

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071523\
 Data File : VX036556.D
 Acq On : 14 Jul 2023 12:12
 Operator : JC/MD
 Sample : 03596-01DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 10 Sample Multiplier: 1

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

Quant Time: Jul 17 01:29:00 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)

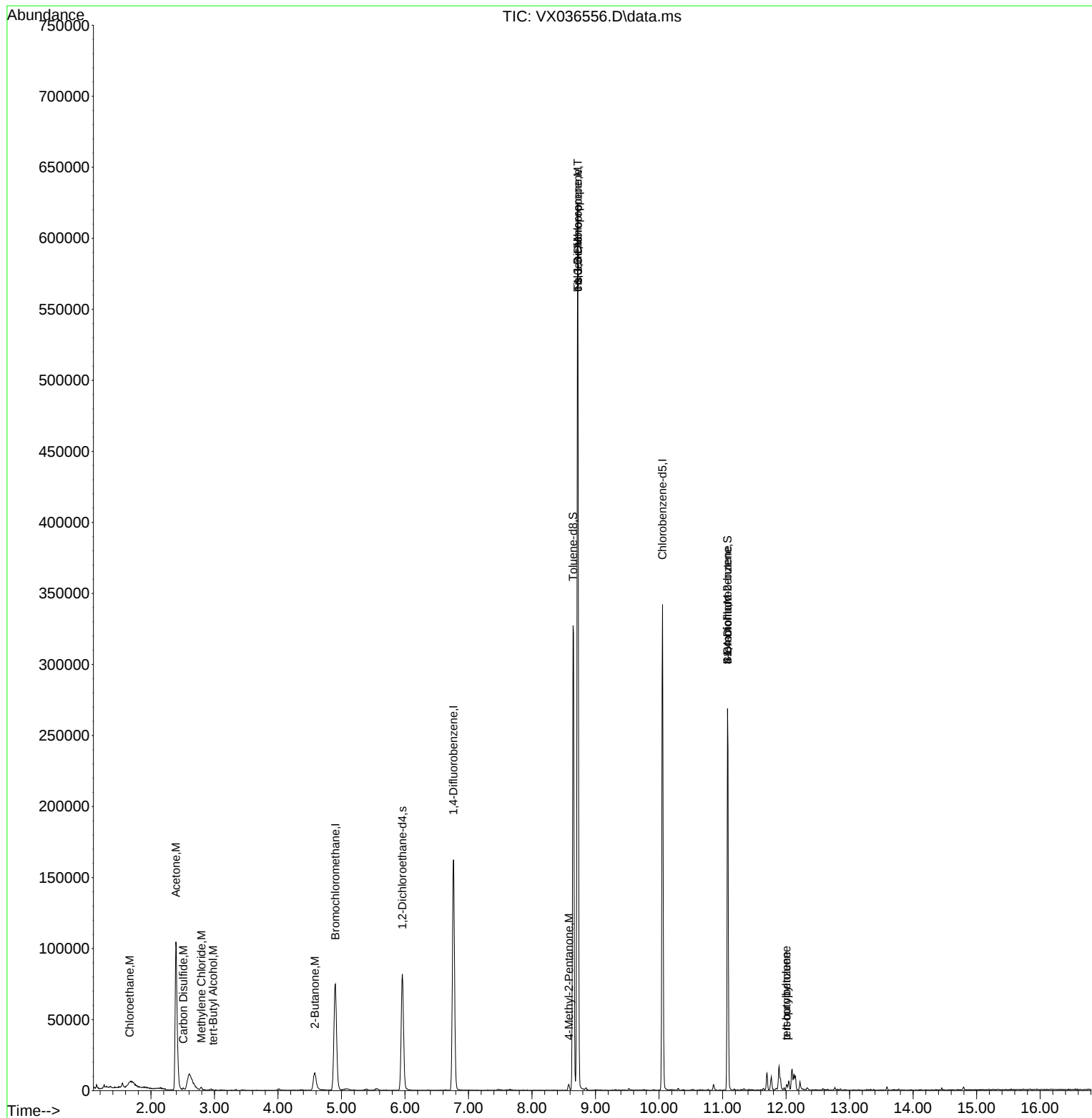
Internal Standards						
1) Bromochloromethane	4.903	128	31575	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.763	114	165105	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	148886	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.958	65	76455	29.174	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	97.233%
60) 4-Bromofluorobenzene	11.079	95	70688	29.269	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	97.567%
63) Toluene-d8	8.647	98	201298	29.382	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.933%
Target Compounds						
					Qvalue	
6) Chloroethane	1.666	64	450	0.266	ug/l #	46
15) Acetone	2.392	58	43083	124.998	ug/l	97
16) Carbon Disulfide	2.508	76	1656	0.369	ug/l #	73
18) Methylene Chloride	2.794	84	736	0.331	ug/l #	81
23) tert-Butyl Alcohol	2.977	59	120	0.212	ug/l #	1
30) 2-Butanone	4.580	43	13504	8.614	ug/l #	80
48) t-1,3-Dichloropropene	8.720	75	2762	0.921	ug/l #	1
49) cis-1,3-Dichloropropene	8.720	75	2762	0.852	ug/l #	1
56) Bromoform	11.079	173	580	0.404	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	2724	0.885	ug/l	94
62) Toluene	8.720	91	388344	46.488	ug/l	98
77) t-1,4-Dichloro-2-butene	11.079	75	36303	37.361	ug/l #	7
79) tert-butylbenzene	12.006	119	2012	0.282	ug/l	60
82) p-Isopropyltoluene	12.006	119	2012	0.269	ug/l	92

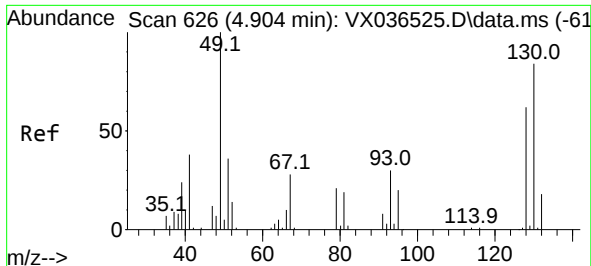
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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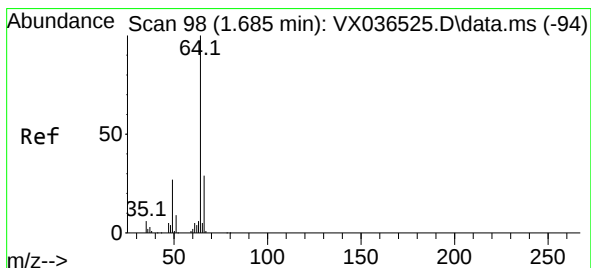
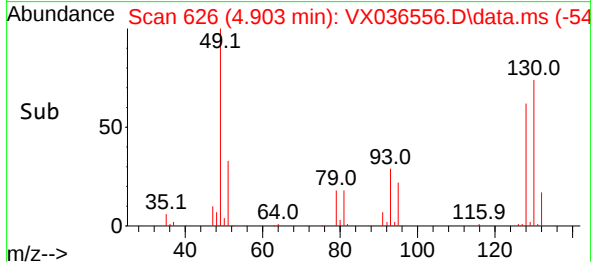
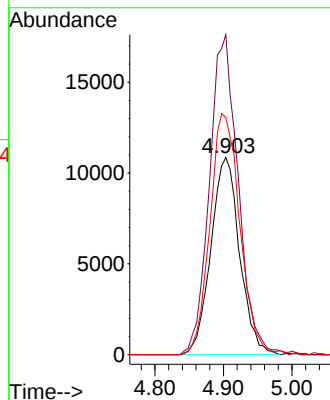
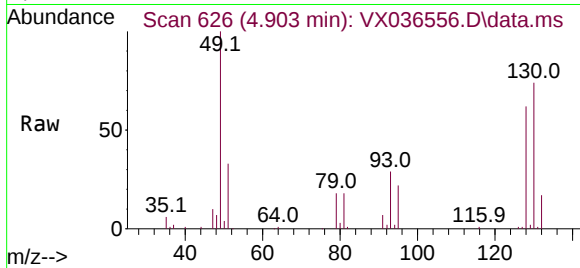




#1
 Bromochloromethane
 Concen: 30.000 ug/l
 RT: 4.903 min Scan# 61
 Delta R.T. -0.001 min
 Lab File: VX036556.D
 Acq: 14 Jul 2023 12:12

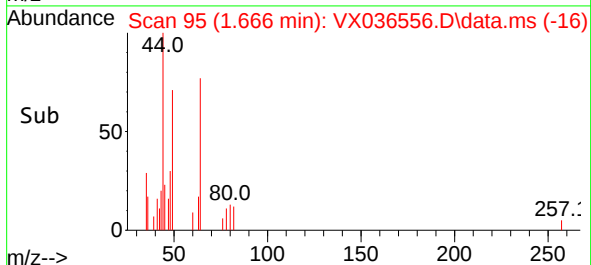
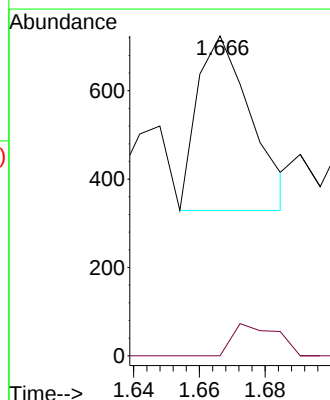
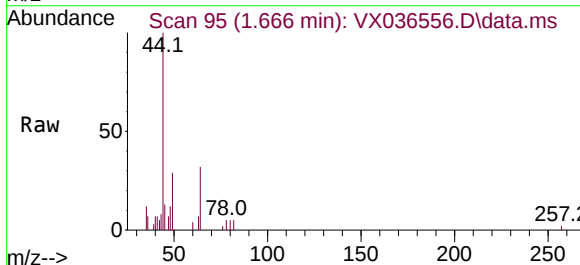
Instrument : MSVOA_X
 ClientSampleId : 001-WILLETS-PT-BLVD(JULY)DL

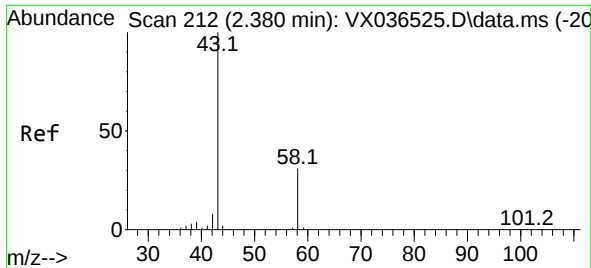
Tgt Ion:128 Resp: 31575
 Ion Ratio Lower Upper
 128 100
 49 162.1 0.0 406.3
 130 126.7 0.0 328.0



#6
 Chloroethane
 Concen: 0.266 ug/l
 RT: 1.666 min Scan# 95
 Delta R.T. -0.018 min
 Lab File: VX036556.D
 Acq: 14 Jul 2023 12:12

Tgt Ion: 64 Resp: 450
 Ion Ratio Lower Upper
 64 100
 66 0.0 23.1 34.7#





#15

Acetone

Concen: 124.998 ug/l

RT: 2.392 min Scan# 21

Delta R.T. 0.012 min

Lab File: VX036556.D

Acq: 14 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

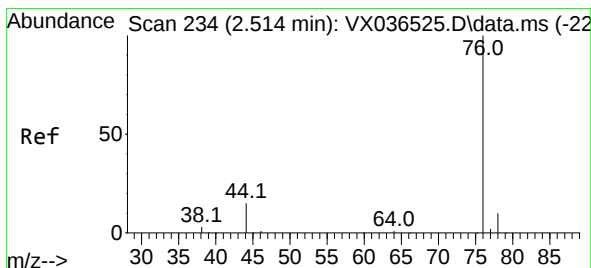
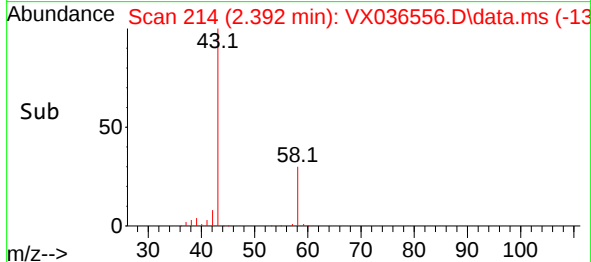
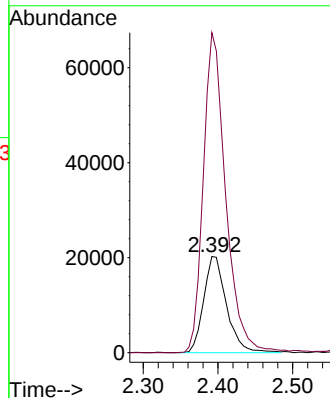
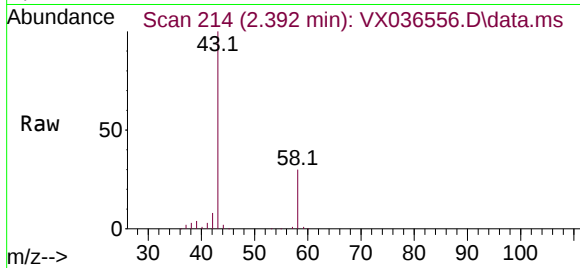
001-WILLETS-PT-BLVD(JULY)DL

Tgt Ion: 58 Resp: 43083

Ion Ratio Lower Upper

58 100

43 332.2 261.0 391.4



#16

Carbon Disulfide

Concen: 0.369 ug/l

RT: 2.508 min Scan# 233

Delta R.T. -0.006 min

Lab File: VX036556.D

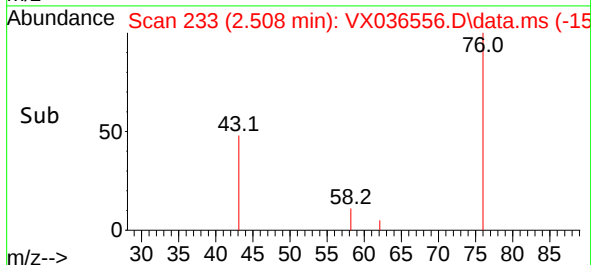
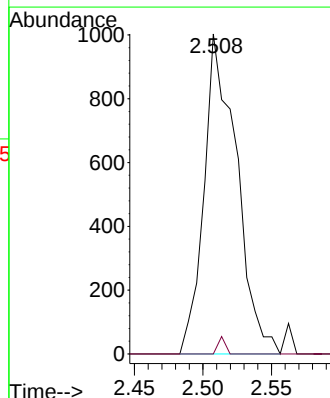
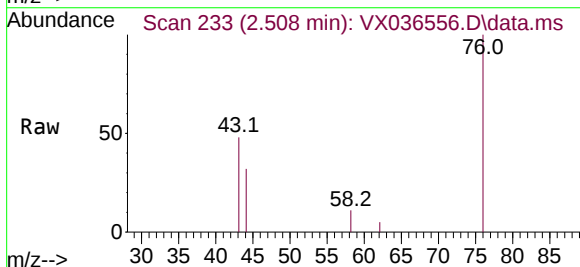
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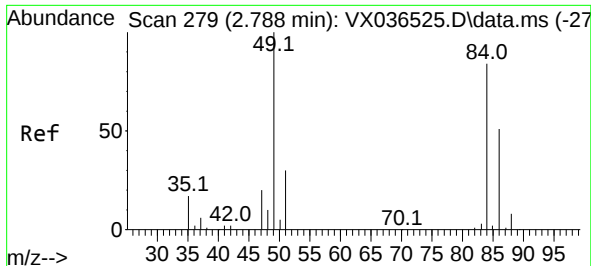
Tgt Ion: 76 Resp: 1656

Ion Ratio Lower Upper

76 100

78 0.0 8.0 12.0#

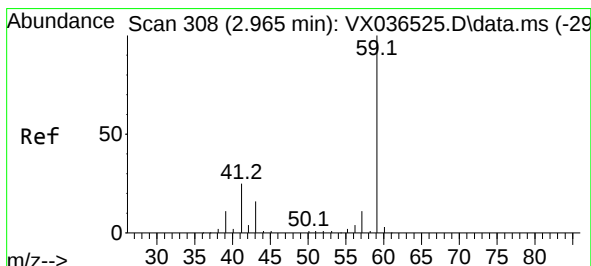
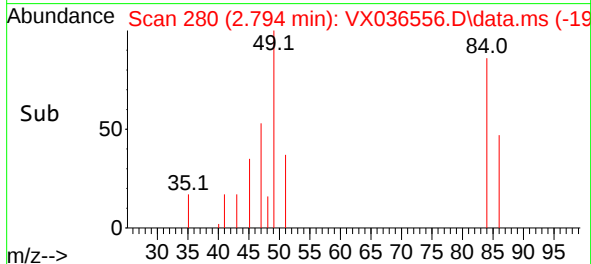
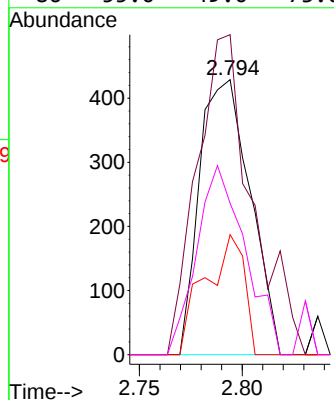
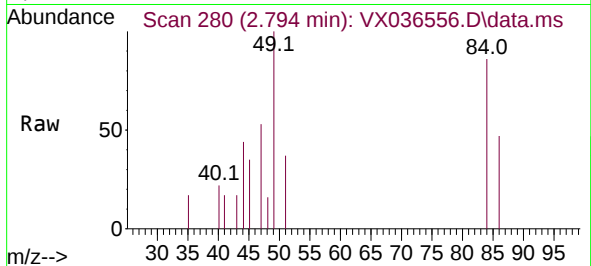




#18
Methylene Chloride
Concen: 0.331 ug/l
RT: 2.794 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX036556.D
Acq: 14 Jul 2023 12:12

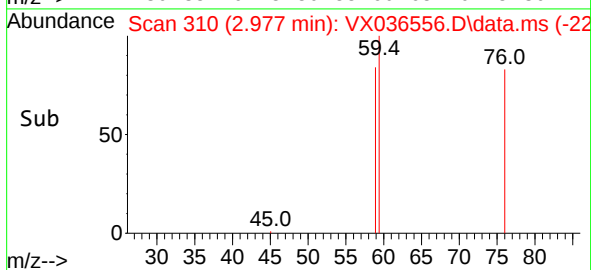
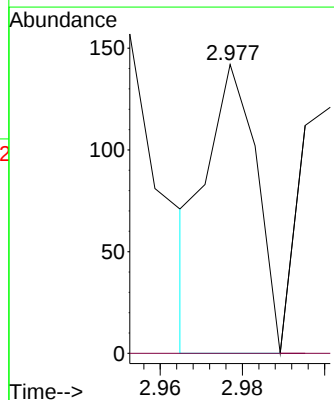
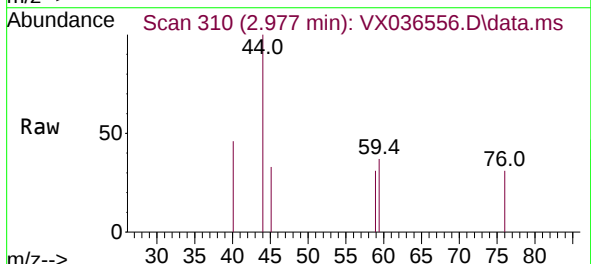
Instrument : MSVOA_X
ClientSampleId : 001-WILLETS-PT-BLVD(JULY)DL

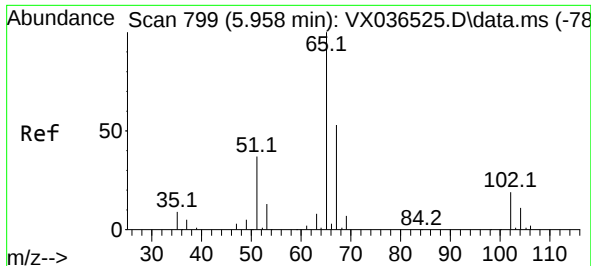
Tgt Ion: 84	Resp: 736
Ion Ratio	Lower Upper
84 100	
49 90.7	95.4 143.0#
51 43.6	28.3 42.5#
86 55.0	49.0 73.6



#23
tert-Butyl Alcohol
Concen: 0.212 ug/l
RT: 2.977 min Scan# 310
Delta R.T. 0.012 min
Lab File: VX036556.D
Acq: 14 Jul 2023 12:12

Tgt Ion: 59	Resp: 120		
Ion Ratio	Lower	Upper	
59 100			
52 0.0	142.6	213.8#	





#27

1,2-Dichloroethane-d4

Concen: 29.174 ug/l

RT: 5.958 min Scan# 799

Delta R.T. -0.000 min

Lab File: VX036556.D

Acq: 14 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

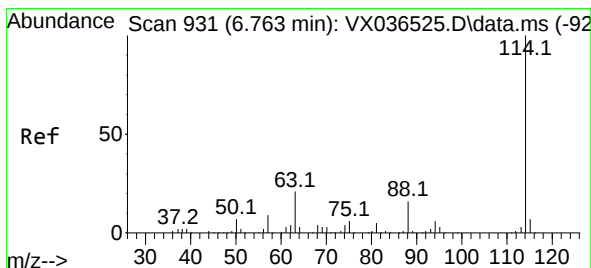
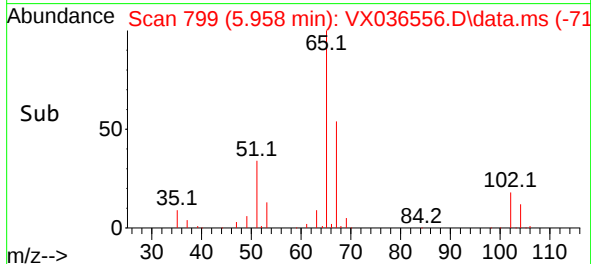
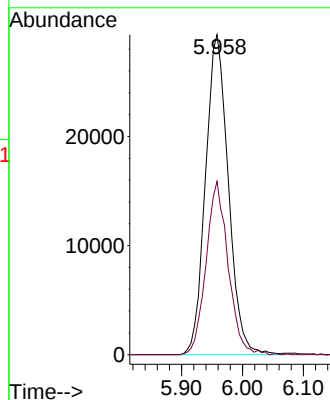
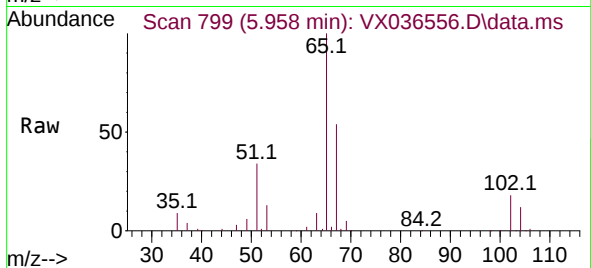
001-WILLETS-PT-BLVD(JULY)DL

Tgt Ion: 65 Resp: 76455

Ion Ratio Lower Upper

65 100

67 52.2 42.1 63.1



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.763 min Scan# 931

Delta R.T. -0.000 min

Lab File: VX036556.D

Acq: 14 Jul 2023 12:12

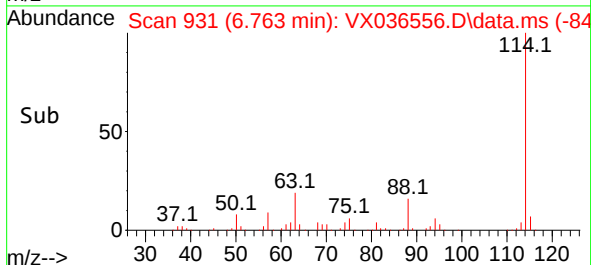
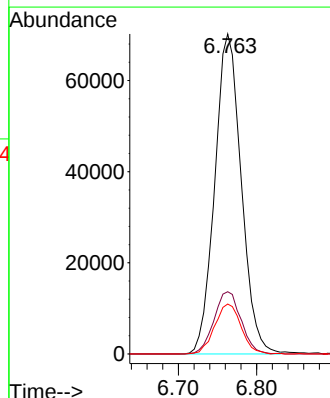
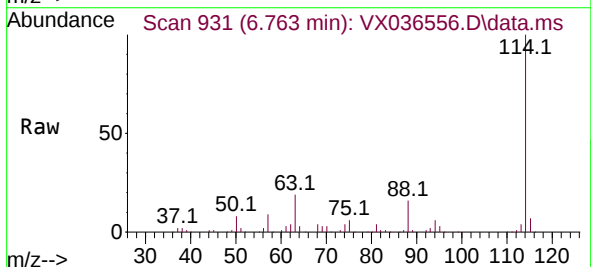
Tgt Ion: 114 Resp: 165105

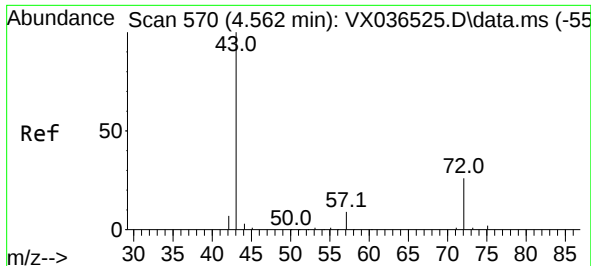
Ion Ratio Lower Upper

114 100

63 19.9 16.6 24.8

88 15.5 12.9 19.3

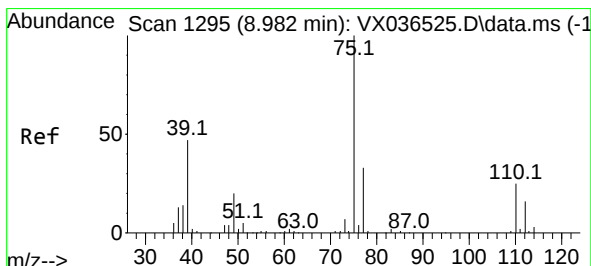
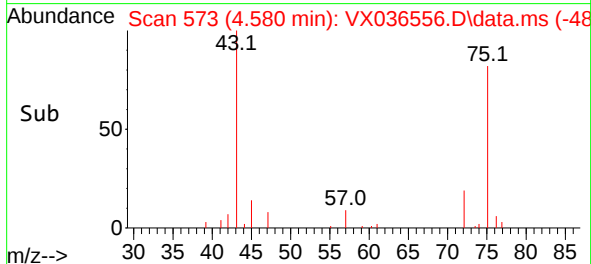
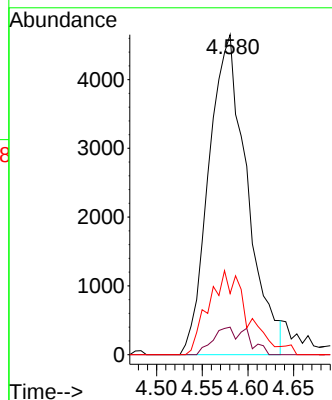
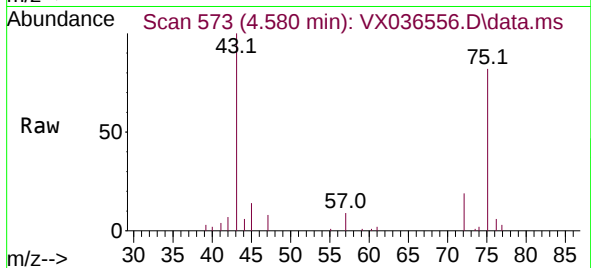




#30
2-Butanone
Concen: 8.614 ug/l
RT: 4.580 min Scan# 51
Delta R.T. 0.018 min
Lab File: VX036556.D
Acq: 14 Jul 2023 12:12

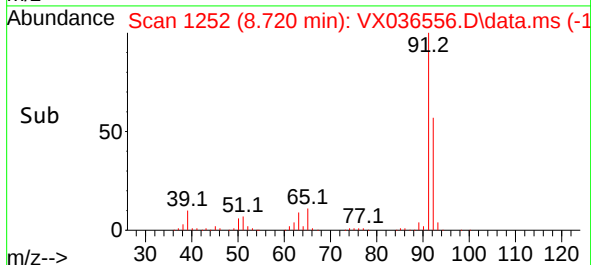
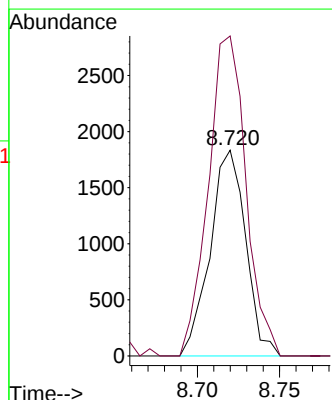
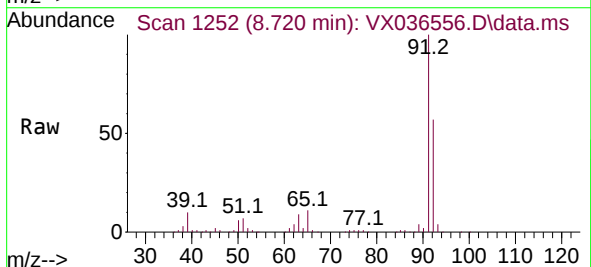
Instrument :
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001-WILLETS-PT-BLVD(JULY)DL

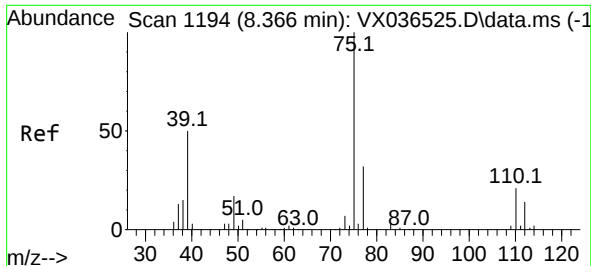
Tgt Ion: 43 Resp: 13504
Ion Ratio Lower Upper
43 100
57 4.9 6.4 9.6#
72 15.2 21.6 32.4#



#48
t-1,3-Dichloropropene
Concen: 0.921 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.262 min
Lab File: VX036556.D
Acq: 14 Jul 2023 12:12

Tgt Ion: 75 Resp: 2762
Ion Ratio Lower Upper
75 100
77 155.5 26.8 40.2#





#49

cis-1,3-Dichloropropene

Concen: 0.852 ug/l

RT: 8.720 min Scan# 11

Delta R.T. 0.353 min

Lab File: VX036556.D

Acq: 14 Jul 2023 12:12

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JULY)DL

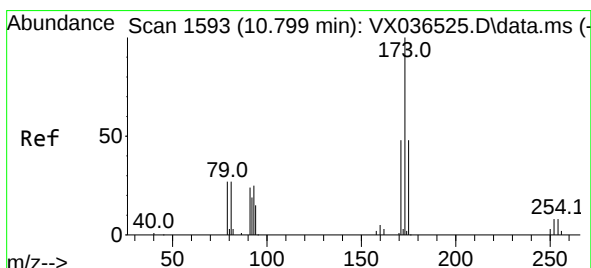
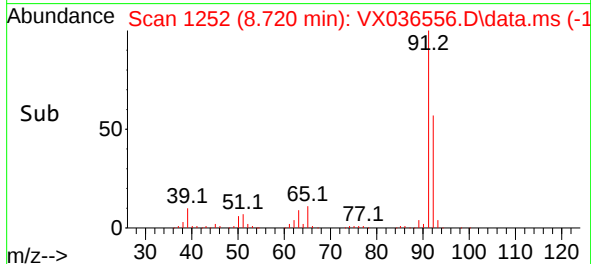
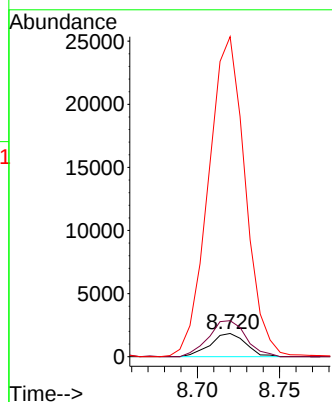
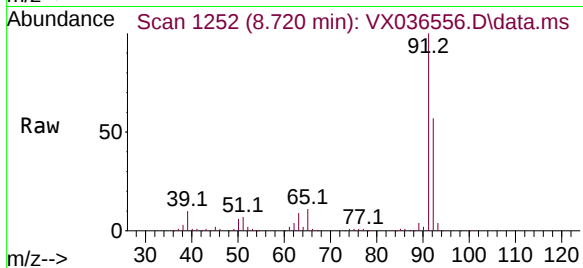
Tgt Ion: 75 Resp: 2762

Ion Ratio Lower Upper

75 100

77 155.5 25.4 38.2#

39 1363.5 40.2 60.4#



#56

Bromoform

Concen: 0.404 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.280 min

Lab File: VX036556.D

Acq: 14 Jul 2023 12:12

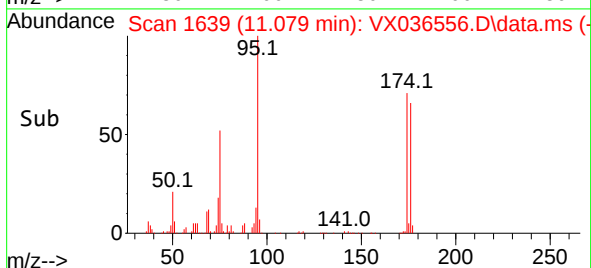
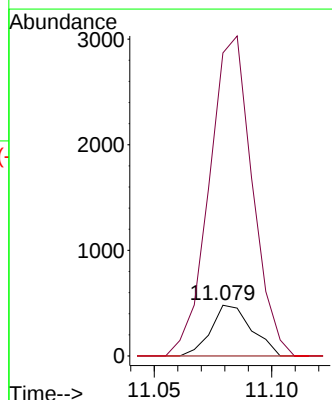
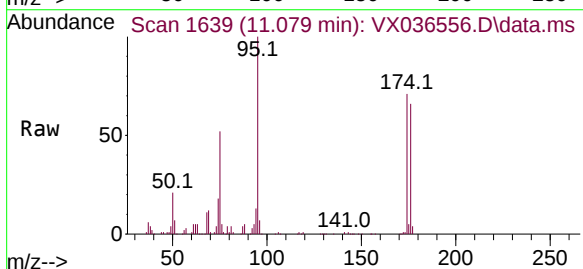
Tgt Ion:173 Resp: 580

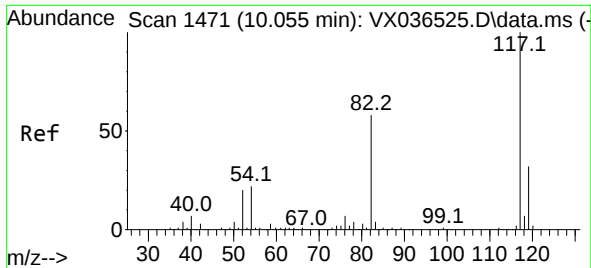
Ion Ratio Lower Upper

173 100

175 666.6 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: VX036556.D

Acq: 14 Jul 2023 12:12

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ClientSampleId :

001-WILLETS-PT-BLVD(JULY)DL

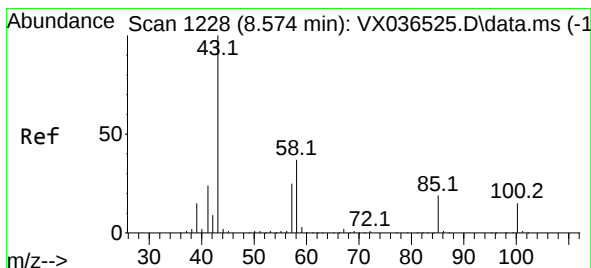
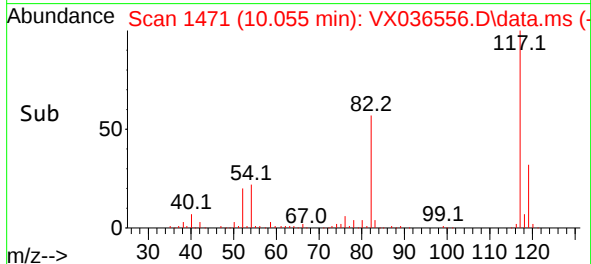
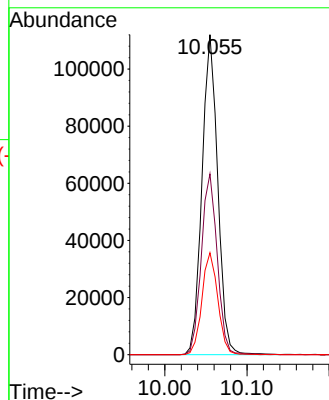
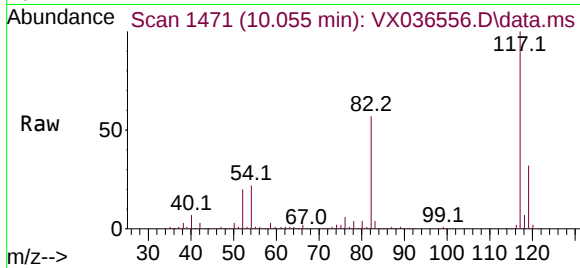
Tgt Ion:117 Resp: 148886

Ion Ratio Lower Upper

117 100

82 57.0 44.7 67.1

119 32.2 25.6 38.4



#58

4-Methyl-2-Pentanone

Concen: 0.885 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX036556.D

Acq: 14 Jul 2023 12:12

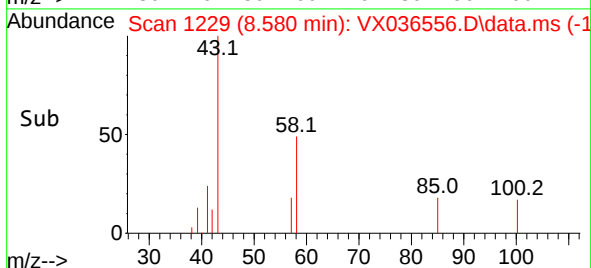
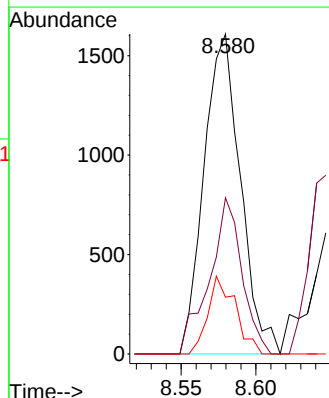
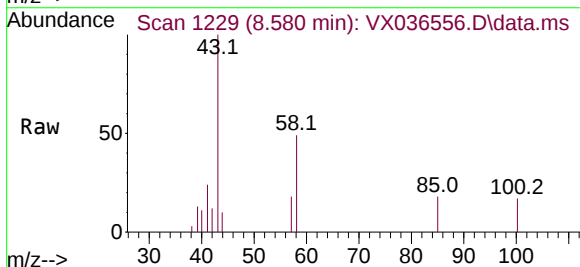
Tgt Ion: 43 Resp: 2724

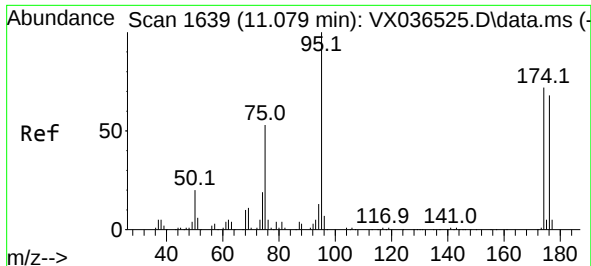
Ion Ratio Lower Upper

43 100

58 43.7 30.9 46.3

85 18.4 14.4 21.6

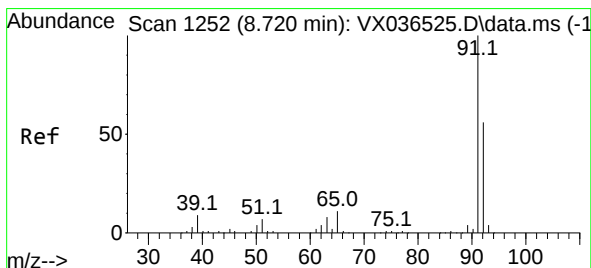
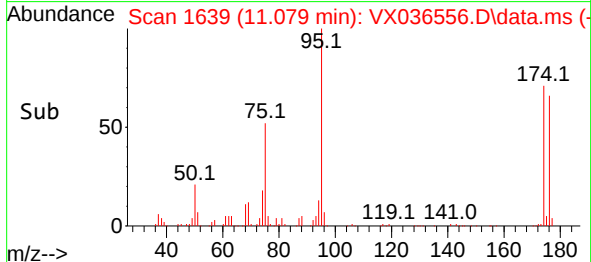
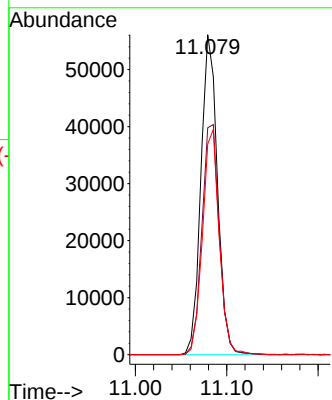
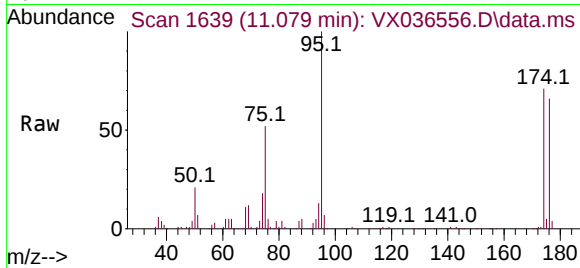




#60
4-Bromofluorobenzene
Concen: 29.269 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX036556.D
Acq: 14 Jul 2023 12:12

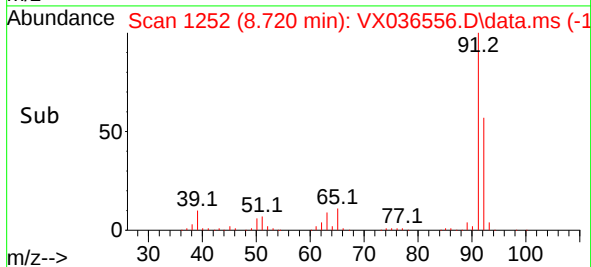
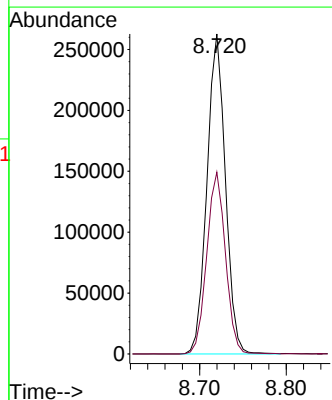
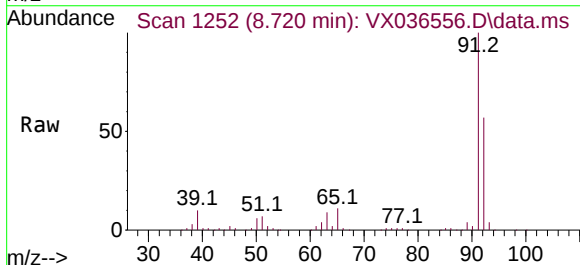
Instrument : MSVOA_X
ClientSampleId : 001-WILLETS-PT-BLVD(JULY)DL

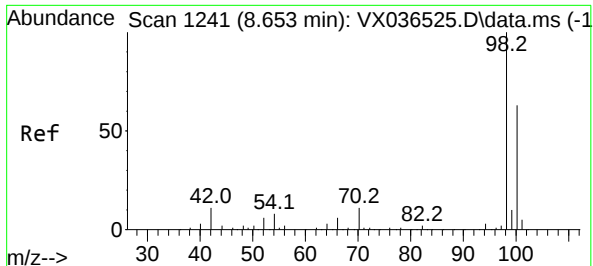
Tgt Ion: 95 Resp: 70688
Ion Ratio Lower Upper
95 100
174 75.2 60.5 90.7
176 70.2 58.2 87.4



#62
Toluene
Concen: 46.488 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. -0.000 min
Lab File: VX036556.D
Acq: 14 Jul 2023 12:12

Tgt Ion: 91 Resp: 388344
Ion Ratio Lower Upper
91 100
92 57.8 44.9 67.3

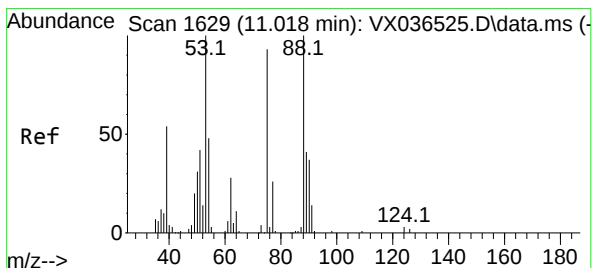
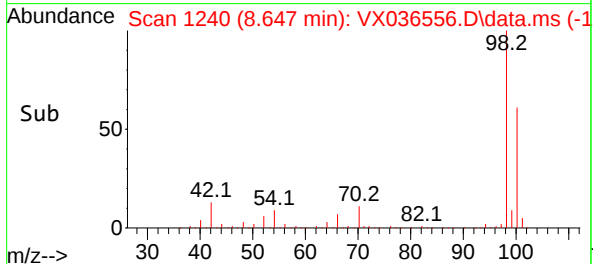
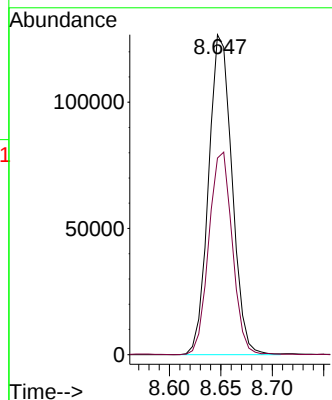
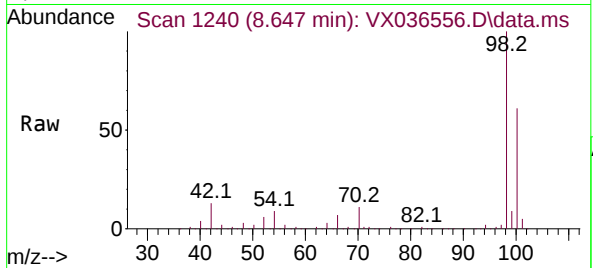




#63
Toluene-d8
Concen: 29.382 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.006 min
Lab File: VX036556.D
Acq: 14 Jul 2023 12:12

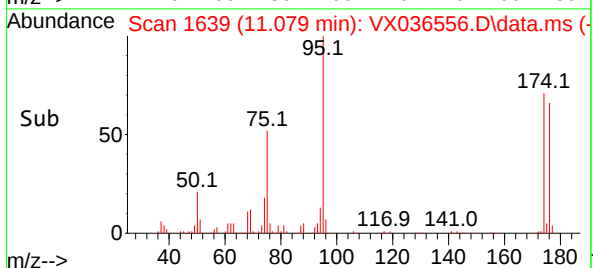
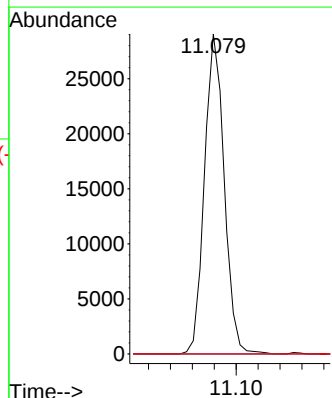
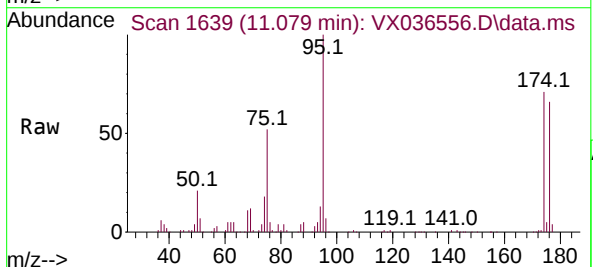
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)DL

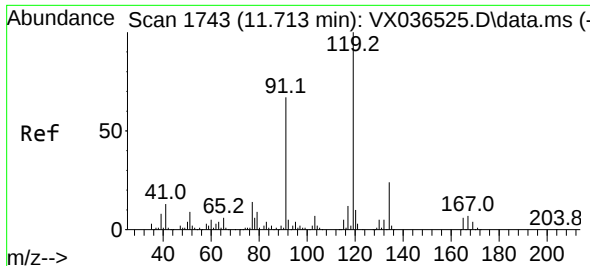
Tgt Ion: 98 Resp: 201298
Ion Ratio Lower Upper
98 100
100 63.3 51.6 77.4



#77
t-1,4-Dichloro-2-butene
Concen: 37.361 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX036556.D
Acq: 14 Jul 2023 12:12

Tgt Ion: 75 Resp: 36303
Ion Ratio Lower Upper
75 100
53 0.0 53.9 161.7#
89 0.0 22.1 66.1#





#79

tert-butylbenzene

Concen: 0.282 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. 0.293 min

Lab File: VX036556.D

Acq: 14 Jul 2023 12:12

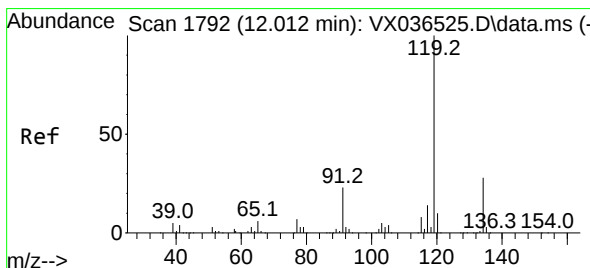
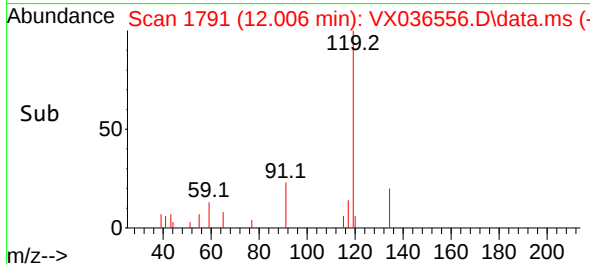
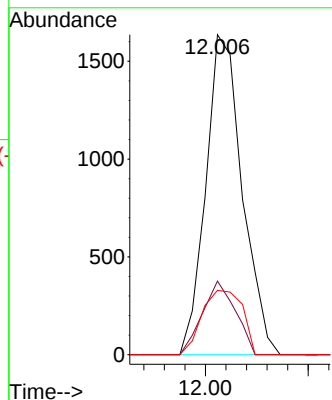
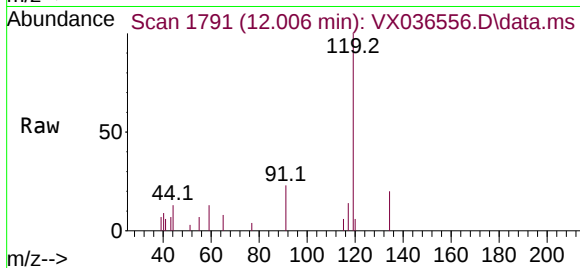
Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(JULY)DL

Tgt Ion:119	Resp:	2012
Ion Ratio	Lower	Upper
119	100	
91	20.8	0.0 124.4
134	22.3	0.0 47.2



#82

p-Isopropyltoluene

Concen: 0.269 ug/l

RT: 12.006 min Scan# 1791

Delta R.T. -0.006 min

Lab File: VX036556.D

Acq: 14 Jul 2023 12:12

Tgt Ion:119	Resp:	2012
Ion Ratio	Lower	Upper
119	100	
134	22.3	0.0 53.2
91	20.8	0.0 49.4

