

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN030923\
 Data File : VN076901.D
 Acq On : 09 Mar 2023 14:28
 Operator : JC\MD
 Sample : 01774-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

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

Quant Time: Mar 10 01:32:29 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N030823W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Mar 09 04:16:54 2023
 Response via : Initial Calibration

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

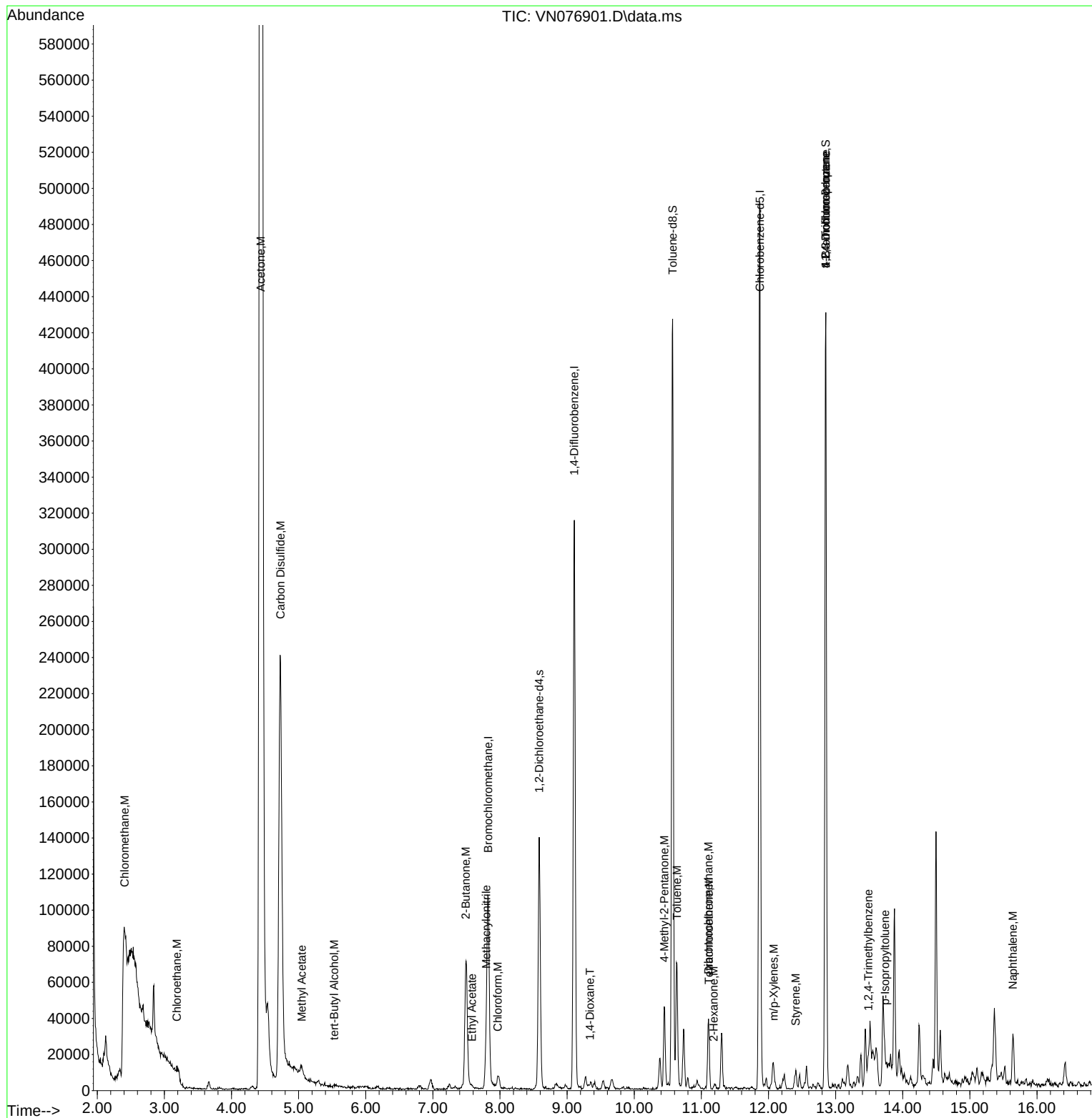
Internal Standards						
1) Bromochloromethane	7.825	128	38761	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.107	114	264565	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	293803	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	113712	31.917	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	106.400%
60) 4-Bromofluorobenzene	12.854	95	154827	27.843	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	92.800%
63) Toluene-d8	10.572	98	298322	28.869	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	96.233%
Target Compounds						
					Qvalue	
3) Chloromethane	2.407	50	4202	0.927	ug/l #	43
6) Chloroethane	3.184	64	1434	0.590	ug/l #	45
12) Methyl Acetate	5.048	43	10586	1.516	ug/l	95
15) Acetone	4.437	58	985813	1574.281	ug/l	93
16) Carbon Disulfide	4.731	76	46013	3.908	ug/l	97
23) tert-Butyl Alcohol	5.531	59	1215	1.818	ug/l #	100
25) Chloroform	7.966	83	4607	0.524	ug/l	84
30) 2-Butanone	7.489	43	118111	41.544	ug/l #	95
35) Methacrylonitrile	7.795	41	2499	0.781	ug/l #	53
43) Ethyl Acetate	7.583	43	1861	0.324	ug/l #	91
45) 1,4-Dioxane	9.342	88	436	5.573	ug/l #	40
53) Dibromochloromethane	11.107	129	9655	2.066	ug/l #	10
58) 4-Methyl-2-Pentanone	10.448	43	31350	5.282	ug/l #	94
59) 2-Hexanone	11.183	43	1028	0.244	ug/l	90
61) Tetrachloroethene	11.113	164	9048	1.951	ug/l	93
62) Toluene	10.636	91	52132	2.575	ug/l	100
67) m/p-Xylenes	12.077	106	4544	0.546	ug/l	86
69) Styrene	12.407	104	2778	0.211	ug/l #	55
72) 1,2,3-Trichloropropane	12.854	75	82030	14.023	ug/l	1
77) t-1,4-Dichloro-2-butene	12.854	75	82030	45.937	ug/l #	9
80) 1,2,4-Trimethylbenzene	13.489	105	9735	0.541	ug/l	71
82) p-Isopropyltoluene	13.736	119	9422	0.532	ug/l	84
91) Naphthalene	15.642	128	24967	1.676	ug/l	97

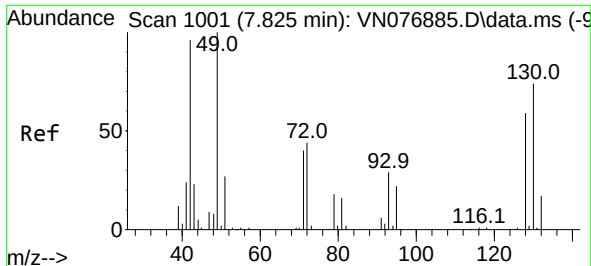
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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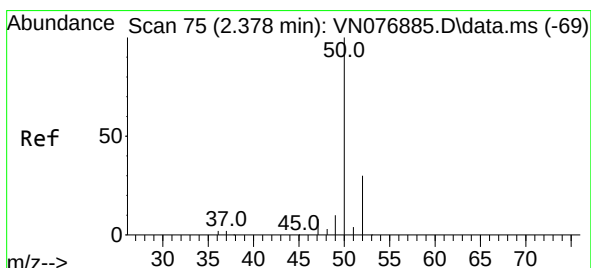
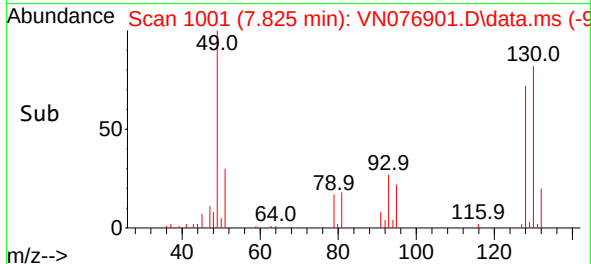
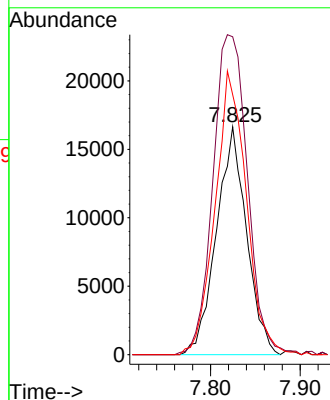
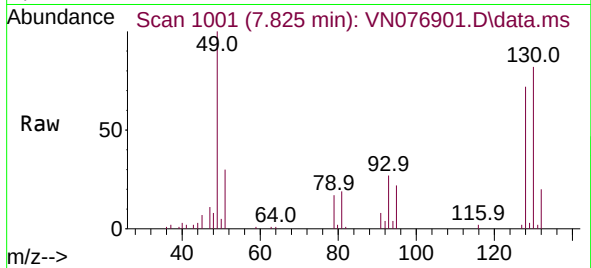




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.825 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

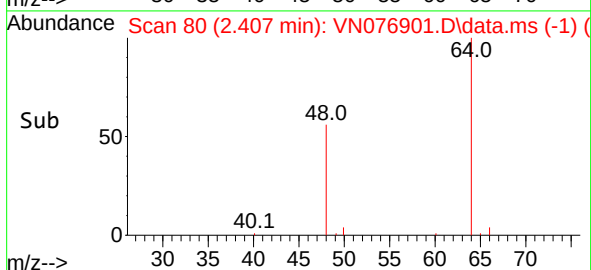
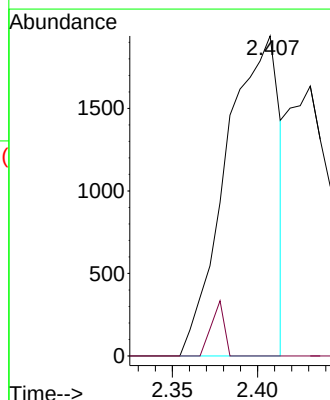
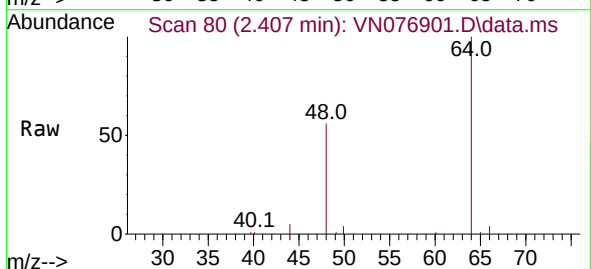
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

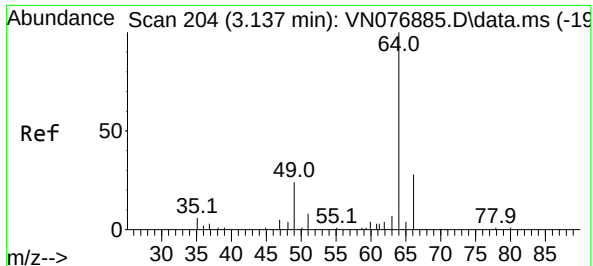
Tgt Ion:128 Resp: 38761
Ion Ratio Lower Upper
128 100
49 160.7 0.0 461.8
130 129.2 0.0 295.3



#3
Chloromethane
Concen: 0.927 ug/l
RT: 2.407 min Scan# 80
Delta R.T. 0.029 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

Tgt Ion: 50 Resp: 4202
Ion Ratio Lower Upper
50 100
52 0.0 25.3 37.9#

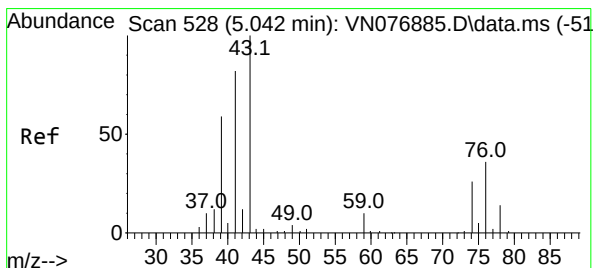
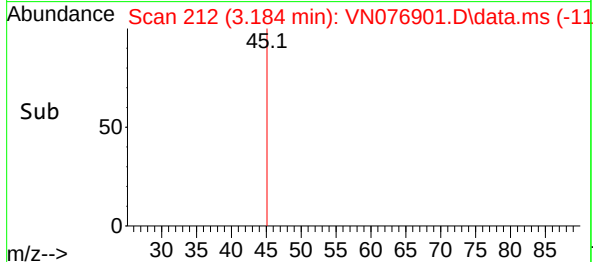
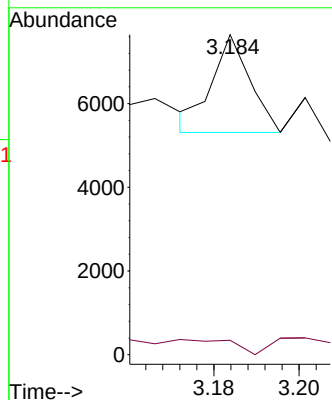
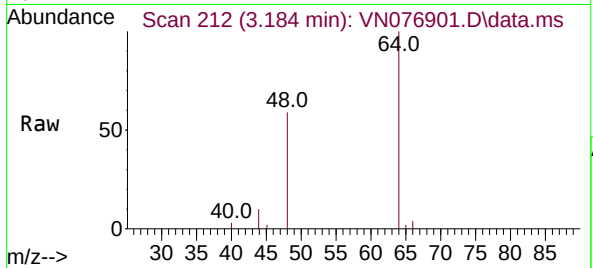




#6
Chloroethane
Concen: 0.590 ug/l
RT: 3.184 min Scan# 21
Delta R.T. 0.047 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

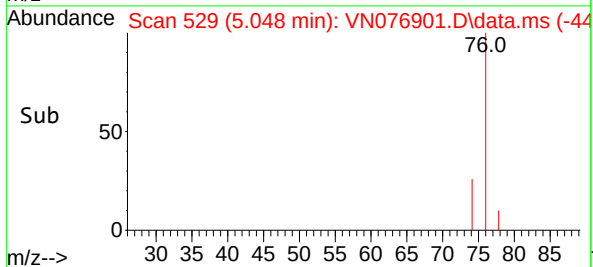
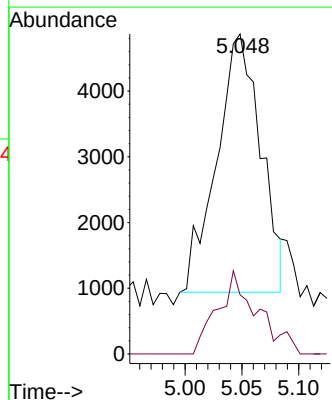
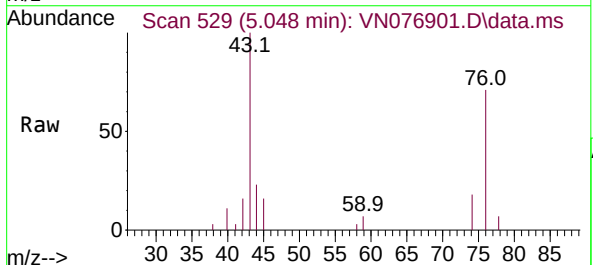
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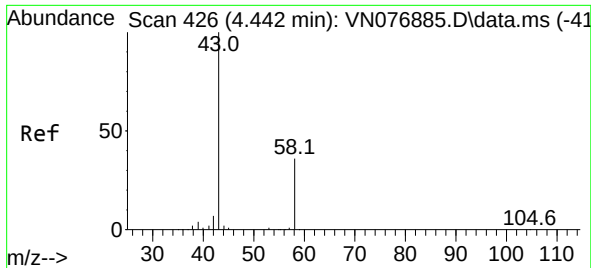
Tgt Ion: 64 Resp: 1434
Ion Ratio Lower Upper
64 100
66 0.0 23.8 35.6#



#12
Methyl Acetate
Concen: 1.516 ug/l
RT: 5.048 min Scan# 529
Delta R.T. 0.011 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

Tgt Ion: 43 Resp: 10586
Ion Ratio Lower Upper
43 100
74 21.4 19.0 28.4





#15

Acetone

Concen: 1574.281 ug/l

RT: 4.437 min Scan# 41

Delta R.T. -0.000 min

Lab File: VN076901.D

Acq: 09 Mar 2023 14:28

Instrument :

MSVOA_N

ClientSampleId :

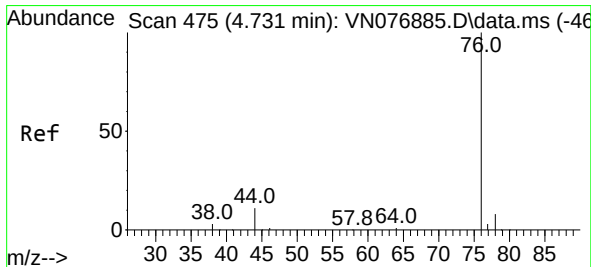
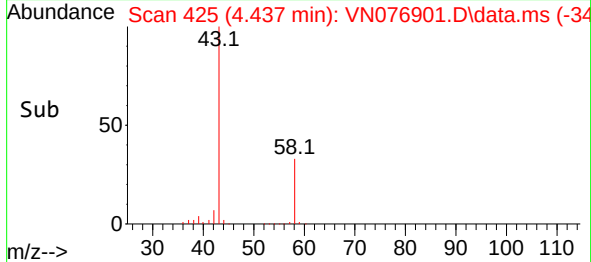
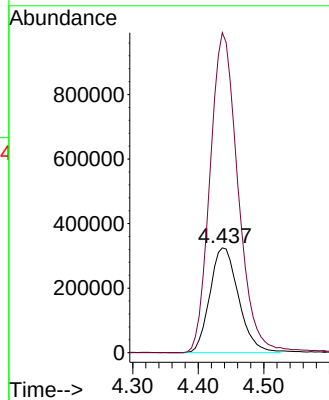
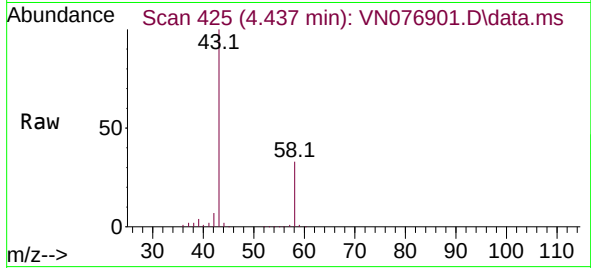
001-WILLETS-PT-BLVD(MAR)

Tgt Ion: 58 Resp: 985813

Ion Ratio Lower Upper

58 100

43 305.2 255.4 383.0



#16

Carbon Disulfide

Concen: 3.908 ug/l

RT: 4.731 min Scan# 475

Delta R.T. -0.000 min

Lab File: VN076901.D

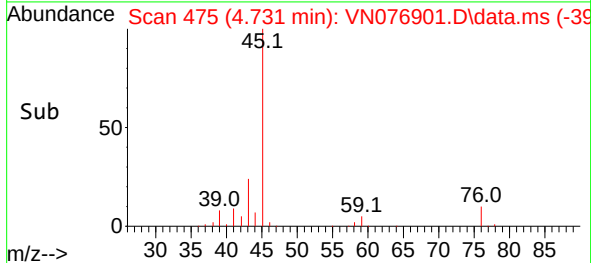
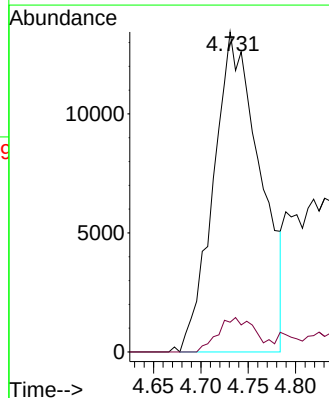
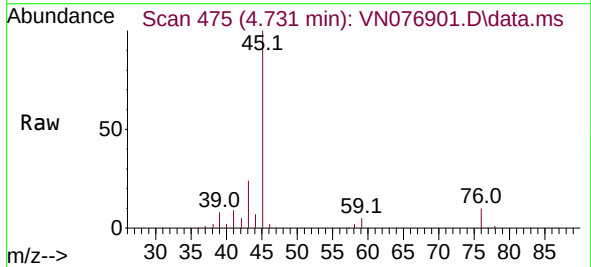
Acq: 09 Mar 2023 14:28

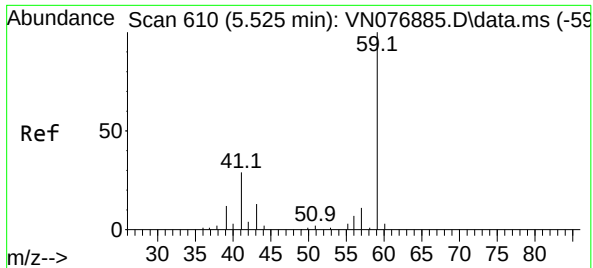
Tgt Ion: 76 Resp: 46013

Ion Ratio Lower Upper

76 100

78 9.3 6.6 9.8

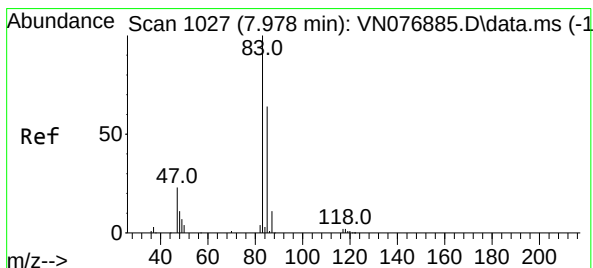
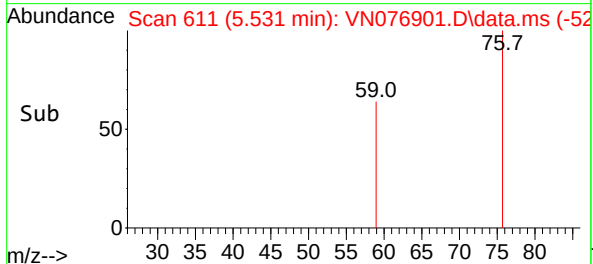
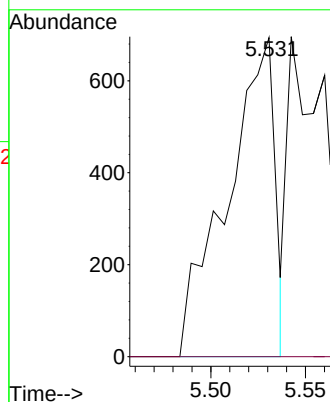
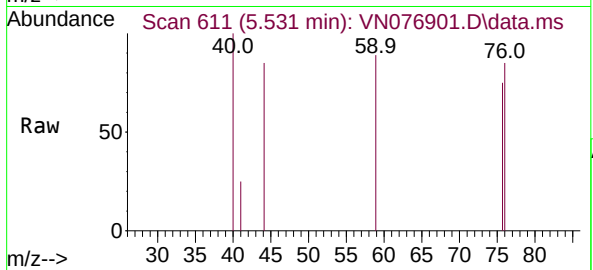




#23
tert-Butyl Alcohol
Concen: 1.818 ug/l
RT: 5.531 min Scan# 610
Delta R.T. -0.000 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

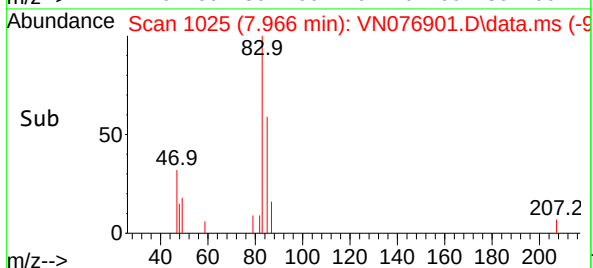
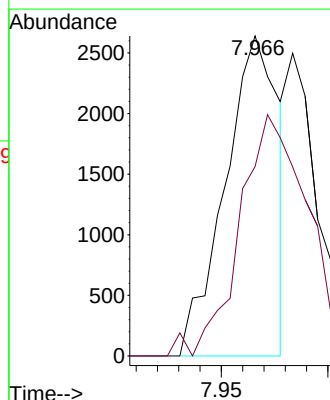
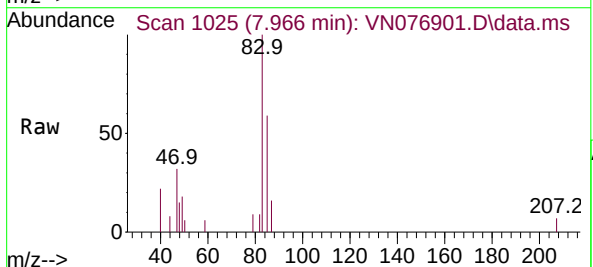
Instrument :
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ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

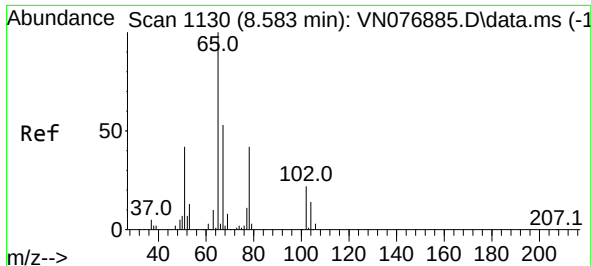
Tgt Ion: 59 Resp: 1215
Ion Ratio Lower Upper
59 100
52 0.0 0.2 0.2#



#25
Chloroform
Concen: 0.524 ug/l
RT: 7.966 min Scan# 1025
Delta R.T. -0.006 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

Tgt Ion: 83 Resp: 4607
Ion Ratio Lower Upper
83 100
85 52.0 51.8 77.6





#27

1,2-Dichloroethane-d4

Concen: 31.917 ug/l

RT: 8.583 min Scan# 1130

Delta R.T. 0.000 min

Lab File: VN076901.D

Acq: 09 Mar 2023 14:28

Instrument :

MSVOA_N

ClientSampleId :

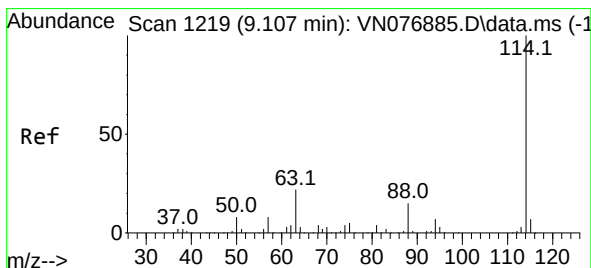
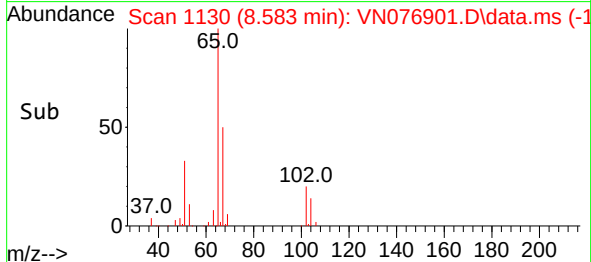
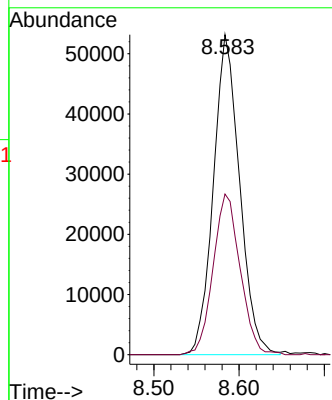
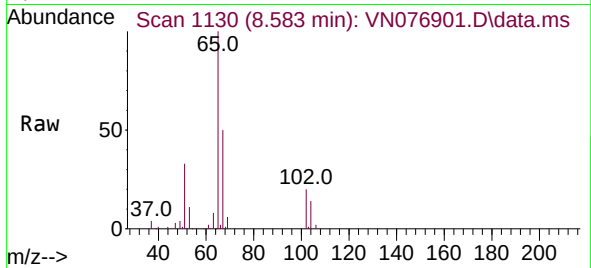
001-WILLETS-PT-BLVD(MAR)

Tgt Ion: 65 Resp: 113712

Ion Ratio Lower Upper

65 100

67 51.5 40.9 61.3



#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 9.107 min Scan# 1219

Delta R.T. 0.000 min

Lab File: VN076901.D

Acq: 09 Mar 2023 14:28

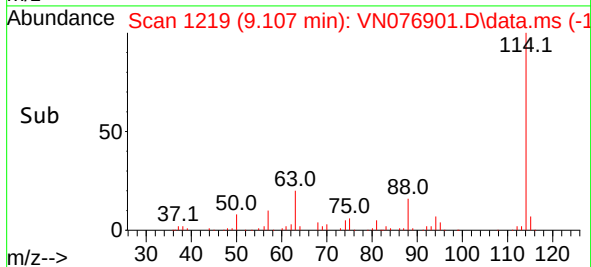
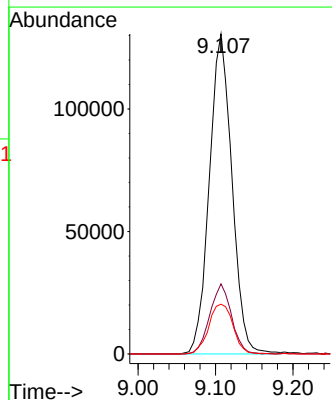
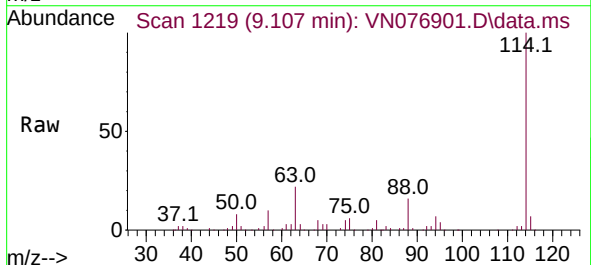
Tgt Ion: 114 Resp: 264565

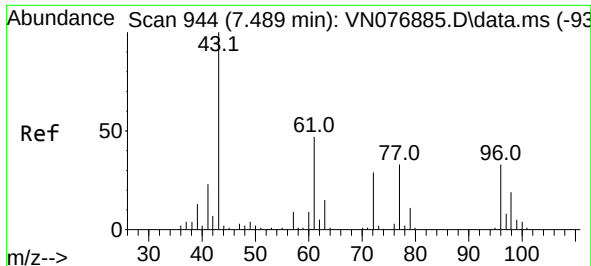
Ion Ratio Lower Upper

114 100

63 21.0 17.0 25.4

88 16.7 11.6 17.4

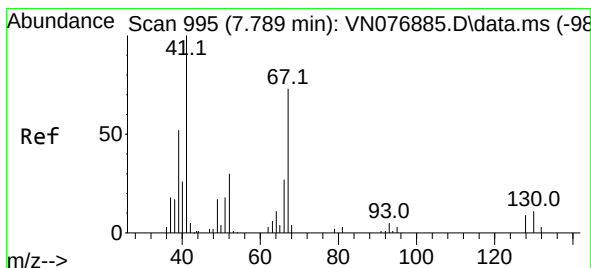
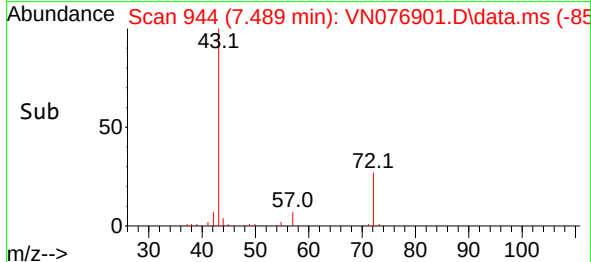
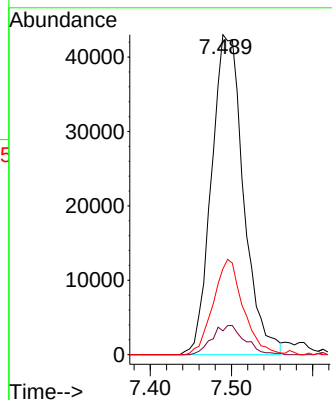
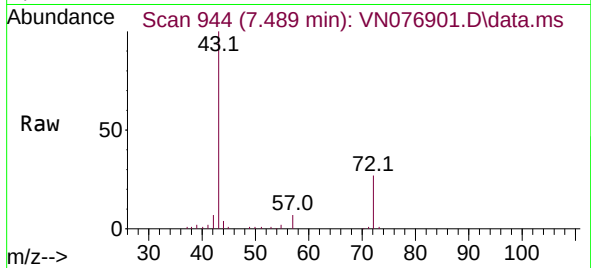




#30
2-Butanone
Concen: 41.544 ug/l
RT: 7.489 min Scan# 944
Delta R.T. 0.000 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

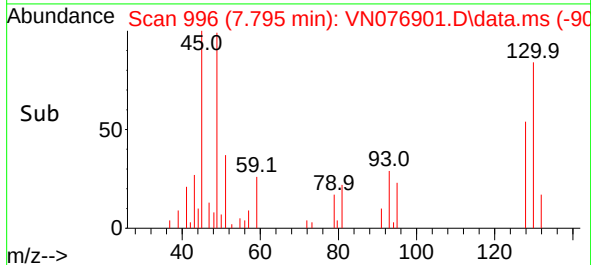
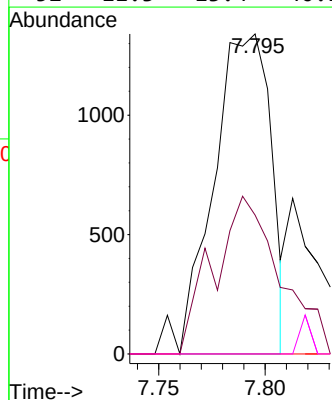
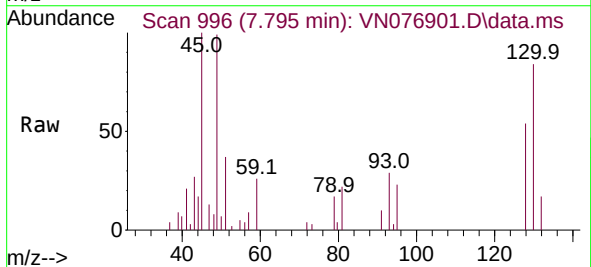
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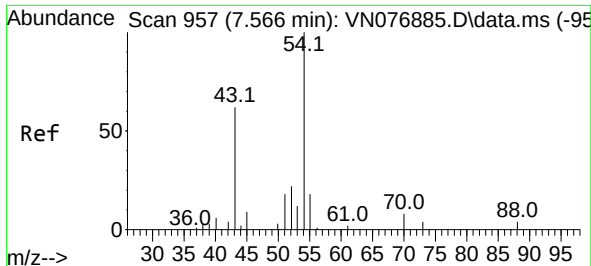
Tgt Ion: 43 Resp: 118111
Ion Ratio Lower Upper
43 100
57 5.5 6.1 9.1#
72 27.9 20.2 30.4



#35
Methacrylonitrile
Concen: 0.781 ug/l
RT: 7.795 min Scan# 996
Delta R.T. 0.011 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

Tgt Ion: 41 Resp: 2499
Ion Ratio Lower Upper
41 100
39 43.4 26.6 79.7
67 0.0 32.3 96.9#
52 11.3 13.4 40.1#

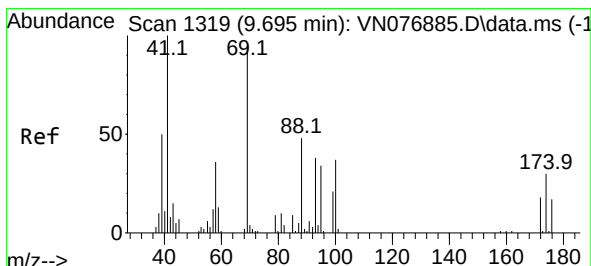
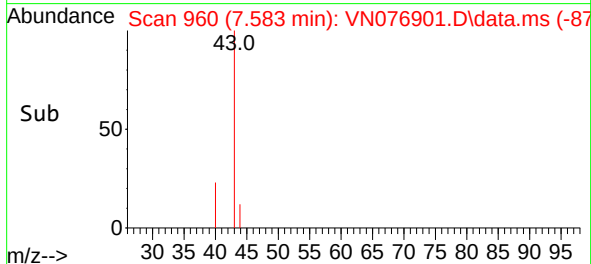
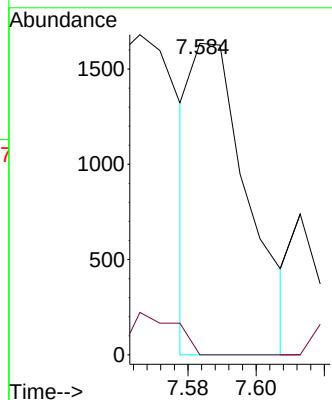
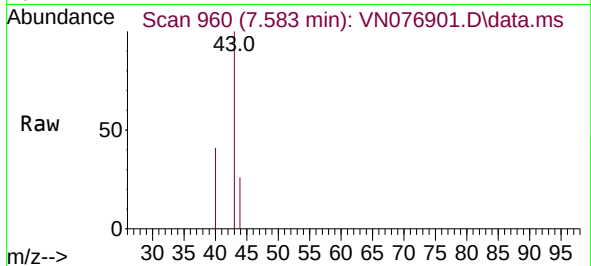




#43
Ethyl Acetate
Concen: 0.324 ug/l
RT: 7.583 min Scan# 901
Delta R.T. 0.011 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

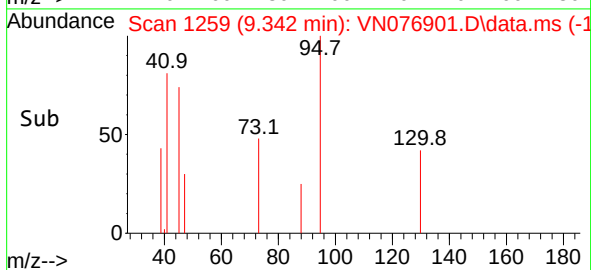
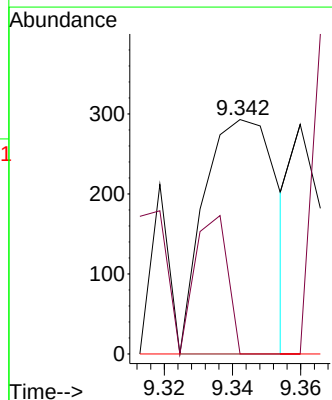
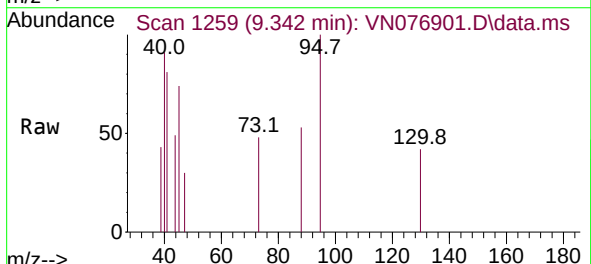
Instrument :
MSVOA_N
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001-WILLETS-PT-BLVD(MAR)

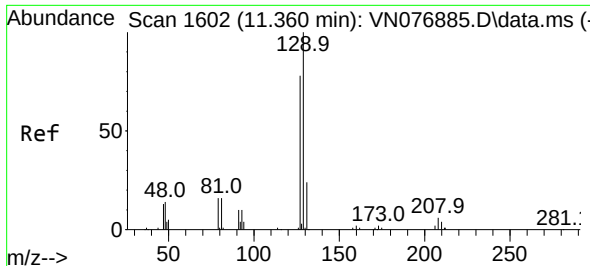
Tgt Ion: 43 Resp: 1861
Ion Ratio Lower Upper
43 100
45 10.5 11.2 16.8#



#45
1,4-Dioxane
Concen: 5.573 ug/l
RT: 9.342 min Scan# 1259
Delta R.T. -0.353 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

Tgt Ion: 88 Resp: 436
Ion Ratio Lower Upper
88 100
43 26.4 26.0 39.0
58 0.0 54.3 81.5#

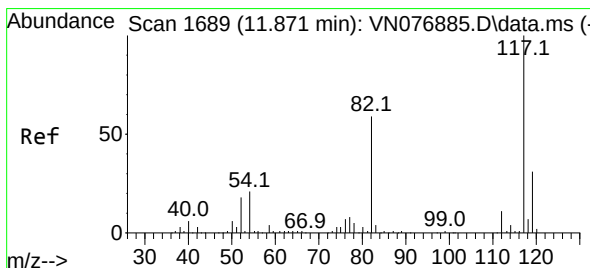
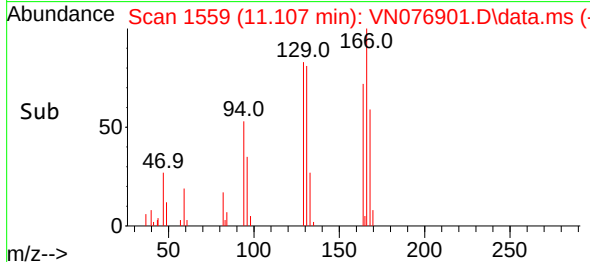
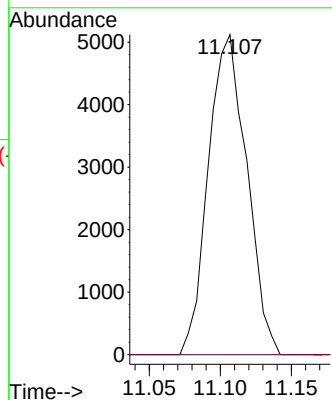
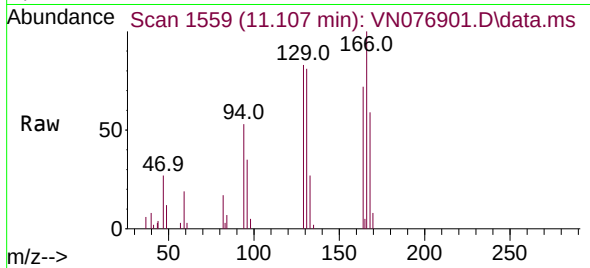




#53
Dibromochloromethane
Concen: 2.066 ug/l
RT: 11.107 min Scan# 11
Delta R.T. -0.253 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

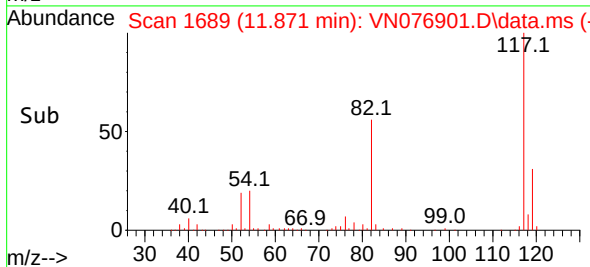
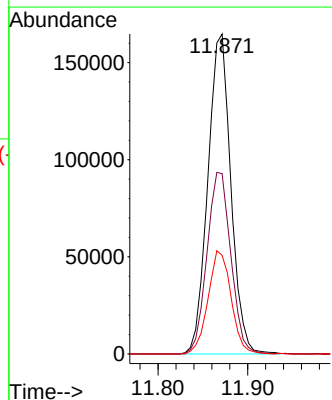
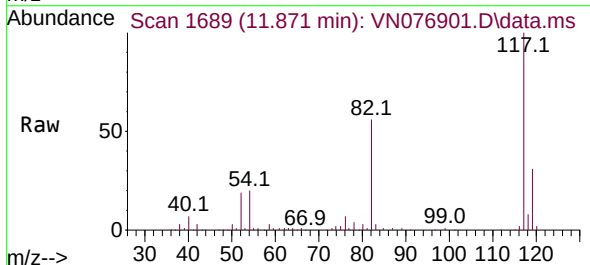
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

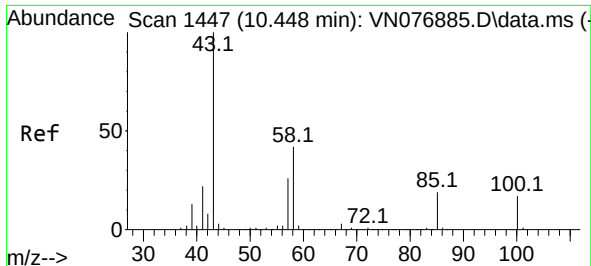
Tgt Ion:129 Resp: 9655
Ion Ratio Lower Upper
129 100
127 0.0 39.4 118.1#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1689
Delta R.T. 0.006 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

Tgt Ion:117 Resp: 293803
Ion Ratio Lower Upper
117 100
82 58.8 45.4 68.0
119 32.3 26.8 40.2

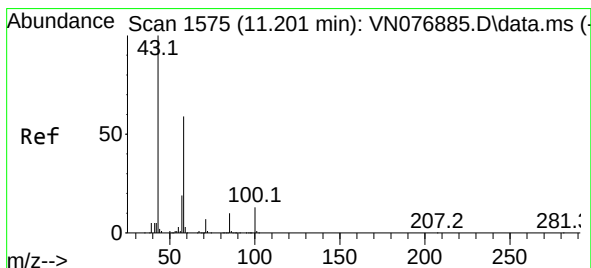
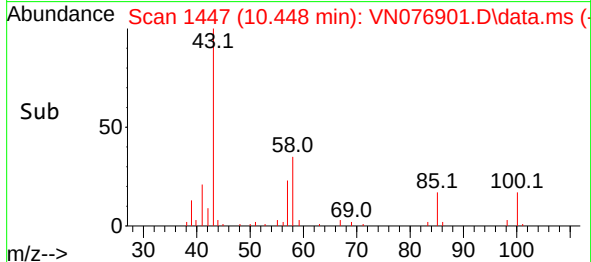
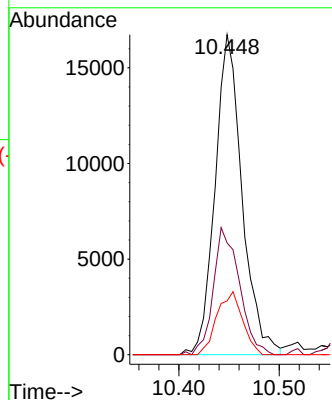
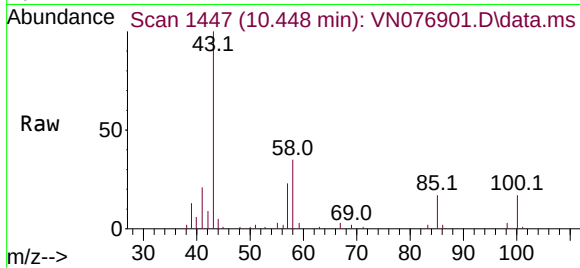




#58
4-Methyl-2-Pentanone
Concen: 5.282 ug/l
RT: 10.448 min Scan# 1447
Delta R.T. 0.000 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

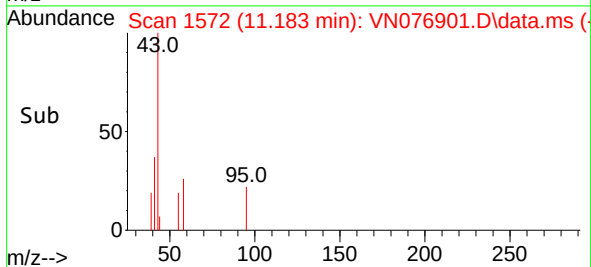
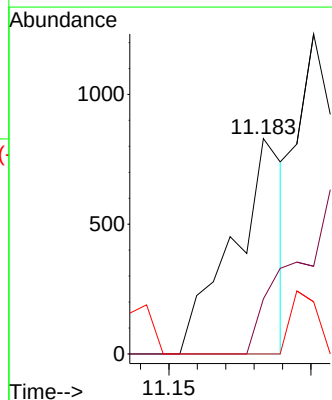
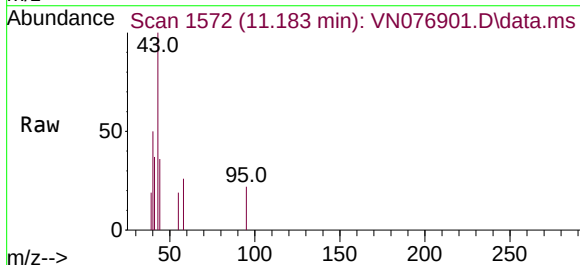
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

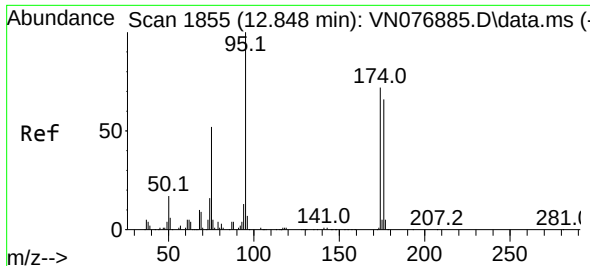
Tgt Ion:	43	Resp:	31350
Ion	Ratio	Lower	Upper
43	100		
58	38.2	28.6	42.8
85	18.7	11.8	17.8



#59
2-Hexanone
Concen: 0.244 ug/l
RT: 11.183 min Scan# 1572
Delta R.T. -0.012 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

Tgt Ion:	43	Resp:	1028
Ion	Ratio	Lower	Upper
43	100		
58	42.4	40.6	60.8
57	15.3	13.1	19.7

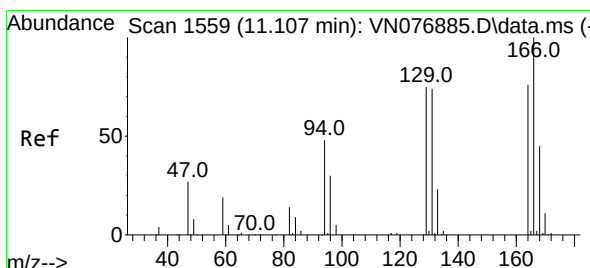
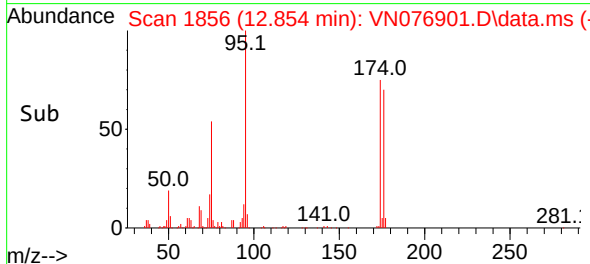
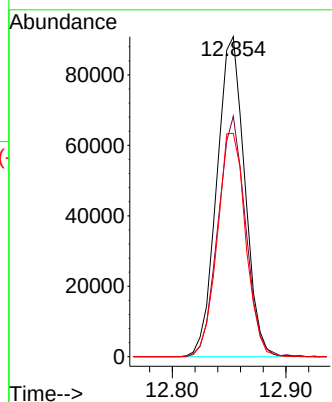
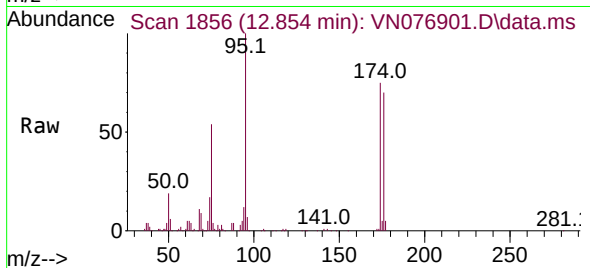




#60
4-Bromofluorobenzene
Concen: 27.843 ug/l
RT: 12.854 min Scan# 154827
Delta R.T. 0.006 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

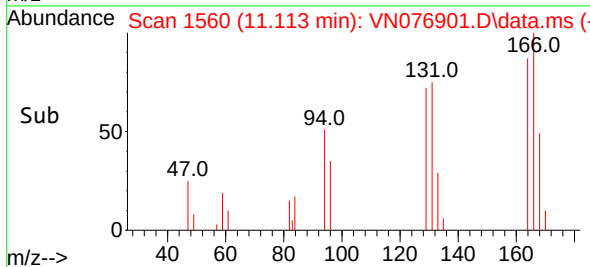
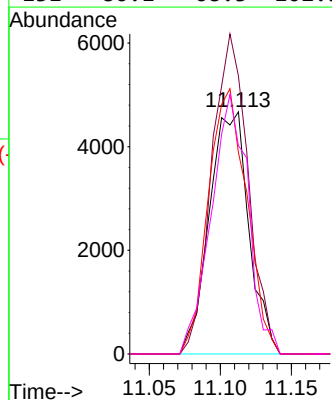
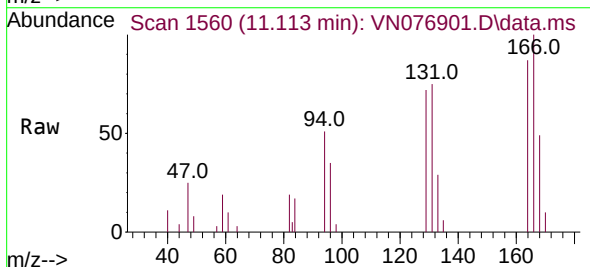
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

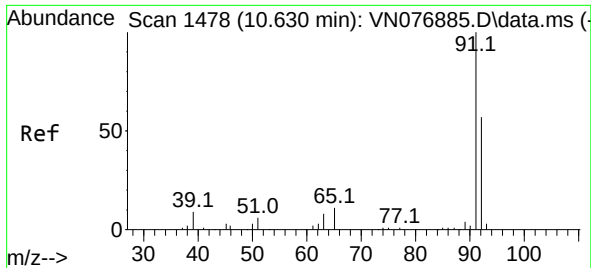
Tgt Ion: 95 Resp: 154827
Ion Ratio Lower Upper
95 100
174 74.0 64.2 96.4
176 71.1 61.4 92.0



#61
Tetrachloroethene
Concen: 1.951 ug/l
RT: 11.113 min Scan# 1560
Delta R.T. 0.006 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

Tgt Ion:164 Resp: 9048
Ion Ratio Lower Upper
164 100
166 114.8 96.2 144.2
129 83.2 78.2 117.4
131 86.1 68.3 102.5

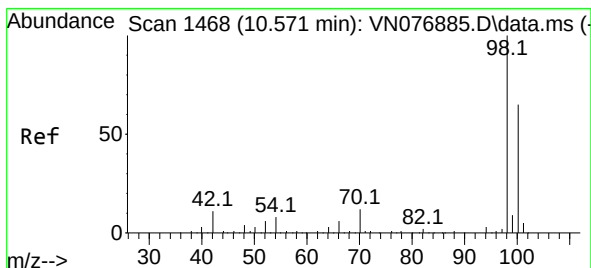
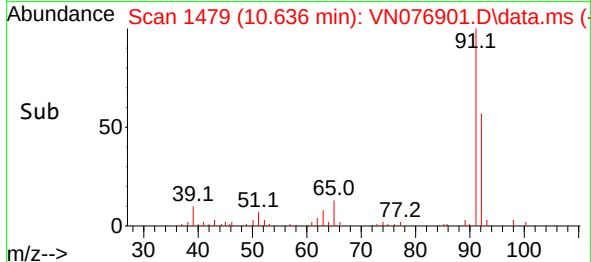
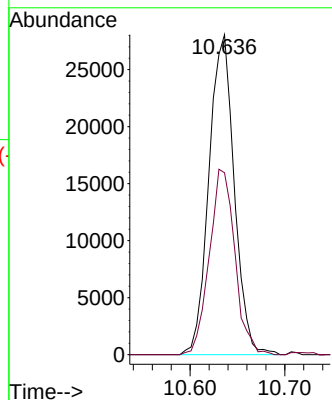
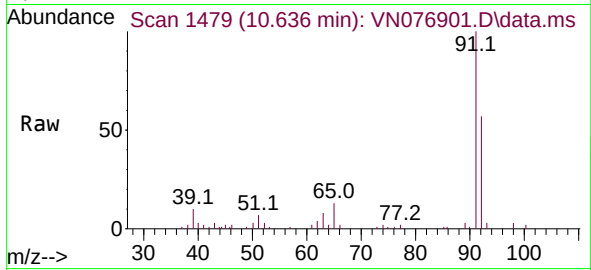




#62
Toluene
Concen: 2.575 ug/l
RT: 10.636 min Scan# 1478
Delta R.T. 0.006 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

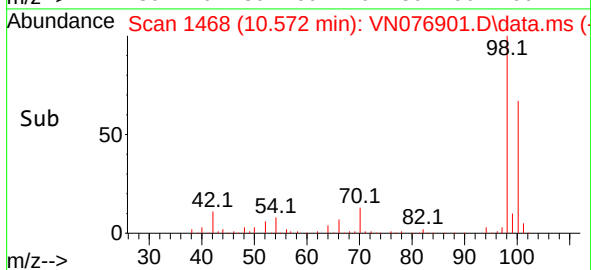
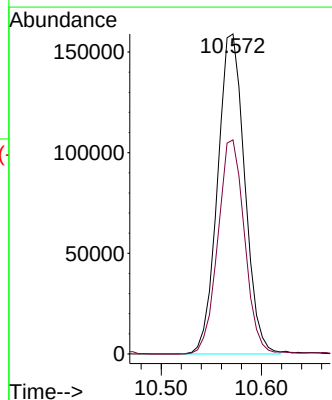
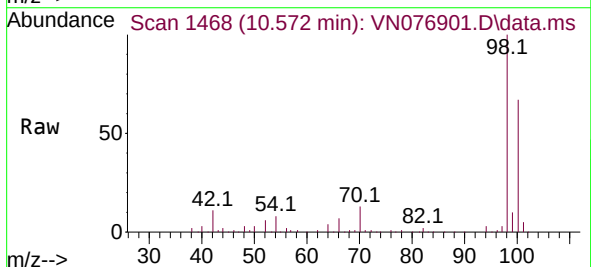
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

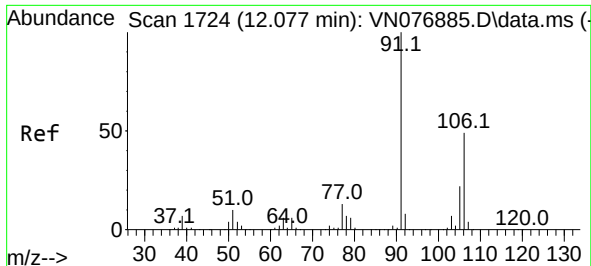
Tgt Ion: 91 Resp: 52132
Ion Ratio Lower Upper
91 100
92 58.2 46.3 69.5



#63
Toluene-d8
Concen: 28.869 ug/l
RT: 10.572 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

Tgt Ion: 98 Resp: 298322
Ion Ratio Lower Upper
98 100
100 66.0 53.8 80.6

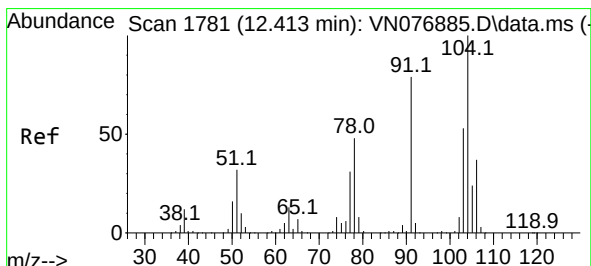
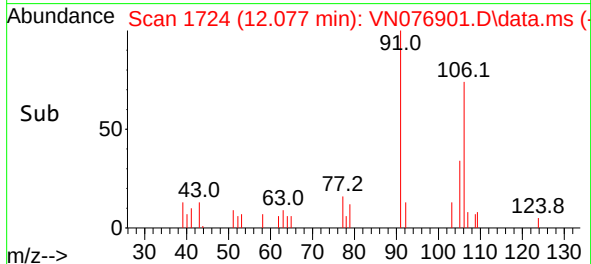
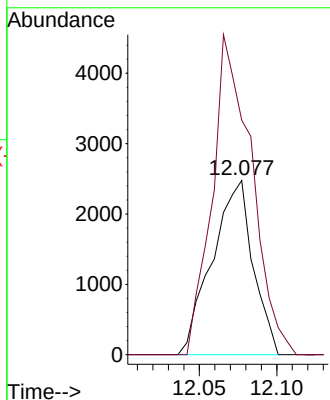
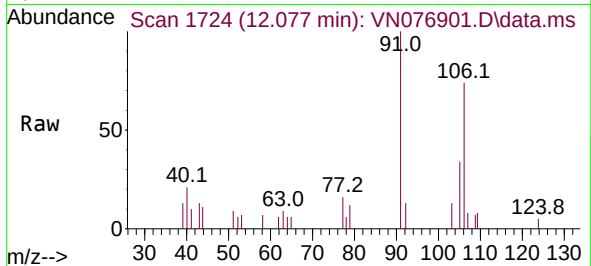




#67
m/p-Xylenes
Concen: 0.546 ug/l
RT: 12.077 min Scan# 1724
Delta R.T. 0.006 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

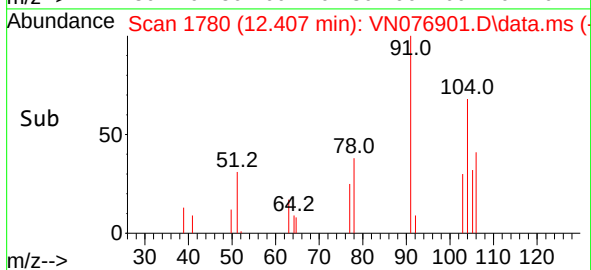
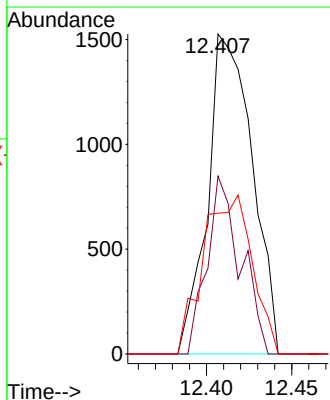
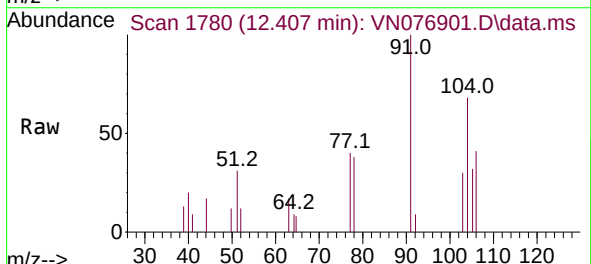
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

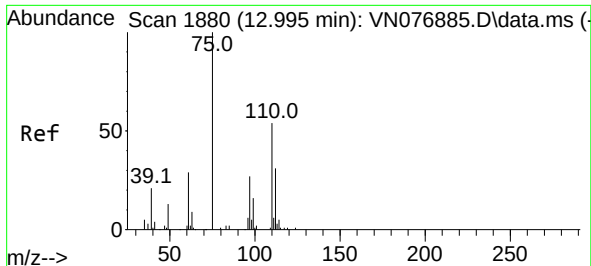
Tgt Ion:106 Resp: 4544
Ion Ratio Lower Upper
106 100
91 176.3 157.4 236.2



#69
Styrene
Concen: 0.211 ug/l
RT: 12.407 min Scan# 1780
Delta R.T. -0.006 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

Tgt Ion:104 Resp: 2778
Ion Ratio Lower Upper
104 100
78 42.0 39.6 59.4
103 0.0 43.9 65.9#

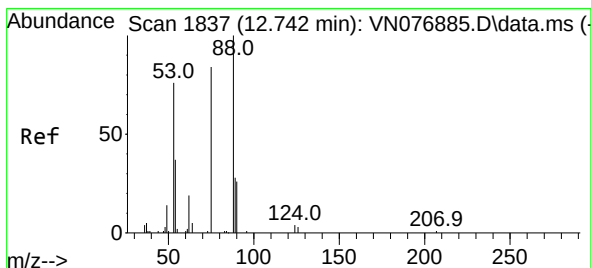
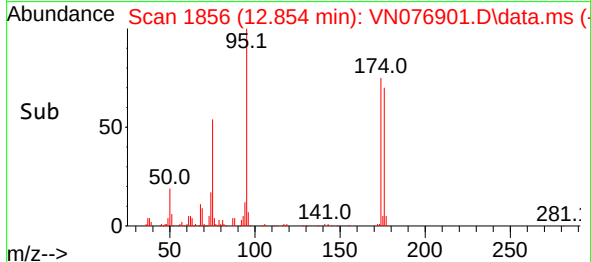
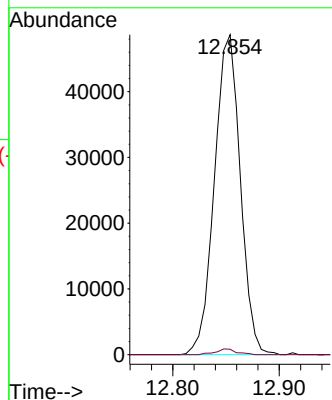
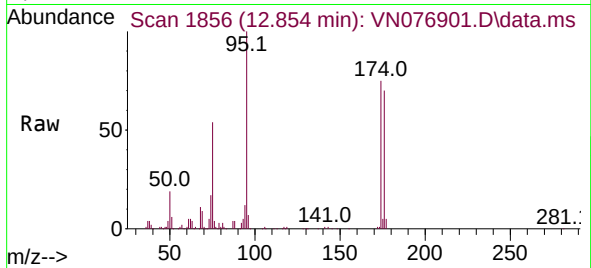




#72
1,2,3-Trichloropropane
Concen: 14.023 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. -0.141 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

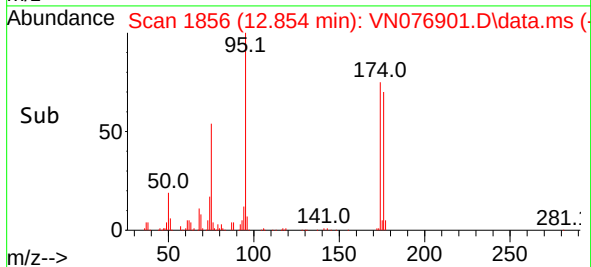
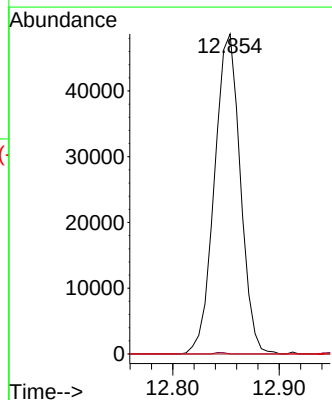
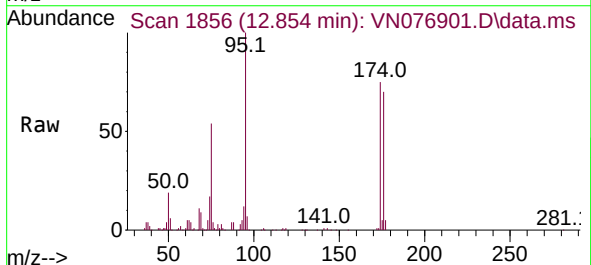
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(MAR)

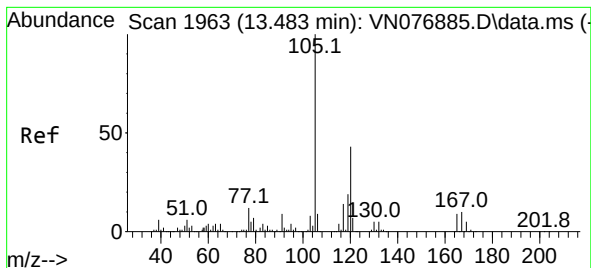
Tgt Ion: 75 Resp: 82030
Ion Ratio Lower Upper
75 100
77 1.4 0.0 332.6



#77
t-1,4-Dichloro-2-butene
Concen: 45.937 ug/l
RT: 12.854 min Scan# 1856
Delta R.T. 0.118 min
Lab File: VN076901.D
Acq: 09 Mar 2023 14:28

Tgt Ion: 75 Resp: 82030
Ion Ratio Lower Upper
75 100
53 0.0 50.4 151.3#
89 0.0 22.1 66.5#





#80

1,2,4-Trimethylbenzene

Concen: 0.541 ug/l

RT: 13.489 min Scan# 1963

Delta R.T. 0.006 min

Lab File: VN076901.D

Acq: 09 Mar 2023 14:28

Instrument :

MSVOA_N

ClientSampleId :

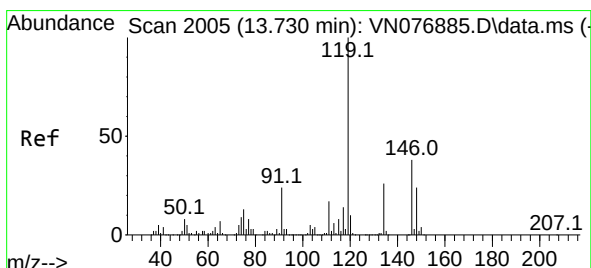
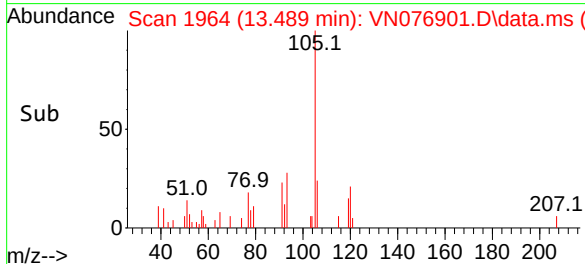
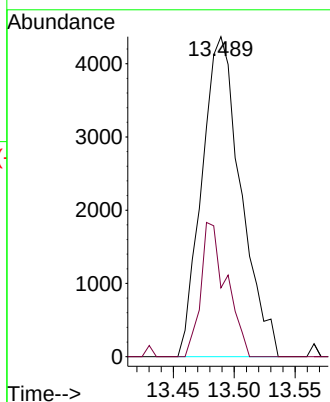
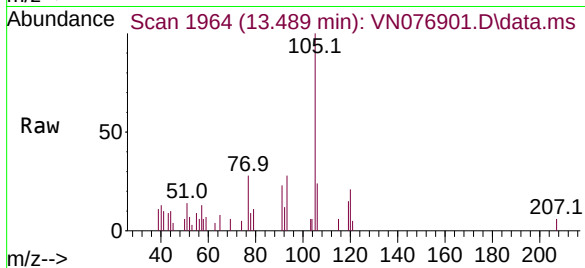
001-WILLETS-PT-BLVD(MAR)

Tgt Ion:105 Resp: 9735

Ion Ratio Lower Upper

105 100

120 27.5 0.0 93.2



#82

p-Isopropyltoluene

Concen: 0.532 ug/l

RT: 13.736 min Scan# 2006

Delta R.T. 0.006 min

Lab File: VN076901.D

Acq: 09 Mar 2023 14:28

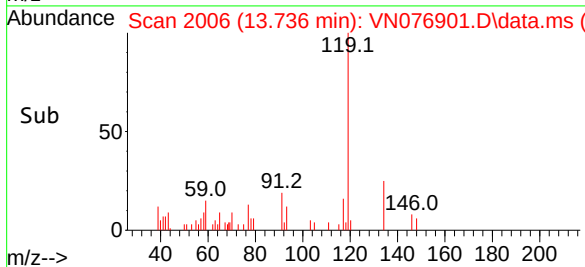
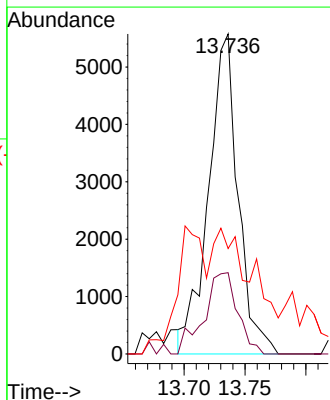
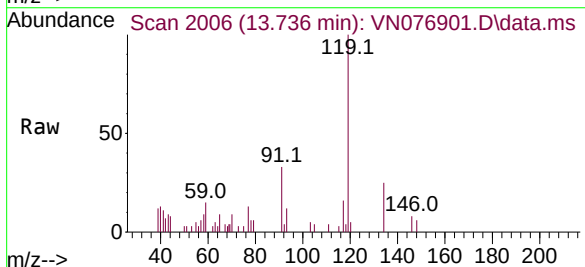
Tgt Ion:119 Resp: 9422

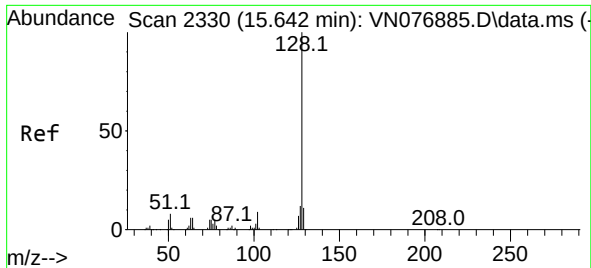
Ion Ratio Lower Upper

119 100

134 26.0 0.0 53.4

91 39.4 0.0 47.2





#91

Naphthalene

Concen: 1.676 ug/l

RT: 15.642 min Scan# 21

Delta R.T. -0.000 min

Lab File: VN076901.D

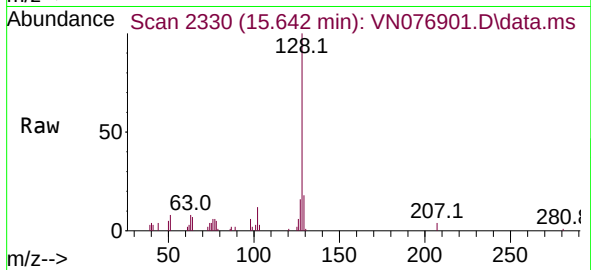
Acq: 09 Mar 2023 14:28

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(MAR)



Tgt Ion:128 Resp: 24967

Ion Ratio Lower Upper

128 100

127 14.5 11.0 16.6

129 12.4 8.9 13.3

