

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN103024\
 Data File : VN084607.D
 Acq On : 31 Oct 2024 07:46
 Operator : JC\MD
 Sample : PB164501ZHE#16
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 39 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Nov 01 06:19:45 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)

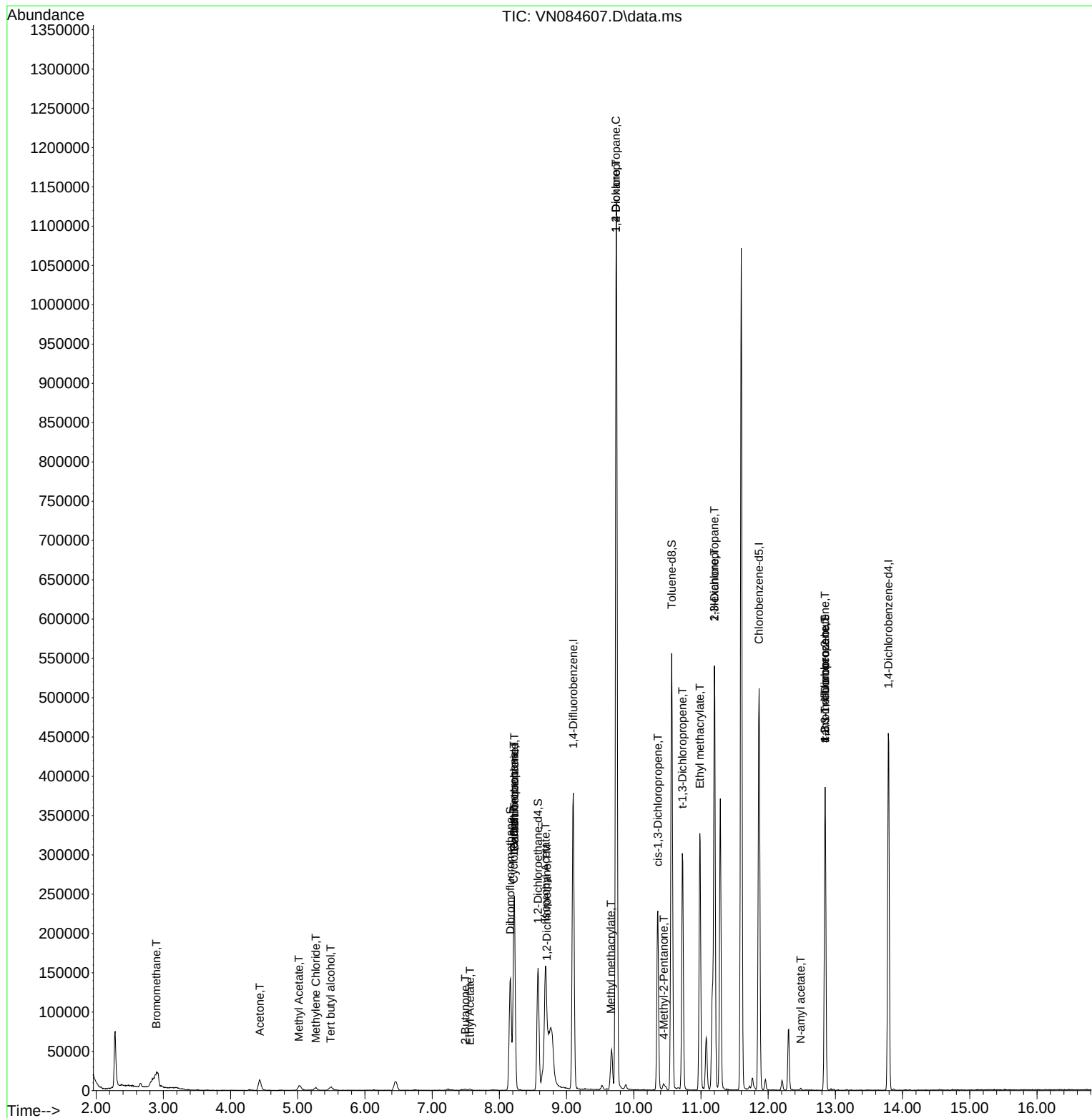
Internal Standards						
1) Pentafluorobenzene	8.224	168	173914	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	322125	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	291140	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	123523	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	129490	51.551	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.100%			
35) Dibromofluoromethane	8.165	113	102414	46.970	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 93.940%			
50) Toluene-d8	10.565	98	377424	46.991	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 93.980%			
62) 4-Bromofluorobenzene	12.847	95	133845	44.589	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 89.180%			
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1199	Below Cal	#	41
5) Bromomethane	2.895	94	248	0.218	ug/l #	4
6) Chloroethane	3.095	64	549	Below Cal	#	45
11) Tert butyl alcohol	5.489	59	4224	12.740	ug/l #	73
16) Acetone	4.436	43	26913	34.634	ug/l	96
18) Methyl Acetate	5.018	43	14002	1.403	ug/l #	67
20) Methylene Chloride	5.271	84	2574	1.165	ug/l #	77
25) 2-Butanone	7.494	43	3145	2.684	ug/l	97
31) Cyclohexane	8.212	56	4043	1.166	ug/l #	37
36) 1,1-Dichloropropene	8.218	75	14968	4.950	ug/l #	50
37) Ethyl Acetate	7.565	43	3212	1.171	ug/l #	83
38) Carbon Tetrachloride	8.224	117	19410	5.743	ug/l #	15
42) 1,2-Dichloroethane	8.706	62	994	0.316	ug/l #	75
43) Isopropyl Acetate	8.688	43	221324	43.541	ug/l #	77
45) 1,2-Dichloropropane	9.735	63	1317	0.578	ug/l #	44
48) Methyl methacrylate	9.659	41	3639	1.704	ug/l #	42
49) 1,4-Dioxane	9.735	88	139	3.674	ug/l #	1
51) 4-Methyl-2-Pentanone	10.447	43	9148	3.498	ug/l #	70
53) t-1,3-Dichloropropene	10.723	75	754	0.215	ug/l	99
54) cis-1,3-Dichloropropene	10.359	75	40724	10.970	ug/l #	64
56) Ethyl methacrylate	10.982	69	1536	0.496	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	5347	1.456	ug/l #	42
59) 2-Hexanone	11.200	43	67452	35.431	ug/l #	55
74) N-amyl acetate	12.482	43	1331	0.361	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	69065	27.971	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	69065	66.358	ug/l #	11
88) 1,4-Dichlorobenzene	13.806	146	54	Below Cal	#	1

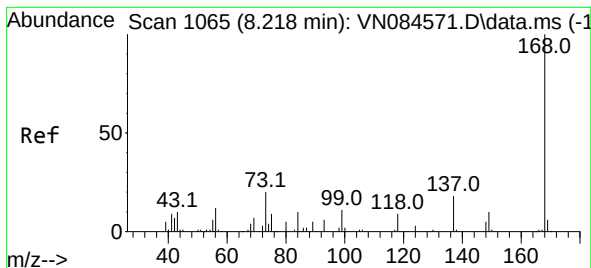
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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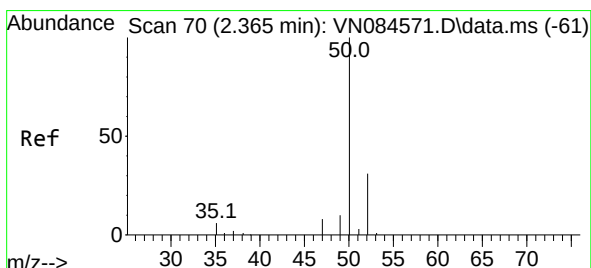
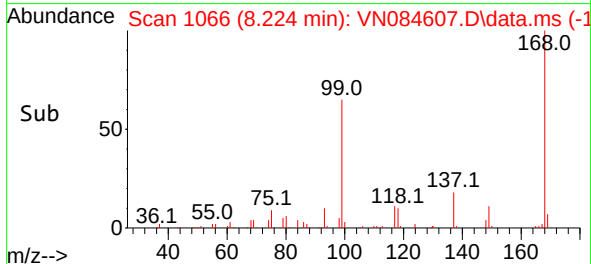
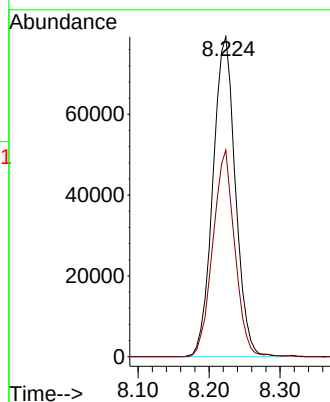
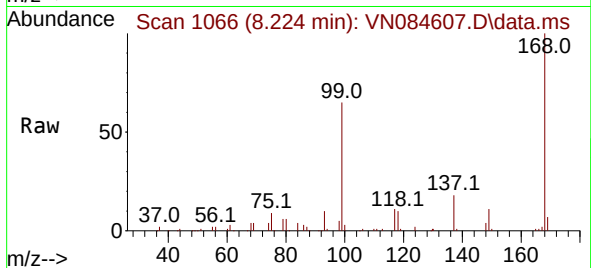




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. -0.000 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

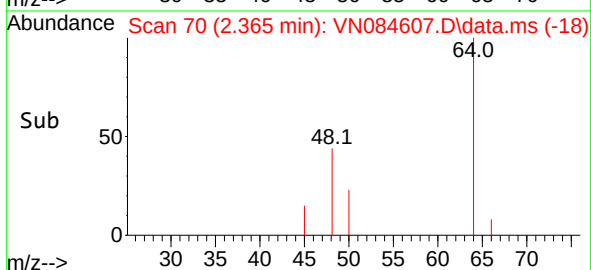
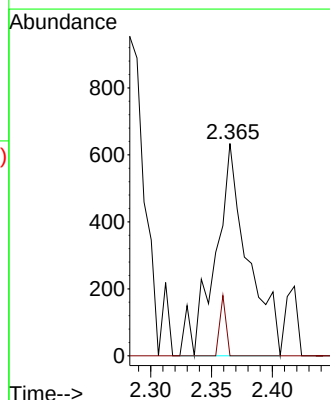
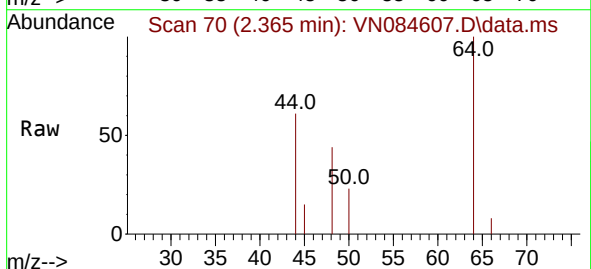
Instrument :
MSVOA_N
ClientSampleId :

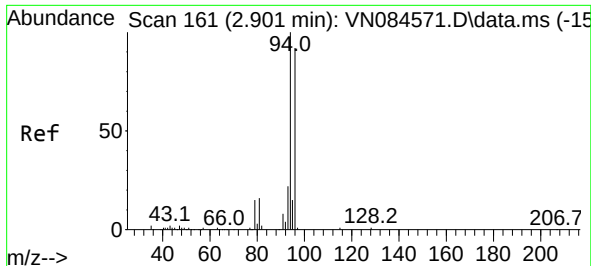
Tgt Ion:168 Resp: 173914
Ion Ratio Lower Upper
168 100
99 64.6 54.2 81.2



#3
Chloromethane
Concen: Below Cal
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

Tgt Ion: 50 Resp: 1199
Ion Ratio Lower Upper
50 100
52 0.0 26.8 40.2#

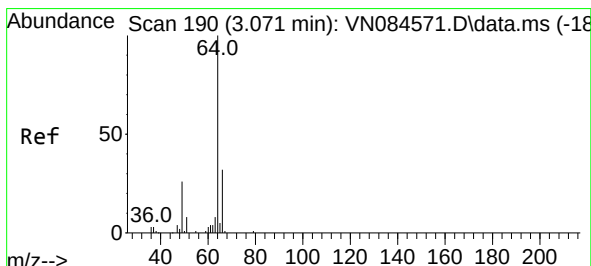
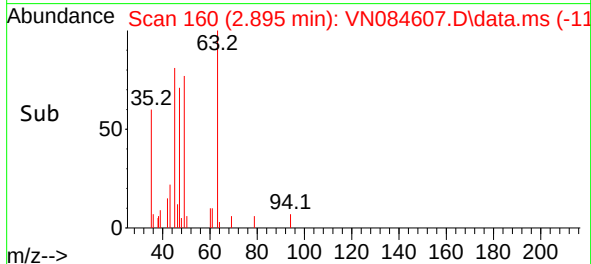
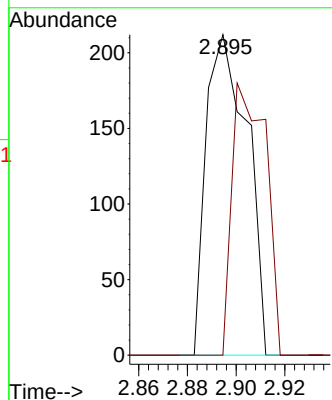
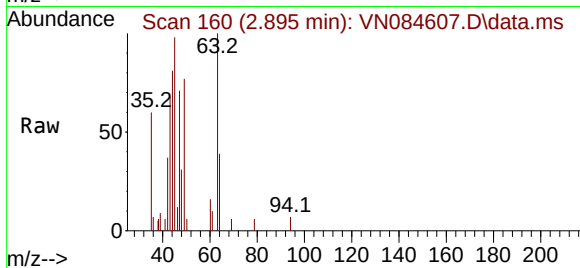




#5
Bromomethane
Concen: 0.218 ug/l
RT: 2.895 min Scan# 11
Delta R.T. -0.058 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

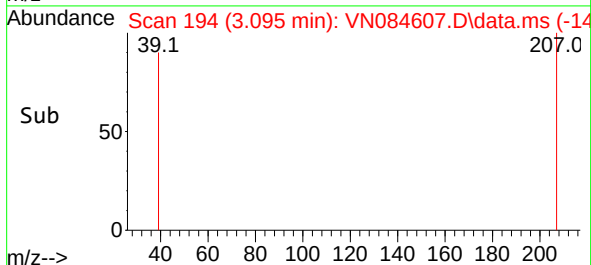
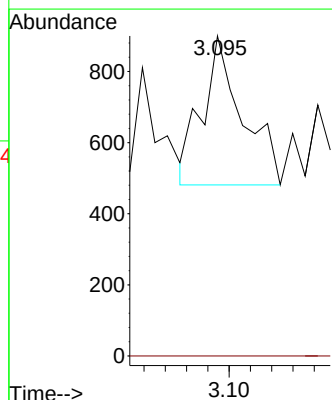
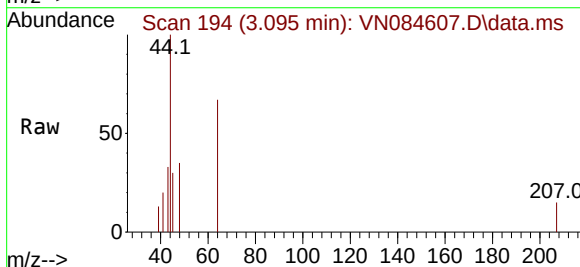
Instrument :
MSVOA_N
ClientSampleId :

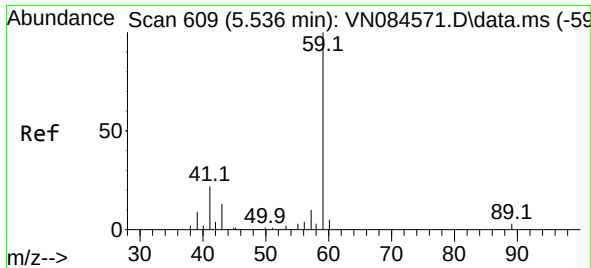
Tgt Ion: 94 Resp: 248
Ion Ratio Lower Upper
94 100
96 0.0 72.9 109.3#



#6
Chloroethane
Concen: Below Cal
RT: 3.095 min Scan# 194
Delta R.T. -0.023 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

Tgt Ion: 64 Resp: 549
Ion Ratio Lower Upper
64 100
66 0.0 23.5 35.3#

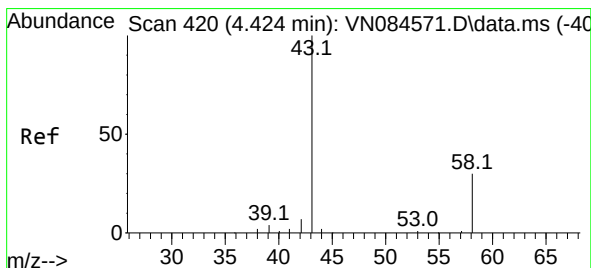
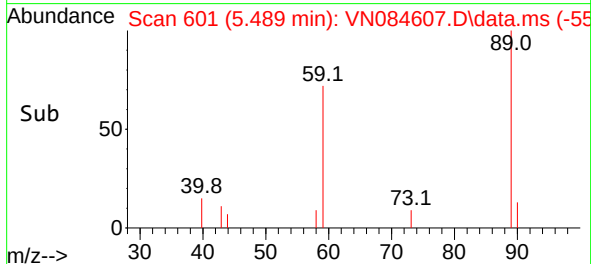
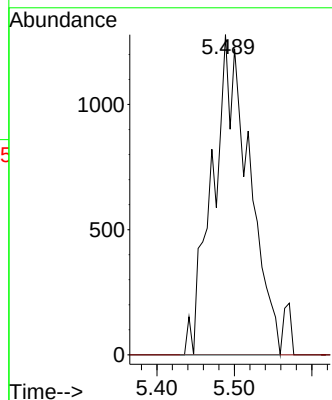
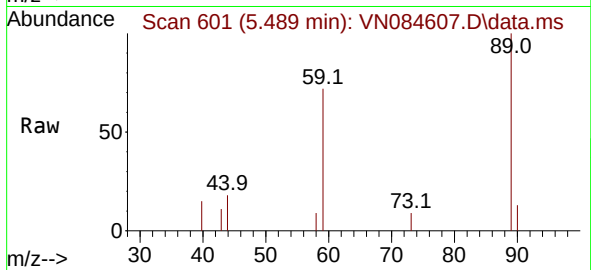




#11
Tert butyl alcohol
Concen: 12.740 ug/l
RT: 5.489 min Scan# 609
Delta R.T. -0.035 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

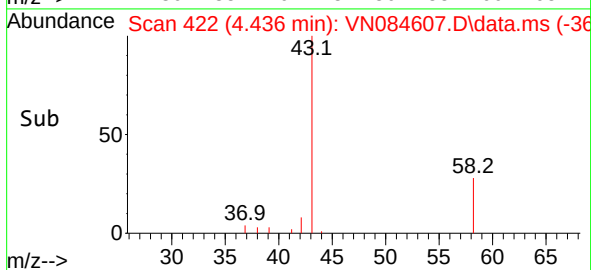
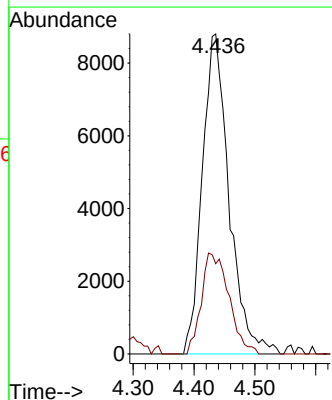
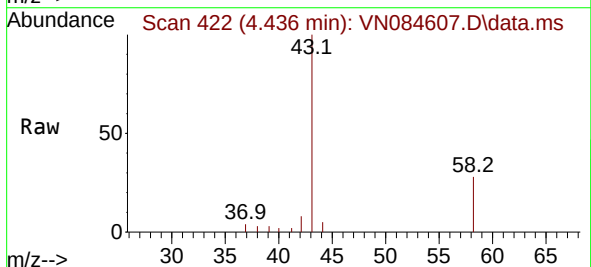
Instrument :
MSVOA_N
ClientSampleId :

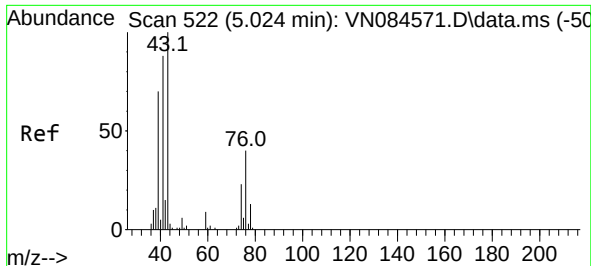
Tgt Ion: 59 Resp: 4224
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#16
Acetone
Concen: 34.634 ug/l
RT: 4.436 min Scan# 422
Delta R.T. 0.012 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

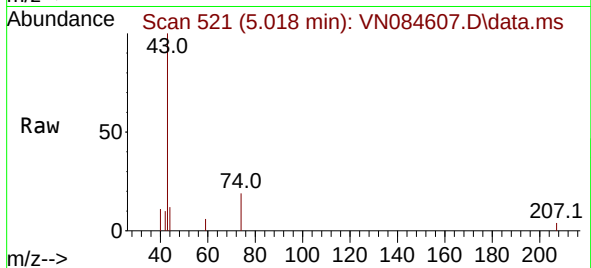
Tgt Ion: 43 Resp: 26913
Ion Ratio Lower Upper
43 100
58 28.2 24.4 36.6



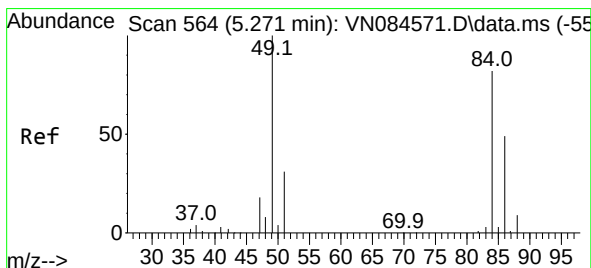
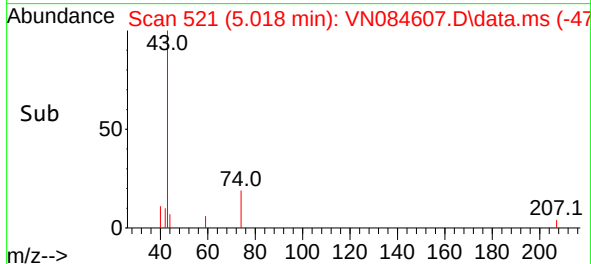
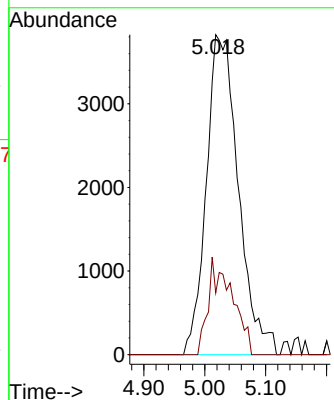


#18
Methyl Acetate
Concen: 1.403 ug/l
RT: 5.018 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

Instrument :
MSVOA_N
ClientSampleId :

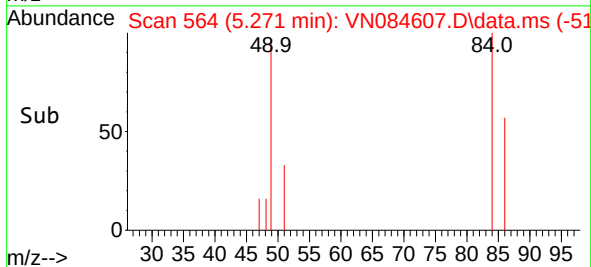
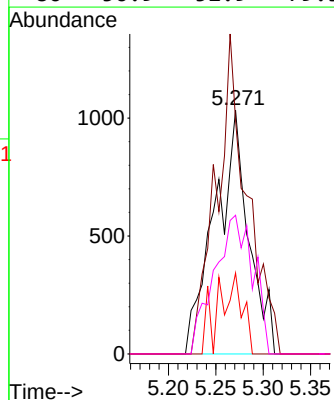
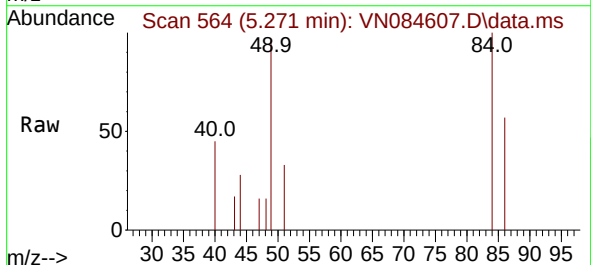


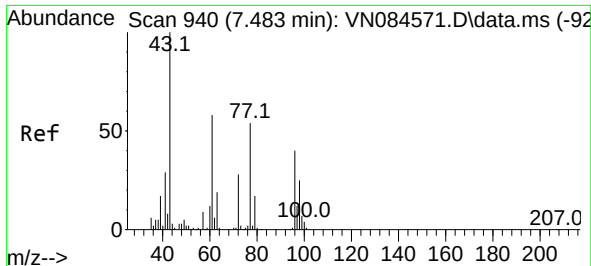
Tgt Ion: 43 Resp: 14002
Ion Ratio Lower Upper
43 100
74 7.9 19.2 28.8#



#20
Methylene Chloride
Concen: 1.165 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.006 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

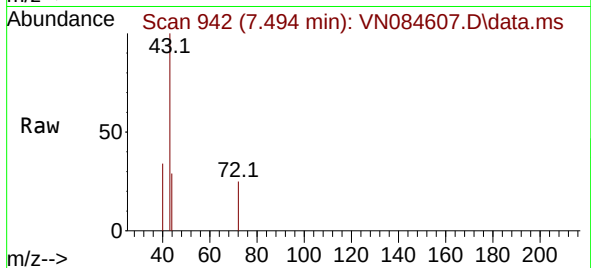
Tgt Ion: 84 Resp: 2574
Ion Ratio Lower Upper
84 100
49 95.8 107.2 160.8#
51 33.2 31.8 47.8
86 56.9 52.9 79.3



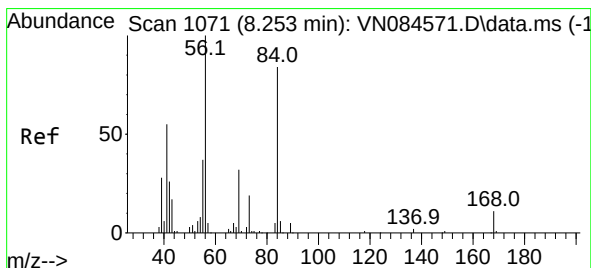
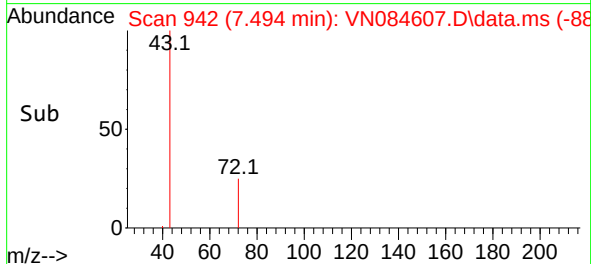
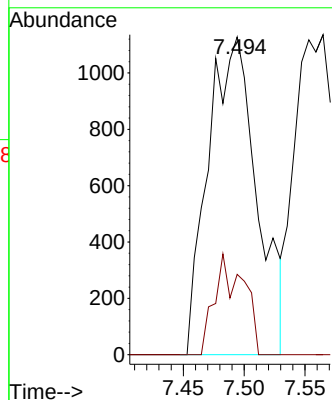


#25
2-Butanone
Concen: 2.684 ug/l
RT: 7.494 min Scan# 94
Delta R.T. 0.012 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

Instrument :
MSVOA_N
ClientSampleId :

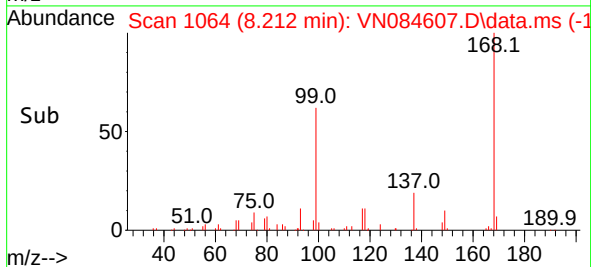
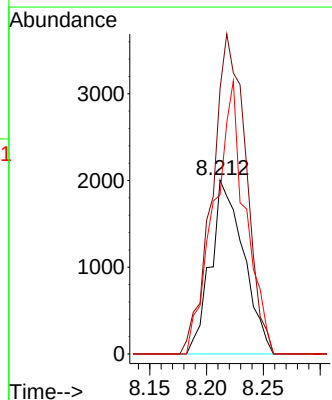
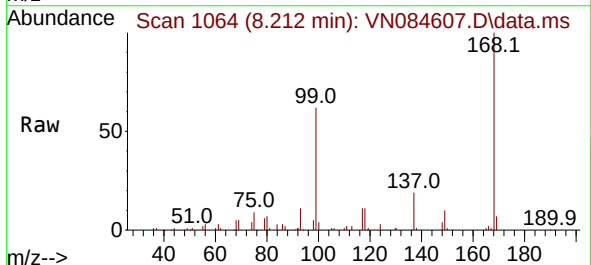


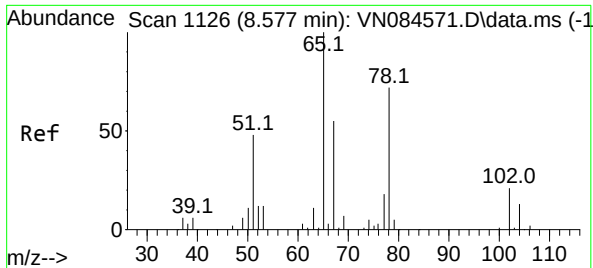
Tgt Ion: 43 Resp: 3145
Ion Ratio Lower Upper
43 100
72 25.3 21.4 32.2



#31
Cyclohexane
Concen: 1.166 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.041 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

Tgt Ion: 56 Resp: 4043
Ion Ratio Lower Upper
56 100
69 152.5 23.8 35.6#
84 91.5 68.8 103.2





#33

1,2-Dichloroethane-d4

Concen: 51.551 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN084607.D

Acq: 31 Oct 2024 07:46

Instrument :

MSVOA_N

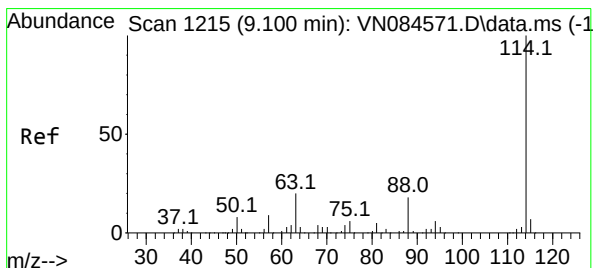
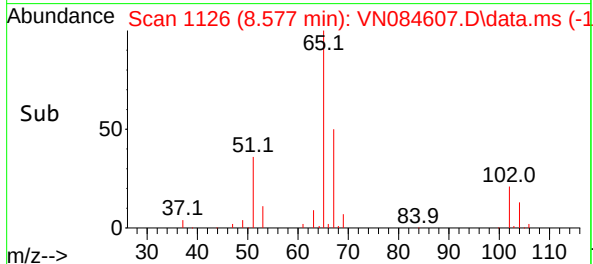
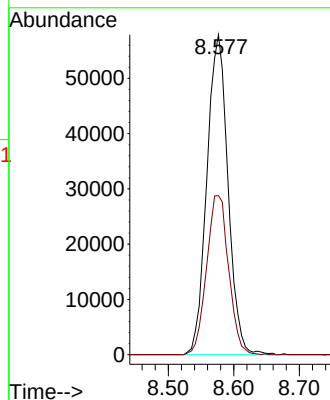
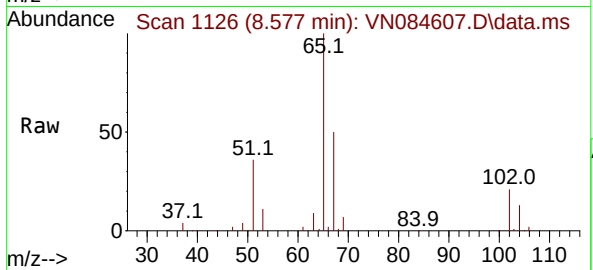
ClientSampleId :

Tgt Ion: 65 Resp: 129490

Ion Ratio Lower Upper

65 100

67 51.9 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: VN084607.D

Acq: 31 Oct 2024 07:46

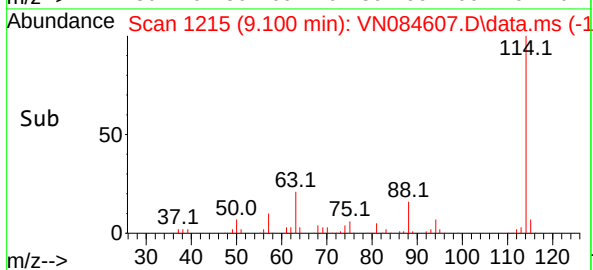
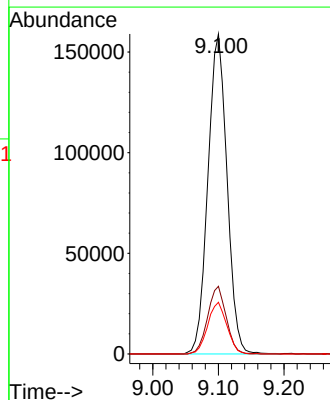
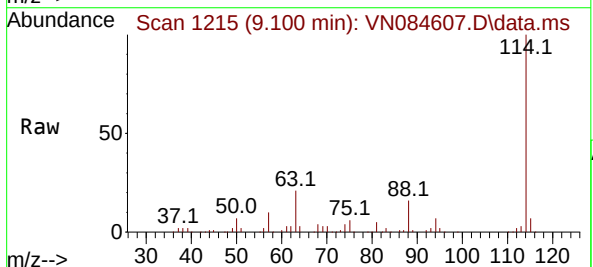
Tgt Ion: 114 Resp: 322125

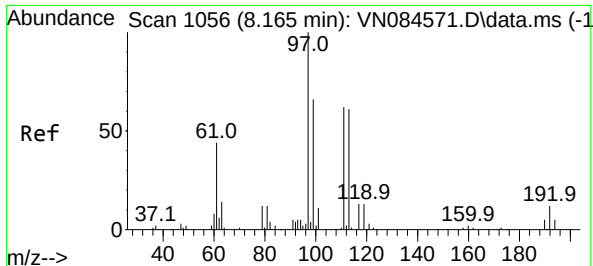
Ion Ratio Lower Upper

114 100

63 21.1 0.0 43.8

88 16.1 0.0 31.6





#35

Dibromofluoromethane

Concen: 46.970 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN084607.D

Acq: 31 Oct 2024 07:46

Instrument :

MSVOA_N

ClientSampleId :

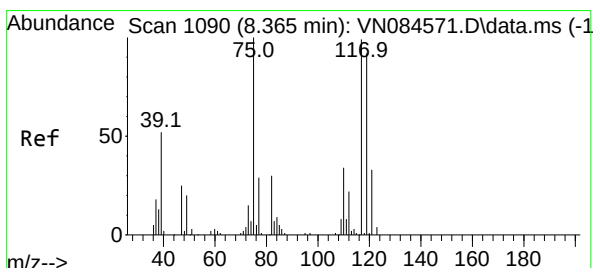
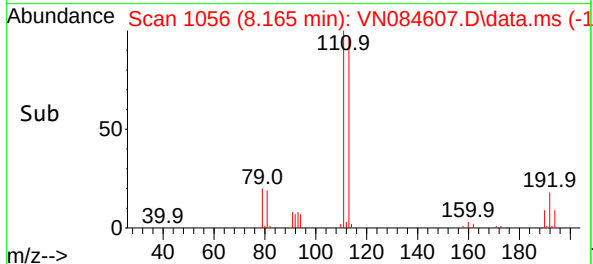
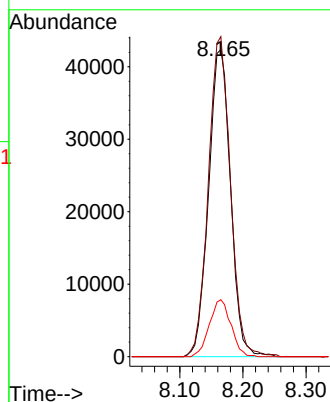
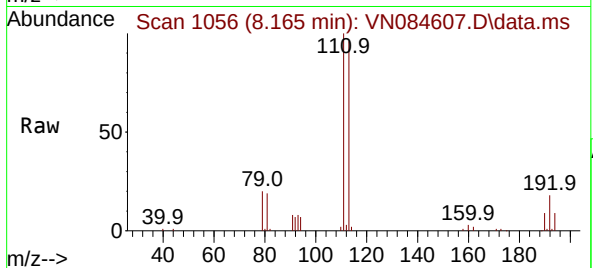
Tgt Ion:113 Resp: 102414

Ion Ratio Lower Upper

113 100

111 104.5 83.3 124.9

192 18.2 13.5 20.3



#36

1,1-Dichloropropene

Concen: 4.950 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.153 min

Lab File: VN084607.D

Acq: 31 Oct 2024 07:46

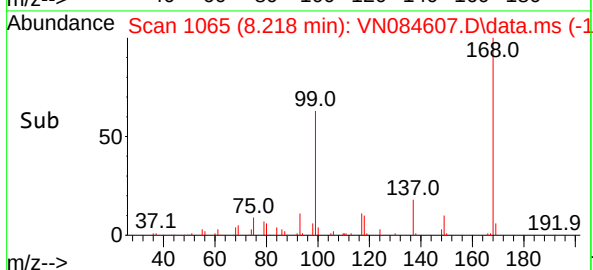
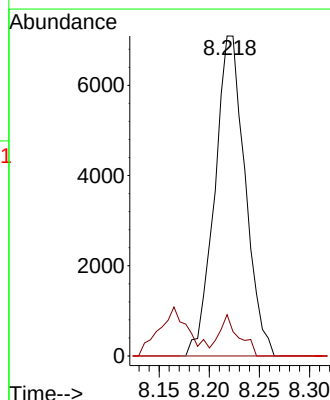
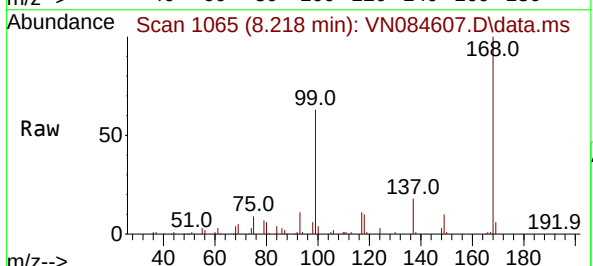
Tgt Ion: 75 Resp: 14968

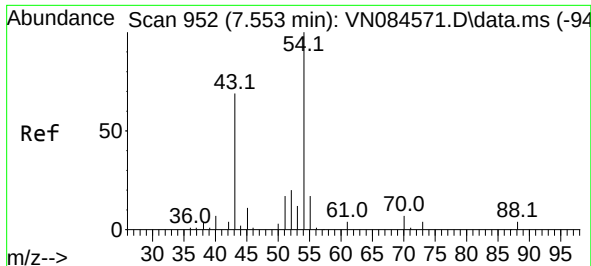
Ion Ratio Lower Upper

75 100

110 8.2 16.9 50.7#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.171 ug/l

RT: 7.565 min Scan# 91

Delta R.T. 0.006 min

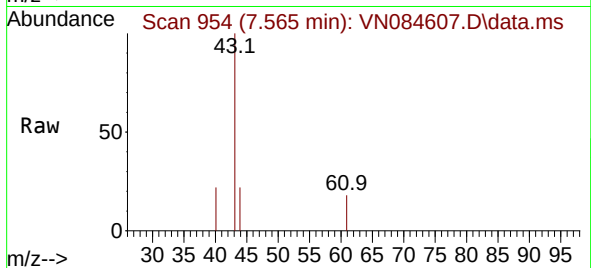
Lab File: VN084607.D

Acq: 31 Oct 2024 07:46

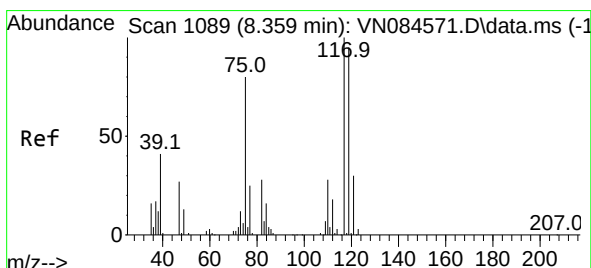
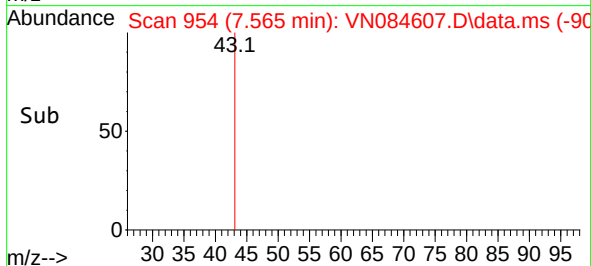
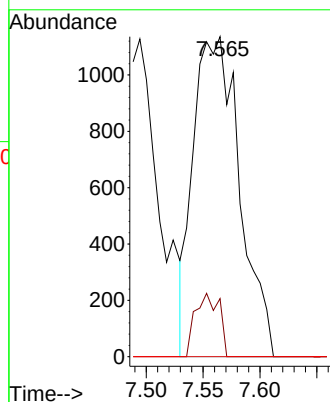
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	43	Resp:	3212
Ion	Ratio	Lower	Upper
43	100		
61	10.2	10.7	16.1#
70	0.0	8.8	13.2#



#38

Carbon Tetrachloride

Concen: 5.743 ug/l

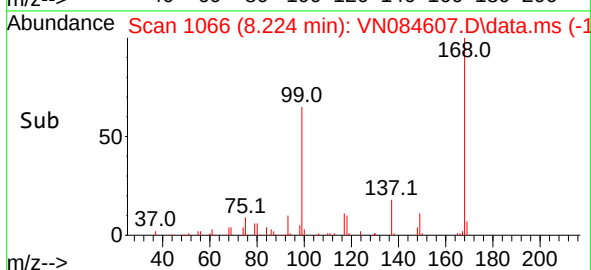
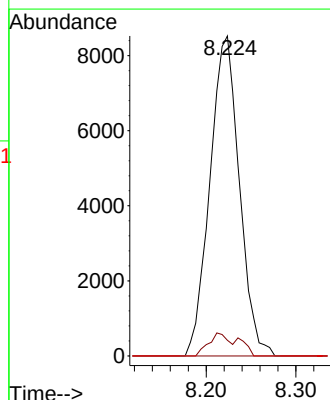
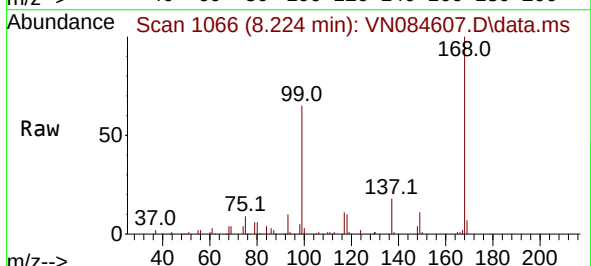
RT: 8.224 min Scan# 1066

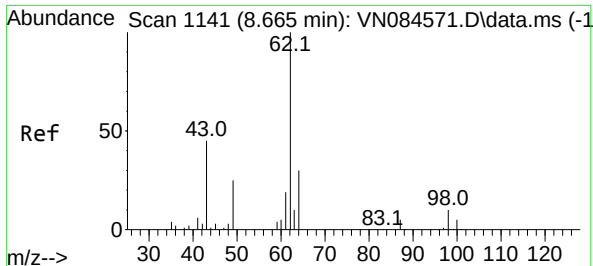
Delta R.T. -0.135 min

Lab File: VN084607.D

Acq: 31 Oct 2024 07:46

Tgt Ion:	117	Resp:	19410
Ion	Ratio	Lower	Upper
117	100		
119	4.9	78.7	118.1#
121	0.0	24.4	36.6#





#42

1,2-Dichloroethane

Concen: 0.316 ug/l

RT: 8.706 min Scan# 1148

Delta R.T. 0.035 min

Lab File: VN084607.D

Acq: 31 Oct 2024 07:46

Instrument :

MSVOA_N

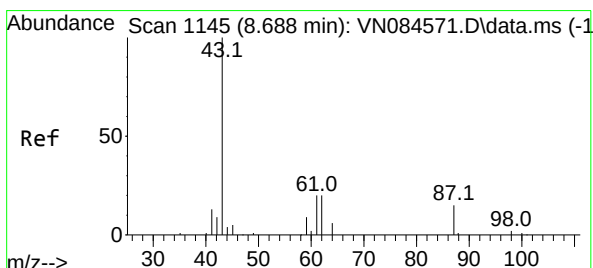
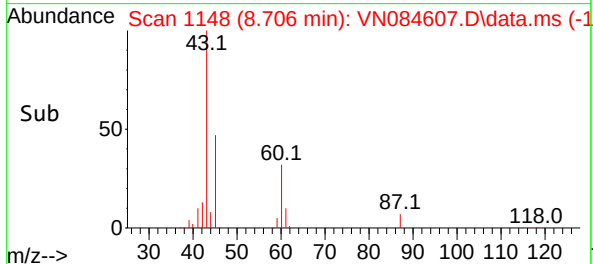
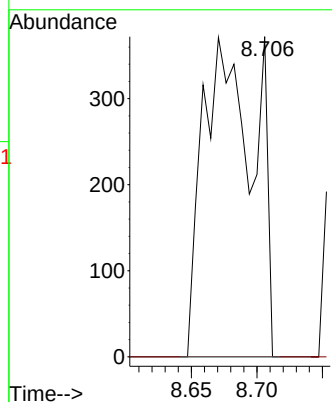
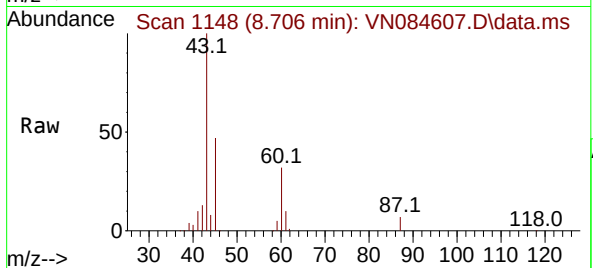
ClientSampleId :

Tgt Ion: 62 Resp: 994

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 43.541 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084607.D

Acq: 31 Oct 2024 07:46

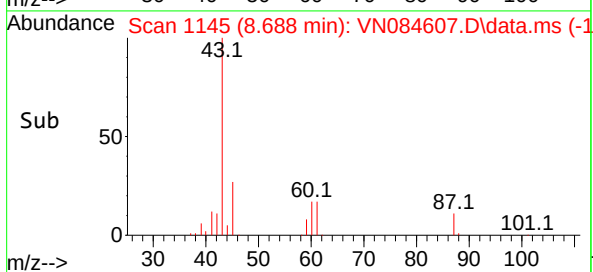
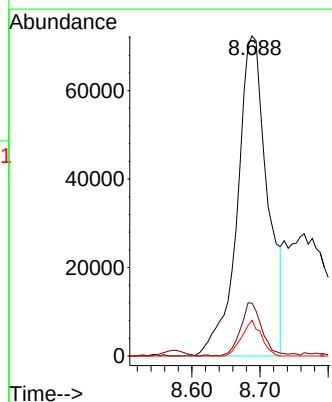
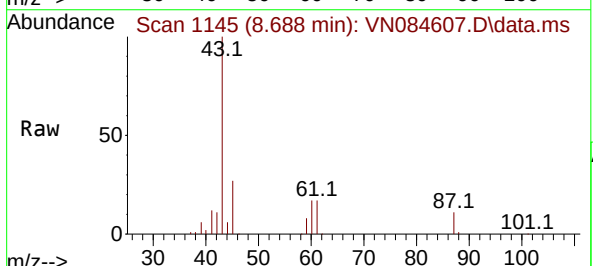
Tgt Ion: 43 Resp: 221324

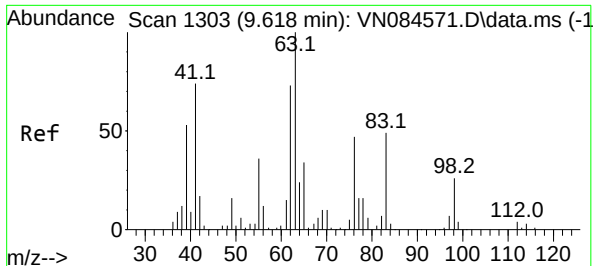
Ion Ratio Lower Upper

43 100

61 12.0 20.4 30.6#

87 7.2 10.3 15.5#





#45

1,2-Dichloropropane

Concen: 0.578 ug/l

RT: 9.735 min Scan# 1317

Delta R.T. 0.117 min

Lab File: VN084607.D

Acq: 31 Oct 2024 07:46

Instrument :

MSVOA_N

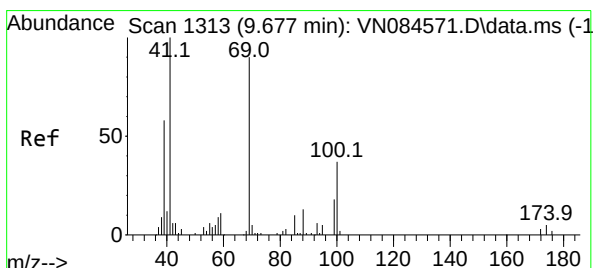
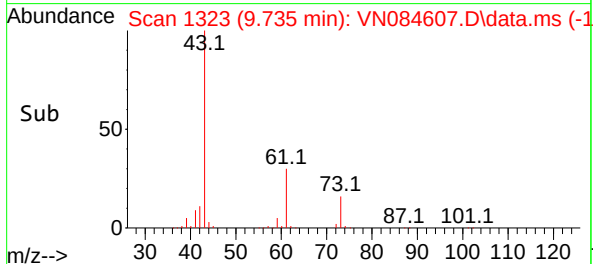
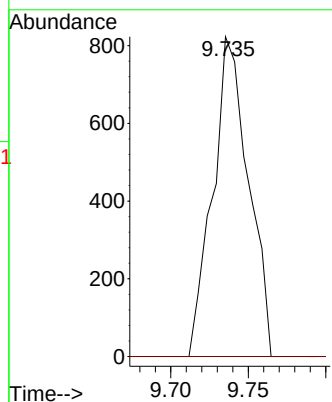
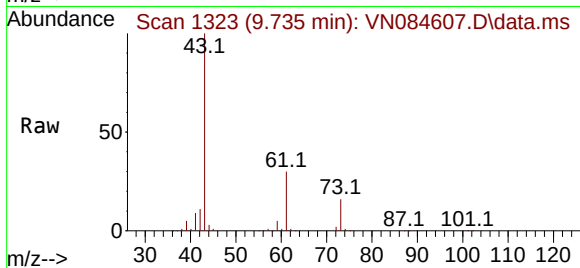
ClientSampleId :

Tgt Ion: 63 Resp: 1317

Ion Ratio Lower Upper

63 100

65 0.0 24.6 37.0#



#48

Methyl methacrylate

Concen: 1.704 ug/l

RT: 9.659 min Scan# 1310

Delta R.T. -0.018 min

Lab File: VN084607.D

Acq: 31 Oct 2024 07:46

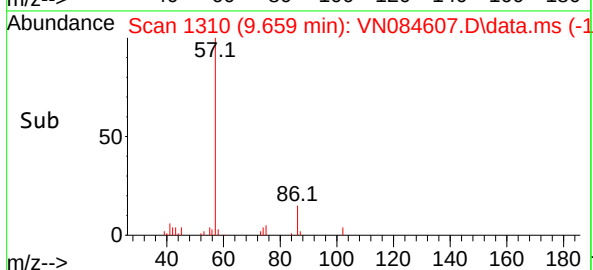
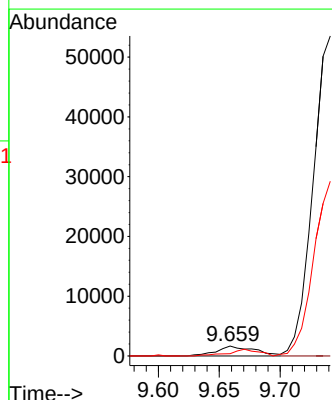
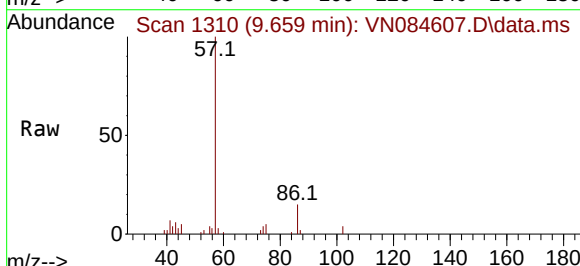
Tgt Ion: 41 Resp: 3639

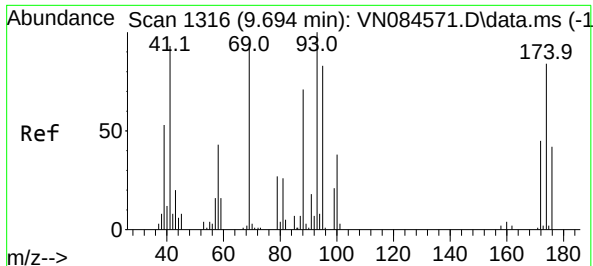
Ion Ratio Lower Upper

41 100

69 0.0 67.1 100.7#

39 51.8 45.8 68.6





#49

1,4-Dioxane

Concen: 3.674 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.041 min

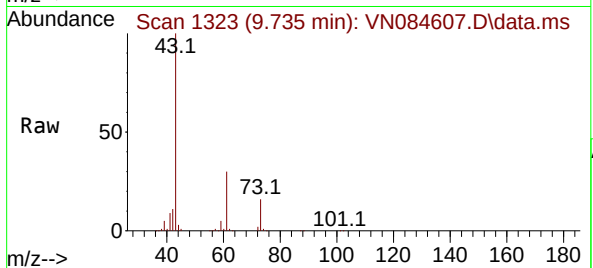
Lab File: VN084607.D

Acq: 31 Oct 2024 07:46

Instrument :

MSVOA_N

ClientSampleId :



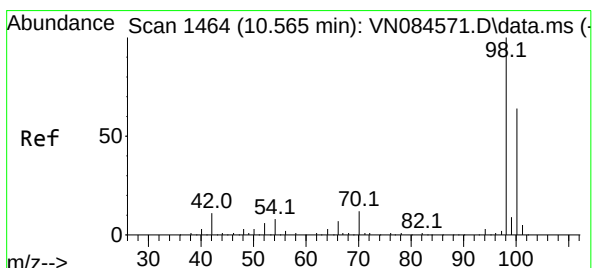
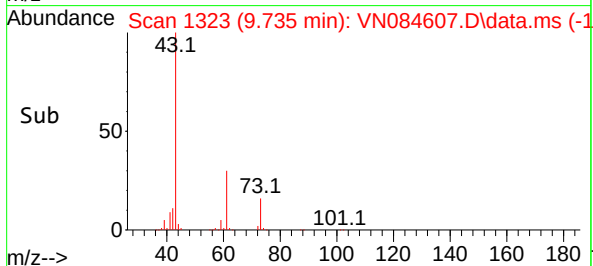
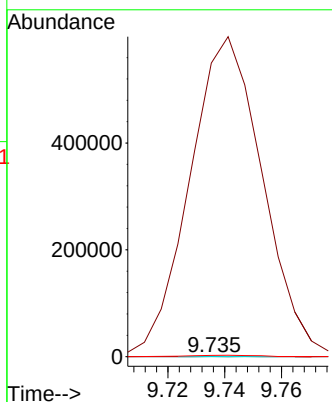
Tgt Ion: 88 Resp: 139

Ion Ratio Lower Upper

88 100

43 773446.0 25.3 37.9#

58 3546.8 56.4 84.6#



#50

Toluene-d8

Concen: 46.991 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN084607.D

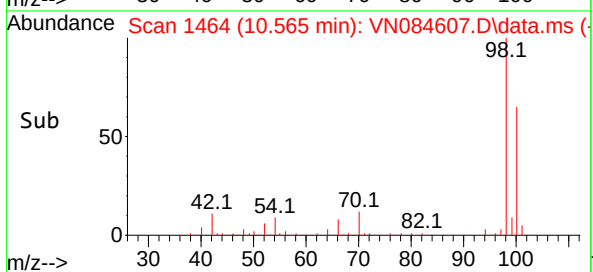
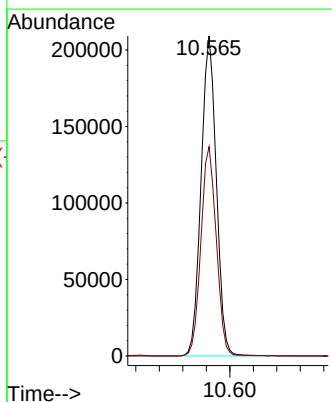
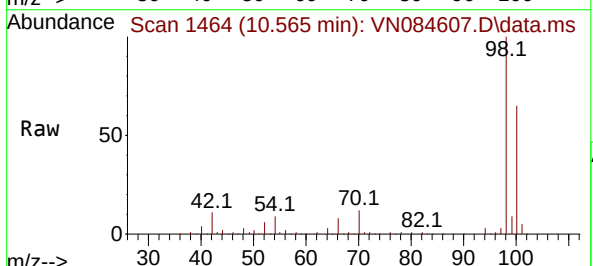
Acq: 31 Oct 2024 07:46

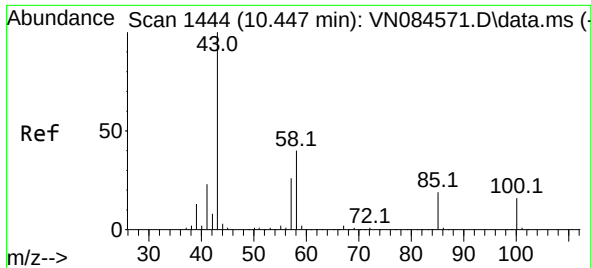
Tgt Ion: 98 Resp: 377424

Ion Ratio Lower Upper

98 100

100 65.9 52.7 79.1

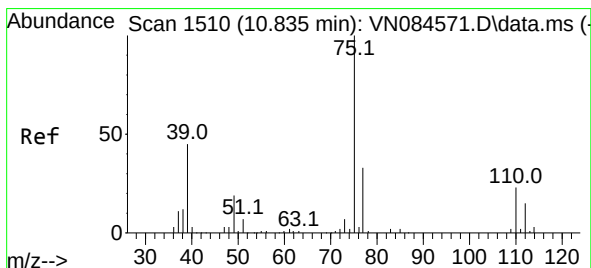
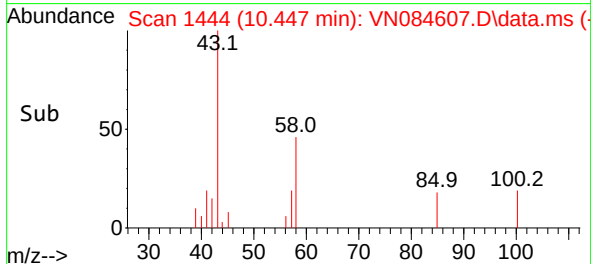
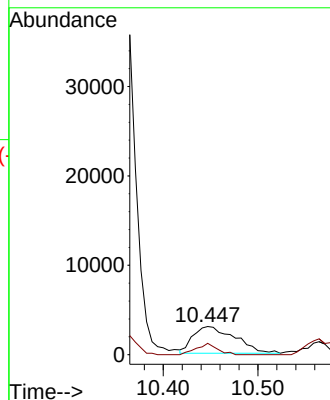
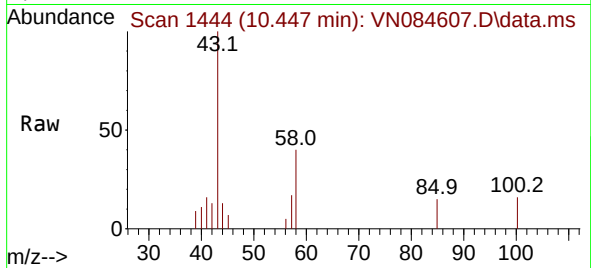




#51
4-Methyl-2-Pentanone
Concen: 3.498 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.006 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

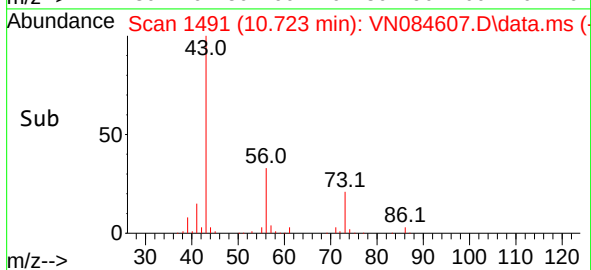
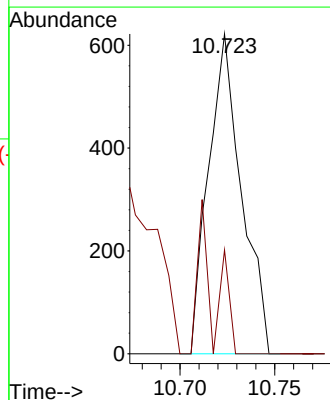
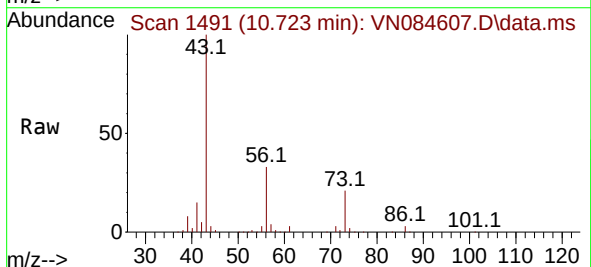
Instrument :
MSVOA_N
ClientSampleId :

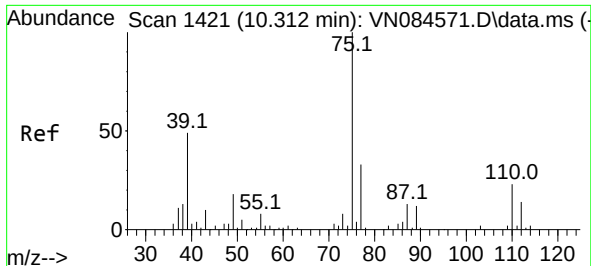
Tgt Ion: 43 Resp: 9148
Ion Ratio Lower Upper
43 100
58 21.2 31.6 47.4#



#53
t-1,3-Dichloropropene
Concen: 0.215 ug/l
RT: 10.723 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

Tgt Ion: 75 Resp: 754
Ion Ratio Lower Upper
75 100
77 32.5 25.4 38.0

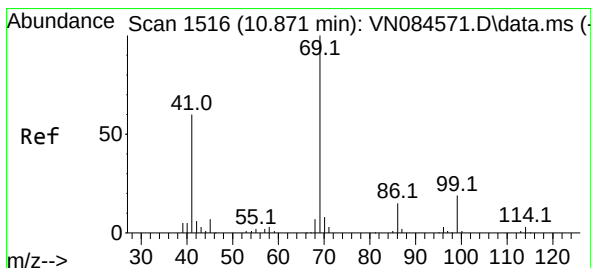
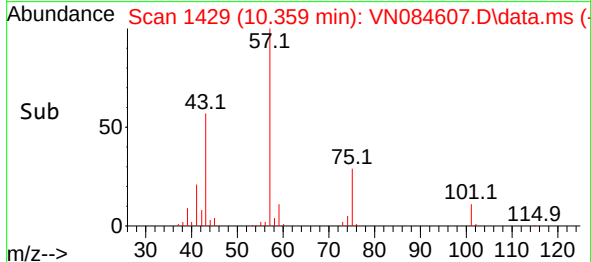
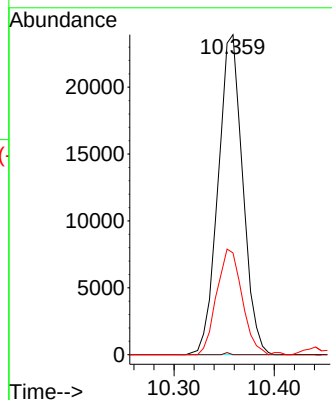
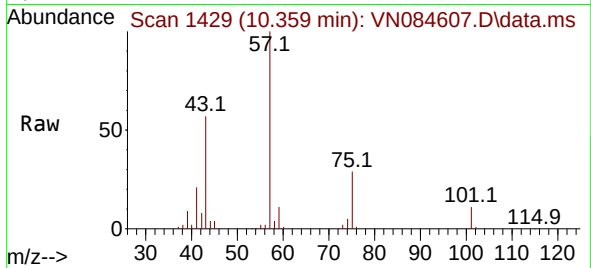




#54
 cis-1,3-Dichloropropene
 Concen: 10.970 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN084607.D
 Acq: 31 Oct 2024 07:46

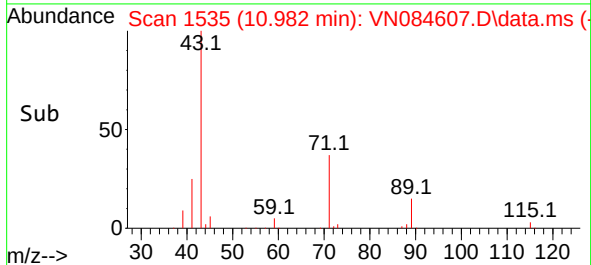
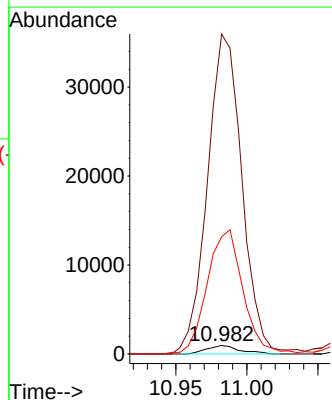
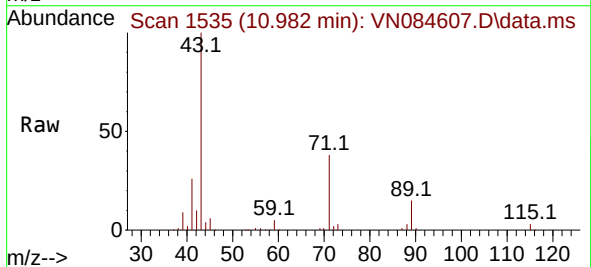
Instrument :
 MSVOA_N
 ClientSampleId :

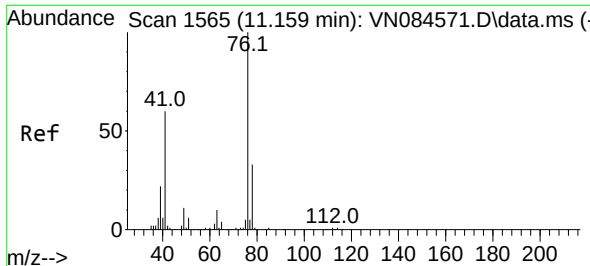
Tgt Ion: 75 Resp: 40724
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.2 36.2#
 39 31.8 38.7 58.1#



#56
 Ethyl methacrylate
 Concen: 0.496 ug/l
 RT: 10.982 min Scan# 1535
 Delta R.T. 0.112 min
 Lab File: VN084607.D
 Acq: 31 Oct 2024 07:46

Tgt Ion: 69 Resp: 1536
 Ion Ratio Lower Upper
 69 100
 41 3969.3 53.3 79.9#
 39 1587.6 28.8 43.2#





#57

1,3-Dichloropropane

Concen: 1.456 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN084607.D

Acq: 31 Oct 2024 07:46

Instrument :

MSVOA_N

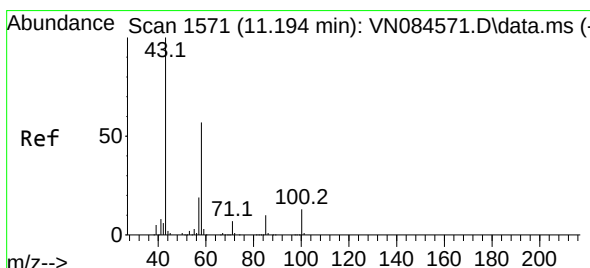
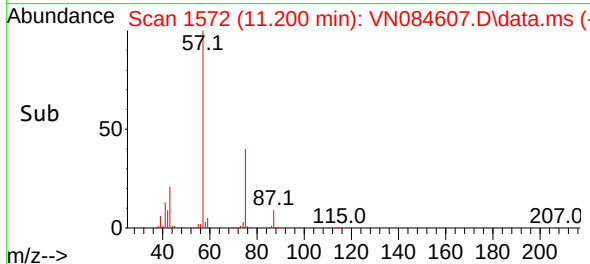
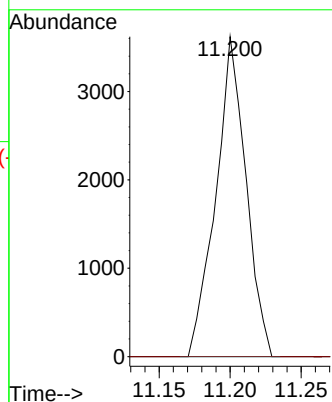
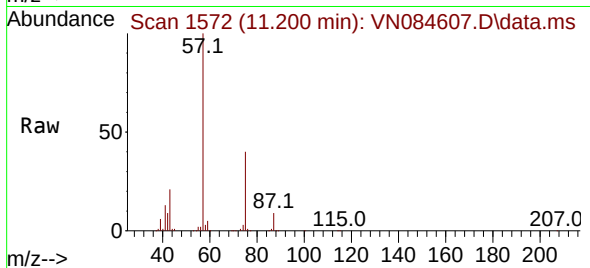
ClientSampleId :

Tgt Ion: 76 Resp: 5347

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 35.431 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN084607.D

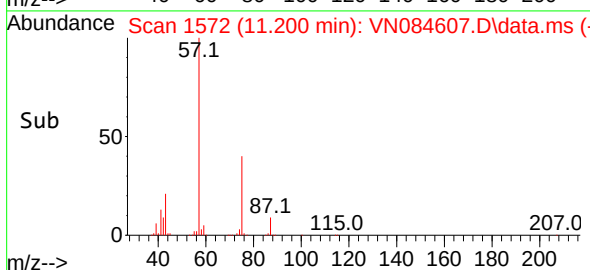
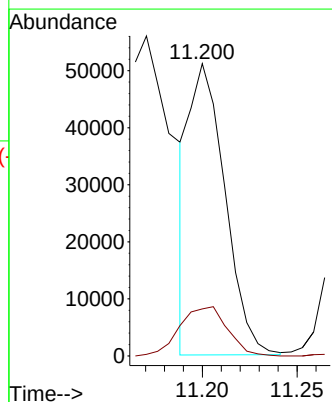
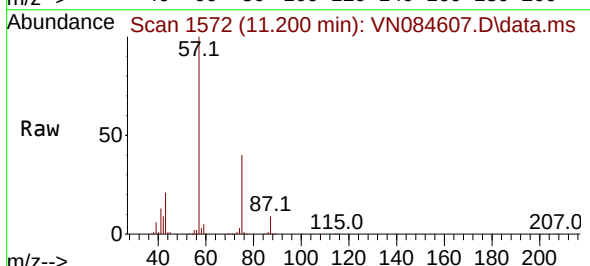
Acq: 31 Oct 2024 07:46

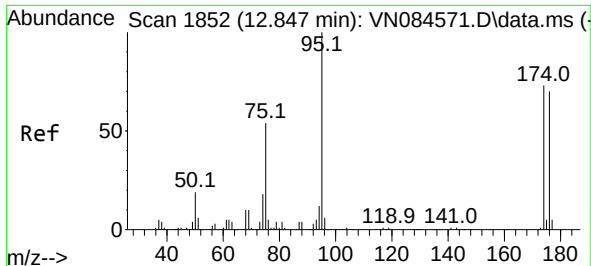
Tgt Ion: 43 Resp: 67452

Ion Ratio Lower Upper

43 100

58 22.5 27.3 81.8#





#62

4-Bromofluorobenzene

Concen: 44.589 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.000 min

Lab File: VN084607.D

Acq: 31 Oct 2024 07:46

Instrument :

MSVOA_N

ClientSampleId :

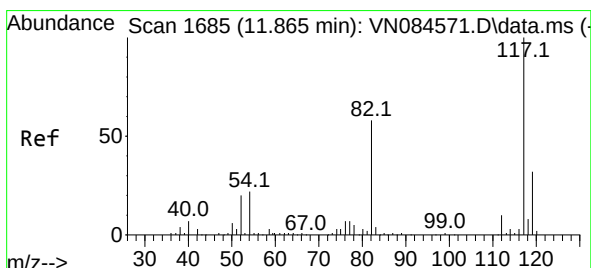
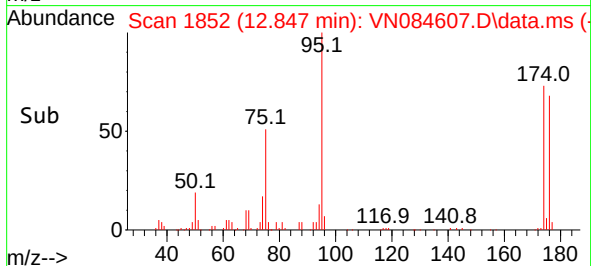
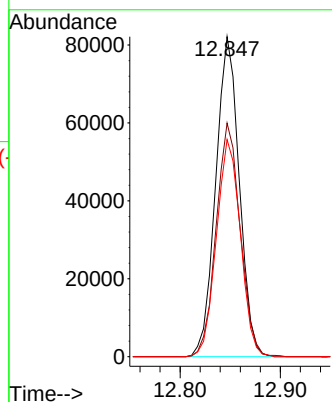
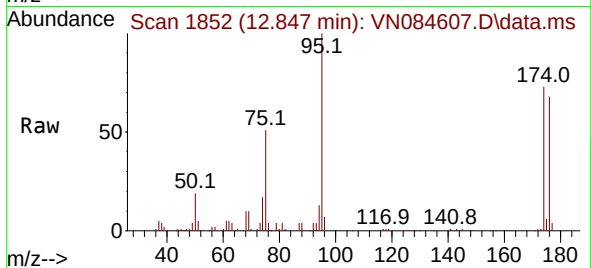
Tgt Ion: 95 Resp: 133845

Ion Ratio Lower Upper

95 100

174 74.7 0.0 145.2

176 69.1 0.0 140.0



#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.865 min Scan# 1685

Delta R.T. -0.000 min

Lab File: VN084607.D

Acq: 31 Oct 2024 07:46

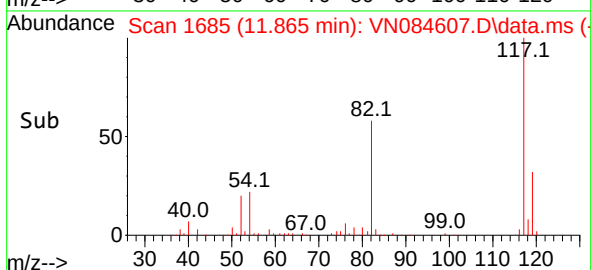
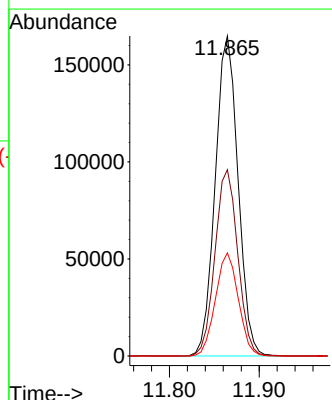
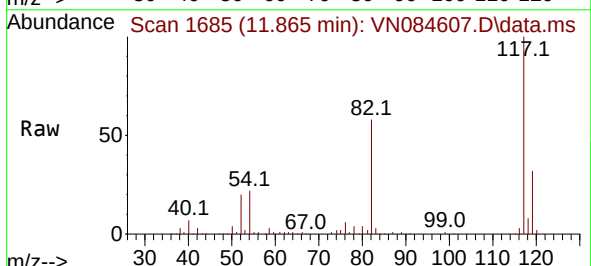
Tgt Ion: 117 Resp: 291140

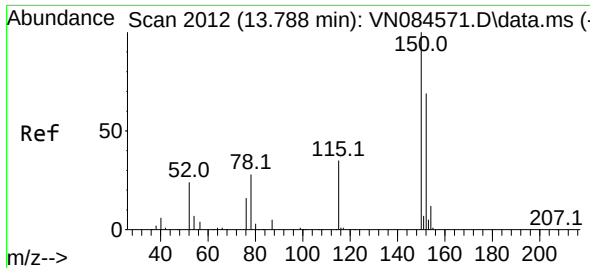
Ion Ratio Lower Upper

117 100

82 58.2 47.2 70.8

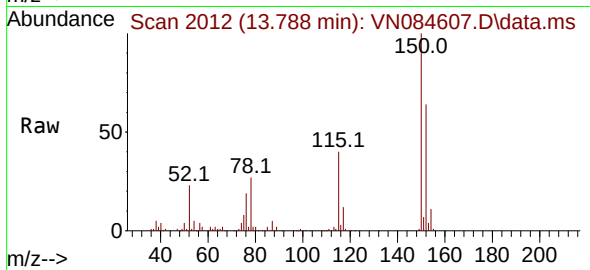
119 32.2 25.4 38.0



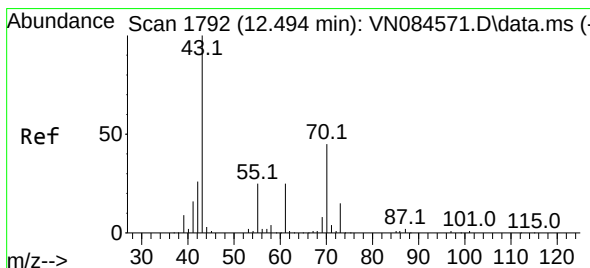
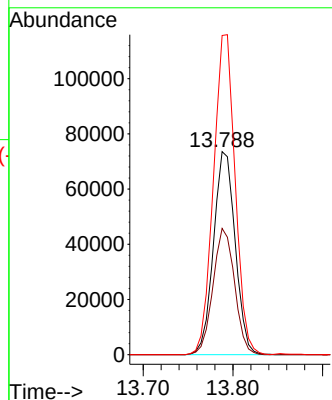
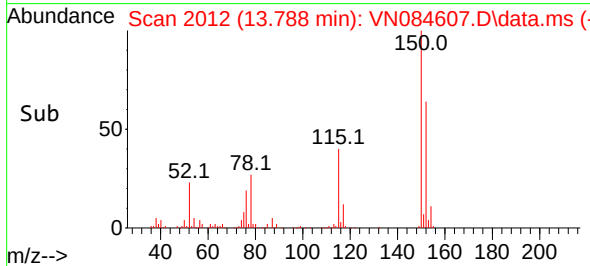


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.000 min
 Lab File: VN084607.D
 Acq: 31 Oct 2024 07:46

Instrument :
 MSVOA_N
 ClientSampleId :

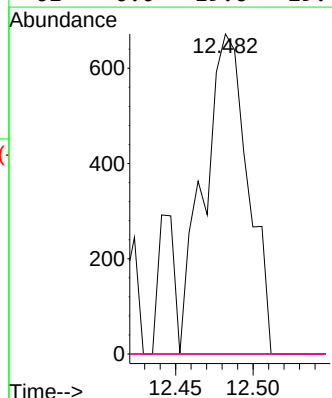
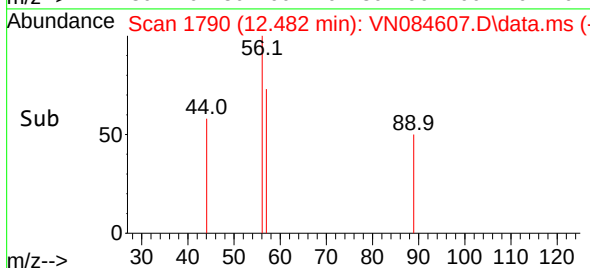
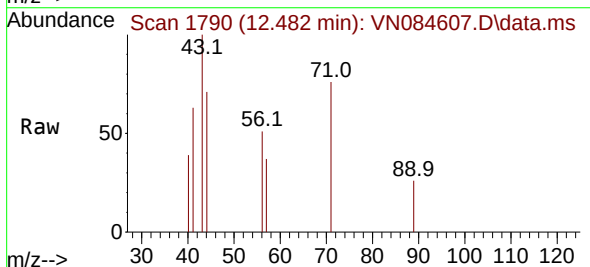


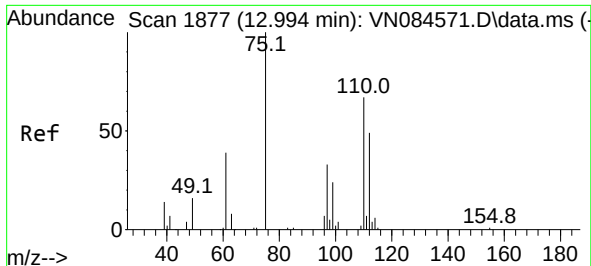
Tgt Ion:152 Resp: 123523
 Ion Ratio Lower Upper
 152 100
 115 61.9 31.3 93.9
 150 157.9 0.0 349.8



#74
 N-ethyl acetate
 Concen: 0.361 ug/l
 RT: 12.482 min Scan# 1790
 Delta R.T. -0.012 min
 Lab File: VN084607.D
 Acq: 31 Oct 2024 07:46

Tgt Ion: 43 Resp: 1331
 Ion Ratio Lower Upper
 43 100
 70 0.0 34.4 51.6#
 55 0.0 19.6 29.4#
 61 0.0 19.6 29.4#

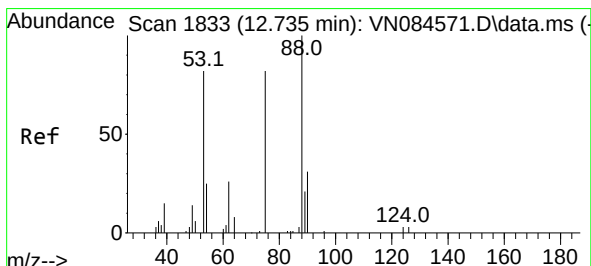
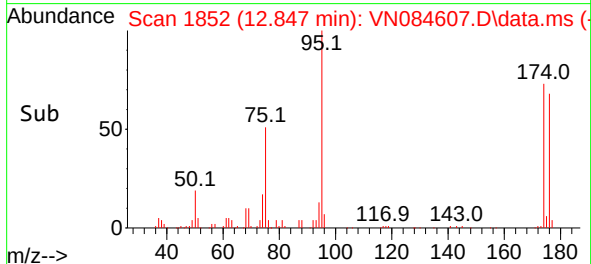
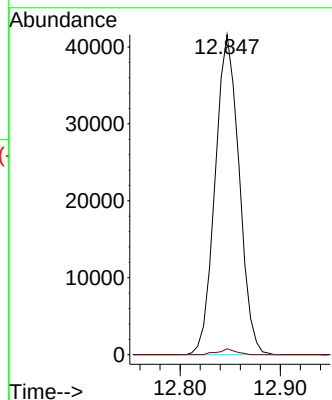
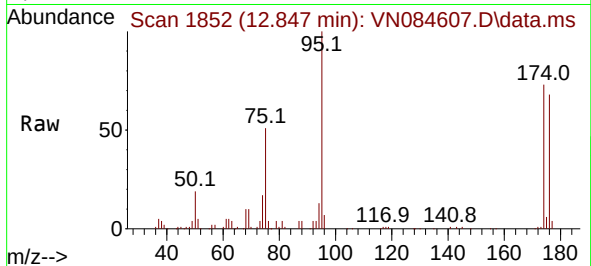




#76
1,2,3-Trichloropropane
Concen: 27.971 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

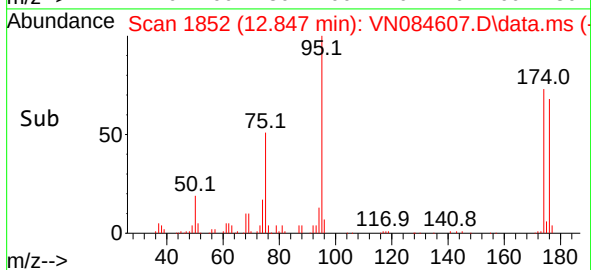
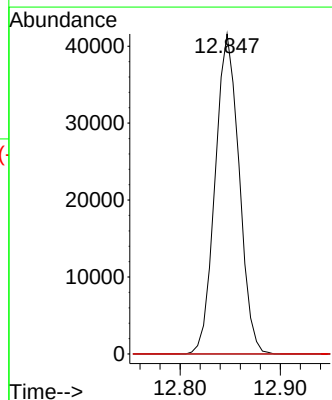
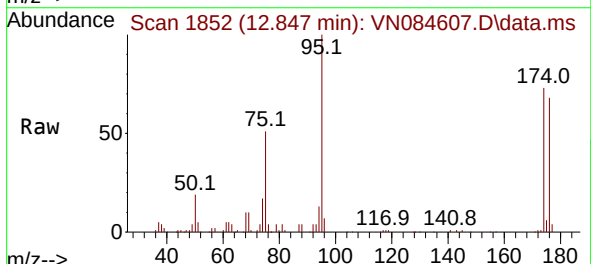
Instrument :
MSVOA_N
ClientSampleId :

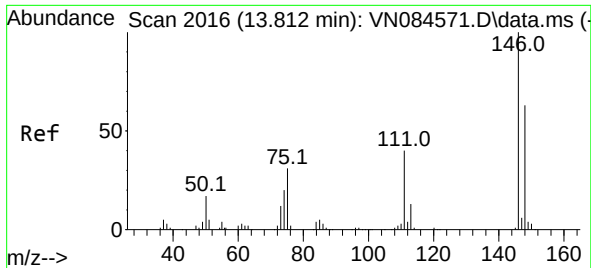
Tgt Ion: 75 Resp: 69065
Ion Ratio Lower Upper
75 100
77 1.4 96.9 290.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 66.358 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

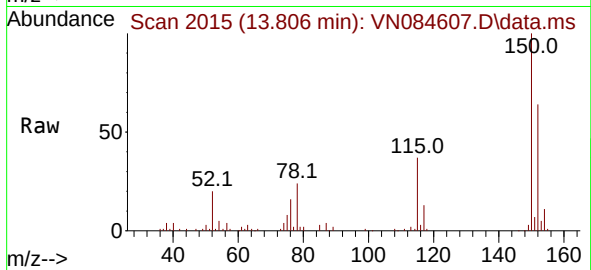
Tgt Ion: 75 Resp: 69065
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#





#88
1,4-Dichlorobenzene
Concen: Below Cal
RT: 13.806 min Scan# 20
Delta R.T. -0.006 min
Lab File: VN084607.D
Acq: 31 Oct 2024 07:46

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:146 Resp: 54
Ion Ratio Lower Upper
146 100
111 4148.1 21.2 63.6#
148 631.5 31.9 95.9#

