

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080923\
 Data File : VN078819.D
 Acq On : 09 Aug 2023 14:43
 Operator : JC\MD
 Sample : 03940-01DL 10X
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

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

Quant Time: Aug 10 05:29:35 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 09 05:05:47 2023
 Response via : Initial Calibration

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

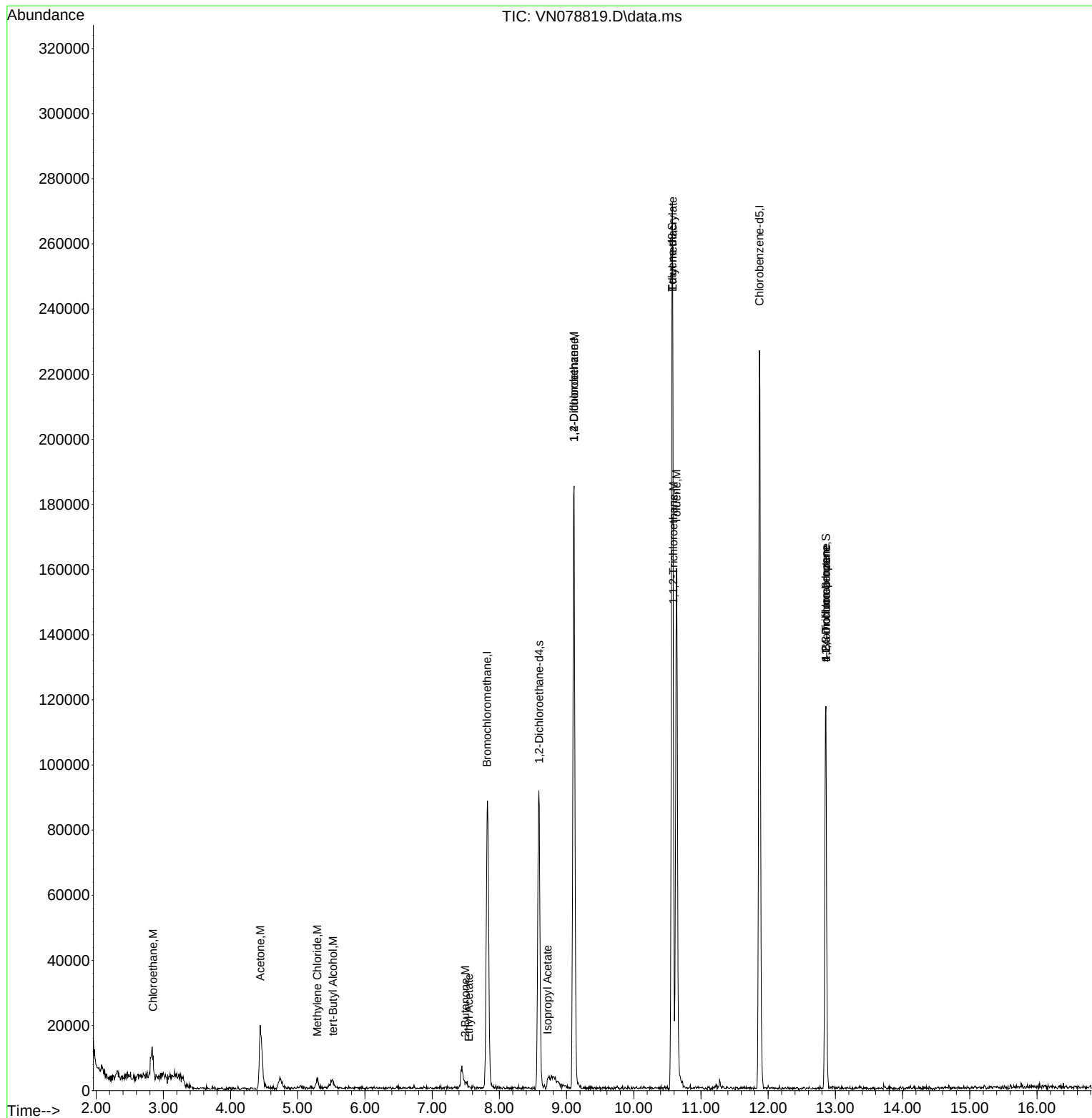
Internal Standards						
1) Bromochloromethane	7.818	128	29525	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	152668	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	130930	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.594	65	70650	29.722	ug/l	0.01
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.067%
60) 4-Bromofluorobenzene	12.859	95	40149	21.846	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	72.833%
63) Toluene-d8	10.571	98	184620	28.775	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	95.933%
Target Compounds						
					Qvalue	
6) Chloroethane	2.848	64	434	0.265	ug/l	93
15) Acetone	4.442	58	10459	43.106	ug/l	91
18) Methylene Chloride	5.289	84	456	0.222	ug/l #	10
23) tert-Butyl Alcohol	5.524	59	1117	3.192	ug/l #	100
30) 2-Butanone	7.494	43	1893	1.557	ug/l #	94
36) 1,2-Dichloroethane	9.112	62	7097	2.690	ug/l #	75
43) Ethyl Acetate	7.547	43	555	0.220	ug/l #	66
44) Isopropyl Acetate	8.718	43	968	0.214	ug/l #	1
50) 1,1,2-Trichloroethane	10.588	97	6625	3.667	ug/l #	10
51) Ethyl methacrylate	10.576	69	533	0.210	ug/l #	5
62) Toluene	10.635	91	120207	15.594	ug/l	97
72) 1,2,3-Trichloropropane	12.859	75	23376	10.950	ug/l	1
77) t-1,4-Dichloro-2-butene	12.859	75	23376	34.887	ug/l #	15

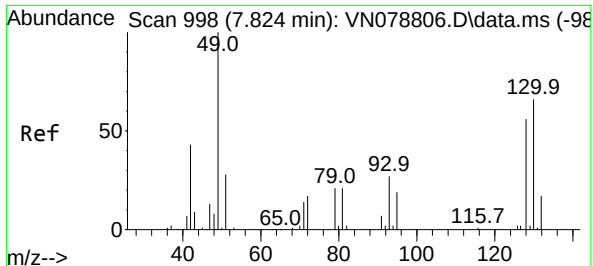
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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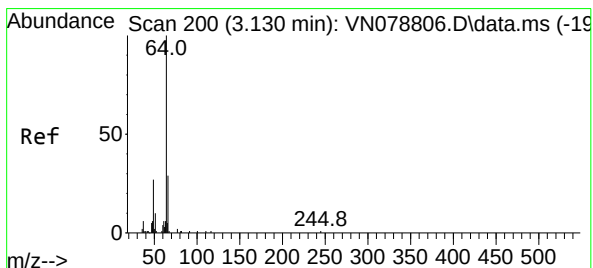
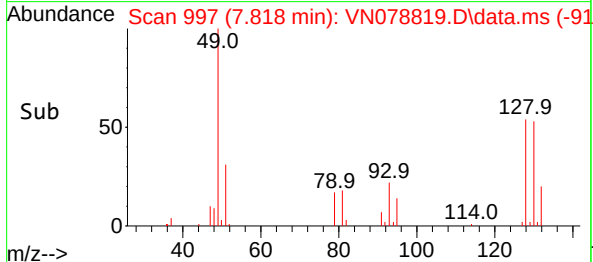
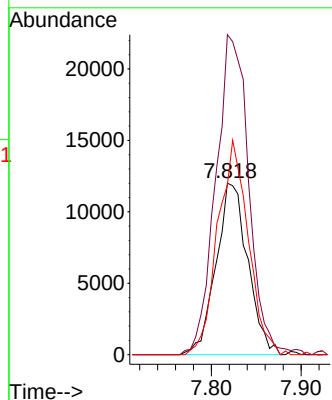
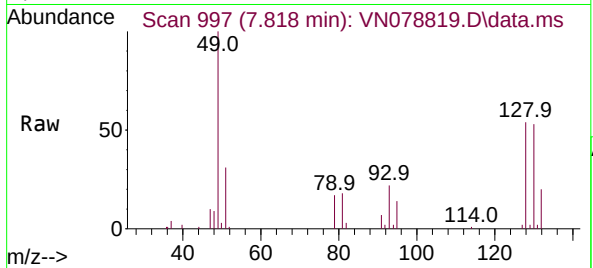




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.818 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN078819.D
Acq: 09 Aug 2023 14:43

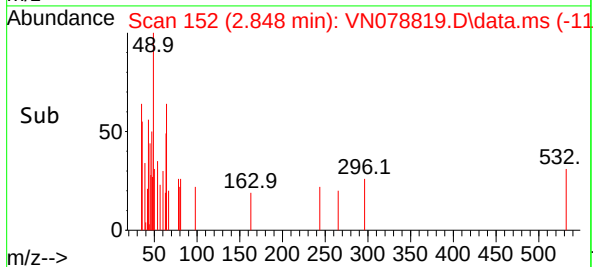
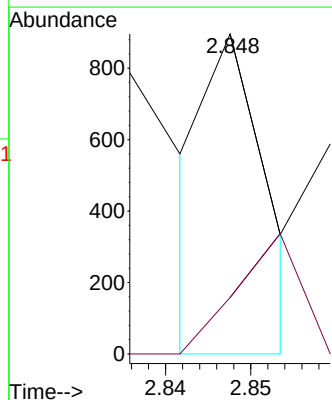
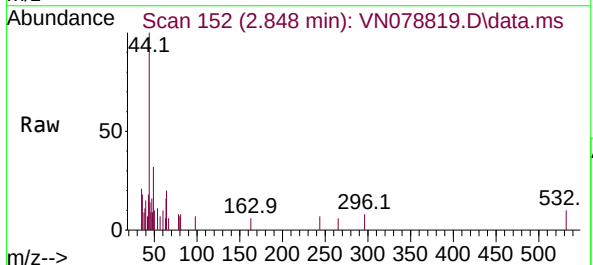
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

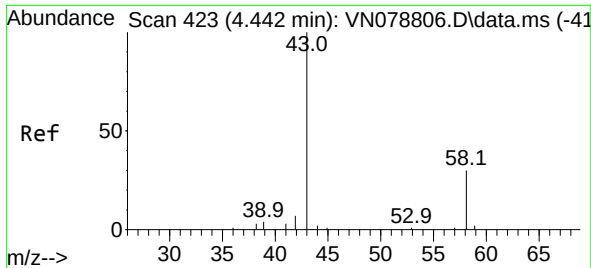
Tgt Ion:128 Resp: 29525
Ion Ratio Lower Upper
128 100
49 193.1 0.0 370.8
130 120.2 0.0 307.0



#6
Chloroethane
Concen: 0.265 ug/l
RT: 2.848 min Scan# 152
Delta R.T. -0.282 min
Lab File: VN078819.D
Acq: 09 Aug 2023 14:43

Tgt Ion: 64 Resp: 434
Ion Ratio Lower Upper
64 100
66 28.1 25.7 38.5





#15

Acetone

Concen: 43.106 ug/l

RT: 4.442 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN078819.D

Acq: 09 Aug 2023 14:43

Instrument :

MSVOA_N

ClientSampleId :

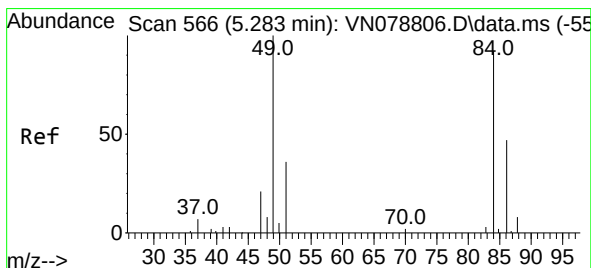
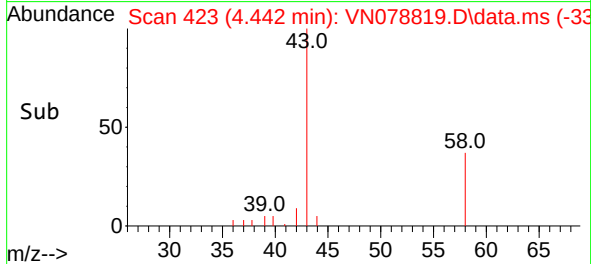
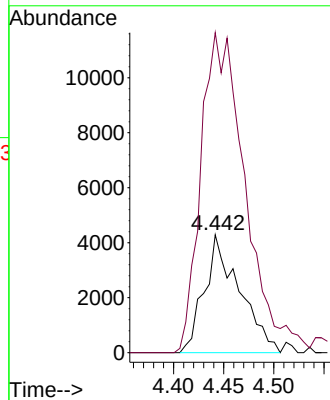
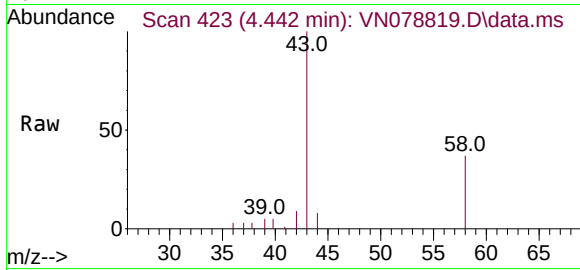
001-WILLETS-PT-BLVD(JUNE)DL

Tgt Ion: 58 Resp: 10459

Ion Ratio Lower Upper

58 100

43 267.8 227.5 341.3



#18

Methylene Chloride

Concen: 0.222 ug/l

RT: 5.289 min Scan# 567

Delta R.T. 0.006 min

Lab File: VN078819.D

Acq: 09 Aug 2023 14:43

Tgt Ion: 84 Resp: 456

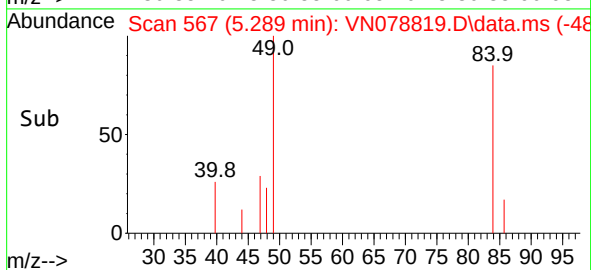
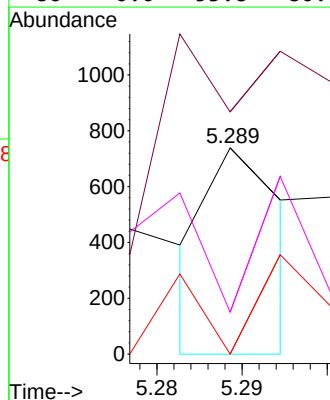
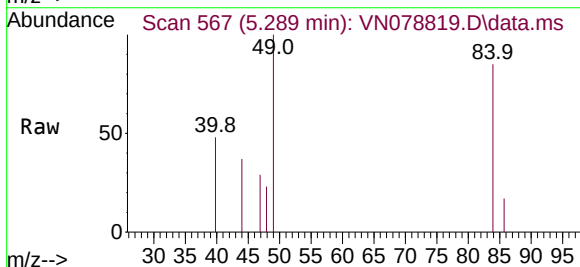
Ion Ratio Lower Upper

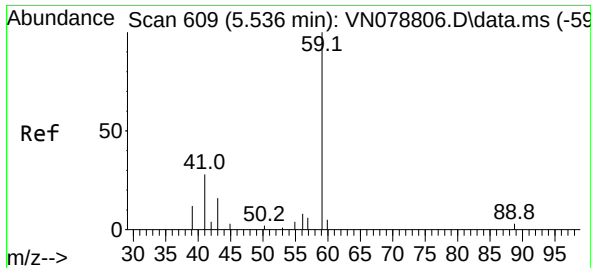
84 100

49 0.0 88.1 132.1#

51 0.0 24.0 36.0#

86 0.0 53.8 80.8#

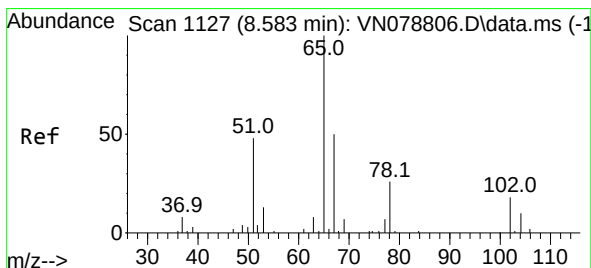
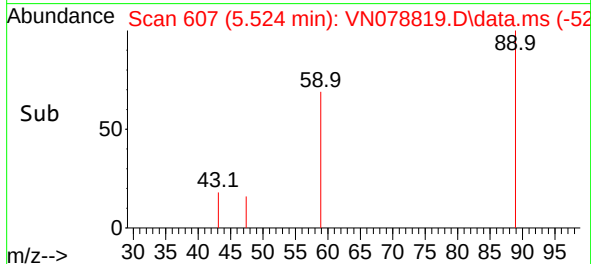
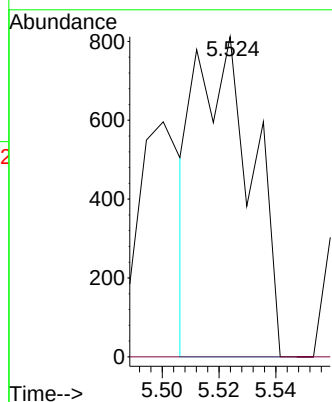
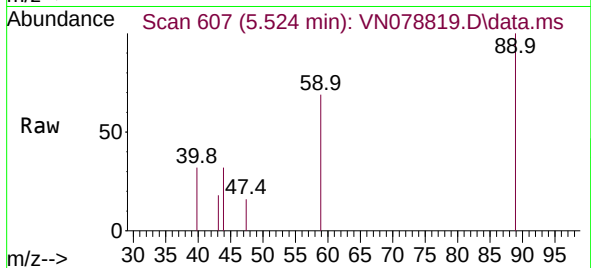




#23
tert-Butyl Alcohol
Concen: 3.192 ug/l
RT: 5.524 min Scan# 609
Delta R.T. -0.012 min
Lab File: VN078819.D
Acq: 09 Aug 2023 14:43

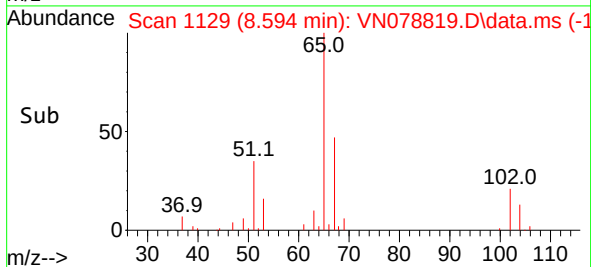
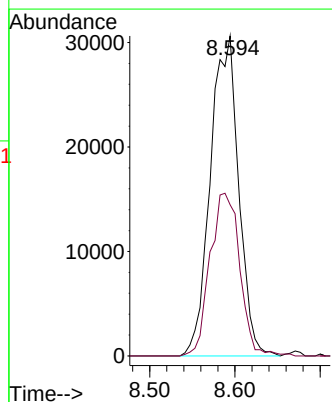
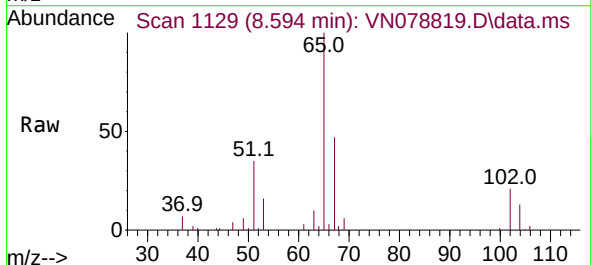
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

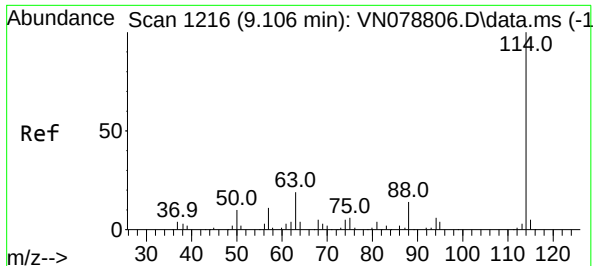
Tgt Ion: 59 Resp: 1117
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 29.722 ug/l
RT: 8.594 min Scan# 1129
Delta R.T. 0.012 min
Lab File: VN078819.D
Acq: 09 Aug 2023 14:43

Tgt Ion: 65 Resp: 70650
Ion Ratio Lower Upper
65 100
67 53.0 42.9 64.3





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.112 min Scan# 1

Delta R.T. 0.006 min

Lab File: VN078819.D

Acq: 09 Aug 2023 14:43

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)DL

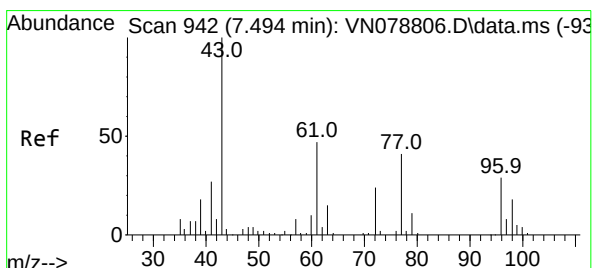
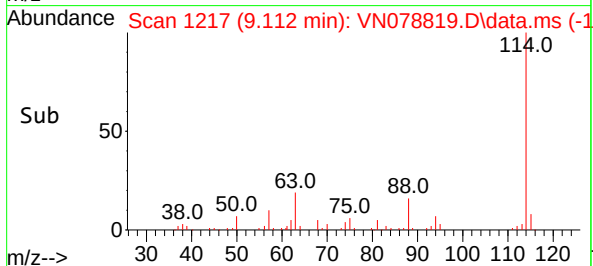
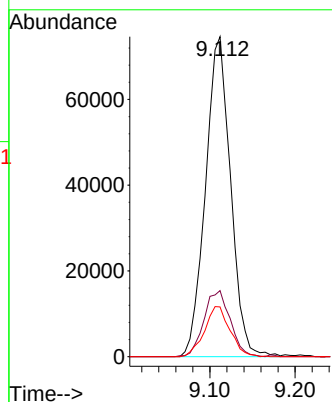
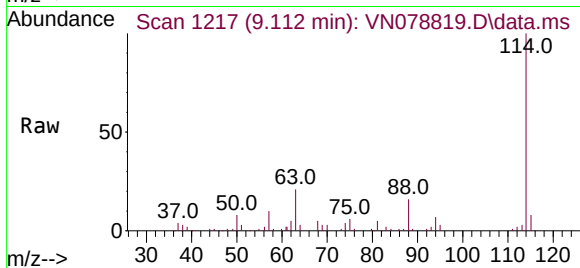
Tgt Ion:114 Resp: 152668

Ion Ratio Lower Upper

114 100

63 21.6 15.2 22.8

88 15.9 12.5 18.7



#30

2-Butanone

Concen: 1.557 ug/l

RT: 7.494 min Scan# 942

Delta R.T. -0.000 min

Lab File: VN078819.D

Acq: 09 Aug 2023 14:43

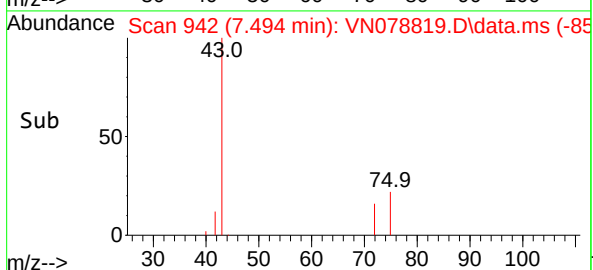
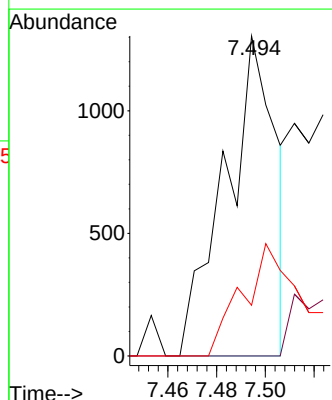
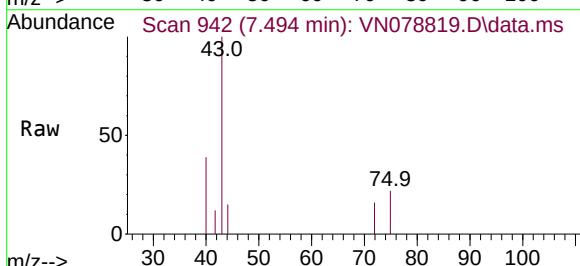
Tgt Ion: 43 Resp: 1893

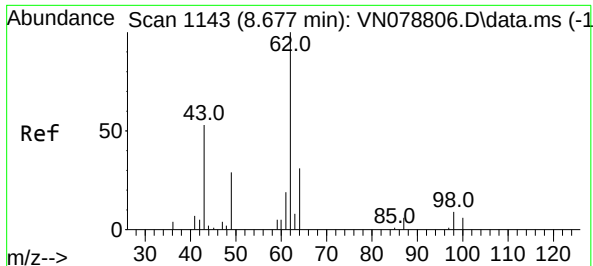
Ion Ratio Lower Upper

43 100

57 12.6 6.8 10.2#

72 27.0 23.8 35.6





#36

1,2-Dichloroethane

Concen: 2.690 ug/l

RT: 9.112 min Scan# 1143

Delta R.T. 0.435 min

Lab File: VN078819.D

Acq: 09 Aug 2023 14:43

Instrument :

MSVOA_N

ClientSampleId :

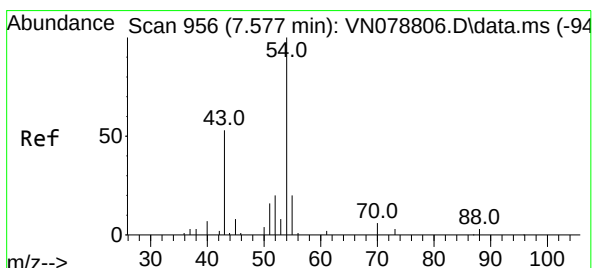
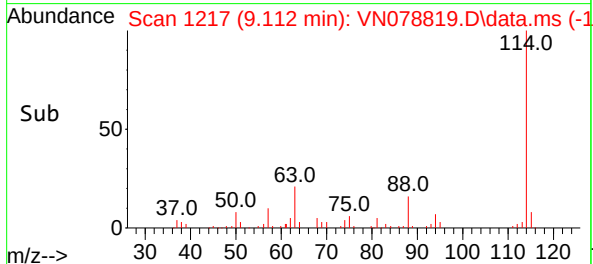
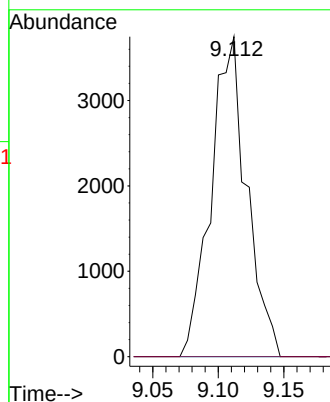
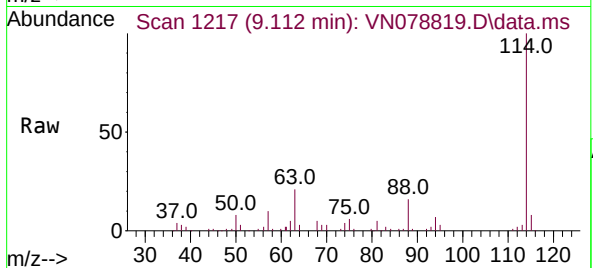
001-WILLETS-PT-BLVD(JUNE)DL

Tgt Ion: 62 Resp: 7097

Ion Ratio Lower Upper

62 100

98 0.0 7.4 11.0#



#43

Ethyl Acetate

Concen: 0.220 ug/l

RT: 7.547 min Scan# 951

Delta R.T. -0.030 min

Lab File: VN078819.D

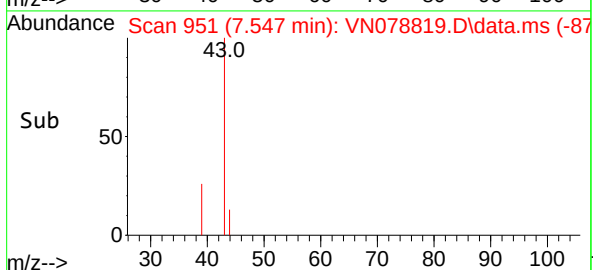
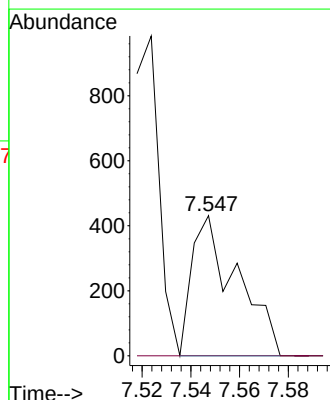
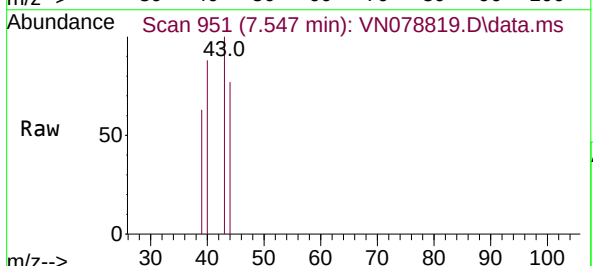
Acq: 09 Aug 2023 14:43

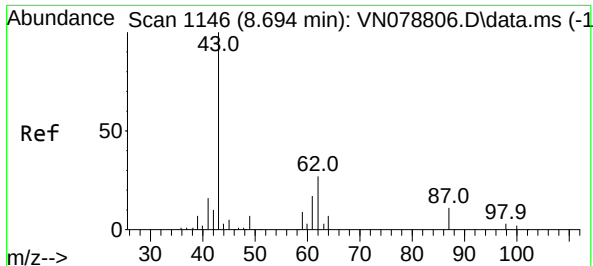
Tgt Ion: 43 Resp: 555

Ion Ratio Lower Upper

43 100

45 0.0 10.9 16.3#

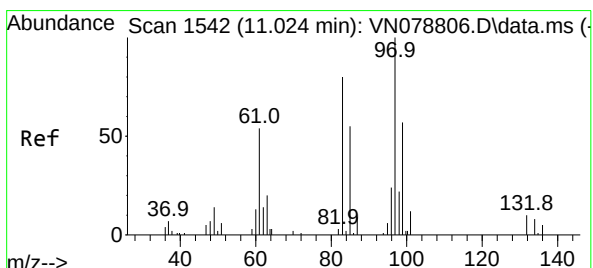
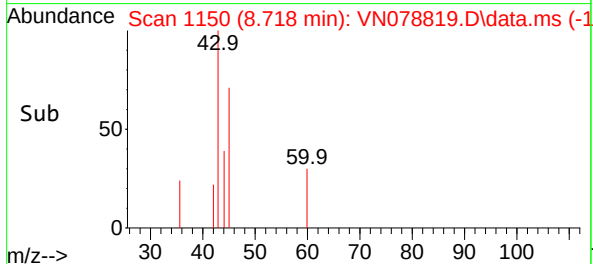
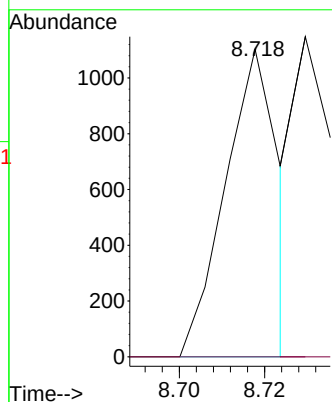
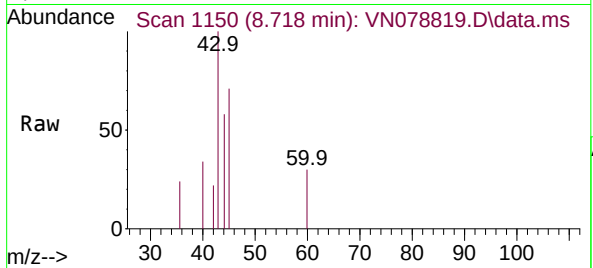




#44
Isopropyl Acetate
Concen: 0.214 ug/l
RT: 8.718 min Scan# 1146
Delta R.T. 0.023 min
Lab File: VN078819.D
Acq: 09 Aug 2023 14:43

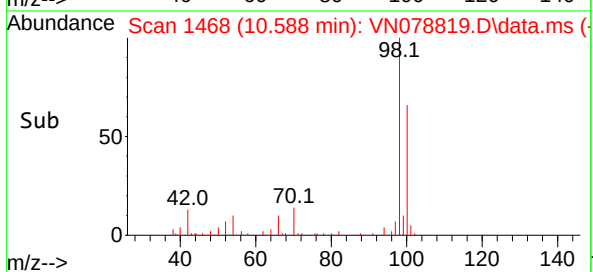
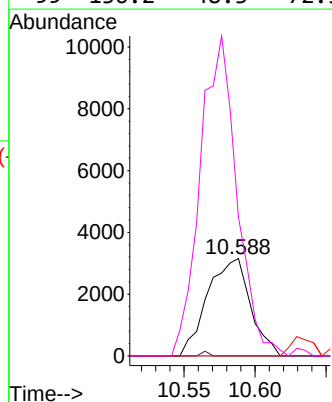
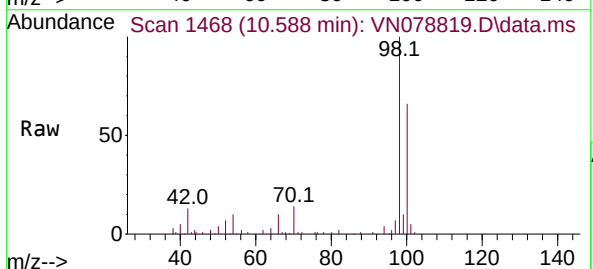
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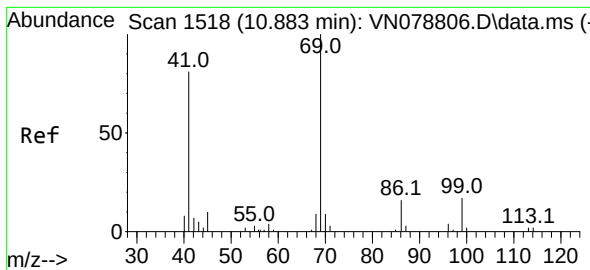
Tgt Ion: 43 Resp: 968
Ion Ratio Lower Upper
43 100
61 118.7 23.0 34.6#



#50
1,1,2-Trichloroethane
Concen: 3.667 ug/l
RT: 10.588 min Scan# 1468
Delta R.T. -0.435 min
Lab File: VN078819.D
Acq: 09 Aug 2023 14:43

Tgt Ion: 97 Resp: 6625
Ion Ratio Lower Upper
97 100
83 0.0 66.8 100.2#
85 0.0 42.5 63.7#
99 136.2 48.3 72.5#





#51

Ethyl methacrylate

Concen: 0.210 ug/l

RT: 10.576 min Scan# 1466

Delta R.T. -0.306 min

Lab File: VN078819.D

Acq: 09 Aug 2023 14:43

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)DL

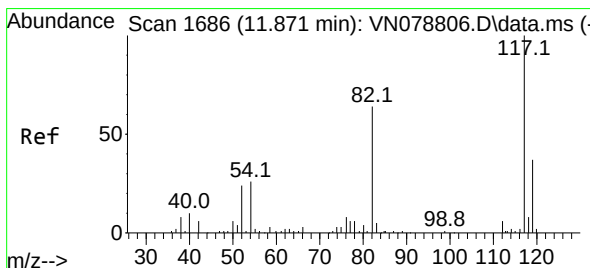
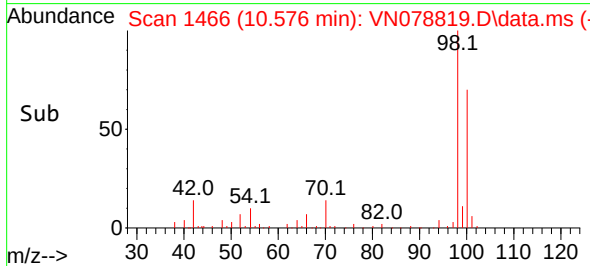
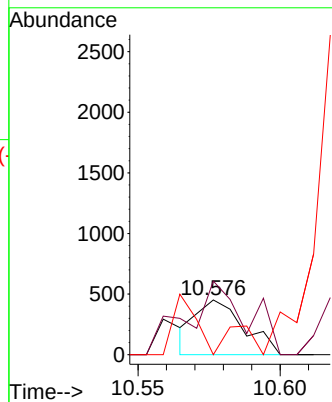
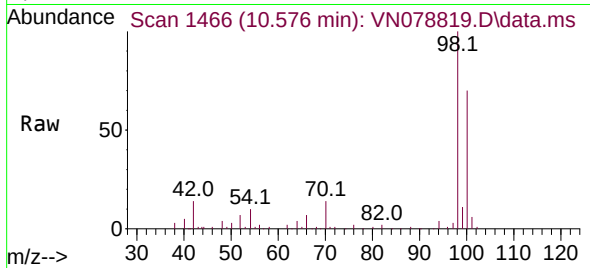
Tgt Ion: 69 Resp: 533

Ion Ratio Lower Upper

69 100

41 134.5 26.0 78.0#

39 0.0 16.3 48.9#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.871 min Scan# 1686

Delta R.T. -0.000 min

Lab File: VN078819.D

Acq: 09 Aug 2023 14:43

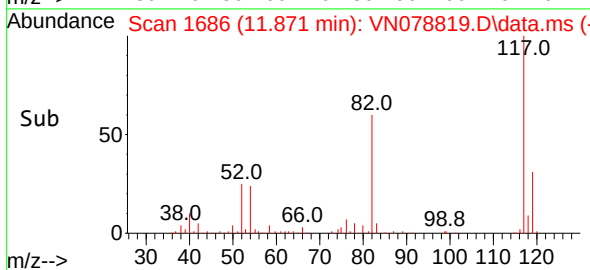
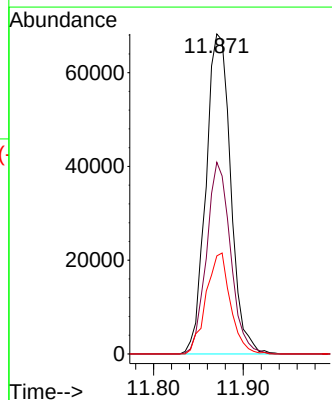
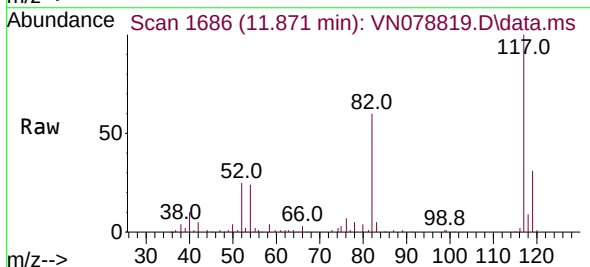
Tgt Ion: 117 Resp: 130930

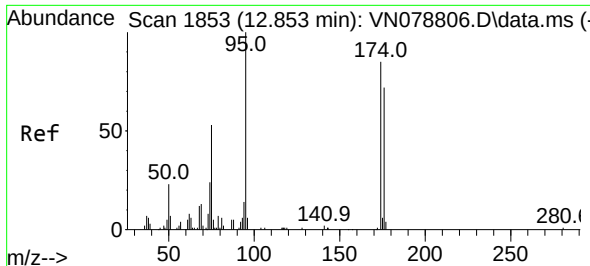
Ion Ratio Lower Upper

117 100

82 58.0 43.9 65.9

119 31.0 26.2 39.4

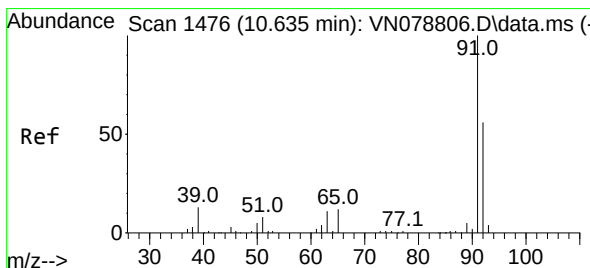
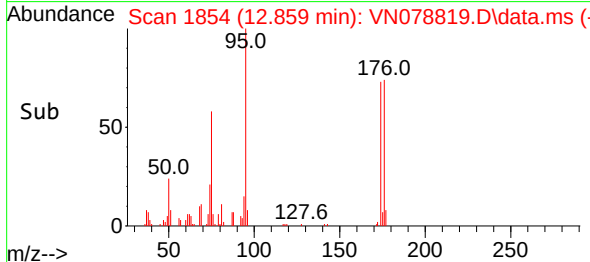
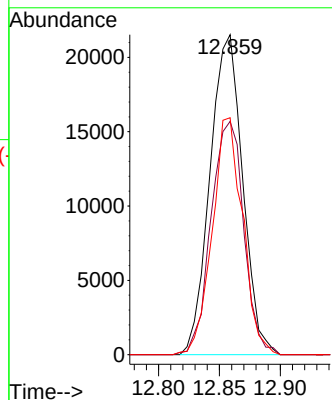
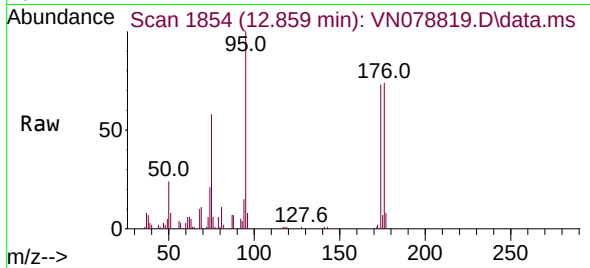




#60
4-Bromofluorobenzene
Concen: 21.846 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.006 min
Lab File: VN078819.D
Acq: 09 Aug 2023 14:43

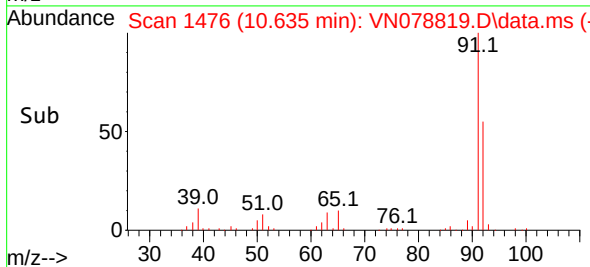
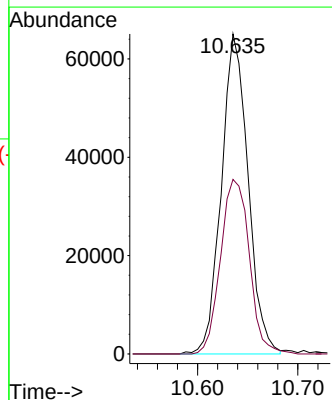
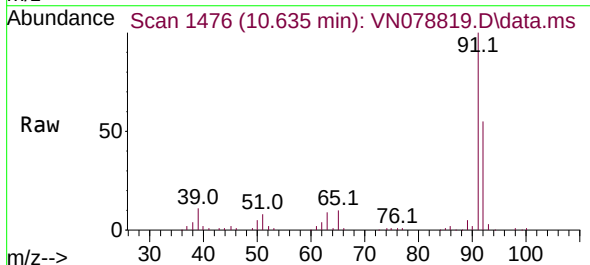
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)DL

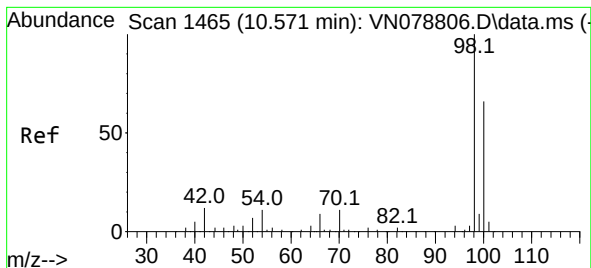
Tgt Ion: 95 Resp: 40149
Ion Ratio Lower Upper
95 100
174 73.1 61.7 92.5
176 68.9 58.1 87.1



#62
Toluene
Concen: 15.594 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN078819.D
Acq: 09 Aug 2023 14:43

Tgt Ion: 91 Resp: 120207
Ion Ratio Lower Upper
91 100
92 58.8 45.2 67.8





#63

Toluene-d8

Concen: 28.775 ug/l

RT: 10.571 min Scan# 1465

Delta R.T. -0.000 min

Lab File: VN078819.D

Acq: 09 Aug 2023 14:43

Instrument :

MSVOA_N

ClientSampleId :

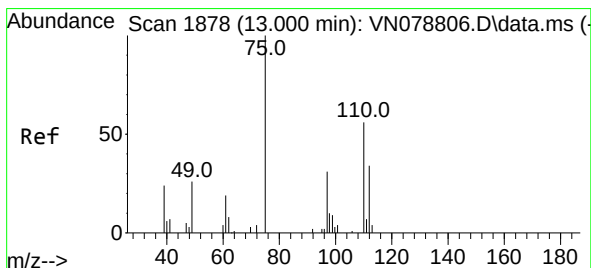
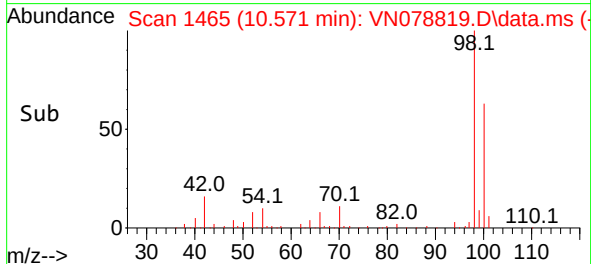
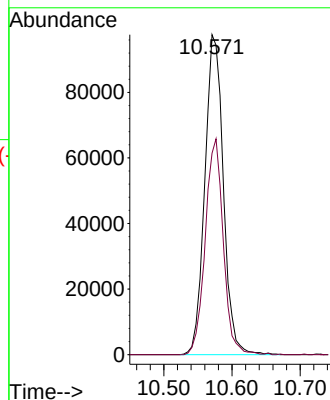
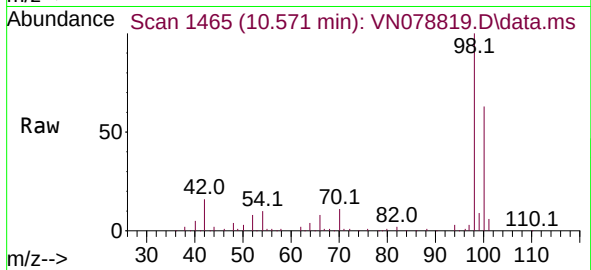
001-WILLETS-PT-BLVD(JUNE)DL

Tgt Ion: 98 Resp: 184620

Ion Ratio Lower Upper

98 100

100 65.2 49.7 74.5



#72

1,2,3-Trichloropropane

Concen: 10.950 ug/l

RT: 12.859 min Scan# 1854

Delta R.T. -0.141 min

Lab File: VN078819.D

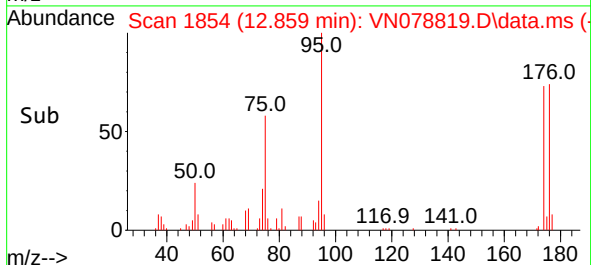
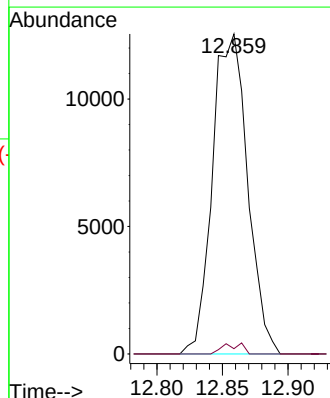
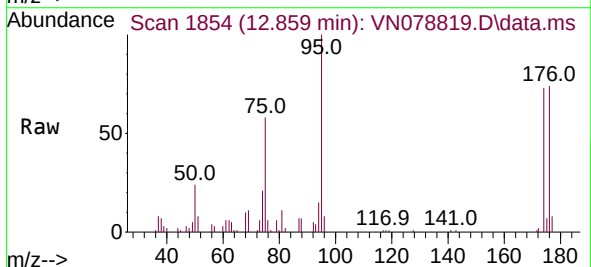
Acq: 09 Aug 2023 14:43

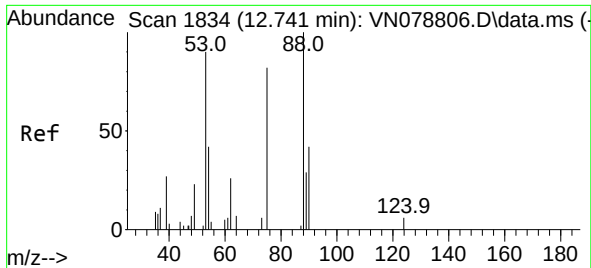
Tgt Ion: 75 Resp: 23376

Ion Ratio Lower Upper

75 100

77 0.7 0.0 387.4





#77

t-1,4-Dichloro-2-butene

Concen: 34.887 ug/l

RT: 12.859 min Scan# 11

Delta R.T. 0.117 min

Lab File: VN078819.D

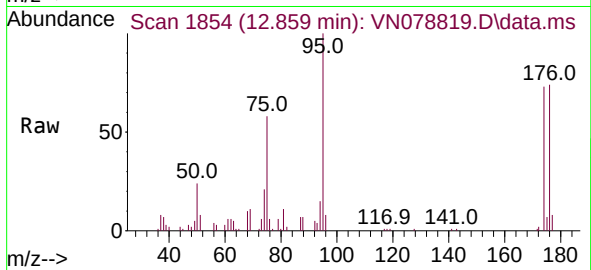
Acq: 09 Aug 2023 14:43

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)DL



Tgt Ion: 75 Resp: 23376

Ion Ratio Lower Upper

75 100

53 0.0 41.6 124.9#

89 0.0 25.1 75.4#

