58
4-Methyl-2-Pentanone
Concen: 0.946 ug/l
RT: 8.579 min Scan# 1229
Delta R.T. 0.006 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

Tgt Ion: 43 Resp: 2860
Ion Ratio Lower Upper
43 100
58 28.6 30.9 46.3#
85 19.1 14.4 21.6

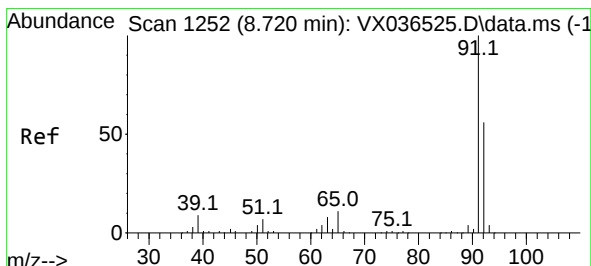
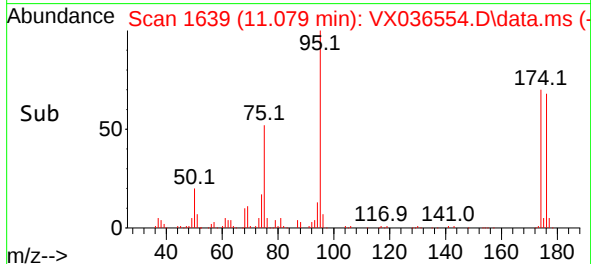
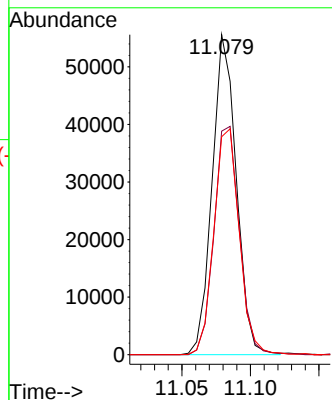
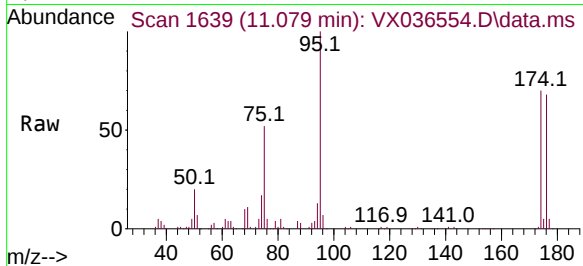




#60
4-Bromofluorobenzene
Concen: 28.731 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

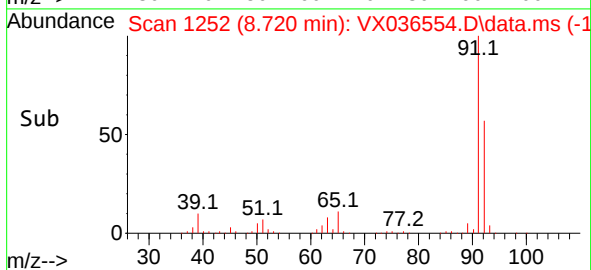
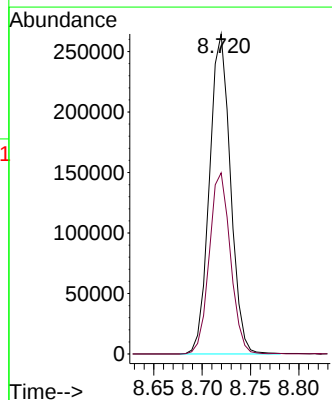
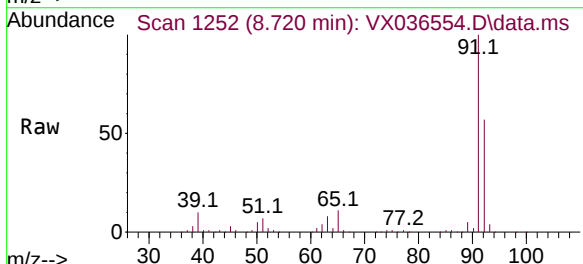
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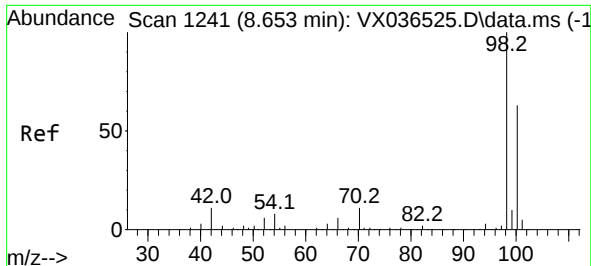
Tgt Ion: 95 Resp: 68117
Ion Ratio Lower Upper
95 100
174 74.8 60.5 90.7
176 74.3 58.2 87.4



#62
Toluene
Concen: 48.736 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

Tgt Ion: 91 Resp: 399662
Ion Ratio Lower Upper
91 100
92 57.0 44.9 67.3

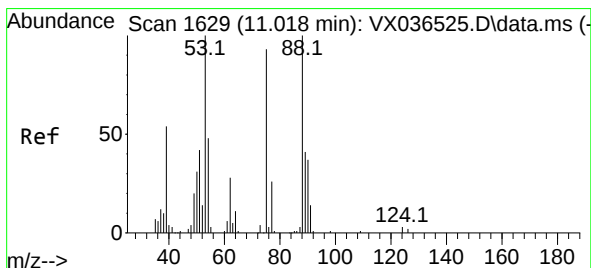
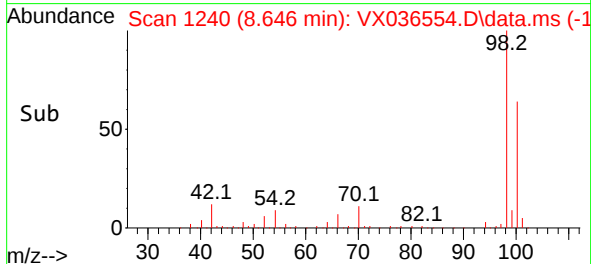
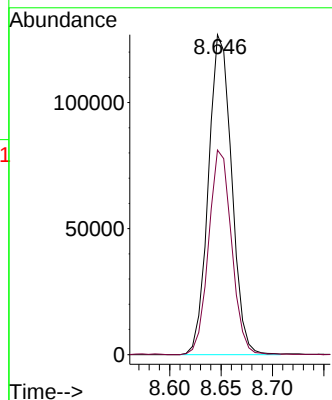
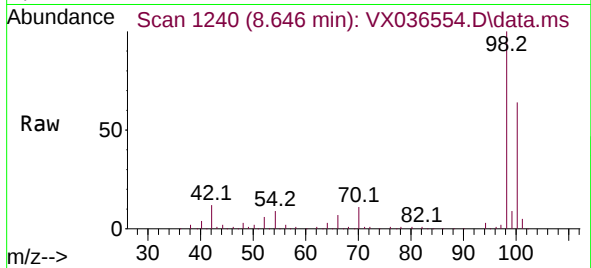




#63
Toluene-d8
Concen: 29.659 ug/l
RT: 8.646 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

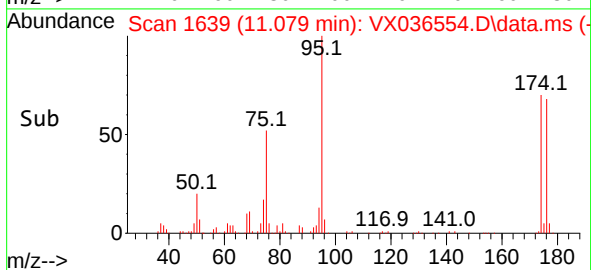
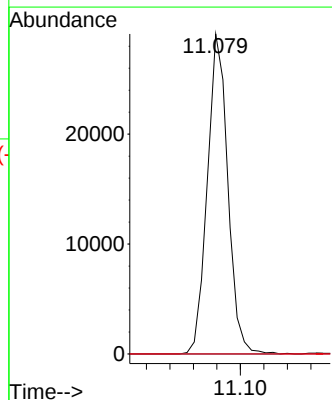
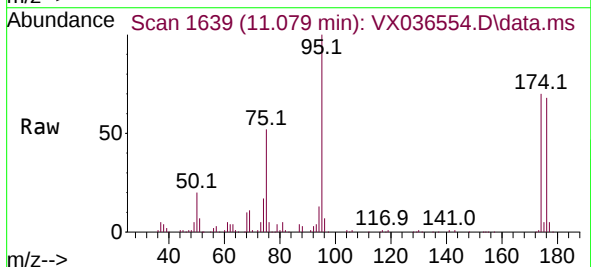
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

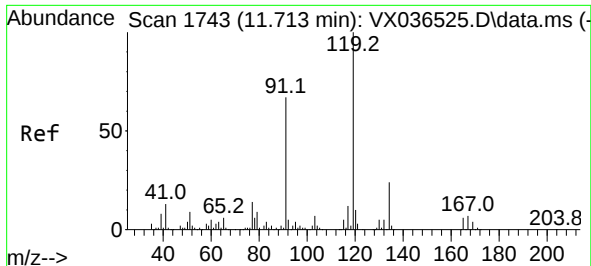
Tgt Ion: 98 Resp: 199477
Ion Ratio Lower Upper
98 100
100 63.2 51.6 77.4



#77
t-1,4-Dichloro-2-butene
Concen: 36.963 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

Tgt Ion: 75 Resp: 35258
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.1 66.1#

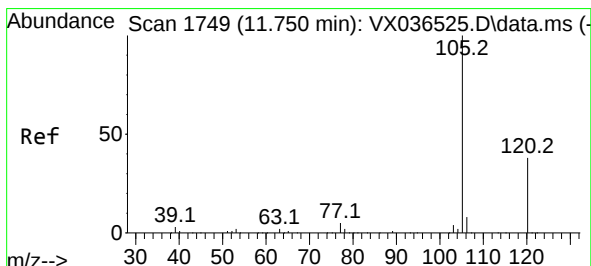
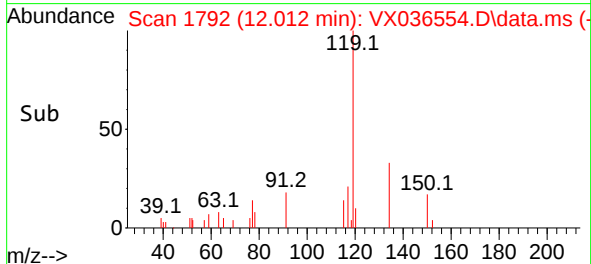
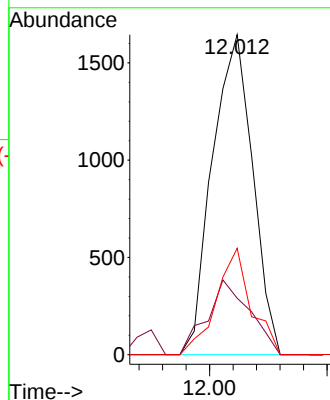
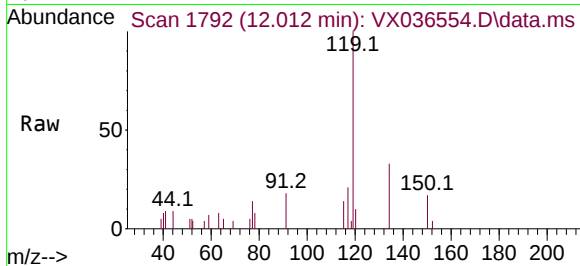




#79
tert-butylbenzene
Concen: 0.280 ug/l
RT: 12.012 min Scan# 11
Delta R.T. 0.298 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

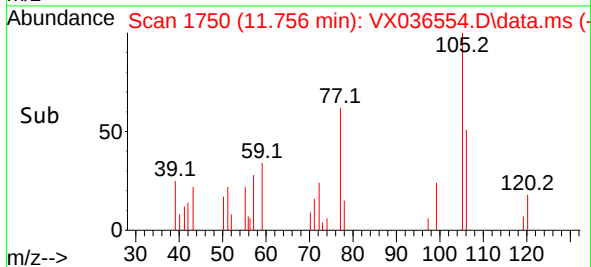
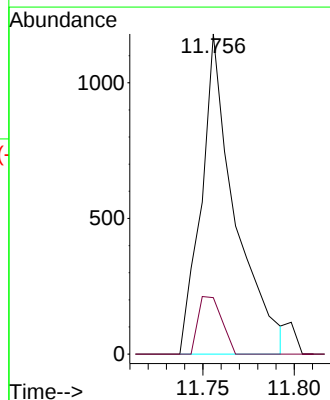
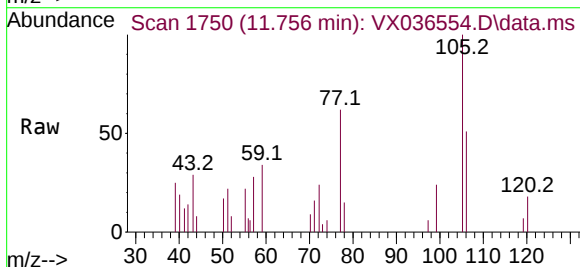
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

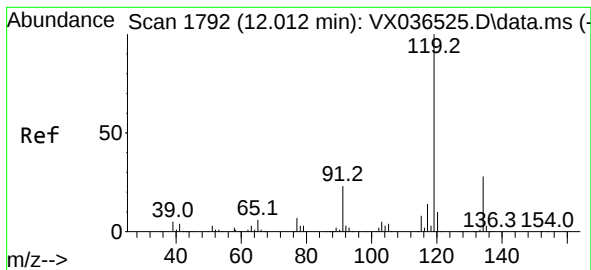
Tgt Ion:	119	Resp:	1961
Ion	Ratio	Lower	Upper
119	100		
91	24.8	0.0	124.4
134	28.7	0.0	47.2



#80
1,2,4-Trimethylbenzene
Concen: 0.206 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX036554.D
Acq: 14 Jul 2023 11:24

Tgt Ion:	105	Resp:	1507
Ion	Ratio	Lower	Upper
105	100		
120	12.7	0.0	90.2





#82
 p-Isopropyltoluene
 Concen: 0.267 ug/l
 RT: 12.012 min Scan# 11
 Delta R.T. -0.000 min
 Lab File: VX036554.D
 Acq: 14 Jul 2023 11:24

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

Tgt Ion	Ratio	Lower	Upper
119	100		
134	28.7	0.0	53.2
91	24.8	0.0	49.4

