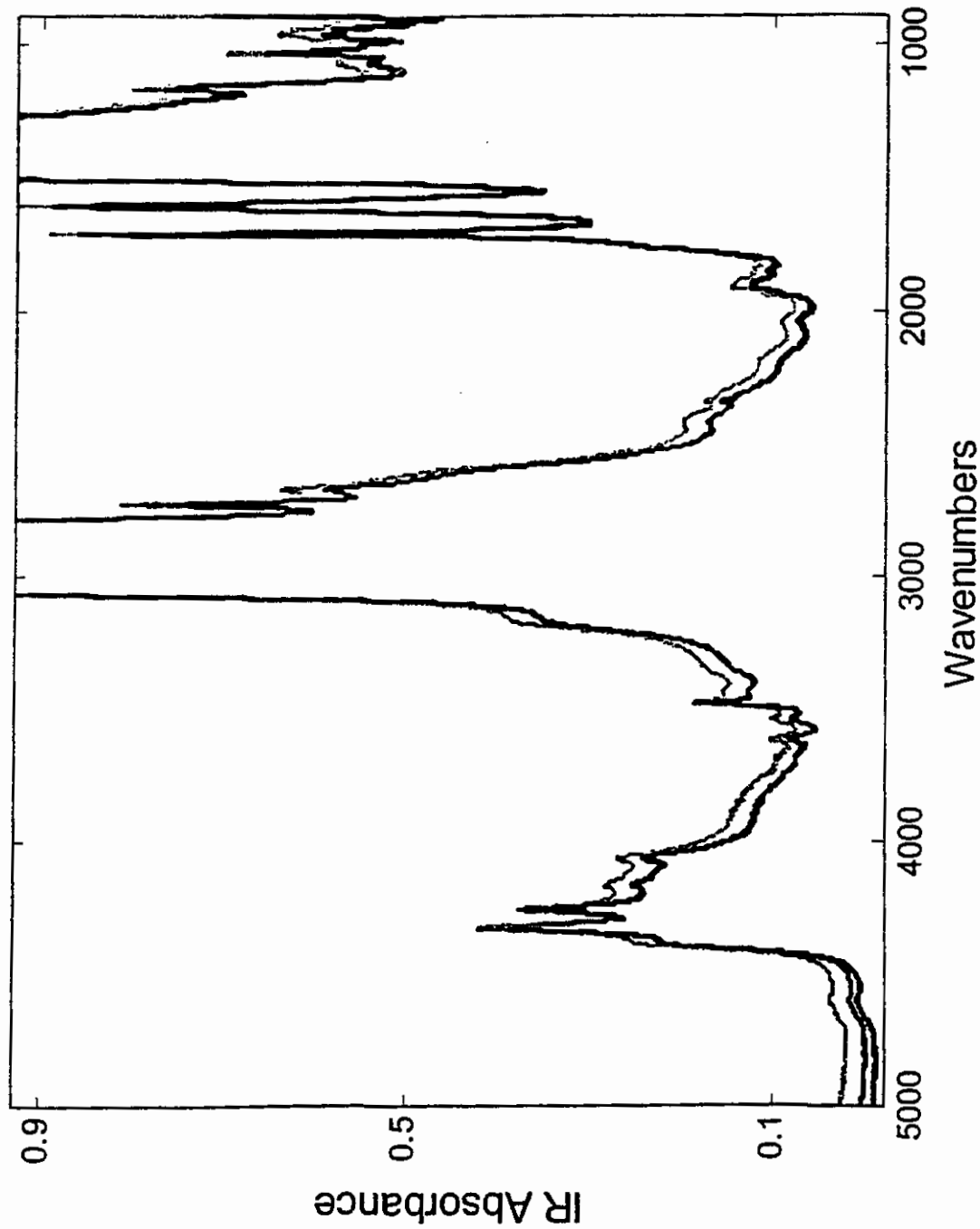


Fig. 1

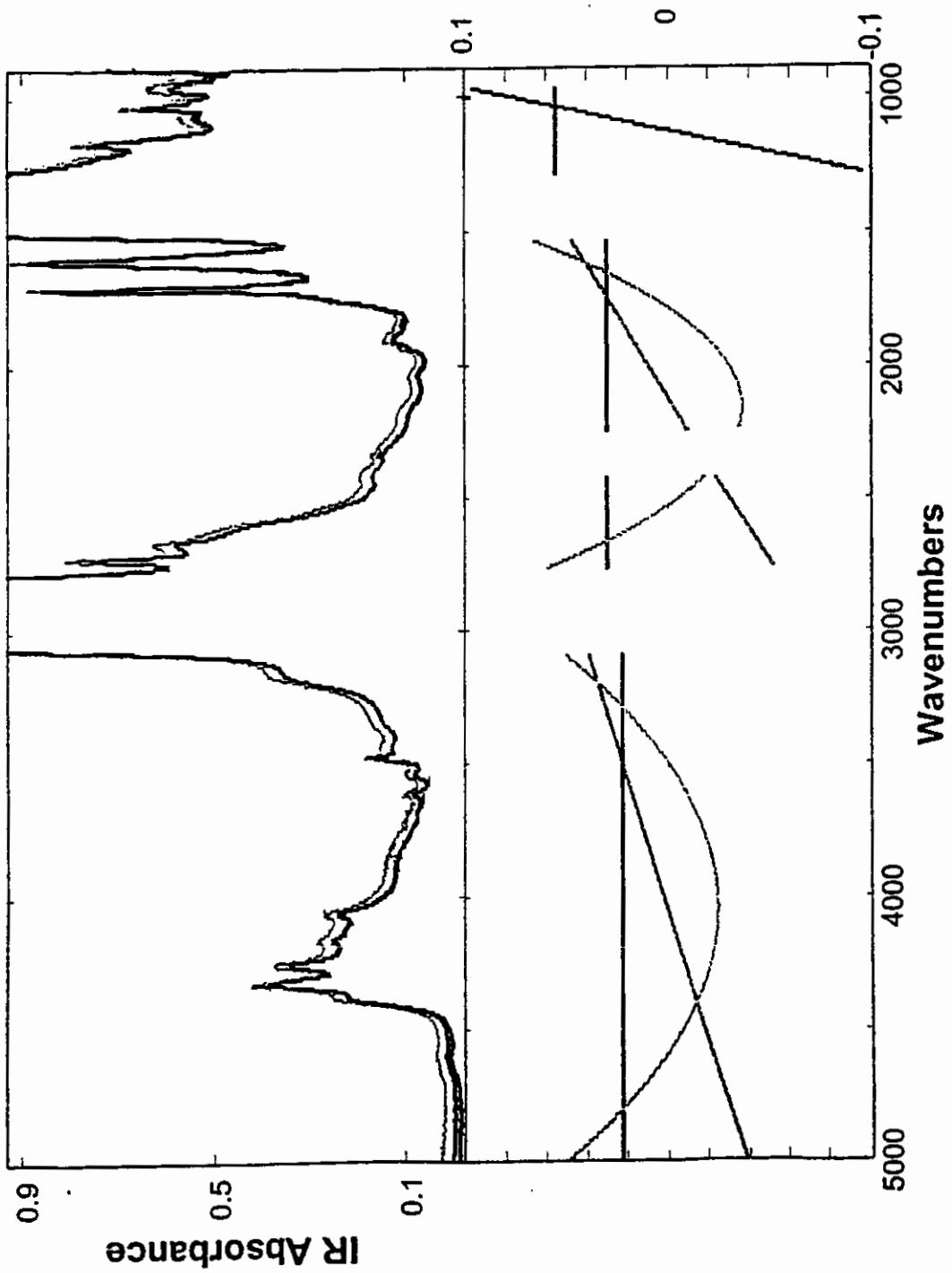

IR Absorbance
0.9
0.5
0.1
0.1
0
-0.1
1000
2000
3000
4000
5000
Wavenumbers

Fig. 2

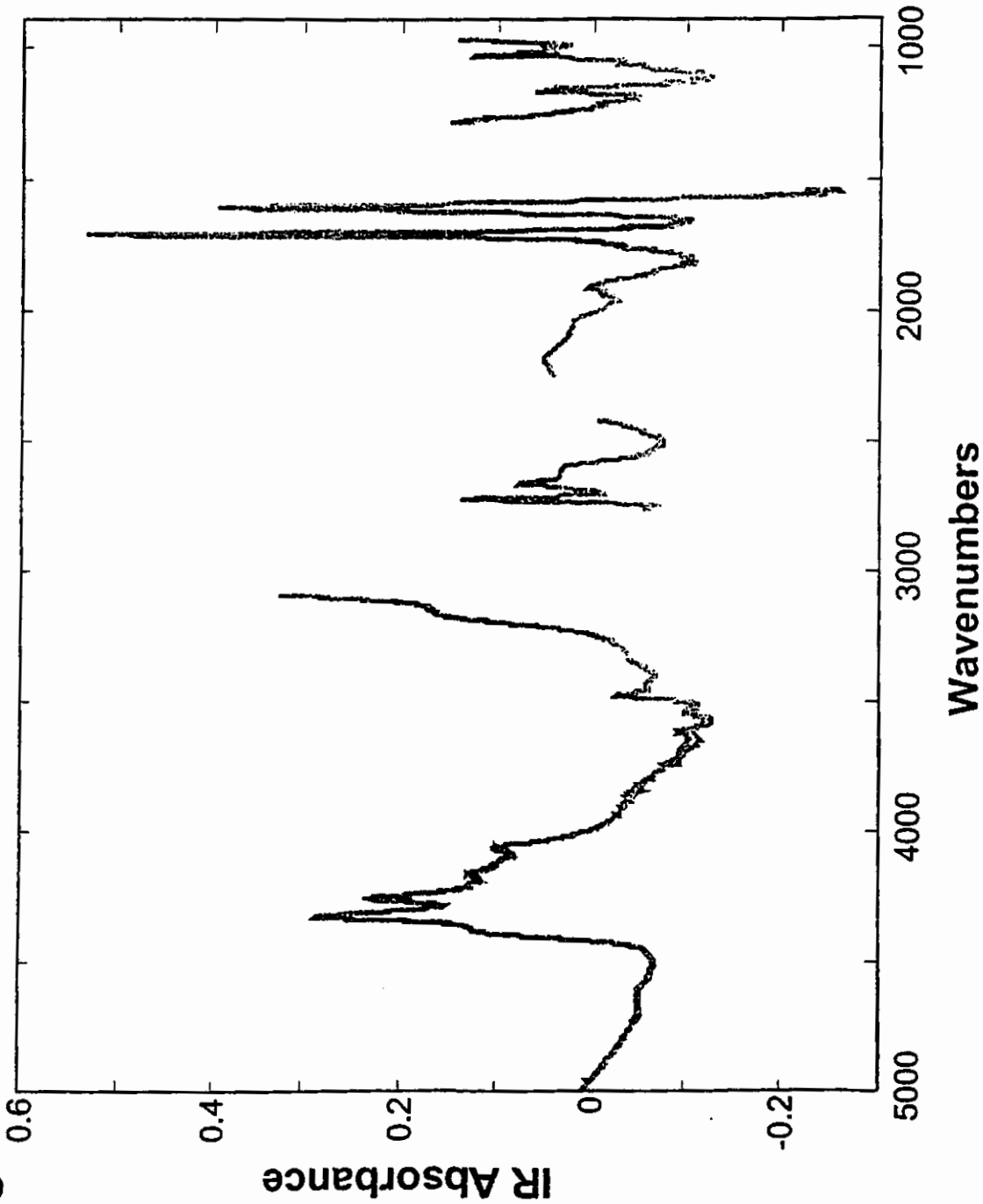

IR Absorbance
0.6
0.4
0.2
0
-0.2
5000
4000
3000
2000
1000
Wavenumbers

Fig. 3

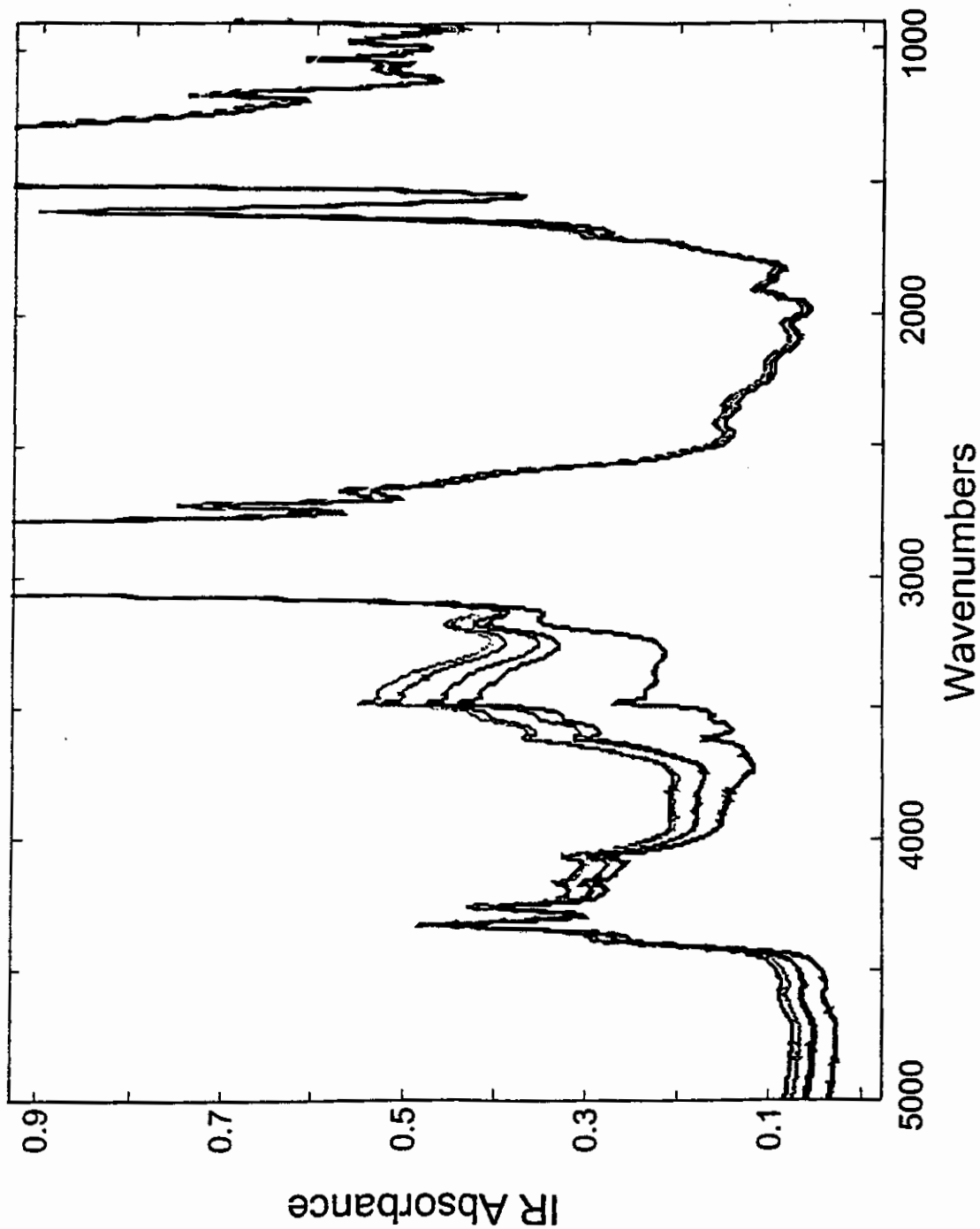

IR Absorbance
0.9
0.7
0.5
0.3
0.1
1000
2000
3000
4000
5000
Wavenumbers

Fig. 4

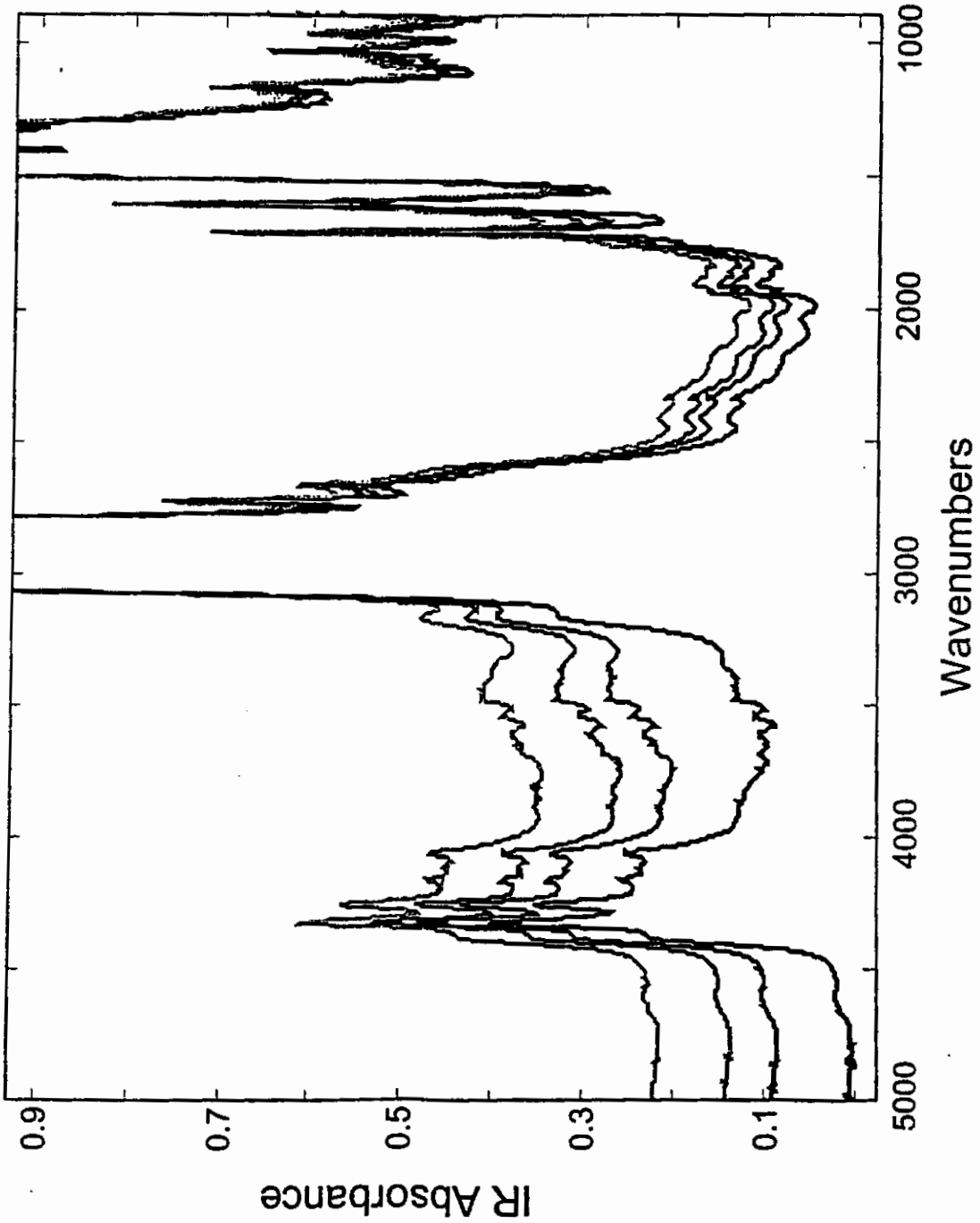

IR Absorbance
0.9
0.7
0.5
0.3
0.1
5000
4000
3000
2000
1000
Wavenumbers

Fig. 5

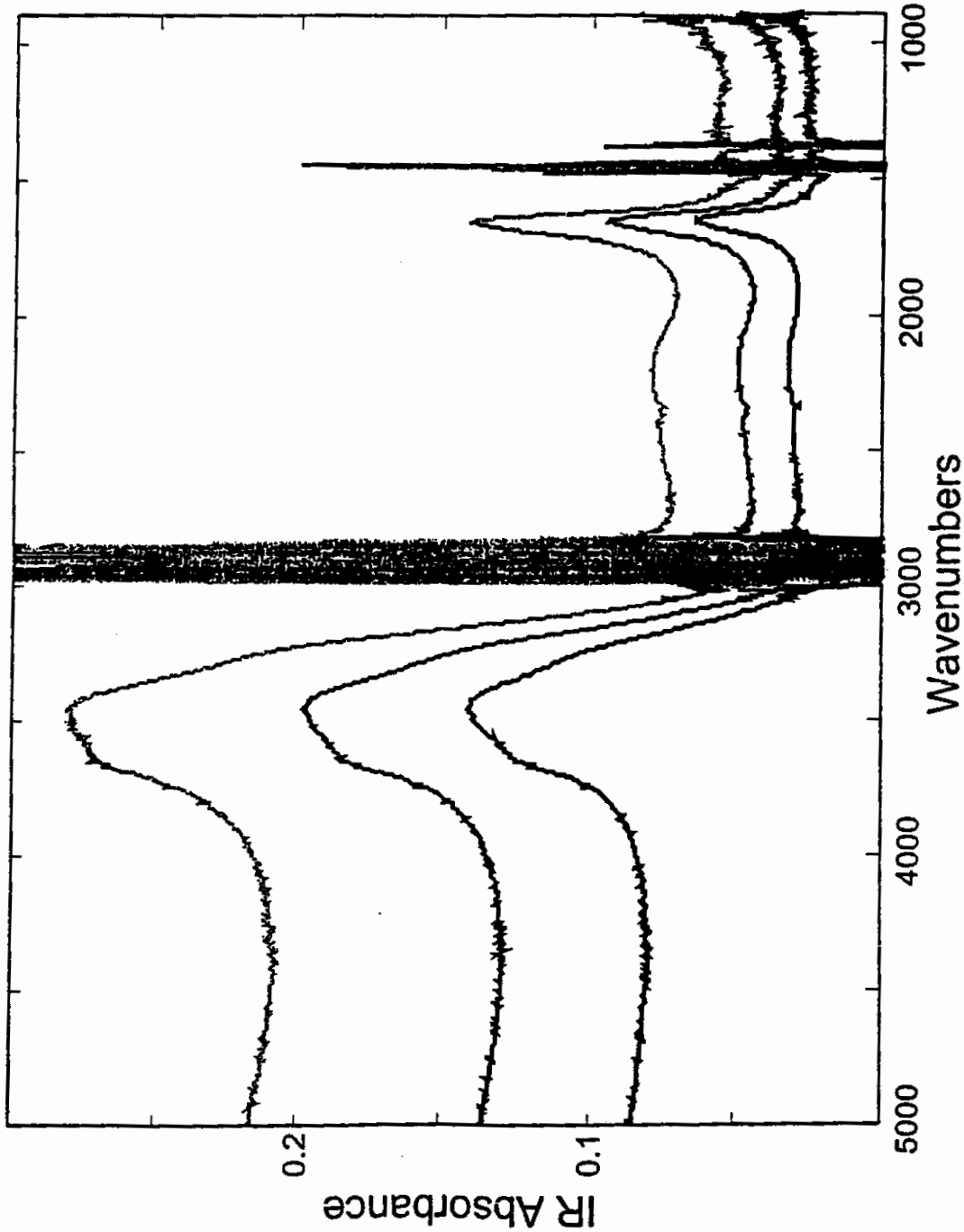


Fig. 6

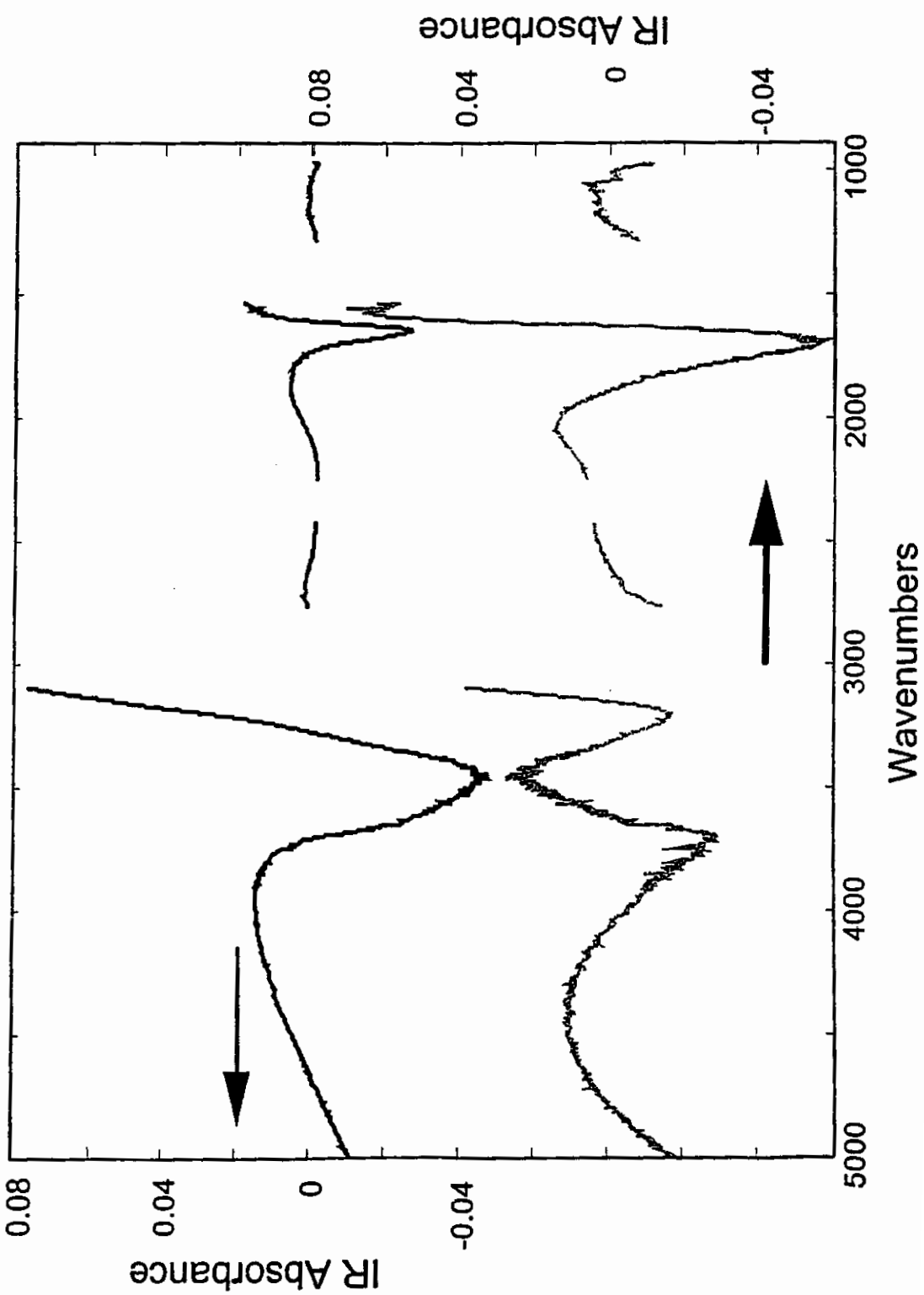

IR Absorbance
0.08
0.04
0
-0.04
5000
4000
3000
2000
1000
Wavenumbers
IR Absorbance
0.08
0.04
0
-0.04

Fig. 7

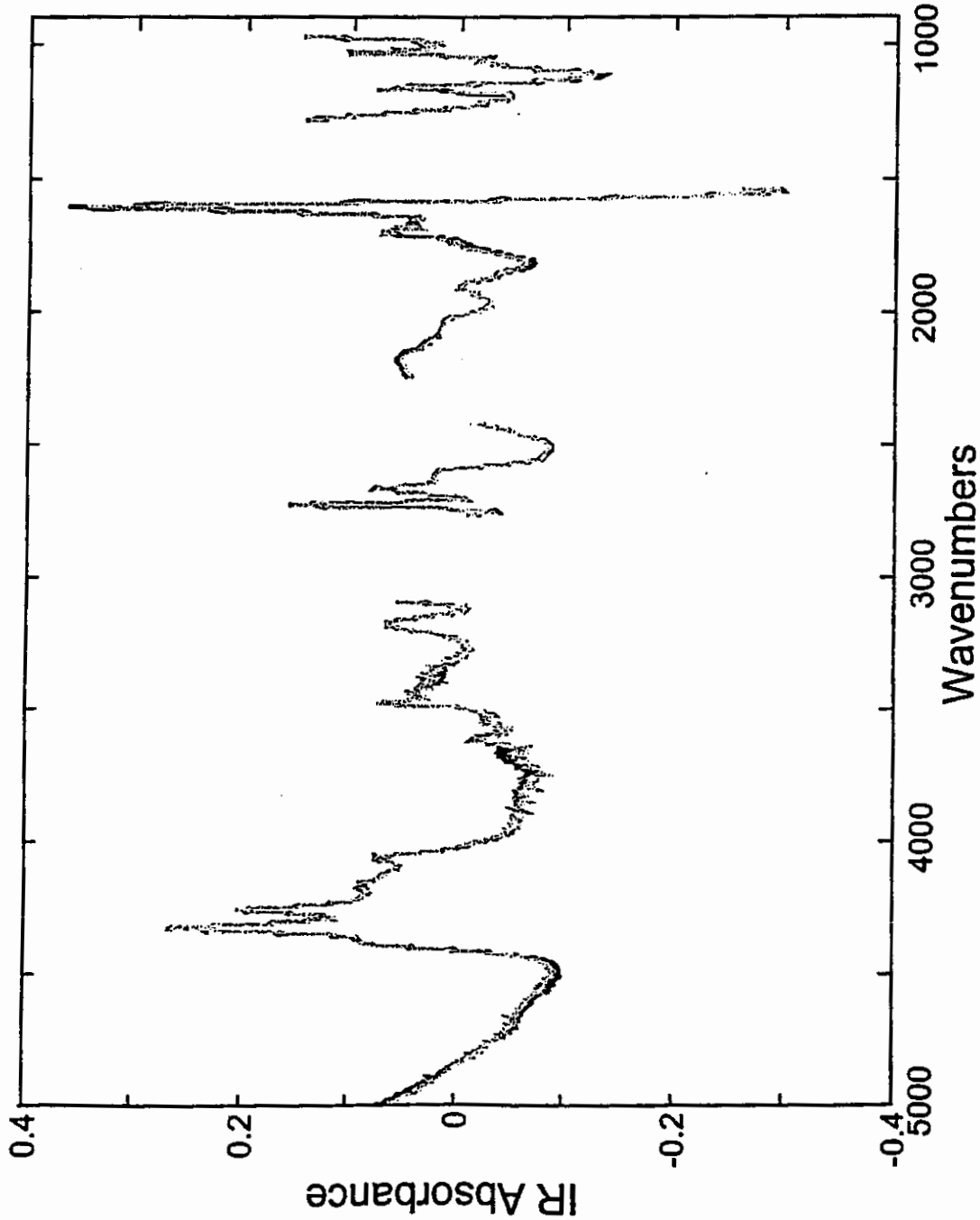

IR Absorbance
0.4
0.2
0
-0.2
-0.4
1000
2000
3000
4000
5000
Wavenumbers

Fig. 8

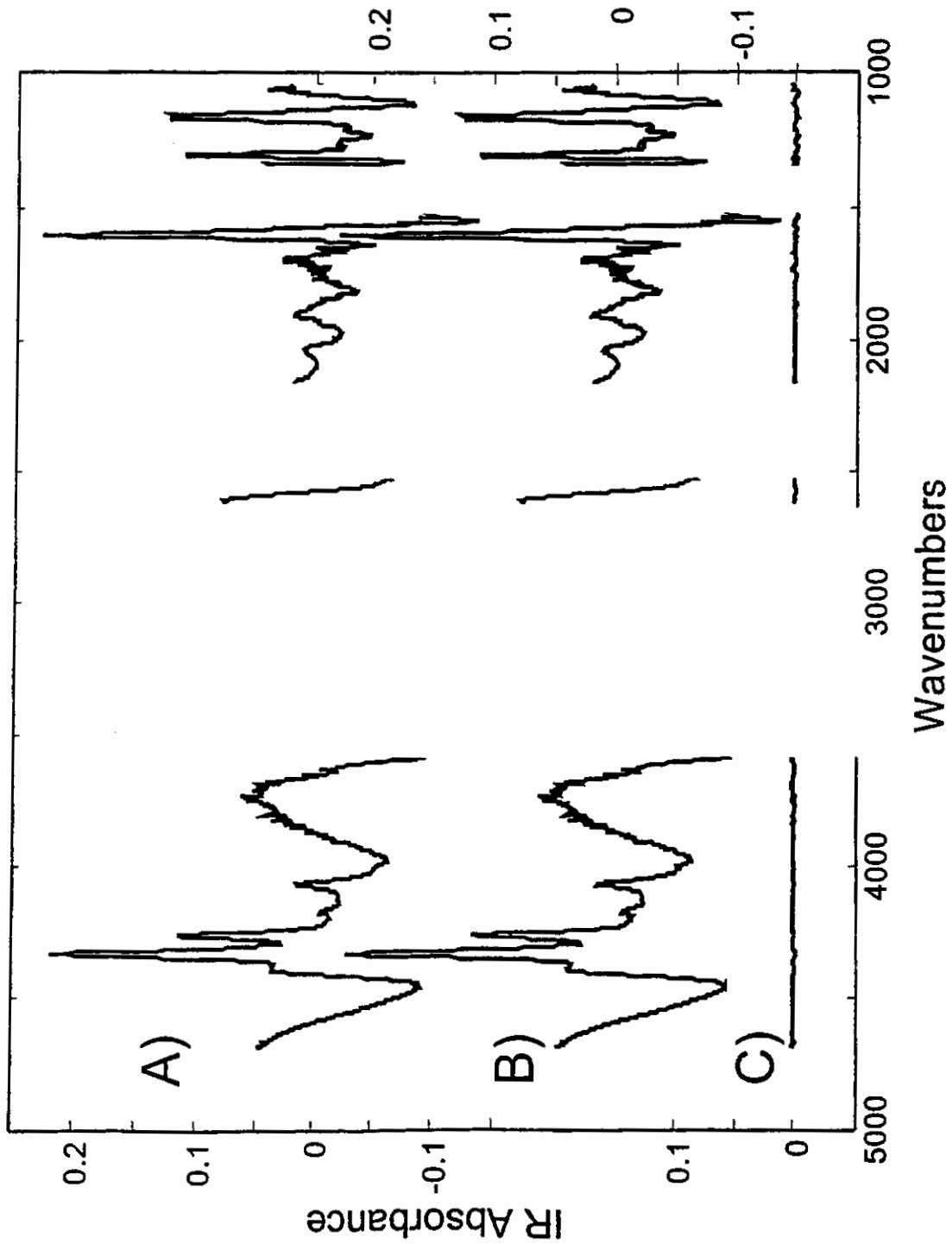

A)
B)
C)
IR Absorbance
Wavenumbers
0.2
0.1
0
-0.1
5000
4000
3000
2000
1000

Fig. 9

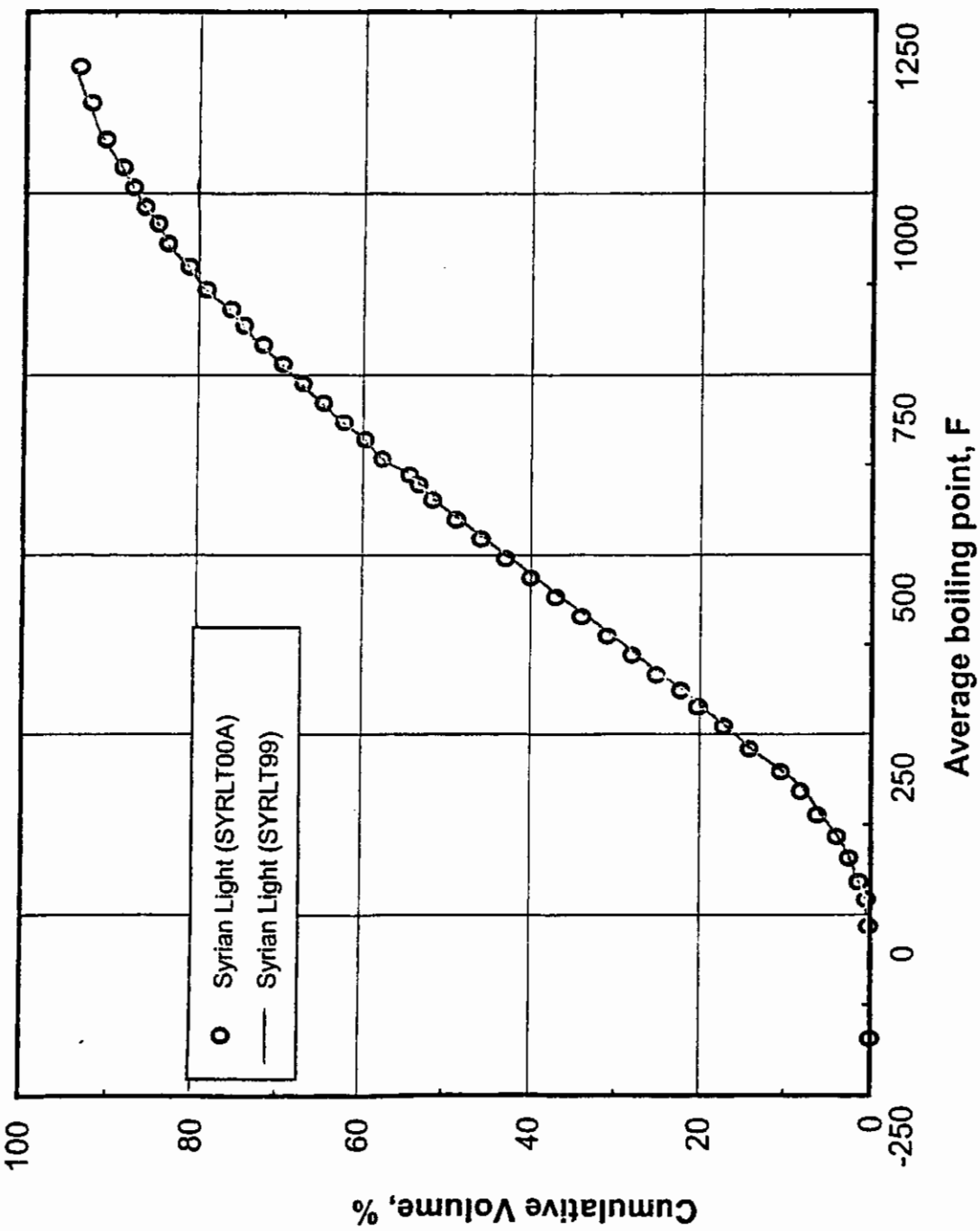

Cumulative Volume, %
100
80
60
40
20
0
-250
0
250
500
750
1000
1250
Average boiling point, F
Syrian Light (SYRLT00A)
Syrian Light (SYRLT99)

Fig. 10