

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN060925\
 Data File : VN086908.D
 Acq On : 09 Jun 2025 16:13
 Operator : JC\MD
 Sample : Q2226-04RE
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

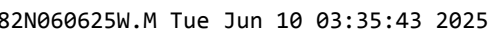
Quant Time: Jun 10 03:35:32 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
 Quant Title : SW846 8260
 QLast Update : Sat Jun 07 02:12:50 2025
 Response via : Initial Calibration

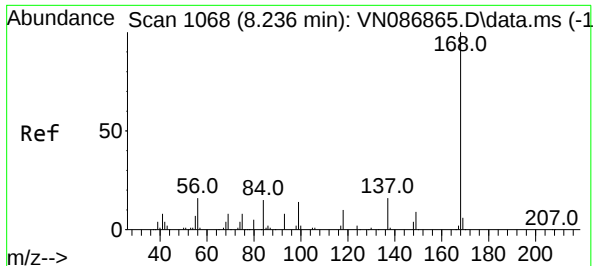
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

Internal Standards						
1) Pentafluorobenzene	8.230	168	421102	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	758244	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	661773	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	317369	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.588	65	251430	44.595	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	=	89.180%
35) Dibromofluoromethane	8.177	113	215861	48.038	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	=	96.080%
50) Toluene-d8	10.571	98	908272	51.059	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	=	102.120%
62) 4-Bromofluorobenzene	12.847	95	325713	49.283	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	=	98.560%
Target Compounds						
					Qvalue	
8) Diethyl Ether	3.989	74	80333	25.232	ug/l	91
16) Acetone	4.453	43	38803	12.978	ug/l	99
18) Methyl Acetate	5.053	43	29419	3.376	ug/l	96
20) Methylene Chloride	5.300	84	7551	1.349	ug/l #	84
25) 2-Butanone	7.494	43	8133	1.673	ug/l	93
29) Tetrahydrofuran	7.859	42	887	0.280	ug/l #	70
31) Cyclohexane	8.235	56	7096	0.776	ug/l #	1
36) 1,1-Dichloropropene	8.230	75	31790	4.748	ug/l #	49
37) Ethyl Acetate	7.577	43	22286	2.615	ug/l	98
38) Carbon Tetrachloride	8.230	117	39325	5.982	ug/l #	17
43) Isopropyl Acetate	8.700	43	13501	0.987	ug/l	93
45) 1,2-Dichloropropane	9.741	63	1682	0.316	ug/l #	43
48) Methyl methacrylate	9.747	41	98948	15.714	ug/l #	35
49) 1,4-Dioxane	9.753	88	62	0.541	ug/l #	1
51) 4-Methyl-2-Pentanone	10.488	43	4126	0.501	ug/l #	33
54) cis-1,3-Dichloropropene	10.359	75	68999	7.922	ug/l #	54
57) 1,3-Dichloropropane	11.212	76	4448	0.498	ug/l #	43
59) 2-Hexanone	11.212	43	61344	11.563	ug/l #	45
71) Bromoform	12.847	173	1737	0.500	ug/l #	1
76) 1,2,3-Trichloropropane	12.847	75	148046	19.624	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	148046	45.174	ug/l #	16
95) Naphthalene	15.635	128	33061	1.388	ug/l	97

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

Quant Time: Jun 10 03:35:32 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N060625W.M
Quant Title : SW846 8260
QLast Update : Sat Jun 07 02:12:50 2025
Response via : Initial Calibration

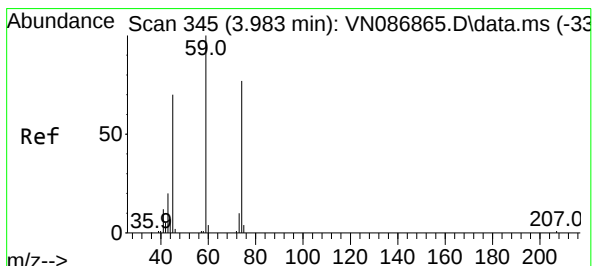
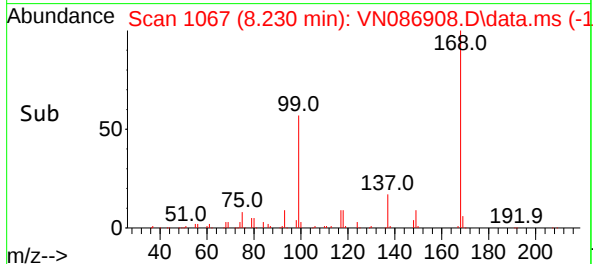
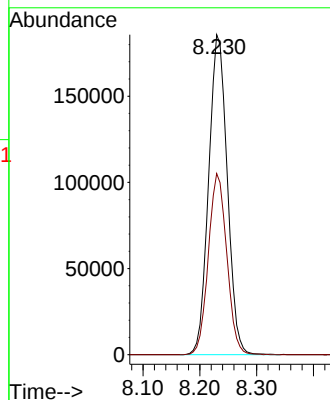
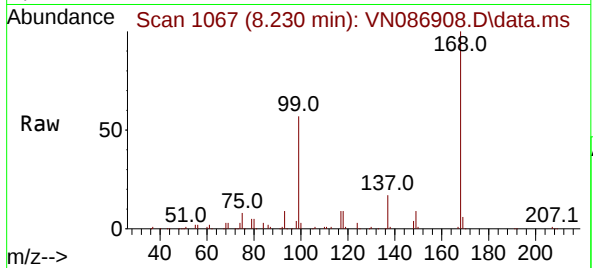




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.230 min Scan# 1068
Delta R.T. -0.006 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

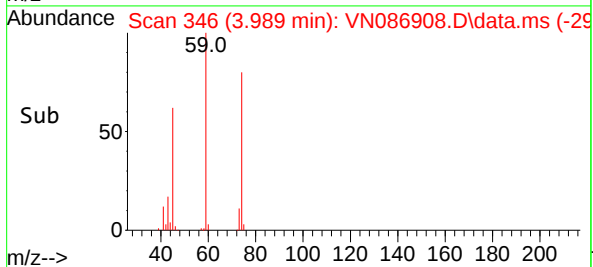
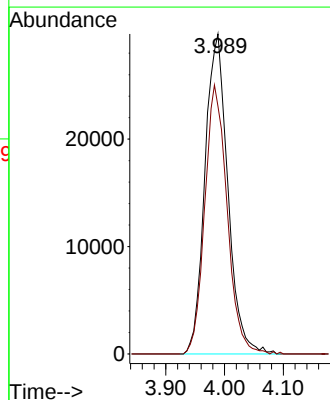
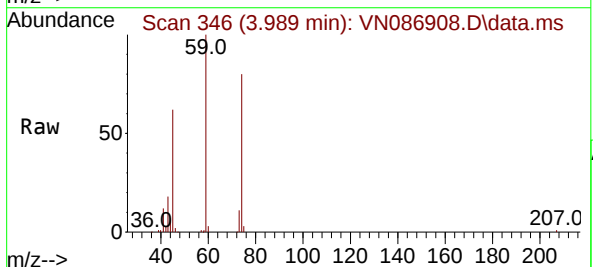
Instrument :
MSVOA_N
ClientSampleId :

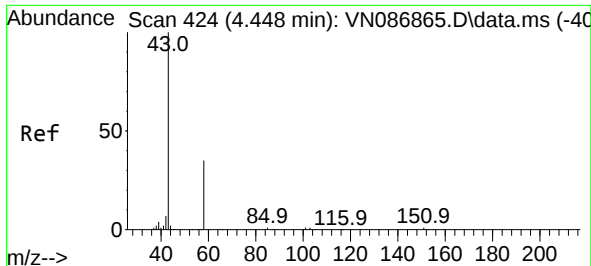
Tgt Ion:168 Resp: 421102
Ion Ratio Lower Upper
168 100
99 56.6 49.1 73.7



#8
Diethyl Ether
Concen: 25.232 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

Tgt Ion: 74 Resp: 80333
Ion Ratio Lower Upper
74 100
45 82.3 45.5 136.5

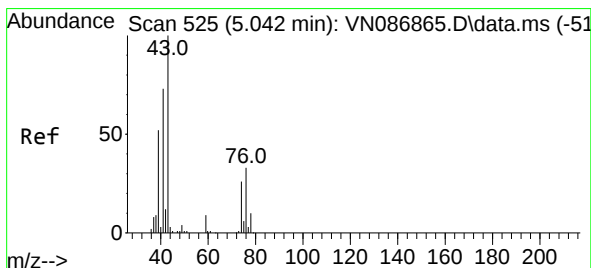
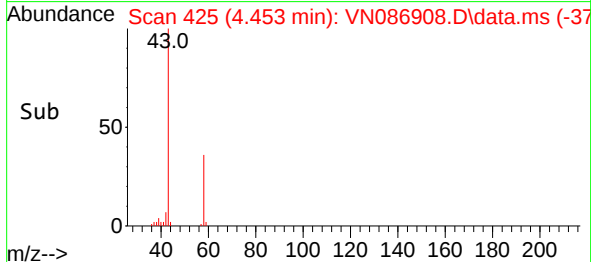
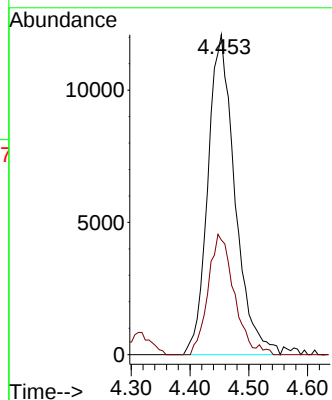
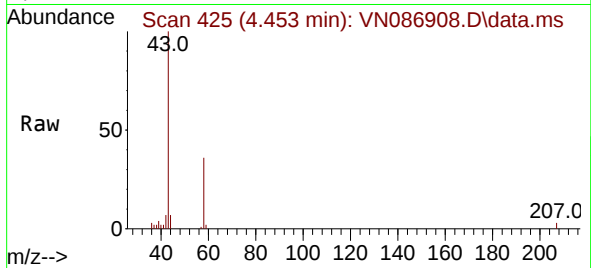




#16
Acetone
Concen: 12.978 ug/l
RT: 4.453 min Scan# 41
Delta R.T. 0.006 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

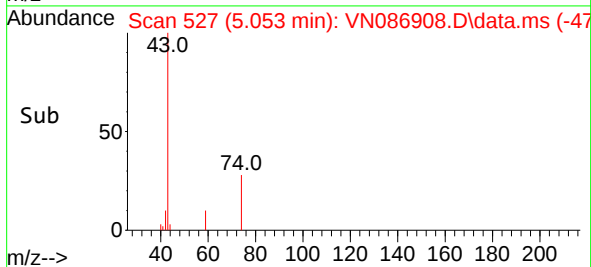
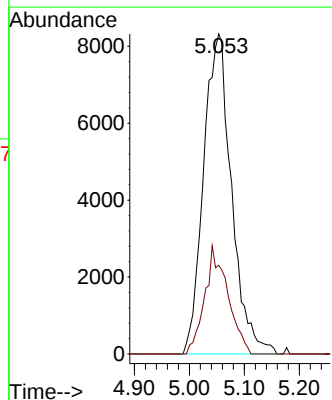
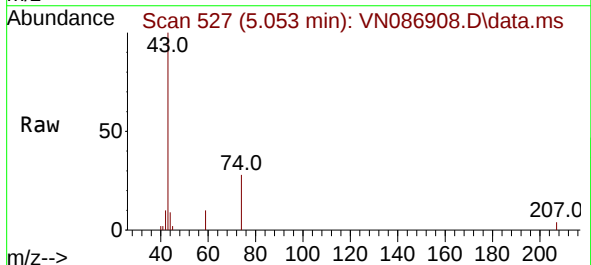
Instrument :
MSVOA_N
ClientSampleId :

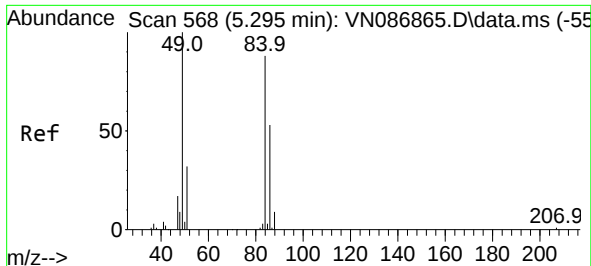
Tgt Ion: 43 Resp: 38803
Ion Ratio Lower Upper
43 100
58 35.9 28.0 42.0



#18
Methyl Acetate
Concen: 3.376 ug/l
RT: 5.053 min Scan# 527
Delta R.T. 0.012 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

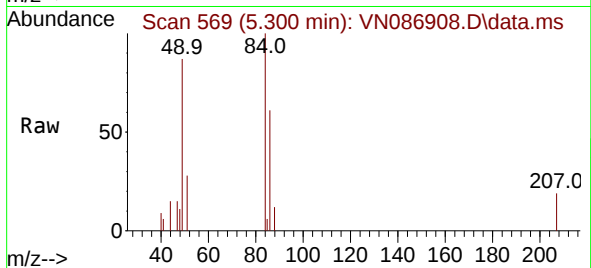
Tgt Ion: 43 Resp: 29419
Ion Ratio Lower Upper
43 100
74 27.9 20.7 31.1





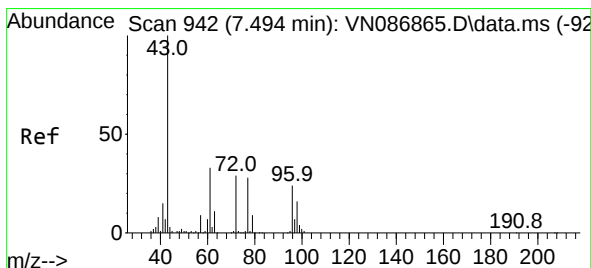
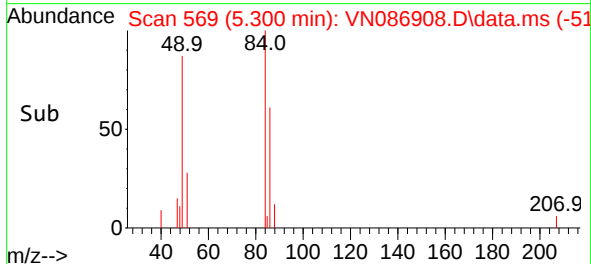
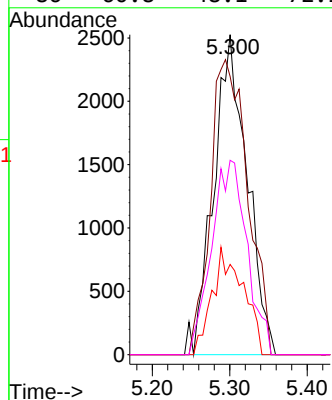
#20
Methylene Chloride
Concen: 1.349 ug/l
RT: 5.300 min Scan# 51
Delta R.T. 0.006 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 7551

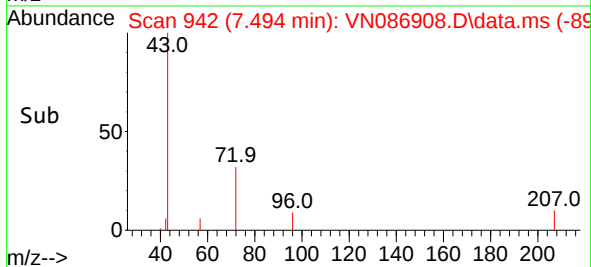
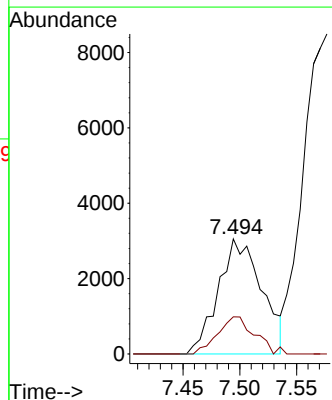
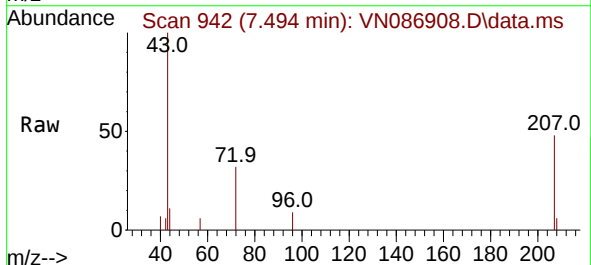
Ion	Ratio	Lower	Upper
84	100		
49	86.9	90.5	135.7#
51	28.2	28.5	42.7#
86	60.8	48.1	72.1

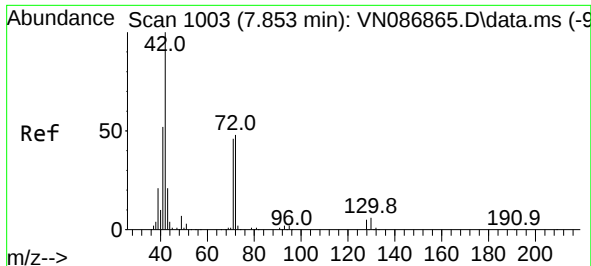


#25
2-Butanone
Concen: 1.673 ug/l
RT: 7.494 min Scan# 942
Delta R.T. -0.000 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

Tgt Ion: 43 Resp: 8133

Ion	Ratio	Lower	Upper
43	100		
72	32.3	23.0	34.6





#29

Tetrahydrofuran

Concen: 0.280 ug/l

RT: 7.859 min Scan# 1068

Delta R.T. 0.006 min

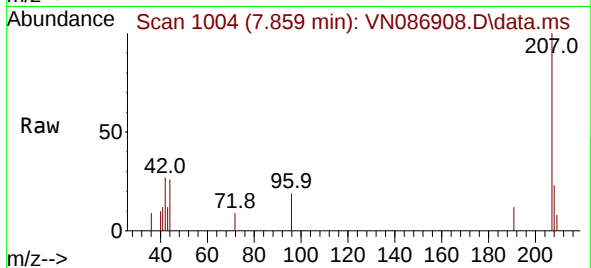
Lab File: VN086908.D

Acq: 09 Jun 2025 16:13

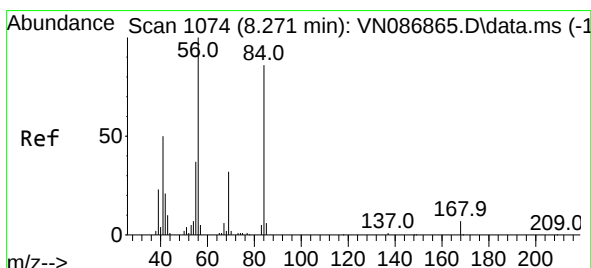
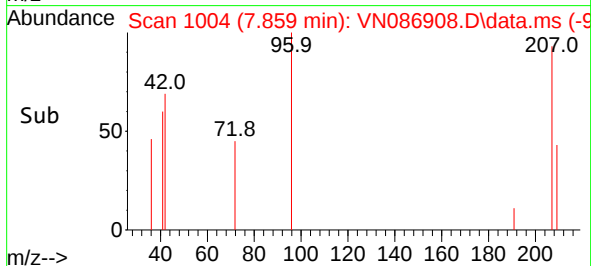
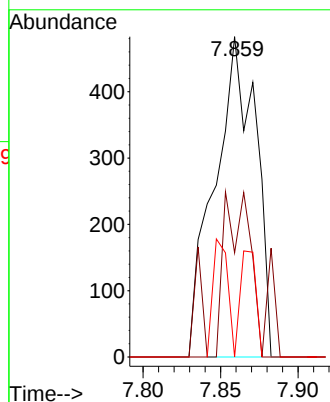
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	42	Resp:	887
Ion Ratio	Lower	Upper	
42	100		
72	38.6	37.8	56.6
71	12.6	35.6	53.4#



#31

Cyclohexane

Concen: 0.776 ug/l

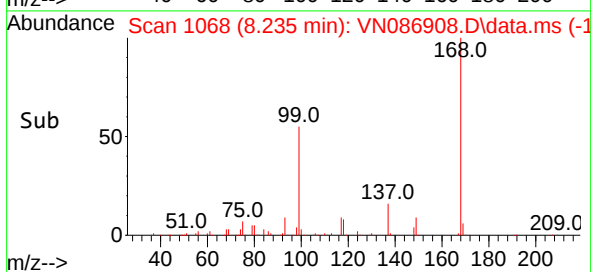
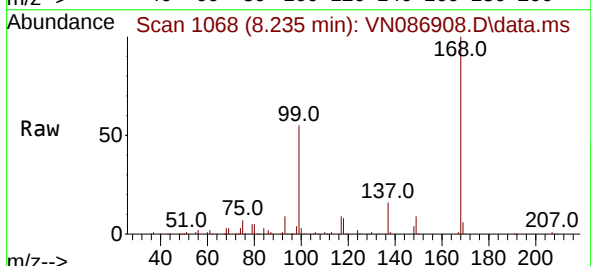
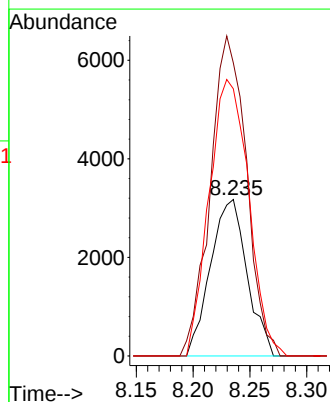
RT: 8.235 min Scan# 1068

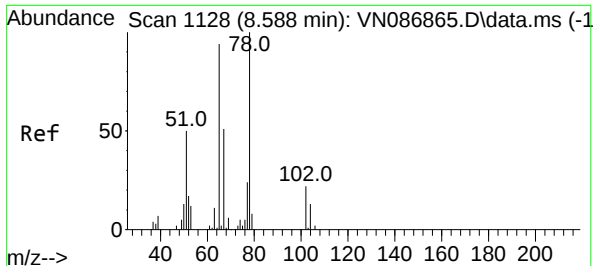
Delta R.T. -0.035 min

Lab File: VN086908.D

Acq: 09 Jun 2025 16:13

Tgt Ion:	56	Resp:	7096
Ion Ratio	Lower	Upper	
56	100		
69	187.3	25.4	38.0#
84	170.8	68.8	103.2#





#33

1,2-Dichloroethane-d4

Concen: 44.595 ug/l

RT: 8.588 min Scan# 1128

Delta R.T. -0.000 min

Lab File: VN086908.D

Acq: 09 Jun 2025 16:13

Instrument :

MSVOA_N

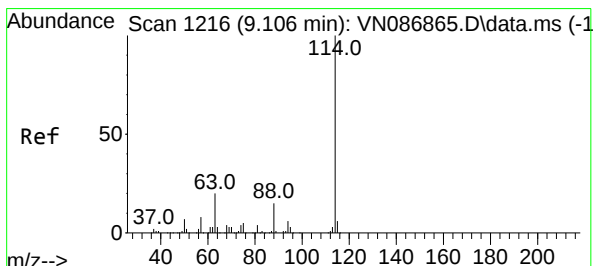
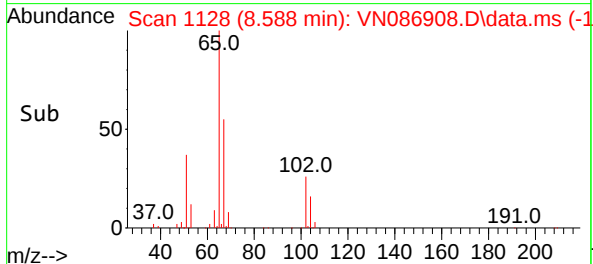
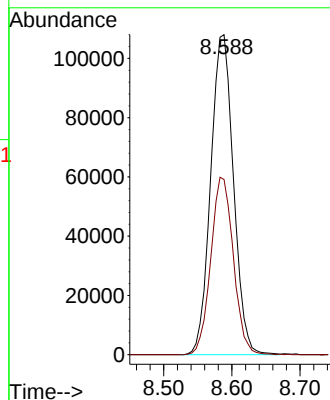
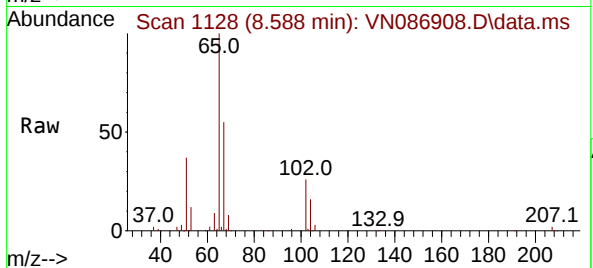
ClientSampleId :

Tgt Ion: 65 Resp: 251430

Ion Ratio Lower Upper

65 100

67 54.8 0.0 105.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 1216

Delta R.T. -0.000 min

Lab File: VN086908.D

Acq: 09 Jun 2025 16:13

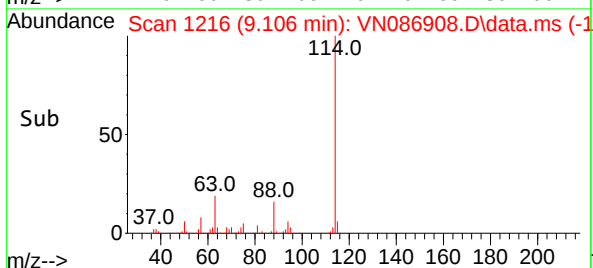
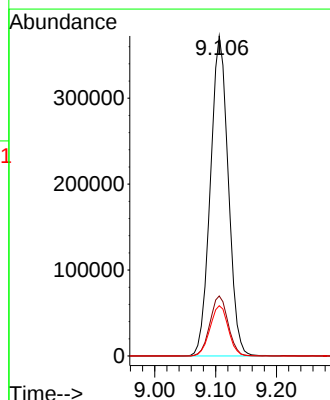
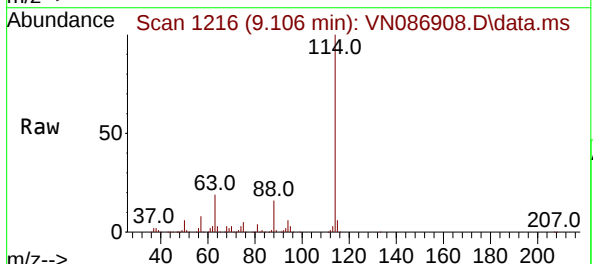
Tgt Ion: 114 Resp: 758244

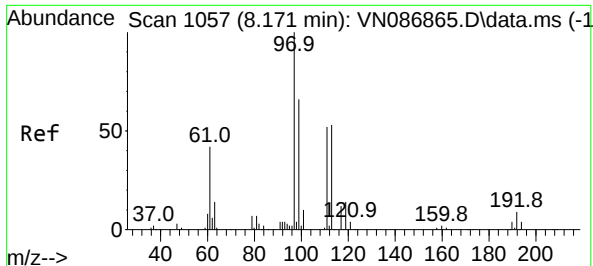
Ion Ratio Lower Upper

114 100

63 18.7 0.0 39.6

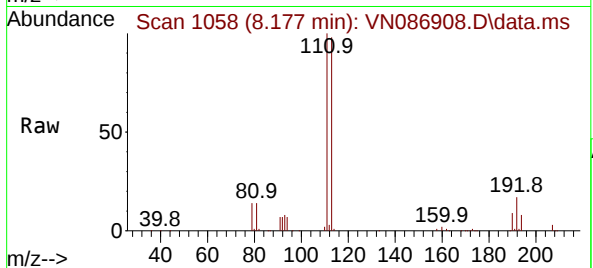
88 15.7 0.0 30.2



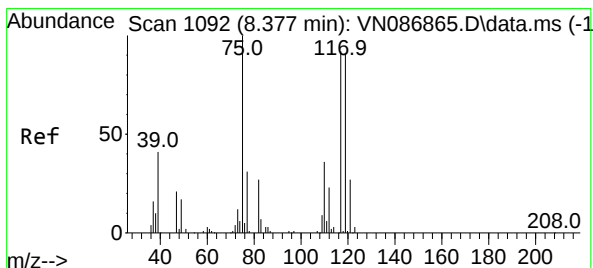
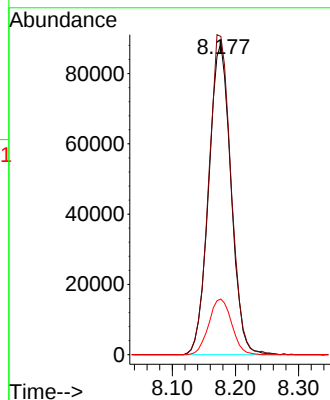
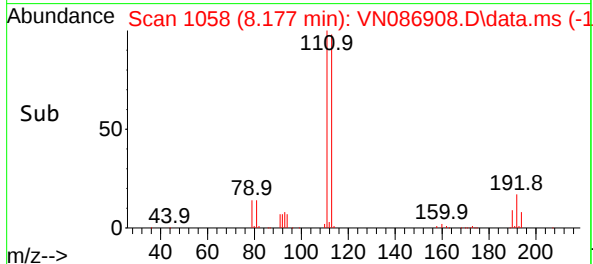


#35
Dibromofluoromethane
Concen: 48.038 ug/l
RT: 8.177 min Scan# 1057
Delta R.T. 0.006 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

Instrument :
MSVOA_N
ClientSampleId :

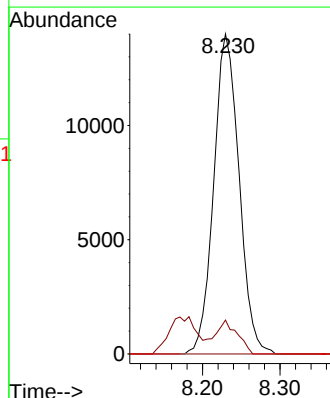
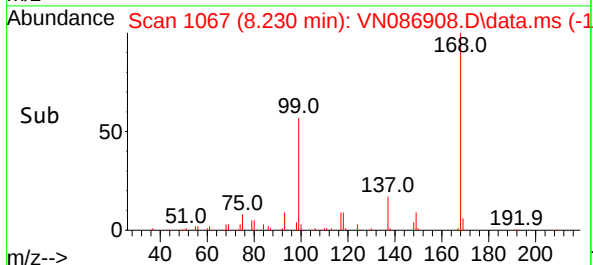
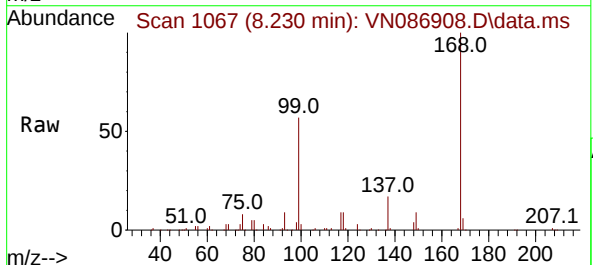


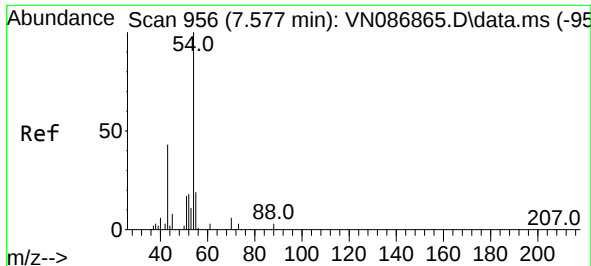
Tgt Ion:113 Resp: 215861
Ion Ratio Lower Upper
113 100
111 103.3 84.2 126.2
192 18.5 14.2 21.4



#36
1,1-Dichloropropene
Concen: 4.748 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.147 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

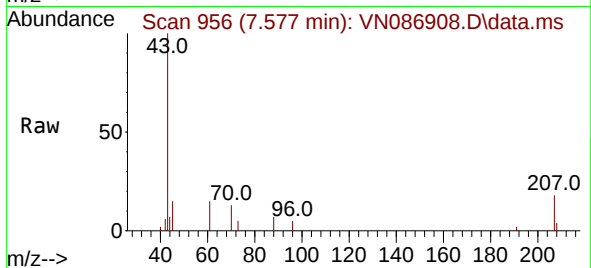
Tgt Ion: 75 Resp: 31790
Ion Ratio Lower Upper
75 100
110 8.9 17.6 52.9#
77 0.0 25.3 37.9#



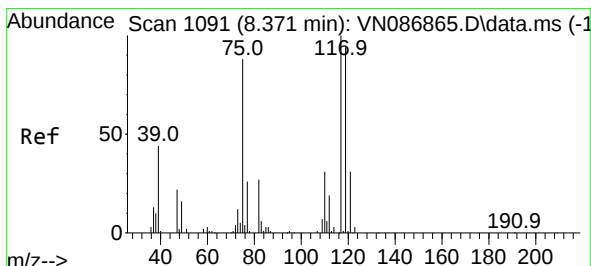
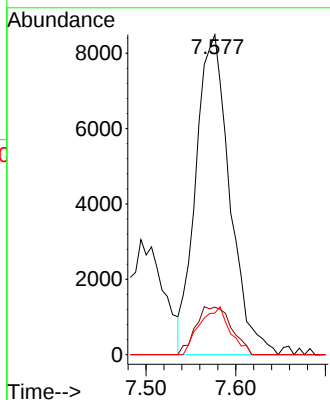
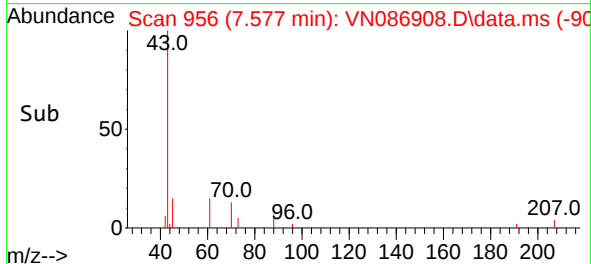


#37
Ethyl Acetate
Concen: 2.615 ug/l
RT: 7.577 min Scan# 91
Delta R.T. -0.000 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

Instrument :
MSVOA_N
ClientSampleId :

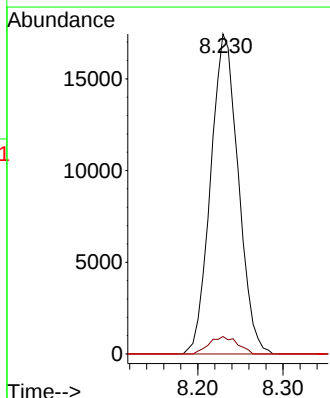
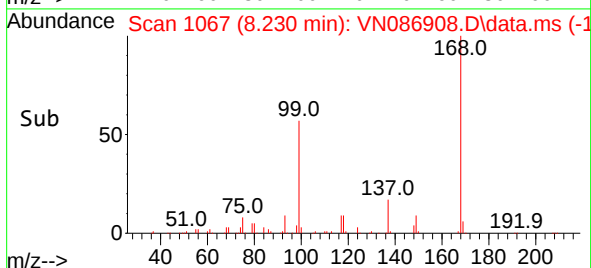
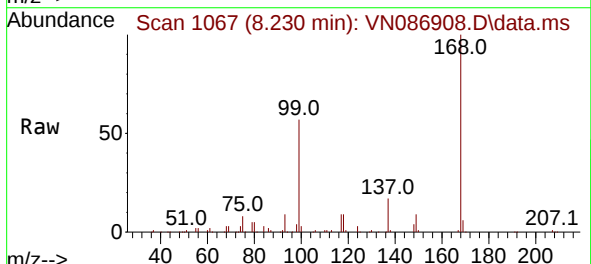


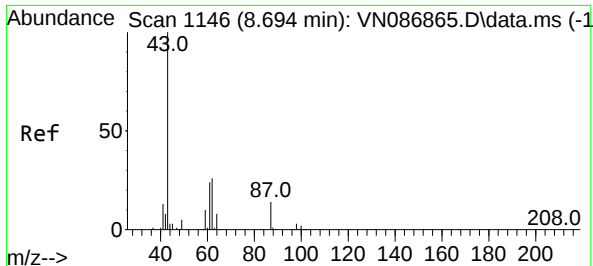
Tgt Ion: 43 Resp: 22286
Ion Ratio Lower Upper
43 100
61 15.8 12.1 18.1
70 13.3 9.8 14.6



#38
Carbon Tetrachloride
Concen: 5.982 ug/l
RT: 8.230 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

Tgt Ion: 117 Resp: 39325
Ion Ratio Lower Upper
117 100
119 5.5 75.0 112.6#
121 0.0 24.9 37.3#

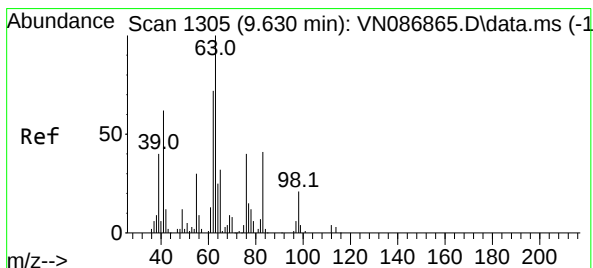
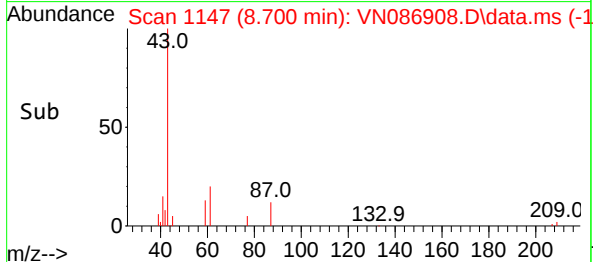
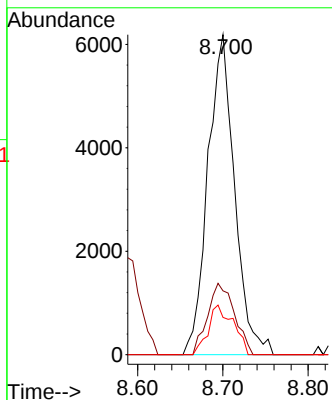
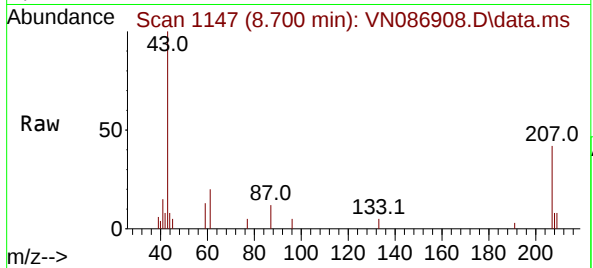




#43
Isopropyl Acetate
Concen: 0.987 ug/l
RT: 8.700 min Scan# 1146
Delta R.T. 0.006 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

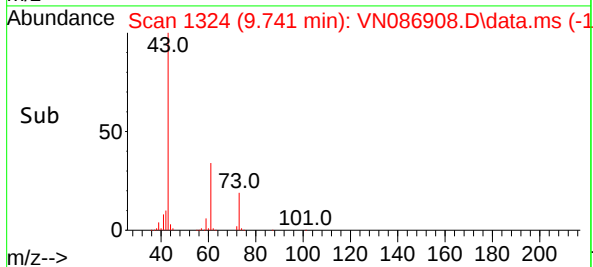
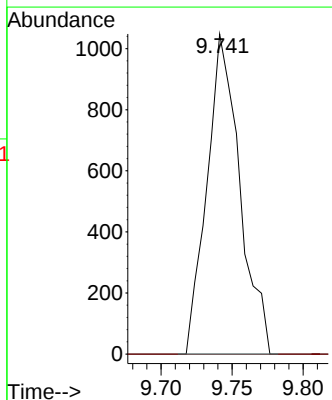
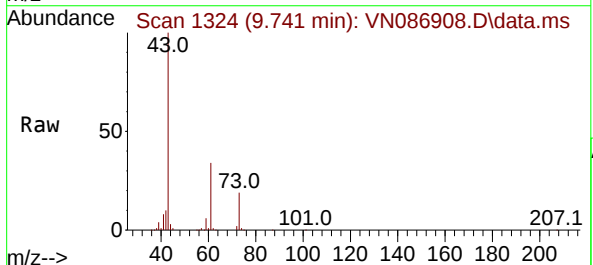
Instrument :
MSVOA_N
ClientSampleId :

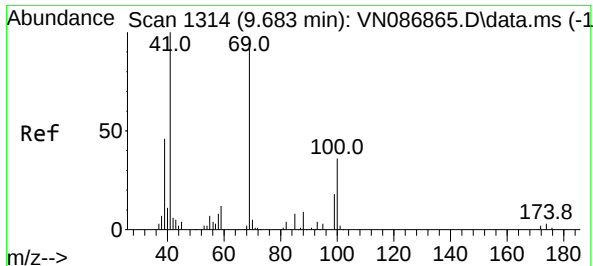
Tgt Ion	Ratio	Lower	Upper
43	100		
61	22.4	22.1	33.1
87	14.5	11.8	17.6



#45
1,2-Dichloropropane
Concen: 0.316 ug/l
RT: 9.741 min Scan# 1324
Delta R.T. 0.112 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

Tgt Ion	Ratio	Lower	Upper
63	100		
65	0.0	25.5	38.3#





#48

Methyl methacrylate

Concen: 15.714 ug/l

RT: 9.747 min Scan# 1325

Delta R.T. 0.065 min

Lab File: VN086908.D

Acq: 09 Jun 2025 16:13

Instrument :

MSVOA_N

ClientSampleId :

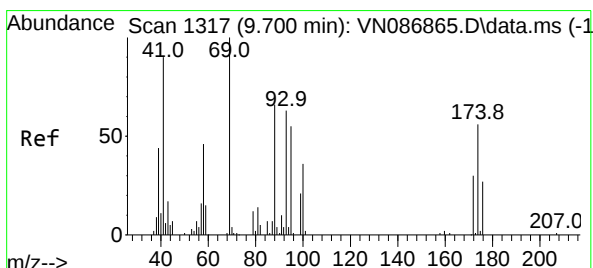
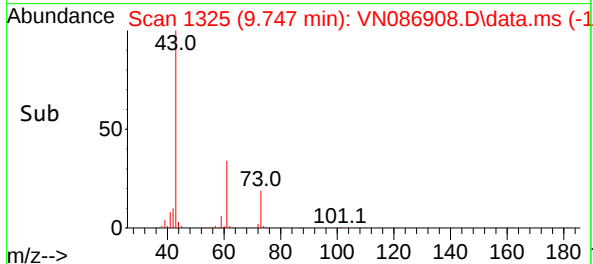
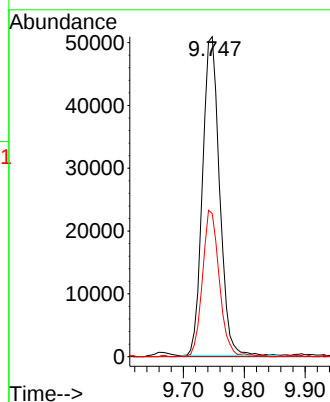
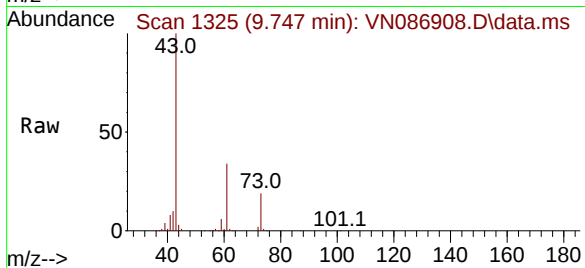
Tgt Ion: 41 Resp: 98948

Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 45.6 40.2 60.4



#49

1,4-Dioxane

Concen: 0.541 ug/l

RT: 9.753 min Scan# 1326

Delta R.T. 0.053 min

Lab File: VN086908.D

Acq: 09 Jun 2025 16:13

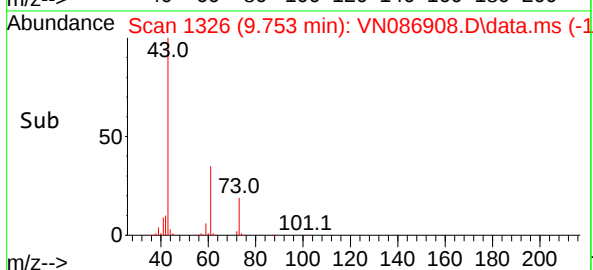
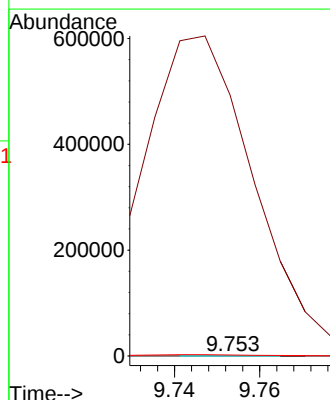
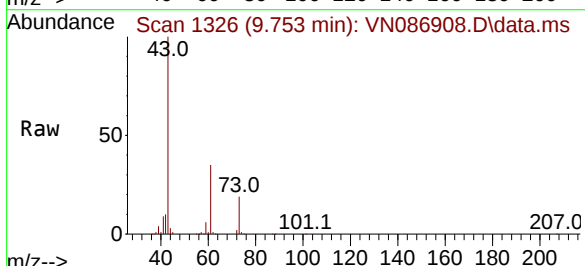
Tgt Ion: 88 Resp: 62

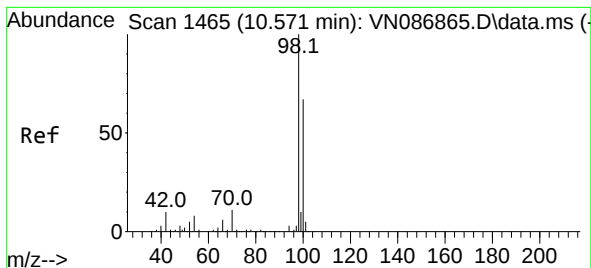
Ion Ratio Lower Upper

88 100

43 1875982.3 0.0 0.0#

58 7750.0 57.7 86.5#

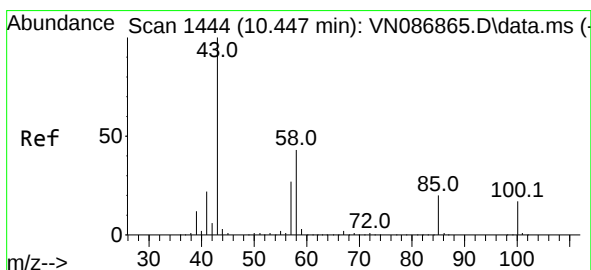
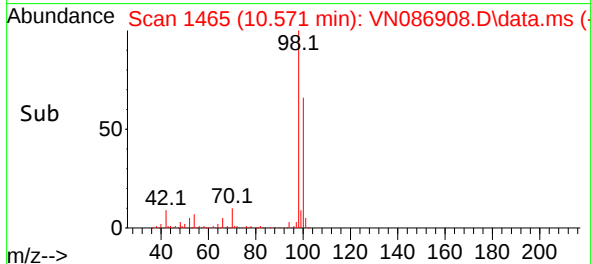
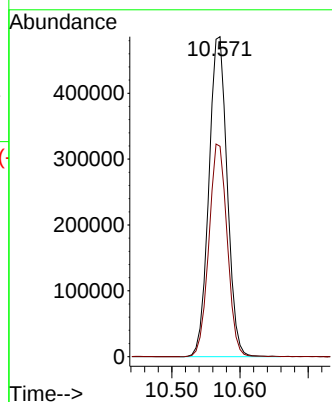
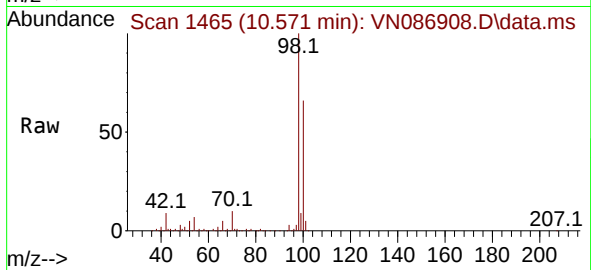




#50
Toluene-d8
Concen: 51.059 ug/l
RT: 10.571 min Scan# 1465
Delta R.T. -0.000 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

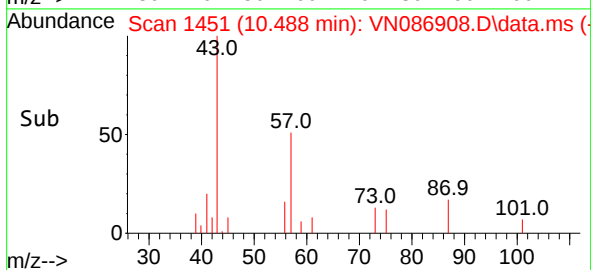
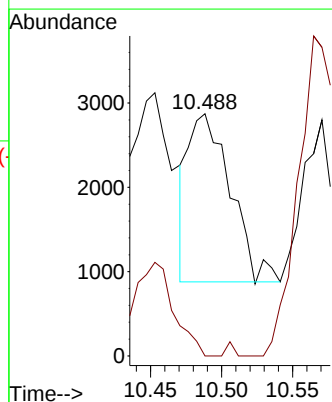
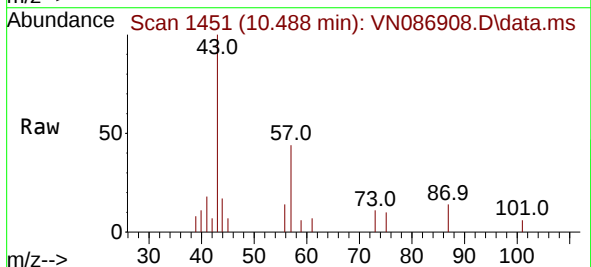
Instrument :
MSVOA_N
ClientSampleId :

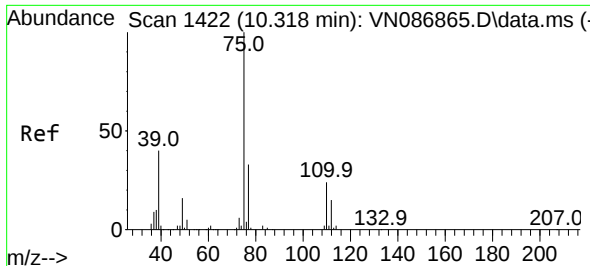
Tgt Ion: 98 Resp: 908272
Ion Ratio Lower Upper
98 100
100 66.4 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 0.501 ug/l
RT: 10.488 min Scan# 1451
Delta R.T. 0.041 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

Tgt Ion: 43 Resp: 4126
Ion Ratio Lower Upper
43 100
58 0.0 34.2 51.4#

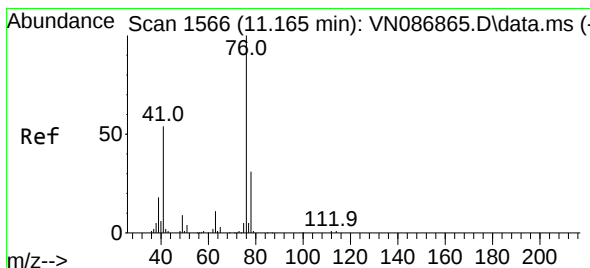
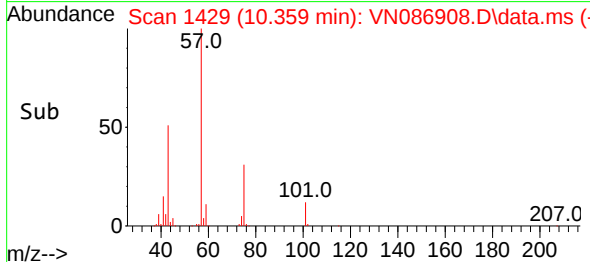
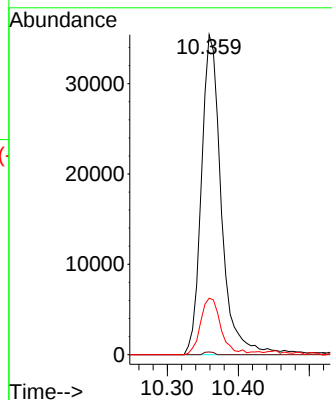
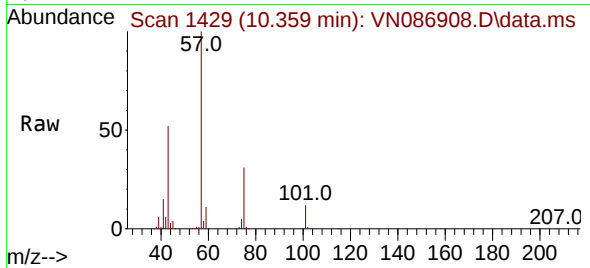




#54
cis-1,3-Dichloropropene
Concen: 7.922 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. 0.041 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

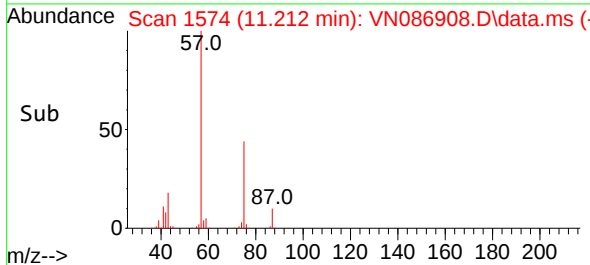
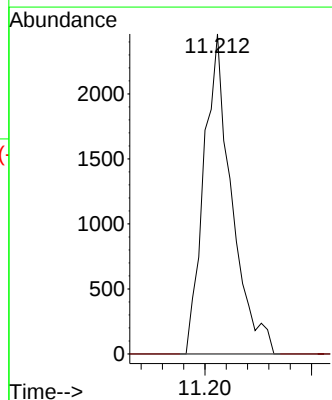
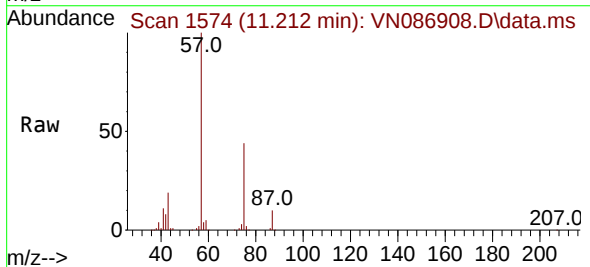
Instrument :
MSVOA_N
ClientSampleId :

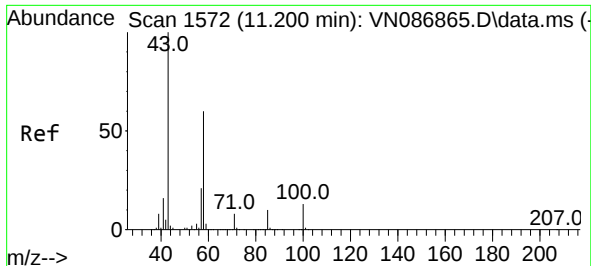
Tgt Ion: 75 Resp: 68999
Ion Ratio Lower Upper
75 100
77 0.9 26.2 39.4#
39 17.7 32.3 48.5#



#57
1,3-Dichloropropane
Concen: 0.498 ug/l
RT: 11.212 min Scan# 1574
Delta R.T. 0.047 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

Tgt Ion: 76 Resp: 4448
Ion Ratio Lower Upper
76 100
78 0.0 25.3 37.9#

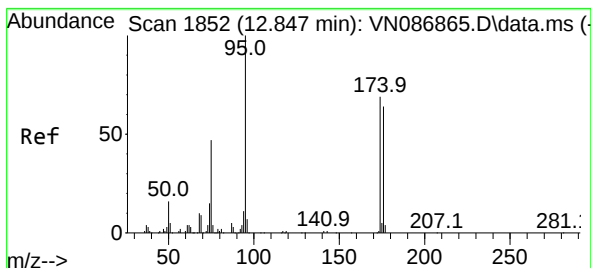
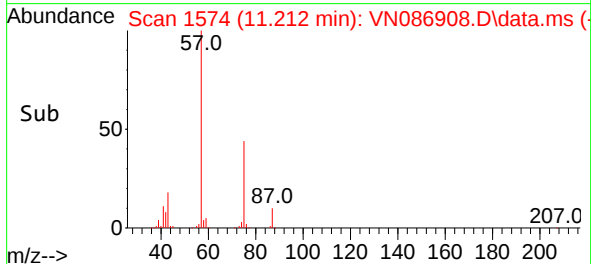
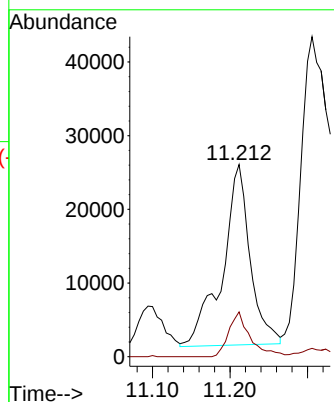
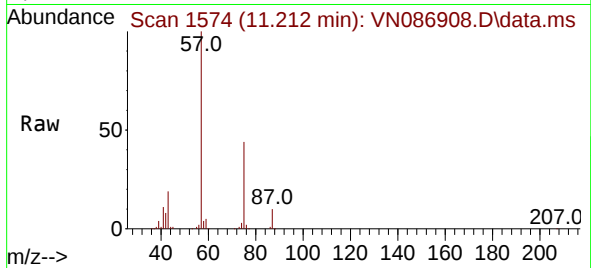




#59
2-Hexanone
Concen: 11.563 ug/l
RT: 11.212 min Scan# 11574
Delta R.T. 0.012 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

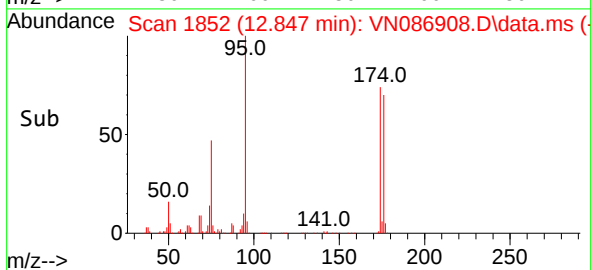
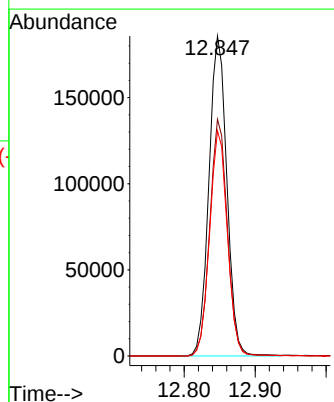
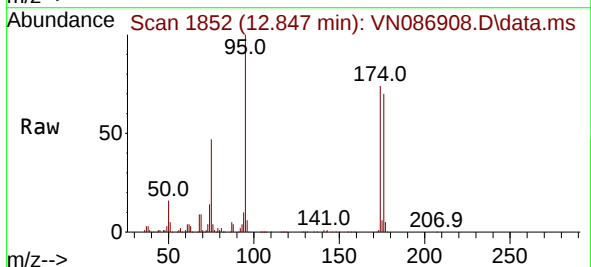
Instrument :
MSVOA_N
ClientSampleId :

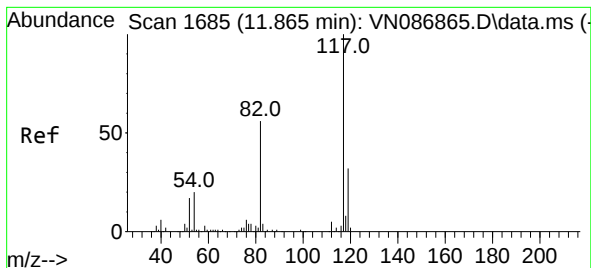
Tgt Ion: 43 Resp: 61344
Ion Ratio Lower Upper
43 100
58 19.1 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 49.283 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

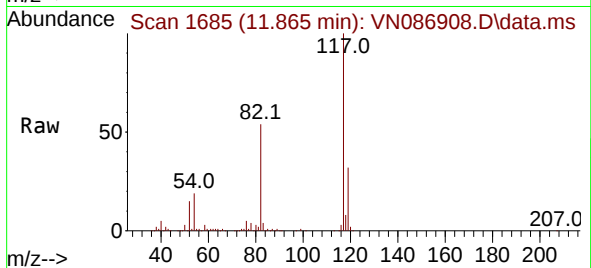
Tgt Ion: 95 Resp: 325713
Ion Ratio Lower Upper
95 100
174 72.5 0.0 141.8
176 69.7 0.0 132.6



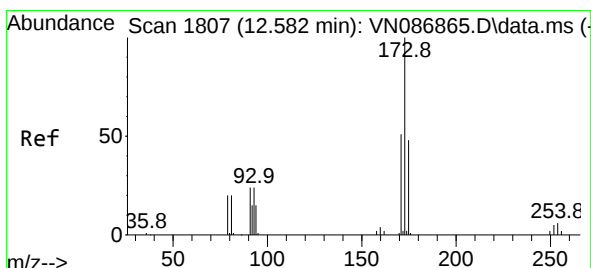
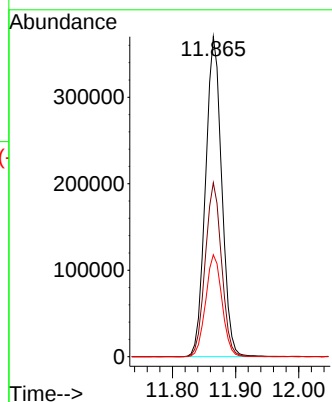
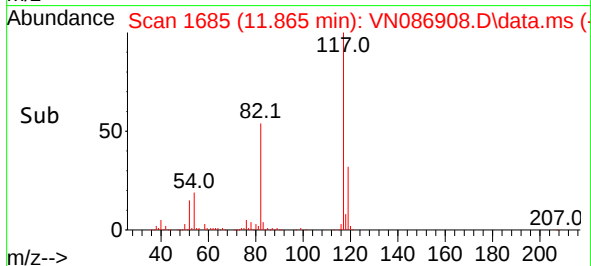


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 117
Delta R.T. -0.000 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

Instrument :
MSVOA_N
ClientSampleId :

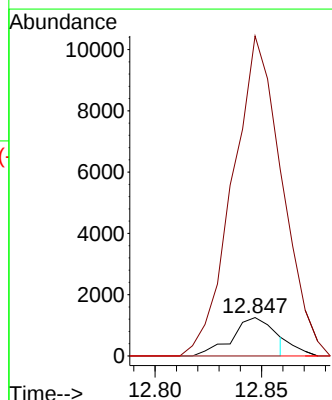
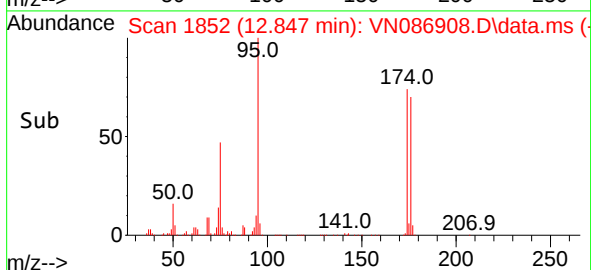
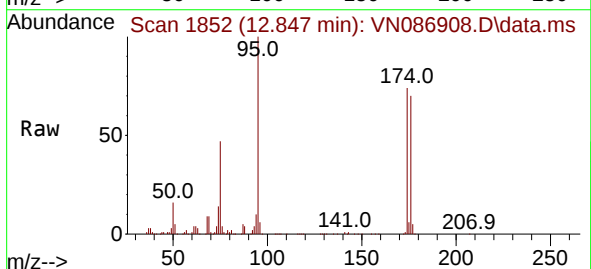


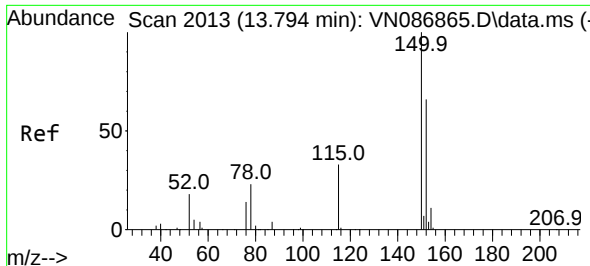
Tgt Ion:117 Resp: 661773
Ion Ratio Lower Upper
117 100
82 54.4 44.6 67.0
119 31.8 25.5 38.3



#71
Bromoform
Concen: 0.500 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.265 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

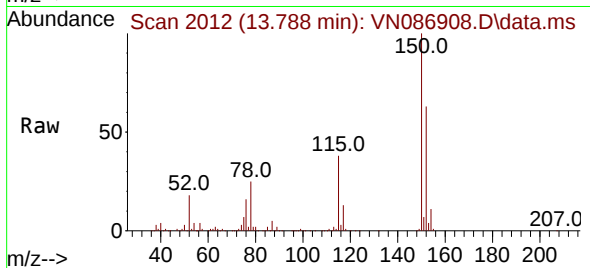
Tgt Ion:173 Resp: 1737
Ion Ratio Lower Upper
173 100
175 859.2 24.1 72.4#
254 0.0 0.0 0.0



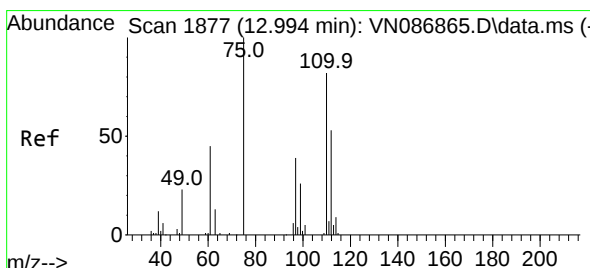
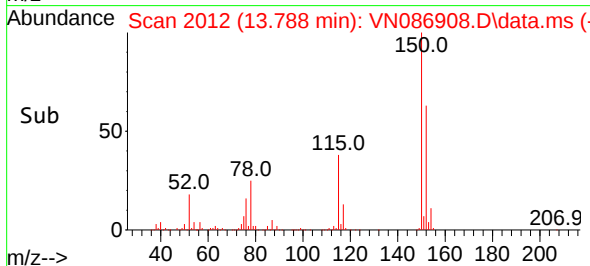
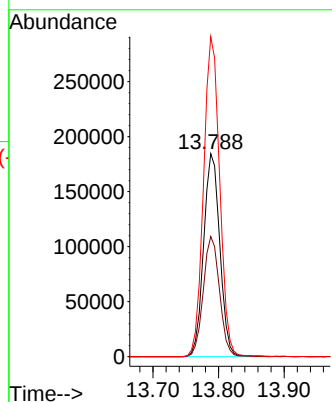


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 20
 Delta R.T. -0.006 min
 Lab File: VN086908.D
 Acq: 09 Jun 2025 16:13

Instrument :
 MSVOA_N
 ClientSampleId :

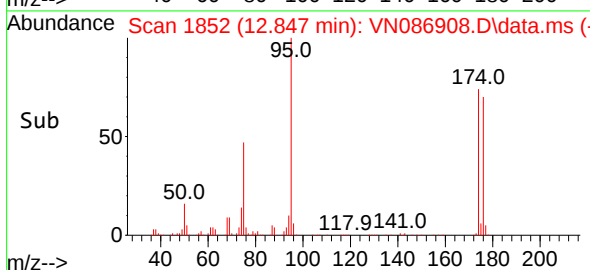
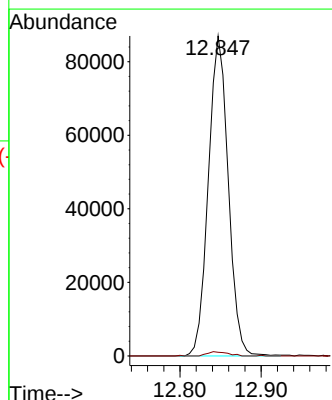
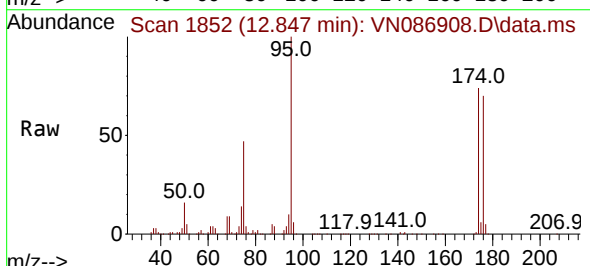


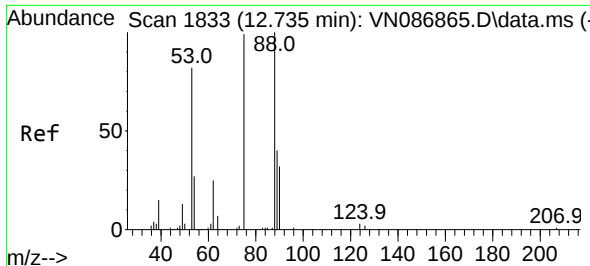
Tgt Ion:152 Resp: 317369
 Ion Ratio Lower Upper
 152 100
 115 59.5 30.1 90.5
 150 157.1 0.0 345.0



#76
 1,2,3-Trichloropropane
 Concen: 19.624 ug/l
 RT: 12.847 min Scan# 1852
 Delta R.T. -0.147 min
 Lab File: VN086908.D
 Acq: 09 Jun 2025 16:13

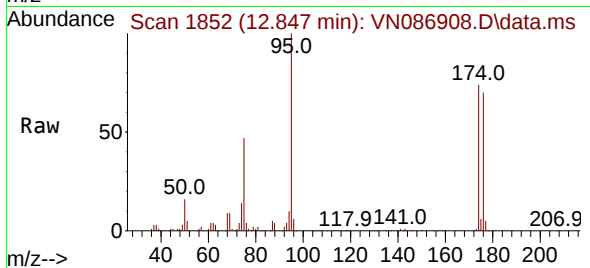
Tgt Ion: 75 Resp: 148046
 Ion Ratio Lower Upper
 75 100
 77 1.4 79.3 237.9#



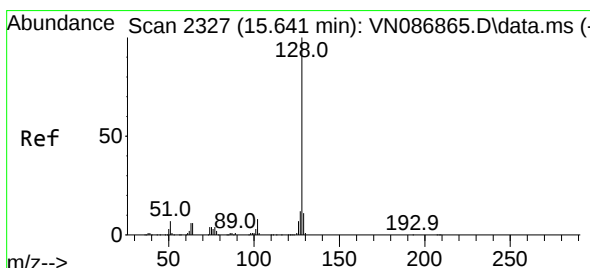
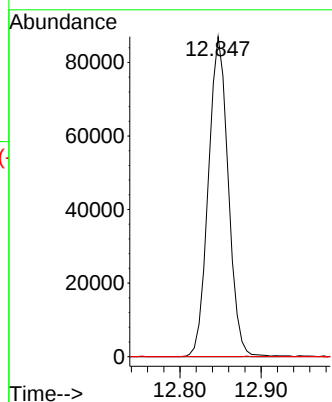
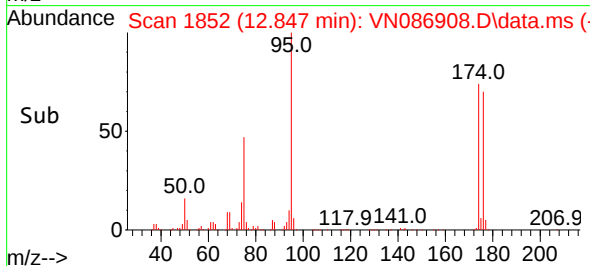


#81
trans-1,4-Dichloro-2-butene
Concen: 45.174 ug/l
RT: 12.847 min Scan# 1833
Delta R.T. 0.112 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 75 Resp: 148046
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#



#95
Naphthalene
Concen: 1.388 ug/l
RT: 15.635 min Scan# 2326
Delta R.T. -0.006 min
Lab File: VN086908.D
Acq: 09 Jun 2025 16:13

Tgt Ion: 128 Resp: 33061
Ion Ratio Lower Upper
128 100
127 11.6 10.2 15.2
129 12.1 8.8 13.2

