

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN062625\
 Data File : VN087186.D
 Acq On : 26 Jun 2025 12:01
 Operator : JC\MD
 Sample : PB168572TB
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB168572TB

Quant Time: Jun 27 01:22:58 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)

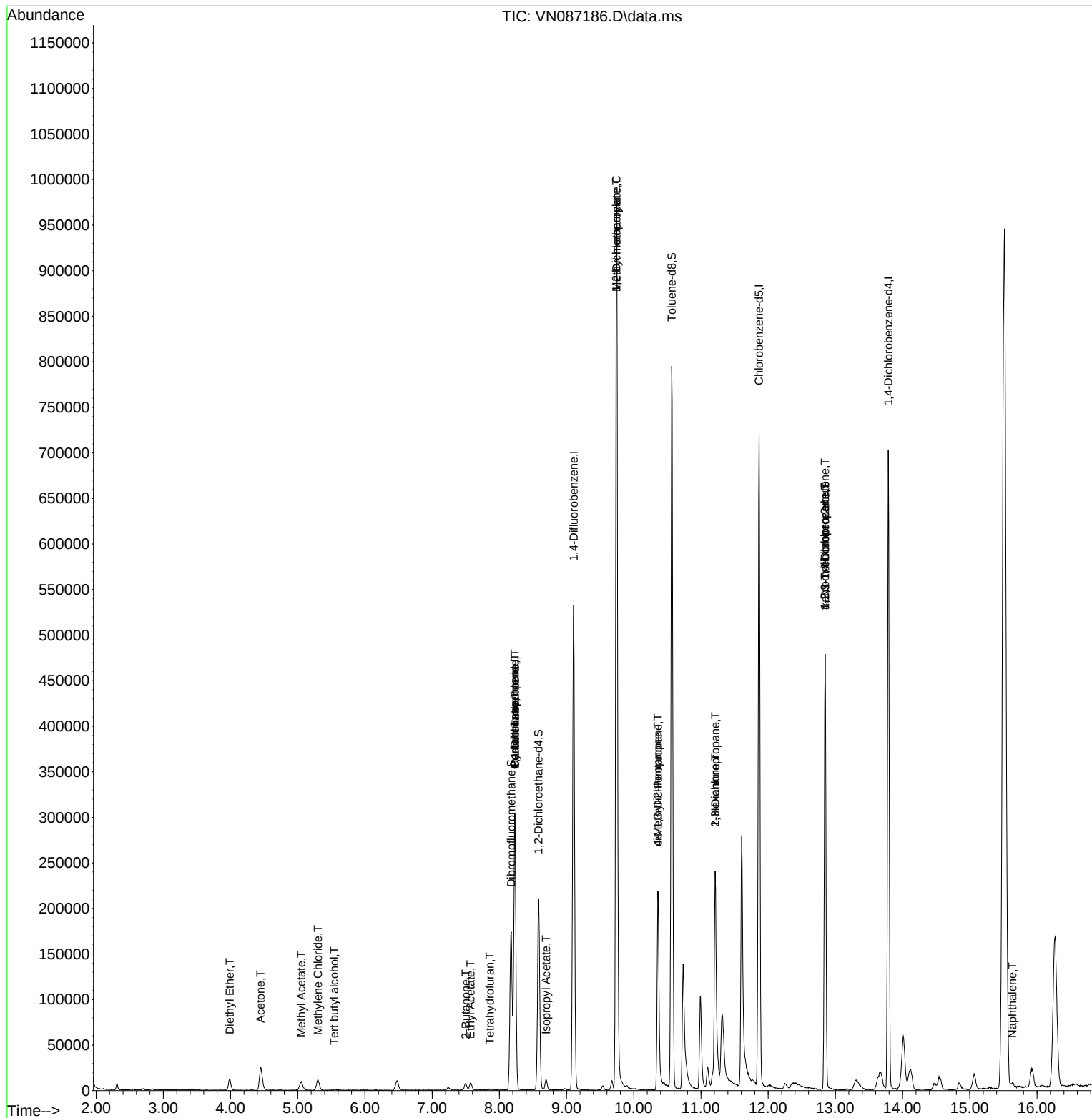
Internal Standards						
1) Pentafluorobenzene	8.229	168	224027	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.106	114	466421	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	427777	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	191913	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.582	65	172227	57.419	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 114.840%			
35) Dibromofluoromethane	8.177	113	134379	48.615	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 97.240%			
50) Toluene-d8	10.565	98	564159	51.557	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 103.120%			
62) 4-Bromofluorobenzene	12.847	95	187412	46.099	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 92.200%			
Target Compounds					Qvalue	
8) Diethyl Ether	3.989	74	7475	4.413	ug/l	96
11) Tert butyl alcohol	5.541	59	1847	2.269	ug/l #	73
16) Acetone	4.447	43	49825	31.324	ug/l	91
18) Methyl Acetate	5.053	43	21762	4.695	ug/l	94
20) Methylene Chloride	5.300	84	9904	3.326	ug/l	91
25) 2-Butanone	7.500	43	13474	5.211	ug/l	95
29) Tetrahydrofuran	7.859	42	710	0.422	ug/l #	43
31) Cyclohexane	8.229	56	4995	1.027	ug/l #	1
36) 1,1-Dichloropropene	8.229	75	18771	4.557	ug/l #	46
37) Ethyl Acetate	7.571	43	13180	2.514	ug/l #	94
38) Carbon Tetrachloride	8.229	117	22665	5.605	ug/l #	18
43) Isopropyl Acetate	8.694	43	13455	1.599	ug/l	92
45) 1,2-Dichloropropane	9.741	63	1406	0.429	ug/l #	43
48) Methyl methacrylate	9.741	41	89736	23.168	ug/l #	37
51) 4-Methyl-2-Pentanone	10.359	43	92208	18.201	ug/l #	44
54) cis-1,3-Dichloropropene	10.359	75	49694	9.275	ug/l #	62
57) 1,3-Dichloropropane	11.212	76	3238	0.589	ug/l #	43
59) 2-Hexanone	11.212	43	41059	12.582	ug/l #	53
76) 1,2,3-Trichloropropane	12.847	75	92771	20.336	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	92771	46.813	ug/l #	16
95) Naphthalene	15.635	128	2918	0.203	ug/l #	82

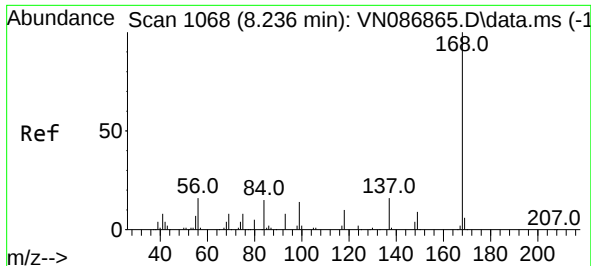
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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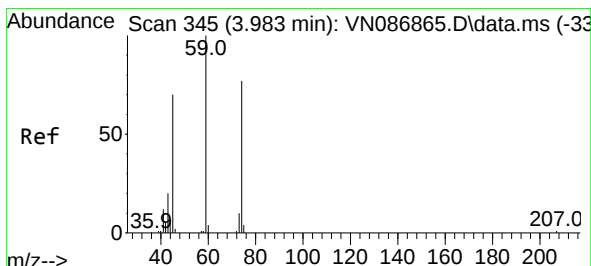
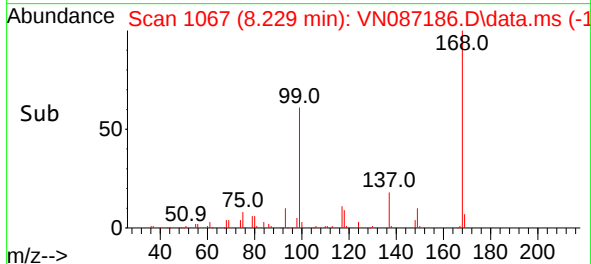
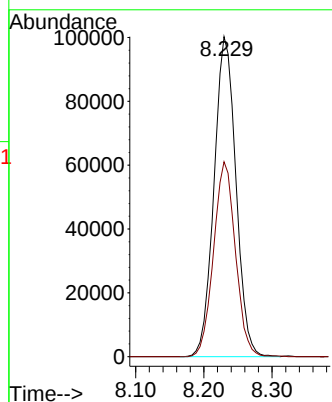
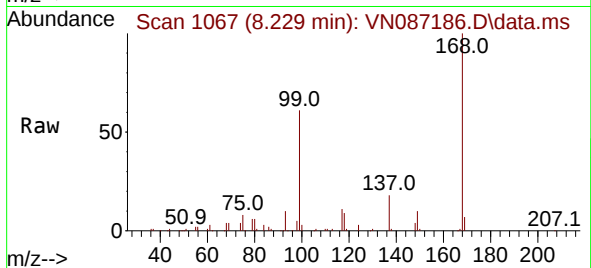




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.007 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

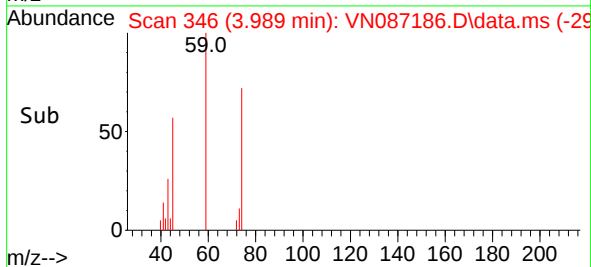
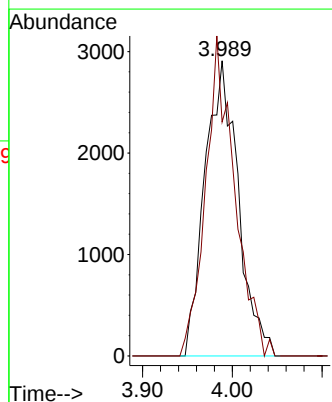
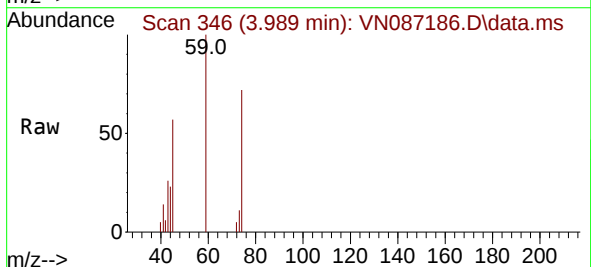
Instrument :
MSVOA_N
ClientSampleId :
PB168572TB

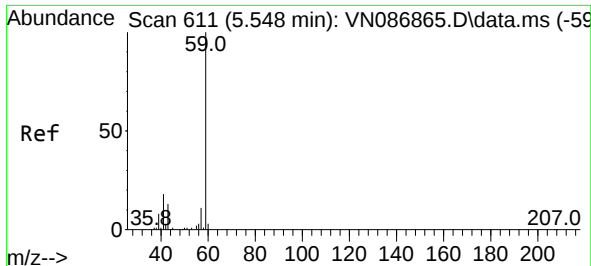
Tgt Ion:168 Resp: 224027
Ion Ratio Lower Upper
168 100
99 60.9 49.1 73.7



#8
Diethyl Ether
Concen: 4.413 ug/l
RT: 3.989 min Scan# 346
Delta R.T. 0.006 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

Tgt Ion: 74 Resp: 7475
Ion Ratio Lower Upper
74 100
45 94.7 45.5 136.5

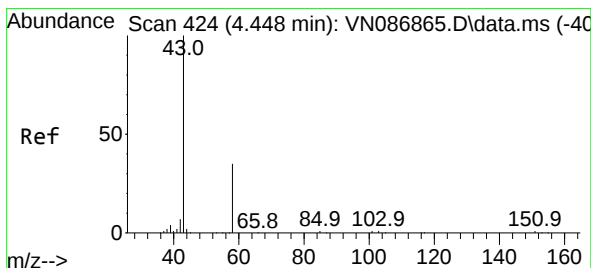
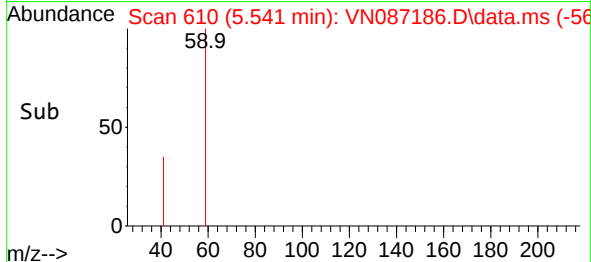
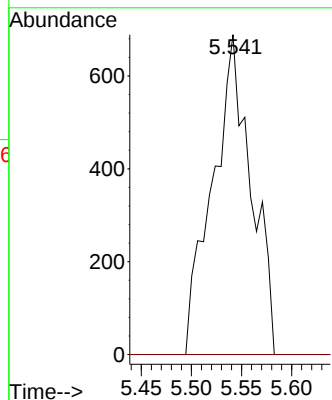
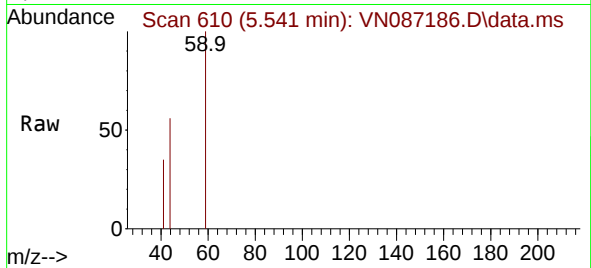




#11
Tert butyl alcohol
Concen: 2.269 ug/l
RT: 5.541 min Scan# 611
Delta R.T. -0.006 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

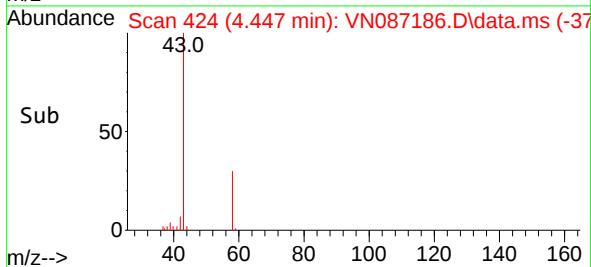
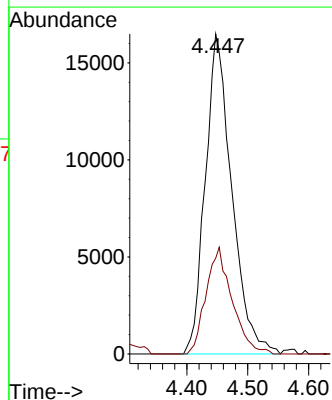
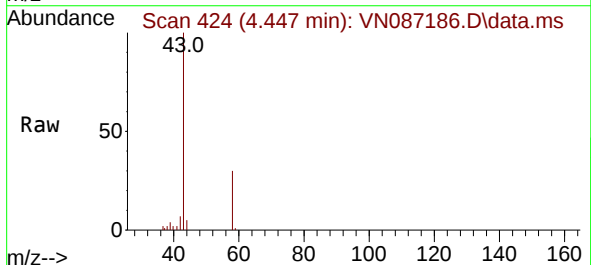
Instrument :
MSVOA_N
ClientSampleId :
PB168572TB

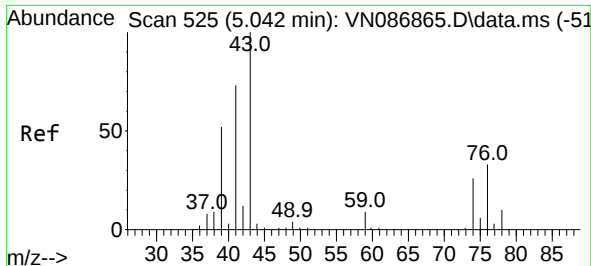
Tgt Ion: 59 Resp: 1847
Ion Ratio Lower Upper
59 100
57 0.0 8.1 12.1#



#16
Acetone
Concen: 31.324 ug/l
RT: 4.447 min Scan# 424
Delta R.T. -0.000 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

Tgt Ion: 43 Resp: 49825
Ion Ratio Lower Upper
43 100
58 30.0 28.0 42.0

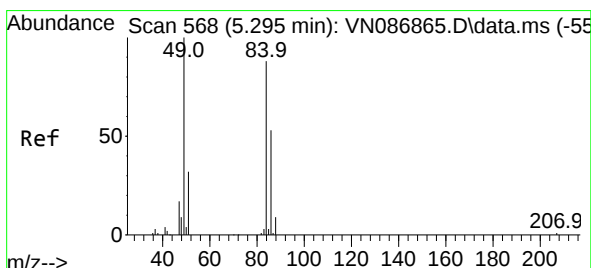
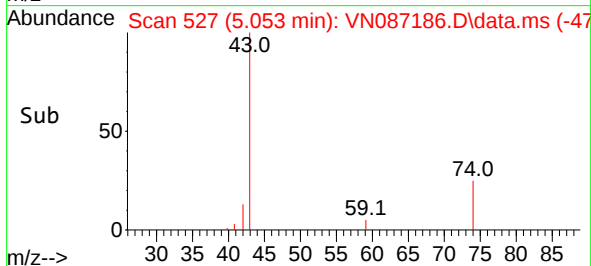
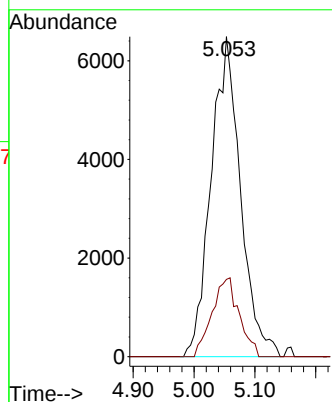
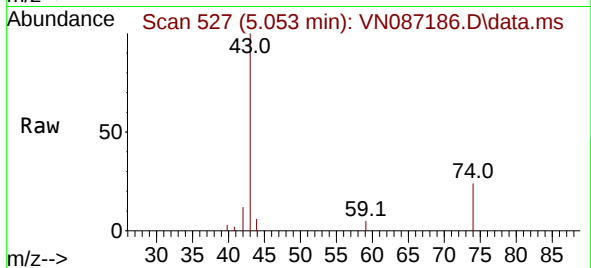




#18
Methyl Acetate
Concen: 4.695 ug/l
RT: 5.053 min Scan# 51
Delta R.T. 0.012 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

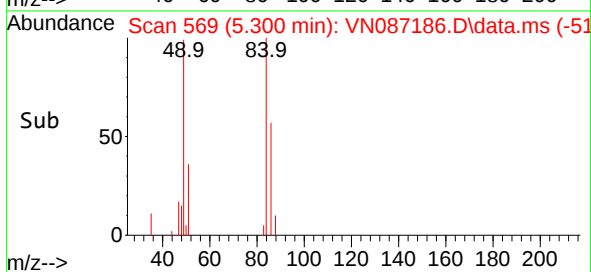
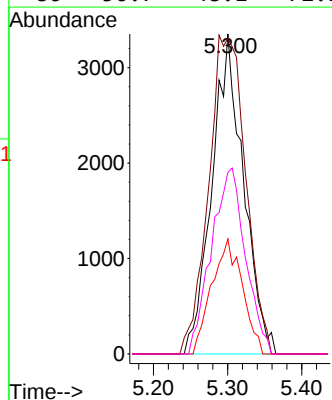
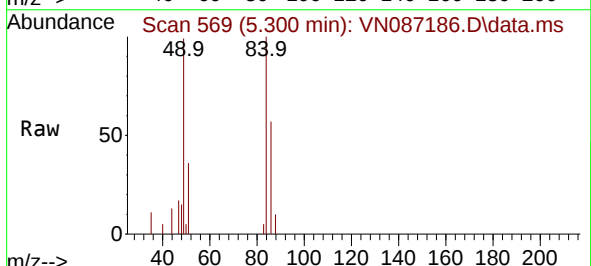
Instrument :
MSVOA_N
ClientSampleId :
PB168572TB

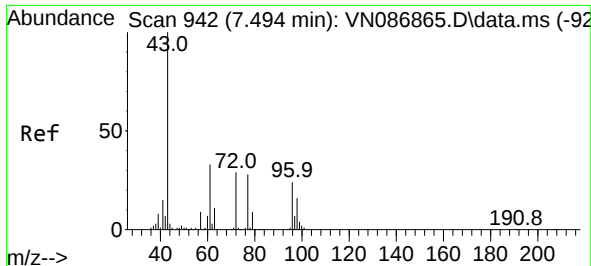
Tgt Ion: 43 Resp: 21762
Ion Ratio Lower Upper
43 100
74 22.7 20.7 31.1



#20
Methylene Chloride
Concen: 3.326 ug/l
RT: 5.300 min Scan# 569
Delta R.T. 0.006 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

Tgt Ion: 84 Resp: 9904
Ion Ratio Lower Upper
84 100
49 98.7 90.5 135.7
51 36.0 28.5 42.7
86 56.7 48.1 72.1

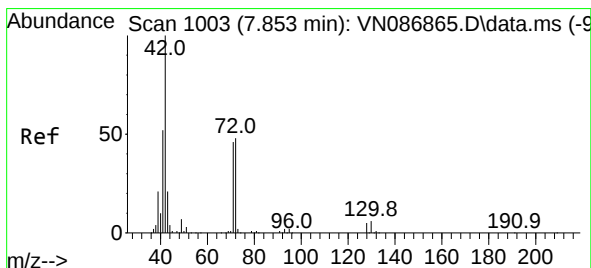
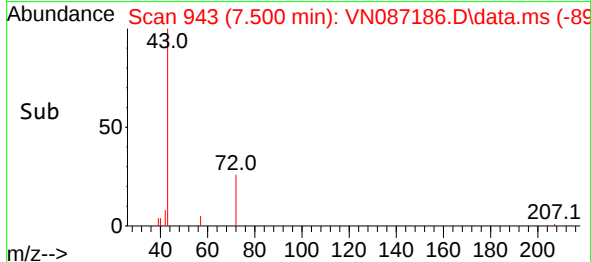
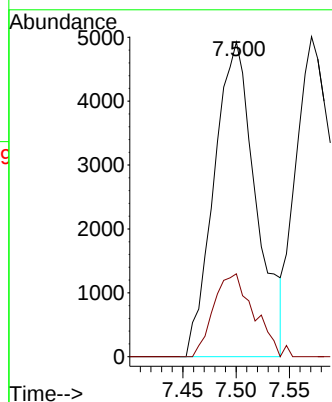
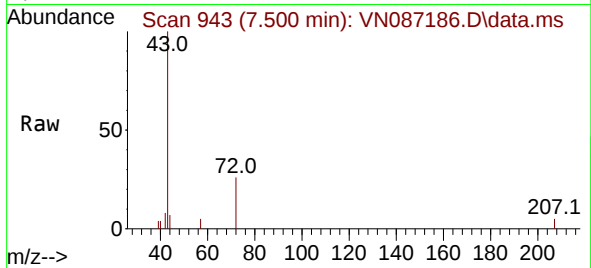




#25
2-Butanone
Concen: 5.211 ug/l
RT: 7.500 min Scan# 94
Delta R.T. 0.006 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

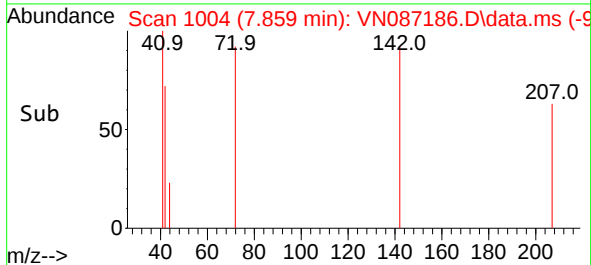
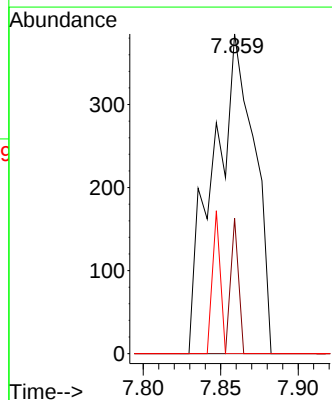
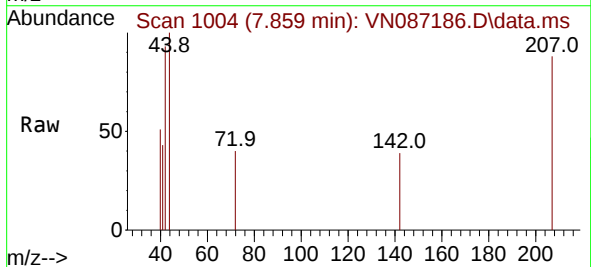
Instrument :
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ClientSampleId :
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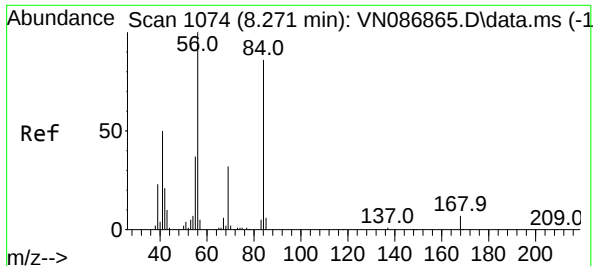
Tgt Ion: 43 Resp: 13474
Ion Ratio Lower Upper
43 100
72 26.3 23.0 34.6



#29
Tetrahydrofuran
Concen: 0.422 ug/l
RT: 7.859 min Scan# 1004
Delta R.T. 0.006 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

Tgt Ion: 42 Resp: 710
Ion Ratio Lower Upper
42 100
72 8.2 37.8 56.6#
71 8.6 35.6 53.4#

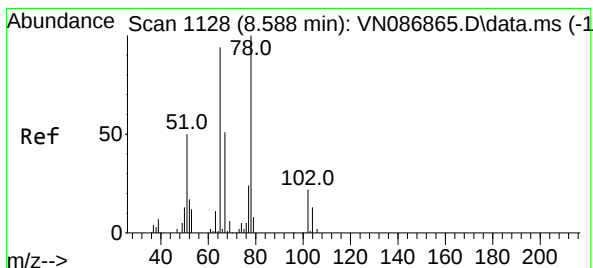
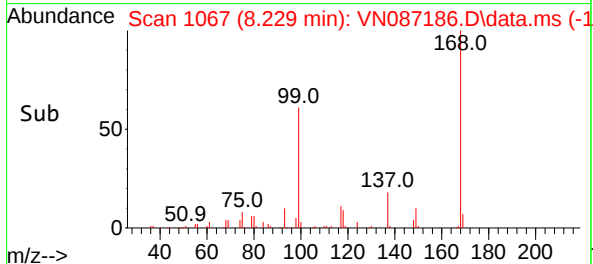
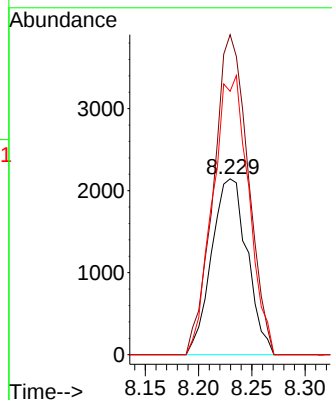
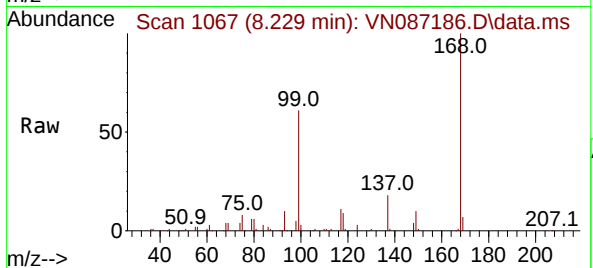




#31
Cyclohexane
Concen: 1.027 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.041 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

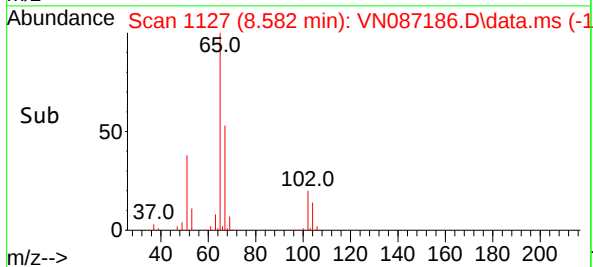
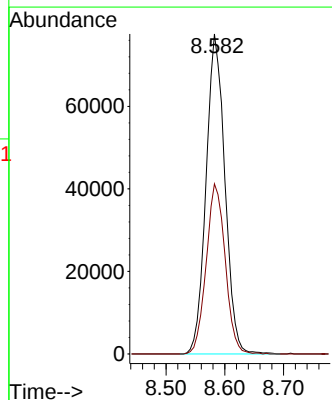
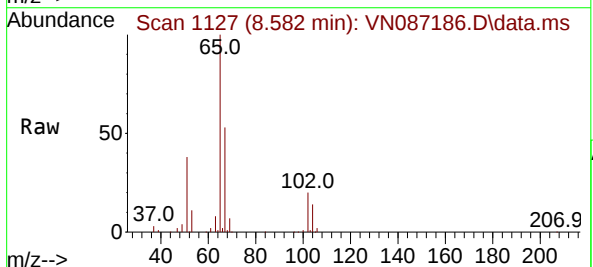
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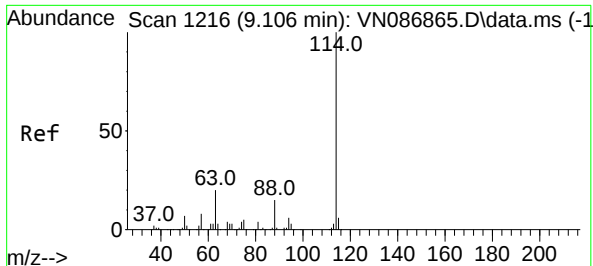
Tgt Ion: 56 Resp: 4995
Ion Ratio Lower Upper
56 100
69 181.9 25.4 38.0#
84 149.7 68.8 103.2#



#33
1,2-Dichloroethane-d4
Concen: 57.419 ug/l
RT: 8.582 min Scan# 1127
Delta R.T. -0.006 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

Tgt Ion: 65 Resp: 172227
Ion Ratio Lower Upper
65 100
67 53.7 0.0 105.6





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.106 min Scan# 11

Delta R.T. -0.000 min

Lab File: VN087186.D

Acq: 26 Jun 2025 12:01

Instrument :

MSVOA_N

ClientSampleId :

PB168572TB

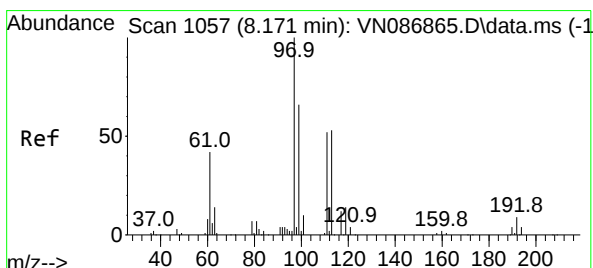
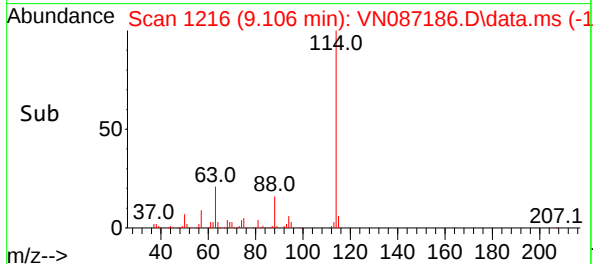
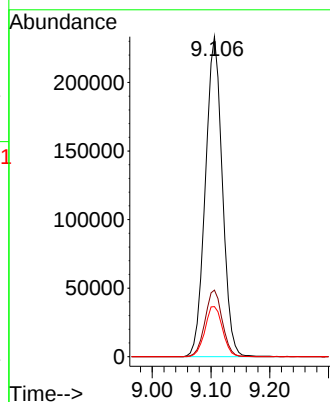
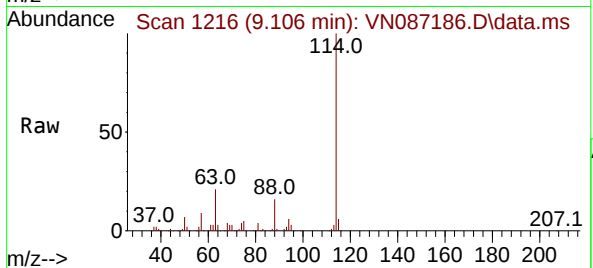
Tgt Ion:114 Resp: 466421

Ion Ratio Lower Upper

114 100

63 20.8 0.0 39.6

88 15.7 0.0 30.2



#35

Dibromofluoromethane

Concen: 48.615 ug/l

RT: 8.177 min Scan# 1058

Delta R.T. 0.006 min

Lab File: VN087186.D

Acq: 26 Jun 2025 12:01

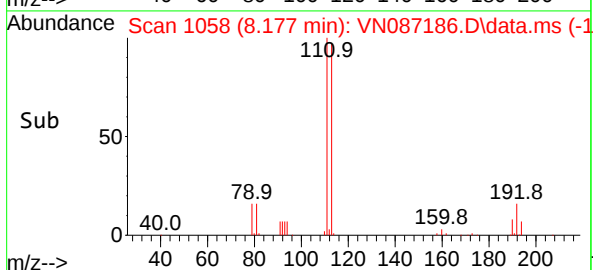
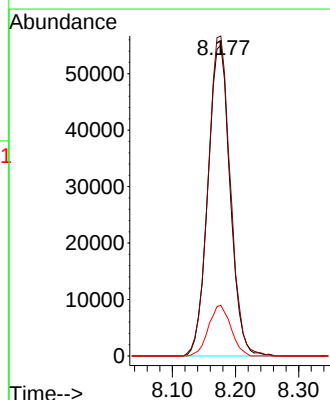
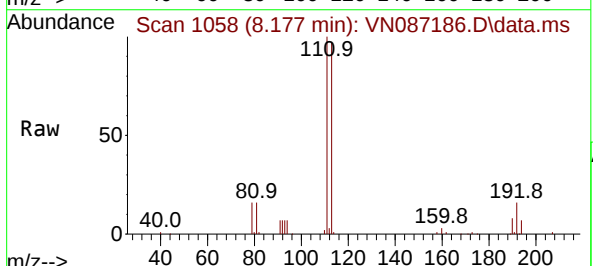
Tgt Ion:113 Resp: 134379

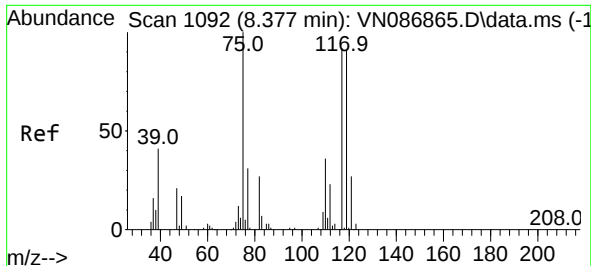
Ion Ratio Lower Upper

113 100

111 103.3 84.2 126.2

192 16.4 14.2 21.4





#36

1,1-Dichloropropene

Concen: 4.557 ug/l

RT: 8.229 min Scan# 1067

Delta R.T. -0.147 min

Lab File: VN087186.D

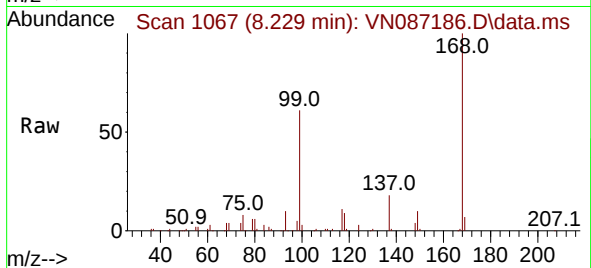
Acq: 26 Jun 2025 12:01

Instrument :

MSVOA_N

ClientSampleId :

PB168572TB



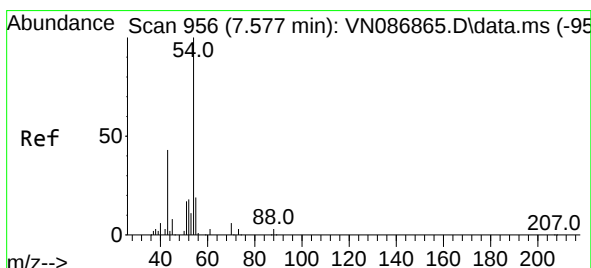
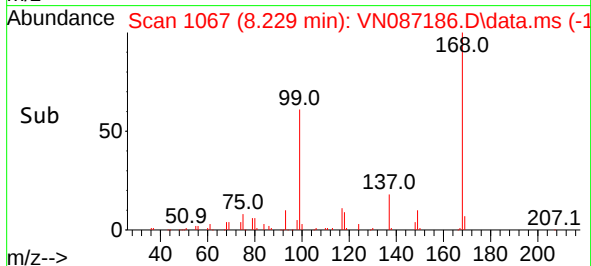
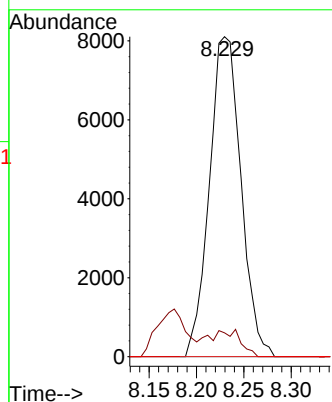
Tgt Ion: 75 Resp: 18771

Ion Ratio Lower Upper

75 100

110 5.9 17.6 52.9#

77 0.0 25.3 37.9#



#37

Ethyl Acetate

Concen: 2.514 ug/l

RT: 7.571 min Scan# 955

Delta R.T. -0.006 min

Lab File: VN087186.D

Acq: 26 Jun 2025 12:01

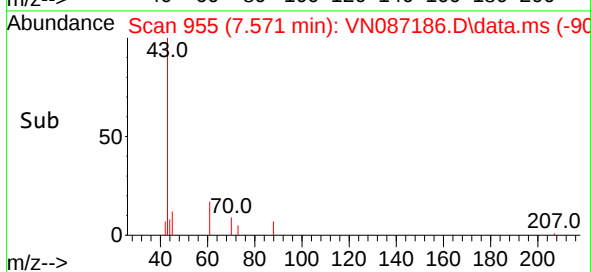
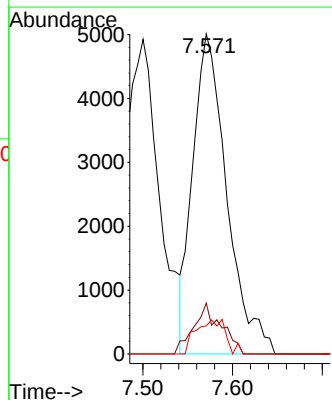
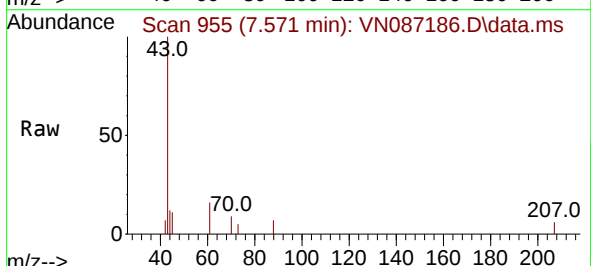
Tgt Ion: 43 Resp: 13180

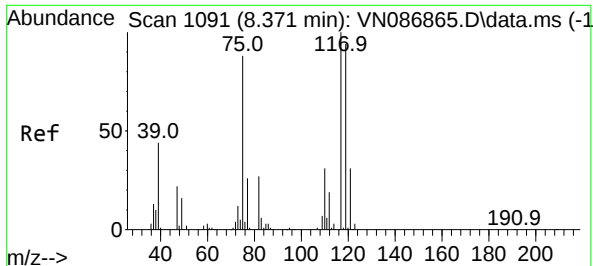
Ion Ratio Lower Upper

43 100

61 12.9 12.1 18.1

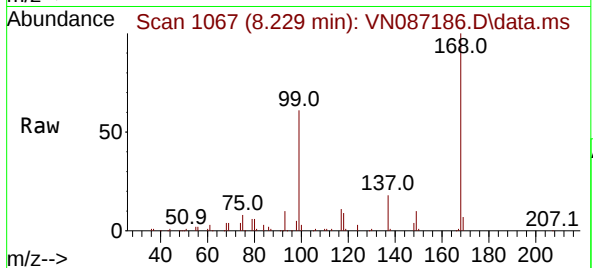
70 9.3 9.8 14.6#



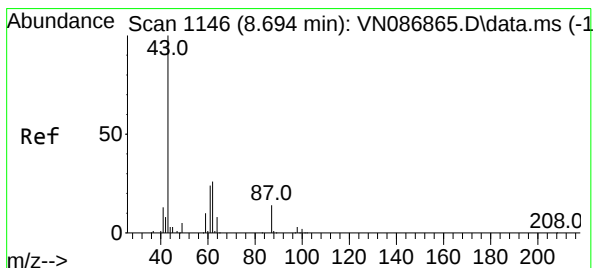
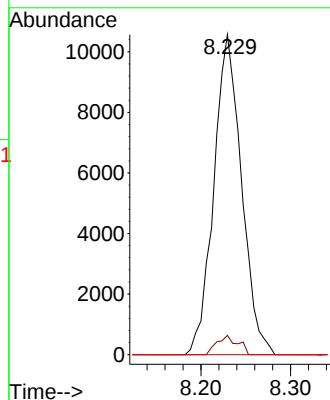
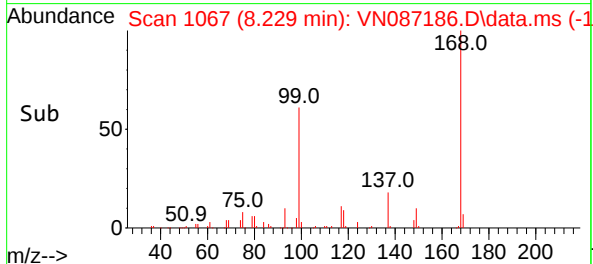


#38
Carbon Tetrachloride
Concen: 5.605 ug/l
RT: 8.229 min Scan# 1067
Delta R.T. -0.141 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

Instrument :
MSVOA_N
ClientSampleId :
PB168572TB

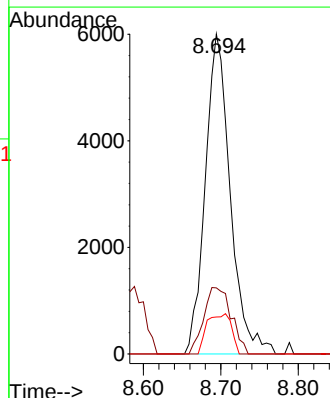
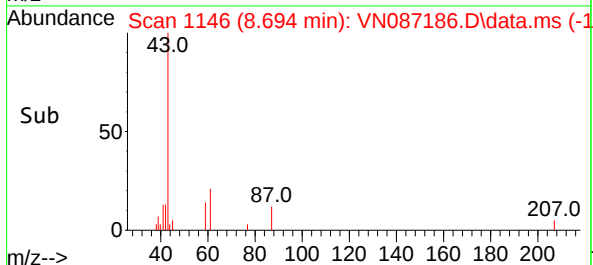
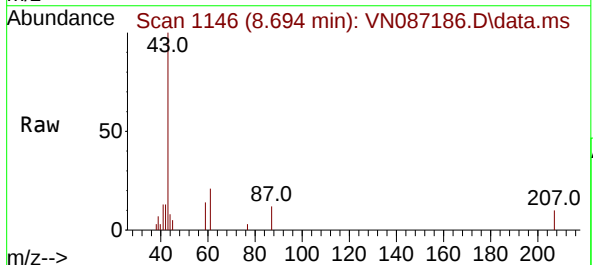


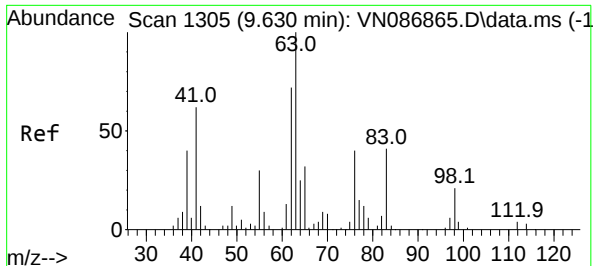
Tgt Ion:117 Resp: 22665
Ion Ratio Lower Upper
117 100
119 6.1 75.0 112.6#
121 0.0 24.9 37.3#



#43
Isopropyl Acetate
Concen: 1.599 ug/l
RT: 8.694 min Scan# 1146
Delta R.T. -0.000 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

Tgt Ion: 43 Resp: 13455
Ion Ratio Lower Upper
43 100
61 22.8 22.1 33.1
87 12.3 11.8 17.6





#45

1,2-Dichloropropane

Concen: 0.429 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.112 min

Lab File: VN087186.D

Acq: 26 Jun 2025 12:01

Instrument :

MSVOA_N

ClientSampleId :

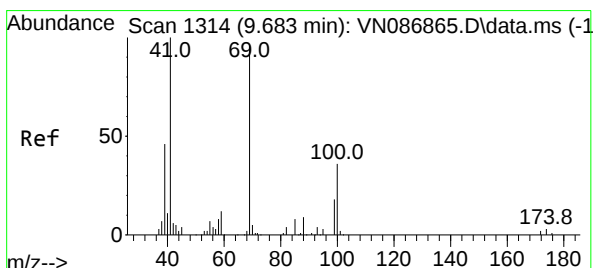
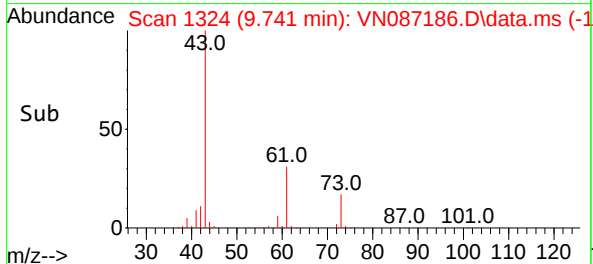
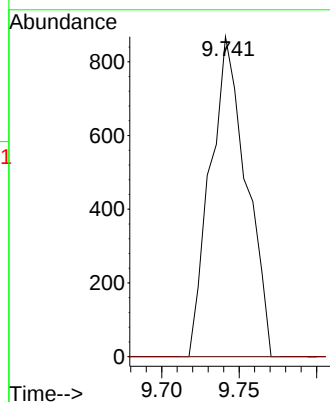
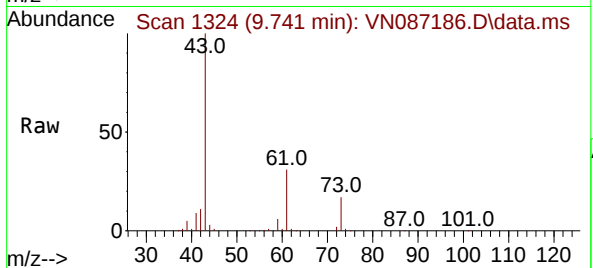
PB168572TB

Tgt Ion: 63 Resp: 1406

Ion Ratio Lower Upper

63 100

65 0.0 25.5 38.3#



#48

Methyl methacrylate

Concen: 23.168 ug/l

RT: 9.741 min Scan# 1324

Delta R.T. 0.059 min

Lab File: VN087186.D

Acq: 26 Jun 2025 12:01

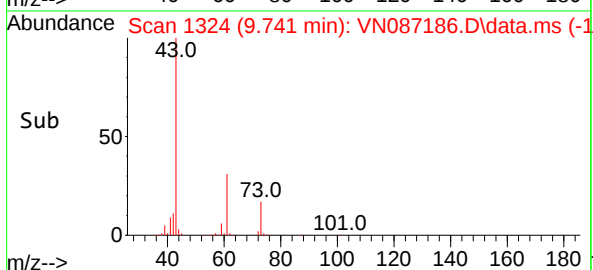
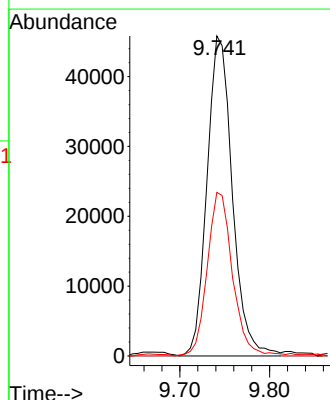
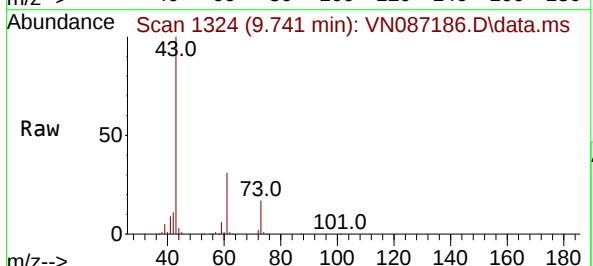
Tgt Ion: 41 Resp: 89736

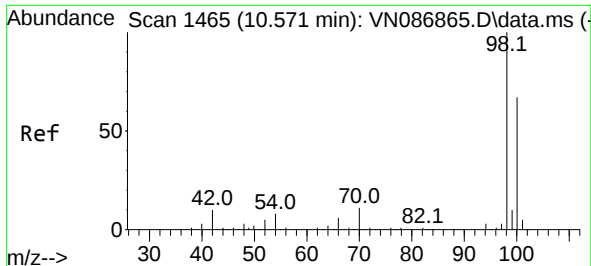
Ion Ratio Lower Upper

41 100

69 0.0 74.6 112.0#

39 51.1 40.2 60.4

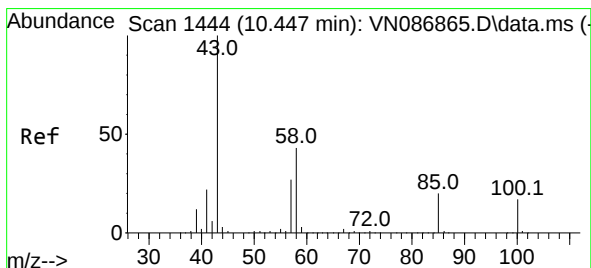
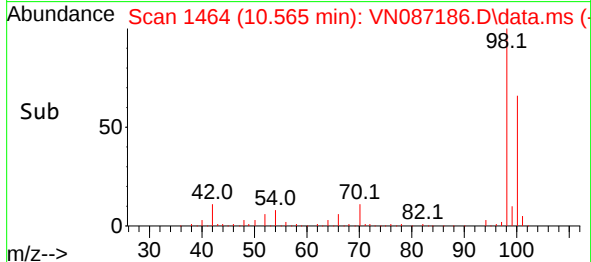
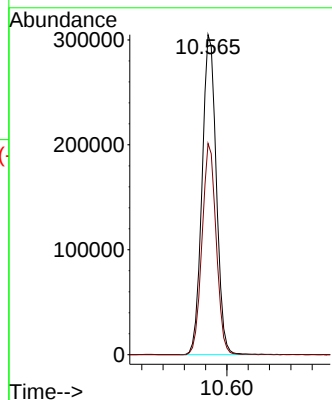
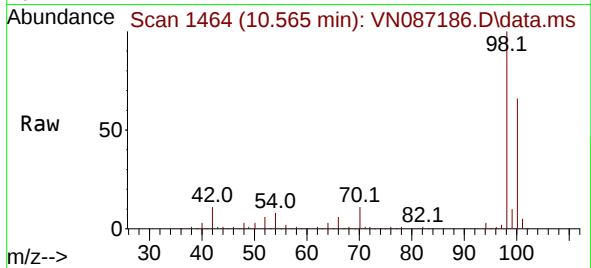




#50
Toluene-d8
Concen: 51.557 ug/l
RT: 10.565 min Scan# 1465
Delta R.T. -0.006 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

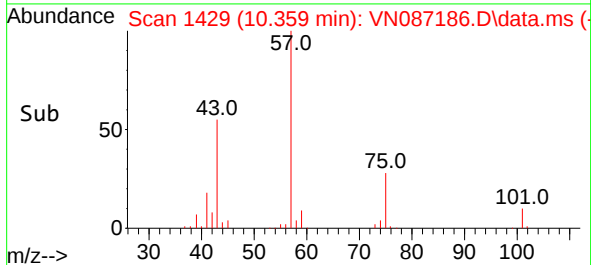
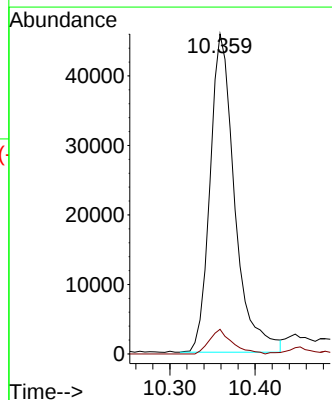
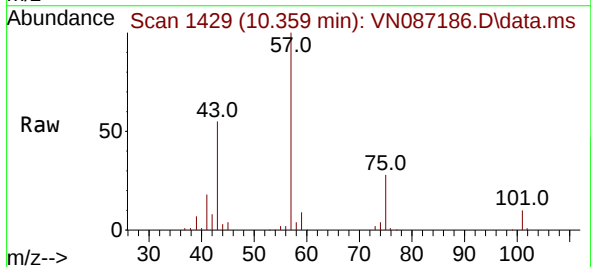
Instrument :
MSVOA_N
ClientSampleId :
PB168572TB

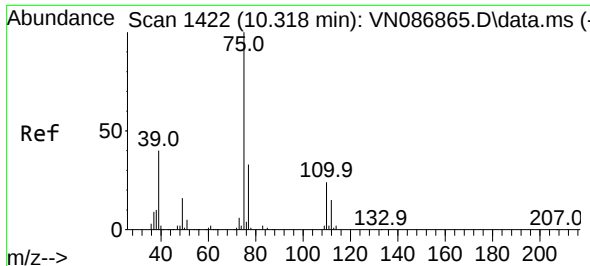
Tgt Ion: 98 Resp: 564159
Ion Ratio Lower Upper
98 100
100 65.5 53.4 80.0



#51
4-Methyl-2-Pentanone
Concen: 18.201 ug/l
RT: 10.359 min Scan# 1429
Delta R.T. -0.088 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

Tgt Ion: 43 Resp: 92208
Ion Ratio Lower Upper
43 100
58 7.1 34.2 51.4#

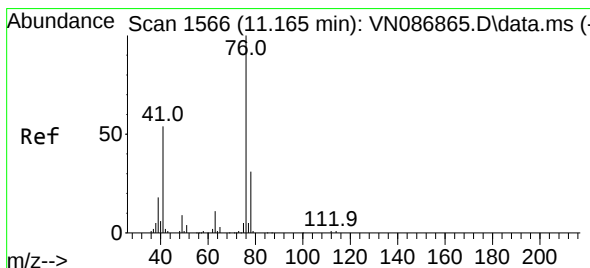
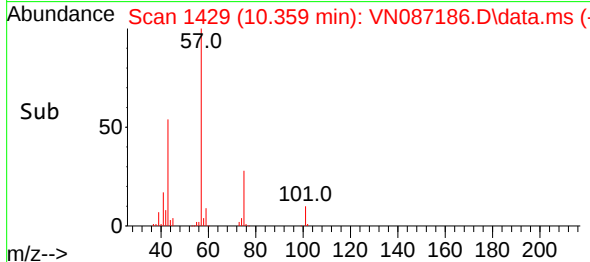
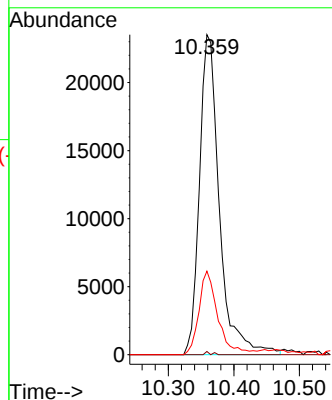
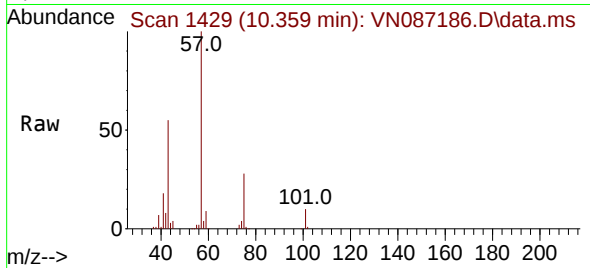




#54
 cis-1,3-Dichloropropene
 Concen: 9.275 ug/l
 RT: 10.359 min Scan# 1422
 Delta R.T. 0.041 min
 Lab File: VN087186.D
 Acq: 26 Jun 2025 12:01

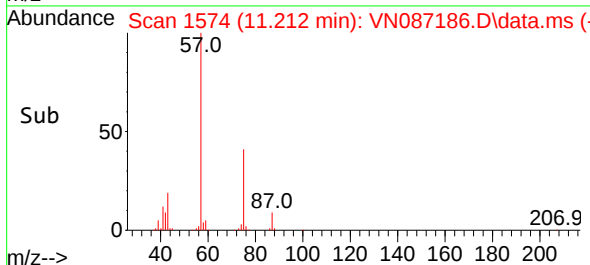
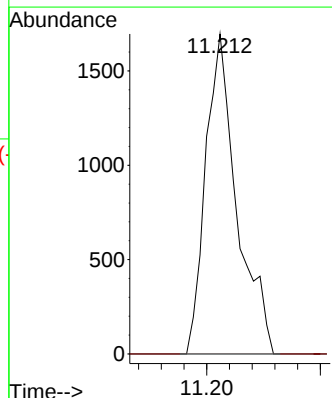
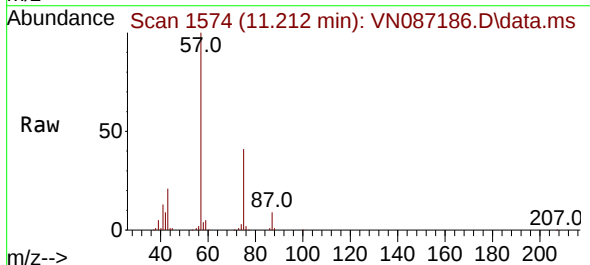
Instrument :
 MSVOA_N
 ClientSampleId :
 PB168572TB

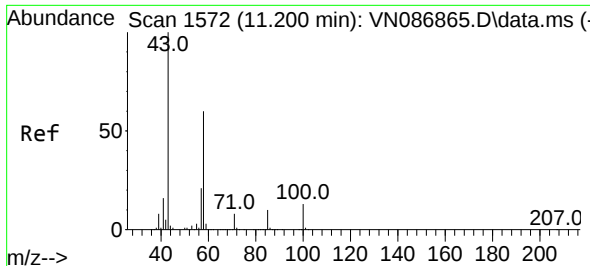
Tgt Ion: 75 Resp: 49694
 Ion Ratio Lower Upper
 75 100
 77 1.0 26.2 39.4#
 39 26.1 32.3 48.5#



#57
 1,3-Dichloropropane
 Concen: 0.589 ug/l
 RT: 11.212 min Scan# 1574
 Delta R.T. 0.047 min
 Lab File: VN087186.D
 Acq: 26 Jun 2025 12:01

Tgt Ion: 76 Resp: 3238
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.3 37.9#

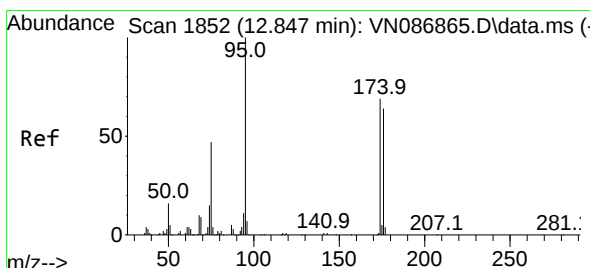
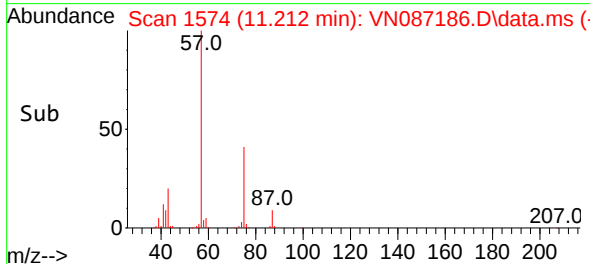
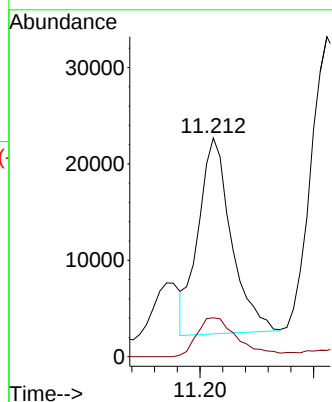
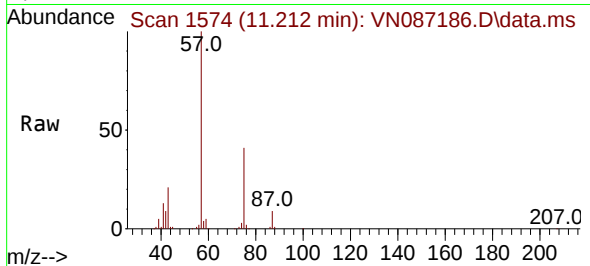




#59
2-Hexanone
Concen: 12.582 ug/l
RT: 11.212 min Scan# 11
Delta R.T. 0.012 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

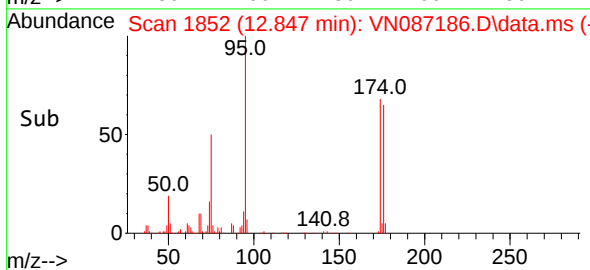
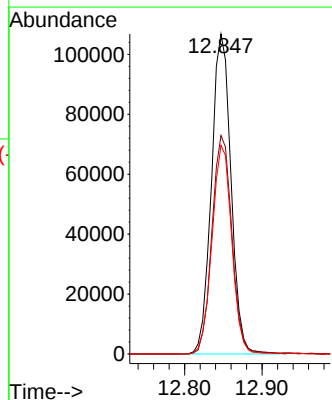
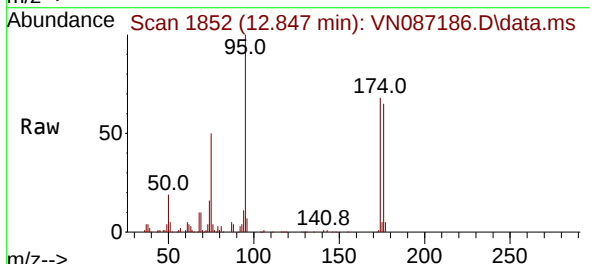
Instrument :
MSVOA_N
ClientSampleId :
PB168572TB

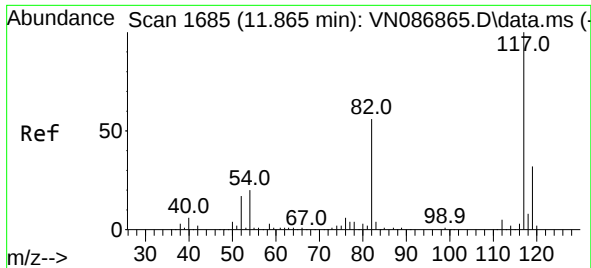
Tgt Ion: 43 Resp: 41059
Ion Ratio Lower Upper
43 100
58 25.4 30.4 91.3#



#62
4-Bromofluorobenzene
Concen: 46.099 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

Tgt Ion: 95 Resp: 187412
Ion Ratio Lower Upper
95 100
174 69.7 0.0 141.8
176 65.7 0.0 132.6

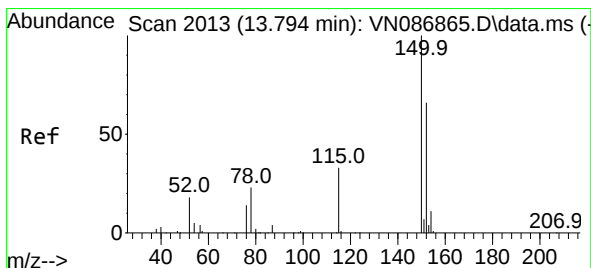
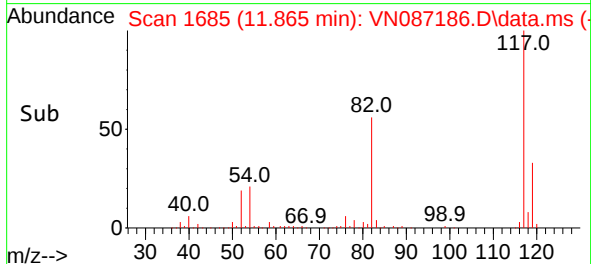
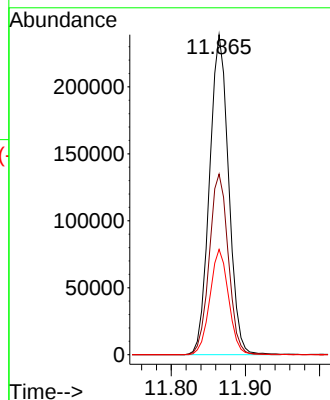
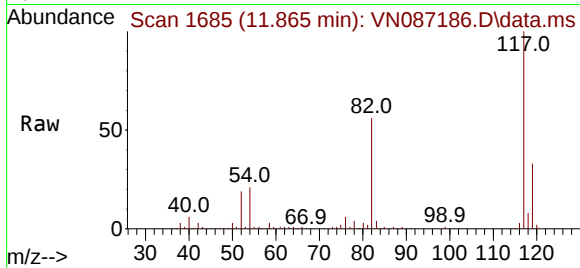




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

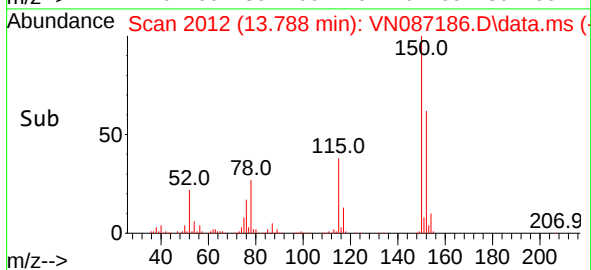
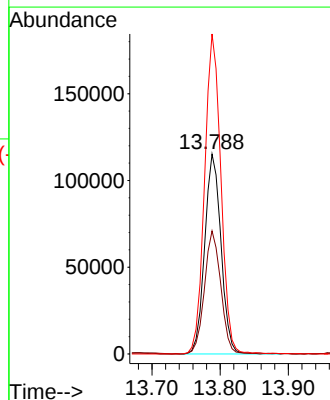
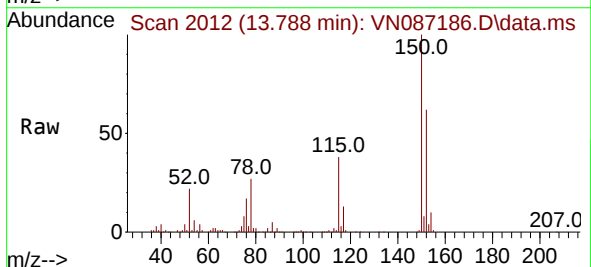
Instrument :
MSVOA_N
ClientSampleId :
PB168572TB

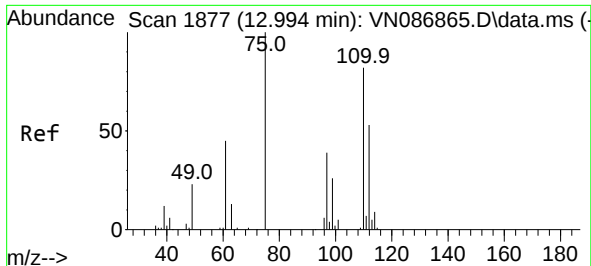
Tgt Ion:117 Resp: 427777
Ion Ratio Lower Upper
117 100
82 56.4 44.6 67.0
119 32.9 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 2012
Delta R.T. -0.006 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

Tgt Ion:152 Resp: 191913
Ion Ratio Lower Upper
152 100
115 61.5 30.1 90.5
150 159.9 0.0 345.0

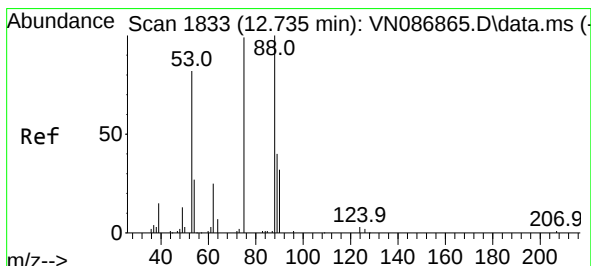
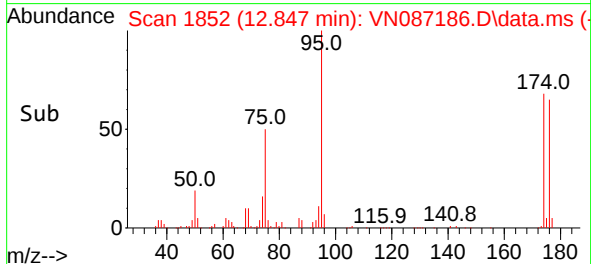
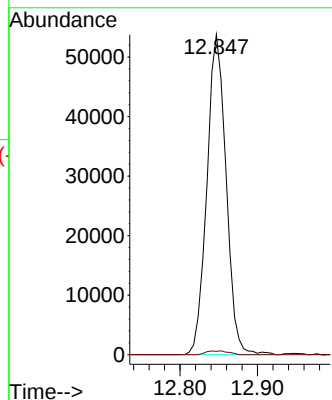
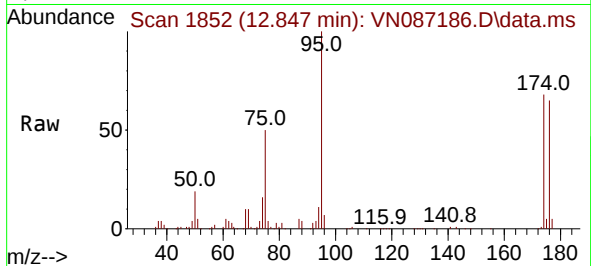




#76
1,2,3-Trichloropropane
Concen: 20.336 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

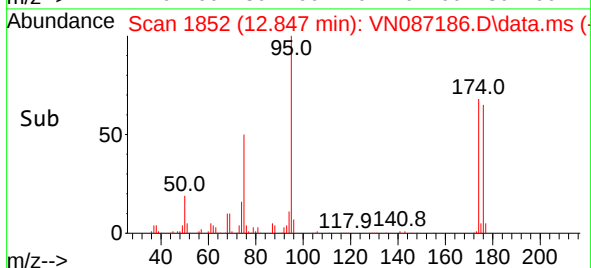
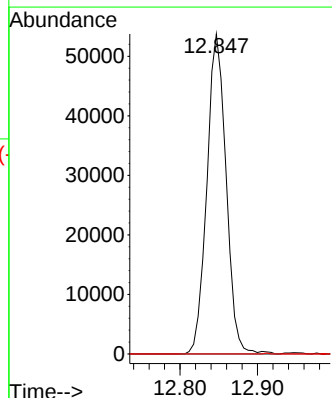
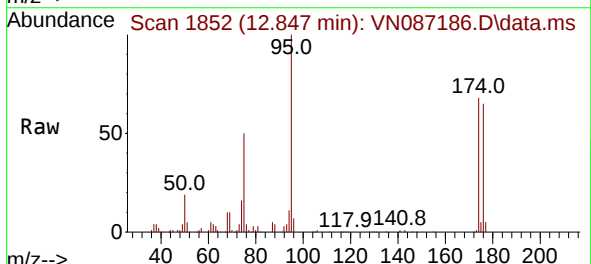
Instrument :
MSVOA_N
ClientSampleId :
PB168572TB

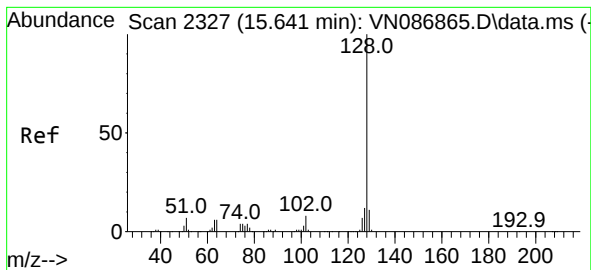
Tgt Ion: 75 Resp: 92771
Ion Ratio Lower Upper
75 100
77 1.4 79.3 237.9#



#81
trans-1,4-Dichloro-2-butene
Concen: 46.813 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

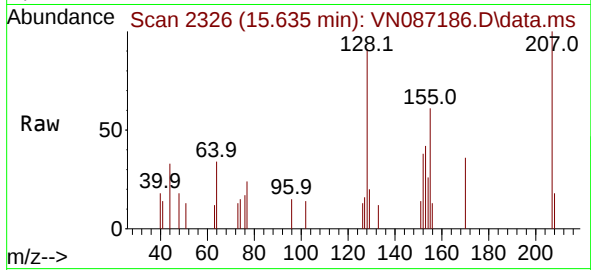
Tgt Ion: 75 Resp: 92771
Ion Ratio Lower Upper
75 100
53 0.0 66.6 99.8#
89 0.0 36.7 55.1#





#95
Naphthalene
Concen: 0.203 ug/l
RT: 15.635 min Scan# 21
Delta R.T. -0.006 min
Lab File: VN087186.D
Acq: 26 Jun 2025 12:01

Instrument :
MSVOA_N
ClientSampleId :
PB168572TB



Tgt Ion:128 Resp: 2918
Ion Ratio Lower Upper
128 100
127 0.0 10.2 15.2#
129 10.3 8.8 13.2

