

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086840.D
 Acq On : 03 Jun 2025 14:08
 Operator : JC\MD
 Sample : PB168225ZHE#01
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#01

Quant Time: Jun 04 01:59:05 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)

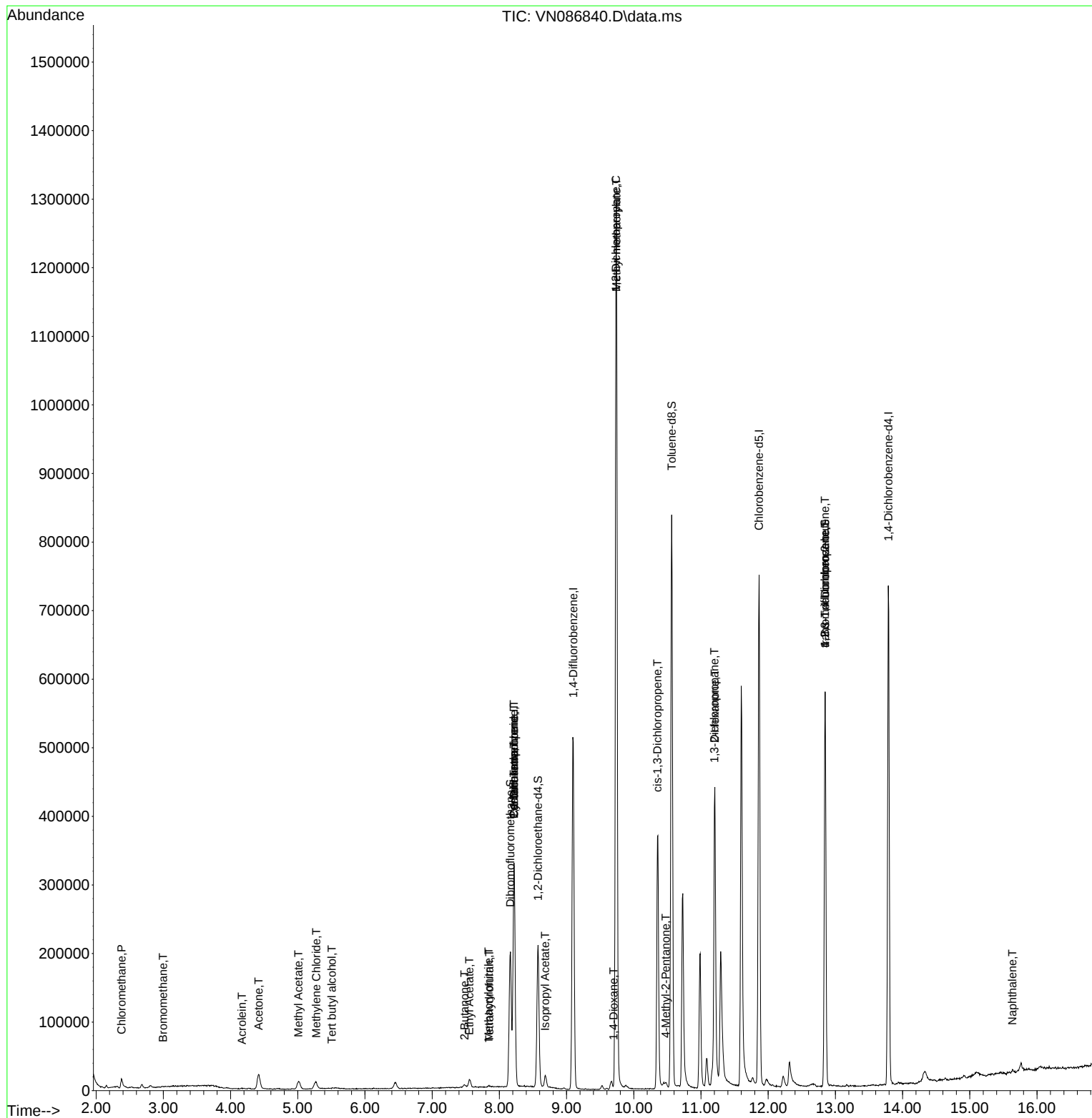
Internal Standards						
1) Pentafluorobenzene	8.218	168	246675	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	481598	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	453112	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	207697	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	167446	49.125	ug/l	0.00
Spiked Amount	50.000	Range 74 - 125	Recovery	=	98.240%	
35) Dibromofluoromethane	8.165	113	149136	51.998	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	104.000%	
50) Toluene-d8	10.565	98	610799	51.390	ug/l	0.00
Spiked Amount	50.000	Range 86 - 113	Recovery	=	102.780%	
62) 4-Bromofluorobenzene	12.847	95	226103	53.876	ug/l	0.00
Spiked Amount	50.000	Range 77 - 121	Recovery	=	107.760%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.377	50	22648	5.621	ug/l	99
5) Bromomethane	2.995	94	633	0.303	ug/l	97
11) Tert butyl alcohol	5.506	59	237	0.382	ug/l #	73
13) Acrolein	4.171	56	1047	1.578	ug/l #	68
16) Acetone	4.418	43	41092	32.228	ug/l	99
18) Methyl Acetate	5.012	43	24442	6.849	ug/l	100
20) Methylene Chloride	5.277	84	8381	2.491	ug/l	93
25) 2-Butanone	7.483	43	6577	3.338	ug/l #	84
29) Tetrahydrofuran	7.853	42	1223	0.951	ug/l #	39
31) Cyclohexane	8.218	56	4918	0.961	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	19384	4.582	ug/l #	49
37) Ethyl Acetate	7.553	43	17569	4.111	ug/l	97
38) Carbon Tetrachloride	8.218	117	24239	5.815	ug/l #	16
41) Methacrylonitrile	7.841	41	749	0.325	ug/l #	24
43) Isopropyl Acetate	8.682	43	20415	2.383	ug/l #	92
45) 1,2-Dichloropropane	9.735	63	1812	0.553	ug/l #	42
48) Methyl methacrylate	9.741	41	110116	33.170	ug/l #	36
49) 1,4-Dioxane	9.700	88	513	7.298	ug/l #	77
51) 4-Methyl-2-Pentanone	10.476	43	10732	2.484	ug/l #	33
54) cis-1,3-Dichloropropene	10.353	75	82824	15.722	ug/l #	55
57) 1,3-Dichloropropane	11.200	76	5785	1.049	ug/l #	42
59) 2-Hexanone	11.206	43	87089	27.604	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	107467	22.879	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	107467	57.738	ug/l #	15
95) Naphthalene	15.635	128	2986	0.307	ug/l #	90

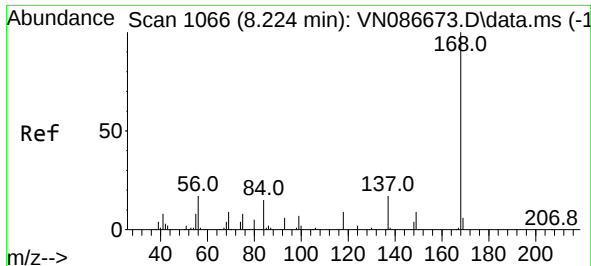
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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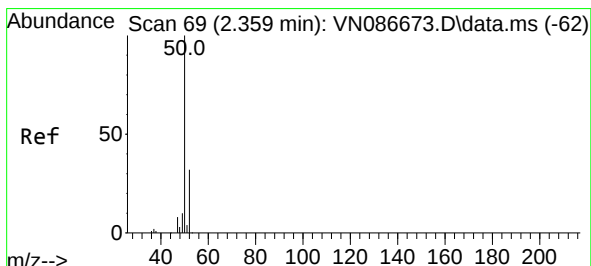
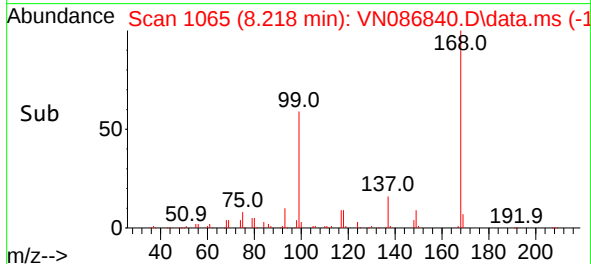
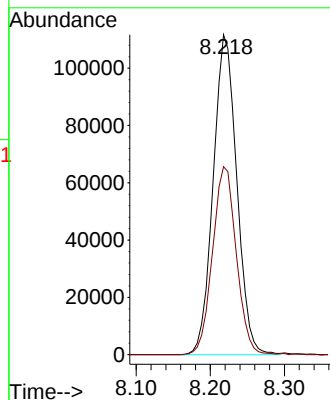
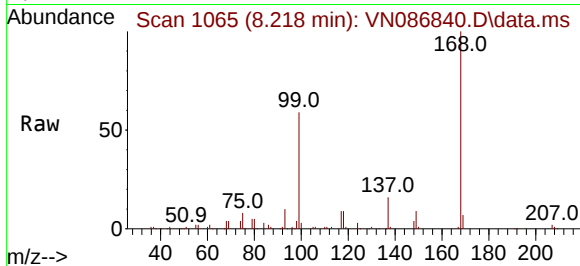




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

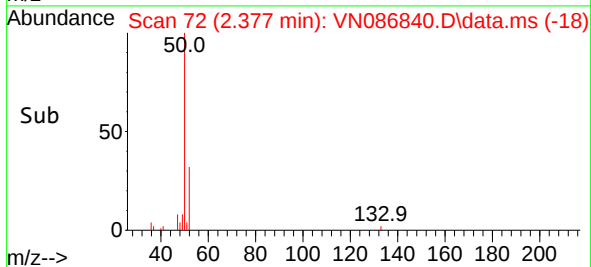
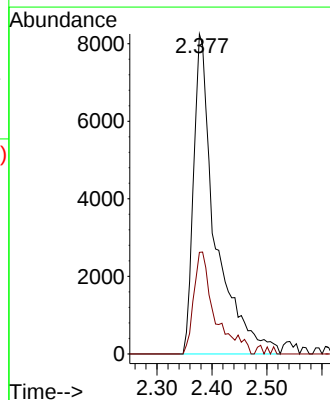
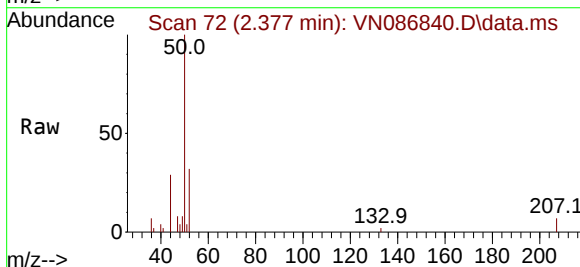
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#01

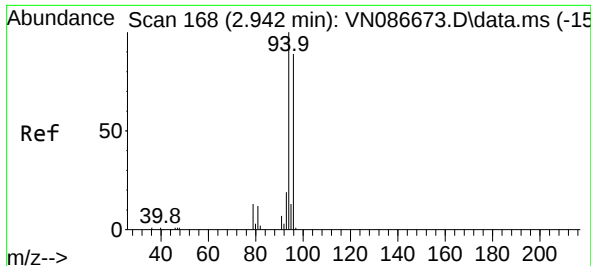
Tgt Ion:168 Resp: 246675
Ion Ratio Lower Upper
168 100
99 58.7 47.0 70.4



#3
Chloromethane
Concen: 5.621 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.018 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

Tgt Ion: 50 Resp: 22648
Ion Ratio Lower Upper
50 100
52 31.8 25.9 38.9

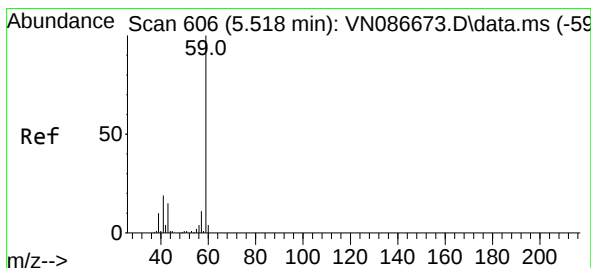
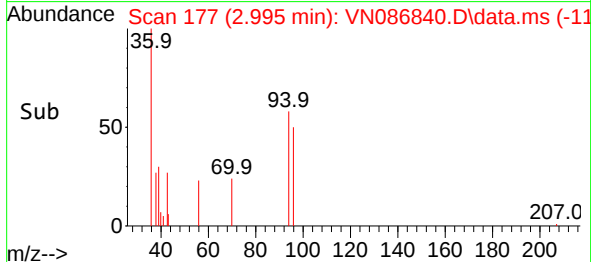
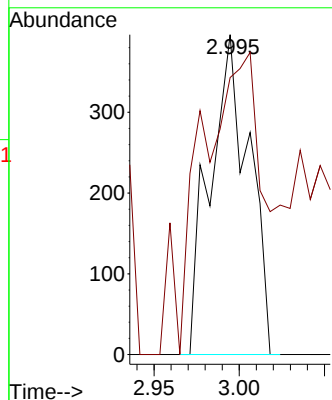
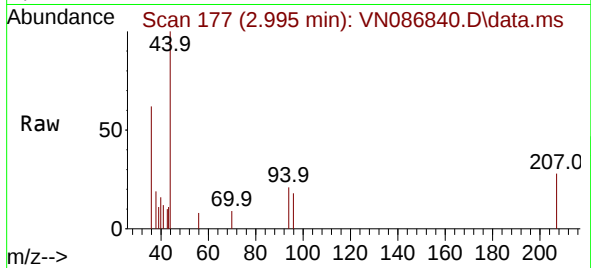




#5
Bromomethane
Concen: 0.303 ug/l
RT: 2.995 min Scan# 11
Delta R.T. 0.053 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

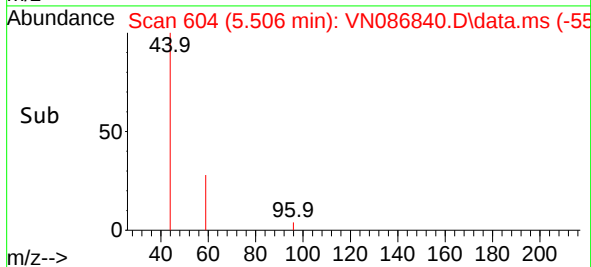
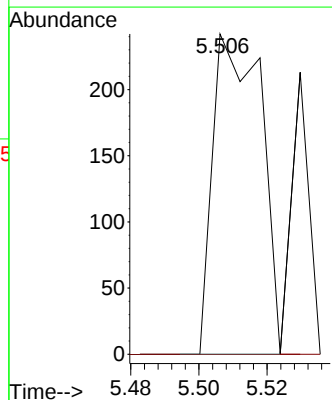
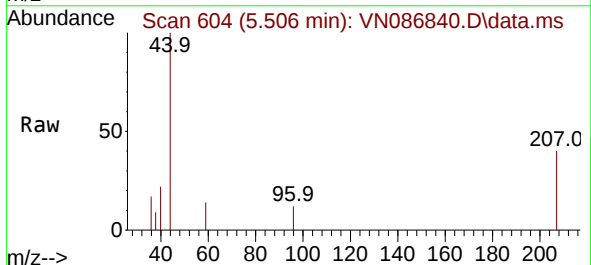
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#01

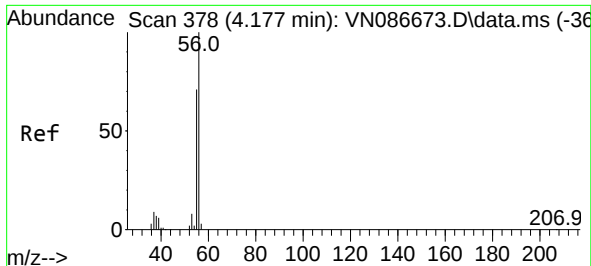
Tgt Ion: 94 Resp: 633
Ion Ratio Lower Upper
94 100
96 86.6 71.2 106.8



#11
Tert butyl alcohol
Concen: 0.382 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.012 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

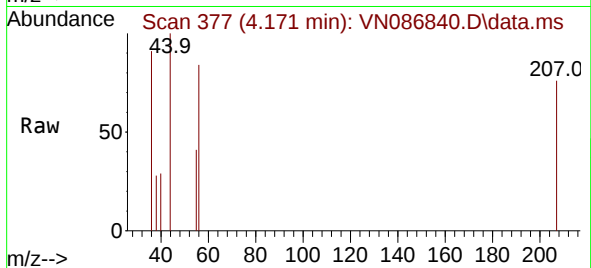
Tgt Ion: 59 Resp: 237
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



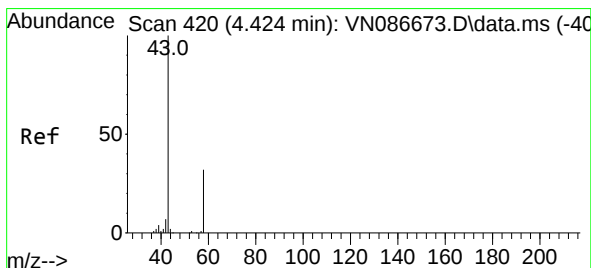
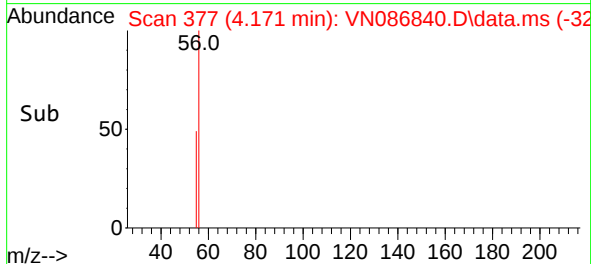
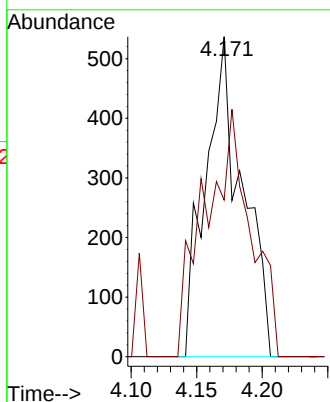


#13
Acrolein
Concen: 1.578 ug/l
RT: 4.171 min Scan# 31
Delta R.T. -0.006 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#01

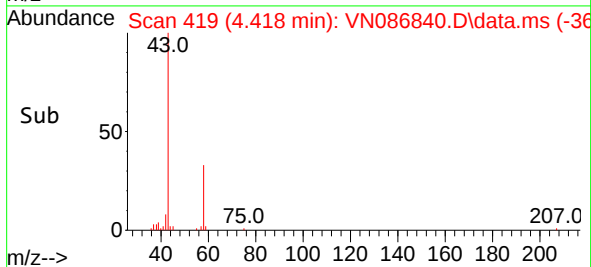
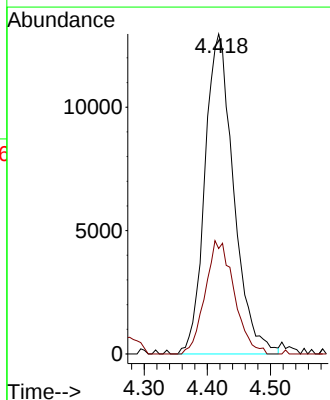
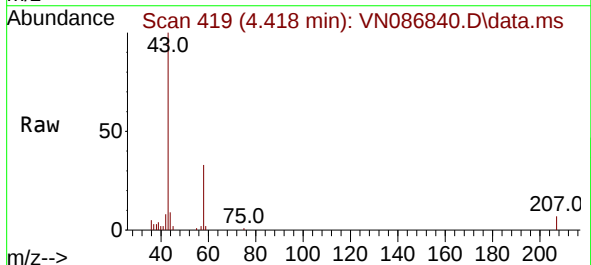


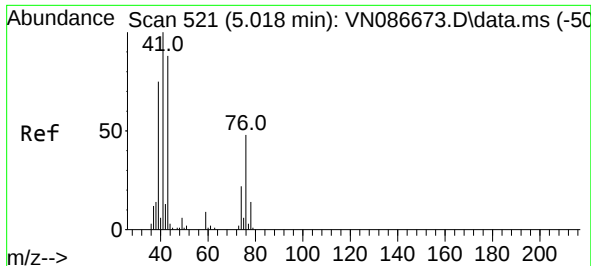
Tgt Ion: 56 Resp: 1047
Ion Ratio Lower Upper
56 100
55 96.0 55.7 83.5#



#16
Acetone
Concen: 32.228 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

Tgt Ion: 43 Resp: 41092
Ion Ratio Lower Upper
43 100
58 33.0 25.8 38.6

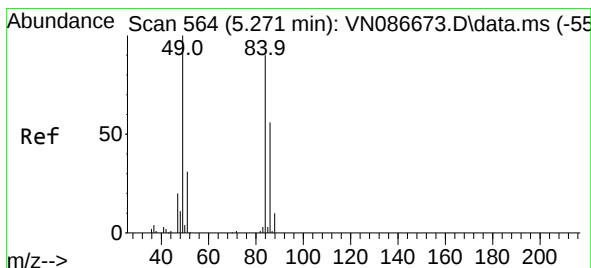
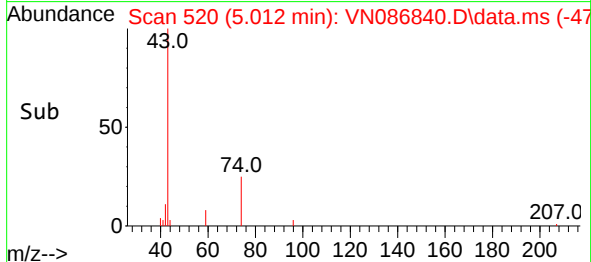
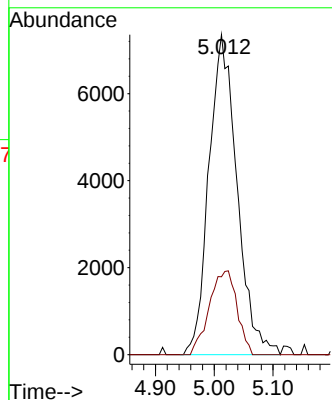
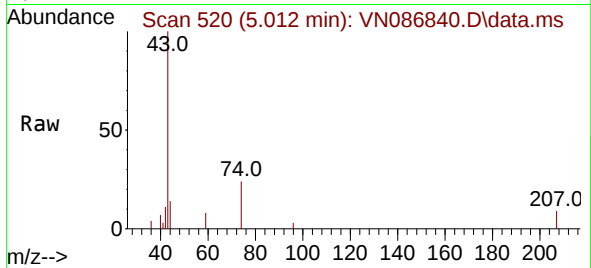




#18
Methyl Acetate
Concen: 6.849 ug/l
RT: 5.012 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

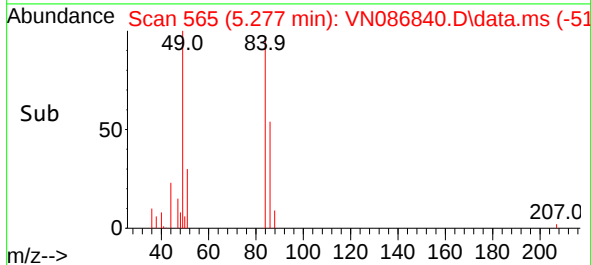
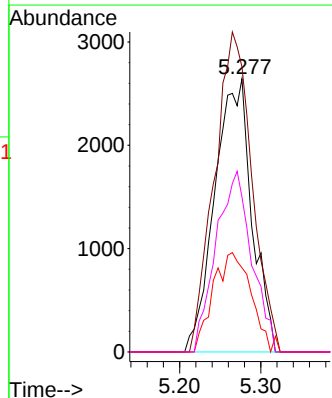
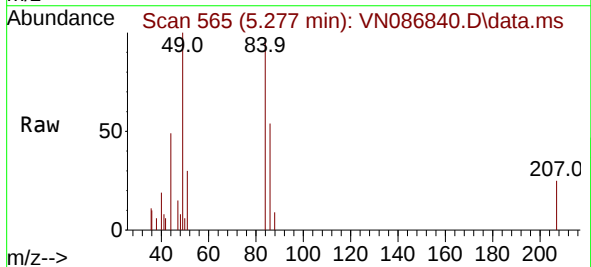
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#01

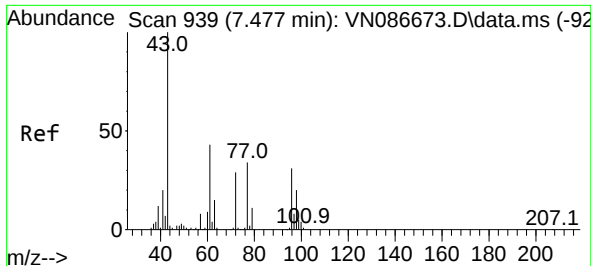
Tgt Ion: 43 Resp: 24442
Ion Ratio Lower Upper
43 100
74 25.7 20.5 30.7



#20
Methylene Chloride
Concen: 2.491 ug/l
RT: 5.277 min Scan# 565
Delta R.T. 0.006 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

Tgt Ion: 84 Resp: 8381
Ion Ratio Lower Upper
84 100
49 104.3 88.8 133.2
51 30.8 27.8 41.6
86 56.7 49.8 74.6

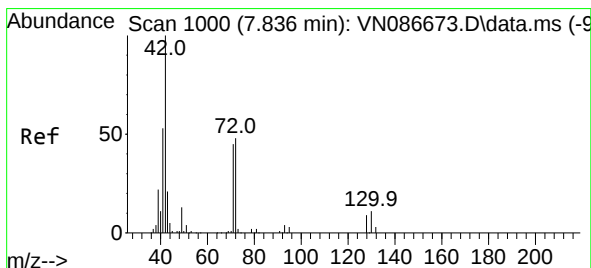
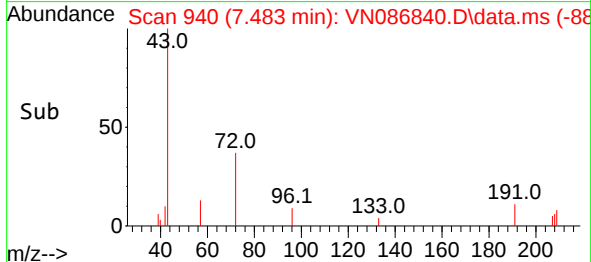
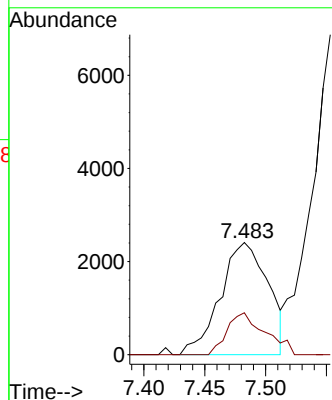
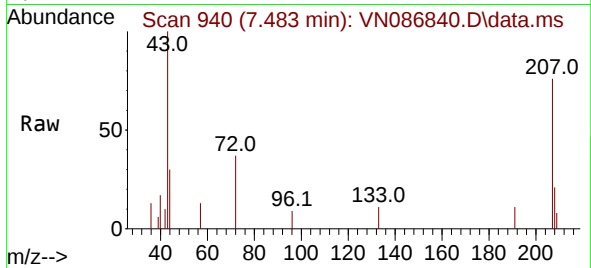




#25
2-Butanone
Concen: 3.338 ug/l
RT: 7.483 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

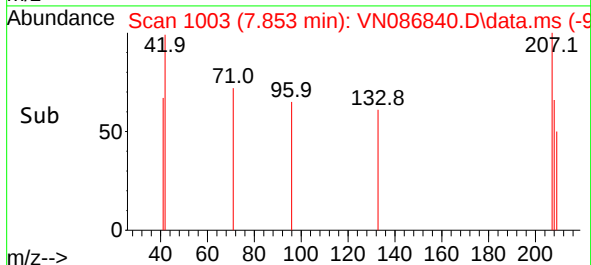
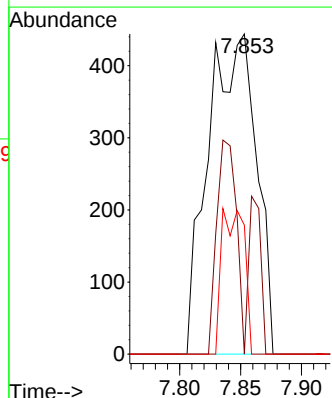
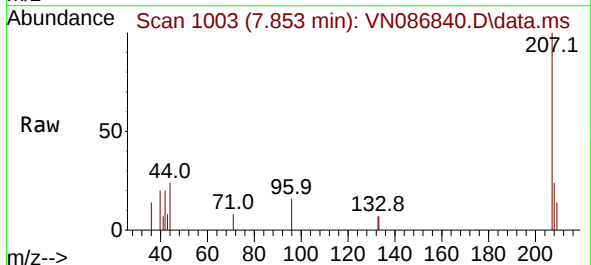
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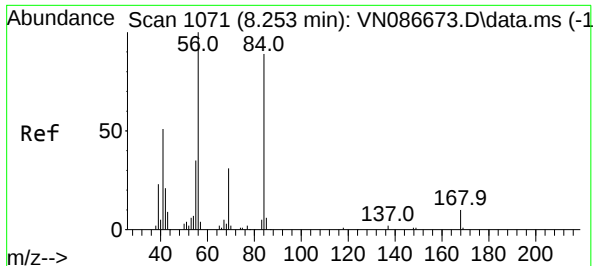
Tgt Ion: 43 Resp: 6577
Ion Ratio Lower Upper
43 100
72 37.4 23.1 34.7#



#29
Tetrahydrofuran
Concen: 0.951 ug/l
RT: 7.853 min Scan# 1003
Delta R.T. 0.018 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

Tgt Ion: 42 Resp: 1223
Ion Ratio Lower Upper
42 100
72 12.2 38.7 58.1#
71 0.0 36.2 54.4#





#31

Cyclohexane

Concen: 0.961 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.035 min

Lab File: VN086840.D

Acq: 03 Jun 2025 14:08

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#01

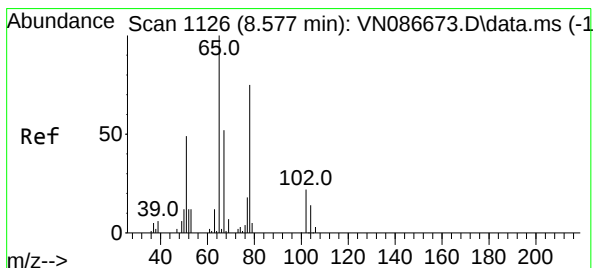
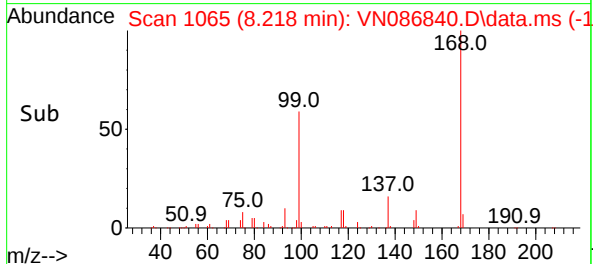
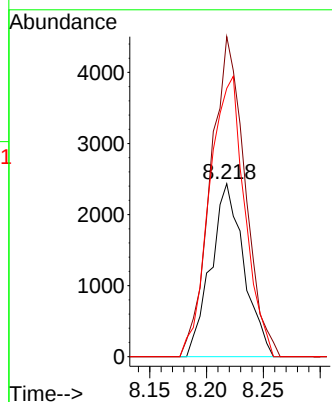
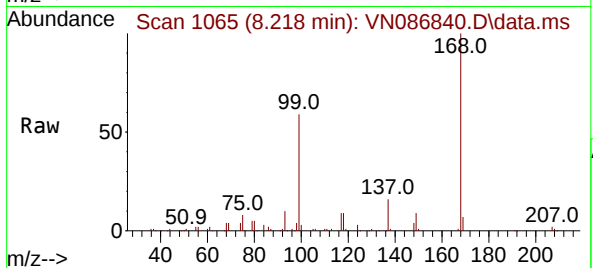
Tgt Ion: 56 Resp: 4918

Ion Ratio Lower Upper

56 100

69 184.9 25.0 37.6#

84 155.0 71.0 106.4#



#33

1,2-Dichloroethane-d4

Concen: 49.125 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086840.D

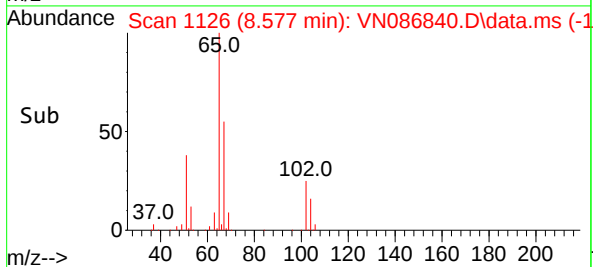
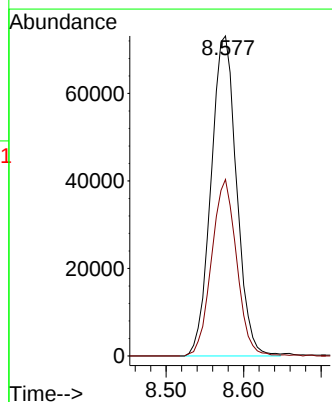
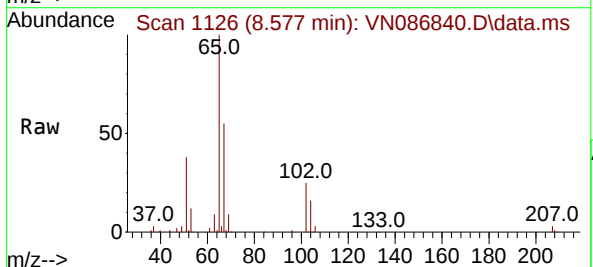
Acq: 03 Jun 2025 14:08

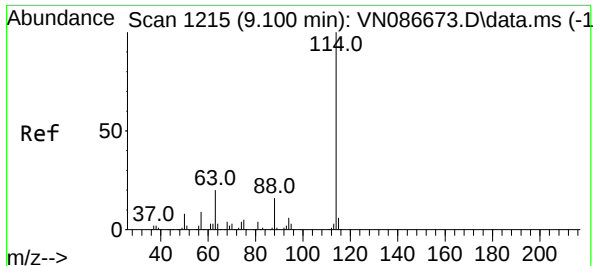
Tgt Ion: 65 Resp: 167446

Ion Ratio Lower Upper

65 100

67 54.1 0.0 106.4

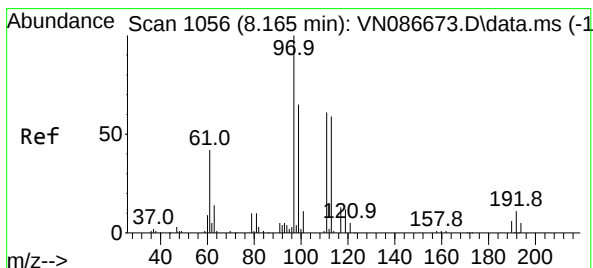
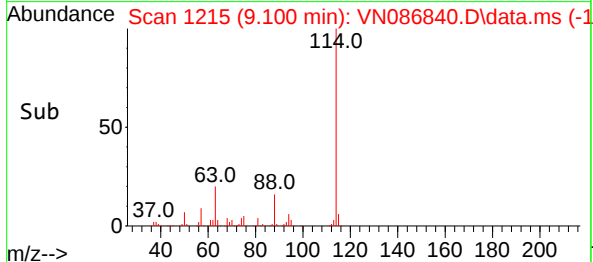
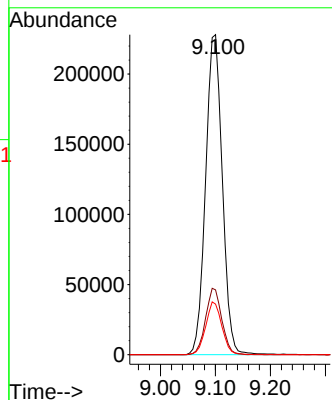
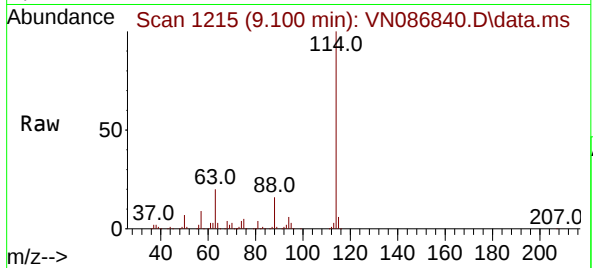




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 9.100 min Scan# 114
Delta R.T. -0.000 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

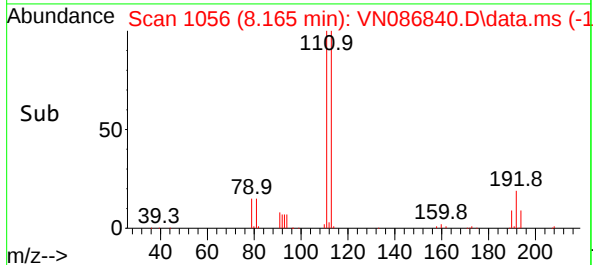
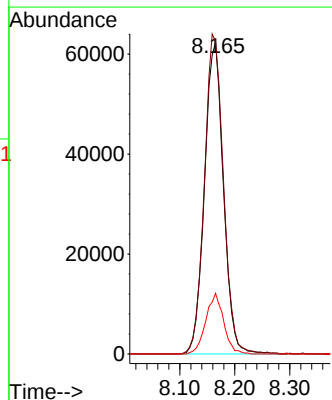
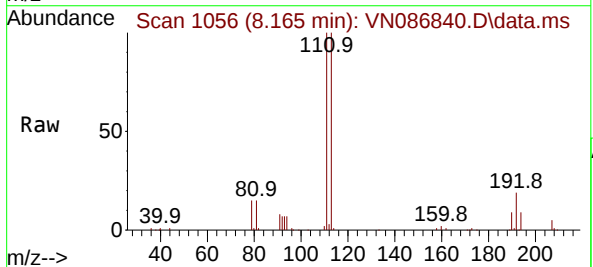
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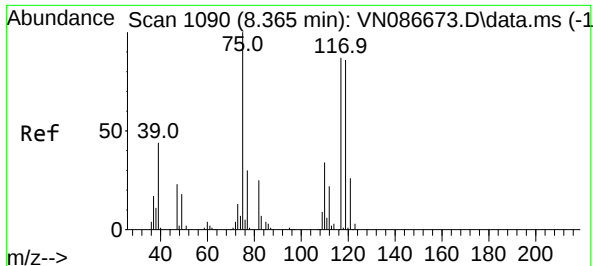
Tgt Ion:114 Resp: 481598
Ion Ratio Lower Upper
114 100
63 20.2 0.0 40.2
88 15.8 0.0 31.2



#35
Dibromofluoromethane
Concen: 51.998 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

Tgt Ion:113 Resp: 149136
Ion Ratio Lower Upper
113 100
111 103.6 82.2 123.2
192 18.3 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.582 ug/l

RT: 8.218 min Scan# 1

Delta R.T. -0.147 min

Lab File: VN086840.D

Acq: 03 Jun 2025 14:08

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#01

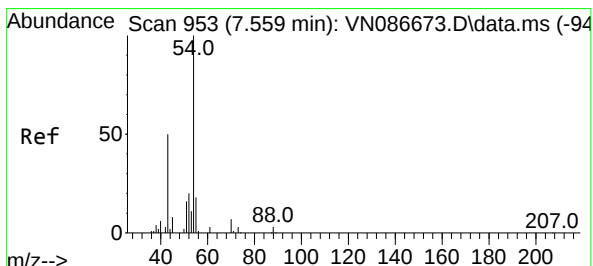
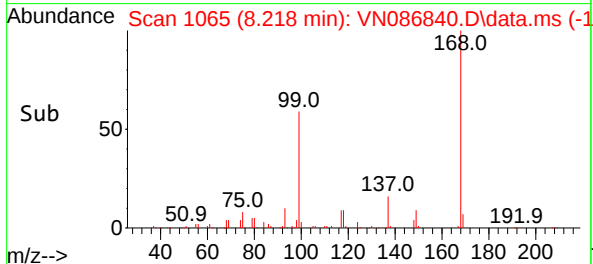
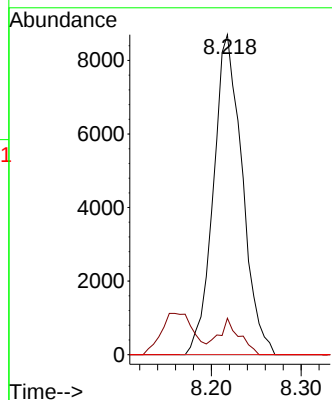
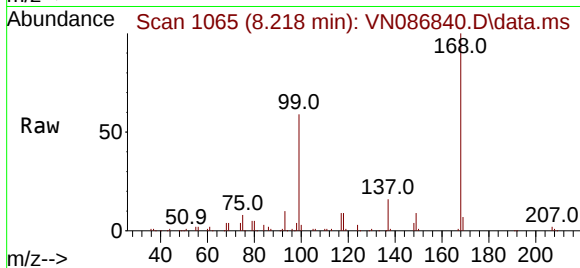
Tgt Ion: 75 Resp: 19384

Ion Ratio Lower Upper

75 100

110 8.3 17.5 52.5#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 4.111 ug/l

RT: 7.553 min Scan# 952

Delta R.T. -0.006 min

Lab File: VN086840.D

Acq: 03 Jun 2025 14:08

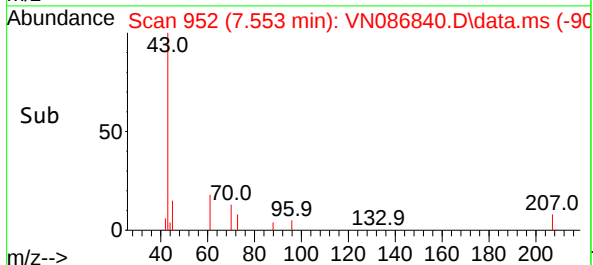
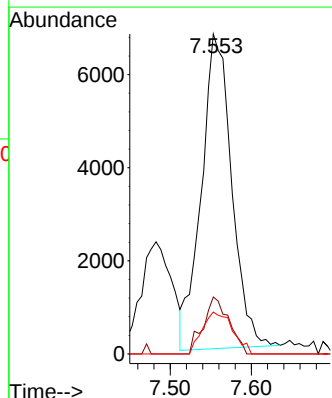
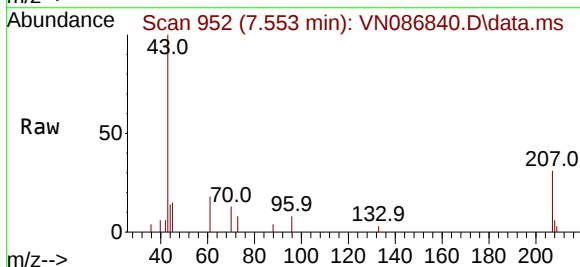
Tgt Ion: 43 Resp: 17569

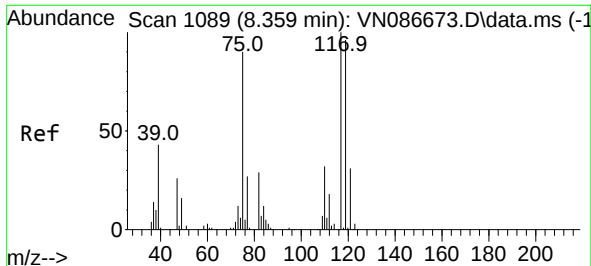
Ion Ratio Lower Upper

43 100

61 15.3 11.6 17.4

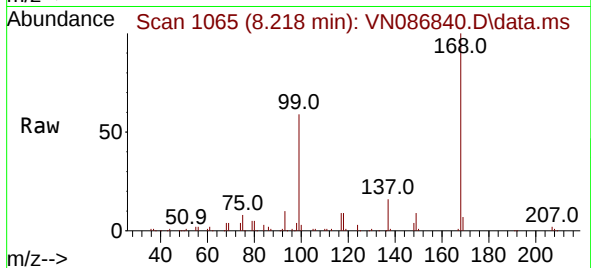
70 13.3 9.4 14.0



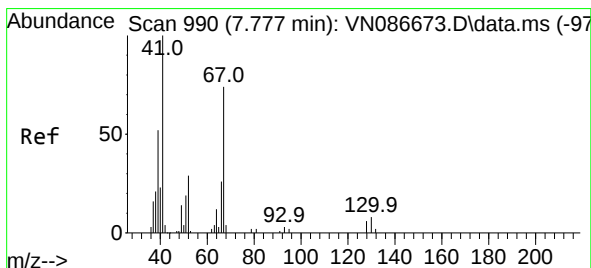
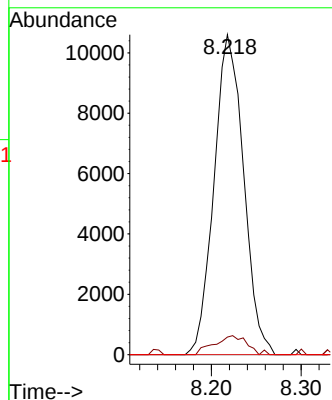
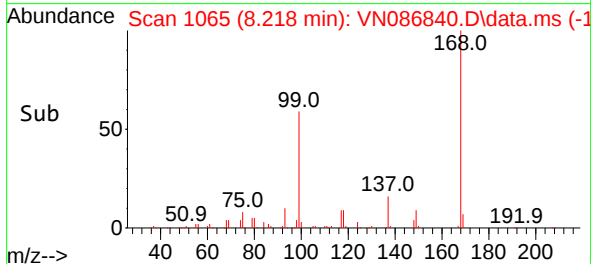


#38
Carbon Tetrachloride
Concen: 5.815 ug/l
RT: 8.218 min Scan# 1001
Delta R.T. -0.141 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#01

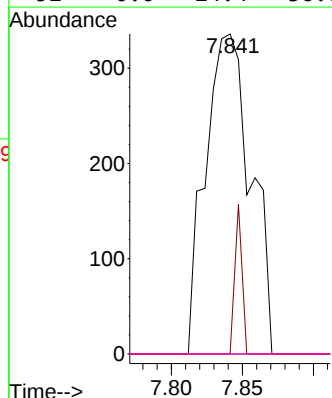
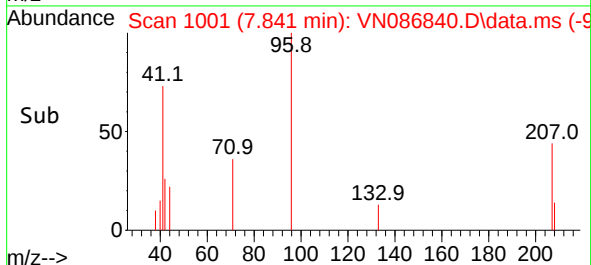
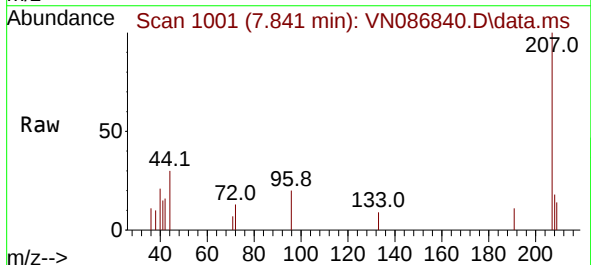


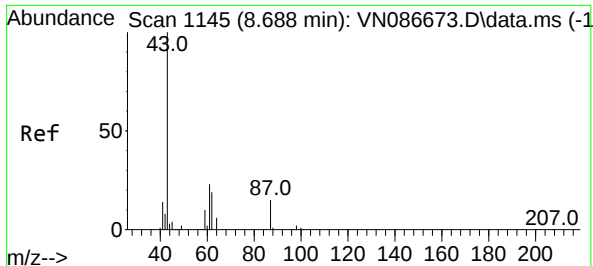
Tgt Ion:117 Resp: 24239
Ion Ratio Lower Upper
117 100
119 5.5 77.0 115.6#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 0.325 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.065 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

Tgt Ion: 41 Resp: 749
Ion Ratio Lower Upper
41 100
39 7.3 44.9 67.3#
67 0.0 63.4 95.0#
52 0.0 24.4 36.6#

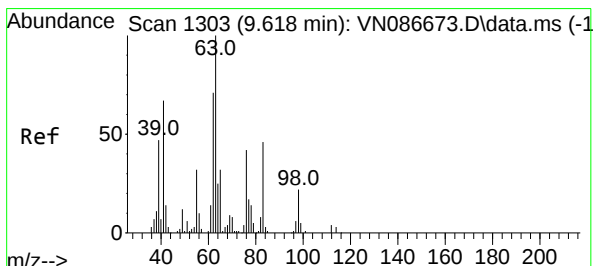
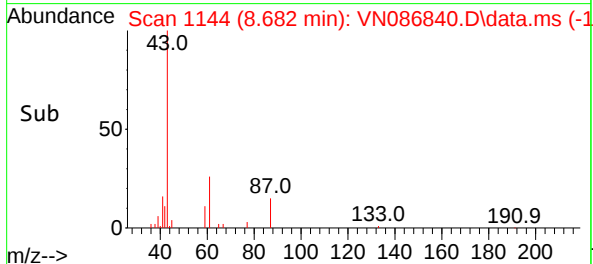
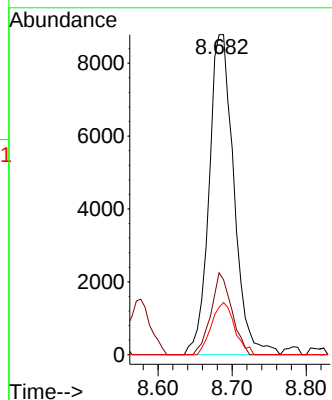
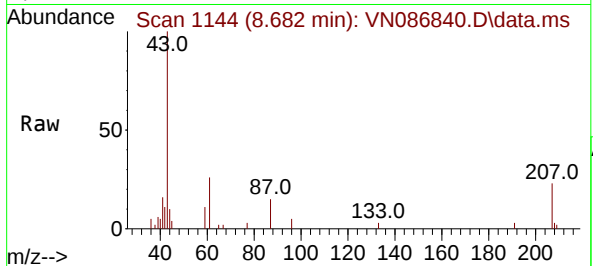




#43
Isopropyl Acetate
Concen: 2.383 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.006 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

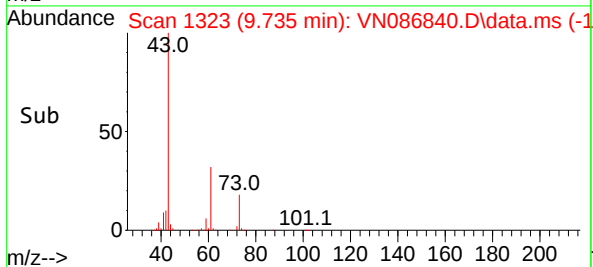
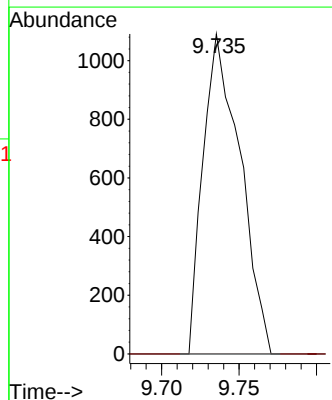
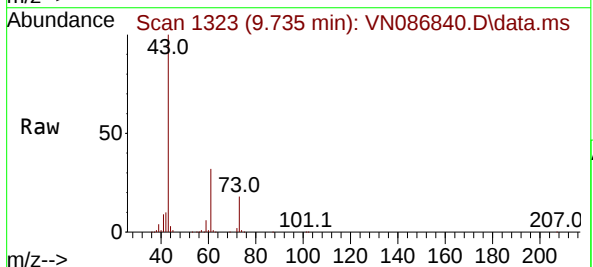
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#01

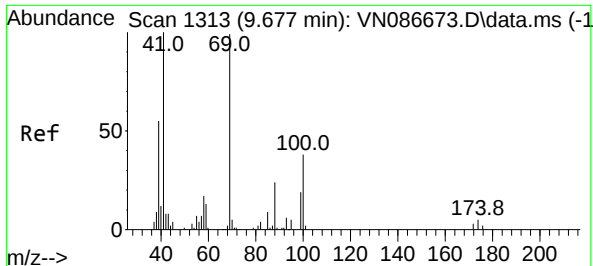
Tgt Ion	Ratio	Lower	Upper
43	100		
61	21.4	21.4	32.2#
87	15.1	11.1	16.7



#45
1,2-Dichloropropane
Concen: 0.553 ug/l
RT: 9.735 min Scan# 1323
Delta R.T. 0.117 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

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





#48

Methyl methacrylate

Concen: 33.170 ug/l

RT: 9.741 min Scan# 11

Delta R.T. 0.065 min

Lab File: VN086840.D

Acq: 03 Jun 2025 14:08

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#01

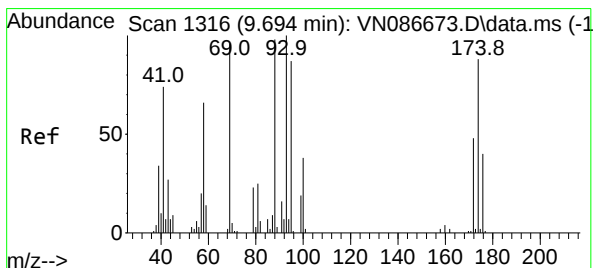
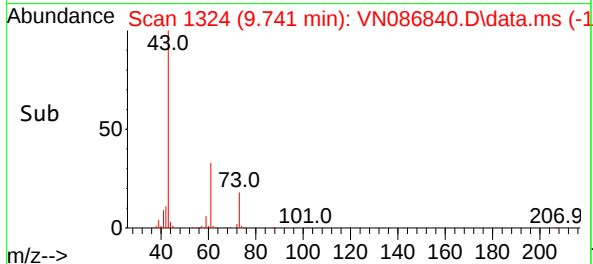
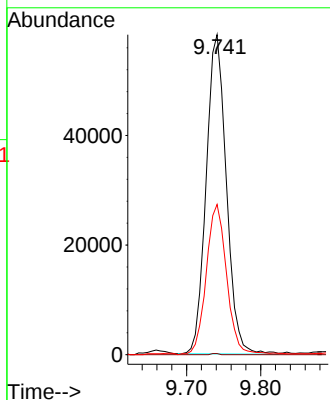
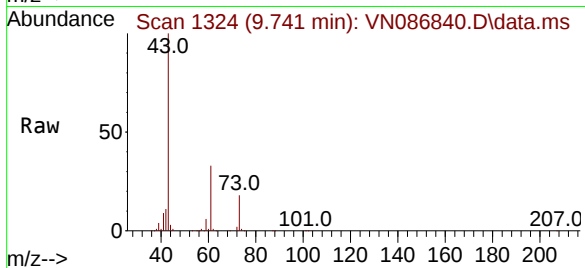
Tgt Ion: 41 Resp: 110116

Ion Ratio Lower Upper

41 100

69 0.1 74.1 111.1#

39 48.0 44.1 66.1



#49

1,4-Dioxane

Concen: 7.298 ug/l

RT: 9.700 min Scan# 1317

Delta R.T. 0.006 min

Lab File: VN086840.D

Acq: 03 Jun 2025 14:08

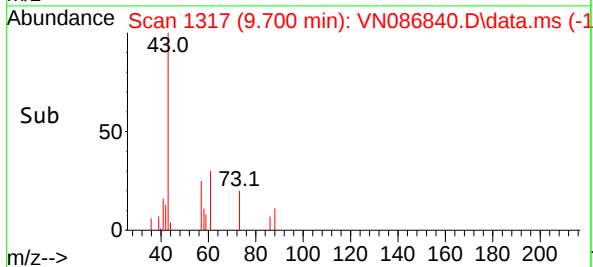
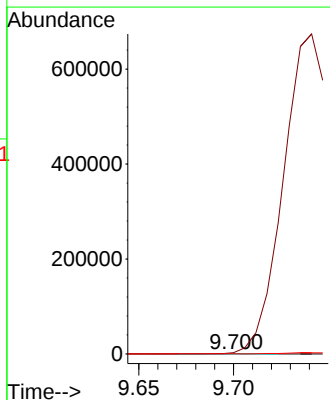
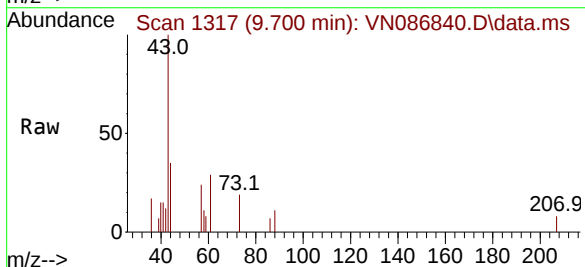
Tgt Ion: 88 Resp: 513

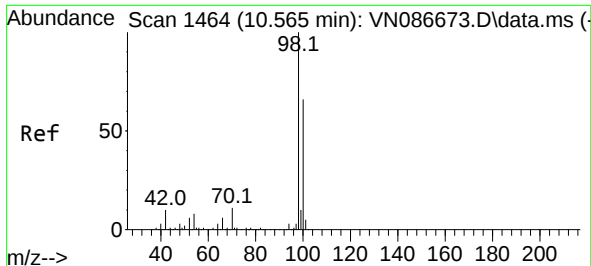
Ion Ratio Lower Upper

88 100

43 0.0 23.6 35.4#

58 61.4 55.3 82.9

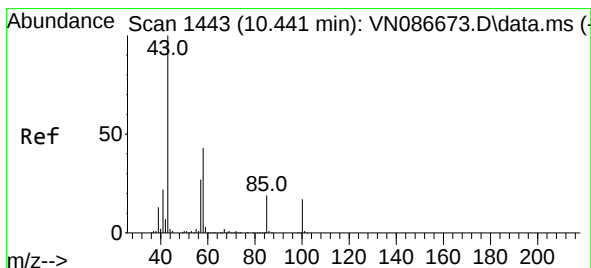
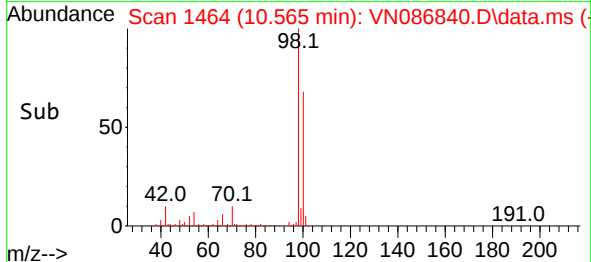
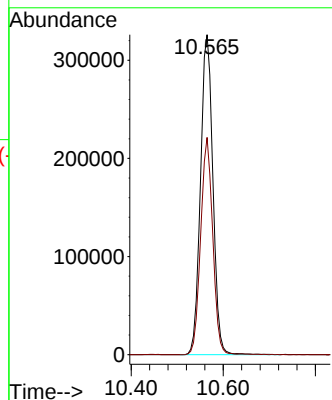
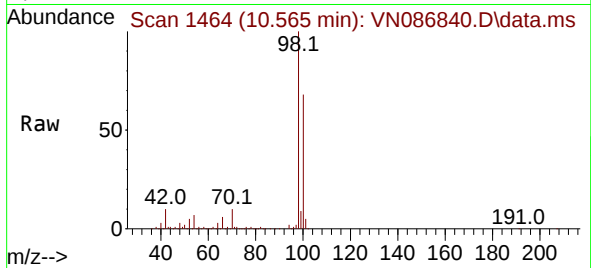




#50
Toluene-d8
Concen: 51.390 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

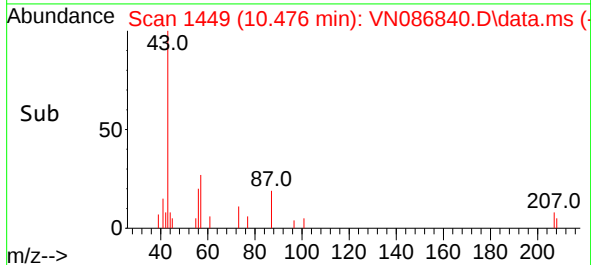
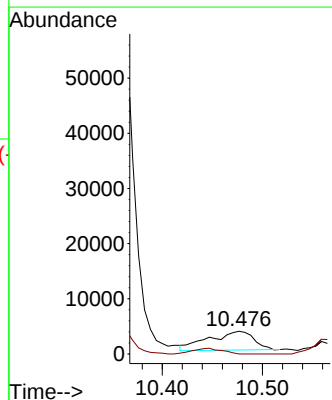
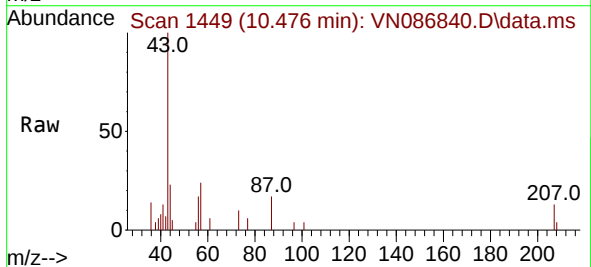
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#01

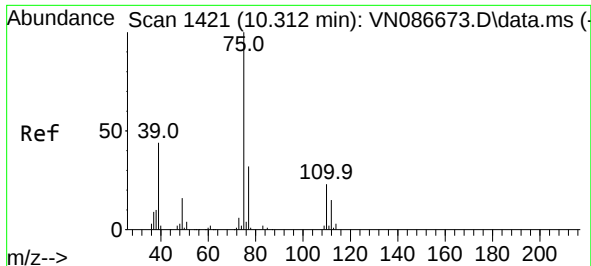
Tgt Ion: 98 Resp: 610799
Ion Ratio Lower Upper
98 100
100 66.1 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 2.484 ug/l
RT: 10.476 min Scan# 1449
Delta R.T. 0.035 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

Tgt Ion: 43 Resp: 10732
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#

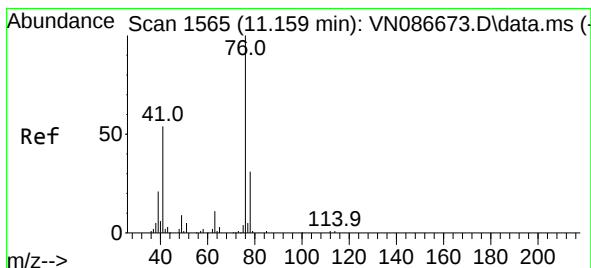
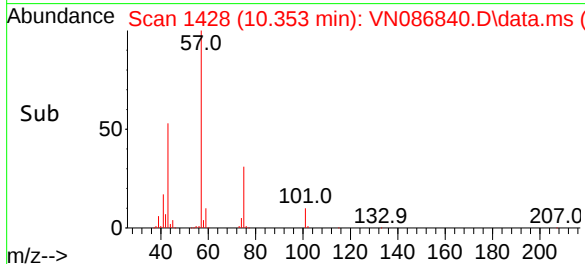
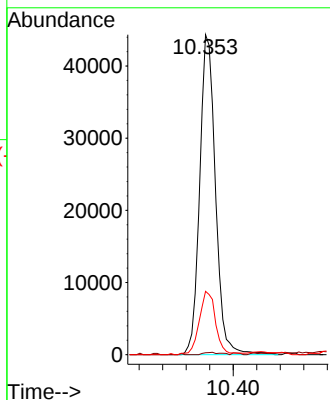
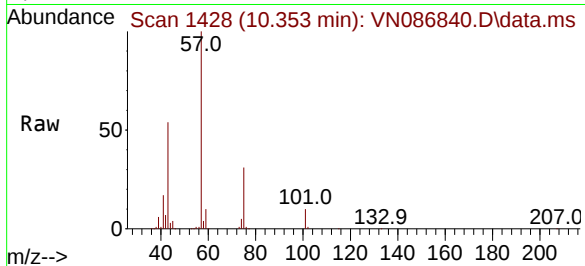




#54
 cis-1,3-Dichloropropene
 Concen: 15.722 ug/l
 RT: 10.353 min Scan# 1428
 Delta R.T. 0.041 min
 Lab File: VN086840.D
 Acq: 03 Jun 2025 14:08

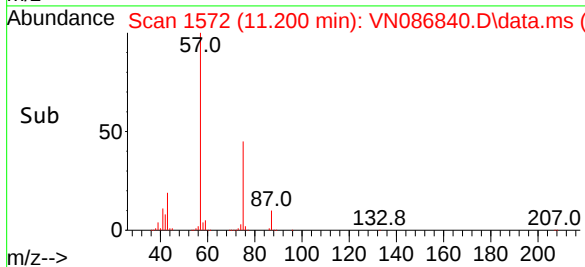
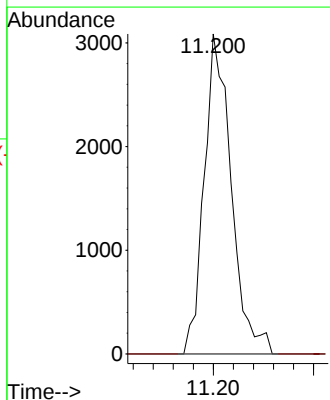
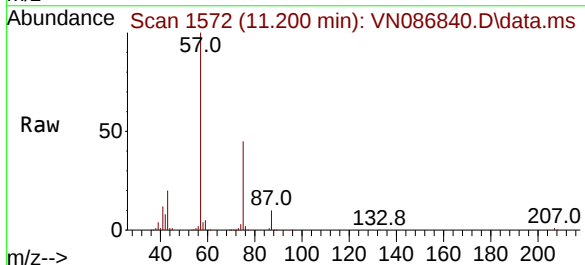
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#01

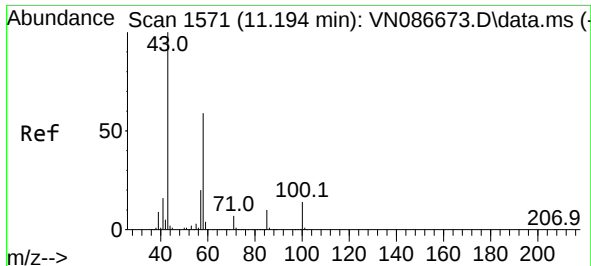
Tgt Ion: 75 Resp: 82824
 Ion Ratio Lower Upper
 75 100
 77 0.6 25.3 37.9#
 39 19.8 35.2 52.8#



#57
 1,3-Dichloropropane
 Concen: 1.049 ug/l
 RT: 11.200 min Scan# 1572
 Delta R.T. 0.041 min
 Lab File: VN086840.D
 Acq: 03 Jun 2025 14:08

Tgt Ion: 76 Resp: 5785
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.8 38.8#

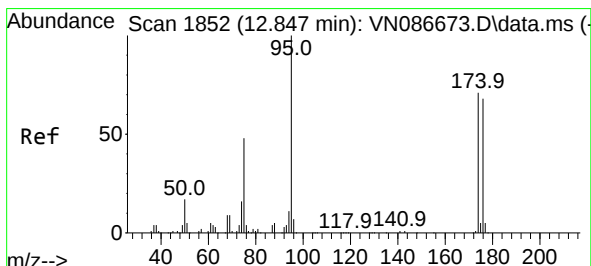
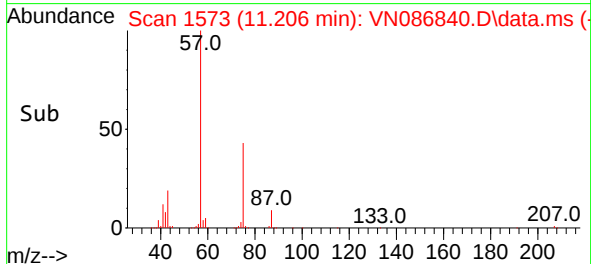
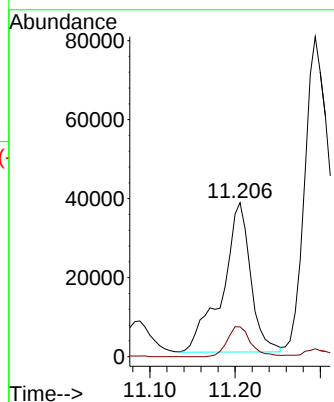
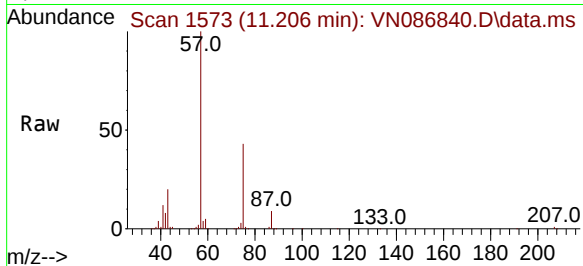




#59
2-Hexanone
Concen: 27.604 ug/l
RT: 11.206 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

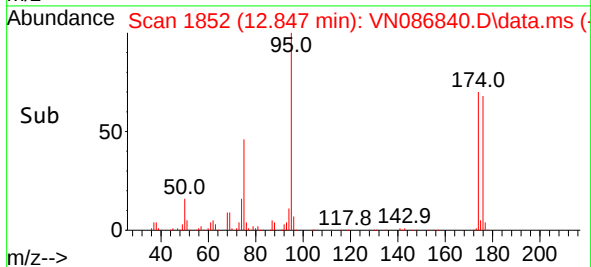
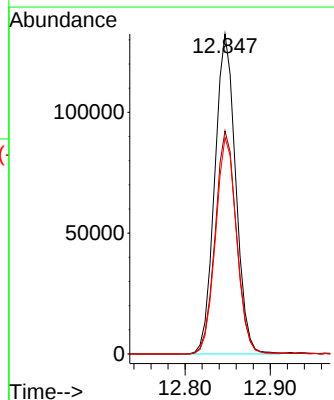
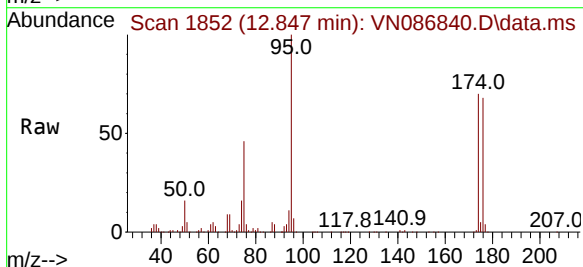
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#01

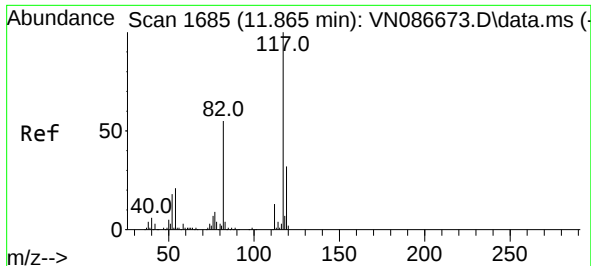
Tgt Ion: 43 Resp: 87089
Ion Ratio Lower Upper
43 100
58 16.8 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 53.876 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

Tgt Ion: 95 Resp: 226103
Ion Ratio Lower Upper
95 100
174 70.8 0.0 145.4
176 67.7 0.0 137.8

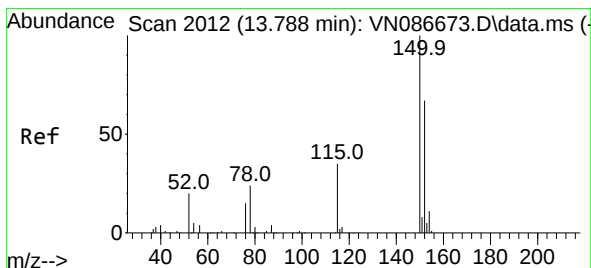
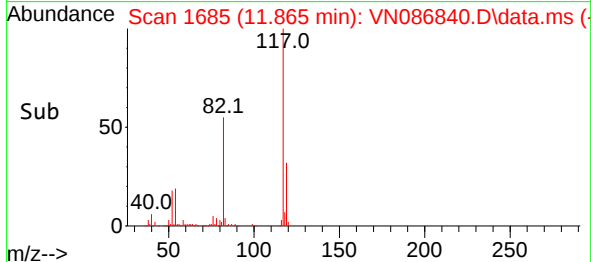
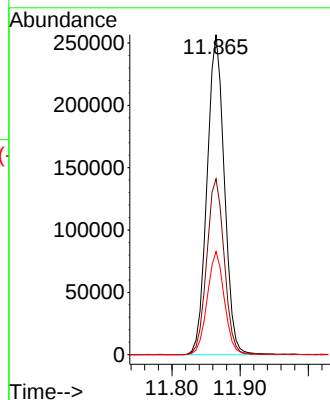
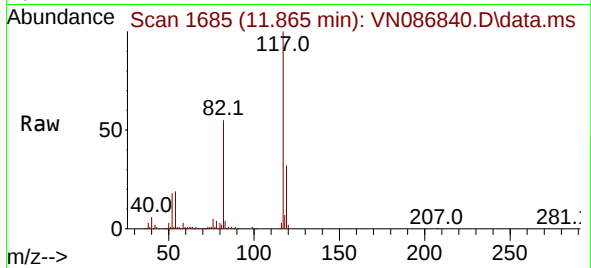




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

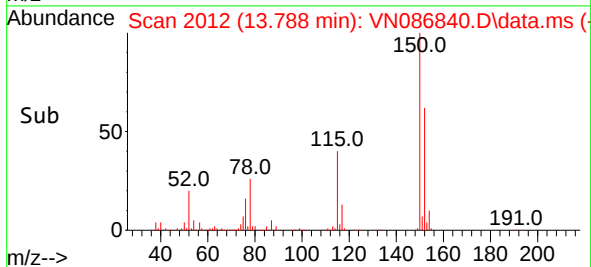
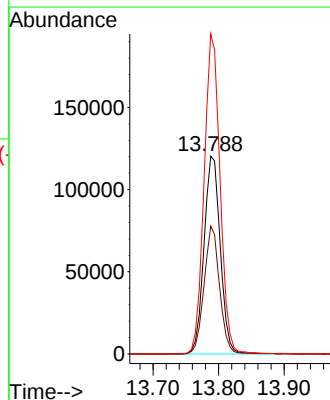
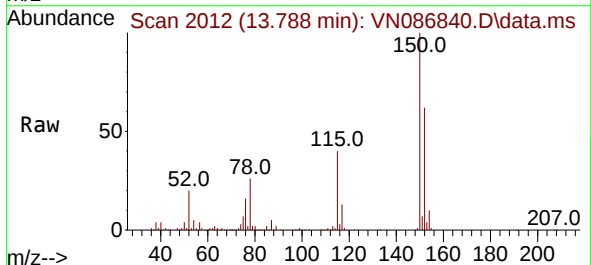
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#01

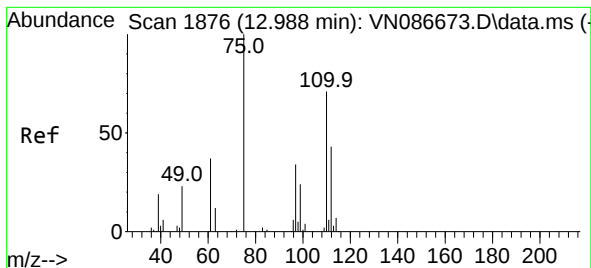
Tgt Ion:117 Resp: 453112
Ion Ratio Lower Upper
117 100
82 54.9 44.2 66.2
119 32.3 25.4 38.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

Tgt Ion:152 Resp: 207697
Ion Ratio Lower Upper
152 100
115 61.9 30.0 90.1
150 159.1 0.0 347.8





#76

1,2,3-Trichloropropane

Concen: 22.879 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. -0.141 min

Lab File: VN086840.D

Acq: 03 Jun 2025 14:08

Instrument :

MSVOA_N

ClientSampleId :

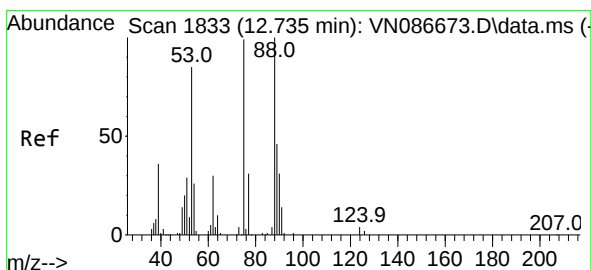
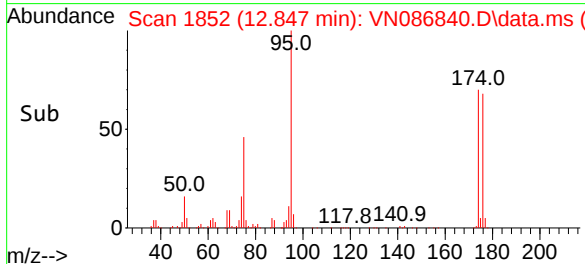
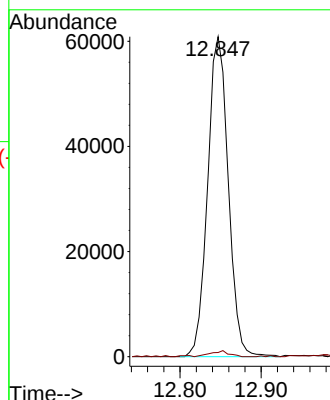
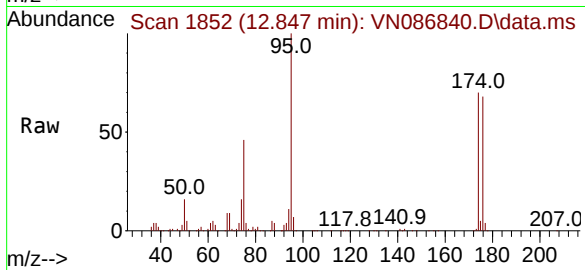
PB168225ZHE#01

Tgt Ion: 75 Resp: 107467

Ion Ratio Lower Upper

75 100

77 1.6 96.0 288.1#



#81

trans-1,4-Dichloro-2-butene

Concen: 57.738 ug/l

RT: 12.847 min Scan# 1852

Delta R.T. 0.112 min

Lab File: VN086840.D

Acq: 03 Jun 2025 14:08

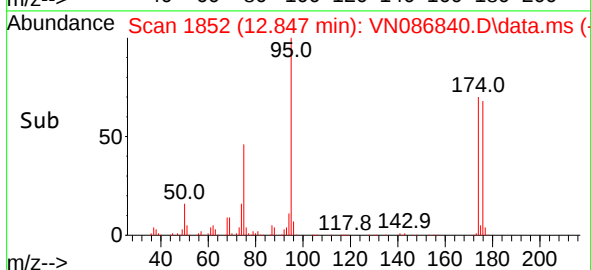
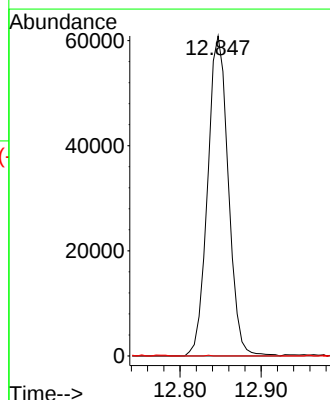
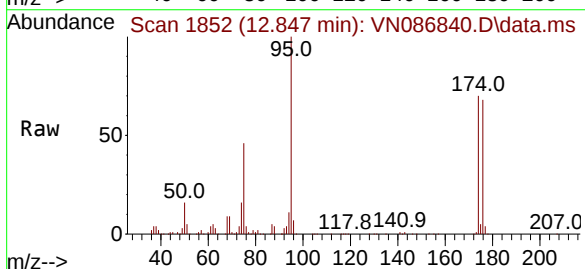
Tgt Ion: 75 Resp: 107467

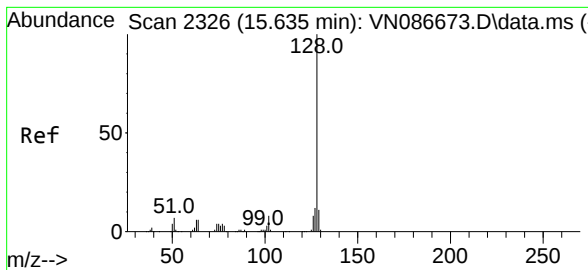
Ion Ratio Lower Upper

75 100

53 0.0 70.4 105.6#

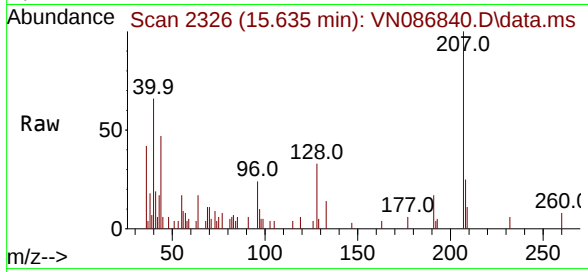
89 0.0 32.4 48.6#





#95
Naphthalene
Concen: 0.307 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.000 min
Lab File: VN086840.D
Acq: 03 Jun 2025 14:08

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#01



Tgt Ion:	128	Resp:	2986
Ion	Ratio	Lower	Upper
128	100		
127	7.8	10.1	15.1#
129	7.8	8.6	13.0#

