

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN090624\
 Data File : VN083702.D
 Acq On : 06 Sep 2024 17:36
 Operator : JC\MD
 Sample : P3884-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(SEP)

Quant Time: Sep 06 23:49:45 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

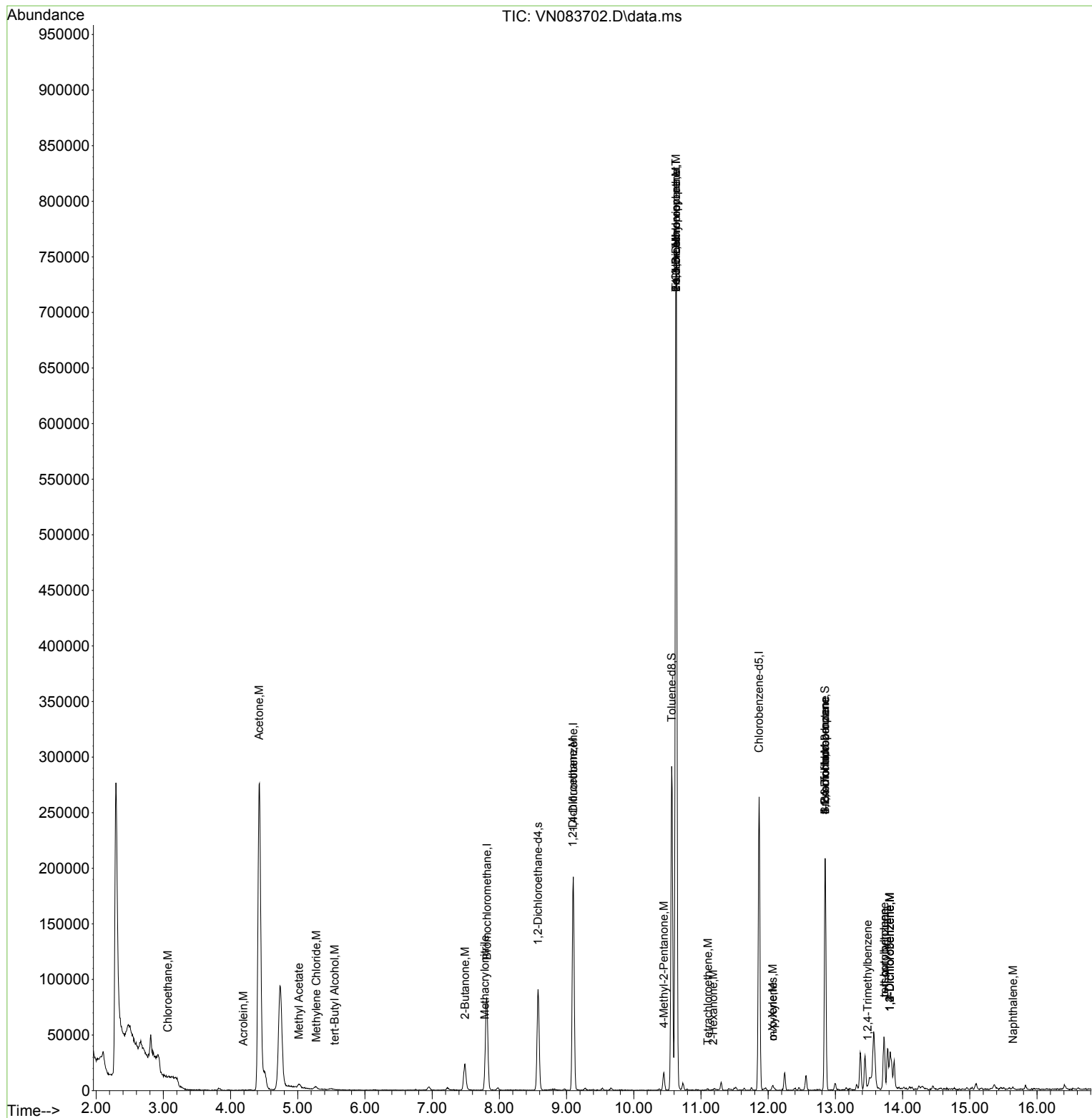
Internal Standards						
1) Bromochloromethane	7.818	128	27773	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	159983	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	143027	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.576	65	77522	30.537	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	101.800%
60) 4-Bromofluorobenzene	12.847	95	72540	29.427	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	98.100%
63) Toluene-d8	10.565	98	197035	29.752	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.167%
Target Compounds						
					Qvalue	
6) Chloroethane	3.065	64	1097	0.825	ug/l #	41
12) Methyl Acetate	5.018	43	3995	1.919	ug/l #	77
13) Acrolein	4.189	56	209	0.688	ug/l #	15
15) Acetone	4.424	58	151417	541.828	ug/l #	66
18) Methylene Chloride	5.277	84	527	0.279	ug/l #	56
23) tert-Butyl Alcohol	5.547	59	157	0.508	ug/l #	100
30) 2-Butanone	7.488	43	38240	31.969	ug/l	94
35) Methacrylonitrile	7.782	41	1043	0.776	ug/l #	23
36) 1,2-Dichloroethane	9.094	62	6523	2.279	ug/l #	72
48) t-1,3-Dichloropropene	10.629	75	4645	1.550	ug/l #	1
49) cis-1,3-Dichloropropene	10.629	75	4645	1.490	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.629	63	43276	37.281	ug/l #	1
56) Bromoform	12.847	173	476	0.366	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	10865	4.791	ug/l #	91
59) 2-Hexanone	11.182	43	760	0.444	ug/l #	52
61) Tetrachloroethene	11.106	164	418	0.276	ug/l #	51
62) Toluene	10.629	91	586140	71.298	ug/l	100
67) m/p-Xylenes	12.070	106	1504	0.437	ug/l	98
68) o-Xylene	12.070	106	1504	0.452	ug/l	90
72) 1,2,3-Trichloropropane	12.847	75	40615	19.307	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	40615	45.677	ug/l #	12
79) tert-butylbenzene	13.729	119	18101	2.821	ug/l	61
80) 1,2,4-Trimethylbenzene	13.482	105	3572	0.482	ug/l	67
82) p-Isopropyltoluene	13.729	119	18101	2.454	ug/l	95
83) 1,3-Dichlorobenzene	13.811	146	893	0.230	ug/l	84
84) 1,4-Dichlorobenzene	13.811	146	893	0.230	ug/l	83
87) 1,2-Dichlorobenzene	13.811	146	893	0.237	ug/l	85
91) Naphthalene	15.647	128	2769	0.410	ug/l #	79

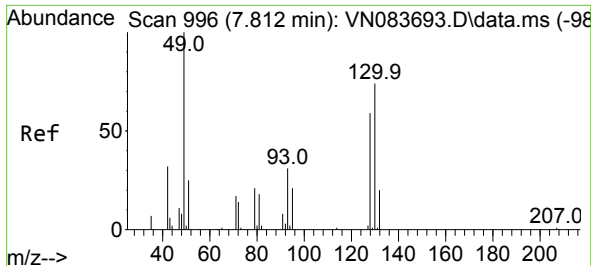
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Instrument :
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001-WILLETS-PT-BLVD(SEP)

Quant Time: Sep 06 23:49:45 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 06 23:42:47 2024
Response via : Initial Calibration

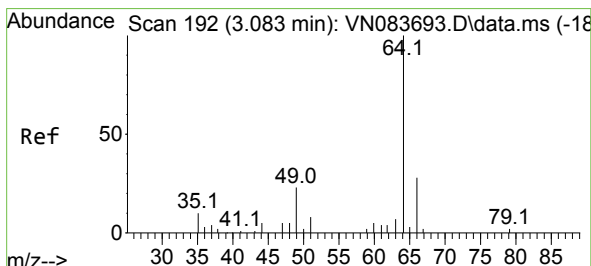
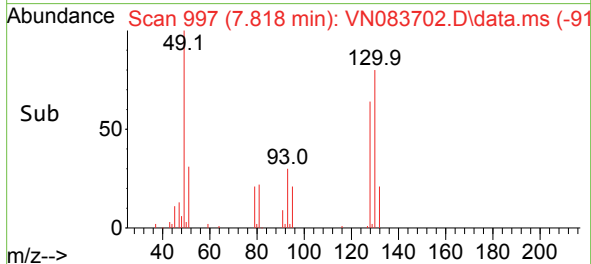
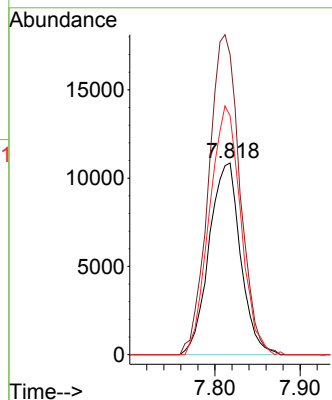
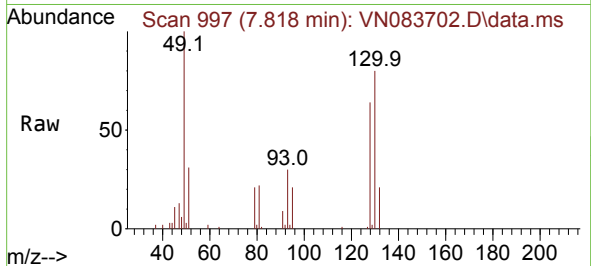




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 996
Delta R.T. 0.006 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

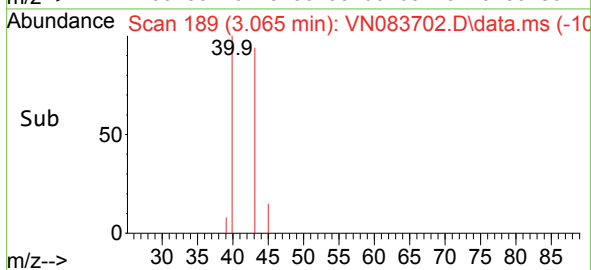
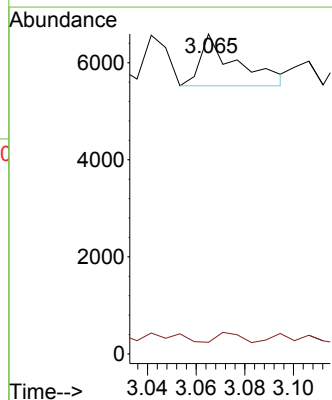
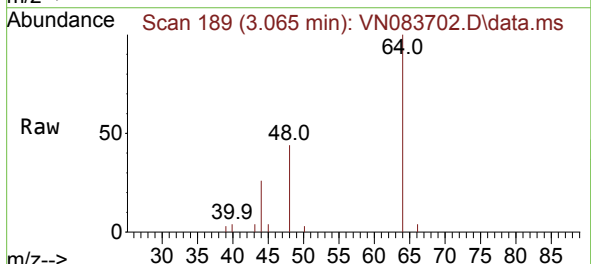
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

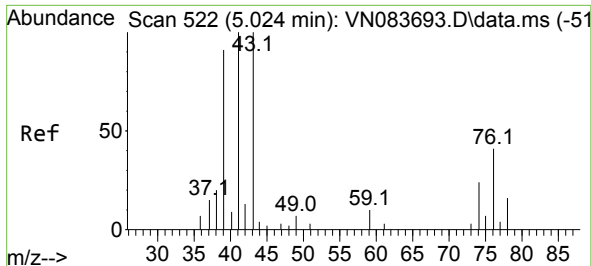
Tgt Ion:128 Resp: 27773
Ion Ratio Lower Upper
128 100
49 166.4 0.0 403.7
130 129.3 0.0 323.3



#6
Chloroethane
Concen: 0.825 ug/l
RT: 3.065 min Scan# 189
Delta R.T. -0.018 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

Tgt Ion: 64 Resp: 1097
Ion Ratio Lower Upper
64 100
66 0.0 26.7 40.1#

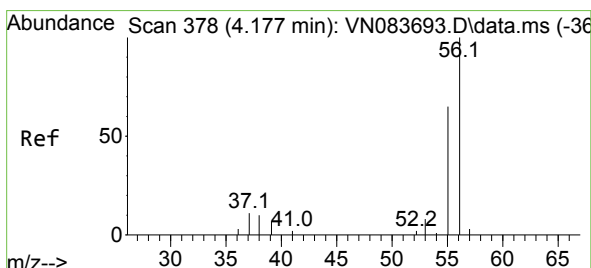
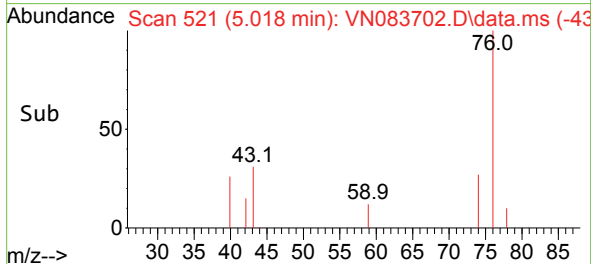
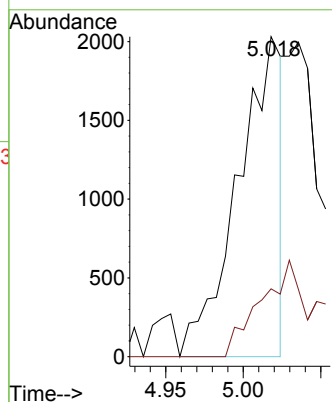
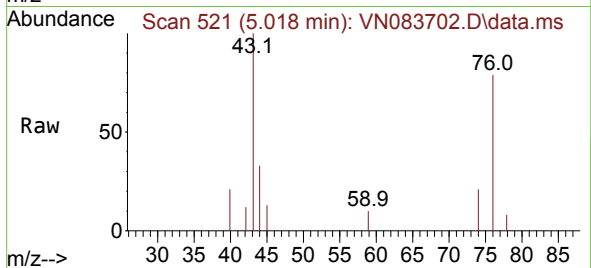




#12
Methyl Acetate
Concen: 1.919 ug/l
RT: 5.018 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

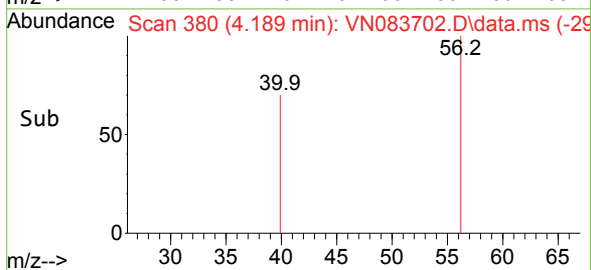
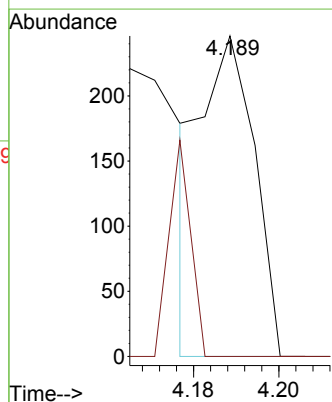
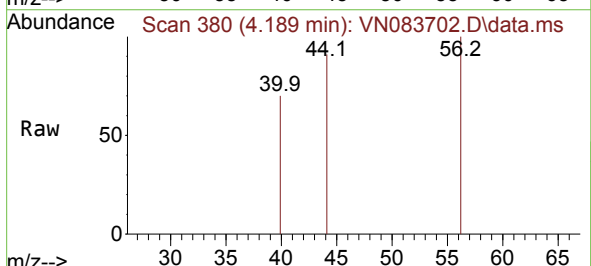
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

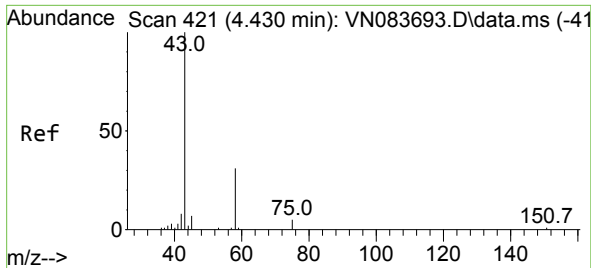
Tgt Ion: 43 Resp: 3995
Ion Ratio Lower Upper
43 100
74 21.6 27.7 41.5#



#13
Acrolein
Concen: 0.688 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

Tgt Ion: 56 Resp: 209
Ion Ratio Lower Upper
56 100
55 0.0 55.5 83.3#





#15

Acetone

Concen: 541.828 ug/l

RT: 4.424 min Scan# 41

Delta R.T. -0.006 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

Instrument :

MSVOA_N

ClientSampleId :

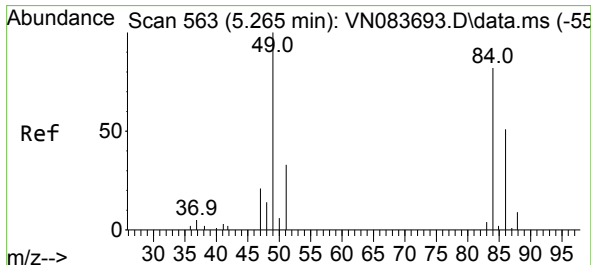
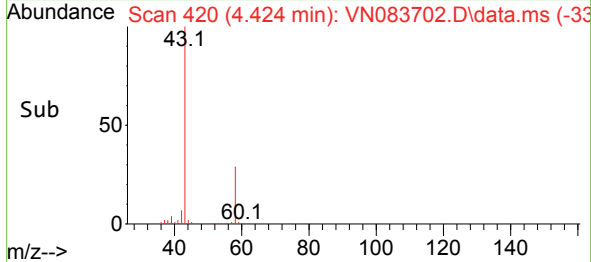
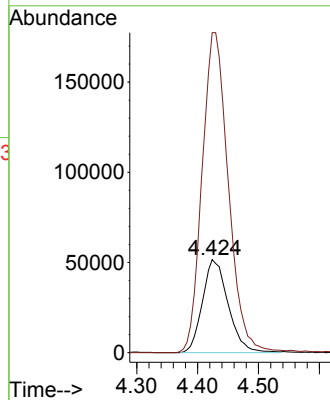
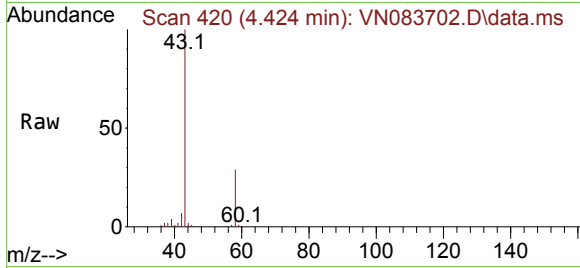
001-WILLETS-PT-BLVD(SEP)

Tgt Ion: 58 Resp: 151417

Ion Ratio Lower Upper

58 100

43 342.7 223.1 334.7#



#18

Methylene Chloride

Concen: 0.279 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.012 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

Tgt Ion: 84 Resp: 527

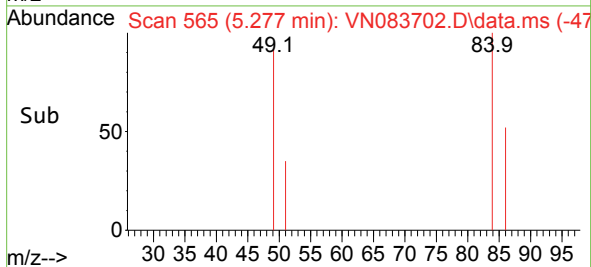
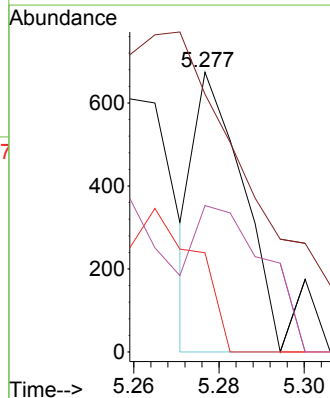
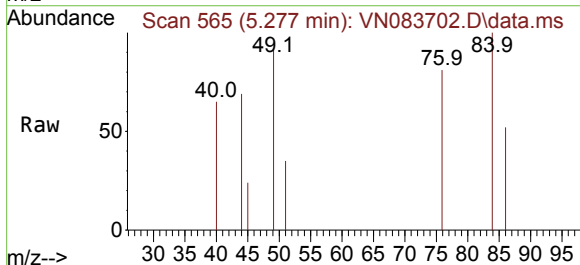
Ion Ratio Lower Upper

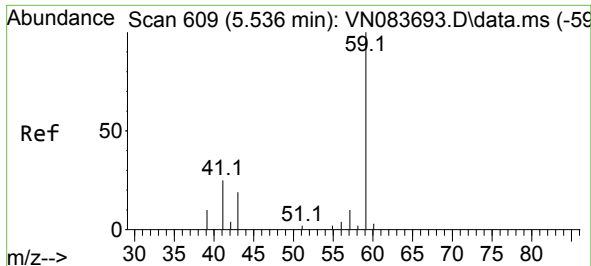
84 100

49 51.8 86.0 129.0#

51 35.5 30.0 45.0

86 25.1 53.0 79.4#





#23

tert-Butyl Alcohol

Concen: 0.508 ug/l

RT: 5.547 min Scan# 611

Delta R.T. 0.012 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

Instrument :

MSVOA_N

ClientSampleId :

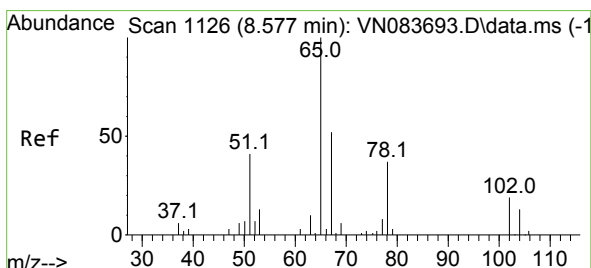
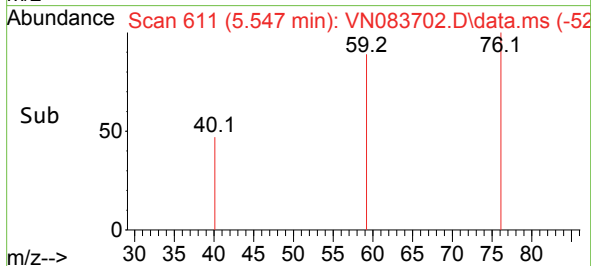
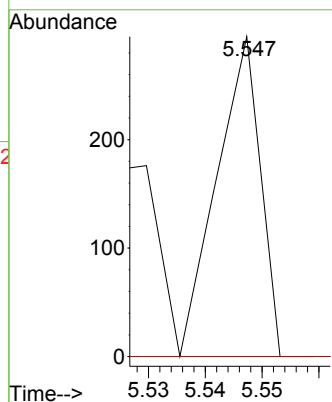
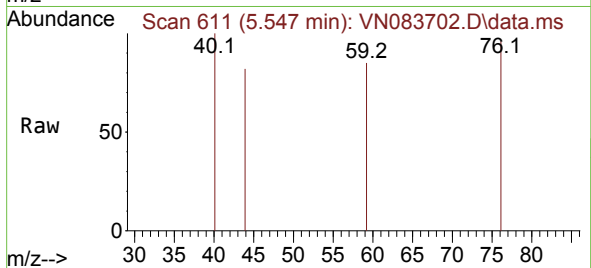
001-WILLETS-PT-BLVD(SEP)

Tgt Ion: 59 Resp: 157

Ion Ratio Lower Upper

59 100

52 0.0 0.0 0.0



#27

1,2-Dichloroethane-d4

Concen: 30.537 ug/l

RT: 8.576 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN083702.D

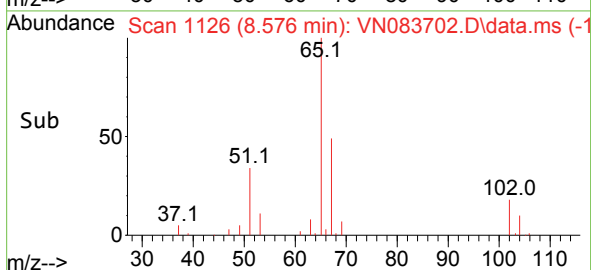
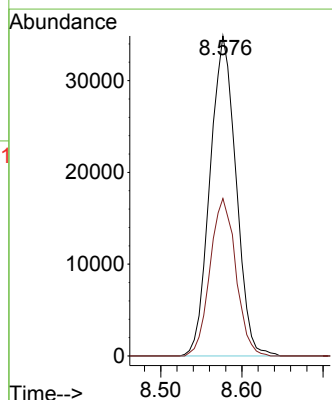
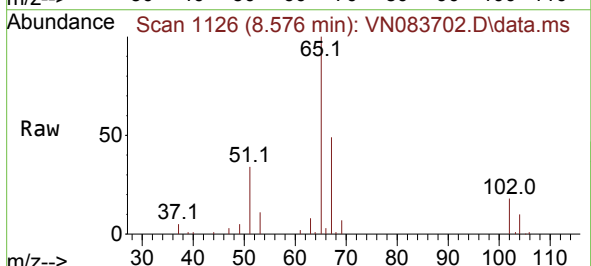
Acq: 06 Sep 2024 17:36

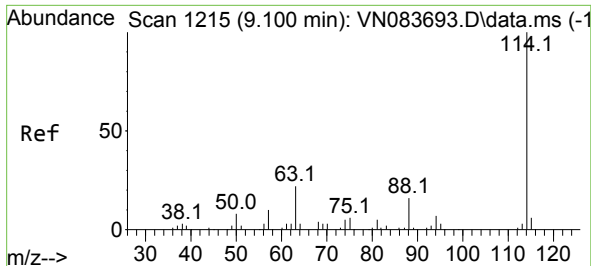
Tgt Ion: 65 Resp: 77522

Ion Ratio Lower Upper

65 100

67 48.9 43.2 64.8





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(SEP)

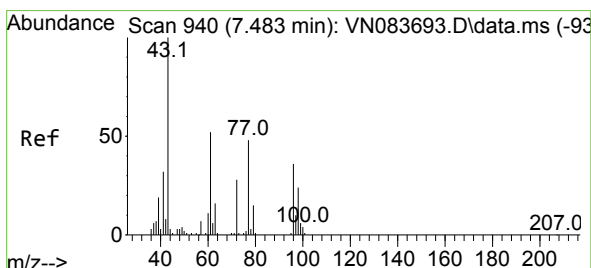
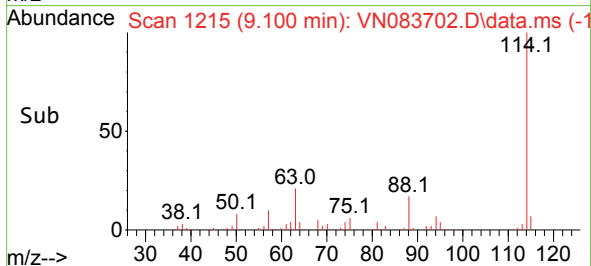
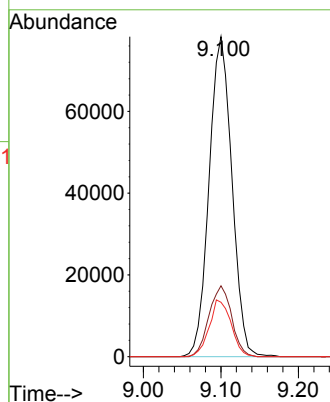
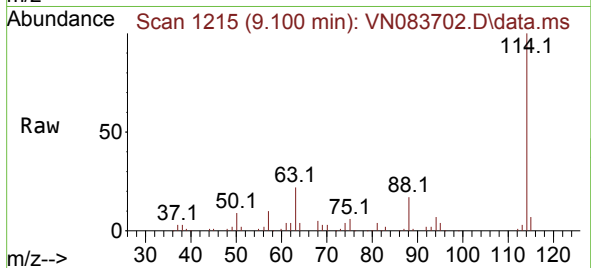
Tgt Ion:114 Resp: 159983

Ion Ratio Lower Upper

114 100

63 22.0 15.9 23.9

88 17.0 12.7 19.1



#30

2-Butanone

Concen: 31.969 ug/l

RT: 7.488 min Scan# 941

Delta R.T. 0.006 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

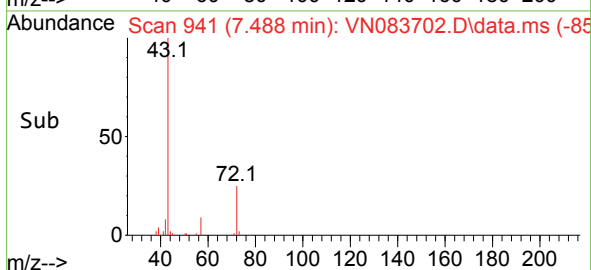
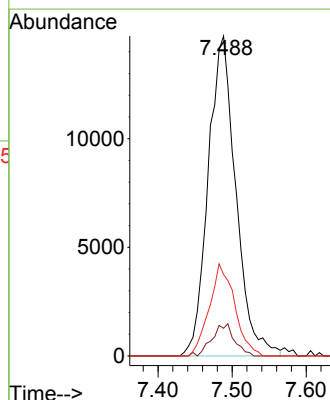
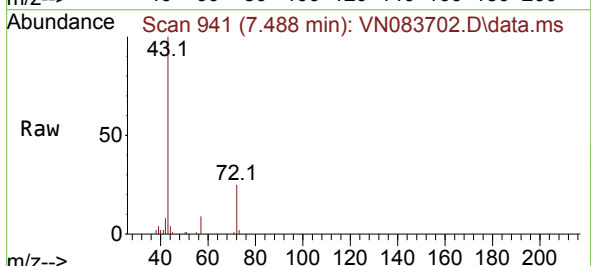
Tgt Ion: 43 Resp: 38240

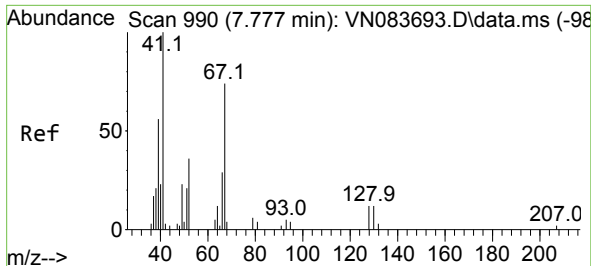
Ion Ratio Lower Upper

43 100

57 8.0 6.7 10.1

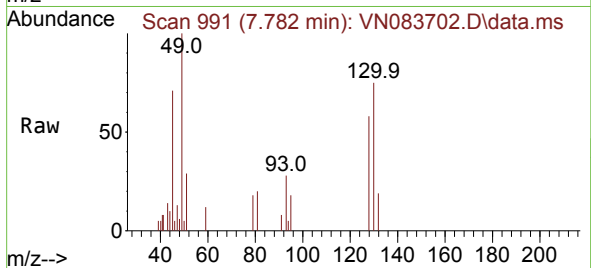
72 26.3 24.0 36.0



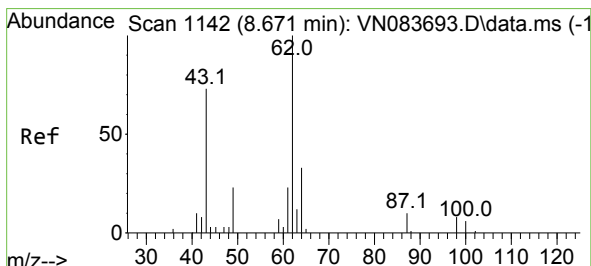
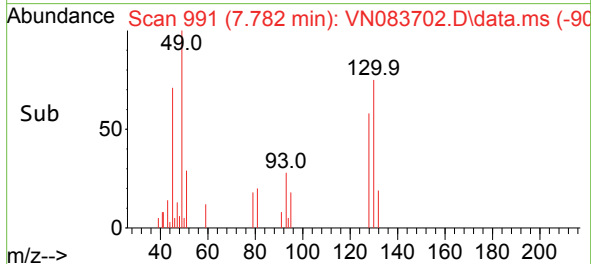
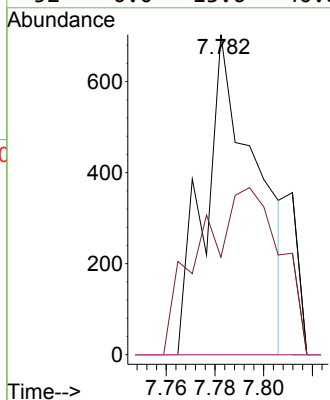


#35
Methacrylonitrile
Concen: 0.776 ug/l
RT: 7.782 min Scan# 991
Delta R.T. 0.006 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

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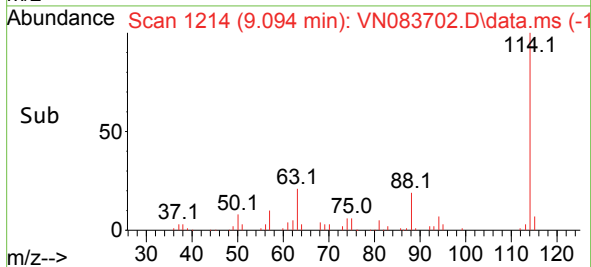
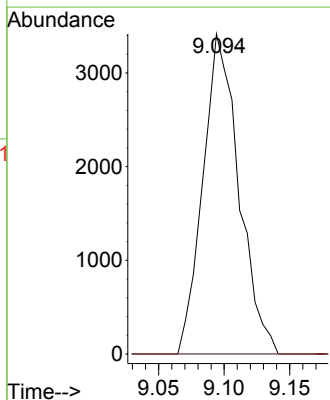
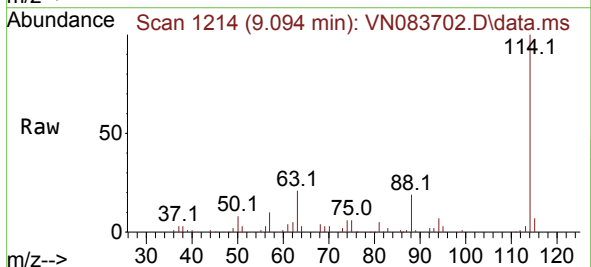


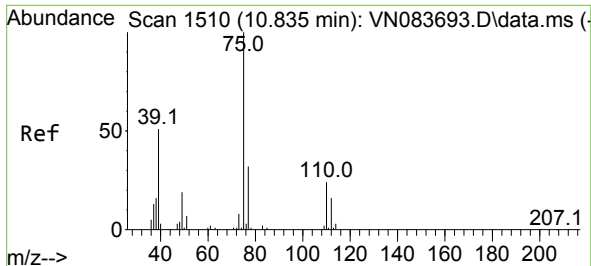
Tgt Ion:	41	Resp:	1043
Ion	Ratio	Lower	Upper
41	100		
39	1.3	25.3	75.9#
67	0.0	38.7	116.1#
52	0.0	13.6	40.8#



#36
1,2-Dichloroethane
Concen: 2.279 ug/l
RT: 9.094 min Scan# 1214
Delta R.T. 0.423 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

Tgt Ion:	62	Resp:	6523
Ion	Ratio	Lower	Upper
62	100		
98	0.0	8.2	12.4#

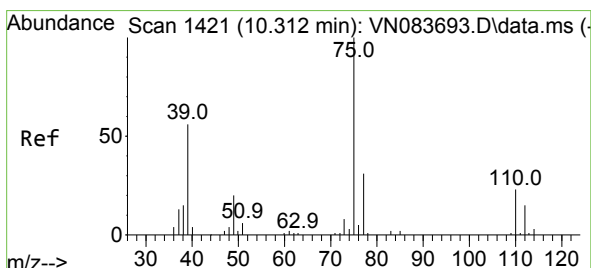
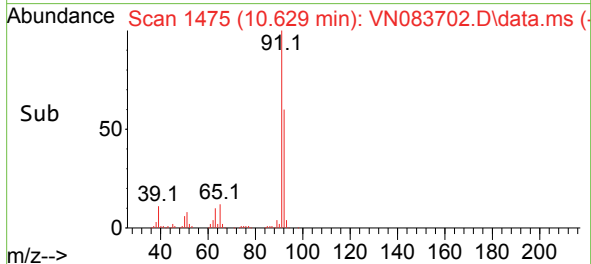
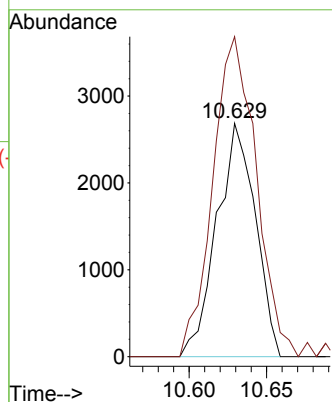
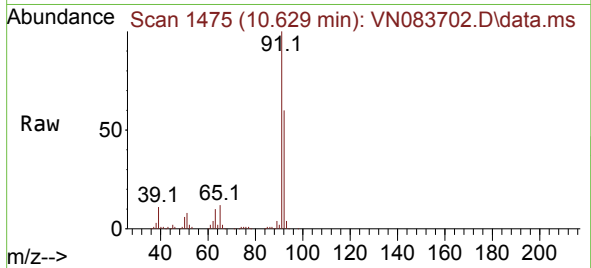




#48
 t-1,3-Dichloropropene
 Concen: 1.550 ug/l
 RT: 10.629 min Scan# 1475
 Delta R.T. -0.206 min
 Lab File: VN083702.D
 Acq: 06 Sep 2024 17:36

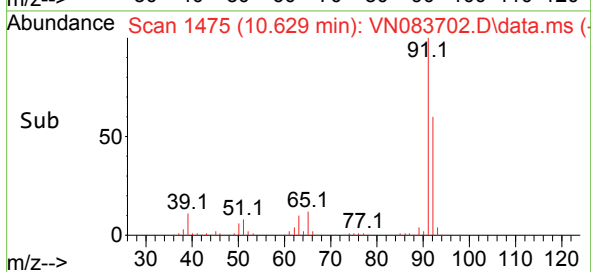
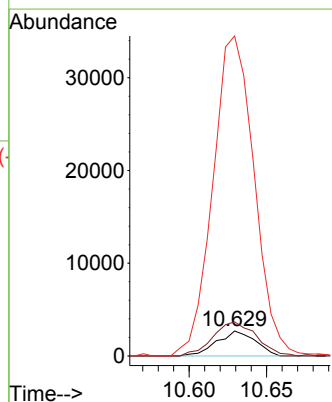
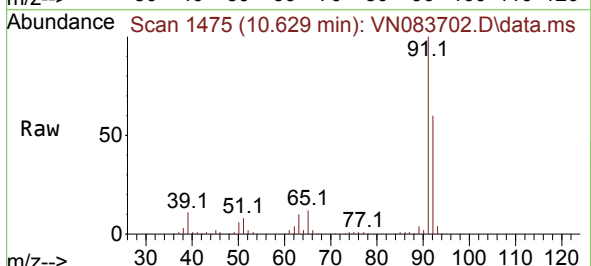
Instrument :
 MSVOA_N
 ClientSampleId :
 001-WILLETS-PT-BLVD(SEP)

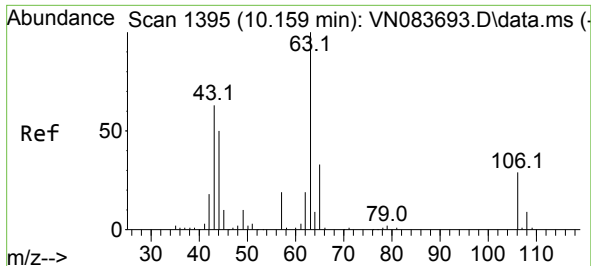
Tgt Ion: 75 Resp: 4645
 Ion Ratio Lower Upper
 75 100
 77 137.2 23.8 35.6#



#49
 cis-1,3-Dichloropropene
 Concen: 1.490 ug/l
 RT: 10.629 min Scan# 1475
 Delta R.T. 0.318 min
 Lab File: VN083702.D
 Acq: 06 Sep 2024 17:36

Tgt Ion: 75 Resp: 4645
 Ion Ratio Lower Upper
 75 100
 77 137.2 24.9 37.3#
 39 1253.2 31.0 46.6#

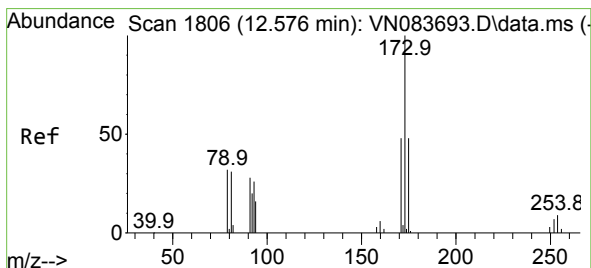
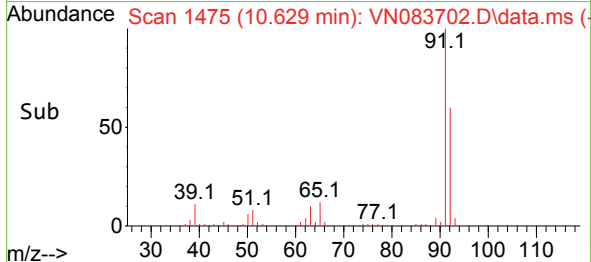
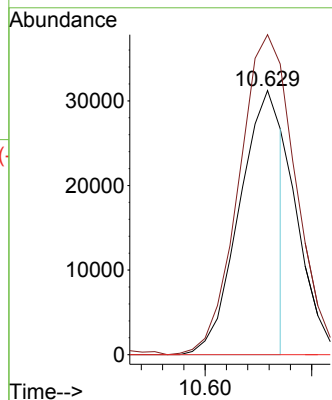
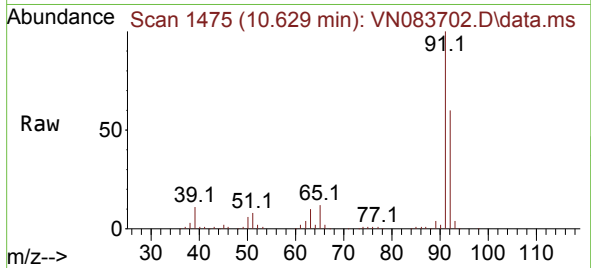




#55
2-Chloroethyl vinyl ether
Concen: 37.281 ug/l
RT: 10.629 min Scan# 14
Delta R.T. 0.470 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

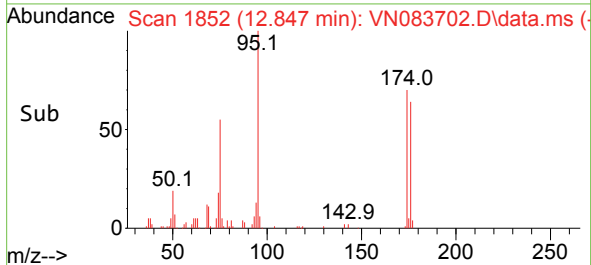
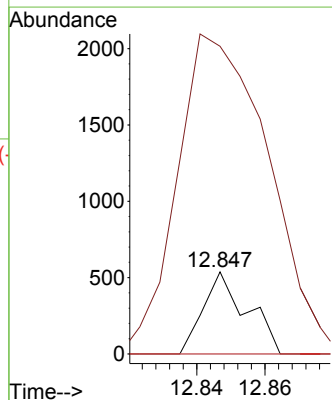
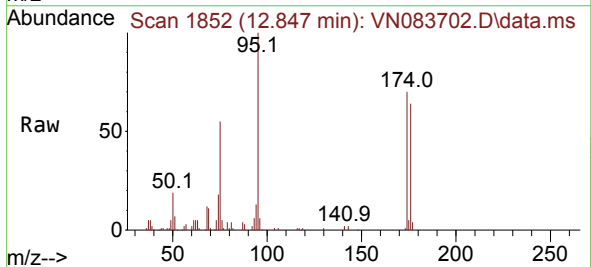
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

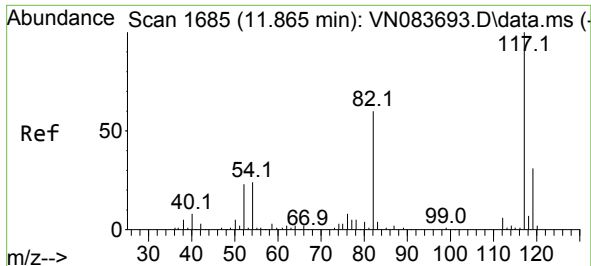
Tgt Ion: 63 Resp: 43276
Ion Ratio Lower Upper
63 100
65 124.4 26.2 39.2#
106 0.0 23.8 35.8#



#56
Bromoform
Concen: 0.366 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

Tgt Ion:173 Resp: 476
Ion Ratio Lower Upper
173 100
175 815.3 40.0 60.0#
254 0.0 8.3 12.5#





#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1

Delta R.T. -0.000 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(SEP)

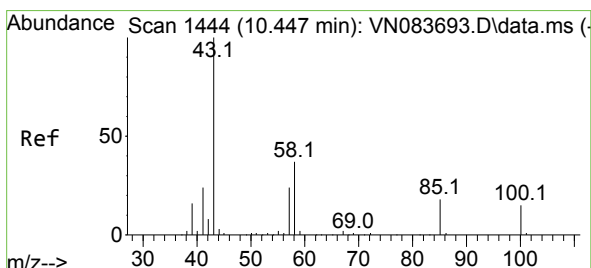
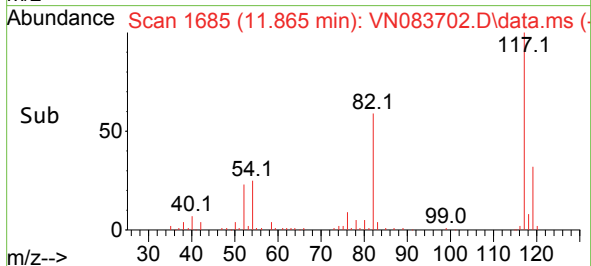
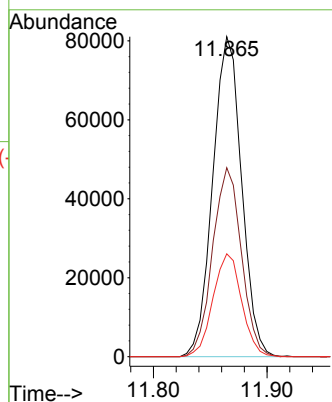
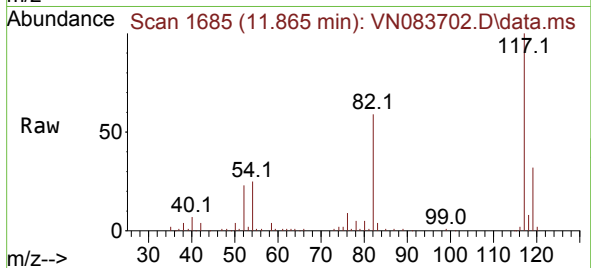
Tgt Ion:117 Resp: 143027

Ion Ratio Lower Upper

117 100

82 59.0 46.6 69.8

119 31.9 25.4 38.2



#58

4-Methyl-2-Pentanone

Concen: 4.791 ug/l

RT: 10.447 min Scan# 1444

Delta R.T. -0.000 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

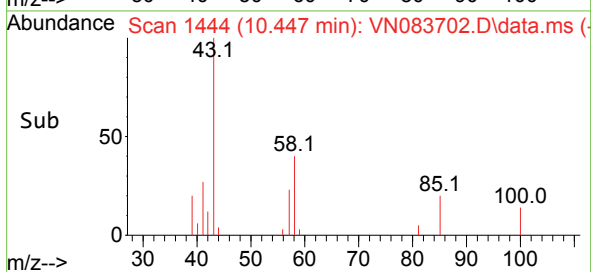
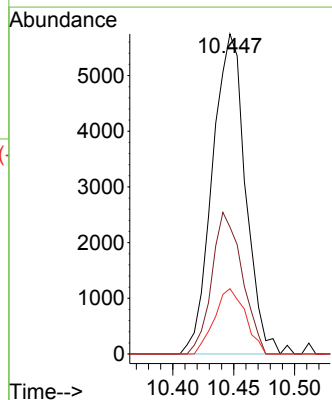
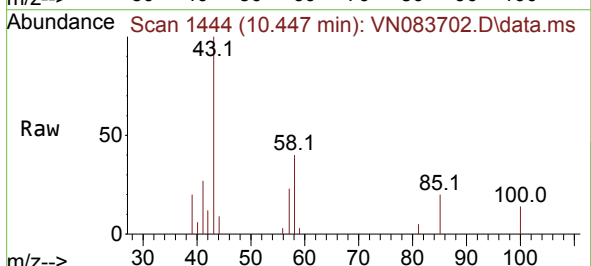
Tgt Ion: 43 Resp: 10865

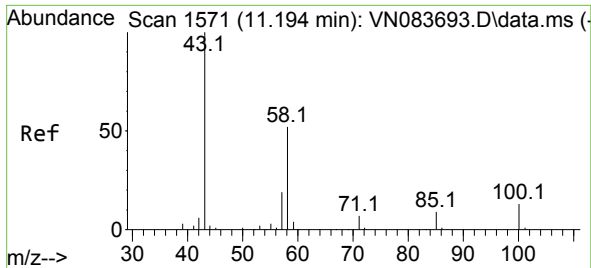
Ion Ratio Lower Upper

43 100

58 40.7 36.5 54.7

85 19.1 19.5 29.3#

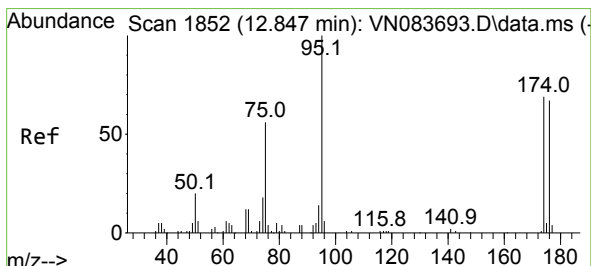
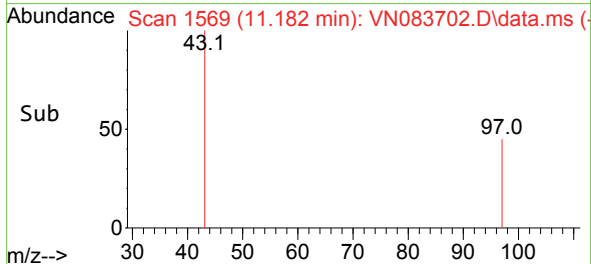
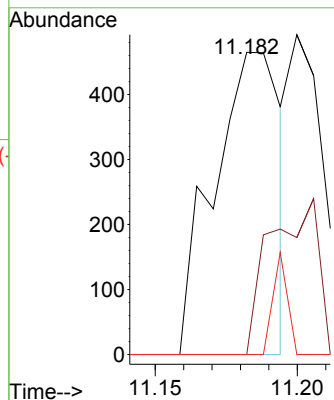
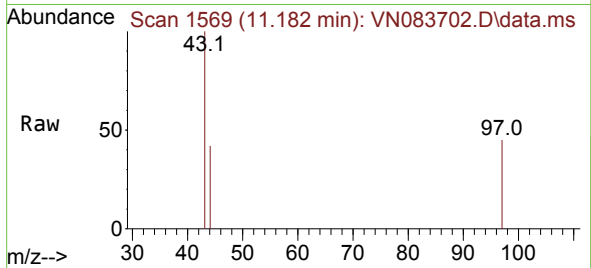




#59
2-Hexanone
Concen: 0.444 ug/l
RT: 11.182 min Scan# 1569
Delta R.T. -0.012 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

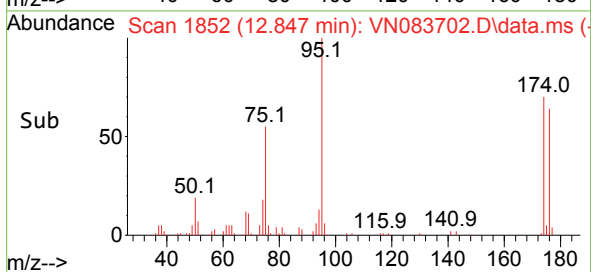
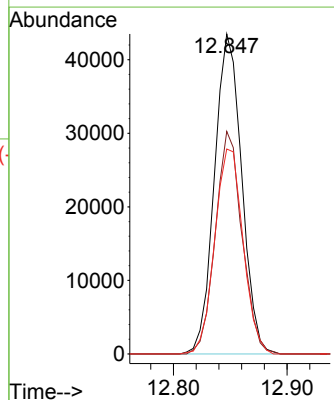
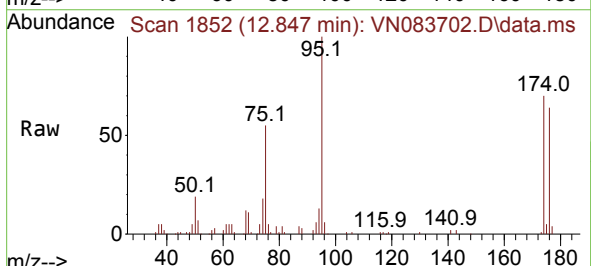
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

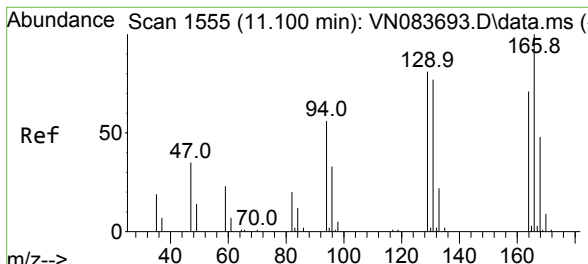
Tgt Ion: 43 Resp: 760
Ion Ratio Lower Upper
43 100
58 25.9 50.4 75.6#
57 0.0 18.6 27.8#



#60
4-Bromofluorobenzene
Concen: 29.427 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

Tgt Ion: 95 Resp: 72540
Ion Ratio Lower Upper
95 100
174 68.0 60.5 90.7
176 66.6 57.8 86.6



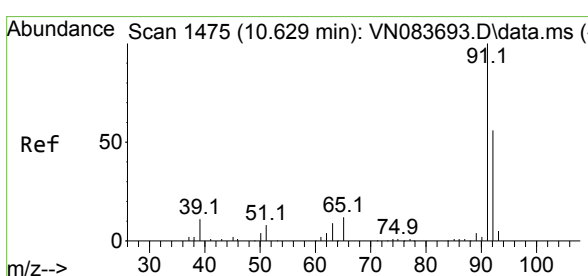
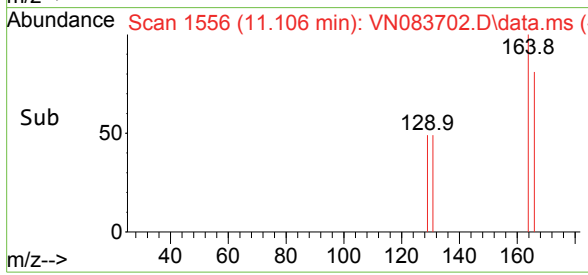
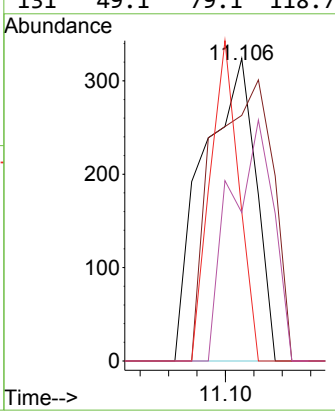
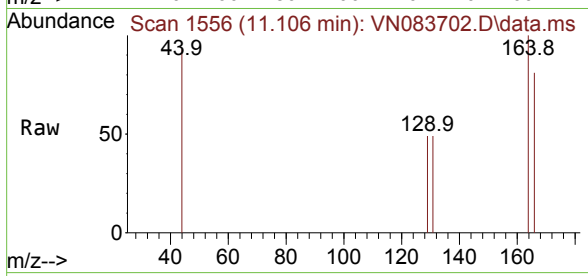


#61
 Tetrachloroethene
 Concen: 0.276 ug/l
 RT: 11.106 min Scan# 1556
 Delta R.T. 0.006 min
 Lab File: VN083702.D
 Acq: 06 Sep 2024 17:36

Instrument : MSVOA_N
 ClientSampleId : 001-WILLETS-PT-BLVD(SEP)

Tgt Ion:164 Resp: 418

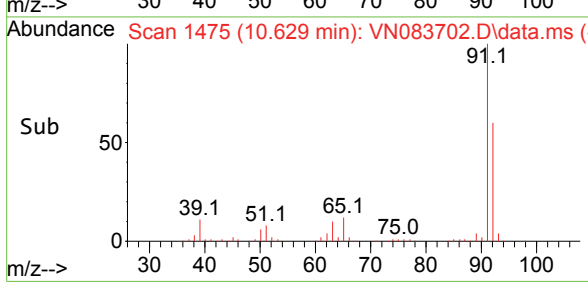
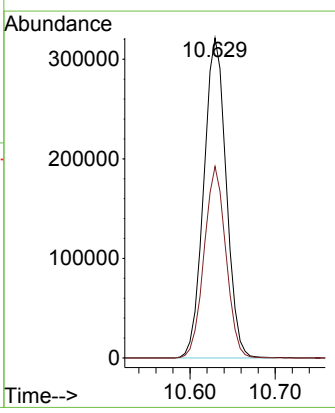
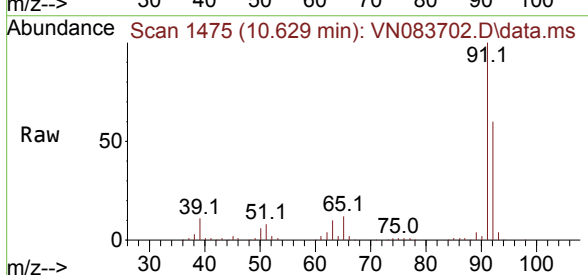
Ion	Ratio	Lower	Upper
164	100		
166	81.2	106.7	160.1#
129	49.4	85.8	128.6#
131	49.1	79.1	118.7#

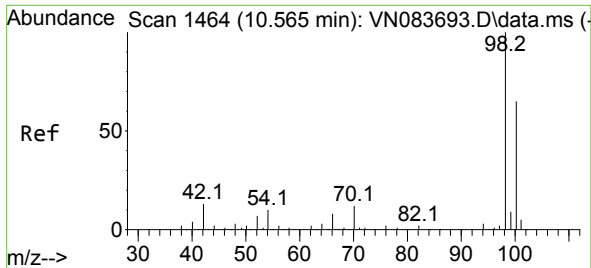


#62
 Toluene
 Concen: 71.298 ug/l
 RT: 10.629 min Scan# 1475
 Delta R.T. -0.000 min
 Lab File: VN083702.D
 Acq: 06 Sep 2024 17:36

Tgt Ion: 91 Resp: 586140

Ion	Ratio	Lower	Upper
91	100		
92	58.2	46.5	69.7

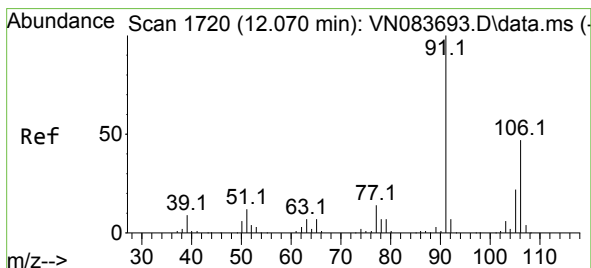
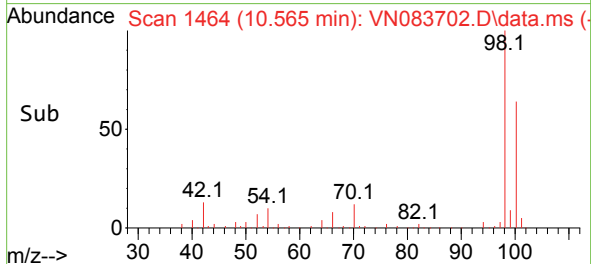
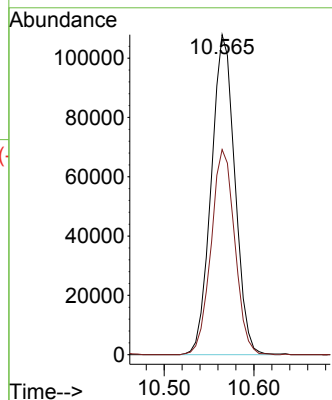
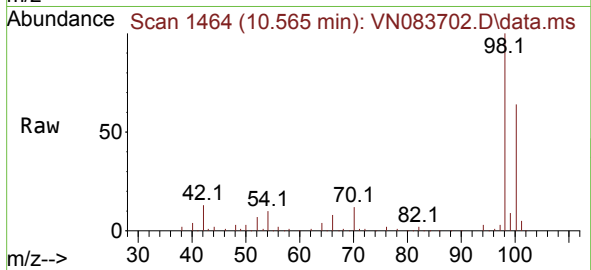




#63
Toluene-d8
Concen: 29.752 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

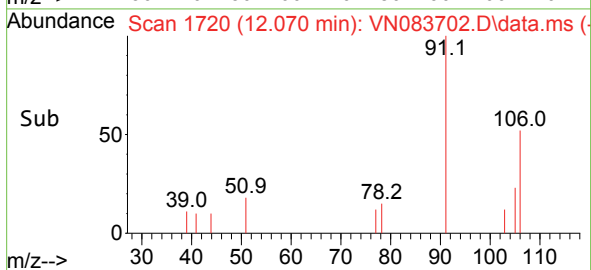
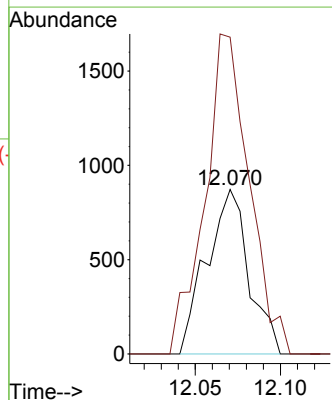
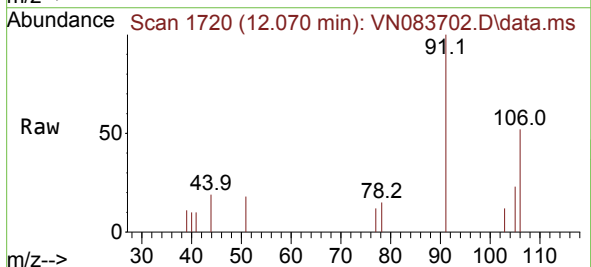
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

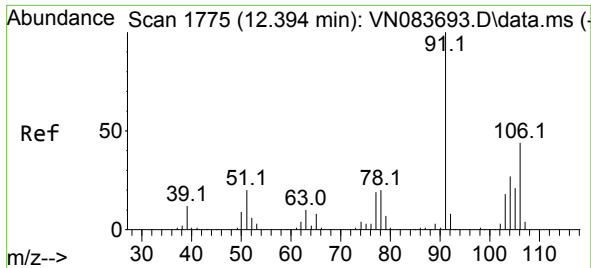
Tgt Ion: 98 Resp: 197035
Ion Ratio Lower Upper
98 100
100 64.2 52.7 79.1



#67
m/p-Xylenes
Concen: 0.437 ug/l
RT: 12.070 min Scan# 1720
Delta R.T. -0.000 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

Tgt Ion:106 Resp: 1504
Ion Ratio Lower Upper
106 100
91 204.5 166.6 249.8

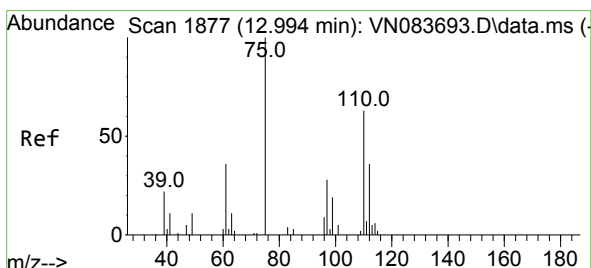
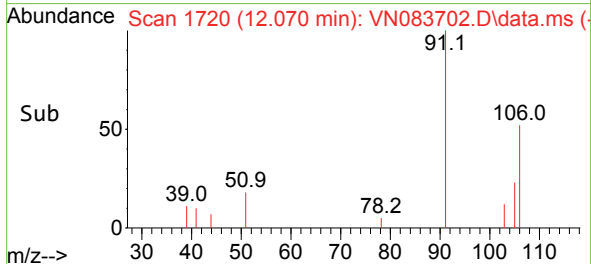
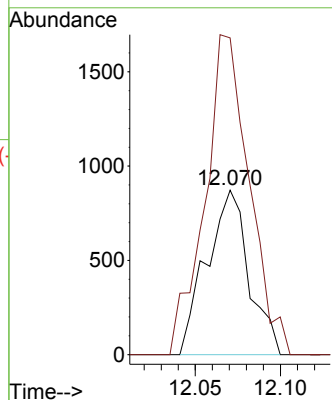
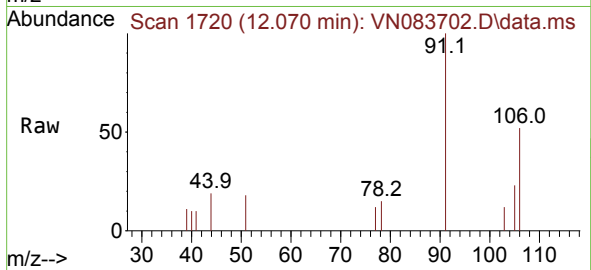




#68
o-Xylene
Concen: 0.452 ug/l
RT: 12.070 min Scan# 11
Delta R.T. -0.324 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

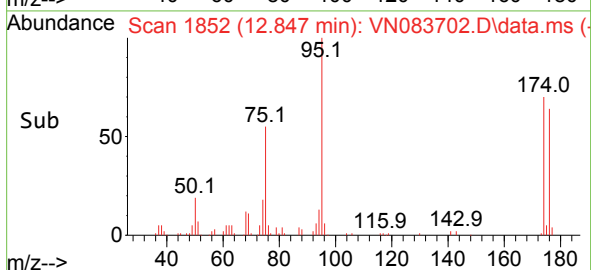
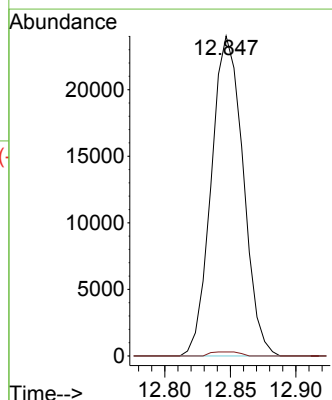
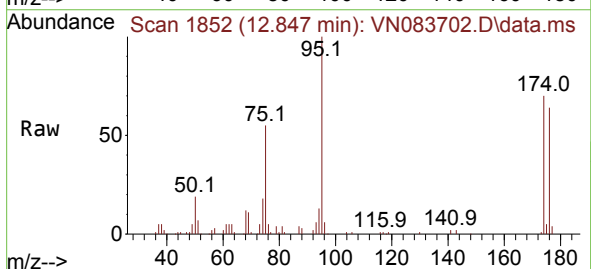
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

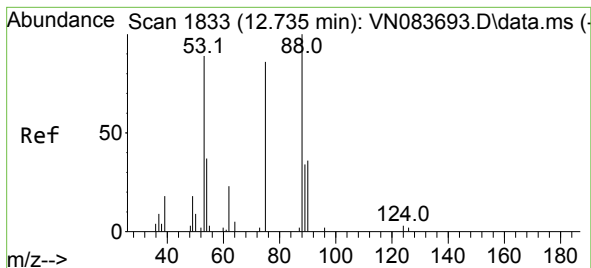
Tgt Ion:106 Resp: 1504
Ion Ratio Lower Upper
106 100
91 204.5 110.0 330.0



#72
1,2,3-Trichloropropane
Concen: 19.307 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN083702.D
Acq: 06 Sep 2024 17:36

Tgt Ion: 75 Resp: 40615
Ion Ratio Lower Upper
75 100
77 1.2 0.0 367.6





#77

t-1,4-Dichloro-2-butene

Concen: 45.677 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(SEP)

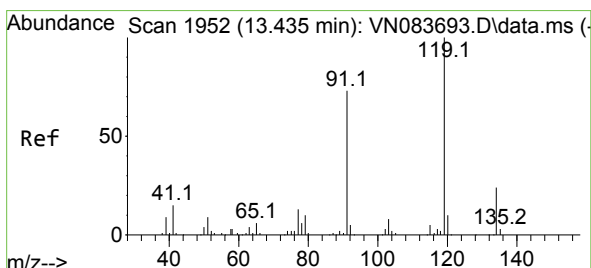
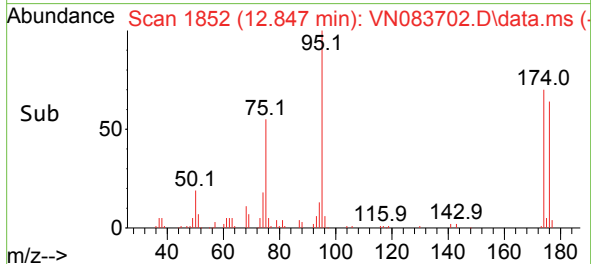
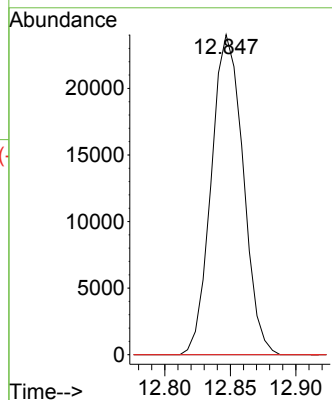
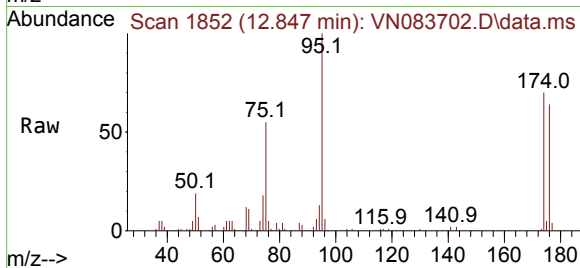
Tgt Ion: 75 Resp: 40615

Ion Ratio Lower Upper

75 100

53 0.0 45.9 137.7#

89 0.0 25.9 77.7#



#79

tert-butylbenzene

Concen: 2.821 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.294 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

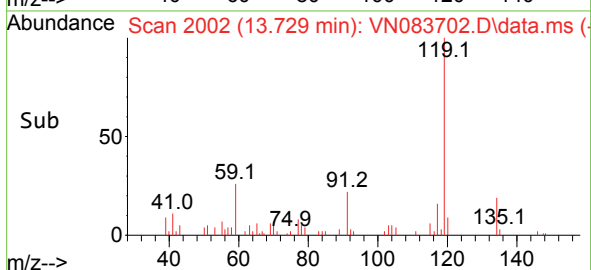
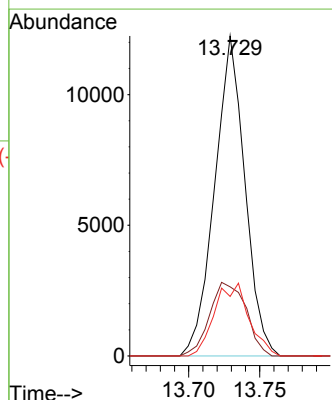
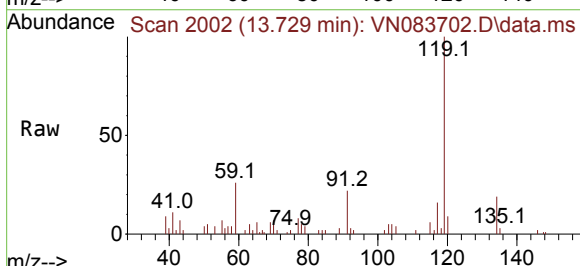
Tgt Ion: 119 Resp: 18101

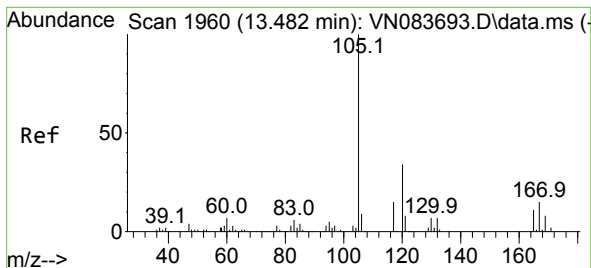
Ion Ratio Lower Upper

119 100

91 27.7 0.0 138.8

134 25.9 0.0 48.6





#80

1,2,4-Trimethylbenzene

Concen: 0.482 ug/l

RT: 13.482 min Scan# 1960

Delta R.T. -0.000 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

Instrument :

MSVOA_N

ClientSampleId :

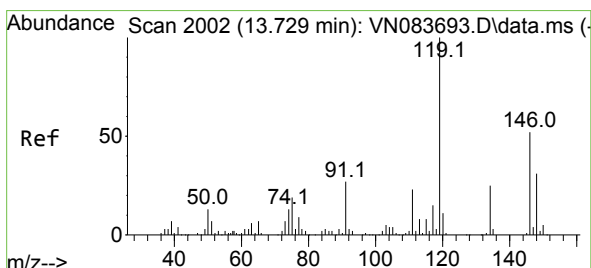
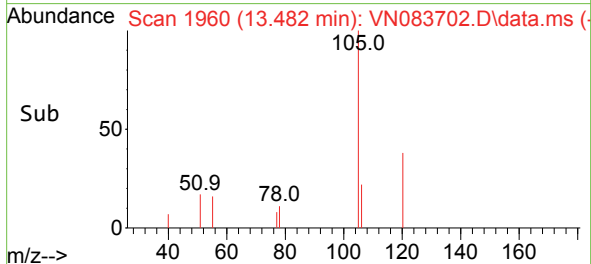
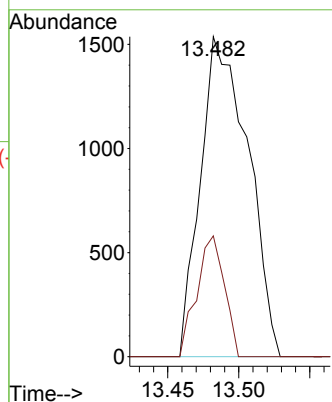
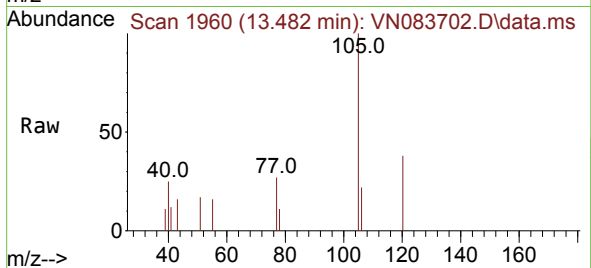
001-WILLETS-PT-BLVD(SEP)

Tgt Ion:105 Resp: 3572

Ion Ratio Lower Upper

105 100

120 21.9 0.0 86.8



#82

p-Isopropyltoluene

Concen: 2.454 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. -0.000 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

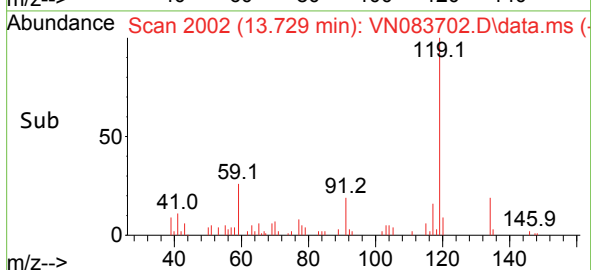
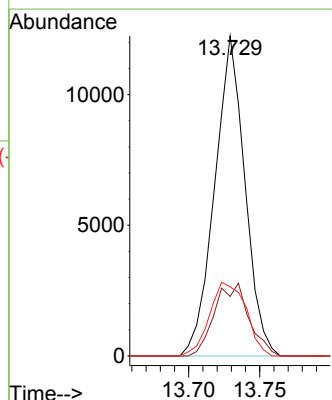
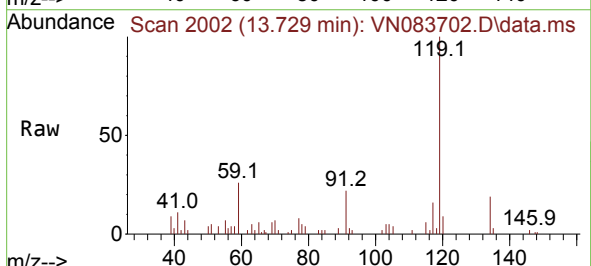
Tgt Ion:119 Resp: 18101

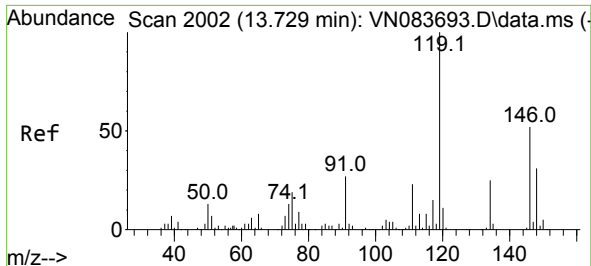
Ion Ratio Lower Upper

119 100

134 25.9 0.0 49.2

91 27.7 0.0 48.8





#83

1,3-Dichlorobenzene

Concen: 0.230 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. 0.082 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(SEP)

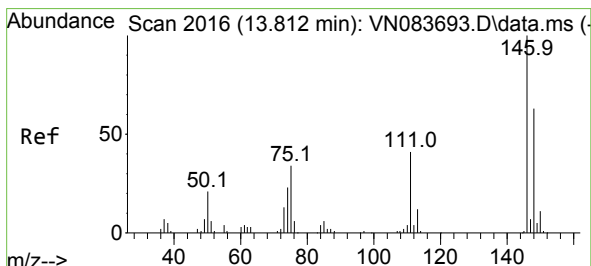
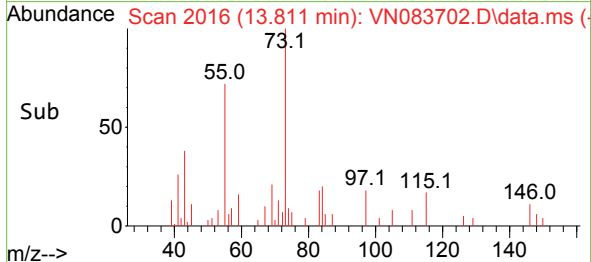
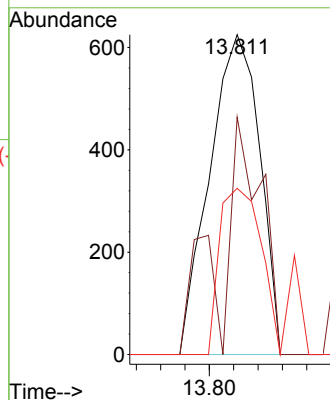
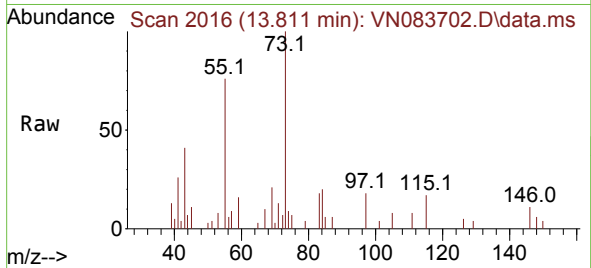
Tgt Ion:146 Resp: 893

Ion Ratio Lower Upper

146 100

111 44.1 22.4 67.0

148 43.4 32.1 96.5



#84

1,4-Dichlorobenzene

Concen: 0.230 ug/l

RT: 13.811 min Scan# 2016

Delta R.T. -0.000 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

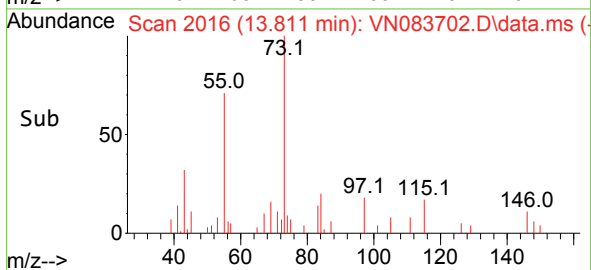
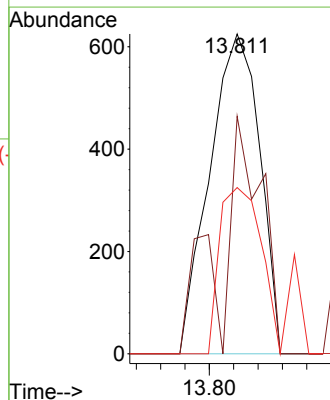
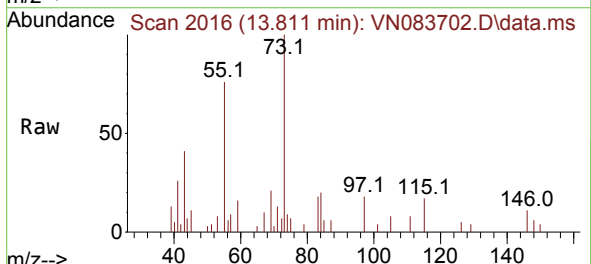
Tgt Ion:146 Resp: 893

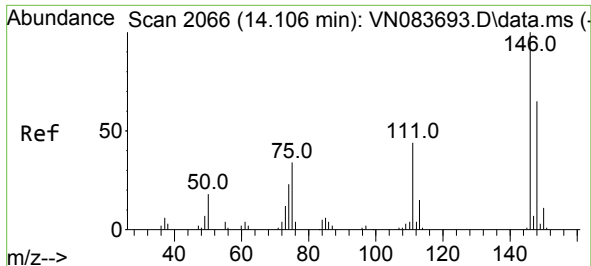
Ion Ratio Lower Upper

146 100

111 44.1 21.3 63.9

148 43.4 31.9 95.5





#87

1,2-Dichlorobenzene

Concen: 0.237 ug/l

RT: 13.811 min Scan# 2066

Delta R.T. -0.294 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(SEP)

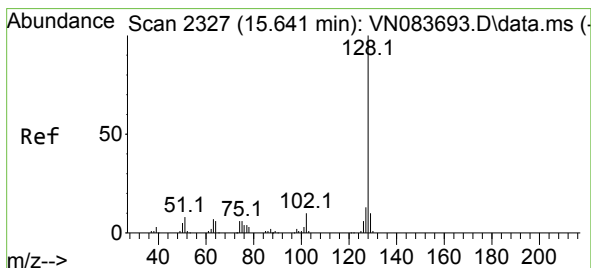
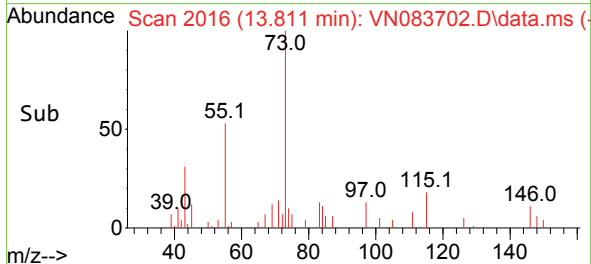
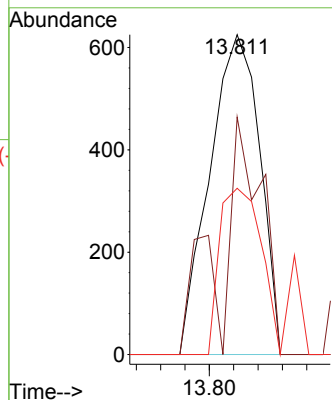
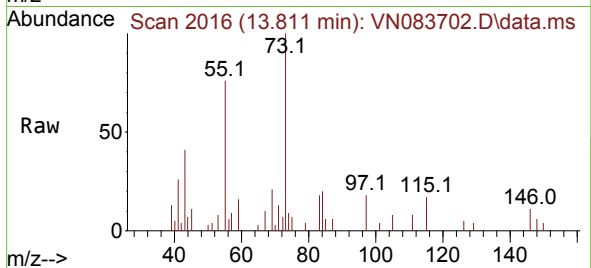
Tgt Ion:146 Resp: 893

Ion Ratio Lower Upper

146 100

111 44.1 22.6 67.8

148 43.4 31.3 93.8



#91

Naphthalene

Concen: 0.410 ug/l

RT: 15.647 min Scan# 2328

Delta R.T. 0.006 min

Lab File: VN083702.D

Acq: 06 Sep 2024 17:36

Tgt Ion:128 Resp: 2769

Ion Ratio Lower Upper

128 100

127 7.2 10.6 16.0#

129 0.0 8.6 13.0#

