

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN041825\
 Data File : VN086339.D
 Acq On : 18 Apr 2025 13:19
 Operator : JC\MD
 Sample : PB167623ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167623ZHE#04

Quant Time: Apr 19 02:23:54 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N041525W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 16 04:19:23 2025
 Response via : Initial Calibration

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

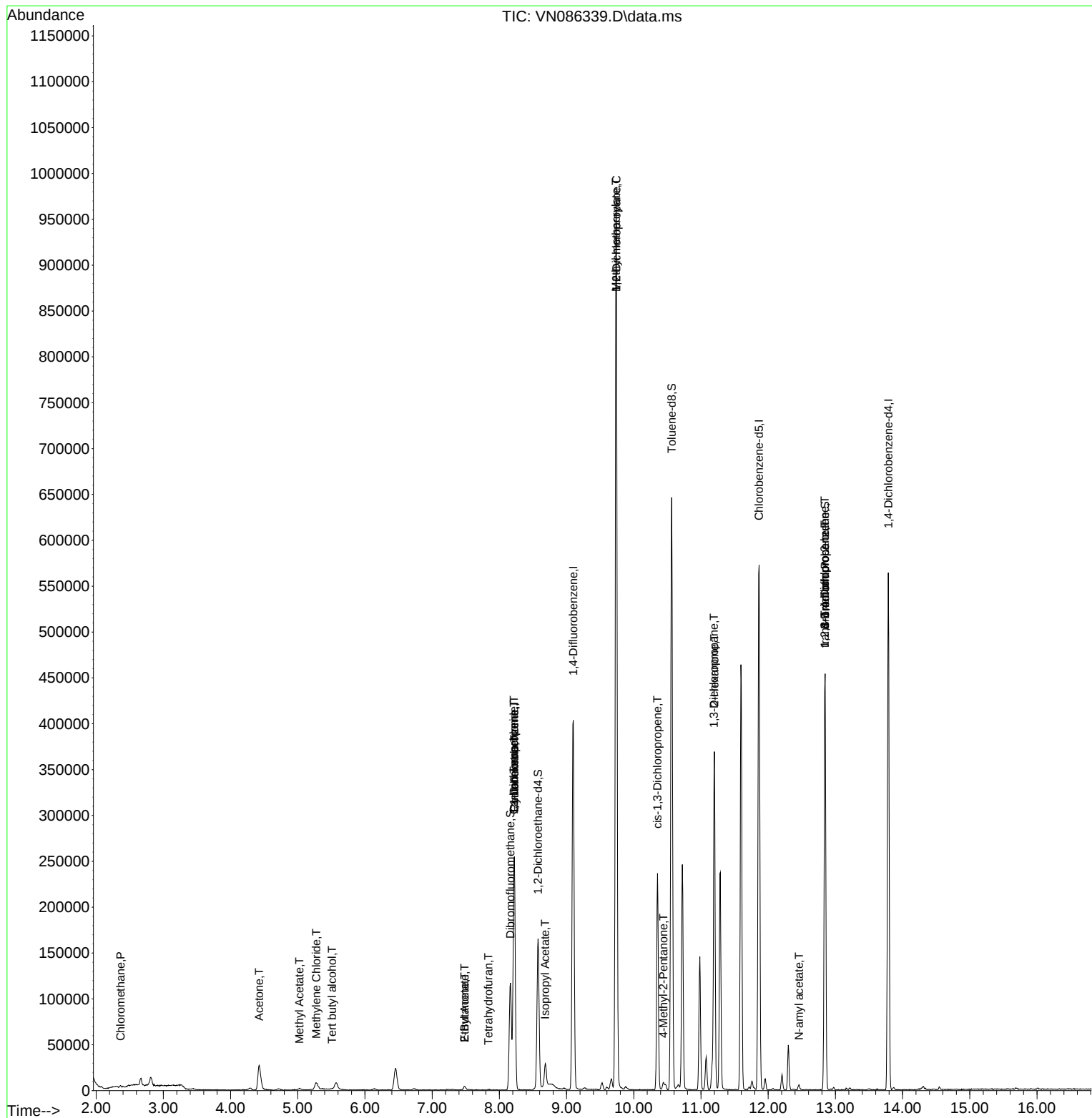
Internal Standards						
1) Pentafluorobenzene	8.224	168	187573	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	362092	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	341990	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	150375	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	135998	50.000	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 100.000%	
35) Dibromofluoromethane	8.165	113	86673	51.575	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 103.160%	
50) Toluene-d8	10.565	98	458987	51.104	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.200%	
62) 4-Bromofluorobenzene	12.847	95	169559	51.759	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 103.520%	
Target Compounds						
					Qvalue	
3) Chloromethane	2.365	50	1071	0.331	ug/l #	82
11) Tert butyl alcohol	5.512	59	885	1.783	ug/l #	72
13) Acrolein	4.189	56	177	Below Cal	#	49
16) Acetone	4.424	43	53734	52.634	ug/l	99
18) Methyl Acetate	5.024	43	3877	1.187	ug/l #	80
20) Methylene Chloride	5.277	84	6329	2.517	ug/l #	83
25) 2-Butanone	7.483	43	6916	4.085	ug/l	94
29) Tetrahydrofuran	7.836	42	635	0.561	ug/l #	32
31) Cyclohexane	8.224	56	4465	1.013	ug/l #	18
36) 1,1-Dichloropropene	8.218	75	15882	4.732	ug/l #	50
37) Ethyl Acetate	7.483	43	6916	1.957	ug/l #	68
38) Carbon Tetrachloride	8.218	117	19584	6.127	ug/l #	16
43) Isopropyl Acetate	8.683	43	39011	4.365	ug/l #	84
45) 1,2-Dichloropropane	9.741	63	1083	0.411	ug/l #	43
48) Methyl methacrylate	9.735	41	87087	28.063	ug/l #	42
51) 4-Methyl-2-Pentanone	10.441	43	4812	1.330	ug/l #	86
54) cis-1,3-Dichloropropene	10.353	75	43927	9.890	ug/l #	56
57) 1,3-Dichloropropane	11.194	76	3928	0.917	ug/l #	43
59) 2-Hexanone	11.200	43	72428	26.985	ug/l #	42
71) Bromoform	12.847	173	927	0.489	ug/l #	1
74) N-amyl acetate	12.459	43	4471	0.730	ug/l #	45
76) 1,2,3-Trichloropropane	12.841	75	85445	24.078	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.841	75	85445	57.827	ug/l #	10

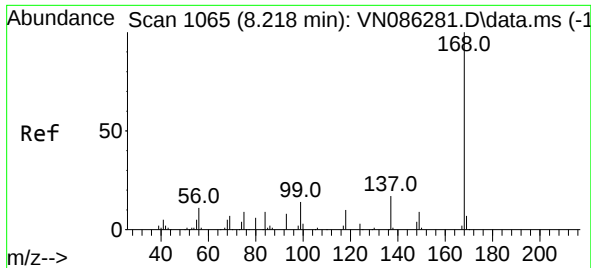
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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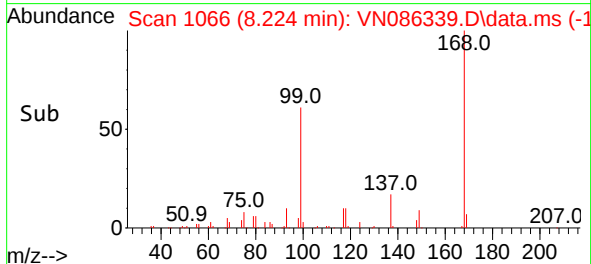
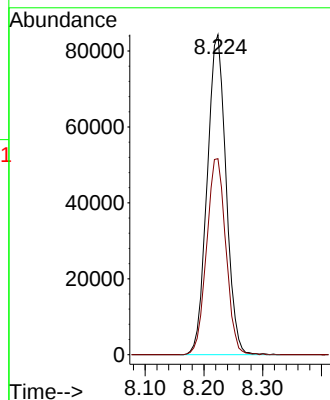
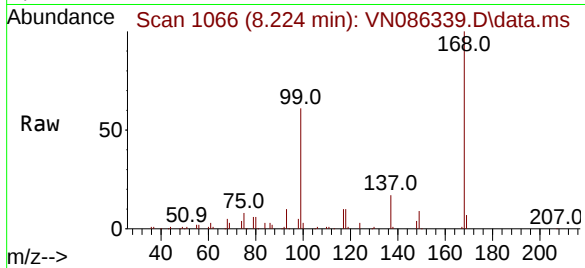




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 1
Delta R.T. 0.006 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

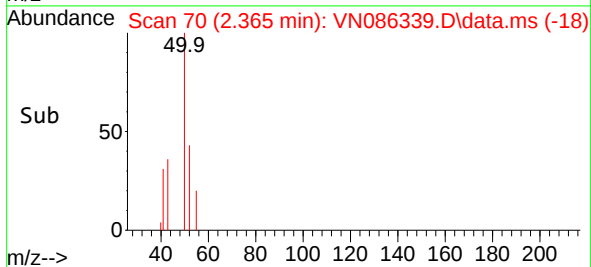
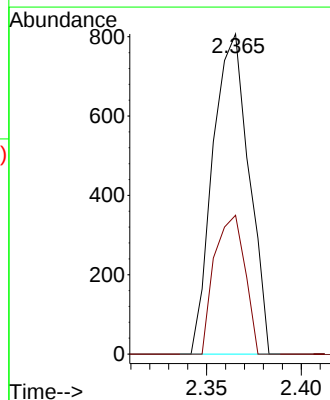
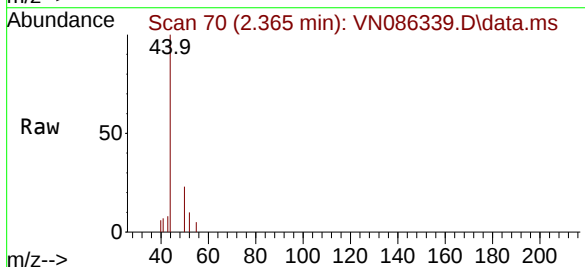
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#04

Tgt Ion:168 Resp: 187573
Ion Ratio Lower Upper
168 100
99 61.2 52.5 78.7



#3
Chloromethane
Concen: 0.331 ug/l
RT: 2.365 min Scan# 70
Delta R.T. 0.006 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

Tgt Ion: 50 Resp: 1071
Ion Ratio Lower Upper
50 100
52 43.4 26.5 39.7#

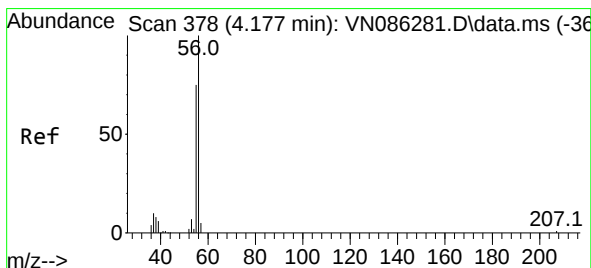
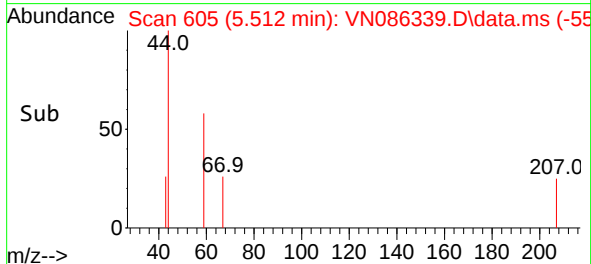
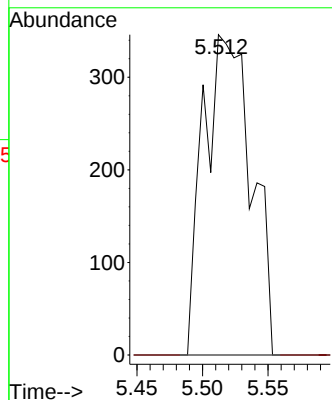
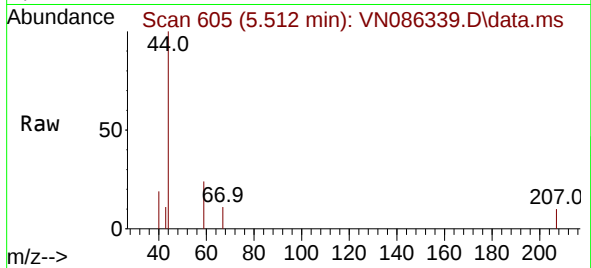




#11
Tert butyl alcohol
Concen: 1.783 ug/l
RT: 5.512 min Scan# 605
Delta R.T. 0.000 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

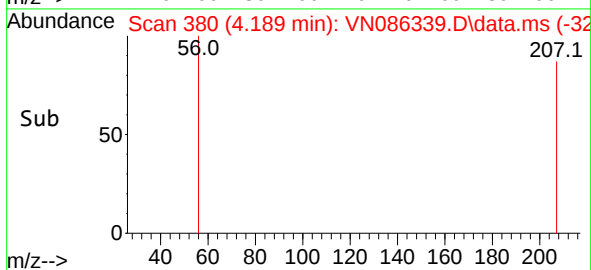
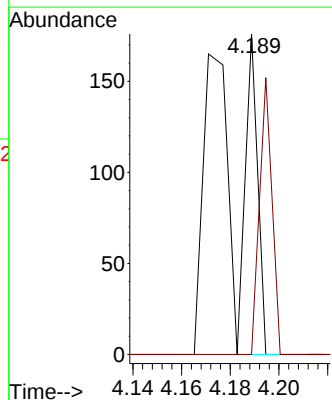
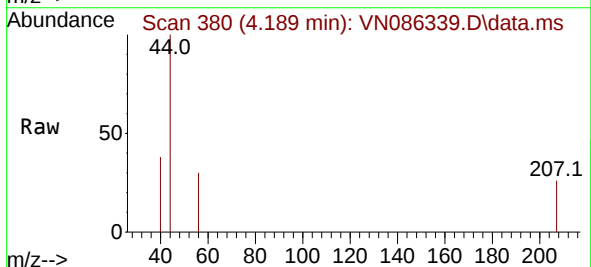
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#04

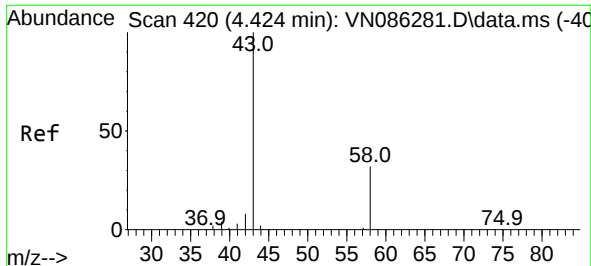
Tgt Ion: 59 Resp: 885
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#



#13
Acrolein
Concen: Below Cal
RT: 4.189 min Scan# 380
Delta R.T. 0.012 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

Tgt Ion: 56 Resp: 177
Ion Ratio Lower Upper
56 100
55 30.5 58.5 87.7#

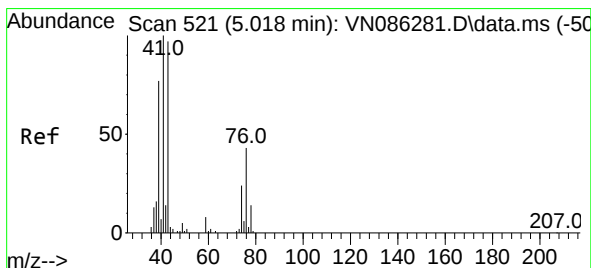
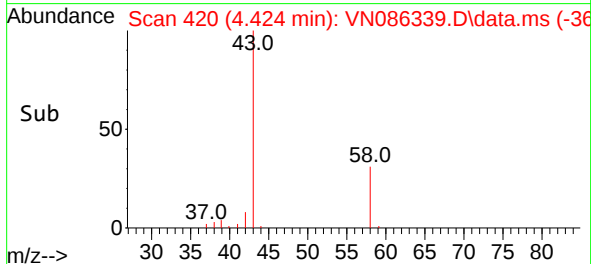
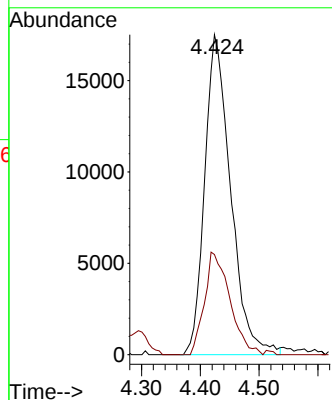
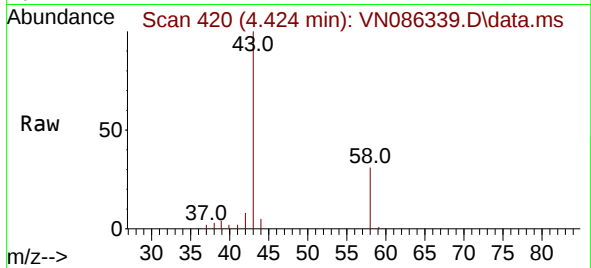




#16
Acetone
Concen: 52.634 ug/l
RT: 4.424 min Scan# 41
Delta R.T. 0.000 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

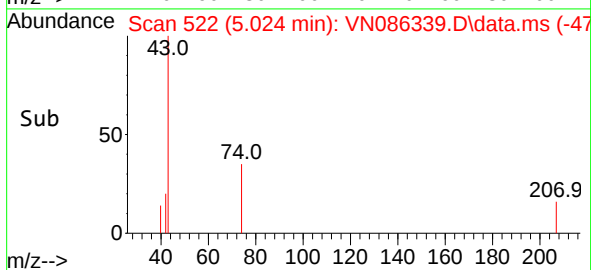
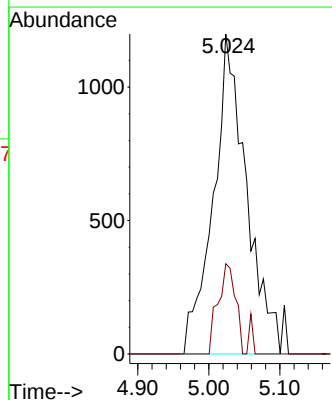
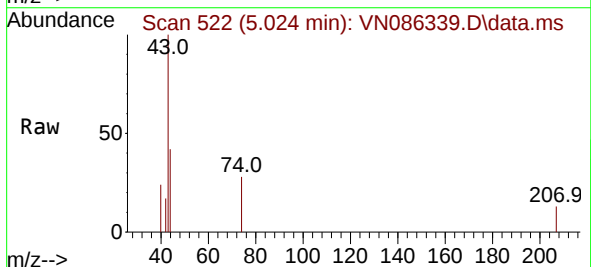
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#04

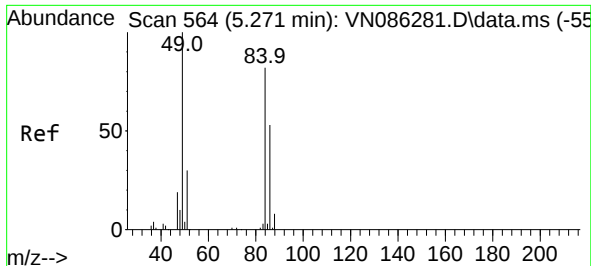
Tgt Ion: 43 Resp: 53734
Ion Ratio Lower Upper
43 100
58 31.3 25.3 37.9



#18
Methyl Acetate
Concen: 1.187 ug/l
RT: 5.024 min Scan# 522
Delta R.T. 0.006 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

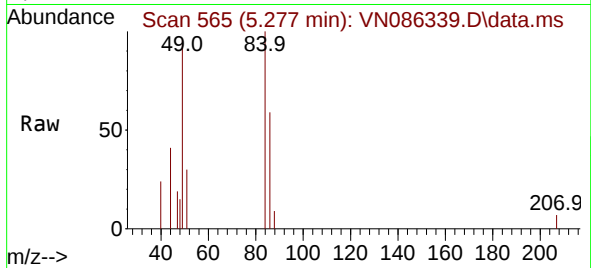
Tgt Ion: 43 Resp: 3877
Ion Ratio Lower Upper
43 100
74 14.9 19.8 29.6#



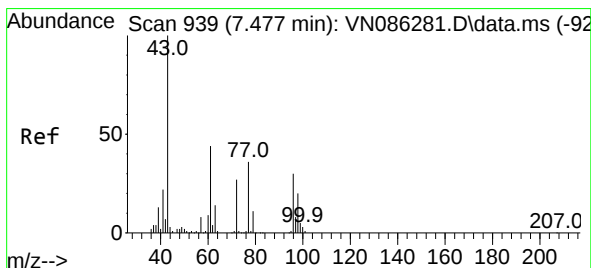
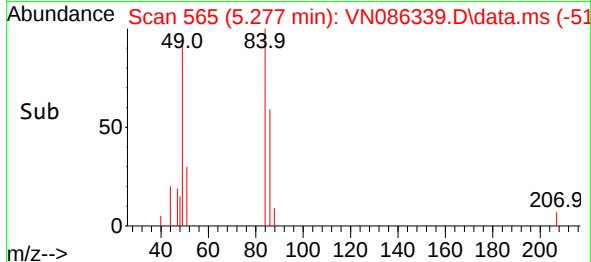
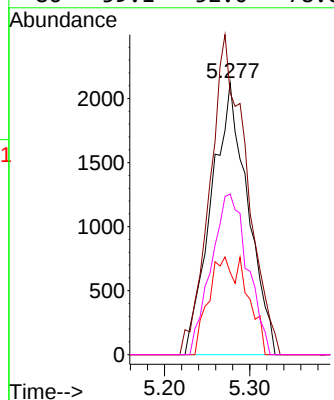


#20
Methylene Chloride
Concen: 2.517 ug/l
RT: 5.277 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#04

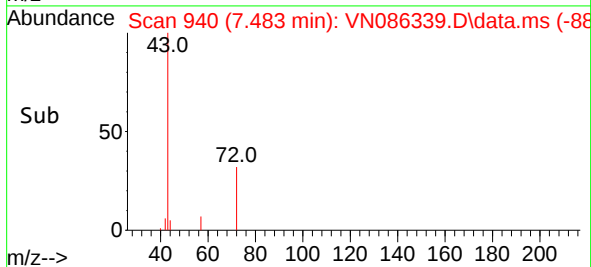
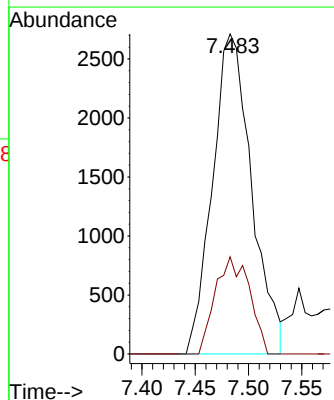
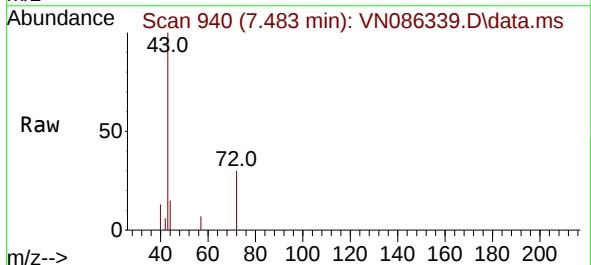


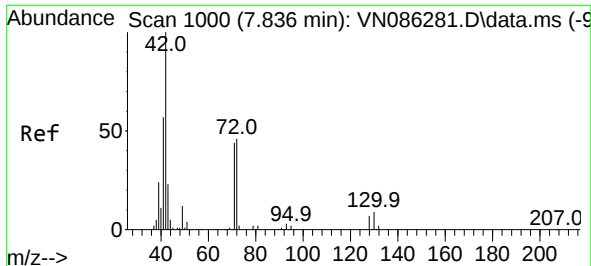
Tgt Ion: 84	Resp: 6329
Ion Ratio	Lower Upper
84 100	
49 96.4	98.2 147.2#
51 30.3	29.8 44.6
86 59.1	52.0 78.0



#25
2-Butanone
Concen: 4.085 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

Tgt Ion: 43	Resp: 6916
Ion Ratio	Lower Upper
43 100	
72 30.3	21.7 32.5





#29

Tetrahydrofuran

Concen: 0.561 ug/l

RT: 7.836 min Scan# 1066

Delta R.T. 0.000 min

Lab File: VN086339.D

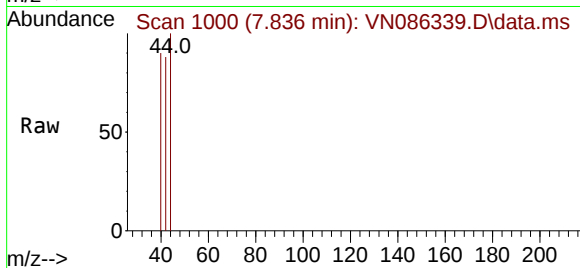
Acq: 18 Apr 2025 13:19

Instrument :

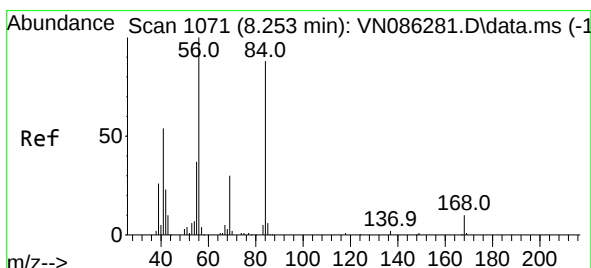
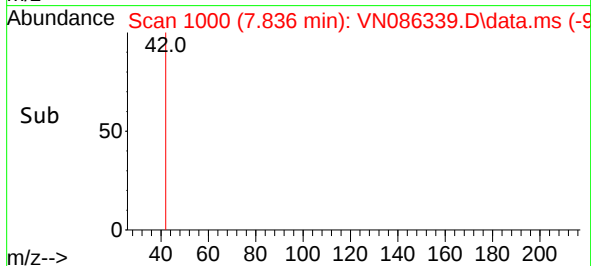
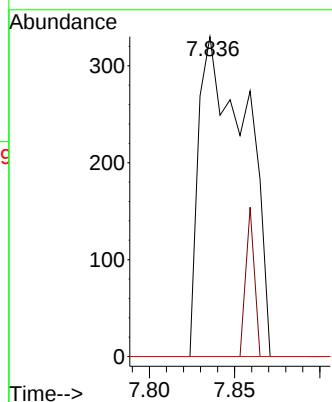
MSVOA_N

ClientSampleId :

PB167623ZHE#04



Tgt Ion:	42	Resp:	635
Ion Ratio	Lower	Upper	
42	100		
72	0.0	36.2	54.4#
71	0.0	34.0	51.0#



#31

Cyclohexane

Concen: 1.013 ug/l

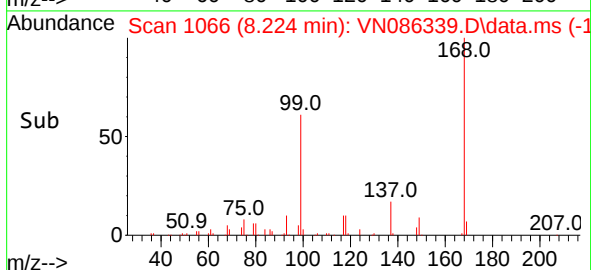
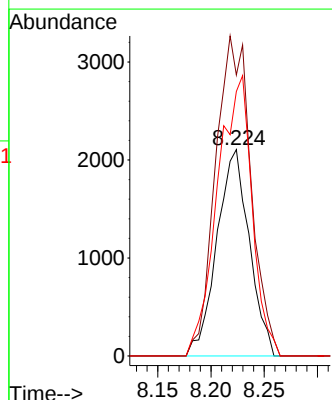
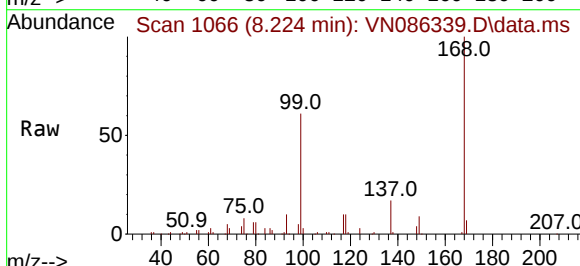
RT: 8.224 min Scan# 1066

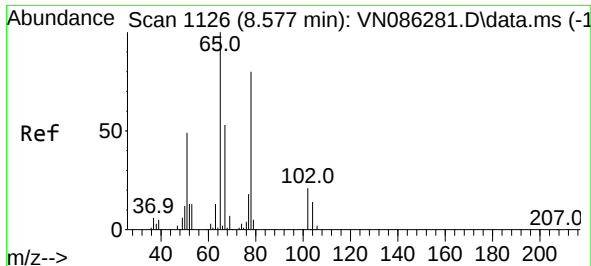
Delta R.T. -0.029 min

Lab File: VN086339.D

Acq: 18 Apr 2025 13:19

Tgt Ion:	56	Resp:	4465
Ion Ratio	Lower	Upper	
56	100		
69	136.1	24.2	36.2#
84	128.1	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 50.000 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. 0.000 min

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Acq: 18 Apr 2025 13:19

Instrument :

MSVOA_N

ClientSampleId :

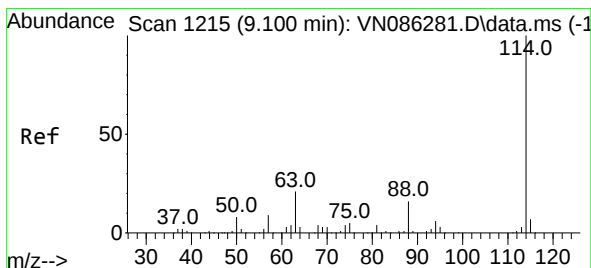
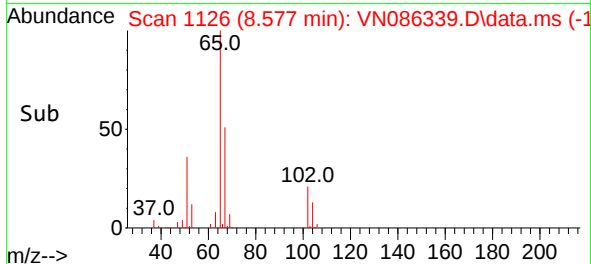
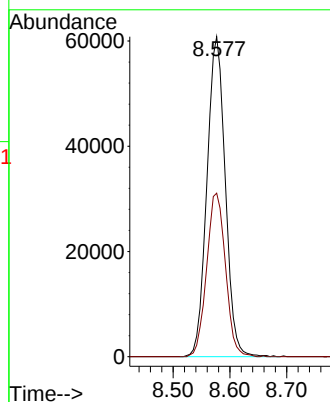
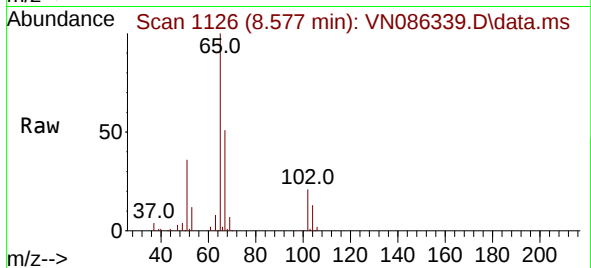
PB167623ZHE#04

Tgt Ion: 65 Resp: 135998

Ion Ratio Lower Upper

65 100

67 52.5 0.0 106.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.000 min

Lab File: VN086339.D

Acq: 18 Apr 2025 13:19

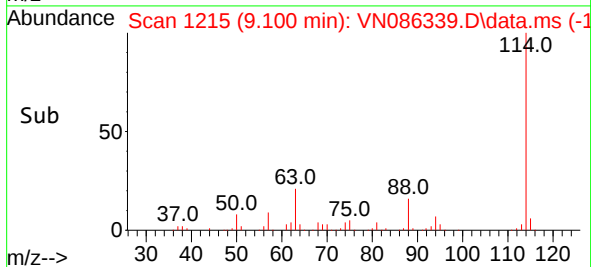
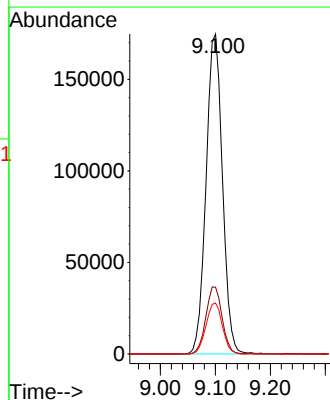
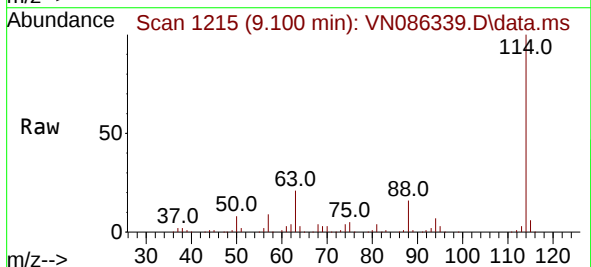
Tgt Ion: 114 Resp: 362092

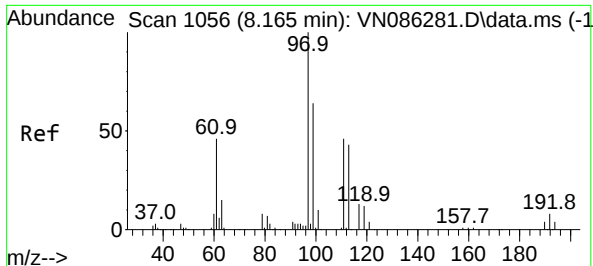
Ion Ratio Lower Upper

114 100

63 20.9 0.0 42.6

88 15.9 0.0 31.8





#35

Dibromofluoromethane

Concen: 51.575 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.000 min

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Instrument :

MSVOA_N

ClientSampleId :

PB167623ZHE#04

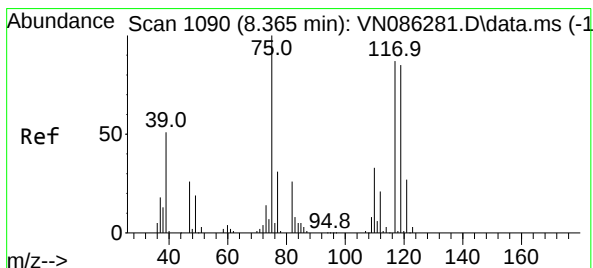
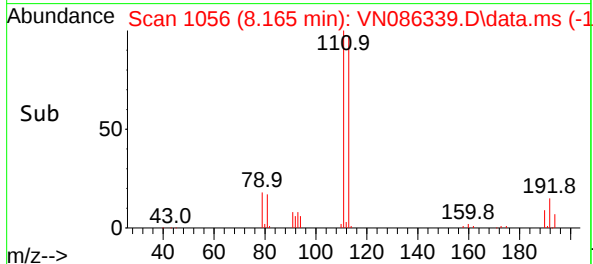
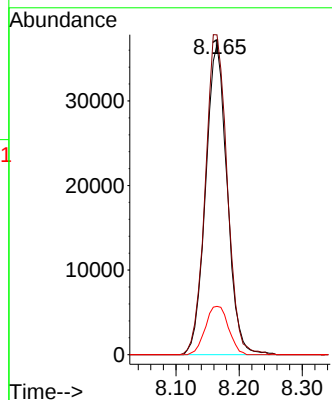
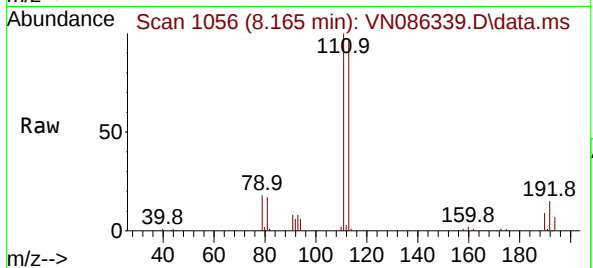
Tgt Ion:113 Resp: 86673

Ion Ratio Lower Upper

113 100

111 105.4 83.4 125.0

192 16.7 13.7 20.5



#36

1,1-Dichloropropene

Concen: 4.732 ug/l

RT: 8.218 min Scan# 1065

Delta R.T. -0.147 min

Lab File: VN086339.D

Acq: 18 Apr 2025 13:19

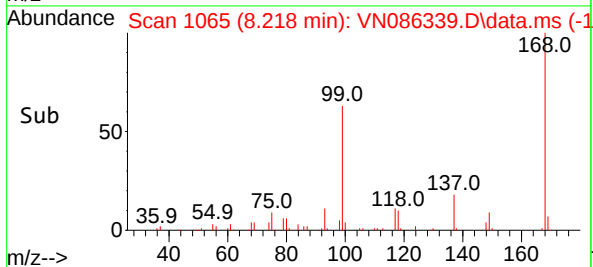
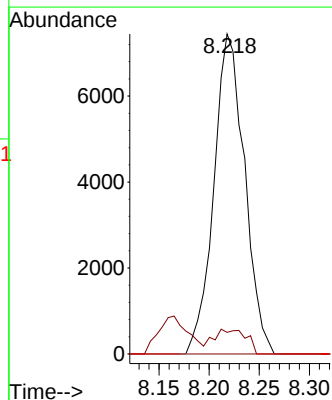
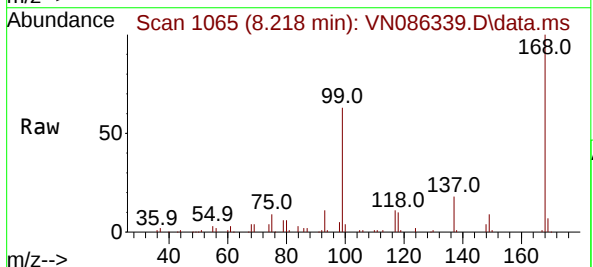
Tgt Ion: 75 Resp: 15882

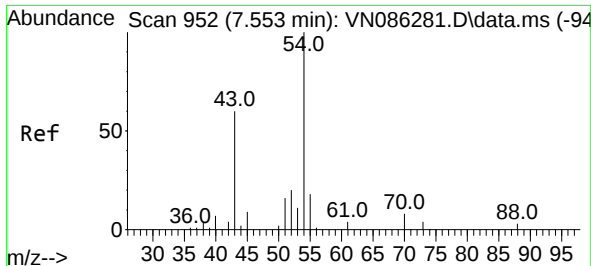
Ion Ratio Lower Upper

75 100

110 8.2 16.8 50.4#

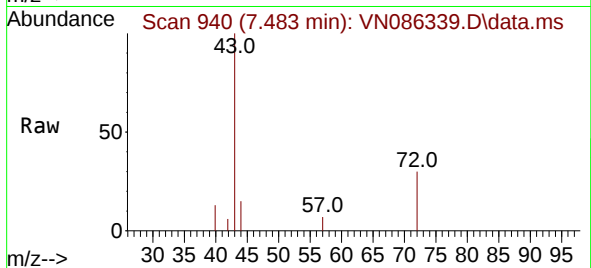
77 0.0 24.9 37.3#



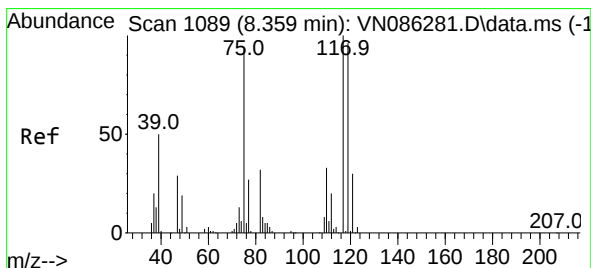
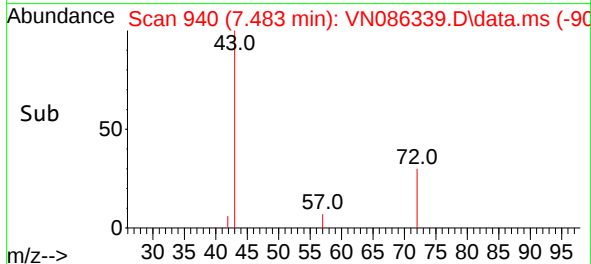
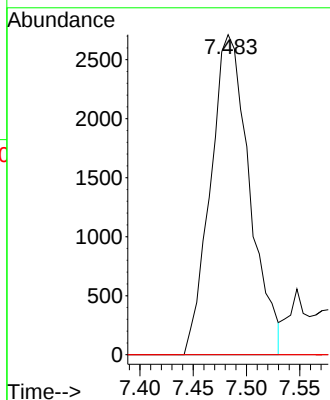


#37
Ethyl Acetate
Concen: 1.957 ug/l
RT: 7.483 min Scan# 941
Delta R.T. -0.071 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#04

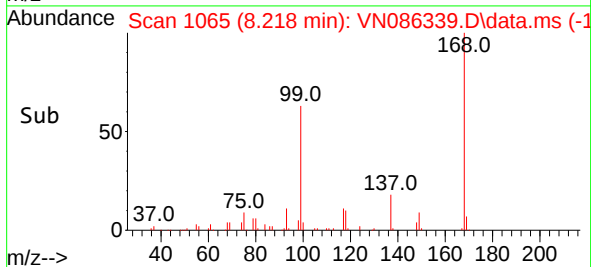
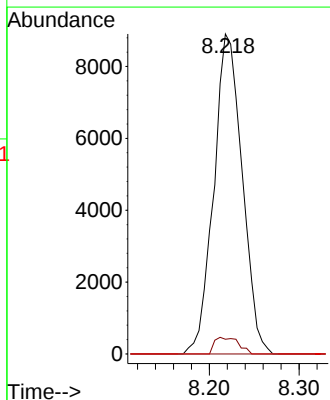
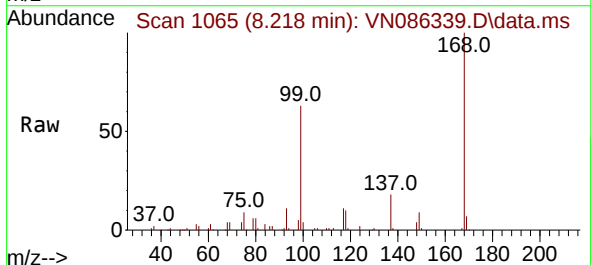


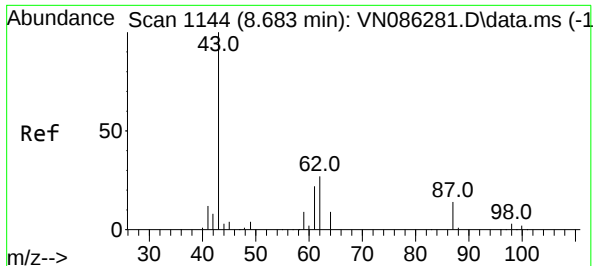
Tgt Ion: 43 Resp: 6916
Ion Ratio Lower Upper
43 100
61 0.0 11.1 16.7#
70 0.0 9.2 13.8#



#38
Carbon Tetrachloride
Concen: 6.127 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

Tgt Ion: 117 Resp: 19584
Ion Ratio Lower Upper
117 100
119 4.6 76.8 115.2#
121 0.0 23.8 35.8#

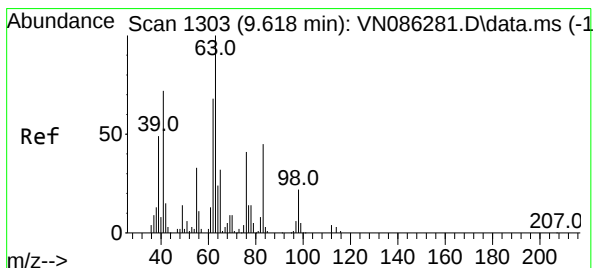
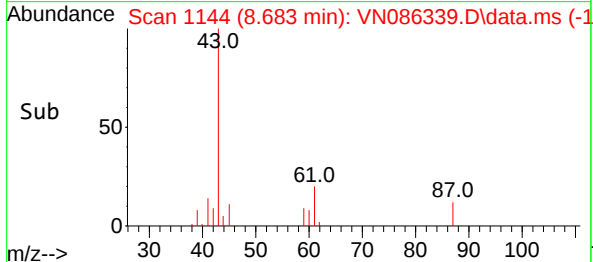
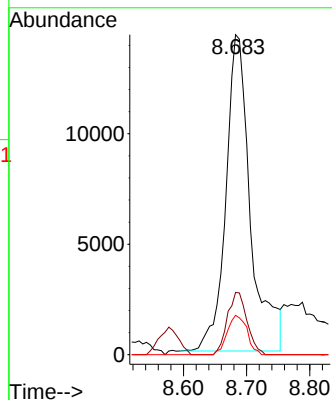
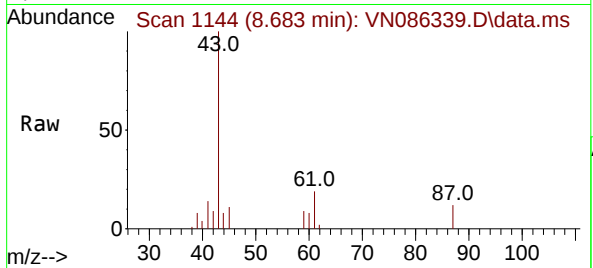




#43
Isopropyl Acetate
Concen: 4.365 ug/l
RT: 8.683 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

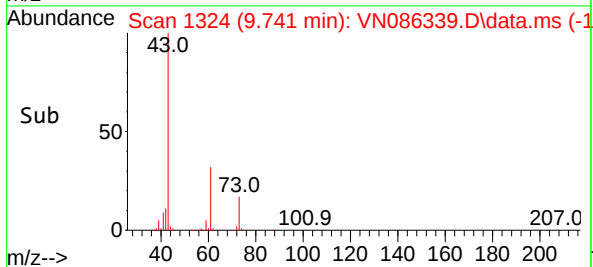
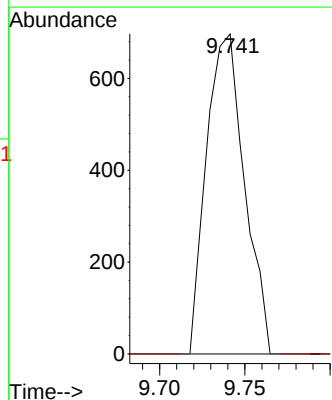
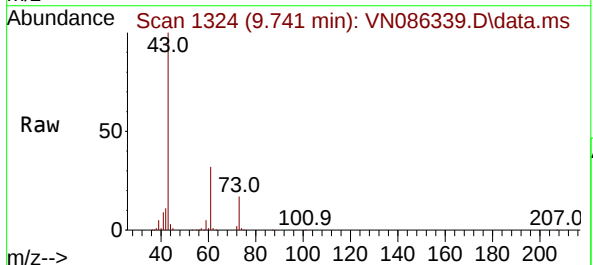
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#04

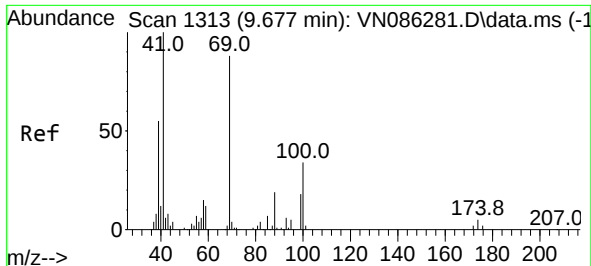
Tgt Ion: 43 Resp: 39011
Ion Ratio Lower Upper
43 100
61 15.7 20.5 30.7#
87 9.9 10.5 15.7#



#45
1,2-Dichloropropane
Concen: 0.411 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.124 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

Tgt Ion: 63 Resp: 1083
Ion Ratio Lower Upper
63 100
65 0.0 25.4 38.2#

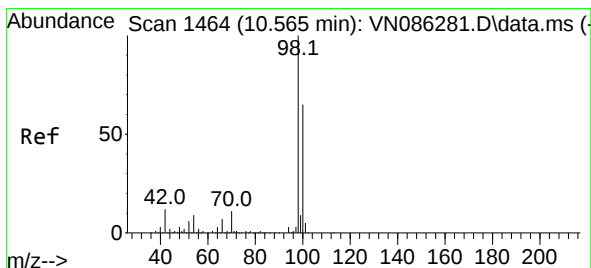
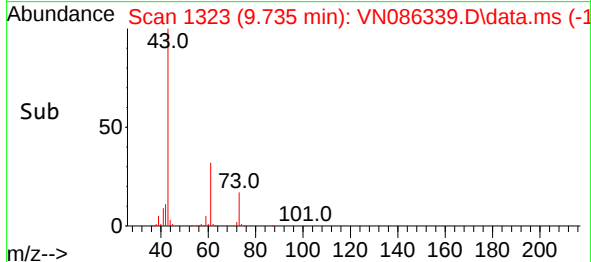
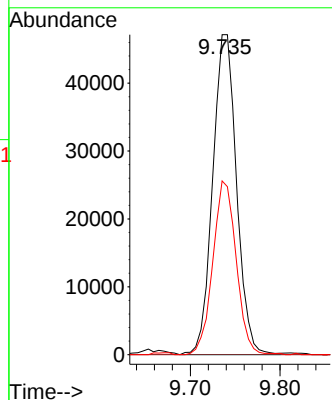
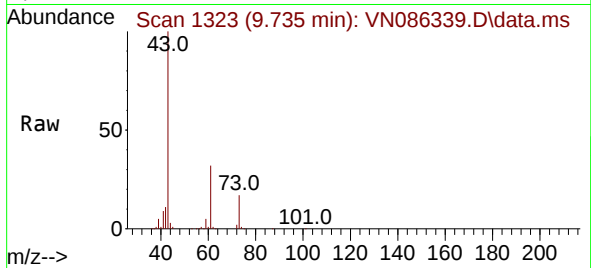




#48
Methyl methacrylate
Concen: 28.063 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.059 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

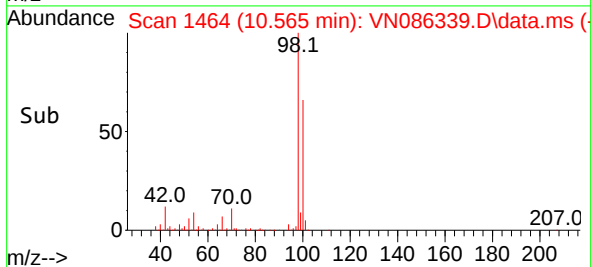
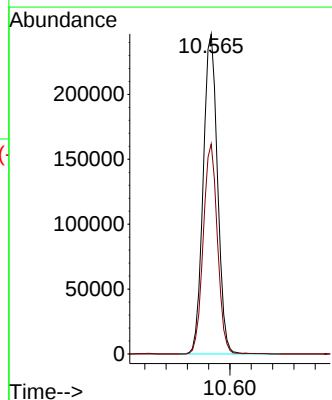
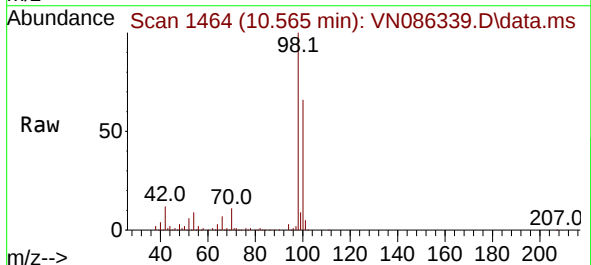
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#04

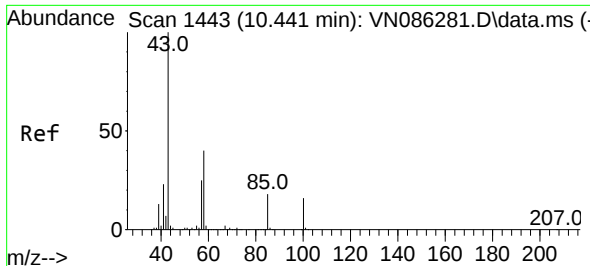
Tgt Ion: 41 Resp: 87087
Ion Ratio Lower Upper
41 100
69 0.0 68.2 102.2#
39 53.2 45.2 67.8



#50
Toluene-d8
Concen: 51.104 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. 0.000 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

Tgt Ion: 98 Resp: 458987
Ion Ratio Lower Upper
98 100
100 65.1 52.5 78.7

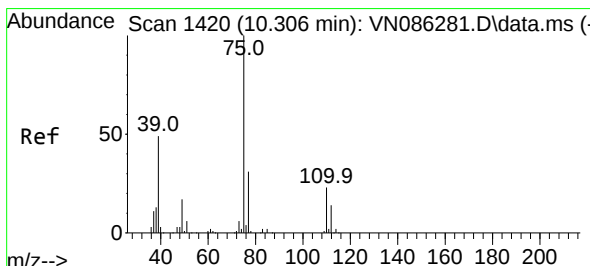
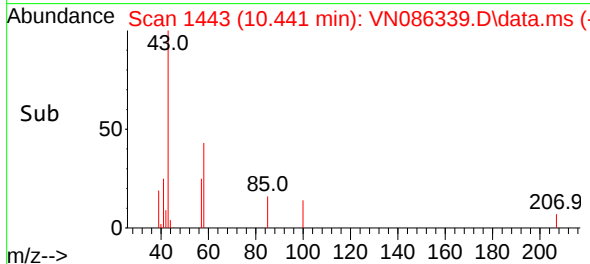
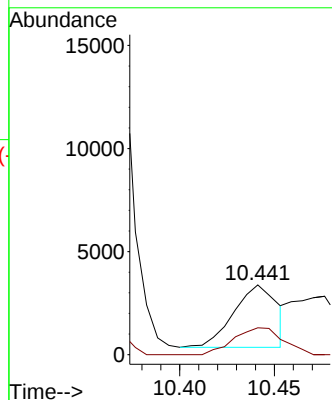
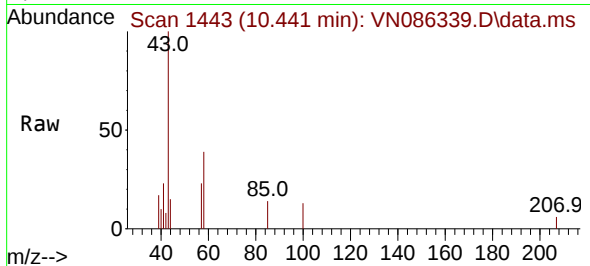




#51
4-Methyl-2-Pentanone
Concen: 1.330 ug/l
RT: 10.441 min Scan# 1443
Delta R.T. 0.000 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

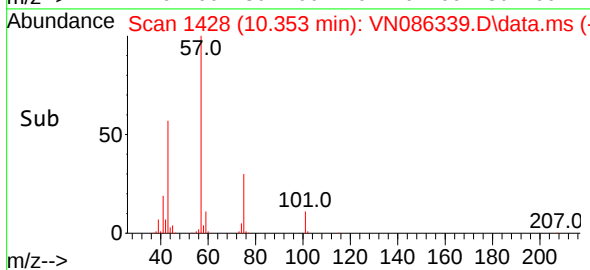
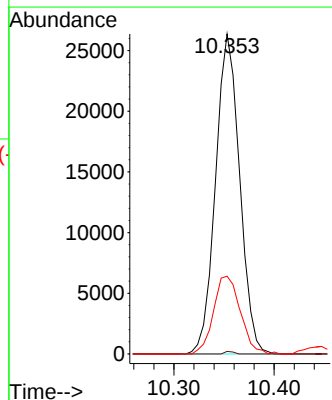
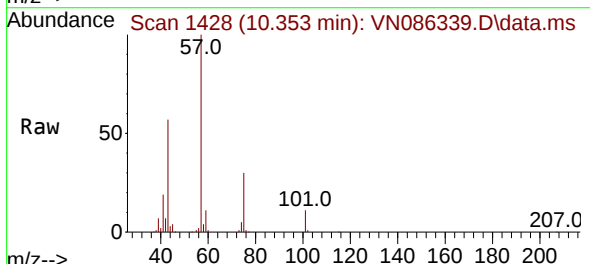
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#04

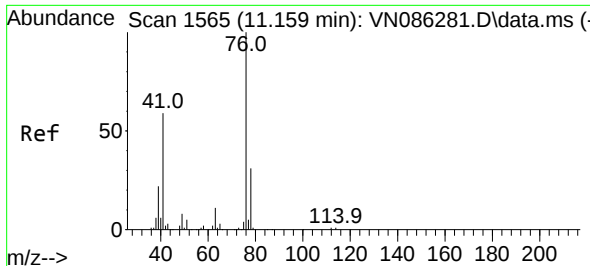
Tgt Ion: 43 Resp: 4812
Ion Ratio Lower Upper
43 100
58 49.0 32.2 48.4#



#54
cis-1,3-Dichloropropene
Concen: 9.890 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

Tgt Ion: 75 Resp: 43927
Ion Ratio Lower Upper
75 100
77 0.8 25.2 37.8#
39 24.3 39.3 58.9#





#57

1,3-Dichloropropane

Concen: 0.917 ug/l

RT: 11.194 min Scan# 1571

Delta R.T. 0.035 min

Lab File: VN086339.D

Acq: 18 Apr 2025 13:19

Instrument :

MSVOA_N

ClientSampleId :

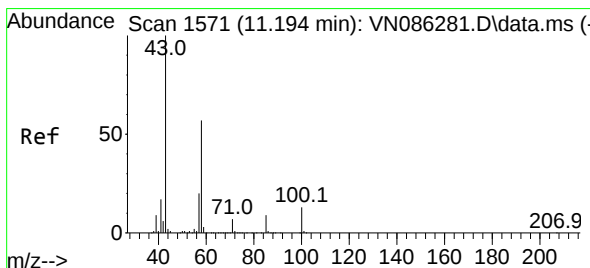
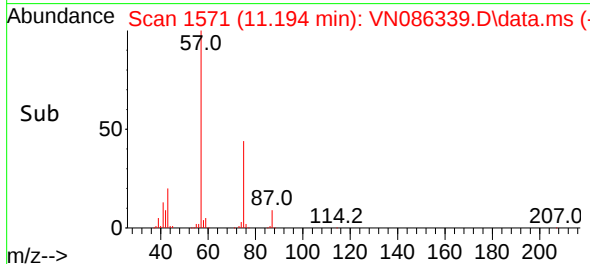
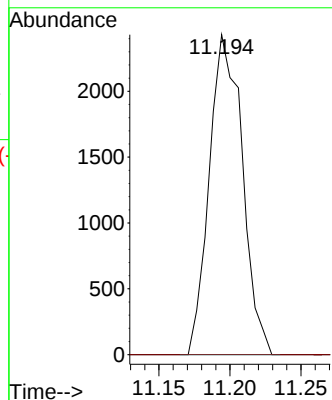
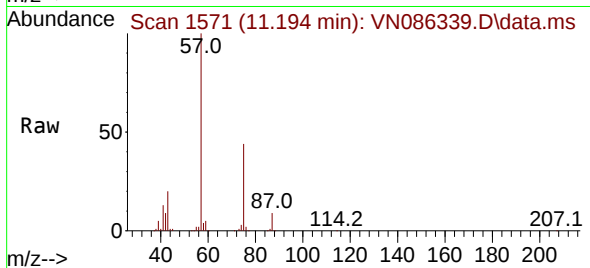
PB167623ZHE#04

Tgt Ion: 76 Resp: 3928

Ion Ratio Lower Upper

76 100

78 0.0 25.6 38.4#



#59

2-Hexanone

Concen: 26.985 ug/l

RT: 11.200 min Scan# 1572

Delta R.T. 0.006 min

Lab File: VN086339.D

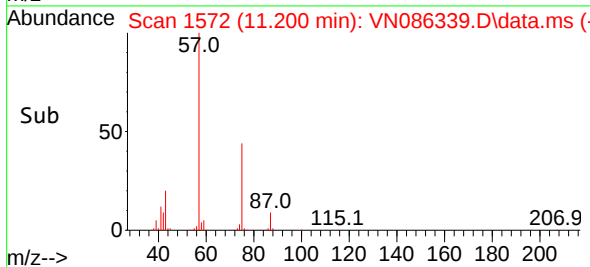
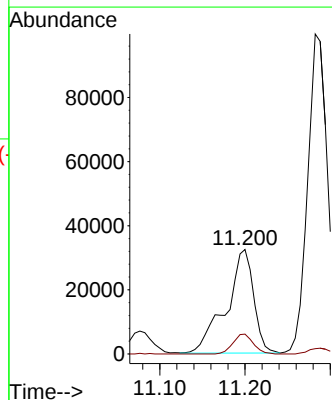
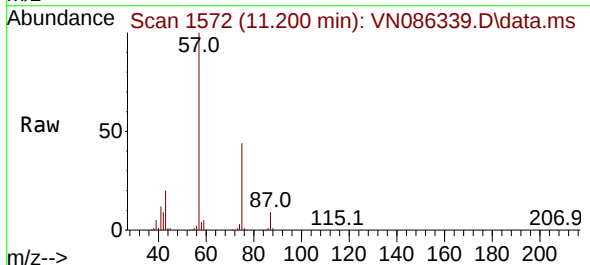
Acq: 18 Apr 2025 13:19

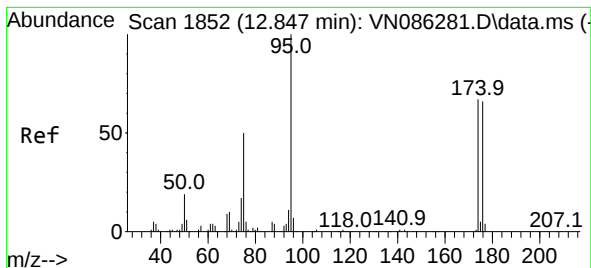
Tgt Ion: 43 Resp: 72428

Ion Ratio Lower Upper

43 100

58 14.2 28.3 85.0#

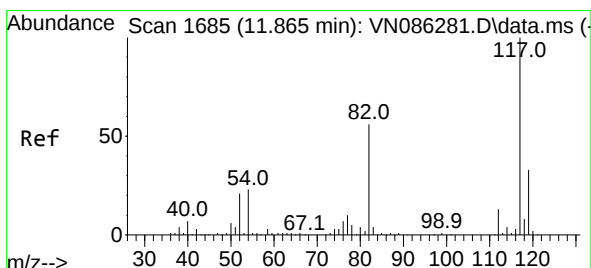
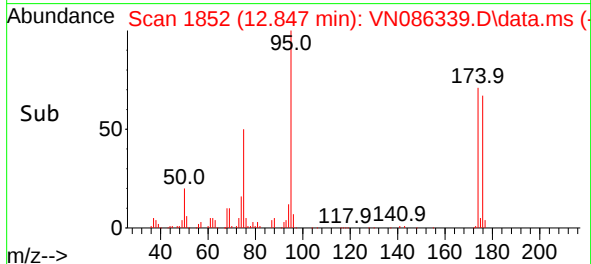
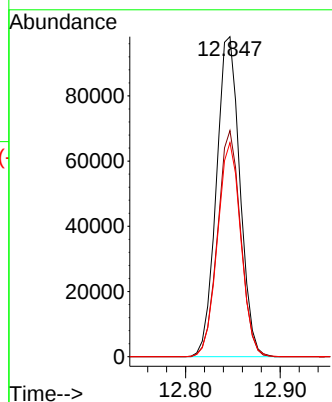
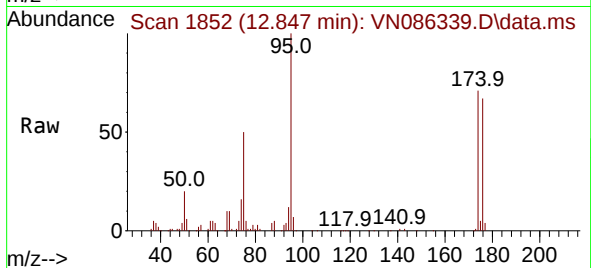




#62
4-Bromofluorobenzene
Concen: 51.759 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

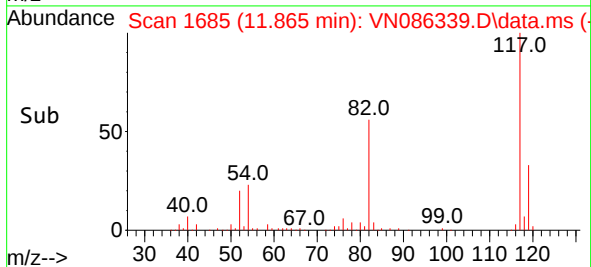
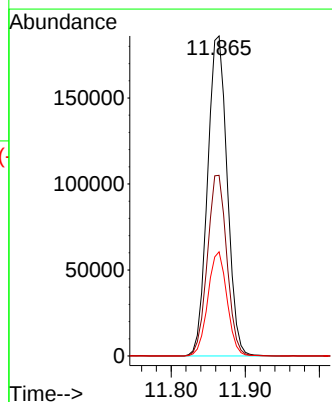
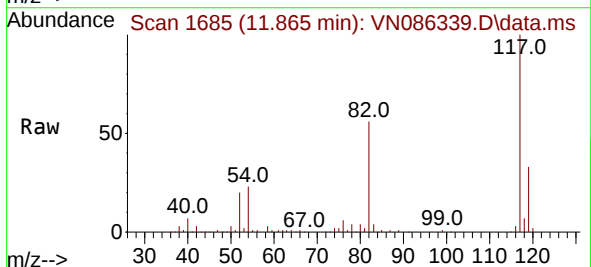
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#04

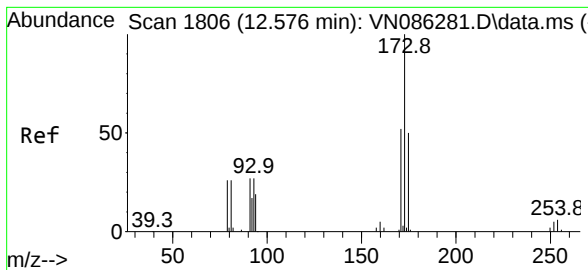
Tgt Ion: 95 Resp: 169559
Ion Ratio Lower Upper
95 100
174 69.2 0.0 133.4
176 66.6 0.0 129.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.000 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

Tgt Ion: 117 Resp: 341990
Ion Ratio Lower Upper
117 100
82 56.4 44.7 67.1
119 32.5 26.4 39.6





#71

Bromoform

Concen: 0.489 ug/l

RT: 12.847 min Scan# 1806

Delta R.T. 0.271 min

Lab File: VN086339.D

Acq: 18 Apr 2025 13:19

Instrument :

MSVOA_N

ClientSampleId :

PB167623ZHE#04

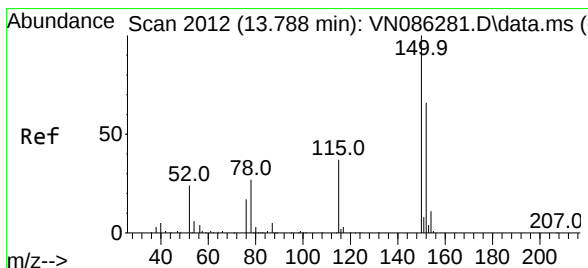
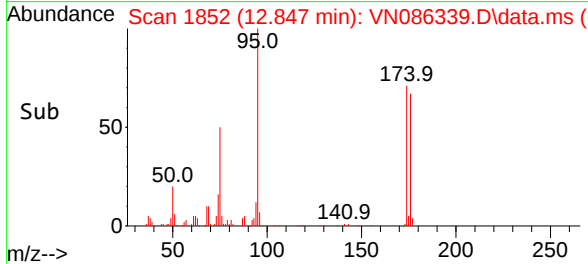
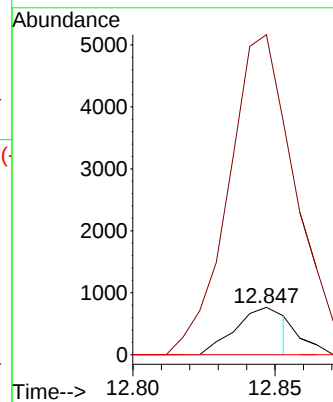
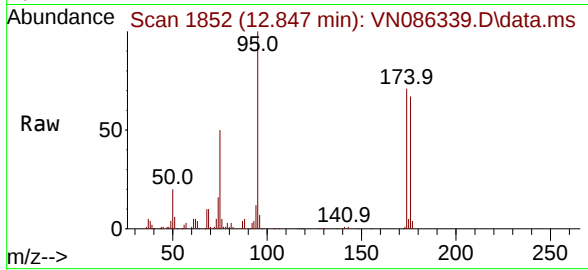
Tgt Ion:173 Resp: 927

Ion Ratio Lower Upper

173 100

175 745.5 24.6 73.6#

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: VN086339.D

Acq: 18 Apr 2025 13:19

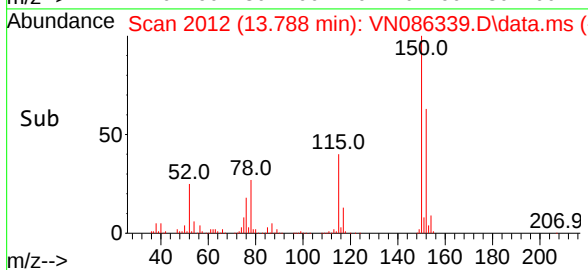
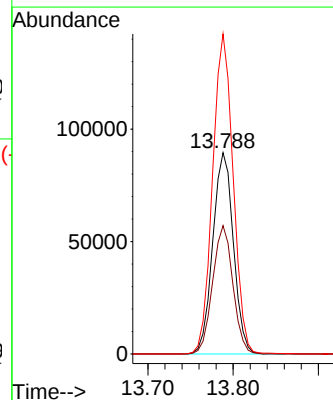
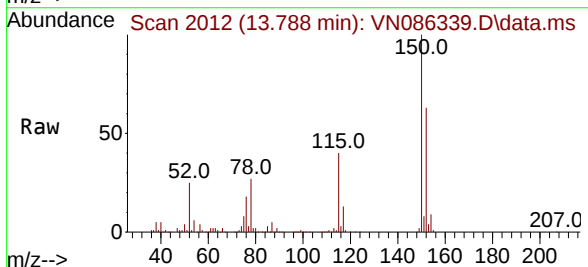
Tgt Ion:152 Resp: 150375

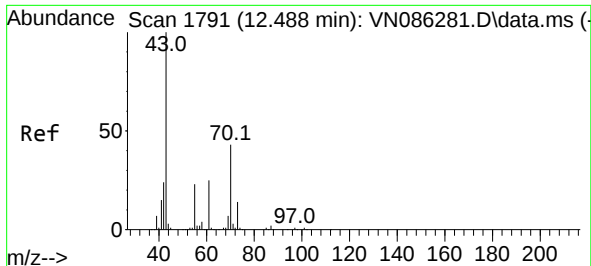
Ion Ratio Lower Upper

152 100

115 62.6 31.9 95.9

150 158.4 0.0 352.0

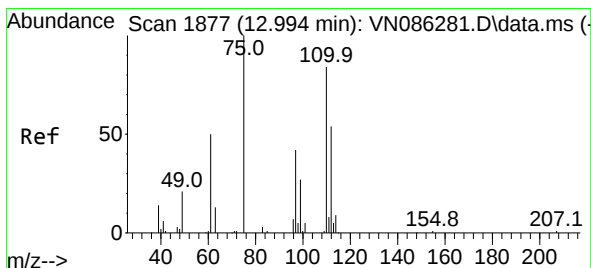
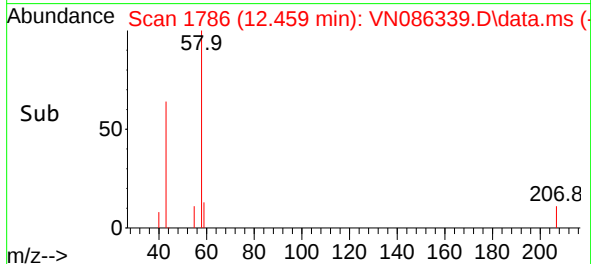
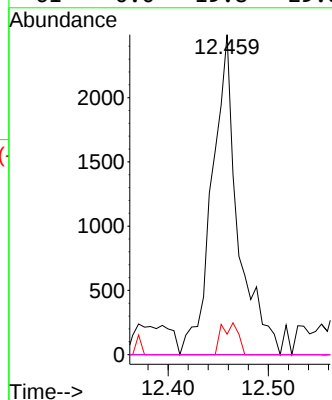
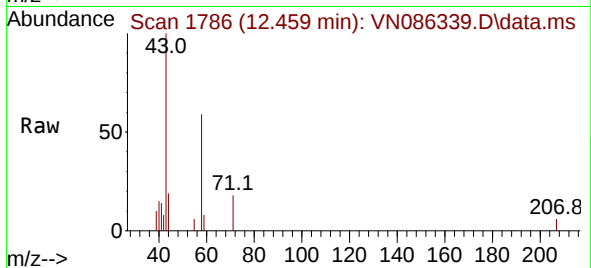




#74
N-amy1 acetate
Concen: 0.730 ug/l
RT: 12.459 min Scan# 11
Delta R.T. -0.029 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

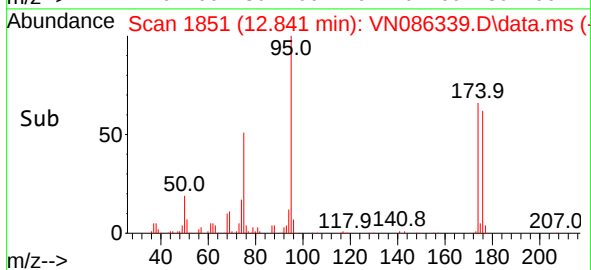
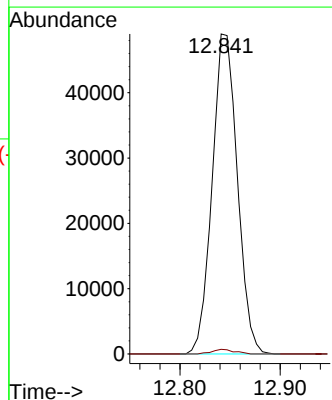
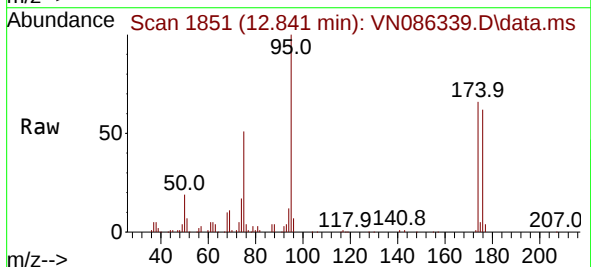
Instrument :
MSVOA_N
ClientSampleId :
PB167623ZHE#04

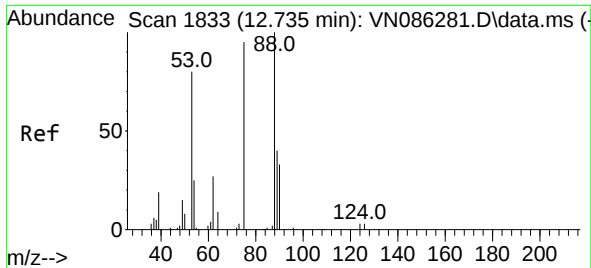
Tgt Ion: 43	Resp: 4471
Ion Ratio	Lower Upper
43 100	
70 0.0	35.0 52.4#
55 6.3	19.0 28.4#
61 0.0	19.8 29.8#



#76
1,2,3-Trichloropropane
Concen: 24.078 ug/l
RT: 12.841 min Scan# 1851
Delta R.T. -0.153 min
Lab File: VN086339.D
Acq: 18 Apr 2025 13:19

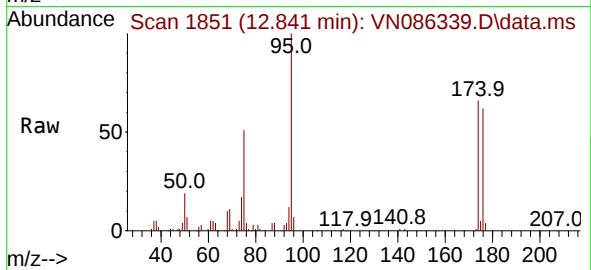
Tgt Ion: 75	Resp: 85445
Ion Ratio	Lower Upper
75 100	
77 1.3	98.8 296.4#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 57.827 ug/l
 RT: 12.841 min Scan# 11
 Delta R.T. 0.106 min
 Lab File: VN086339.D
 Acq: 18 Apr 2025 13:19

Instrument :
 MSVOA_N
 ClientSampleId :
 PB167623ZHE#04



Tgt Ion: 75 Resp: 85445
 Ion Ratio Lower Upper
 75 100
 53 0.0 79.2 118.8#
 89 0.0 35.7 53.5#

