

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102524\
 Data File : VN084518.D
 Acq On : 25 Oct 2024 16:03
 Operator : JC\MD
 Sample : P4554-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 1 Sample Multiplier: 1

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

Quant Time: Oct 26 05:31:22 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:22:28 2024
 Response via : Initial Calibration

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

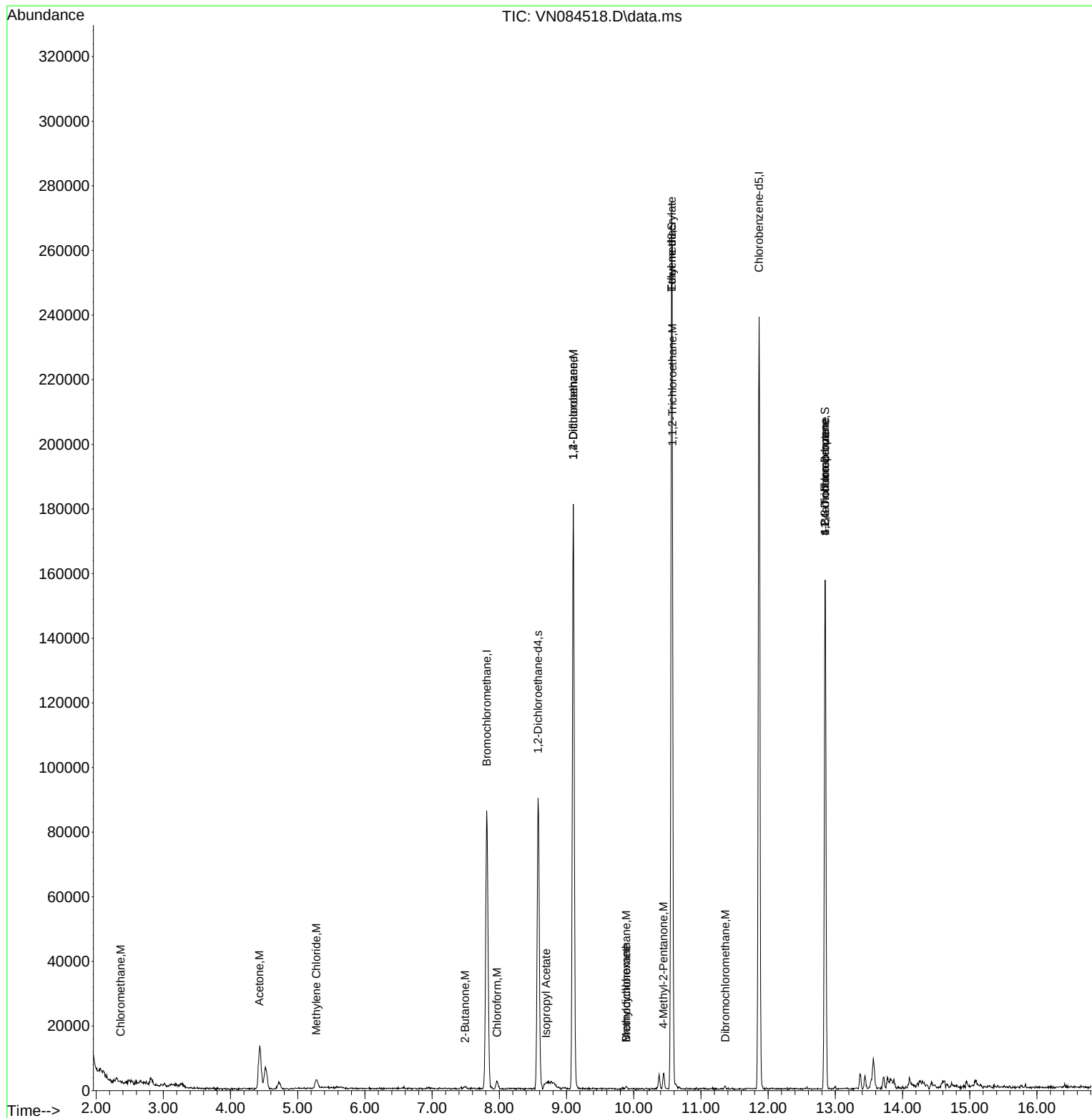
Internal Standards						
1) Bromochloromethane	7.812	128	30444	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	149069	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	138801	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	74130	30.245	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 100.800%			
60) 4-Bromofluorobenzene	12.847	95	57249	24.991	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 83.300%			
63) Toluene-d8	10.565	98	185282	28.814	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 96.033%			
Target Compounds					Qvalue	
3) Chloromethane	2.365	50	443	0.209	ug/l #	42
15) Acetone	4.430	58	5307	17.425	ug/l	95
18) Methylene Chloride	5.277	84	1410	0.660	ug/l #	84
25) Chloroform	7.965	83	2652	0.691	ug/l	87
30) 2-Butanone	7.489	43	670	0.514	ug/l #	55
36) 1,2-Dichloroethane	9.100	62	5598	2.192	ug/l #	75
38) Methylcyclohexane	9.888	83	729	0.271	ug/l #	17
41) Bromodichloromethane	9.888	83	729	0.263	ug/l #	95
44) Isopropyl Acetate	8.694	43	870	0.207	ug/l #	48
50) 1,1,2-Trichloroethane	10.577	97	6116	3.485	ug/l #	1
51) Ethyl methacrylate	10.565	69	694	0.239	ug/l #	72
53) Dibromochloromethane	11.365	129	740	0.357	ug/l	62
58) 4-Methyl-2-Pentanone	10.441	43	3607	1.395	ug/l	94
72) 1,2,3-Trichloropropane	12.847	75	30525	13.981	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	30525	32.718	ug/l #	12

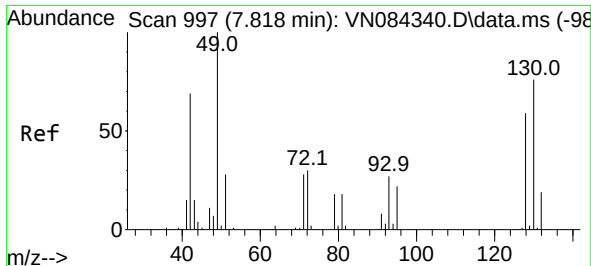
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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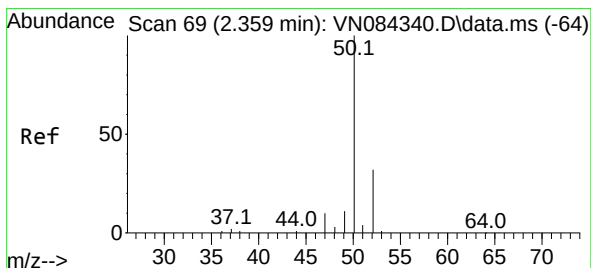
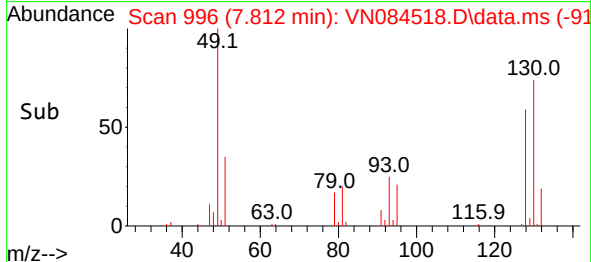
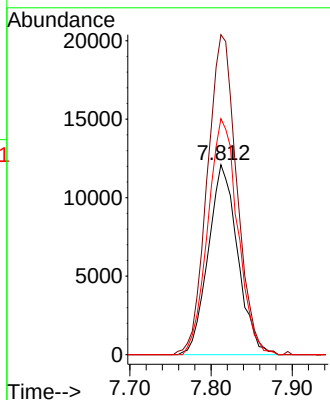
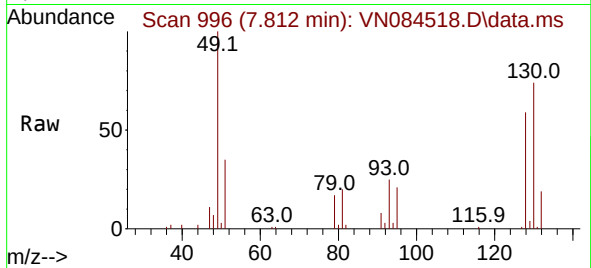




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

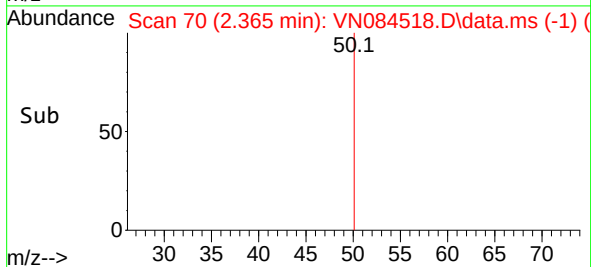
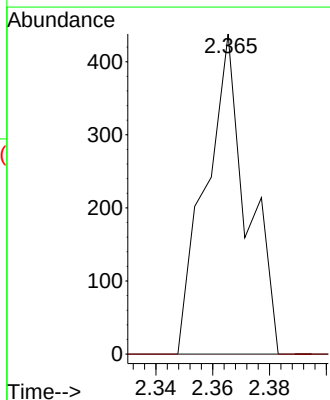
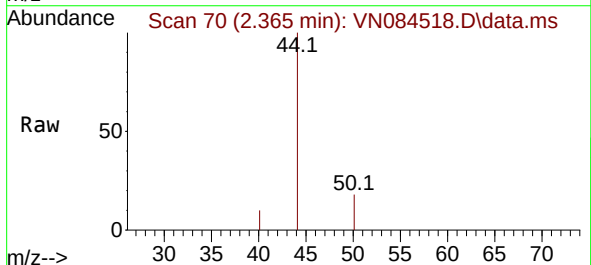
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

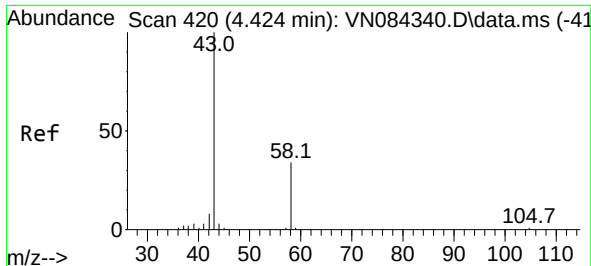
Tgt Ion:128 Resp: 30444
Ion Ratio Lower Upper
128 100
49 169.1 0.0 430.0
130 126.2 0.0 329.8



#3
Chloromethane
Concen: 0.209 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

Tgt Ion: 50 Resp: 443
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.6#





#15

Acetone

Concen: 17.425 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.006 min

Lab File: VN084518.D

Acq: 25 Oct 2024 16:03

Instrument :

MSVOA_N

ClientSampleId :

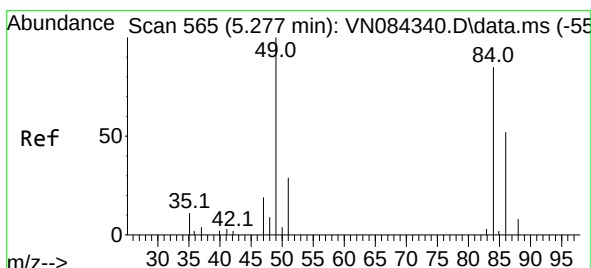
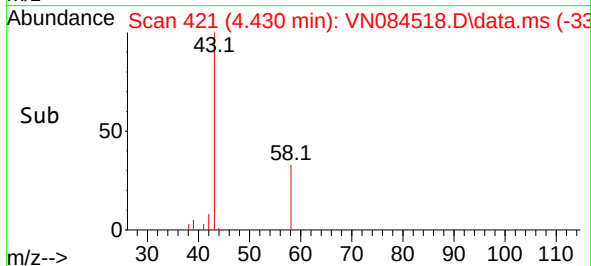
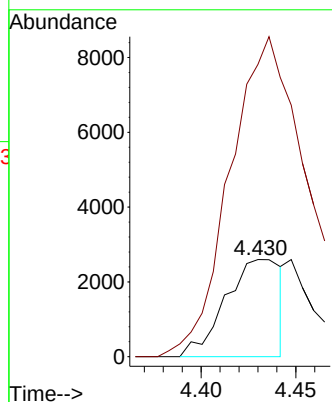
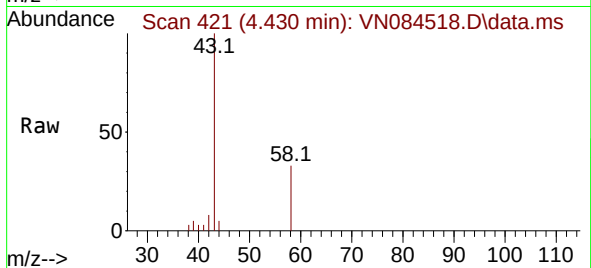
001-WILLETS-PT-BLVD(SEP)

Tgt Ion: 58 Resp: 5307

Ion Ratio Lower Upper

58 100

43 287.7 237.5 356.3



#18

Methylene Chloride

Concen: 0.660 ug/l

RT: 5.277 min Scan# 565

Delta R.T. 0.000 min

Lab File: VN084518.D

Acq: 25 Oct 2024 16:03

Tgt Ion: 84 Resp: 1410

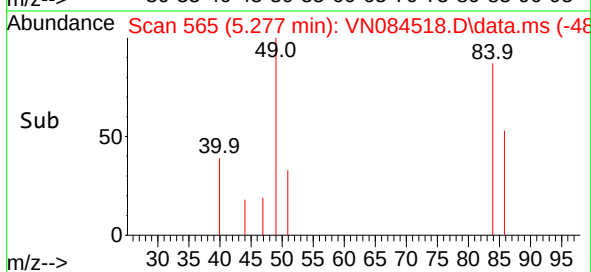
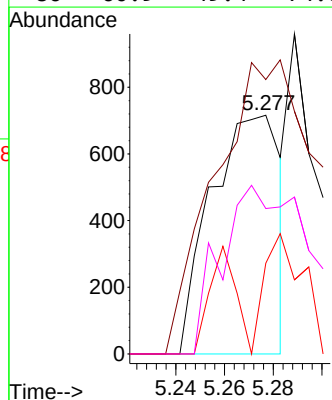
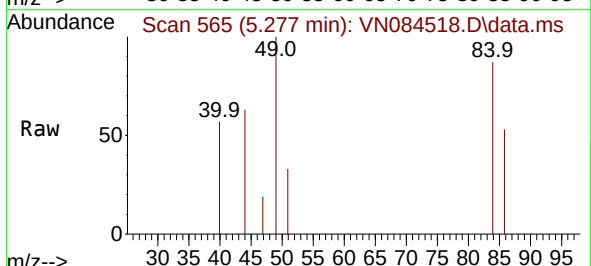
Ion Ratio Lower Upper

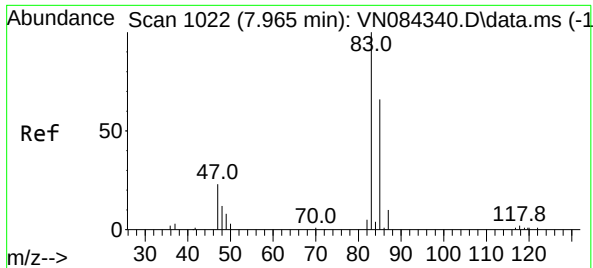
84 100

49 88.5 94.6 142.0#

51 38.0 27.3 40.9

86 60.9 49.4 74.0

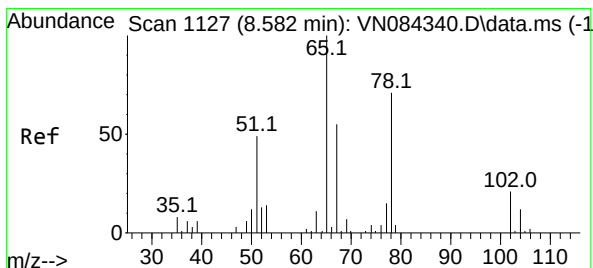
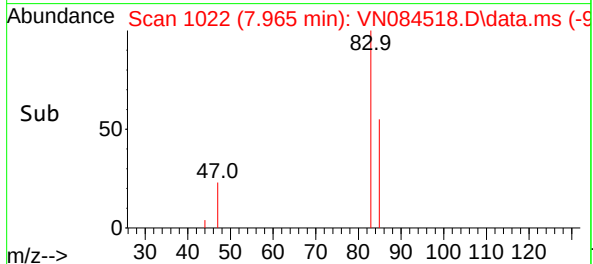
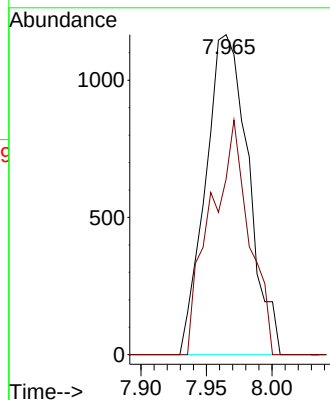
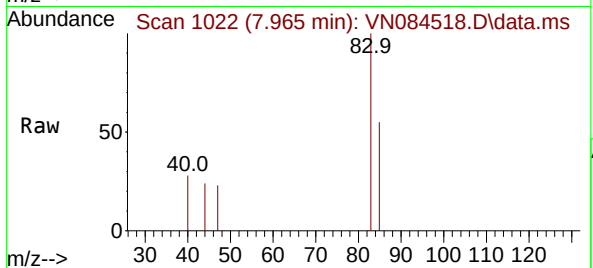




#25
Chloroform
Concen: 0.691 ug/l
RT: 7.965 min Scan# 1022
Delta R.T. 0.000 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

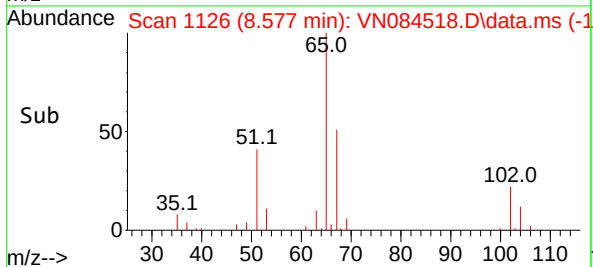
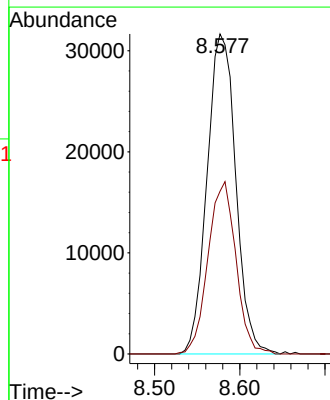
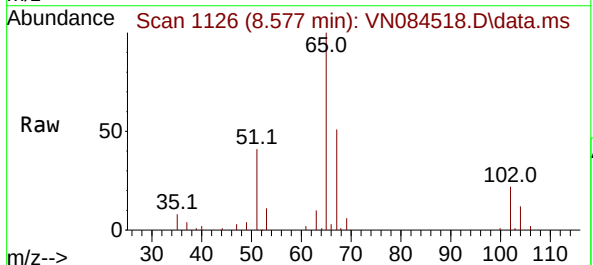
Instrument :
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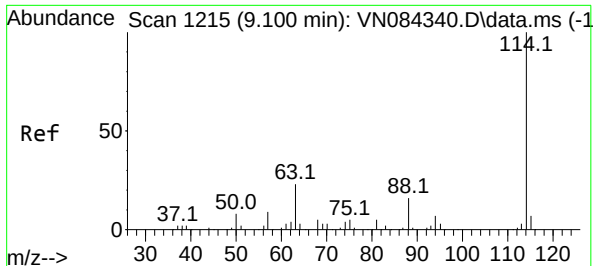
Tgt Ion: 83 Resp: 2652
Ion Ratio Lower Upper
83 100
85 54.9 52.4 78.6



#27
1,2-Dichloroethane-d4
Concen: 30.245 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

Tgt Ion: 65 Resp: 74130
Ion Ratio Lower Upper
65 100
67 52.3 41.5 62.3

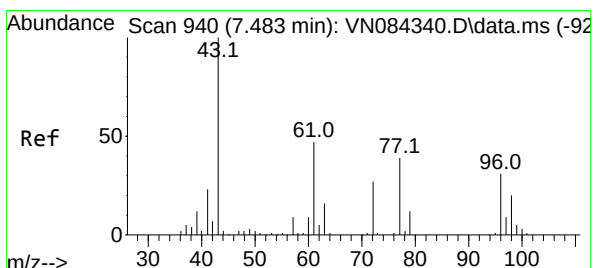
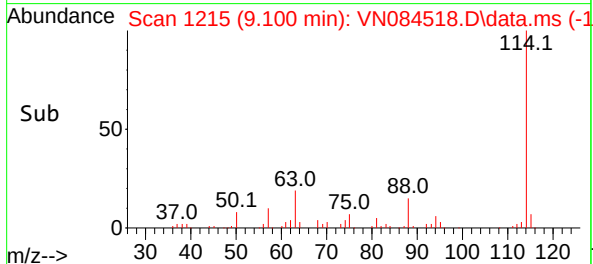
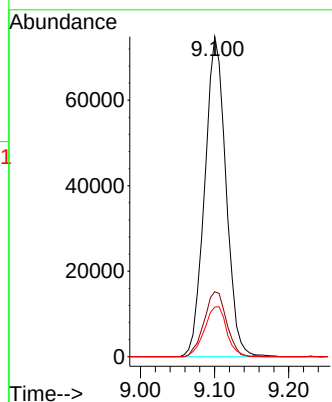
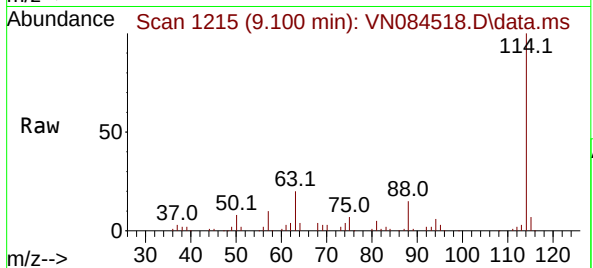




#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 114
Delta R.T. 0.000 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

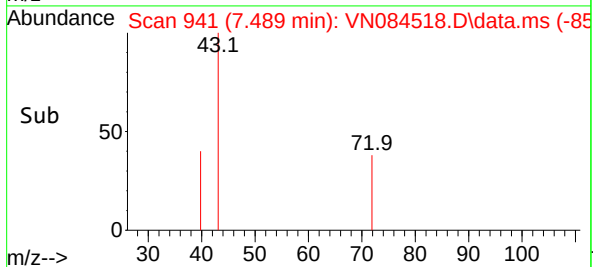
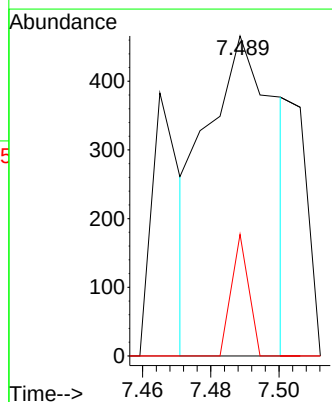
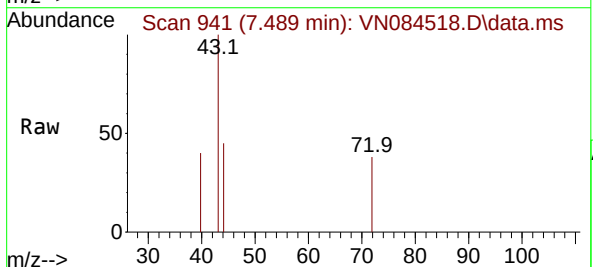
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

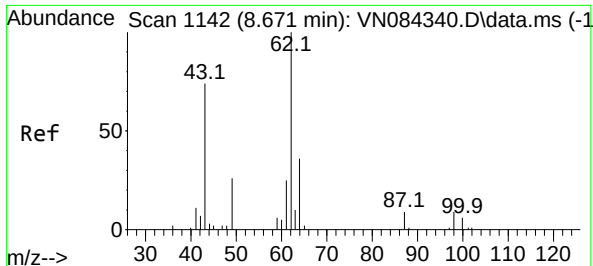
Tgt Ion:114 Resp: 149069
Ion Ratio Lower Upper
114 100
63 21.4 17.4 26.0
88 16.3 13.2 19.8



#30
2-Butanone
Concen: 0.514 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

Tgt Ion: 43 Resp: 670
Ion Ratio Lower Upper
43 100
57 0.0 6.6 9.8#
72 0.0 21.3 31.9#

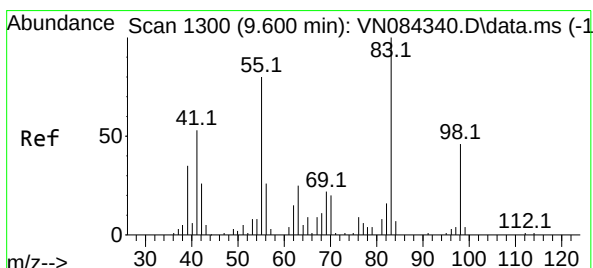
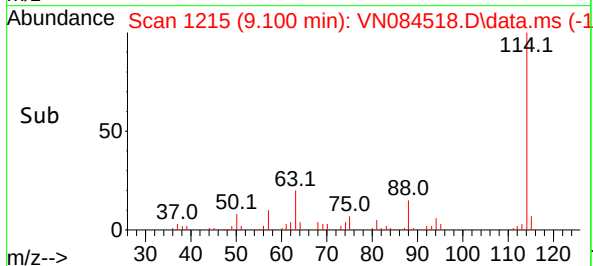
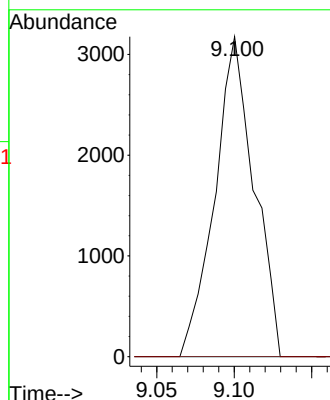
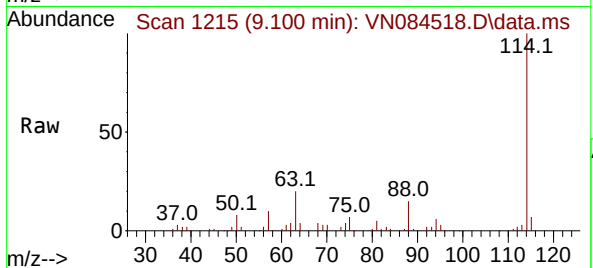




#36
1,2-Dichloroethane
Concen: 2.192 ug/l
RT: 9.100 min Scan# 1142
Delta R.T. 0.430 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

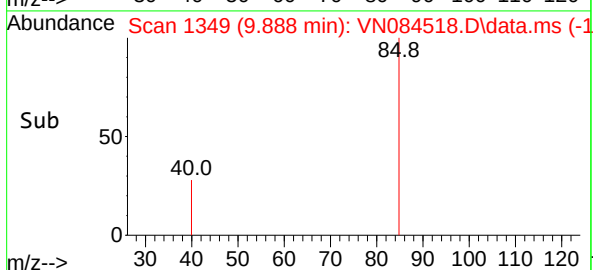
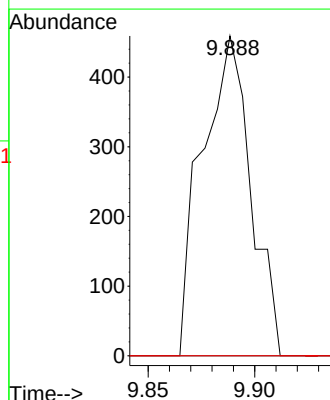
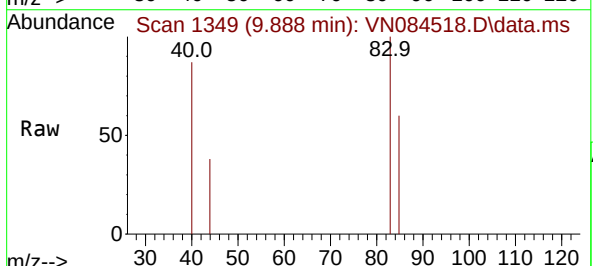
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001-WILLETS-PT-BLVD(SEP)

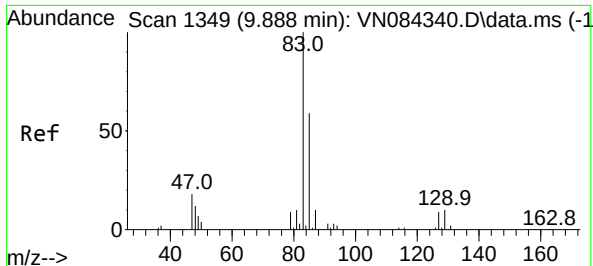
Tgt Ion: 62 Resp: 5598
Ion Ratio Lower Upper
62 100
98 0.0 7.3 10.9#



#38
Methylcyclohexane
Concen: 0.271 ug/l
RT: 9.888 min Scan# 1349
Delta R.T. 0.288 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

Tgt Ion: 83 Resp: 729
Ion Ratio Lower Upper
83 100
55 0.0 39.3 117.8#
98 0.0 24.0 72.0#

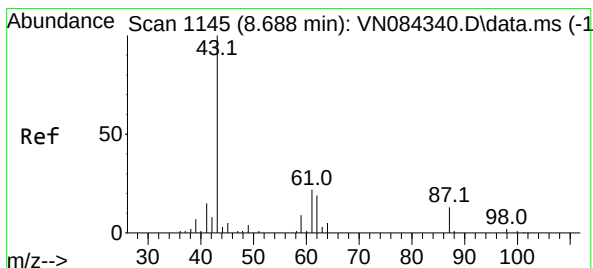
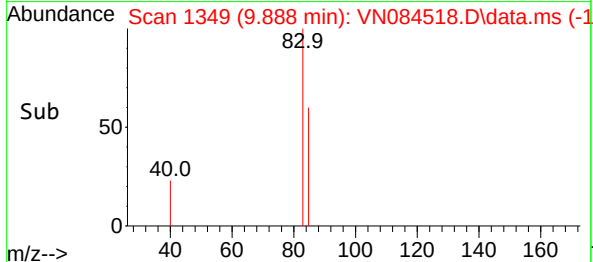
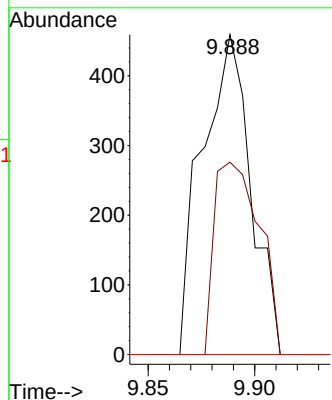
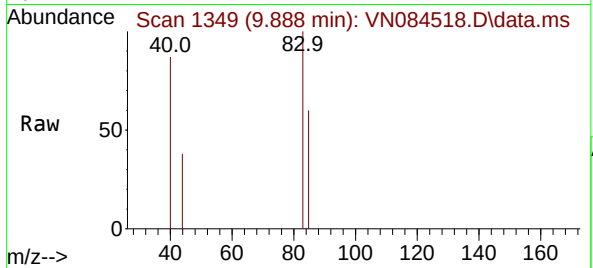




#41
Bromodichloromethane
Concen: 0.263 ug/l
RT: 9.888 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

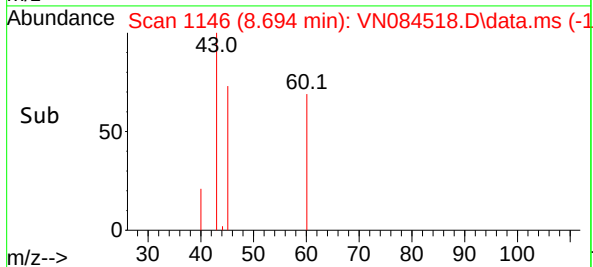
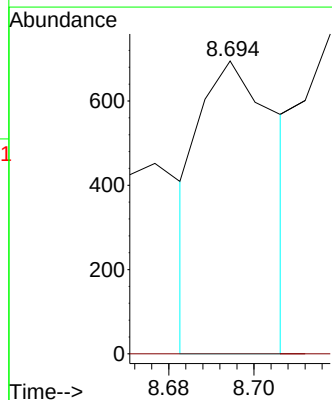
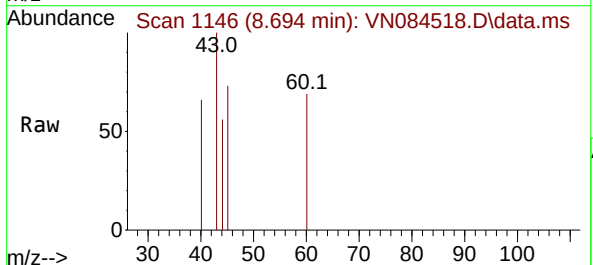
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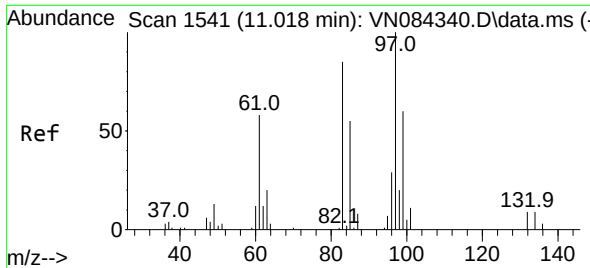
Tgt Ion: 83 Resp: 729
Ion Ratio Lower Upper
83 100
85 60.1 47.1 70.7
127 0.0 7.1 10.7#



#44
Isopropyl Acetate
Concen: 0.207 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

Tgt Ion: 43 Resp: 870
Ion Ratio Lower Upper
43 100
61 0.0 21.4 32.2#

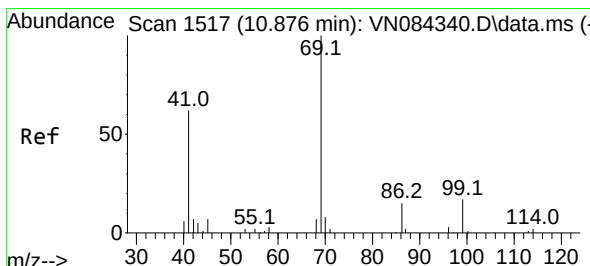
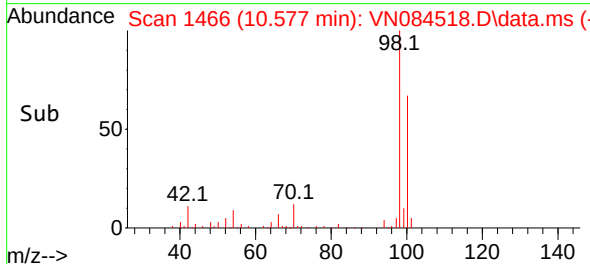
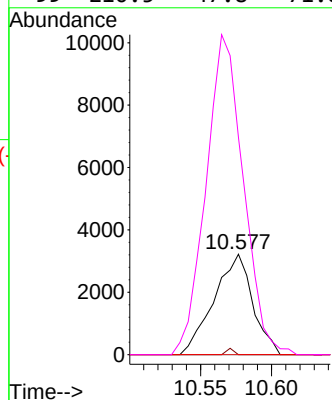
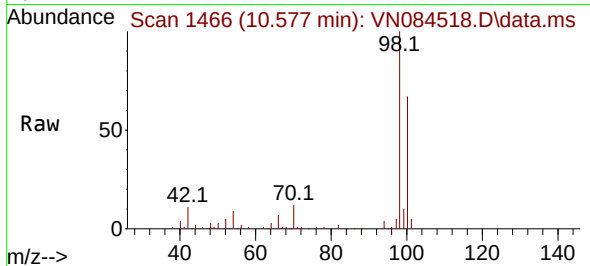




#50
 1,1,2-Trichloroethane
 Concen: 3.485 ug/l
 RT: 10.577 min Scan# 1466
 Delta R.T. -0.441 min
 Lab File: VN084518.D
 Acq: 25 Oct 2024 16:03

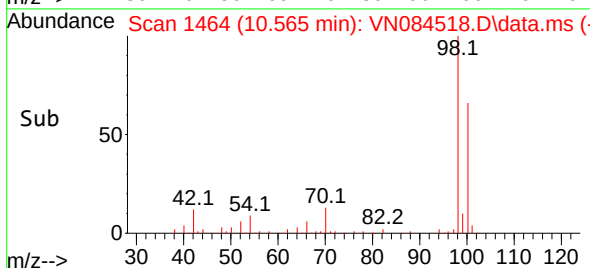
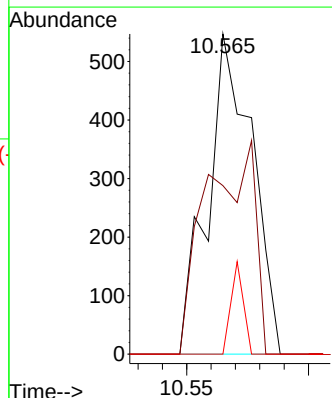
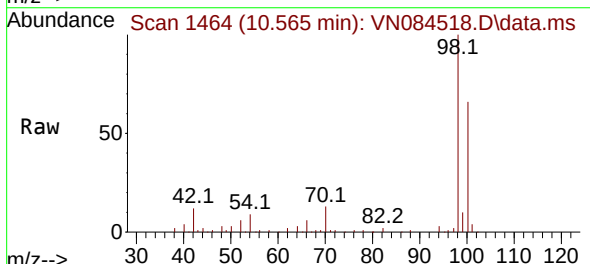
Instrument :
 MSVOA_N
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 001-WILLETS-PT-BLVD(SEP)

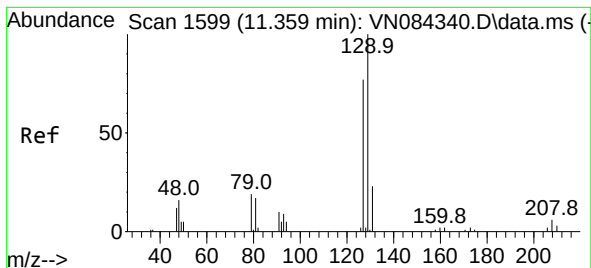
Tgt Ion:	97	Resp:	6116
Ion	Ratio	Lower	Upper
97	100		
83	0.0	67.8	101.8#
85	0.0	44.2	66.2#
99	210.5	47.8	71.8#



#51
 Ethyl methacrylate
 Concen: 0.239 ug/l
 RT: 10.565 min Scan# 1464
 Delta R.T. -0.312 min
 Lab File: VN084518.D
 Acq: 25 Oct 2024 16:03

Tgt Ion:	69	Resp:	694
Ion	Ratio	Lower	Upper
69	100		
41	52.7	30.9	92.7
39	0.0	16.6	49.7#





#53

Dibromochloromethane

Concen: 0.357 ug/l

RT: 11.365 min Scan# 1599

Delta R.T. 0.006 min

Lab File: VN084518.D

Acq: 25 Oct 2024 16:03

Instrument :

MSVOA_N

ClientSampleId :

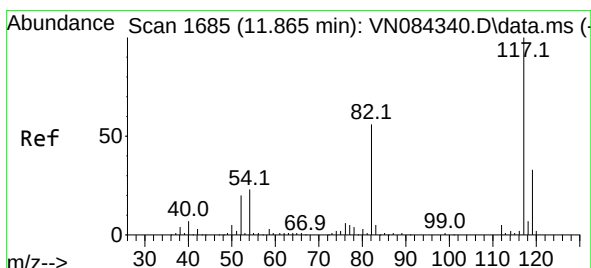
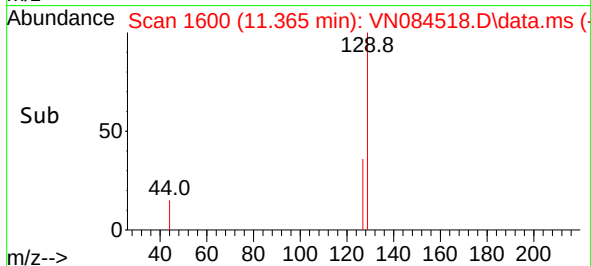
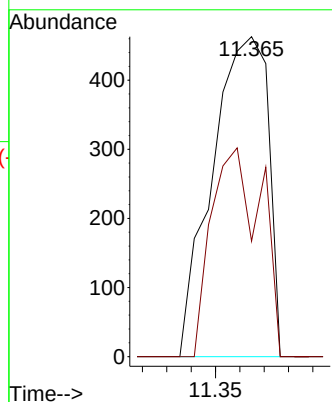
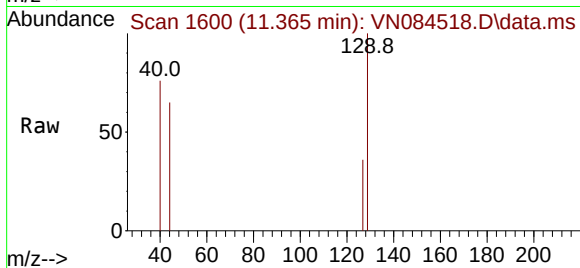
001-WILLETS-PT-BLVD(SEP)

Tgt Ion:129 Resp: 740

Ion Ratio Lower Upper

129 100

127 44.6 38.5 115.5



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. 0.000 min

Lab File: VN084518.D

Acq: 25 Oct 2024 16:03

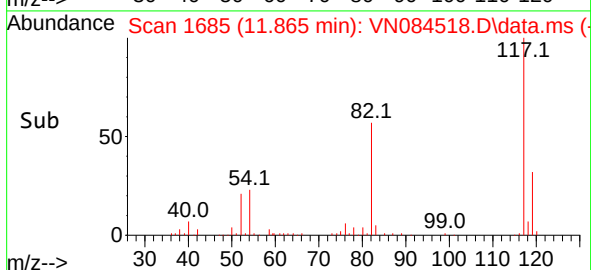
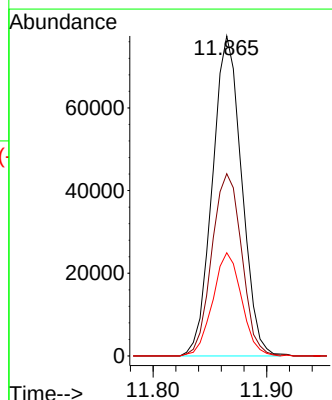
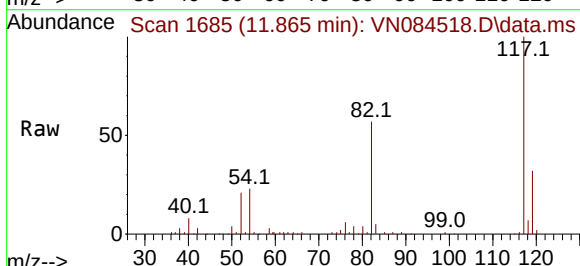
Tgt Ion:117 Resp: 138801

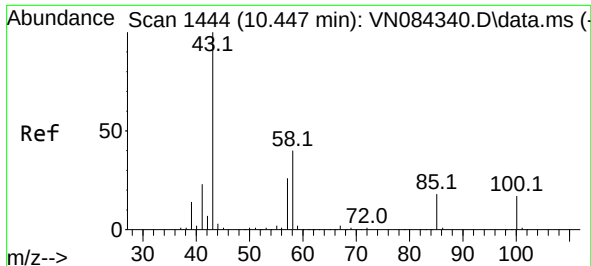
Ion Ratio Lower Upper

117 100

82 58.2 46.2 69.4

119 31.8 25.4 38.2

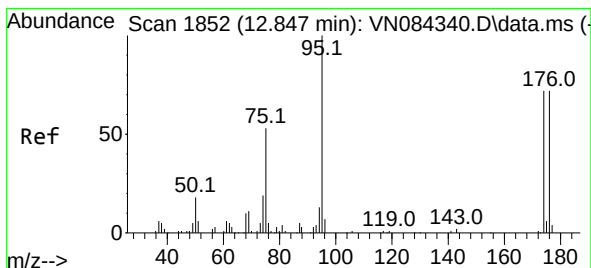
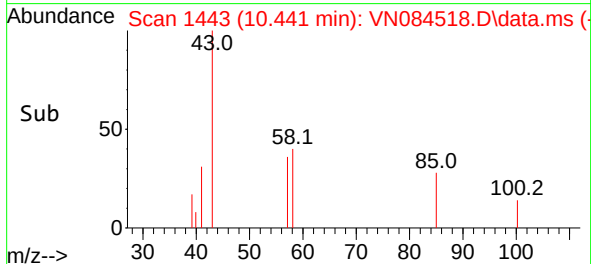
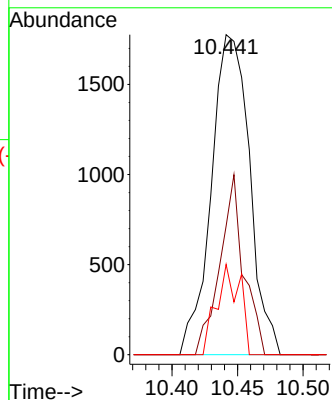
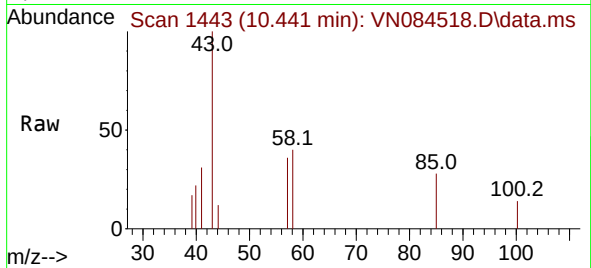




#58
4-Methyl-2-Pentanone
Concen: 1.395 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.006 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

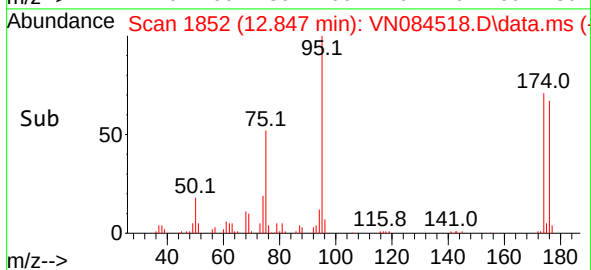
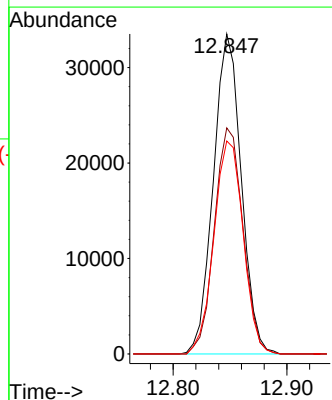
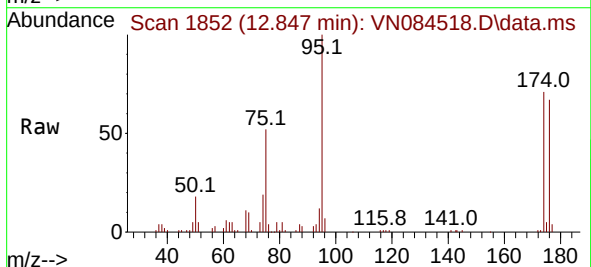
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

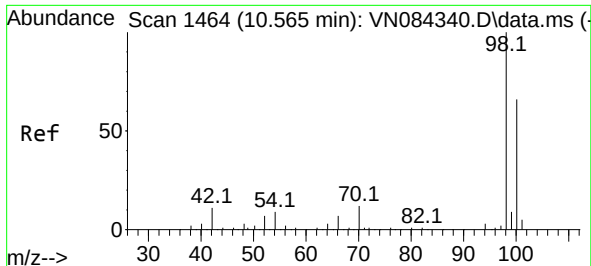
Tgt Ion: 43 Resp: 3607
Ion Ratio Lower Upper
43 100
58 35.1 31.9 47.9
85 17.2 14.6 22.0



#60
4-Bromofluorobenzene
Concen: 24.991 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

Tgt Ion: 95 Resp: 57249
Ion Ratio Lower Upper
95 100
174 72.4 58.2 87.2
176 69.7 56.4 84.6

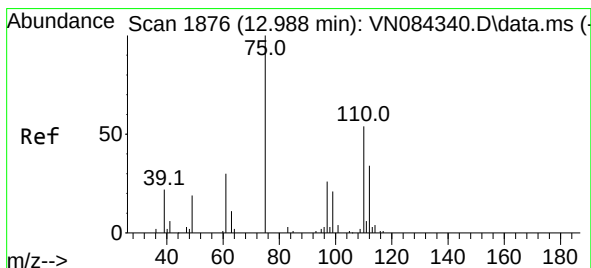
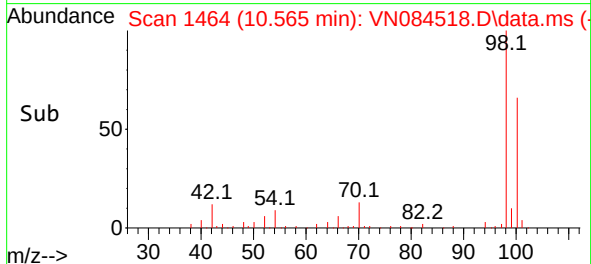
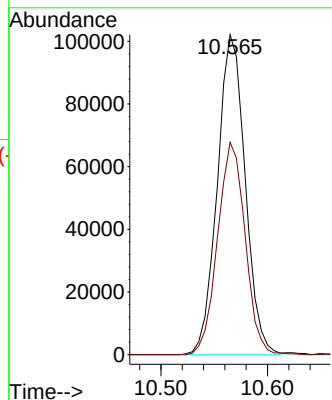
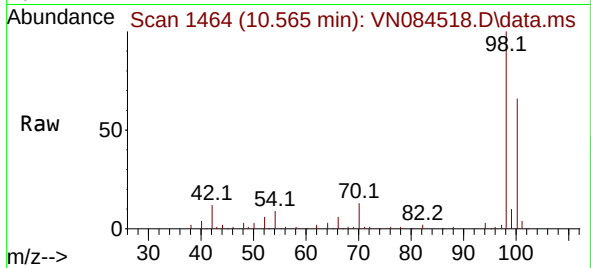




#63
Toluene-d8
Concen: 28.814 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

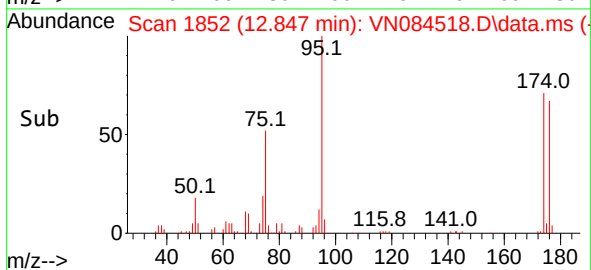
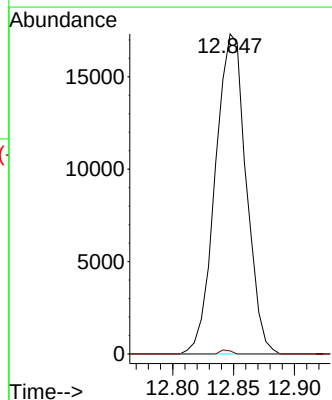
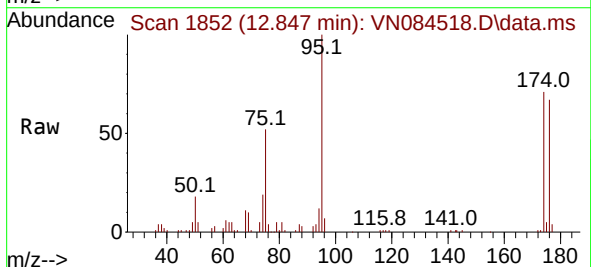
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(SEP)

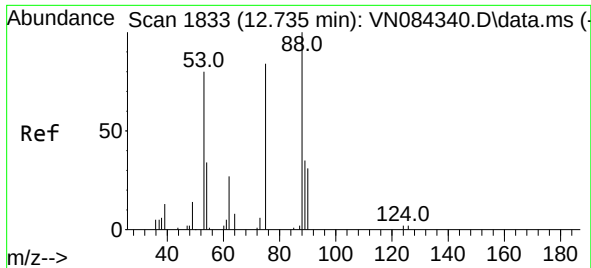
Tgt Ion: 98 Resp: 185282
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7



#72
1,2,3-Trichloropropane
Concen: 13.981 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084518.D
Acq: 25 Oct 2024 16:03

Tgt Ion: 75 Resp: 30525
Ion Ratio Lower Upper
75 100
77 0.4 0.0 414.0





#77

t-1,4-Dichloro-2-butene

Concen: 32.718 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN084518.D

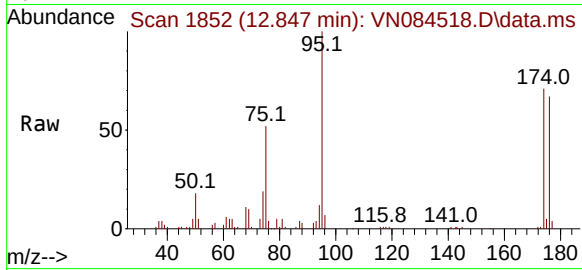
Acq: 25 Oct 2024 16:03

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(SEP)



Tgt Ion: 75 Resp: 30525

Ion Ratio Lower Upper

75 100

53 0.0 47.3 142.0#

89 0.0 22.9 68.8#

