

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX031425\
 Data File : VX045291.D
 Acq On : 14 Mar 2025 12:59
 Operator : JC/MD
 Sample : Q1495-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

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

Quant Time: Mar 15 03:58:25 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Feb 22 01:06:36 2025
 Response via : Initial Calibration

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

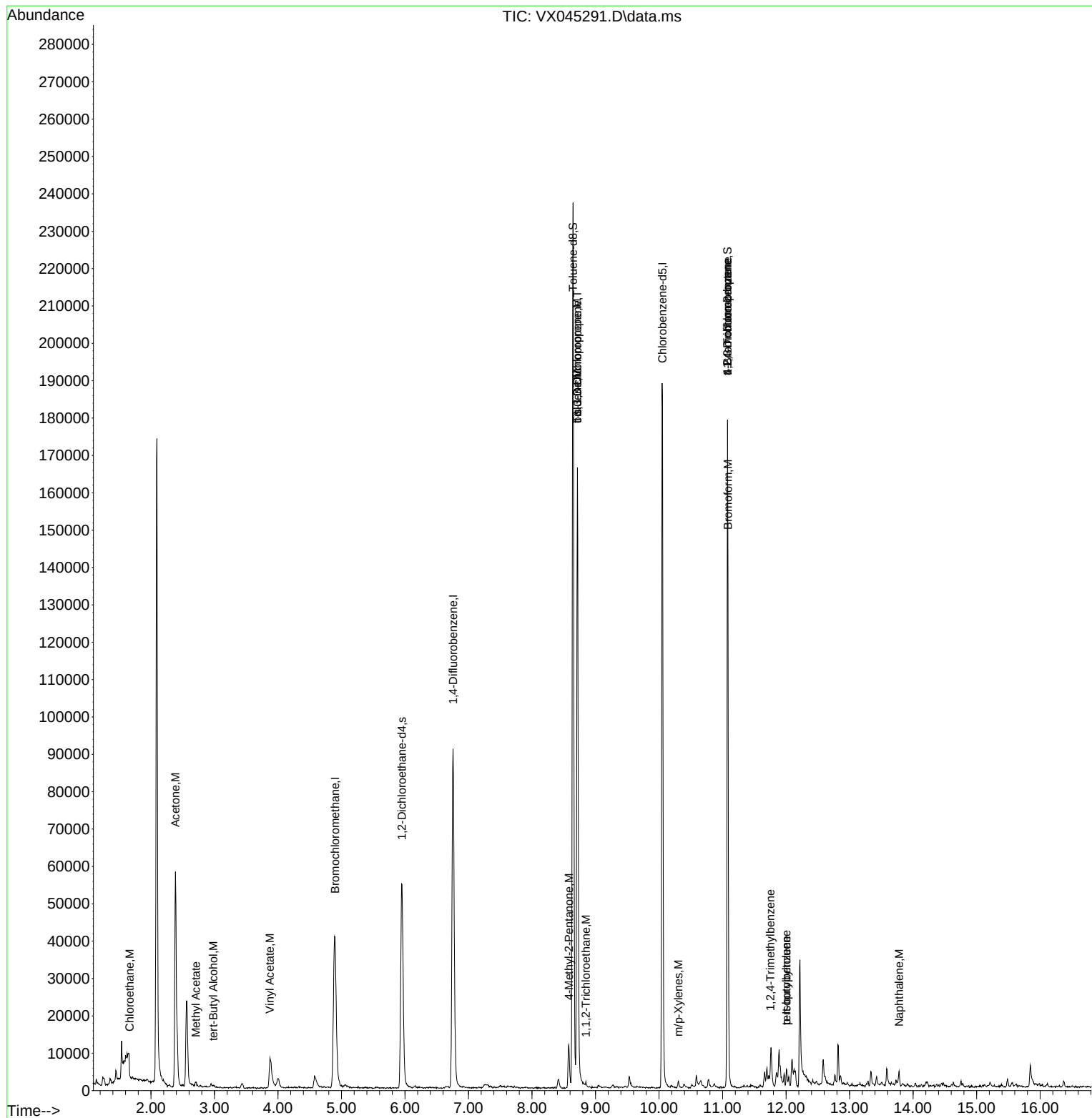
Internal Standards						
1) Bromochloromethane	4.898	128	16787	30.000	ug/l	0.01
28) 1,4-Difluorobenzene	6.757	114	89621	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	84103	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.952	65	52904	32.448	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	= 108.167%	
60) 4-Bromofluorobenzene	11.079	95	45921	29.212	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	= 97.367%	
63) Toluene-d8	8.647	98	137123	29.472	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	= 98.233%	
Target Compounds						Qvalue
6) Chloroethane	1.666	64	245	0.277	ug/l #	87
12) Methyl Acetate	2.709	43	1471	0.993	ug/l #	85
15) Acetone	2.386	58	18421	92.858	ug/l	98
23) tert-Butyl Alcohol	2.983	59	457	1.810	ug/l #	100
42) Vinyl Acetate	3.873	43	905	0.245	ug/l #	76
48) t-1,3-Dichloropropene	8.714	75	817	0.462	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	817	0.408	ug/l #	1
50) 1,1,2-Trichloroethane	8.848	97	800	0.665	ug/l #	16
56) Bromoform	11.085	173	352	0.422	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	8007	4.185	ug/l	95
62) Toluene	8.714	91	104236	18.709	ug/l	99
67) m/p-Xylenes	10.305	106	547	0.241	ug/l	99
72) 1,2,3-Trichloropropane	11.079	75	25067	16.107	ug/l	36
77) t-1,4-Dichloro-2-butene	11.079	75	25067	47.874	ug/l #	10
79) tert-butylbenzene	12.006	119	2030	0.424	ug/l	66
80) 1,2,4-Trimethylbenzene	11.756	105	1014	0.213	ug/l	74
82) p-Isopropyltoluene	12.006	119	2030	0.417	ug/l	98
91) Naphthalene	13.780	128	2471	0.478	ug/l #	96

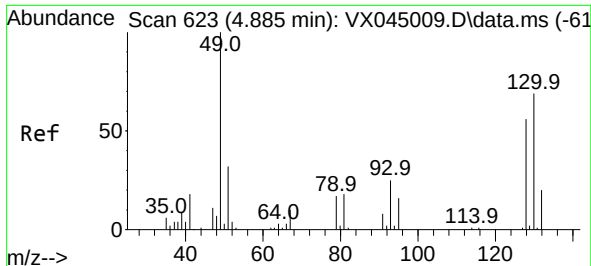
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Mar 15 03:58:25 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X022125W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Feb 22 01:06:36 2025
Response via : Initial Calibration

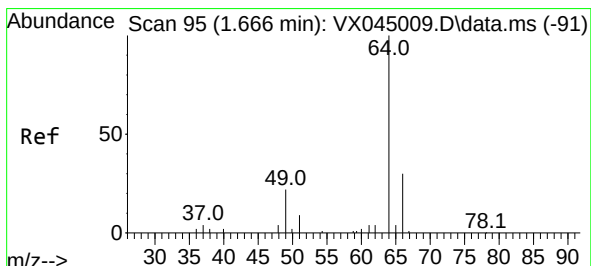
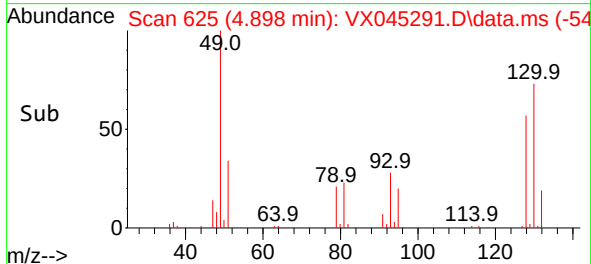
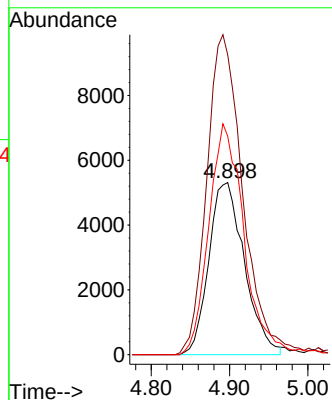
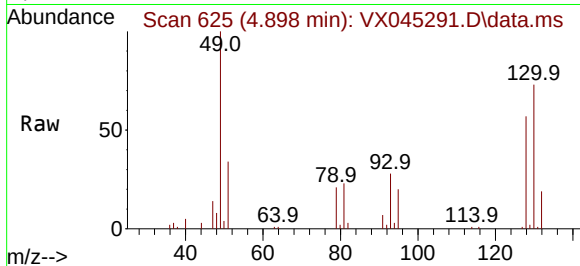




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.898 min Scan# 61
Delta R.T. 0.013 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

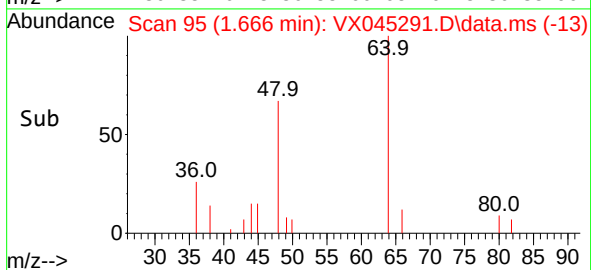
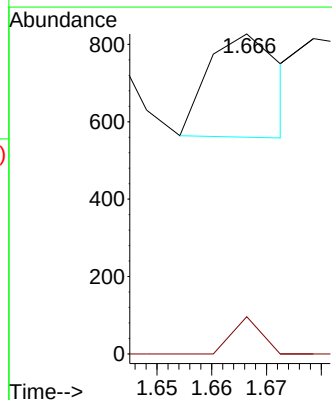
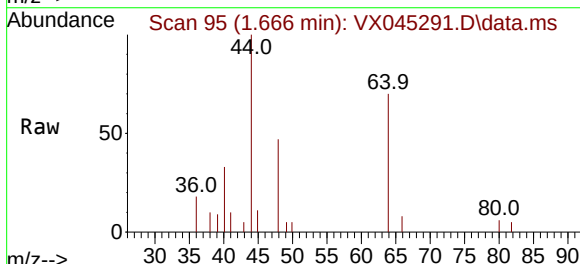
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

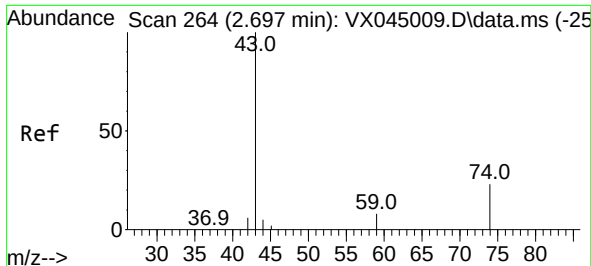
Tgt Ion:128 Resp: 16787
Ion Ratio Lower Upper
128 100
49 187.9 0.0 449.7
130 131.9 0.0 312.7



#6
Chloroethane
Concen: 0.277 ug/l
RT: 1.666 min Scan# 95
Delta R.T. -0.000 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

Tgt Ion: 64 Resp: 245
Ion Ratio Lower Upper
64 100
66 36.5 23.7 35.5#

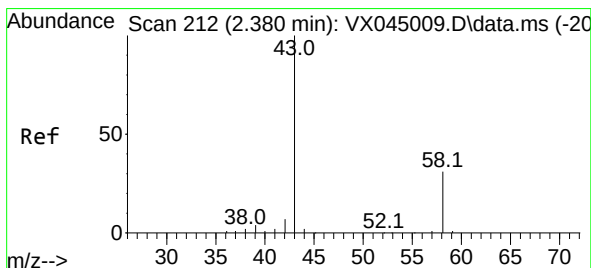
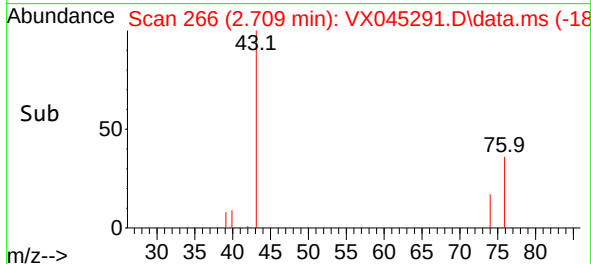
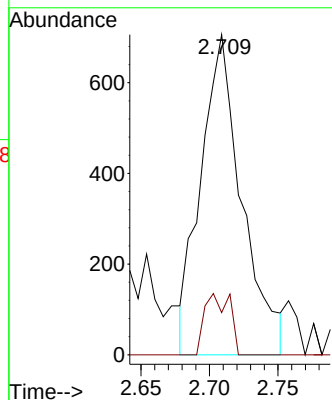
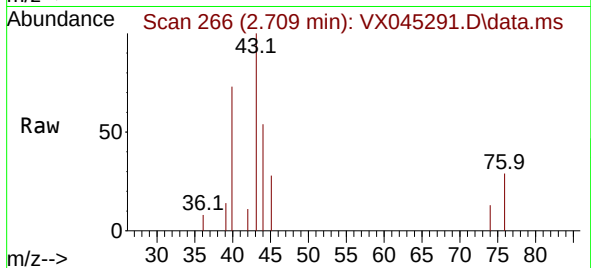




#12
Methyl Acetate
Concen: 0.993 ug/l
RT: 2.709 min Scan# 213
Delta R.T. 0.012 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

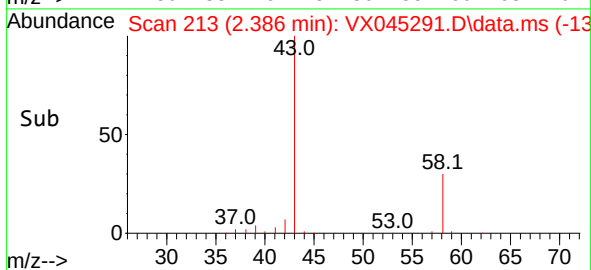
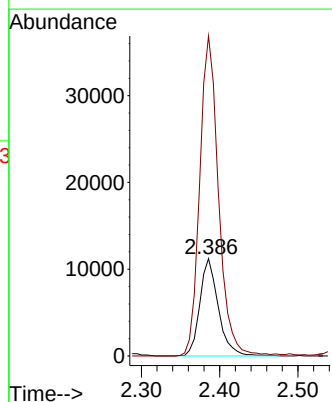
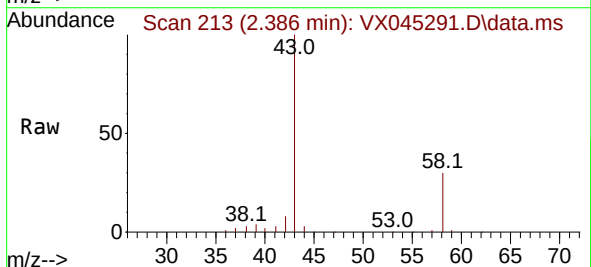
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

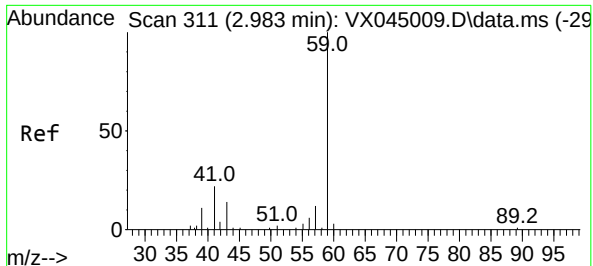
Tgt Ion: 43 Resp: 1471
Ion Ratio Lower Upper
43 100
74 15.3 17.9 26.9#



#15
Acetone
Concen: 92.858 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

Tgt Ion: 58 Resp: 18421
Ion Ratio Lower Upper
58 100
43 328.0 258.6 388.0





#23

tert-Butyl Alcohol

Concen: 1.810 ug/l

RT: 2.983 min Scan# 311

Delta R.T. -0.000 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

Instrument :

MSVOA_X

ClientSampleId :

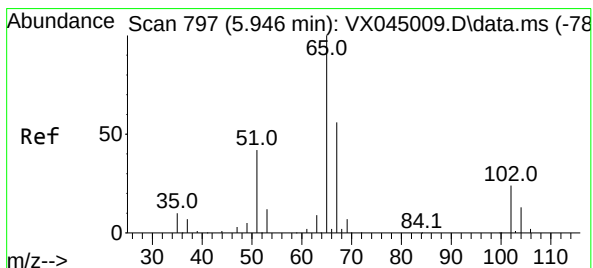
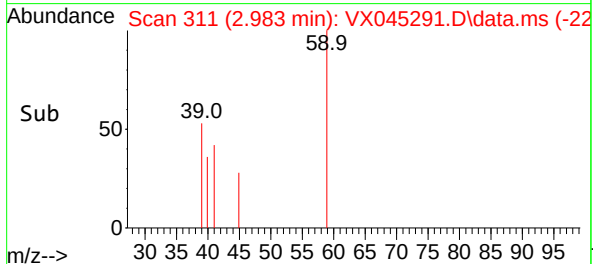
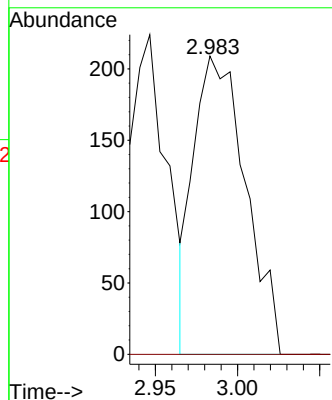
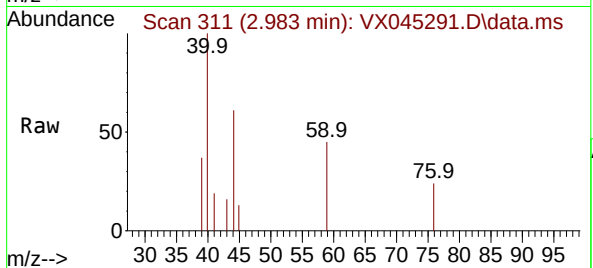
001-WILLETS-PT-BLVD(MAR)

Tgt Ion: 59 Resp: 457

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#27

1,2-Dichloroethane-d4

Concen: 32.448 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.006 min

Lab File: VX045291.D

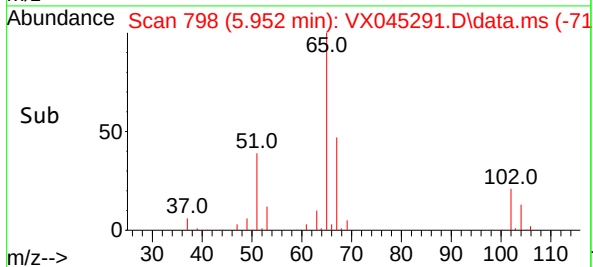
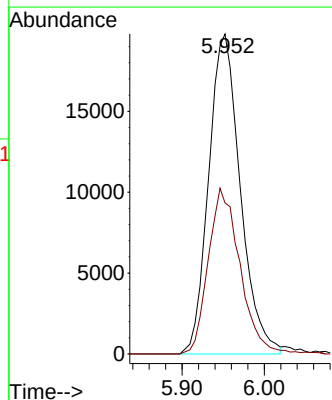
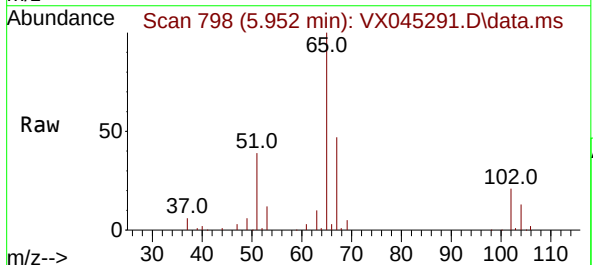
Acq: 14 Mar 2025 12:59

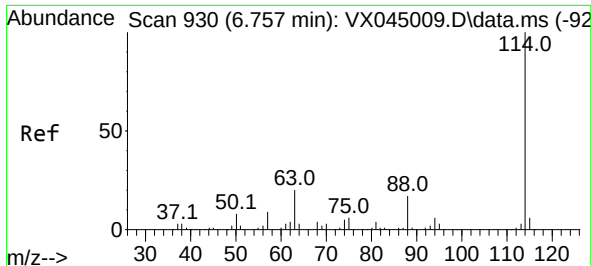
Tgt Ion: 65 Resp: 52904

Ion Ratio Lower Upper

65 100

67 51.9 42.6 64.0

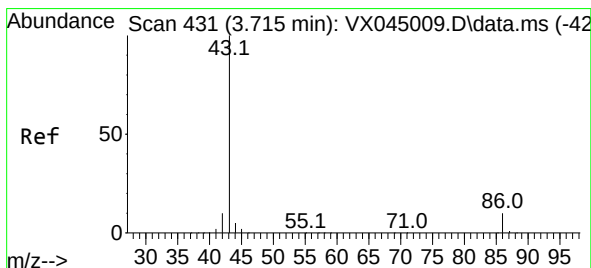
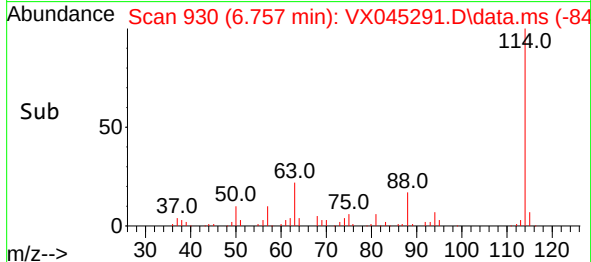
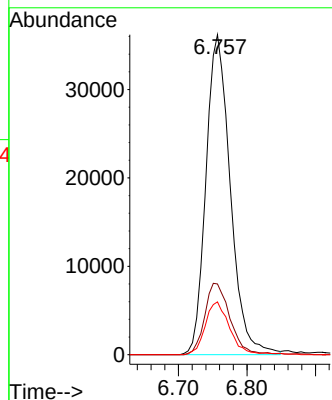
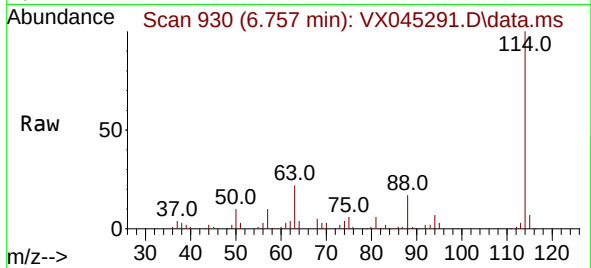




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 6.757 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

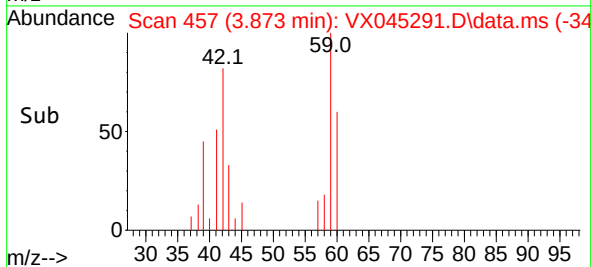
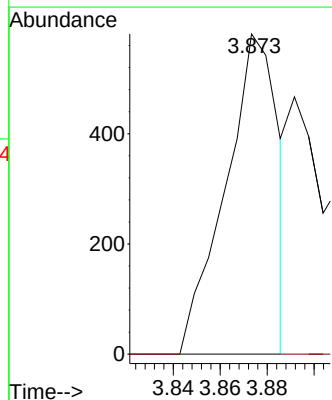
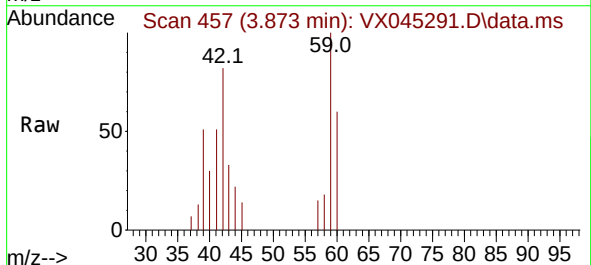
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

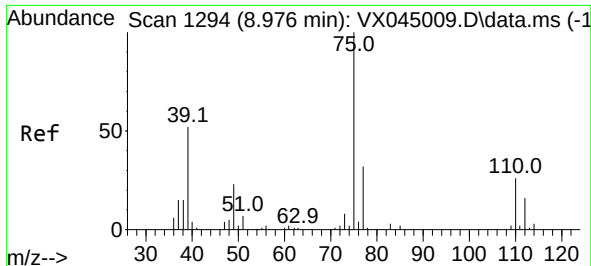
Tgt Ion:114 Resp: 89621
Ion Ratio Lower Upper
114 100
63 22.9 16.8 25.2
88 16.2 12.7 19.1



#42
Vinyl Acetate
Concen: 0.245 ug/l
RT: 3.873 min Scan# 457
Delta R.T. 0.158 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

Tgt Ion: 43 Resp: 905
Ion Ratio Lower Upper
43 100
86 0.0 7.0 10.4#

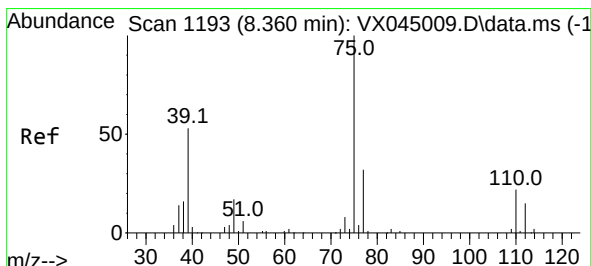
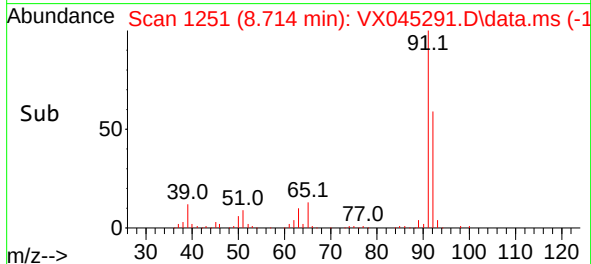
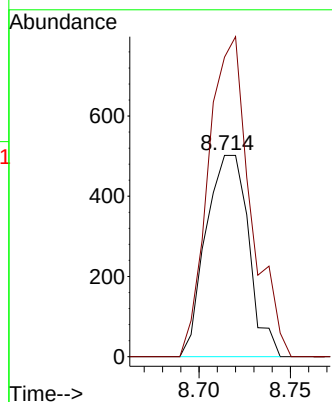
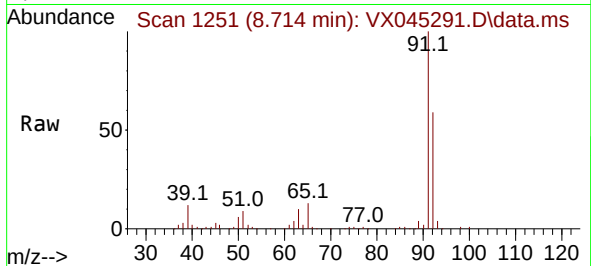




#48
 t-1,3-Dichloropropene
 Concen: 0.462 ug/l
 RT: 8.714 min Scan# 11
 Delta R.T. -0.262 min
 Lab File: VX045291.D
 Acq: 14 Mar 2025 12:59

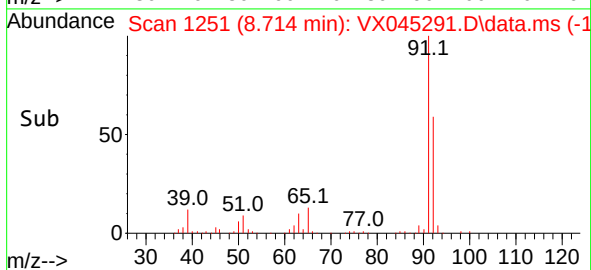
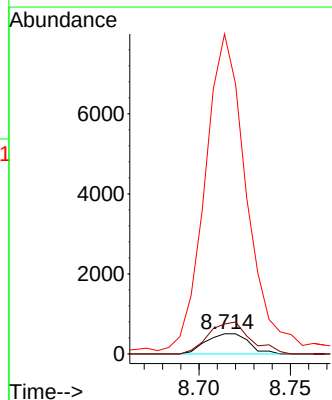
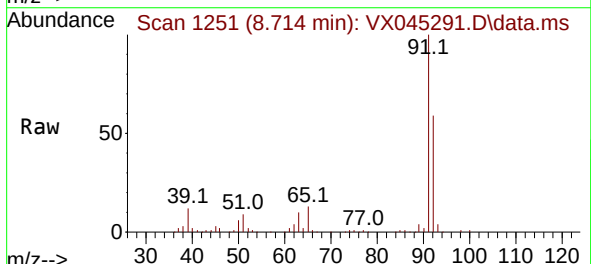
Instrument :
 MSVOA_X
 ClientSampleId :
 001-WILLETS-PT-BLVD(MAR)

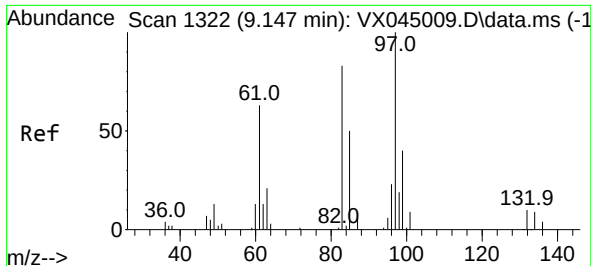
Tgt Ion: 75 Resp: 817
 Ion Ratio Lower Upper
 75 100
 77 148.8 25.7 38.5#



#49
 cis-1,3-Dichloropropene
 Concen: 0.408 ug/l
 RT: 8.714 min Scan# 1251
 Delta R.T. 0.354 min
 Lab File: VX045291.D
 Acq: 14 Mar 2025 12:59

Tgt Ion: 75 Resp: 817
 Ion Ratio Lower Upper
 75 100
 77 148.8 25.9 38.9#
 39 1506.6 42.3 63.5#





#50

1,1,2-Trichloroethane

Concen: 0.665 ug/l

RT: 8.848 min Scan# 11

Delta R.T. -0.299 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

Instrument :

MSVOA_X

ClientSampleId :

001-WILLETS-PT-BLVD(MAR)

Tgt Ion: 97 Resp: 800

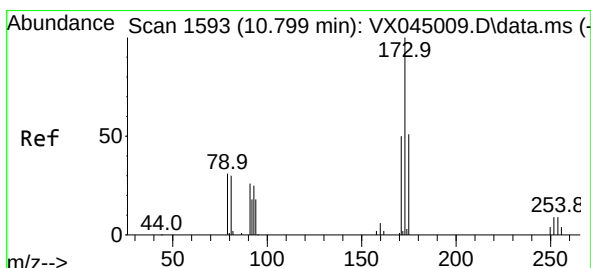
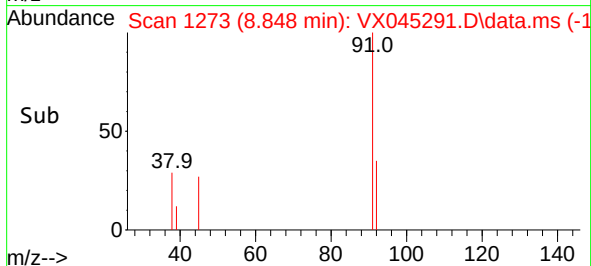
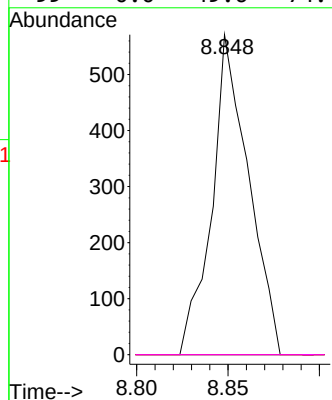
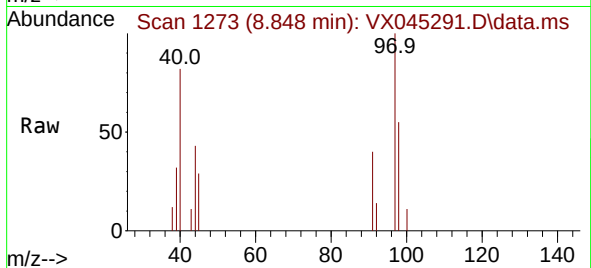
Ion Ratio Lower Upper

97 100

83 0.0 66.0 99.0#

85 0.0 42.5 63.7#

99 0.0 49.6 74.4#



#56

Bromoform

Concen: 0.422 ug/l

RT: 11.085 min Scan# 1640

Delta R.T. 0.286 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

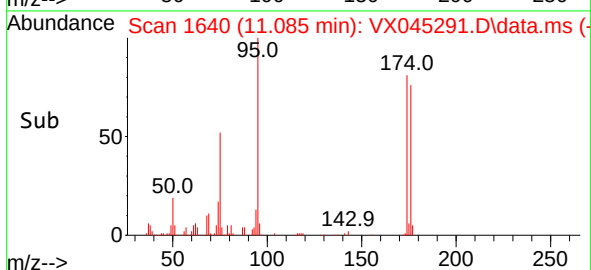
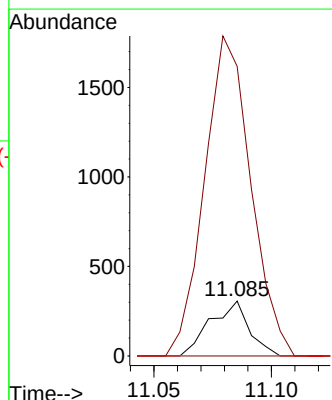
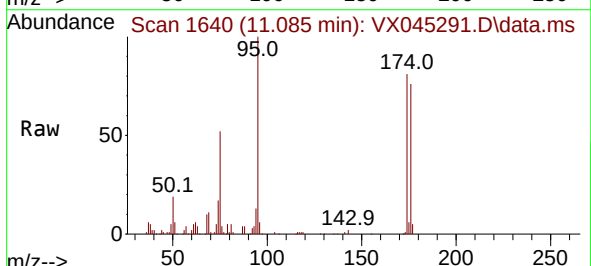
Tgt Ion:173 Resp: 352

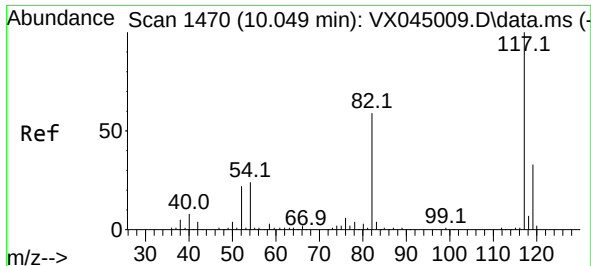
Ion Ratio Lower Upper

173 100

175 696.3 39.6 59.4#

254 0.0 6.3 9.5#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1470

Delta R.T. 0.006 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

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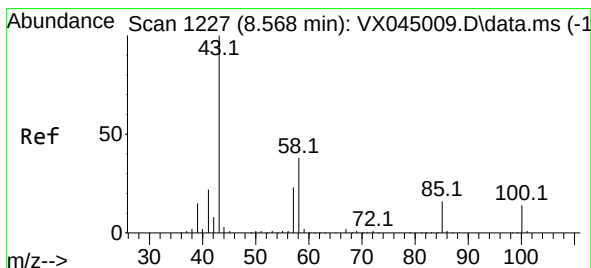
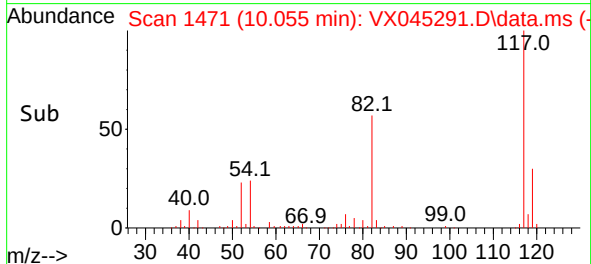
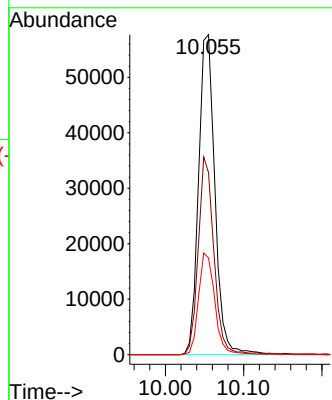
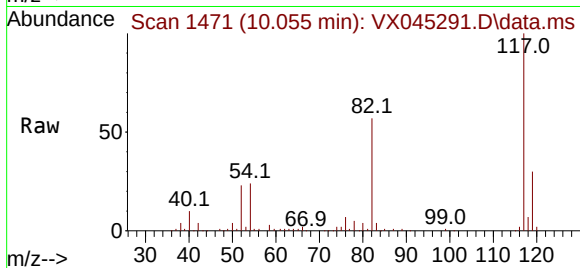
Tgt Ion:117 Resp: 84103

Ion Ratio Lower Upper

117 100

82 58.6 45.8 68.8

119 31.5 25.5 38.3



#58

4-Methyl-2-Pentanone

Concen: 4.185 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.012 min

Lab File: VX045291.D

Acq: 14 Mar 2025 12:59

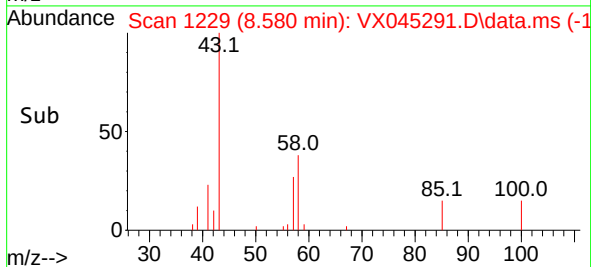
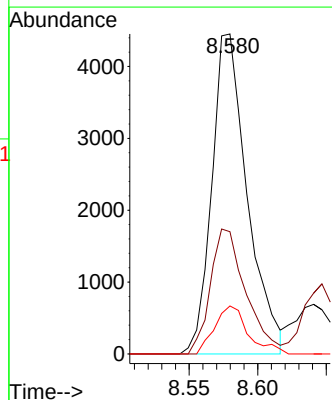
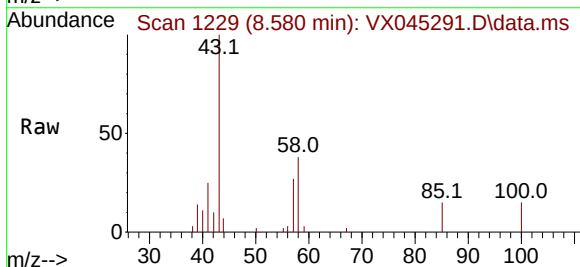
Tgt Ion: 43 Resp: 8007

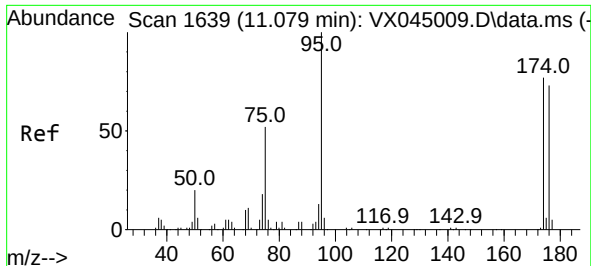
Ion Ratio Lower Upper

43 100

58 39.0 29.5 44.3

85 13.3 12.9 19.3

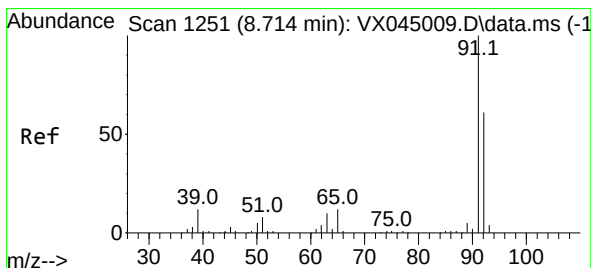
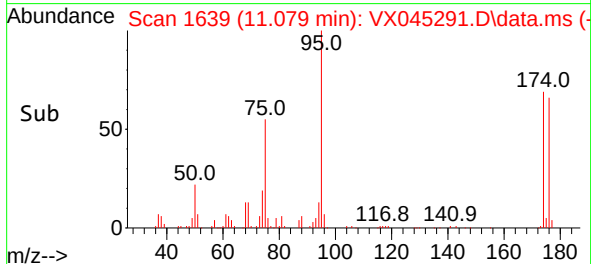
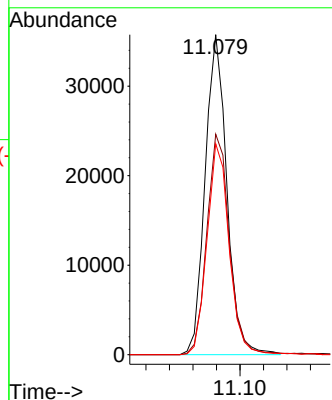
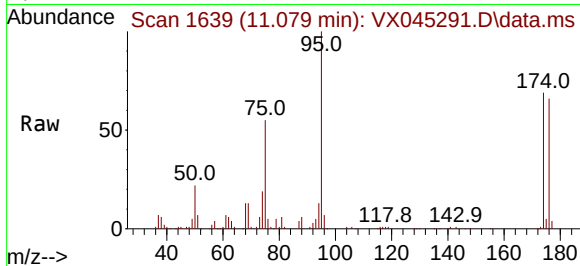




#60
4-Bromofluorobenzene
Concen: 29.212 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

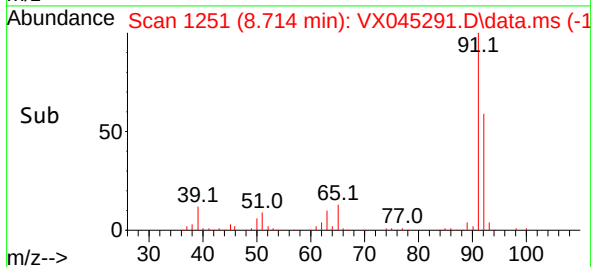
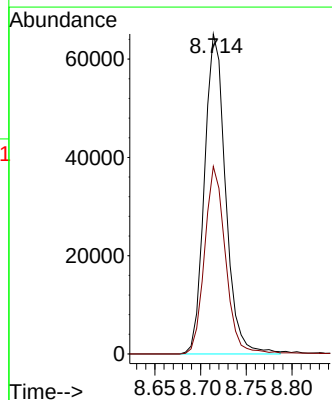
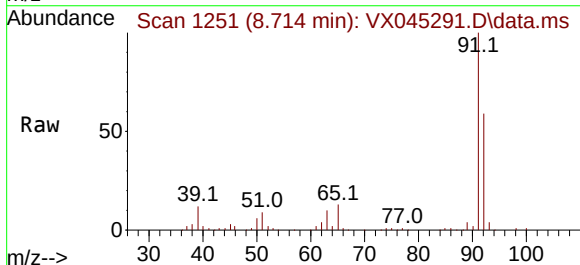
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

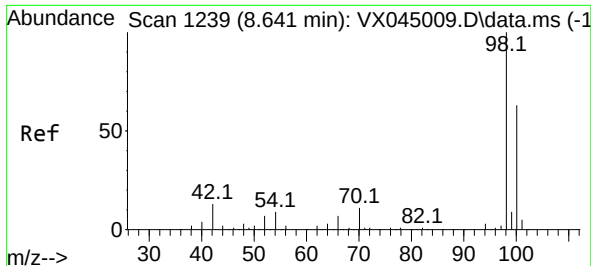
Tgt Ion: 95 Resp: 45921
Ion Ratio Lower Upper
95 100
174 71.5 59.5 89.3
176 66.8 55.5 83.3



#62
Toluene
Concen: 18.709 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.000 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

Tgt Ion: 91 Resp: 104236
Ion Ratio Lower Upper
91 100
92 58.1 46.9 70.3

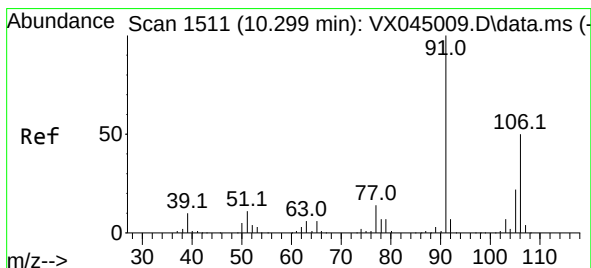
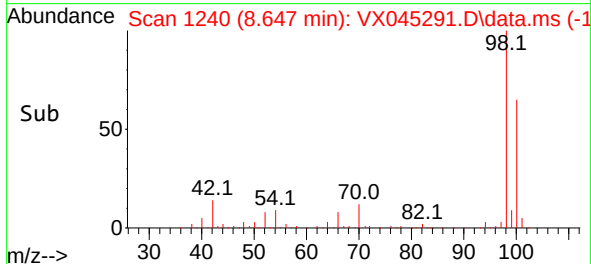
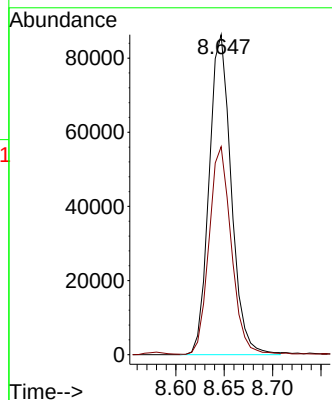
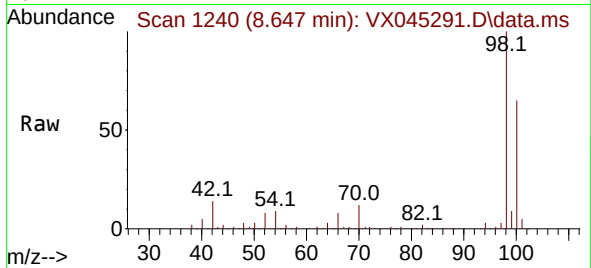




#63
Toluene-d8
Concen: 29.472 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.006 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

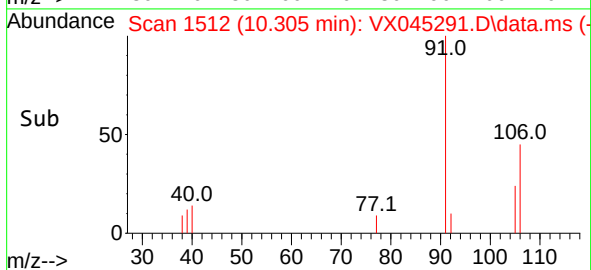
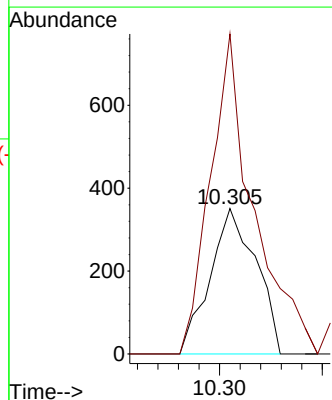
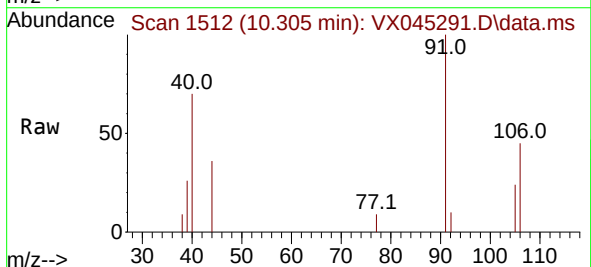
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

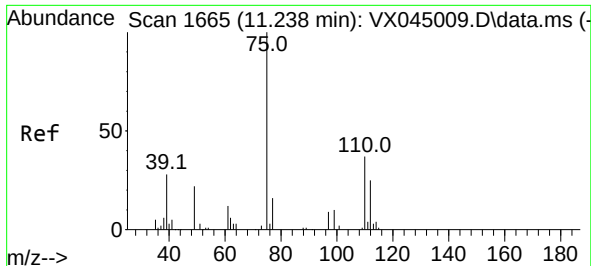
Tgt Ion: 98 Resp: 137123
Ion Ratio Lower Upper
98 100
100 65.1 51.7 77.5



#67
m/p-Xylenes
Concen: 0.241 ug/l
RT: 10.305 min Scan# 1512
Delta R.T. 0.006 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

Tgt Ion:106 Resp: 547
Ion Ratio Lower Upper
106 100
91 206.2 163.7 245.5

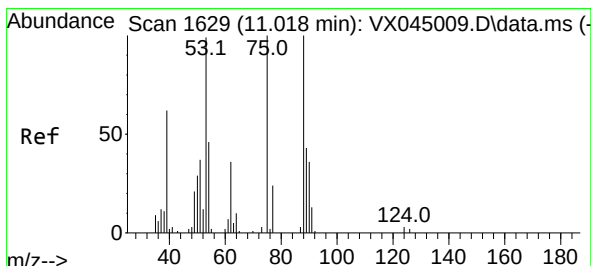
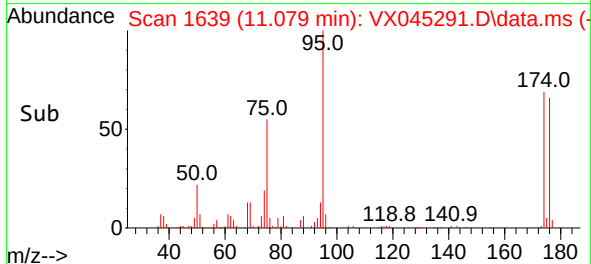
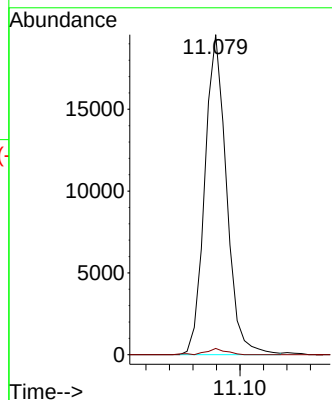
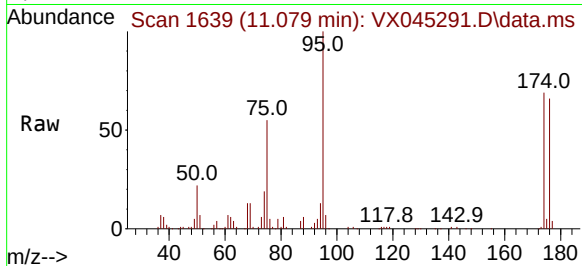




#72
1,2,3-Trichloropropane
Concen: 16.107 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.159 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

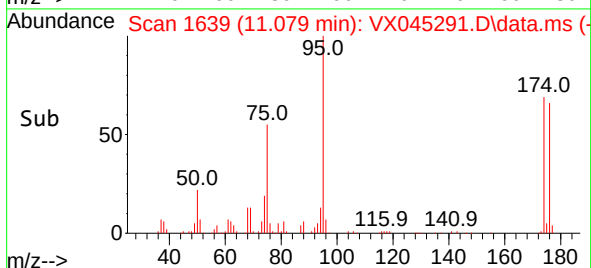
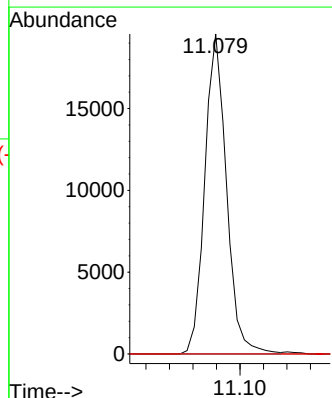
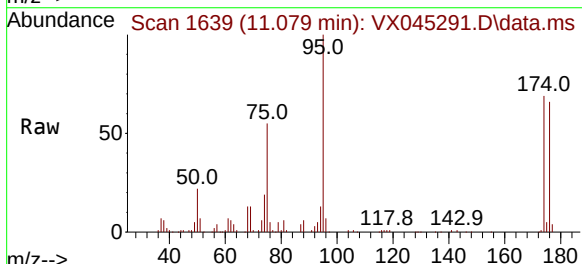
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

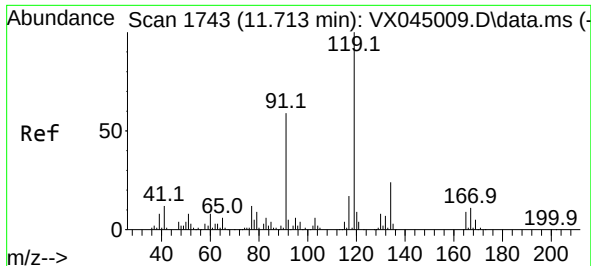
Tgt Ion: 75 Resp: 25067
Ion Ratio Lower Upper
75 100
77 1.7 0.0 84.0



#77
t-1,4-Dichloro-2-butene
Concen: 47.874 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

Tgt Ion: 75 Resp: 25067
Ion Ratio Lower Upper
75 100
53 0.0 49.8 149.4#
89 0.0 21.4 64.2#

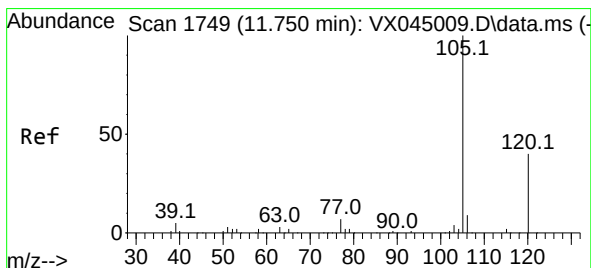
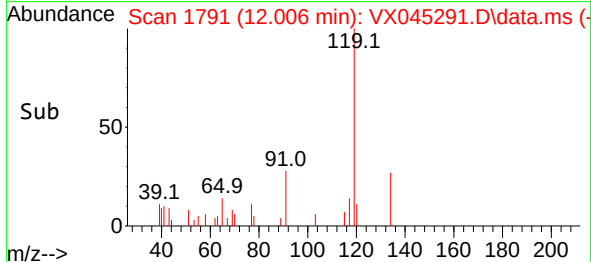
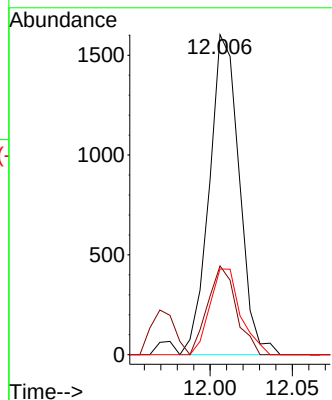
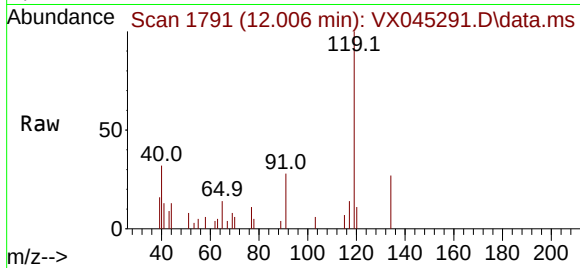




#79
tert-butylbenzene
Concen: 0.424 ug/l
RT: 12.006 min Scan# 11
Delta R.T. 0.293 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

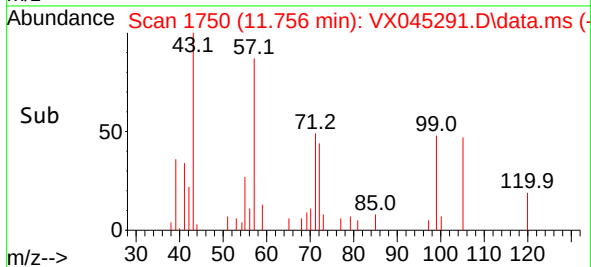
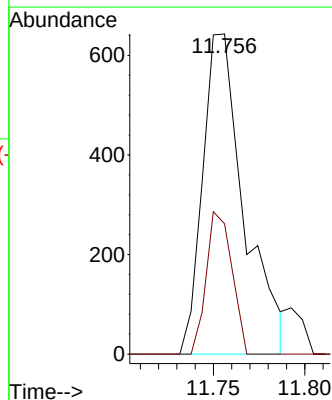
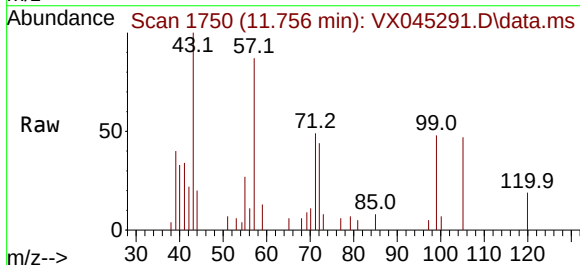
Instrument :
MSVOA_X
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

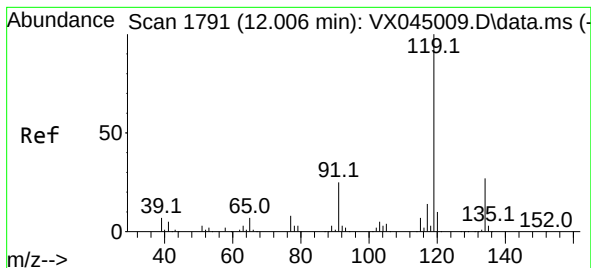
Tgt Ion:119 Resp: 2030
Ion Ratio Lower Upper
119 100
91 26.4 0.0 120.6
134 27.6 0.0 48.2



#80
1,2,4-Trimethylbenzene
Concen: 0.213 ug/l
RT: 11.756 min Scan# 1750
Delta R.T. 0.006 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

Tgt Ion:105 Resp: 1014
Ion Ratio Lower Upper
105 100
120 27.4 0.0 88.4

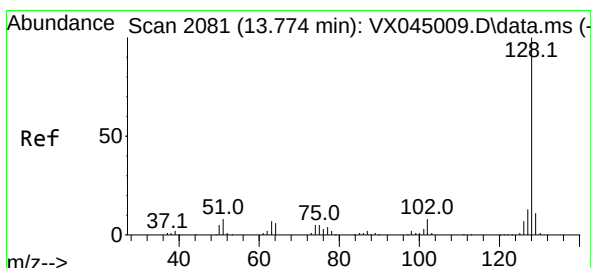
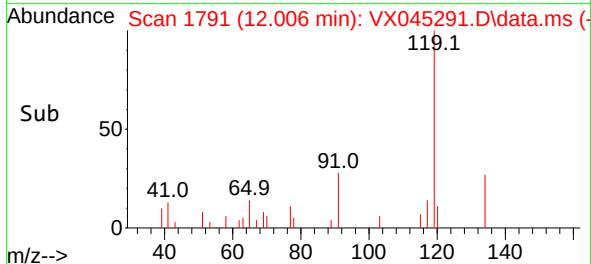
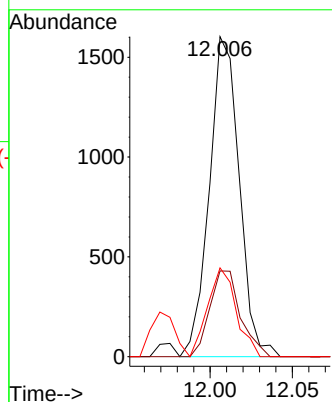
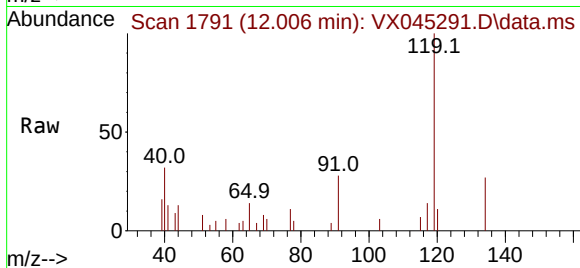




#82
p-Isopropyltoluene
Concen: 0.417 ug/l
RT: 12.006 min Scan# 119
Delta R.T. -0.000 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

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

Tgt Ion:	119	Resp:	2030
Ion	Ratio	Lower	Upper
119	100		
134	27.6	0.0	52.6
91	26.4	0.0	51.0



#91
Naphthalene
Concen: 0.478 ug/l
RT: 13.780 min Scan# 2082
Delta R.T. 0.006 min
Lab File: VX045291.D
Acq: 14 Mar 2025 12:59

Tgt Ion:	128	Resp:	2471
Ion	Ratio	Lower	Upper
128	100		
127	13.6	10.5	15.7
129	13.9	8.7	13.1#

