

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062323\
 Data File : VN078381.D
 Acq On : 23 Jun 2023 16:27
 Operator : JC\MD
 Sample : 03395-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 19 Sample Multiplier: 1

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

Quant Time: Jun 24 01:22:44 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062323W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Sat Jun 24 00:59:50 2023
 Response via : Initial Calibration

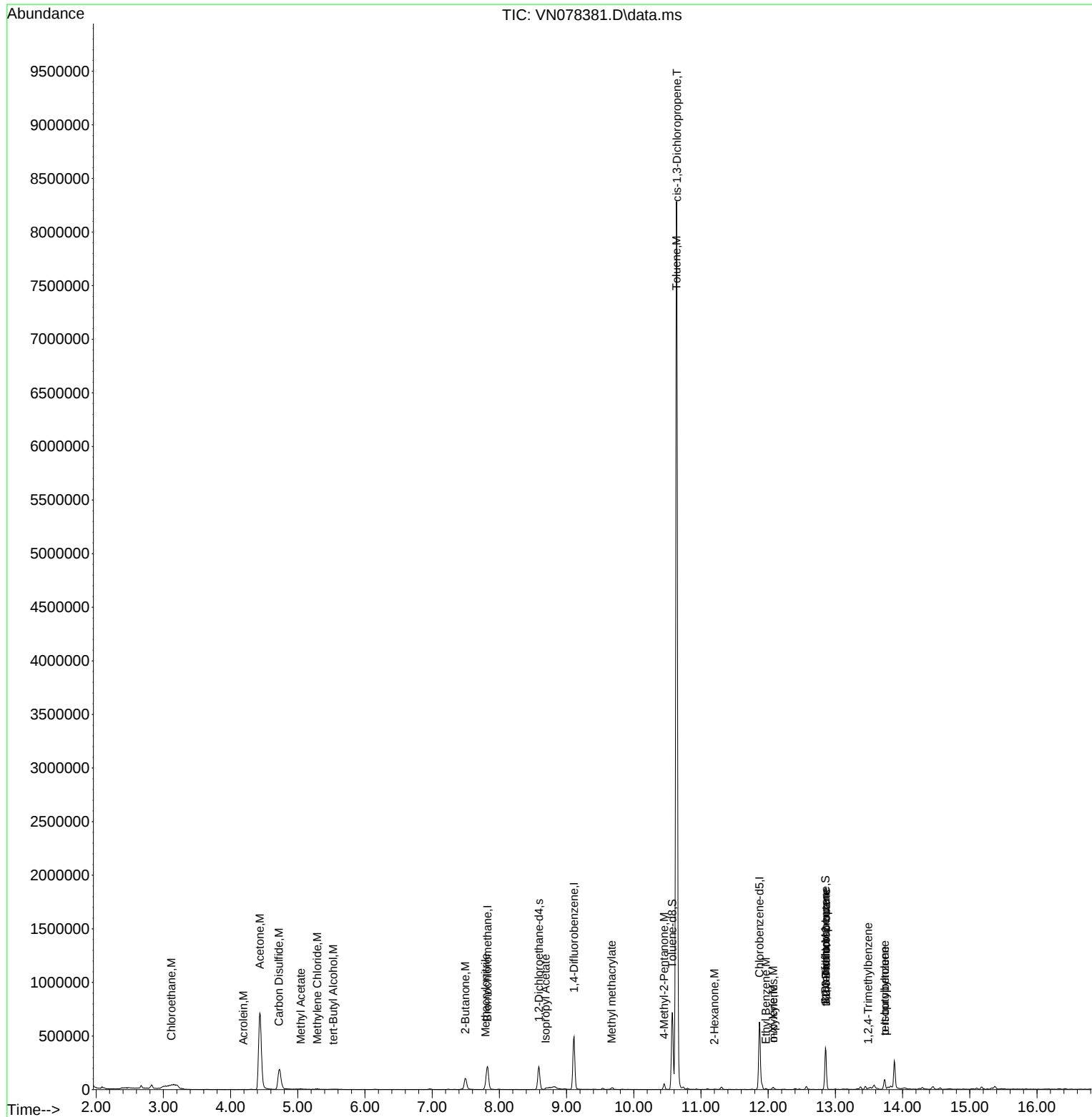
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Bromochloromethane	7.824	128	79749	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.112	114	432053	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.870	117	370375	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	173825	28.945	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	96.467%
60) 4-Bromofluorobenzene	12.853	95	135050	25.881	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	86.267%
63) Toluene-d8	10.570	98	526444	29.336	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.800%
Target Compounds						
					Qvalue	
6) Chloroethane	3.118	64	2988	0.585	ug/l #	43
12) Methyl Acetate	5.047	43	2270	0.326	ug/l	95
13) Acrolein	4.189	56	362	0.415	ug/l	84
15) Acetone	4.436	58	433587	804.904	ug/l	92
16) Carbon Disulfide	4.718	76	6177	0.503	ug/l #	90
18) Methylene Chloride	5.289	84	2400	0.451	ug/l #	58
23) tert-Butyl Alcohol	5.530	59	1663	2.357	ug/l #	100
30) 2-Butanone	7.494	43	165850	70.647	ug/l #	84
35) Methacrylonitrile	7.794	41	3076	1.143	ug/l #	26
44) Isopropyl Acetate	8.688	43	6554	0.734	ug/l #	46
46) Methyl methacrylate	9.671	41	1055	0.265	ug/l #	27
49) cis-1,3-Dichloropropene	10.641	75	45086	5.681	ug/l #	1
56) Bromoform	12.853	173	1456	0.463	ug/l #	1
58) 4-Methyl-2-Pentanone	10.453	43	34048	6.884	ug/l	98
59) 2-Hexanone	11.200	43	2695	0.789	ug/l #	68
62) Toluene	10.635	91	6457949	299.598	ug/l	100
66) Ethyl Benzene	11.965	91	6053	0.276	ug/l	96
67) m/p-Xylenes	12.076	106	4978	0.600	ug/l	88
68) o-Xylene	12.076	106	4978	0.619	ug/l	94
72) 1,2,3-Trichloropropane	12.859	75	72430	13.522	ug/l	1
77) t-1,4-Dichloro-2-butene	12.859	75	72430	41.834	ug/l #	15
79) tert-butylbenzene	13.735	119	46358	3.439	ug/l	63
80) 1,2,4-Trimethylbenzene	13.488	105	5420	0.350	ug/l	92
82) p-Isopropyltoluene	13.735	119	46358	3.427	ug/l	96

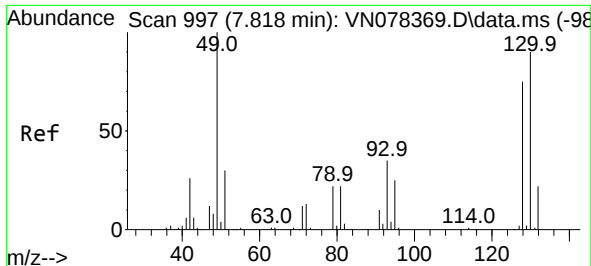
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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001-WILLETS-PT-BLVD(JUNE)

Quant Time: Jun 24 01:22:44 2023
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N062323W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Sat Jun 24 00:59:50 2023
Response via : Initial Calibration

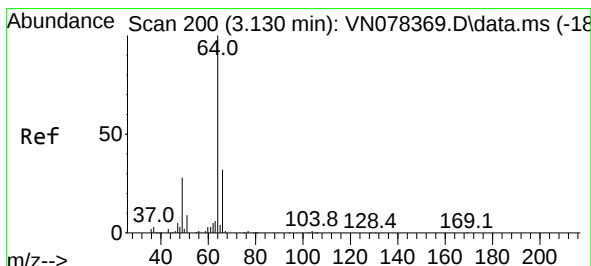
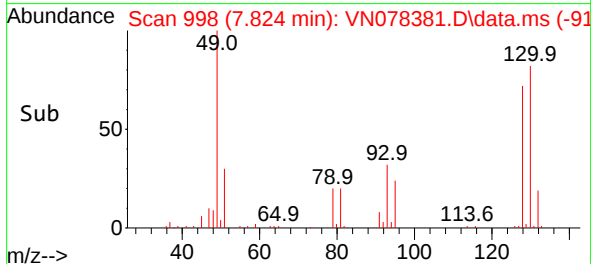
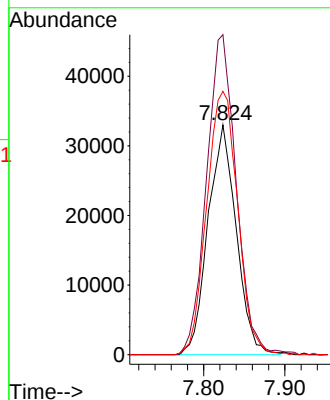
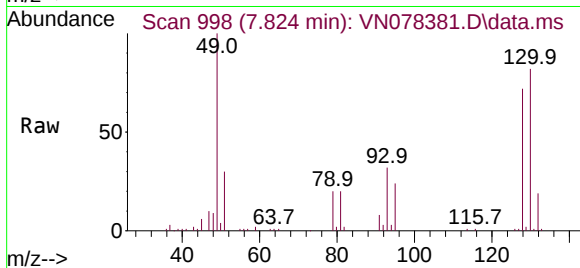




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.824 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

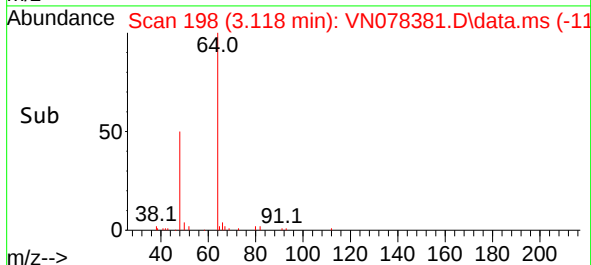
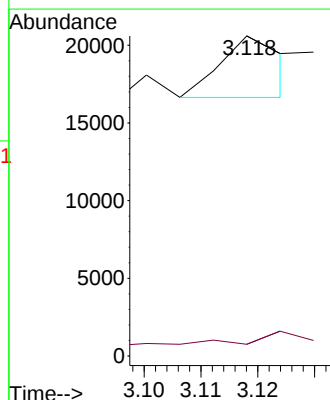
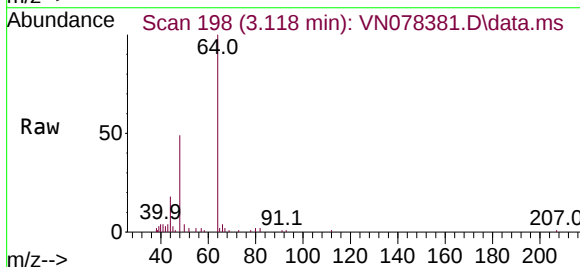
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

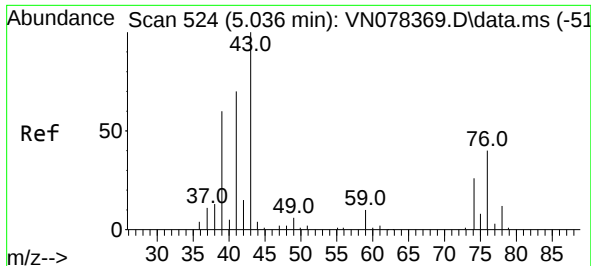
Tgt Ion:128 Resp: 79749
Ion Ratio Lower Upper
128 100
49 145.2 0.0 370.8
130 126.1 0.0 307.0



#6
Chloroethane
Concen: 0.585 ug/l
RT: 3.118 min Scan# 198
Delta R.T. -0.012 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

Tgt Ion: 64 Resp: 2988
Ion Ratio Lower Upper
64 100
66 0.1 25.7 38.5#

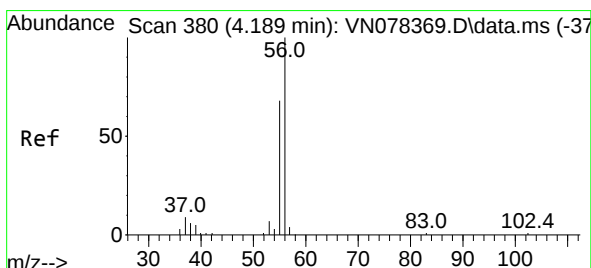
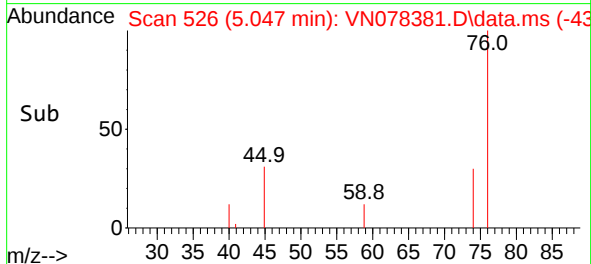
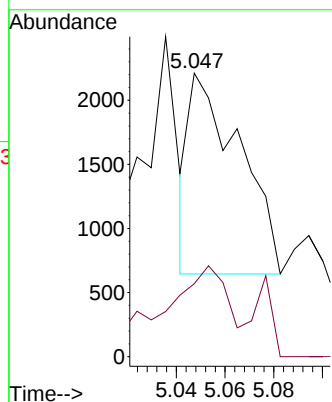
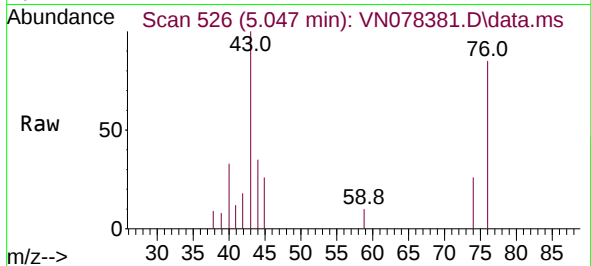




#12
Methyl Acetate
Concen: 0.326 ug/l
RT: 5.047 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

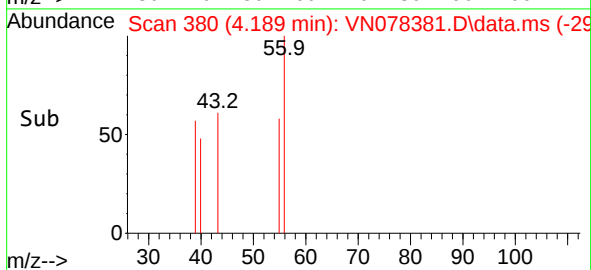
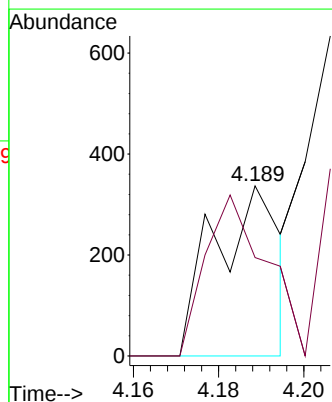
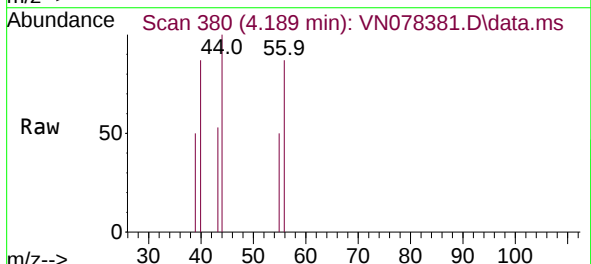
Instrument :
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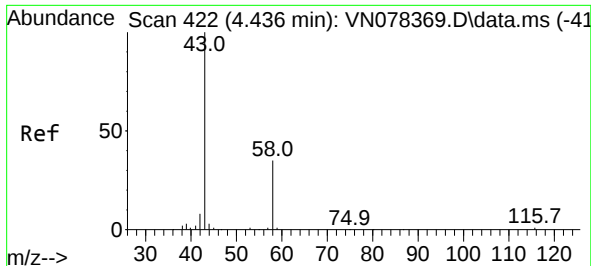
Tgt Ion: 43 Resp: 2270
Ion Ratio Lower Upper
43 100
74 28.0 20.5 30.7



#13
Acrolein
Concen: 0.415 ug/l
RT: 4.189 min Scan# 380
Delta R.T. 0.000 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

Tgt Ion: 56 Resp: 362
Ion Ratio Lower Upper
56 100
55 87.0 59.0 88.4

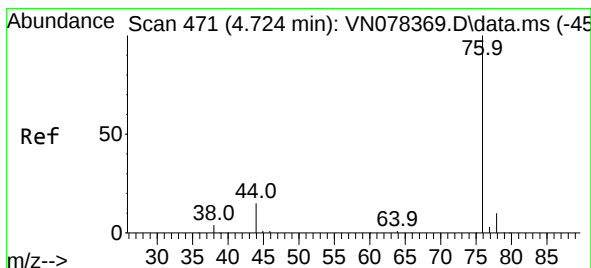
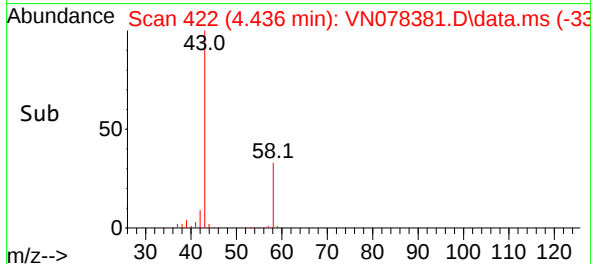
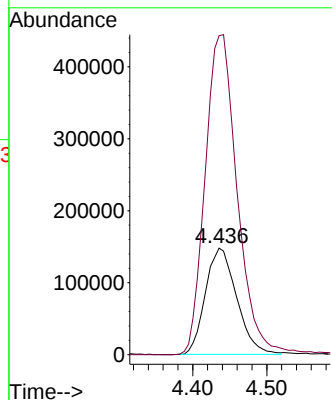
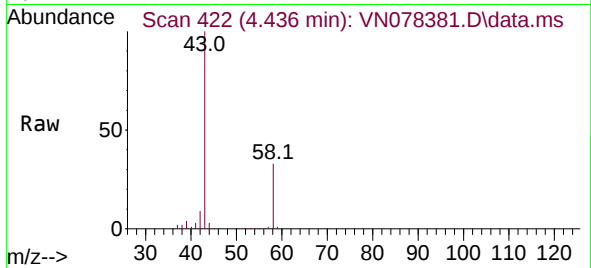




#15
Acetone
Concen: 804.904 ug/l
RT: 4.436 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

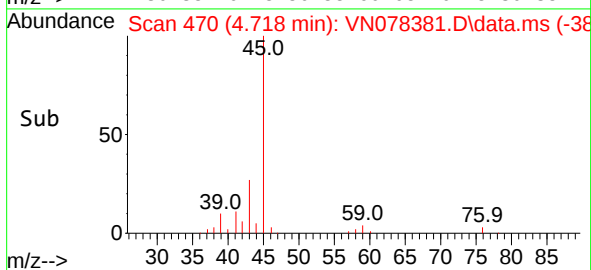
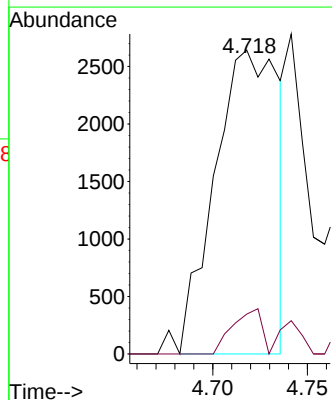
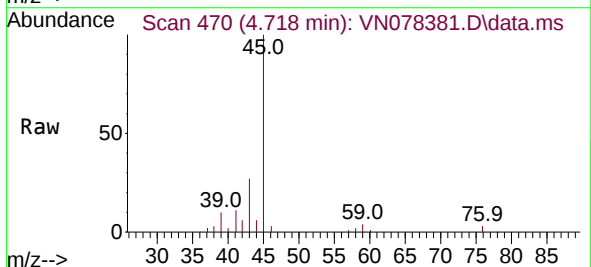
Instrument :
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ClientSampleId :
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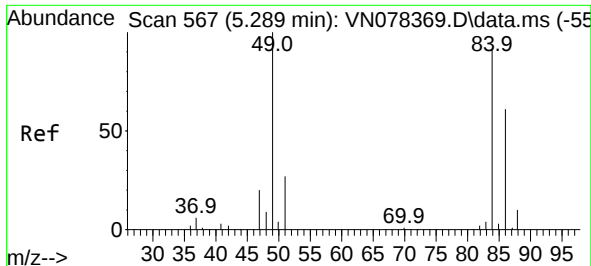
Tgt Ion: 58 Resp: 433587
Ion Ratio Lower Upper
58 100
43 299.7 227.5 341.3



#16
Carbon Disulfide
Concen: 0.503 ug/l
RT: 4.718 min Scan# 470
Delta R.T. -0.006 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

Tgt Ion: 76 Resp: 6177
Ion Ratio Lower Upper
76 100
78 13.1 7.7 11.5#

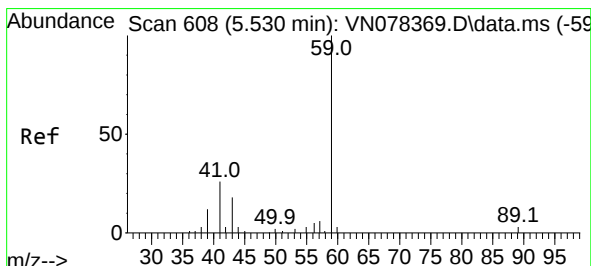
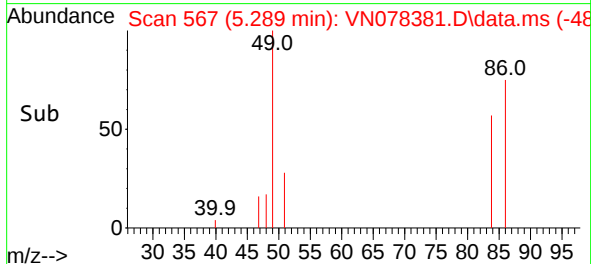
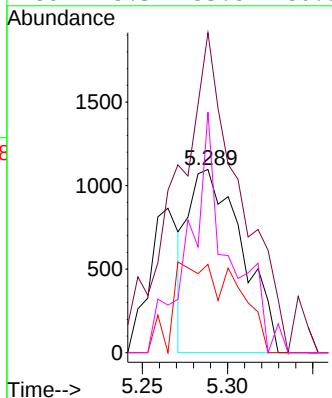
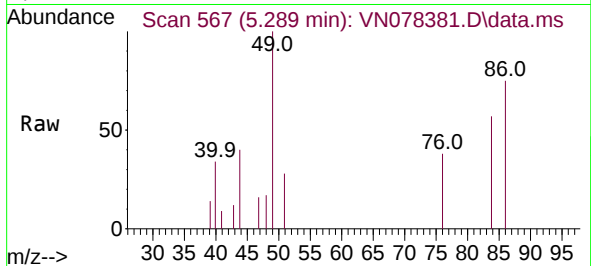




#18
Methylene Chloride
Concen: 0.451 ug/l
RT: 5.289 min Scan# 567
Delta R.T. 0.000 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

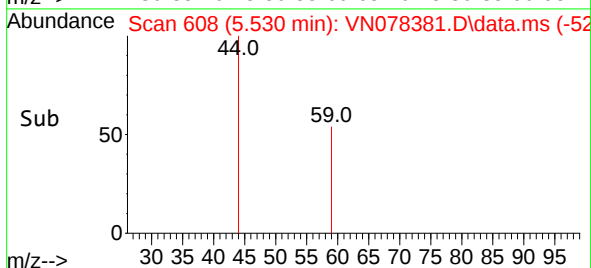
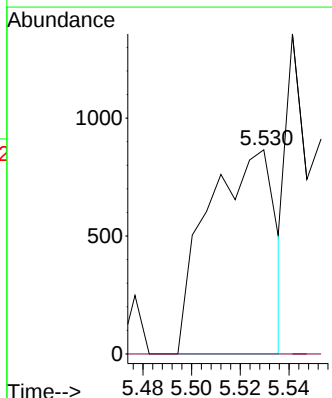
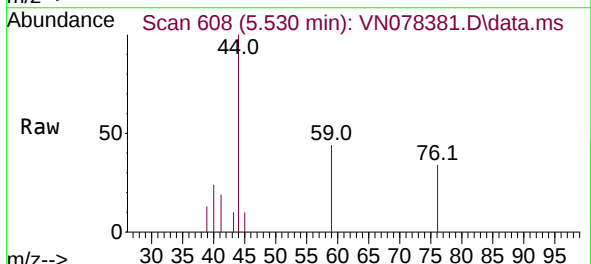
Instrument :
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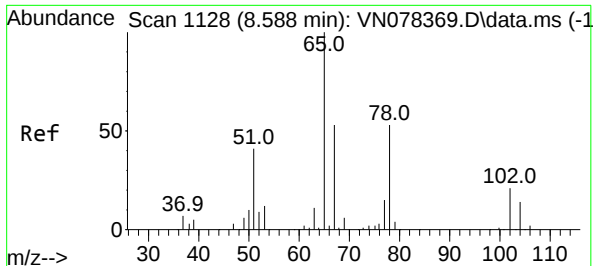
Tgt Ion:	84	Resp:	2400
Ion	Ratio	Lower	Upper
84	100		
49	145.6	88.1	132.1#
51	48.2	24.0	36.0#
86	115.3	53.8	80.8#



#23
tert-Butyl Alcohol
Concen: 2.357 ug/l
RT: 5.530 min Scan# 608
Delta R.T. 0.000 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

Tgt Ion:	59	Resp:	1663
Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1#

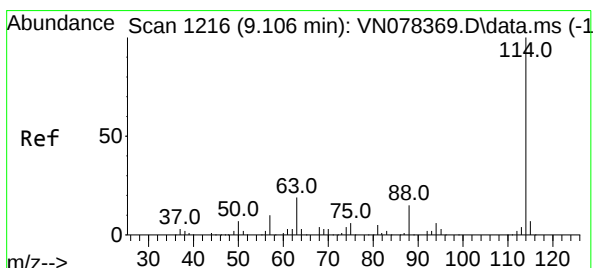
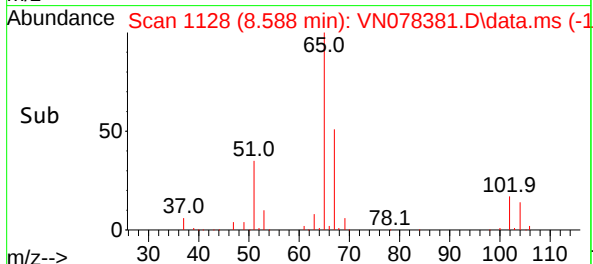
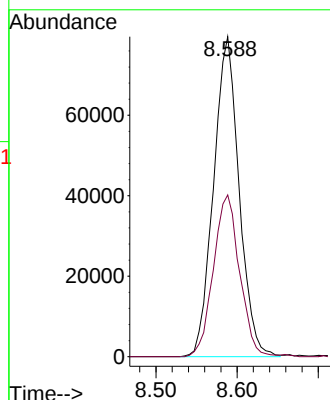
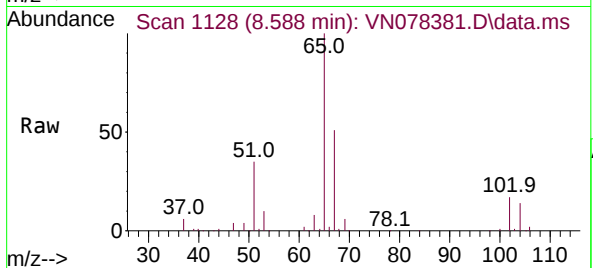




#27
 1,2-Dichloroethane-d4
 Concen: 28.945 ug/l
 RT: 8.588 min Scan# 1128
 Delta R.T. 0.000 min
 Lab File: VN078381.D
 Acq: 23 Jun 2023 16:27

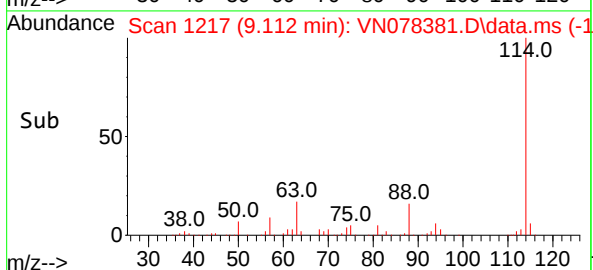
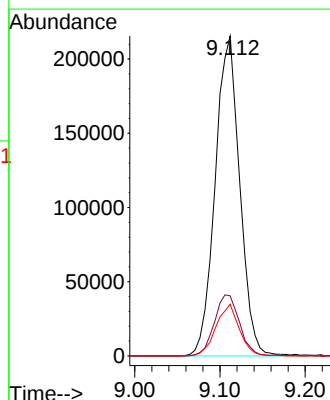
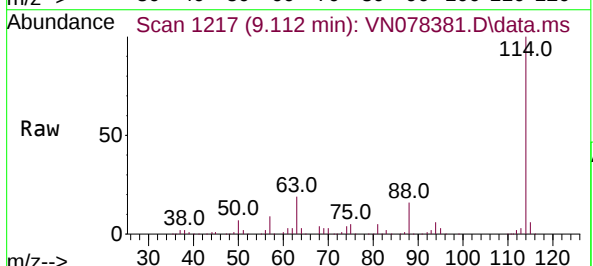
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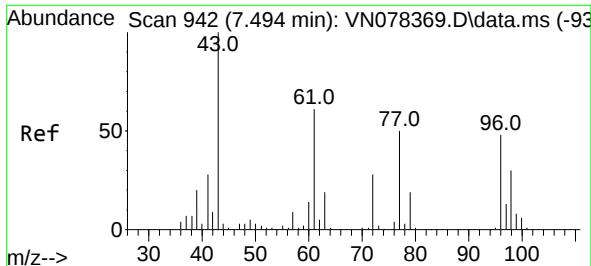
Tgt Ion: 65 Resp: 173825
 Ion Ratio Lower Upper
 65 100
 67 51.8 42.9 64.3



#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.112 min Scan# 1217
 Delta R.T. 0.006 min
 Lab File: VN078381.D
 Acq: 23 Jun 2023 16:27

Tgt Ion: 114 Resp: 432053
 Ion Ratio Lower Upper
 114 100
 63 19.5 15.2 22.8
 88 15.4 12.5 18.7

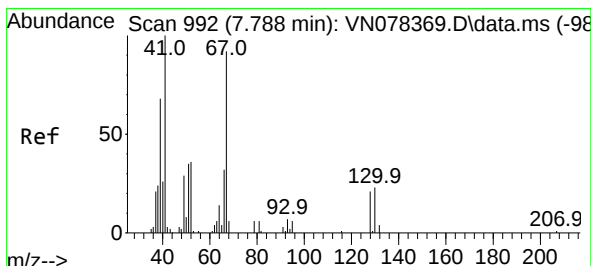
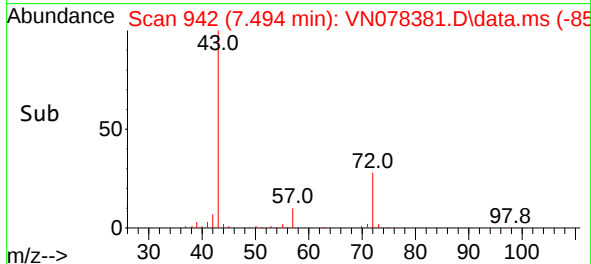
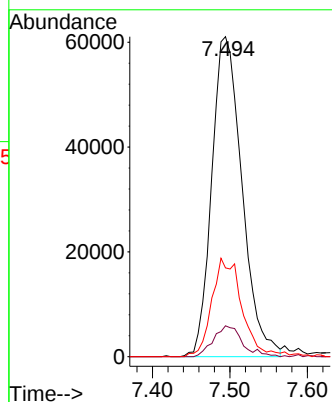
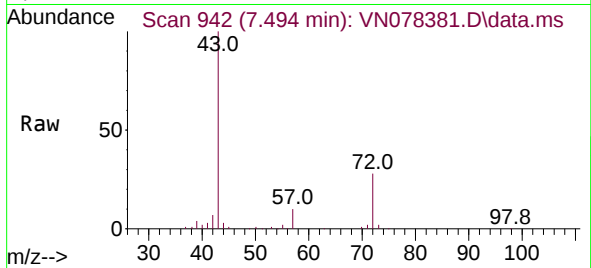




#30
2-Butanone
Concen: 70.647 ug/l
RT: 7.494 min Scan# 942
Delta R.T. 0.000 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

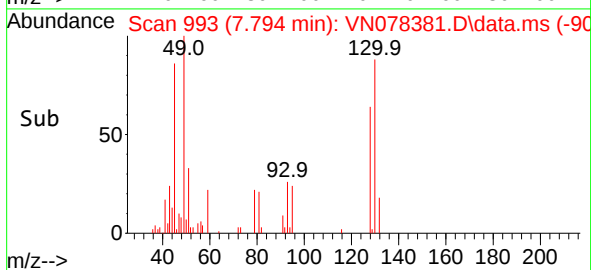
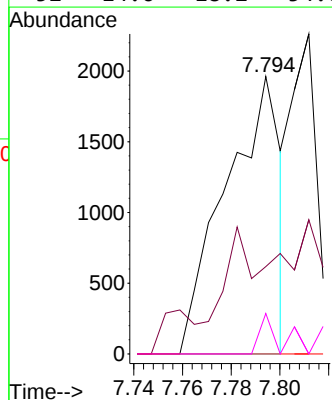
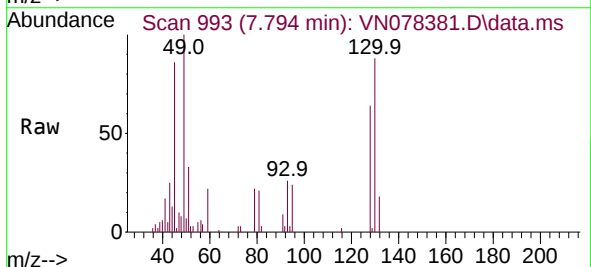
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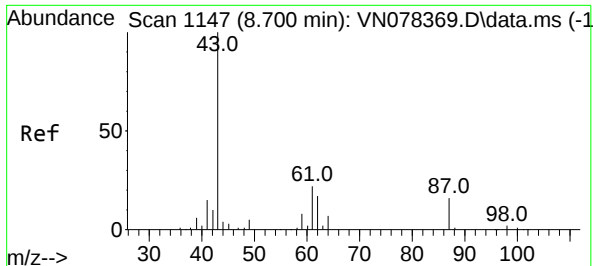
Tgt Ion: 43 Resp: 165850
Ion Ratio Lower Upper
43 100
57 8.5 6.8 10.2
72 18.9 23.8 35.6#



#35
Methacrylonitrile
Concen: 1.143 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.006 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

Tgt Ion: 41 Resp: 3076
Ion Ratio Lower Upper
41 100
39 15.7 33.9 101.6#
67 0.0 45.9 137.6#
52 14.6 18.2 54.6#

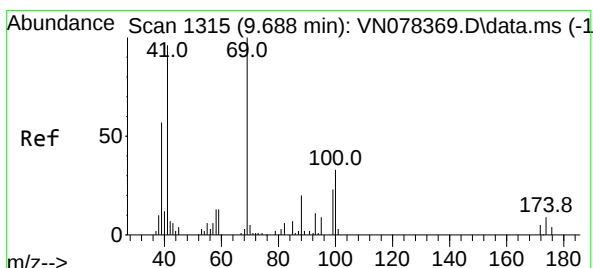
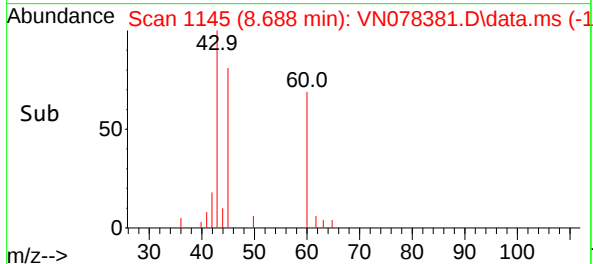
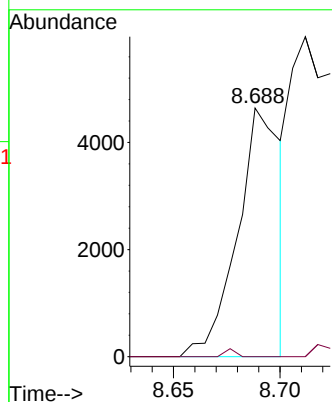
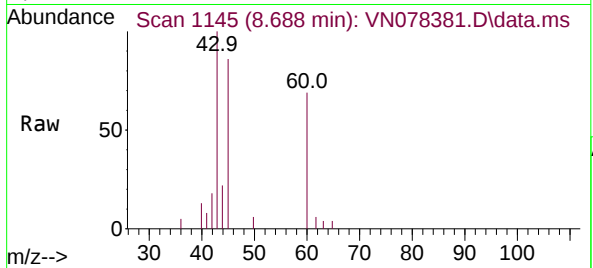




#44
Isopropyl Acetate
Concen: 0.734 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.012 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

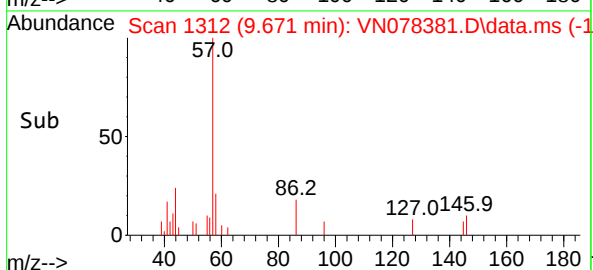
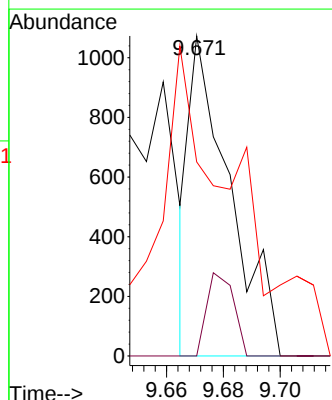
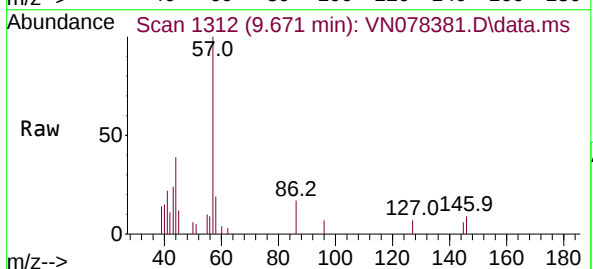
Instrument :
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ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

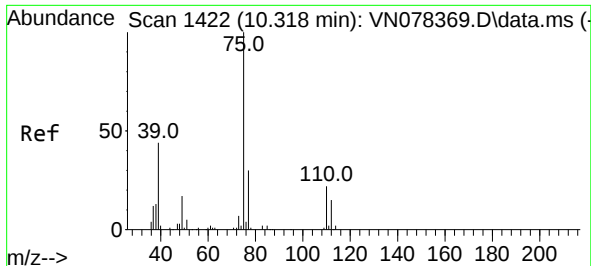
Tgt Ion: 43 Resp: 6554
Ion Ratio Lower Upper
43 100
61 0.0 23.0 34.6#



#46
Methyl methacrylate
Concen: 0.265 ug/l
RT: 9.671 min Scan# 1312
Delta R.T. -0.018 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

Tgt Ion: 41 Resp: 1055
Ion Ratio Lower Upper
41 100
69 0.0 49.0 147.0#
39 38.5 31.6 94.8





#49

cis-1,3-Dichloropropene

Concen: 5.681 ug/l

RT: 10.641 min Scan# 14

Delta R.T. 0.323 min

Lab File: VN078381.D

Acq: 23 Jun 2023 16:27

Instrument :

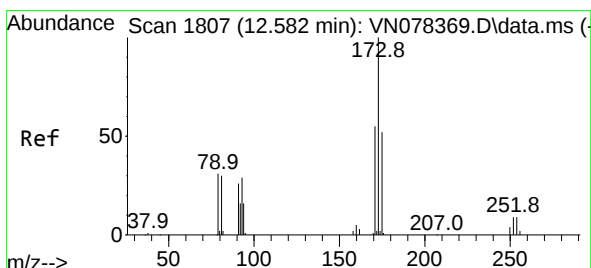
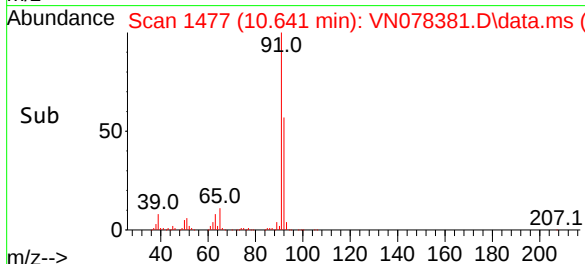
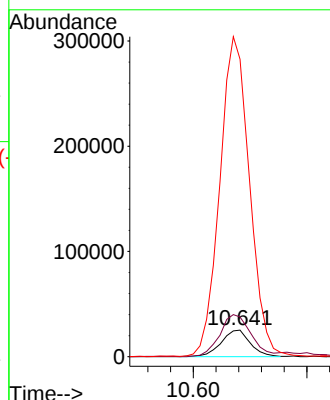
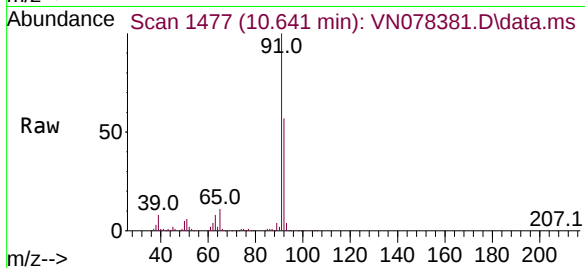
MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(JUNE)

Tgt Ion: 75 Resp: 45086

Ion	Ratio	Lower	Upper
75	100		
77	149.6	24.0	36.0#
39	1120.9	35.1	52.7#



#56

Bromoform

Concen: 0.463 ug/l

RT: 12.853 min Scan# 1853

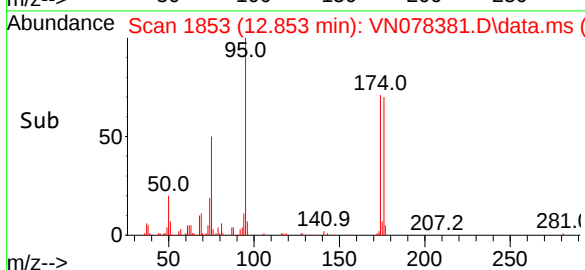
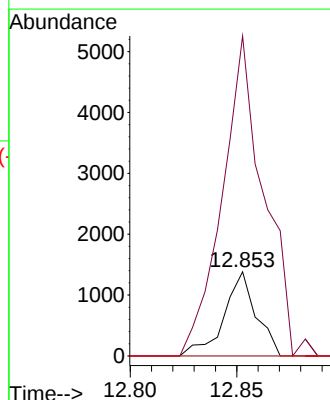
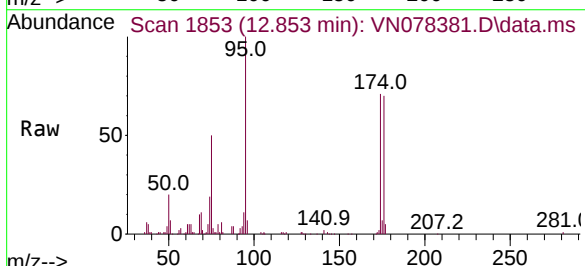
Delta R.T. 0.271 min

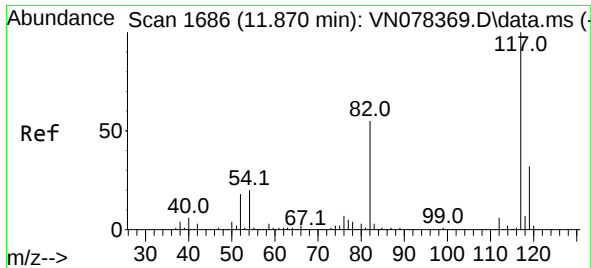
Lab File: VN078381.D

Acq: 23 Jun 2023 16:27

Tgt Ion: 173 Resp: 1456

Ion	Ratio	Lower	Upper
173	100		
175	485.6	40.7	61.1#
254	0.0	6.5	9.7#

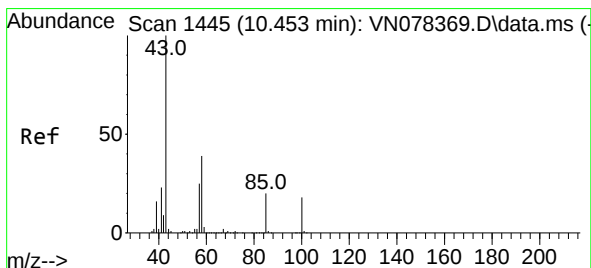
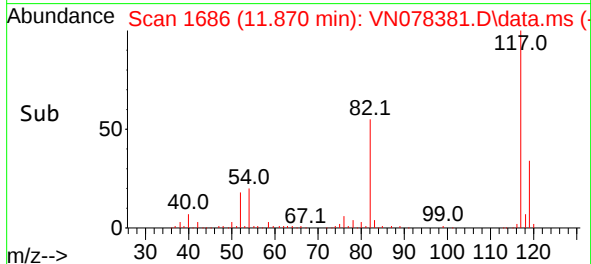
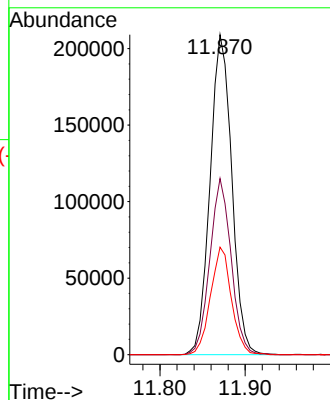
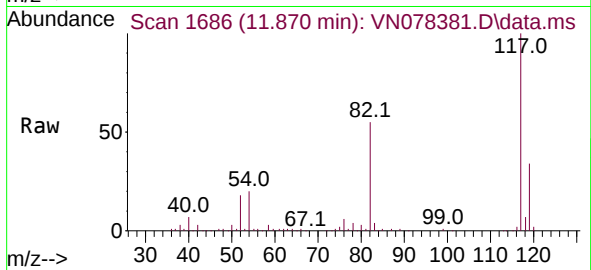




#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.870 min Scan# 117
Delta R.T. 0.000 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

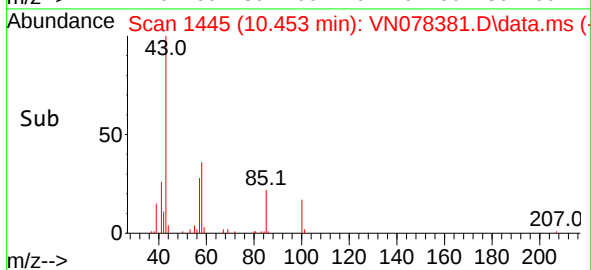
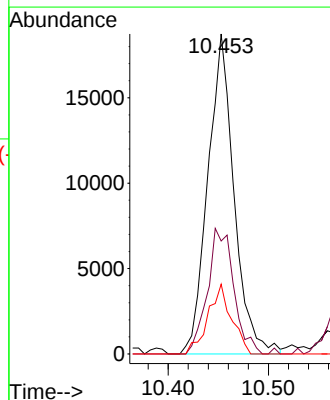
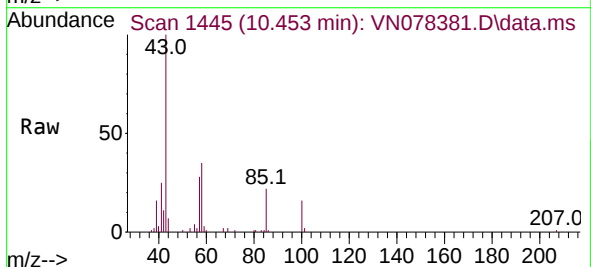
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

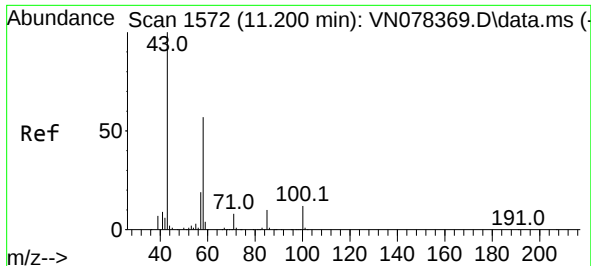
Tgt Ion:117 Resp: 370375
Ion Ratio Lower Upper
117 100
82 53.8 43.9 65.9
119 32.3 26.2 39.4



#58
4-Methyl-2-Pentanone
Concen: 6.884 ug/l
RT: 10.453 min Scan# 1445
Delta R.T. 0.000 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

Tgt Ion: 43 Resp: 34048
Ion Ratio Lower Upper
43 100
58 39.3 32.6 48.8
85 19.5 16.2 24.2

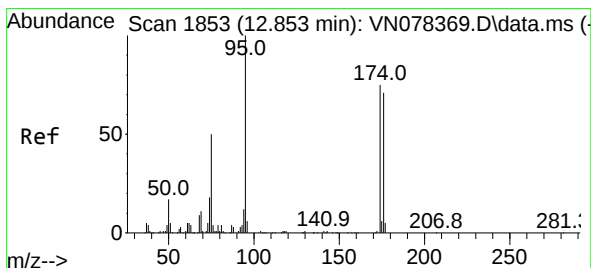
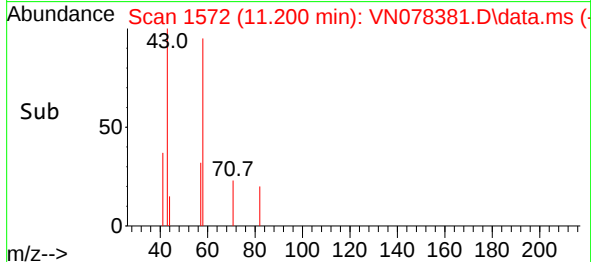
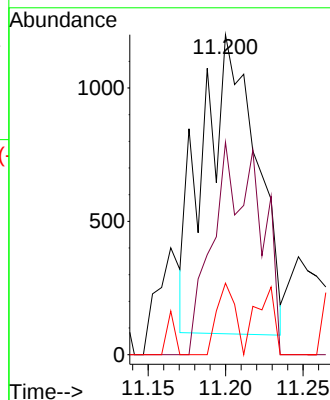
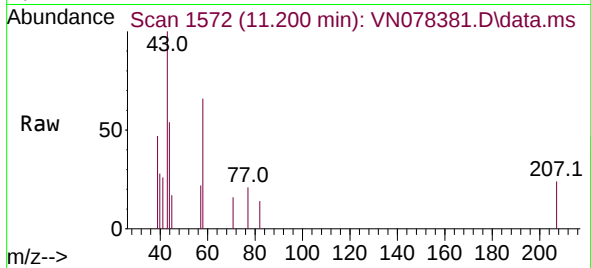




#59
2-Hexanone
Concen: 0.789 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

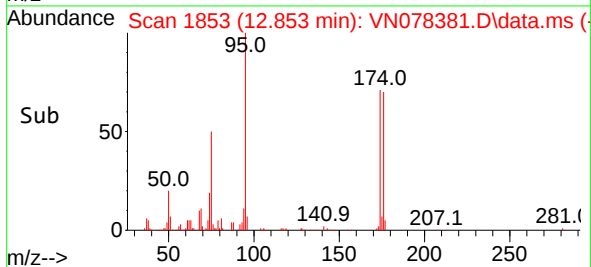
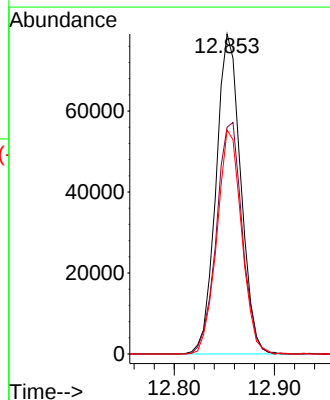
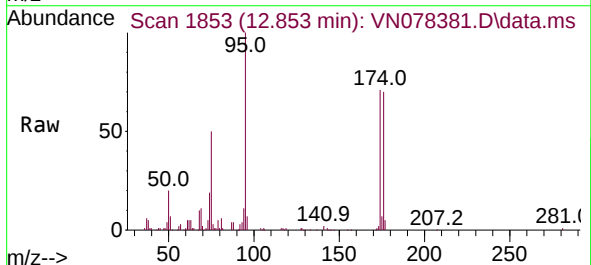
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

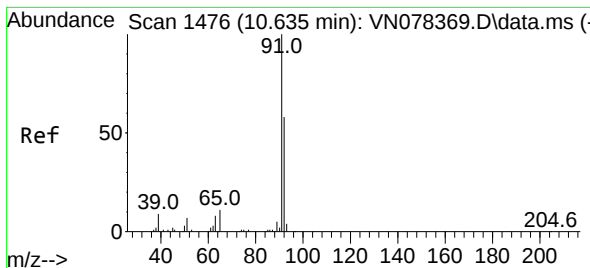
Tgt Ion: 43 Resp: 2695
Ion Ratio Lower Upper
43 100
58 31.7 45.9 68.9#
57 8.1 15.8 23.6#



#60
4-Bromofluorobenzene
Concen: 25.881 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.000 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

Tgt Ion: 95 Resp: 135050
Ion Ratio Lower Upper
95 100
174 75.5 61.7 92.5
176 70.0 58.1 87.1





#62

Toluene

Concen: 299.598 ug/l

RT: 10.635 min Scan# 1476

Delta R.T. 0.000 min

Lab File: VN078381.D

Acq: 23 Jun 2023 16:27

Instrument :

MSVOA_N

ClientSampleId :

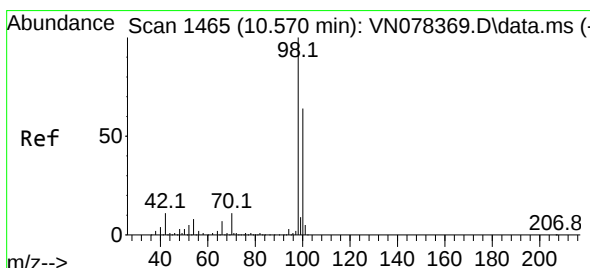
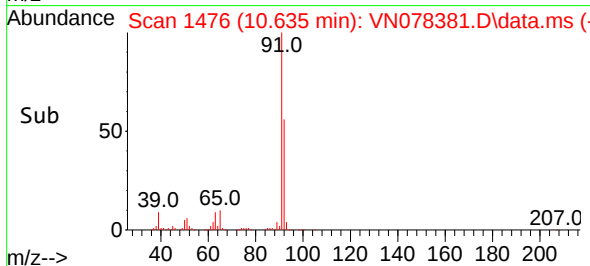
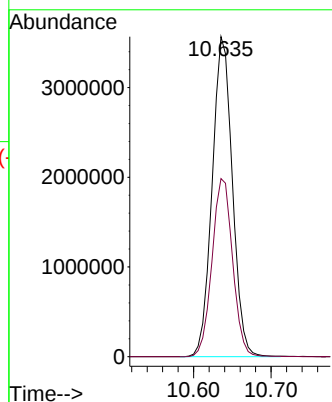
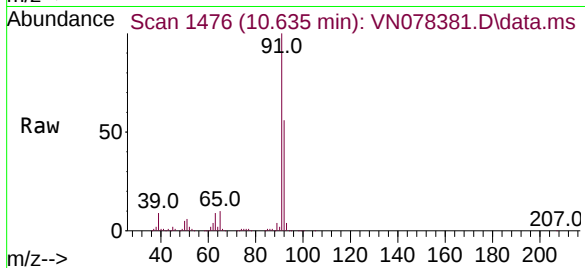
001-WILLETS-PT-BLVD(JUNE)

Tgt Ion: 91 Resp: 6457949

Ion Ratio Lower Upper

91 100

92 56.7 45.2 67.8



#63

Toluene-d8

Concen: 29.336 ug/l

RT: 10.570 min Scan# 1465

Delta R.T. 0.000 min

Lab File: VN078381.D

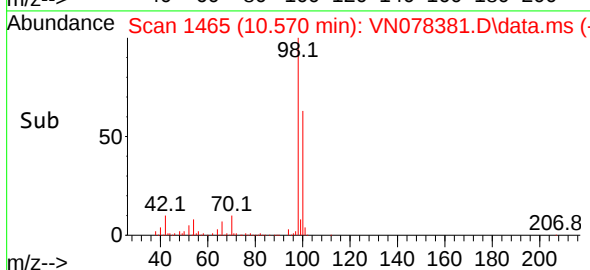
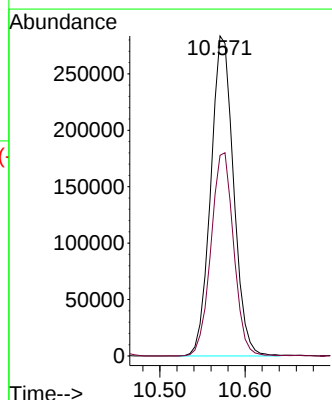
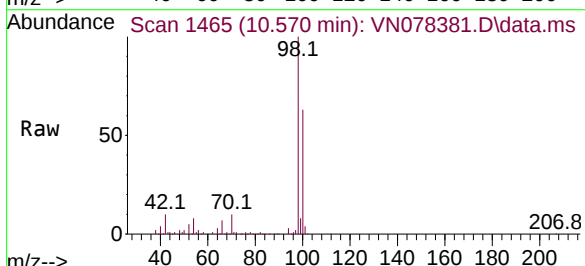
Acq: 23 Jun 2023 16:27

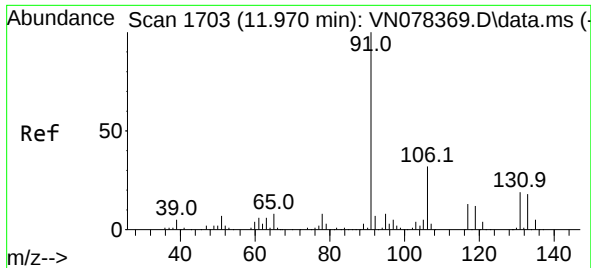
Tgt Ion: 98 Resp: 526444

Ion Ratio Lower Upper

98 100

100 63.2 49.7 74.5

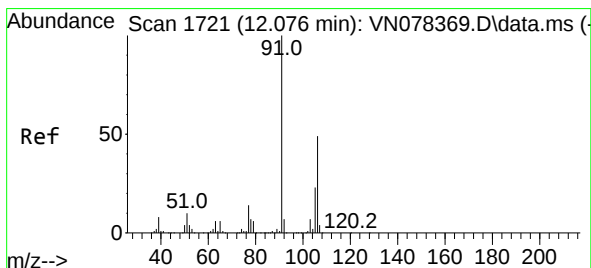
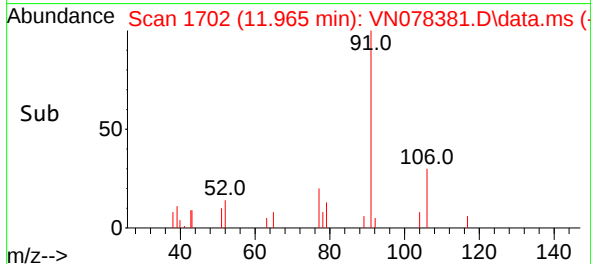
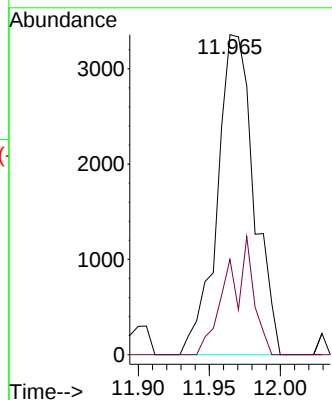
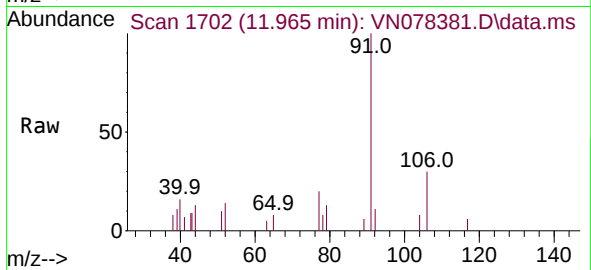




#66
Ethyl Benzene
Concen: 0.276 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.006 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

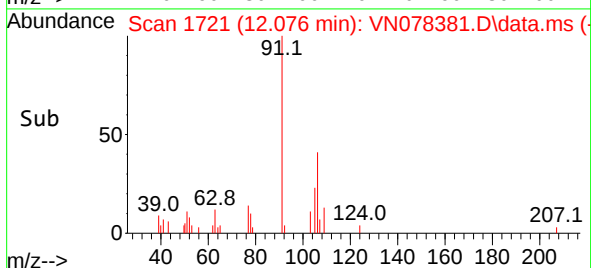
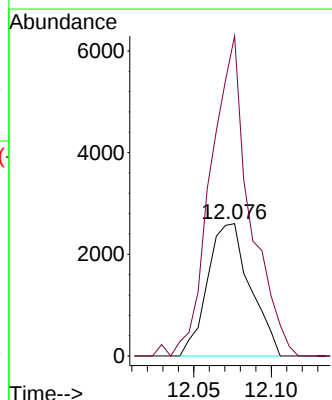
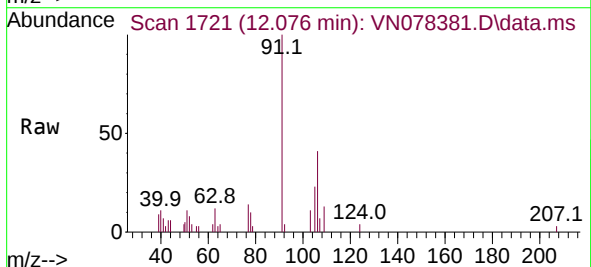
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

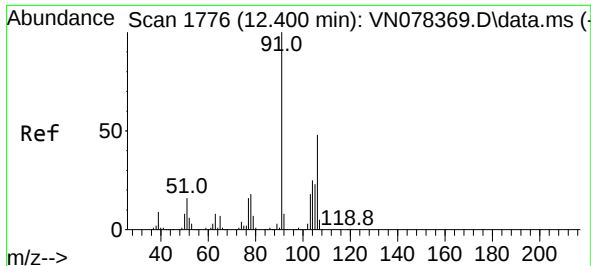
Tgt Ion: 91 Resp: 6053
Ion Ratio Lower Upper
91 100
106 29.8 25.6 38.4



#67
m/p-Xylenes
Concen: 0.600 ug/l
RT: 12.076 min Scan# 1721
Delta R.T. 0.000 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

Tgt Ion:106 Resp: 4978
Ion Ratio Lower Upper
106 100
91 221.3 162.5 243.7

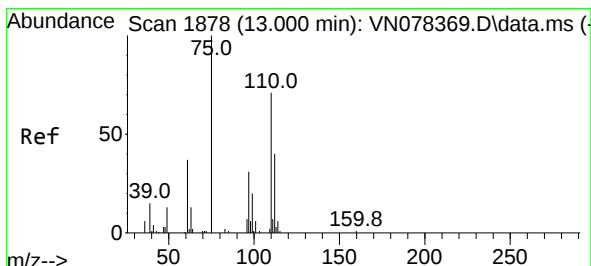
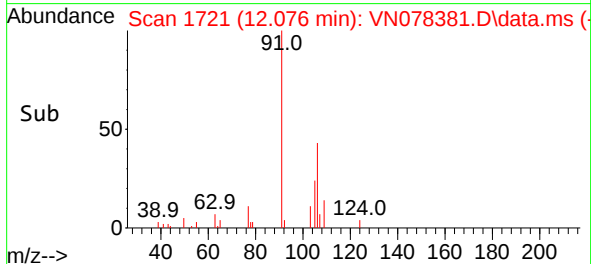
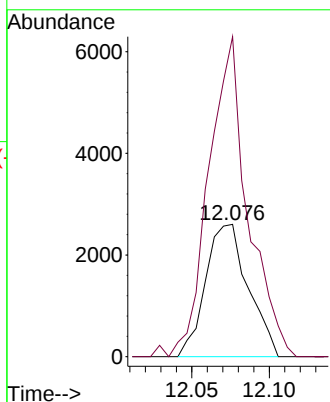
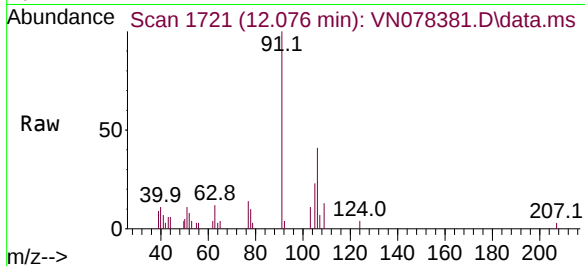




#68
o-Xylene
Concen: 0.619 ug/l
RT: 12.076 min Scan# 11
Delta R.T. -0.324 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

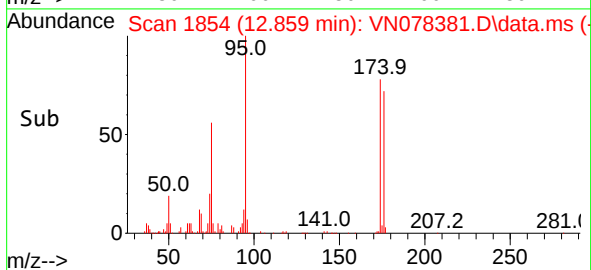
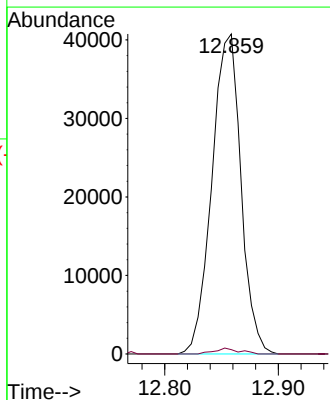
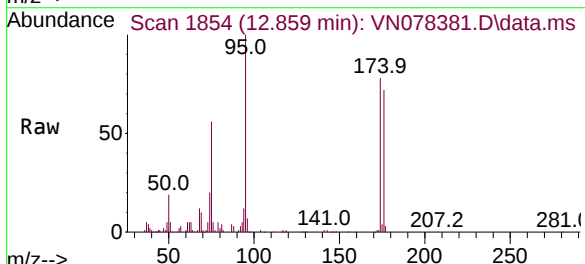
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

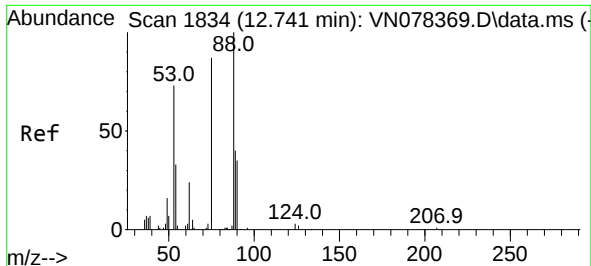
Tgt Ion:106 Resp: 4978
Ion Ratio Lower Upper
106 100
91 221.3 106.1 318.3



#72
1,2,3-Trichloropropane
Concen: 13.522 ug/l
RT: 12.859 min Scan# 1854
Delta R.T. -0.141 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

Tgt Ion: 75 Resp: 72430
Ion Ratio Lower Upper
75 100
77 1.2 0.0 387.4

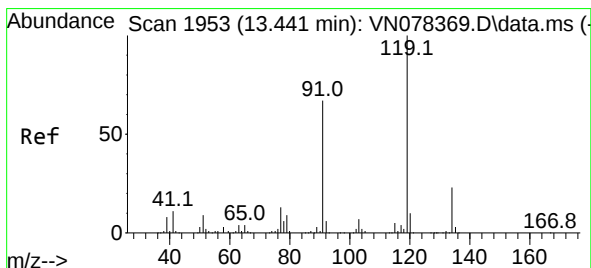
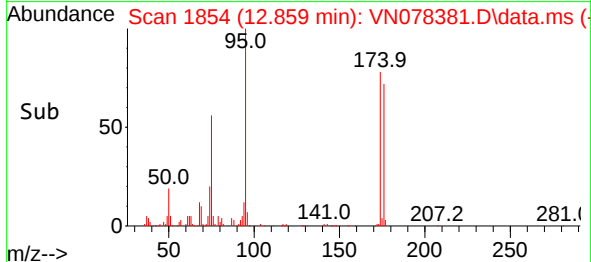
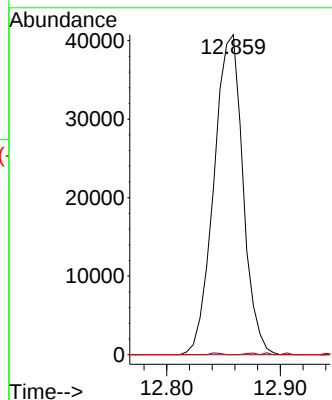
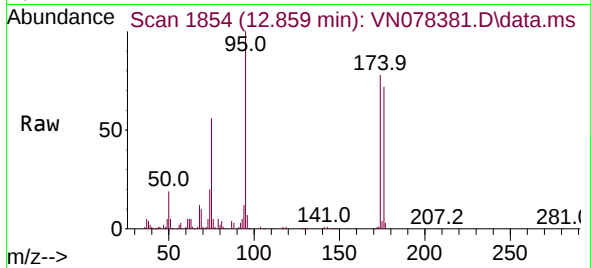




#77
t-1,4-Dichloro-2-butene
Concen: 41.834 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

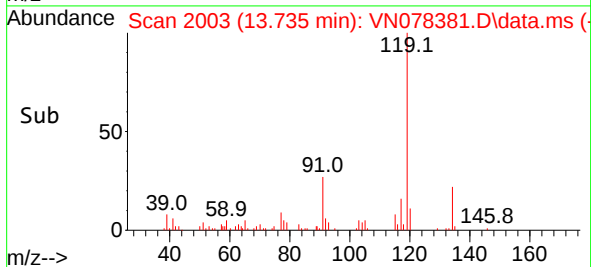
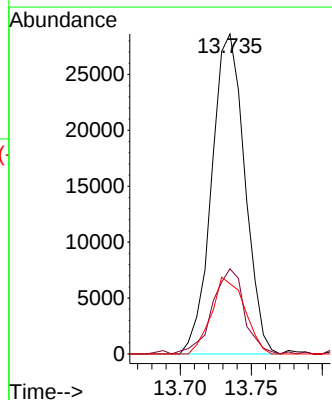
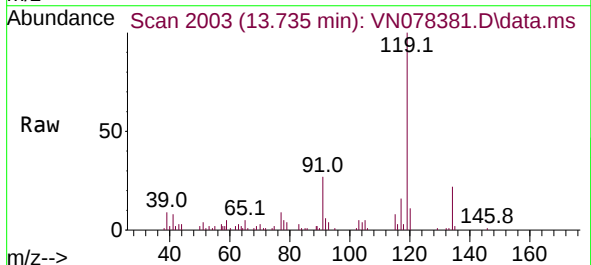
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JUNE)

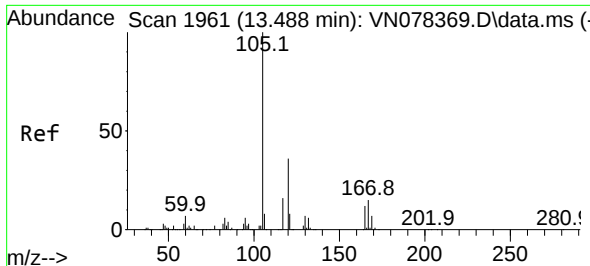
Tgt Ion: 75 Resp: 72430
Ion Ratio Lower Upper
75 100
53 0.0 41.6 124.9#
89 0.0 25.1 75.4#



#79
tert-butylbenzene
Concen: 3.439 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.294 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

Tgt Ion: 119 Resp: 46358
Ion Ratio Lower Upper
119 100
91 25.7 0.0 126.6
134 24.0 0.0 44.0

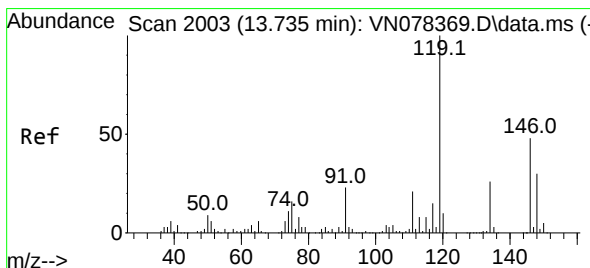
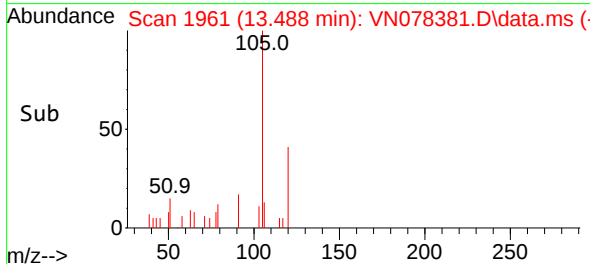
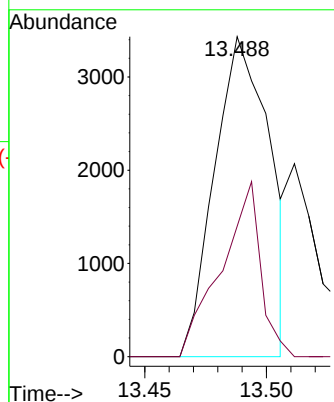
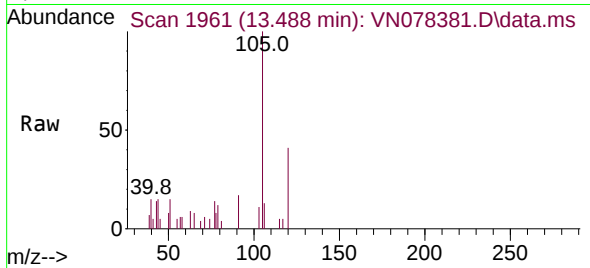




#80
1,2,4-Trimethylbenzene
Concen: 0.350 ug/l
RT: 13.488 min Scan# 1961
Delta R.T. 0.000 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

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

Tgt Ion:105 Resp: 5420
Ion Ratio Lower Upper
105 100
120 39.0 0.0 88.2



#82
p-Isopropyltoluene
Concen: 3.427 ug/l
RT: 13.735 min Scan# 2003
Delta R.T. 0.000 min
Lab File: VN078381.D
Acq: 23 Jun 2023 16:27

Tgt Ion:119 Resp: 46358
Ion Ratio Lower Upper
119 100
134 24.0 0.0 52.4
91 25.7 0.0 48.2

