

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086846.D
 Acq On : 03 Jun 2025 16:34
 Operator : JC\MD
 Sample : PB168225ZHE#07
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 13 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#07

Quant Time: Jun 04 02:01:42 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)

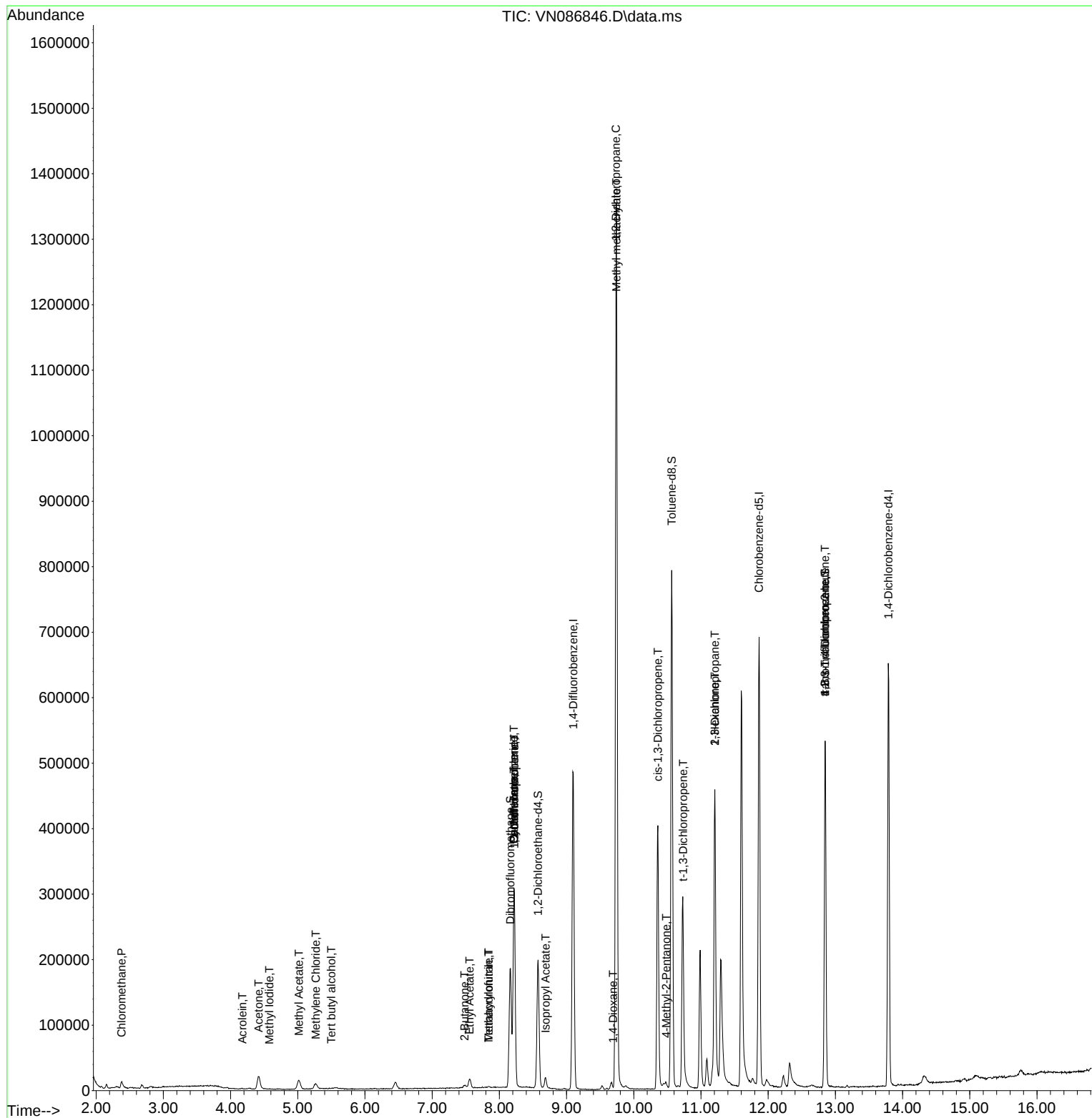
Internal Standards						
1) Pentafluorobenzene	8.218	168	233699	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	455449	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	421415	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	186046	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161256	49.935	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 99.880%			
35) Dibromofluoromethane	8.165	113	142407	52.502	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 105.000%			
50) Toluene-d8	10.565	98	570216	50.730	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 101.460%			
62) 4-Bromofluorobenzene	12.847	95	206325	51.986	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 103.980%			
Target Compounds						Qvalue
3) Chloromethane	2.377	50	18054	4.730	ug/l	94
10) Methyl Iodide	4.577	142	654	0.214	ug/l #	43
11) Tert butyl alcohol	5.500	59	349	0.593	ug/l #	73
13) Acrolein	4.177	56	541	0.860	ug/l #	53
16) Acetone	4.418	43	37966	31.430	ug/l	93
18) Methyl Acetate	5.018	43	29606	8.757	ug/l	99
20) Methylene Chloride	5.271	84	6822	2.140	ug/l	88
25) 2-Butanone	7.483	43	6924	3.709	ug/l	92
29) Tetrahydrofuran	7.841	42	1113	0.913	ug/l #	58
31) Cyclohexane	8.218	56	4282	0.883	ug/l #	1
36) 1,1-Dichloropropene	8.224	75	18437	4.608	ug/l #	49
37) Ethyl Acetate	7.559	43	22138	5.478	ug/l	98
38) Carbon Tetrachloride	8.218	117	23285	5.907	ug/l #	17
41) Methacrylonitrile	7.841	41	596	0.273	ug/l #	35
43) Isopropyl Acetate	8.688	43	17707	2.186	ug/l	93
45) 1,2-Dichloropropane	9.735	63	1765	0.569	ug/l #	42
48) Methyl methacrylate	9.741	41	113488	36.148	ug/l #	35
49) 1,4-Dioxane	9.694	88	474	7.130	ug/l #	41
51) 4-Methyl-2-Pentanone	10.482	43	6884	1.685	ug/l #	33
53) t-1,3-Dichloropropene	10.735	75	916	0.201	ug/l #	43
54) cis-1,3-Dichloropropene	10.359	75	87077	17.478	ug/l #	55
57) 1,3-Dichloropropane	11.206	76	5592	1.073	ug/l #	42
59) 2-Hexanone	11.206	43	87694	29.392	ug/l #	43
76) 1,2,3-Trichloropropane	12.847	75	98267	23.355	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	98267	58.939	ug/l #	15

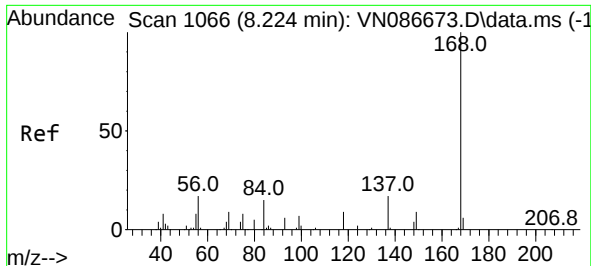
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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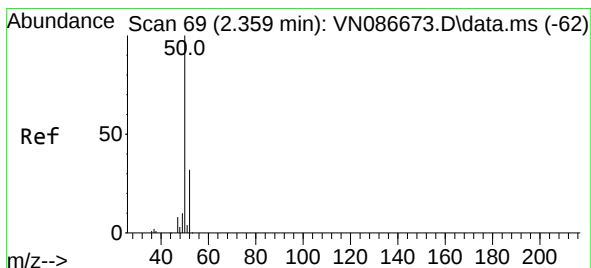
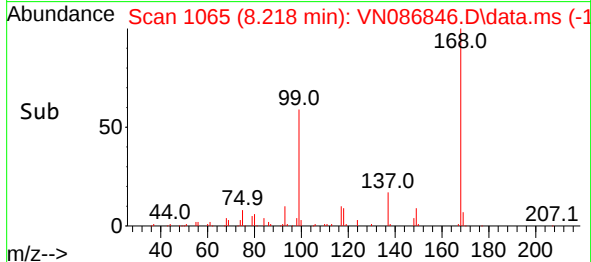
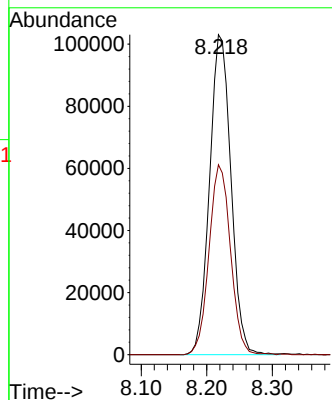
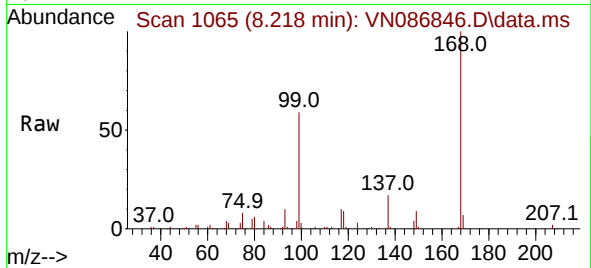




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1
Delta R.T. -0.006 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

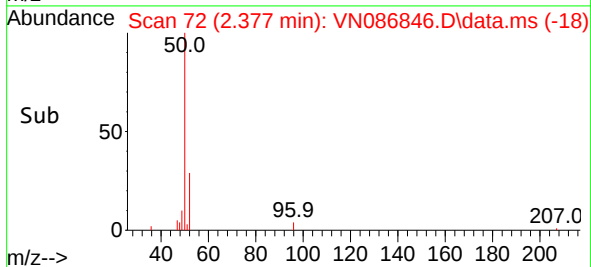
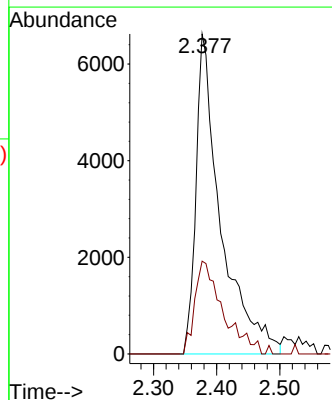
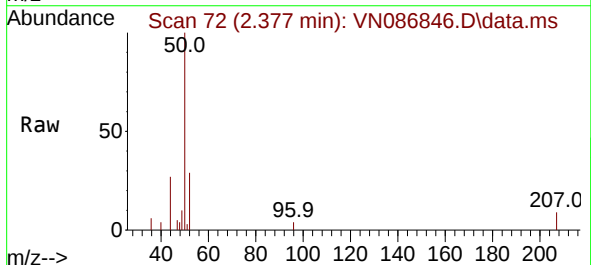
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#07

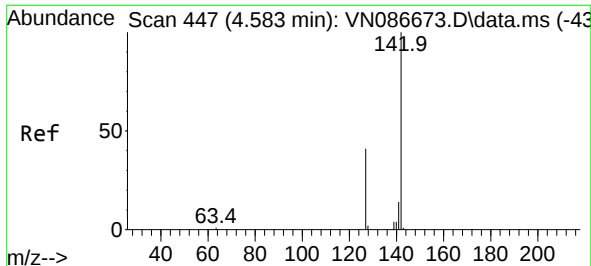
Tgt Ion:168 Resp: 233699
Ion Ratio Lower Upper
168 100
99 59.4 47.0 70.4



#3
Chloromethane
Concen: 4.730 ug/l
RT: 2.377 min Scan# 72
Delta R.T. 0.018 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

Tgt Ion: 50 Resp: 18054
Ion Ratio Lower Upper
50 100
52 29.0 25.9 38.9





#10

Methyl Iodide

Concen: 0.214 ug/l

RT: 4.577 min Scan# 447

Delta R.T. -0.006 min

Lab File: VN086846.D

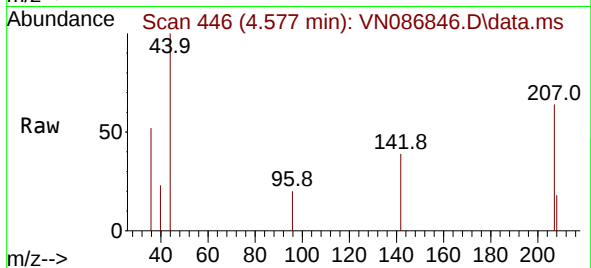
Acq: 03 Jun 2025 16:34

Instrument :

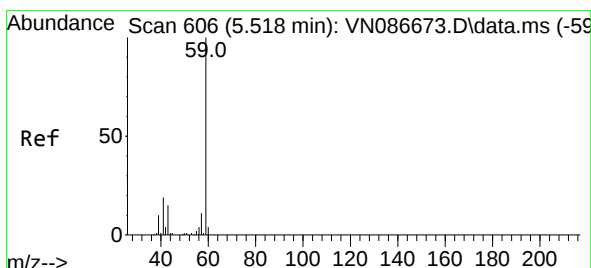
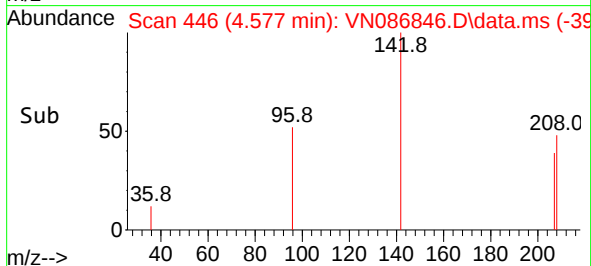
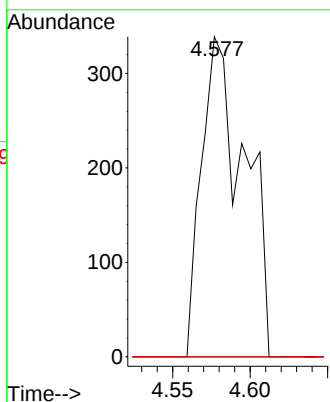
MSVOA_N

ClientSampleId :

PB168225ZHE#07



Tgt Ion:	142	Resp:	654
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: 0.593 ug/l

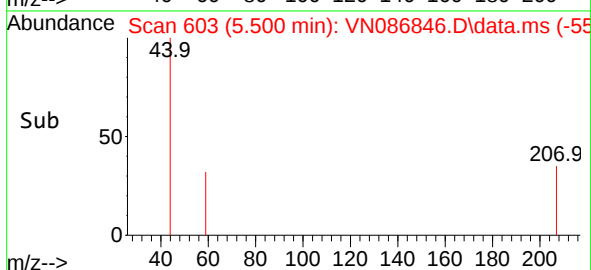
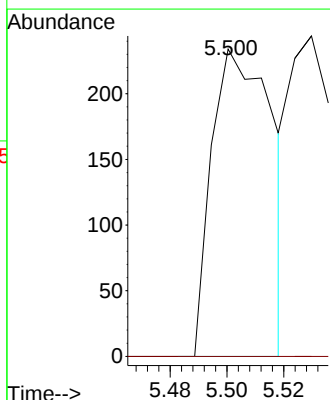
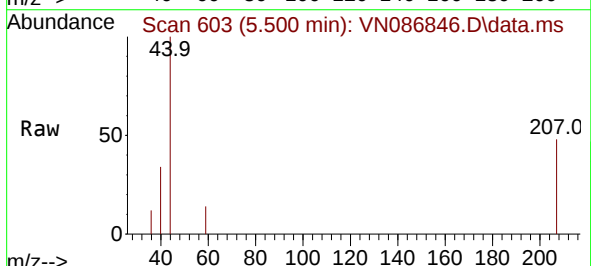
RT: 5.500 min Scan# 603

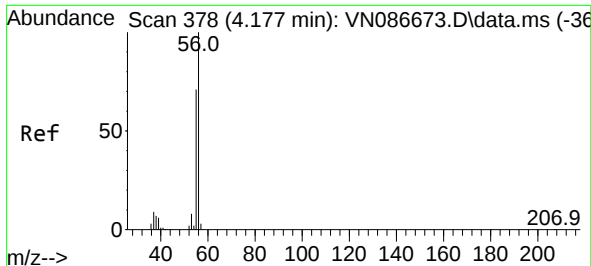
Delta R.T. -0.018 min

Lab File: VN086846.D

Acq: 03 Jun 2025 16:34

Tgt Ion:	59	Resp:	349
Ion	Ratio	Lower	Upper
59	100		
57	0.0	8.2	12.2#

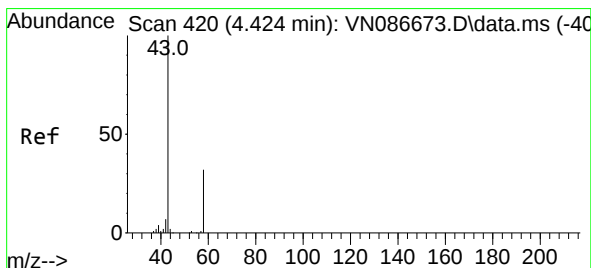
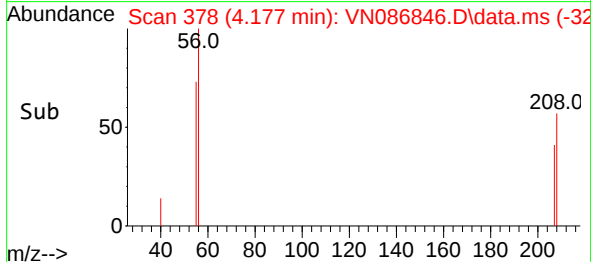
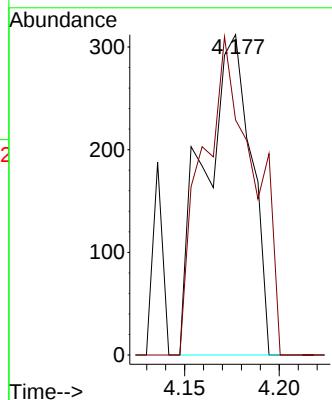
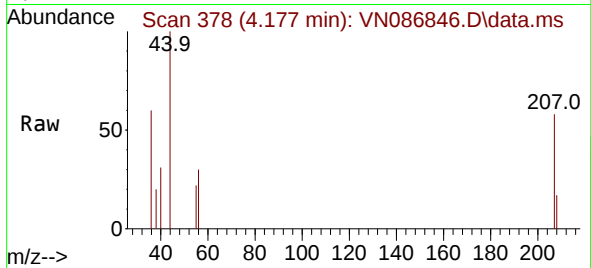




#13
Acrolein
Concen: 0.860 ug/l
RT: 4.177 min Scan# 31
Delta R.T. -0.000 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

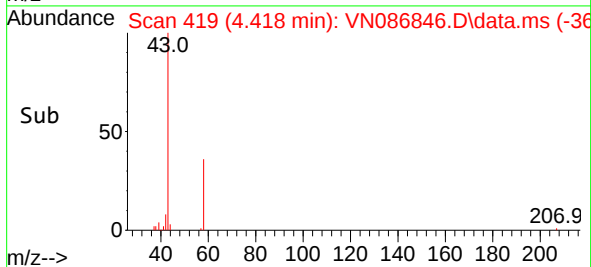
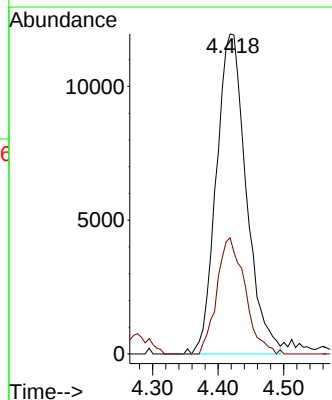
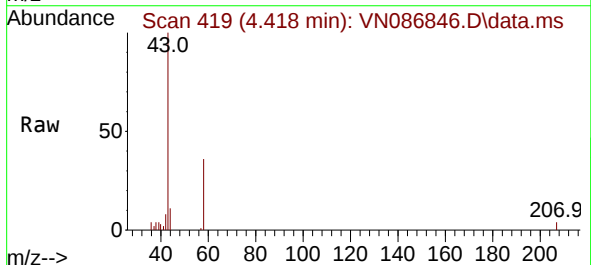
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#07

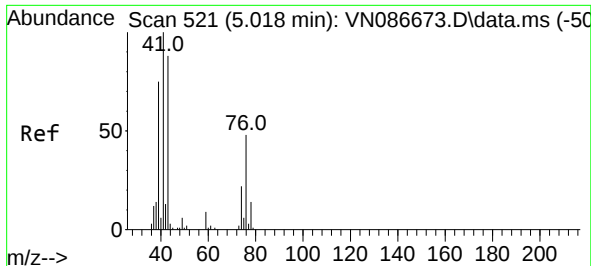
Tgt Ion: 56 Resp: 541
Ion Ratio Lower Upper
56 100
55 107.9 55.7 83.5#



#16
Acetone
Concen: 31.430 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

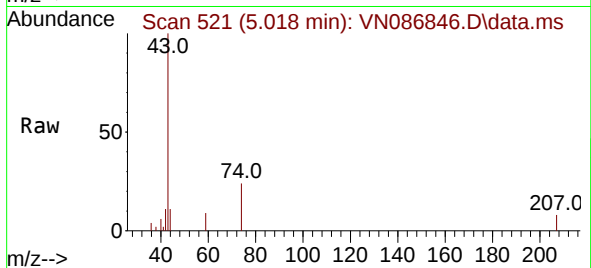
Tgt Ion: 43 Resp: 37966
Ion Ratio Lower Upper
43 100
58 36.3 25.8 38.6



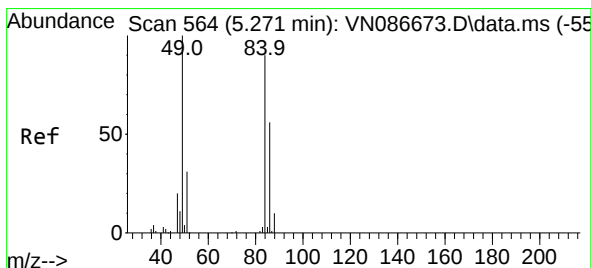
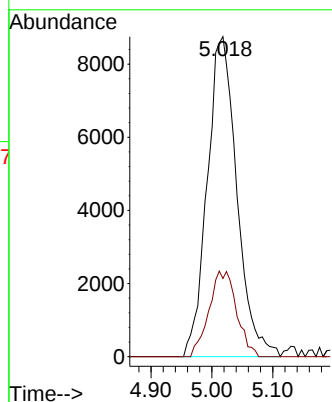
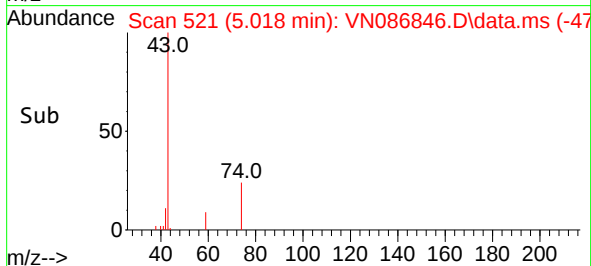


#18
Methyl Acetate
Concen: 8.757 ug/l
RT: 5.018 min Scan# 51
Delta R.T. -0.000 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

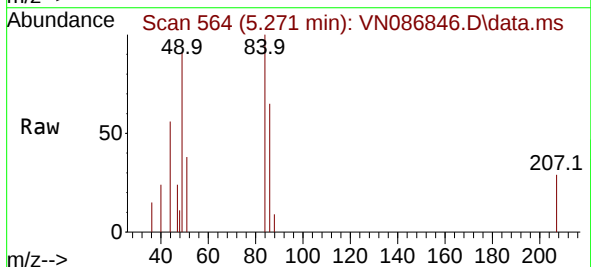
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#07



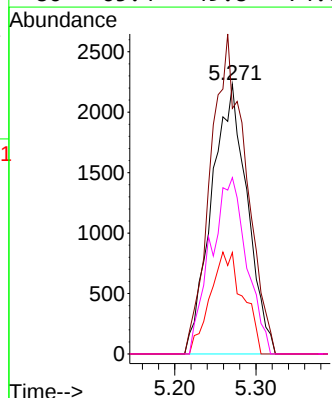
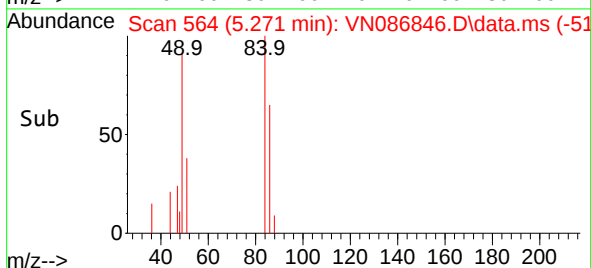
Tgt Ion: 43 Resp: 29606
Ion Ratio Lower Upper
43 100
74 24.9 20.5 30.7

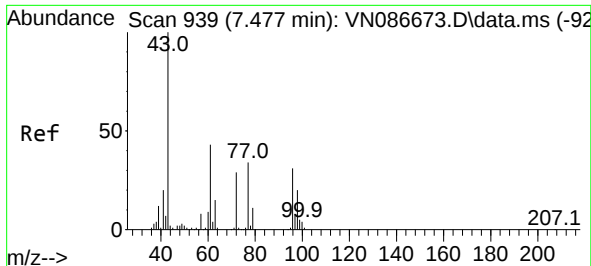


#20
Methylene Chloride
Concen: 2.140 ug/l
RT: 5.271 min Scan# 564
Delta R.T. -0.000 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34



Tgt Ion: 84 Resp: 6822
Ion Ratio Lower Upper
84 100
49 91.1 88.8 133.2
51 37.7 27.8 41.6
86 65.4 49.8 74.6

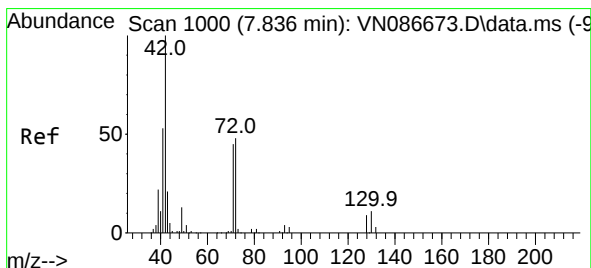
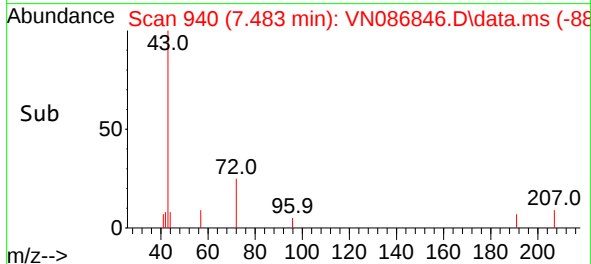
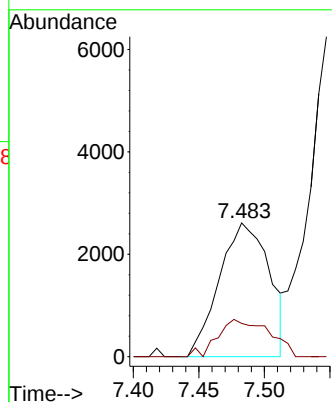
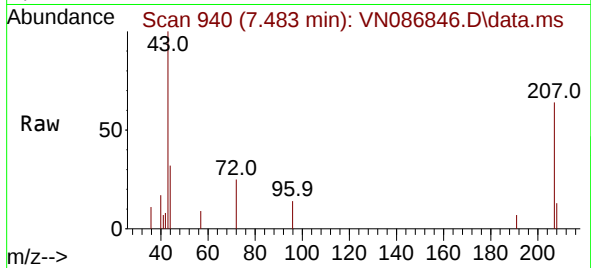




#25
2-Butanone
Concen: 3.709 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

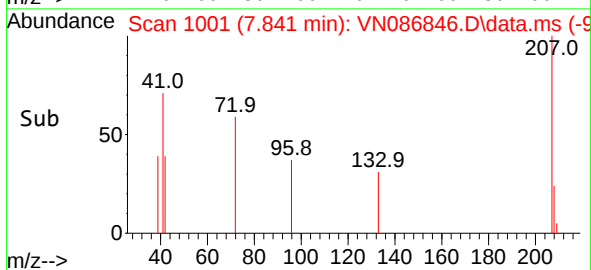
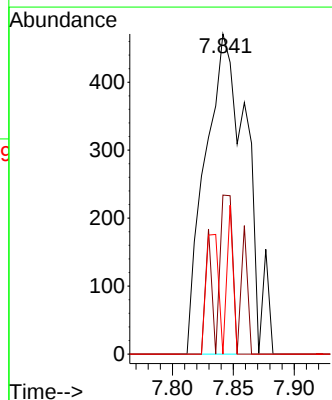
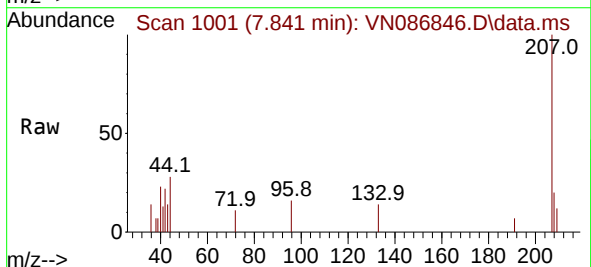
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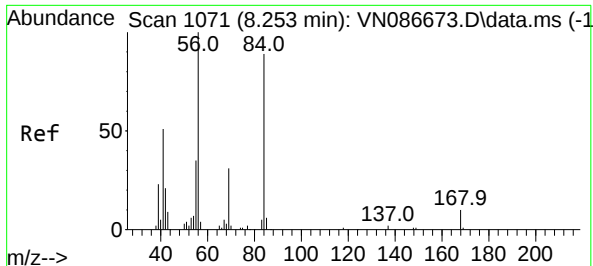
Tgt Ion: 43 Resp: 6924
Ion Ratio Lower Upper
43 100
72 24.8 23.1 34.7



#29
Tetrahydrofuran
Concen: 0.913 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.006 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

Tgt Ion: 42 Resp: 1113
Ion Ratio Lower Upper
42 100
72 26.6 38.7 58.1#
71 11.1 36.2 54.4#

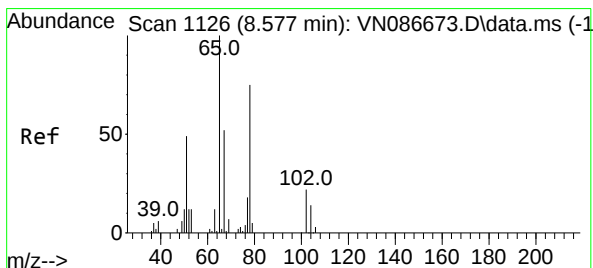
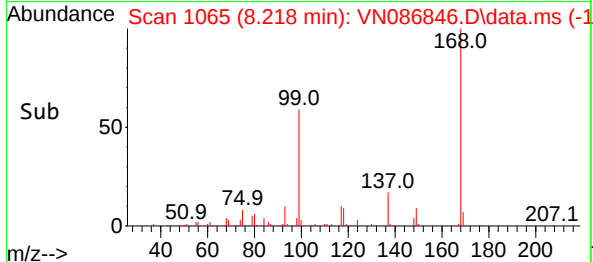
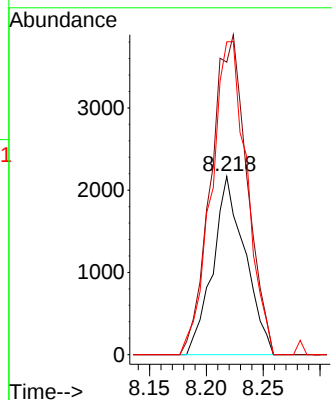
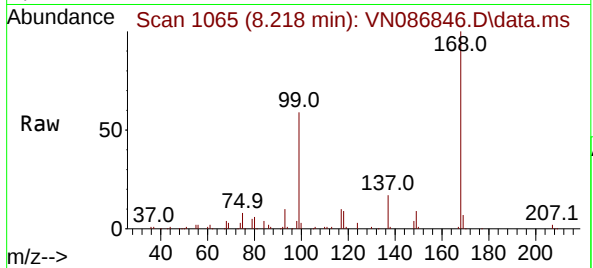




#31
Cyclohexane
Concen: 0.883 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

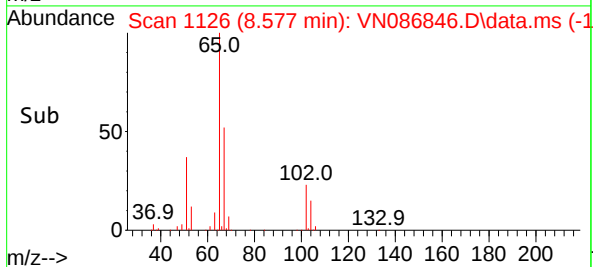
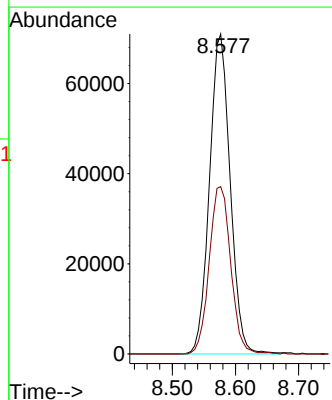
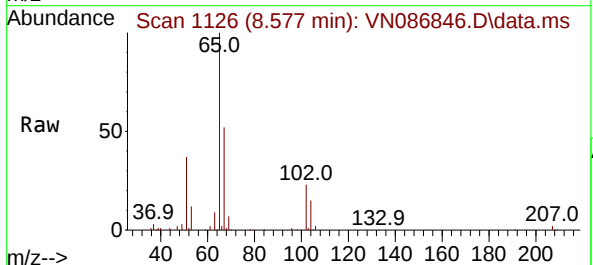
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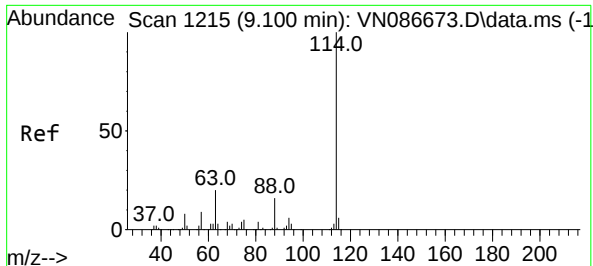
Tgt Ion: 56 Resp: 4282
Ion Ratio Lower Upper
56 100
69 164.1 25.0 37.6#
84 175.5 71.0 106.4#



#33
1,2-Dichloroethane-d4
Concen: 49.935 ug/l
RT: 8.577 min Scan# 1126
Delta R.T. -0.000 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

Tgt Ion: 65 Resp: 161256
Ion Ratio Lower Upper
65 100
67 54.5 0.0 106.4





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN086846.D

Acq: 03 Jun 2025 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#07

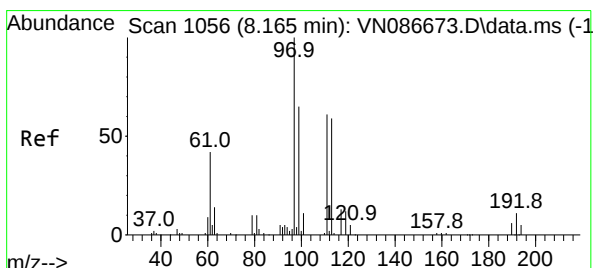
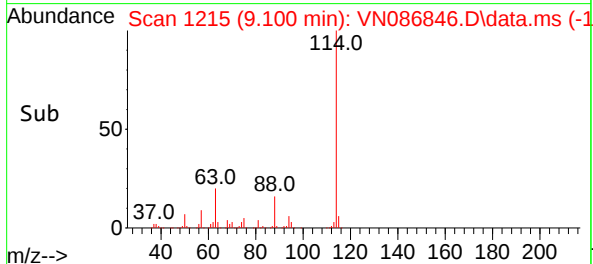
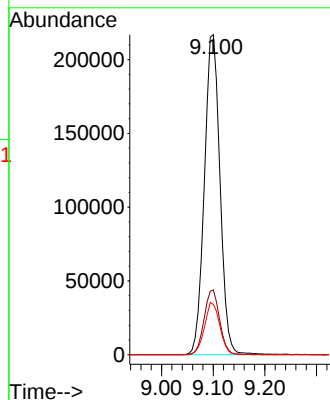
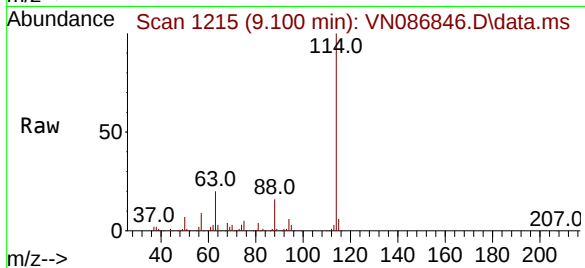
Tgt Ion:114 Resp: 455449

Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.2

88 15.8 0.0 31.2



#35

Dibromofluoromethane

Concen: 52.502 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. -0.000 min

Lab File: VN086846.D

Acq: 03 Jun 2025 16:34

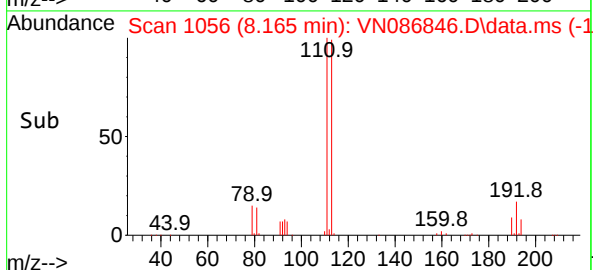
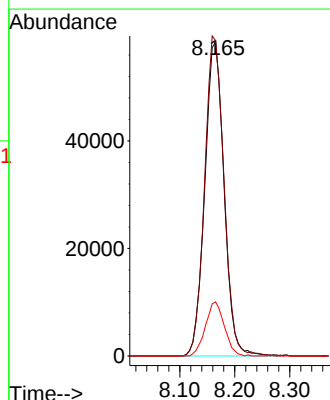
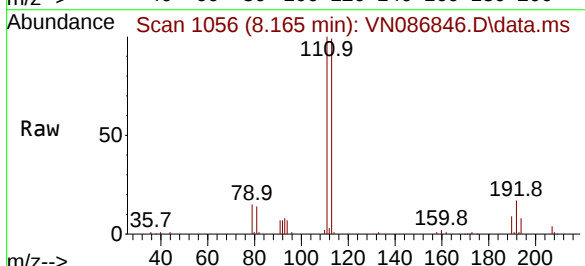
Tgt Ion:113 Resp: 142407

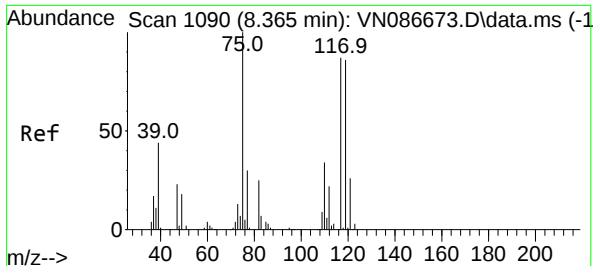
Ion Ratio Lower Upper

113 100

111 102.1 82.2 123.2

192 16.9 13.8 20.8





#36

1,1-Dichloropropene

Concen: 4.608 ug/l

RT: 8.224 min Scan# 1

Delta R.T. -0.141 min

Lab File: VN086846.D

Acq: 03 Jun 2025 16:34

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#07

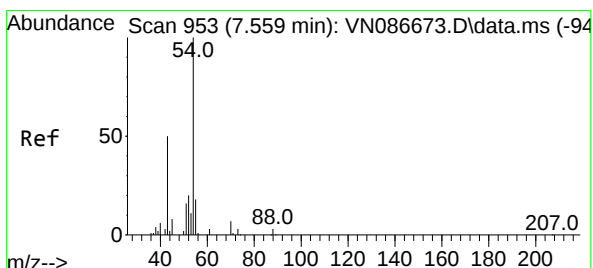
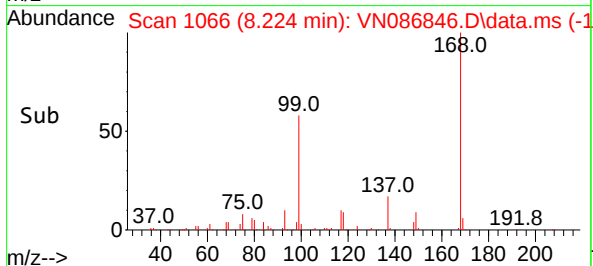
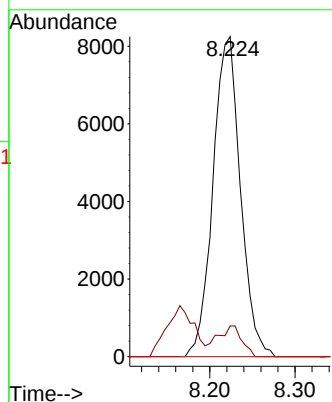
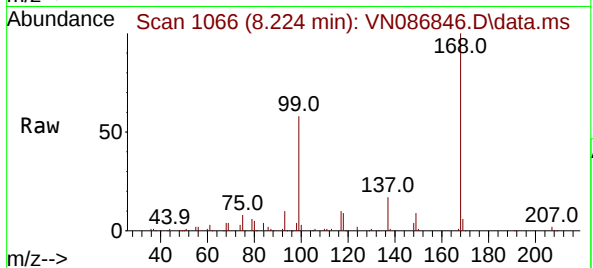
Tgt Ion: 75 Resp: 18437

Ion Ratio Lower Upper

75 100

110 8.7 17.5 52.5#

77 0.0 25.1 37.7#



#37

Ethyl Acetate

Concen: 5.478 ug/l

RT: 7.559 min Scan# 953

Delta R.T. -0.000 min

Lab File: VN086846.D

Acq: 03 Jun 2025 16:34

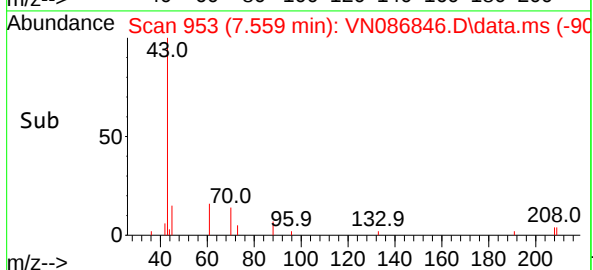
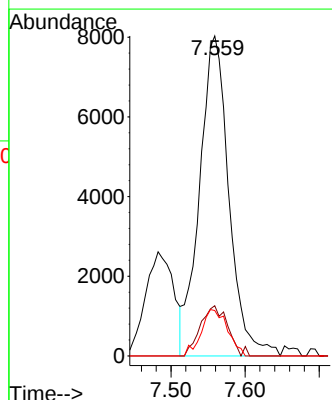
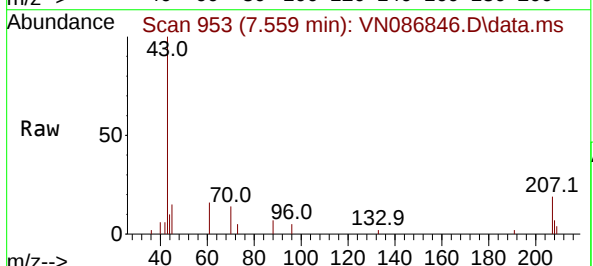
Tgt Ion: 43 Resp: 22138

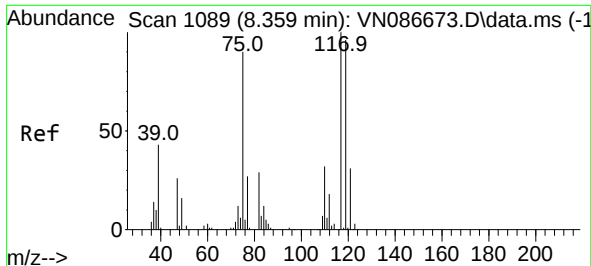
Ion Ratio Lower Upper

43 100

61 14.7 11.6 17.4

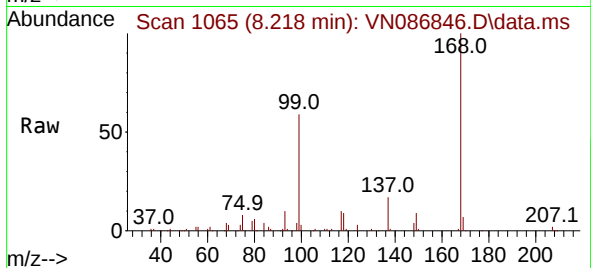
70 12.9 9.4 14.0



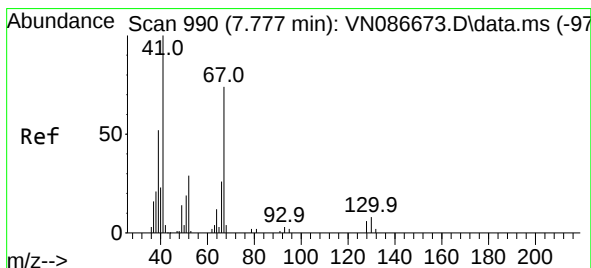
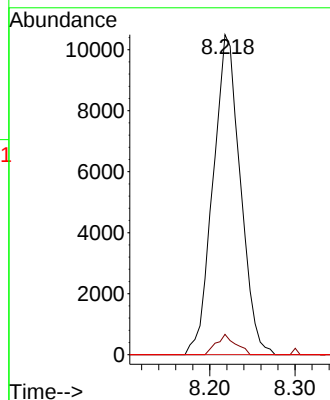
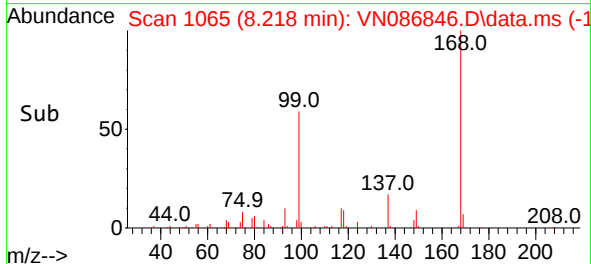


#38
Carbon Tetrachloride
Concen: 5.907 ug/l
RT: 8.218 min Scan# 1001
Delta R.T. -0.141 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#07

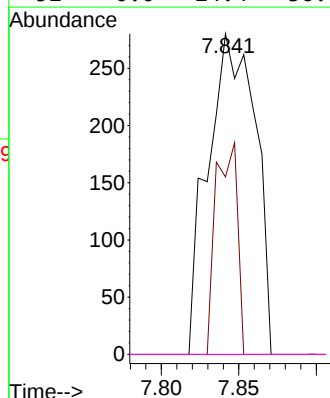
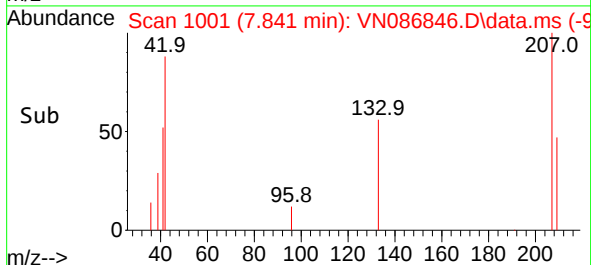
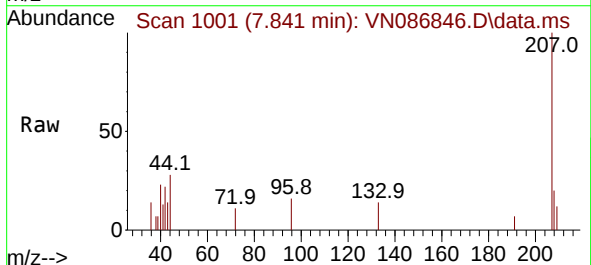


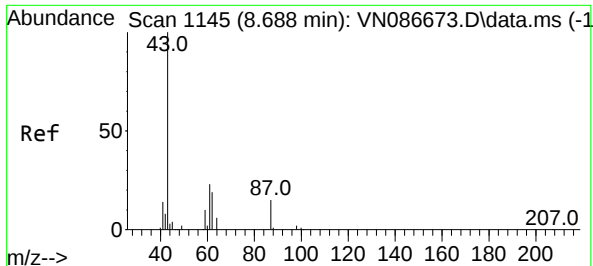
Tgt Ion:117 Resp: 23285
Ion Ratio Lower Upper
117 100
119 6.3 77.0 115.6#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 0.273 ug/l
RT: 7.841 min Scan# 1001
Delta R.T. 0.065 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

Tgt Ion: 41 Resp: 596
Ion Ratio Lower Upper
41 100
39 30.0 44.9 67.3#
67 0.0 63.4 95.0#
52 0.0 24.4 36.6#





#43

Isopropyl Acetate

Concen: 2.186 ug/l

RT: 8.688 min Scan# 1145

Delta R.T. -0.000 min

Lab File: VN086846.D

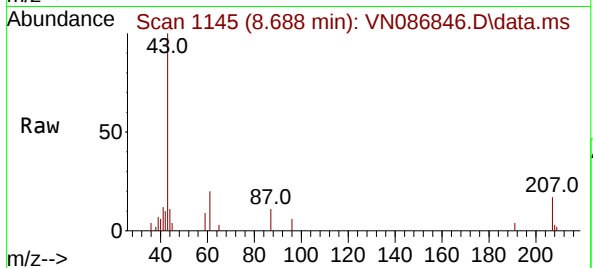
Acq: 03 Jun 2025 16:34

Instrument :

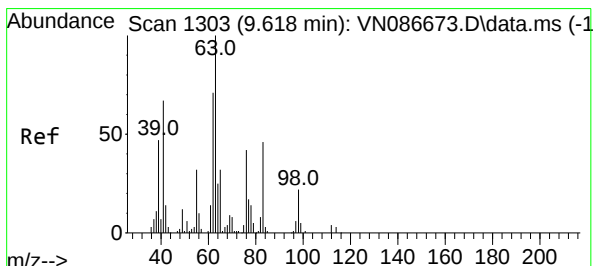
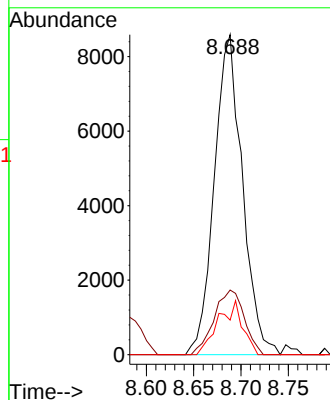
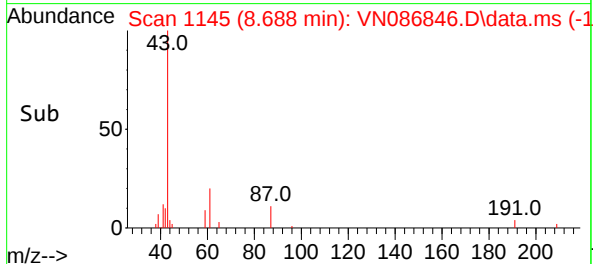
MSVOA_N

ClientSampleId :

PB168225ZHE#07



Tgt Ion:	43	Resp:	17707
Ion	Ratio	Lower	Upper
43	100		
61	21.8	21.4	32.2
87	14.6	11.1	16.7



#45

1,2-Dichloropropane

Concen: 0.569 ug/l

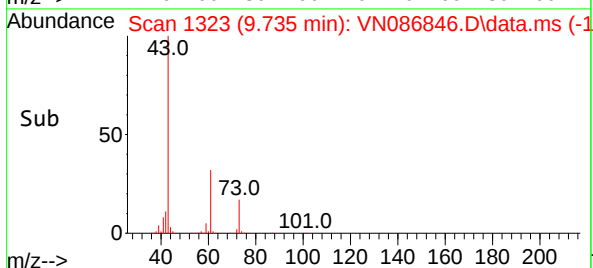
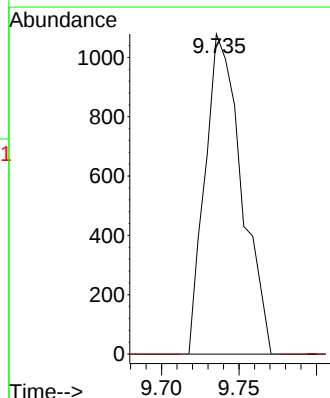
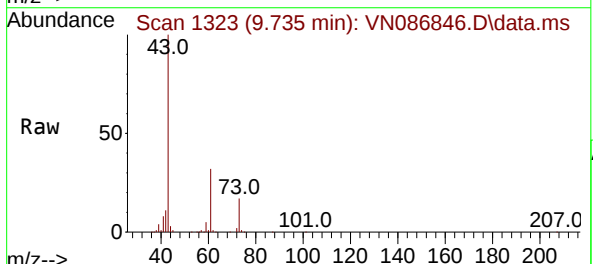
RT: 9.735 min Scan# 1323

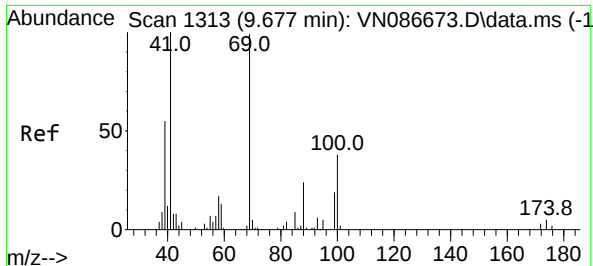
Delta R.T. 0.118 min

Lab File: VN086846.D

Acq: 03 Jun 2025 16:34

Tgt Ion:	63	Resp:	1765
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.8	38.6#

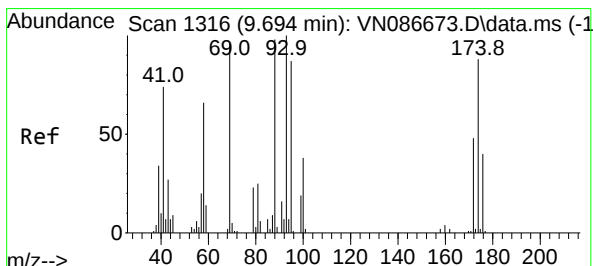
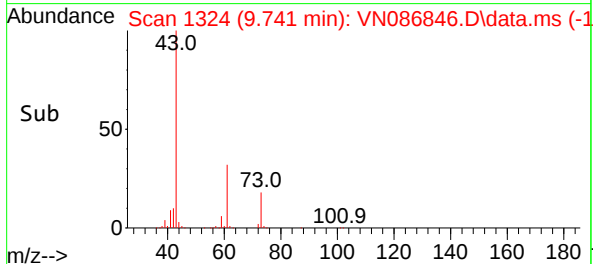
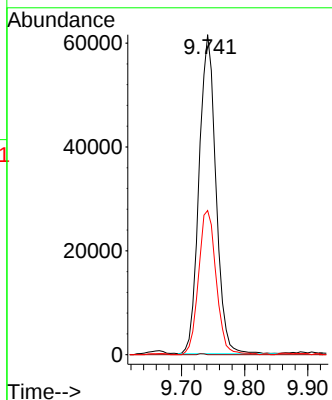
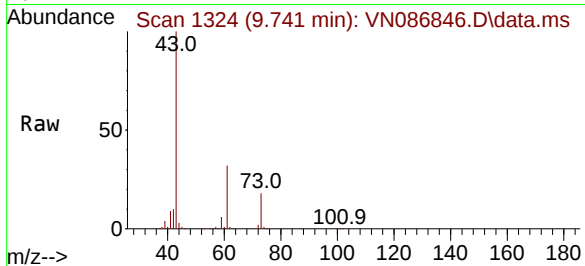




#48
Methyl methacrylate
Concen: 36.148 ug/l
RT: 9.741 min Scan# 113488
Delta R.T. 0.065 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

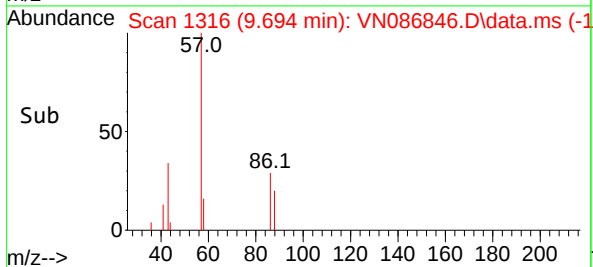
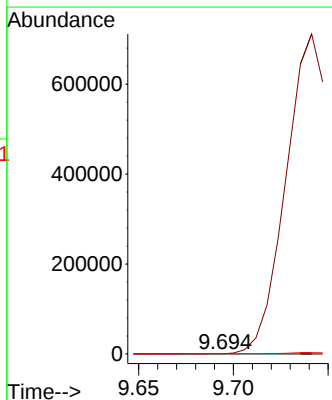
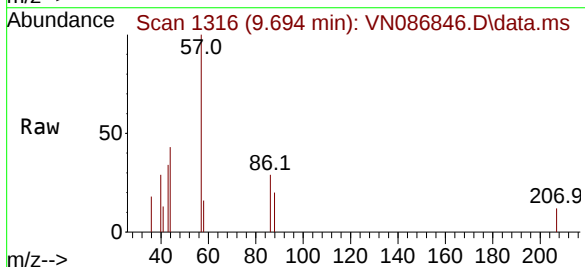
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#07

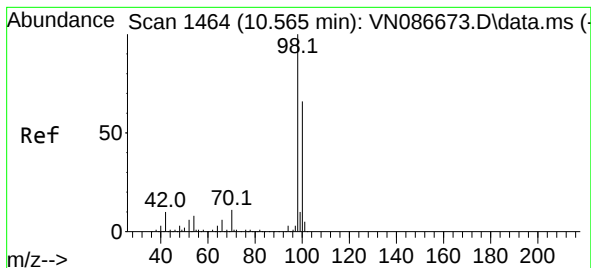
Tgt Ion: 41 Resp: 113488
Ion Ratio Lower Upper
41 100
69 0.1 74.1 111.1#
39 47.4 44.1 66.1



#49
1,4-Dioxane
Concen: 7.130 ug/l
RT: 9.694 min Scan# 1316
Delta R.T. -0.000 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

Tgt Ion: 88 Resp: 474
Ion Ratio Lower Upper
88 100
43 0.0 23.6 35.4#
58 118.8 55.3 82.9#

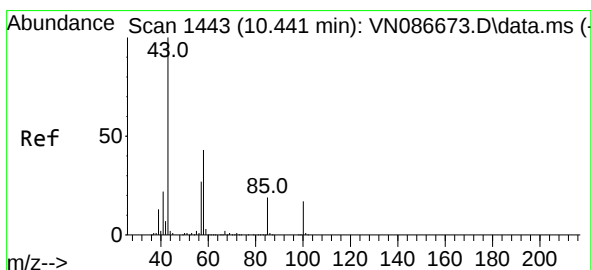
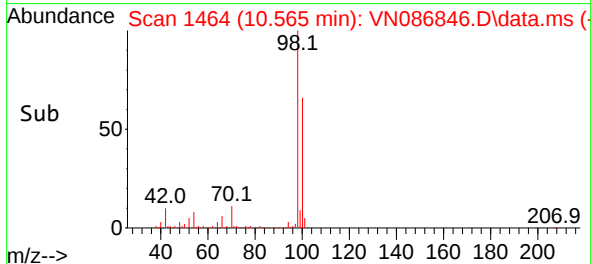
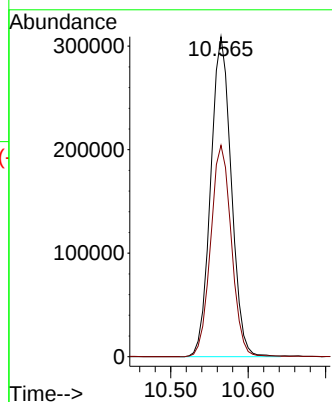
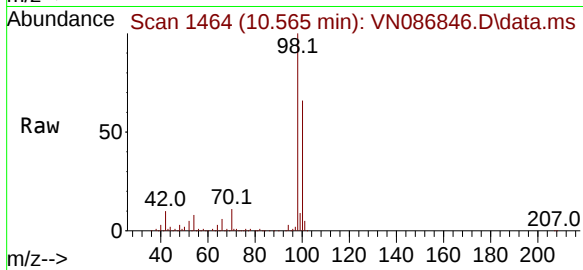




#50
Toluene-d8
Concen: 50.730 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

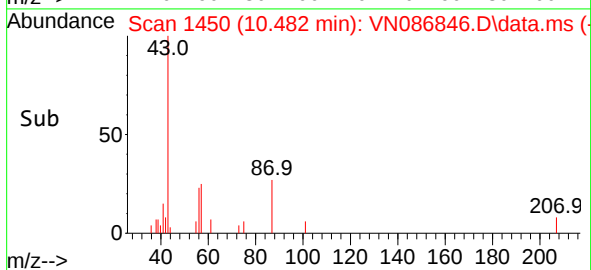
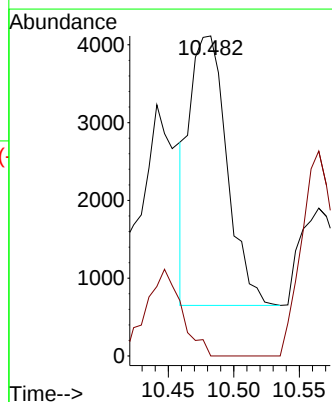
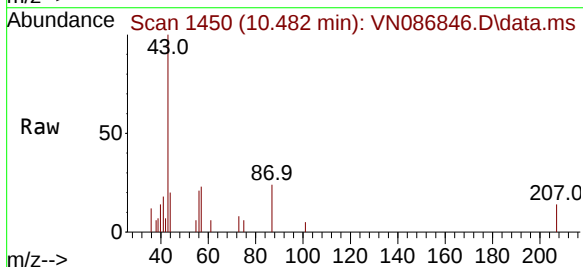
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#07

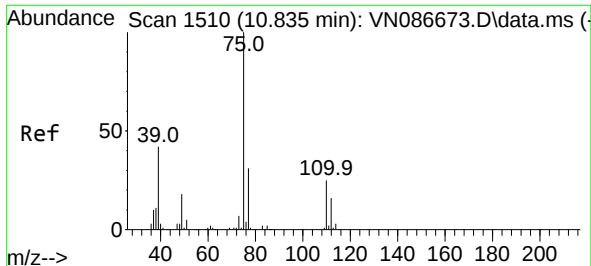
Tgt Ion: 98 Resp: 570216
Ion Ratio Lower Upper
98 100
100 66.5 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 1.685 ug/l
RT: 10.482 min Scan# 1450
Delta R.T. 0.041 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

Tgt Ion: 43 Resp: 6884
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#

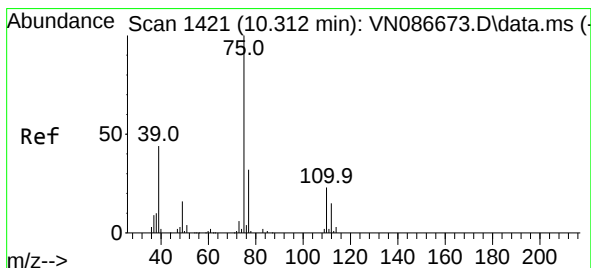
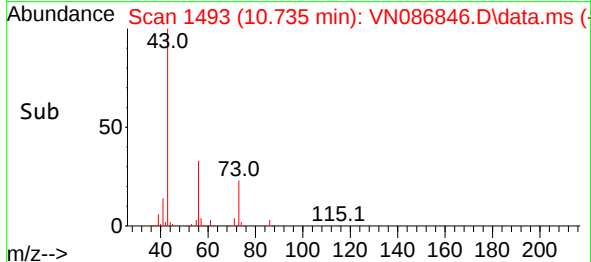
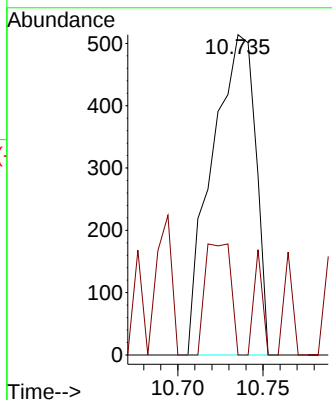
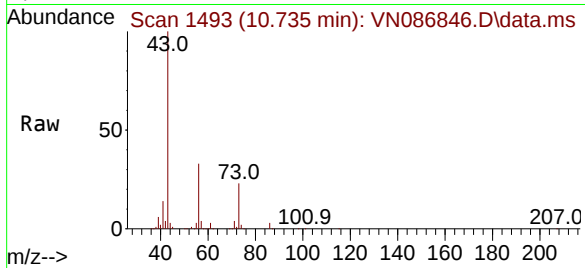




#53
 t-1,3-Dichloropropene
 Concen: 0.201 ug/l
 RT: 10.735 min Scan# 1493
 Delta R.T. -0.100 min
 Lab File: VN086846.D
 Acq: 03 Jun 2025 16:34

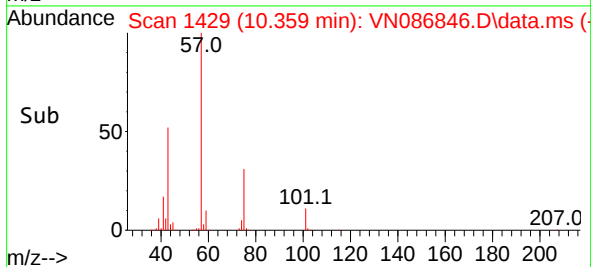
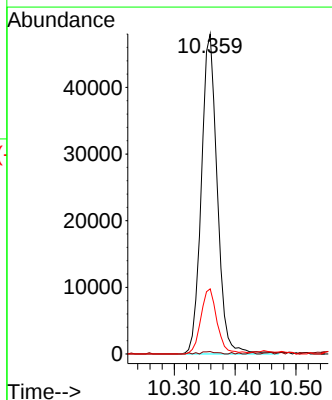
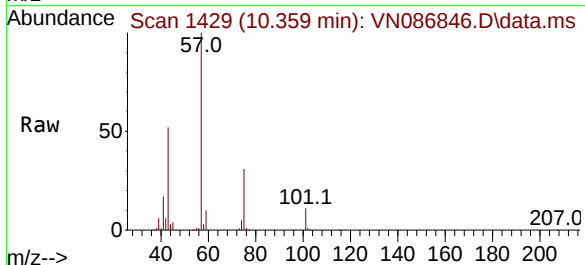
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#07

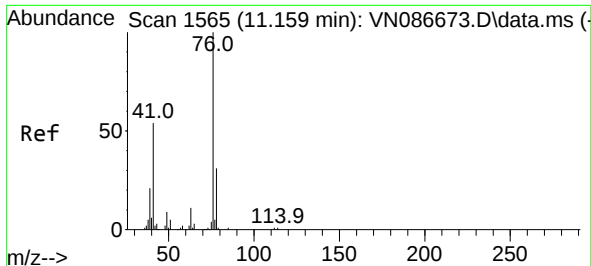
Tgt Ion: 75 Resp: 916
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.2 37.8#



#54
 cis-1,3-Dichloropropene
 Concen: 17.478 ug/l
 RT: 10.359 min Scan# 1429
 Delta R.T. 0.047 min
 Lab File: VN086846.D
 Acq: 03 Jun 2025 16:34

Tgt Ion: 75 Resp: 87077
 Ion Ratio Lower Upper
 75 100
 77 0.8 25.3 37.9#
 39 20.4 35.2 52.8#





#57

1,3-Dichloropropane

Concen: 1.073 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.047 min

Lab File: VN086846.D

Acq: 03 Jun 2025 16:34

Instrument :

MSVOA_N

ClientSampleId :

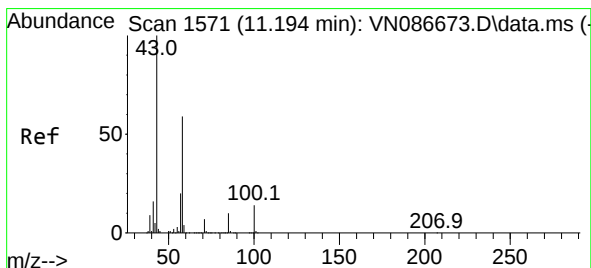
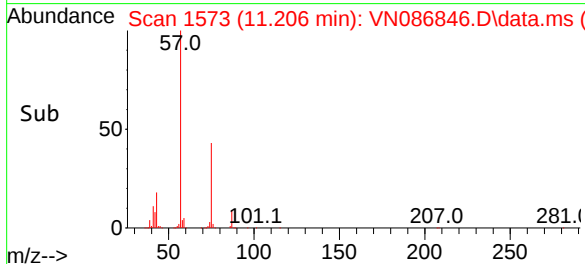
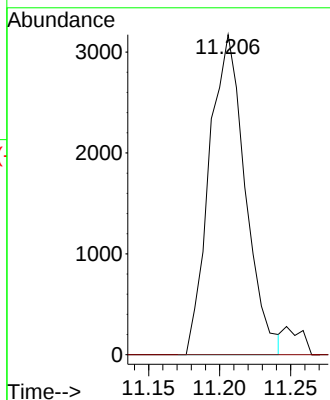
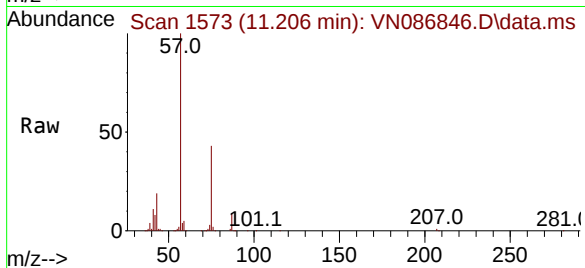
PB168225ZHE#07

Tgt Ion: 76 Resp: 5592

Ion Ratio Lower Upper

76 100

78 0.0 25.8 38.8#



#59

2-Hexanone

Concen: 29.392 ug/l

RT: 11.206 min Scan# 1573

Delta R.T. 0.012 min

Lab File: VN086846.D

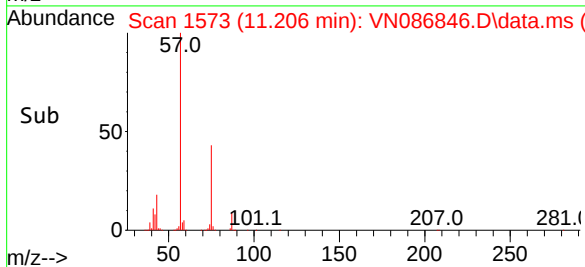
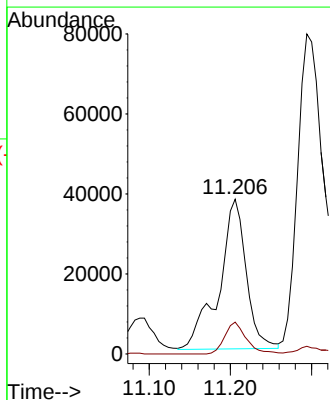
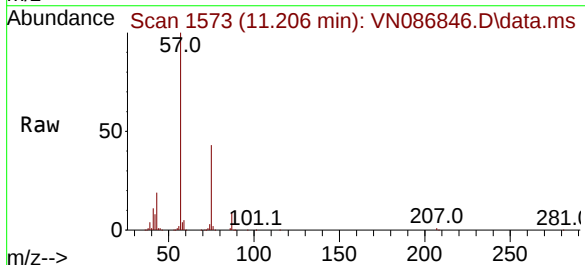
Acq: 03 Jun 2025 16:34

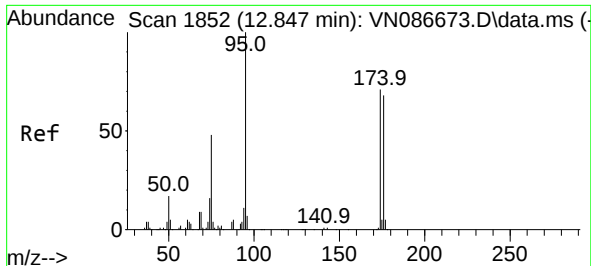
Tgt Ion: 43 Resp: 87694

Ion Ratio Lower Upper

43 100

58 16.9 29.8 89.5#

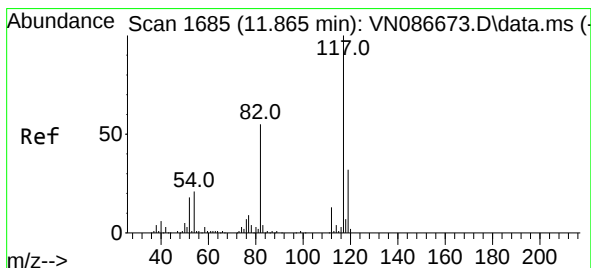
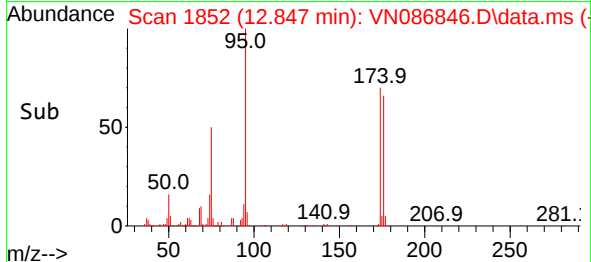
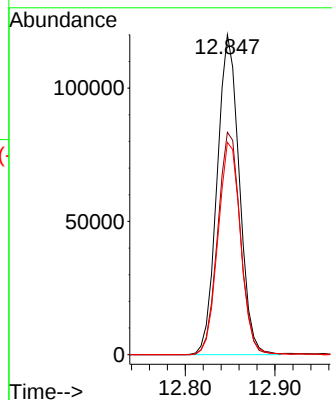
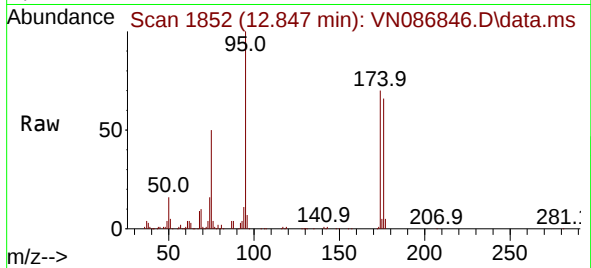




#62
4-Bromofluorobenzene
Concen: 51.986 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

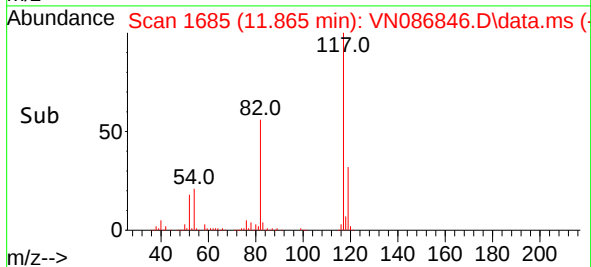
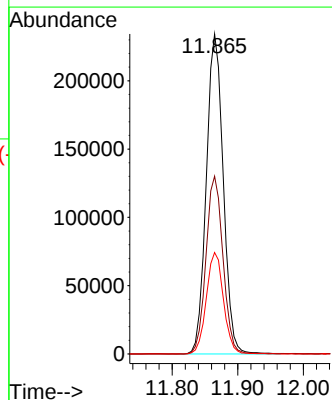
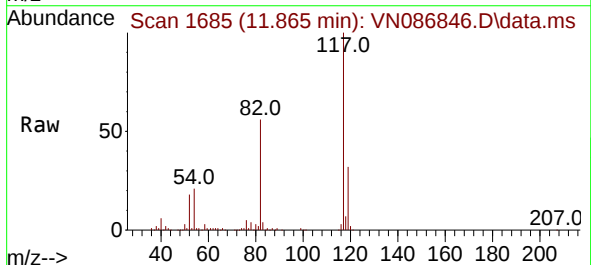
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#07

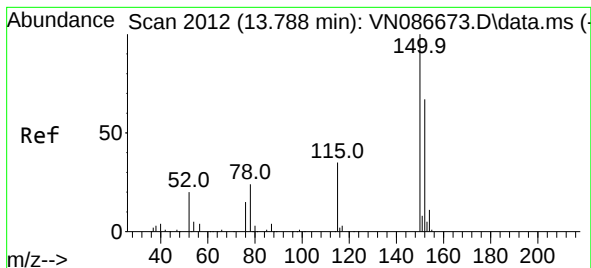
Tgt Ion: 95 Resp: 206325
Ion Ratio Lower Upper
95 100
174 71.0 0.0 145.4
176 67.7 0.0 137.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN086846.D
Acq: 03 Jun 2025 16:34

Tgt Ion: 117 Resp: 421415
Ion Ratio Lower Upper
117 100
82 55.4 44.2 66.2
119 31.7 25.4 38.2

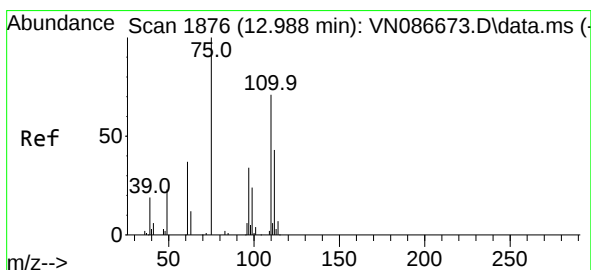
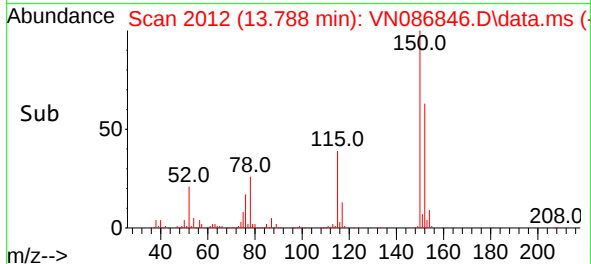
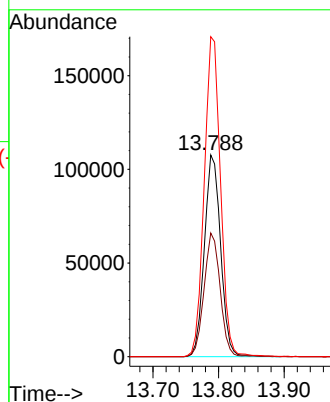
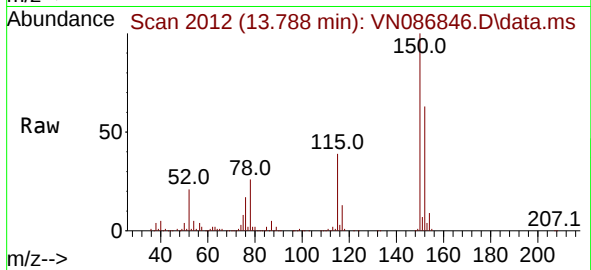




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN086846.D
 Acq: 03 Jun 2025 16:34

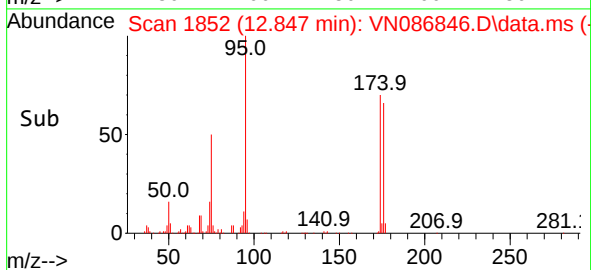
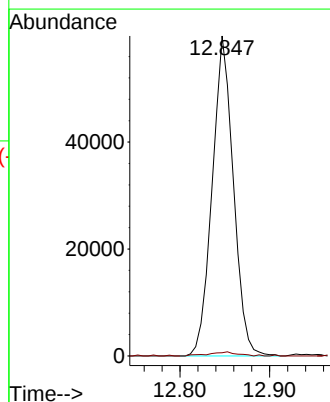
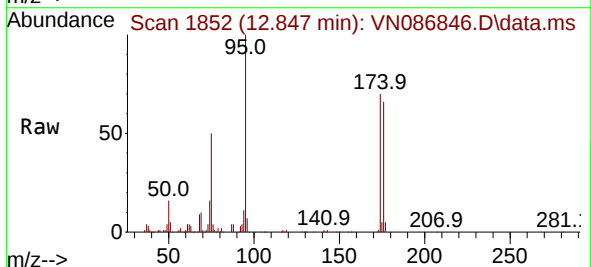
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#07

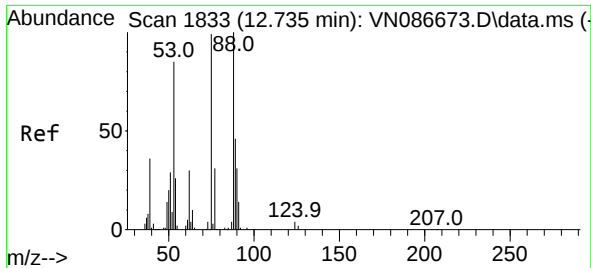
Tgt Ion:152 Resp: 186046
 Ion Ratio Lower Upper
 152 100
 115 60.9 30.0 90.1
 150 159.0 0.0 347.8



#76
 1,2,3-Trichloropropane
 Concen: 23.355 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.141 min
 Lab File: VN086846.D
 Acq: 03 Jun 2025 16:34

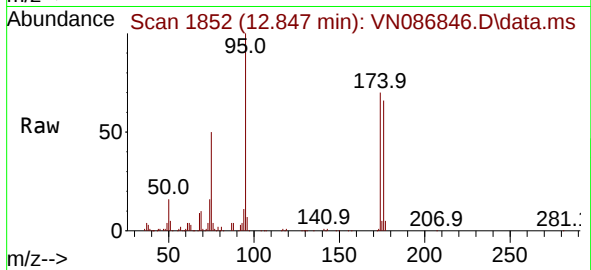
Tgt Ion: 75 Resp: 98267
 Ion Ratio Lower Upper
 75 100
 77 1.7 96.0 288.1#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 58.939 ug/l
 RT: 12.847 min Scan# 11
 Delta R.T. 0.112 min
 Lab File: VN086846.D
 Acq: 03 Jun 2025 16:34

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#07



Tgt Ion: 75 Resp: 98267
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.0 32.4 48.6#

