

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN081123\
 Data File : VN078863.D
 Acq On : 11 Aug 2023 15:15
 Operator : JC\MD
 Sample : 03987-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

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

Quant Time: Aug 12 01:41:41 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)

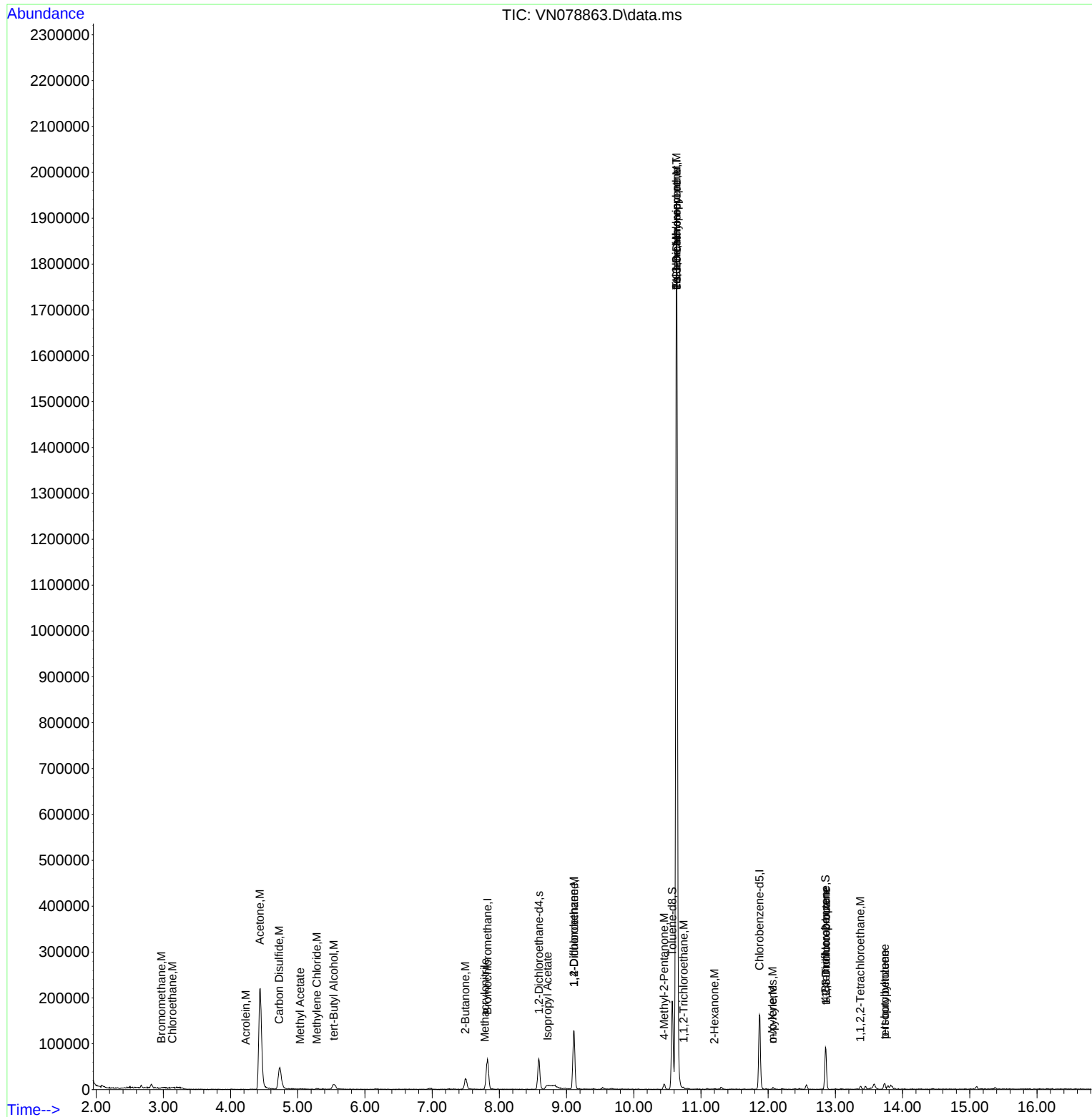
Internal Standards						
1) Bromochloromethane	7.824	128	21011	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	106924	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	91374	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	52528	31.053	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.500%
60) 4-Bromofluorobenzene	12.853	95	29696	23.153	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	77.167%
63) Toluene-d8	10.571	98	127306	28.432	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	94.767%
Target Compounds						
					Qvalue	
5) Bromomethane	2.971	94	417	0.349	ug/l #	3
6) Chloroethane	3.136	64	524	0.449	ug/l #	43
12) Methyl Acetate	5.036	43	744	0.293	ug/l #	49
13) Acrolein	4.224	56	167	0.620	ug/l #	51
15) Acetone	4.436	58	129560	750.338	ug/l	88
16) Carbon Disulfide	4.724	76	683	0.202	ug/l #	74
18) Methylene Chloride	5.283	84	582	0.399	ug/l #	70
23) tert-Butyl Alcohol	5.536	59	10473	42.057	ug/l #	100
30) 2-Butanone	7.494	43	38575	45.306	ug/l #	74
35) Methacrylonitrile	7.783	41	268	0.268	ug/l #	26
36) 1,2-Dichloroethane	9.112	62	4370	2.365	ug/l #	75
44) Isopropyl Acetate	8.718	43	3802	1.198	ug/l #	46
48) t-1,3-Dichloropropene	10.635	75	10460	5.521	ug/l #	1
49) cis-1,3-Dichloropropene	10.635	75	10460	4.964	ug/l #	1
50) 1,1,2-Trichloroethane	10.741	97	1456	1.151	ug/l #	16
55) 2-Chloroethyl vinyl ether	10.635	63	95630	146.204	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	8456	4.815	ug/l #	78
59) 2-Hexanone	11.200	43	372	0.305	ug/l #	56
62) Toluene	10.635	91	1426487	265.170	ug/l	98
67) m/p-Xylenes	12.065	106	1060	0.517	ug/l #	68
68) o-Xylene	12.065	106	1060	0.520	ug/l	63
71) 1,1,2,2-Tetrachloroethane	13.371	83	605	0.354	ug/l #	25
72) 1,2,3-Trichloropropane	12.859	75	18229	12.236	ug/l #	1
77) t-1,4-Dichloro-2-butene	12.859	75	18229	38.982	ug/l #	15
79) tert-butylbenzene	13.735	119	4964	1.512	ug/l	50
82) p-Isopropyltoluene	13.735	119	4964	1.442	ug/l	84

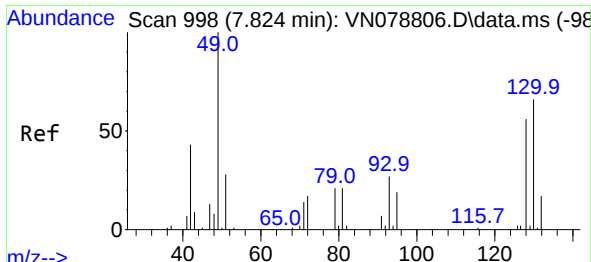
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Aug 09 05:05:47 2023
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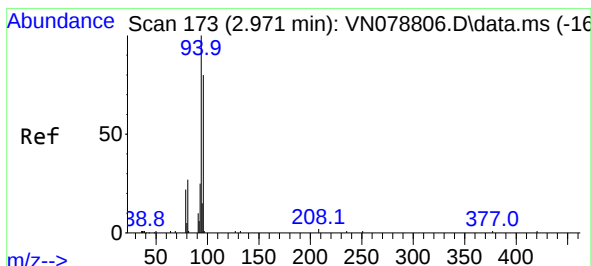
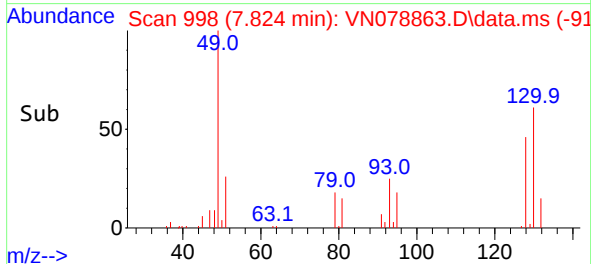
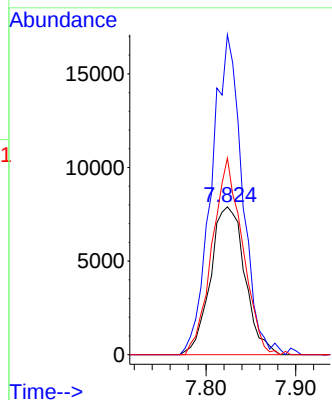
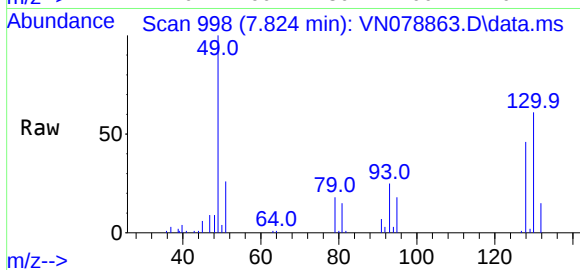




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 998
Delta R.T. -0.000 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

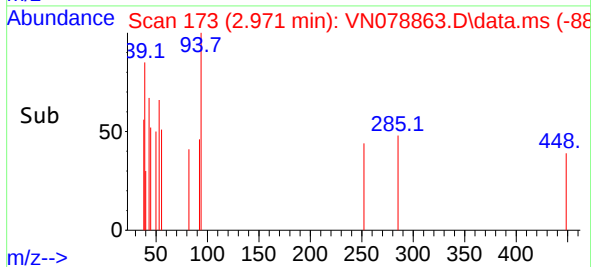
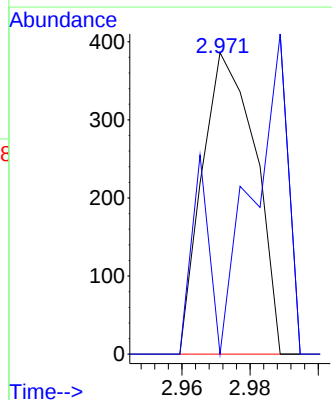
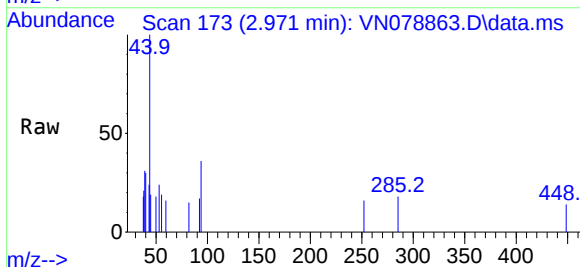
Instrument :
MSVOA_N
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001-WILLETS-PT-BLVD(JULY)

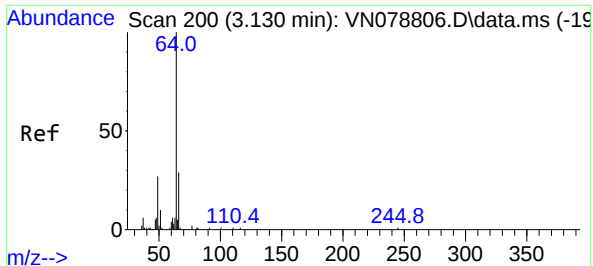
Tgt Ion:128 Resp: 21011
Ion Ratio Lower Upper
128 100
49 192.8 0.0 370.8
130 117.7 0.0 307.0



#5
Bromomethane
Concen: 0.349 ug/l
RT: 2.971 min Scan# 173
Delta R.T. -0.000 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion: 94 Resp: 417
Ion Ratio Lower Upper
94 100
96 0.0 73.9 110.9#

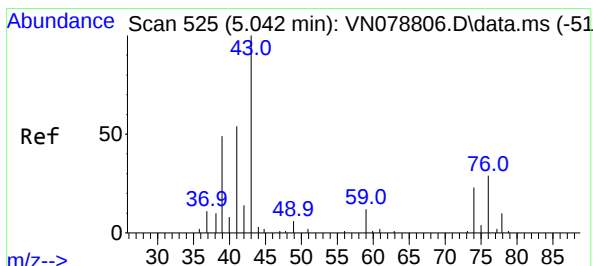
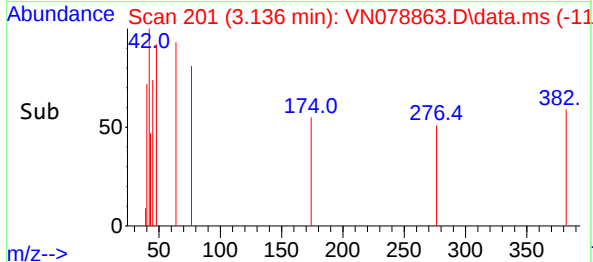
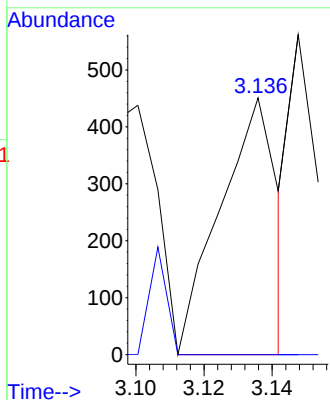
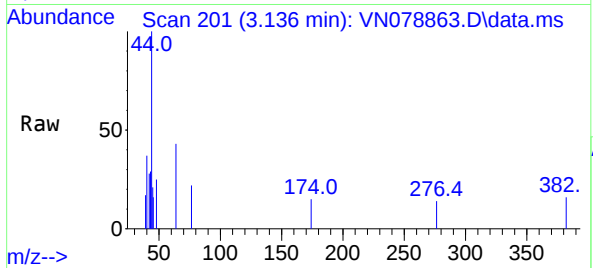




#6
Chloroethane
Concen: 0.449 ug/l
RT: 3.136 min Scan# 20
Delta R.T. 0.006 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

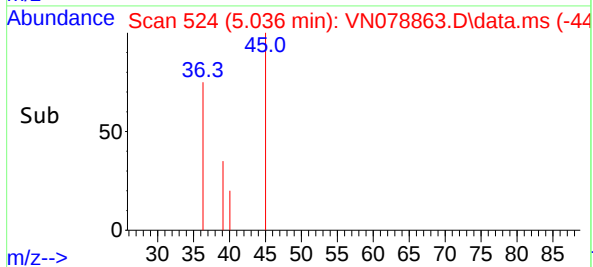
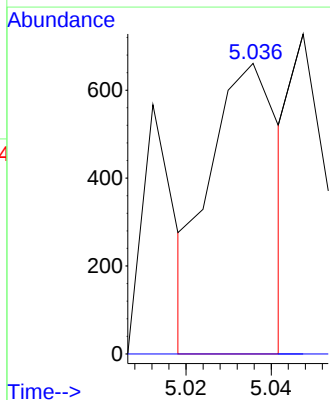
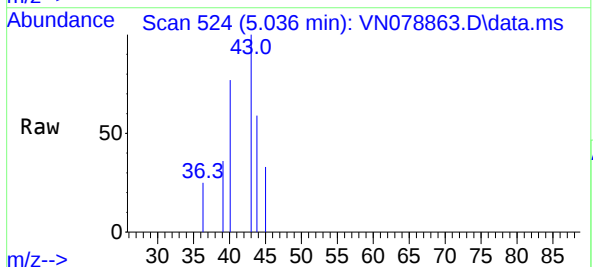
Instrument :
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ClientSampleId :
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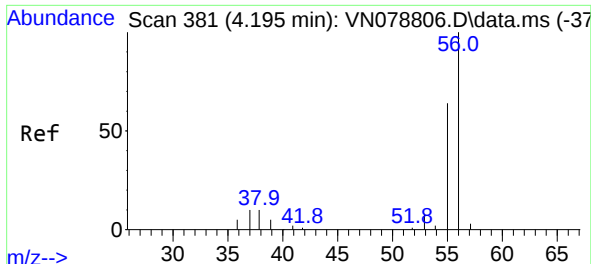
Tgt Ion: 64 Resp: 524
Ion Ratio Lower Upper
64 100
66 0.0 25.7 38.5#



#12
Methyl Acetate
Concen: 0.293 ug/l
RT: 5.036 min Scan# 524
Delta R.T. -0.006 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion: 43 Resp: 744
Ion Ratio Lower Upper
43 100
74 0.0 20.5 30.7#

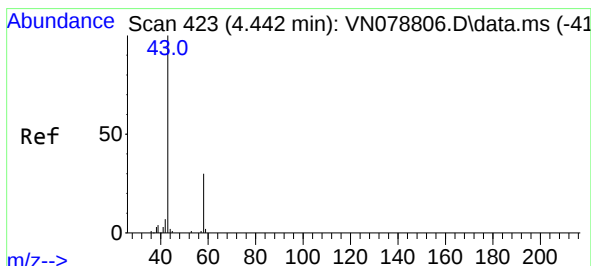
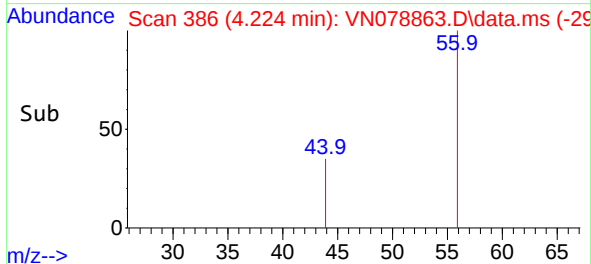
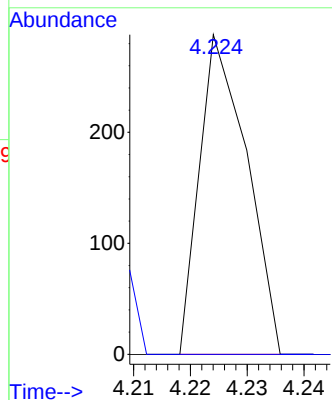
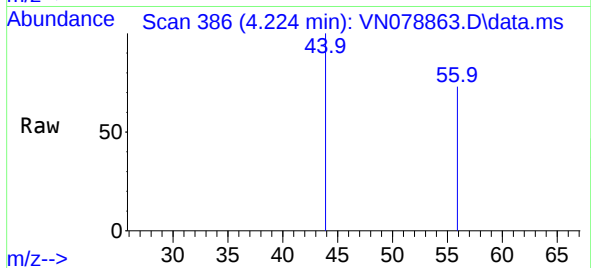




#13
Acrolein
Concen: 0.620 ug/l
RT: 4.224 min Scan# 386
Delta R.T. 0.029 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

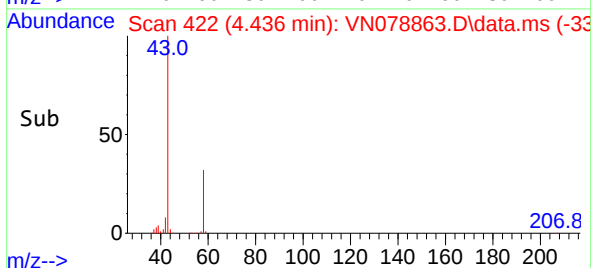
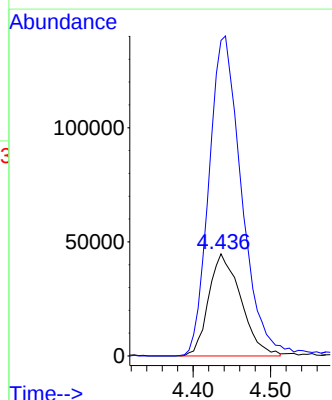
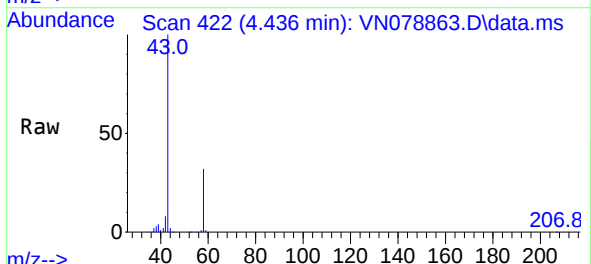
Instrument :
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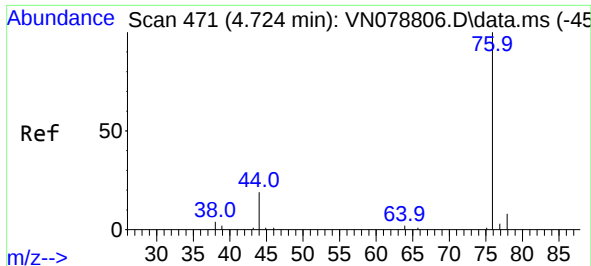
Tgt Ion: 56 Resp: 167
Ion Ratio Lower Upper
56 100
55 32.3 59.0 88.4#



#15
Acetone
Concen: 750.338 ug/l
RT: 4.436 min Scan# 422
Delta R.T. -0.006 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion: 58 Resp: 129560
Ion Ratio Lower Upper
58 100
43 307.9 227.5 341.3

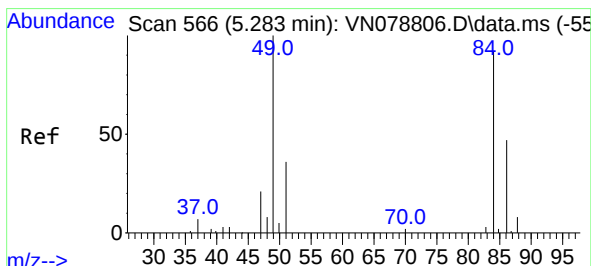
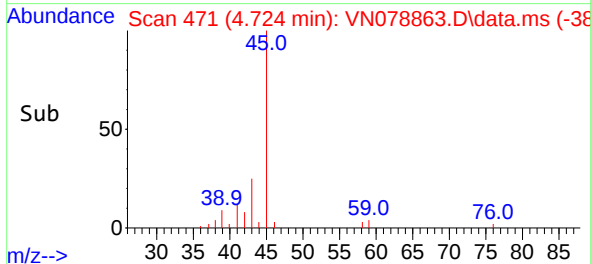
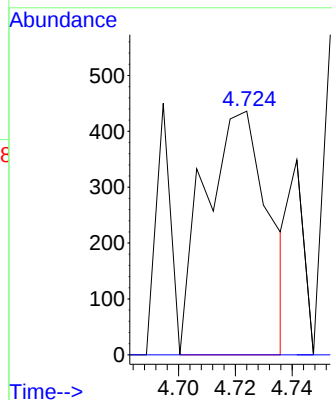
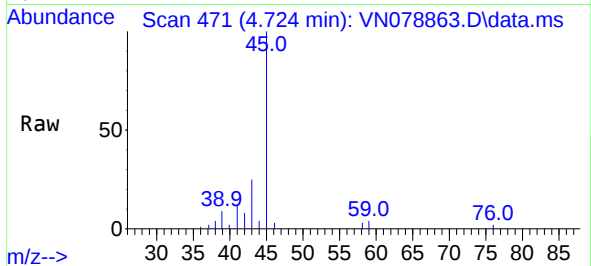




#16
Carbon Disulfide
Concen: 0.202 ug/l
RT: 4.724 min Scan# 471
Delta R.T. -0.000 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

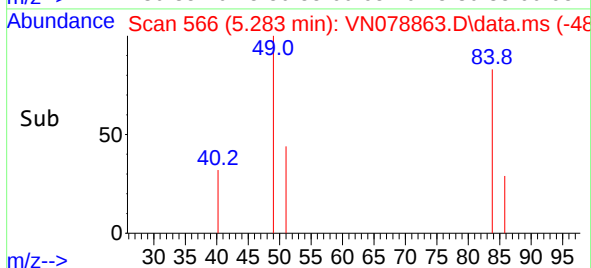
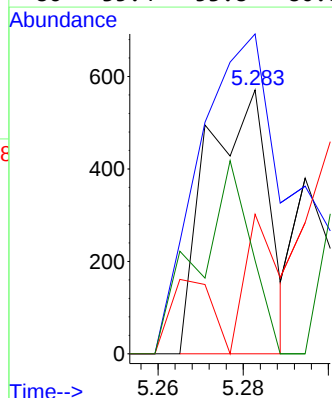
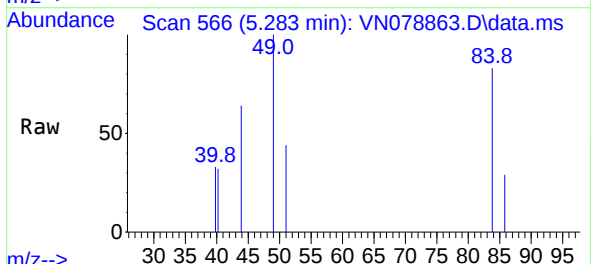
Instrument :
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ClientSampleId :
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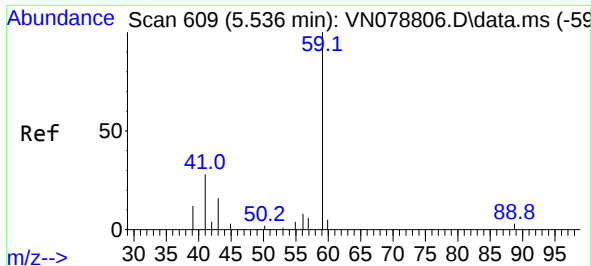
Tgt Ion: 76 Resp: 683
Ion Ratio Lower Upper
76 100
78 0.0 7.7 11.5#



#18
Methylene Chloride
Concen: 0.399 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.000 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion: 84 Resp: 582
Ion Ratio Lower Upper
84 100
49 78.8 88.1 132.1#
51 24.7 24.0 36.0
86 35.4 53.8 80.8#

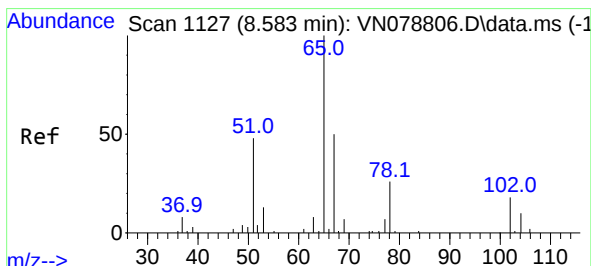
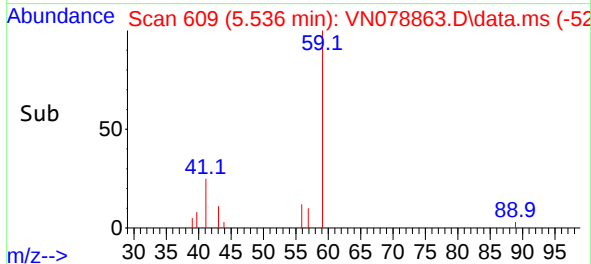
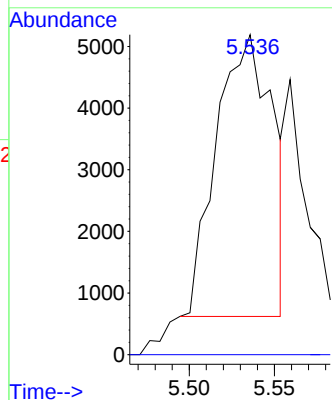
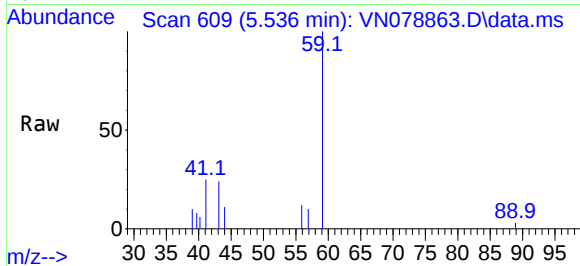




#23
tert-Butyl Alcohol
Concen: 42.057 ug/l
RT: 5.536 min Scan# 609
Delta R.T. -0.000 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

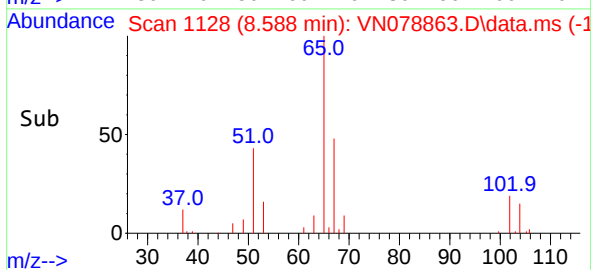
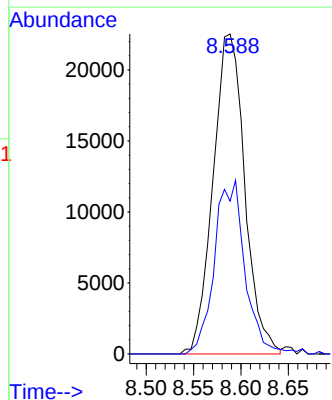
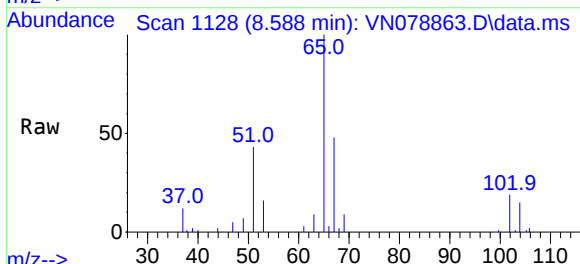
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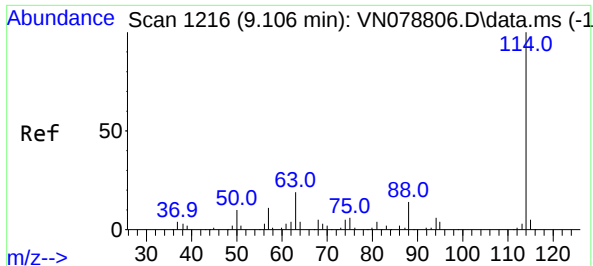
Tgt Ion: 59 Resp: 10473
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#27
1,2-Dichloroethane-d4
Concen: 31.053 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.006 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion: 65 Resp: 52528
Ion Ratio Lower Upper
65 100
67 29.8 42.9 64.3#

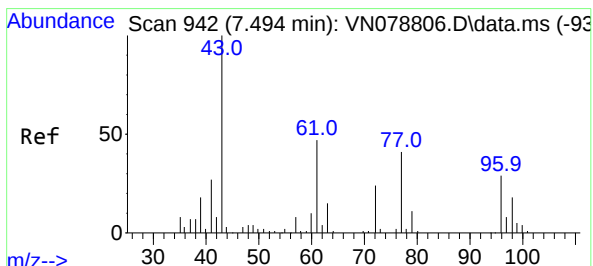
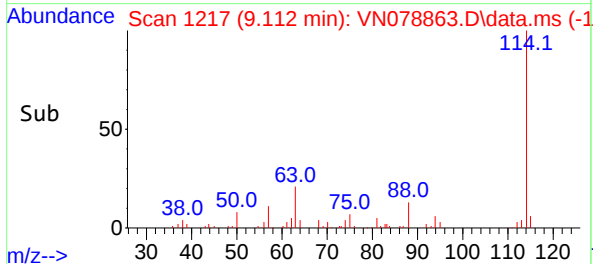
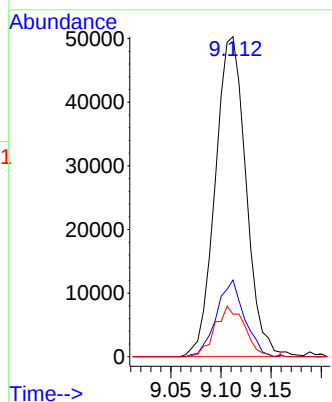
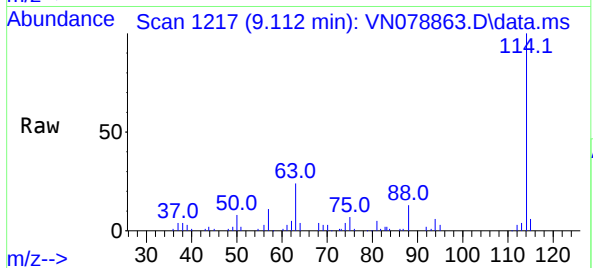




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.112 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

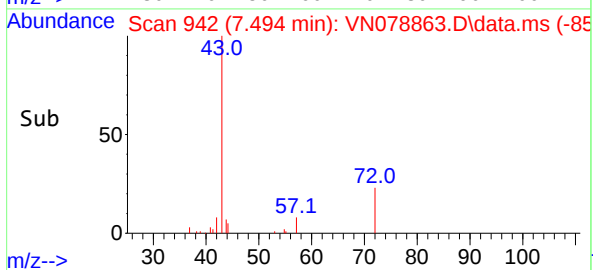
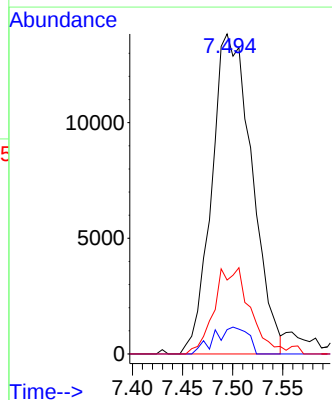
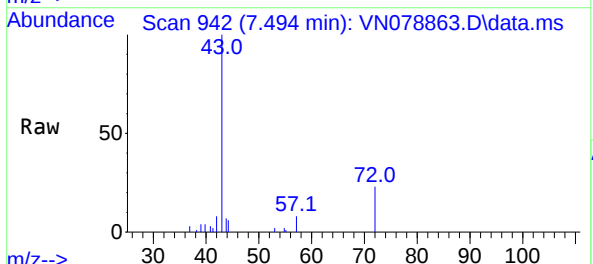
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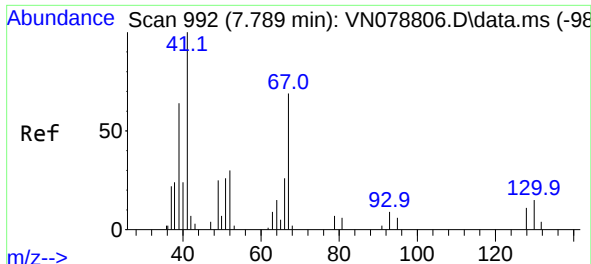
Tgt Ion:114 Resp: 106924
Ion Ratio Lower Upper
114 100
63 21.9 15.2 22.8
88 15.2 12.5 18.7



#30
2-Butanone
Concen: 45.306 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion: 43 Resp: 38575
Ion Ratio Lower Upper
43 100
57 4.6 6.8 10.2#
72 13.5 23.8 35.6#

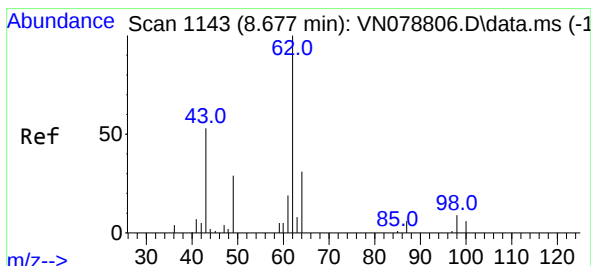
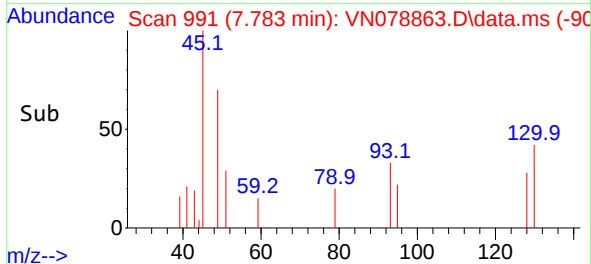
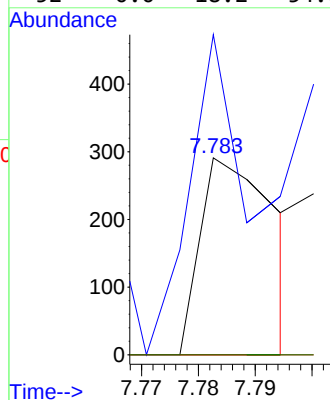
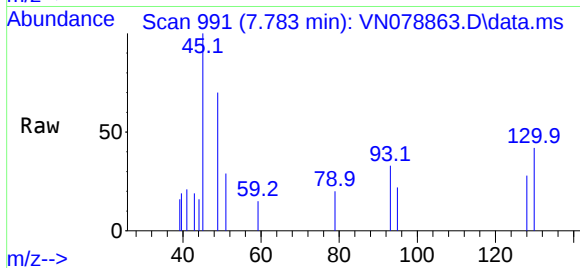




#35
Methacrylonitrile
Concen: 0.268 ug/l
RT: 7.783 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

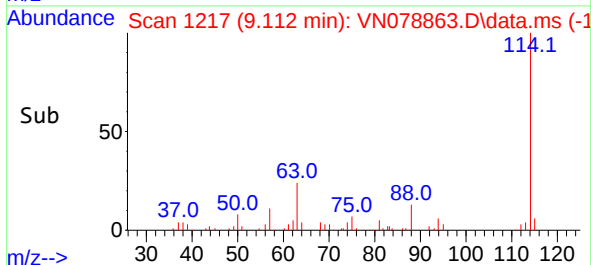
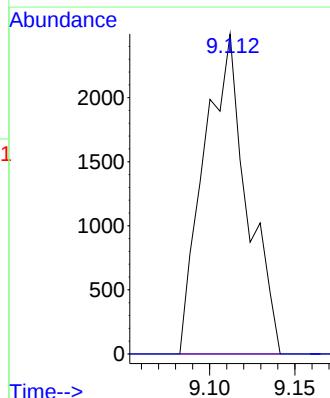
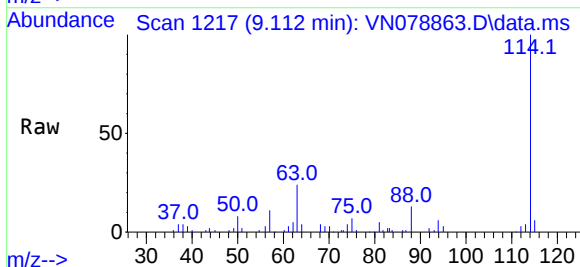
Instrument :
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ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

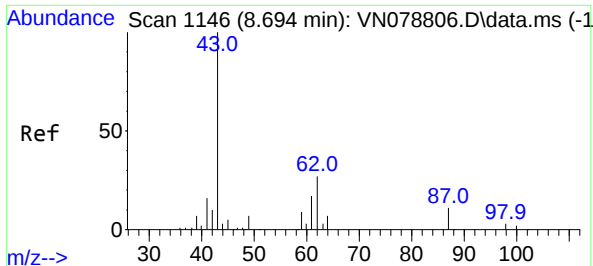
Tgt Ion:	41	Resp:	268
Ion	Ratio	Lower	Upper
41	100		
39	109.3	33.9	101.6#
67	0.0	45.9	137.6#
52	0.0	18.2	54.6#



#36
1,2-Dichloroethane
Concen: 2.365 ug/l
RT: 9.112 min Scan# 1217
Delta R.T. 0.435 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion:	62	Resp:	4370
Ion	Ratio	Lower	Upper
62	100		
98	0.0	7.4	11.0#

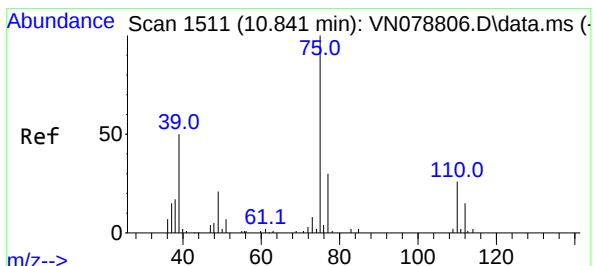
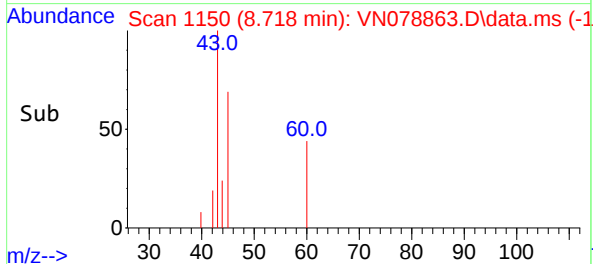
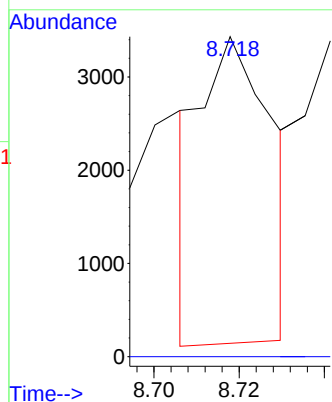
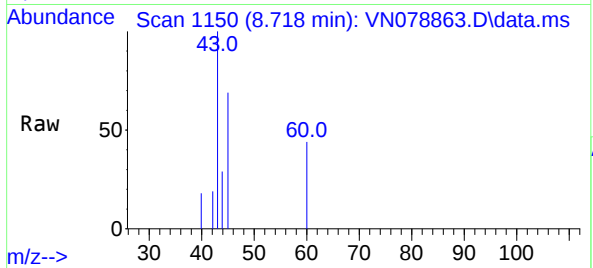




#44
Isopropyl Acetate
Concen: 1.198 ug/l
RT: 8.718 min Scan# 1146
Delta R.T. 0.023 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

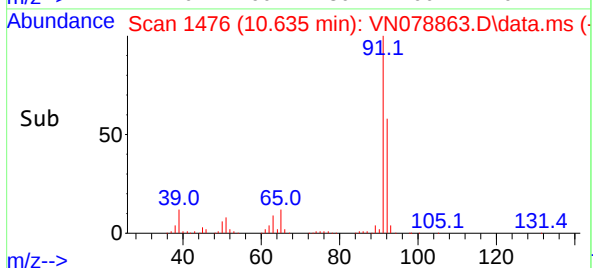
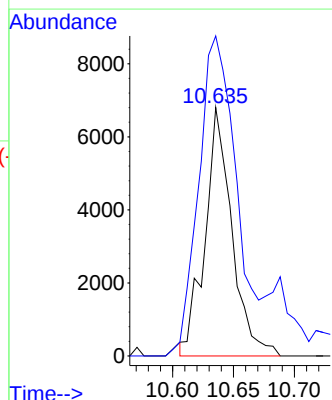
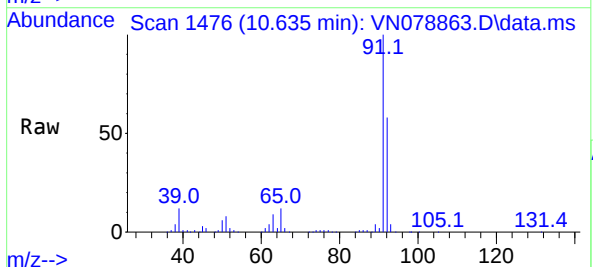
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

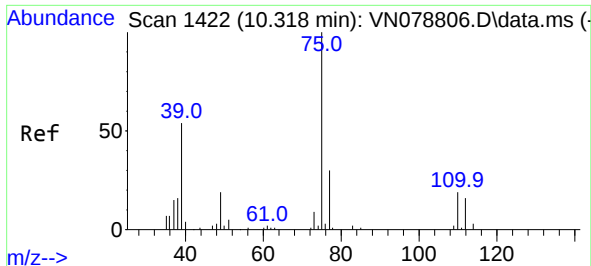
Tgt Ion: 43 Resp: 3802
Ion Ratio Lower Upper
43 100
61 0.0 23.0 34.6#



#48
t-1,3-Dichloropropene
Concen: 5.521 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.206 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

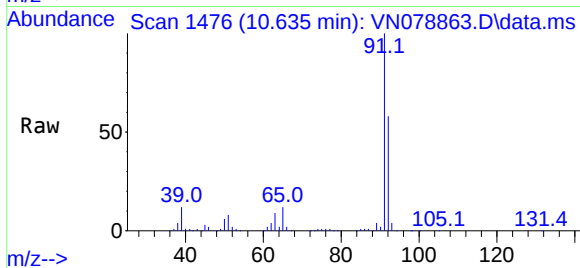
Tgt Ion: 75 Resp: 10460
Ion Ratio Lower Upper
75 100
77 123.3 26.1 39.1#



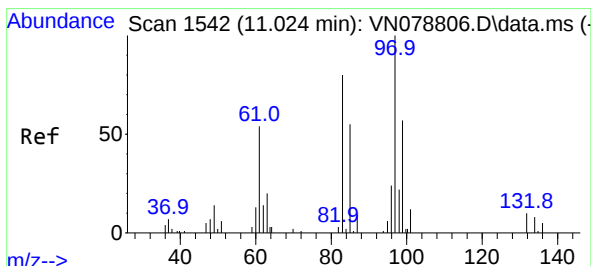
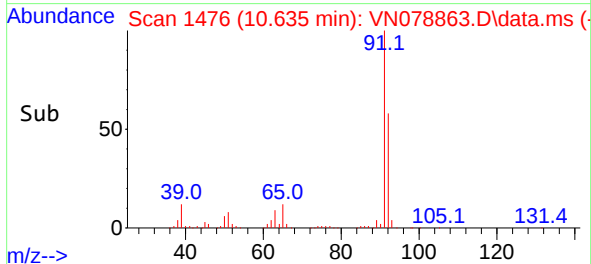
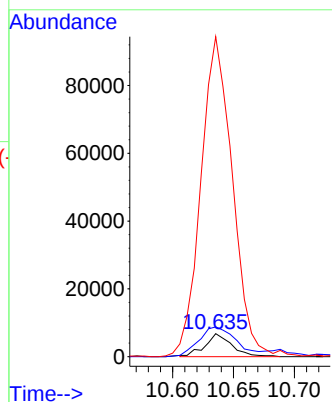


#49
cis-1,3-Dichloropropene
Concen: 4.964 ug/l
RT: 10.635 min Scan# 1414
Delta R.T. 0.318 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

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

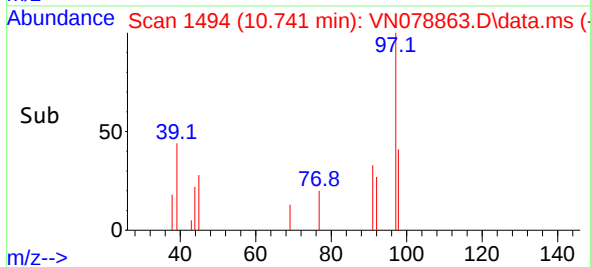
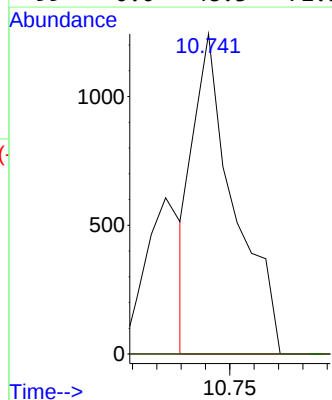
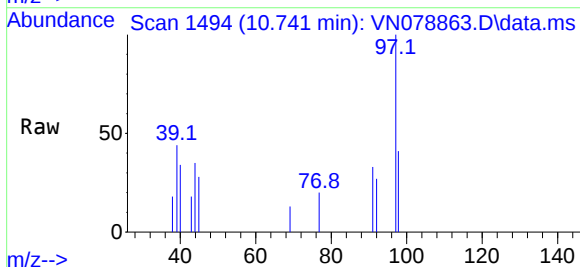


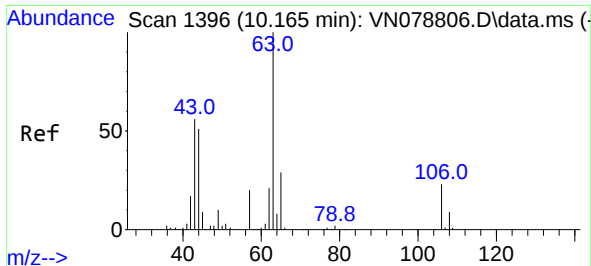
Tgt Ion: 75 Resp: 10460
Ion Ratio Lower Upper
75 100
77 123.3 24.0 36.0#
39 1354.8 35.1 52.7#



#50
1,1,2-Trichloroethane
Concen: 1.151 ug/l
RT: 10.741 min Scan# 1494
Delta R.T. -0.282 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion: 97 Resp: 1456
Ion Ratio Lower Upper
97 100
83 0.0 66.8 100.2#
85 0.0 42.5 63.7#
99 0.0 48.3 72.5#

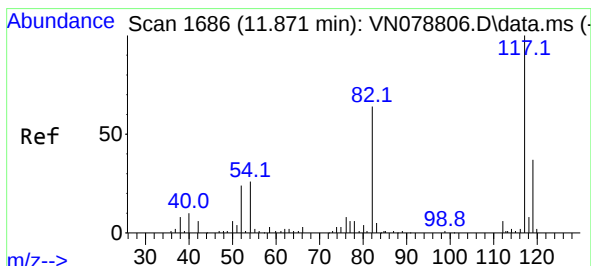
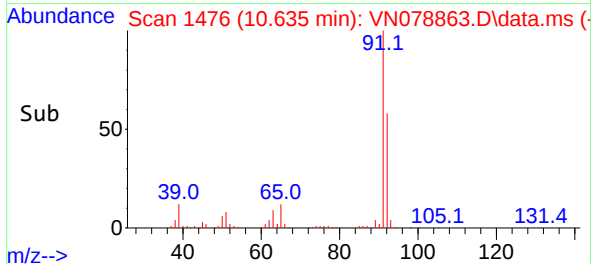
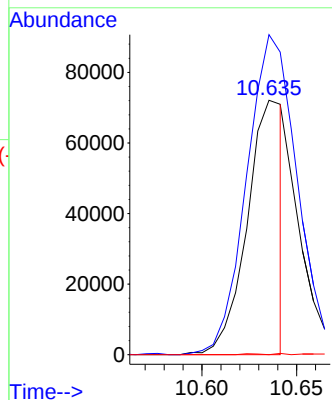
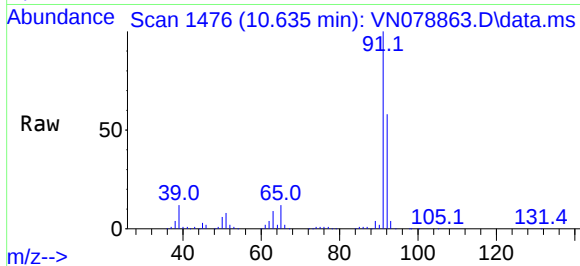




#55
2-Chloroethyl vinyl ether
Concen: 146.204 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.470 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

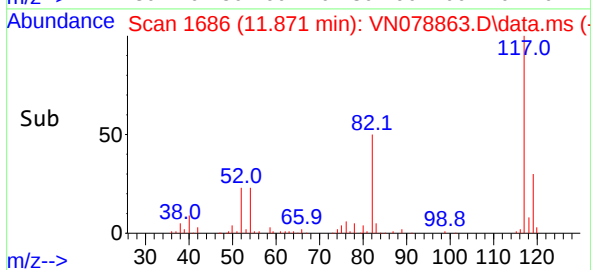
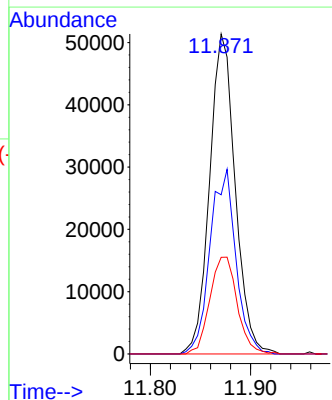
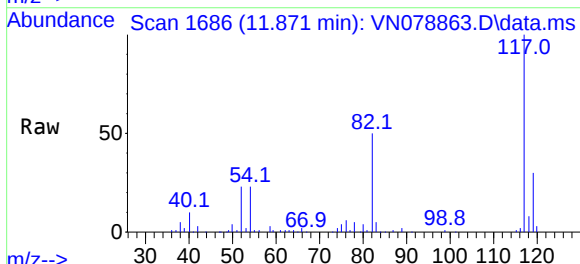
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

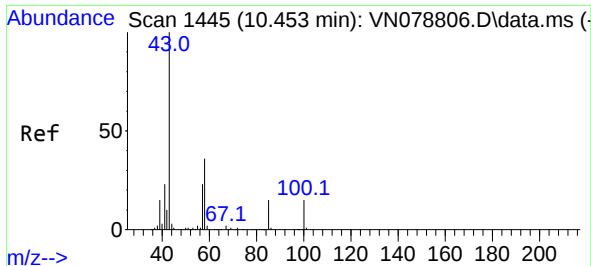
Tgt Ion: 63 Resp: 95630
Ion Ratio Lower Upper
63 100
65 126.6 26.3 39.5#
106 0.2 23.8 35.6#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. -0.000 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion: 117 Resp: 91374
Ion Ratio Lower Upper
117 100
82 58.3 43.9 65.9
119 32.3 26.2 39.4

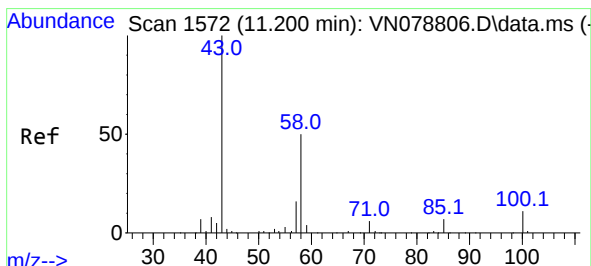
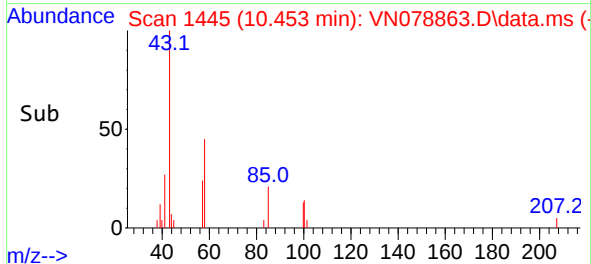
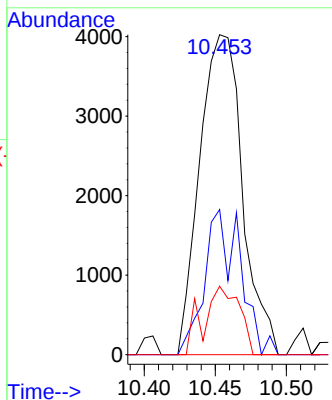
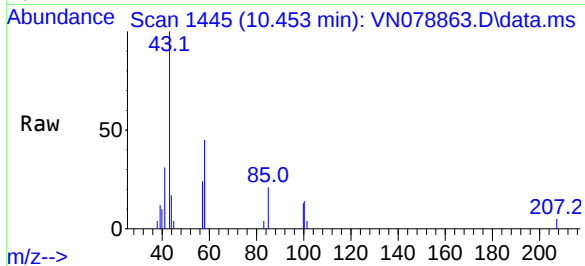




#58
4-Methyl-2-Pentanone
Concen: 4.815 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. -0.000 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

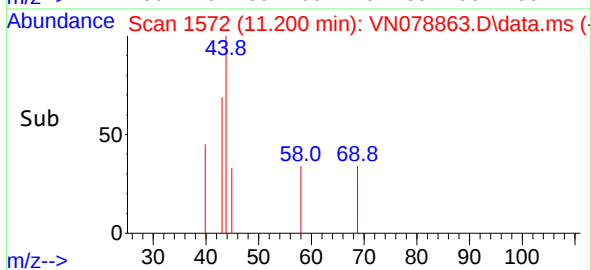
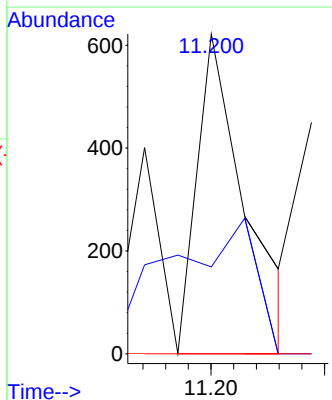
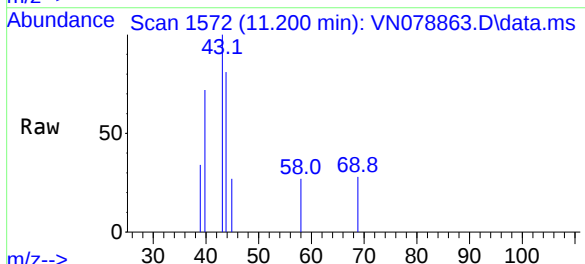
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

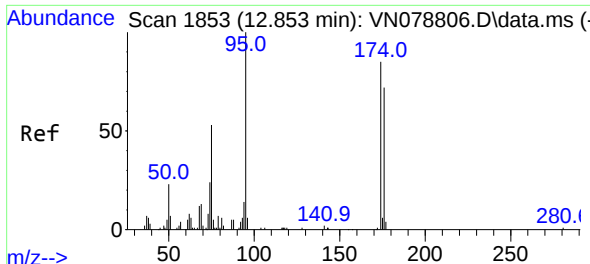
Tgt Ion: 43 Resp: 8456
Ion Ratio Lower Upper
43 100
58 24.0 32.6 48.8#
85 14.3 16.2 24.2#



#59
2-Hexanone
Concen: 0.305 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. -0.000 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion: 43 Resp: 372
Ion Ratio Lower Upper
43 100
58 25.0 45.9 68.9#
57 0.0 15.8 23.6#

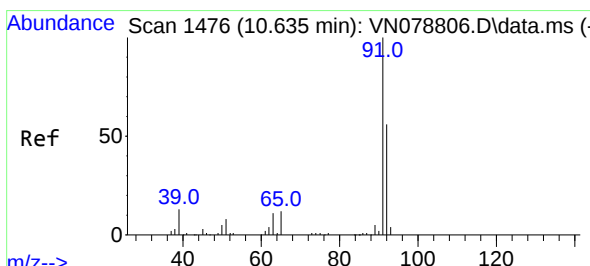
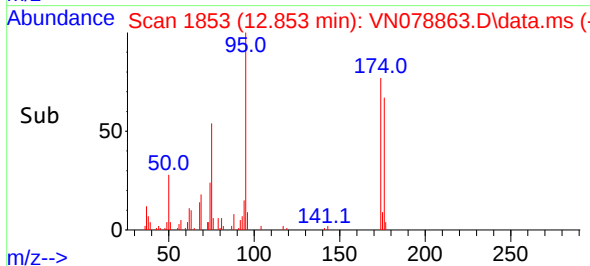
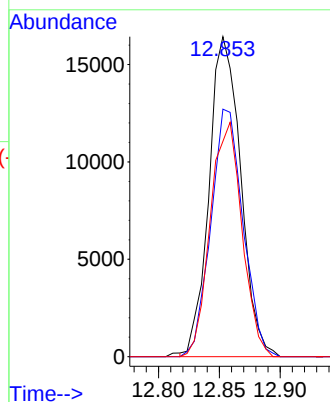
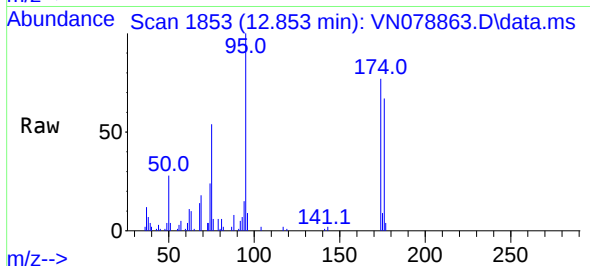




#60
4-Bromofluorobenzene
Concen: 23.153 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

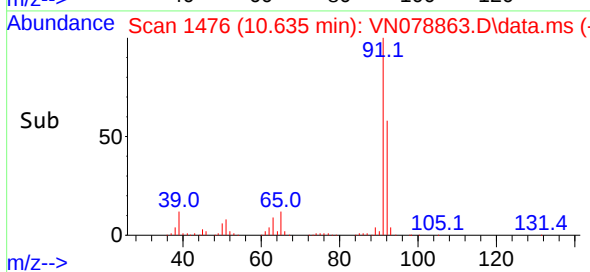
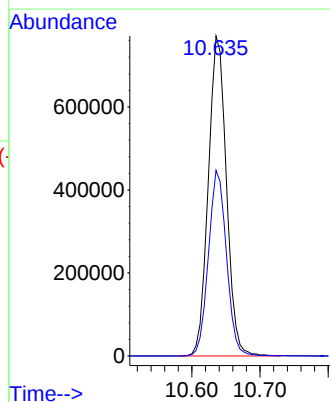
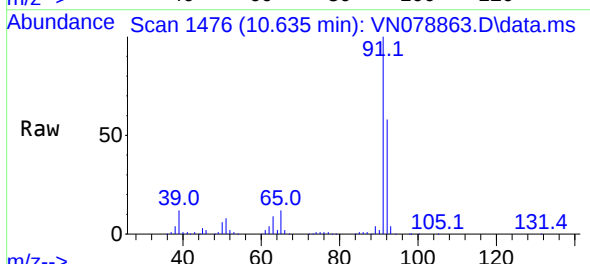
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

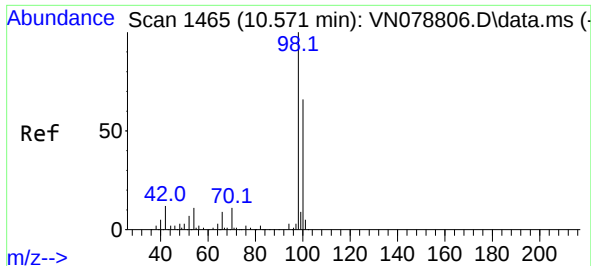
Tgt Ion: 95 Resp: 29696
Ion Ratio Lower Upper
95 100
174 78.6 61.7 92.5
176 73.4 58.1 87.1



#62
Toluene
Concen: 265.170 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. -0.000 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion: 91 Resp: 1426487
Ion Ratio Lower Upper
91 100
92 57.7 45.2 67.8

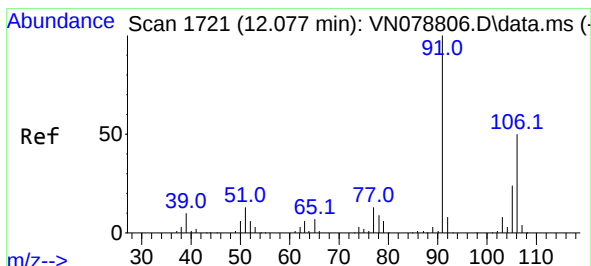
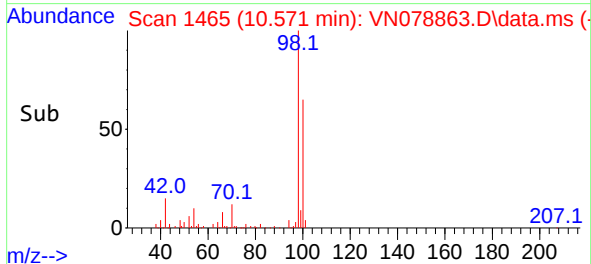
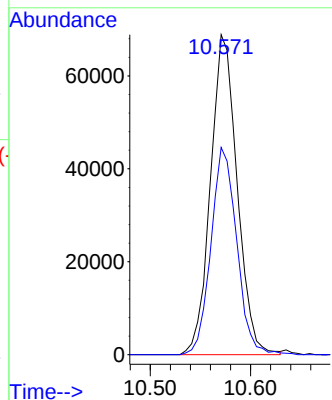
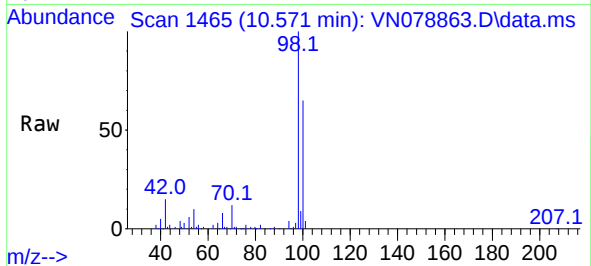




#63
Toluene-d8
Concen: 28.432 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

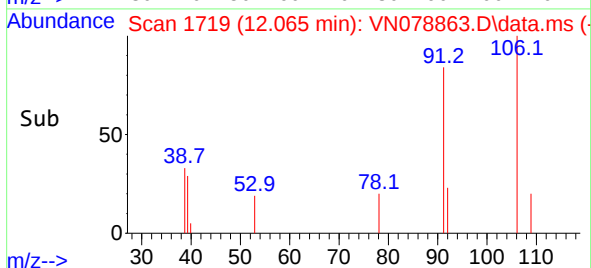
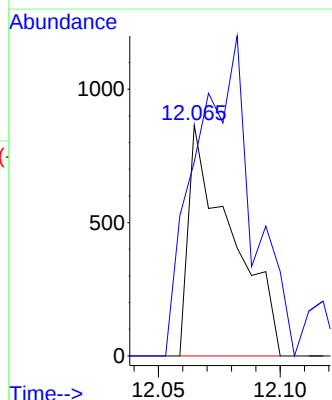
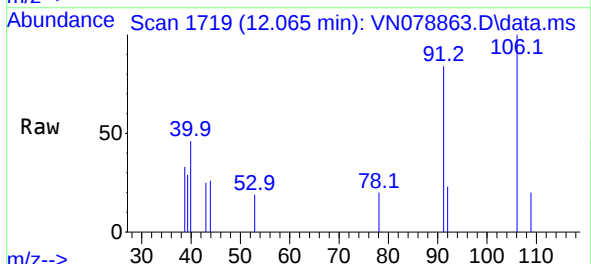
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

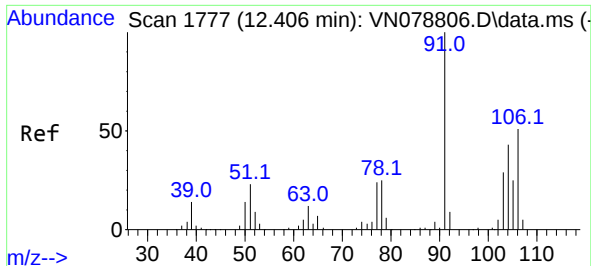
Tgt Ion: 98 Resp: 127306
Ion Ratio Lower Upper
98 100
100 62.6 49.7 74.5



#67
m/p-Xylenes
Concen: 0.517 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.012 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion:106 Resp: 1060
Ion Ratio Lower Upper
106 100
91 154.7 162.5 243.7#

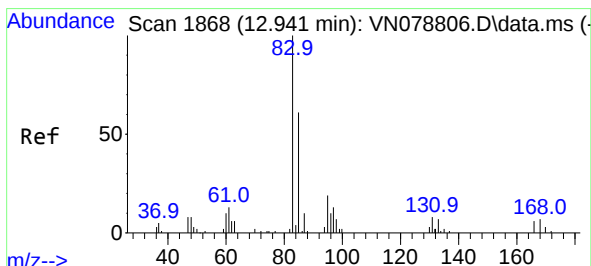
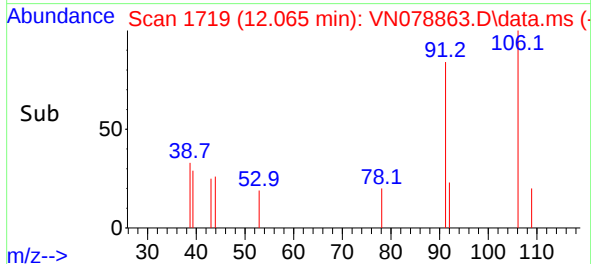
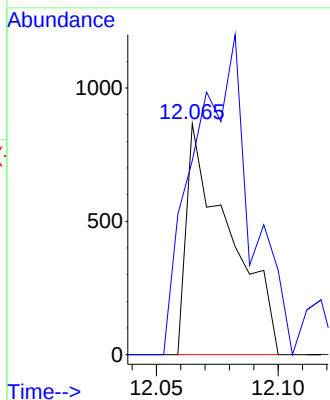
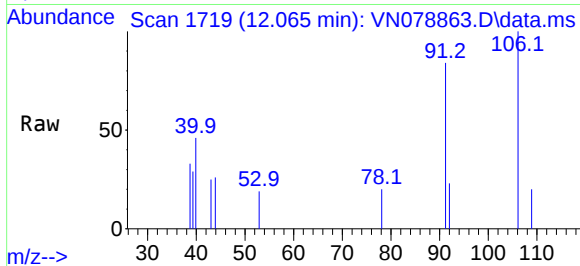




#68
o-Xylene
Concen: 0.520 ug/l
RT: 12.065 min Scan# 11
Delta R.T. -0.341 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

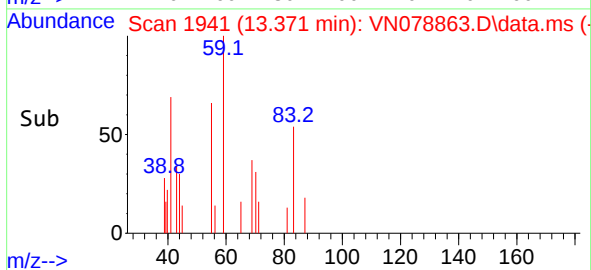
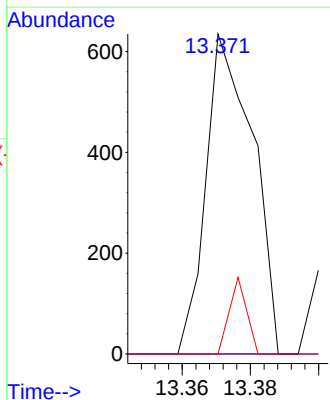
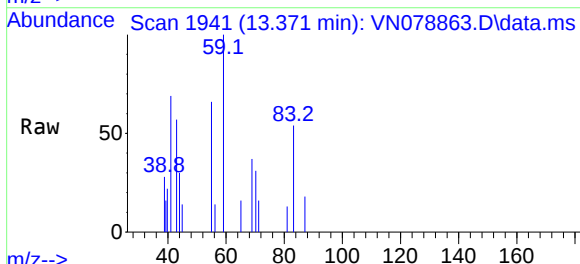
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

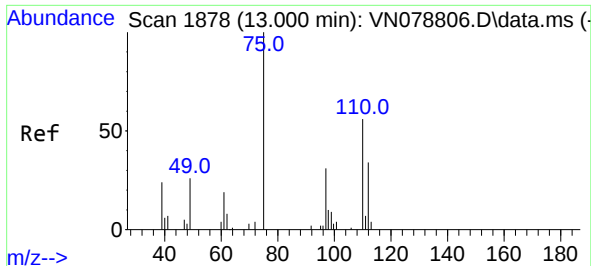
Tgt Ion:106 Resp: 1060
Ion Ratio Lower Upper
106 100
91 154.7 106.1 318.3



#71
1,1,2,2-Tetrachloroethane
Concen: 0.354 ug/l
RT: 13.371 min Scan# 1941
Delta R.T. 0.429 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion: 83 Resp: 605
Ion Ratio Lower Upper
83 100
131 0.0 4.8 14.4#
85 0.0 32.6 98.0#

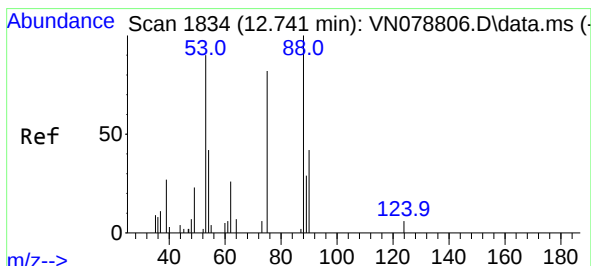
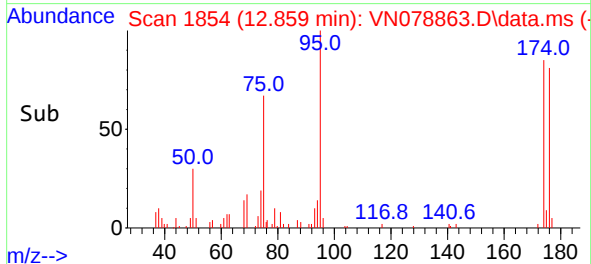
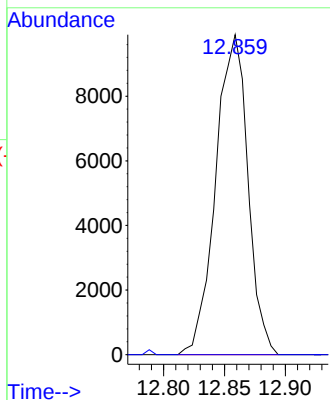
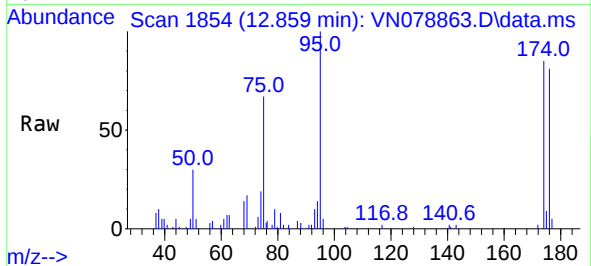




#72
1,2,3-Trichloropropane
Concen: 12.236 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

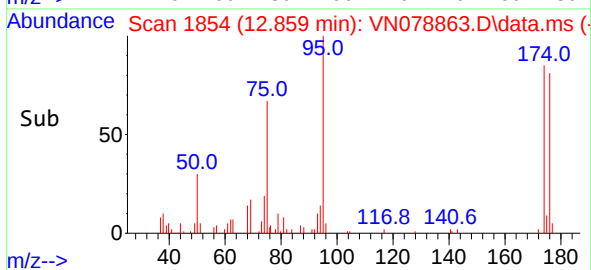
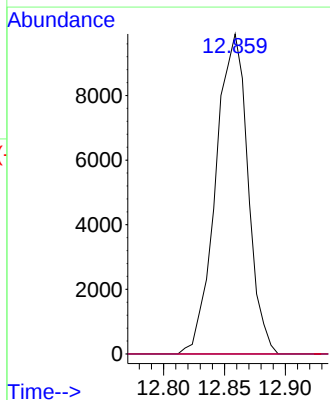
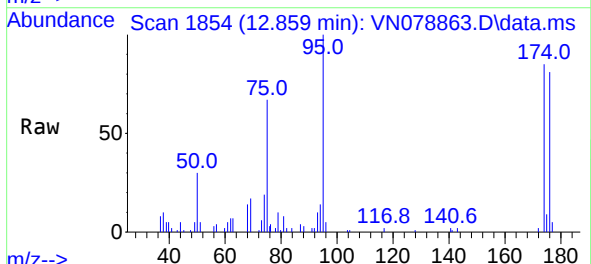
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

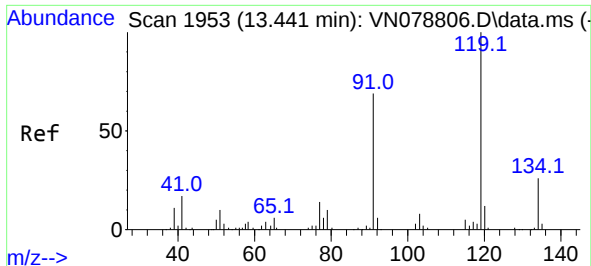
Tgt Ion: 75 Resp: 18229
Ion Ratio Lower Upper
75 100
77 0.0 0.0 387.4



#77
t-1,4-Dichloro-2-butene
Concen: 38.982 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. 0.118 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion: 75 Resp: 18229
Ion Ratio Lower Upper
75 100
53 0.0 41.6 124.9#
89 0.0 25.1 75.4#

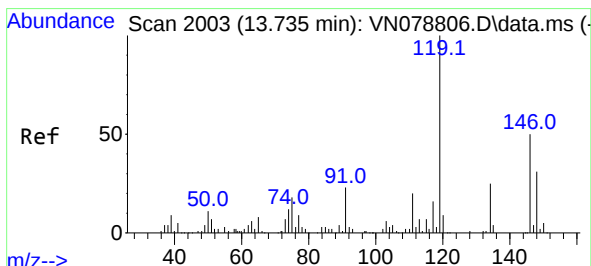
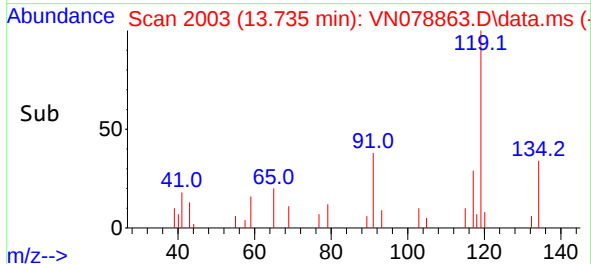
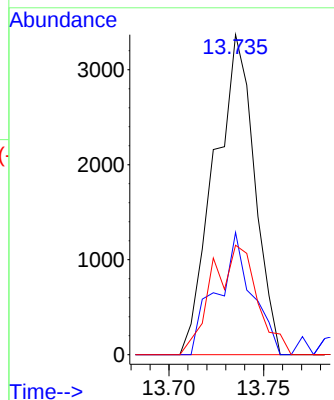
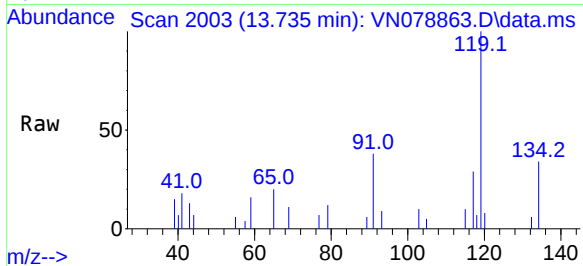




#79
tert-butylbenzene
Concen: 1.512 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.294 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

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

Tgt Ion:	119	Resp:	4964
Ion	Ratio	Lower	Upper
119	100		
91	20.4	0.0	126.6
134	38.5	0.0	44.0



#82
p-Isopropyltoluene
Concen: 1.442 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. -0.000 min
Lab File: VN078863.D
Acq: 11 Aug 2023 15:15

Tgt Ion:	119	Resp:	4964
Ion	Ratio	Lower	Upper
119	100		
134	38.5	0.0	52.4
91	20.4	0.0	48.2

