

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086841.D
 Acq On : 03 Jun 2025 14:33
 Operator : JC\MD
 Sample : PB168225ZHE#02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#02

Quant Time: Jun 04 01:59:29 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)

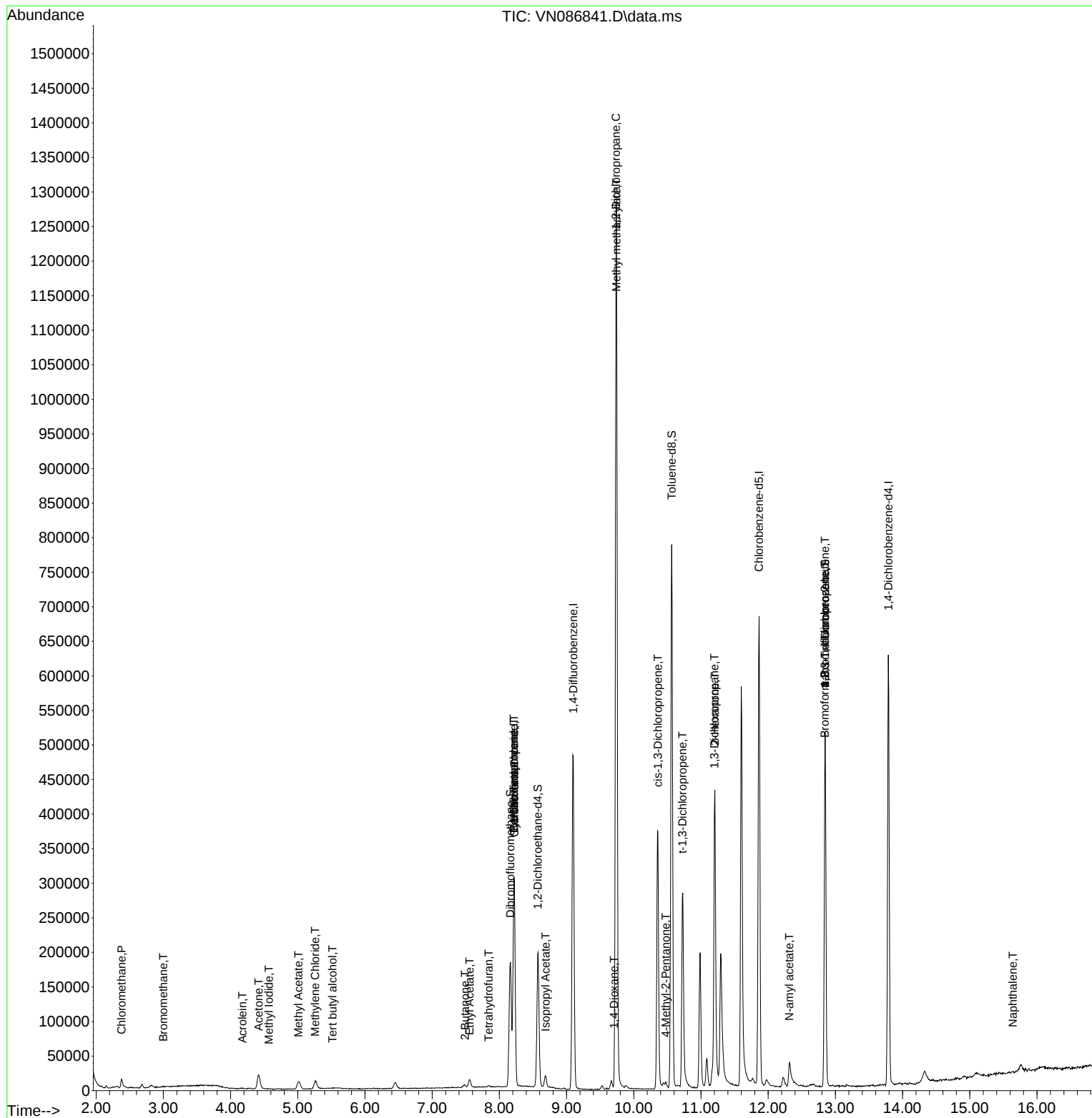
Internal Standards						
1) Pentafluorobenzene	8.218	168	232422	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	451025	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	415239	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	177371	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	159468	49.653	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	99.300%
35) Dibromofluoromethane	8.165	113	141089	52.527	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	105.060%
50) Toluene-d8	10.565	98	567201	50.956	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	101.920%
62) 4-Bromofluorobenzene	12.847	95	204074	51.923	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	103.840%
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	21534	5.672	ug/l	99
5) Bromomethane	3.001	94	474	0.241	ug/l	98
10) Methyl Iodide	4.571	142	613	0.202	ug/l #	43
11) Tert butyl alcohol	5.518	59	384	0.656	ug/l #	73
13) Acrolein	4.177	56	645	1.032	ug/l #	39
16) Acetone	4.418	43	39877	33.193	ug/l	93
18) Methyl Acetate	5.012	43	24424	7.264	ug/l	98
20) Methylene Chloride	5.259	84	8982	2.833	ug/l #	92
25) 2-Butanone	7.488	43	7145	3.849	ug/l	98
29) Tetrahydrofuran	7.841	42	1077	0.889	ug/l #	90
31) Cyclohexane	8.224	56	4288	0.890	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	18442	4.655	ug/l #	47
37) Ethyl Acetate	7.559	43	17388	4.345	ug/l	98
38) Carbon Tetrachloride	8.218	117	22780	5.835	ug/l #	16
43) Isopropyl Acetate	8.688	43	19980	2.490	ug/l #	92
45) 1,2-Dichloropropane	9.735	63	1664	0.542	ug/l #	42
48) Methyl methacrylate	9.741	41	108260	34.821	ug/l #	35
49) 1,4-Dioxane	9.706	88	599	9.099	ug/l #	24
51) 4-Methyl-2-Pentanone	10.477	43	6366	1.573	ug/l #	33
53) t-1,3-Dichloropropene	10.724	75	1024	0.227	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	83111	16.846	ug/l #	54
57) 1,3-Dichloropropane	11.200	76	5318	1.030	ug/l #	42
59) 2-Hexanone	11.206	43	85291	28.867	ug/l #	42
71) Bromoform	12.841	173	828	0.396	ug/l #	1
74) N-amyl acetate	12.312	43	18122	3.166	ug/l #	50
76) 1,2,3-Trichloropropane	12.847	75	96042	23.942	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	96042	60.422	ug/l #	15
95) Naphthalene	15.641	128	2134	0.257	ug/l #	96

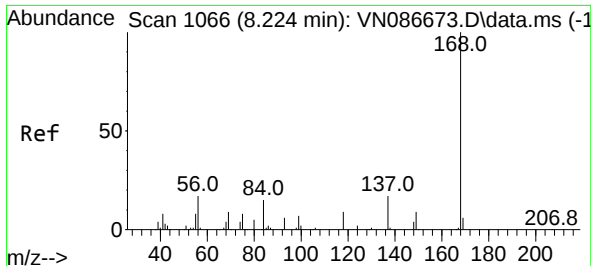
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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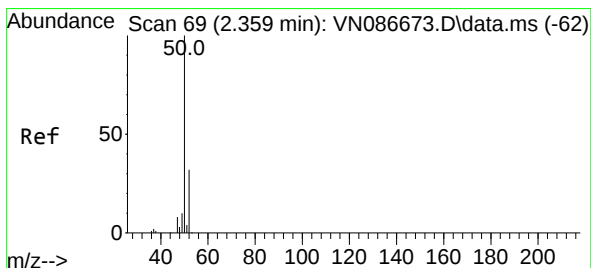
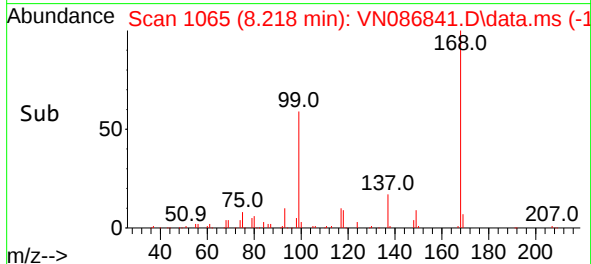
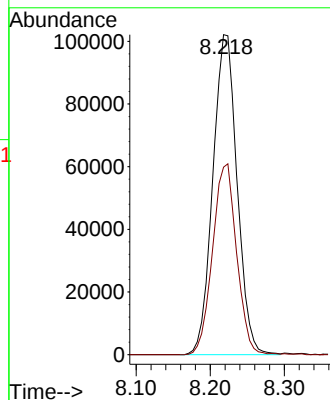
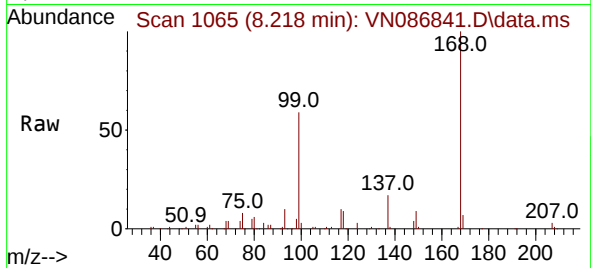




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

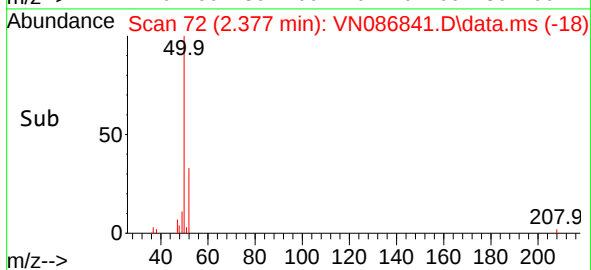
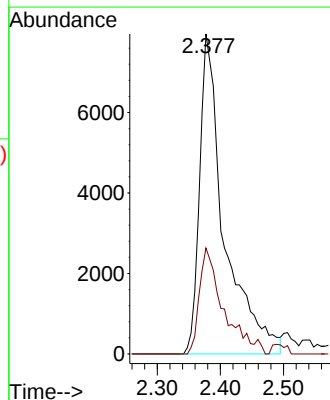
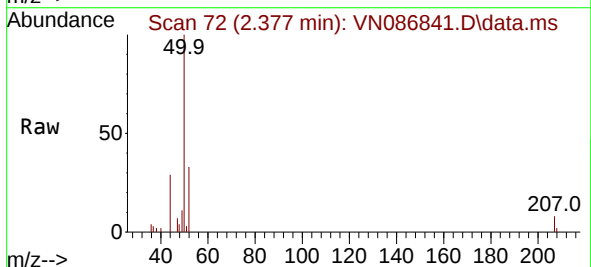
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#02

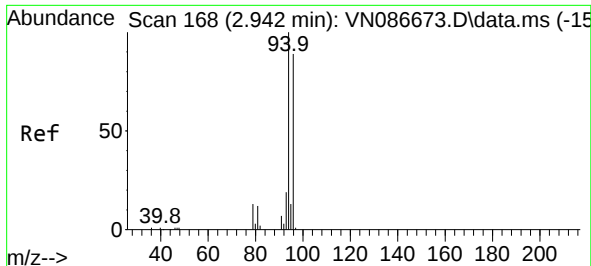
Tgt Ion:168 Resp: 232422
Ion Ratio Lower Upper
168 100
99 58.6 47.0 70.4



#3
Chloromethane
Concen: 5.672 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.018 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

Tgt Ion: 50 Resp: 21534
Ion Ratio Lower Upper
50 100
52 33.1 25.9 38.9

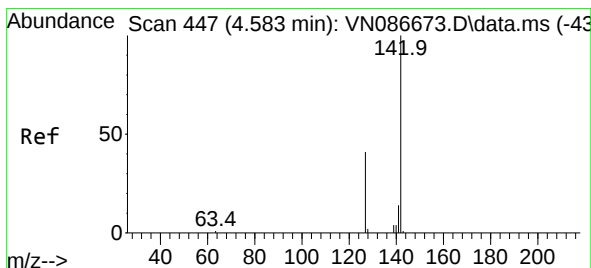
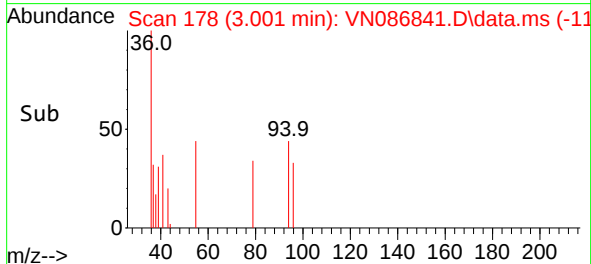
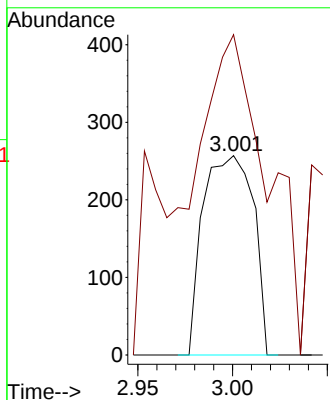
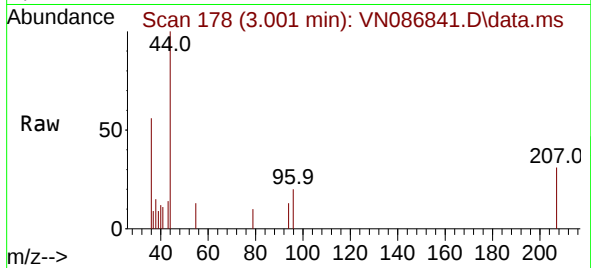




#5
Bromomethane
Concen: 0.241 ug/l
RT: 3.001 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

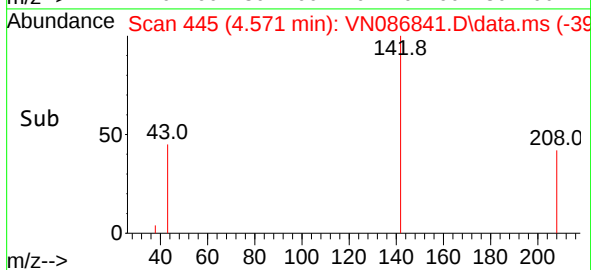
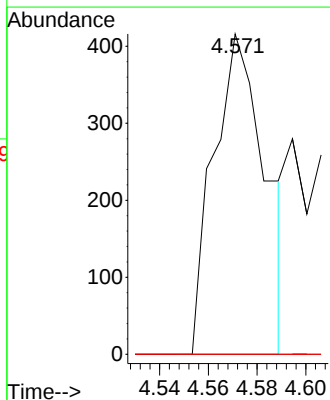
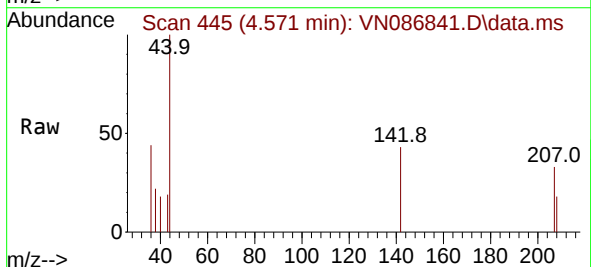
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#02

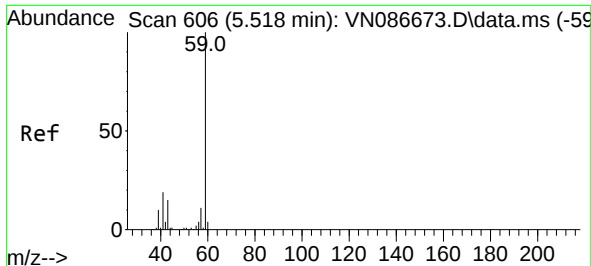
Tgt Ion: 94 Resp: 474
Ion Ratio Lower Upper
94 100
96 86.8 71.2 106.8



#10
Methyl Iodide
Concen: 0.202 ug/l
RT: 4.571 min Scan# 445
Delta R.T. -0.012 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

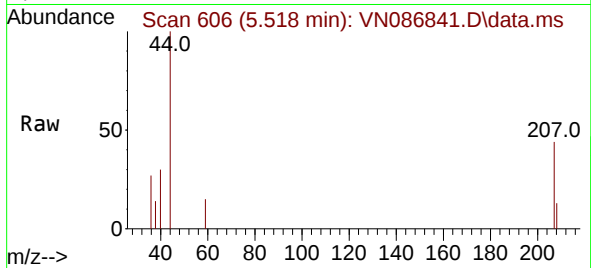
Tgt Ion:142 Resp: 613
Ion Ratio Lower Upper
142 100
127 0.0 32.4 48.6#
141 0.0 11.4 17.2#



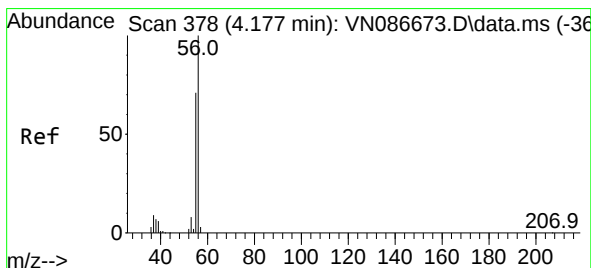
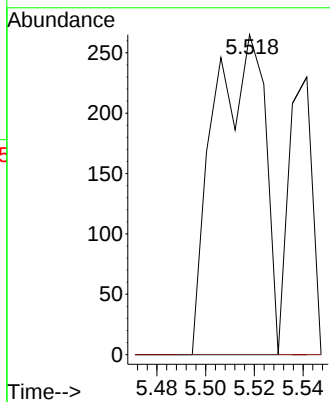
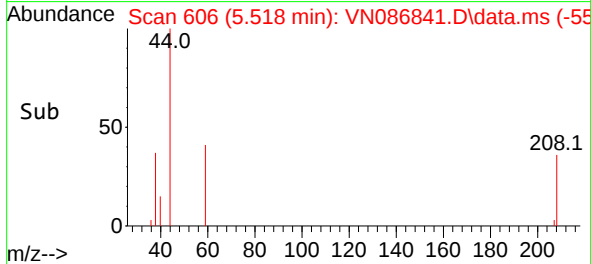


#11
Tert butyl alcohol
Concen: 0.656 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#02

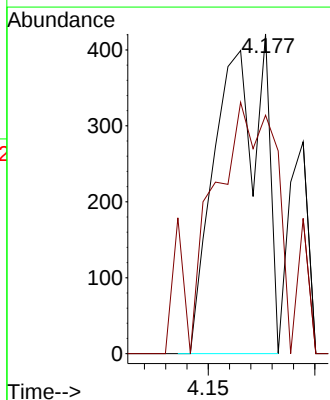
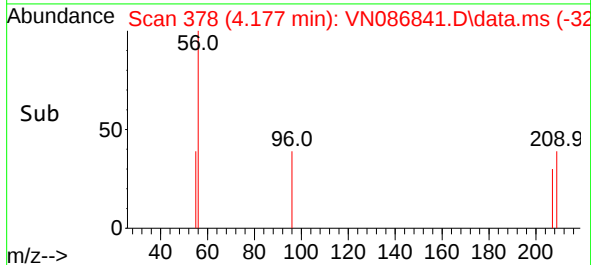
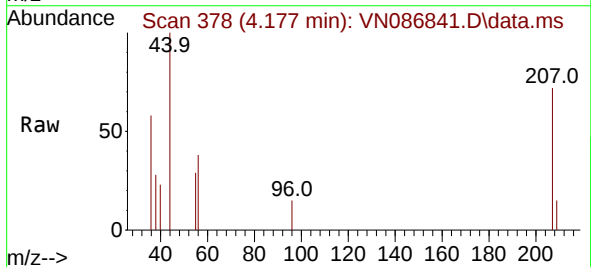


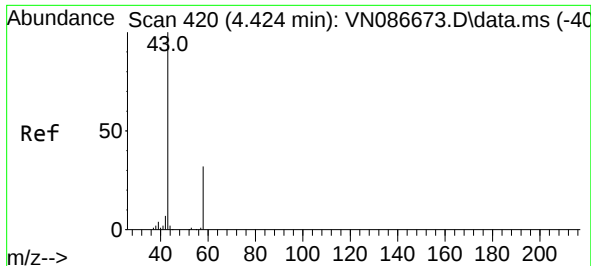
Tgt Ion: 59 Resp: 384
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 1.032 ug/l
RT: 4.177 min Scan# 378
Delta R.T. -0.000 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

Tgt Ion: 56 Resp: 645
Ion Ratio Lower Upper
56 100
55 119.7 55.7 83.5#

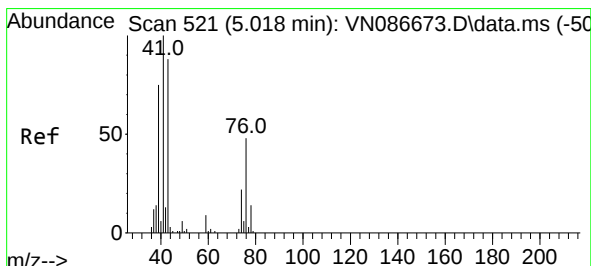
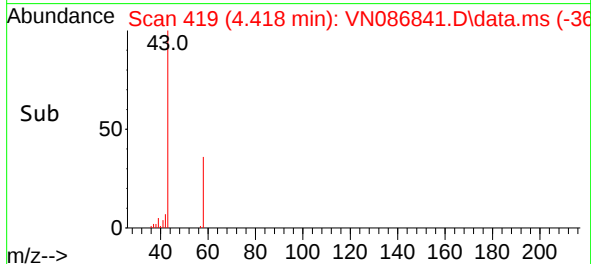
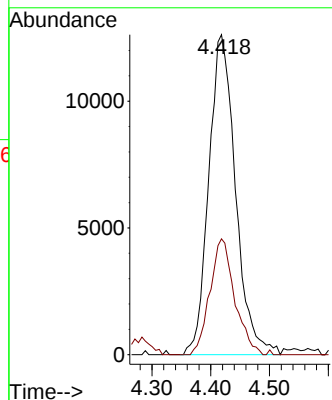
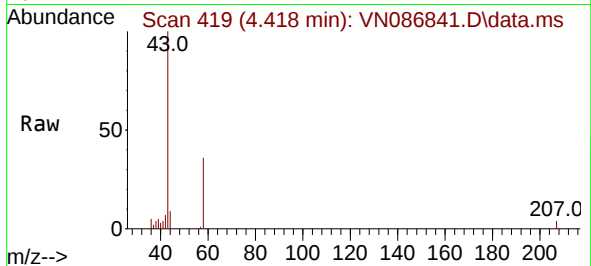




#16
Acetone
Concen: 33.193 ug/l
RT: 4.418 min Scan# 41
Delta R.T. -0.006 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

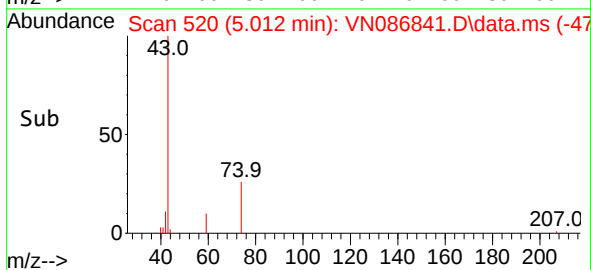
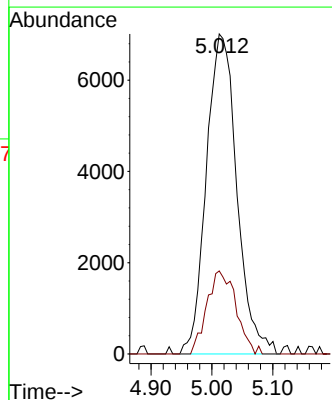
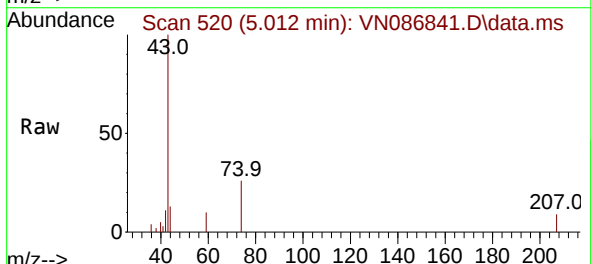
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#02

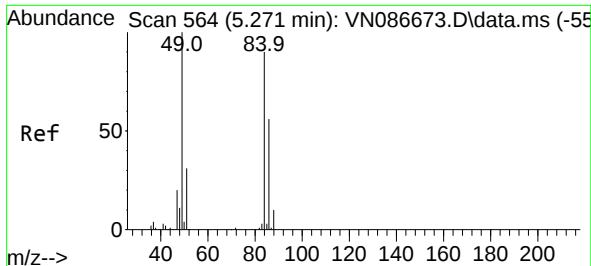
Tgt Ion: 43 Resp: 39877
Ion Ratio Lower Upper
43 100
58 36.2 25.8 38.6



#18
Methyl Acetate
Concen: 7.264 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

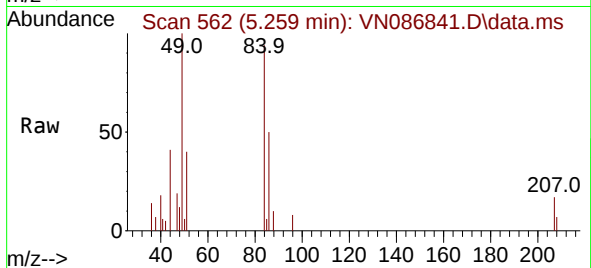
Tgt Ion: 43 Resp: 24424
Ion Ratio Lower Upper
43 100
74 24.8 20.5 30.7



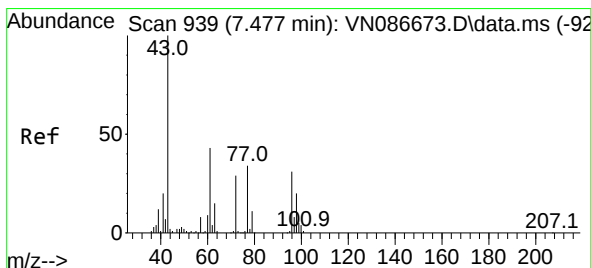
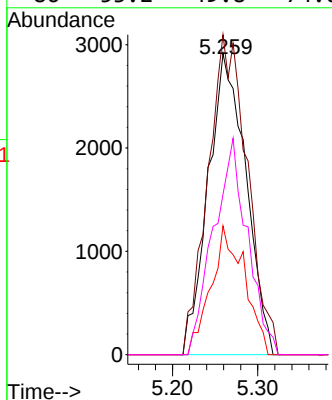
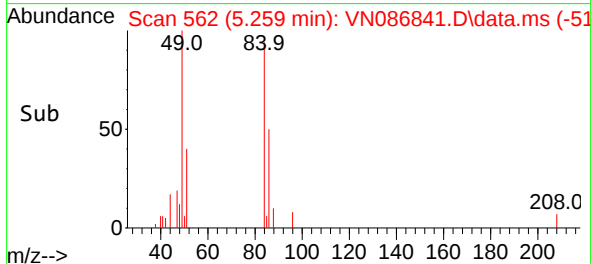


#20
Methylene Chloride
Concen: 2.833 ug/l
RT: 5.259 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

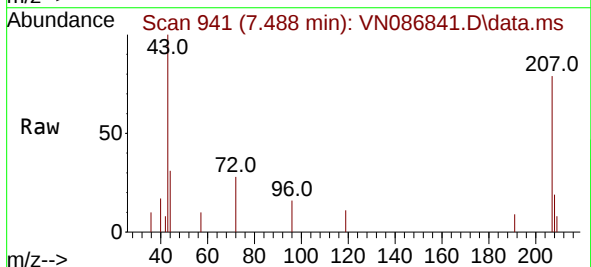
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#02



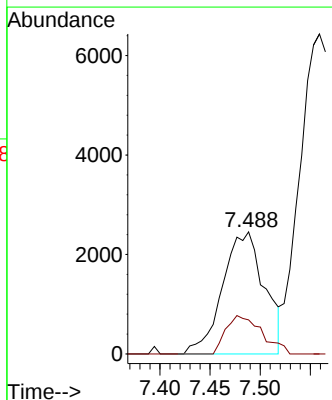
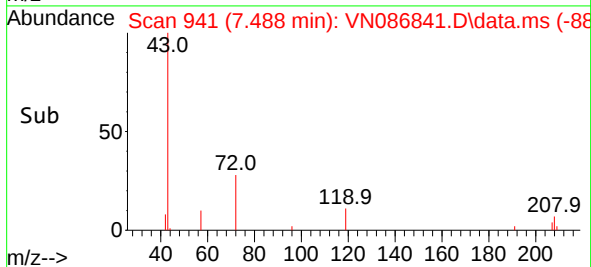
Tgt Ion:	84	Resp:	8982
Ion	Ratio	Lower	Upper
84	100		
49	106.2	88.8	133.2
51	42.8	27.8	41.6#
86	53.2	49.8	74.6

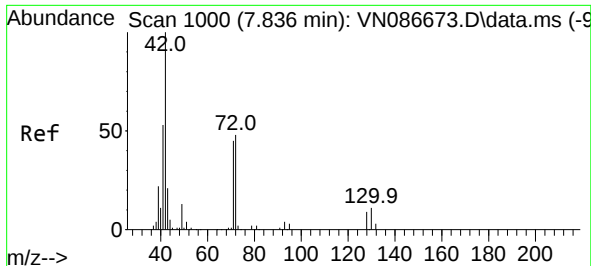


#25
2-Butanone
Concen: 3.849 ug/l
RT: 7.488 min Scan# 941
Delta R.T. 0.012 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33



Tgt Ion:	43	Resp:	7145
Ion	Ratio	Lower	Upper
43	100		
72	27.9	23.1	34.7





#29

Tetrahydrofuran

Concen: 0.889 ug/l

RT: 7.841 min Scan# 1077

Delta R.T. 0.006 min

Lab File: VN086841.D

Acq: 03 Jun 2025 14:33

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#02

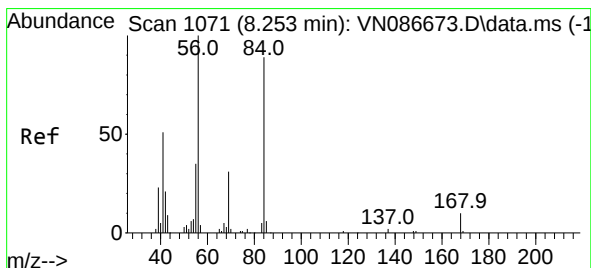
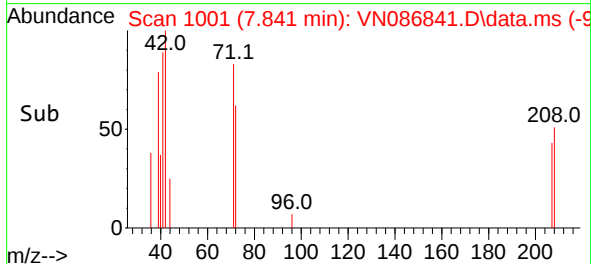
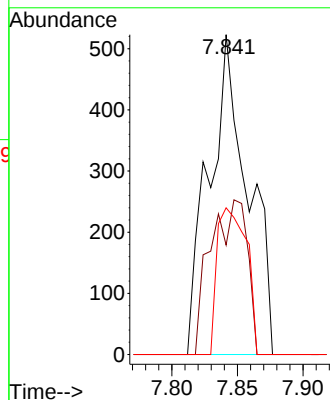
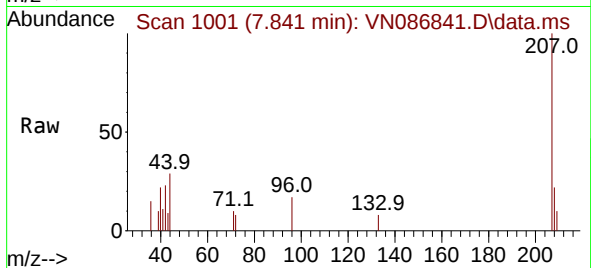
Tgt Ion: 42 Resp: 1077

Ion Ratio Lower Upper

42 100

72 45.8 38.7 58.1

71 34.7 36.2 54.4#



#31

Cyclohexane

Concen: 0.890 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN086841.D

Acq: 03 Jun 2025 14:33

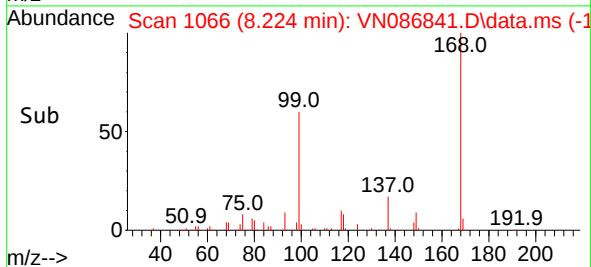
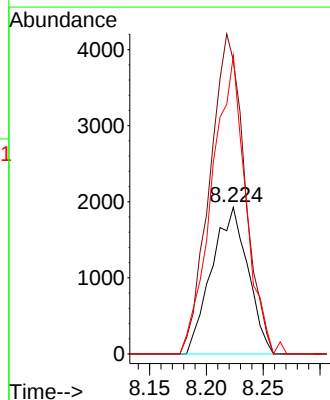
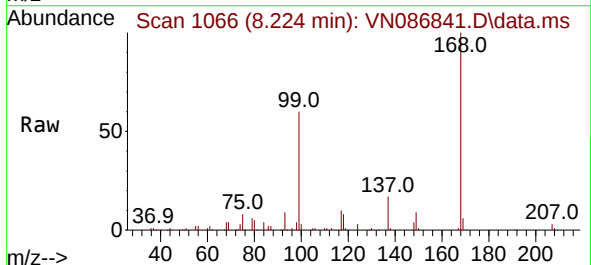
Tgt Ion: 56 Resp: 4288

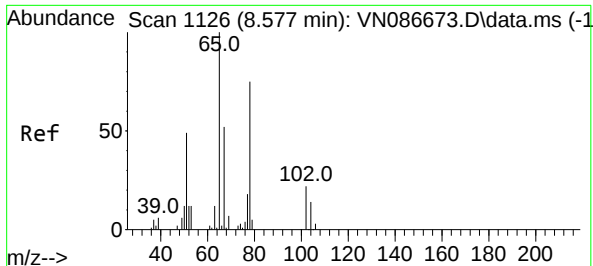
Ion Ratio Lower Upper

56 100

69 200.1 25.0 37.6#

84 203.2 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 49.653 ug/l

RT: 8.571 min Scan# 1126

Delta R.T. -0.006 min

Lab File: VN086841.D

Acq: 03 Jun 2025 14:33

Instrument :

MSVOA_N

ClientSampleId :

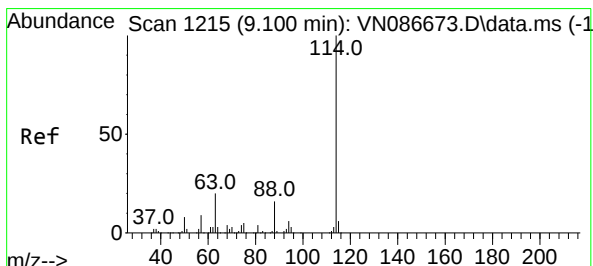
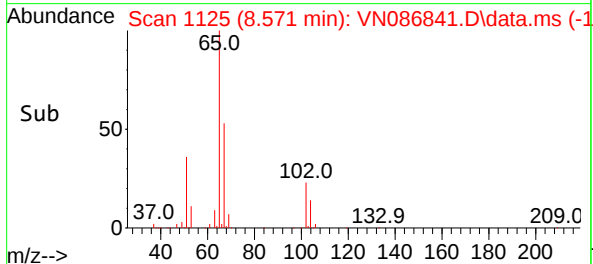
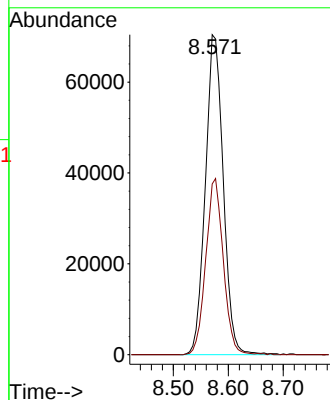
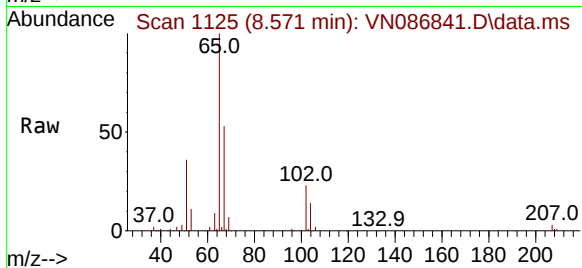
PB168225ZHE#02

Tgt Ion: 65 Resp: 159468

Ion Ratio Lower Upper

65 100

67 53.8 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: VN086841.D

Acq: 03 Jun 2025 14:33

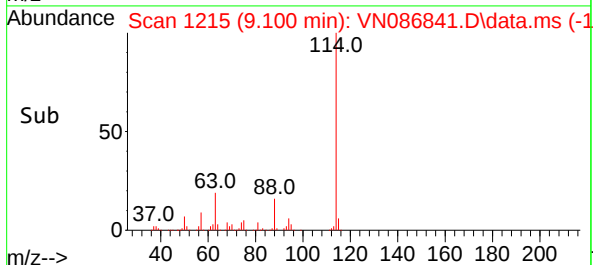
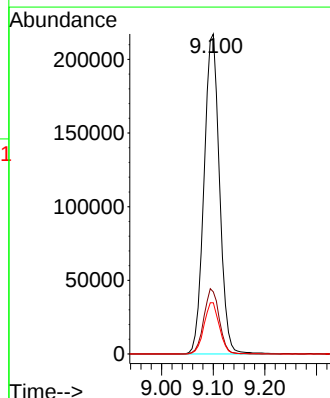
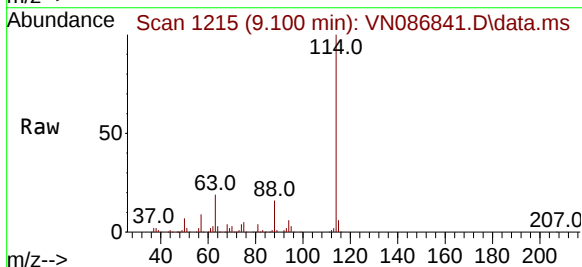
Tgt Ion: 114 Resp: 451025

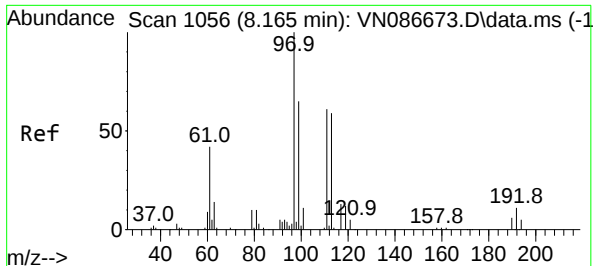
Ion Ratio Lower Upper

114 100

63 19.4 0.0 40.2

88 16.0 0.0 31.2

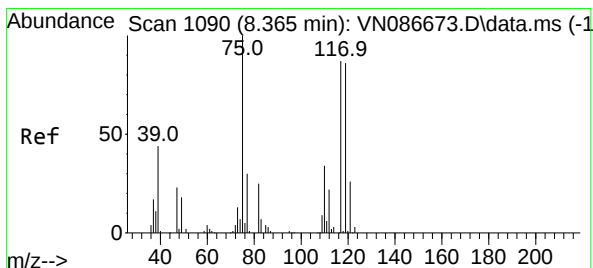
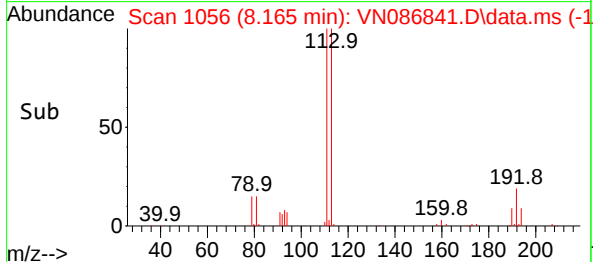
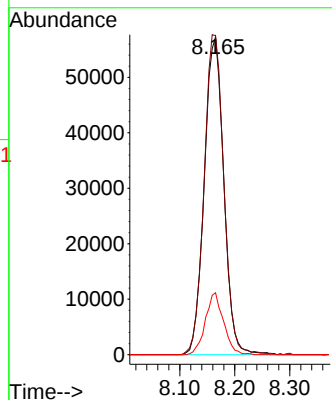
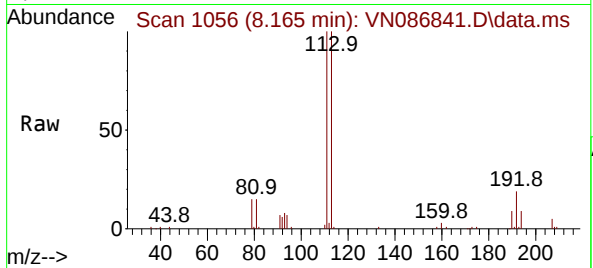




#35
Dibromofluoromethane
Concen: 52.527 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

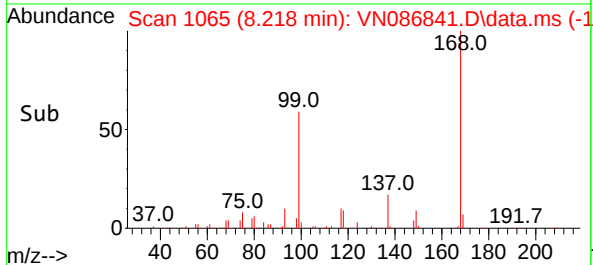
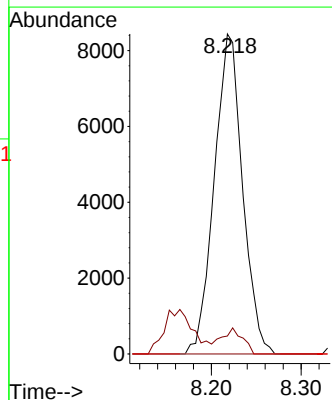
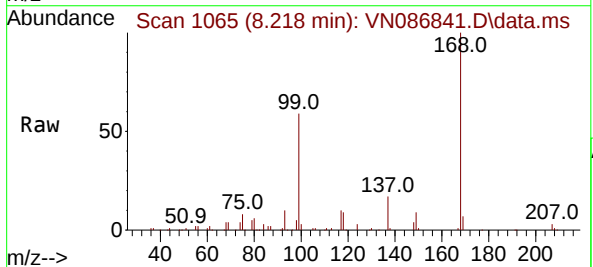
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#02

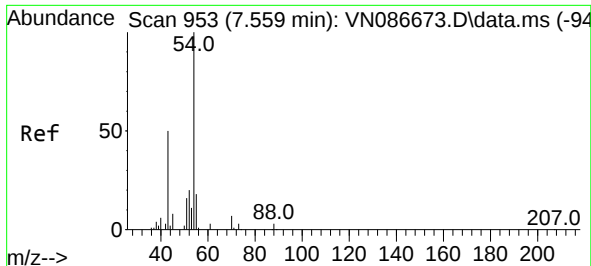
Tgt Ion:113 Resp: 141089
Ion Ratio Lower Upper
113 100
111 101.9 82.2 123.2
192 18.2 13.8 20.8



#36
1,1-Dichloropropene
Concen: 4.655 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

Tgt Ion: 75 Resp: 18442
Ion Ratio Lower Upper
75 100
110 6.1 17.5 52.5#
77 0.0 25.1 37.7#

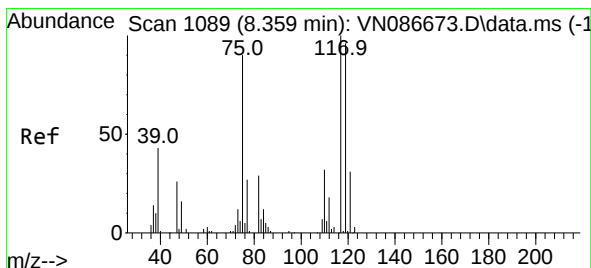
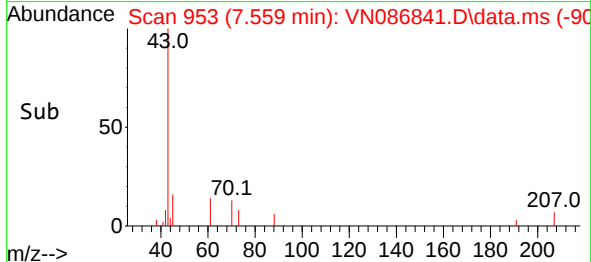
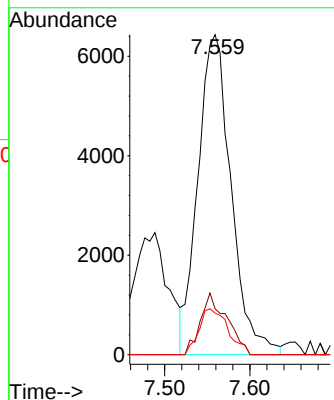
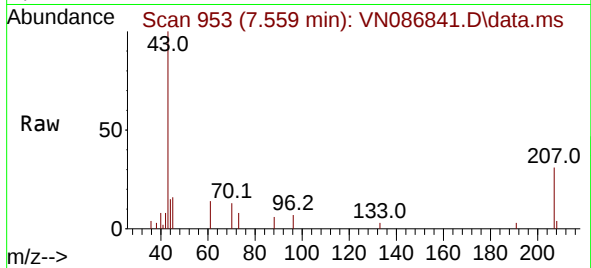




#37
Ethyl Acetate
Concen: 4.345 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

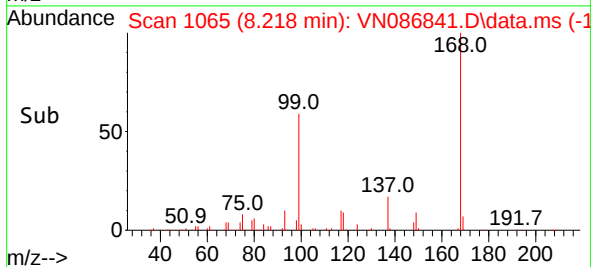
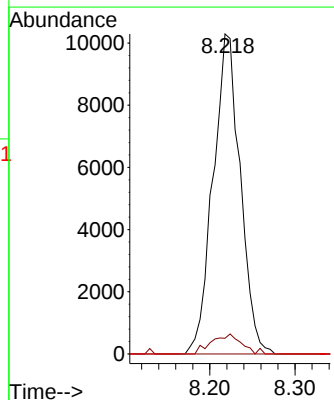
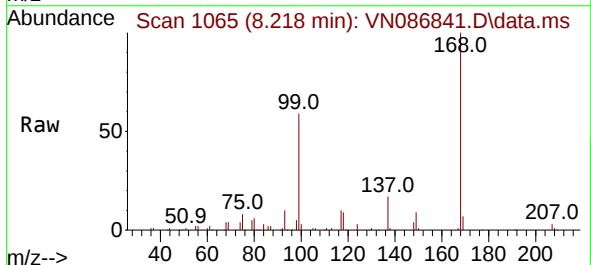
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#02

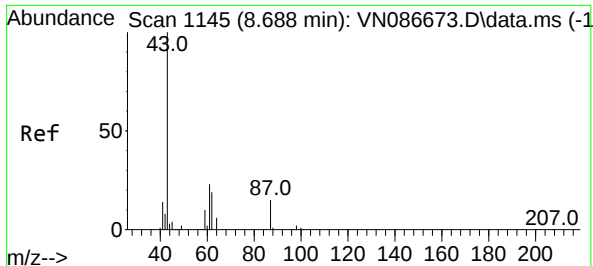
Tgt Ion:	43	Resp:	17388
Ion	Ratio	Lower	Upper
43	100		
61	15.3	11.6	17.4
70	12.6	9.4	14.0



#38
Carbon Tetrachloride
Concen: 5.835 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

Tgt Ion:	117	Resp:	22780
Ion	Ratio	Lower	Upper
117	100		
119	4.9	77.0	115.6#
121	0.0	25.0	37.6#

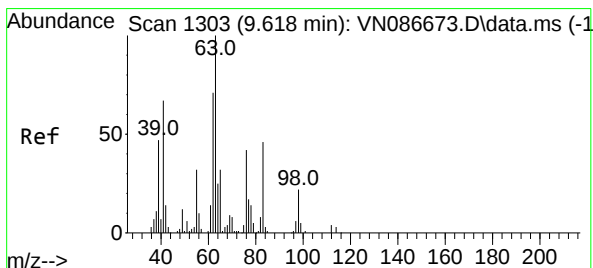
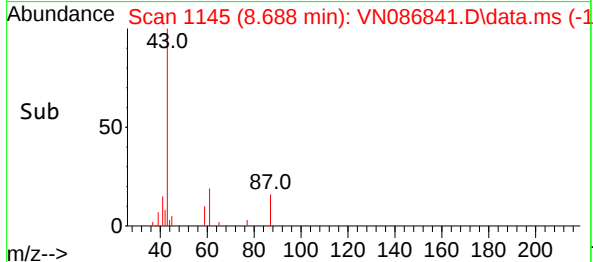
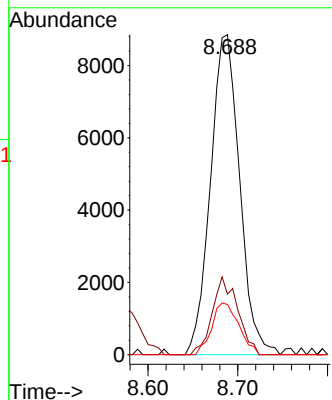
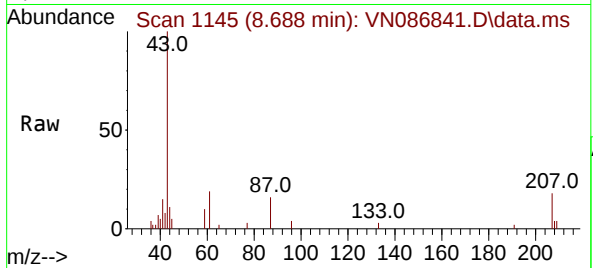




#43
Isopropyl Acetate
Concen: 2.490 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. -0.000 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

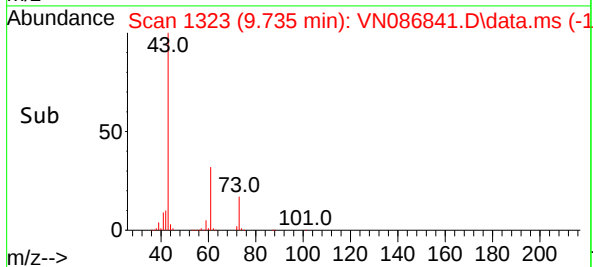
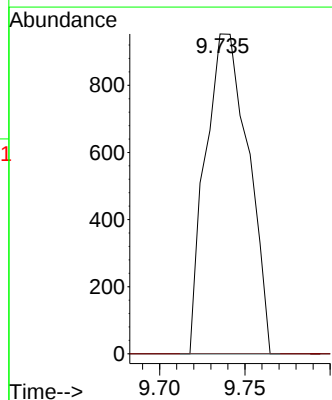
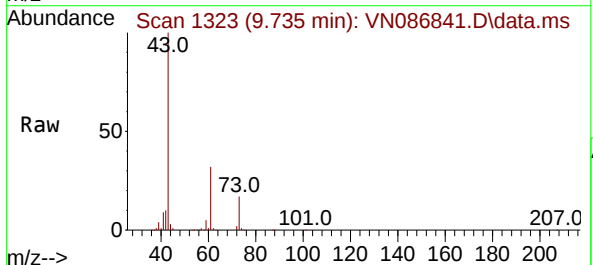
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#02

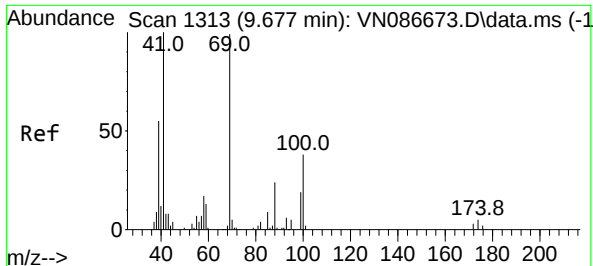
Tgt Ion: 43 Resp: 19980
Ion Ratio Lower Upper
43 100
61 21.3 21.4 32.2#
87 15.0 11.1 16.7



#45
1,2-Dichloropropane
Concen: 0.542 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.118 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

Tgt Ion: 63 Resp: 1664
Ion Ratio Lower Upper
63 100
65 0.0 25.8 38.6#

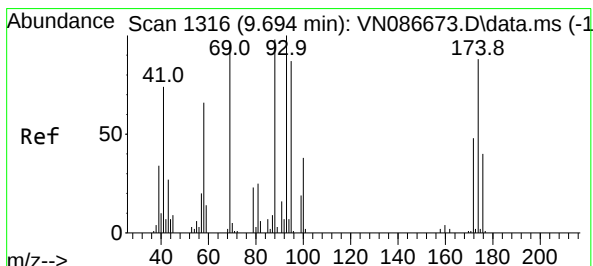
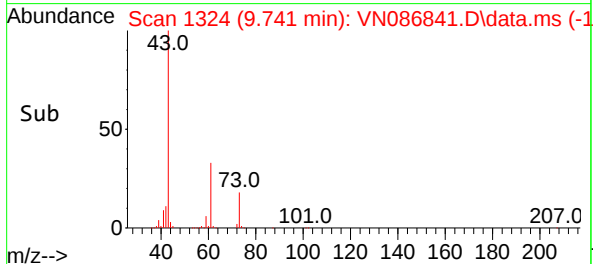
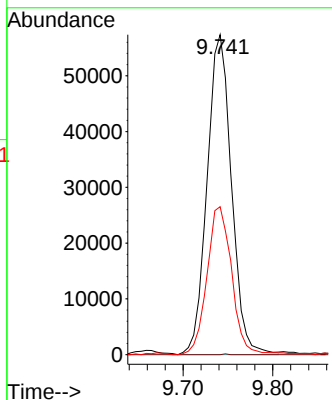
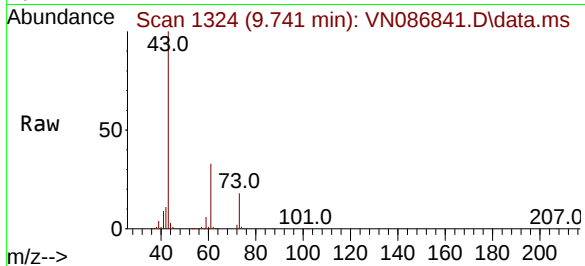




#48
Methyl methacrylate
Concen: 34.821 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

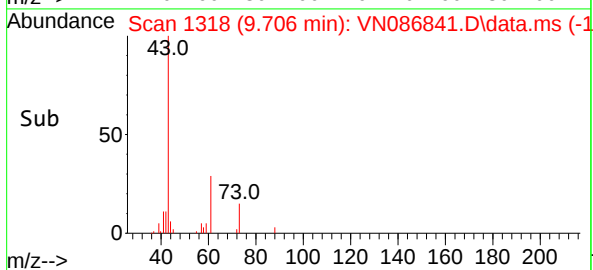
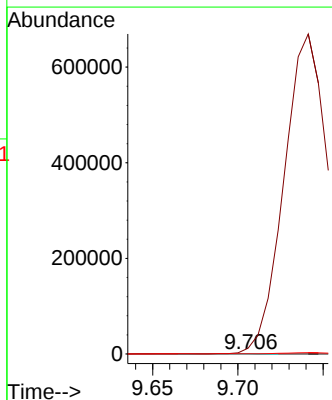
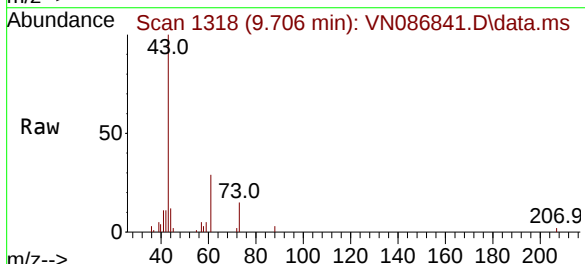
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#02

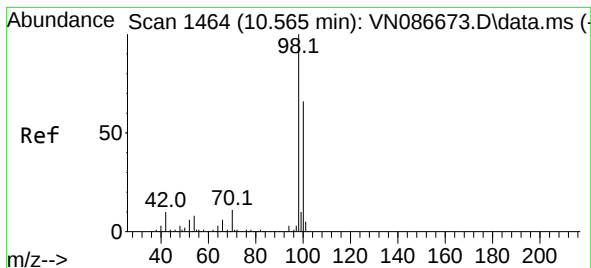
Tgt Ion: 41 Resp: 108260
Ion Ratio Lower Upper
41 100
69 0.0 74.1 111.1#
39 47.2 44.1 66.1



#49
1,4-Dioxane
Concen: 9.099 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.012 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

Tgt Ion: 88 Resp: 599
Ion Ratio Lower Upper
88 100
43 0.0 23.6 35.4#
58 0.0 55.3 82.9#





#50

Toluene-d8

Concen: 50.956 ug/l

RT: 10.565 min Scan# 1464

Delta R.T. -0.000 min

Lab File: VN086841.D

Acq: 03 Jun 2025 14:33

Instrument :

MSVOA_N

ClientSampleId :

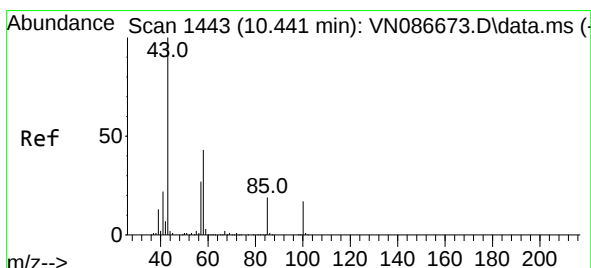
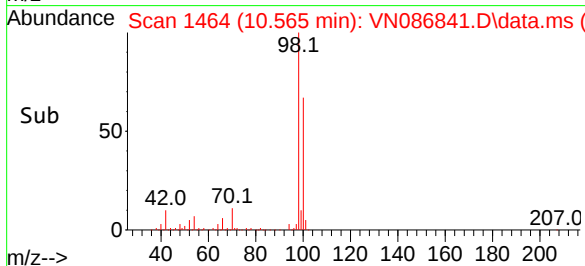
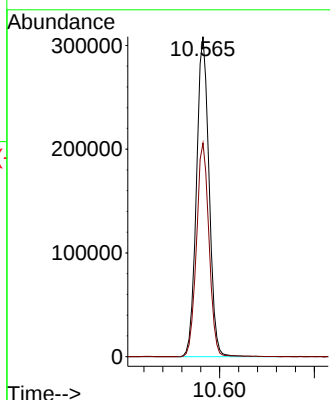
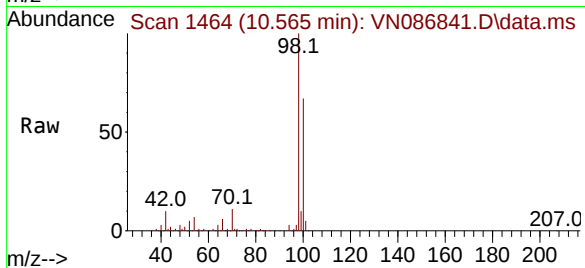
PB168225ZHE#02

Tgt Ion: 98 Resp: 567201

Ion Ratio Lower Upper

98 100

100 66.5 52.9 79.3



#51

4-Methyl-2-Pentanone

Concen: 1.573 ug/l

RT: 10.477 min Scan# 1449

Delta R.T. 0.035 min

Lab File: VN086841.D

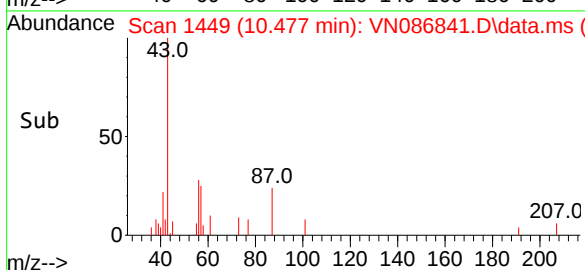
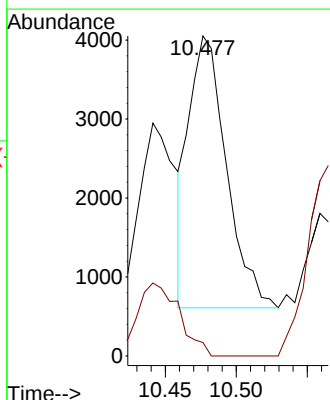
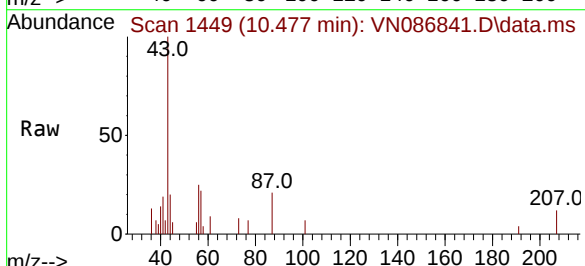
Acq: 03 Jun 2025 14:33

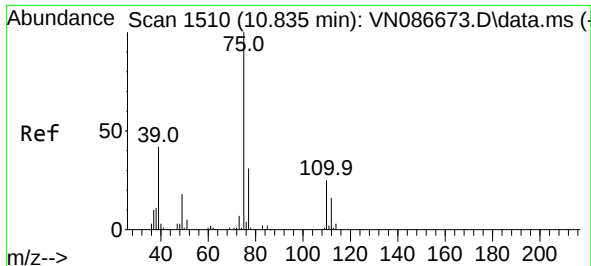
Tgt Ion: 43 Resp: 6366

Ion Ratio Lower Upper

43 100

58 0.0 33.9 50.9#

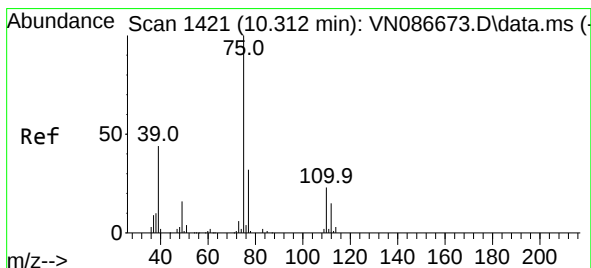
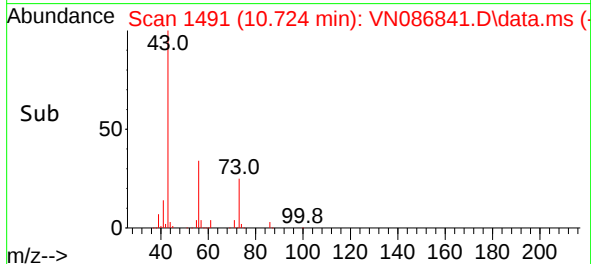
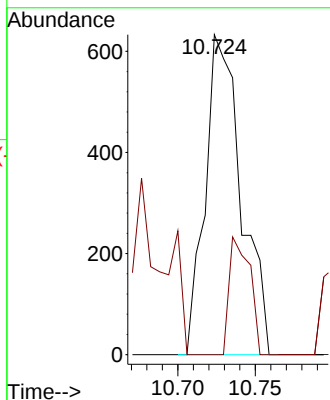
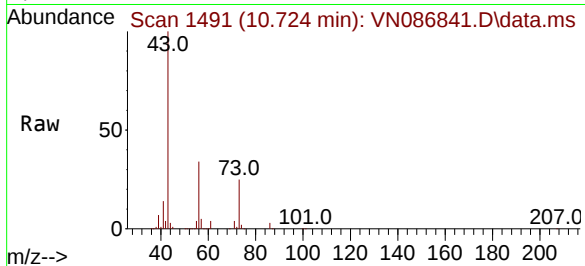




#53
 t-1,3-Dichloropropene
 Concen: 0.227 ug/l
 RT: 10.724 min Scan# 1491
 Delta R.T. -0.112 min
 Lab File: VN086841.D
 Acq: 03 Jun 2025 14:33

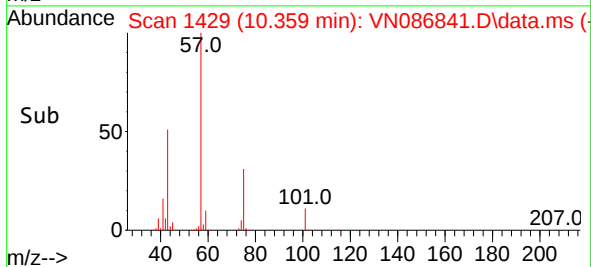
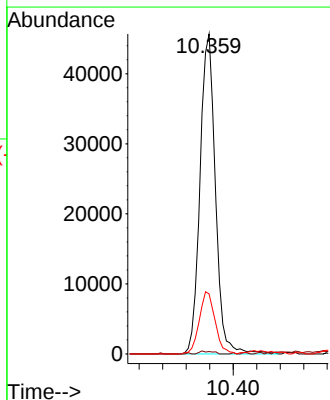
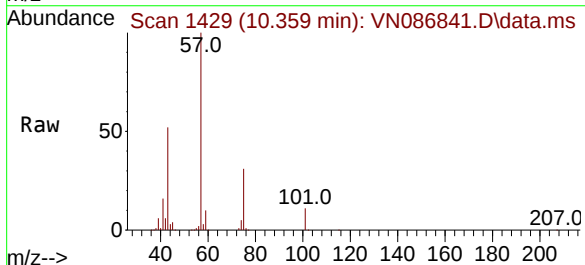
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#02

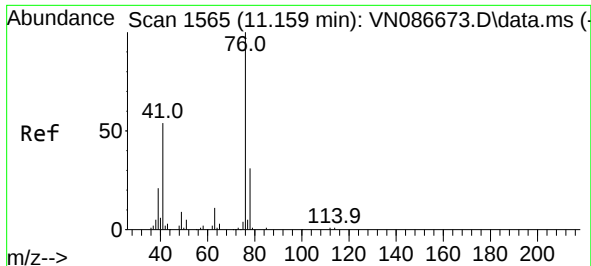
Tgt Ion: 75 Resp: 1024
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#



#54
 cis-1,3-Dichloropropene
 Concen: 16.846 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN086841.D
 Acq: 03 Jun 2025 14:33

Tgt Ion: 75 Resp: 83111
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.3 37.9#
 39 18.8 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 1.030 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.041 min

Lab File: VN086841.D

Acq: 03 Jun 2025 14:33

Instrument :

MSVOA_N

ClientSampleId :

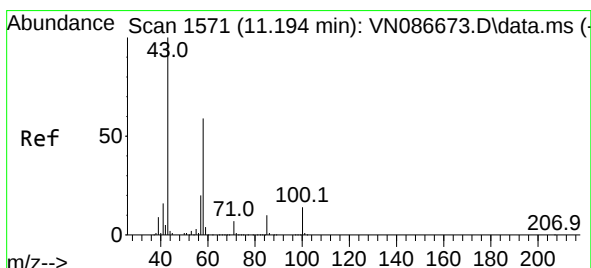
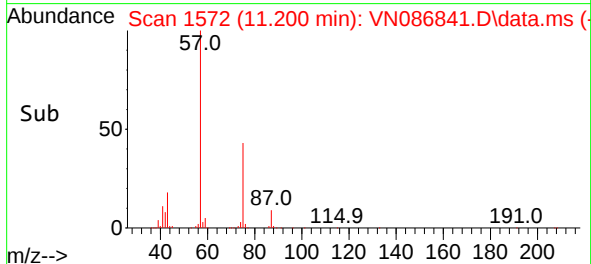
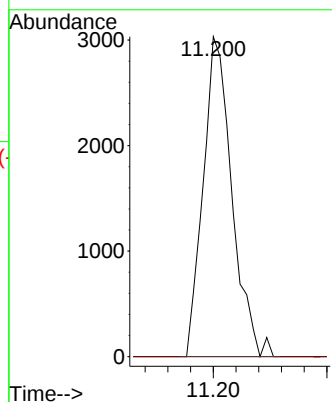
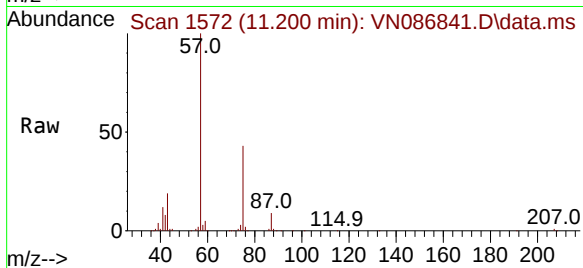
PB168225ZHE#02

Tgt Ion: 76 Resp: 5318

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 28.867 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.012 min

Lab File: VN086841.D

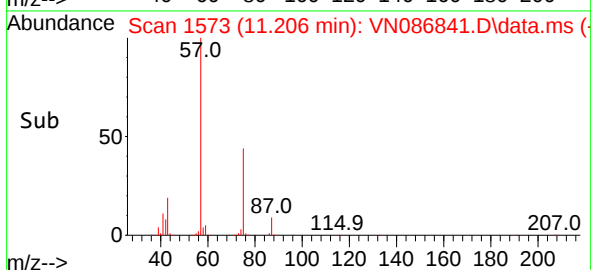
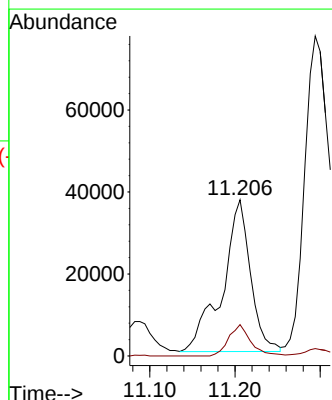
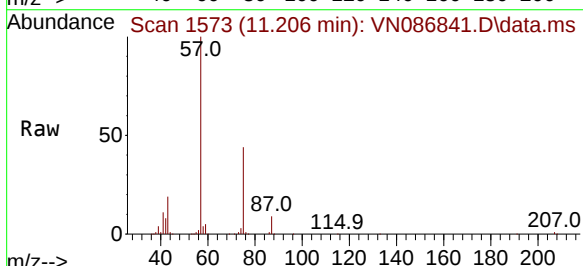
Acq: 03 Jun 2025 14:33

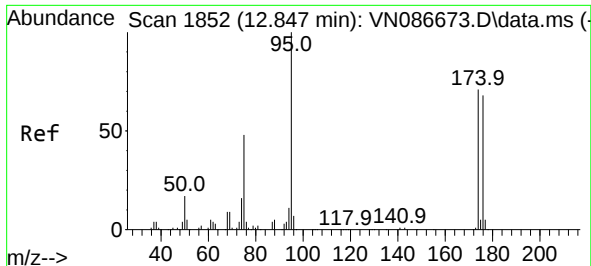
Tgt Ion: 43 Resp: 85291

Ion Ratio Lower Upper

43 100

58 16.2 29.8 89.5#

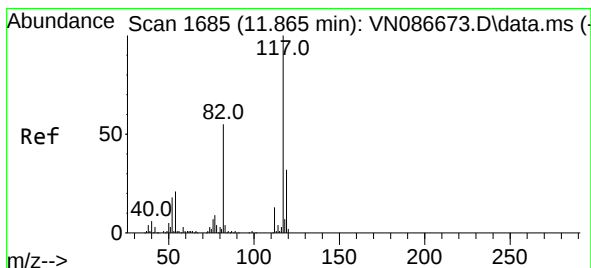
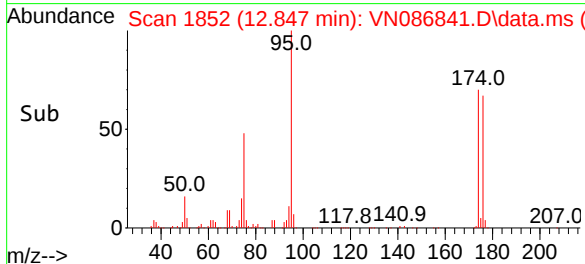
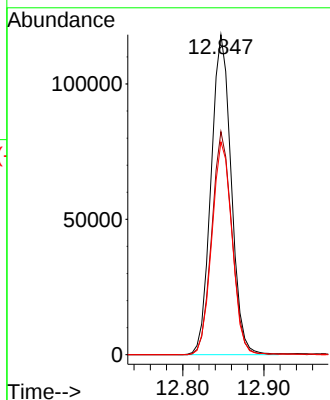
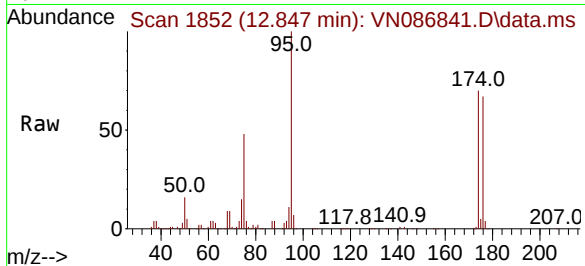




#62
4-Bromofluorobenzene
Concen: 51.923 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

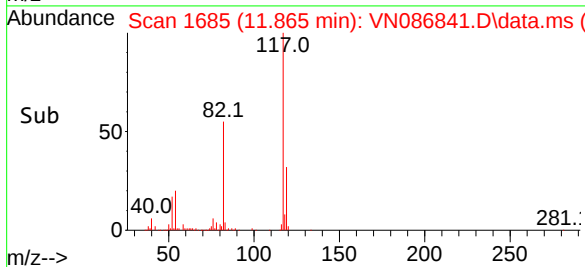
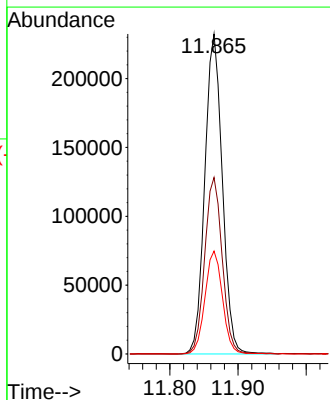
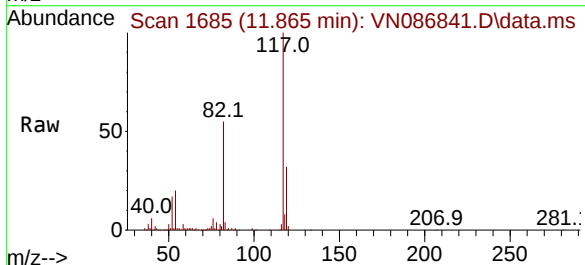
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#02

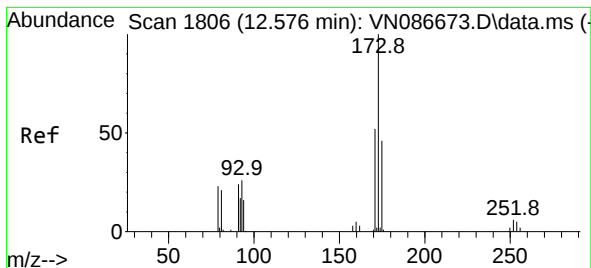
Tgt Ion: 95 Resp: 204074
Ion Ratio Lower Upper
95 100
174 69.6 0.0 145.4
176 66.8 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

Tgt Ion: 117 Resp: 415239
Ion Ratio Lower Upper
117 100
82 55.1 44.2 66.2
119 32.1 25.4 38.2





#71

Bromoform

Concen: 0.396 ug/l

RT: 12.841 min Scan# 1806

Delta R.T. 0.265 min

Lab File: VN086841.D

Acq: 03 Jun 2025 14:33

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#02

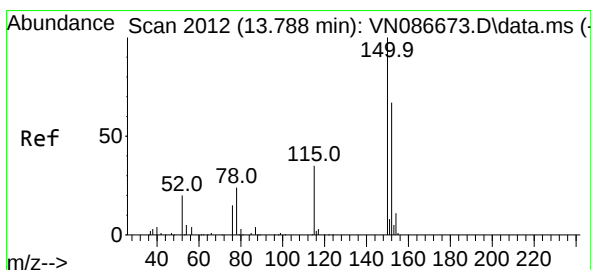
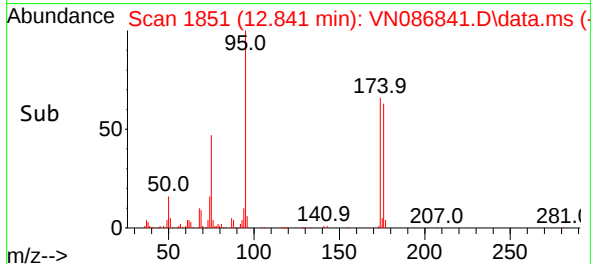
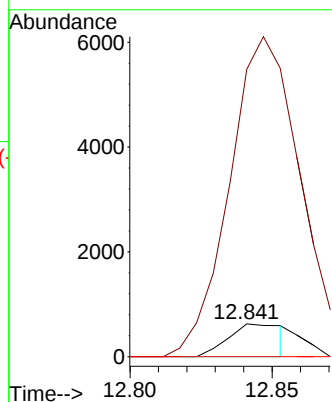
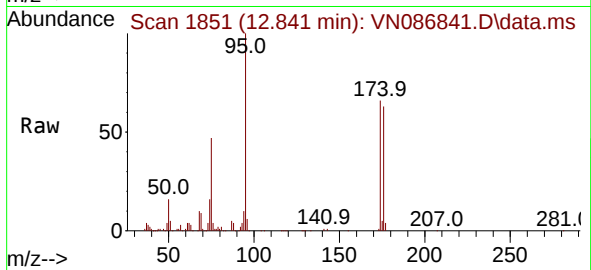
Tgt Ion:173 Resp: 828

Ion Ratio Lower Upper

173 100

175 973.3 23.4 70.2#

254 0.0 0.0 0.0



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.788 min Scan# 2012

Delta R.T. -0.000 min

Lab File: VN086841.D

Acq: 03 Jun 2025 14:33

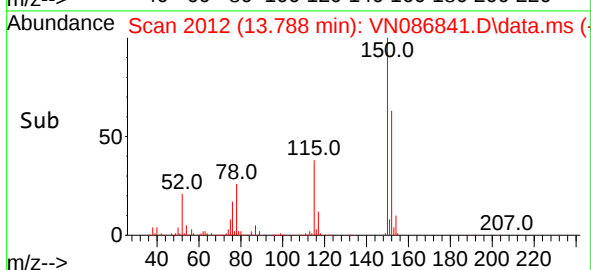
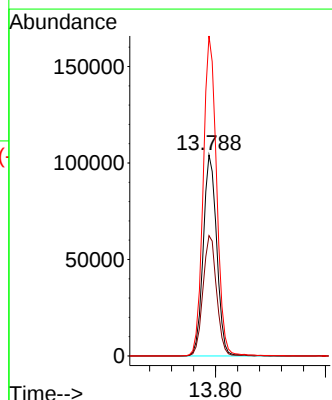
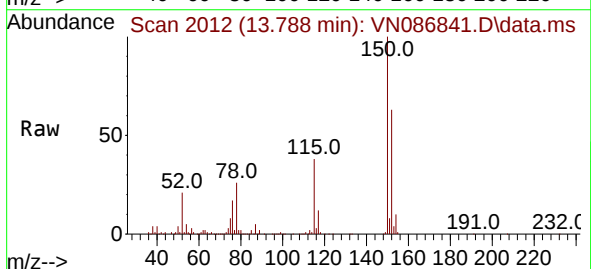
Tgt Ion:152 Resp: 177371

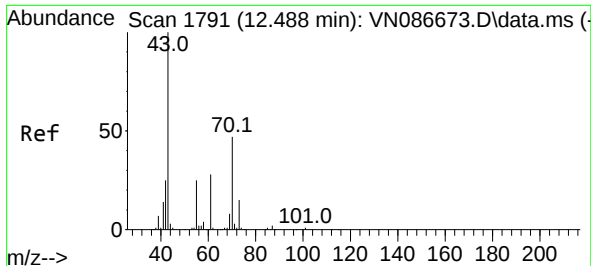
Ion Ratio Lower Upper

152 100

115 60.5 30.0 90.1

150 158.9 0.0 347.8

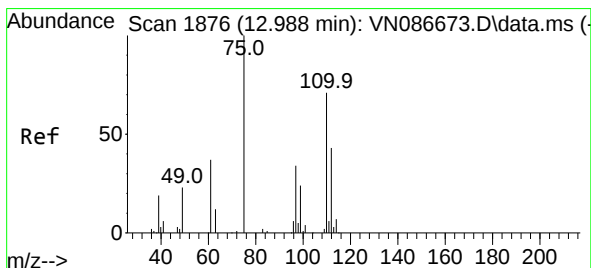
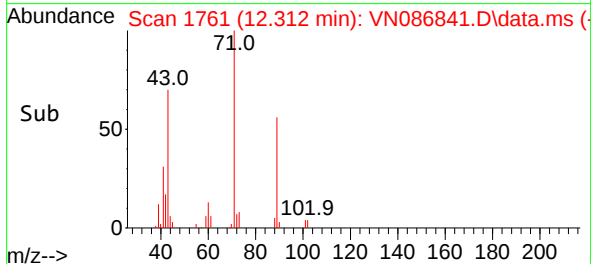
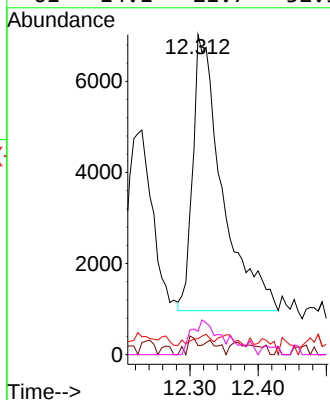
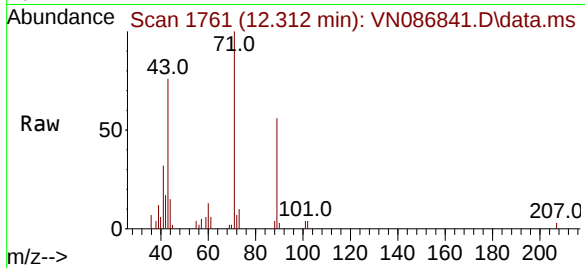




#74
N-amy1 acetate
Concen: 3.166 ug/l
RT: 12.312 min Scan# 11
Delta R.T. -0.177 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

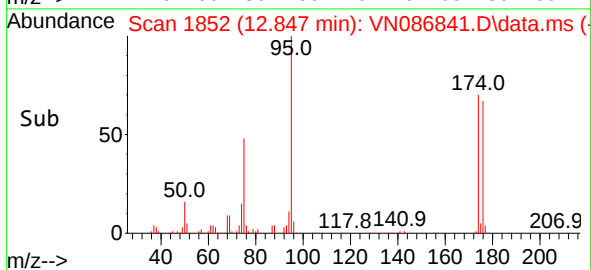
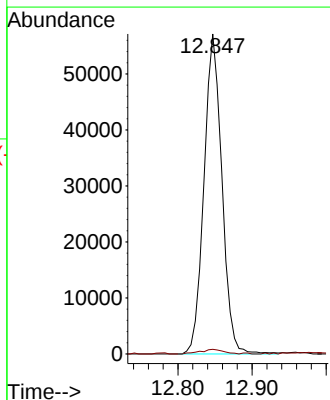
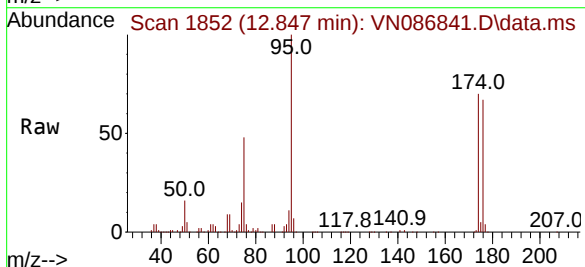
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#02

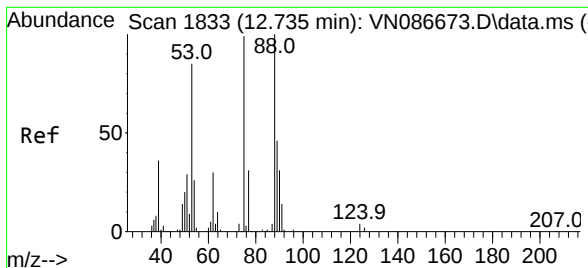
Tgt Ion: 43	Resp: 18122
Ion Ratio	Lower Upper
43 100	
70 2.3	37.9 56.9#
55 2.4	20.5 30.7#
61 14.1	21.7 32.5#



#76
1,2,3-Trichloropropane
Concen: 23.942 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

Tgt Ion: 75	Resp: 96042
Ion Ratio	Lower Upper
75 100	
77 1.9	96.0 288.1#

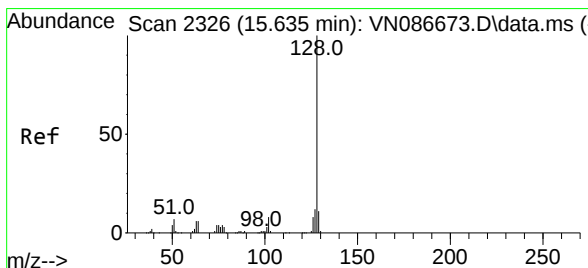
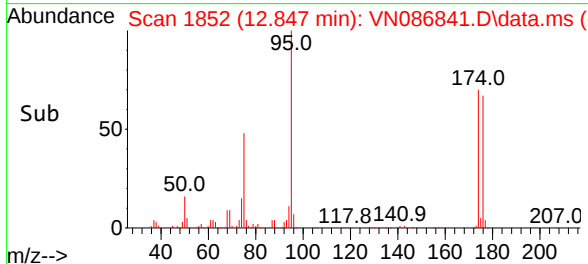
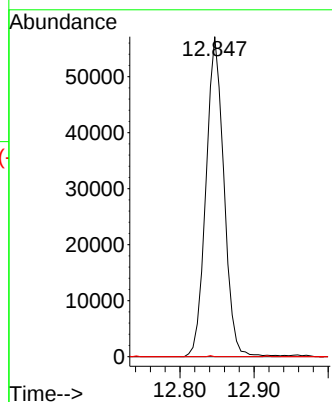
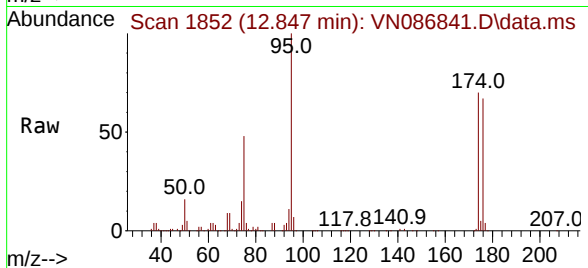




#81
trans-1,4-Dichloro-2-butene
Concen: 60.422 ug/l
RT: 12.847 min Scan# 11
Delta R.T. 0.112 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#02

Tgt Ion: 75 Resp: 96042
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.1 32.4 48.6#



#95
Naphthalene
Concen: 0.257 ug/l
RT: 15.641 min Scan# 2327
Delta R.T. 0.006 min
Lab File: VN086841.D
Acq: 03 Jun 2025 14:33

Tgt Ion:128 Resp: 2134
Ion Ratio Lower Upper
128 100
127 12.2 10.1 15.1
129 8.3 8.6 13.0#

