

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052323\
 Data File : VN077843.D
 Acq On : 24 May 2023 06:13
 Operator : JC\MD
 Sample : 02894-05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 44 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 TP-50A

Quant Time: May 24 06:35:11 2023
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051523W.M
 Quant Title : SW846 8260
 QLast Update : Tue May 16 04:07:42 2023
 Response via : Initial Calibration

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

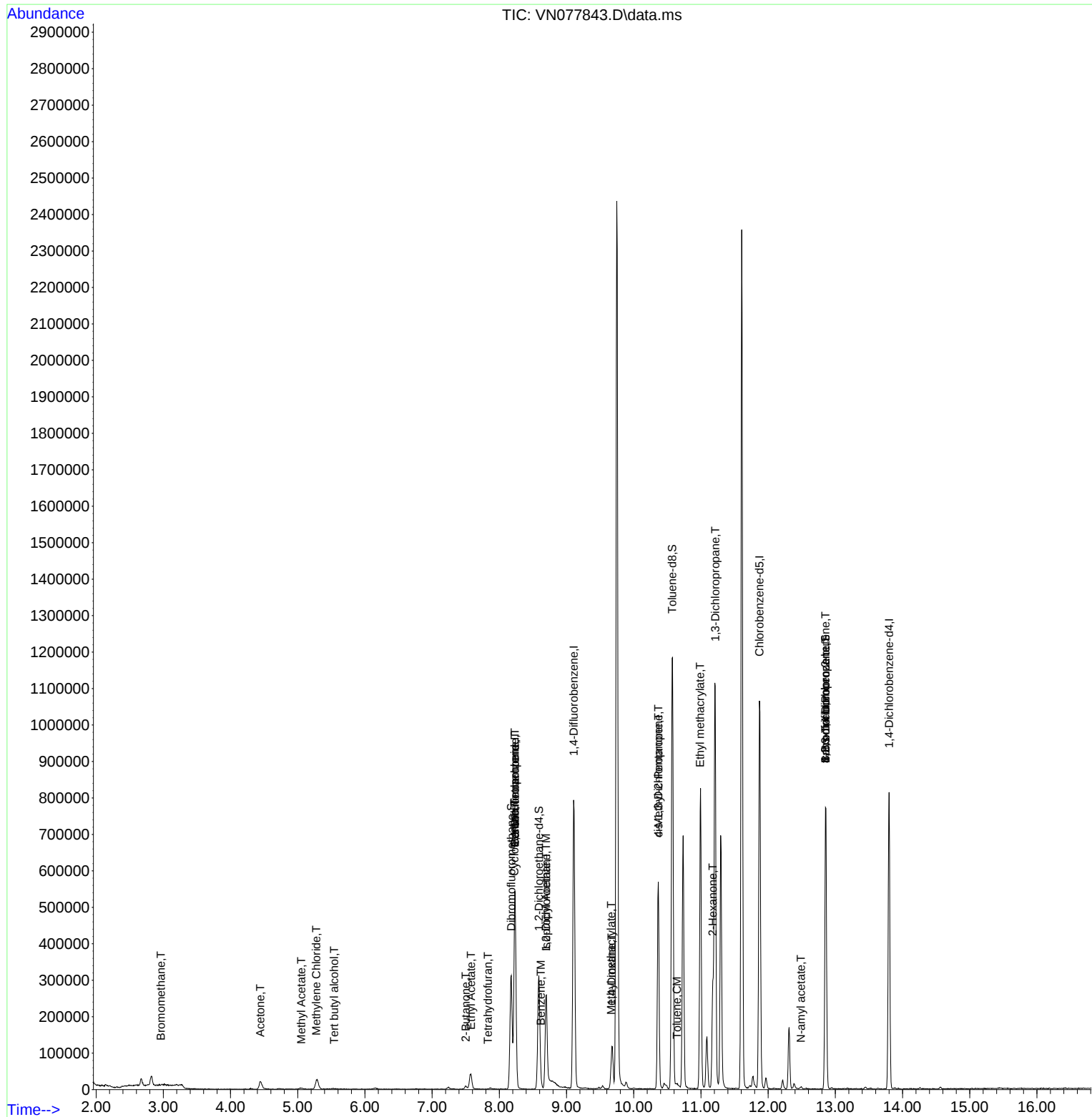
Internal Standards						
1) Pentafluorobenzene	8.230	168	389494	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	705227	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.871	117	645352	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.800	152	221017	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	257224	44.137	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	88.280%		
35) Dibromofluoromethane	8.177	113	225735	49.087	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	98.180%		
50) Toluene-d8	10.571	98	881069	49.776	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	99.560%		
62) 4-Bromofluorobenzene	12.853	95	285095	45.604	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	91.200%		
Target Compounds						Qvalue
3) Chloromethane	2.371	50	828	Below Cal	#	52
5) Bromomethane	2.965	94	872	0.211	ug/l #	32
11) Tert butyl alcohol	5.542	59	1650	2.051	ug/l #	72
13) Acrolein	4.177	56	481	Below Cal		96
16) Acetone	4.442	43	40538	22.109	ug/l	93
18) Methyl Acetate	5.053	43	5727	0.745	ug/l	90
20) Methylene Chloride	5.277	84	21519	2.638	ug/l #	93
25) 2-Butanone	7.500	43	12664	4.415	ug/l #	77
29) Tetrahydrofuran	7.830	42	530	0.282	ug/l #	20
31) Cyclohexane	8.224	56	9325	1.177	ug/l #	58
36) 1,1-Dichloropropene	8.230	75	32865	4.886	ug/l #	49
37) Ethyl Acetate	7.577	43	63372	10.570	ug/l	97
38) Carbon Tetrachloride	8.230	117	41874	6.165	ug/l #	16
40) Benzene	8.618	78	11559	0.582	ug/l #	83
42) 1,2-Dichloroethane	8.694	62	2332	0.323	ug/l #	73
43) Isopropyl Acetate	8.694	43	304963	31.142	ug/l #	82
48) Methyl methacrylate	9.665	41	7750	1.669	ug/l #	30
49) 1,4-Dioxane	9.671	88	79	0.901	ug/l #	1
51) 4-Methyl-2-Pentanone	10.365	43	202445	34.779	ug/l #	41
52) Toluene	10.641	92	3565	0.288	ug/l	79
54) cis-1,3-Dichloropropene	10.365	75	107714	13.307	ug/l #	67
56) Ethyl methacrylate	10.988	69	2957	0.399	ug/l #	1
57) 1,3-Dichloropropane	11.212	76	12591	1.497	ug/l #	43
59) 2-Hexanone	11.177	43	227451	52.829	ug/l #	19
71) Bromoform	12.853	173	2042	0.634	ug/l #	28
74) N-amyl acetate	12.488	43	3201	0.455	ug/l #	39
76) 1,2,3-Trichloropropane	12.853	75	150799	27.244	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.853	75	150799	87.087	ug/l #	15

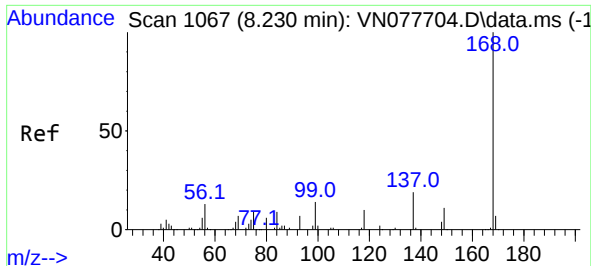
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN052323\
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Response via : Initial Calibration

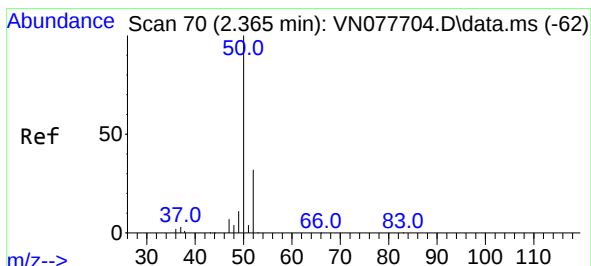
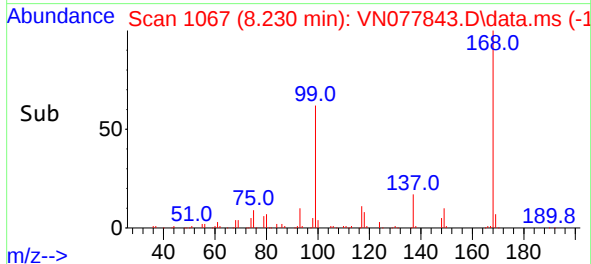
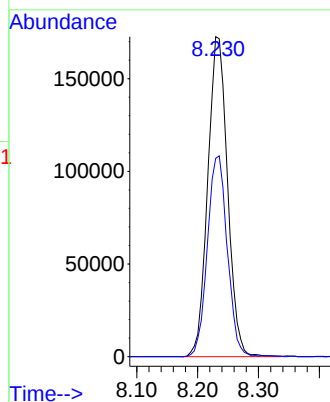
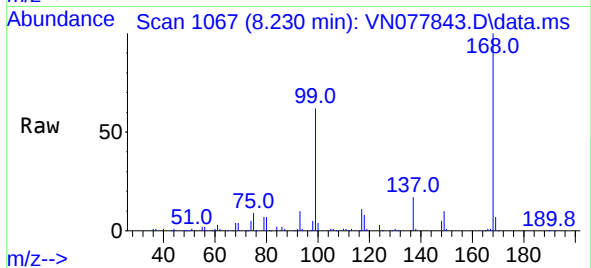




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

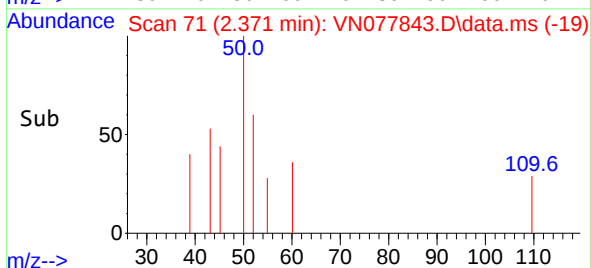
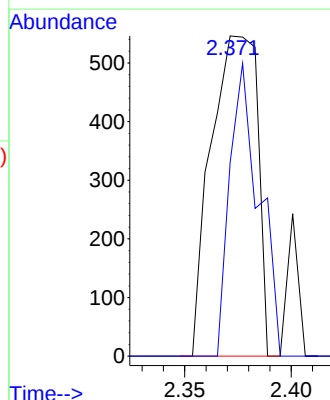
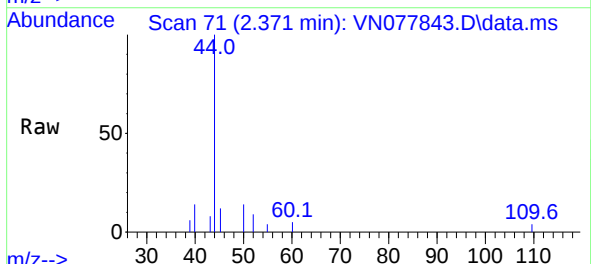
Instrument :
MSVOA_N
ClientSampleId :
TP-50A

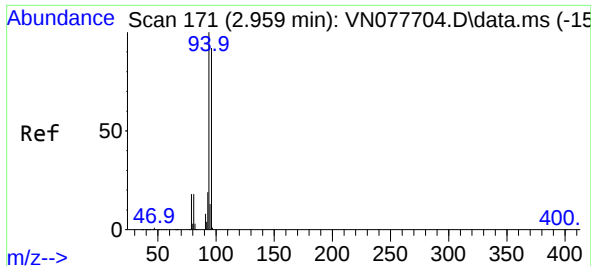
Tgt Ion:168 Resp: 389494
Ion Ratio Lower Upper
168 100
99 62.0 53.0 79.6



#3
Chloromethane
Concen: Below Cal
RT: 2.371 min Scan# 71
Delta R.T. 0.006 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Tgt Ion: 50 Resp: 828
Ion Ratio Lower Upper
50 100
52 60.4 26.5 39.7#

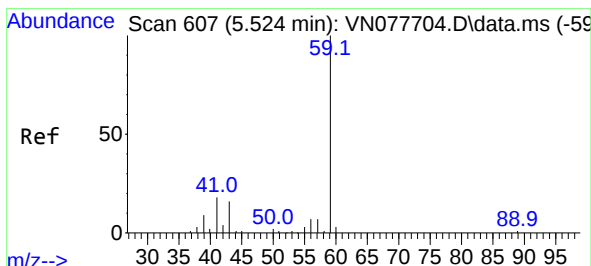
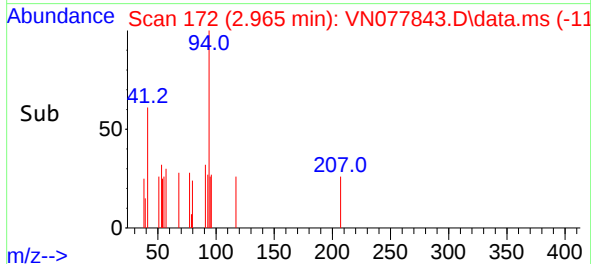
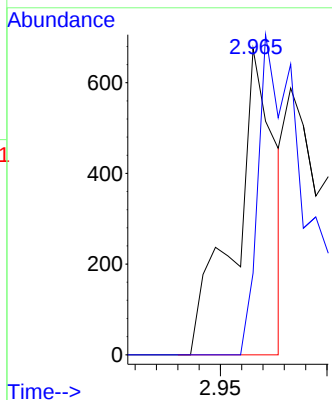
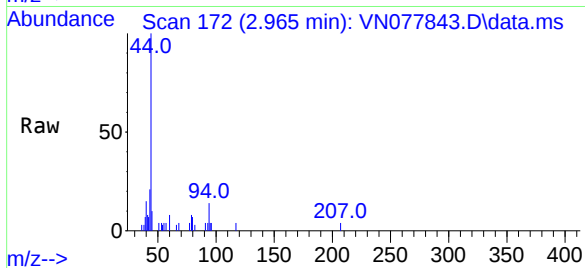




#5
Bromomethane
Concen: 0.211 ug/l
RT: 2.965 min Scan# 11
Delta R.T. 0.018 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

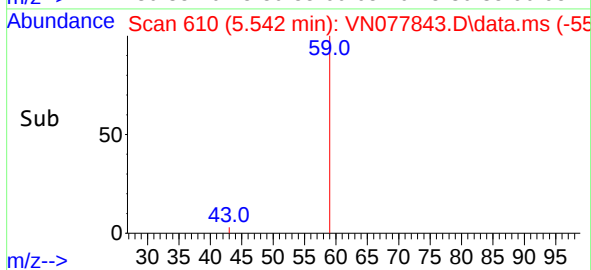
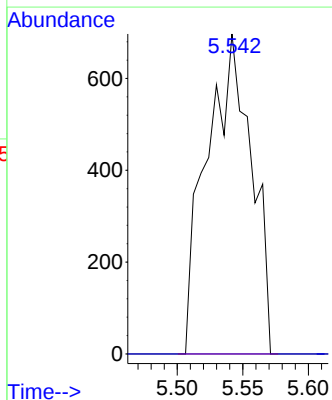
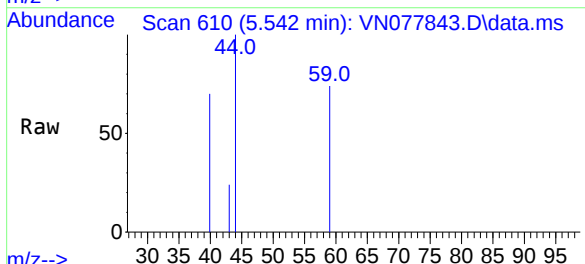
Instrument :
MSVOA_N
ClientSampleId :
TP-50A

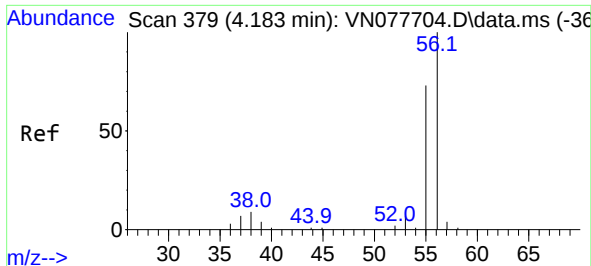
Tgt Ion: 94 Resp: 872
Ion Ratio Lower Upper
94 100
96 26.7 73.1 109.7#



#11
Tert butyl alcohol
Concen: 2.051 ug/l
RT: 5.542 min Scan# 610
Delta R.T. 0.012 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Tgt Ion: 59 Resp: 1650
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.4#

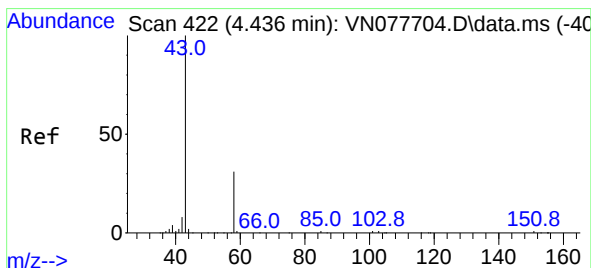
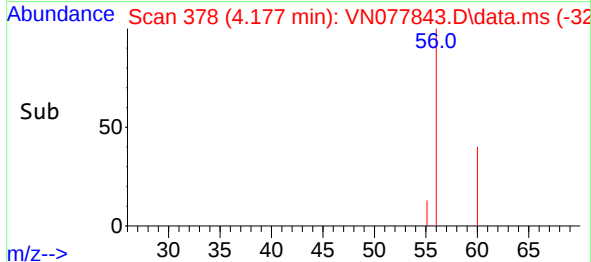
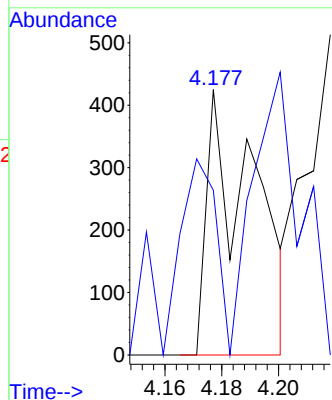
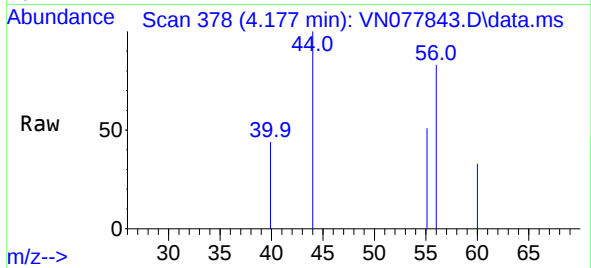




#13
Acrolein
Concen: Below Cal
RT: 4.177 min Scan# 31
Delta R.T. -0.012 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

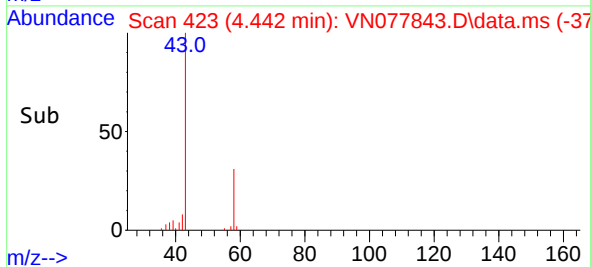
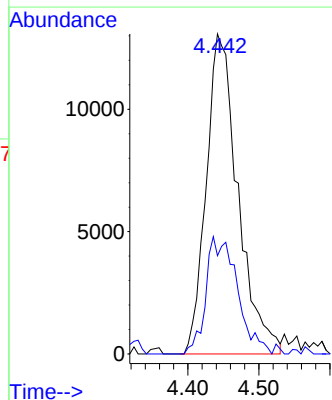
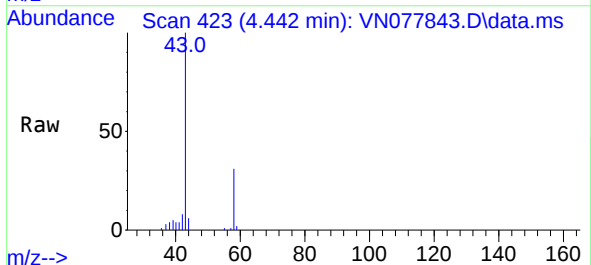
Instrument :
MSVOA_N
ClientSampleId :
TP-50A

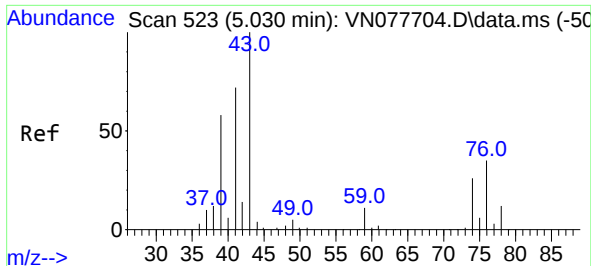
Tgt Ion: 56 Resp: 481
Ion Ratio Lower Upper
56 100
55 71.1 54.5 81.7



#16
Acetone
Concen: 22.109 ug/l
RT: 4.442 min Scan# 423
Delta R.T. 0.012 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Tgt Ion: 43 Resp: 40538
Ion Ratio Lower Upper
43 100
58 30.7 28.0 42.0

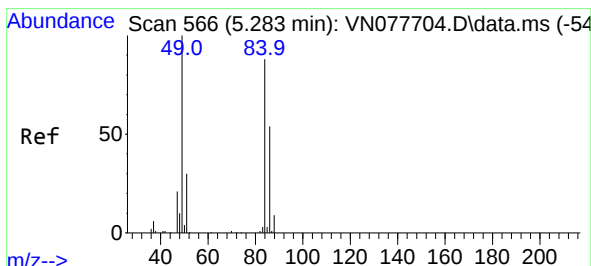
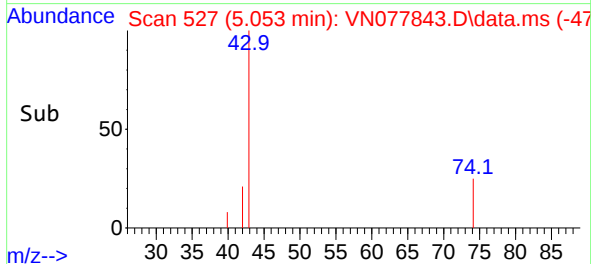
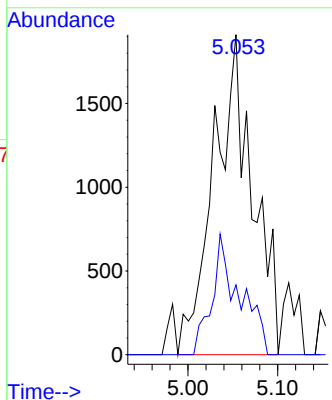
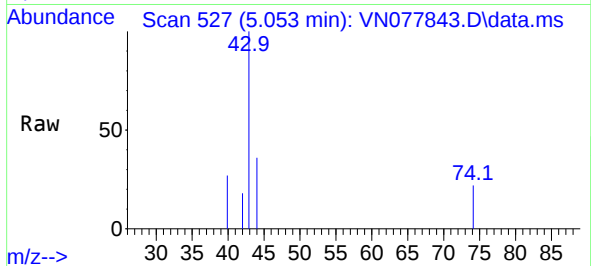




#18
Methyl Acetate
Concen: 0.745 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.017 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

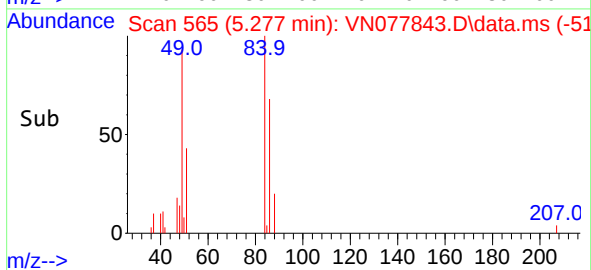
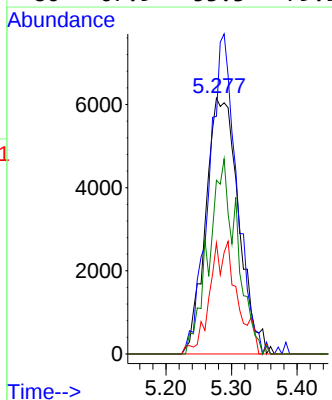
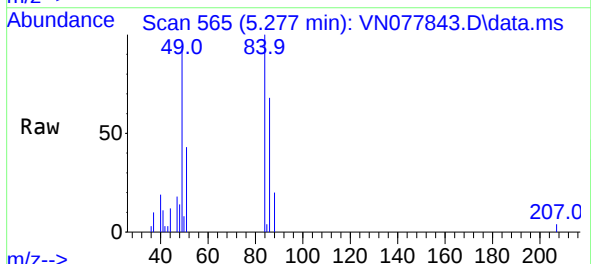
Instrument :
MSVOA_N
ClientSampleId :
TP-50A

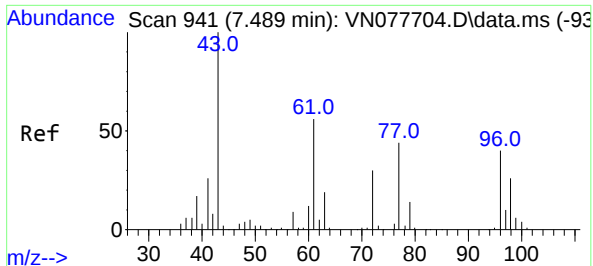
Tgt Ion: 43 Resp: 5727
Ion Ratio Lower Upper
43 100
74 27.1 26.2 39.4



#20
Methylene Chloride
Concen: 2.638 ug/l
RT: 5.277 min Scan# 565
Delta R.T. -0.006 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Tgt Ion: 84 Resp: 21519
Ion Ratio Lower Upper
84 100
49 92.9 79.7 119.5
51 43.4 25.2 37.8#
86 67.9 53.3 79.9

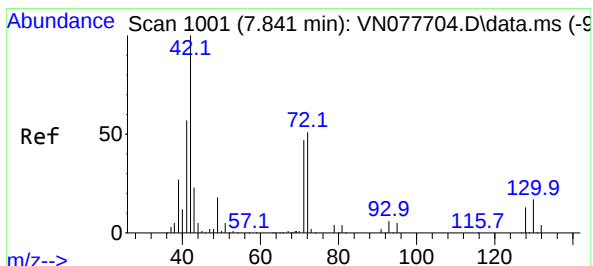
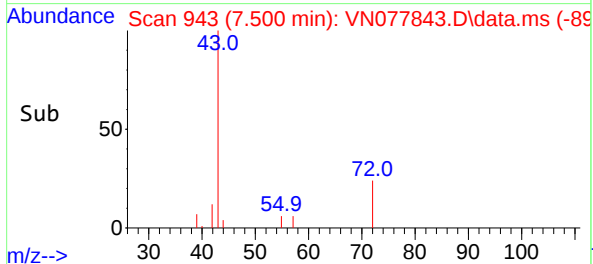
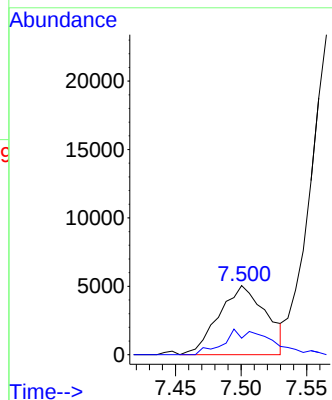
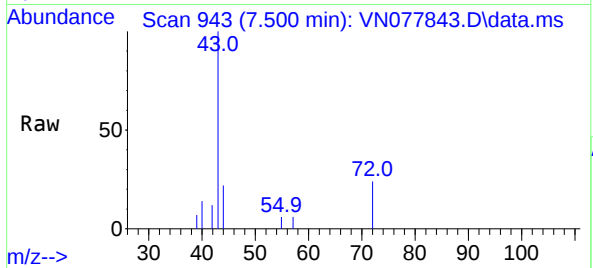




#25
2-Butanone
Concen: 4.415 ug/l
RT: 7.500 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

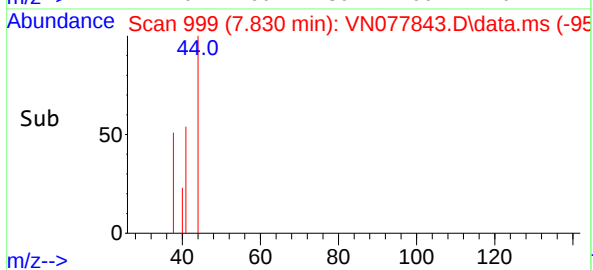
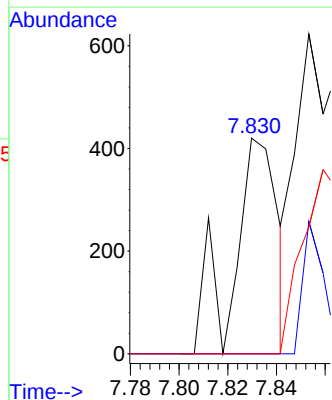
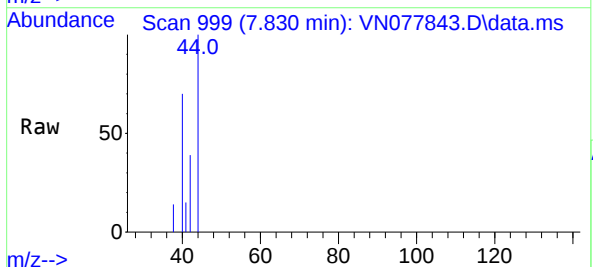
Instrument :
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ClientSampleId :
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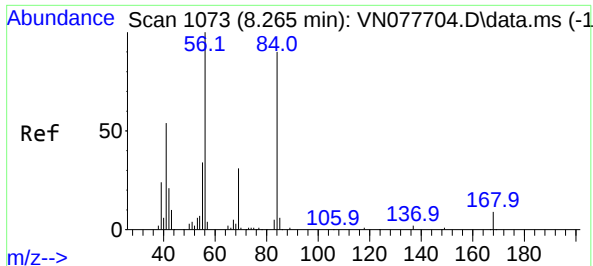
Tgt Ion: 43 Resp: 12664
Ion Ratio Lower Upper
43 100
72 23.8 30.2 45.2#



#29
Tetrahydrofuran
Concen: 0.282 ug/l
RT: 7.830 min Scan# 999
Delta R.T. -0.011 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Tgt Ion: 42 Resp: 530
Ion Ratio Lower Upper
42 100
72 0.0 49.8 74.6#
71 0.0 47.4 71.2#





#31

Cyclohexane

Concen: 1.177 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.041 min

Lab File: VN077843.D

Acq: 24 May 2023 06:13

Instrument :

MSVOA_N

ClientSampleId :

TP-50A

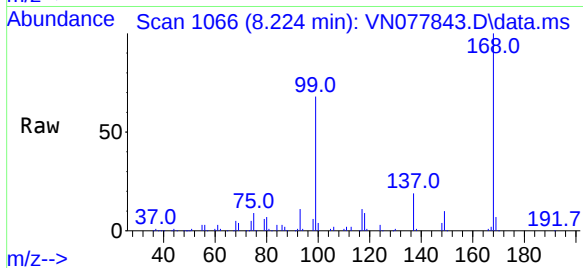
Tgt Ion: 56 Resp: 9325

Ion Ratio Lower Upper

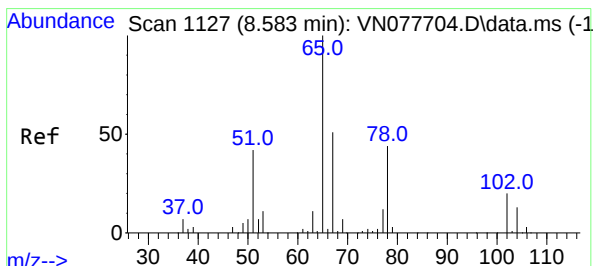
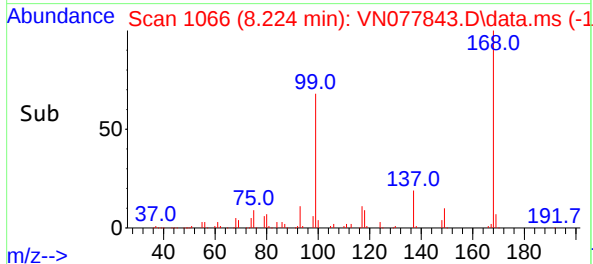
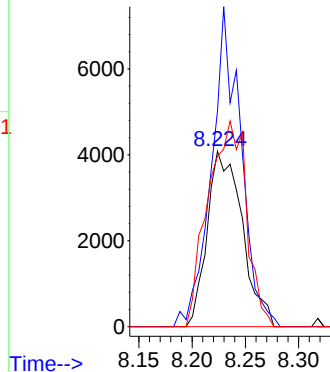
56 100

69 122.7 26.8 40.2#

84 97.1 81.8 122.6



Abundance



#33

1,2-Dichloroethane-d4

Concen: 44.137 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. 0.006 min

Lab File: VN077843.D

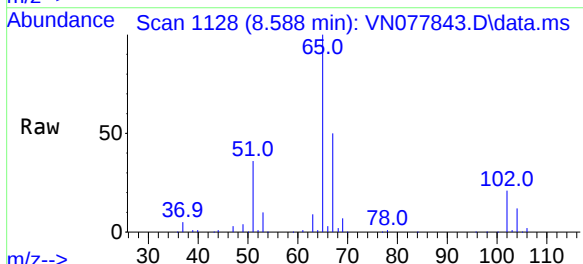
Acq: 24 May 2023 06:13

Tgt Ion: 65 Resp: 257224

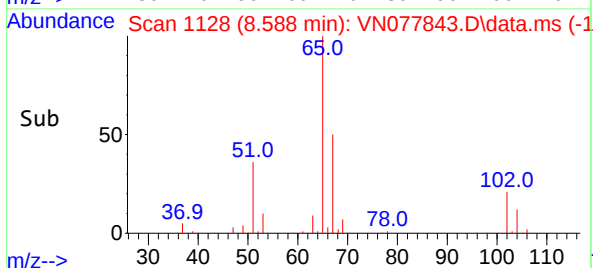
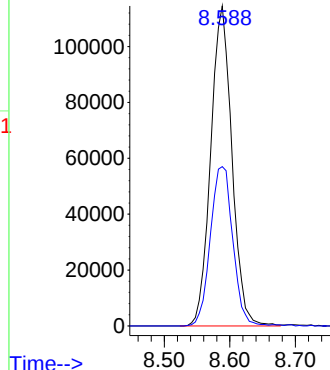
Ion Ratio Lower Upper

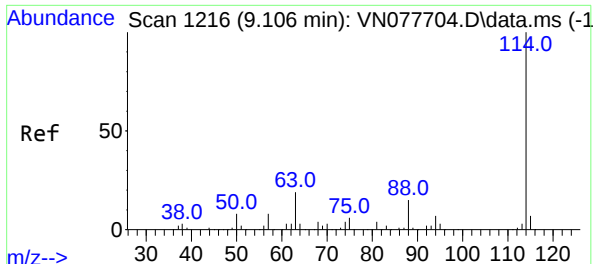
65 100

67 52.5 0.0 106.6



Abundance

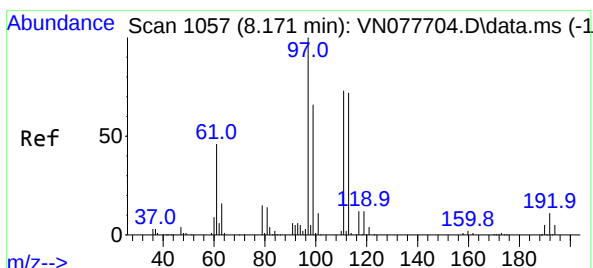
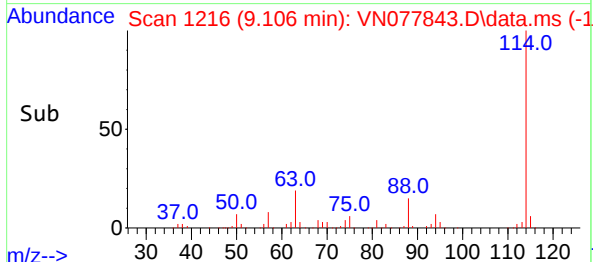
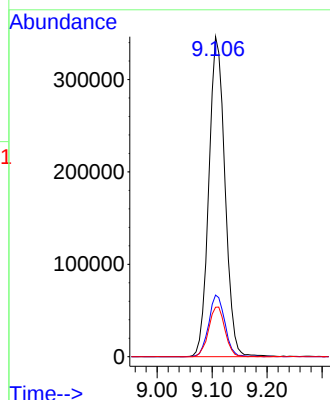
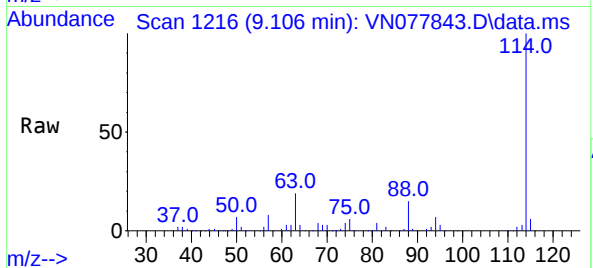




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.106 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

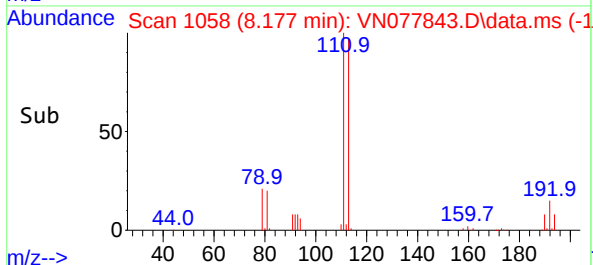
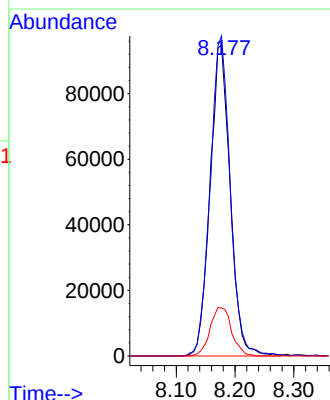
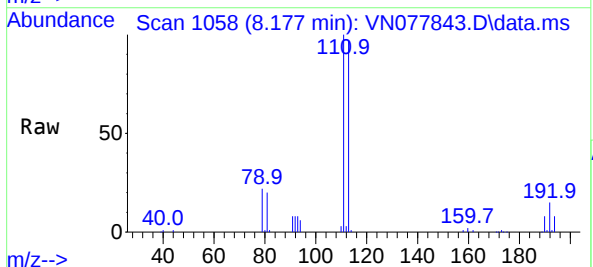
Instrument :
MSVOA_N
ClientSampleId :
TP-50A

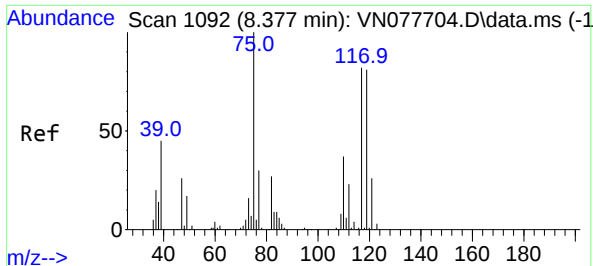
Tgt Ion:114 Resp: 705227
Ion Ratio Lower Upper
114 100
63 19.2 0.0 36.4
88 15.5 0.0 30.6



#35
Dibromofluoromethane
Concen: 49.087 ug/l
RT: 8.177 min Scan# 1058
Delta R.T. 0.006 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Tgt Ion:113 Resp: 225735
Ion Ratio Lower Upper
113 100
111 102.0 82.6 123.8
192 16.6 12.7 19.1

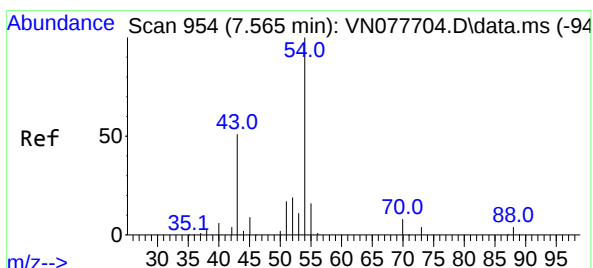
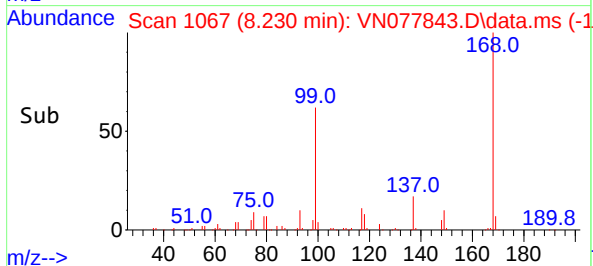
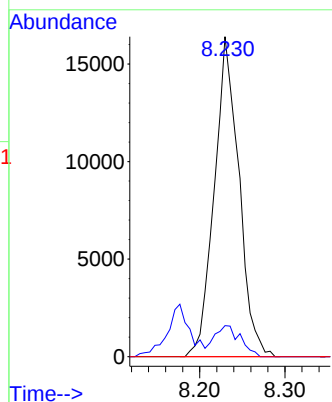
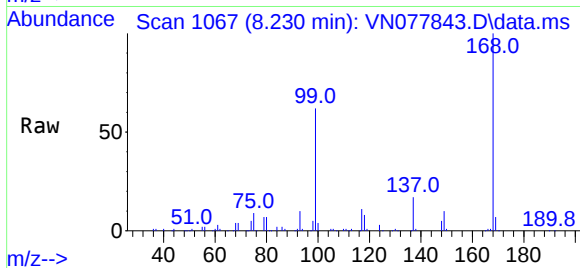




#36
1,1-Dichloropropene
Concen: 4.886 ug/l
RT: 8.230 min Scan# 1092
Delta R.T. -0.147 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

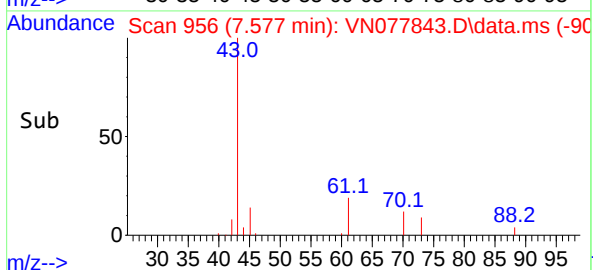
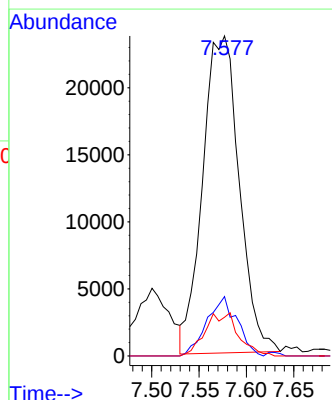
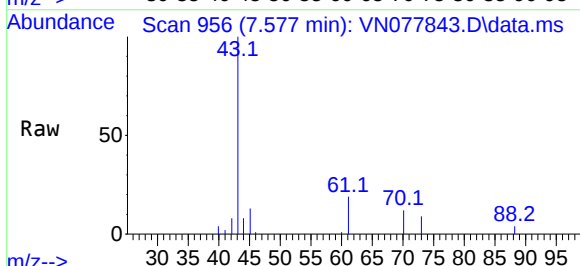
Instrument :
MSVOA_N
ClientSampleId :
TP-50A

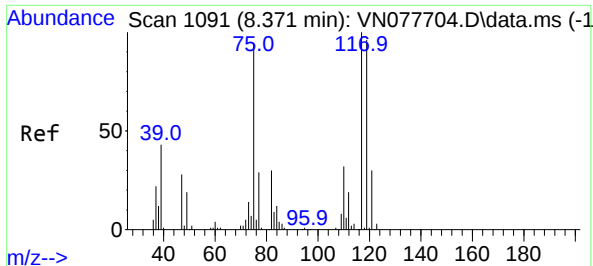
Tgt Ion: 75 Resp: 32865
Ion Ratio Lower Upper
75 100
110 10.3 19.1 57.3#
77 0.0 25.0 37.4#



#37
Ethyl Acetate
Concen: 10.570 ug/l
RT: 7.577 min Scan# 956
Delta R.T. 0.012 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Tgt Ion: 43 Resp: 63372
Ion Ratio Lower Upper
43 100
61 15.6 13.2 19.8
70 12.4 11.3 16.9

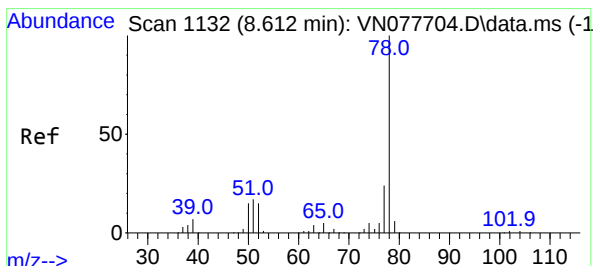
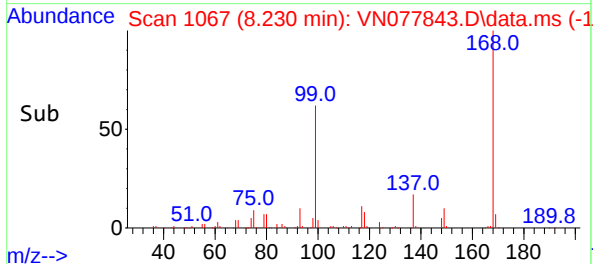
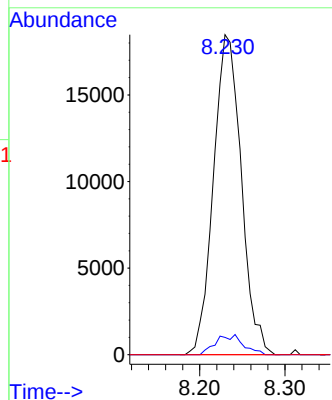
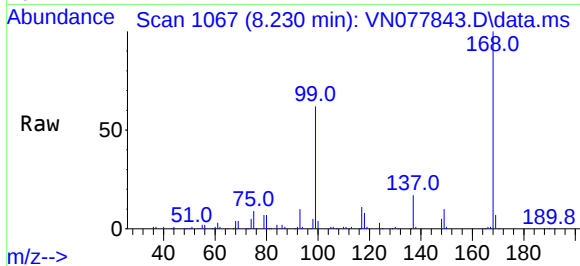




#38
Carbon Tetrachloride
Concen: 6.165 ug/l
RT: 8.230 min Scan# 1091
Delta R.T. -0.141 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

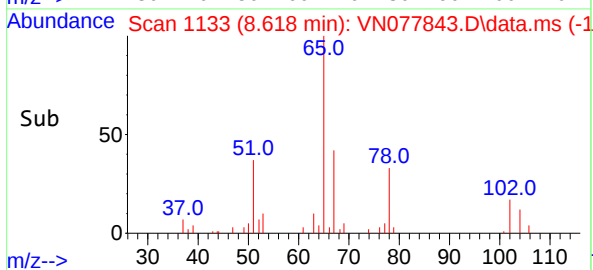
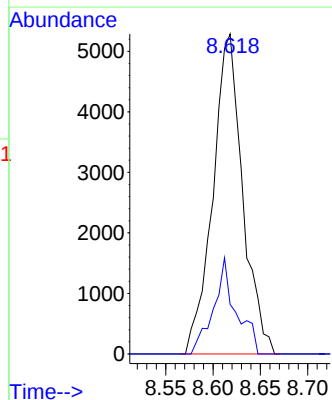
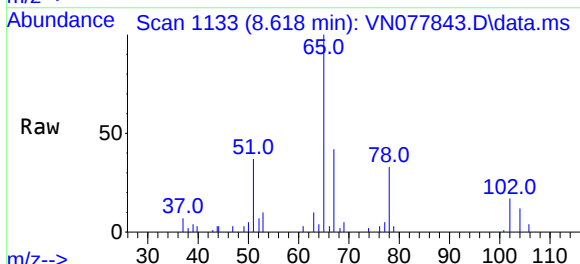
Instrument :
MSVOA_N
ClientSampleId :
TP-50A

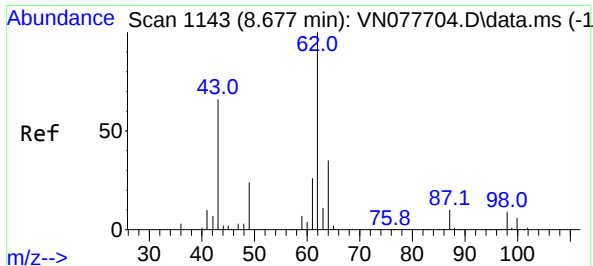
Tgt Ion:117 Resp: 41874
Ion Ratio Lower Upper
117 100
119 5.4 77.3 115.9#
121 0.0 23.3 34.9#



#40
Benzene
Concen: 0.582 ug/l
RT: 8.618 min Scan# 1133
Delta R.T. 0.006 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Tgt Ion: 78 Resp: 11559
Ion Ratio Lower Upper
78 100
77 15.5 19.0 28.6#

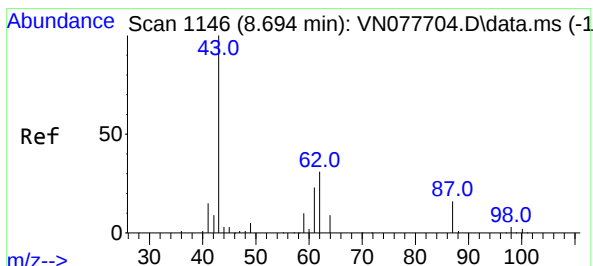
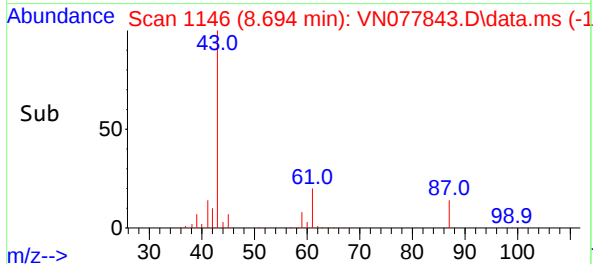
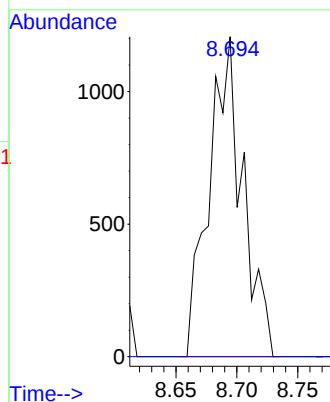
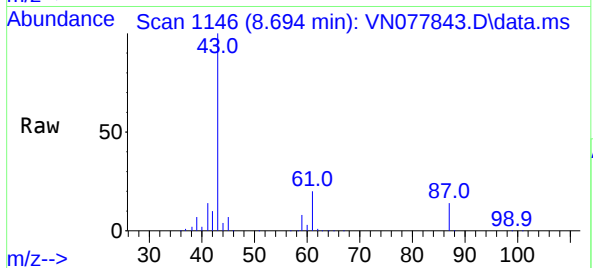




#42
1,2-Dichloroethane
Concen: 0.323 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.017 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

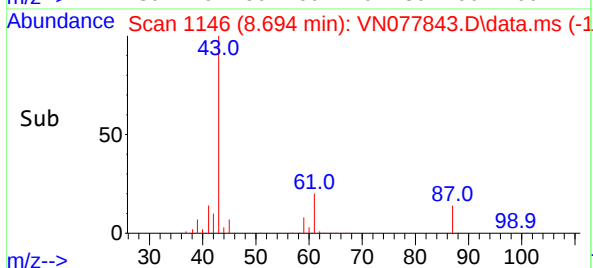
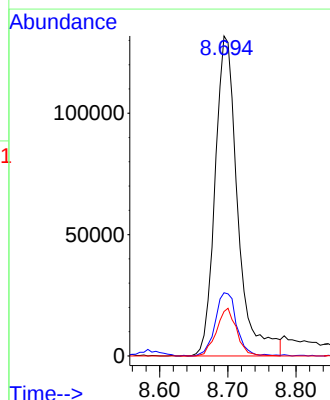
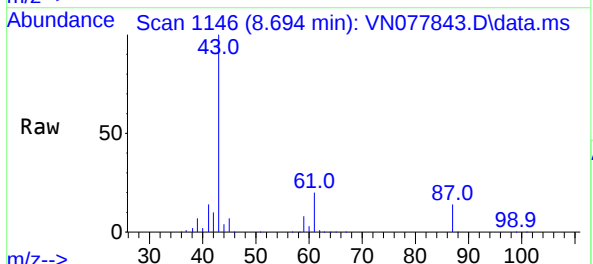
Instrument :
MSVOA_N
ClientSampleId :
TP-50A

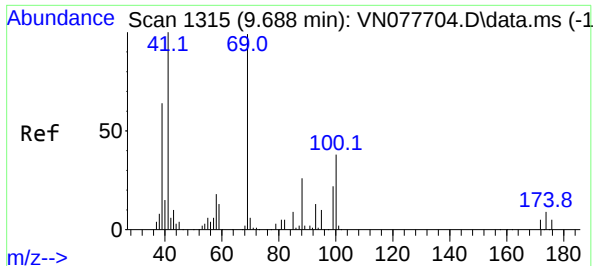
Tgt Ion: 62 Resp: 2332
Ion Ratio Lower Upper
62 100
98 0.0 0.0 19.8



#43
Isopropyl Acetate
Concen: 31.142 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. 0.000 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Tgt Ion: 43 Resp: 304963
Ion Ratio Lower Upper
43 100
61 18.5 24.7 37.1#
87 13.3 14.6 21.8#





#48

Methyl methacrylate

Concen: 1.669 ug/l

RT: 9.665 min Scan# 1311

Delta R.T. -0.023 min

Lab File: VN077843.D

Acq: 24 May 2023 06:13

Instrument :

MSVOA_N

ClientSampleId :

TP-50A

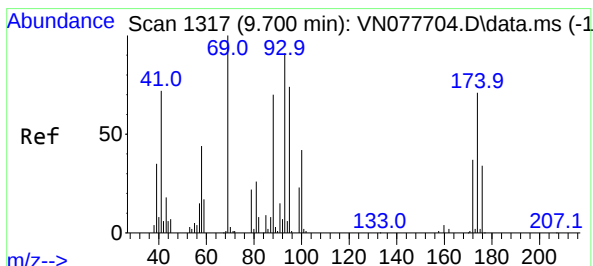
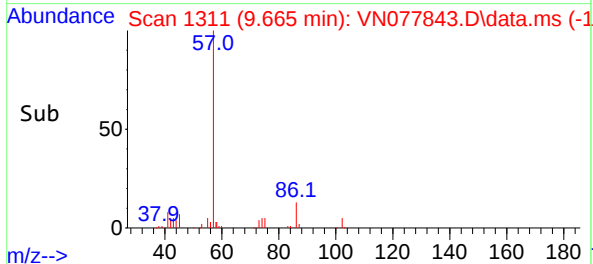
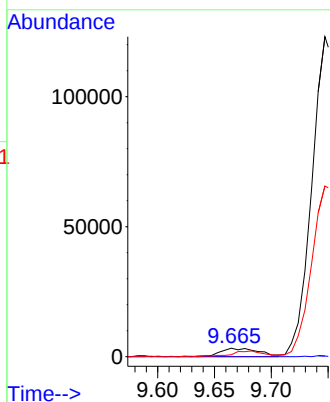
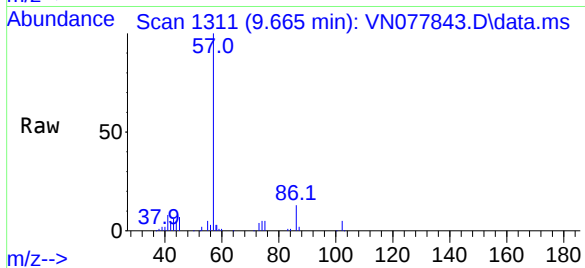
Tgt Ion: 41 Resp: 7750

Ion Ratio Lower Upper

41 100

69 0.0 90.4 135.6#

39 58.0 54.6 81.8



#49

1,4-Dioxane

Concen: 0.901 ug/l

RT: 9.671 min Scan# 1312

Delta R.T. -0.023 min

Lab File: VN077843.D

Acq: 24 May 2023 06:13

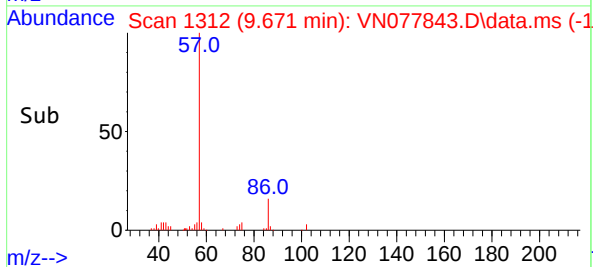
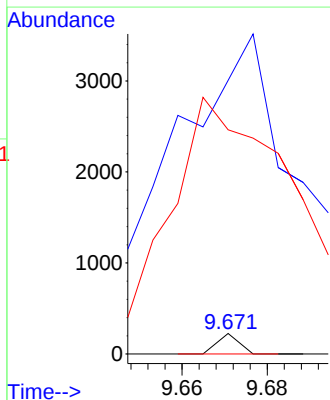
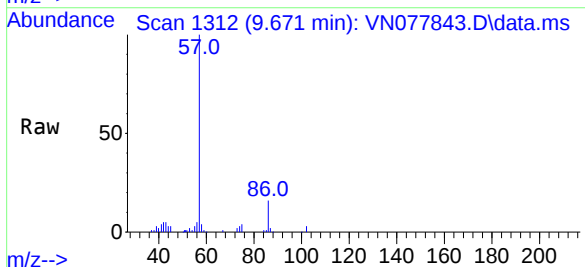
Tgt Ion: 88 Resp: 79

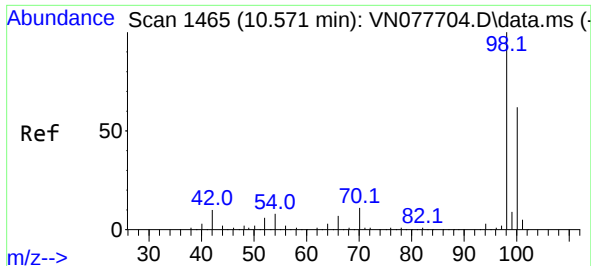
Ion Ratio Lower Upper

88 100

43 0.0 17.0 25.6#

58 7806.3 47.0 70.4#

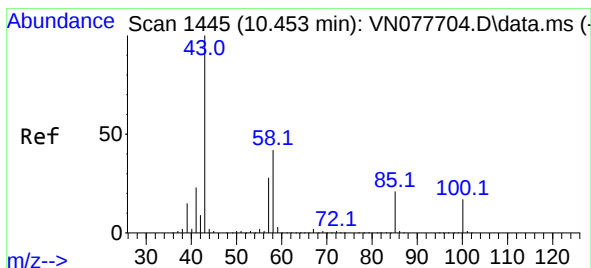
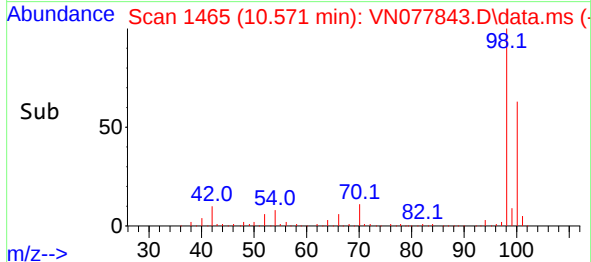
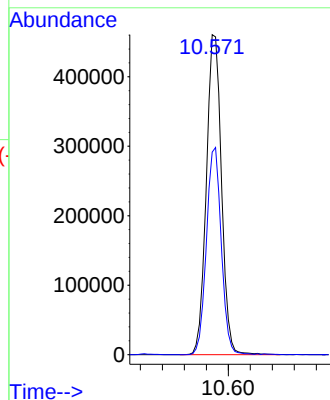
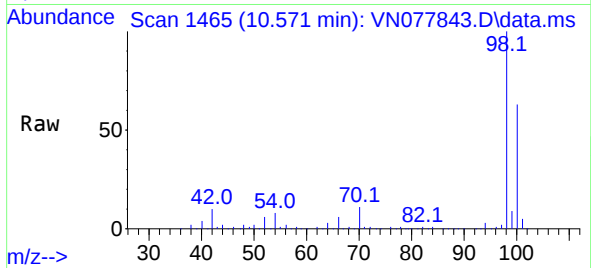




#50
Toluene-d8
Concen: 49.776 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

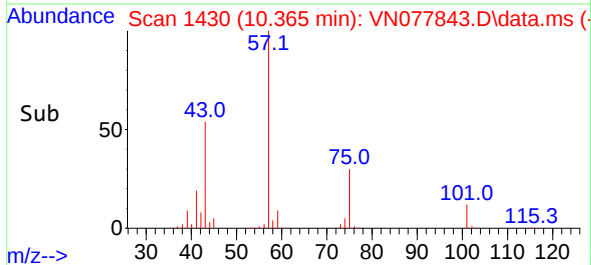
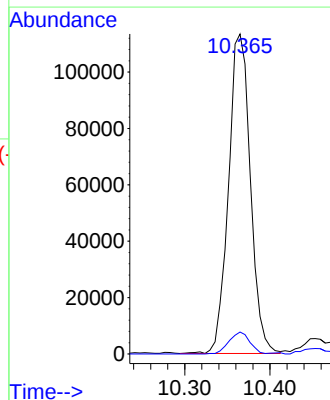
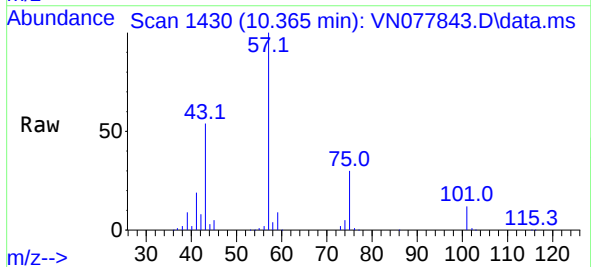
Instrument :
MSVOA_N
ClientSampleId :
TP-50A

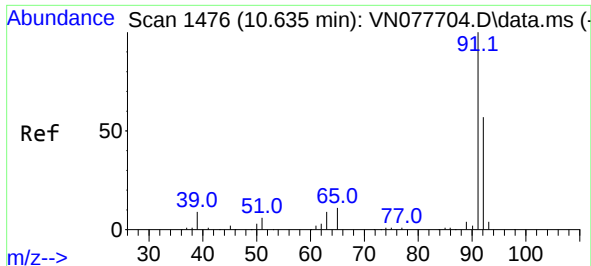
Tgt Ion: 98 Resp: 881069
Ion Ratio Lower Upper
98 100
100 63.4 52.0 78.0



#51
4-Methyl-2-Pentanone
Concen: 34.779 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. -0.082 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Tgt Ion: 43 Resp: 202445
Ion Ratio Lower Upper
43 100
58 6.5 36.6 54.8#

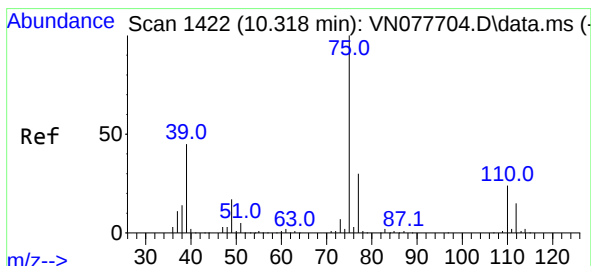
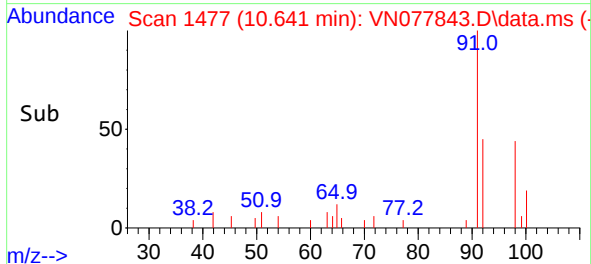
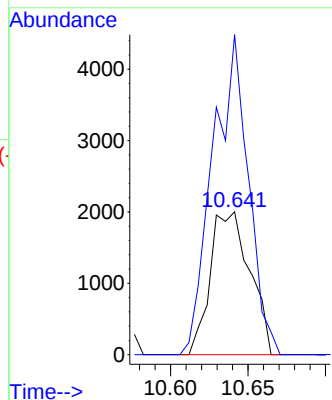
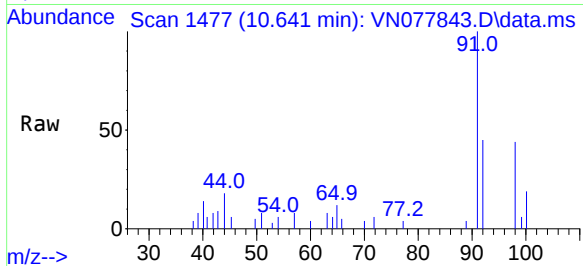




#52
Toluene
Concen: 0.288 ug/l
RT: 10.641 min Scan# 1476
Delta R.T. 0.006 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

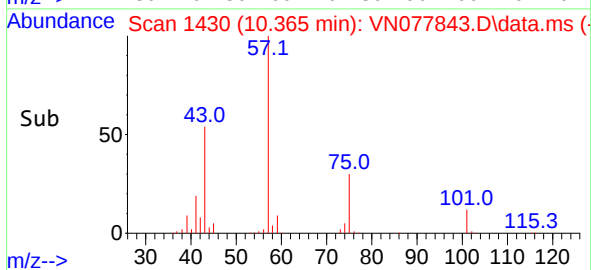
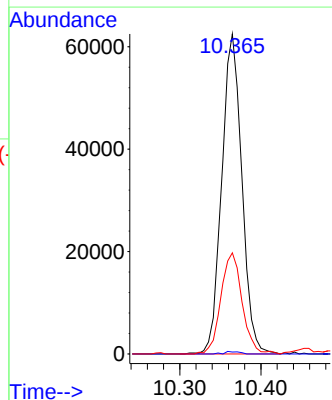
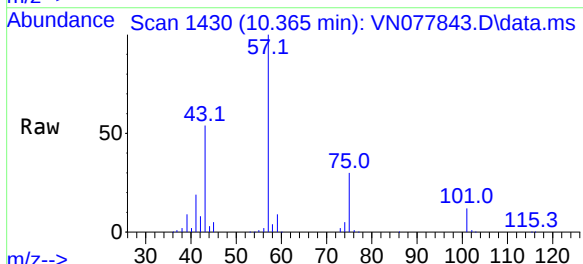
Instrument :
MSVOA_N
ClientSampleId :
TP-50A

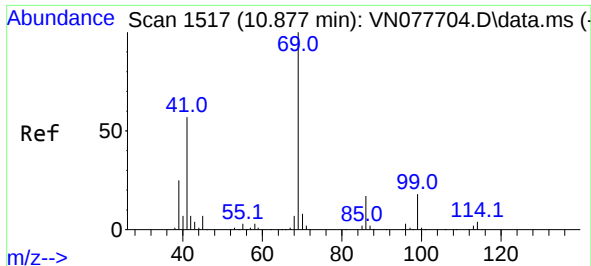
Tgt Ion: 92 Resp: 3565
Ion Ratio Lower Upper
92 100
91 200.4 137.4 206.0



#54
cis-1,3-Dichloropropene
Concen: 13.307 ug/l
RT: 10.365 min Scan# 1430
Delta R.T. 0.047 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Tgt Ion: 75 Resp: 107714
Ion Ratio Lower Upper
75 100
77 0.6 26.1 39.1#
39 31.6 31.6 47.4

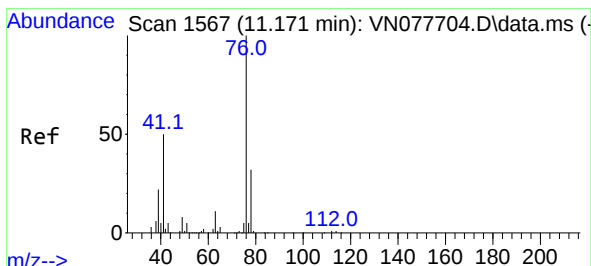
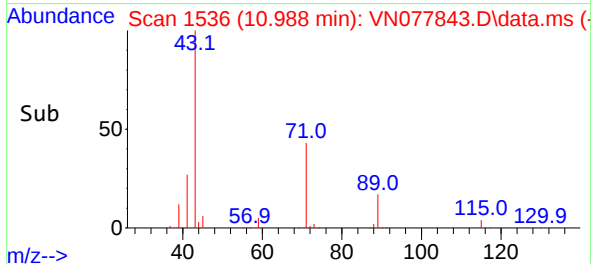
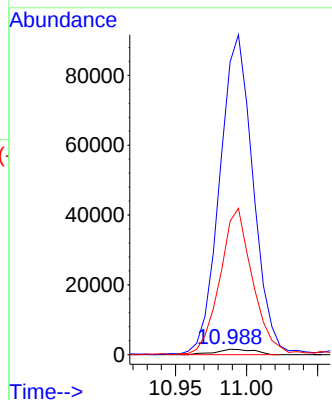
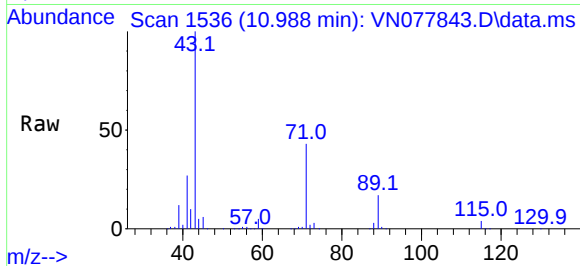




#56
Ethyl methacrylate
Concen: 0.399 ug/l
RT: 10.988 min Scan# 11
Delta R.T. 0.106 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

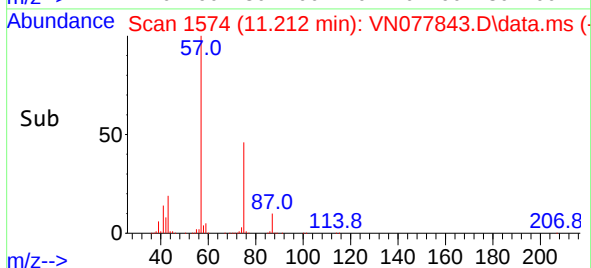
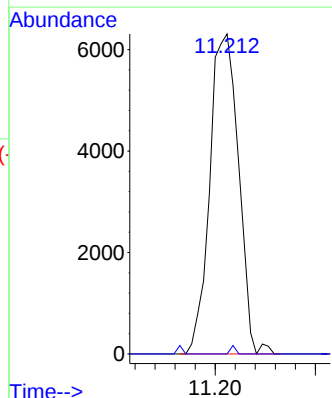
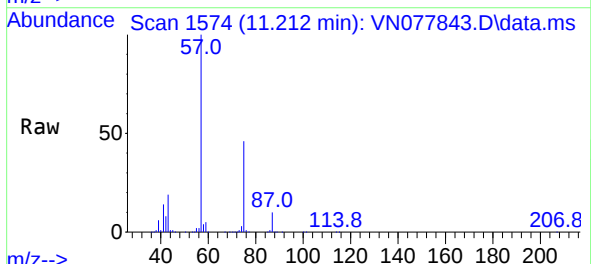
Instrument :
MSVOA_N
ClientSampleId :
TP-50A

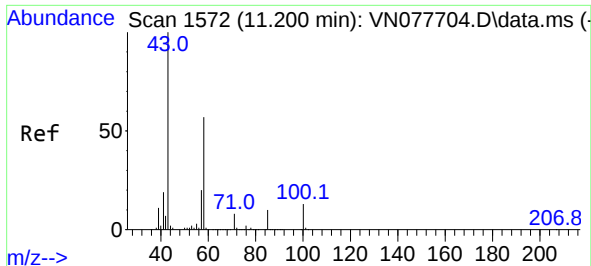
Tgt Ion: 69 Resp: 2957
Ion Ratio Lower Upper
69 100
41 5101.0 39.6 59.4#
39 2280.4 28.6 43.0#



#57
1,3-Dichloropropane
Concen: 1.497 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.041 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Tgt Ion: 76 Resp: 12591
Ion Ratio Lower Upper
76 100
78 0.5 26.1 39.1#

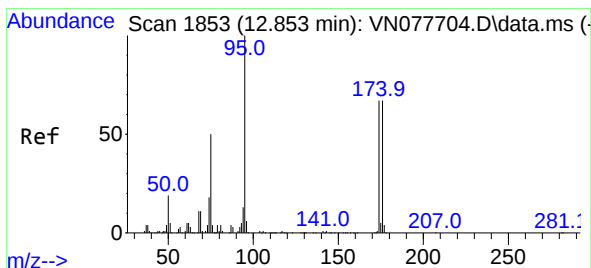
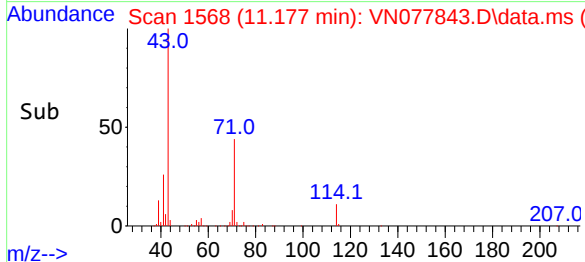
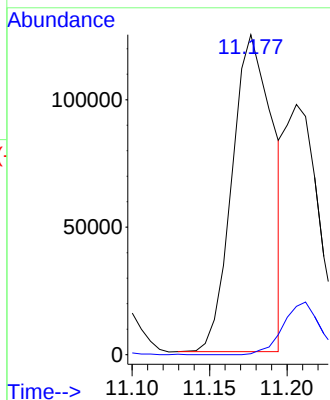
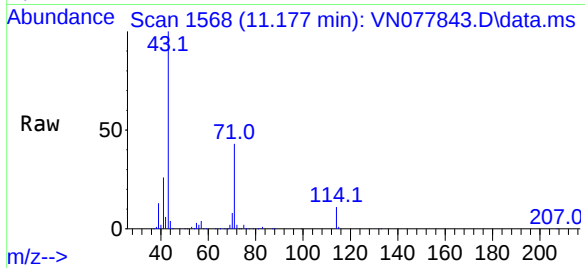




#59
2-Hexanone
Concen: 52.829 ug/l
RT: 11.177 min Scan# 1117
Delta R.T. -0.023 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

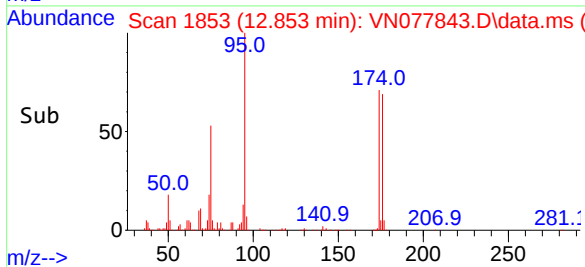
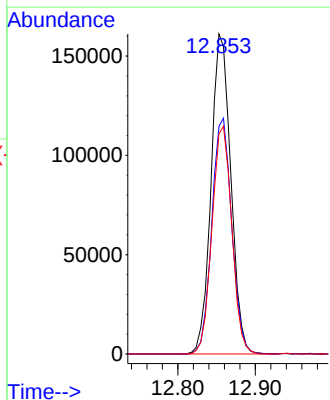
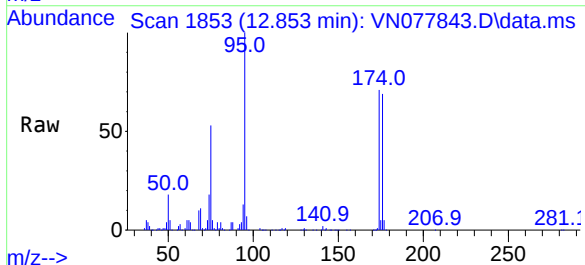
Instrument :
MSVOA_N
ClientSampleId :
TP-50A

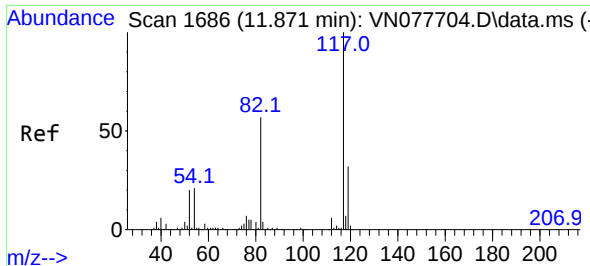
Tgt Ion: 43 Resp: 227451
Ion Ratio Lower Upper
43 100
58 0.0 31.7 95.1#



#62
4-Bromofluorobenzene
Concen: 45.604 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.000 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

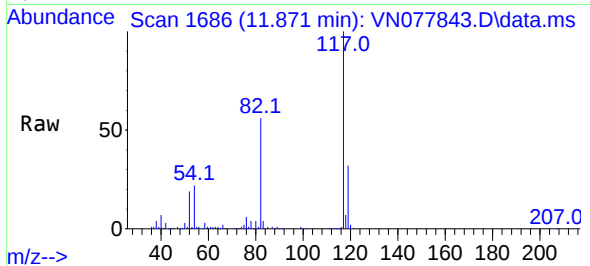
Tgt Ion: 95 Resp: 285095
Ion Ratio Lower Upper
95 100
174 74.4 0.0 143.8
176 71.3 0.0 135.8



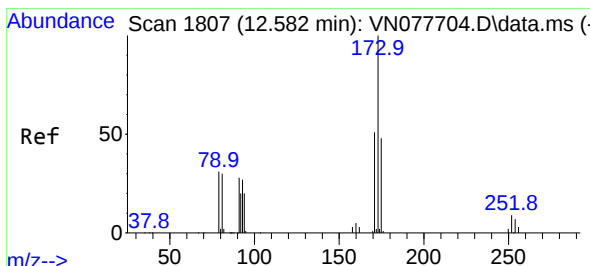
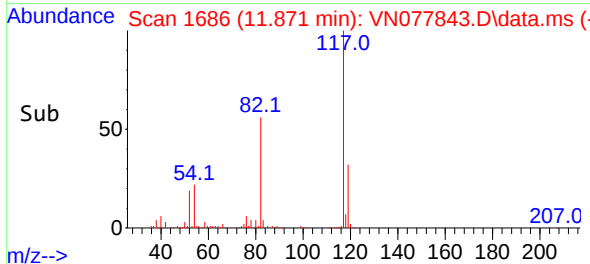
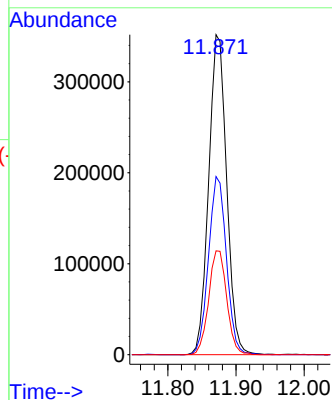


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.871 min Scan# 1170
Delta R.T. 0.001 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Instrument :
MSVOA_N
ClientSampleId :
TP-50A

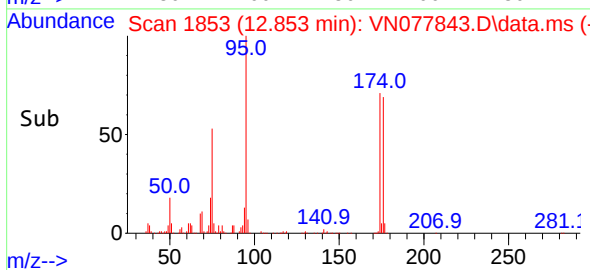
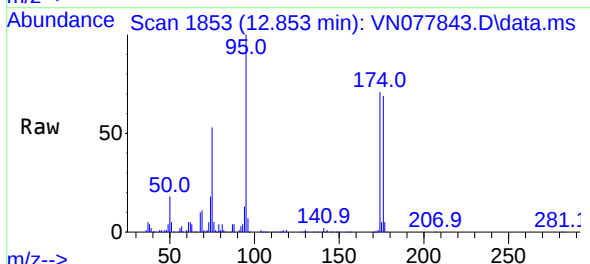
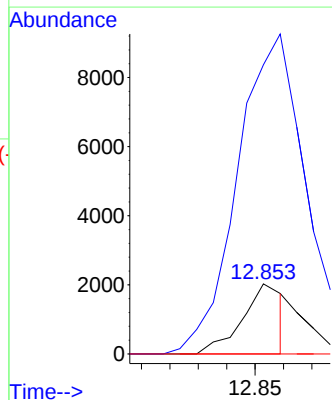


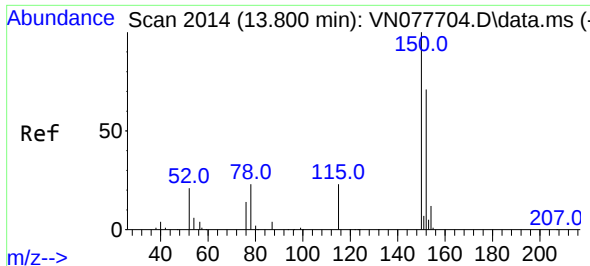
Tgt Ion:117 Resp: 645352
Ion Ratio Lower Upper
117 100
82 55.6 44.0 66.0
119 32.5 25.6 38.4



#71
Bromoform
Concen: 0.634 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.271 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

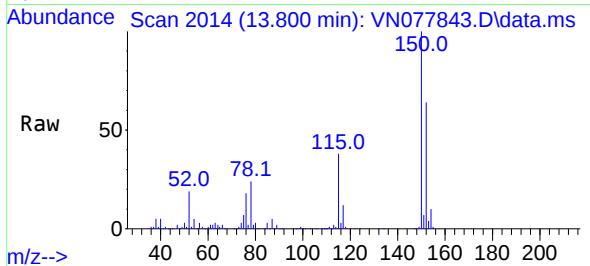
Tgt Ion:173 Resp: 2042
Ion Ratio Lower Upper
173 100
175 0.0 24.3 73.0#
254 0.0 0.0 0.0



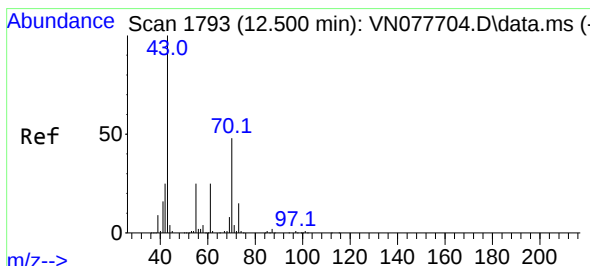
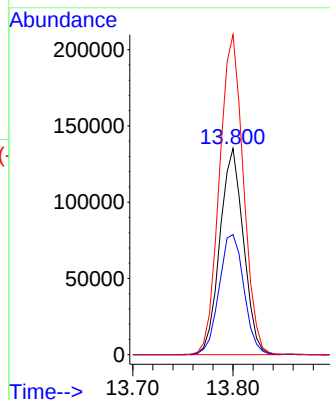
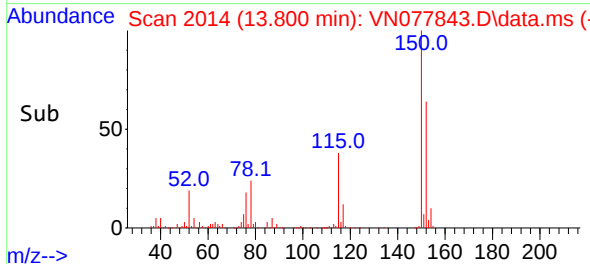


#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.800 min Scan# 20
Delta R.T. -0.000 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

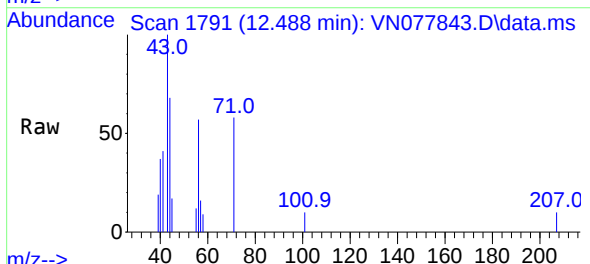
Instrument :
MSVOA_N
ClientSampleId :
TP-50A



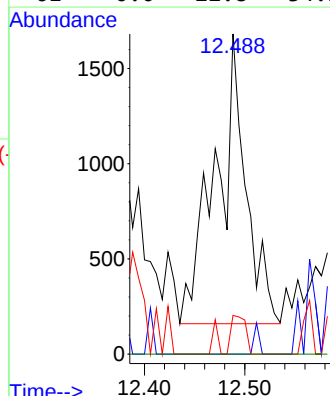
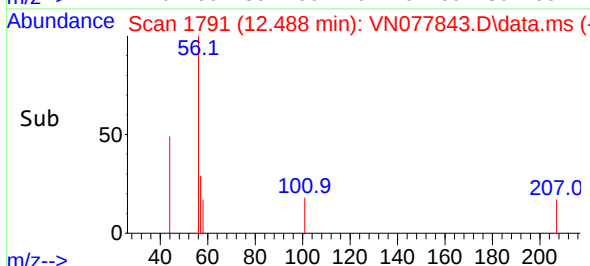
Tgt Ion:152 Resp: 221017
Ion Ratio Lower Upper
152 100
115 61.5 32.3 96.8
150 157.7 0.0 355.8

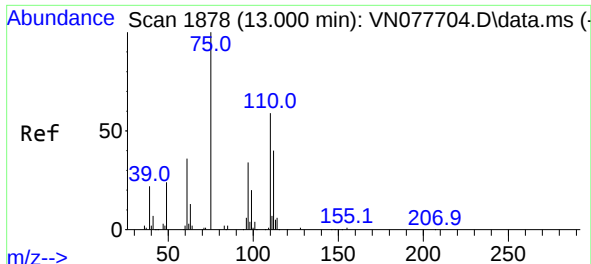


#74
N-ethyl acetate
Concen: 0.455 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.012 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13



Tgt Ion: 43 Resp: 3201
Ion Ratio Lower Upper
43 100
70 0.0 43.4 65.2#
55 6.4 21.4 32.0#
61 0.0 22.8 34.2#

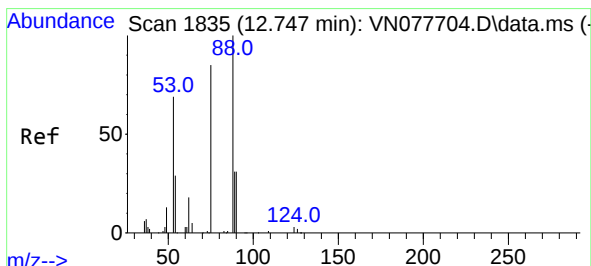
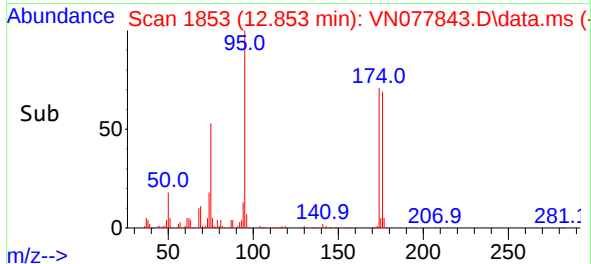
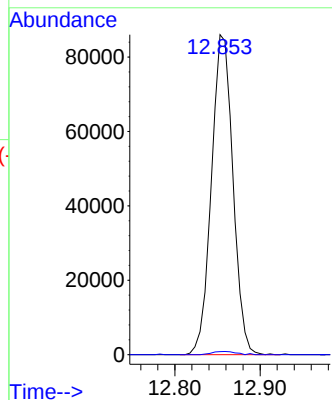
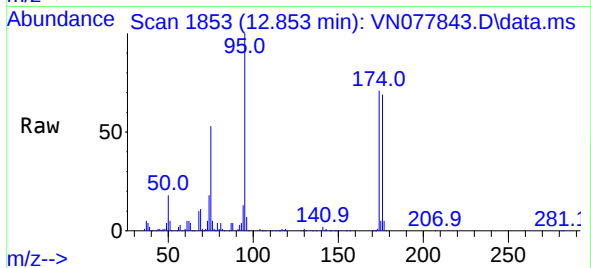




#76
1,2,3-Trichloropropane
Concen: 27.244 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. -0.147 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Instrument :
MSVOA_N
ClientSampleId :
TP-50A

Tgt Ion: 75 Resp: 150799
Ion Ratio Lower Upper
75 100
77 1.1 84.5 253.5#



#81
trans-1,4-Dichloro-2-butene
Concen: 87.087 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.112 min
Lab File: VN077843.D
Acq: 24 May 2023 06:13

Tgt Ion: 75 Resp: 150799
Ion Ratio Lower Upper
75 100
53 0.0 67.4 101.2#
89 0.0 38.8 58.2#

