

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
 Data File : VN084068.D
 Acq On : 20 Sep 2024 14:20
 Operator : JC\MD
 Sample : PB163512ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB163512ZHE#01

Quant Time: Sep 23 01:03:06 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Fri Sep 06 23:42:47 2024
 Response via : Initial Calibration

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

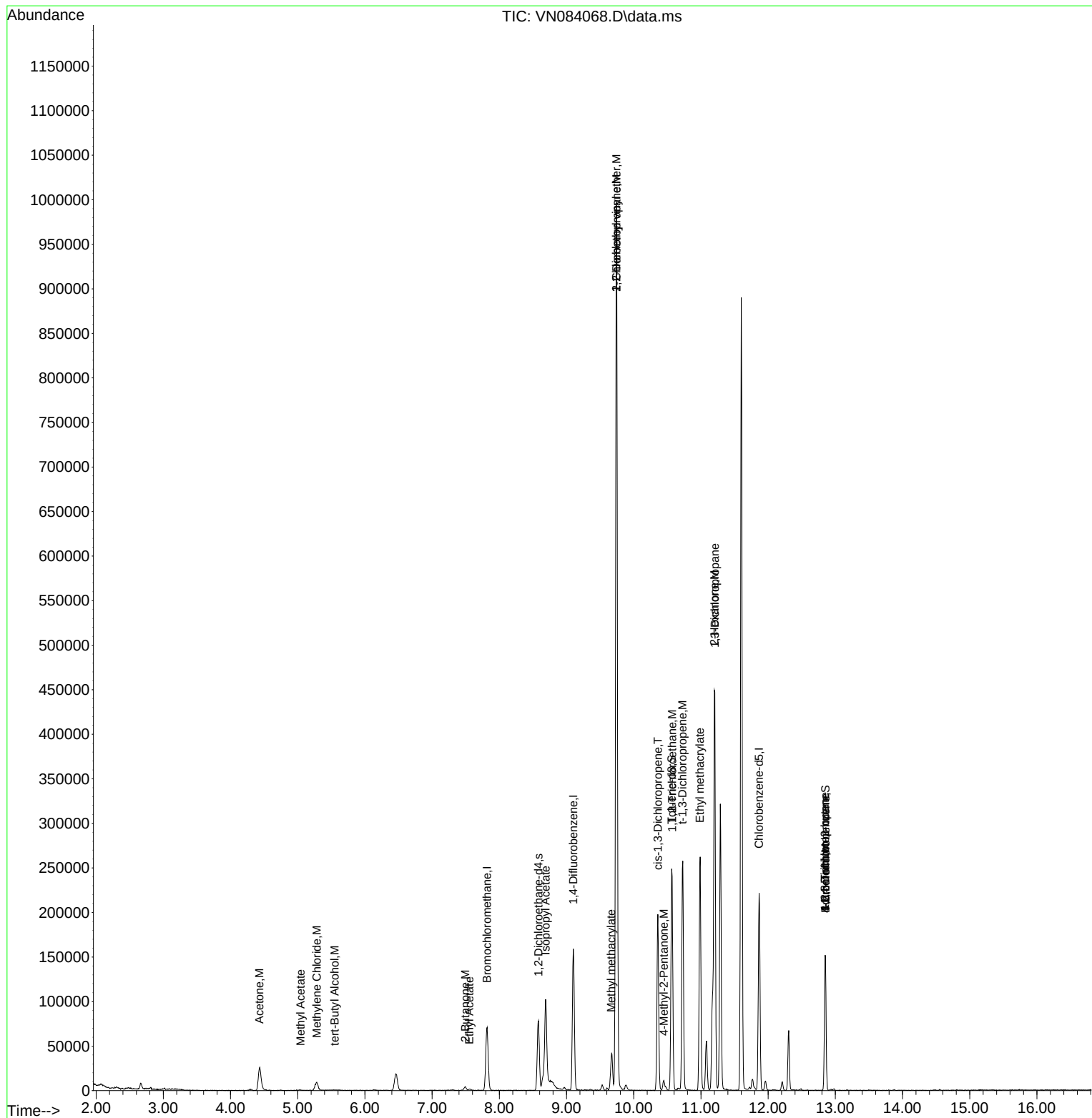
Internal Standards						
1) Bromochloromethane	7.818	128	24059	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	9.100	114	128486	30.000	ug/l	0.00
57) Chlorobenzene-d5	11.865	117	121976	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	8.583	65	65901	29.966	ug/l	0.00
Spiked Amount	30.000	Range	91 - 110	Recovery	=	99.900%
60) 4-Bromofluorobenzene	12.853	95	52250	24.855	ug/l	0.00
Spiked Amount	30.000	Range	63 - 112	Recovery	=	82.833%
63) Toluene-d8	10.565	98	168892	29.903	ug/l	0.00
Spiked Amount	30.000	Range	91 - 112	Recovery	=	99.667%
Target Compounds						
					Qvalue	
12) Methyl Acetate	5.042	43	721	0.400	ug/l #	40
15) Acetone	4.430	58	14554	60.119	ug/l	73
18) Methylene Chloride	5.283	84	7269	4.443	ug/l	91
23) tert-Butyl Alcohol	5.548	59	121	0.452	ug/l #	100
30) 2-Butanone	7.494	43	7237	7.533	ug/l #	53
39) 1,2-Dichloropropane	9.741	63	1180	0.802	ug/l #	43
43) Ethyl Acetate	7.553	43	1167	0.604	ug/l #	67
44) Isopropyl Acetate	8.688	43	127903	38.244	ug/l #	70
46) Methyl methacrylate	9.665	41	2934	1.812	ug/l #	26
48) t-1,3-Dichloropropene	10.724	75	646	0.268	ug/l #	45
49) cis-1,3-Dichloropropene	10.359	75	32775	13.093	ug/l #	74
50) 1,1,2-Trichloroethane	10.571	97	5492	4.011	ug/l #	1
51) Ethyl methacrylate	10.982	69	1212	0.518	ug/l #	1
52) 1,3-Dichloropropane	11.206	76	4312	1.744	ug/l #	42
55) 2-Chloroethyl vinyl ether	9.741	63	1180	1.266	ug/l #	43
56) Bromoform	12.853	173	336	0.322	ug/l #	1
58) 4-Methyl-2-Pentanone	10.447	43	8107	4.192	ug/l #	83
59) 2-Hexanone	11.200	43	63609	43.526	ug/l #	1
72) 1,2,3-Trichloropropane	12.847	75	30159	16.811	ug/l	1
77) t-1,4-Dichloro-2-butene	12.847	75	30159	39.771	ug/l #	12

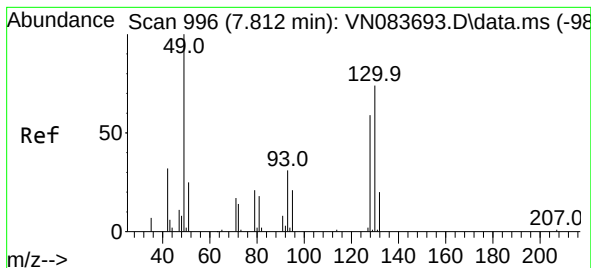
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN092024\
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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\624N090624W.M
Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
QLast Update : Fri Sep 06 23:42:47 2024
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 30.000 ug/l

RT: 7.818 min Scan# 91

Delta R.T. 0.006 min

Lab File: VN084068.D

Acq: 20 Sep 2024 14:20

Instrument :

MSVOA_N

ClientSampleId :

PB163512ZHE#01

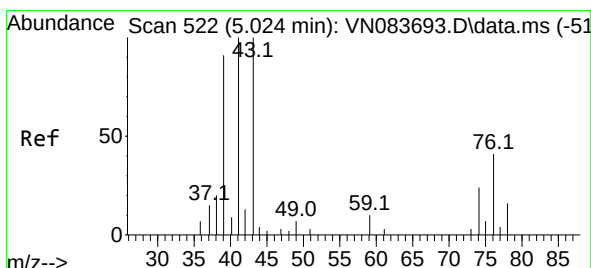
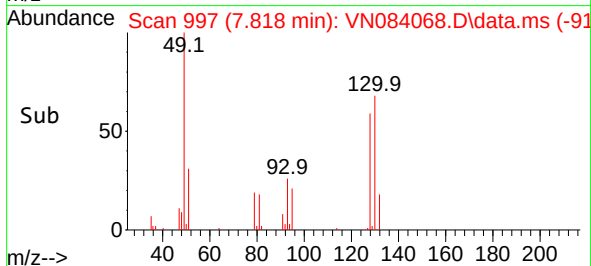
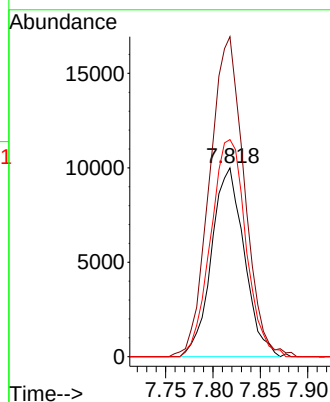
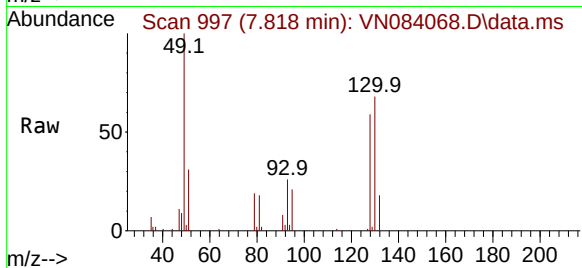
Tgt Ion:128 Resp: 24059

Ion Ratio Lower Upper

128 100

49 179.4 0.0 403.7

130 123.5 0.0 323.3



#12

Methyl Acetate

Concen: 0.400 ug/l

RT: 5.042 min Scan# 525

Delta R.T. 0.018 min

Lab File: VN084068.D

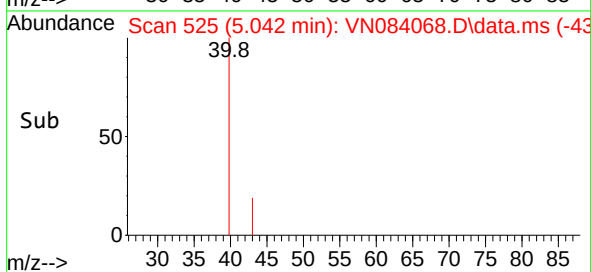
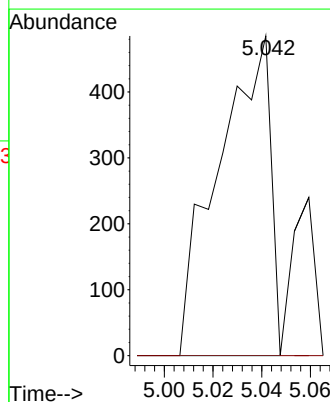
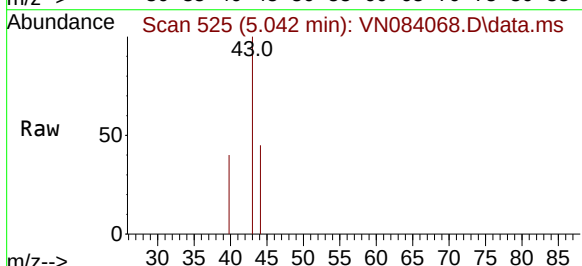
Acq: 20 Sep 2024 14:20

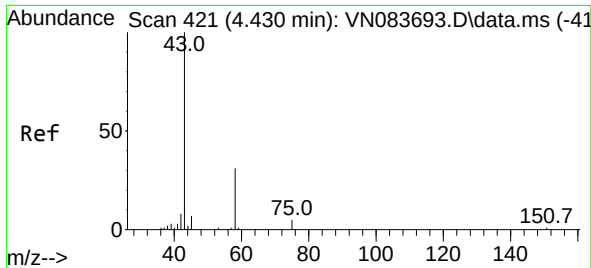
Tgt Ion: 43 Resp: 721

Ion Ratio Lower Upper

43 100

74 0.0 27.7 41.5#





#15

Acetone

Concen: 60.119 ug/l

RT: 4.430 min Scan# 41

Delta R.T. 0.000 min

Lab File: VN084068.D

Acq: 20 Sep 2024 14:20

Instrument :

MSVOA_N

ClientSampleId :

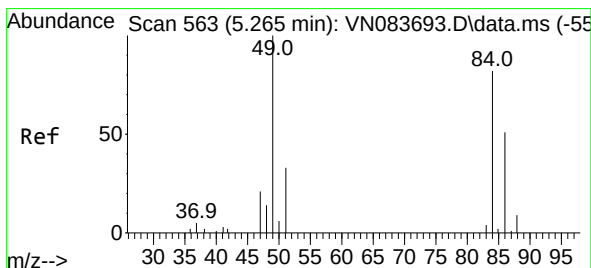
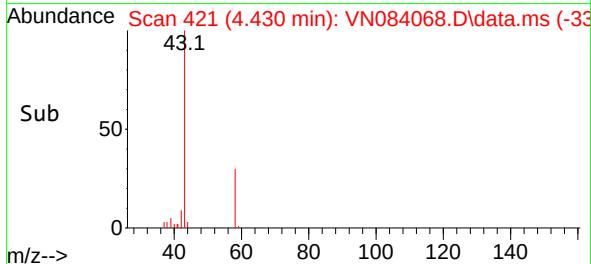
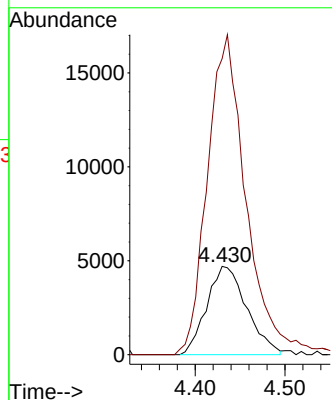
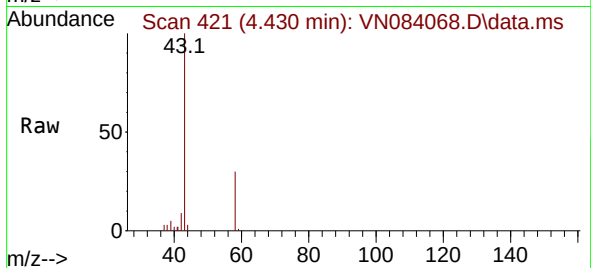
PB163512ZHE#01

Tgt Ion: 58 Resp: 14554

Ion Ratio Lower Upper

58 100

43 329.1 223.1 334.7



#18

Methylene Chloride

Concen: 4.443 ug/l

RT: 5.283 min Scan# 566

Delta R.T. 0.018 min

Lab File: VN084068.D

Acq: 20 Sep 2024 14:20

Tgt Ion: 84 Resp: 7269

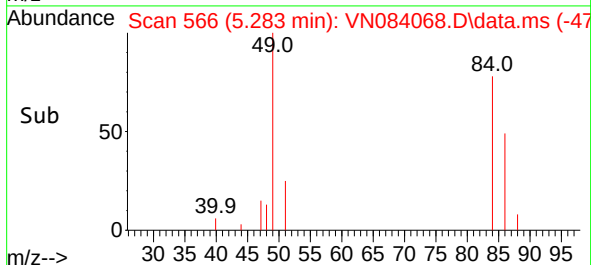
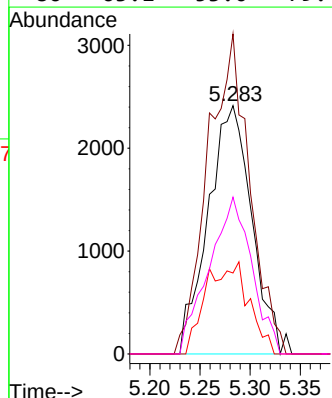
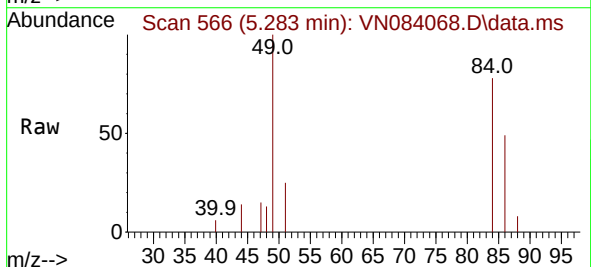
Ion Ratio Lower Upper

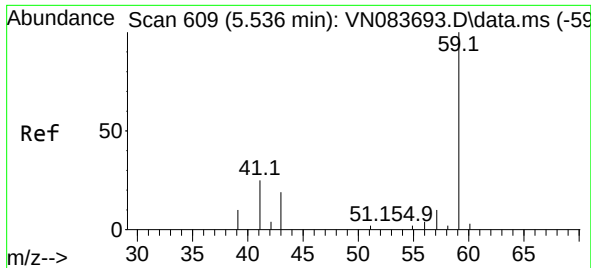
84 100

49 121.2 86.0 129.0

51 32.6 30.0 45.0

86 63.1 53.0 79.4

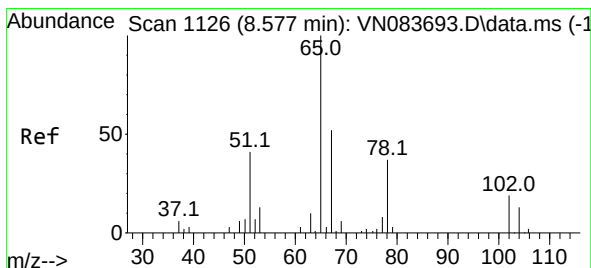
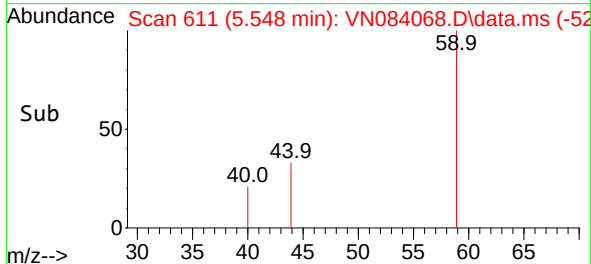
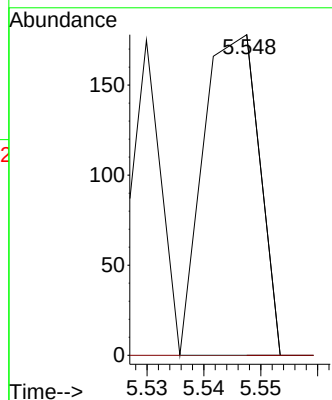
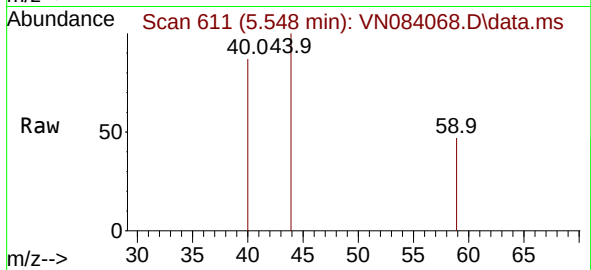




#23
tert-Butyl Alcohol
Concen: 0.452 ug/l
RT: 5.548 min Scan# 611
Delta R.T. 0.012 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

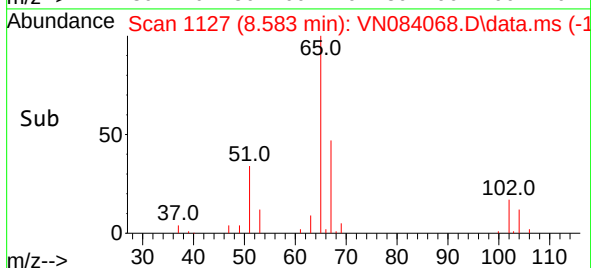
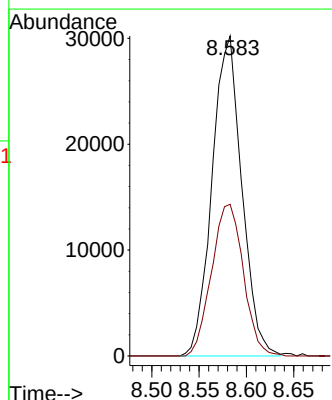
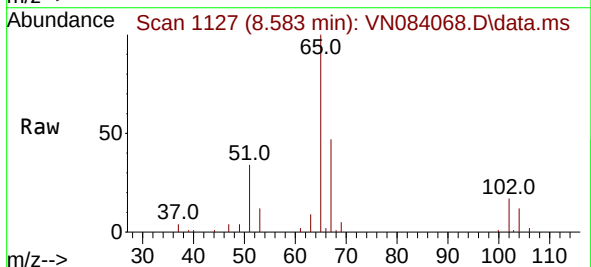
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#01

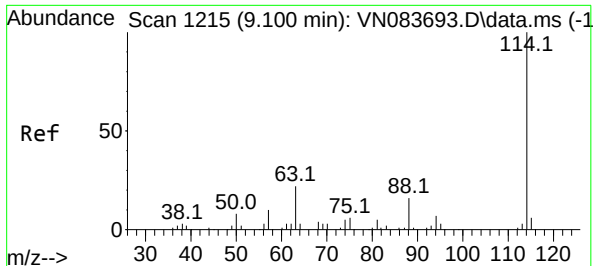
Tgt Ion: 59 Resp: 121
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0



#27
1,2-Dichloroethane-d4
Concen: 29.966 ug/l
RT: 8.583 min Scan# 1127
Delta R.T. 0.006 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

Tgt Ion: 65 Resp: 65901
Ion Ratio Lower Upper
65 100
67 50.6 43.2 64.8

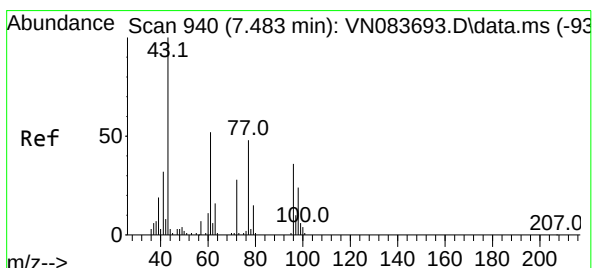
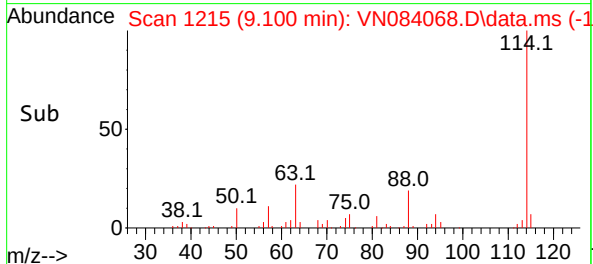
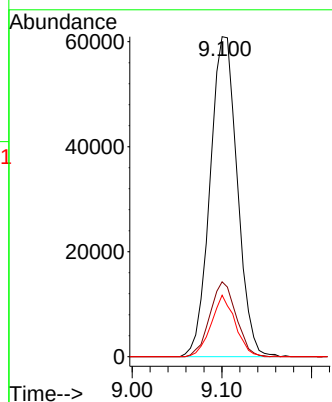
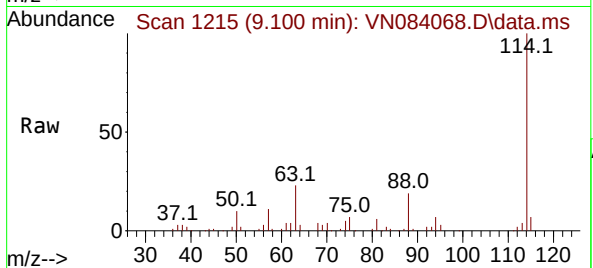




#28
 1,4-Difluorobenzene
 Concen: 30.000 ug/l
 RT: 9.100 min Scan# 114
 Delta R.T. 0.000 min
 Lab File: VN084068.D
 Acq: 20 Sep 2024 14:20

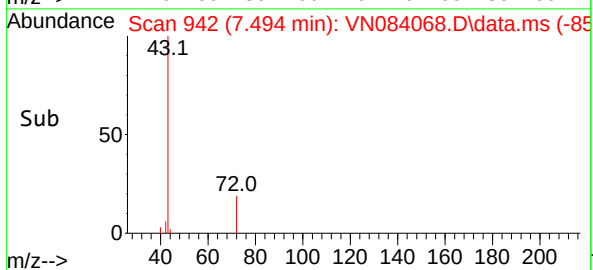
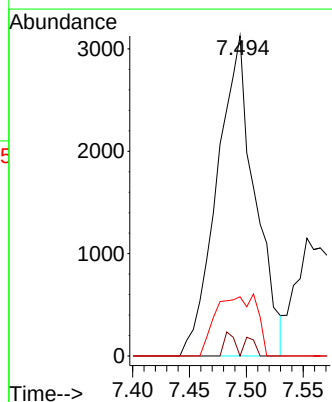
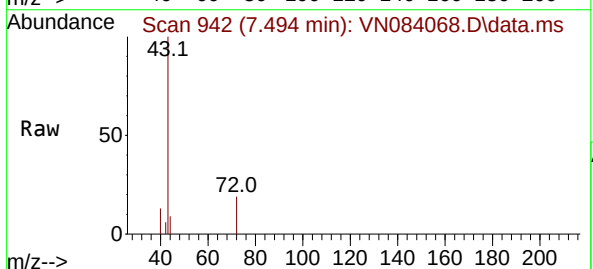
Instrument :
 MSVOA_N
 ClientSampleId :
 PB163512ZHE#01

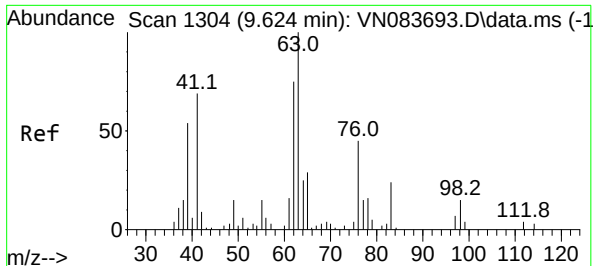
Tgt Ion:114 Resp: 128486
 Ion Ratio Lower Upper
 114 100
 63 22.5 15.9 23.9
 88 17.0 12.7 19.1



#30
 2-Butanone
 Concen: 7.533 ug/l
 RT: 7.494 min Scan# 942
 Delta R.T. 0.012 min
 Lab File: VN084068.D
 Acq: 20 Sep 2024 14:20

Tgt Ion: 43 Resp: 7237
 Ion Ratio Lower Upper
 43 100
 57 1.7 6.7 10.1#
 72 0.0 24.0 36.0#

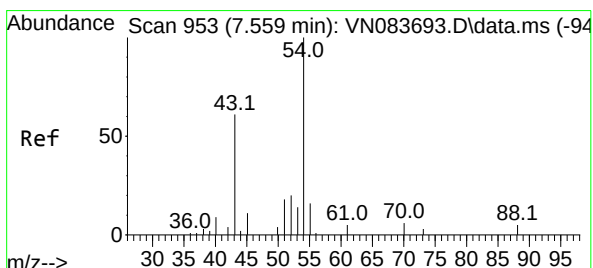
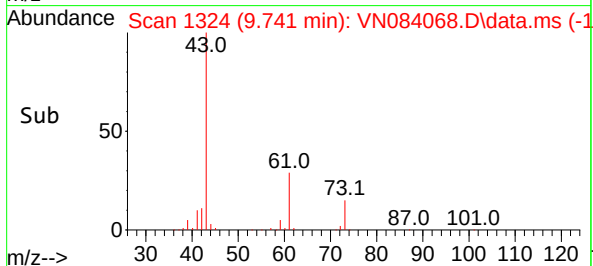
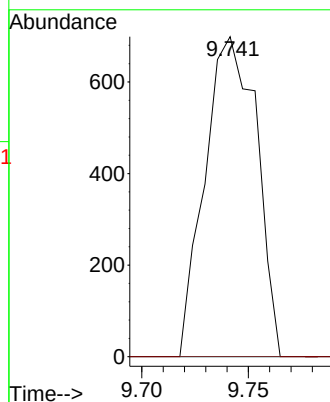
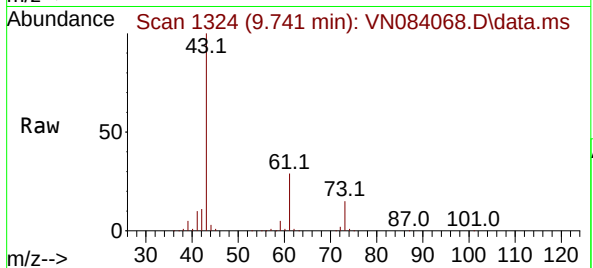




#39
1,2-Dichloropropane
Concen: 0.802 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.118 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

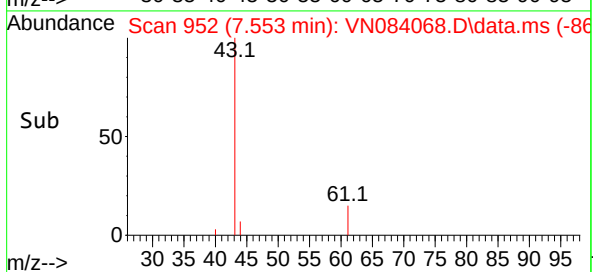
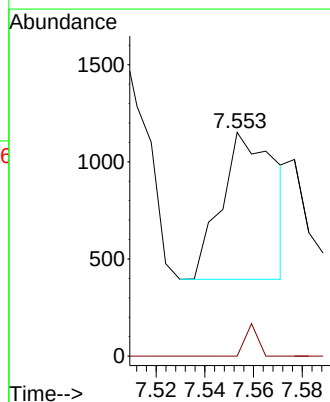
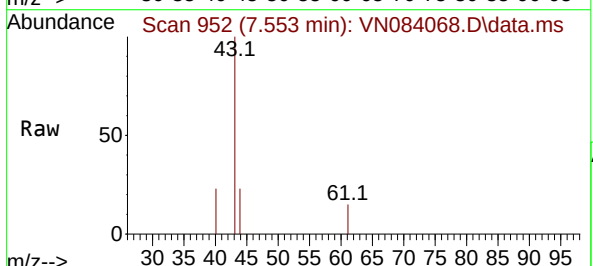
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#01

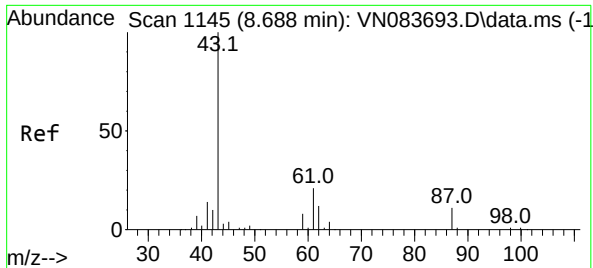
Tgt Ion: 63 Resp: 1180
Ion Ratio Lower Upper
63 100
65 0.0 25.0 37.4#



#43
Ethyl Acetate
Concen: 0.604 ug/l
RT: 7.553 min Scan# 952
Delta R.T. -0.006 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

Tgt Ion: 43 Resp: 1167
Ion Ratio Lower Upper
43 100
45 0.0 10.6 15.8#

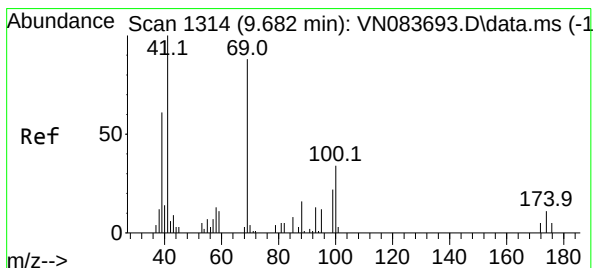
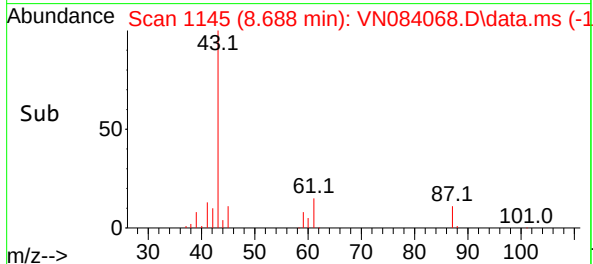
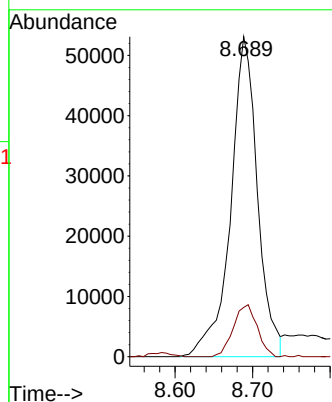
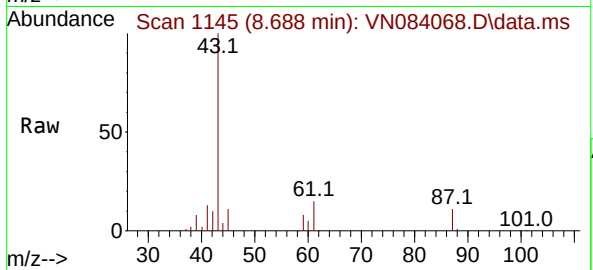




#44
Isopropyl Acetate
Concen: 38.244 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

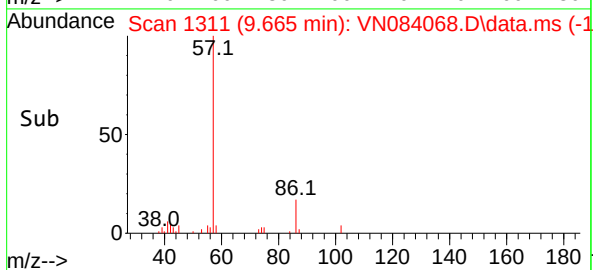
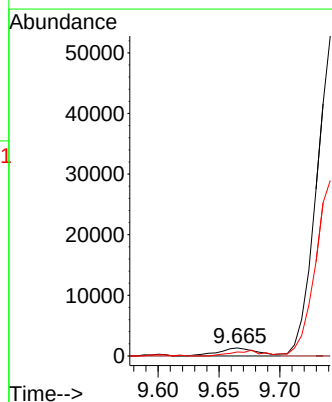
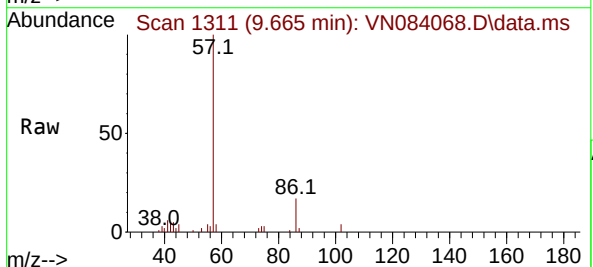
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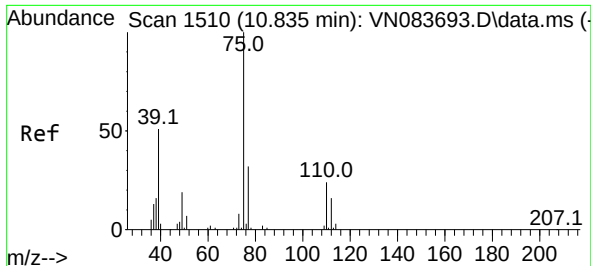
Tgt Ion: 43 Resp: 127903
Ion Ratio Lower Upper
43 100
61 14.5 25.0 37.4#



#46
Methyl methacrylate
Concen: 1.812 ug/l
RT: 9.665 min Scan# 1311
Delta R.T. -0.017 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

Tgt Ion: 41 Resp: 2934
Ion Ratio Lower Upper
41 100
69 0.0 51.1 153.3#
39 37.3 25.8 77.3

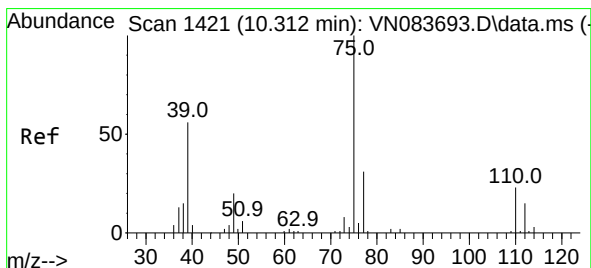
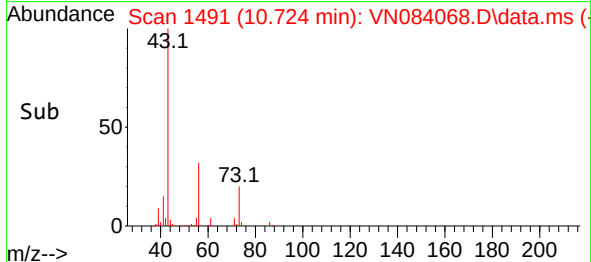
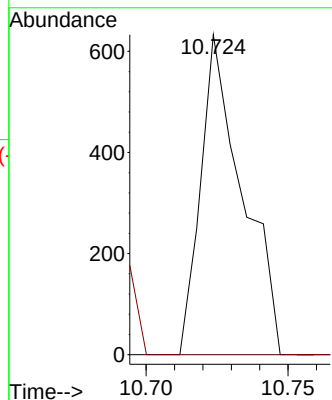
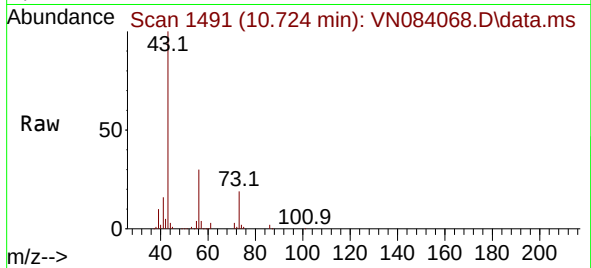




#48
t-1,3-Dichloropropene
Concen: 0.268 ug/l
RT: 10.724 min Scan# 1491
Delta R.T. -0.112 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

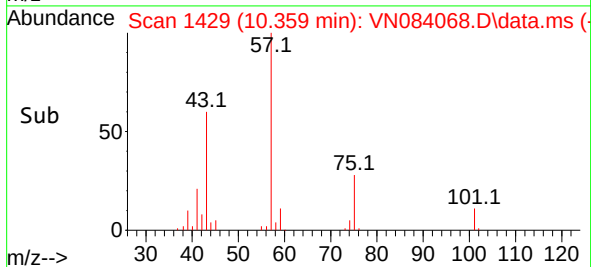
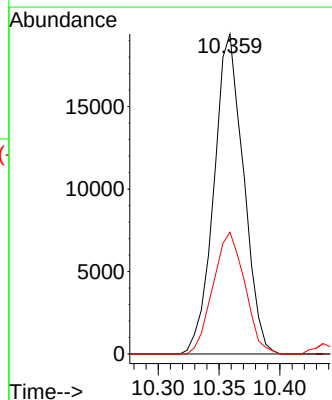
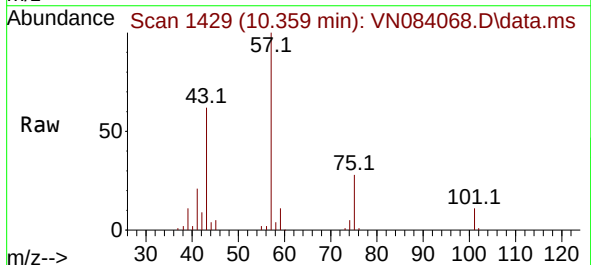
Instrument :
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PB163512ZHE#01

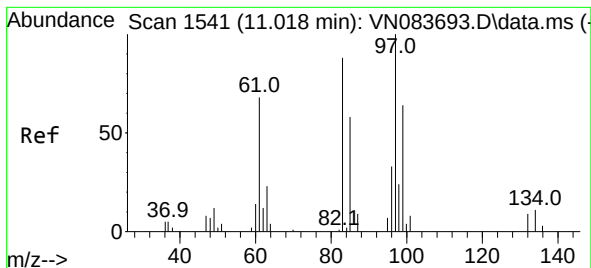
Tgt Ion: 75 Resp: 646
Ion Ratio Lower Upper
75 100
77 0.0 23.8 35.6#



#49
cis-1,3-Dichloropropene
Concen: 13.093 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.047 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

Tgt Ion: 75 Resp: 32775
Ion Ratio Lower Upper
75 100
77 0.0 24.9 37.3#
39 38.0 31.0 46.6

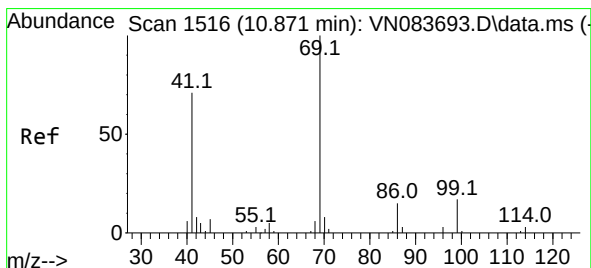
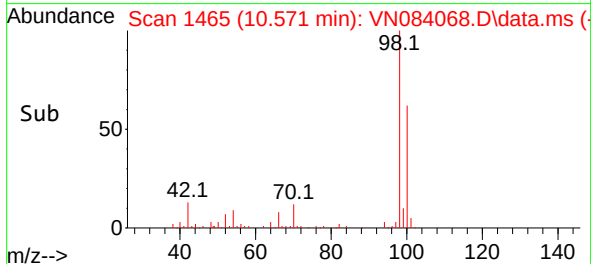
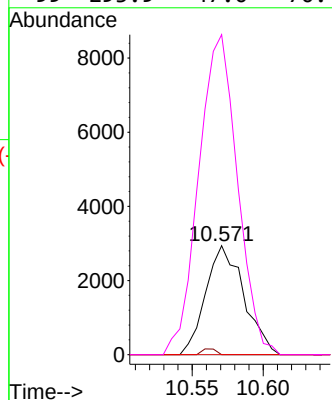
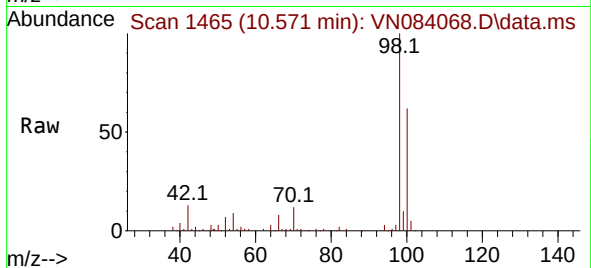




#50
1,1,2-Trichloroethane
Concen: 4.011 ug/l
RT: 10.571 min Scan# 14
Delta R.T. -0.447 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

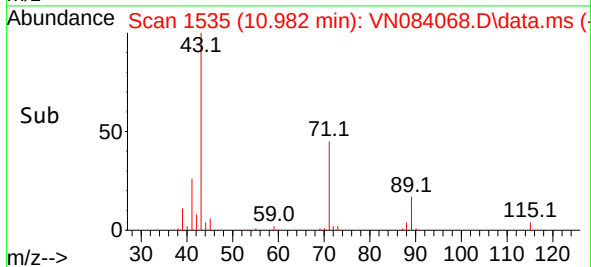
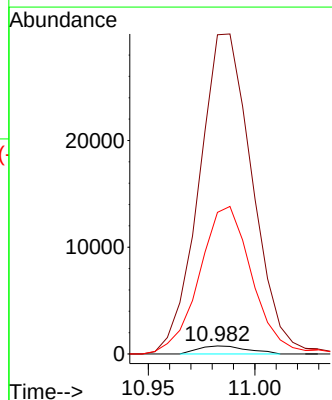
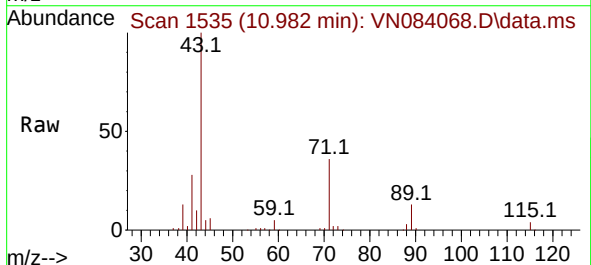
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#01

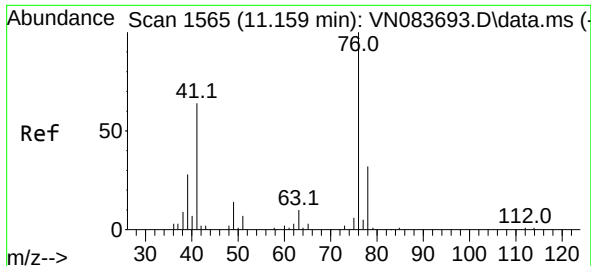
Tgt Ion: 97 Resp: 5492
Ion Ratio Lower Upper
97 100
83 0.0 68.1 102.1#
85 0.0 41.8 62.6#
99 293.9 47.0 70.4#



#51
Ethyl methacrylate
Concen: 0.518 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.112 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

Tgt Ion: 69 Resp: 1212
Ion Ratio Lower Upper
69 100
41 3644.8 25.5 76.5#
39 1592.8 16.0 47.9#





#52

1,3-Dichloropropane

Concen: 1.744 ug/l

RT: 11.206 min Scan# 11

Delta R.T. 0.047 min

Lab File: VN084068.D

Acq: 20 Sep 2024 14:20

Instrument :

MSVOA_N

ClientSampleId :

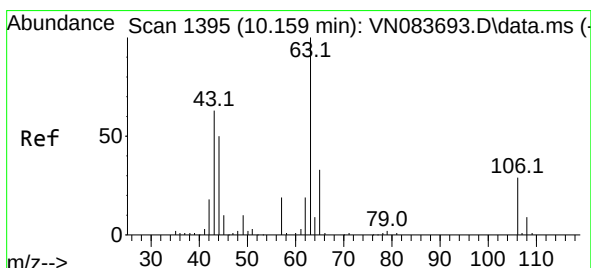
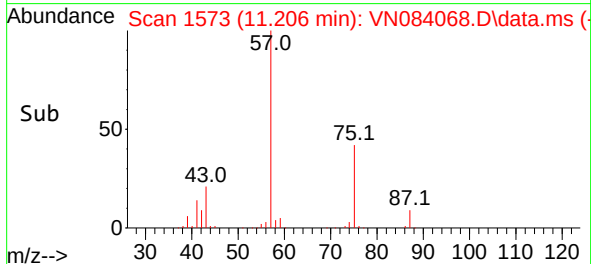
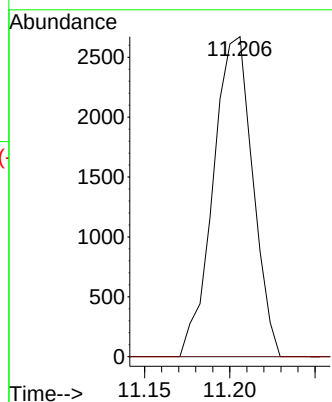
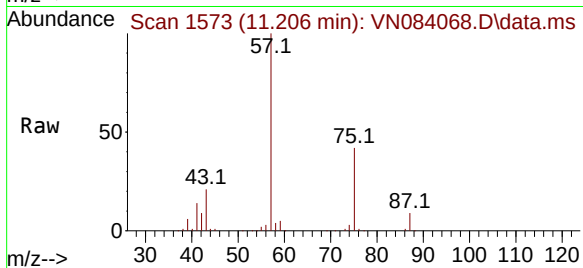
PB163512ZHE#01

Tgt Ion: 76 Resp: 4312

Ion Ratio Lower Upper

76 100

78 0.0 0.0 65.8



#55

2-Chloroethyl vinyl ether

Concen: 1.266 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. -0.417 min

Lab File: VN084068.D

Acq: 20 Sep 2024 14:20

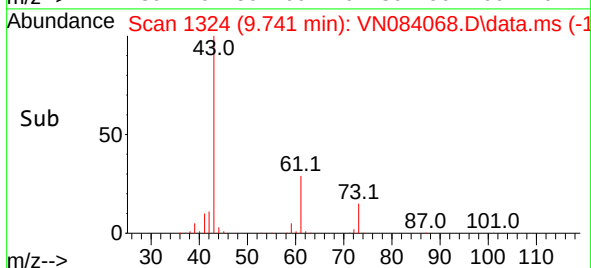
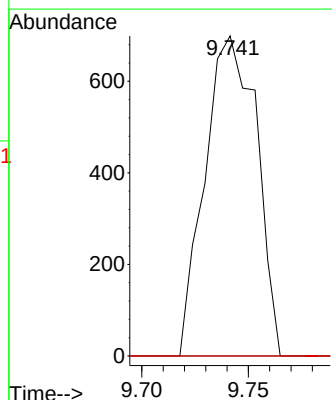
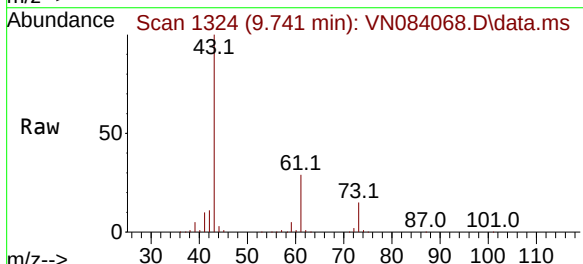
Tgt Ion: 63 Resp: 1180

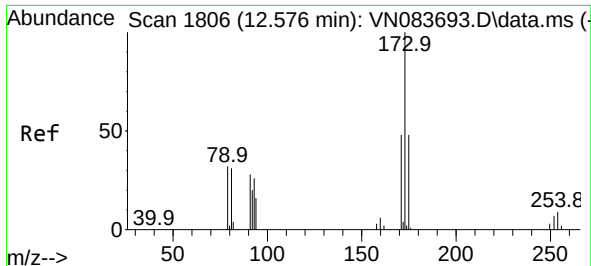
Ion Ratio Lower Upper

63 100

65 0.0 26.2 39.2#

106 0.0 23.8 35.8#

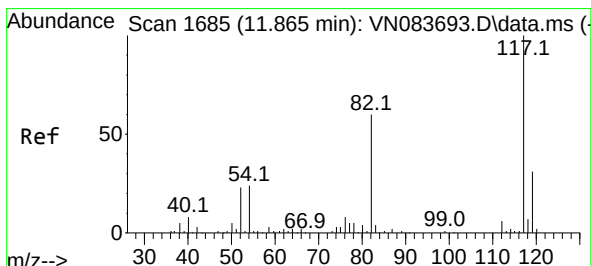
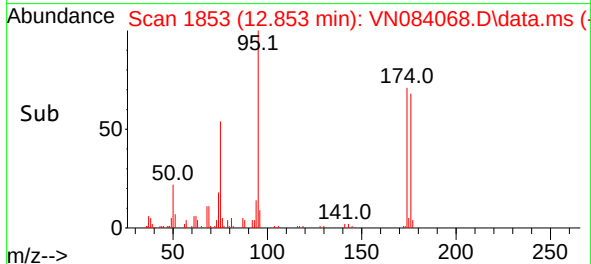
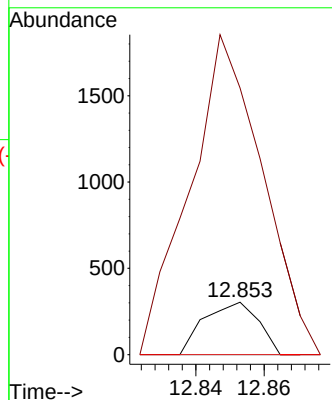
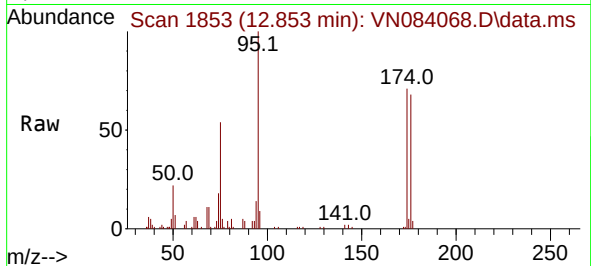




#56
Bromoform
Concen: 0.322 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.277 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

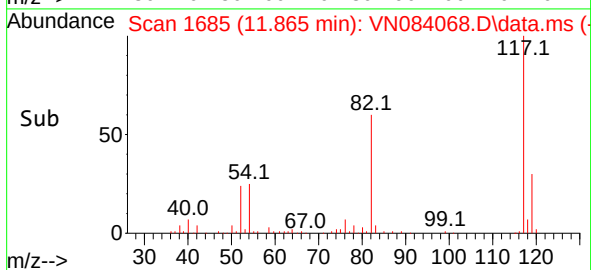
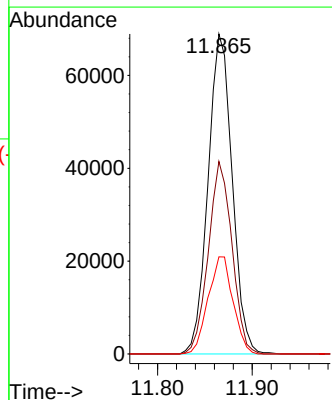
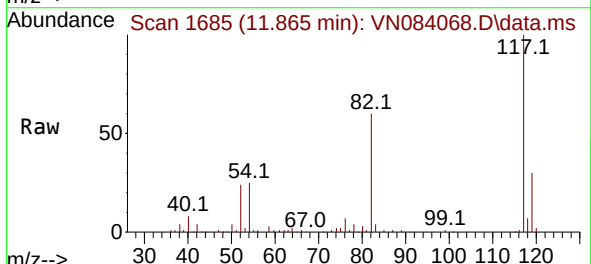
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#01

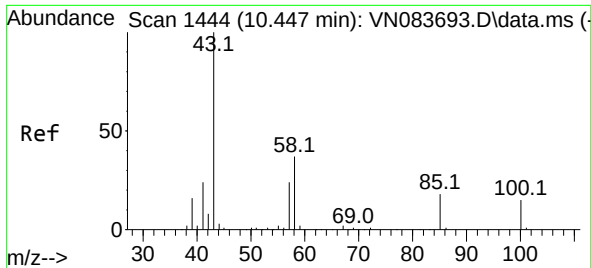
Tgt Ion:173 Resp: 336
Ion Ratio Lower Upper
173 100
175 819.0 40.0 60.0#
254 0.0 8.3 12.5#



#57
Chlorobenzene-d5
Concen: 30.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

Tgt Ion:117 Resp: 121976
Ion Ratio Lower Upper
117 100
82 58.9 46.6 69.8
119 31.3 25.4 38.2

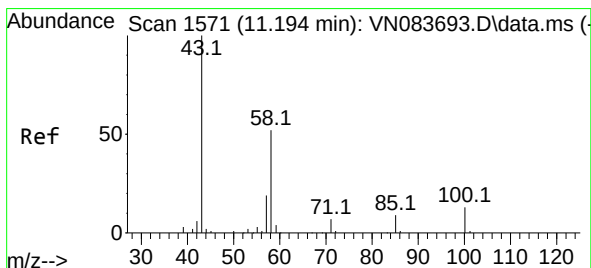
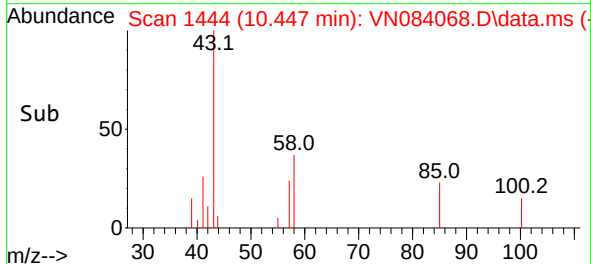
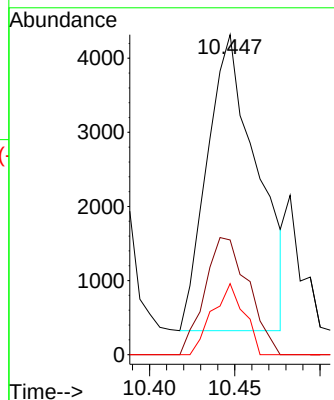
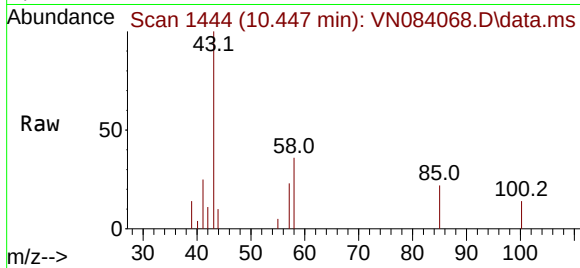




#58
4-Methyl-2-Pentanone
Concen: 4.192 ug/l
RT: 10.447 min Scan# 1444
Delta R.T. 0.000 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

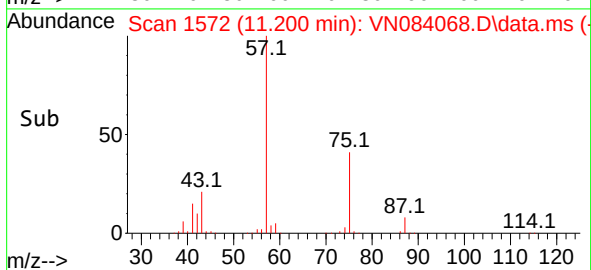
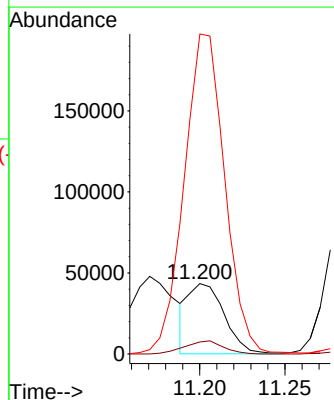
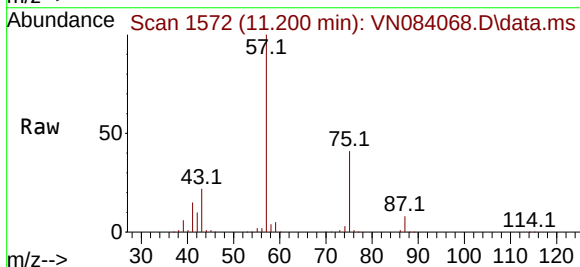
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#01

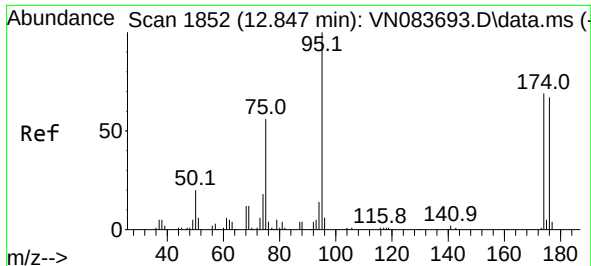
Tgt Ion: 43 Resp: 8107
Ion Ratio Lower Upper
43 100
58 34.7 36.5 54.7#
85 15.2 19.5 29.3#



#59
2-Hexanone
Concen: 43.526 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.006 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

Tgt Ion: 43 Resp: 63609
Ion Ratio Lower Upper
43 100
58 19.9 50.4 75.6#
57 514.8 18.6 27.8#

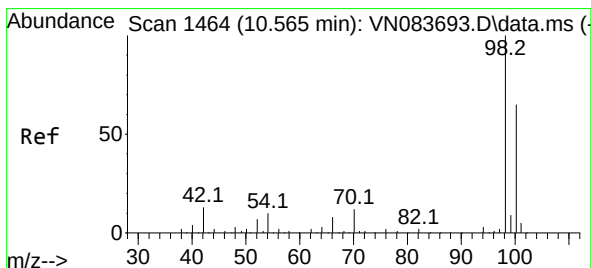
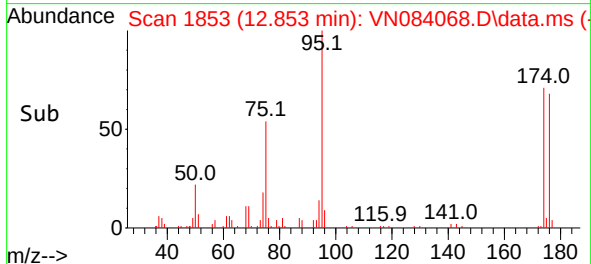
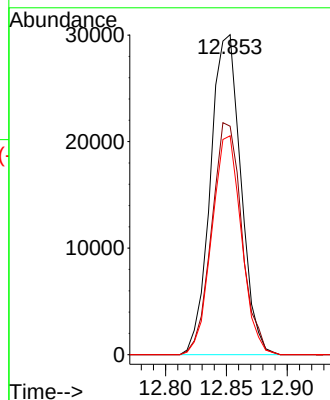
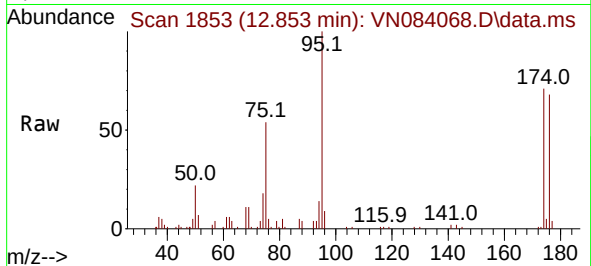




#60
4-Bromofluorobenzene
Concen: 24.855 ug/l
RT: 12.853 min Scan# 1853
Delta R.T. 0.006 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

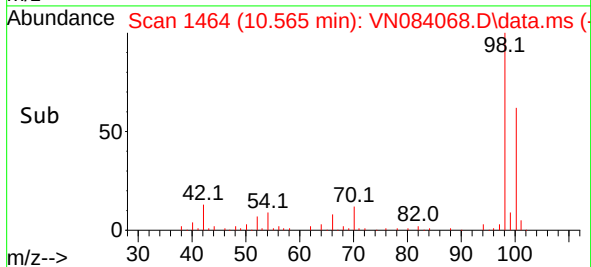
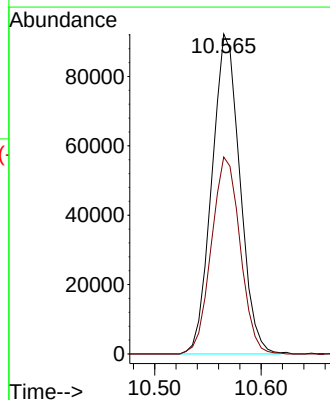
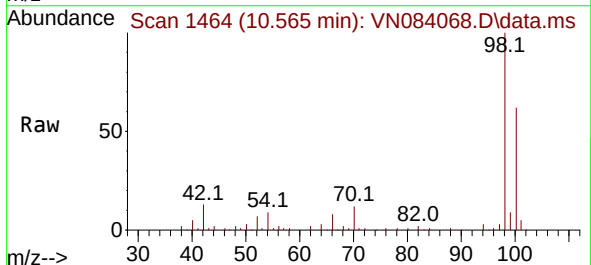
Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#01

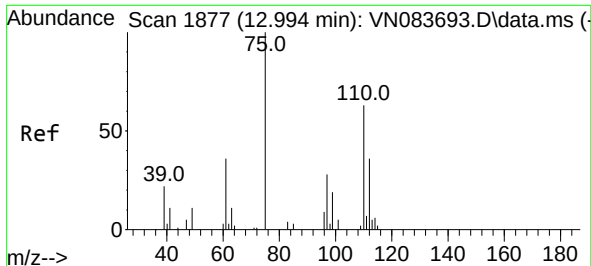
Tgt Ion: 95 Resp: 52250
Ion Ratio Lower Upper
95 100
174 71.8 60.5 90.7
176 66.6 57.8 86.6



#63
Toluene-d8
Concen: 29.903 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

Tgt Ion: 98 Resp: 168892
Ion Ratio Lower Upper
98 100
100 62.9 52.7 79.1

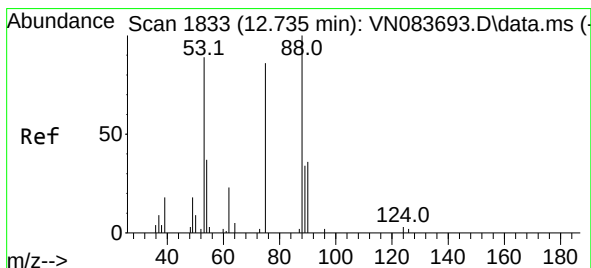
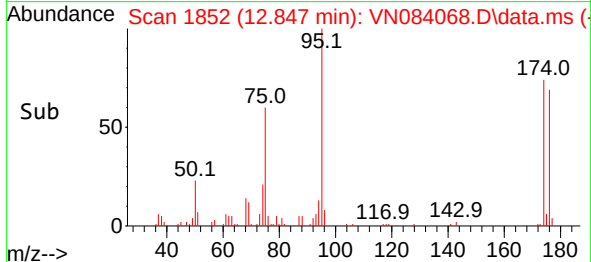
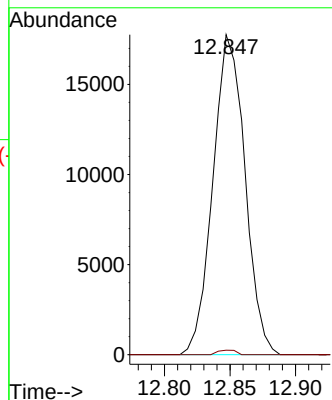
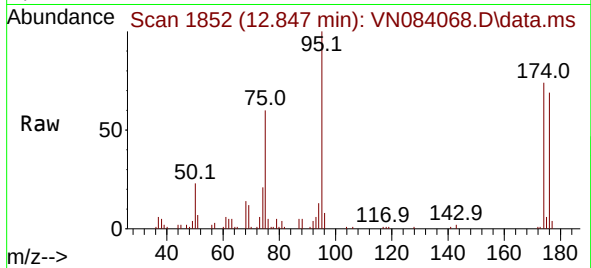




#72
1,2,3-Trichloropropane
Concen: 16.811 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

Instrument :
MSVOA_N
ClientSampleId :
PB163512ZHE#01

Tgt Ion: 75 Resp: 30159
Ion Ratio Lower Upper
75 100
77 0.8 0.0 367.6



#77
t-1,4-Dichloro-2-butene
Concen: 39.771 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN084068.D
Acq: 20 Sep 2024 14:20

Tgt Ion: 75 Resp: 30159
Ion Ratio Lower Upper
75 100
53 0.0 45.9 137.7#
89 0.0 25.9 77.7#

