

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
 Data File : VN084350.D
 Acq On : 08 Oct 2024 15:41
 Operator : JC\MD
 Sample : P4337-01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Oct 09 02:31:33 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Oct 09 02:21:08 2024
 Response via : Initial Calibration

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

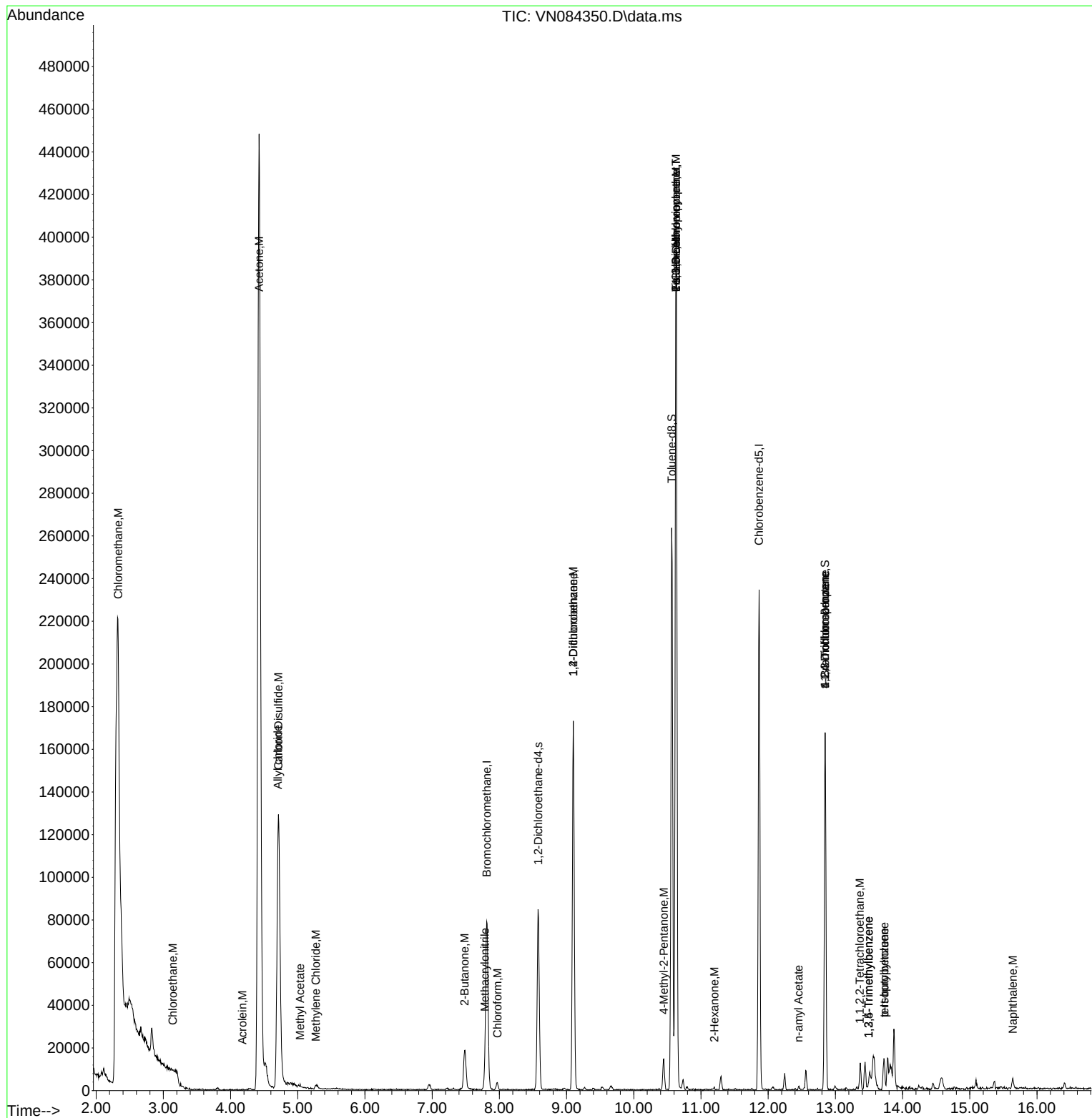
Internal Standards						
1) Bromochloromethane	7.812	128	27666	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	141573	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	132782	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.577	65	69132	31.038	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	103.467%
60) 4-Bromofluorobenzene	12.847	95	58382	26.641	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	88.800%
63) Toluene-d8	10.565	98	180120	29.281	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	97.600%
Target Compounds						
					Qvalue	
3) Chloromethane	2.330	50	11253	5.854	ug/l #	42
6) Chloroethane	3.142	64	972	0.787	ug/l #	40
12) Methyl Acetate	5.036	43	565	0.262	ug/l #	51
13) Acrolein	4.177	56	132	0.329	ug/l #	62
15) Acetone	4.424	58	266376	962.443	ug/l	88
16) Carbon Disulfide	4.712	76	4429	0.863	ug/l #	75
17) Allyl chloride	4.706	41	22417	8.028	ug/l	74
18) Methylene Chloride	5.271	84	935	0.482	ug/l #	50
25) Chloroform	7.971	83	3375	0.967	ug/l	89
30) 2-Butanone	7.483	43	31962	25.831	ug/l	98
35) Methacrylonitrile	7.782	41	681	0.516	ug/l #	24
36) 1,2-Dichloroethane	9.100	62	5048	2.082	ug/l #	75
47) n-amyl Acetate	12.453	43	1385	0.390	ug/l #	49
48) t-1,3-Dichloropropene	10.629	75	2270	0.835	ug/l #	1
49) cis-1,3-Dichloropropene	10.629	75	2270	0.796	ug/l #	1
55) 2-Chloroethyl vinyl ether	10.629	63	20494	16.415	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	10647	4.304	ug/l #	93
59) 2-Hexanone	11.200	43	481	0.262	ug/l #	80
62) Toluene	10.629	91	312986	40.264	ug/l	99
71) 1,1,2,2-Tetrachloroethane	13.364	83	828	0.340	ug/l #	42
72) 1,2,3-Trichloropropane	12.847	75	30993	14.839	ug/l	1
76) 1,3,5-Trimethylbenzene	13.494	105	2113	0.318	ug/l	48
77) t-1,4-Dichloro-2-butene	12.847	75	30993	34.725	ug/l #	12
79) tert-butylbenzene	13.729	119	6514	1.150	ug/l	62
80) 1,2,4-Trimethylbenzene	13.494	105	2113	0.314	ug/l	50
82) p-Isopropyltoluene	13.729	119	6514	0.993	ug/l	96
91) Naphthalene	15.641	128	5221	0.863	ug/l #	72

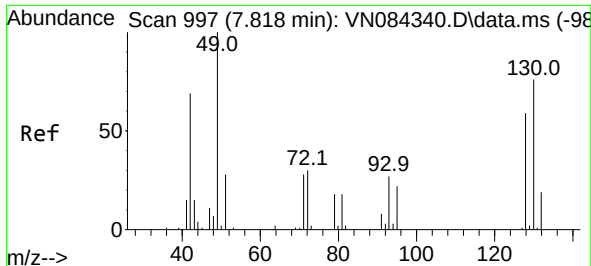
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN100824\
Data File : VN084350.D
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Sample : P4337-01
Misc : 5.0mL/MSVOA_N/WATER
ALS Vial : 15 Sample Multiplier: 1

Instrument :
MSVOA_N
ClientSampleId :

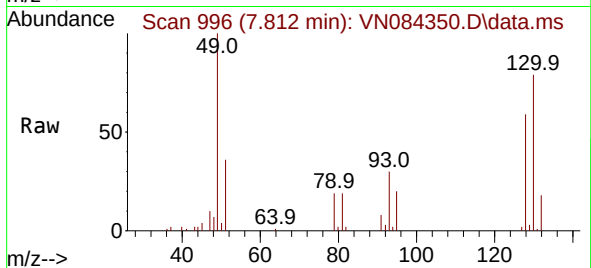
Quant Time: Oct 09 02:31:33 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N100824W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Wed Oct 09 02:21:08 2024
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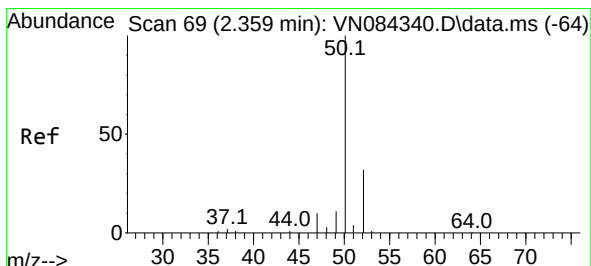
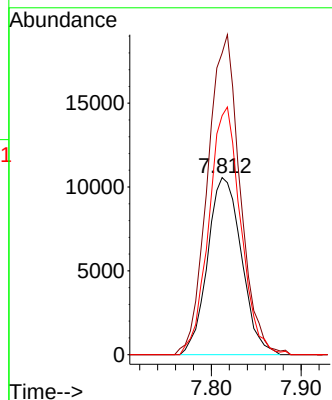
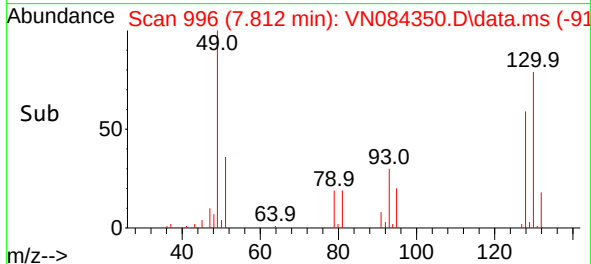


#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 7.812 min Scan# 91
Delta R.T. -0.006 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Instrument :
MSVOA_N
ClientSampleId :

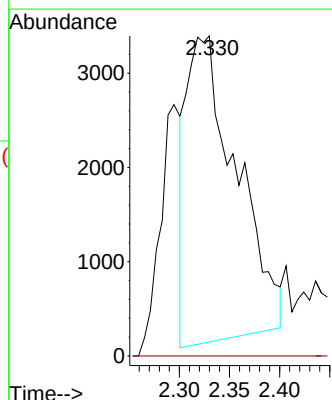
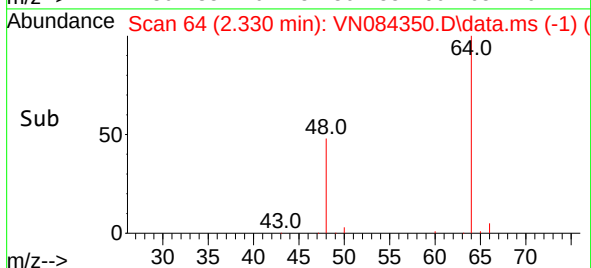
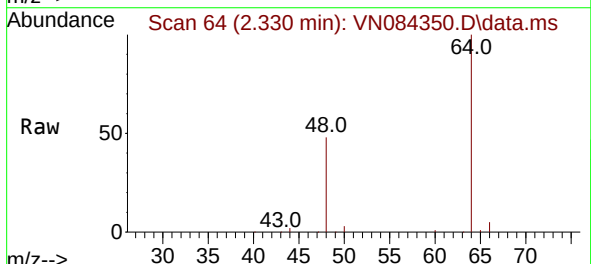


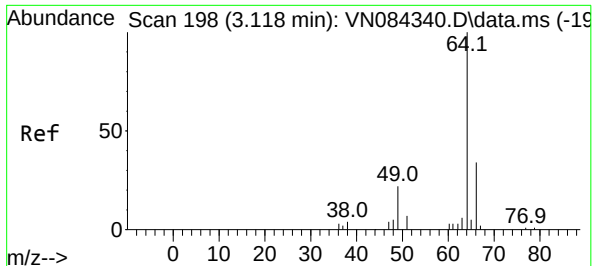
Tgt Ion:128 Resp: 27666
Ion Ratio Lower Upper
128 100
49 173.3 0.0 430.0
130 131.6 0.0 329.8



#3
Chloromethane
Concen: 5.854 ug/l
RT: 2.330 min Scan# 64
Delta R.T. -0.029 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Tgt Ion: 50 Resp: 11253
Ion Ratio Lower Upper
50 100
52 0.0 25.8 38.6#

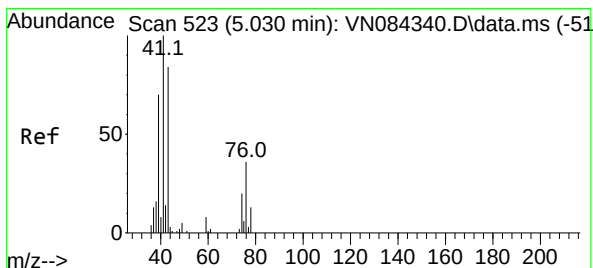
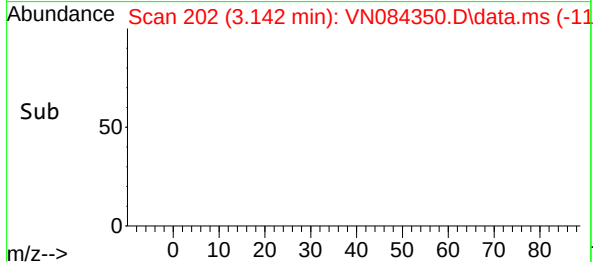
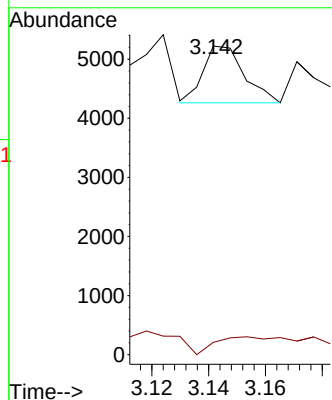
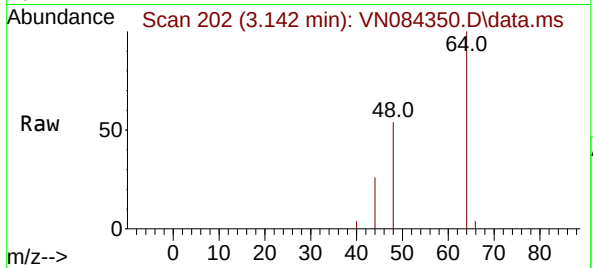




#6
Chloroethane
Concen: 0.787 ug/l
RT: 3.142 min Scan# 20
Delta R.T. 0.023 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

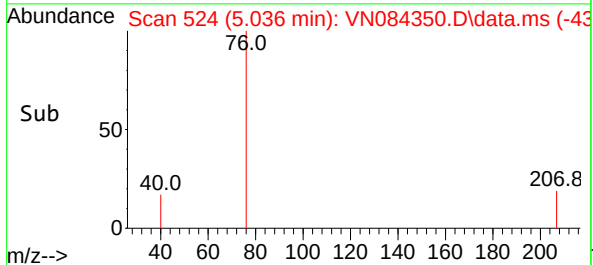
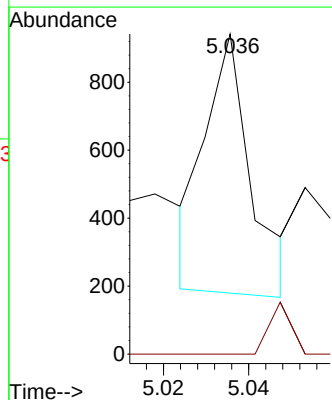
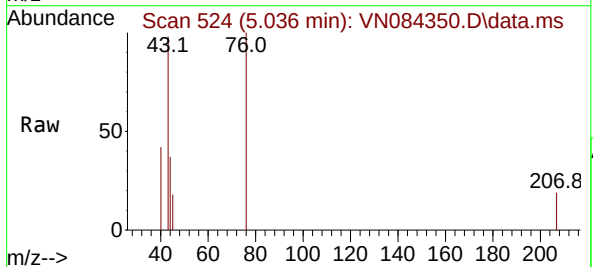
Instrument :
MSVOA_N
ClientSampleId :

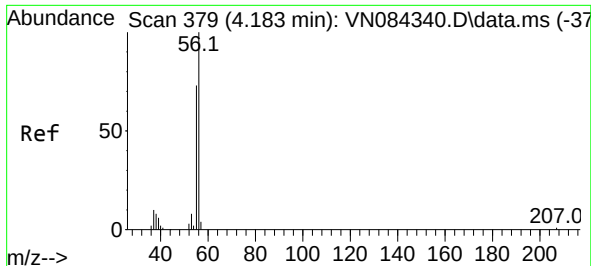
Tgt Ion: 64 Resp: 972
Ion Ratio Lower Upper
64 100
66 0.0 27.7 41.5#



#12
Methyl Acetate
Concen: 0.262 ug/l
RT: 5.036 min Scan# 524
Delta R.T. 0.006 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

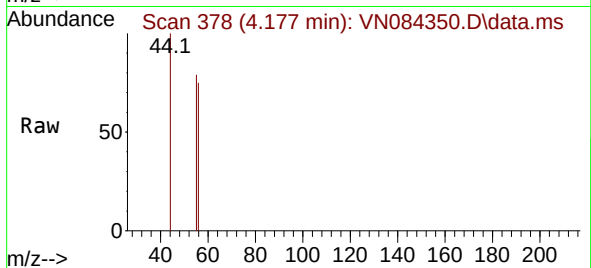
Tgt Ion: 43 Resp: 565
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.2#



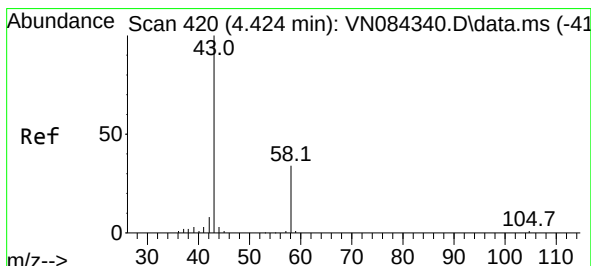
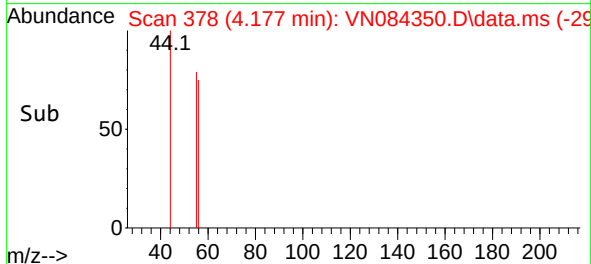
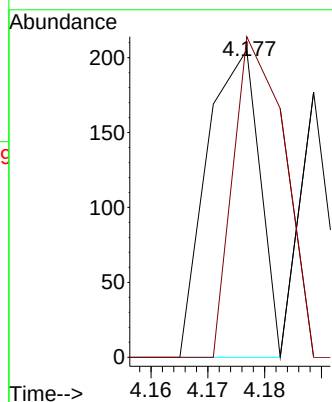


#13
Acrolein
Concen: 0.329 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Instrument :
MSVOA_N
ClientSampleId :

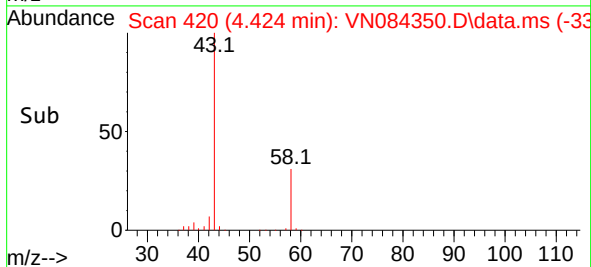
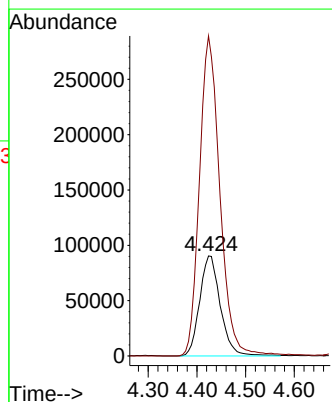
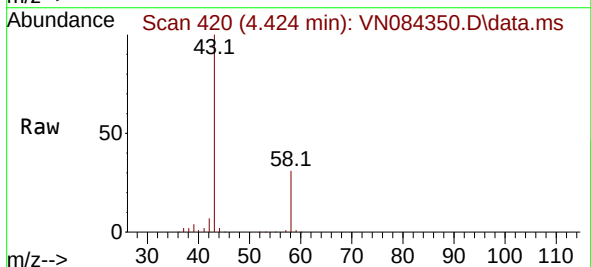


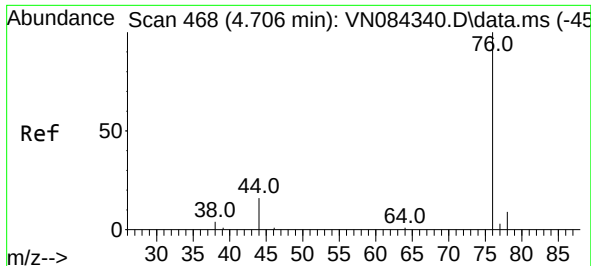
Tgt Ion: 56 Resp: 132
Ion Ratio Lower Upper
56 100
55 101.5 56.4 84.6#



#15
Acetone
Concen: 962.443 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Tgt Ion: 58 Resp: 266376
Ion Ratio Lower Upper
58 100
43 319.6 237.5 356.3

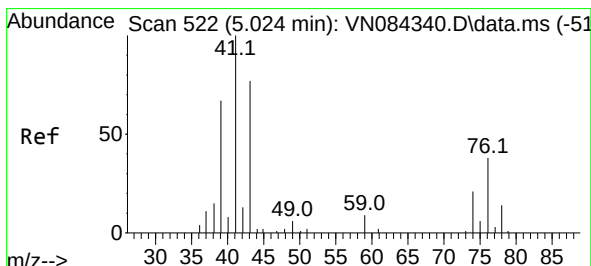
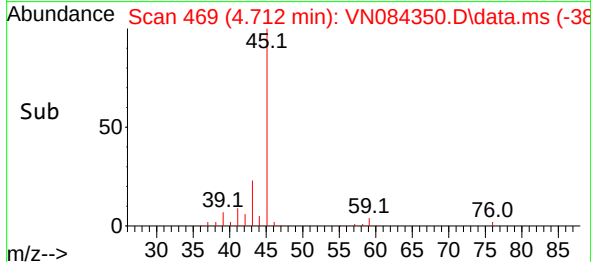
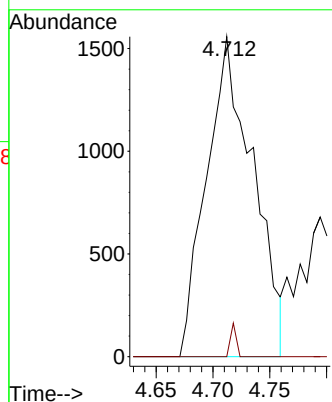
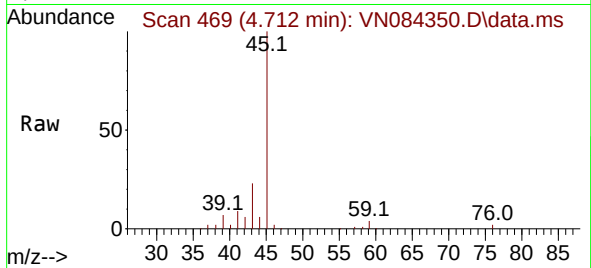




#16
Carbon Disulfide
Concen: 0.863 ug/l
RT: 4.712 min Scan# 4
Delta R.T. 0.006 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

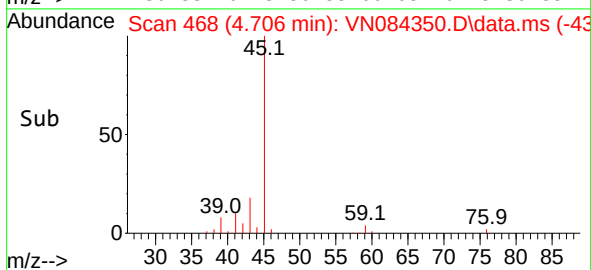
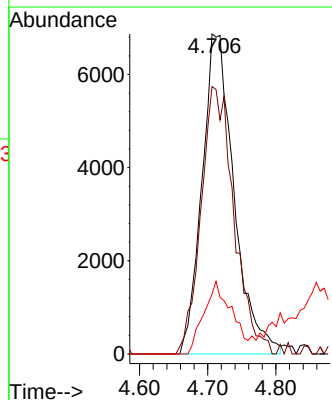
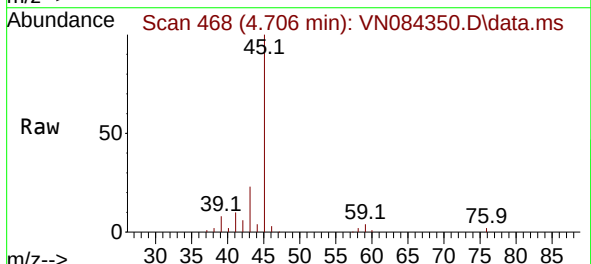
Instrument :
MSVOA_N
ClientSampleId :

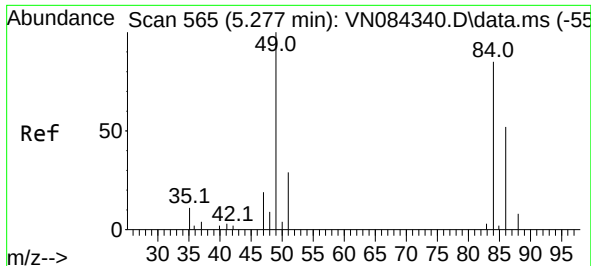
Tgt Ion: 76 Resp: 4429
Ion Ratio Lower Upper
76 100
78 0.0 7.1 10.7#



#17
Allyl chloride
Concen: 8.028 ug/l
RT: 4.706 min Scan# 468
Delta R.T. -0.318 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

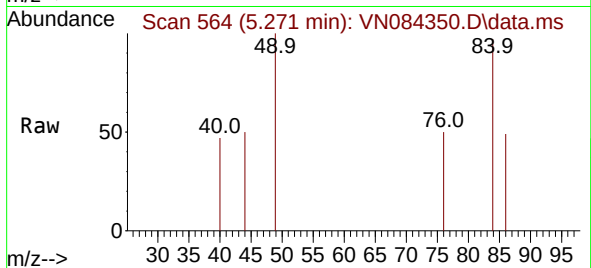
Tgt Ion: 41 Resp: 22417
Ion Ratio Lower Upper
41 100
39 81.2 31.4 94.3
76 18.8 17.8 53.5



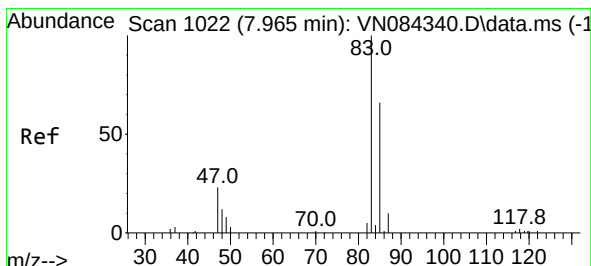
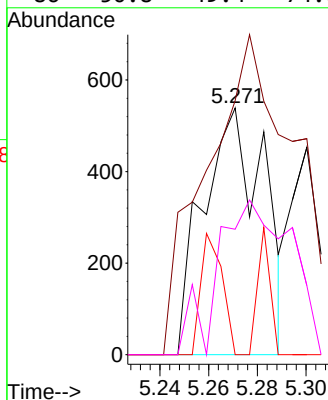
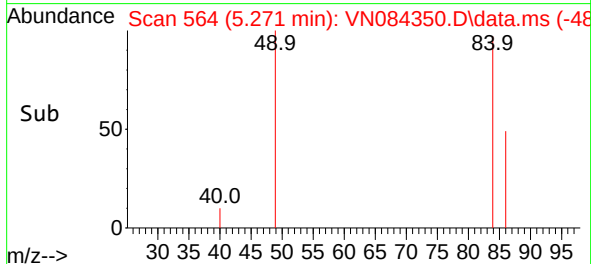


#18
Methylene Chloride
Concen: 0.482 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Instrument :
MSVOA_N
ClientSampleId :

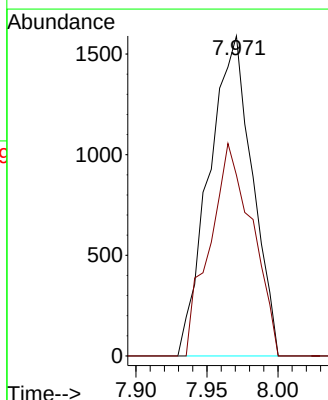
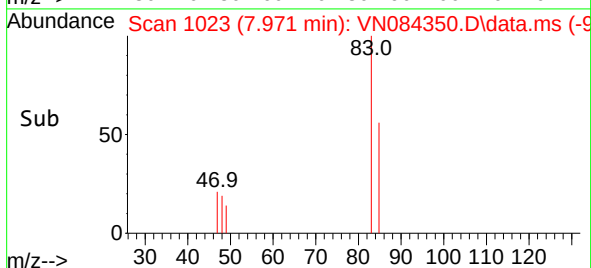
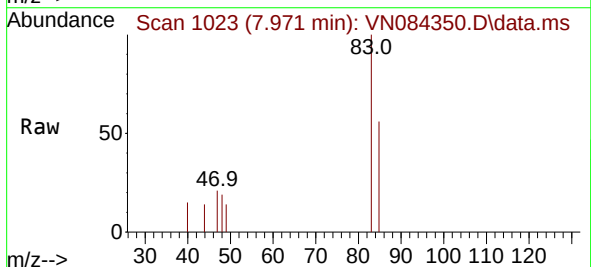


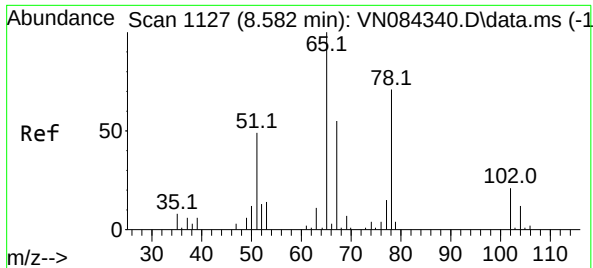
Tgt Ion: 84	Resp: 935
Ion Ratio	Lower Upper
84 100	
49 45.3	94.6 142.0#
51 0.0	27.3 40.9#
86 50.8	49.4 74.0



#25
Chloroform
Concen: 0.967 ug/l
RT: 7.971 min Scan# 1023
Delta R.T. 0.006 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Tgt Ion: 83	Resp: 3375		
Ion Ratio	Lower	Upper	
83 100			
85 56.5	52.4	78.6	

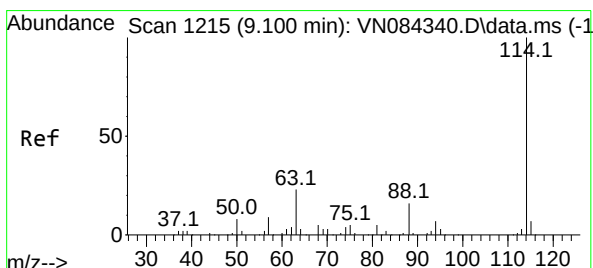
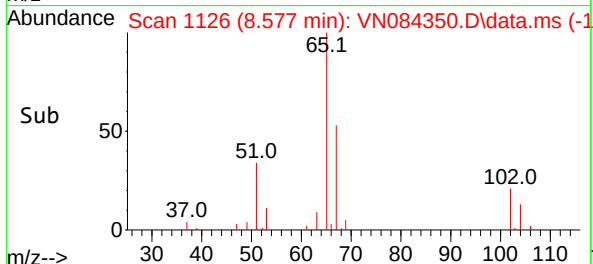
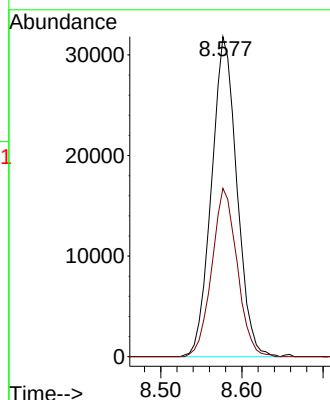
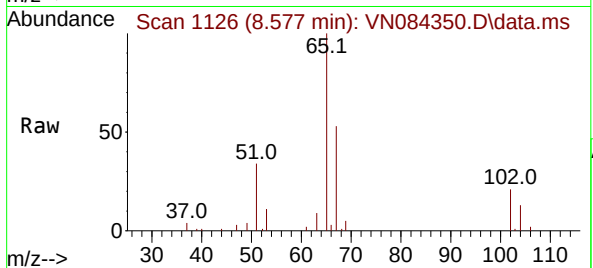




#27
1,2-Dichloroethane-d4
Concen: 31.038 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.006 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

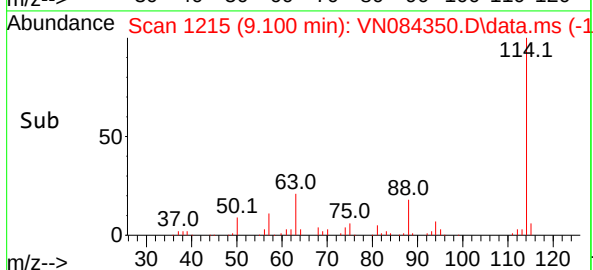
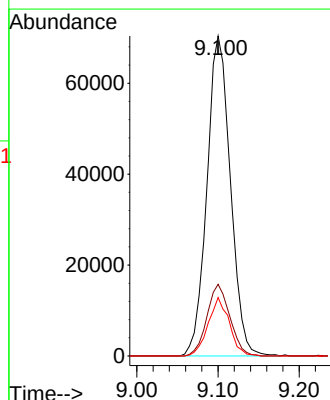
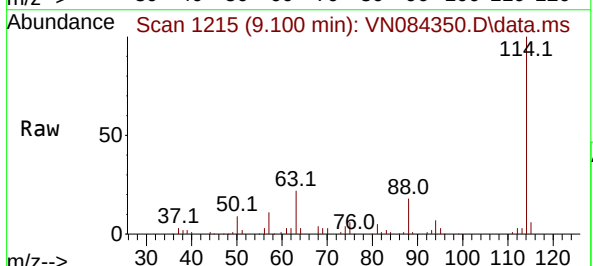
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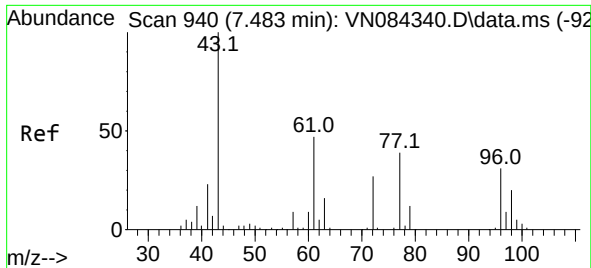
Tgt Ion: 65 Resp: 69132
Ion Ratio Lower Upper
65 100
67 52.4 41.5 62.3



#28
1,4-Difluorobenzene
Concen: 30.000 ug/l
RT: 9.100 min Scan# 1215
Delta R.T. -0.000 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Tgt Ion:114 Resp: 141573
Ion Ratio Lower Upper
114 100
63 21.8 17.4 26.0
88 16.5 13.2 19.8

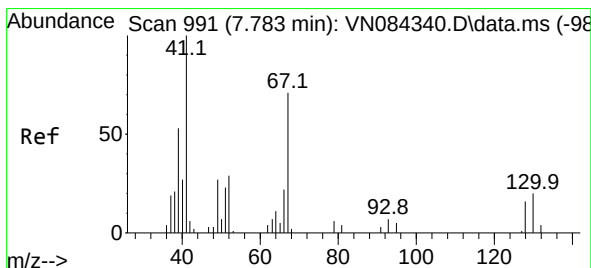
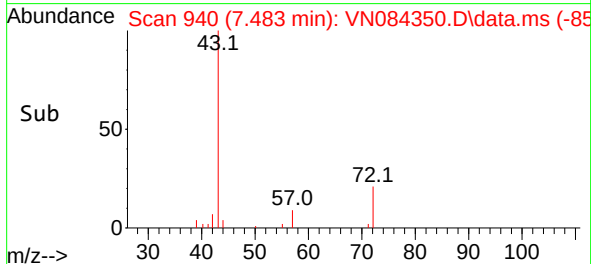
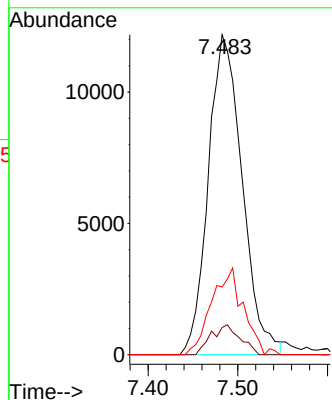
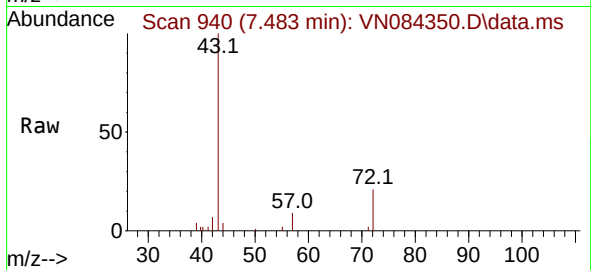




#30
2-Butanone
Concen: 25.831 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

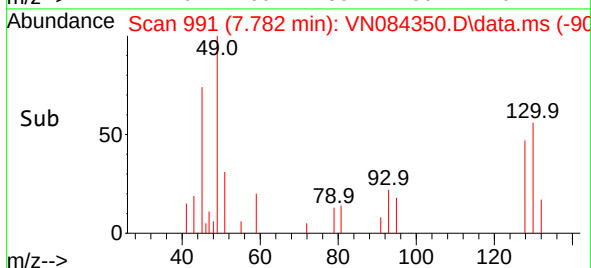
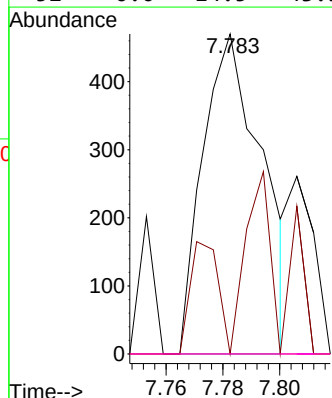
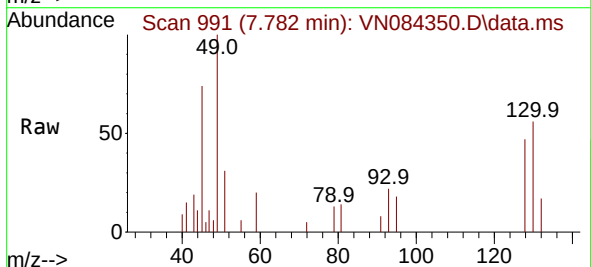
Instrument :
MSVOA_N
ClientSampleId :

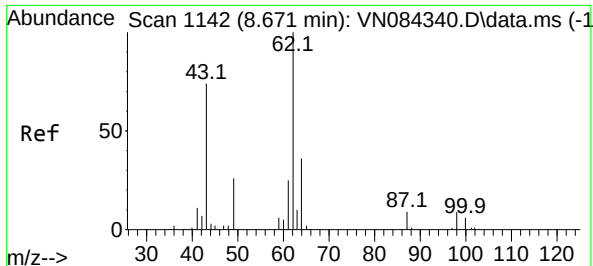
Tgt Ion: 43 Resp: 31962
Ion Ratio Lower Upper
43 100
57 8.0 6.6 9.8
72 25.1 21.3 31.9



#35
Methacrylonitrile
Concen: 0.516 ug/l
RT: 7.782 min Scan# 991
Delta R.T. -0.000 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Tgt Ion: 41 Resp: 681
Ion Ratio Lower Upper
41 100
39 0.0 26.4 79.0#
67 0.0 35.7 107.1#
52 0.0 14.5 43.5#





#36

1,2-Dichloroethane

Concen: 2.082 ug/l

RT: 9.100 min Scan# 11

Delta R.T. 0.429 min

Lab File: VN084350.D

Acq: 08 Oct 2024 15:41

Instrument :

MSVOA_N

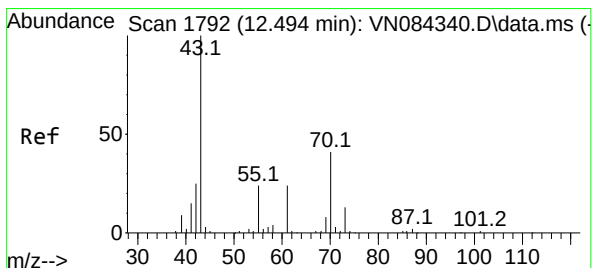
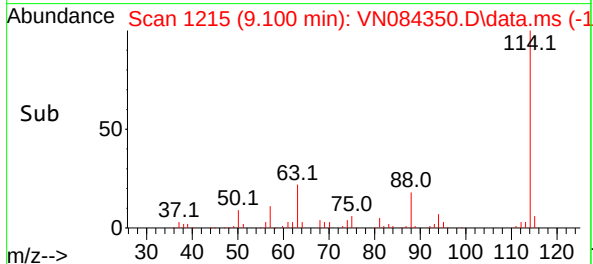
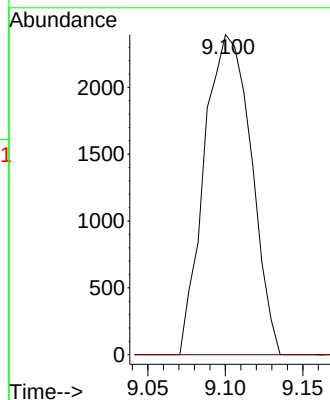
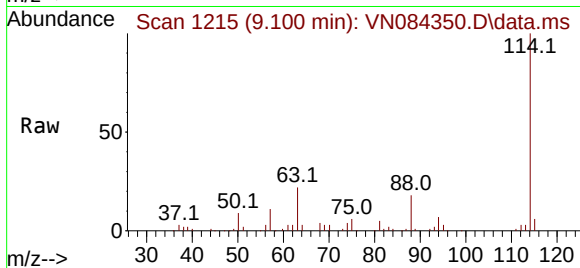
ClientSampleId :

Tgt Ion: 62 Resp: 5048

Ion Ratio Lower Upper

62 100

98 0.0 7.3 10.9#



#47

n-amy1 Acetate

Concen: 0.390 ug/l

RT: 12.453 min Scan# 1785

Delta R.T. -0.041 min

Lab File: VN084350.D

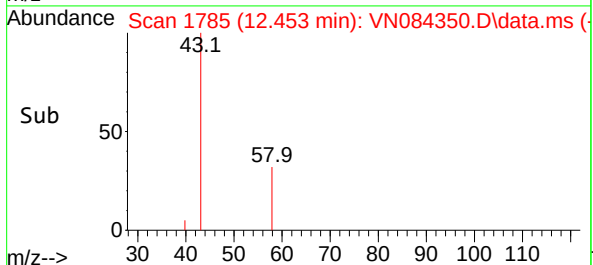
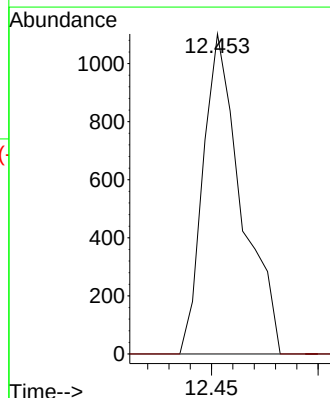
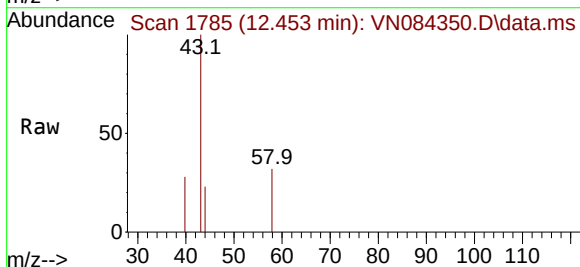
Acq: 08 Oct 2024 15:41

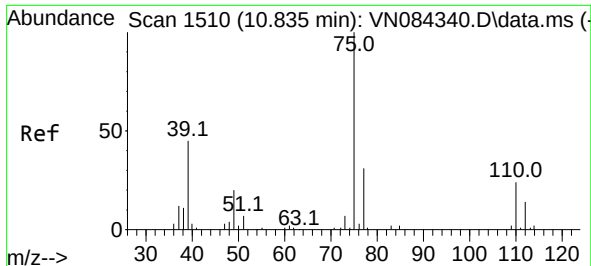
Tgt Ion: 43 Resp: 1385

Ion Ratio Lower Upper

43 100

55 0.0 20.6 31.0#

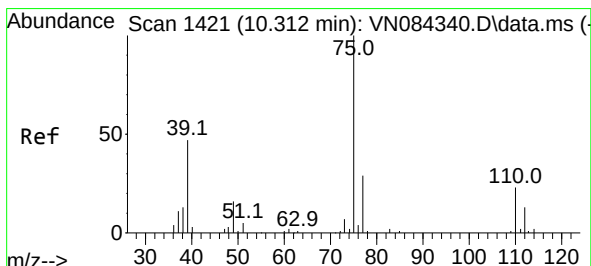
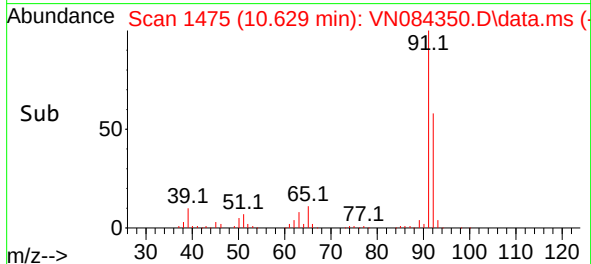
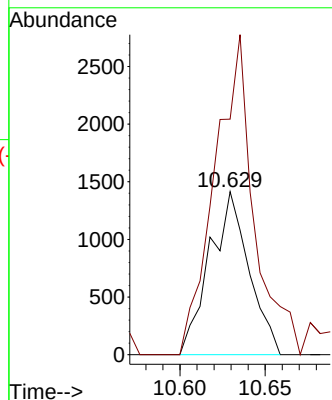
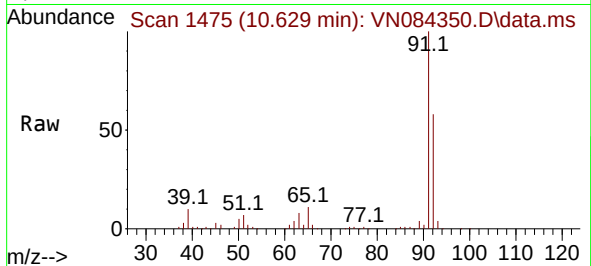




#48
t-1,3-Dichloropropene
Concen: 0.835 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.206 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

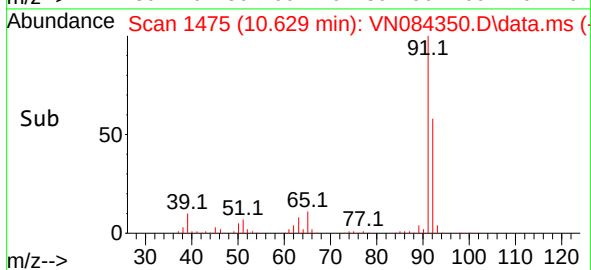
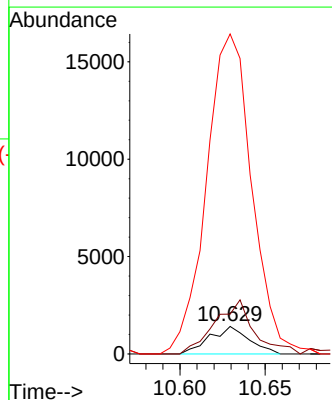
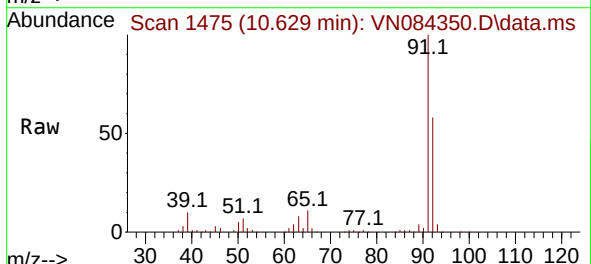
Instrument :
MSVOA_N
ClientSampleId :

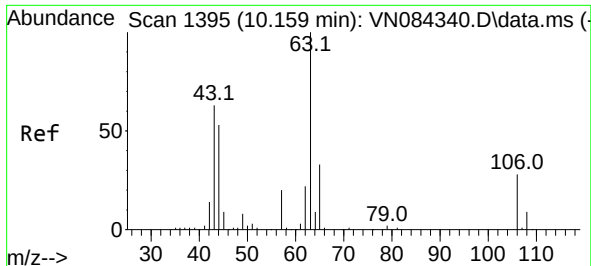
Tgt Ion: 75 Resp: 2270
Ion Ratio Lower Upper
75 100
77 144.5 24.6 37.0#



#49
cis-1,3-Dichloropropene
Concen: 0.796 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.318 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Tgt Ion: 75 Resp: 2270
Ion Ratio Lower Upper
75 100
77 144.5 22.9 34.3#
39 1104.5 37.4 56.2#

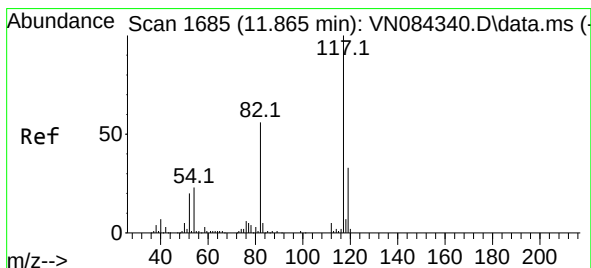
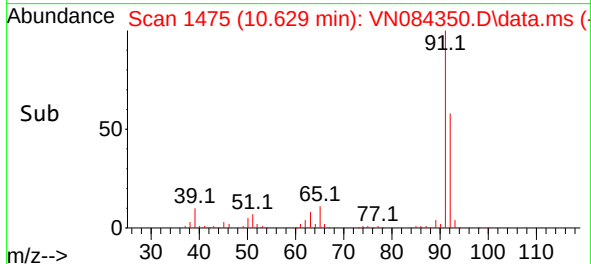
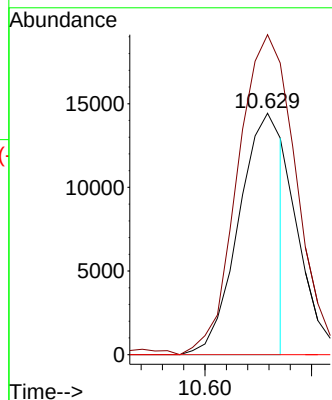
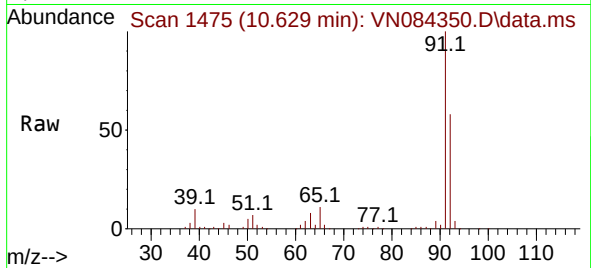




#55
2-Chloroethyl vinyl ether
Concen: 16.415 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.471 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

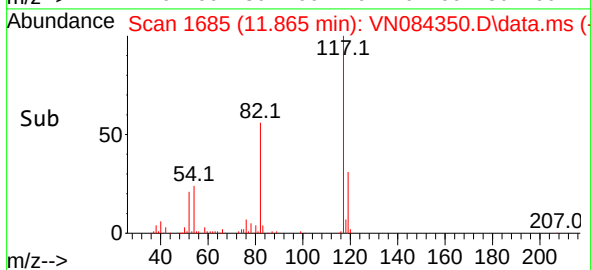
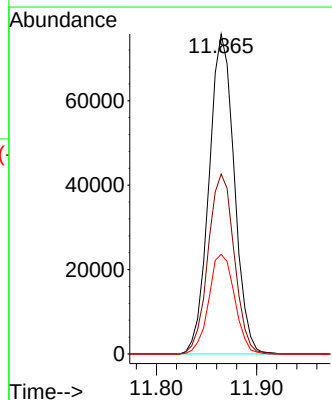
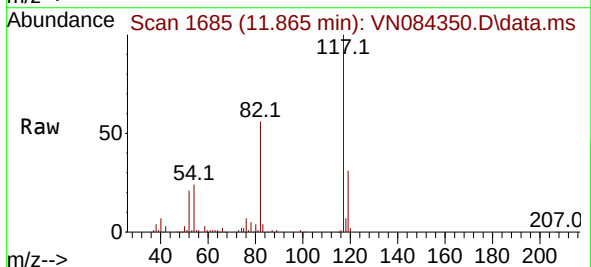
Instrument :
MSVOA_N
ClientSampleId :

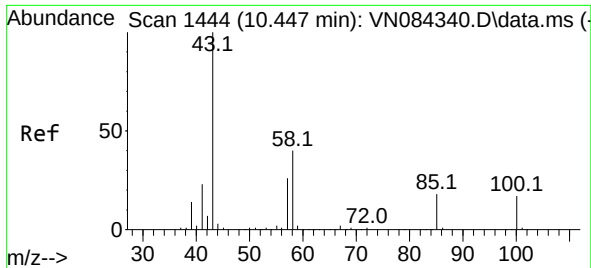
Tgt Ion: 63 Resp: 20494
Ion Ratio Lower Upper
63 100
65 136.0 25.6 38.4#
106 0.0 21.6 32.4#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

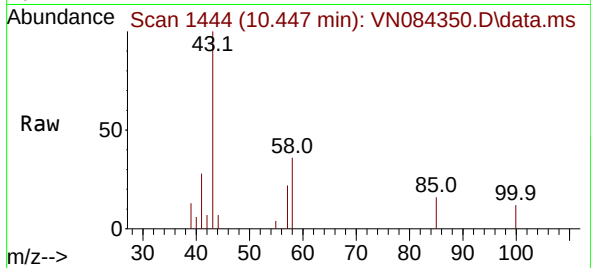
Tgt Ion:117 Resp: 132782
Ion Ratio Lower Upper
117 100
82 58.2 46.2 69.4
119 31.9 25.4 38.2



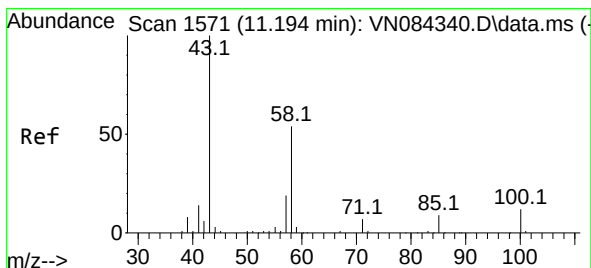
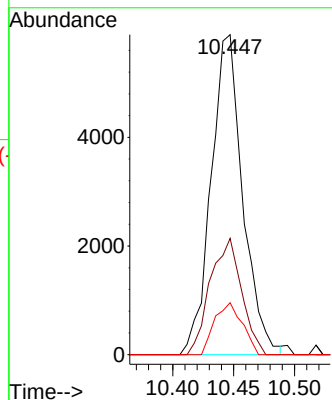
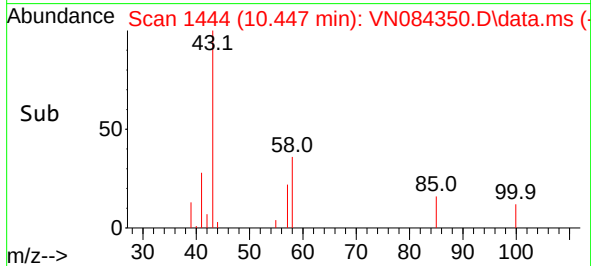


#58
4-Methyl-2-Pentanone
Concen: 4.304 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. -0.000 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Instrument :
MSVOA_N
ClientSampleId :

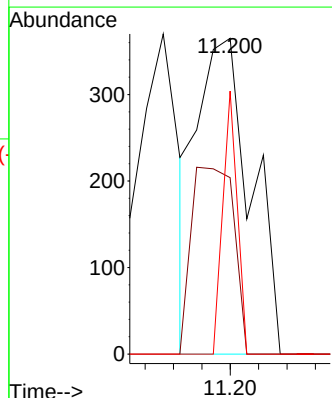
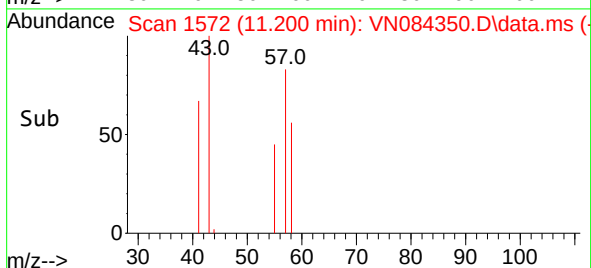
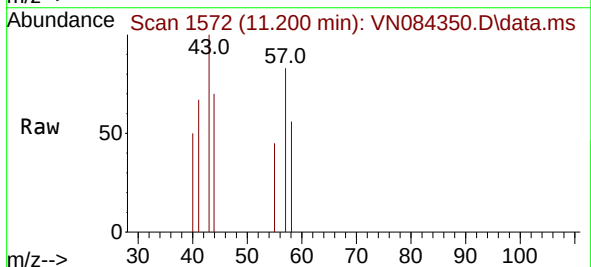


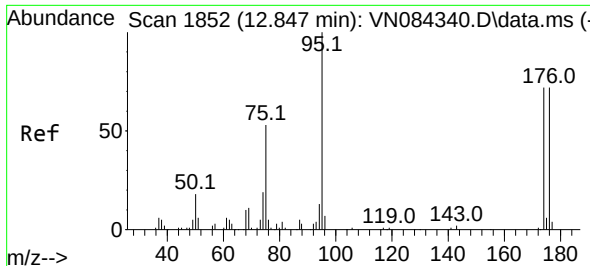
Tgt Ion	Ratio	Lower	Upper
43	100		
58	36.0	31.9	47.9
85	14.2	14.6	22.0



#59
2-Hexanone
Concen: 0.262 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Tgt Ion	Ratio	Lower	Upper
43	100		
58	46.6	44.0	66.0
57	0.0	15.4	23.2

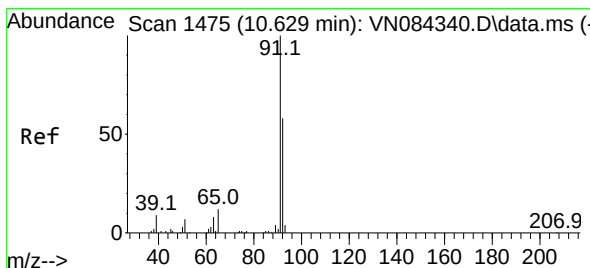
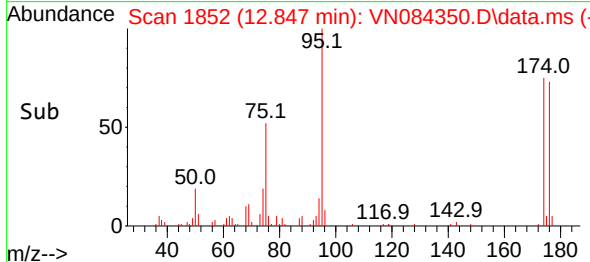
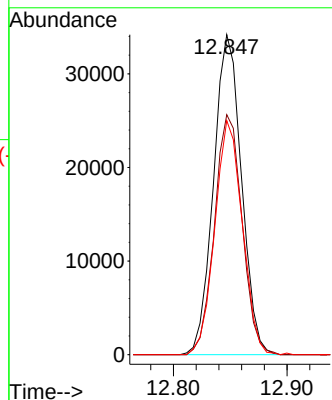
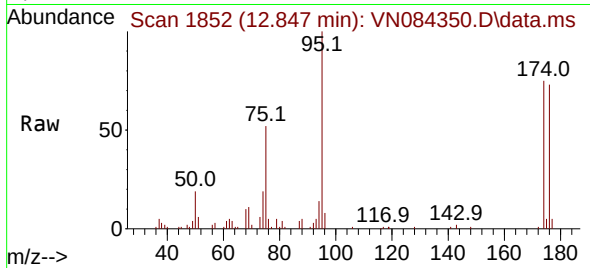




#60
4-Bromofluorobenzene
Concen: 26.641 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

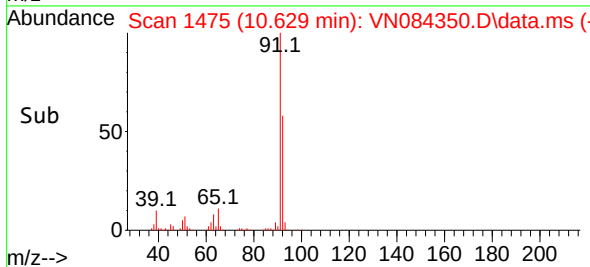
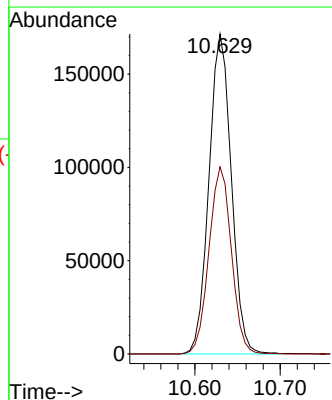
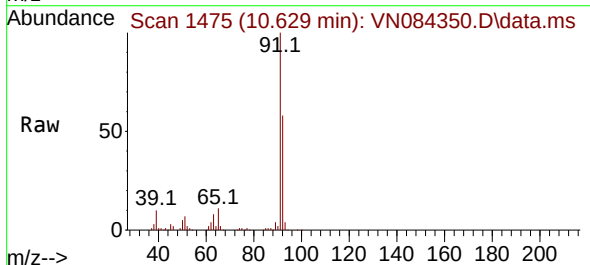
Instrument :
MSVOA_N
ClientSampleId :

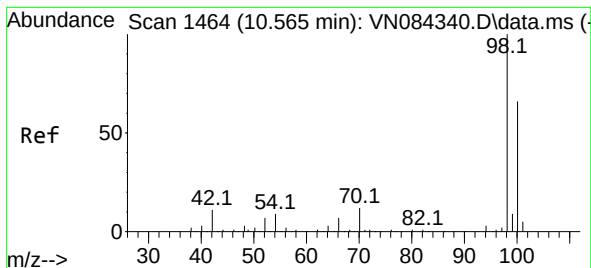
Tgt Ion: 95 Resp: 58382
Ion Ratio Lower Upper
95 100
174 74.3 58.2 87.2
176 72.1 56.4 84.6



#62
Toluene
Concen: 40.264 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. -0.000 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Tgt Ion: 91 Resp: 312986
Ion Ratio Lower Upper
91 100
92 58.6 47.2 70.8





#63

Toluene-d8

Concen: 29.281 ug/l

RT: 10.565 min Scan# 14

Delta R.T. -0.000 min

Lab File: VN084350.D

Acq: 08 Oct 2024 15:41

Instrument :

MSVOA_N

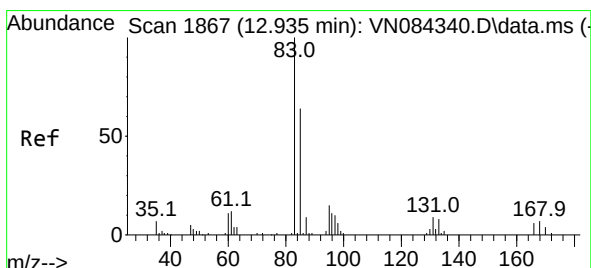
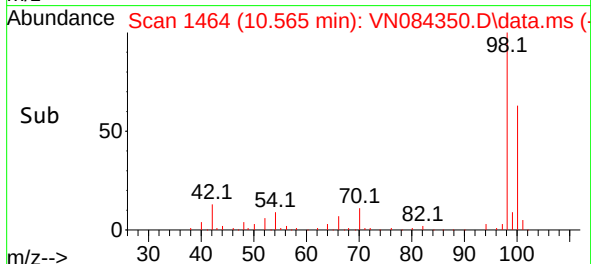
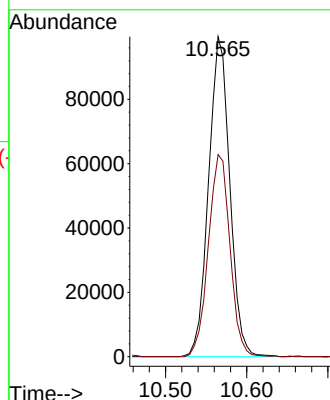
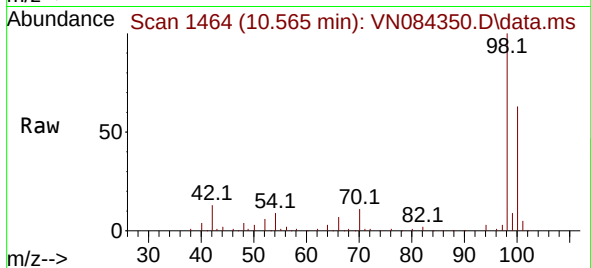
ClientSampleId :

Tgt Ion: 98 Resp: 180120

Ion Ratio Lower Upper

98 100

100 64.4 52.5 78.7



#71

1,1,2,2-Tetrachloroethane

Concen: 0.340 ug/l

RT: 13.364 min Scan# 1940

Delta R.T. 0.429 min

Lab File: VN084350.D

Acq: 08 Oct 2024 15:41

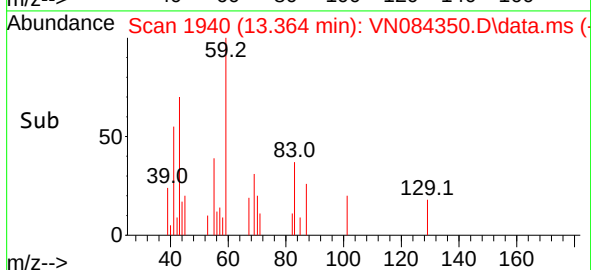
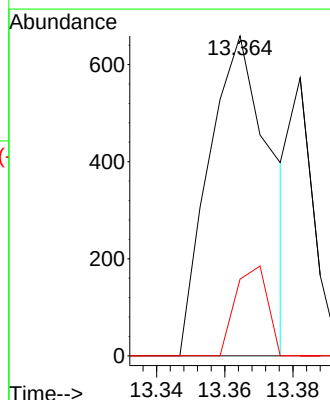
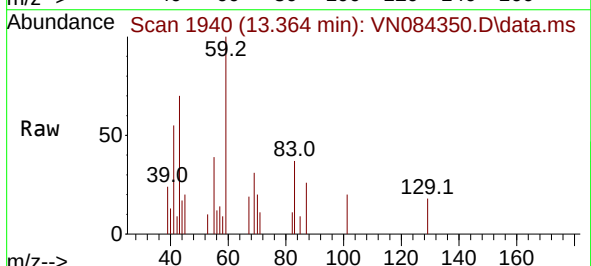
Tgt Ion: 83 Resp: 828

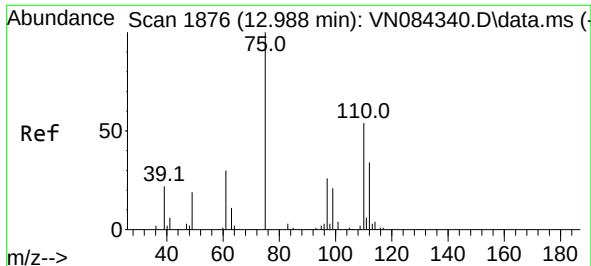
Ion Ratio Lower Upper

83 100

131 0.0 5.1 15.3#

85 14.6 32.0 96.2#

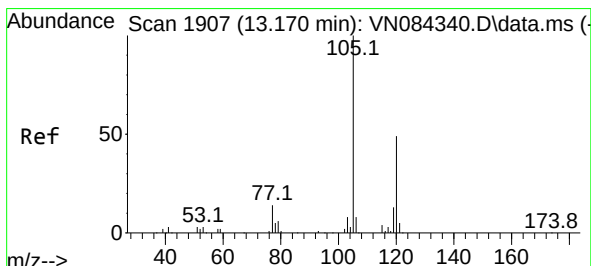
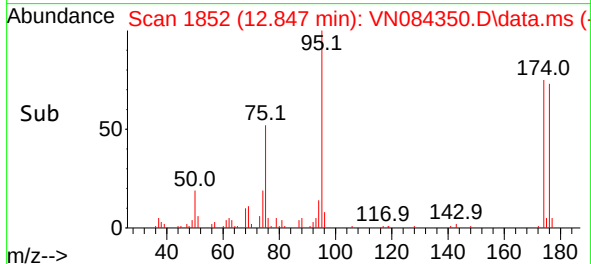
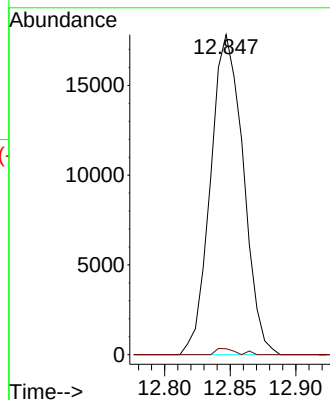
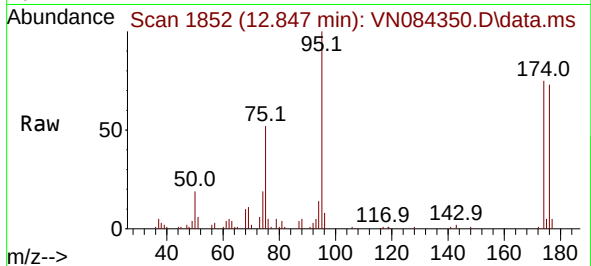




#72
1,2,3-Trichloropropane
Concen: 14.839 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.141 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

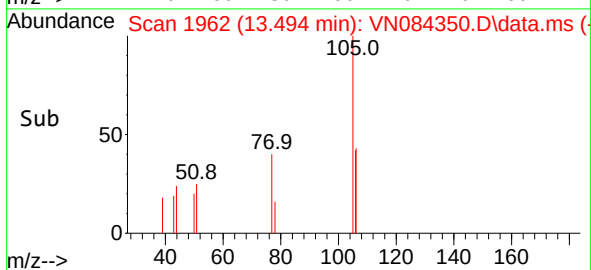
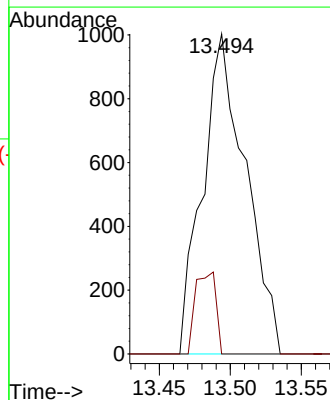
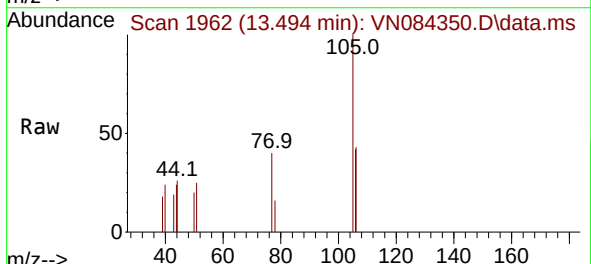
Instrument :
MSVOA_N
ClientSampleId :

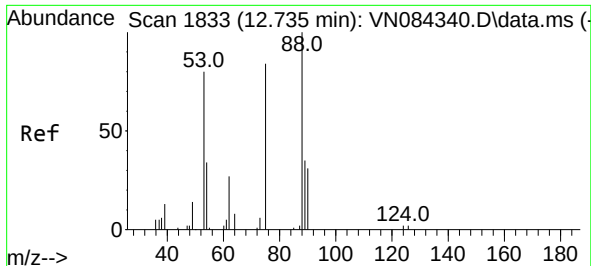
Tgt Ion: 75 Resp: 30993
Ion Ratio Lower Upper
75 100
77 1.0 0.0 414.0



#76
1,3,5-Trimethylbenzene
Concen: 0.318 ug/l
RT: 13.494 min Scan# 1962
Delta R.T. 0.323 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Tgt Ion:105 Resp: 2113
Ion Ratio Lower Upper
105 100
120 12.2 0.0 94.4





#77

t-1,4-Dichloro-2-butene

Concen: 34.725 ug/l

RT: 12.847 min Scan# 11

Delta R.T. 0.112 min

Lab File: VN084350.D

Acq: 08 Oct 2024 15:41

Instrument :

MSVOA_N

ClientSampleId :

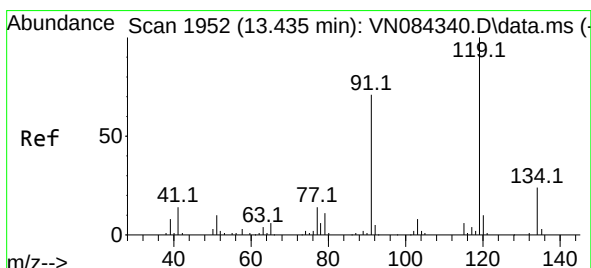
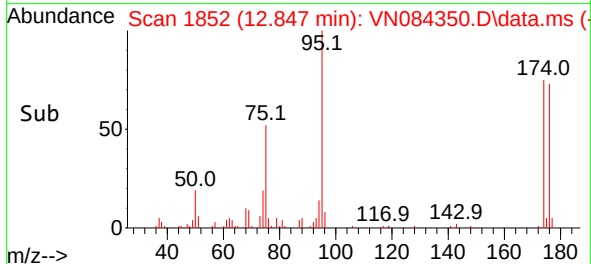
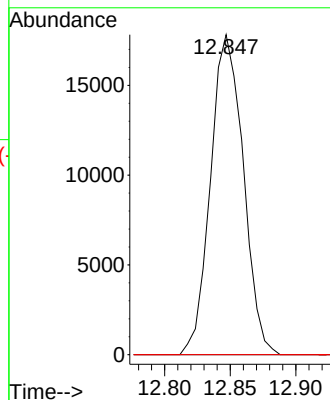
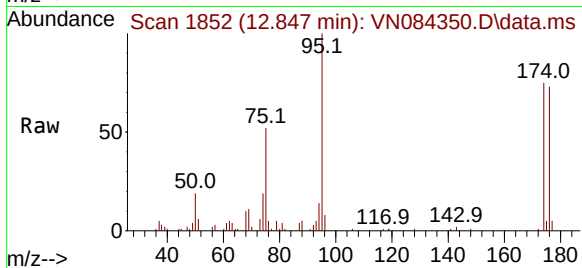
Tgt Ion: 75 Resp: 30993

Ion Ratio Lower Upper

75 100

53 0.0 47.3 142.0#

89 0.0 22.9 68.8#



#79

tert-butylbenzene

Concen: 1.150 ug/l

RT: 13.729 min Scan# 2002

Delta R.T. 0.294 min

Lab File: VN084350.D

Acq: 08 Oct 2024 15:41

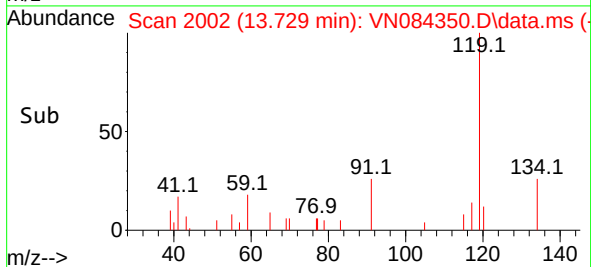
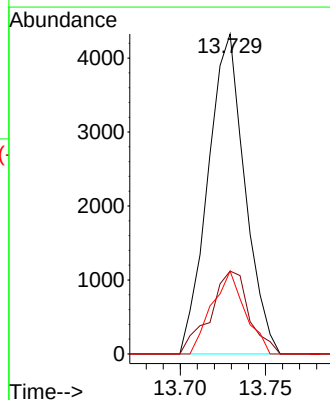
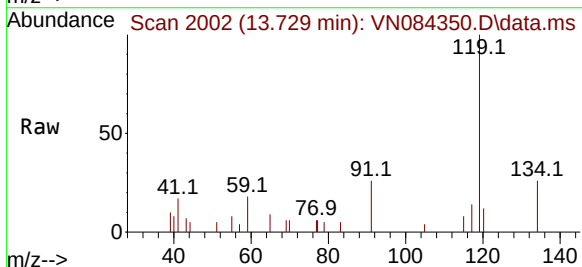
Tgt Ion: 119 Resp: 6514

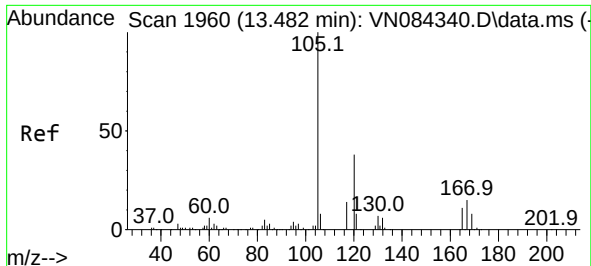
Ion Ratio Lower Upper

119 100

91 27.3 0.0 138.0

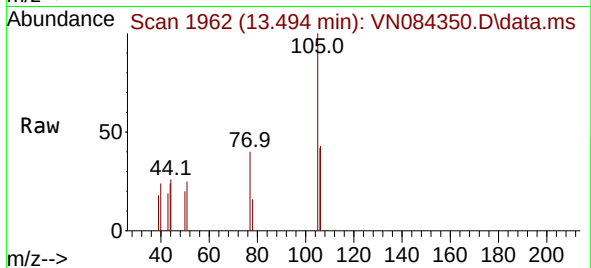
134 23.2 0.0 48.8



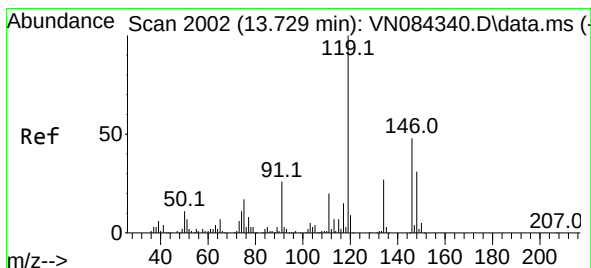
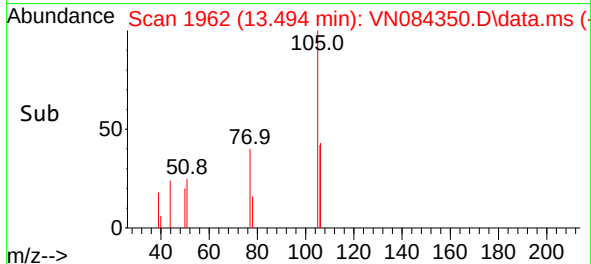
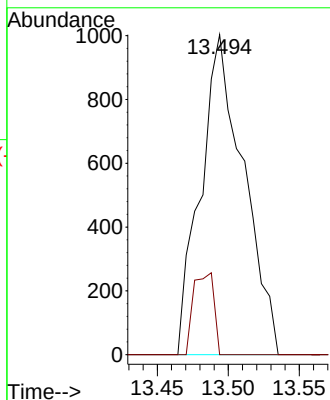


#80
 1,2,4-Trimethylbenzene
 Concen: 0.314 ug/l
 RT: 13.494 min Scan# 1962
 Delta R.T. 0.012 min
 Lab File: VN084350.D
 Acq: 08 Oct 2024 15:41

Instrument :
 MSVOA_N
 ClientSampleId :

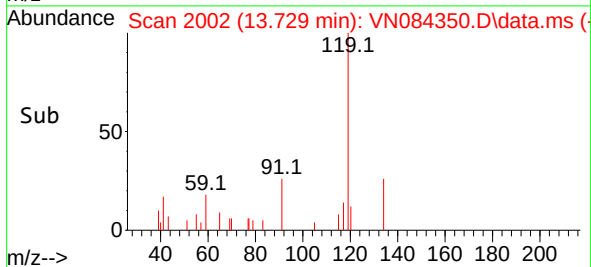
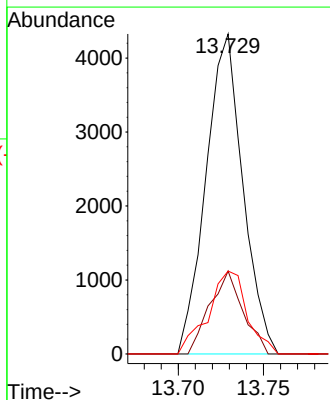
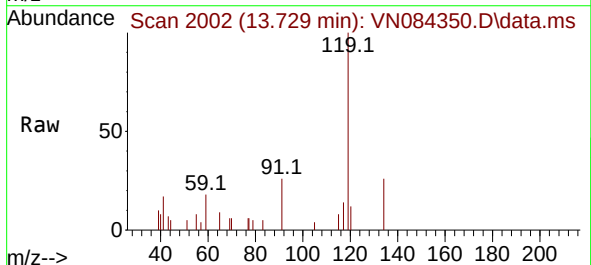


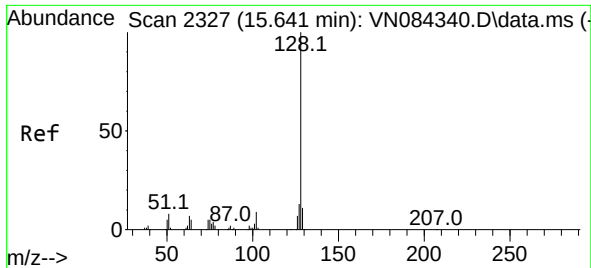
Tgt Ion:105 Resp: 2113
 Ion Ratio Lower Upper
 105 100
 120 12.2 0.0 88.8



#82
 p-Isopropyltoluene
 Concen: 0.993 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. -0.000 min
 Lab File: VN084350.D
 Acq: 08 Oct 2024 15:41

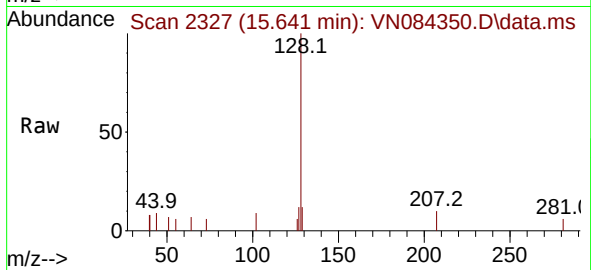
Tgt Ion:119 Resp: 6514
 Ion Ratio Lower Upper
 119 100
 134 23.2 0.0 50.2
 91 27.3 0.0 50.6





#91
Naphthalene
Concen: 0.863 ug/l
RT: 15.641 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN084350.D
Acq: 08 Oct 2024 15:41

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:128 Resp: 5221
Ion Ratio Lower Upper
128 100
127 0.0 10.3 15.5#
129 2.5 8.8 13.2#

