

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN111124\
 Data File : VN084776.D
 Acq On : 11 Nov 2024 16:54
 Operator : JC\MD
 Sample : P4756-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 12 00:34:46 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
 Quant Title : SW846 8260
 QLast Update : Thu Oct 31 18:45:38 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	8.218	168	163066	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	292513	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	266028	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	118377	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	114438	48.589	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	97.180%
35) Dibromofluoromethane	8.165	113	93752	47.350	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	94.700%
50) Toluene-d8	10.565	98	344073	47.175	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	94.360%
62) 4-Bromofluorobenzene	12.847	95	132389	48.568	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	97.140%
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	485	Below Cal	#	41
6) Chloroethane	3.142	64	261	Below Cal	#	45
11) Tert butyl alcohol	5.553	59	132	0.425	ug/l #	73
16) Acetone	4.430	43	18041	23.938	ug/l	94
18) Methyl Acetate	5.036	43	4968	Below Cal	#	85
20) Methylene Chloride	5.265	84	2446	1.181	ug/l #	69
25) 2-Butanone	7.488	43	1782	1.622	ug/l #	48
29) Tetrahydrofuran	7.853	42	236	0.324	ug/l #	34
31) Cyclohexane	8.212	56	3249	0.999	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	13559	4.938	ug/l #	52
37) Ethyl Acetate	7.547	43	2481	0.996	ug/l #	79
38) Carbon Tetrachloride	8.218	117	16967	5.528	ug/l #	14
42) 1,2-Dichloroethane	8.682	62	626	0.219	ug/l #	75
43) Isopropyl Acetate	8.688	43	133524	28.597	ug/l #	83
45) 1,2-Dichloropropane	9.747	63	1313	0.635	ug/l #	44
48) Methyl methacrylate	9.741	41	81456	42.010	ug/l #	41
49) 1,4-Dioxane	9.741	88	69	2.008	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	7499	3.157	ug/l #	68
54) cis-1,3-Dichloropropene	10.359	75	34640	10.276	ug/l #	61
56) Ethyl methacrylate	10.988	69	1270	0.452	ug/l #	1
57) 1,3-Dichloropropane	11.206	76	4194	1.258	ug/l #	42
59) 2-Hexanone	11.200	43	52582	30.416	ug/l #	57
71) Bromoform	12.847	173	851	0.546	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	68103	28.780	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	68103	68.279	ug/l #	11
88) 1,4-Dichlorobenzene	13.817	146	307	Below Cal	#	42

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

Quant Time: Nov 12 00:34:46 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N103024W.M
Quant Title : SW846 8260
QLast Update : Thu Oct 31 18:45:38 2024
Response via : Initial Calibration

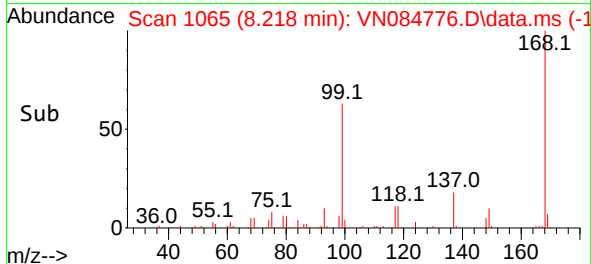
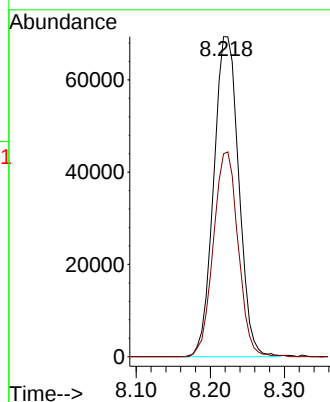
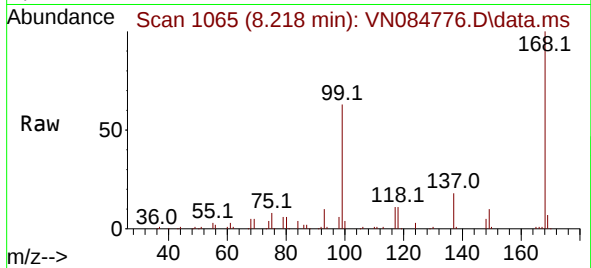




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.006 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

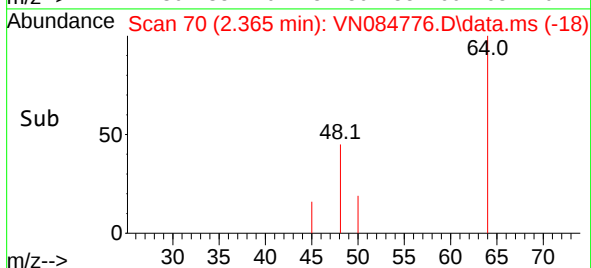
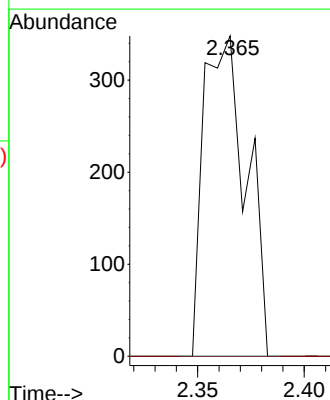
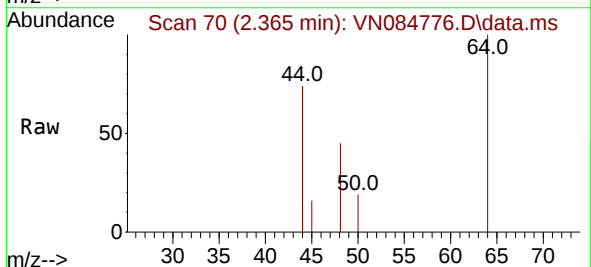
Instrument :
MSVOA_N
ClientSampleId :

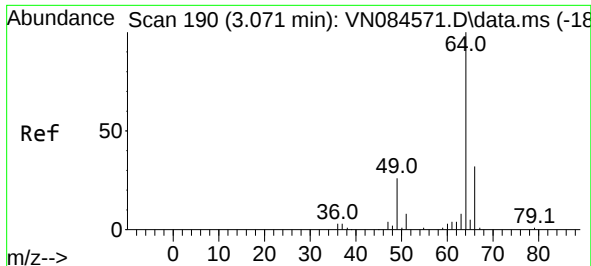
Tgt Ion:168 Resp: 163066
Ion Ratio Lower Upper
168 100
99 63.4 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

Tgt Ion: 50 Resp: 485
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#

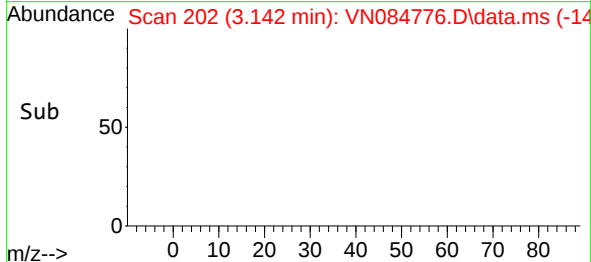
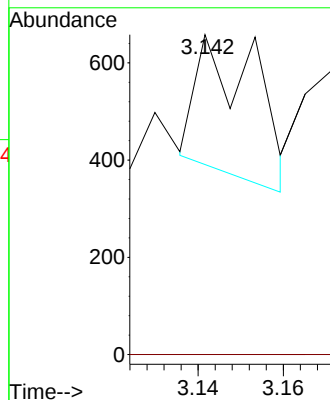
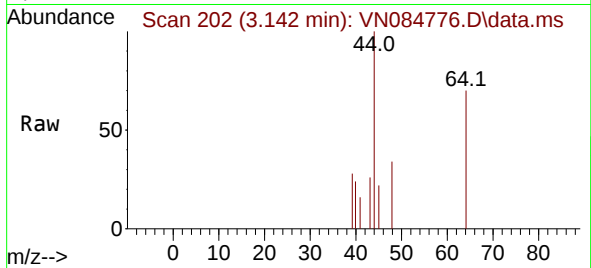




#6
Chloroethane
Concen: Below Cal
RT: 3.142 min Scan# 20
Delta R.T. 0.024 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

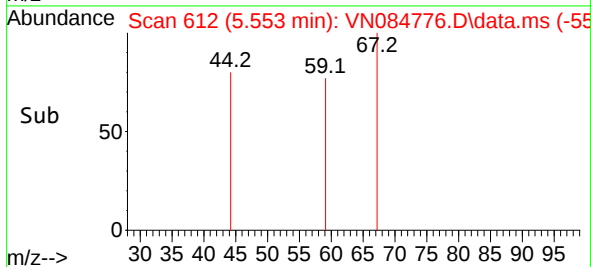
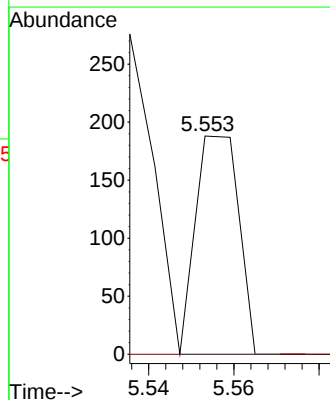
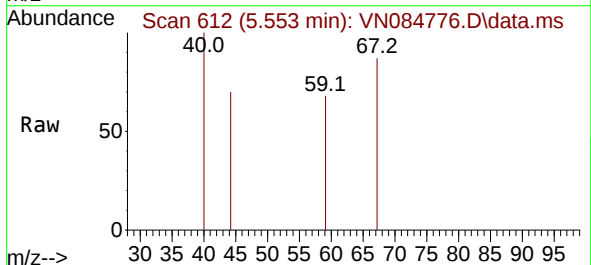
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 64 Resp: 261
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#



#11
Tert butyl alcohol
Concen: 0.425 ug/l
RT: 5.553 min Scan# 612
Delta R.T. 0.029 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

Tgt Ion: 59 Resp: 132
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

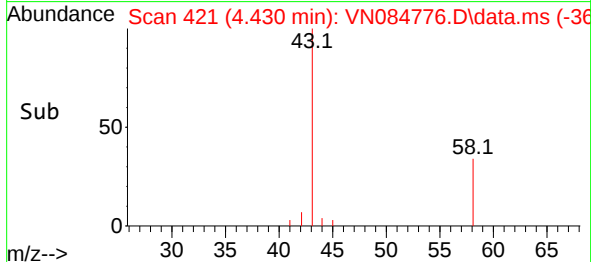
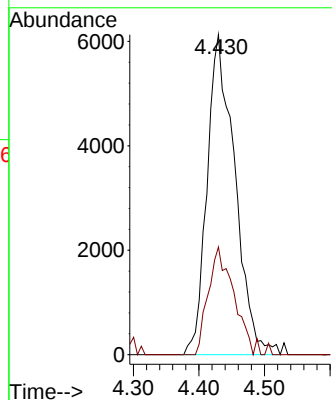
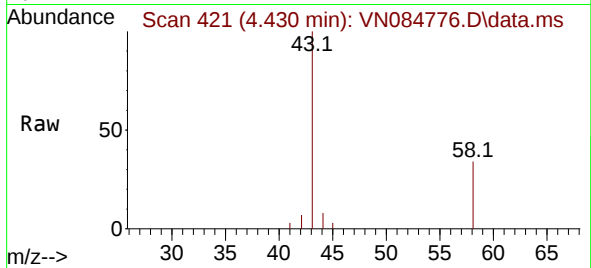




#16
Acetone
Concen: 23.938 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

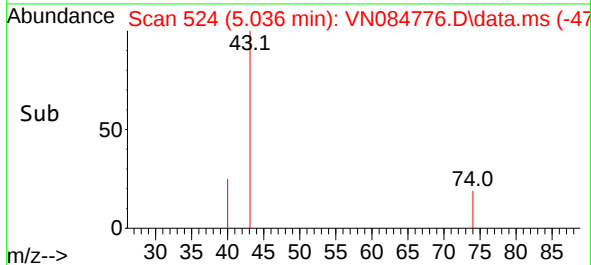
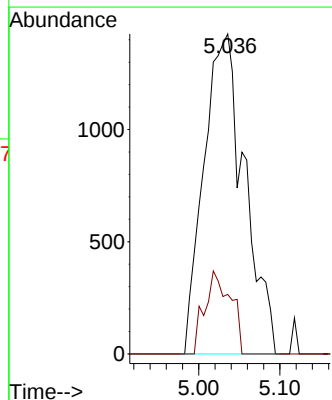
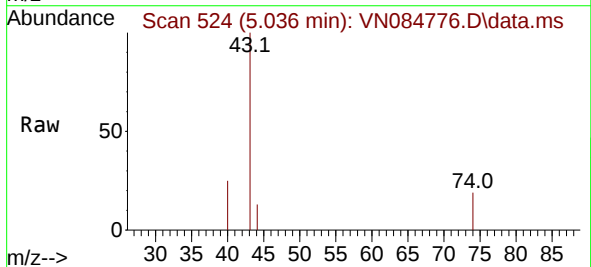
Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 43 Resp: 18041
Ion Ratio Lower Upper
43 100
58 33.6 24.4 36.6



#18
Methyl Acetate
Concen: Below Cal
RT: 5.036 min Scan# 524
Delta R.T. 0.018 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

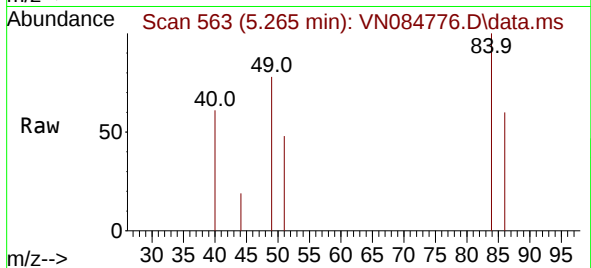
Tgt Ion: 43 Resp: 4968
Ion Ratio Lower Upper
43 100
74 16.4 19.2 28.8#



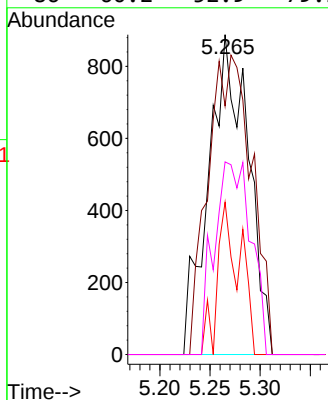
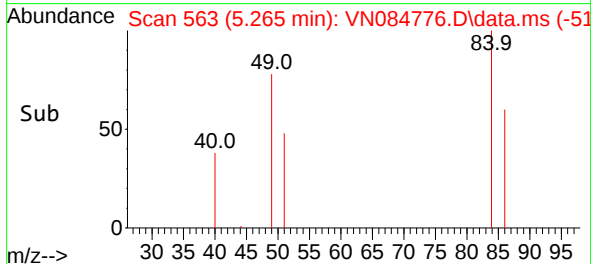


#20
Methylene Chloride
Concen: 1.181 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

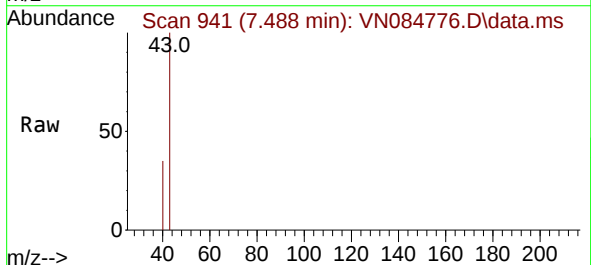
Instrument :
MSVOA_N
ClientSampleId :



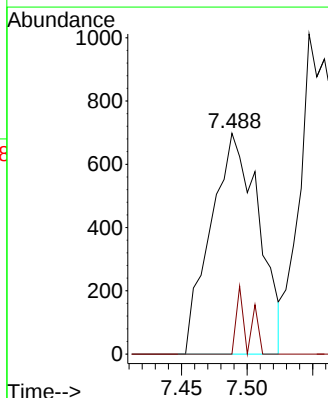
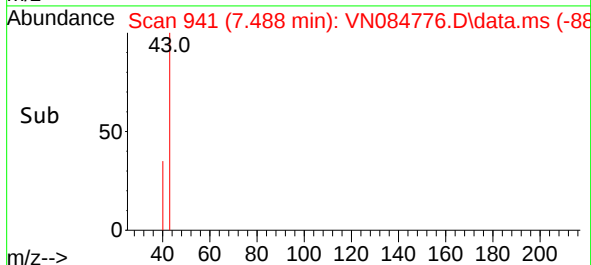
Tgt Ion: 84 Resp: 2446
Ion Ratio Lower Upper
84 100
49 77.7 107.2 160.8#
51 47.6 31.8 47.8
86 60.2 52.9 79.3

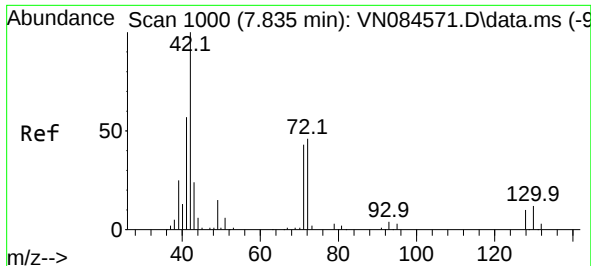


#25
2-Butanone
Concen: 1.622 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.006 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54



Tgt Ion: 43 Resp: 1782
Ion Ratio Lower Upper
43 100
72 0.0 21.4 32.2#





#29

Tetrahydrofuran

Concen: 0.324 ug/l

RT: 7.853 min Scan# 1064

Delta R.T. 0.018 min

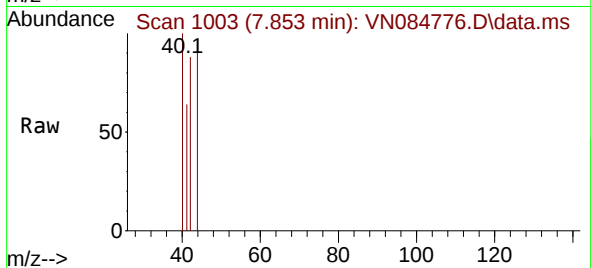
Lab File: VN084776.D

Acq: 11 Nov 2024 16:54

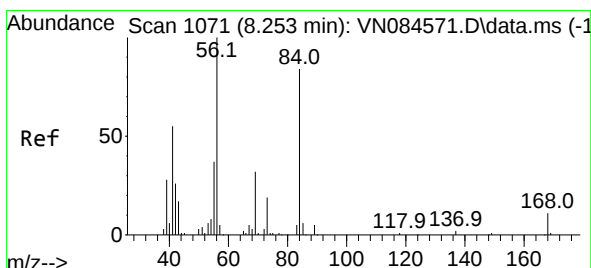
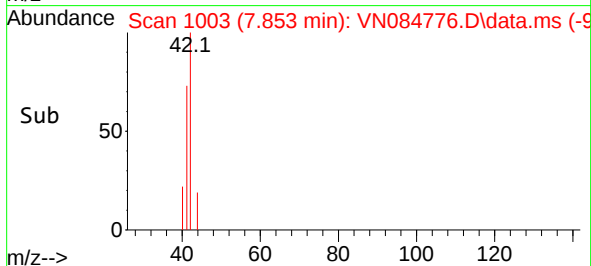
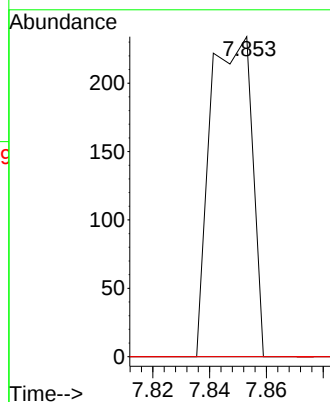
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	236
Ion	Ratio	Lower	Upper
42	100		
72	0.0	34.6	51.8#
71	0.0	32.2	48.4#



#31

Cyclohexane

Concen: 0.999 ug/l

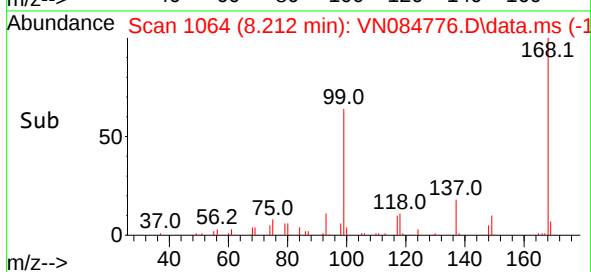
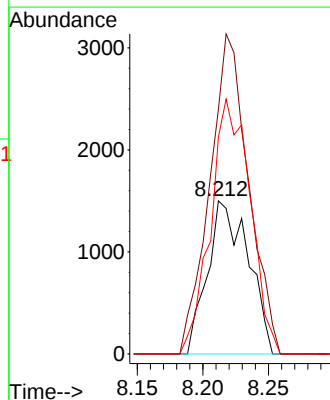
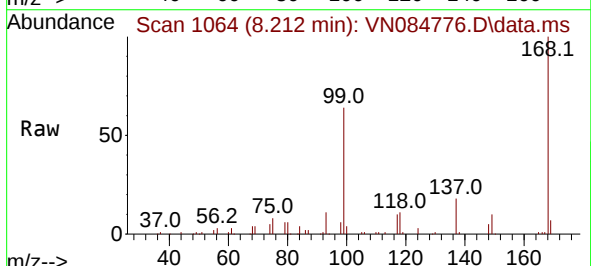
RT: 8.212 min Scan# 1064

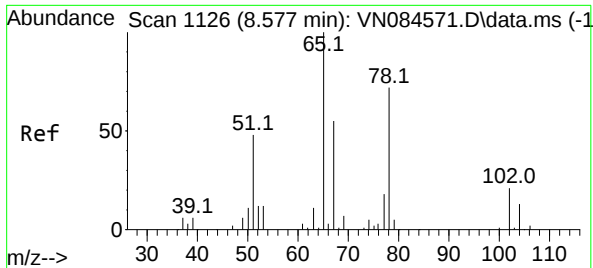
Delta R.T. -0.041 min

Lab File: VN084776.D

Acq: 11 Nov 2024 16:54

Tgt Ion:	56	Resp:	3249
Ion	Ratio	Lower	Upper
56	100		
69	159.9	23.8	35.6#
84	141.8	68.8	103.2#





#33

1,2-Dichloroethane-d4

Concen: 48.589 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084776.D

Acq: 11 Nov 2024 16:54

Instrument :

MSVOA_N

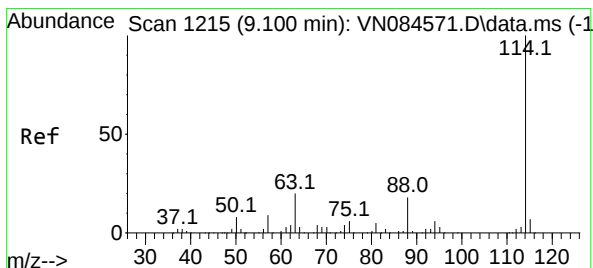
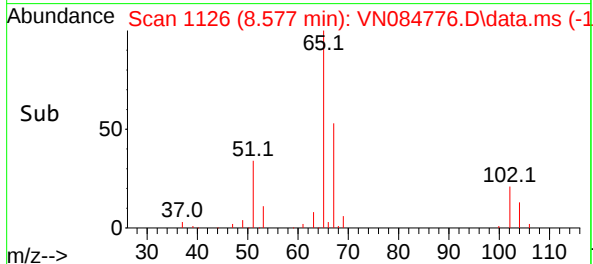
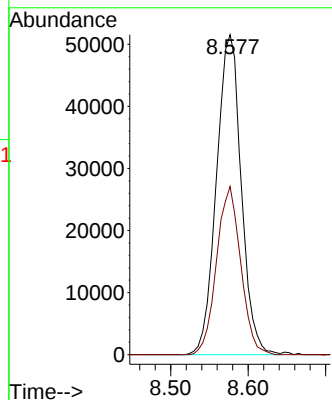
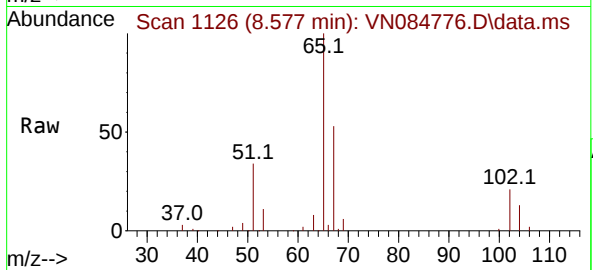
ClientSampleId :

Tgt Ion: 65 Resp: 114438

Ion Ratio Lower Upper

65 100

67 51.3 0.0 102.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN084776.D

Acq: 11 Nov 2024 16:54

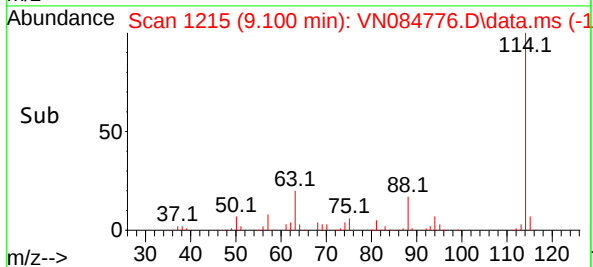
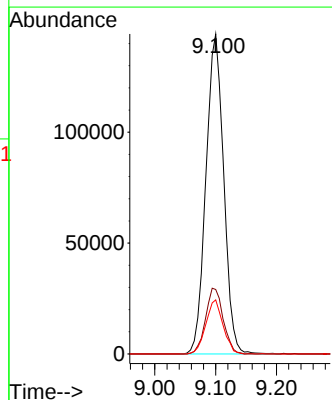
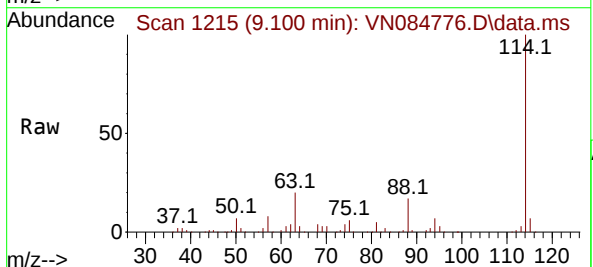
Tgt Ion: 114 Resp: 292513

Ion Ratio Lower Upper

114 100

63 20.1 0.0 43.8

88 16.9 0.0 31.6





#35

Dibromofluoromethane

Concen: 47.350 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

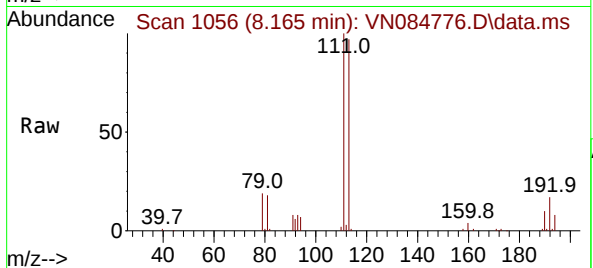
Lab File: VN084776.D

Acq: 11 Nov 2024 16:54

Instrument :

MSVOA_N

ClientSampleId :



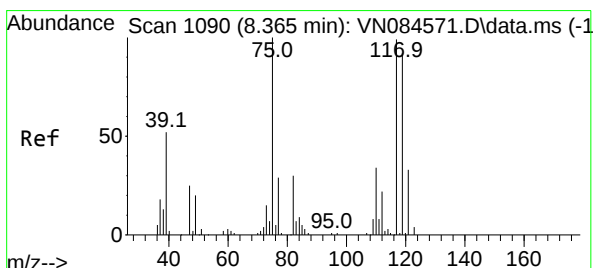
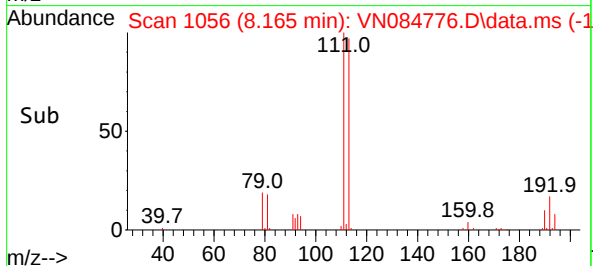
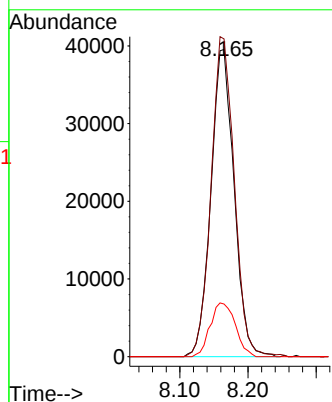
Tgt Ion:113 Resp: 93752

Ion Ratio Lower Upper

113 100

111 104.0 83.3 124.9

192 18.9 13.5 20.3



#36

1,1-Dichloropropene

Concen: 4.938 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084776.D

Acq: 11 Nov 2024 16:54

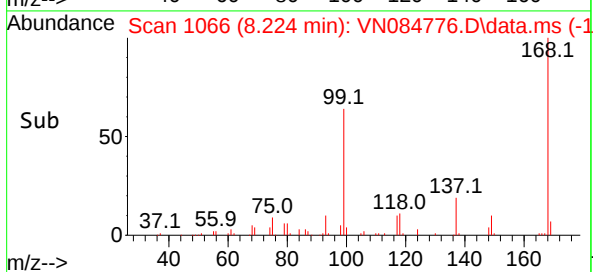
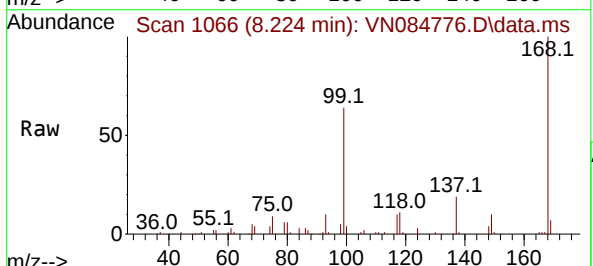
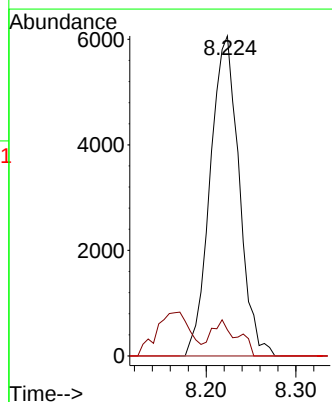
Tgt Ion: 75 Resp: 13559

Ion Ratio Lower Upper

75 100

110 10.2 16.9 50.7#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 0.996 ug/l

RT: 7.547 min Scan# 91

Delta R.T. -0.012 min

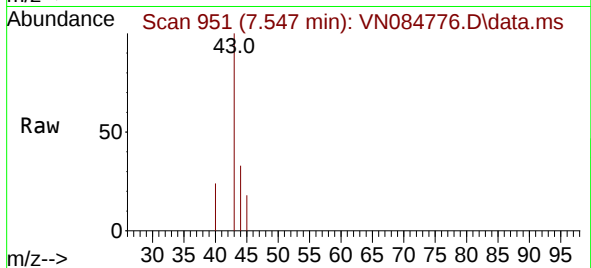
Lab File: VN084776.D

Acq: 11 Nov 2024 16:54

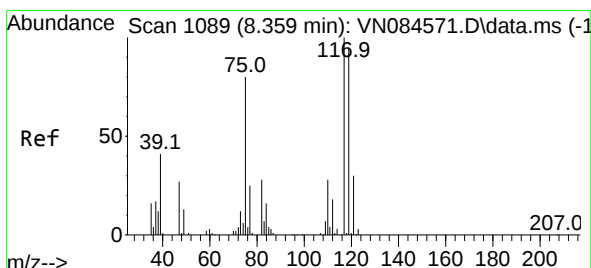
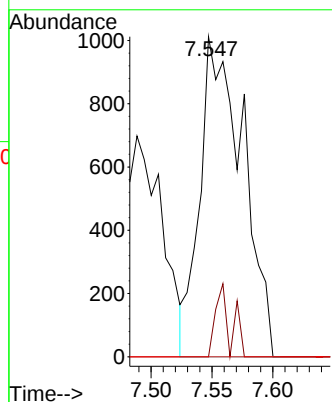
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	2481
Ion	Ratio	Lower	Upper
43	100		
61	7.9	10.7	16.1#
70	0.0	8.8	13.2#



#38

Carbon Tetrachloride

Concen: 5.528 ug/l

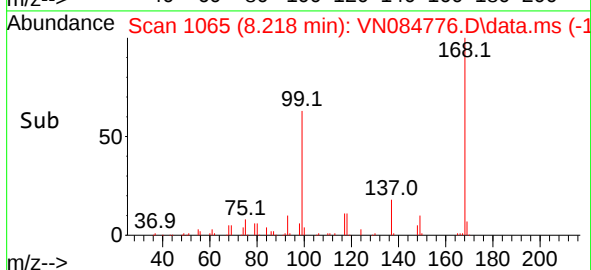
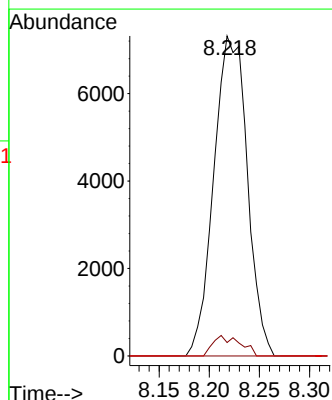
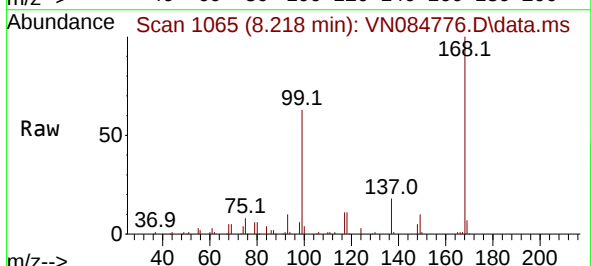
RT: 8.218 min Scan# 1065

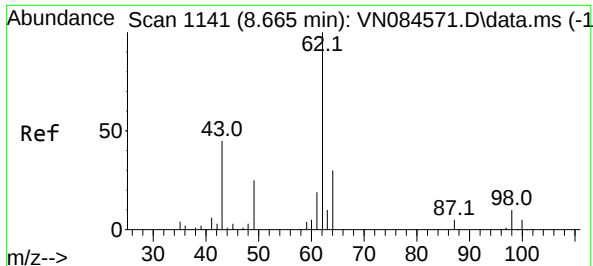
Delta R.T. -0.141 min

Lab File: VN084776.D

Acq: 11 Nov 2024 16:54

Tgt Ion:	117	Resp:	16967
Ion	Ratio	Lower	Upper
117	100		
119	4.2	78.7	118.1#
121	0.0	24.4	36.6#





#42

1,2-Dichloroethane

Concen: 0.219 ug/l

RT: 8.682 min Scan# 1144

Delta R.T. 0.011 min

Lab File: VN084776.D

Acq: 11 Nov 2024 16:54

Instrument :

MSVOA_N

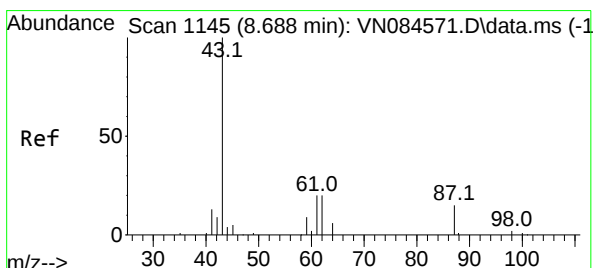
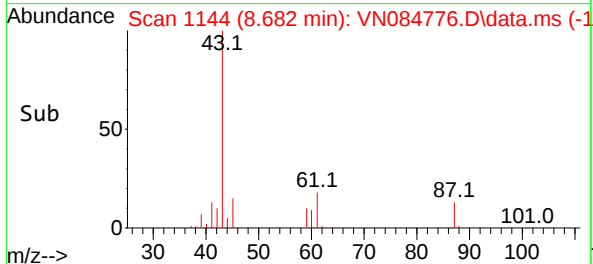
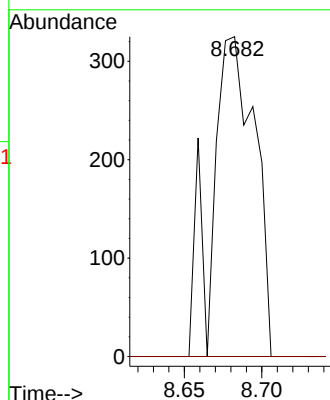
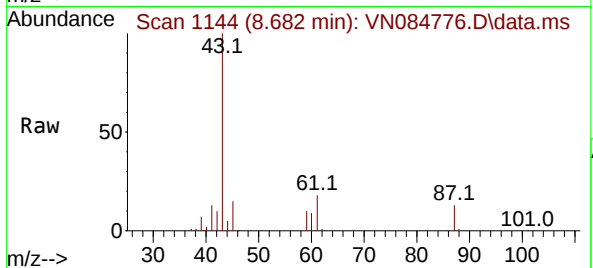
ClientSampleId :

Tgt Ion: 62 Resp: 626

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 28.597 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084776.D

Acq: 11 Nov 2024 16:54

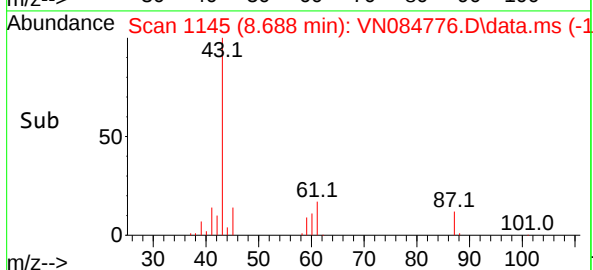
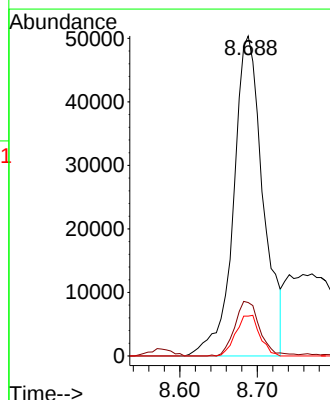
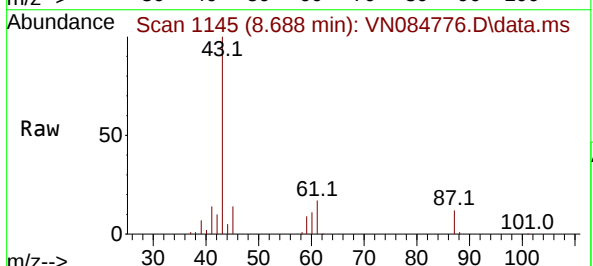
Tgt Ion: 43 Resp: 133524

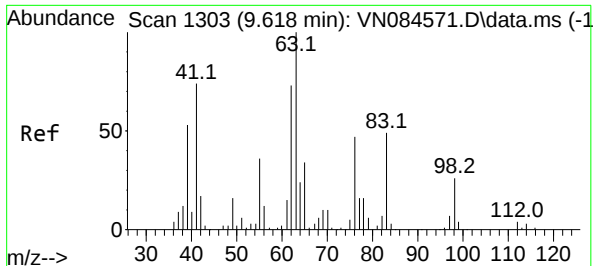
Ion Ratio Lower Upper

43 100

61 14.5 20.4 30.6#

87 10.3 10.3 15.5#





#45

1,2-Dichloropropane

Concen: 0.635 ug/l

RT: 9.747 min Scan# 11

Delta R.T. 0.129 min

Lab File: VN084776.D

Acq: 11 Nov 2024 16:54

Instrument :

MSVOA_N

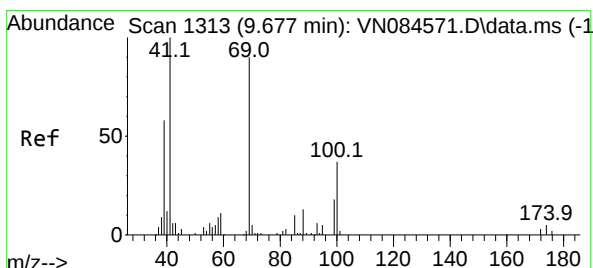
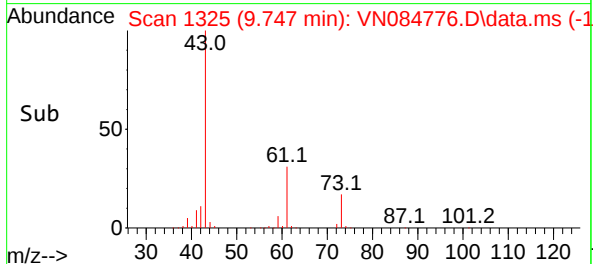
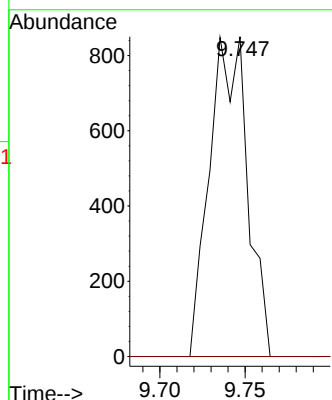
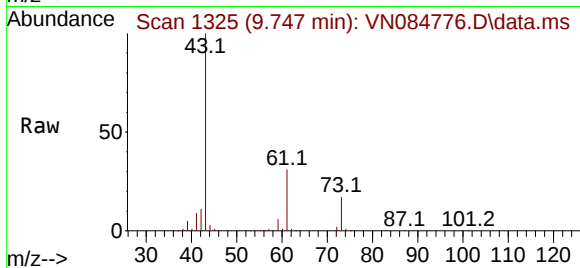
ClientSampleId :

Tgt Ion: 63 Resp: 1313

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



#48

Methyl methacrylate

Concen: 42.010 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.065 min

Lab File: VN084776.D

Acq: 11 Nov 2024 16:54

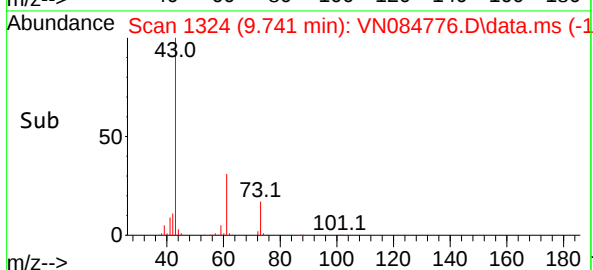
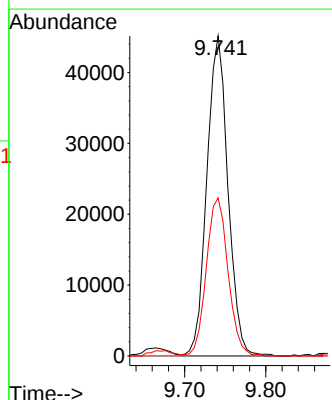
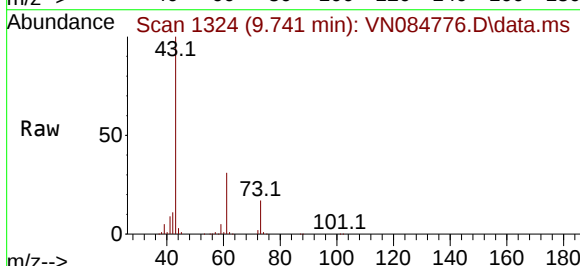
Tgt Ion: 41 Resp: 81456

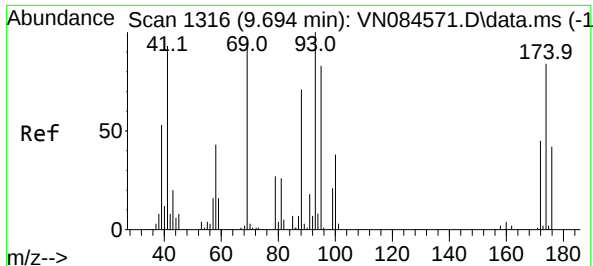
Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 50.8 45.8 68.6





#49

1,4-Dioxane

Concen: 2.008 ug/l

RT: 9.741 min Scan# 1

Delta R.T. 0.047 min

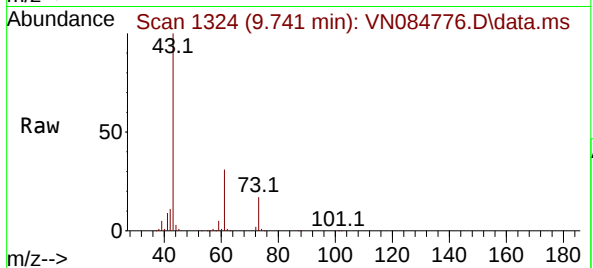
Lab File: VN084776.D

Acq: 11 Nov 2024 16:54

Instrument :

MSVOA_N

ClientSampleId :



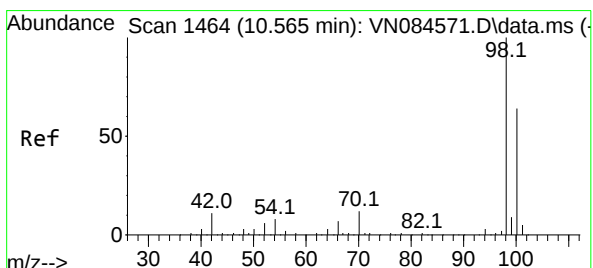
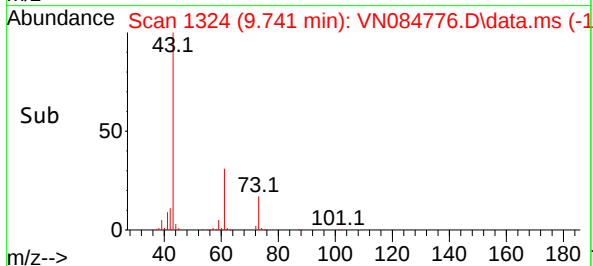
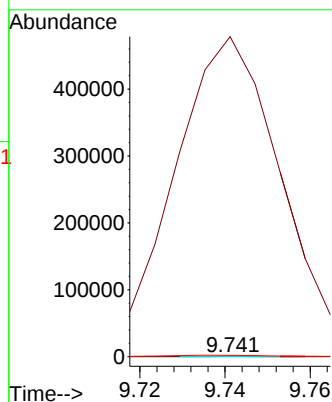
Tgt Ion: 88 Resp: 69

Ion Ratio Lower Upper

88 100

43 1236373.9 25.3 37.9#

58 6081.2 56.4 84.6#



#50

Toluene-d8

Concen: 47.175 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084776.D

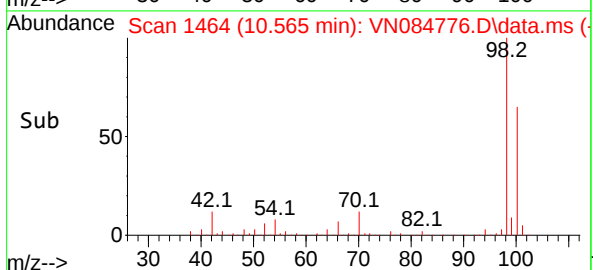
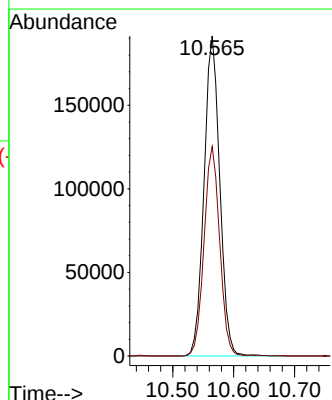
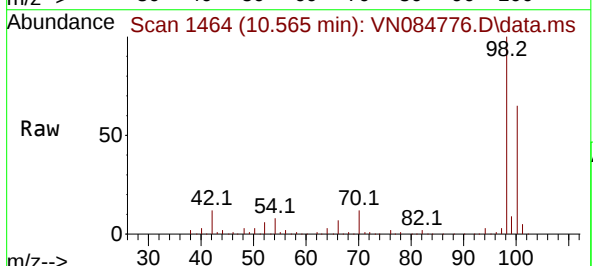
Acq: 11 Nov 2024 16:54

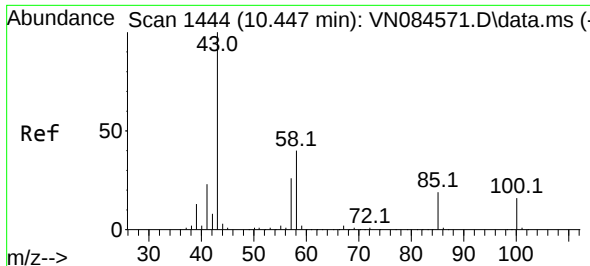
Tgt Ion: 98 Resp: 344073

Ion Ratio Lower Upper

98 100

100 64.9 52.7 79.1

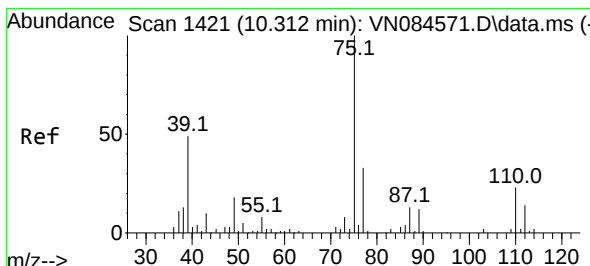
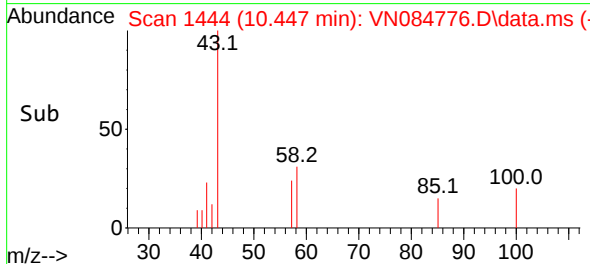
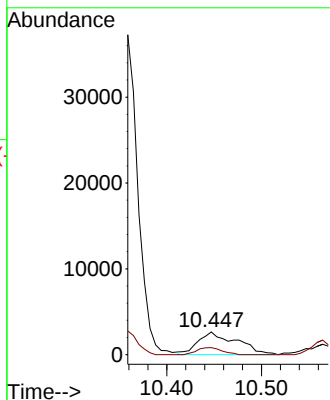
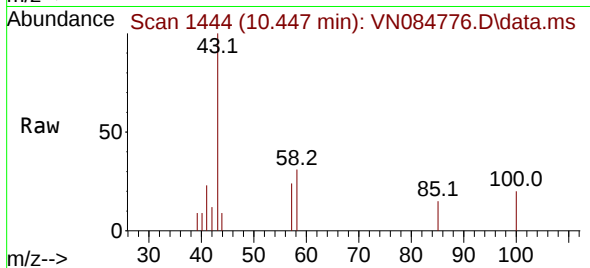




#51
4-Methyl-2-Pentanone
Concen: 3.157 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

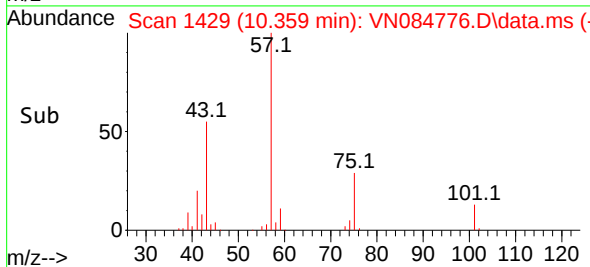
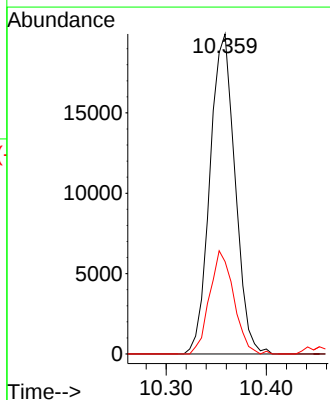
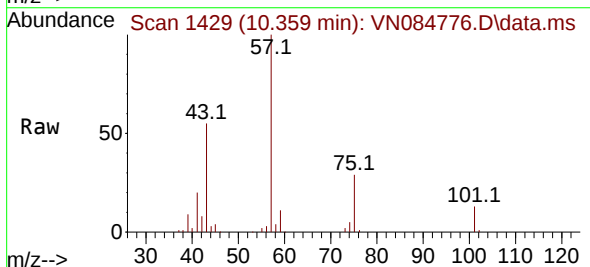
Instrument :
MSVOA_N
ClientSampleId :

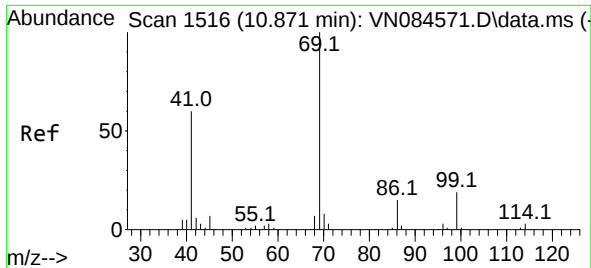
Tgt Ion: 43 Resp: 7499
Ion Ratio Lower Upper
43 100
58 20.1 31.6 47.4#



#54
cis-1,3-Dichloropropene
Concen: 10.276 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

Tgt Ion: 75 Resp: 34640
Ion Ratio Lower Upper
75 100
77 0.0 24.2 36.2#
39 28.9 38.7 58.1#

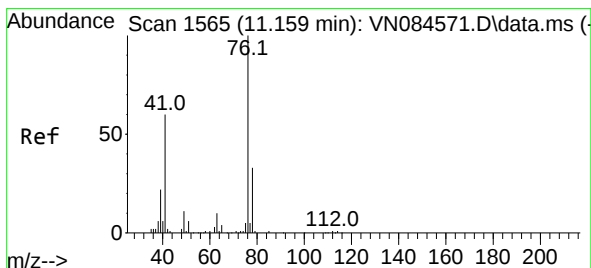
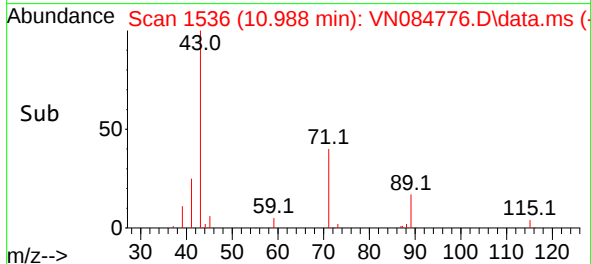
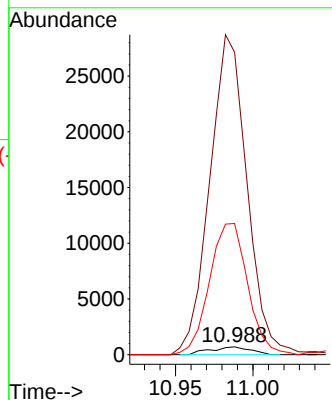
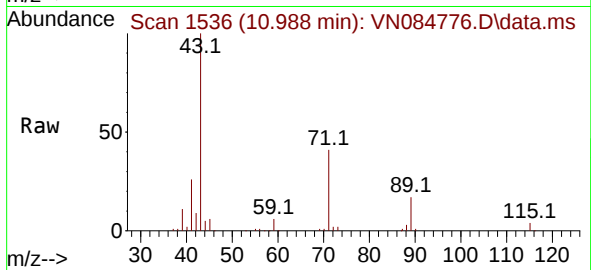




#56
Ethyl methacrylate
Concen: 0.452 ug/l
RT: 10.988 min Scan# 1536
Delta R.T. 0.118 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

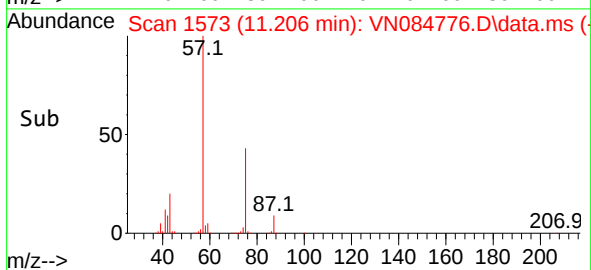
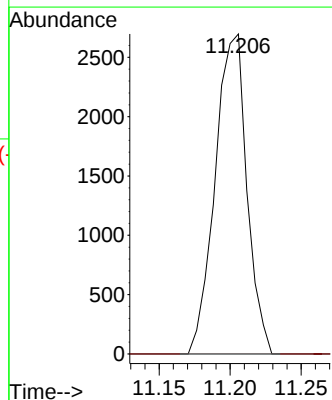
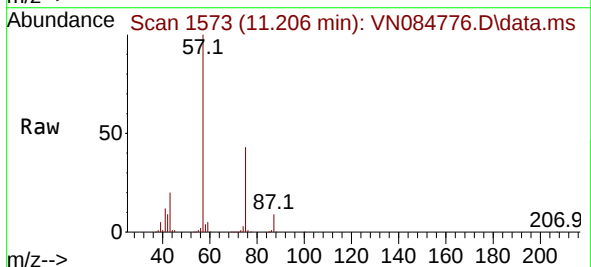
Instrument :
MSVOA_N
ClientSampleId :

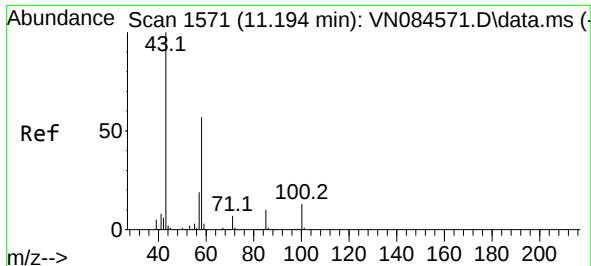
Tgt Ion: 69 Resp: 1270
Ion Ratio Lower Upper
69 100
41 3786.0 53.3 79.9#
39 1589.2 28.8 43.2#



#57
1,3-Dichloropropane
Concen: 1.258 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.047 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

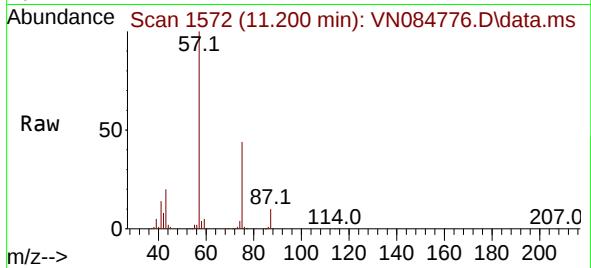
Tgt Ion: 76 Resp: 4194
Ion Ratio Lower Upper
76 100
78 0.0 25.8 38.6#



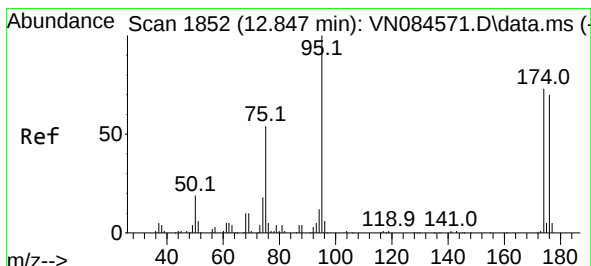
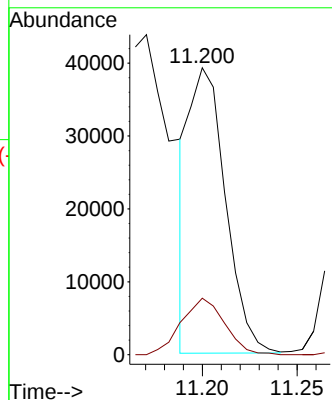
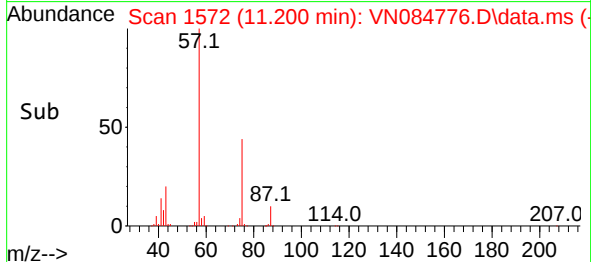


#59
2-Hexanone
Concen: 30.416 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

Instrument :
MSVOA_N
ClientSampleId :

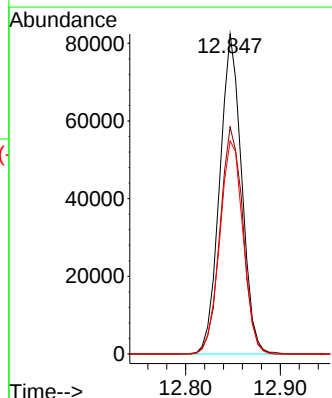
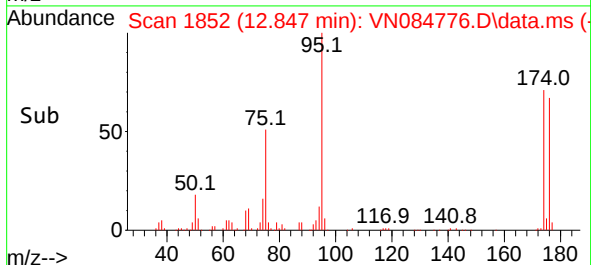
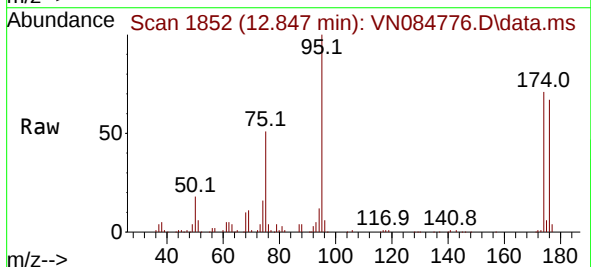


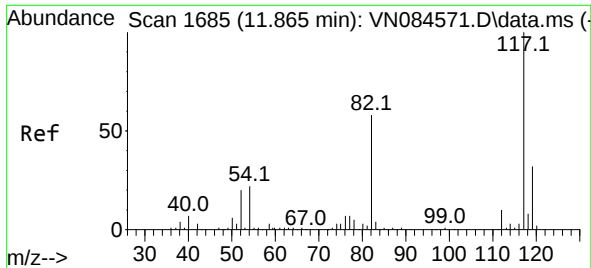
Tgt Ion: 43 Resp: 52582
Ion Ratio Lower Upper
43 100
58 23.4 27.3 81.8#



#62
4-Bromofluorobenzene
Concen: 48.568 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

Tgt Ion: 95 Resp: 132389
Ion Ratio Lower Upper
95 100
174 74.2 0.0 145.2
176 70.9 0.0 140.0

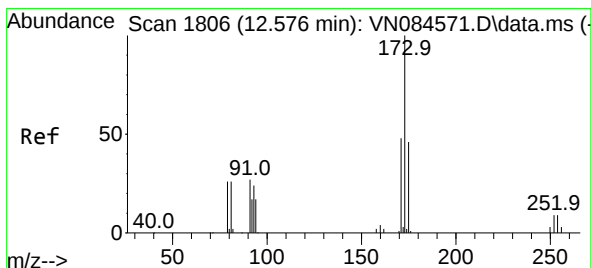
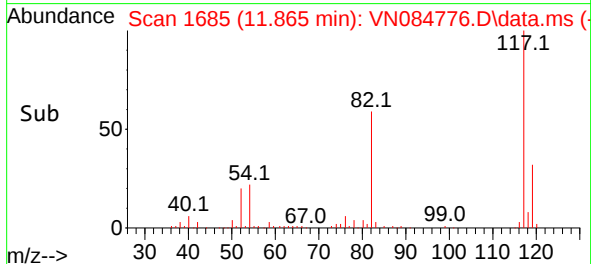
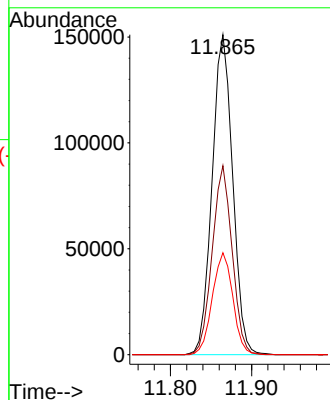
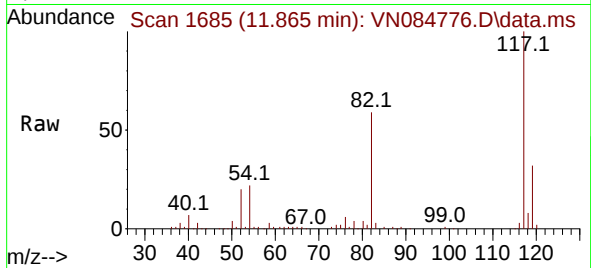




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

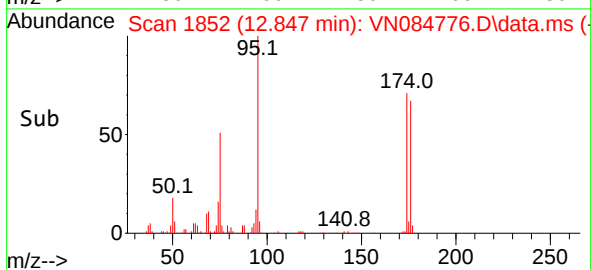
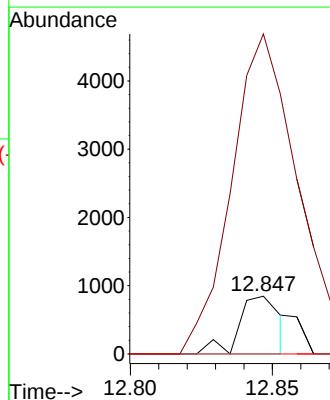
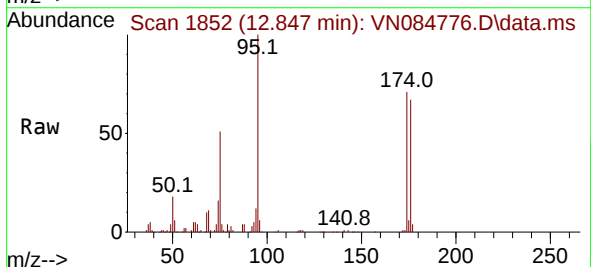
Instrument :
MSVOA_N
ClientSampleId :

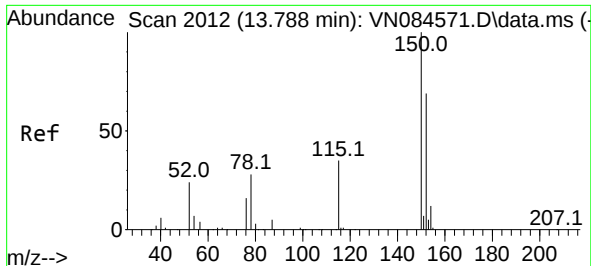
Tgt Ion:117 Resp: 266028
Ion Ratio Lower Upper
117 100
82 59.0 47.2 70.8
119 31.9 25.4 38.0



#71
Bromoform
Concen: 0.546 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.270 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

Tgt Ion:173 Resp: 851
Ion Ratio Lower Upper
173 100
175 679.0 23.5 70.6#
254 0.0 0.0 0.0

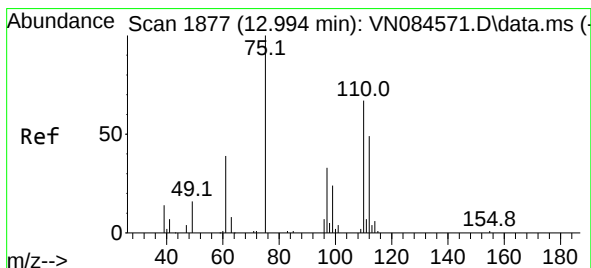
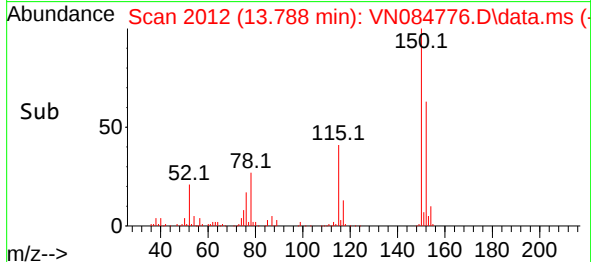
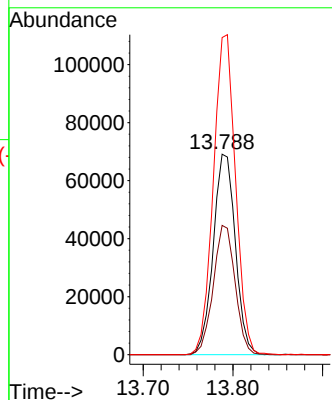
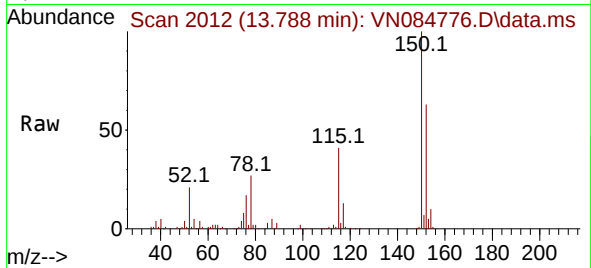




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

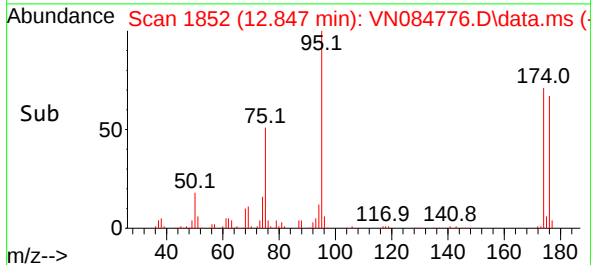
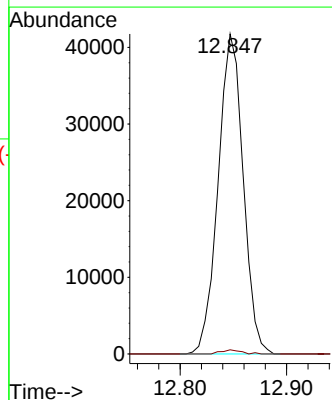
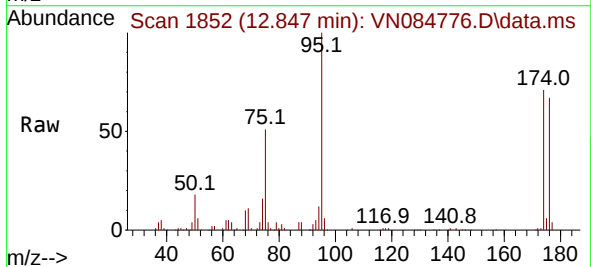
Instrument :
MSVOA_N
ClientSampleId :

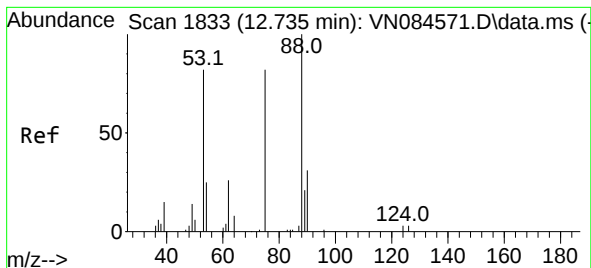
Tgt Ion:152 Resp: 118377
Ion Ratio Lower Upper
152 100
115 63.7 31.3 93.9
150 159.7 0.0 349.8



#76
1,2,3-Trichloropropane
Concen: 28.780 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

Tgt Ion: 75 Resp: 68103
Ion Ratio Lower Upper
75 100
77 1.0 96.9 290.7#

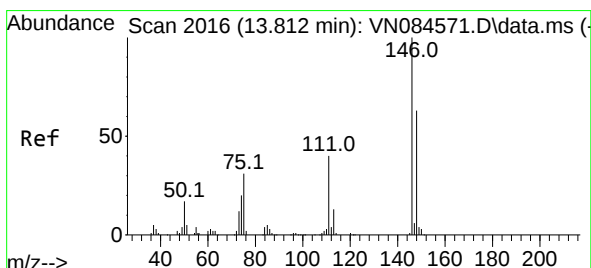
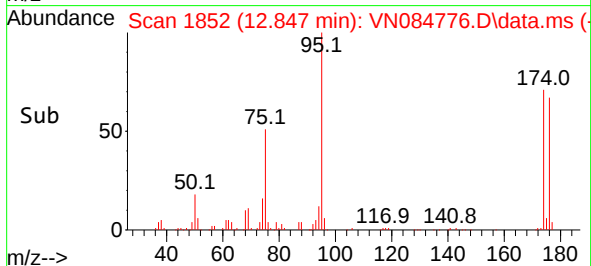
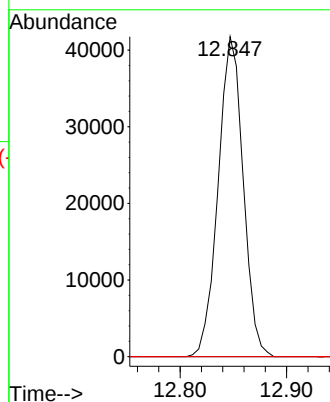
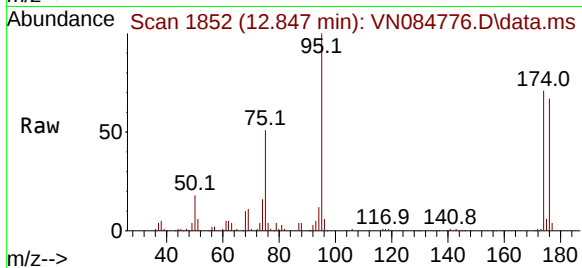




#81
trans-1,4-Dichloro-2-butene
Concen: 68.279 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion: 75 Resp: 68103
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#



#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.817 min Scan# 2017
Delta R.T. 0.005 min
Lab File: VN084776.D
Acq: 11 Nov 2024 16:54

Tgt Ion:146 Resp: 307
Ion Ratio Lower Upper
146 100
111 0.0 21.2 63.6#
148 22.5 31.9 95.9#

