

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN051925\
 Data File : VN086688.D
 Acq On : 19 May 2025 14:39
 Operator : JC\MD
 Sample : PB168034ZHE#05
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 12 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#05

Quant Time: May 20 03:19:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
 Quant Title : SW846 8260
 QLast Update : Sat May 17 00:46:13 2025
 Response via : Initial Calibration

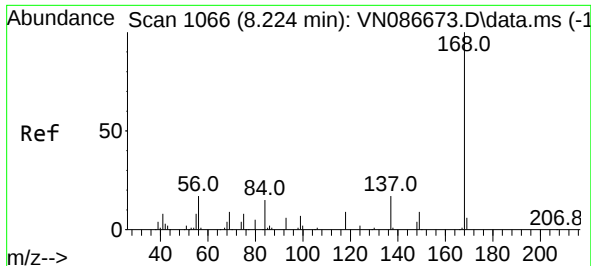
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.224	168	186948	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	362386	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	358721	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	150940	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	133448	51.658	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 103.320%			
35) Dibromofluoromethane	8.165	113	109276	50.634	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 101.260%			
50) Toluene-d8	10.565	98	472659	52.849	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 105.700%			
62) 4-Bromofluorobenzene	12.847	95	171742	54.385	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 108.760%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	937	0.307	ug/l #	87
5) Bromomethane	2.965	94	333	0.211	ug/l #	80
11) Tert butyl alcohol	5.512	59	1098	2.334	ug/l #	73
16) Acetone	4.430	43	23851	24.682	ug/l	97
18) Methyl Acetate	5.018	43	4159	1.538	ug/l #	87
20) Methylene Chloride	5.271	84	15805	6.198	ug/l	95
25) 2-Butanone	7.489	43	9243	6.190	ug/l	92
29) Tetrahydrofuran	7.841	42	564	0.579	ug/l #	38
31) Cyclohexane	8.224	56	3986	1.028	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	15225	4.783	ug/l #	49
37) Ethyl Acetate	7.559	43	1044	0.325	ug/l #	67
38) Carbon Tetrachloride	8.224	117	18722	5.969	ug/l #	16
43) Isopropyl Acetate	8.688	43	50891	7.894	ug/l #	75
45) 1,2-Dichloropropane	9.735	63	1069	0.433	ug/l #	42
48) Methyl methacrylate	9.741	41	84369	33.775	ug/l #	37
49) 1,4-Dioxane	9.735	88	58	1.097	ug/l #	1
51) 4-Methyl-2-Pentanone	10.441	43	4002	1.231	ug/l	96
54) cis-1,3-Dichloropropene	10.353	75	42704	10.773	ug/l #	59
57) 1,3-Dichloropropane	11.200	76	3916	0.944	ug/l #	42
59) 2-Hexanone	11.200	43	73095	30.790	ug/l #	42
74) N-amyl acetate	12.453	43	5059	1.039	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	84104	24.638	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	84104	62.177	ug/l #	15

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

Quant Time: May 20 03:19:16 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N051625W.M
Quant Title : SW846 8260
QLast Update : Sat May 17 00:46:13 2025
Response via : Initial Calibration

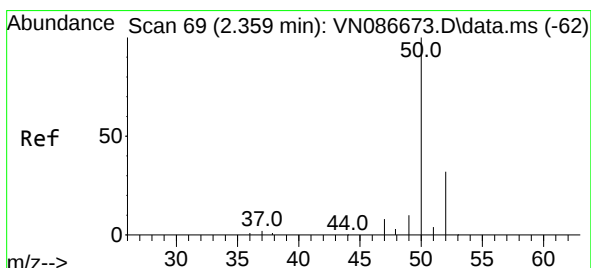
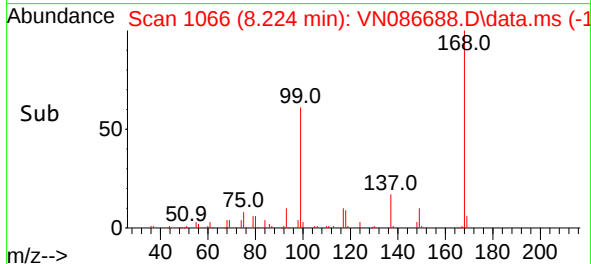
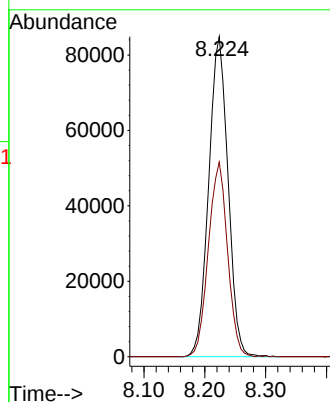
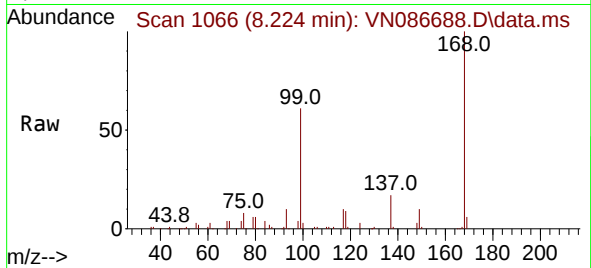




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.000 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

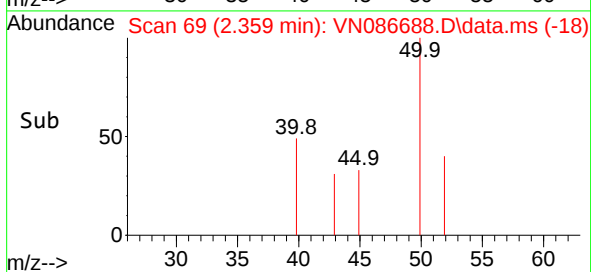
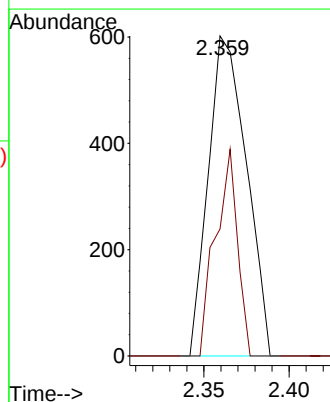
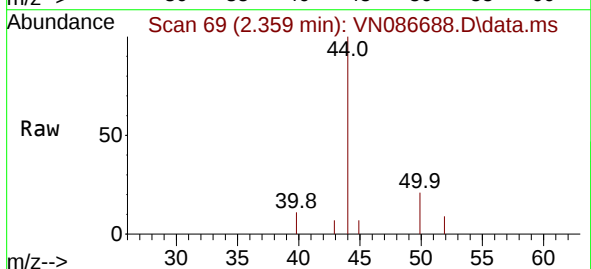
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#05

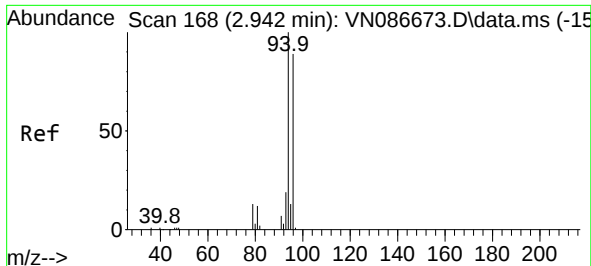
Tgt Ion:168 Resp: 186948
Ion Ratio Lower Upper
168 100
99 60.8 47.0 70.4



#3
Chloromethane
Concen: 0.307 ug/l
RT: 2.359 min Scan# 69
Delta R.T. 0.000 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

Tgt Ion: 50 Resp: 937
Ion Ratio Lower Upper
50 100
52 39.7 25.9 38.9#





#5

Bromomethane

Concen: 0.211 ug/l

RT: 2.965 min Scan# 11

Delta R.T. 0.024 min

Lab File: VN086688.D

Acq: 19 May 2025 14:39

Instrument :

MSVOA_N

ClientSampleId :

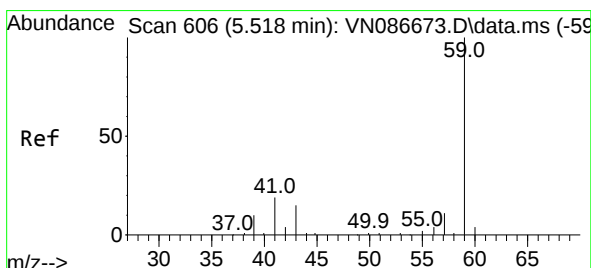
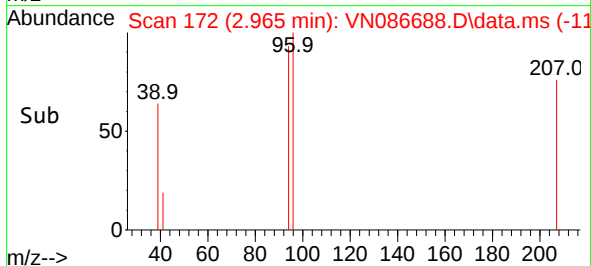
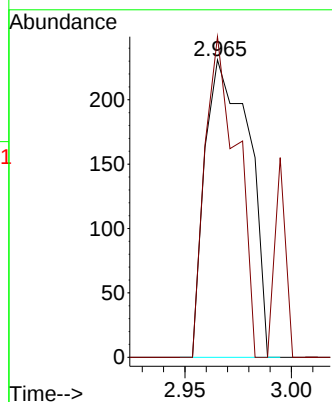
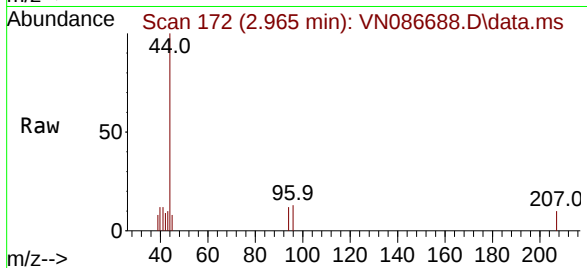
PB168034ZHE#05

Tgt Ion: 94 Resp: 333

Ion Ratio Lower Upper

94 100

96 107.8 71.2 106.8#



#11

Tert butyl alcohol

Concen: 2.334 ug/l

RT: 5.512 min Scan# 605

Delta R.T. -0.006 min

Lab File: VN086688.D

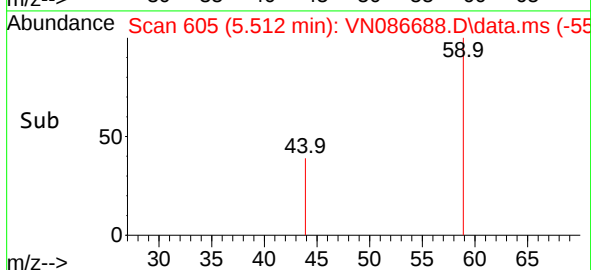
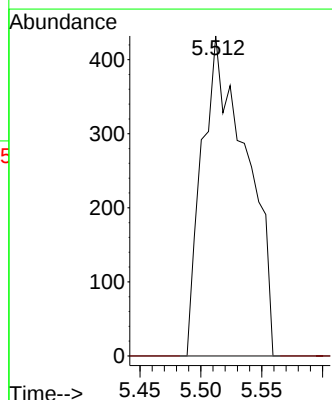
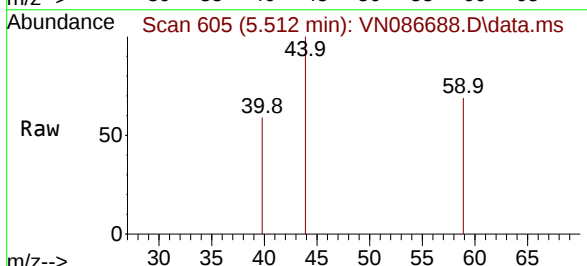
Acq: 19 May 2025 14:39

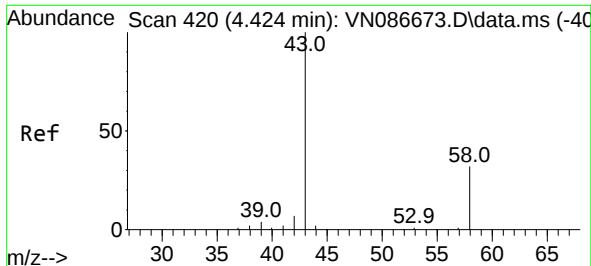
Tgt Ion: 59 Resp: 1098

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.2#

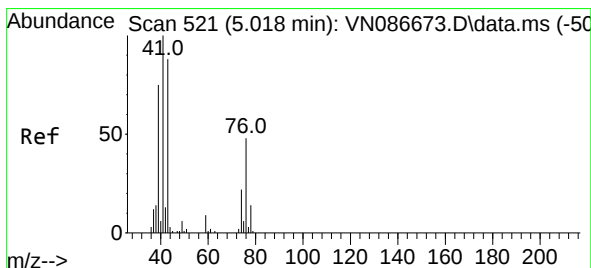
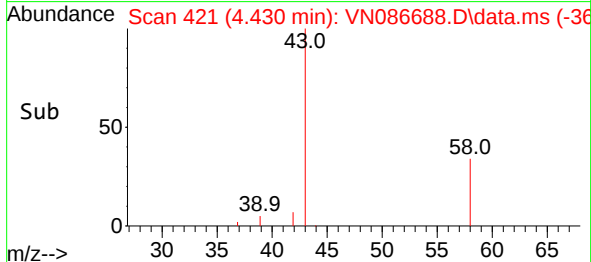
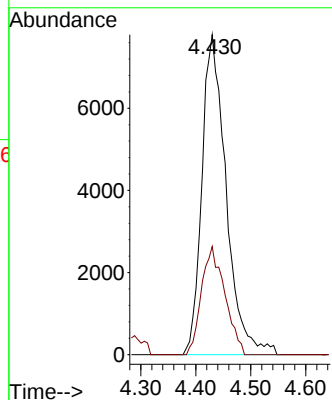
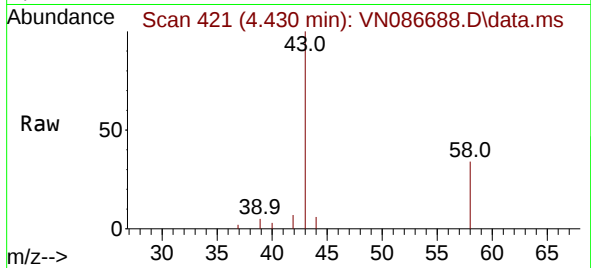




#16
Acetone
Concen: 24.682 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

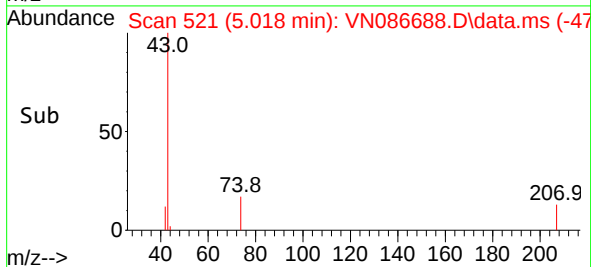
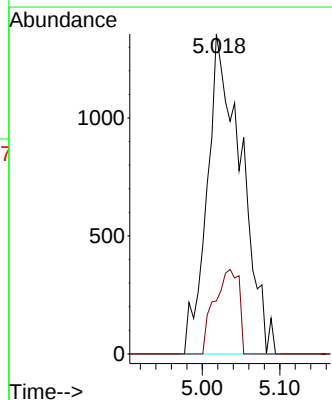
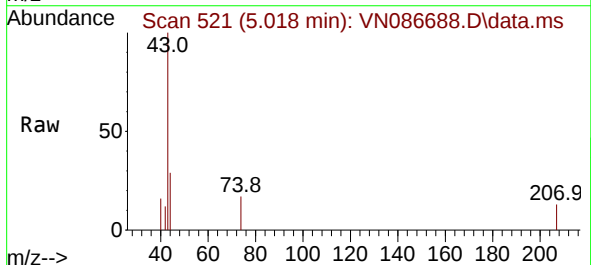
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#05

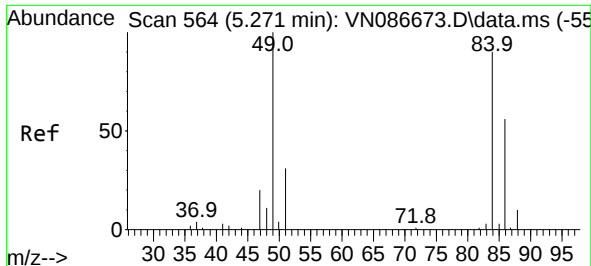
Tgt Ion: 43 Resp: 23851
Ion Ratio Lower Upper
43 100
58 33.8 25.8 38.6



#18
Methyl Acetate
Concen: 1.538 ug/l
RT: 5.018 min Scan# 521
Delta R.T. -0.000 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

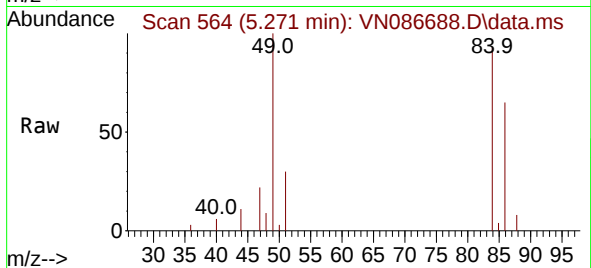
Tgt Ion: 43 Resp: 4159
Ion Ratio Lower Upper
43 100
74 18.9 20.5 30.7#



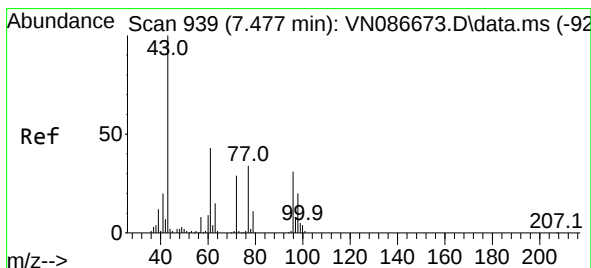
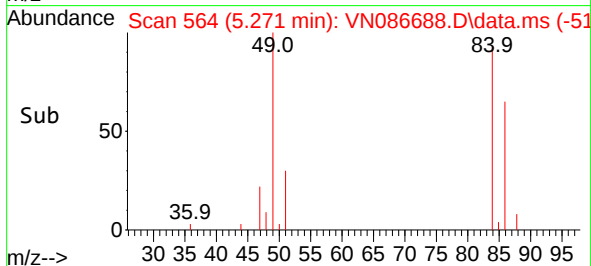
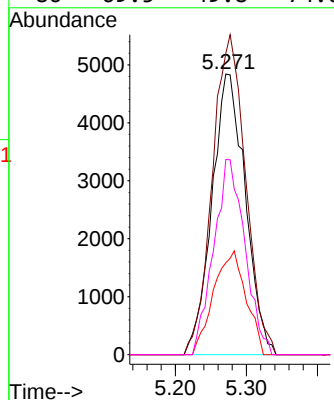


#20
Methylene Chloride
Concen: 6.198 ug/l
RT: 5.271 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#05

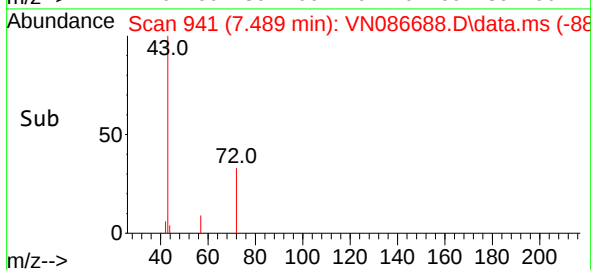
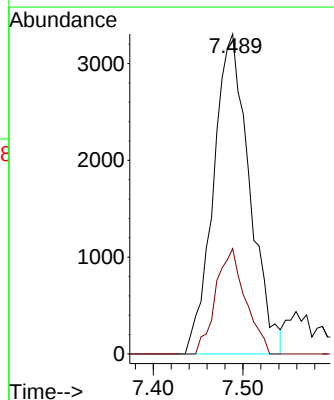
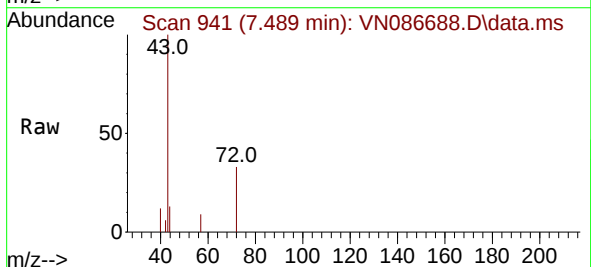


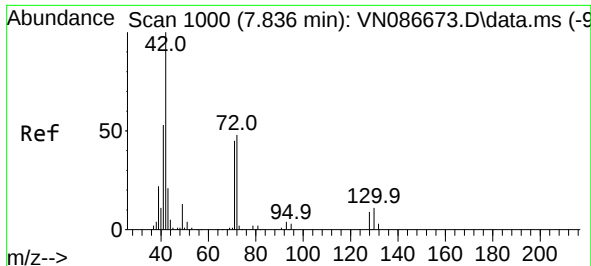
Tgt Ion:	84	Resp:	15805
Ion	Ratio	Lower	Upper
84	100		
49	107.3	88.8	133.2
51	32.7	27.8	41.6
86	69.5	49.8	74.6



#25
2-Butanone
Concen: 6.190 ug/l
RT: 7.489 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

Tgt Ion:	43	Resp:	9243
Ion	Ratio	Lower	Upper
43	100		
72	32.9	23.1	34.7





#29

Tetrahydrofuran

Concen: 0.579 ug/l

RT: 7.841 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN086688.D

Acq: 19 May 2025 14:39

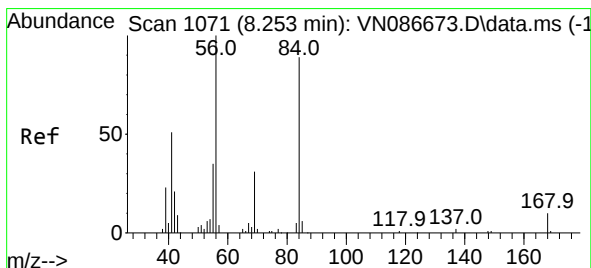
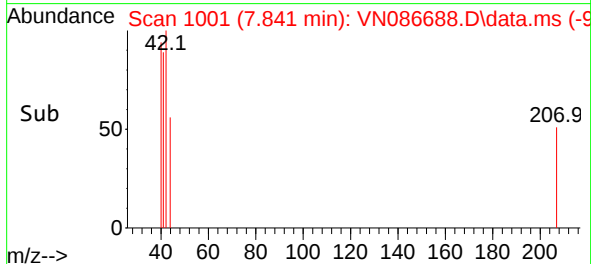
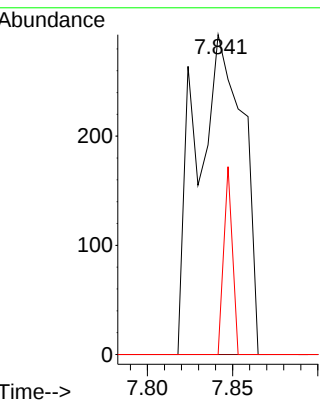
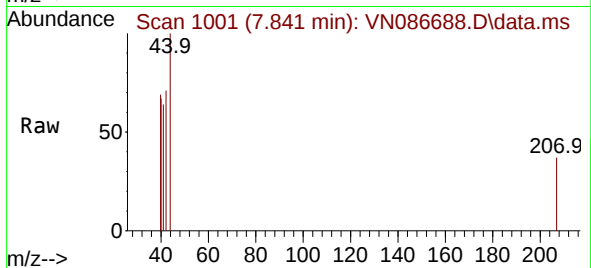
Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#05

Tgt Ion:	42	Resp:	564
Ion	Ratio	Lower	Upper
42	100		
72	0.0	38.7	58.1#
71	10.8	36.2	54.4#



#31

Cyclohexane

Concen: 1.028 ug/l

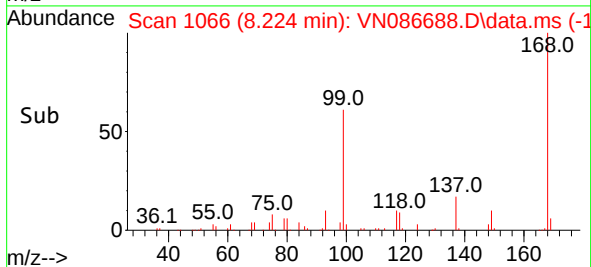
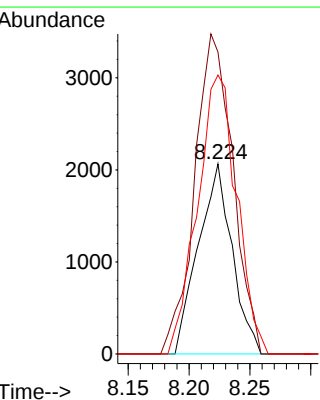
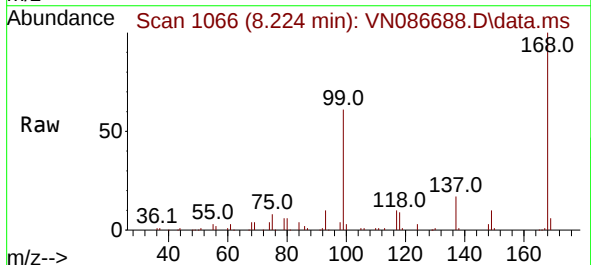
RT: 8.224 min Scan# 1066

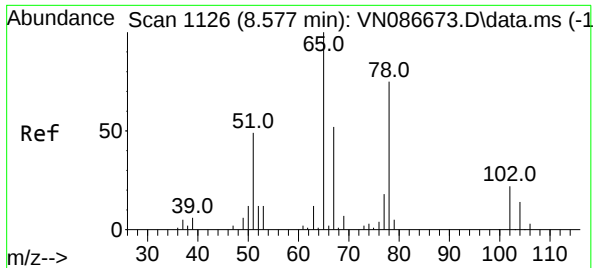
Delta R.T. -0.029 min

Lab File: VN086688.D

Acq: 19 May 2025 14:39

Tgt Ion:	56	Resp:	3986
Ion	Ratio	Lower	Upper
56	100		
69	158.8	25.0	37.6#
84	146.8	71.0	106.4#





#33

1,2-Dichloroethane-d4

Concen: 51.658 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086688.D

Acq: 19 May 2025 14:39

Instrument :

MSVOA_N

ClientSampleId :

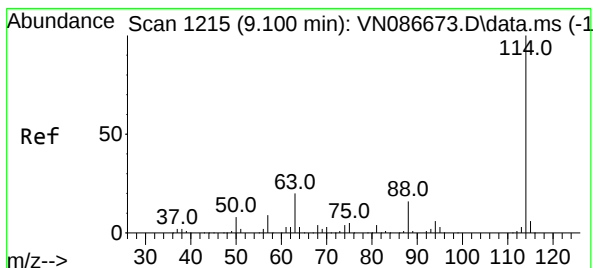
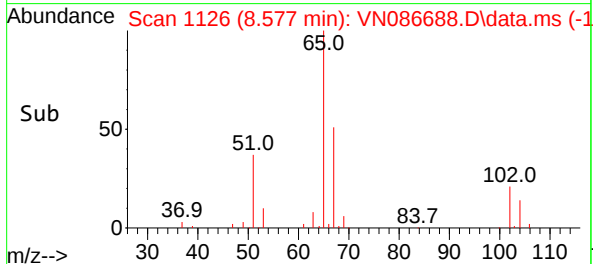
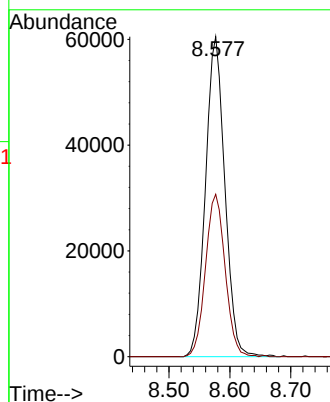
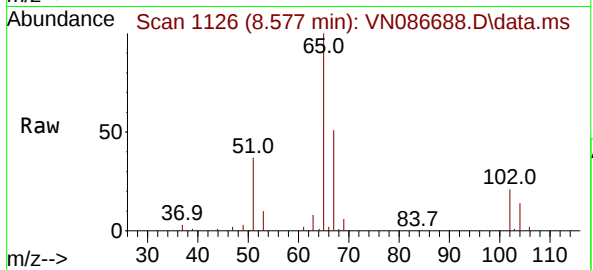
PB168034ZHE#05

Tgt Ion: 65 Resp: 133448

Ion Ratio Lower Upper

65 100

67 51.5 0.0 106.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. -0.000 min

Lab File: VN086688.D

Acq: 19 May 2025 14:39

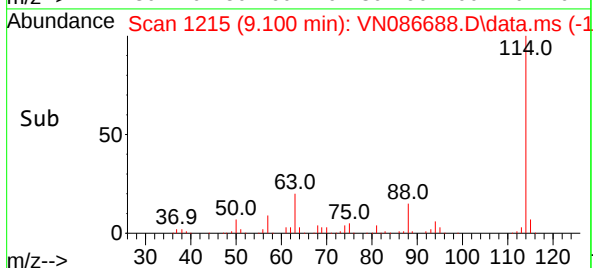
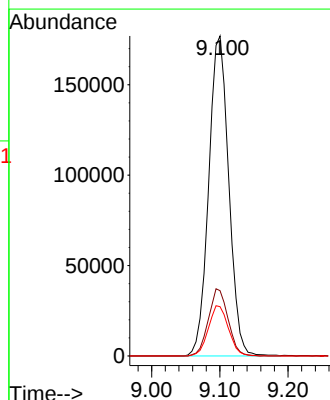
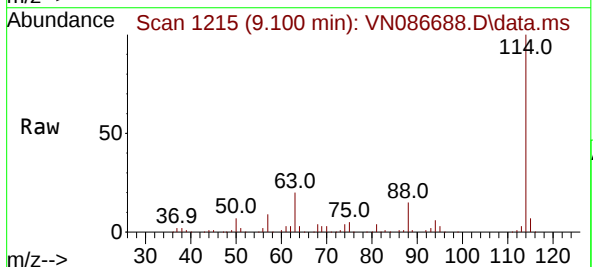
Tgt Ion: 114 Resp: 362386

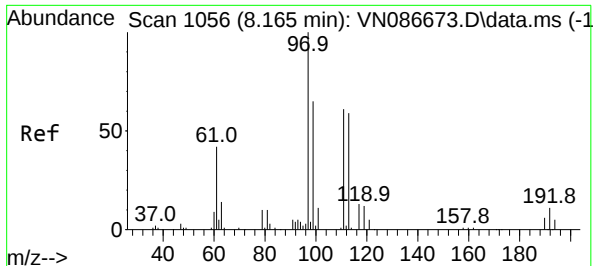
Ion Ratio Lower Upper

114 100

63 20.4 0.0 40.2

88 15.4 0.0 31.2





#35

Dibromofluoromethane

Concen: 50.634 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086688.D

Acq: 19 May 2025 14:39

Instrument :

MSVOA_N

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PB168034ZHE#05

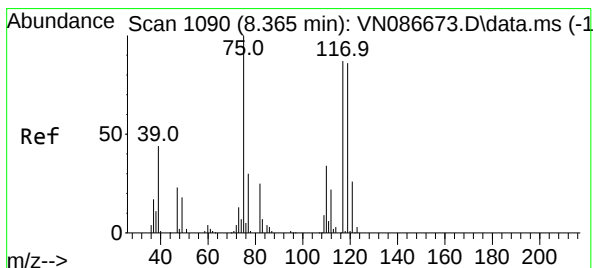
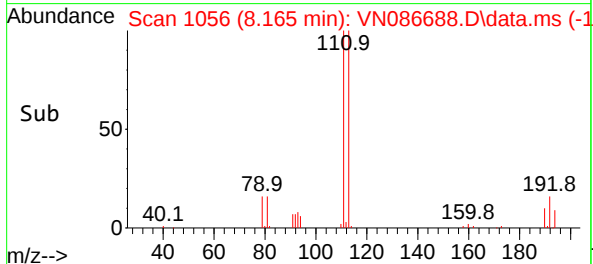
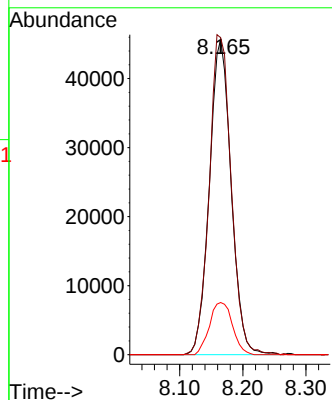
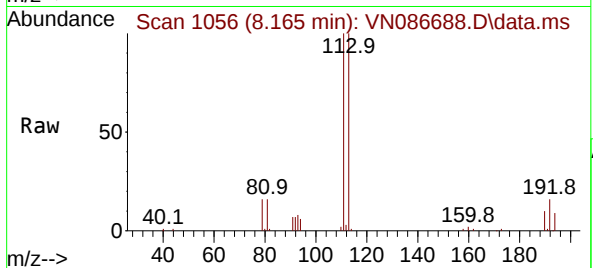
Tgt Ion:113 Resp: 109276

Ion Ratio Lower Upper

113 100

111 102.7 82.2 123.2

192 17.5 13.8 20.8



#36

1,1-Dichloropropene

Concen: 4.783 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086688.D

Acq: 19 May 2025 14:39

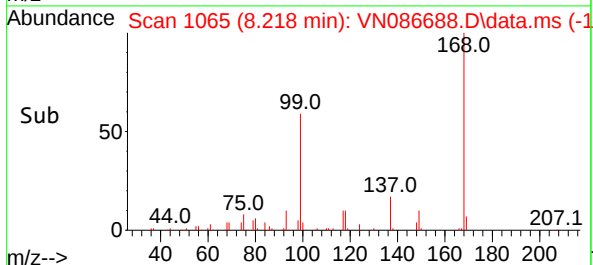
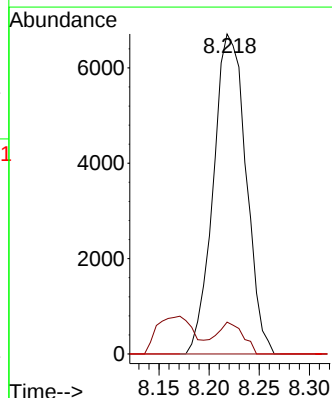
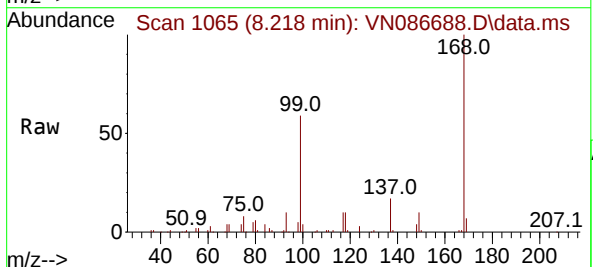
Tgt Ion: 75 Resp: 15225

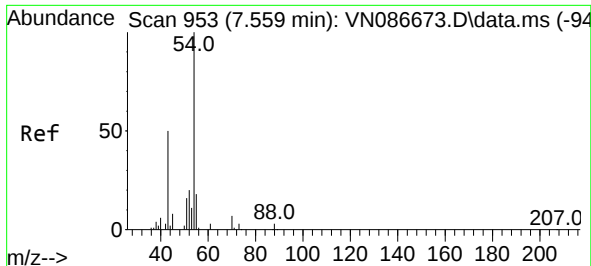
Ion Ratio Lower Upper

75 100

110 8.3 17.5 52.5#

77 0.0 25.1 37.7#

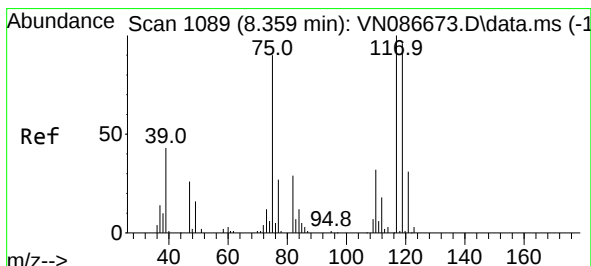
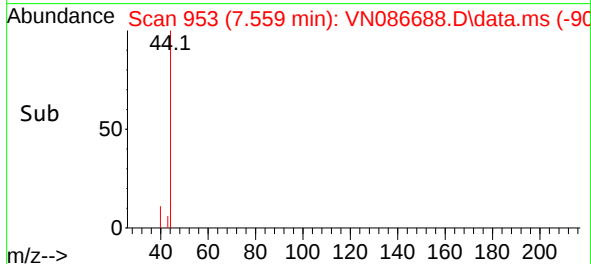
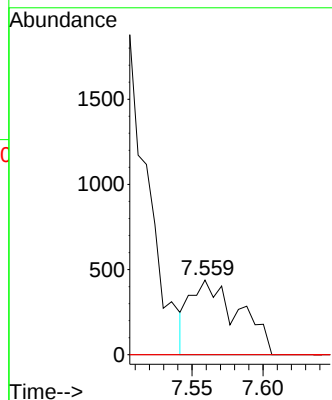
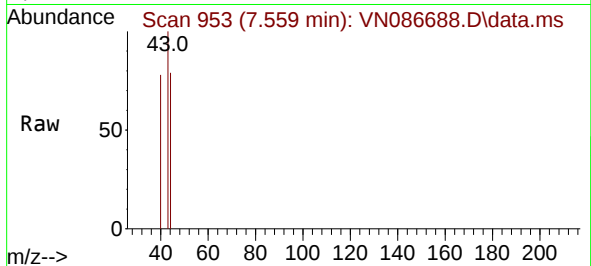




#37
Ethyl Acetate
Concen: 0.325 ug/l
RT: 7.559 min Scan# 91
Delta R.T. 0.000 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

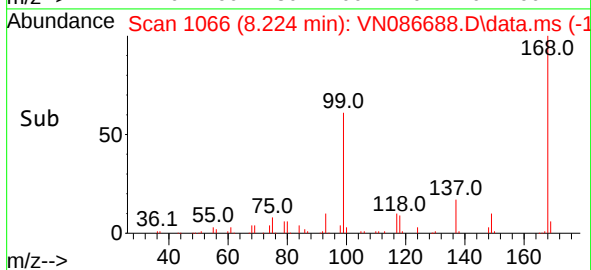
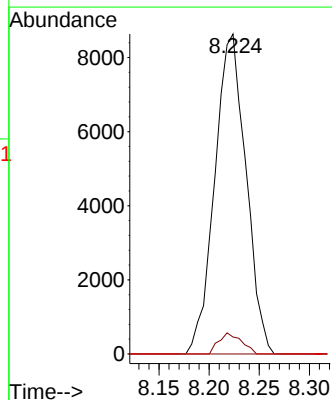
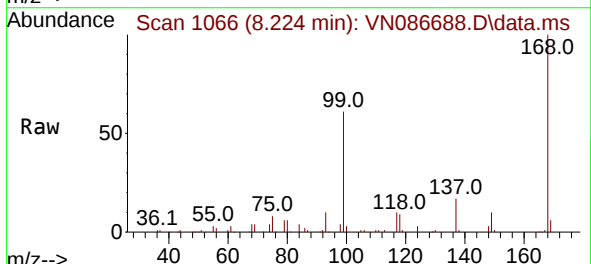
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#05

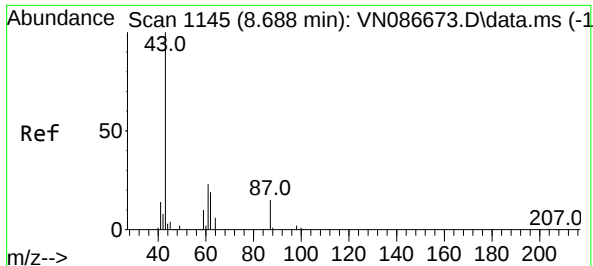
Tgt Ion: 43 Resp: 1044
Ion Ratio Lower Upper
43 100
61 0.0 11.6 17.4#
70 0.0 9.4 14.0#



#38
Carbon Tetrachloride
Concen: 5.969 ug/l
RT: 8.224 min Scan# 1066
Delta R.T. -0.135 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

Tgt Ion: 117 Resp: 18722
Ion Ratio Lower Upper
117 100
119 5.3 77.0 115.6#
121 0.0 25.0 37.6#





#43

Isopropyl Acetate

Concen: 7.894 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. 0.000 min

Lab File: VN086688.D

Acq: 19 May 2025 14:39

Instrument :

MSVOA_N

ClientSampleId :

PB168034ZHE#05

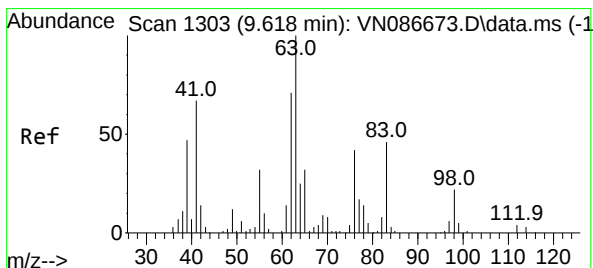
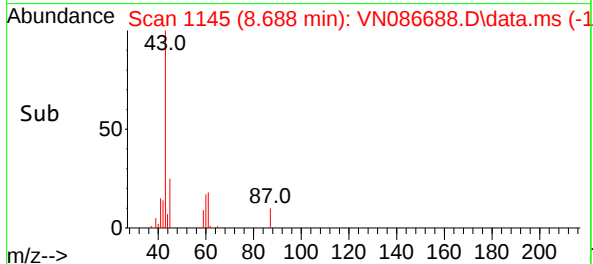
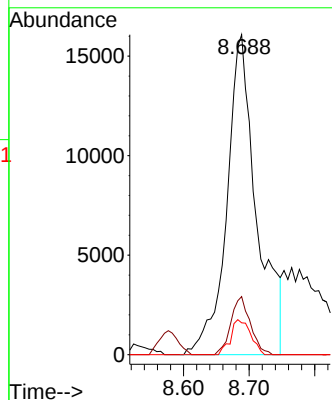
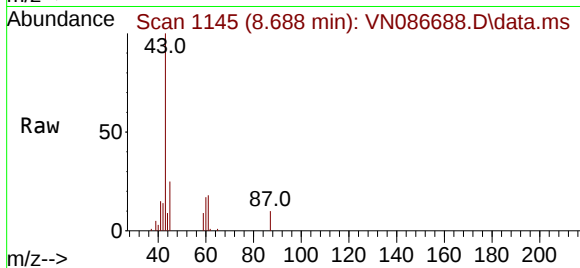
Tgt Ion: 43 Resp: 50891

Ion Ratio Lower Upper

43 100

61 11.9 21.4 32.2#

87 7.3 11.1 16.7#



#45

1,2-Dichloropropane

Concen: 0.433 ug/l

RT: 9.735 min Scan# 1323

Delta R.T. 0.118 min

Lab File: VN086688.D

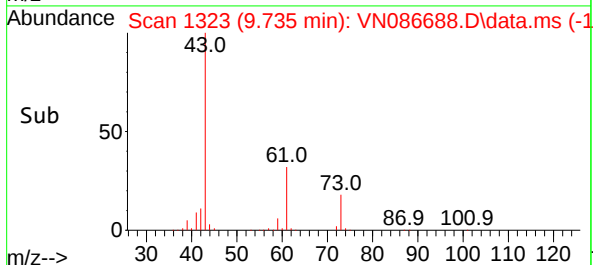
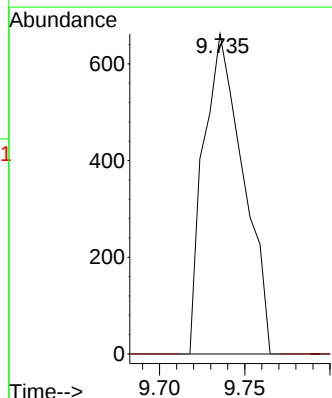
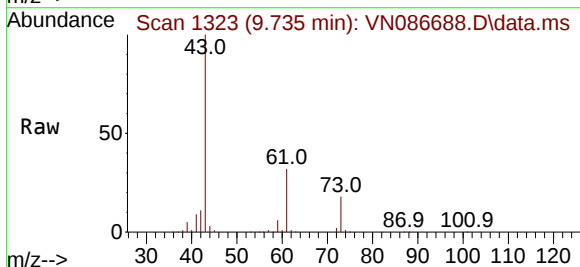
Acq: 19 May 2025 14:39

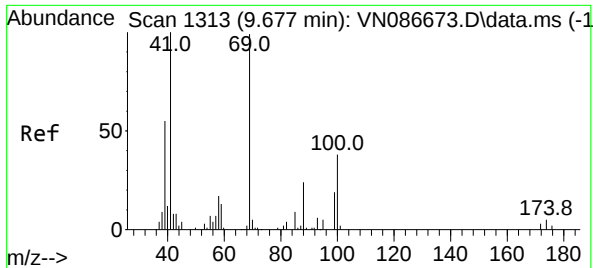
Tgt Ion: 63 Resp: 1069

Ion Ratio Lower Upper

63 100

65 0.0 25.8 38.6#

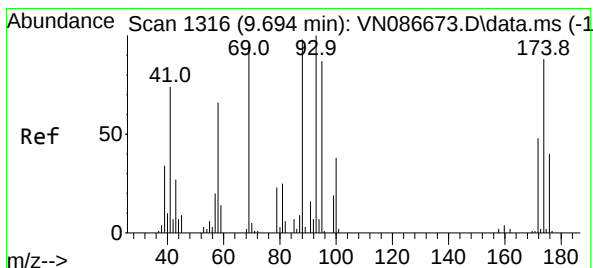
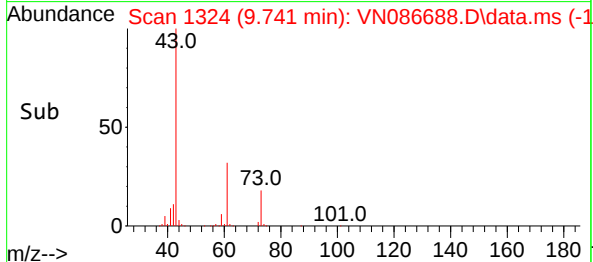
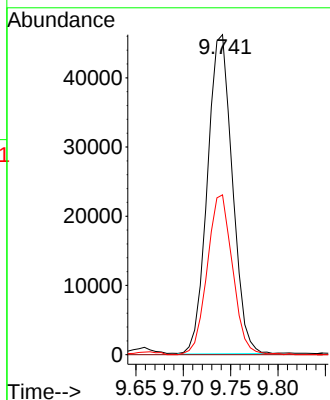
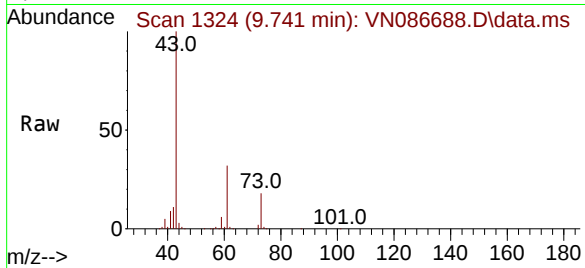




#48
Methyl methacrylate
Concen: 33.775 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.065 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

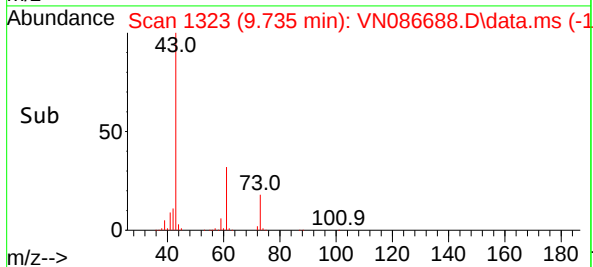
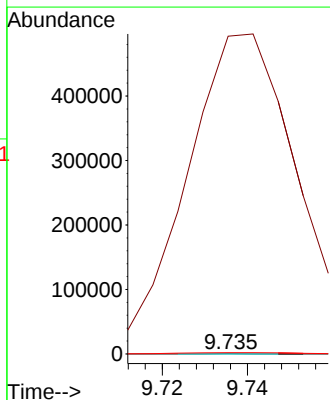
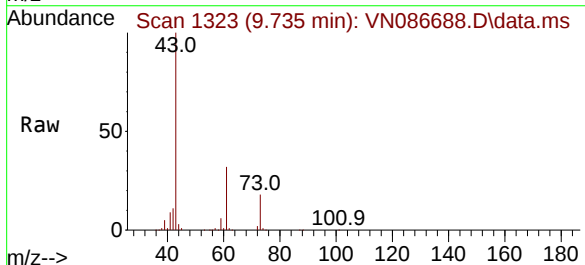
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#05

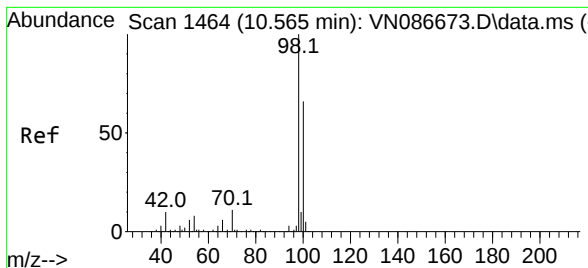
Tgt Ion: 41 Resp: 84369
Ion Ratio Lower Upper
41 100
69 0.0 74.1 111.1#
39 50.9 44.1 66.1



#49
1,4-Dioxane
Concen: 1.097 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.041 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

Tgt Ion: 88 Resp: 58
Ion Ratio Lower Upper
88 100
43 1579822.4 23.6 35.4#
58 6967.2 55.3 82.9#

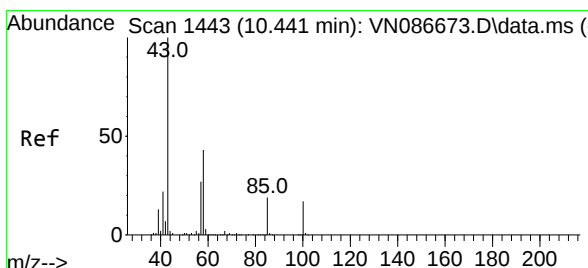
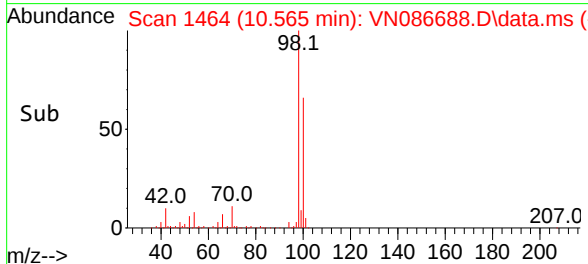
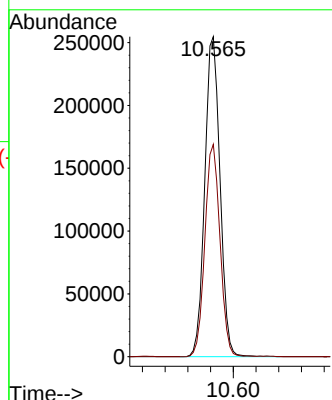
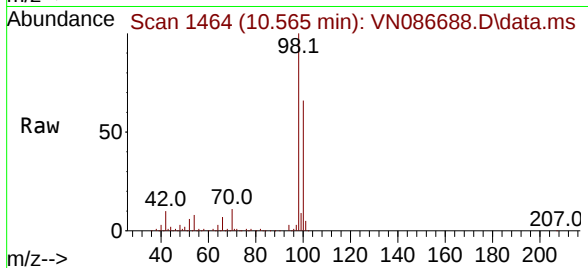




#50
Toluene-d8
Concen: 52.849 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

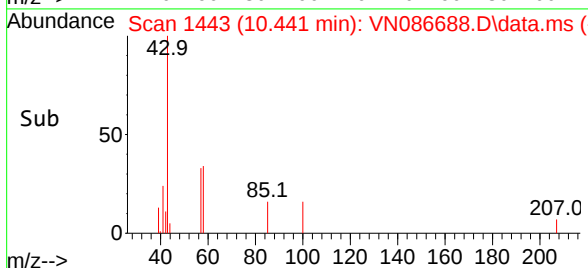
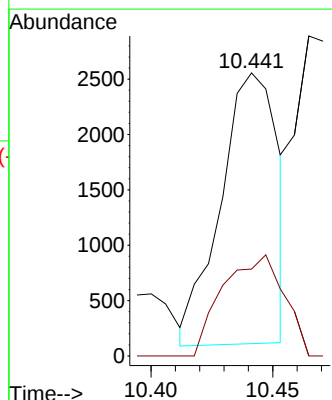
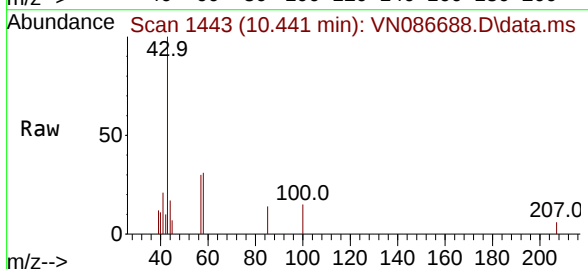
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#05

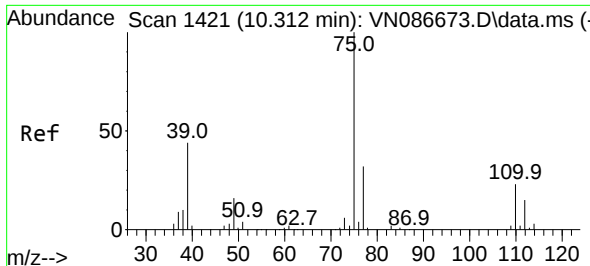
Tgt Ion: 98 Resp: 472659
Ion Ratio Lower Upper
98 100
100 65.9 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 1.231 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. -0.000 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

Tgt Ion: 43 Resp: 4002
Ion Ratio Lower Upper
43 100
58 39.8 33.9 50.9

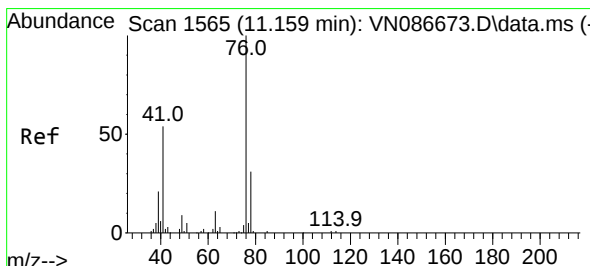
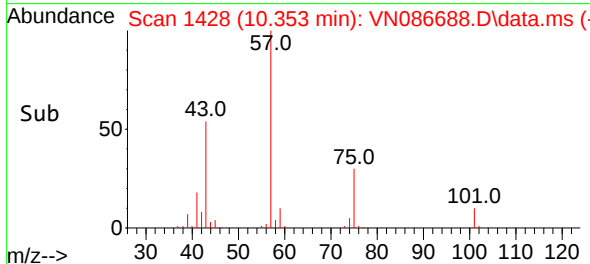
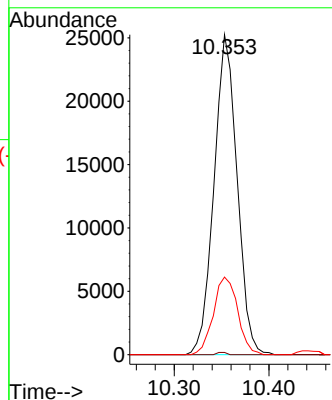
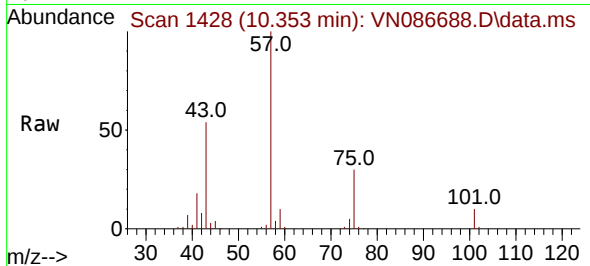




#54
 cis-1,3-Dichloropropene
 Concen: 10.773 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086688.D
 Acq: 19 May 2025 14:39

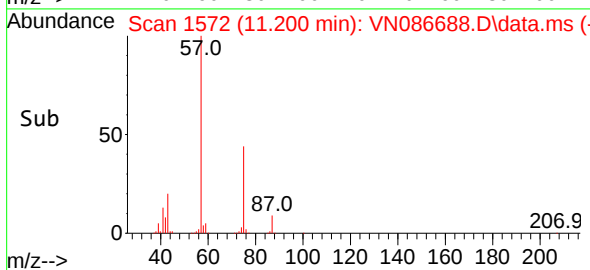
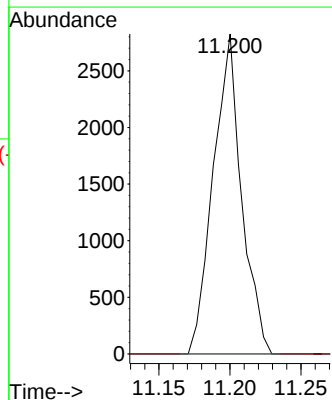
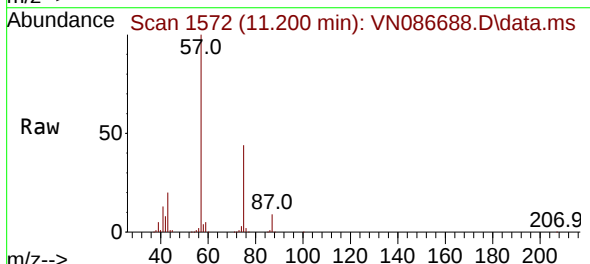
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#05

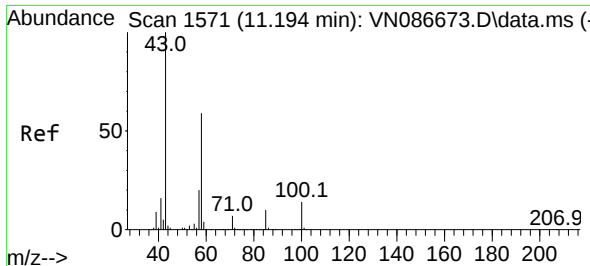
Tgt Ion: 75 Resp: 42704
 Ion Ratio Lower Upper
 75 100
 77 0.7 25.3 37.9#
 39 24.3 35.2 52.8#



#57
 1,3-Dichloropropane
 Concen: 0.944 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086688.D
 Acq: 19 May 2025 14:39

Tgt Ion: 76 Resp: 3916
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

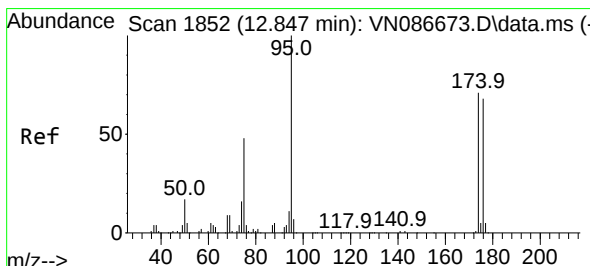
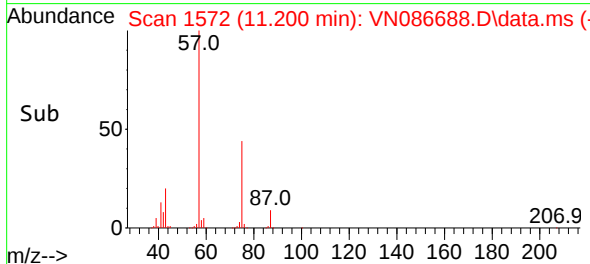
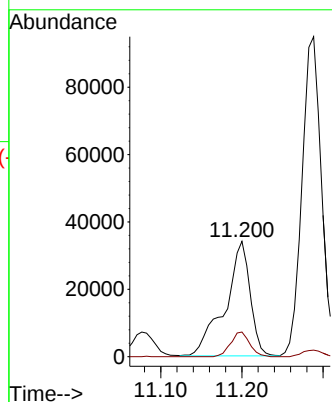
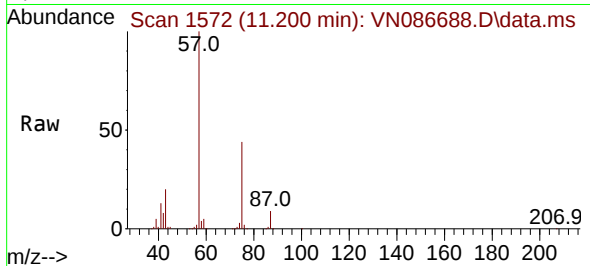




#59
2-Hexanone
Concen: 30.790 ug/l
RT: 11.200 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

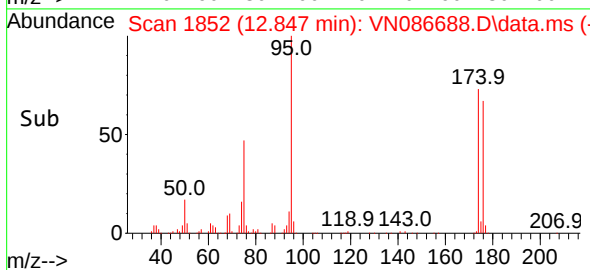
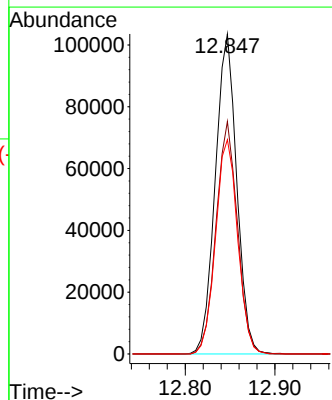
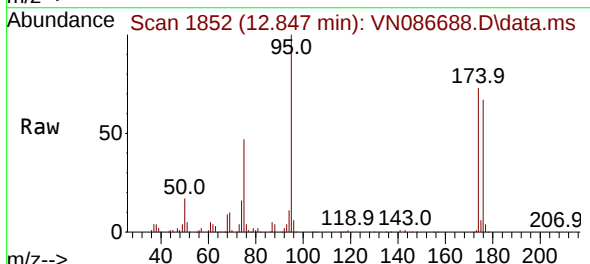
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#05

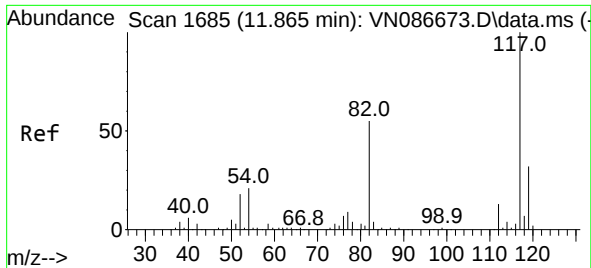
Tgt Ion: 43 Resp: 73095
Ion Ratio Lower Upper
43 100
58 16.3 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 54.385 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

Tgt Ion: 95 Resp: 171742
Ion Ratio Lower Upper
95 100
174 72.5 0.0 145.4
176 69.0 0.0 137.8

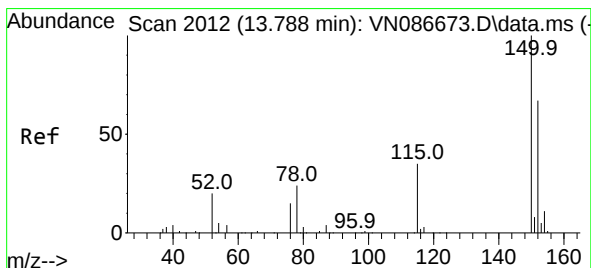
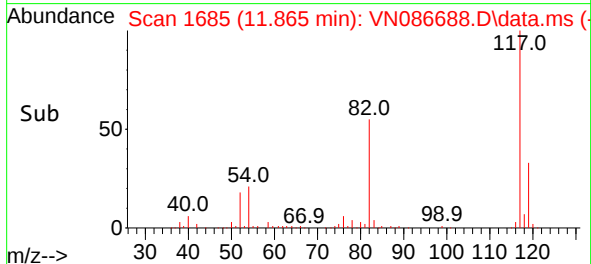
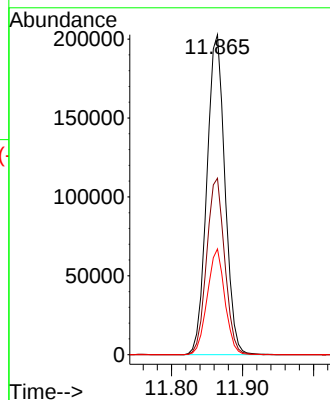
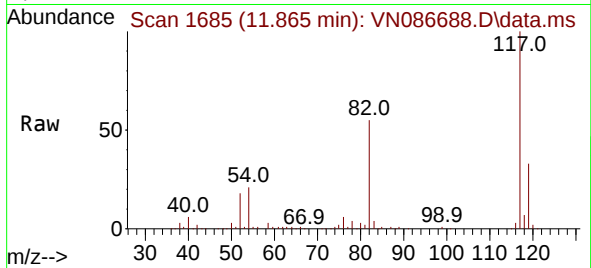




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. 0.000 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

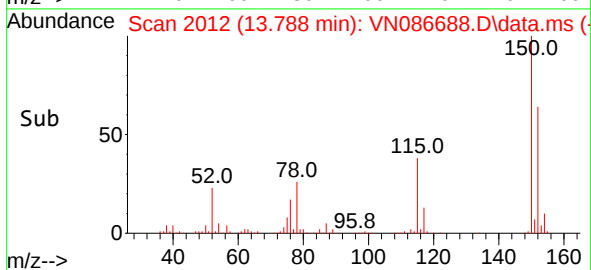
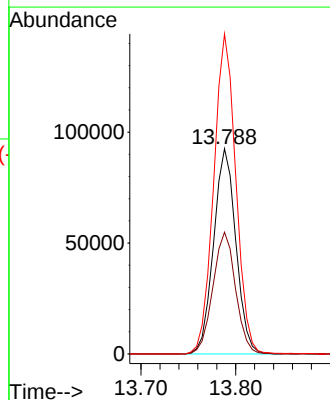
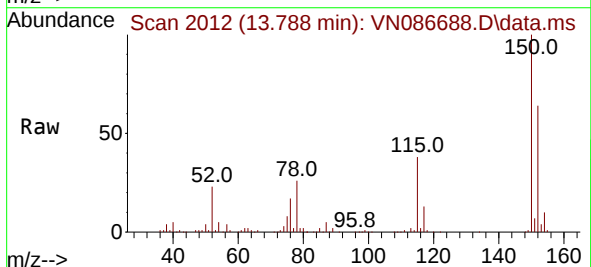
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#05

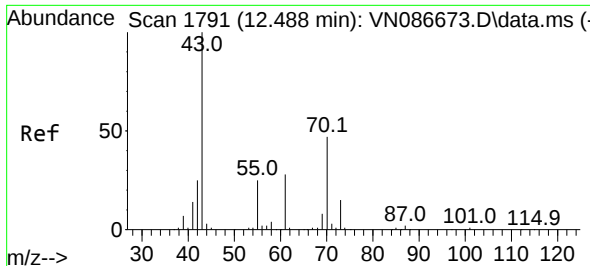
Tgt Ion:117 Resp: 358721
Ion Ratio Lower Upper
117 100
82 55.2 44.2 66.2
119 33.1 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

Tgt Ion:152 Resp: 150940
Ion Ratio Lower Upper
152 100
115 60.4 30.0 90.1
150 155.3 0.0 347.8

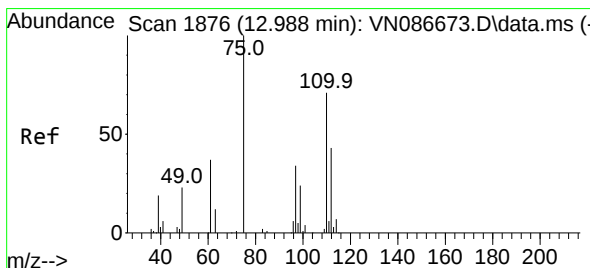
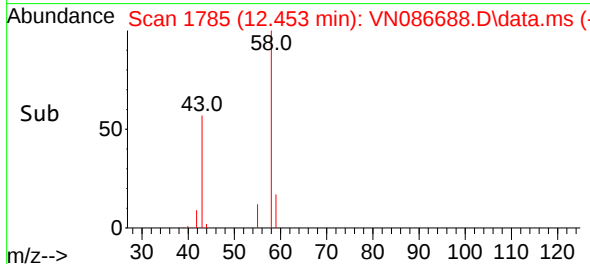
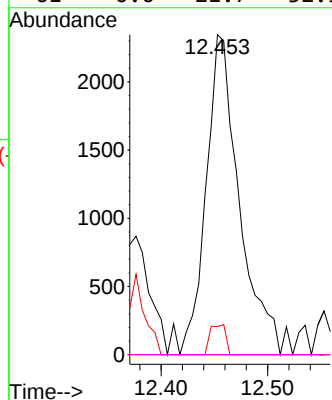
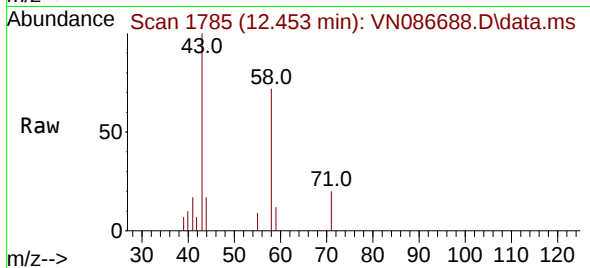




#74
N-amy1 acetate
Concen: 1.039 ug/l
RT: 12.453 min Scan# 11
Delta R.T. -0.035 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

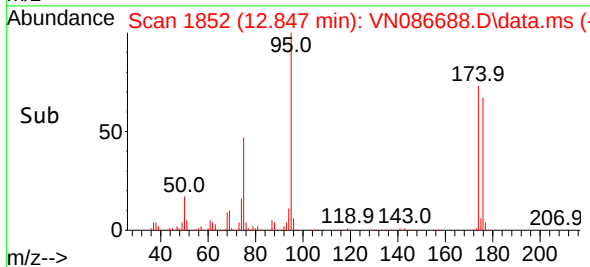
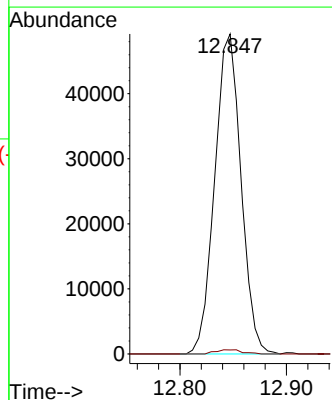
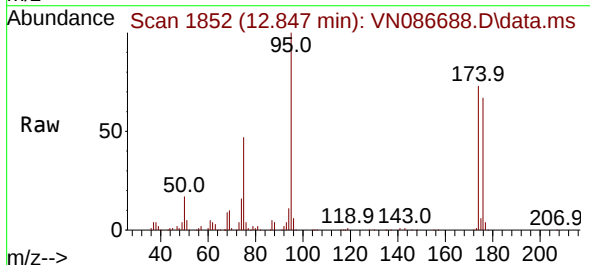
Instrument :
MSVOA_N
ClientSampleId :
PB168034ZHE#05

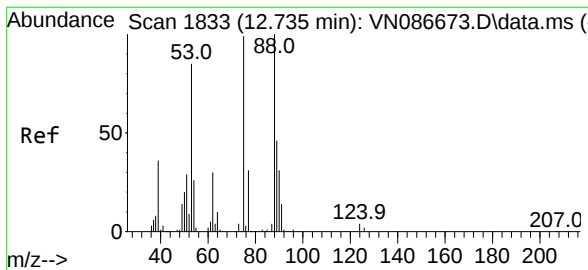
Tgt Ion: 43	Resp:	5059
Ion	Ratio	Lower Upper
43	100	
70	0.0	37.9 56.9#
55	4.4	20.5 30.7#
61	0.0	21.7 32.5#



#76
1,2,3-Trichloropropane
Concen: 24.638 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086688.D
Acq: 19 May 2025 14:39

Tgt Ion: 75	Resp:	84104
Ion	Ratio	Lower Upper
75	100	
77	1.3	96.0 288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 62.177 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086688.D
 Acq: 19 May 2025 14:39

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168034ZHE#05

Tgt Ion: 75 Resp: 84104
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.0 32.4 48.6#

