

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060325\
 Data File : VN086843.D
 Acq On : 03 Jun 2025 15:21
 Operator : JC\MD
 Sample : PB168225ZHE#04
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 10 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168225ZHE#04

Quant Time: Jun 04 02:00:23 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)

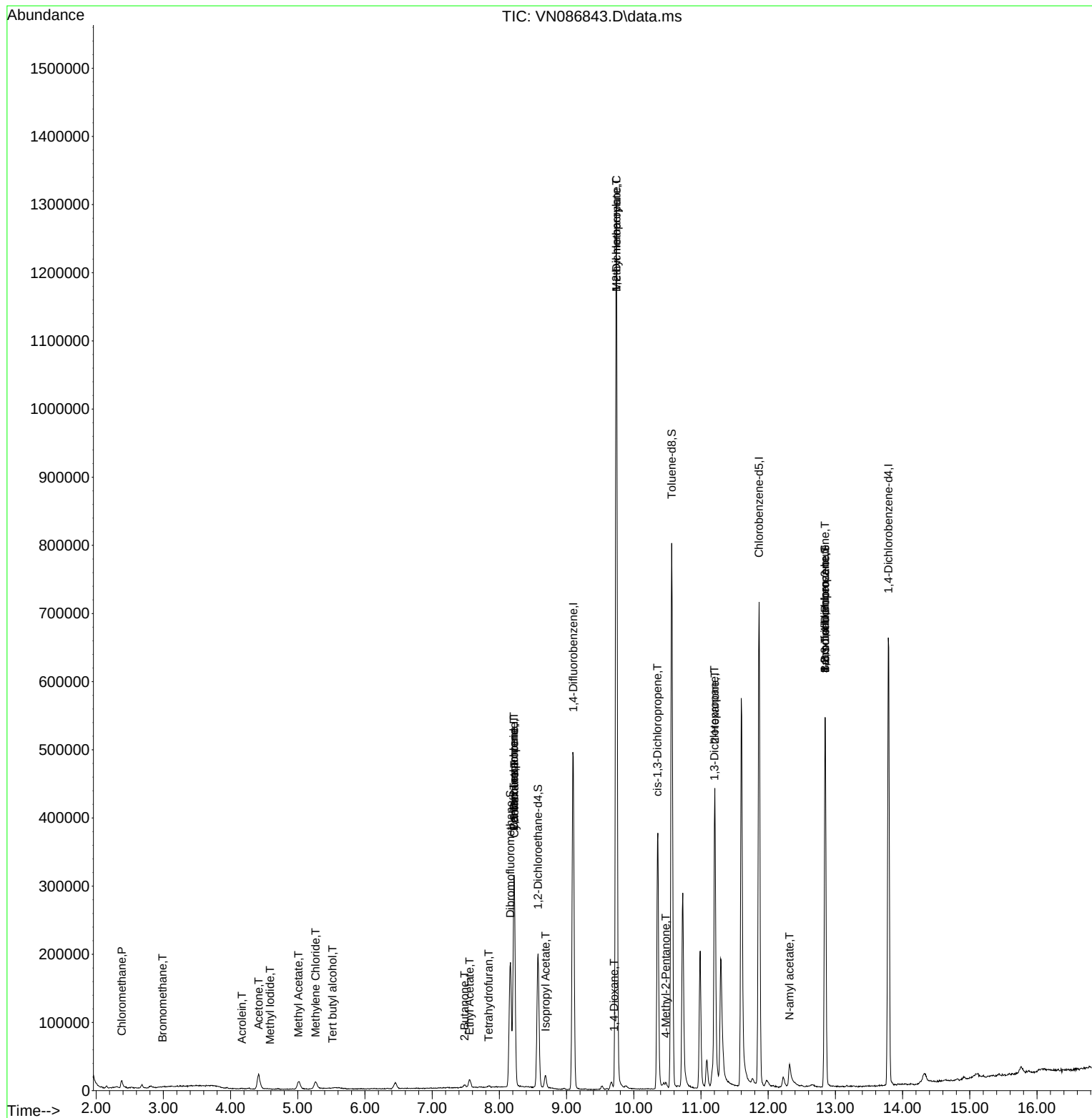
Internal Standards						
1) Pentafluorobenzene	8.218	168	238283	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	461302	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	429423	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	194252	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.577	65	161229	48.967	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery =	97.940%		
35) Dibromofluoromethane	8.165	113	142966	52.040	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	104.080%		
50) Toluene-d8	10.565	98	580158	50.959	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery =	101.920%		
62) 4-Bromofluorobenzene	12.847	95	214384	53.331	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery =	106.660%		
Target Compounds						Qvalue
3) Chloromethane	2.383	50	19995	5.137	ug/l	100
5) Bromomethane	2.989	94	444	0.220	ug/l #	25
10) Methyl Iodide	4.589	142	869	0.279	ug/l #	43
11) Tert butyl alcohol	5.518	59	294	0.490	ug/l #	73
13) Acrolein	4.171	56	672	1.048	ug/l	90
16) Acetone	4.418	43	40375	32.781	ug/l	99
18) Methyl Acetate	5.012	43	24301	7.049	ug/l	99
20) Methylene Chloride	5.265	84	8845	2.721	ug/l	93
25) 2-Butanone	7.483	43	7514	3.948	ug/l #	88
29) Tetrahydrofuran	7.841	42	1327	1.068	ug/l #	77
31) Cyclohexane	8.224	56	4926	0.997	ug/l #	1
36) 1,1-Dichloropropene	8.218	75	18527	4.572	ug/l #	49
37) Ethyl Acetate	7.559	43	18103	4.422	ug/l	98
38) Carbon Tetrachloride	8.218	117	23531	5.894	ug/l #	17
43) Isopropyl Acetate	8.688	43	20505	2.499	ug/l	95
45) 1,2-Dichloropropane	9.741	63	1721	0.548	ug/l #	42
48) Methyl methacrylate	9.741	41	109166	34.331	ug/l #	35
49) 1,4-Dioxane	9.706	88	528	7.842	ug/l #	24
51) 4-Methyl-2-Pentanone	10.477	43	6476	1.565	ug/l #	33
54) cis-1,3-Dichloropropene	10.353	75	80663	15.985	ug/l #	56
57) 1,3-Dichloropropane	11.200	76	5350	1.013	ug/l #	42
59) 2-Hexanone	11.206	43	87290	28.885	ug/l #	42
71) Bromoform	12.847	173	859	0.397	ug/l #	1
74) N-amyl acetate	12.318	43	16669	2.659	ug/l #	50
76) 1,2,3-Trichloropropane	12.847	75	102487	23.329	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	102487	58.873	ug/l #	15

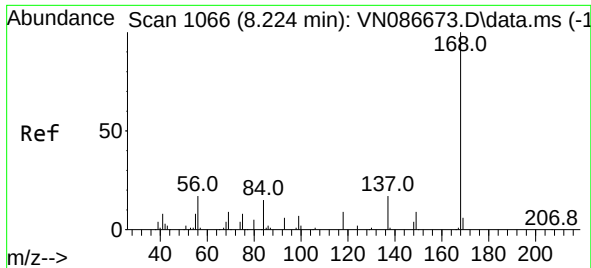
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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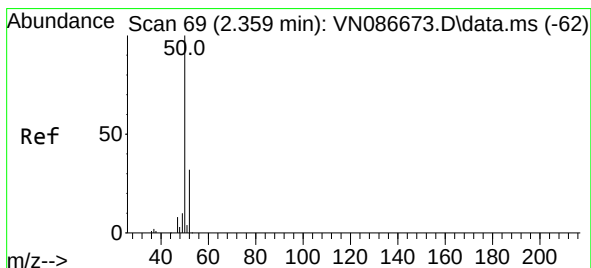
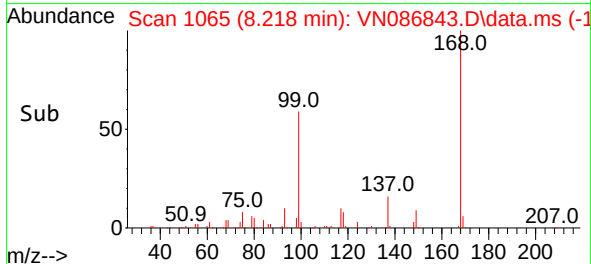
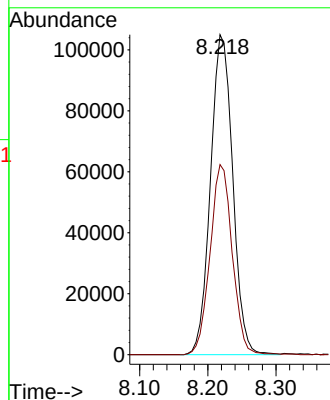
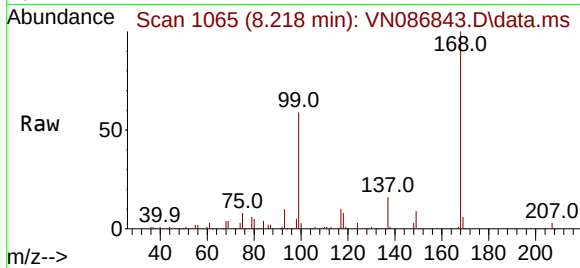




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 10
Delta R.T. -0.006 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

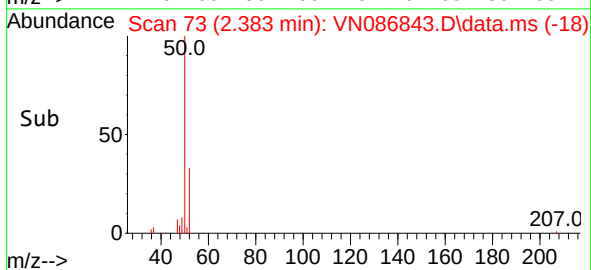
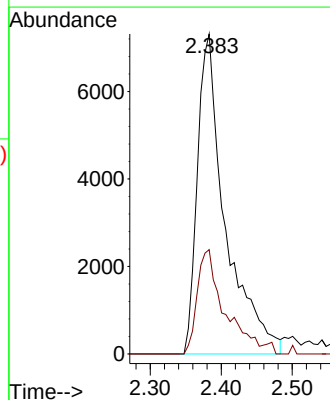
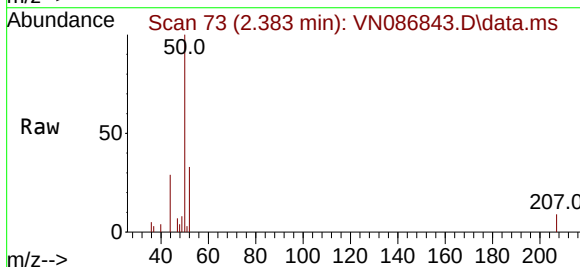
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

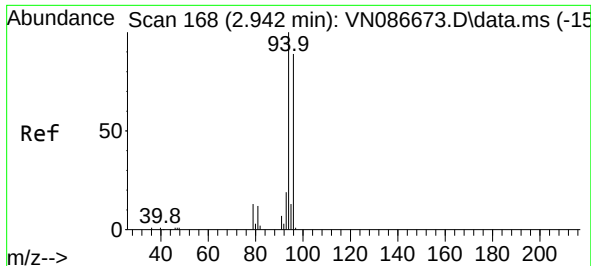
Tgt Ion:168 Resp: 238283
Ion Ratio Lower Upper
168 100
99 59.4 47.0 70.4



#3
Chloromethane
Concen: 5.137 ug/l
RT: 2.383 min Scan# 73
Delta R.T. 0.024 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion: 50 Resp: 19995
Ion Ratio Lower Upper
50 100
52 32.6 25.9 38.9

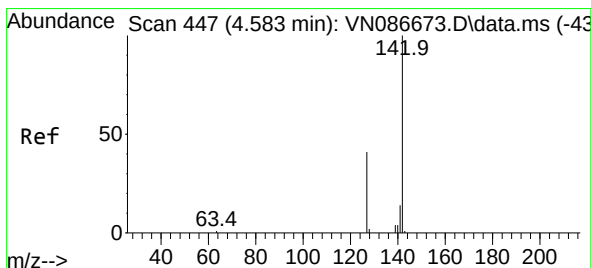
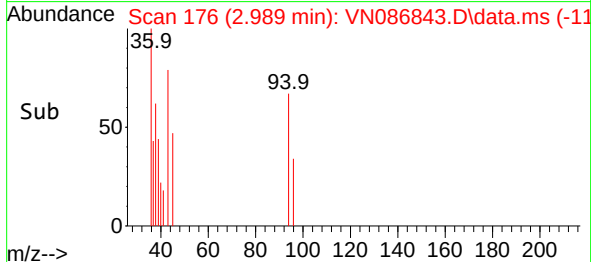
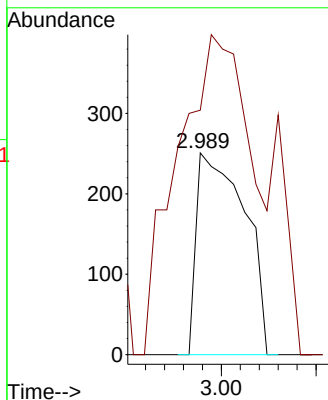
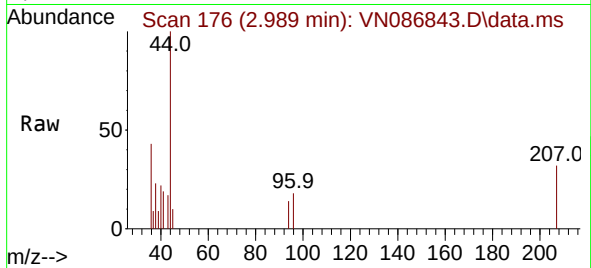




#5
Bromomethane
Concen: 0.220 ug/l
RT: 2.989 min Scan# 11
Delta R.T. 0.047 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

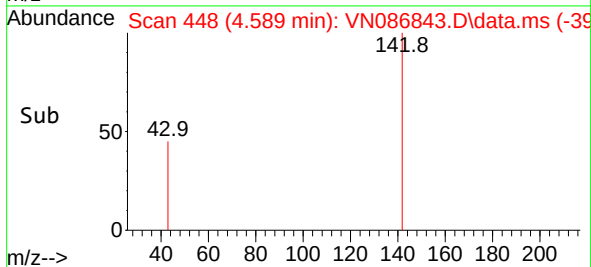
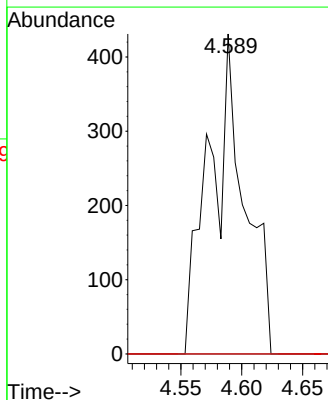
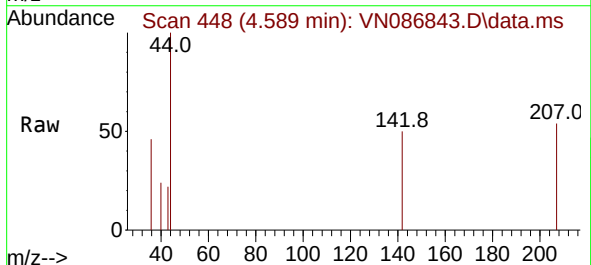
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

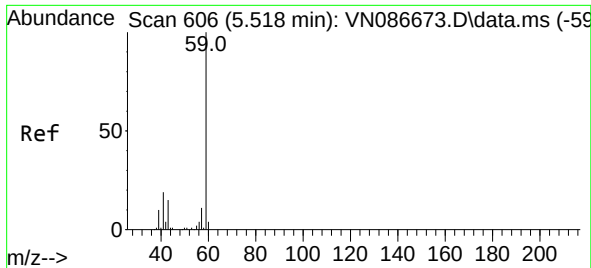
Tgt Ion: 94 Resp: 444
Ion Ratio Lower Upper
94 100
96 18.3 71.2 106.8#



#10
Methyl Iodide
Concen: 0.279 ug/l
RT: 4.589 min Scan# 448
Delta R.T. 0.006 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion:142 Resp: 869
Ion Ratio Lower Upper
142 100
127 0.0 32.4 48.6#
141 0.0 11.4 17.2#

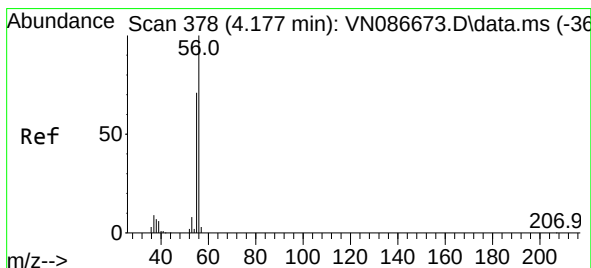
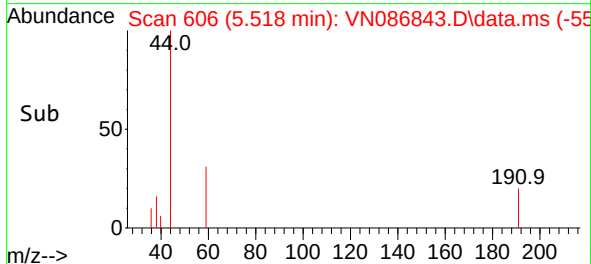
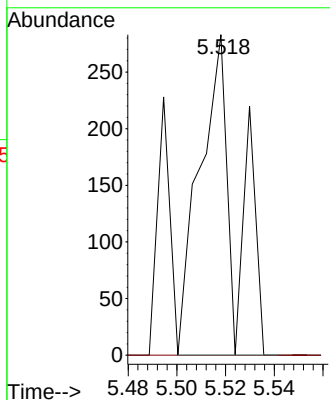
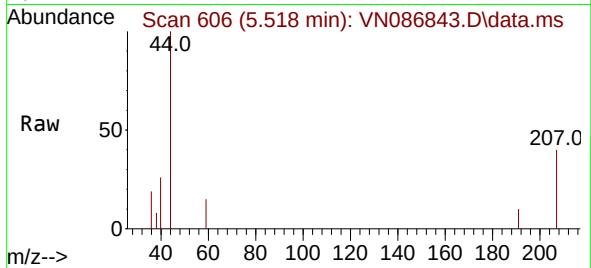




#11
Tert butyl alcohol
Concen: 0.490 ug/l
RT: 5.518 min Scan# 606
Delta R.T. -0.000 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

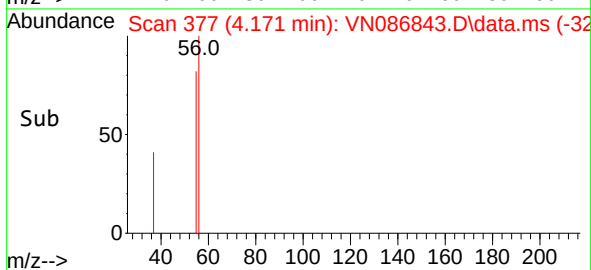
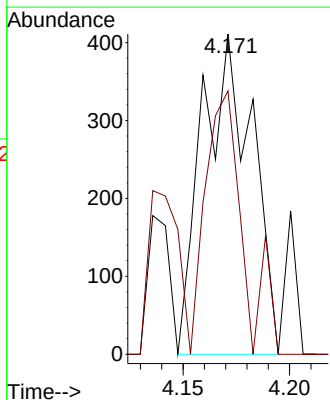
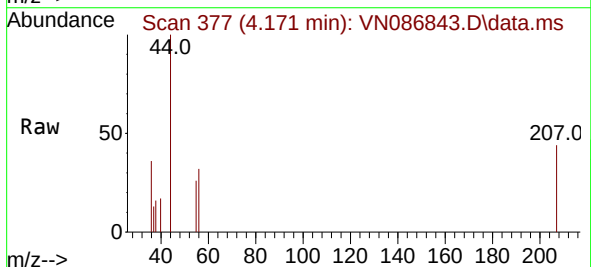
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

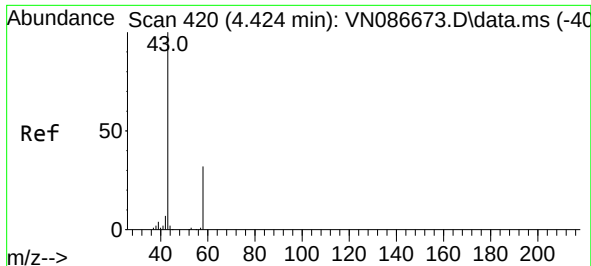
Tgt Ion: 59 Resp: 294
Ion Ratio Lower Upper
59 100
57 0.0 8.2 12.2#



#13
Acrolein
Concen: 1.048 ug/l
RT: 4.171 min Scan# 377
Delta R.T. -0.006 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion: 56 Resp: 672
Ion Ratio Lower Upper
56 100
55 61.2 55.7 83.5

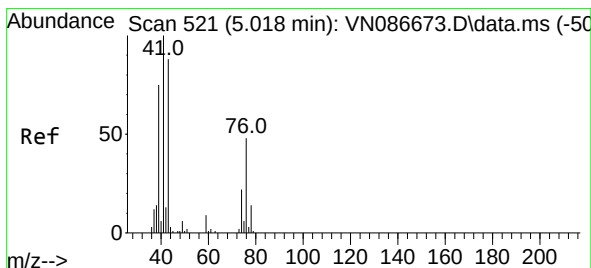
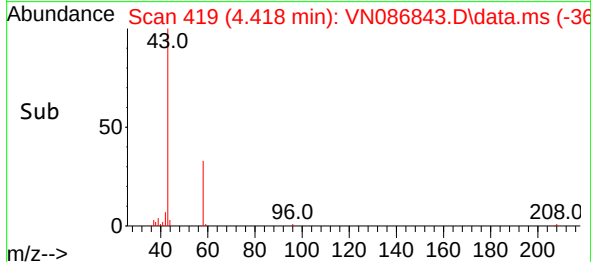
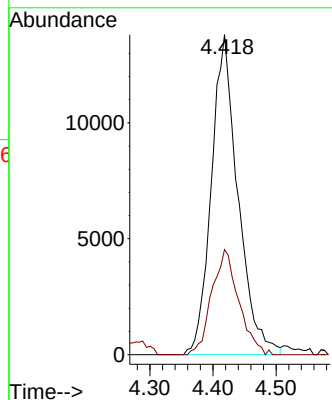
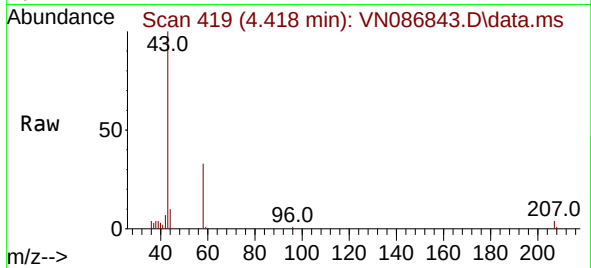




#16
Acetone
Concen: 32.781 ug/l
RT: 4.418 min Scan# 419
Delta R.T. -0.006 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

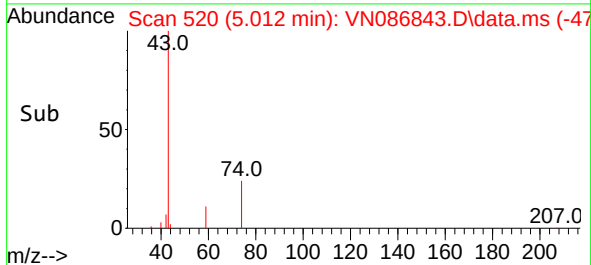
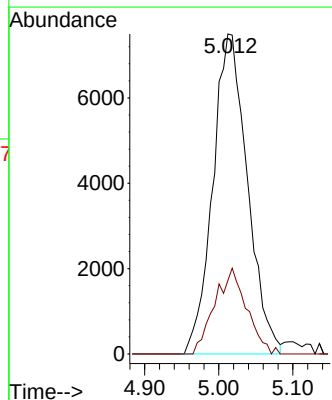
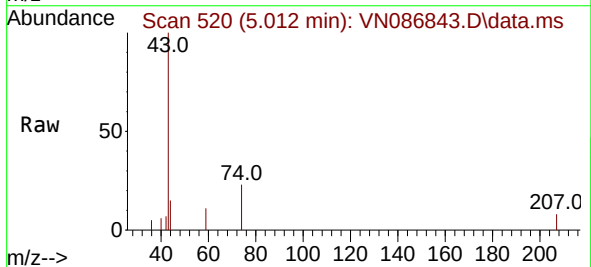
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

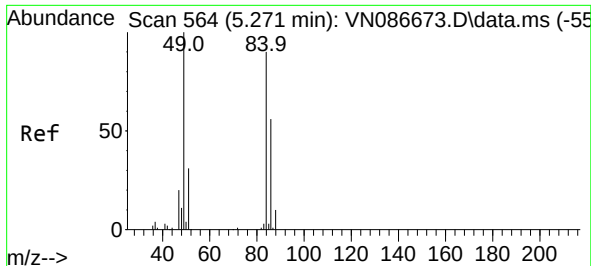
Tgt Ion: 43 Resp: 40375
Ion Ratio Lower Upper
43 100
58 32.9 25.8 38.6



#18
Methyl Acetate
Concen: 7.049 ug/l
RT: 5.012 min Scan# 520
Delta R.T. -0.006 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

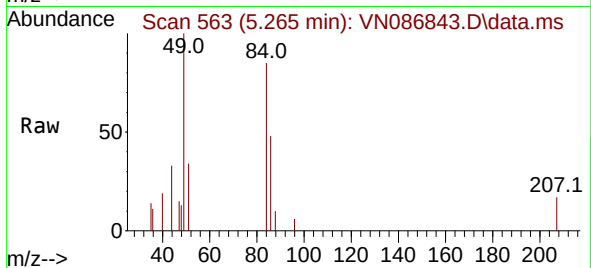
Tgt Ion: 43 Resp: 24301
Ion Ratio Lower Upper
43 100
74 24.9 20.5 30.7



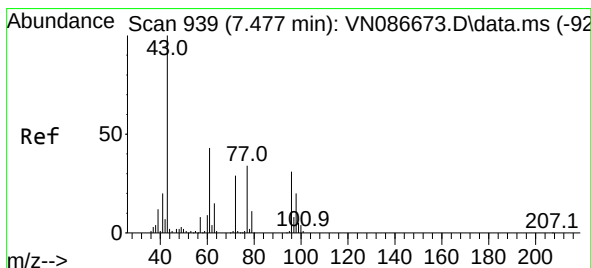
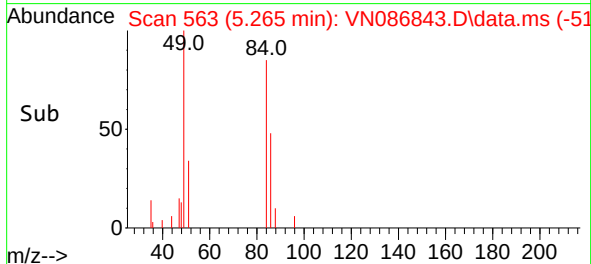
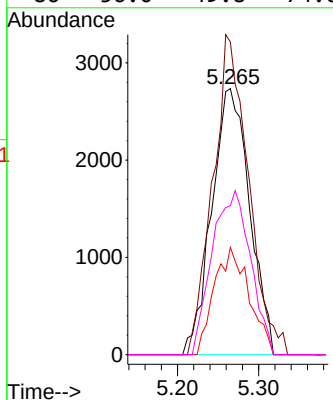


#20
Methylene Chloride
Concen: 2.721 ug/l
RT: 5.265 min Scan# 51
Delta R.T. -0.006 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

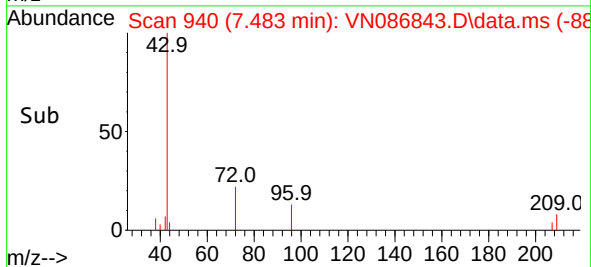
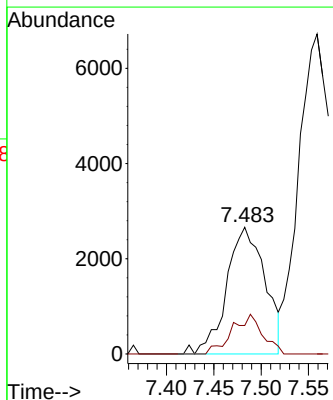
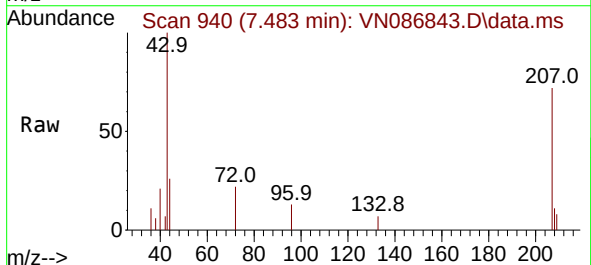


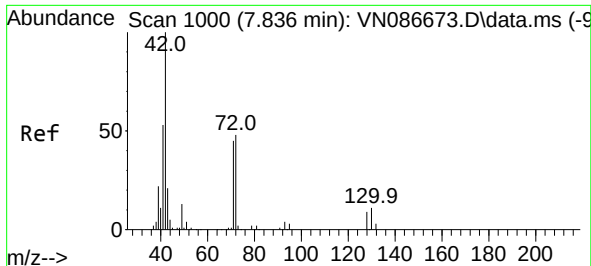
Tgt Ion	84	Resp:	8845
Ion	Ratio	Lower	Upper
84	100		
49	117.6	88.8	133.2
51	40.3	27.8	41.6
86	56.0	49.8	74.6



#25
2-Butanone
Concen: 3.948 ug/l
RT: 7.483 min Scan# 940
Delta R.T. 0.006 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion	43	Resp:	7514
Ion	Ratio	Lower	Upper
43	100		
72	22.5	23.1	34.7#





#29

Tetrahydrofuran

Concen: 1.068 ug/l

RT: 7.841 min Scan# 1066

Delta R.T. 0.006 min

Lab File: VN086843.D

Acq: 03 Jun 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

PB168225ZHE#04

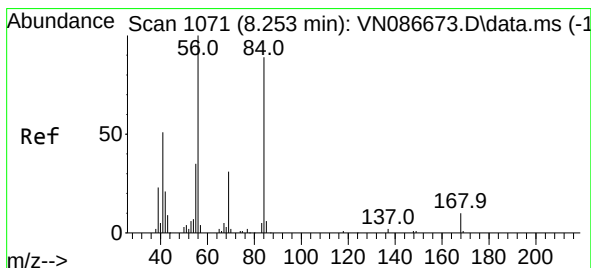
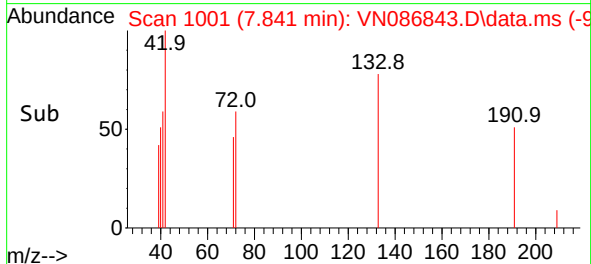
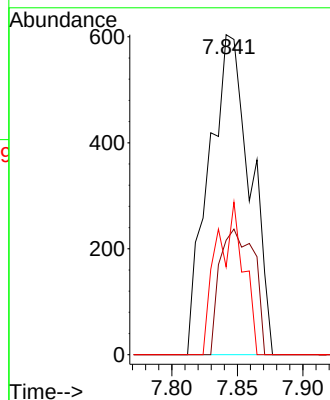
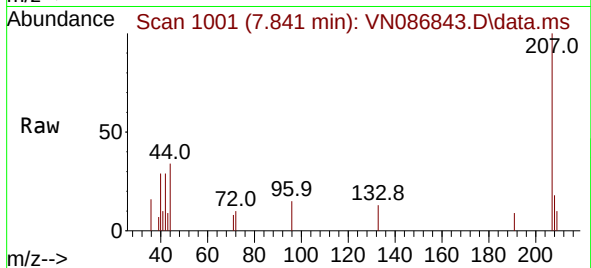
Tgt Ion: 42 Resp: 1327

Ion Ratio Lower Upper

42 100

72 32.5 38.7 58.1#

71 31.0 36.2 54.4#



#31

Cyclohexane

Concen: 0.997 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.029 min

Lab File: VN086843.D

Acq: 03 Jun 2025 15:21

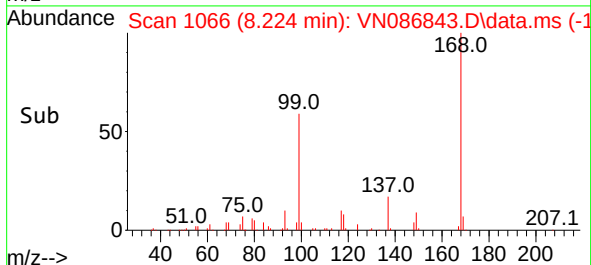
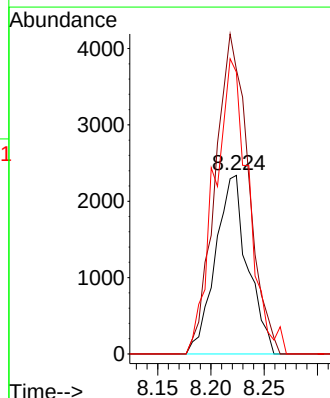
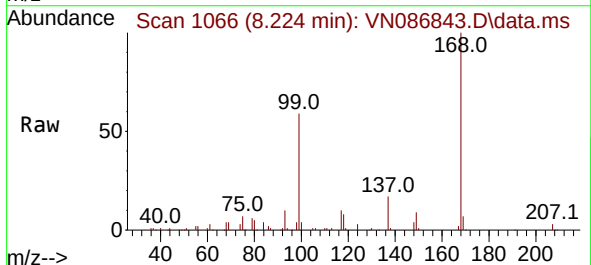
Tgt Ion: 56 Resp: 4926

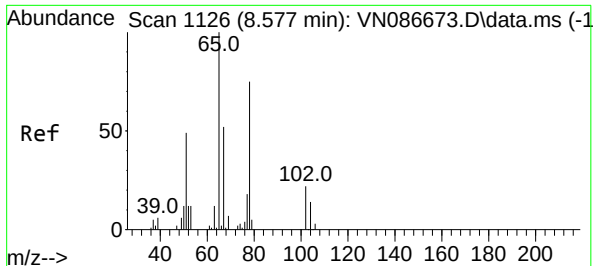
Ion Ratio Lower Upper

56 100

69 159.3 25.0 37.6#

84 157.9 71.0 106.4#





#33

1,2-Dichloroethane-d4

Concen: 48.967 ug/l

RT: 8.577 min Scan# 1126

Delta R.T. -0.000 min

Lab File: VN086843.D

Acq: 03 Jun 2025 15:21

Instrument :

MSVOA_N

ClientSampleId :

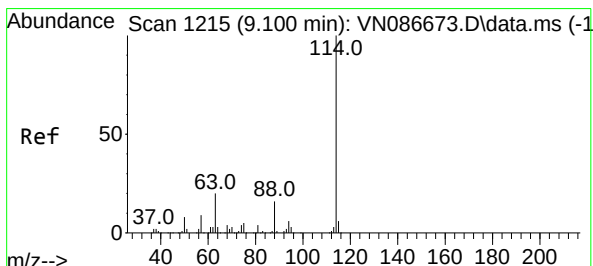
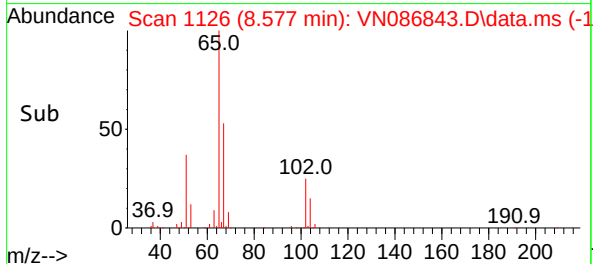
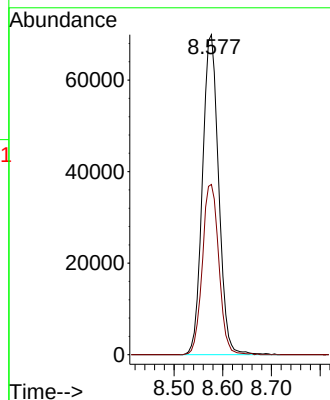
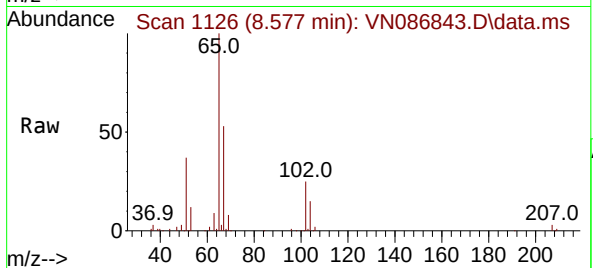
PB168225ZHE#04

Tgt Ion: 65 Resp: 161229

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# 1215

Delta R.T. -0.000 min

Lab File: VN086843.D

Acq: 03 Jun 2025 15:21

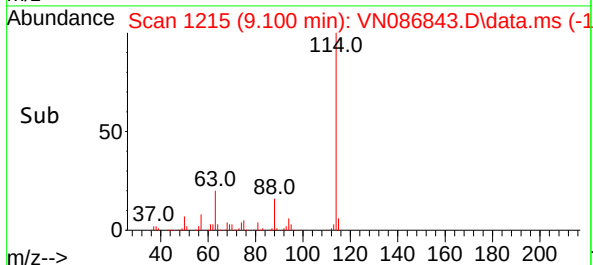
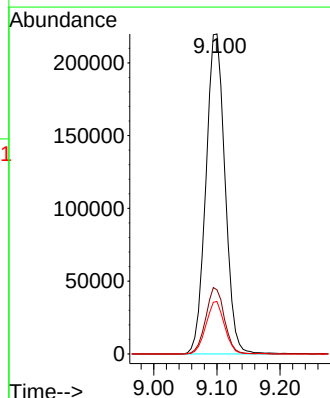
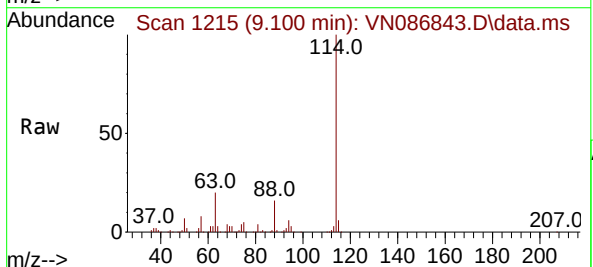
Tgt Ion: 114 Resp: 461302

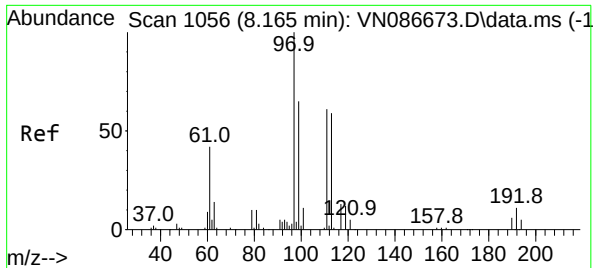
Ion Ratio Lower Upper

114 100

63 20.0 0.0 40.2

88 16.4 0.0 31.2

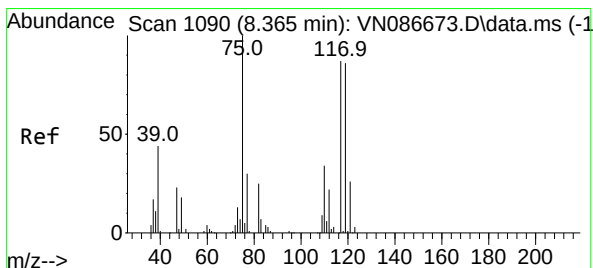
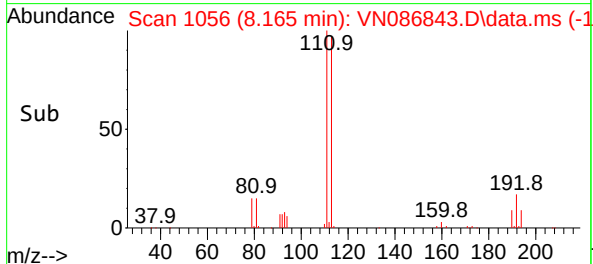
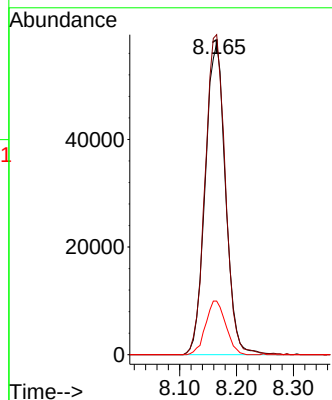
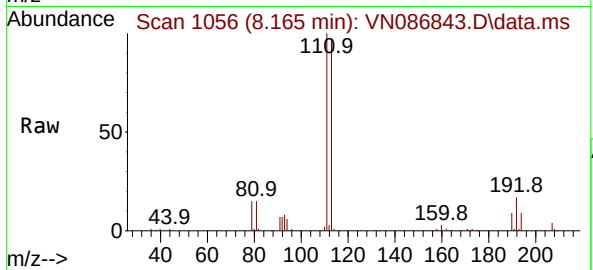




#35
Dibromofluoromethane
Concen: 52.040 ug/l
RT: 8.165 min Scan# 1056
Delta R.T. -0.000 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

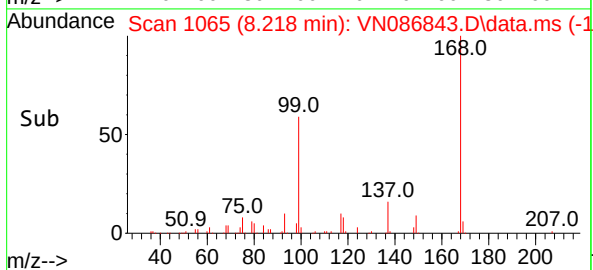
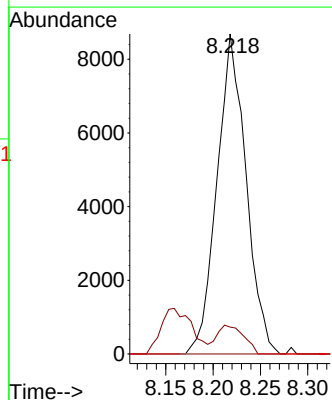
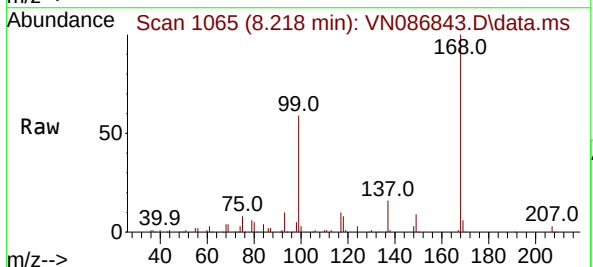
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

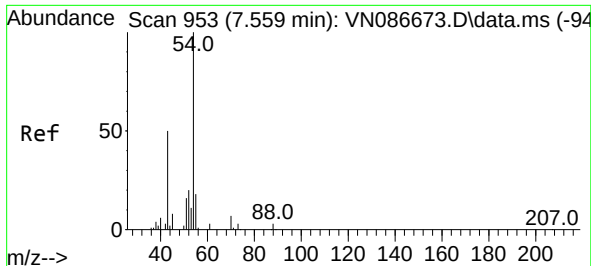
Tgt Ion:113 Resp: 142966
Ion Ratio Lower Upper
113 100
111 102.3 82.2 123.2
192 17.2 13.8 20.8



#36
1,1-Dichloropropene
Concen: 4.572 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.147 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion: 75 Resp: 18527
Ion Ratio Lower Upper
75 100
110 8.3 17.5 52.5#
77 0.0 25.1 37.7#

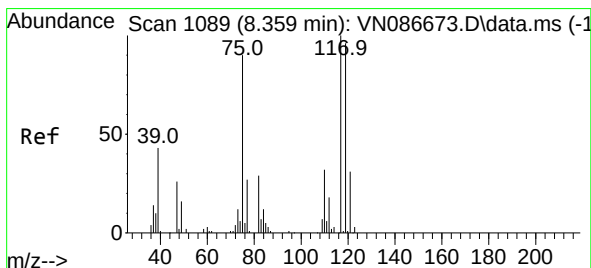
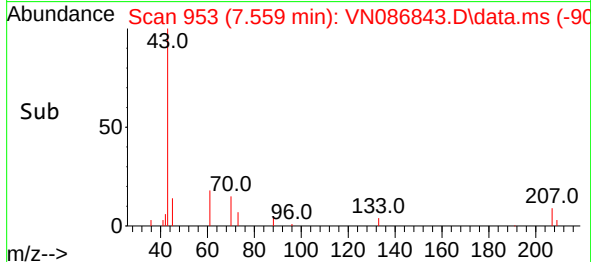
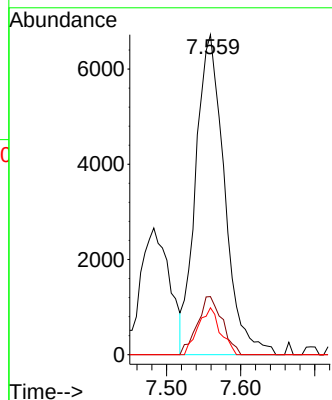
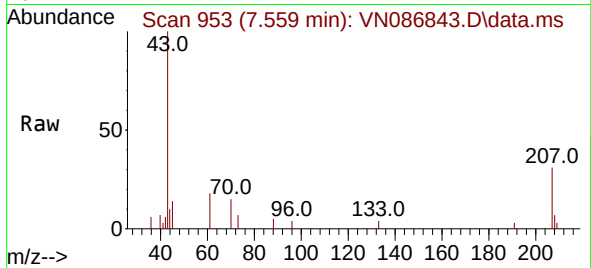




#37
Ethyl Acetate
Concen: 4.422 ug/l
RT: 7.559 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

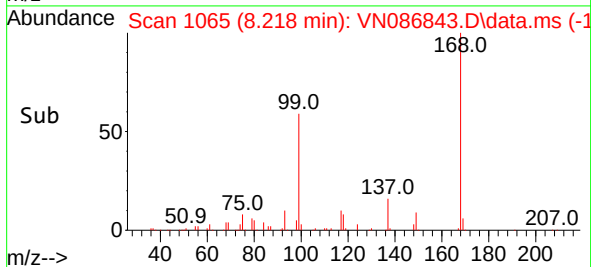
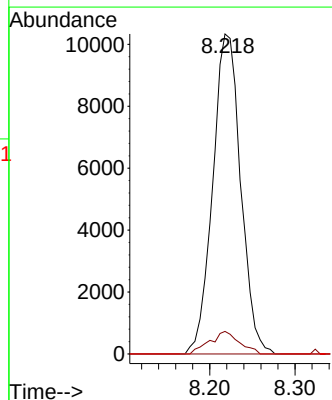
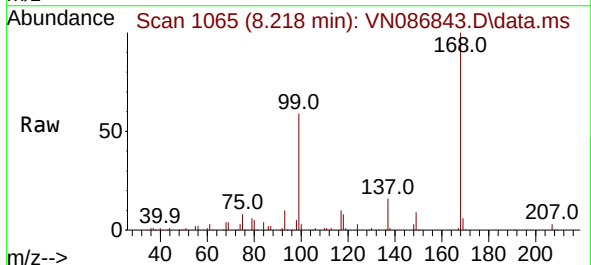
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

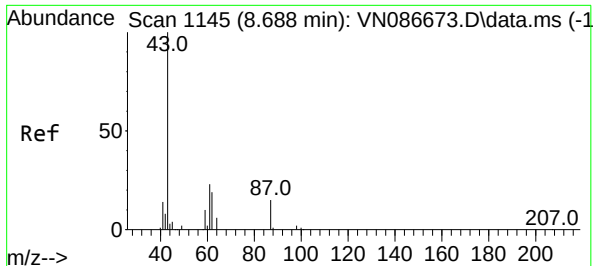
Tgt Ion:	43	Resp:	18103
Ion	Ratio	Lower	Upper
43	100		
61	15.8	11.6	17.4
70	11.4	9.4	14.0



#38
Carbon Tetrachloride
Concen: 5.894 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.141 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion:	117	Resp:	23531
Ion	Ratio	Lower	Upper
117	100		
119	7.0	77.0	115.6#
121	0.0	25.0	37.6#

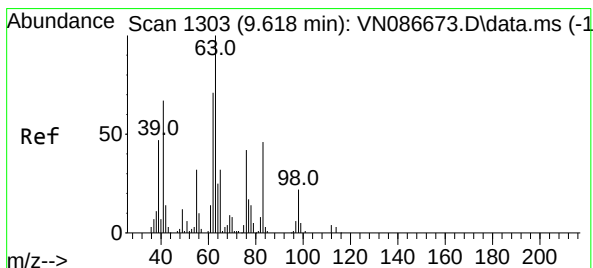
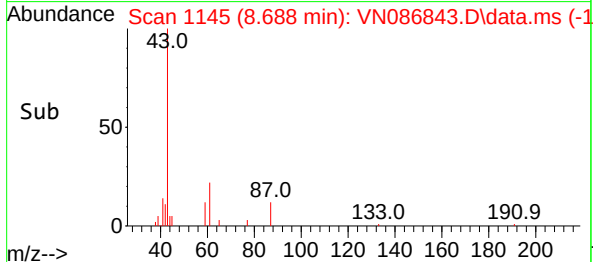
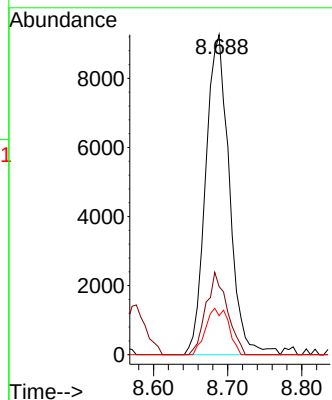
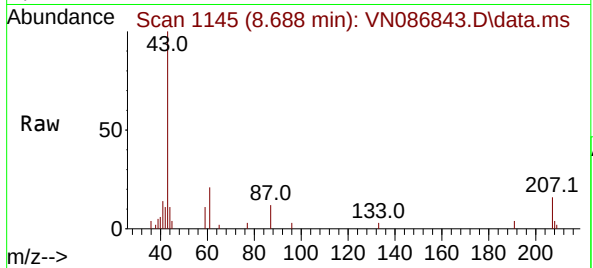




#43
Isopropyl Acetate
Concen: 2.499 ug/l
RT: 8.688 min Scan# 1145
Delta R.T. 0.000 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

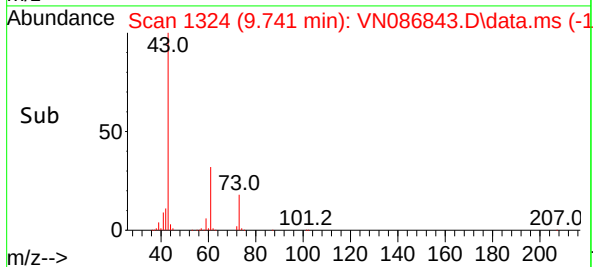
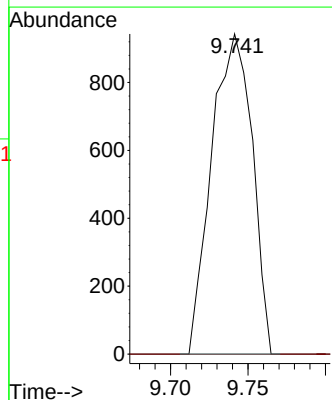
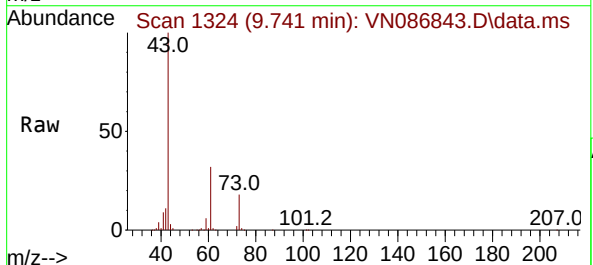
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

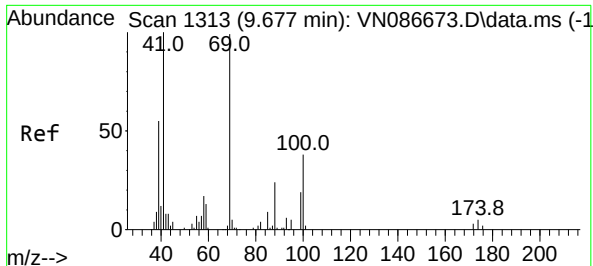
Tgt Ion:	43	Resp:	20505
Ion	Ratio	Lower	Upper
43	100		
61	23.2	21.4	32.2
87	14.0	11.1	16.7



#45
1,2-Dichloropropane
Concen: 0.548 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.123 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion:	63	Resp:	1721
Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.8	38.6

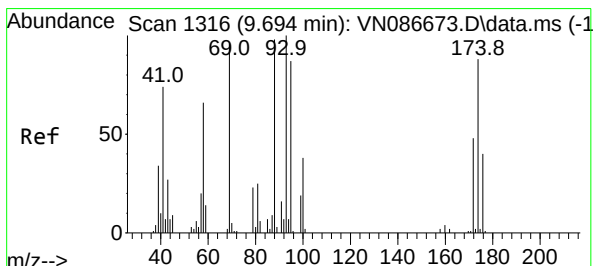
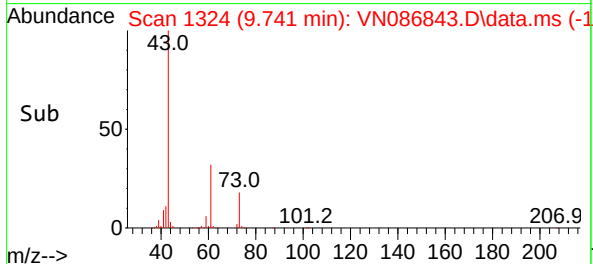
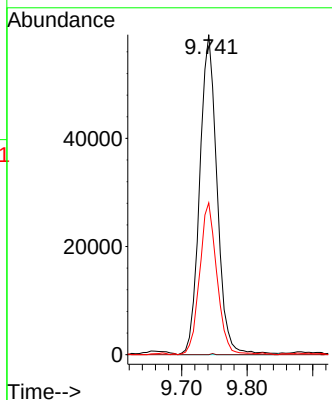
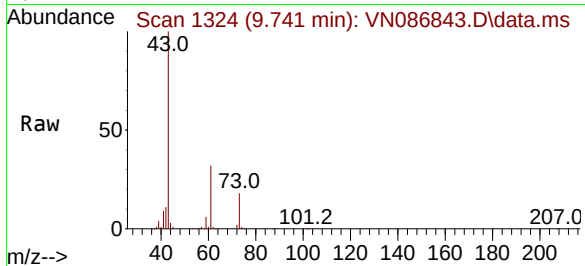




#48
Methyl methacrylate
Concen: 34.331 ug/l
RT: 9.741 min Scan# 11
Delta R.T. 0.065 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

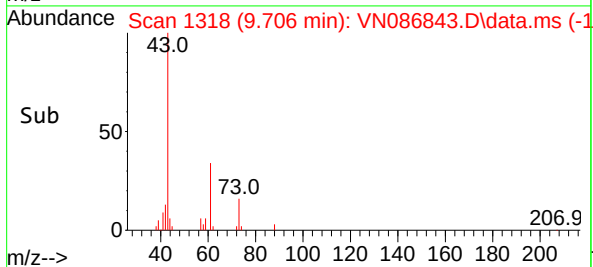
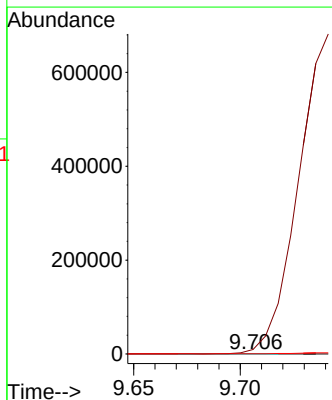
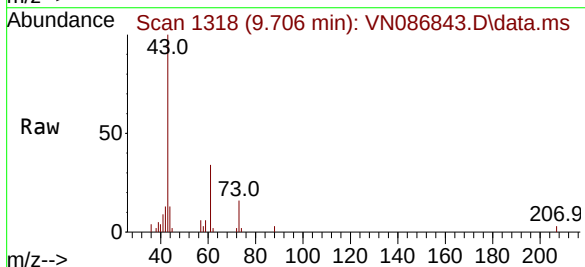
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

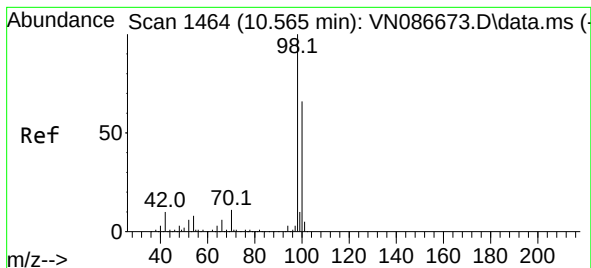
Tgt Ion: 41 Resp: 109166
Ion Ratio Lower Upper
41 100
69 0.1 74.1 111.1#
39 47.1 44.1 66.1



#49
1,4-Dioxane
Concen: 7.842 ug/l
RT: 9.706 min Scan# 1318
Delta R.T. 0.012 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion: 88 Resp: 528
Ion Ratio Lower Upper
88 100
43 0.0 23.6 35.4#
58 0.0 55.3 82.9#

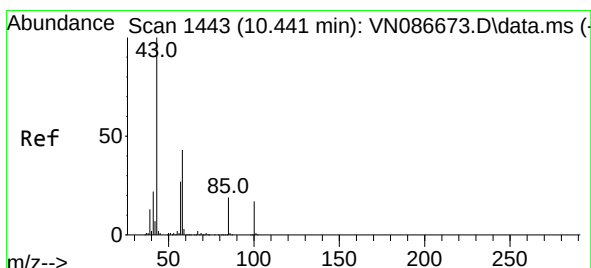
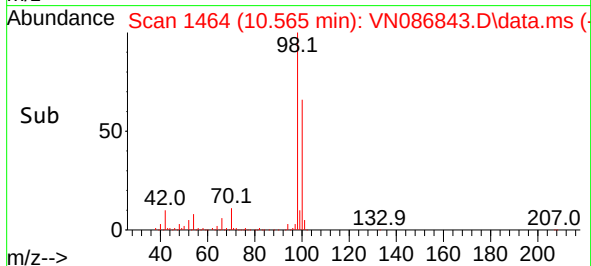
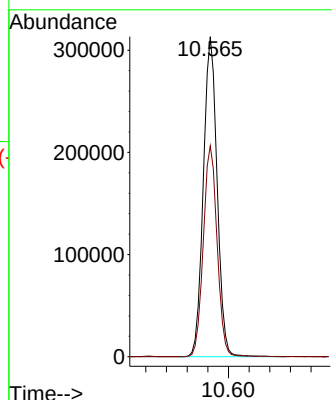
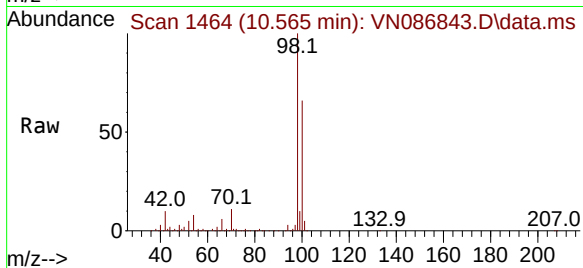




#50
Toluene-d8
Concen: 50.959 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

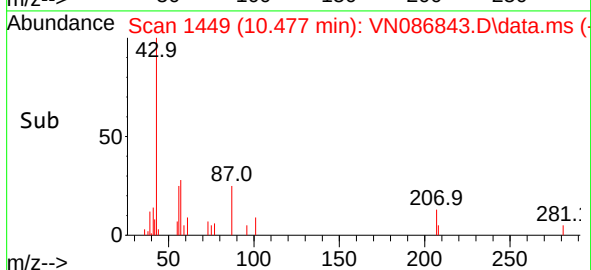
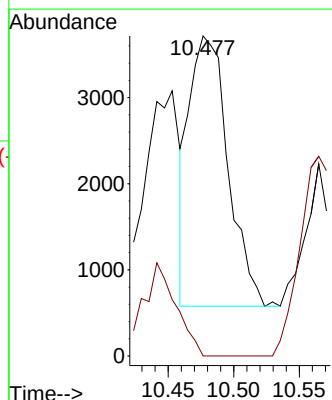
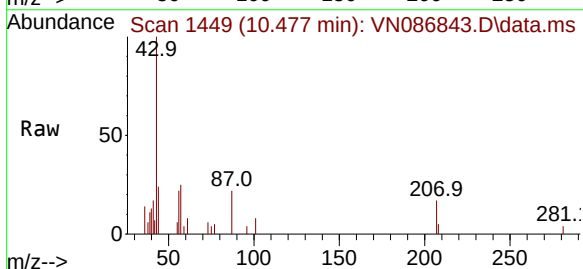
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

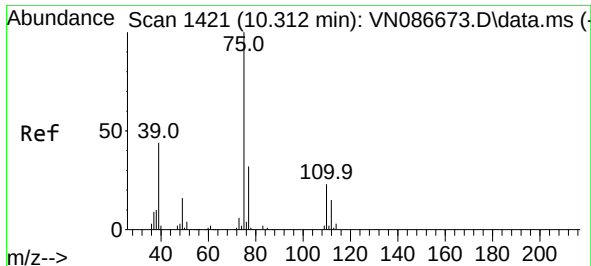
Tgt Ion: 98 Resp: 580158
Ion Ratio Lower Upper
98 100
100 65.8 52.9 79.3



#51
4-Methyl-2-Pentanone
Concen: 1.565 ug/l
RT: 10.477 min Scan# 1449
Delta R.T. 0.035 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion: 43 Resp: 6476
Ion Ratio Lower Upper
43 100
58 0.0 33.9 50.9#

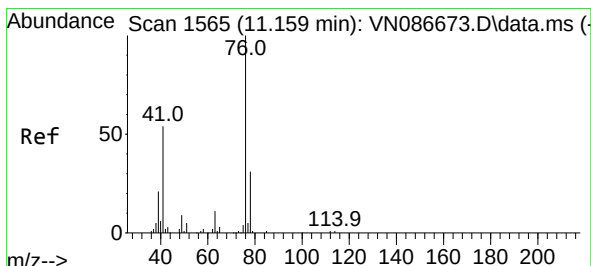
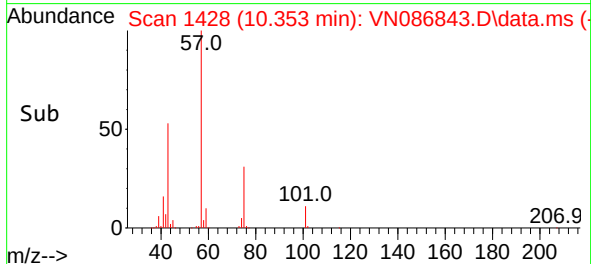
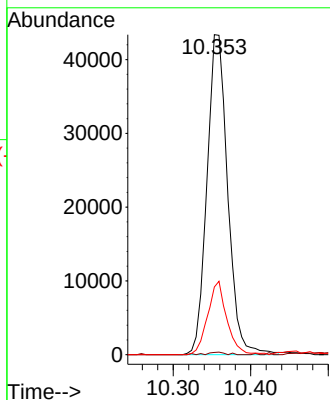
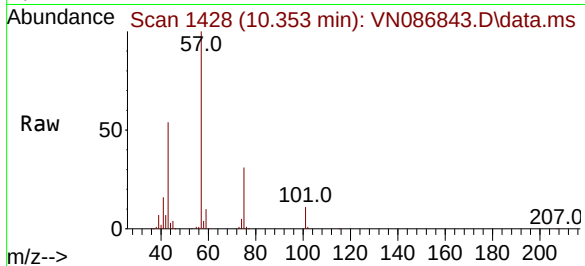




#54
cis-1,3-Dichloropropene
Concen: 15.985 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.041 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

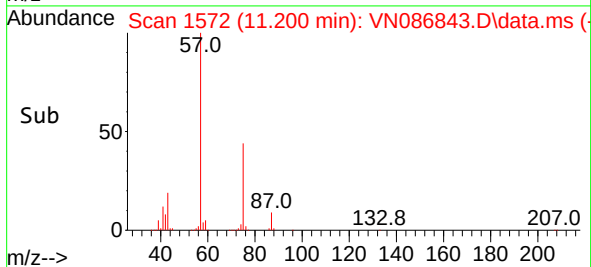
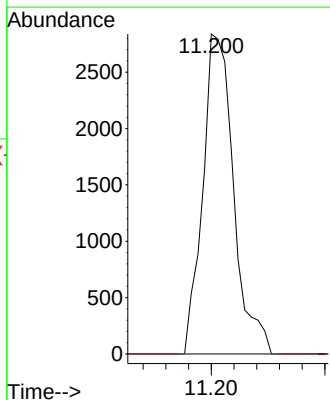
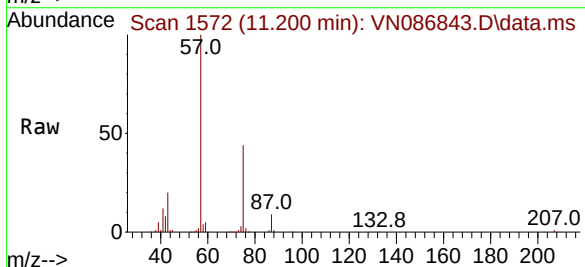
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

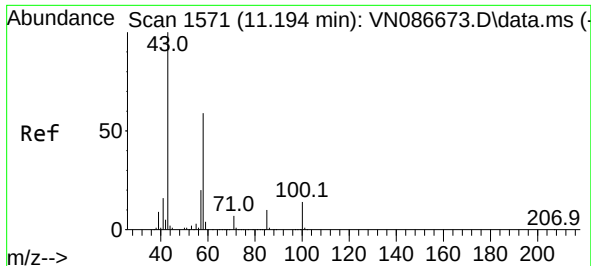
Tgt Ion:	75	Resp:	80663
Ion Ratio	Lower	Upper	
75	100		
77	0.7	25.3	37.9#
39	21.1	35.2	52.8#



#57
1,3-Dichloropropane
Concen: 1.013 ug/l
RT: 11.200 min Scan# 1572
Delta R.T. 0.041 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion:	76	Resp:	5350
Ion Ratio	Lower	Upper	
76	100		
78	0.0	25.8	38.8#

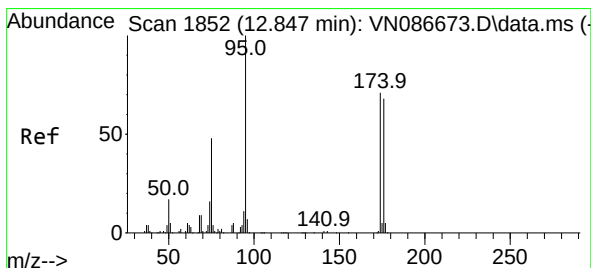
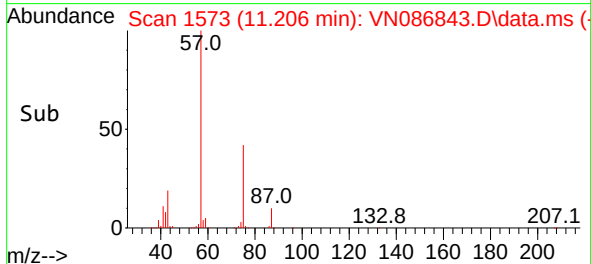
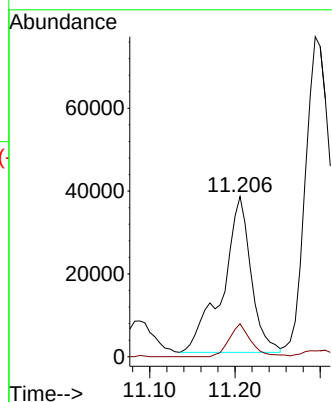
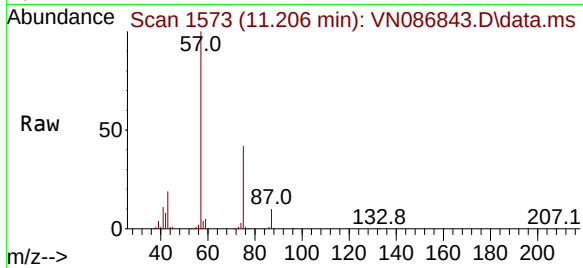




#59
2-Hexanone
Concen: 28.885 ug/l
RT: 11.206 min Scan# 1573
Delta R.T. 0.012 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

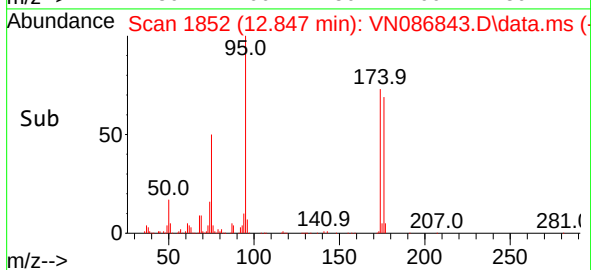
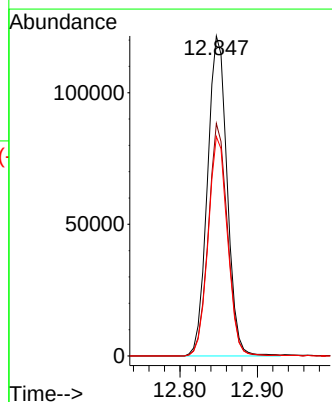
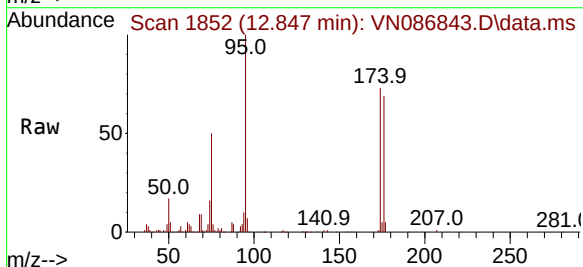
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

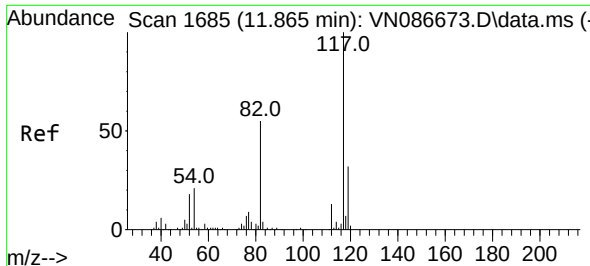
Tgt Ion: 43 Resp: 87290
Ion Ratio Lower Upper
43 100
58 16.3 29.8 89.5#



#62
4-Bromofluorobenzene
Concen: 53.331 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion: 95 Resp: 214384
Ion Ratio Lower Upper
95 100
174 70.9 0.0 145.4
176 67.3 0.0 137.8

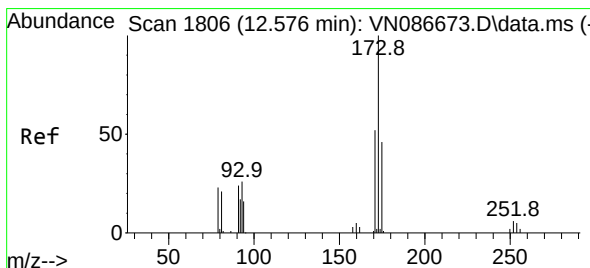
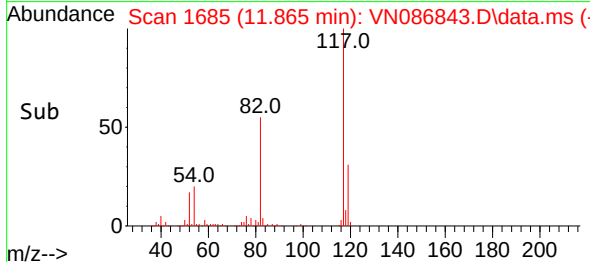
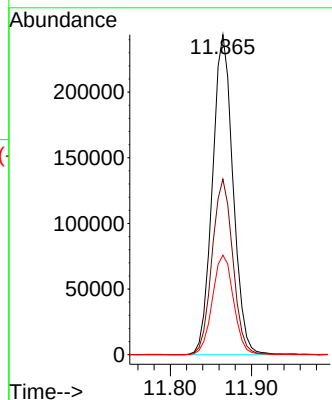
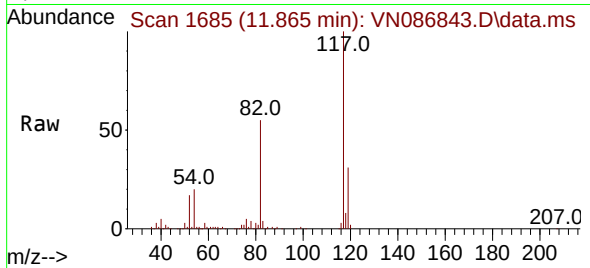




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1170
Delta R.T. -0.000 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

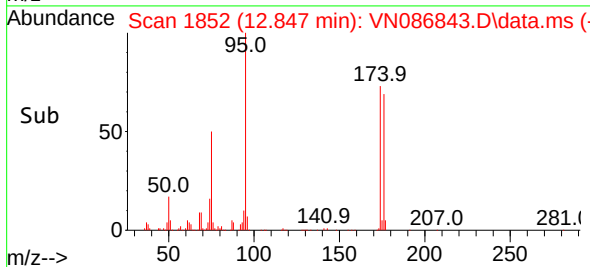
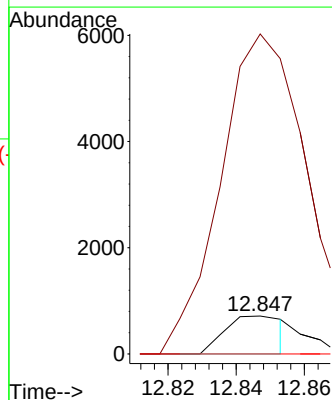
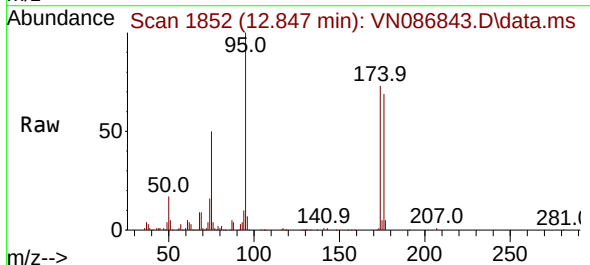
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

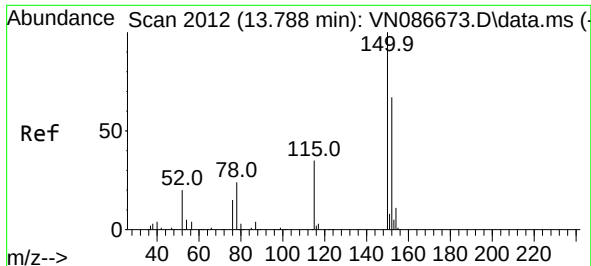
Tgt Ion:117 Resp: 429423
Ion Ratio Lower Upper
117 100
82 54.8 44.2 66.2
119 31.1 25.4 38.2



#71
Bromoform
Concen: 0.397 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.271 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion:173 Resp: 859
Ion Ratio Lower Upper
173 100
175 914.9 23.4 70.2#
254 0.0 0.0 0.0

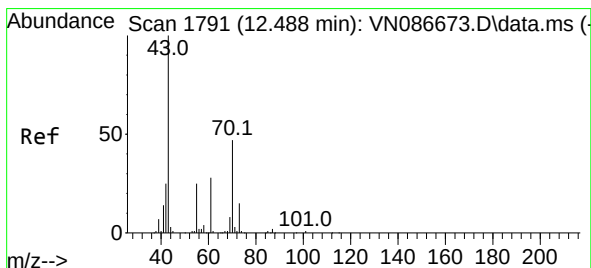
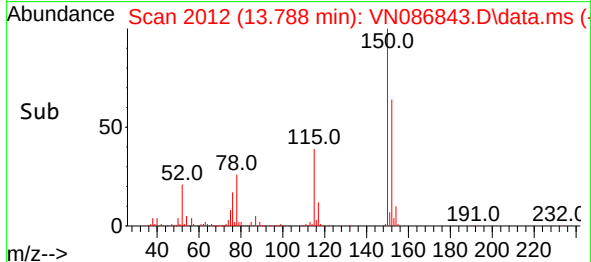
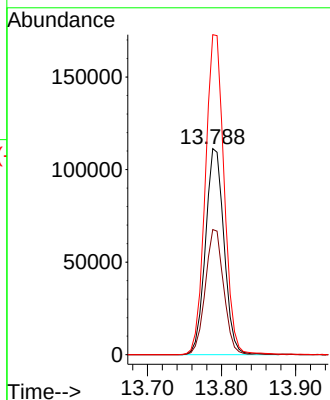
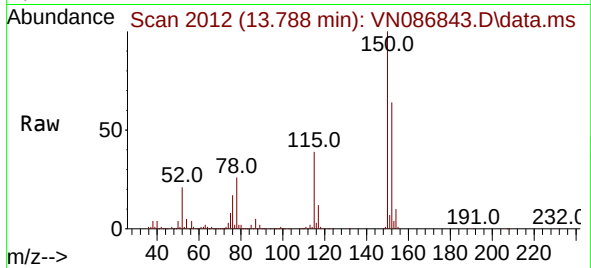




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.000 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

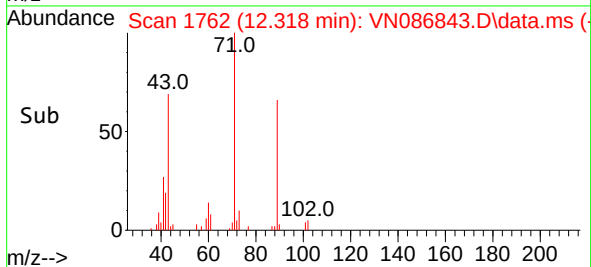
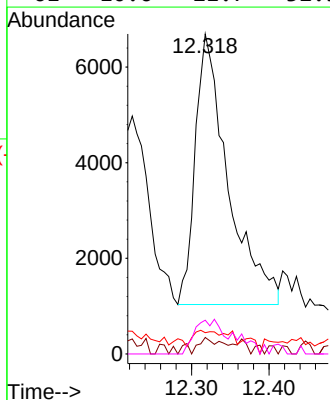
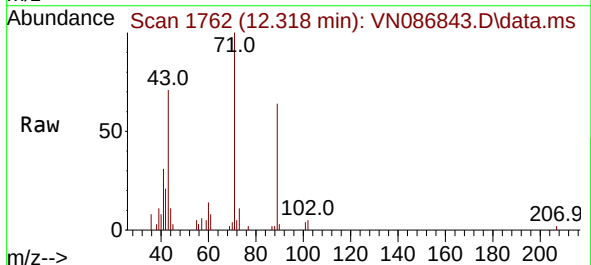
Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

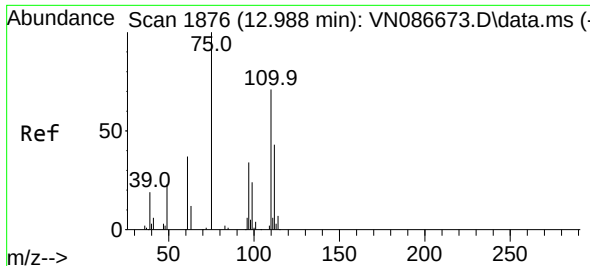
Tgt Ion:152 Resp: 194252
Ion Ratio Lower Upper
152 100
115 60.0 30.0 90.1
150 157.0 0.0 347.8



#74
N-ethyl acetate
Concen: 2.659 ug/l
RT: 12.318 min Scan# 1762
Delta R.T. -0.171 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion: 43 Resp: 16669
Ion Ratio Lower Upper
43 100
70 4.0 37.9 56.9#
55 4.2 20.5 30.7#
61 10.6 21.7 32.5#

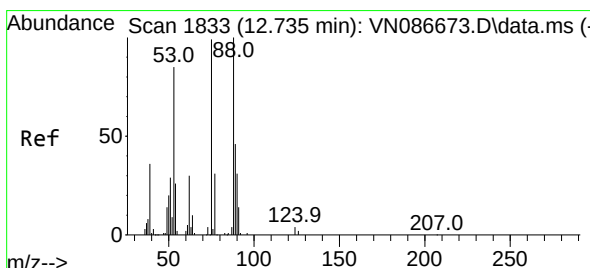
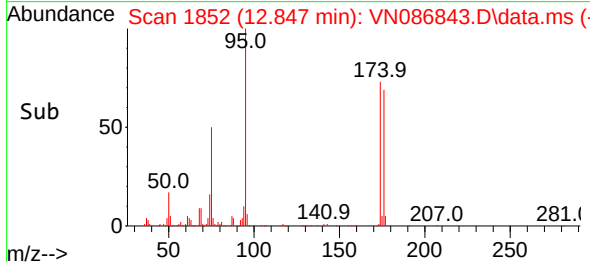
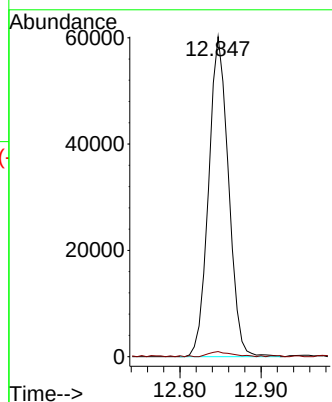
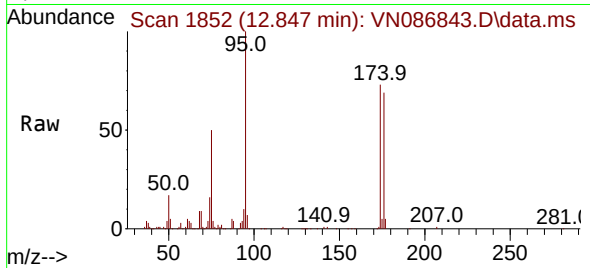




#76
1,2,3-Trichloropropane
Concen: 23.329 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Instrument :
MSVOA_N
ClientSampleId :
PB168225ZHE#04

Tgt Ion: 75 Resp: 102487
Ion Ratio Lower Upper
75 100
77 1.8 96.0 288.1#



#81
trans-1,4-Dichloro-2-butene
Concen: 58.873 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN086843.D
Acq: 03 Jun 2025 15:21

Tgt Ion: 75 Resp: 102487
Ion Ratio Lower Upper
75 100
53 0.0 70.4 105.6#
89 0.1 32.4 48.6#

