

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN102224\
 Data File : VN084463.D
 Acq On : 22 Oct 2024 18:46
 Operator : JC\MD
 Sample : P4460-04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 17 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 WB-303-BOT

Quant Time: Oct 23 01:32:43 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N093024W.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 01 07:11:01 2024
 Response via : Initial Calibration

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

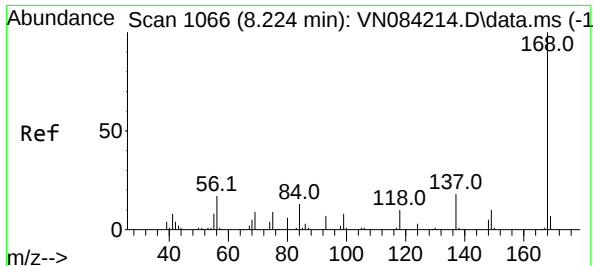
Internal Standards						
1) Pentafluorobenzene	8.224	168	163501	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	298176	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	267301	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.794	152	97626	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	120367	49.652	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	99.300%		
35) Dibromofluoromethane	8.171	113	97567	49.633	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	99.260%		
50) Toluene-d8	10.565	98	365187	50.494	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	100.980%		
62) 4-Bromofluorobenzene	12.847	95	119941	45.522	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	91.040%		
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.536	59	203	0.508	ug/l #	73
16) Acetone	4.442	43	27887	26.779	ug/l	94
18) Methyl Acetate	5.030	43	1263	0.556	ug/l #	51
20) Methylene Chloride	5.283	84	4490	2.121	ug/l #	66
25) 2-Butanone	7.483	43	3881	2.736	ug/l #	82
29) Tetrahydrofuran	7.847	42	549	0.627	ug/l #	42
31) Cyclohexane	8.230	56	3703	1.031	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	14113	4.943	ug/l #	51
37) Ethyl Acetate	7.571	43	3037	1.037	ug/l #	75
38) Carbon Tetrachloride	8.224	117	18156	5.797	ug/l #	14
42) 1,2-Dichloroethane	8.688	62	680	0.225	ug/l #	75
43) Isopropyl Acetate	8.688	43	154605	26.945	ug/l #	83
45) 1,2-Dichloropropane	9.741	63	1348	0.641	ug/l #	44
48) Methyl methacrylate	9.659	41	3130	1.370	ug/l #	41
49) 1,4-Dioxane	9.694	88	157	3.734	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	8844	3.171	ug/l #	72
53) t-1,3-Dichloropropene	10.730	75	644	0.200	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	37640	10.880	ug/l #	66
56) Ethyl methacrylate	10.977	69	1576	0.492	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	4563	1.313	ug/l #	42
59) 2-Hexanone	11.171	43	91806	44.048	ug/l #	24
74) N-amyl acetate	12.488	43	702	0.208	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	63854	32.038	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	63854	76.810	ug/l #	11
95) Naphthalene	15.635	128	4717	0.874	ug/l	97

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

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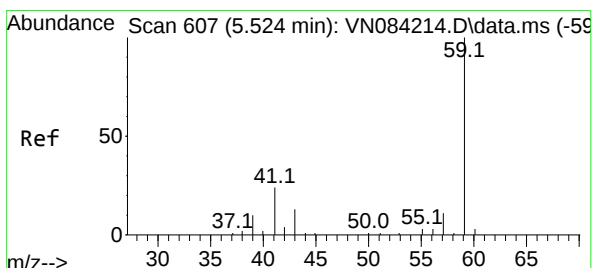
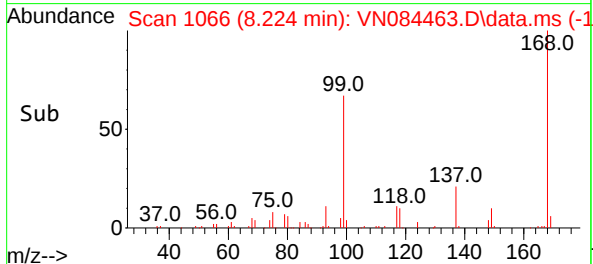
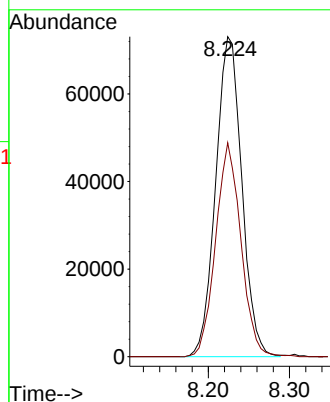
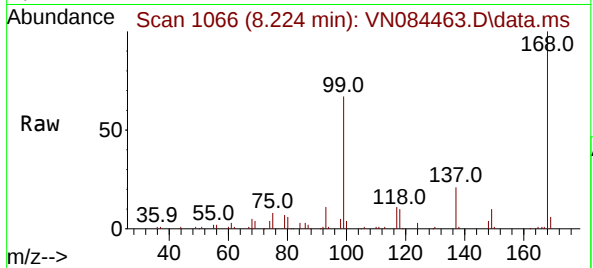




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN084463.D
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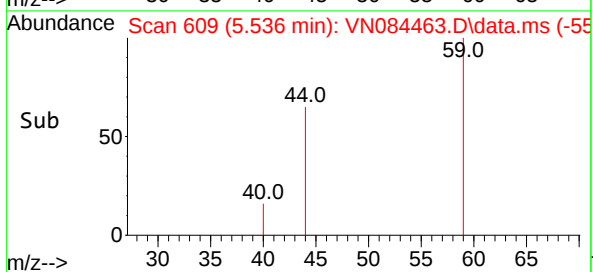
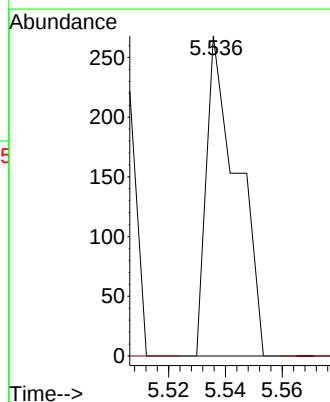
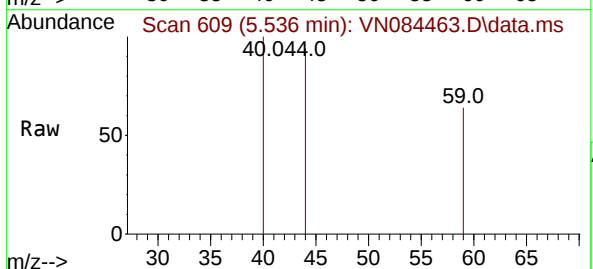
Instrument :
MSVOA_N
ClientSampleId :
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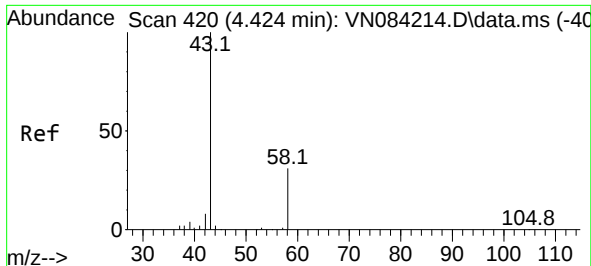
Tgt Ion:168 Resp: 163501
Ion Ratio Lower Upper
168 100
99 66.9 54.2 81.2



#11
Tert butyl alcohol
Concen: 0.508 ug/l
RT: 5.536 min Scan# 609
Delta R.T. 0.012 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Tgt Ion: 59 Resp: 203
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#

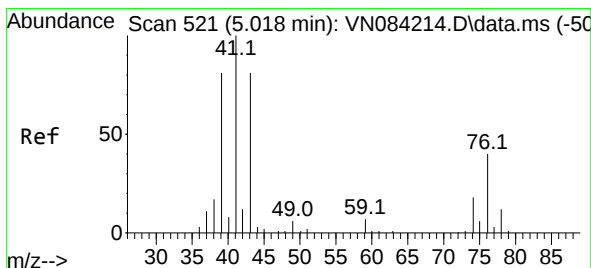
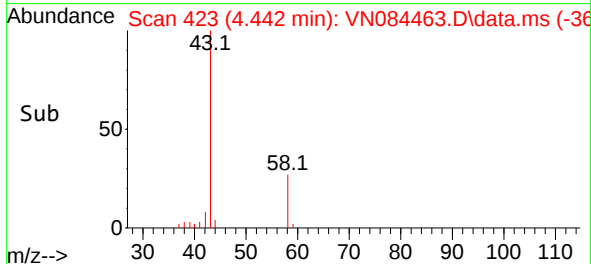
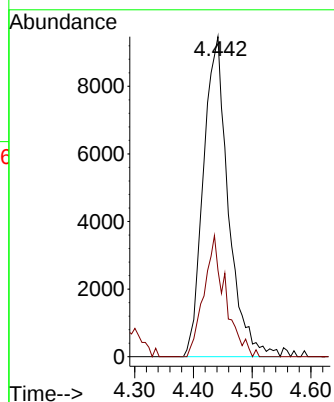
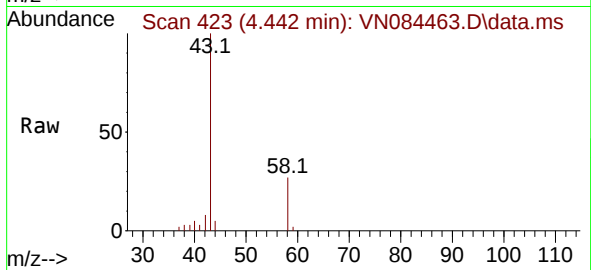




#16
Acetone
Concen: 26.779 ug/l
RT: 4.442 min Scan# 41
Delta R.T. 0.018 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

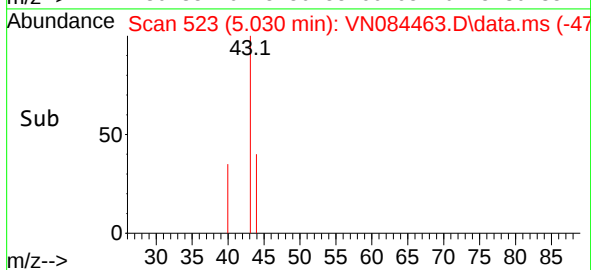
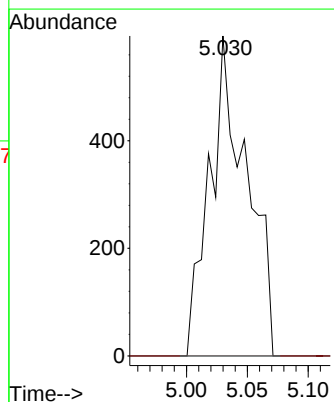
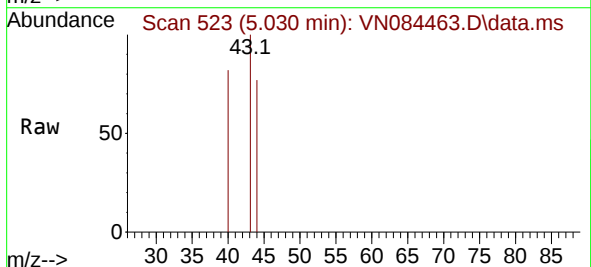
Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

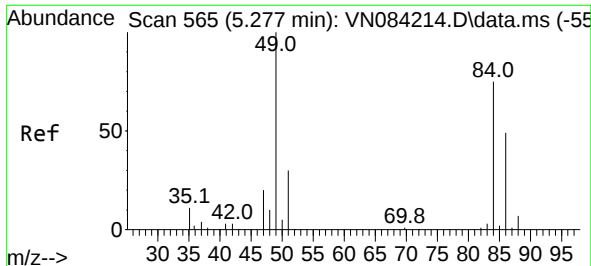
Tgt Ion: 43 Resp: 27887
Ion Ratio Lower Upper
43 100
58 27.0 24.4 36.6



#18
Methyl Acetate
Concen: 0.556 ug/l
RT: 5.030 min Scan# 523
Delta R.T. 0.012 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Tgt Ion: 43 Resp: 1263
Ion Ratio Lower Upper
43 100
74 0.0 19.2 28.8#

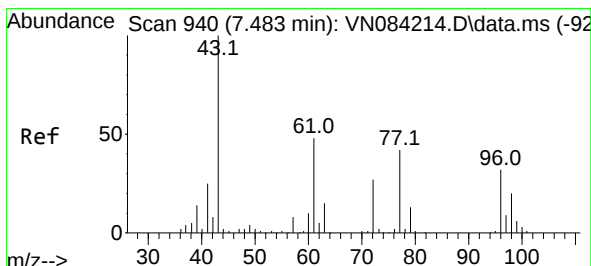
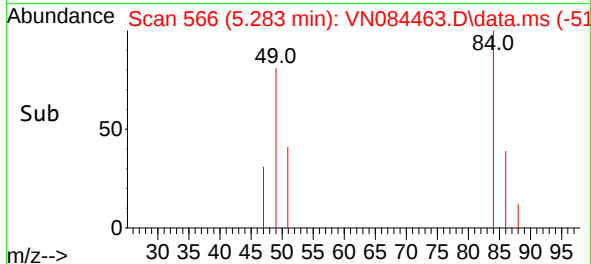
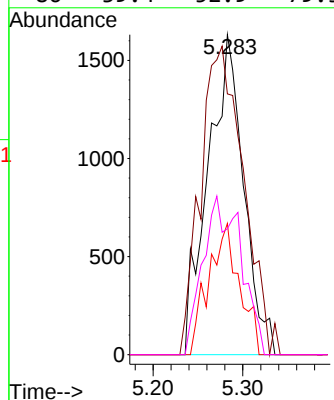
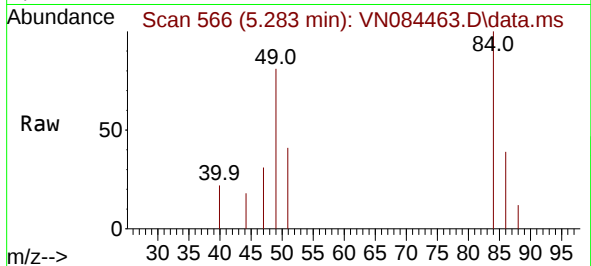




#20
Methylene Chloride
Concen: 2.121 ug/l
RT: 5.283 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

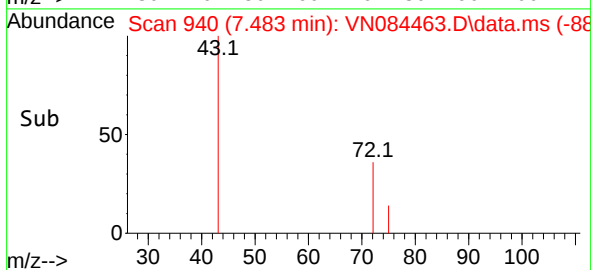
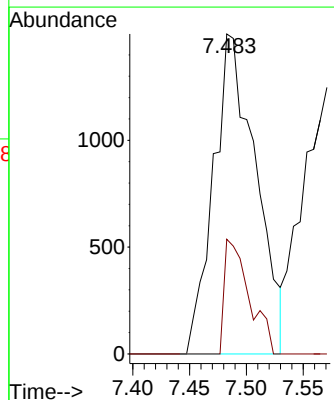
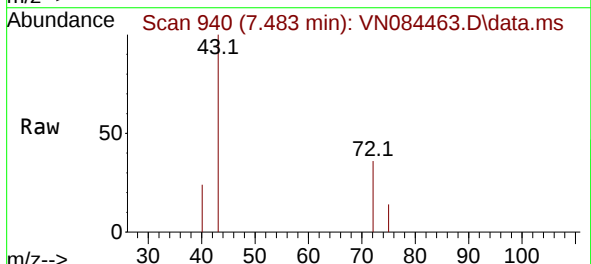
Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

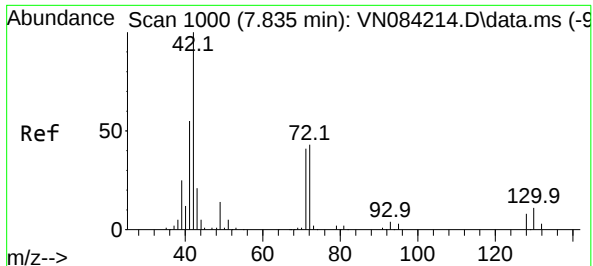
Tgt Ion: 84	Resp: 4490
Ion Ratio	Lower Upper
84 100	
49 81.5	107.2 160.8#
51 41.0	31.8 47.8
86 39.4	52.9 79.3#



#25
2-Butanone
Concen: 2.736 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.000 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Tgt Ion: 43	Resp: 3881		
Ion Ratio	Lower	Upper	
43 100			
72 35.8	21.4	32.2#	





#29

Tetrahydrofuran

Concen: 0.627 ug/l

RT: 7.847 min Scan# 1067

Delta R.T. 0.012 min

Lab File: VN084463.D

Acq: 22 Oct 2024 18:46

Instrument :

MSVOA_N

ClientSampleId :

WB-303-BOT

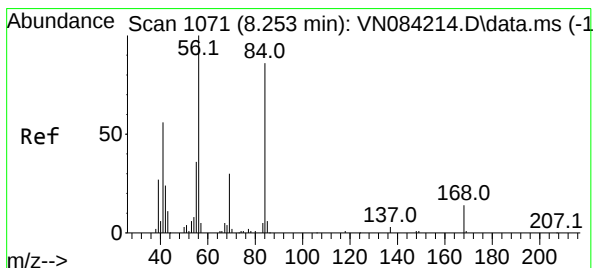
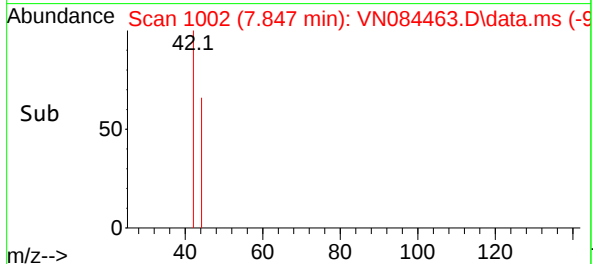
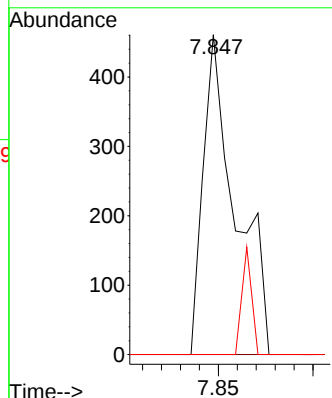
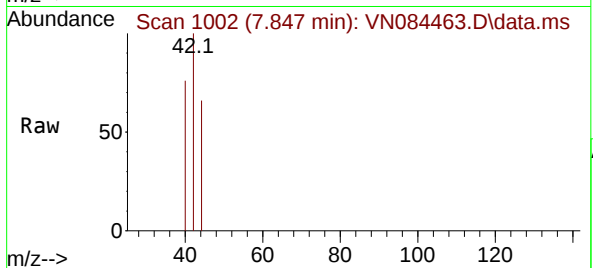
Tgt Ion: 42 Resp: 549

Ion Ratio Lower Upper

42 100

72 0.0 34.6 51.8#

71 10.0 32.2 48.4#



#31

Cyclohexane

Concen: 1.031 ug/l

RT: 8.230 min Scan# 1067

Delta R.T. -0.023 min

Lab File: VN084463.D

Acq: 22 Oct 2024 18:46

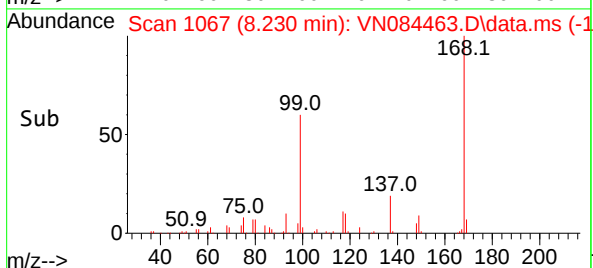
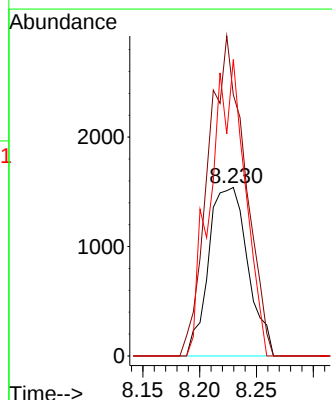
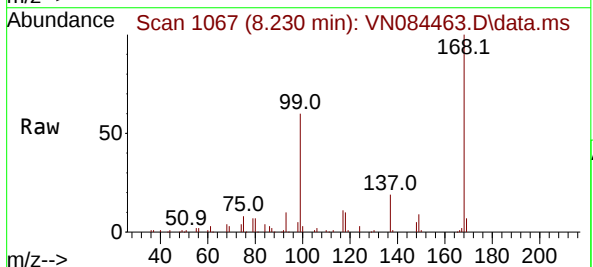
Tgt Ion: 56 Resp: 3703

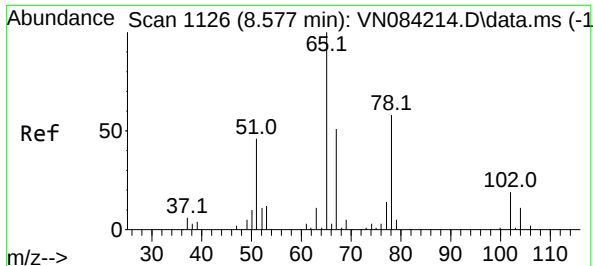
Ion Ratio Lower Upper

56 100

69 155.0 23.8 35.6#

84 176.0 68.8 103.2#





#33

1,2-Dichloroethane-d4

Concen: 49.652 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

Lab File: VN084463.D

Acq: 22 Oct 2024 18:46

Instrument :

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ClientSampleId :

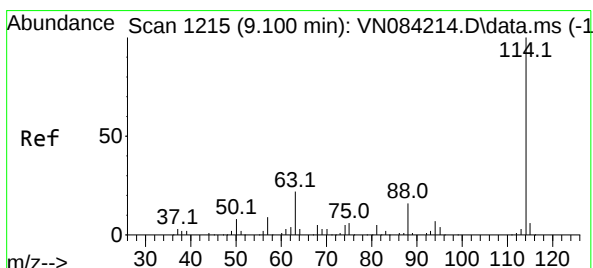
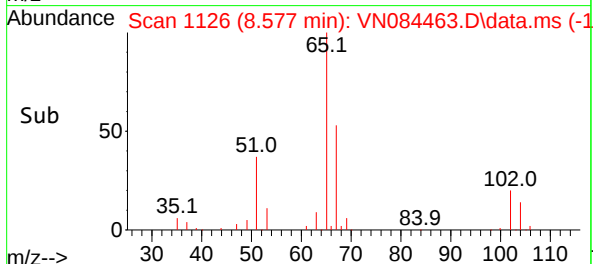
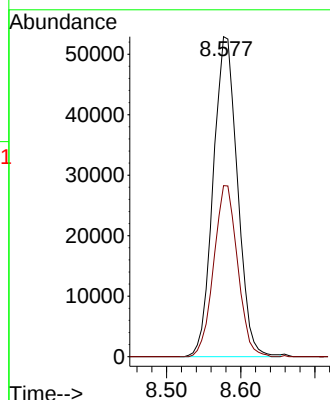
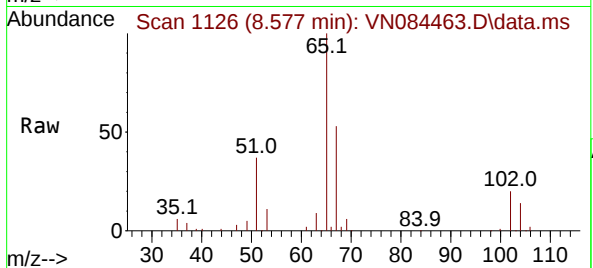
WB-303-BOT

Tgt Ion: 65 Resp: 120367

Ion Ratio Lower Upper

65 100

67 52.5 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: VN084463.D

Acq: 22 Oct 2024 18:46

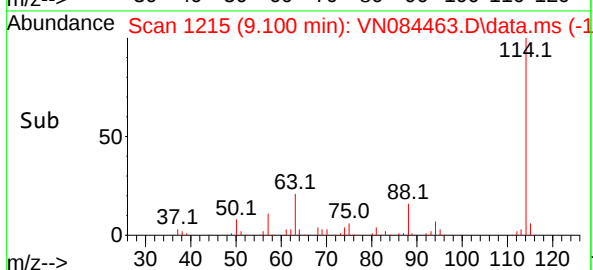
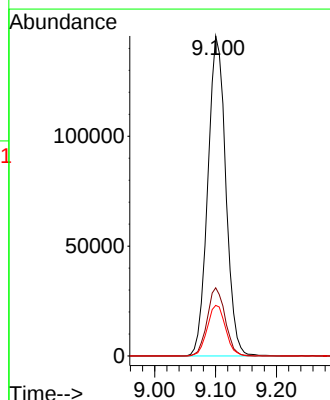
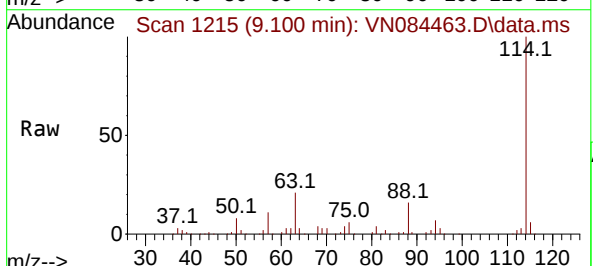
Tgt Ion: 114 Resp: 298176

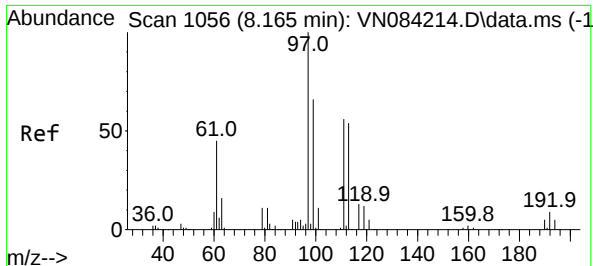
Ion Ratio Lower Upper

114 100

63 21.3 0.0 43.8

88 15.8 0.0 31.6





#35

Dibromofluoromethane

Concen: 49.633 ug/l

RT: 8.171 min Scan# 1057

Delta R.T. 0.006 min

Lab File: VN084463.D

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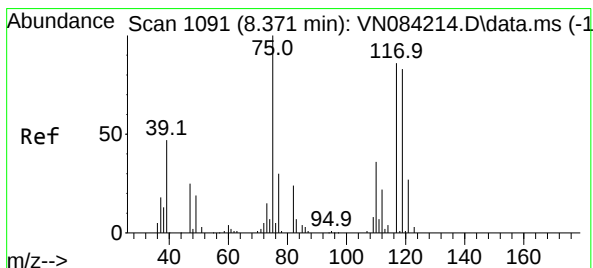
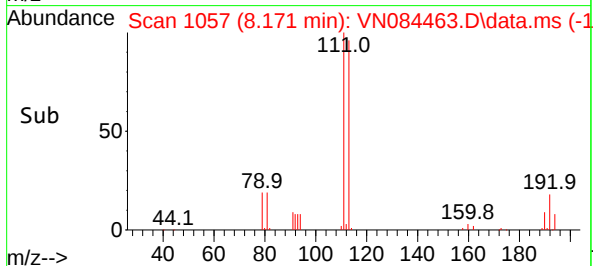
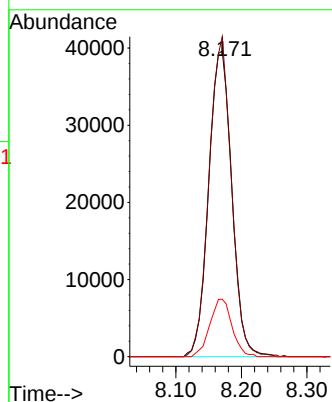
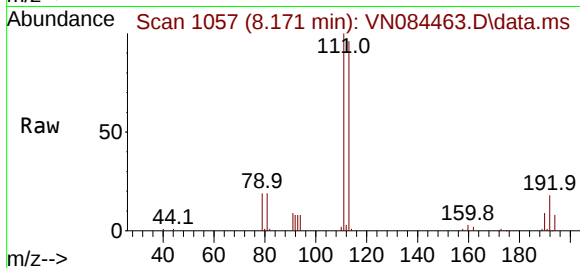
Tgt Ion:113 Resp: 97567

Ion Ratio Lower Upper

113 100

111 100.9 83.3 124.9

192 18.0 13.5 20.3



#36

1,1-Dichloropropene

Concen: 4.943 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.147 min

Lab File: VN084463.D

Acq: 22 Oct 2024 18:46

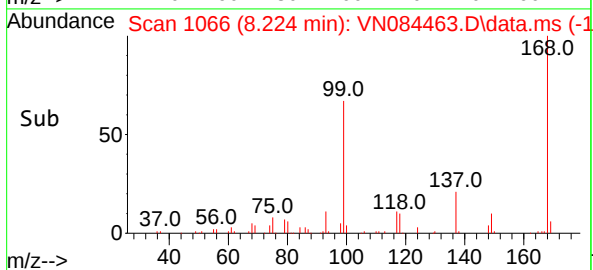
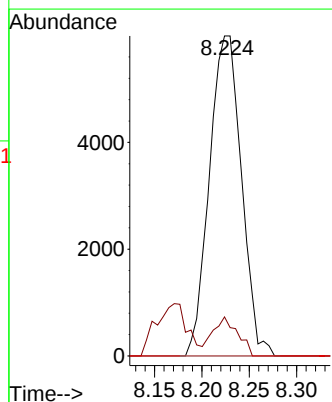
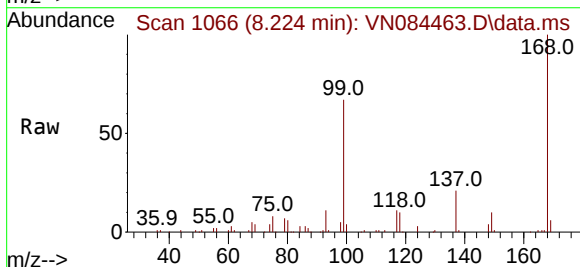
Tgt Ion: 75 Resp: 14113

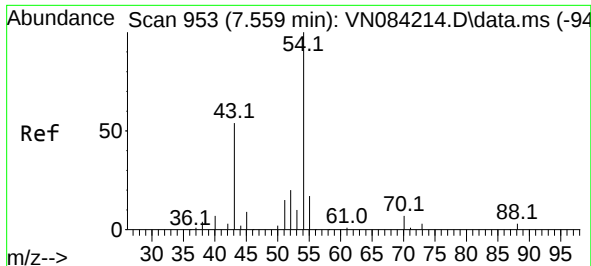
Ion Ratio Lower Upper

75 100

110 9.4 16.9 50.7#

77 0.0 24.7 37.1#





#37

Ethyl Acetate

Concen: 1.037 ug/l

RT: 7.571 min Scan# 91

Delta R.T. 0.012 min

Lab File: VN084463.D

Acq: 22 Oct 2024 18:46

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ClientSampleId :

WB-303-BOT

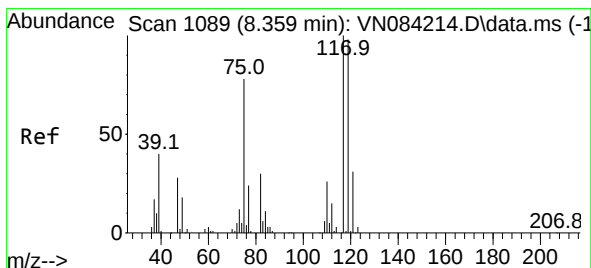
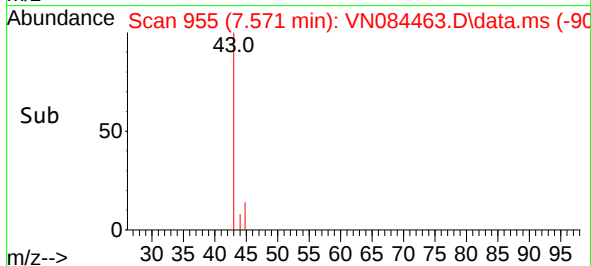
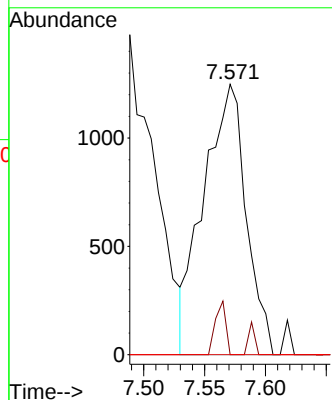
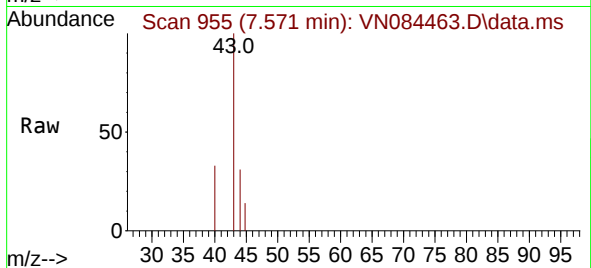
Tgt Ion: 43 Resp: 3037

Ion Ratio Lower Upper

43 100

61 4.8 10.7 16.1#

70 0.0 8.8 13.2#



#38

Carbon Tetrachloride

Concen: 5.797 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.135 min

Lab File: VN084463.D

Acq: 22 Oct 2024 18:46

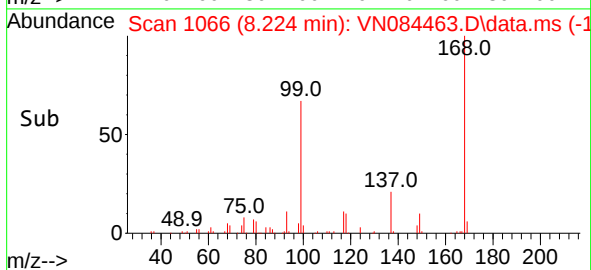
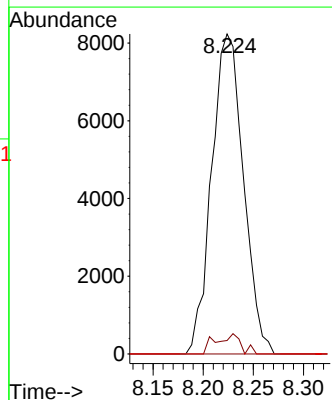
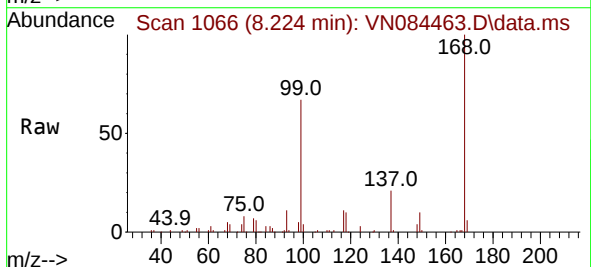
Tgt Ion: 117 Resp: 18156

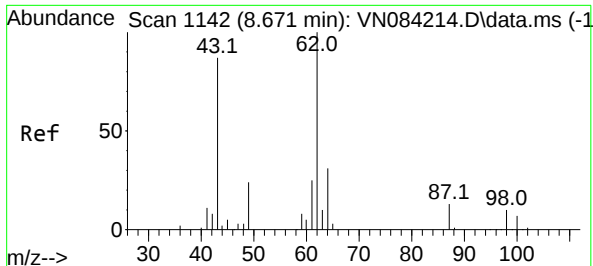
Ion Ratio Lower Upper

117 100

119 4.2 78.7 118.1#

121 0.0 24.4 36.6#





#42

1,2-Dichloroethane

Concen: 0.225 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.018 min

Lab File: VN084463.D

Acq: 22 Oct 2024 18:46

Instrument :

MSVOA_N

ClientSampleId :

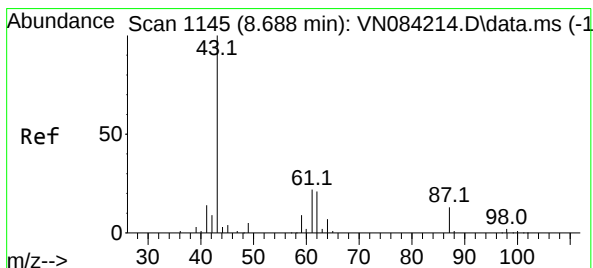
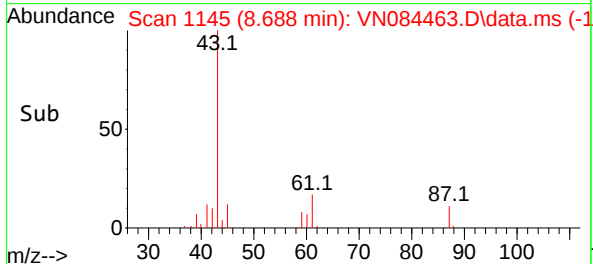
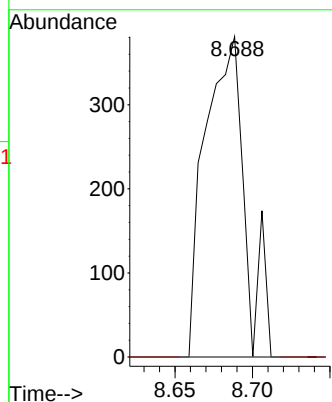
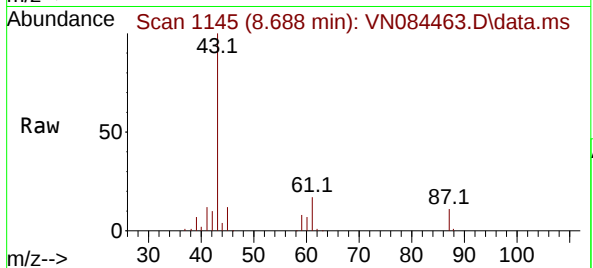
WB-303-BOT

Tgt Ion: 62 Resp: 680

Ion Ratio Lower Upper

62 100

98 0.0 0.0 18.2



#43

Isopropyl Acetate

Concen: 26.945 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN084463.D

Acq: 22 Oct 2024 18:46

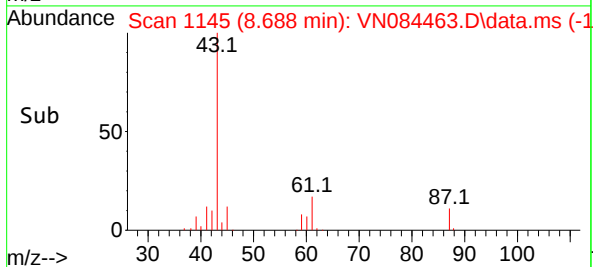
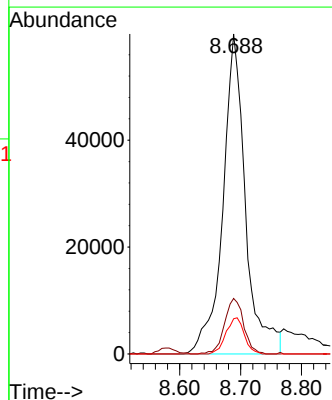
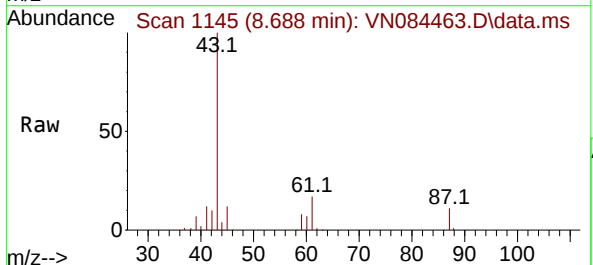
Tgt Ion: 43 Resp: 154605

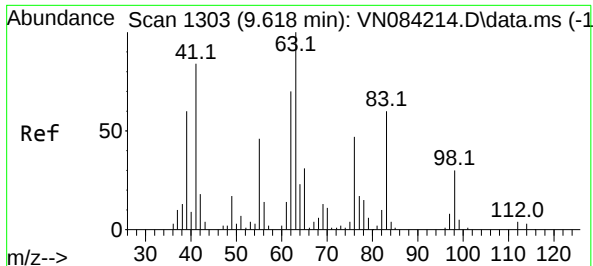
Ion Ratio Lower Upper

43 100

61 14.7 20.4 30.6#

87 9.1 10.3 15.5#

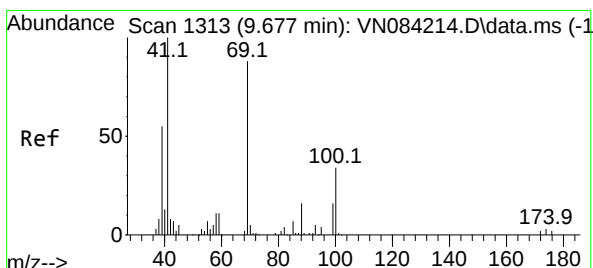
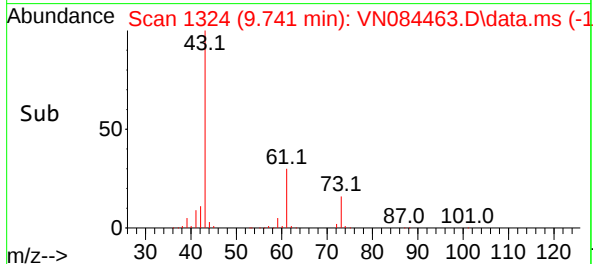
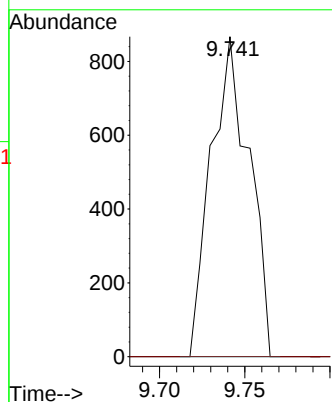
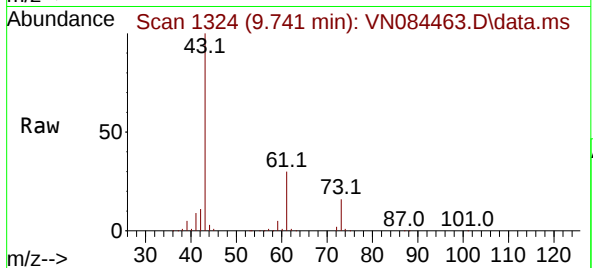




#45
1,2-Dichloropropane
Concen: 0.641 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.124 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

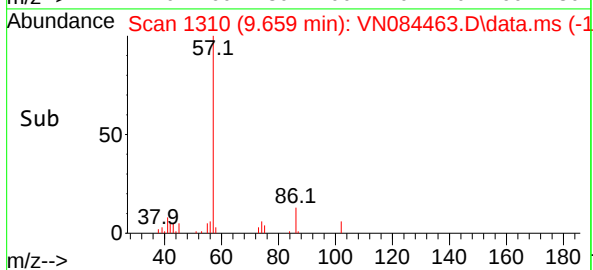
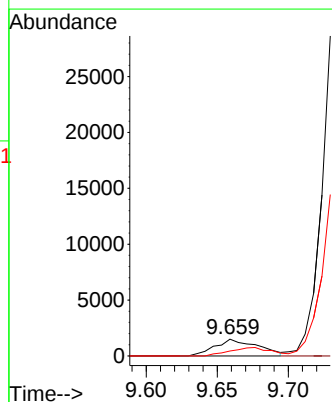
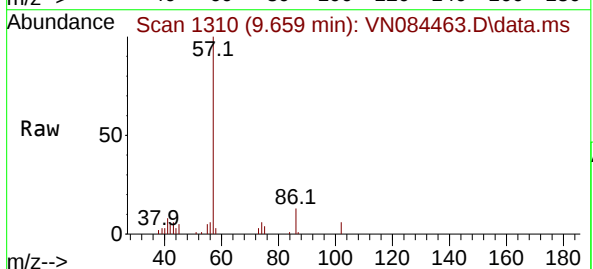
Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

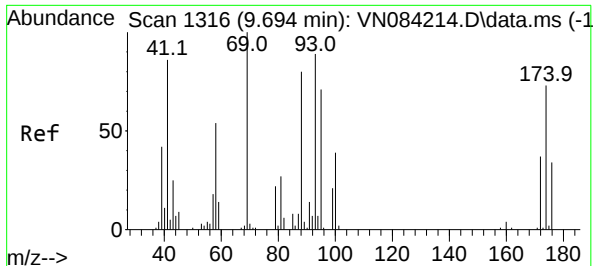
Tgt Ion: 63 Resp: 1348
Ion Ratio Lower Upper
63 100
65 0.0 24.6 37.0#



#48
Methyl methacrylate
Concen: 1.370 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.018 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Tgt Ion: 41 Resp: 3130
Ion Ratio Lower Upper
41 100
69 0.0 67.1 100.7#
39 49.4 45.8 68.6





#49

1,4-Dioxane

Concen: 3.734 ug/l

RT: 9.694 min Scan# 1

Delta R.T. 0.000 min

Lab File: VN084463.D

Acq: 22 Oct 2024 18:46

Instrument :

MSVOA_N

ClientSampleId :

WB-303-BOT

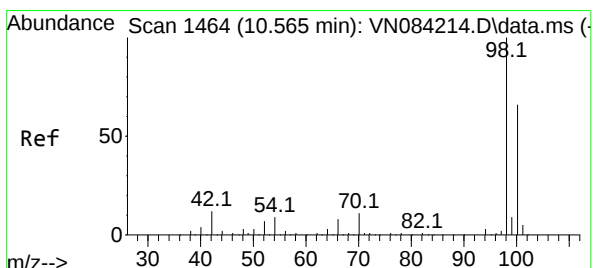
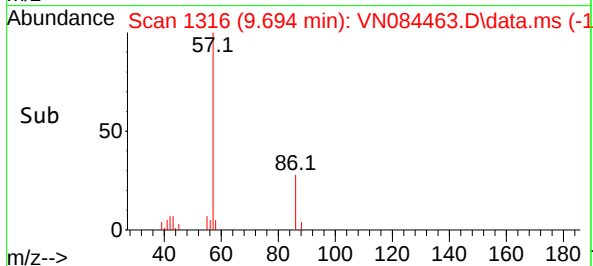
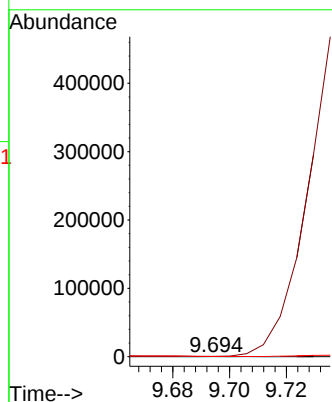
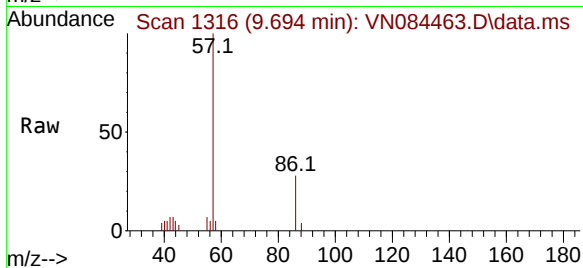
Tgt Ion: 88 Resp: 157

Ion Ratio Lower Upper

88 100

43 0.0 25.3 37.9#

58 1548.4 56.4 84.6#



#50

Toluene-d8

Concen: 50.494 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. 0.000 min

Lab File: VN084463.D

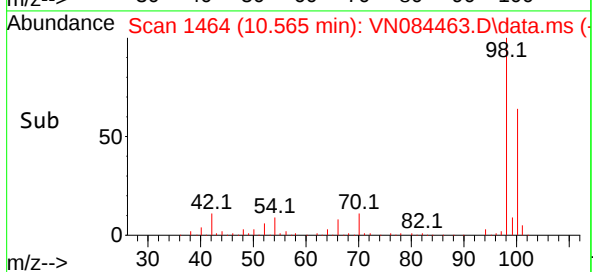
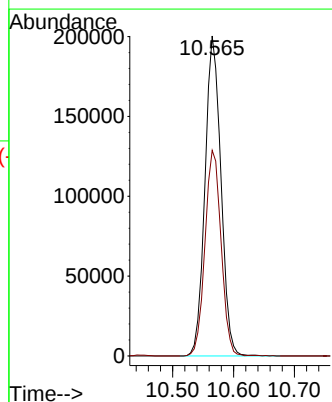
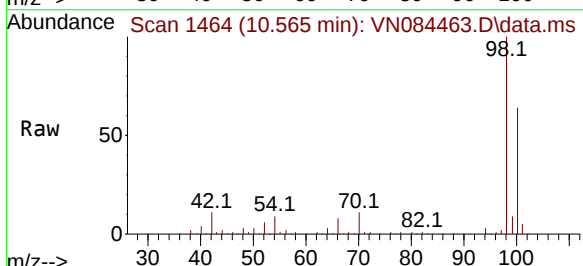
Acq: 22 Oct 2024 18:46

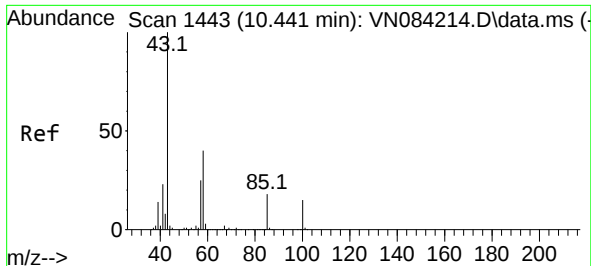
Tgt Ion: 98 Resp: 365187

Ion Ratio Lower Upper

98 100

100 64.8 52.7 79.1

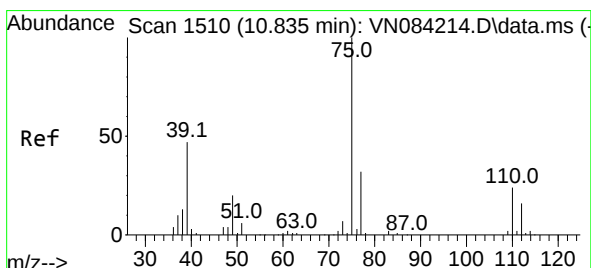
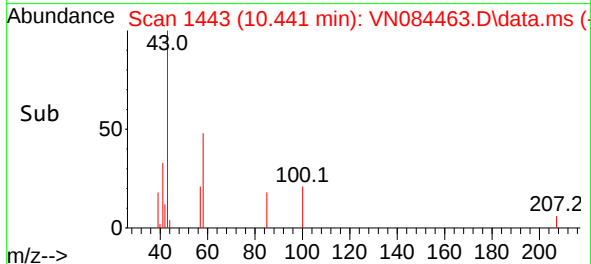
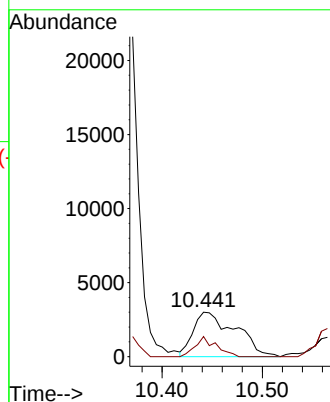
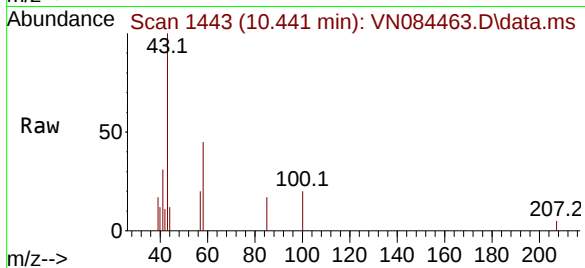




#51
4-Methyl-2-Pentanone
Concen: 3.171 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

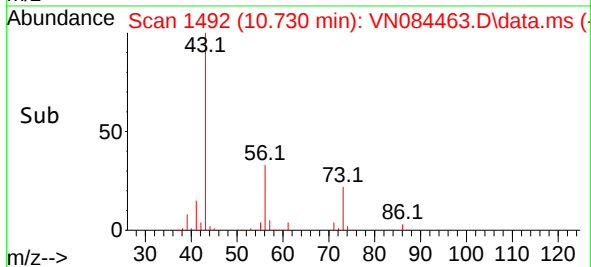
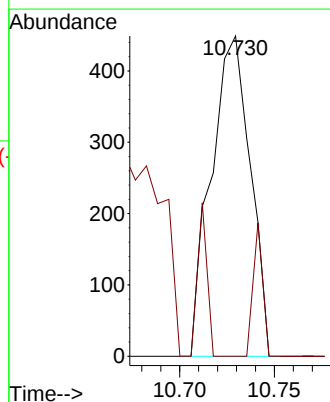
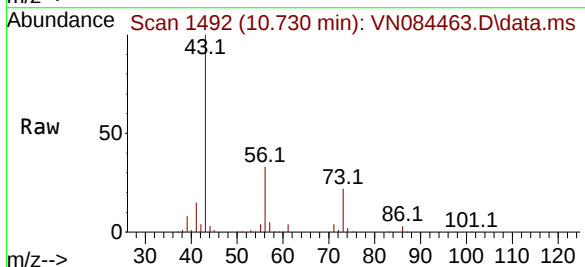
Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

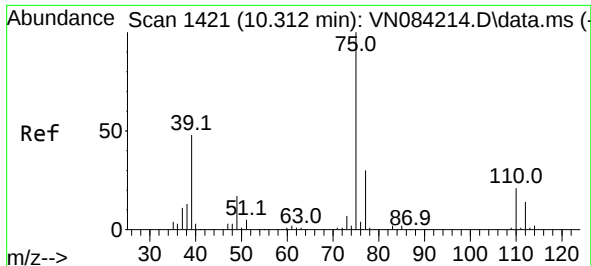
Tgt Ion: 43 Resp: 8844
Ion Ratio Lower Upper
43 100
58 22.3 31.6 47.4#



#53
t-1,3-Dichloropropene
Concen: 0.200 ug/l
RT: 10.730 min Scan# 1492
Delta R.T. -0.106 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Tgt Ion: 75 Resp: 644
Ion Ratio Lower Upper
75 100
77 0.0 25.4 38.0#

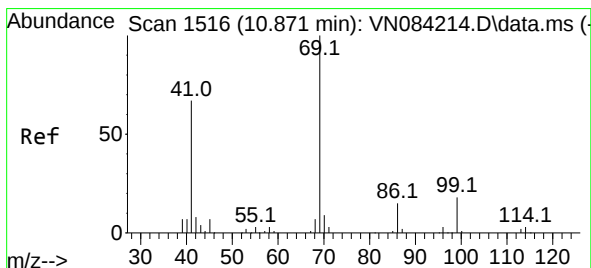
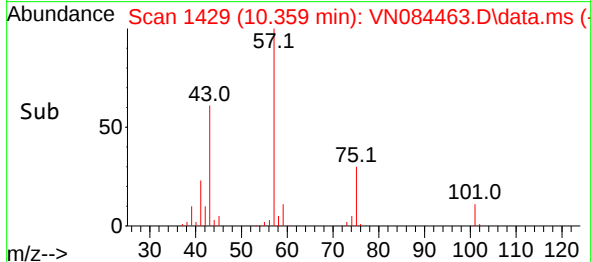
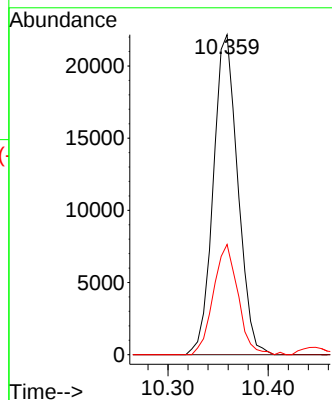
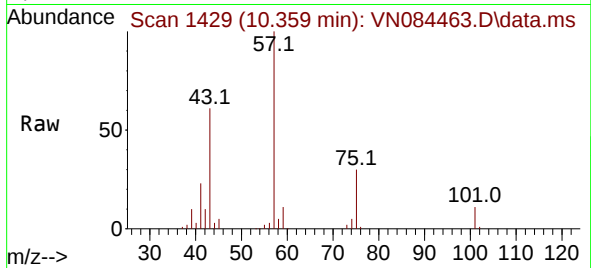




#54
cis-1,3-Dichloropropene
Concen: 10.880 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

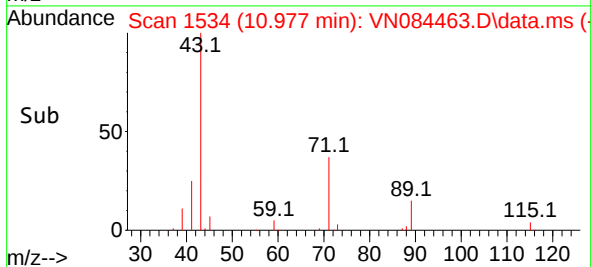
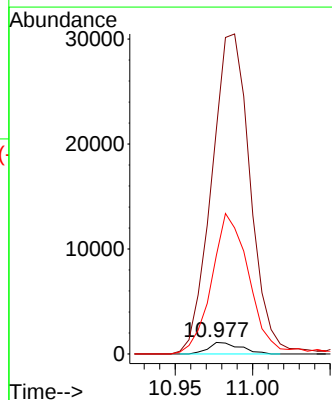
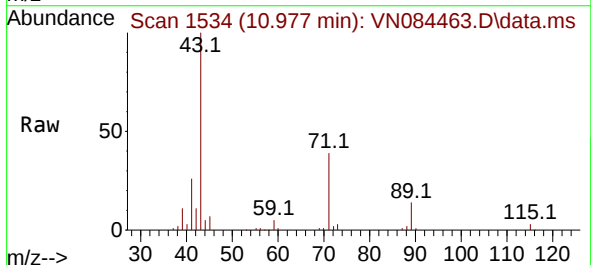
Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

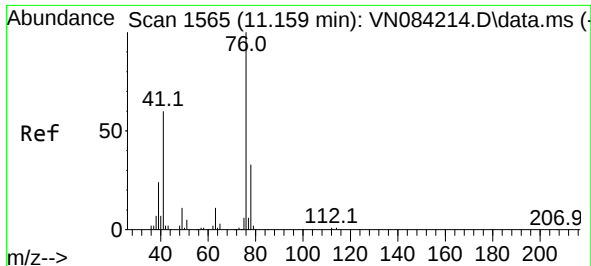
Tgt Ion: 75 Resp: 37640
Ion Ratio Lower Upper
75 100
77 0.0 24.2 36.2#
39 34.5 38.7 58.1#



#56
Ethyl methacrylate
Concen: 0.492 ug/l
RT: 10.977 min Scan# 1534
Delta R.T. 0.106 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Tgt Ion: 69 Resp: 1576
Ion Ratio Lower Upper
69 100
41 3362.4 53.3 79.9#
39 1445.5 28.8 43.2#





#57

1,3-Dichloropropane

Concen: 1.313 ug/l

RT: 11.200 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN084463.D

Acq: 22 Oct 2024 18:46

Instrument :

MSVOA_N

ClientSampleId :

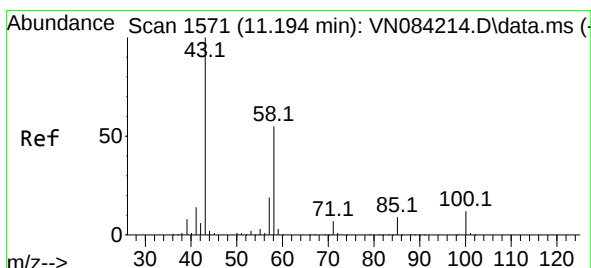
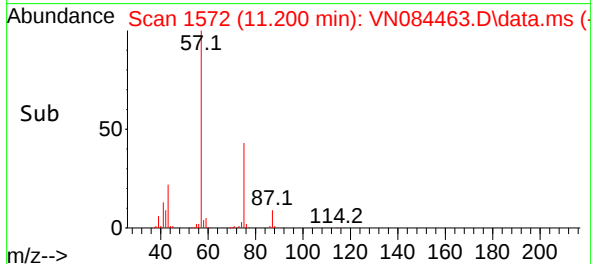
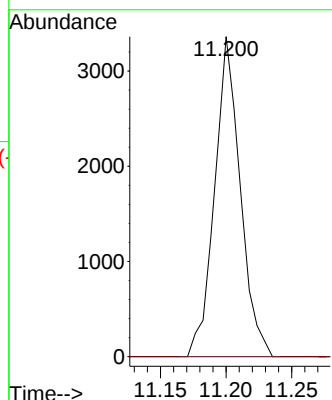
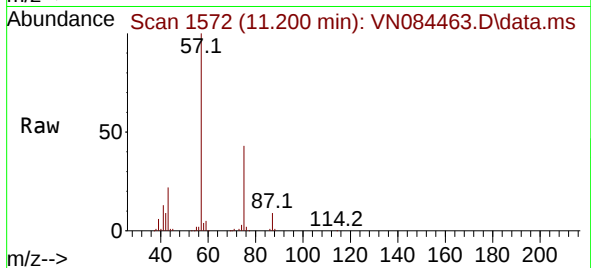
WB-303-BOT

Tgt Ion: 76 Resp: 4563

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.6#



#59

2-Hexanone

Concen: 44.048 ug/l

RT: 11.171 min Scan# 1567

Delta R.T. -0.023 min

Lab File: VN084463.D

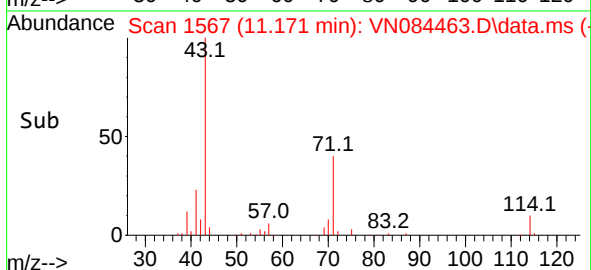
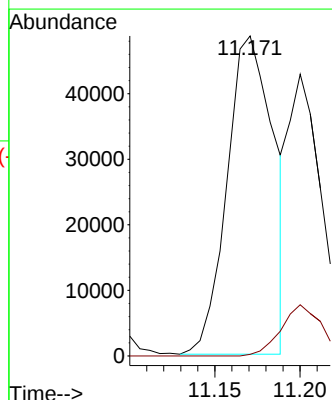
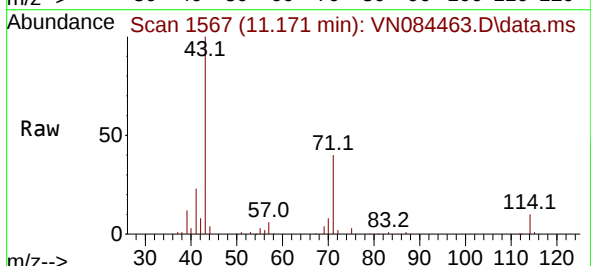
Acq: 22 Oct 2024 18:46

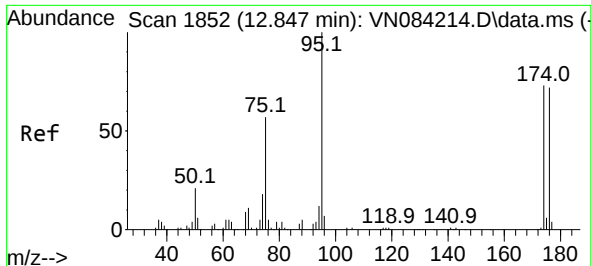
Tgt Ion: 43 Resp: 91806

Ion Ratio Lower Upper

43 100

58 0.0 27.3 81.8#

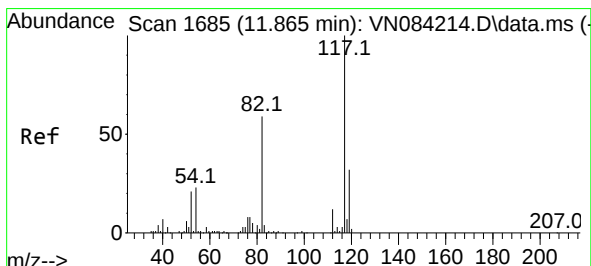
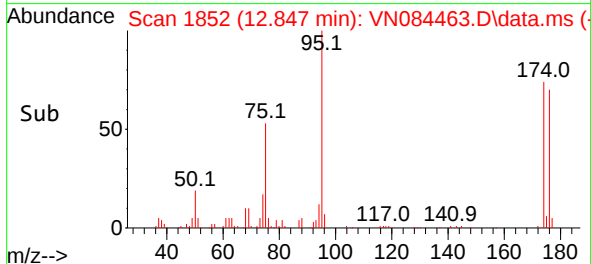
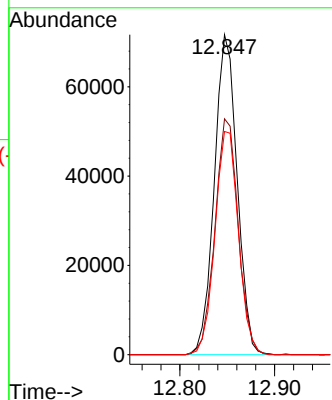
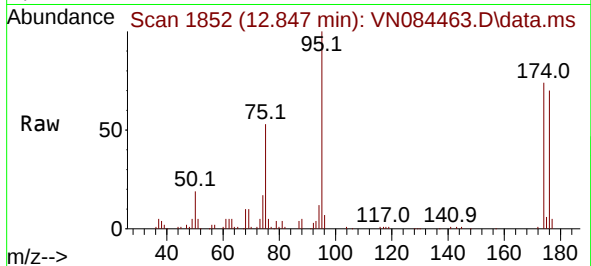




#62
4-Bromofluorobenzene
Concen: 45.522 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

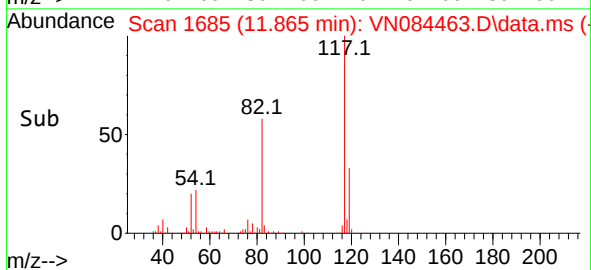
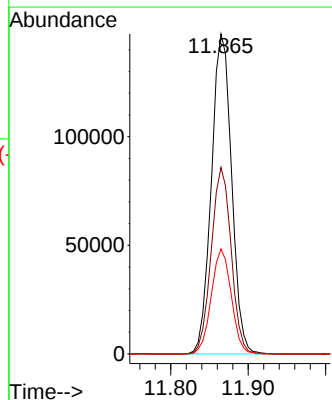
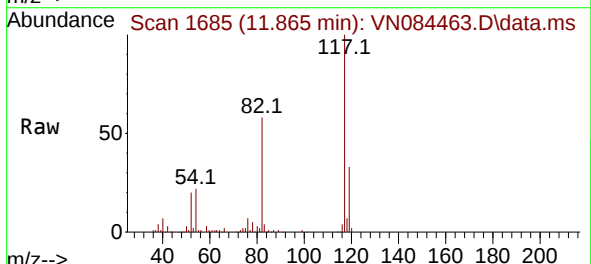
Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

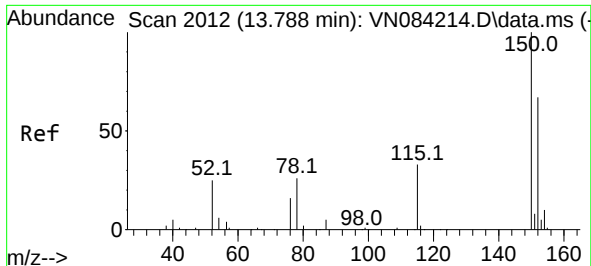
Tgt Ion: 95 Resp: 119941
Ion Ratio Lower Upper
95 100
174 75.3 0.0 145.2
176 71.7 0.0 140.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Tgt Ion: 117 Resp: 267301
Ion Ratio Lower Upper
117 100
82 58.3 47.2 70.8
119 32.8 25.4 38.0

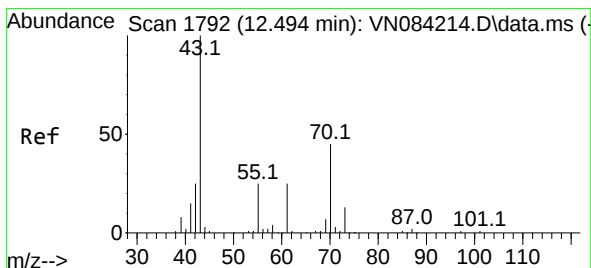
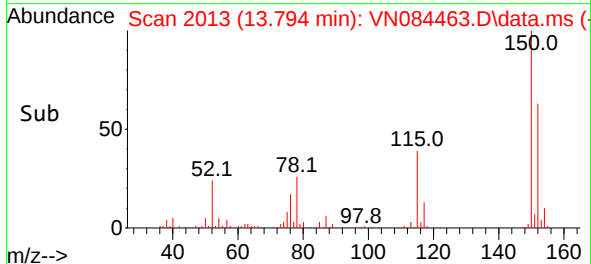
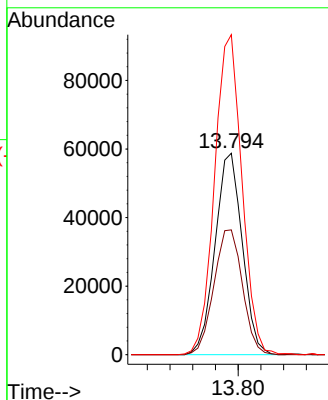
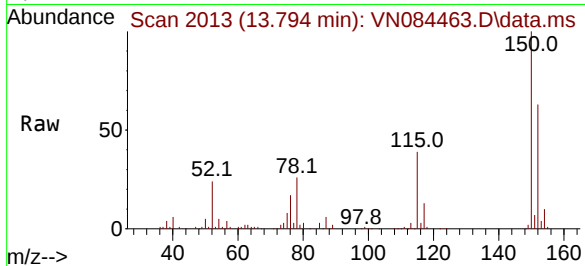




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.794 min Scan# 2012
Delta R.T. 0.006 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

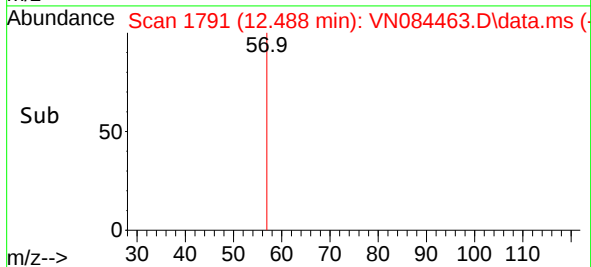
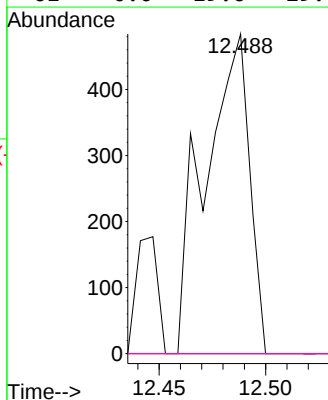
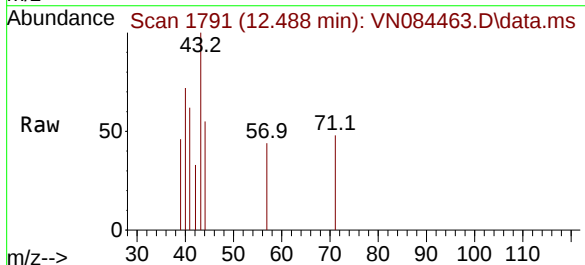
Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

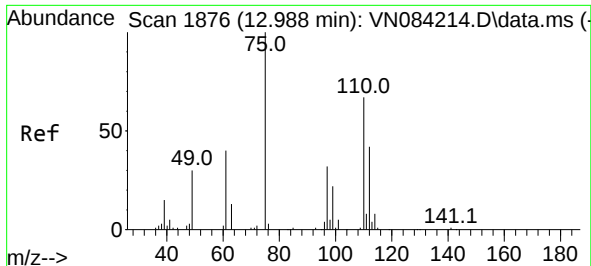
Tgt Ion:152 Resp: 97626
Ion Ratio Lower Upper
152 100
115 65.0 31.3 93.9
150 160.3 0.0 349.8



#74
N-ethyl acetate
Concen: 0.208 ug/l
RT: 12.488 min Scan# 1791
Delta R.T. -0.006 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Tgt Ion: 43 Resp: 702
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#

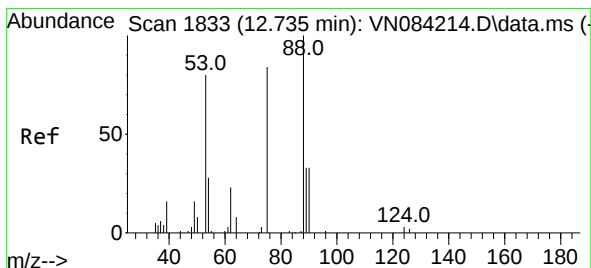
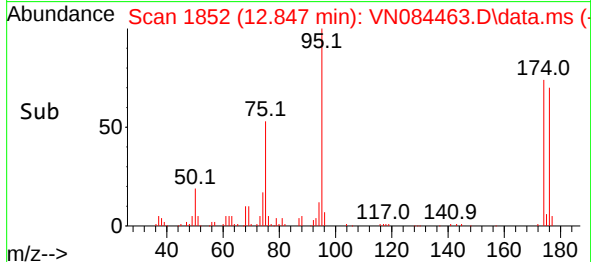
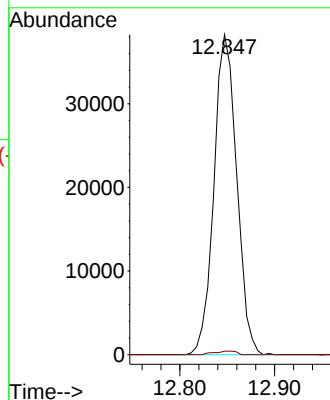
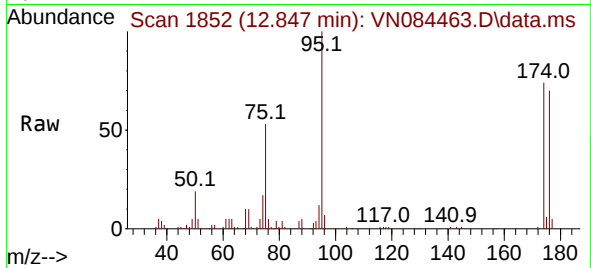




#76
1,2,3-Trichloropropane
Concen: 32.038 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

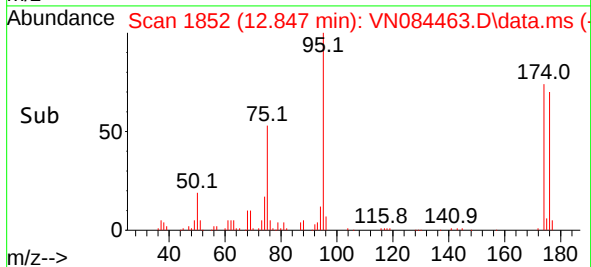
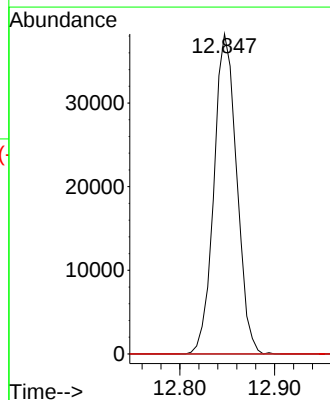
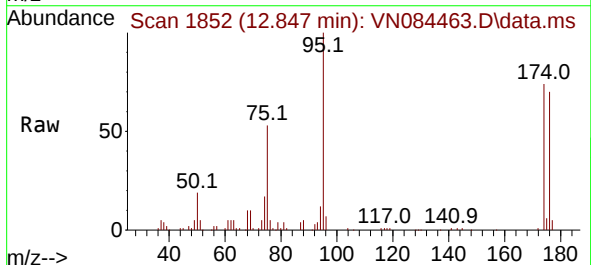
Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT

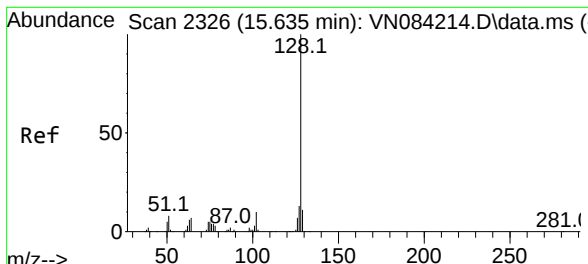
Tgt Ion: 75 Resp: 63854
Ion Ratio Lower Upper
75 100
77 1.1 96.9 290.7#



#81
trans-1,4-Dichloro-2-butene
Concen: 76.810 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

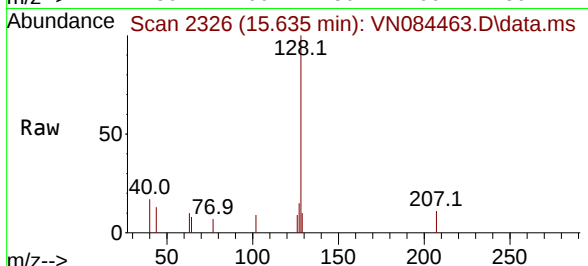
Tgt Ion: 75 Resp: 63854
Ion Ratio Lower Upper
75 100
53 0.0 78.0 117.0#
89 0.0 35.5 53.3#





#95
Naphthalene
Concen: 0.874 ug/l
RT: 15.635 min Scan# 21
Delta R.T. 0.000 min
Lab File: VN084463.D
Acq: 22 Oct 2024 18:46

Instrument :
MSVOA_N
ClientSampleId :
WB-303-BOT



Tgt Ion:	128	Resp:	4717
Ion	Ratio	Lower	Upper
128	100		
127	11.7	10.5	15.7
129	10.3	8.7	13.1

