

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN080223\
 Data File : VN078739.D
 Acq On : 02 Aug 2023 20:03
 Operator : JC\MD
 Sample : 03884-03
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

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

Quant Time: Aug 03 05:34:06 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N080123W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 02 04:51:47 2023
 Response via : Initial Calibration

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

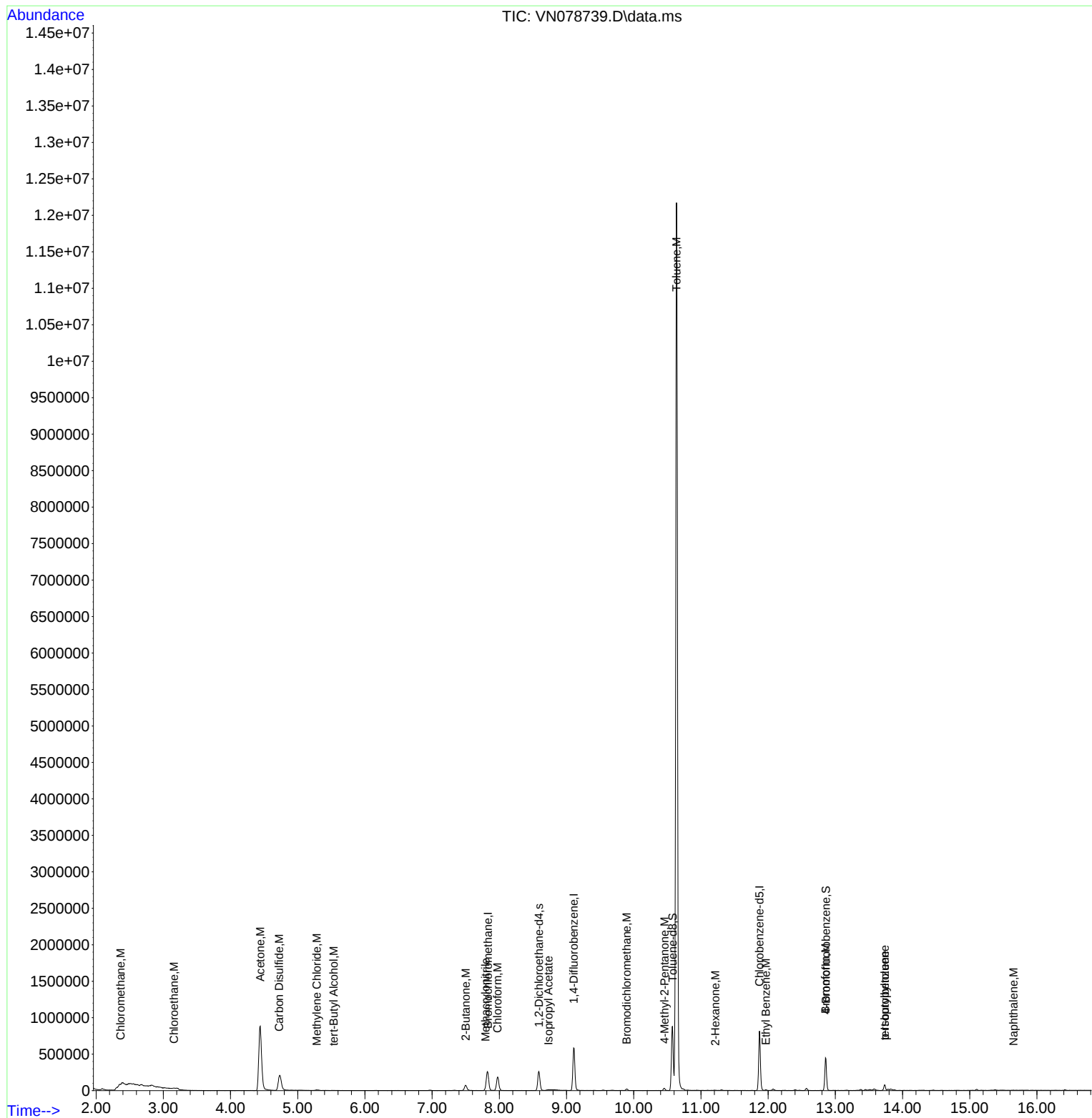
Internal Standards						
1) Bromochloromethane	7.830	128	97180	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.106	114	521424	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.871	117	477937	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.588	65	218078	29.937	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery =	99.800%		
60) 4-Bromofluorobenzene	12.859	95	156531	21.854	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery =	72.833%		
63) Toluene-d8	10.577	98	648435	27.465	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery =	91.533%		
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1561	0.207	ug/l	92
6) Chloroethane	3.159	64	9727	1.457	ug/l #	43
15) Acetone	4.442	58	532163	714.266	ug/l	91
16) Carbon Disulfide	4.724	76	5067	0.331	ug/l #	90
18) Methylene Chloride	5.283	84	1997	0.307	ug/l #	44
23) tert-Butyl Alcohol	5.536	59	298	0.284	ug/l #	100
25) Chloroform	7.971	83	182800	15.666	ug/l	90
30) 2-Butanone	7.500	43	110197	36.333	ug/l	99
35) Methacrylonitrile	7.794	41	1503	0.451	ug/l #	39
41) Bromodichloromethane	9.894	83	14702	1.720	ug/l #	84
44) Isopropyl Acetate	8.730	43	9625	0.875	ug/l #	46
56) Bromoform	12.853	173	915	0.204	ug/l #	1
58) 4-Methyl-2-Pentanone	10.459	43	20789	2.906	ug/l #	91
59) 2-Hexanone	11.212	43	1867	0.345	ug/l	89
62) Toluene	10.635	91	9379852	326.274	ug/l	99
66) Ethyl Benzene	11.965	91	7188	0.248	ug/l	89
79) tert-butylbenzene	13.735	119	41805	1.953	ug/l	60
82) p-Isopropyltoluene	13.735	119	41805	1.856	ug/l	97
91) Naphthalene	15.653	128	2058	0.210	ug/l #	69

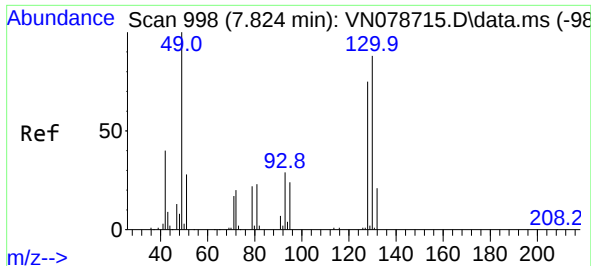
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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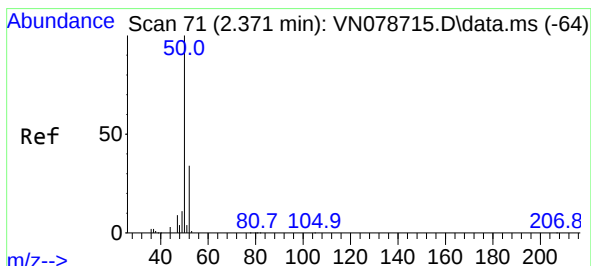
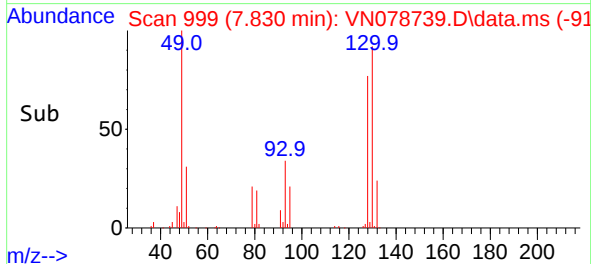
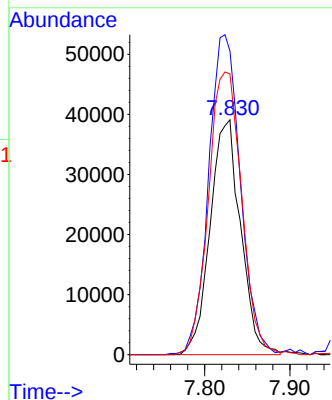
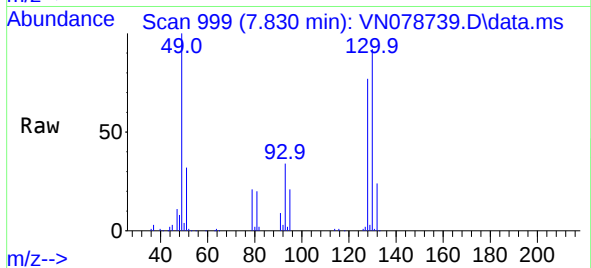




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.830 min Scan# 91
Delta R.T. 0.006 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

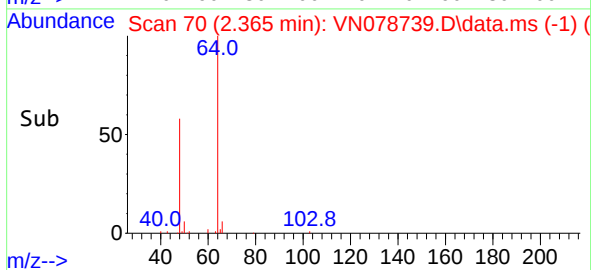
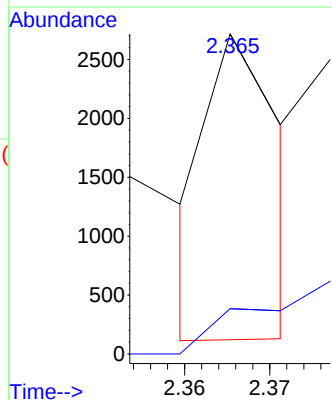
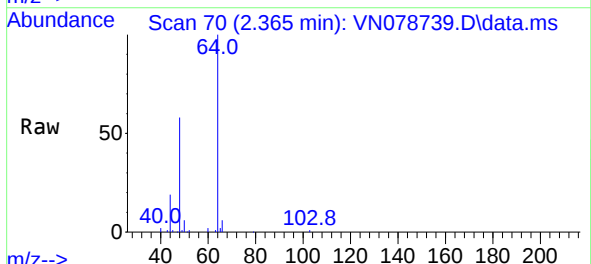
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MSVOA_N
ClientSampleId :
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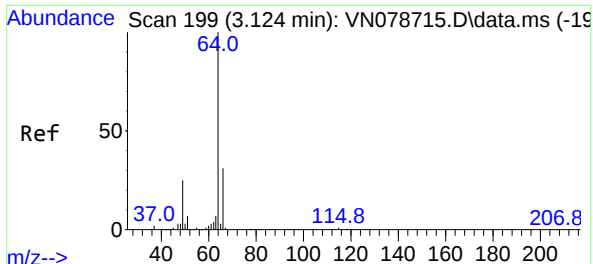
Tgt Ion:128 Resp: 97180
Ion Ratio Lower Upper
128 100
49 141.8 0.0 370.8
130 131.6 0.0 307.0



#3
Chloromethane
Concen: 0.207 ug/l
RT: 2.365 min Scan# 70
Delta R.T. -0.006 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

Tgt Ion: 50 Resp: 1561
Ion Ratio Lower Upper
50 100
52 26.6 24.6 36.8

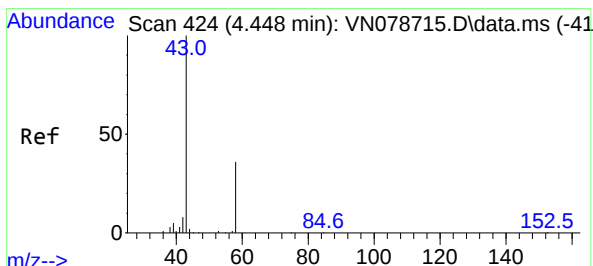
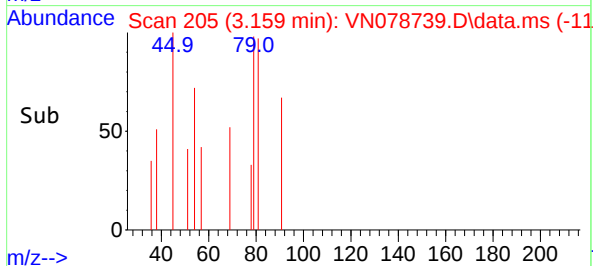
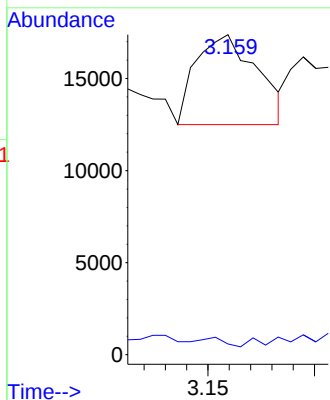
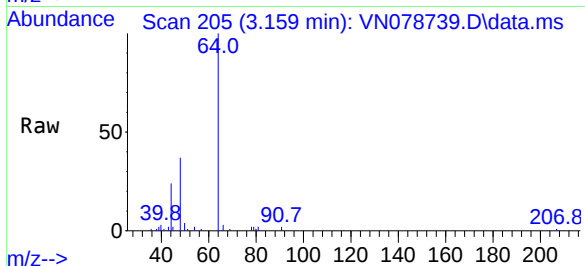




#6
Chloroethane
Concen: 1.457 ug/l
RT: 3.159 min Scan# 205
Delta R.T. 0.035 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

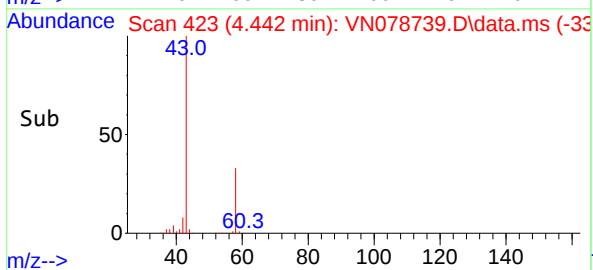
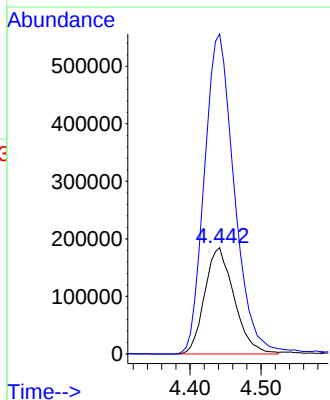
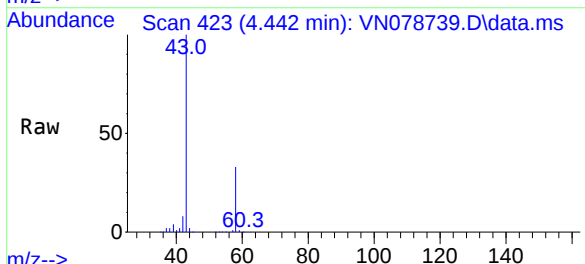
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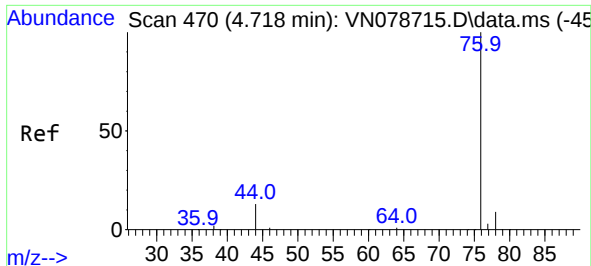
Tgt Ion: 64 Resp: 9727
Ion Ratio Lower Upper
64 100
66 0.0 25.7 38.5#



#15
Acetone
Concen: 714.266 ug/l
RT: 4.442 min Scan# 423
Delta R.T. -0.006 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

Tgt Ion: 58 Resp: 532163
Ion Ratio Lower Upper
58 100
43 300.9 227.5 341.3

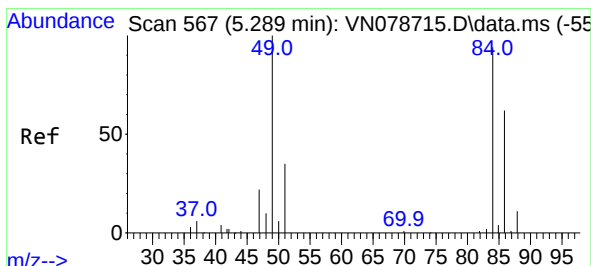
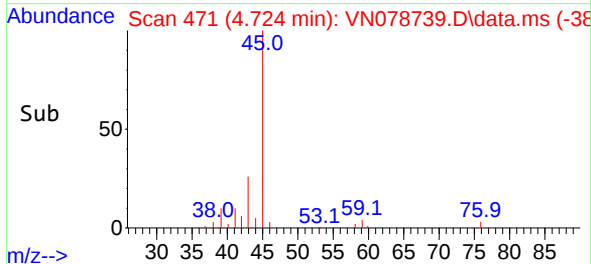
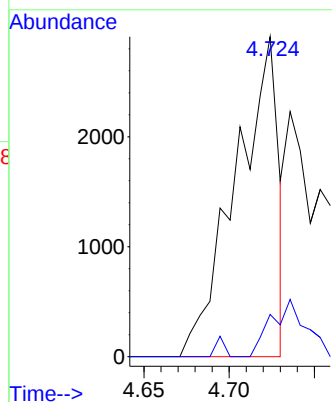
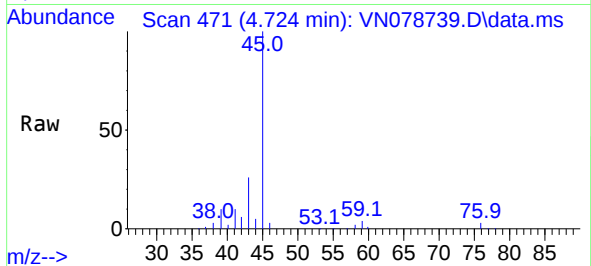




#16
Carbon Disulfide
Concen: 0.331 ug/l
RT: 4.724 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

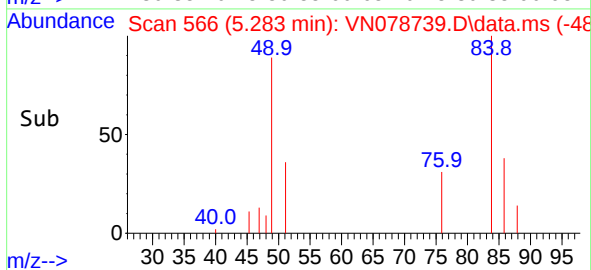
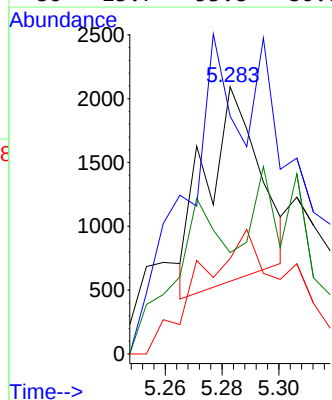
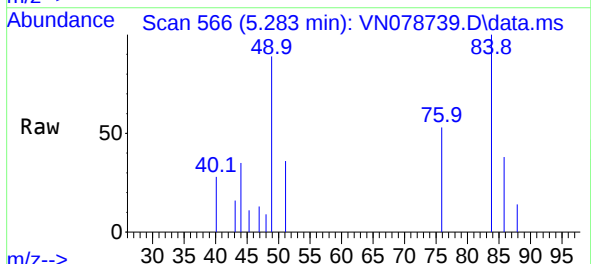
Instrument :
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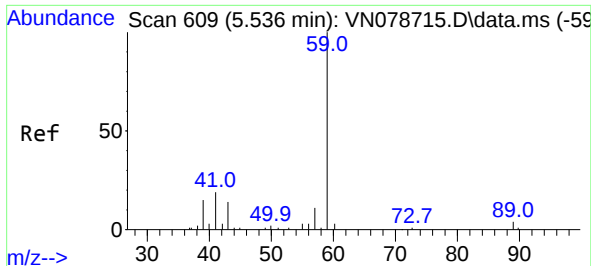
Tgt Ion: 76 Resp: 5067
Ion Ratio Lower Upper
76 100
78 13.2 7.7 11.5#



#18
Methylene Chloride
Concen: 0.307 ug/l
RT: 5.283 min Scan# 566
Delta R.T. -0.006 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

Tgt Ion: 84 Resp: 1997
Ion Ratio Lower Upper
84 100
49 44.8 88.1 132.1#
51 37.3 24.0 36.0#
86 13.7 53.8 80.8#

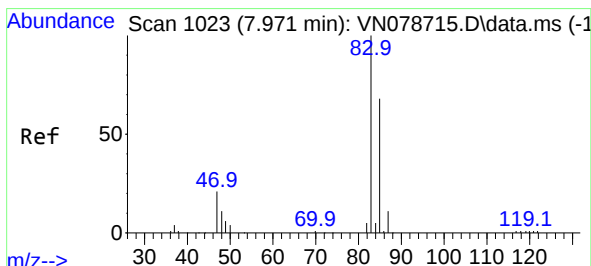
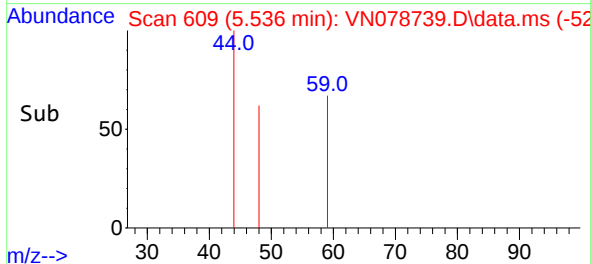
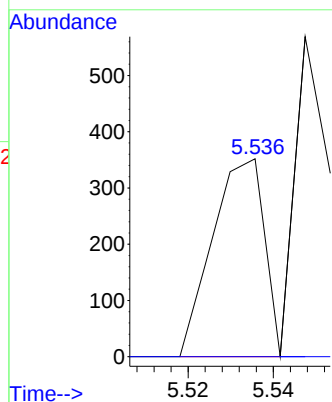
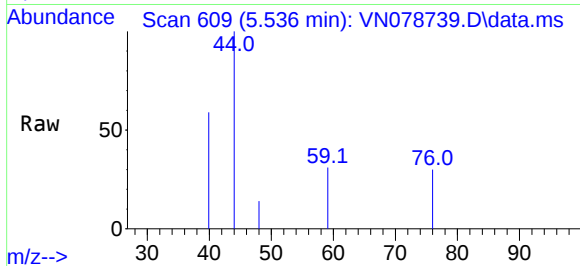




#23
tert-Butyl Alcohol
Concen: 0.284 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.000 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

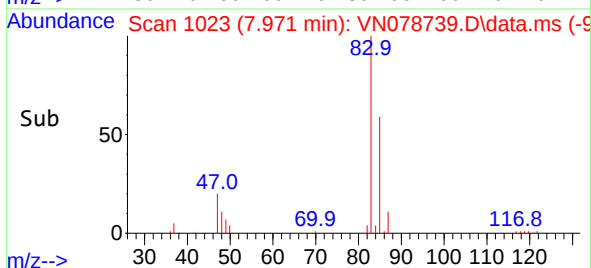
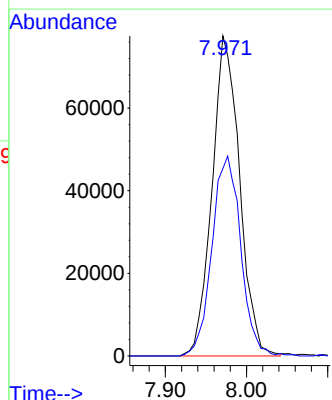
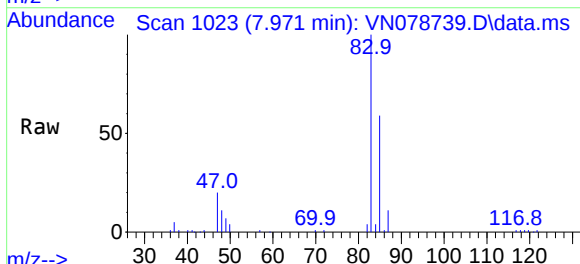
Instrument :
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ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

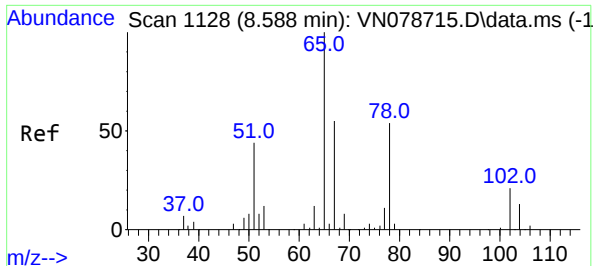
Tgt Ion: 59 Resp: 298
Ion Ratio Lower Upper
59 100
52 0.0 0.1 0.1#



#25
Chloroform
Concen: 15.666 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.000 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

Tgt Ion: 83 Resp: 182800
Ion Ratio Lower Upper
83 100
85 58.6 53.4 80.0

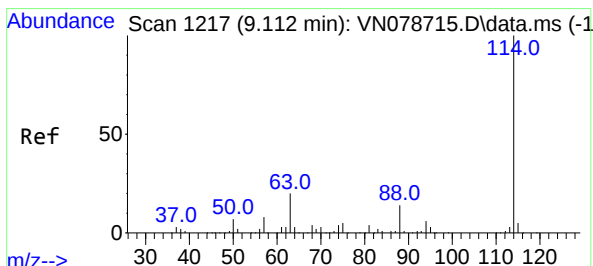
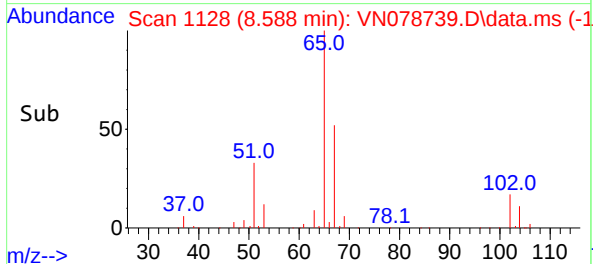
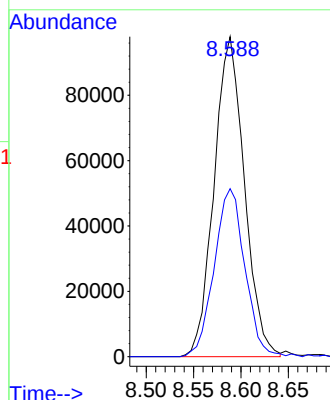
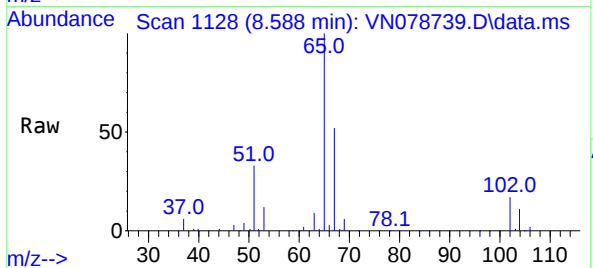




#27
1,2-Dichloroethane-d4
Concen: 29.937 ug/l
RT: 8.588 min Scan# 1128
Delta R.T. 0.000 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

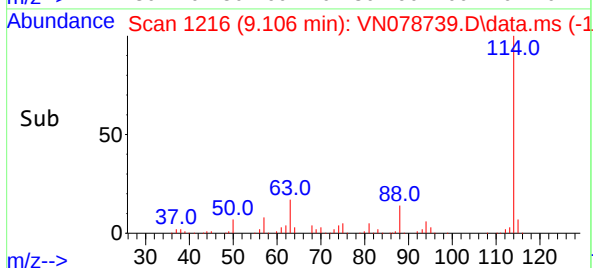
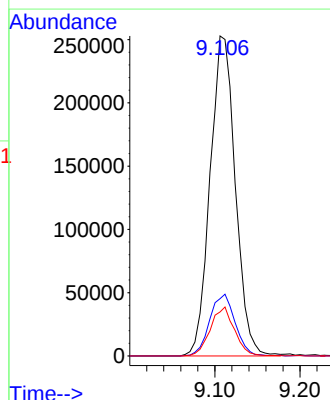
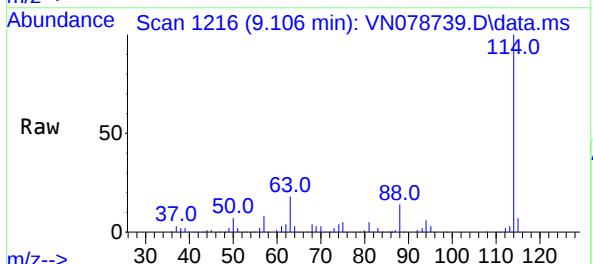
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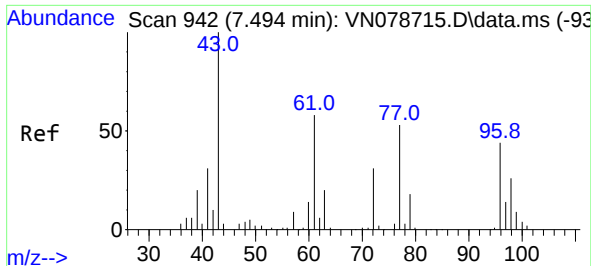
Tgt Ion: 65 Resp: 218078
Ion Ratio Lower Upper
65 100
67 52.9 42.9 64.3



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.106 min Scan# 1216
Delta R.T. -0.006 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

Tgt Ion: 114 Resp: 521424
Ion Ratio Lower Upper
114 100
63 19.5 15.2 22.8
88 14.6 12.5 18.7

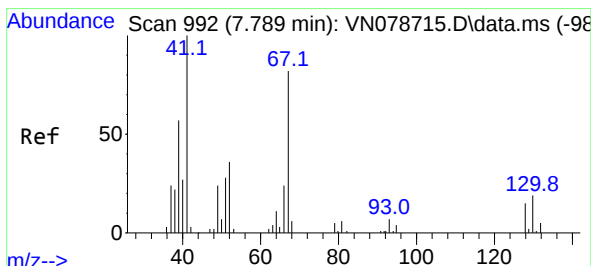
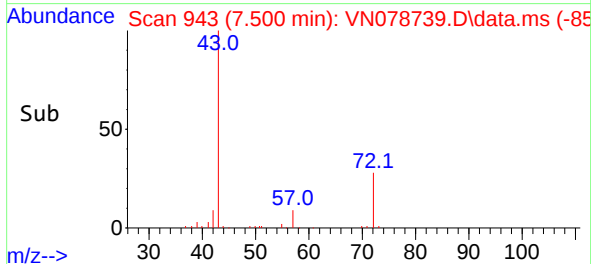
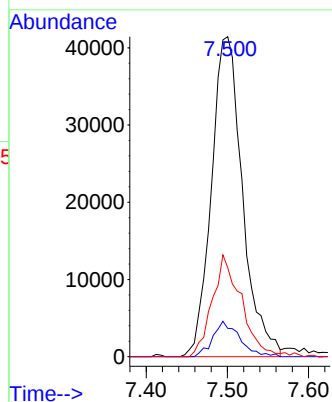
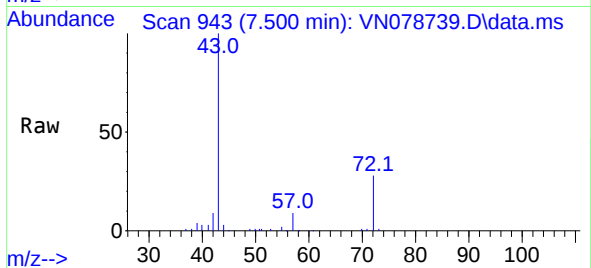




#30
2-Butanone
Concen: 36.333 ug/l
RT: 7.500 min Scan# 942
Delta R.T. 0.006 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

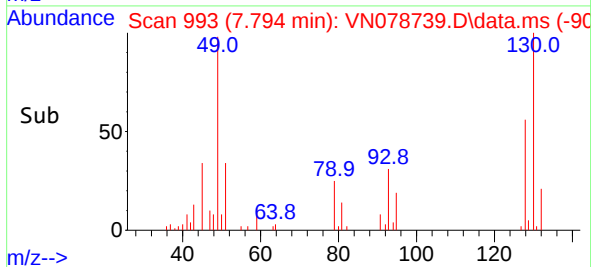
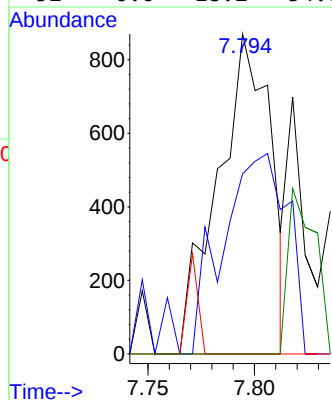
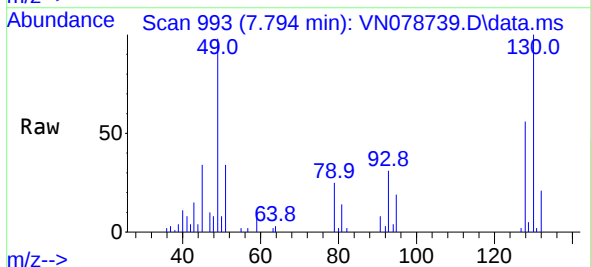
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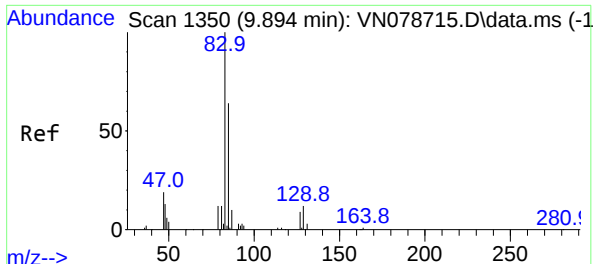
Tgt Ion: 43 Resp: 110197
Ion Ratio Lower Upper
43 100
57 9.6 6.8 10.2
72 29.6 23.8 35.6



#35
Methacrylonitrile
Concen: 0.451 ug/l
RT: 7.794 min Scan# 993
Delta R.T. 0.006 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

Tgt Ion: 41 Resp: 1503
Ion Ratio Lower Upper
41 100
39 56.3 33.9 101.6
67 0.0 45.9 137.6#
52 0.0 18.2 54.6#

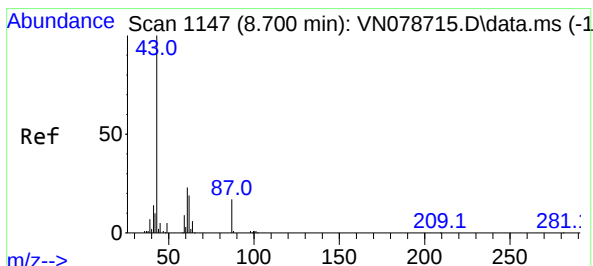
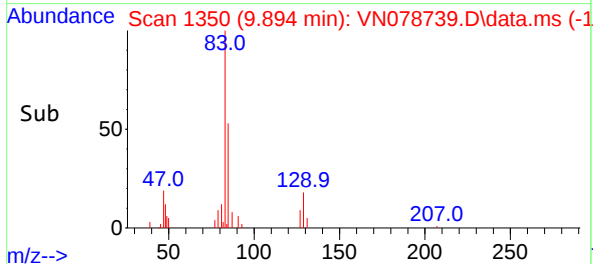
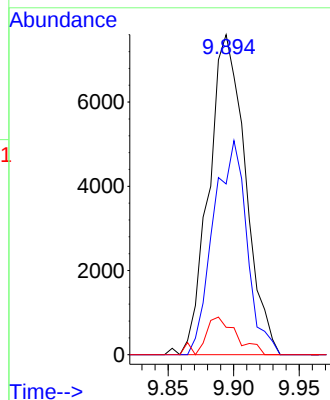
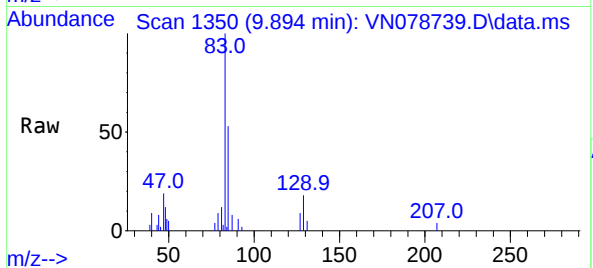




#41
Bromodichloromethane
Concen: 1.720 ug/l
RT: 9.894 min Scan# 1152
Delta R.T. 0.000 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

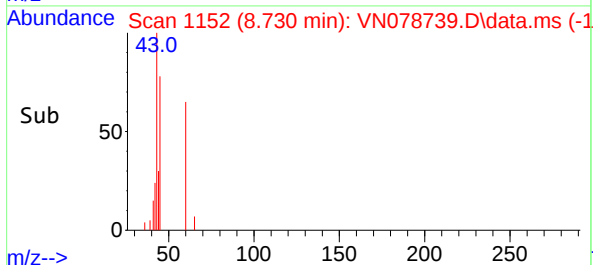
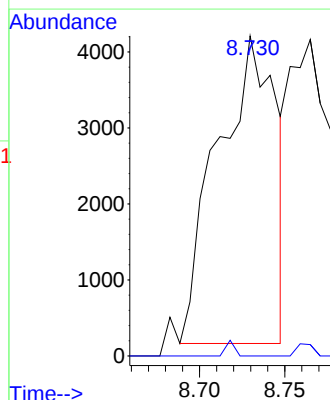
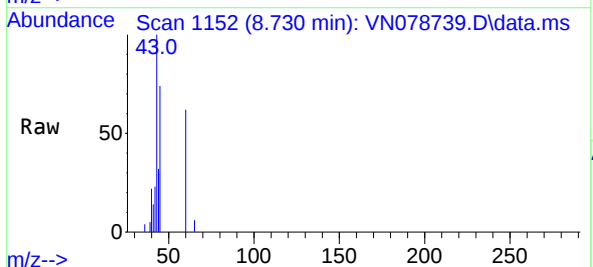
Instrument :
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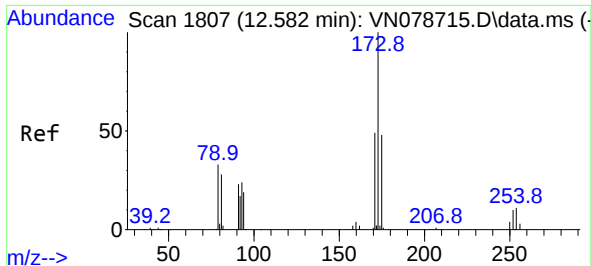
Tgt Ion: 83 Resp: 14702
Ion Ratio Lower Upper
83 100
85 53.4 54.1 81.1#
127 8.6 7.8 11.6



#44
Isopropyl Acetate
Concen: 0.875 ug/l
RT: 8.730 min Scan# 1152
Delta R.T. 0.029 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

Tgt Ion: 43 Resp: 9625
Ion Ratio Lower Upper
43 100
61 0.0 23.0 34.6#

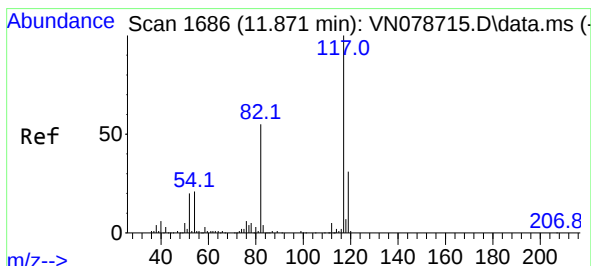
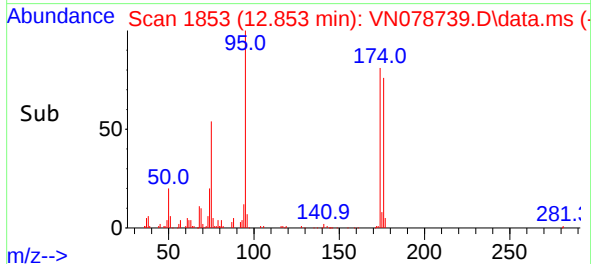
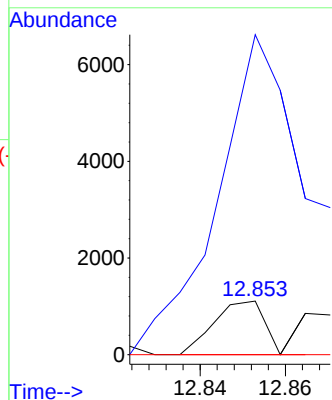
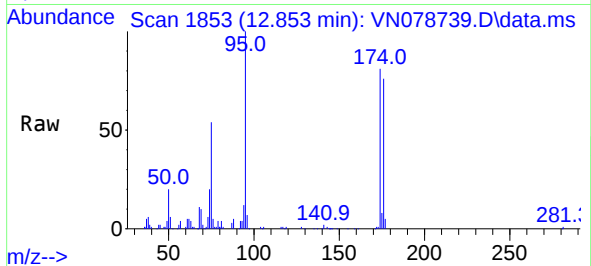




#56
Bromoform
Concen: 0.204 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

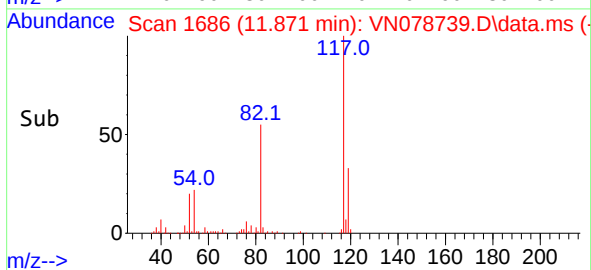
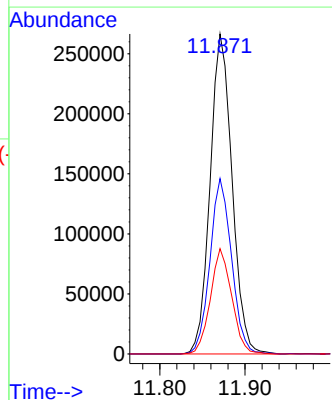
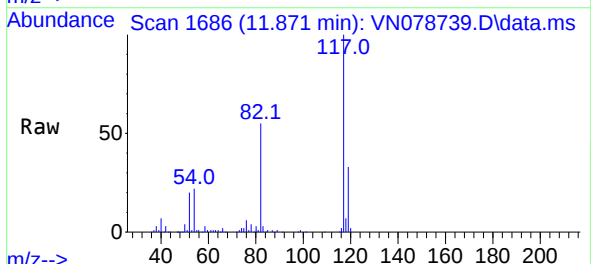
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

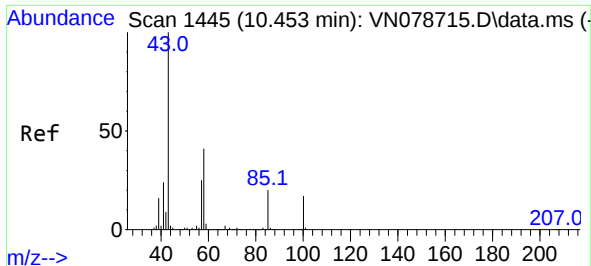
Tgt Ion:173 Resp: 915
Ion Ratio Lower Upper
173 100
175 1097.6 40.7 61.1#
254 0.0 6.5 9.7#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.871 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

Tgt Ion:117 Resp: 477937
Ion Ratio Lower Upper
117 100
82 53.9 43.9 65.9
119 31.9 26.2 39.4

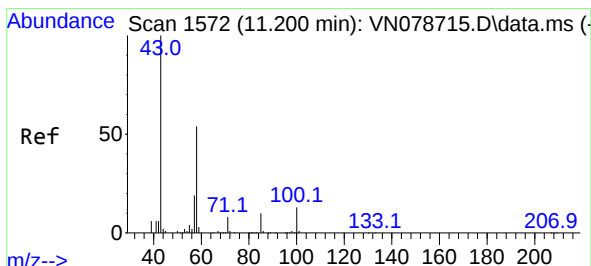
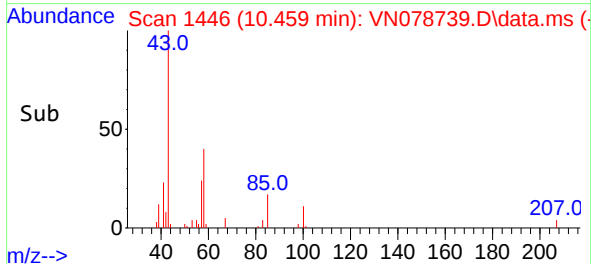
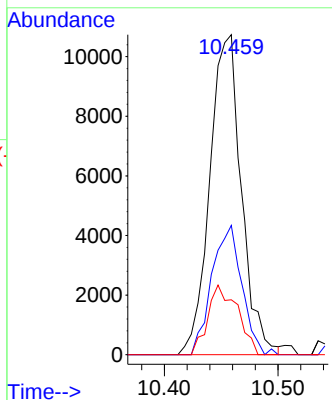
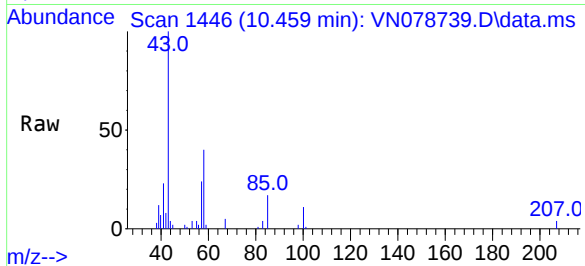




#58
4-Methyl-2-Pentanone
Concen: 2.906 ug/l
RT: 10.459 min Scan# 1446
Delta R.T. 0.006 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

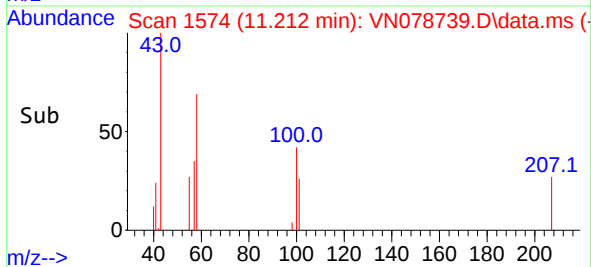
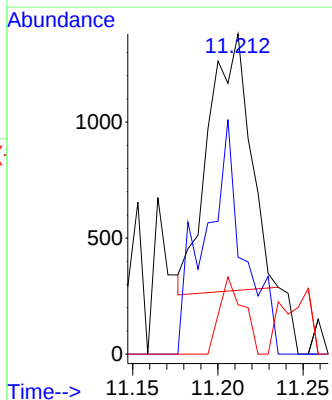
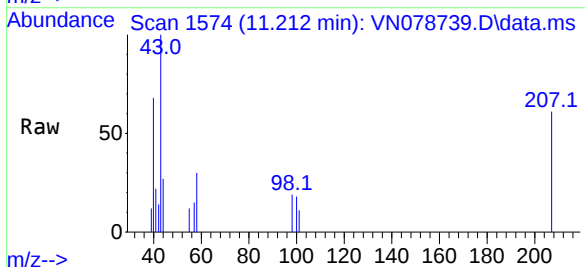
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

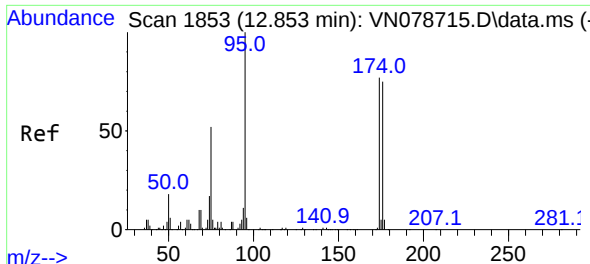
Tgt Ion: 43 Resp: 20789
Ion Ratio Lower Upper
43 100
58 38.0 32.6 48.8
85 12.3 16.2 24.2#



#59
2-Hexanone
Concen: 0.345 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.012 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

Tgt Ion: 43 Resp: 1867
Ion Ratio Lower Upper
43 100
58 67.1 45.9 68.9
57 17.2 15.8 23.6

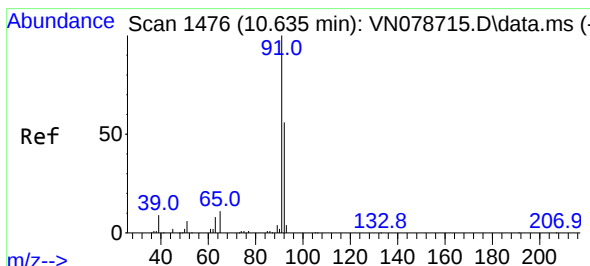
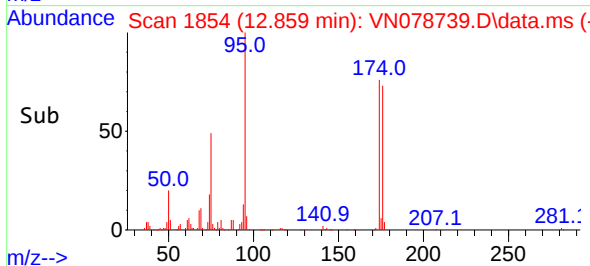
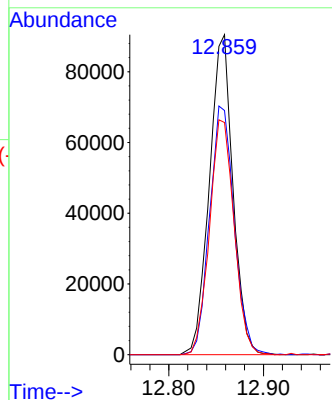
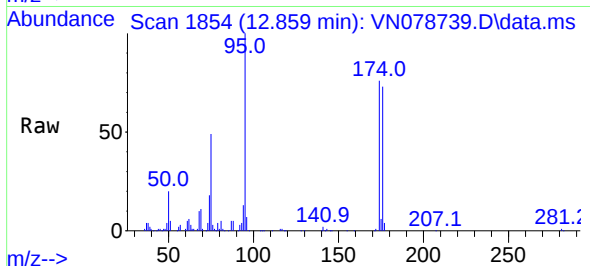




#60
4-Bromofluorobenzene
Concen: 21.854 ug/l
RT: 12.859 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

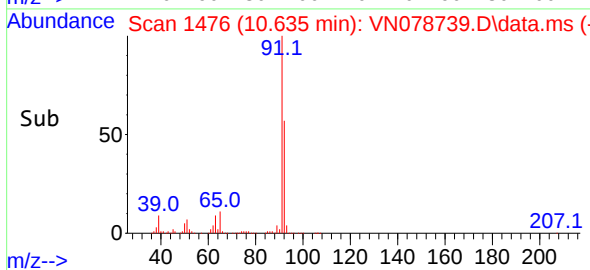
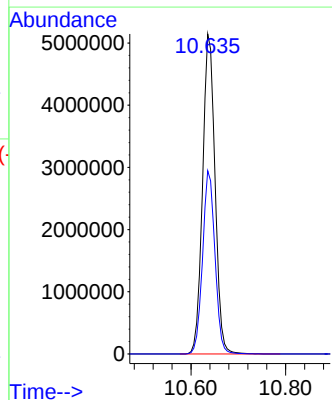
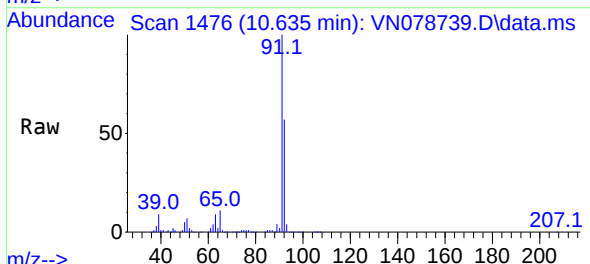
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

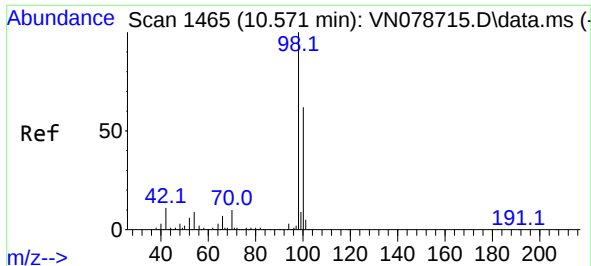
Tgt Ion: 95 Resp: 156531
Ion Ratio Lower Upper
95 100
174 80.8 61.7 92.5
176 76.5 58.1 87.1



#62
Toluene
Concen: 326.274 ug/l
RT: 10.635 min Scan# 1476
Delta R.T. 0.000 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

Tgt Ion: 91 Resp: 9379852
Ion Ratio Lower Upper
91 100
92 56.9 45.2 67.8

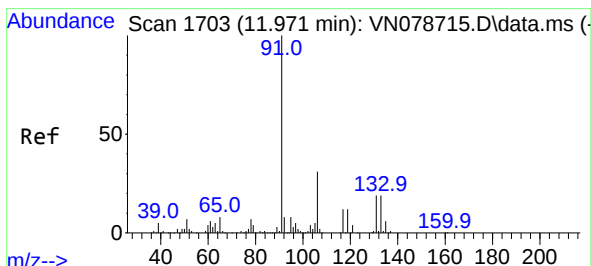
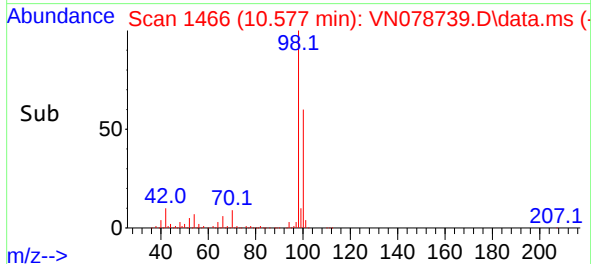
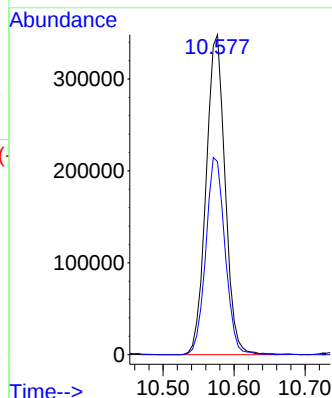
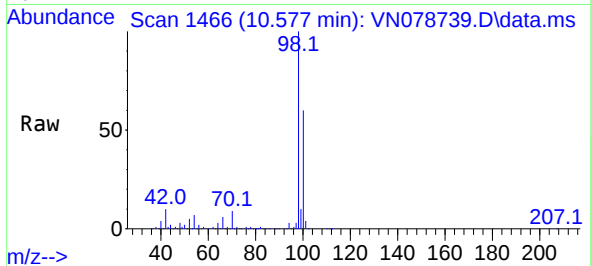




#63
Toluene-d8
Concen: 27.465 ug/l
RT: 10.577 min Scan# 1466
Delta R.T. 0.006 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

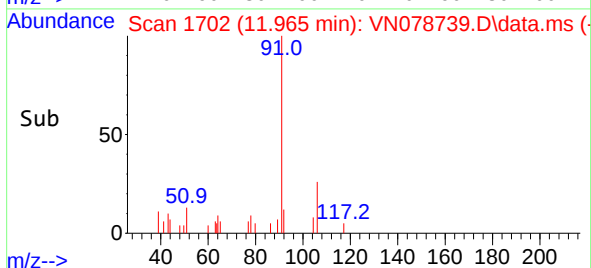
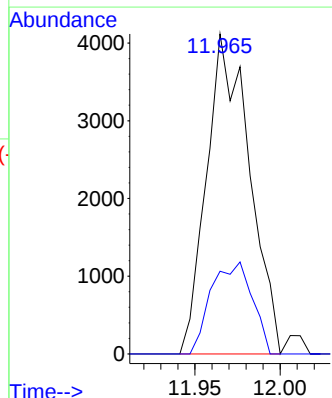
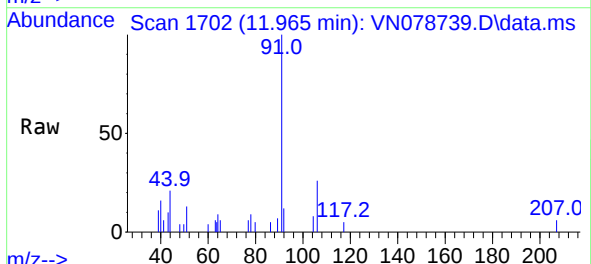
Instrument :
MSVOA_N
ClientSampleId :
001-WILLETS-PT-BLVD(JULY)

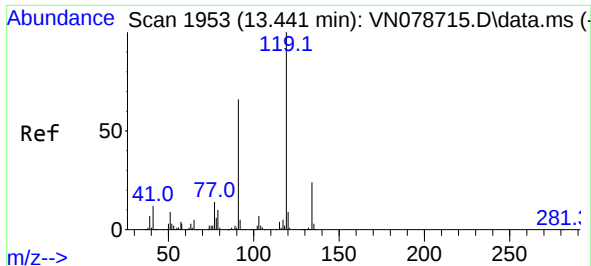
Tgt Ion: 98 Resp: 648435
Ion Ratio Lower Upper
98 100
100 62.4 49.7 74.5



#66
Ethyl Benzene
Concen: 0.248 ug/l
RT: 11.965 min Scan# 1702
Delta R.T. -0.006 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

Tgt Ion: 91 Resp: 7188
Ion Ratio Lower Upper
91 100
106 25.8 25.6 38.4





#79

tert-butylbenzene

Concen: 1.953 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.294 min

Lab File: VN078739.D

Acq: 02 Aug 2023 20:03

Instrument :

MSVOA_N

ClientSampleId :

001-WILLETS-PT-BLVD(JULY)

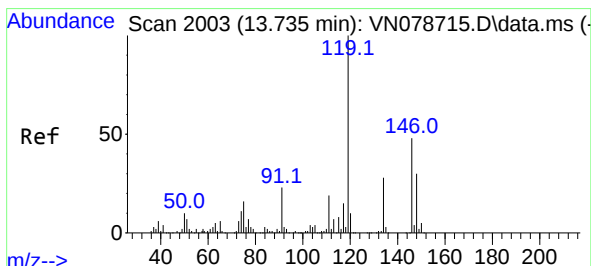
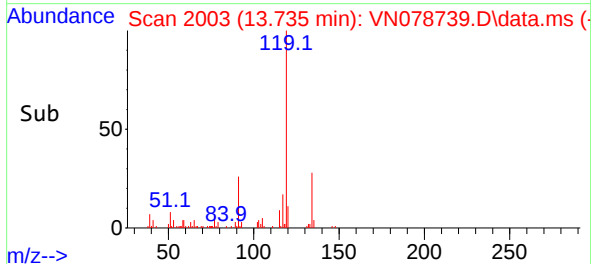
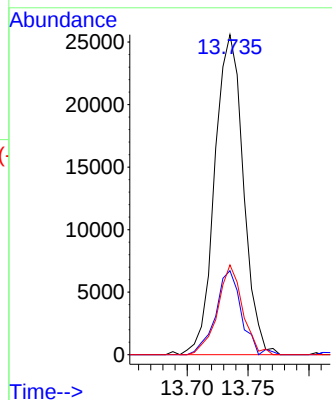
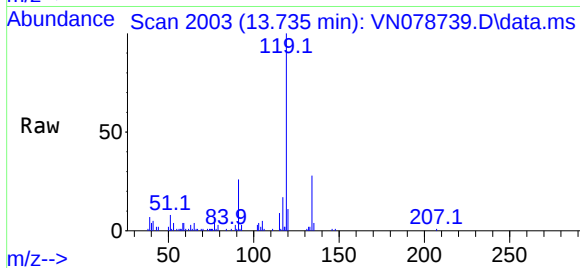
Tgt Ion:119 Resp: 41805

Ion Ratio Lower Upper

119 100

91 23.2 0.0 126.6

134 24.5 0.0 44.0



#82

p-Isopropyltoluene

Concen: 1.856 ug/l

RT: 13.735 min Scan# 2003

Delta R.T. 0.000 min

Lab File: VN078739.D

Acq: 02 Aug 2023 20:03

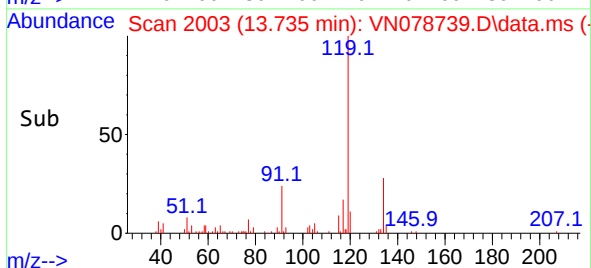
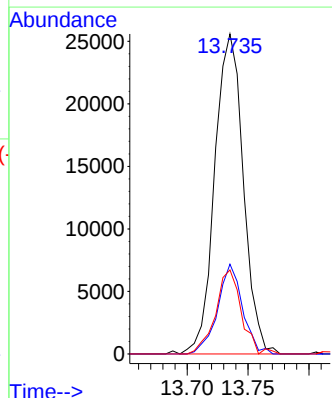
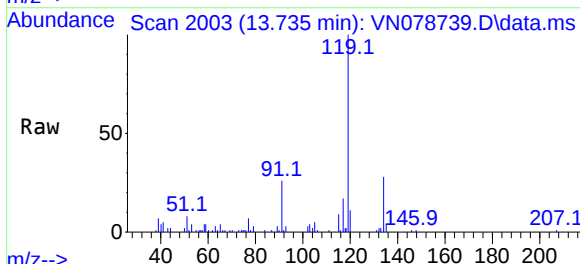
Tgt Ion:119 Resp: 41805

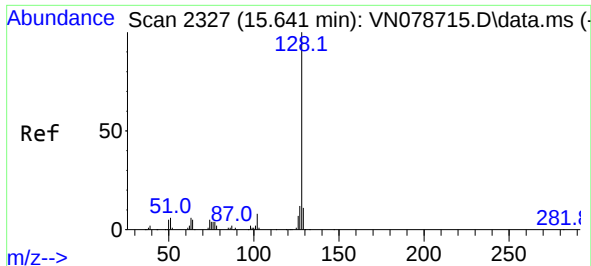
Ion Ratio Lower Upper

119 100

134 24.5 0.0 52.4

91 23.2 0.0 48.2





#91
Naphthalene
Concen: 0.210 ug/l
RT: 15.653 min Scan# 21
Delta R.T. 0.012 min
Lab File: VN078739.D
Acq: 02 Aug 2023 20:03

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

Tgt Ion:128 Resp: 2058
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 0.0 9.0 13.4#

