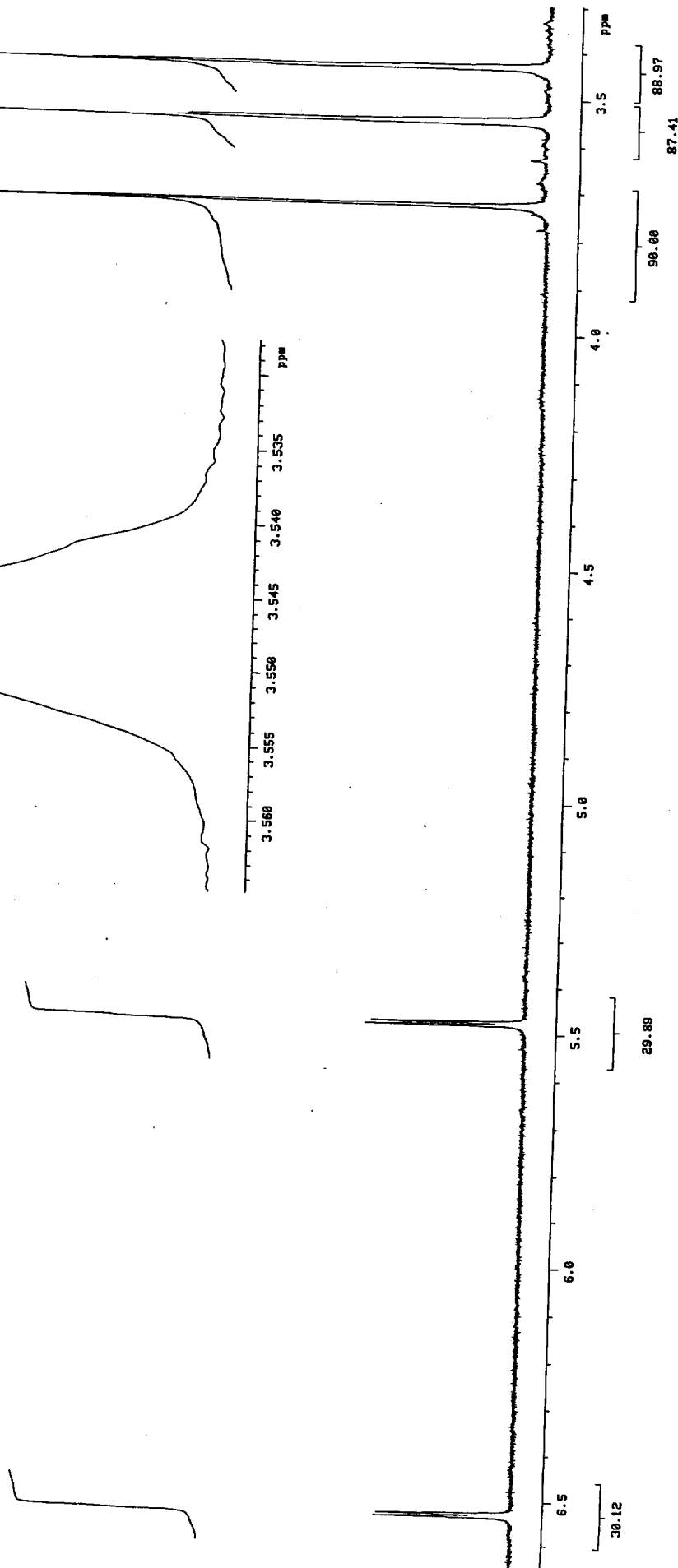
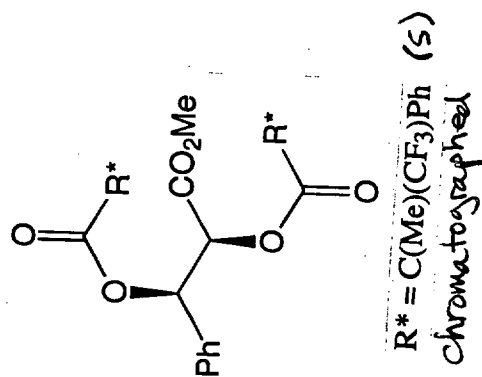
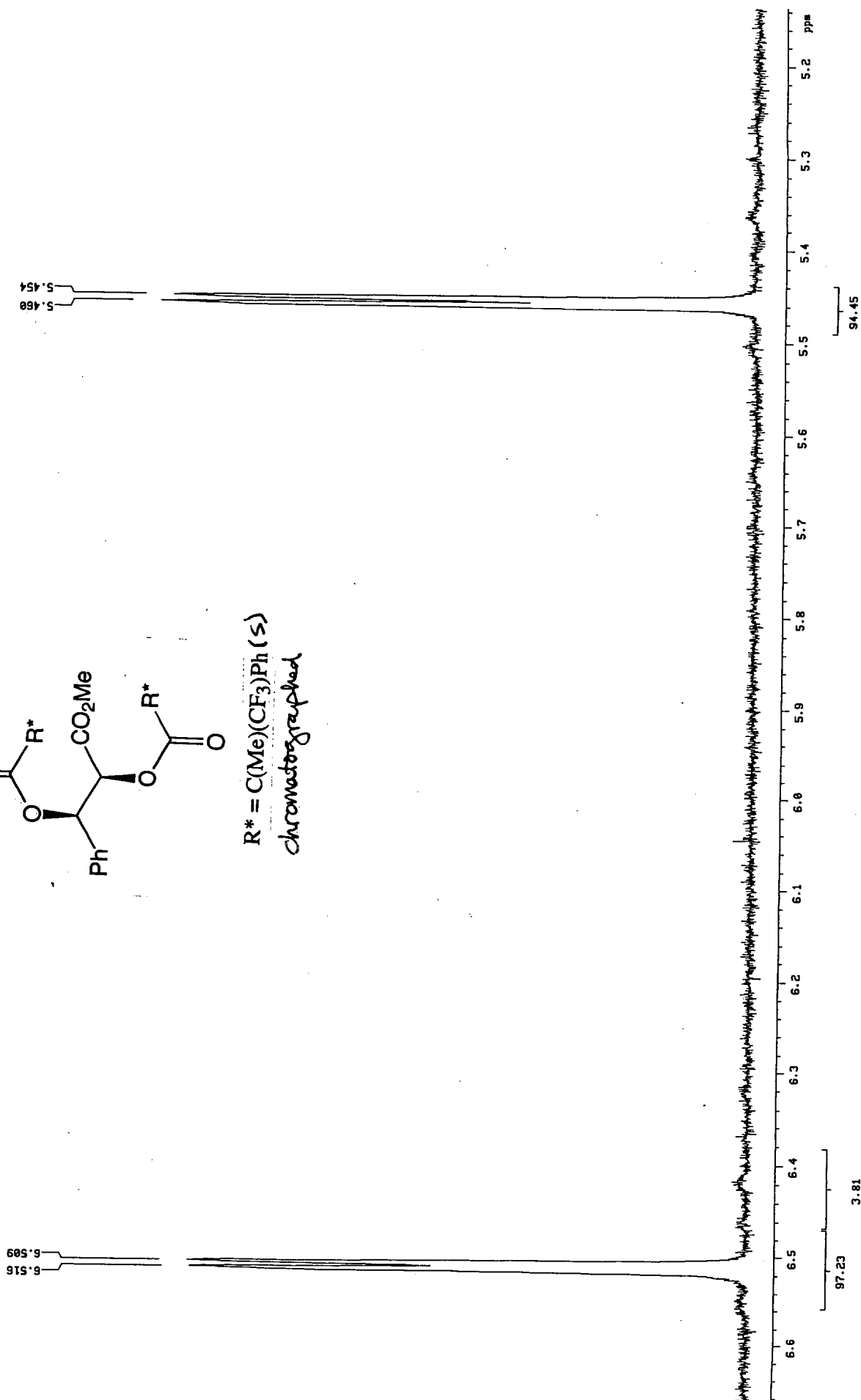
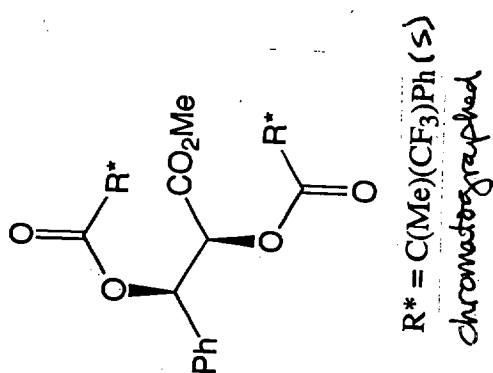
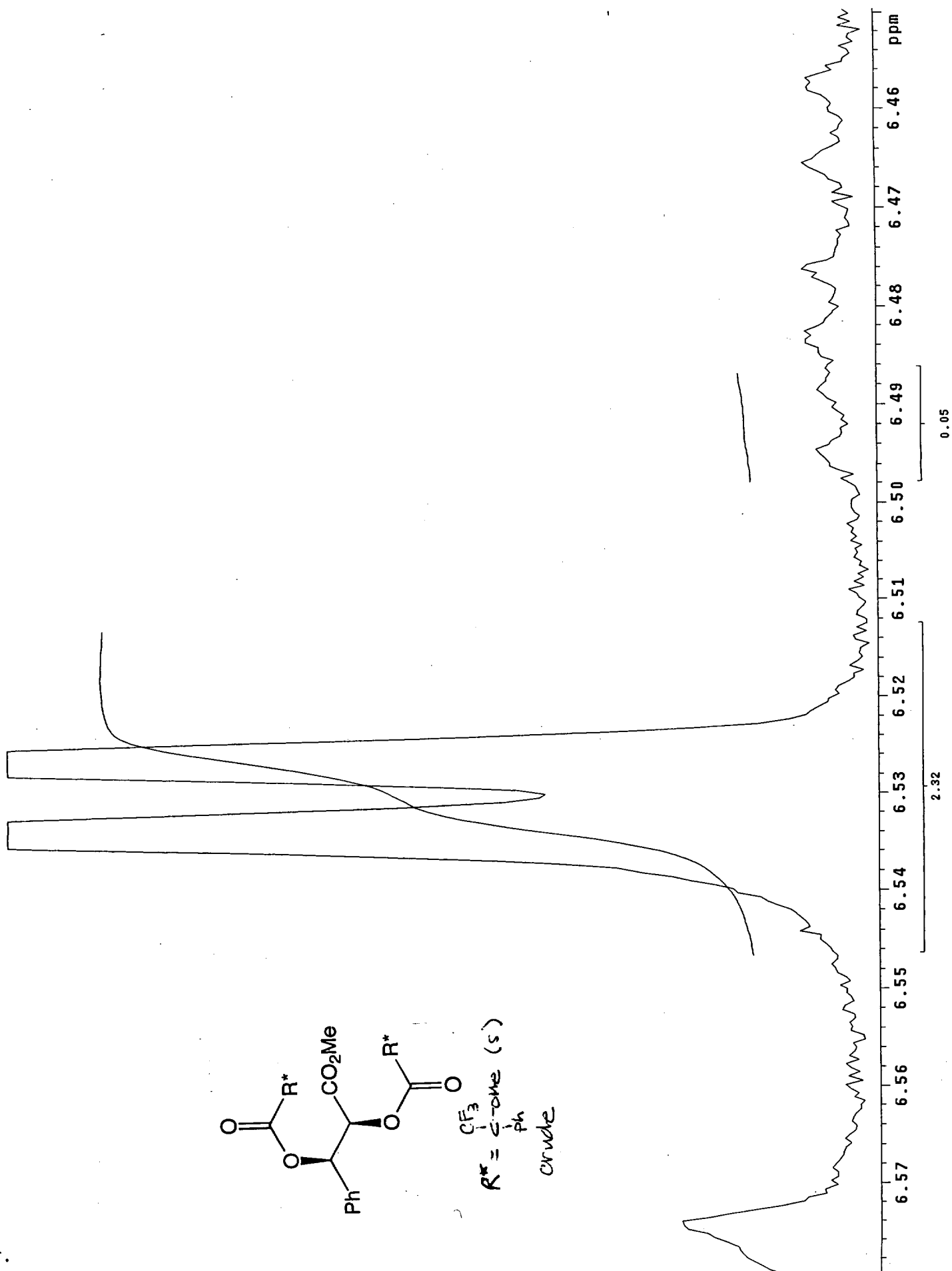
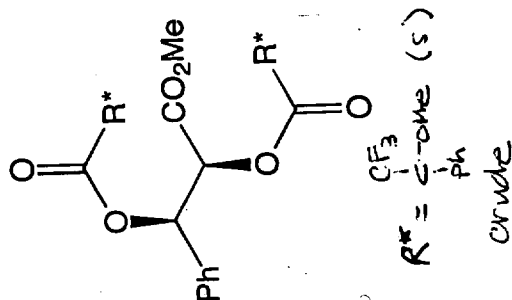


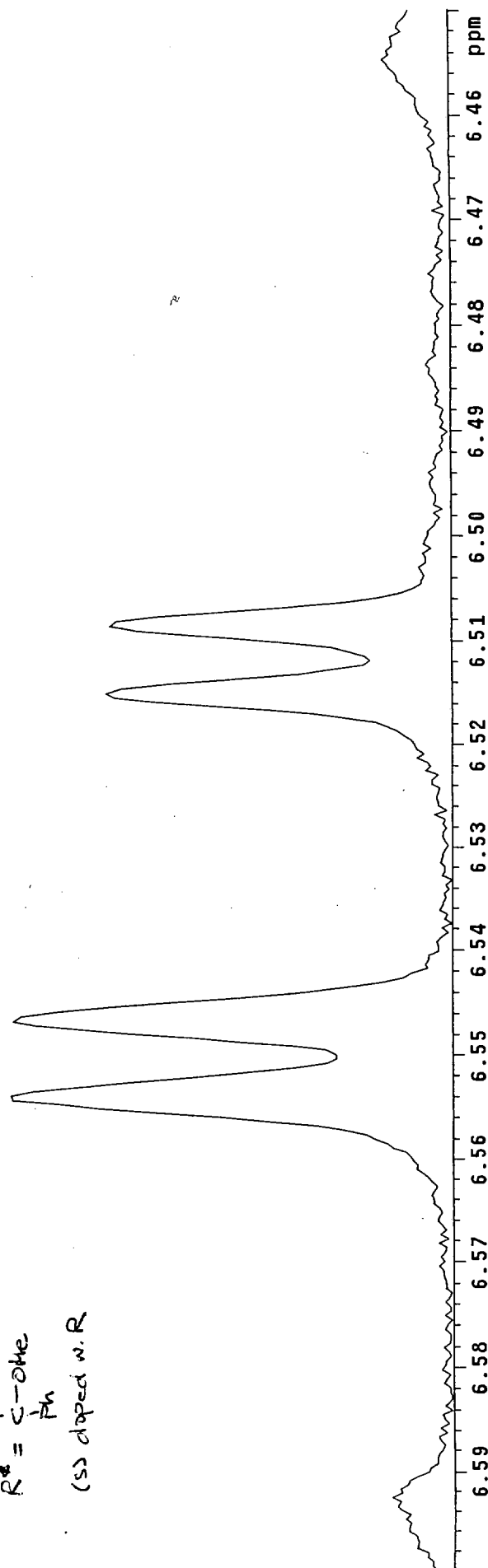
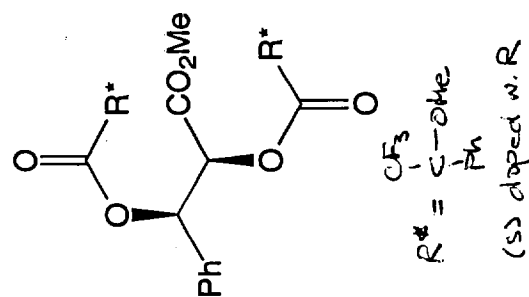
SUPPLEMENTARY
MATERIAL

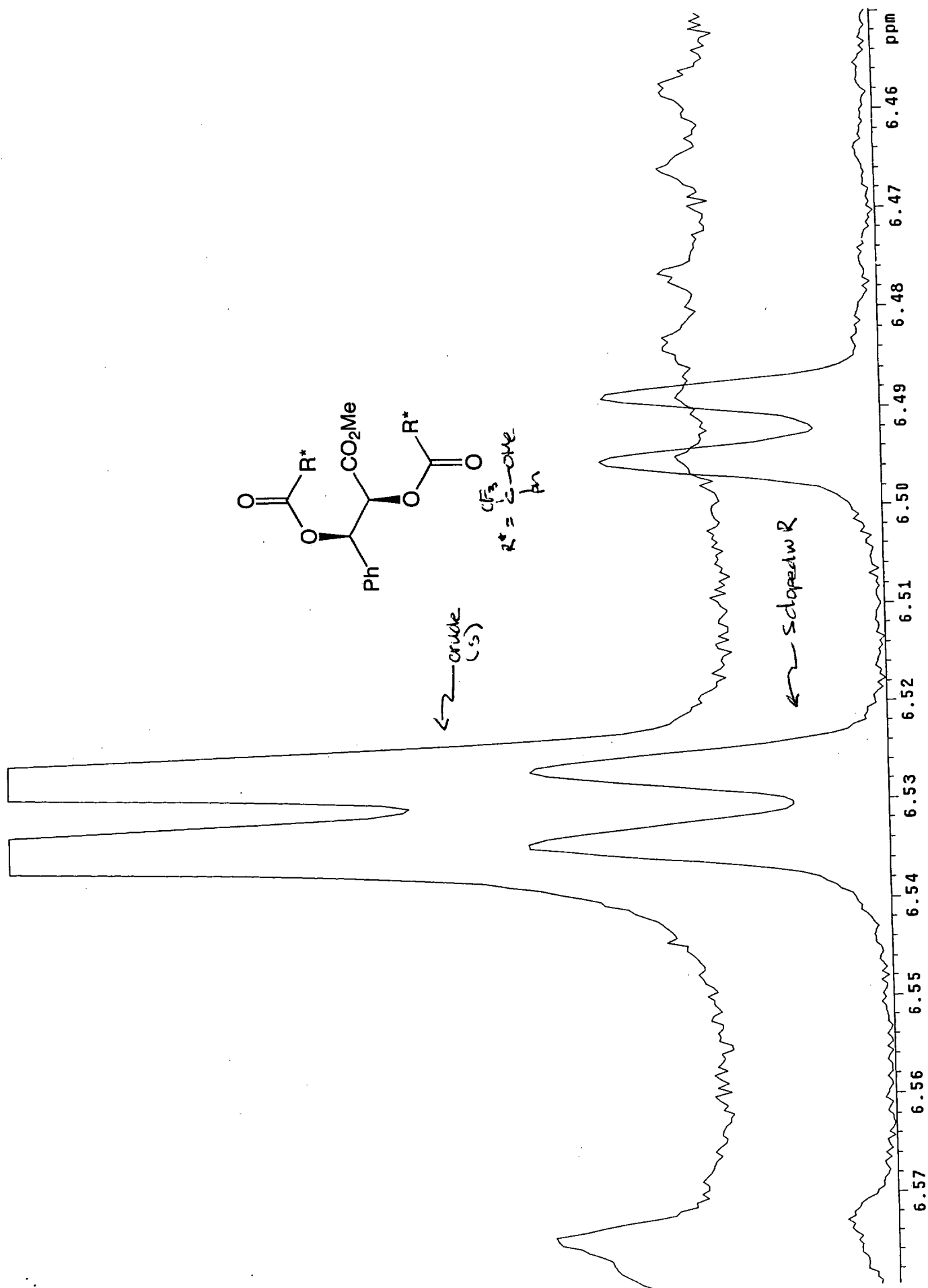
OL010096H

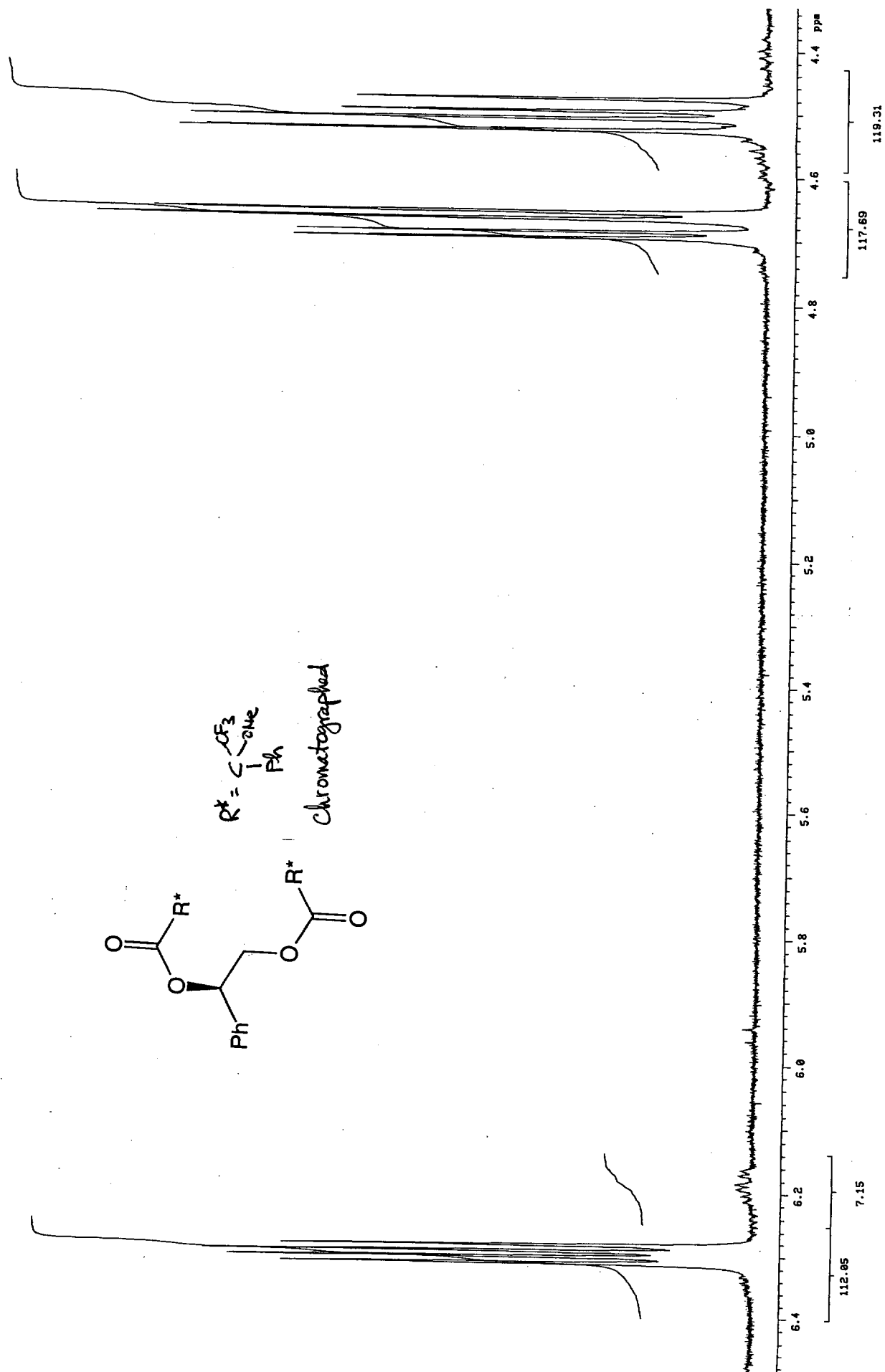


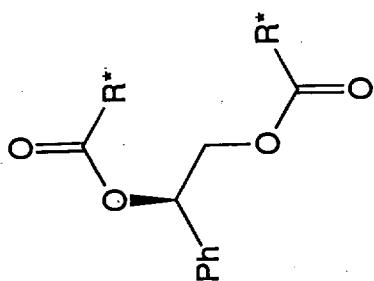






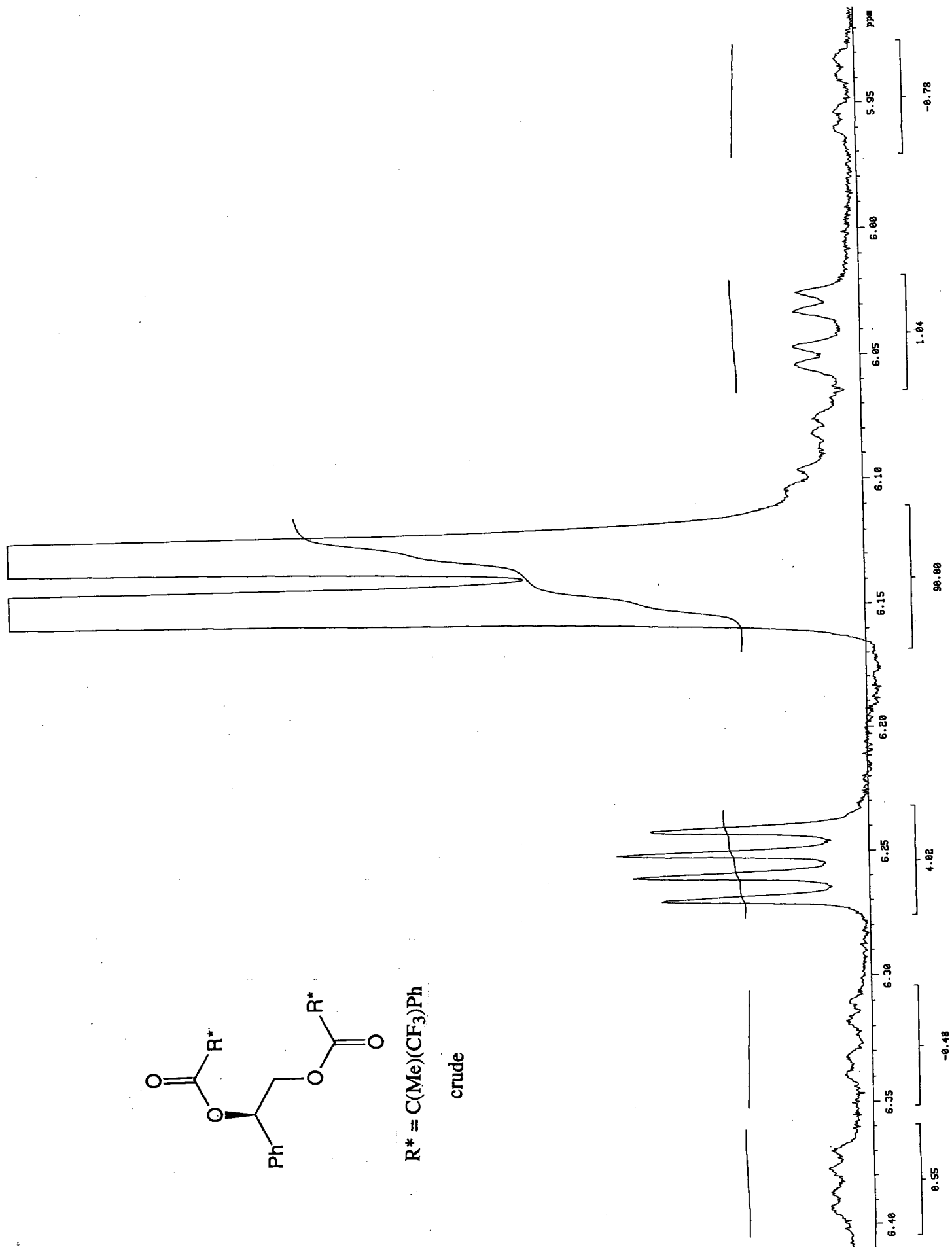


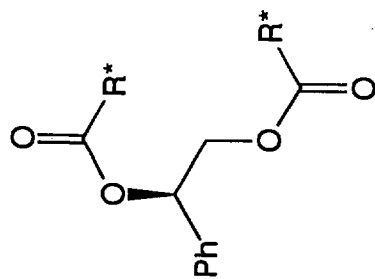




$R^* = C(Me)(CF_3)Ph$

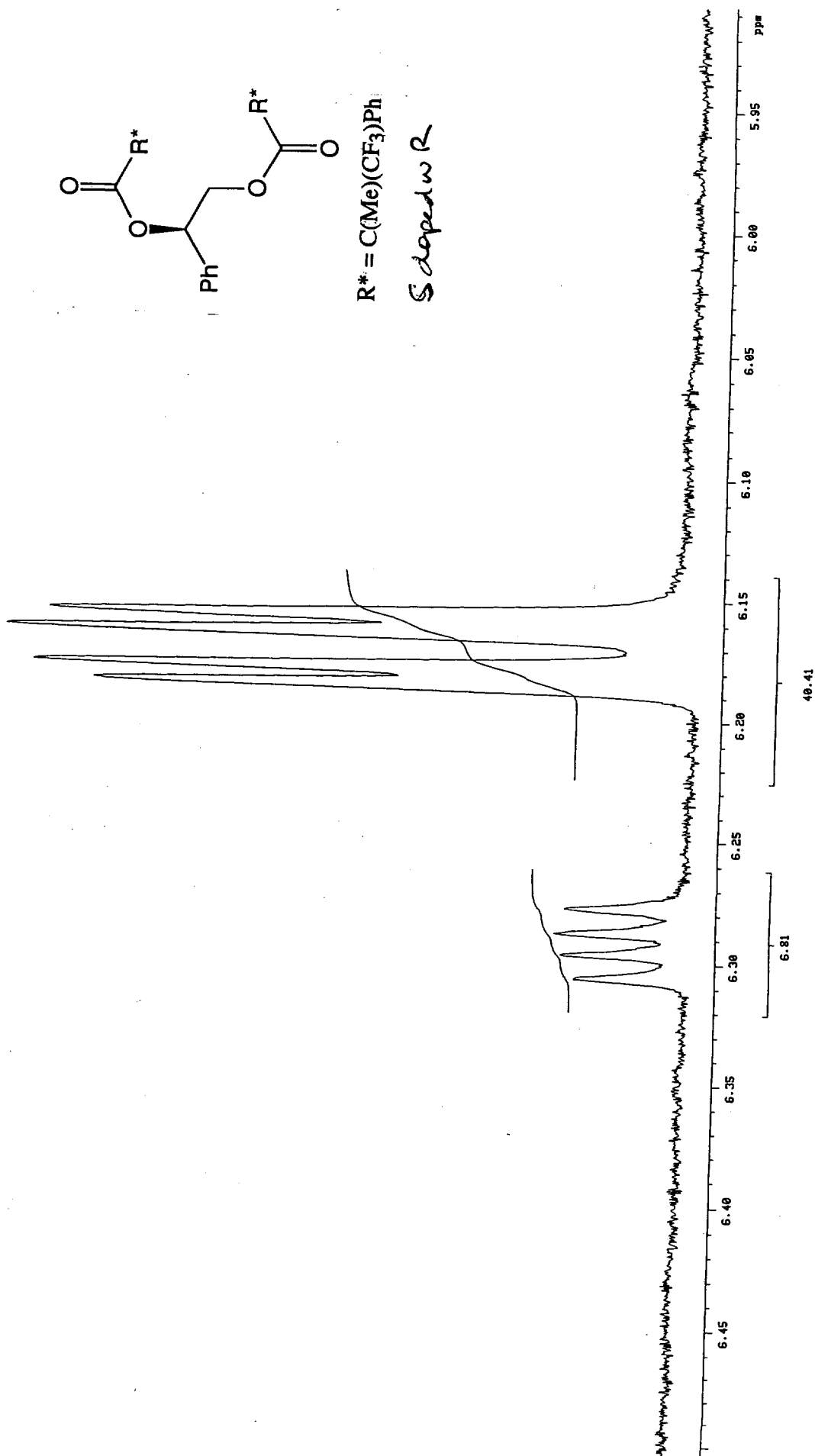
crude

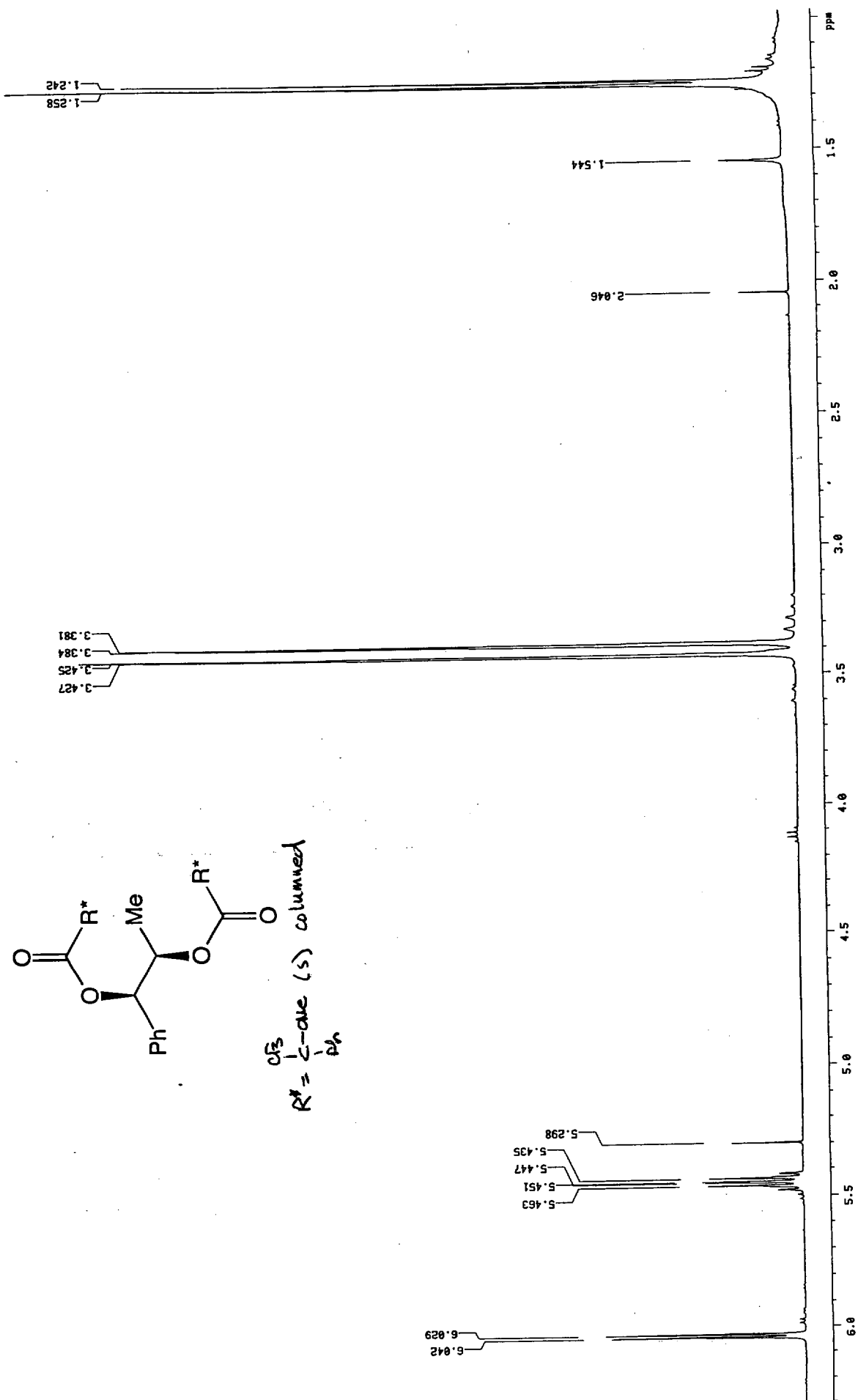


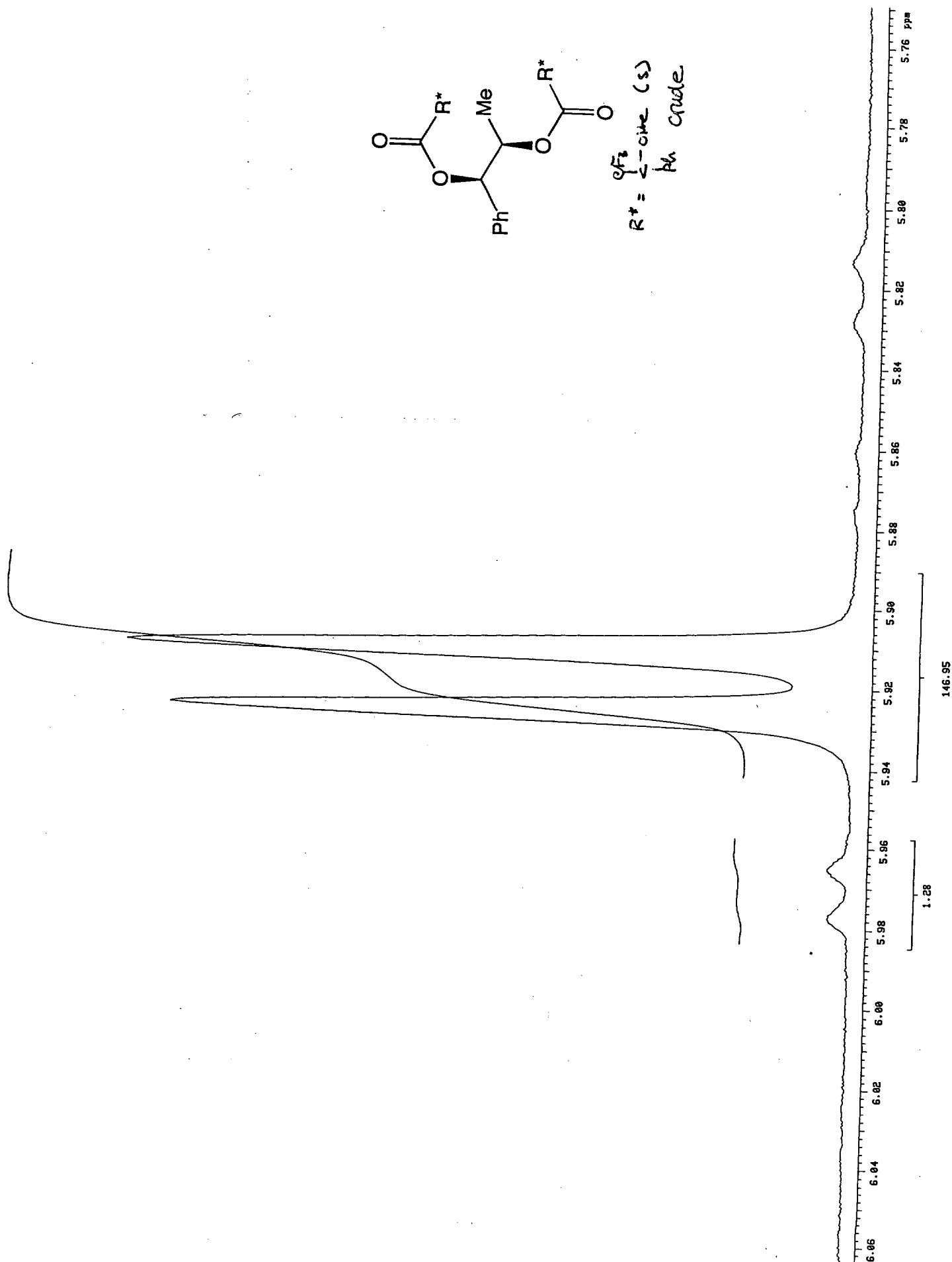


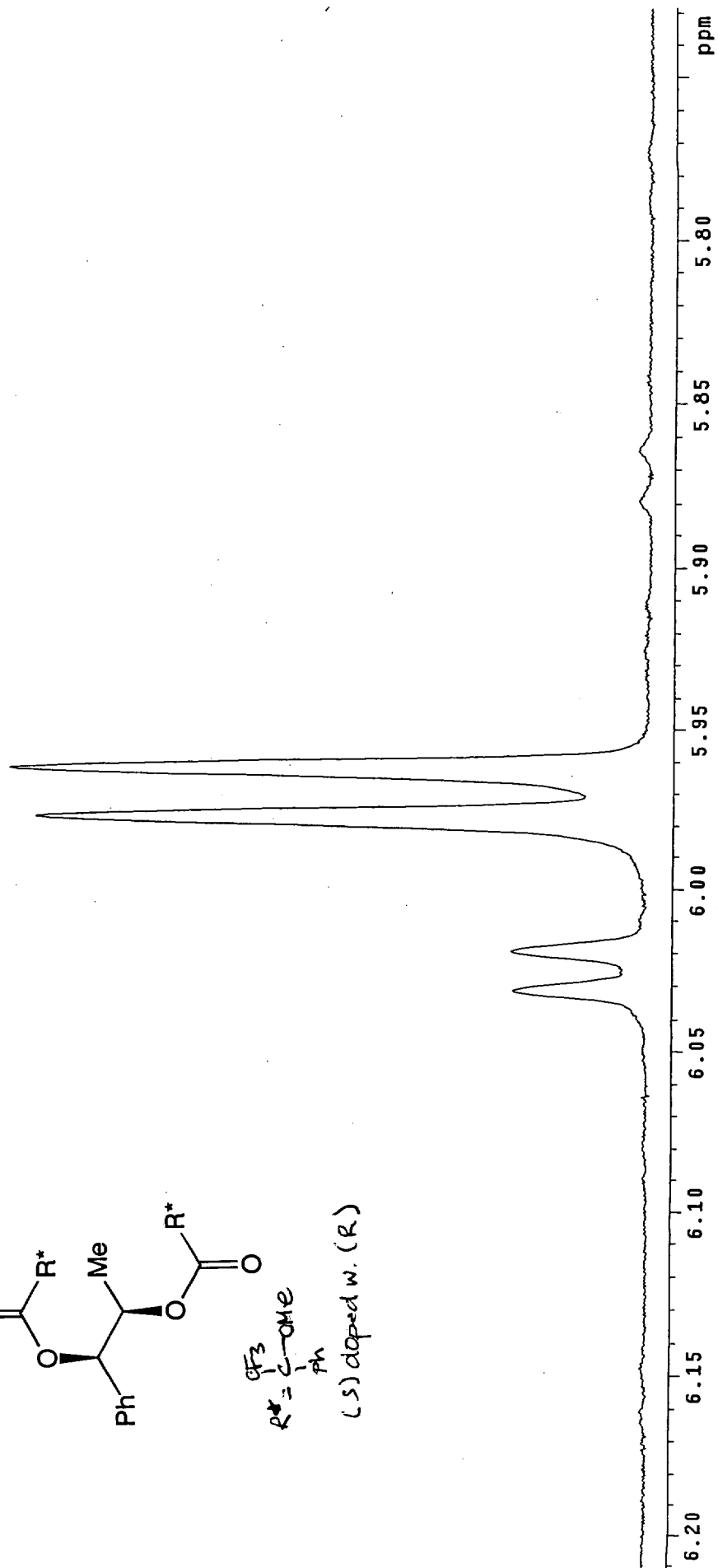
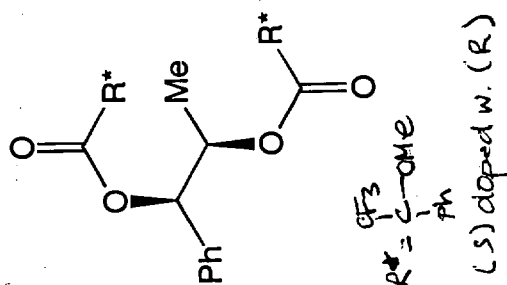
$R^* = C(Me)(CF_3)Ph$

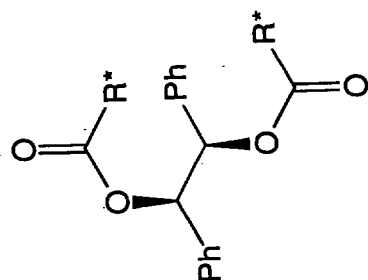
S doped w R









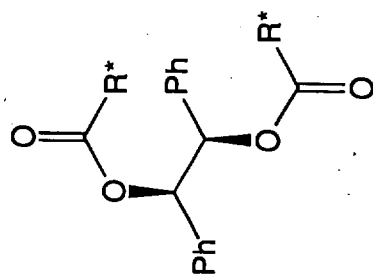


$R^* = \text{chiral } C-\text{O}_2 \text{ (S)}$

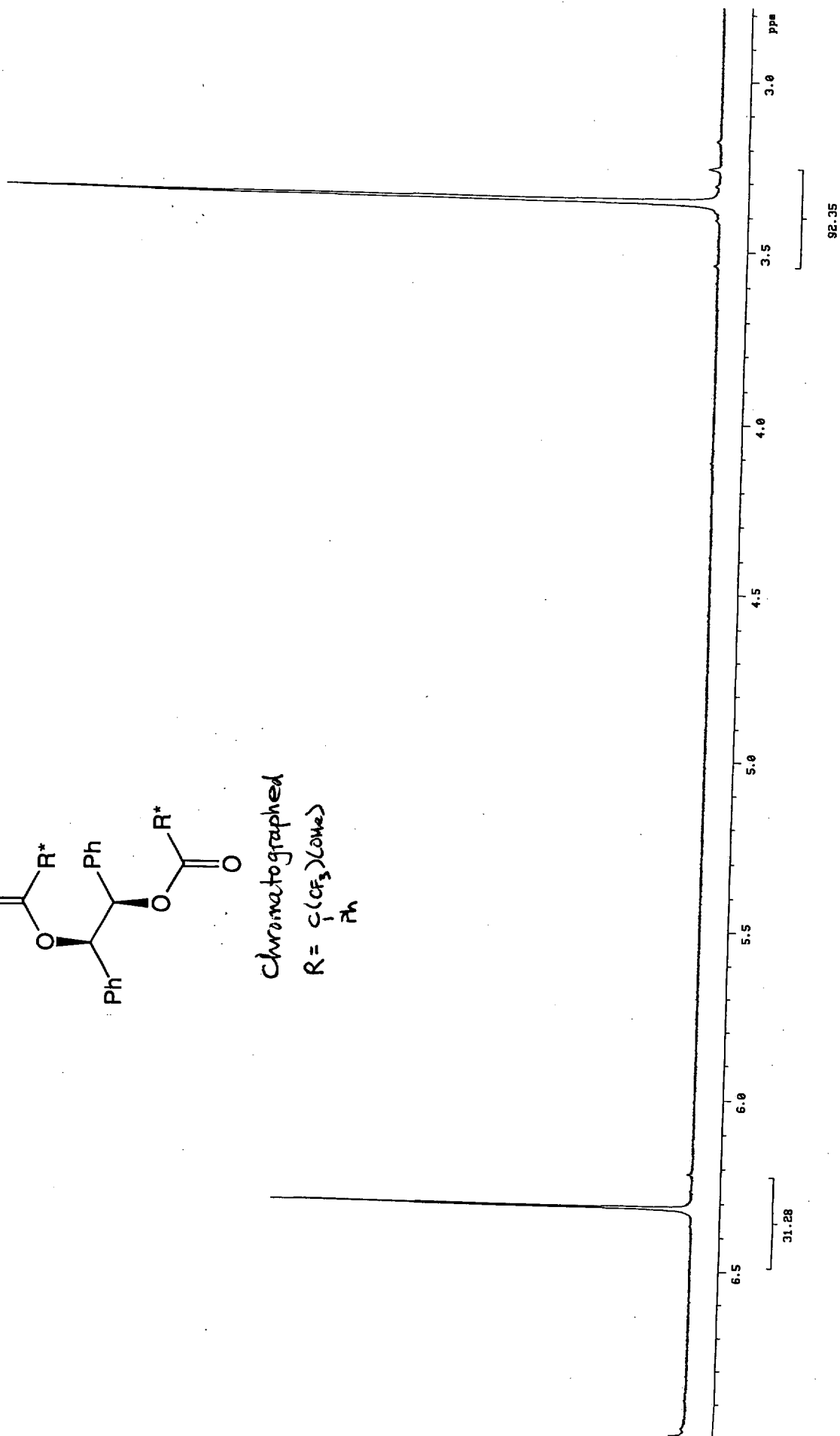
Crude >99% ee

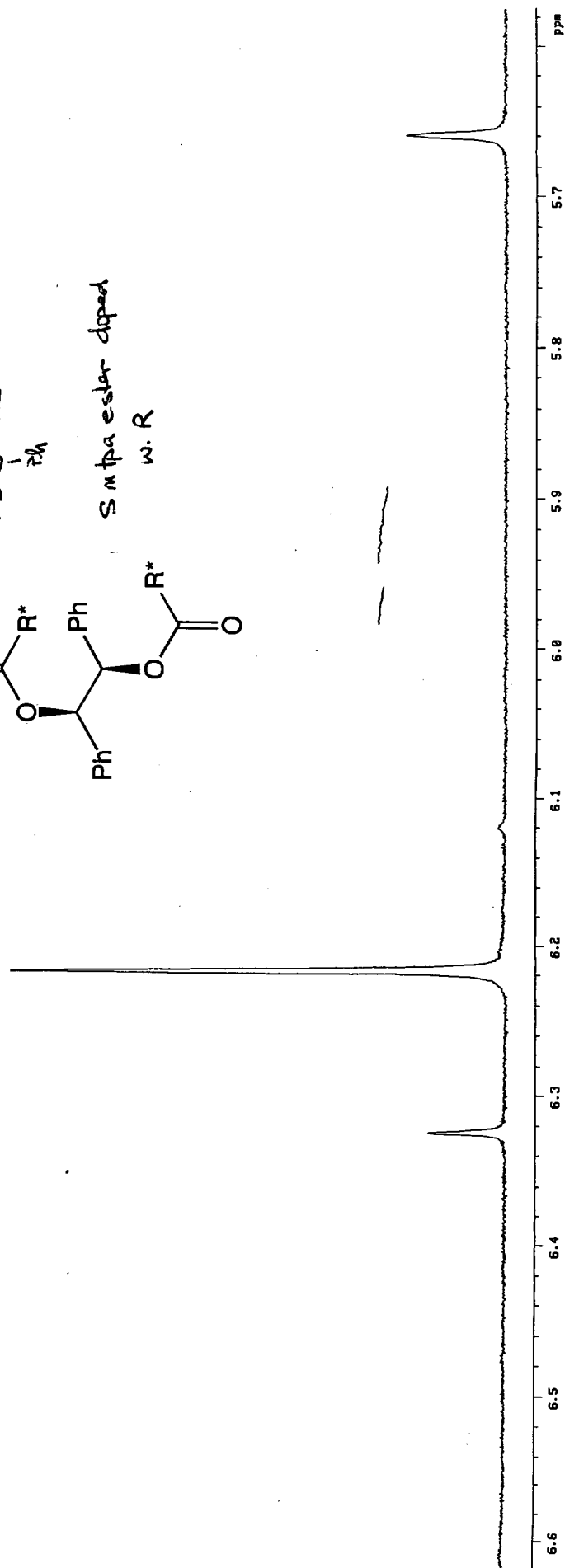
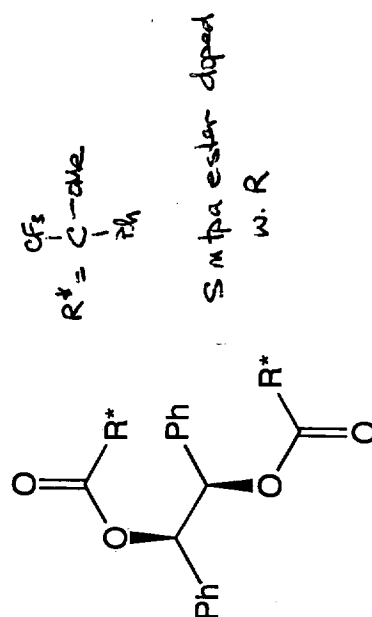


INDEX	FREQUENCY (PPM)	HEIGHT
1	6.315	286.8
2	3.358	485.5



Chromatographed
 $R = \underset{\text{Ph}}{\underset{|}{\text{C}}}(\text{CF}_3)(\text{Cone})$



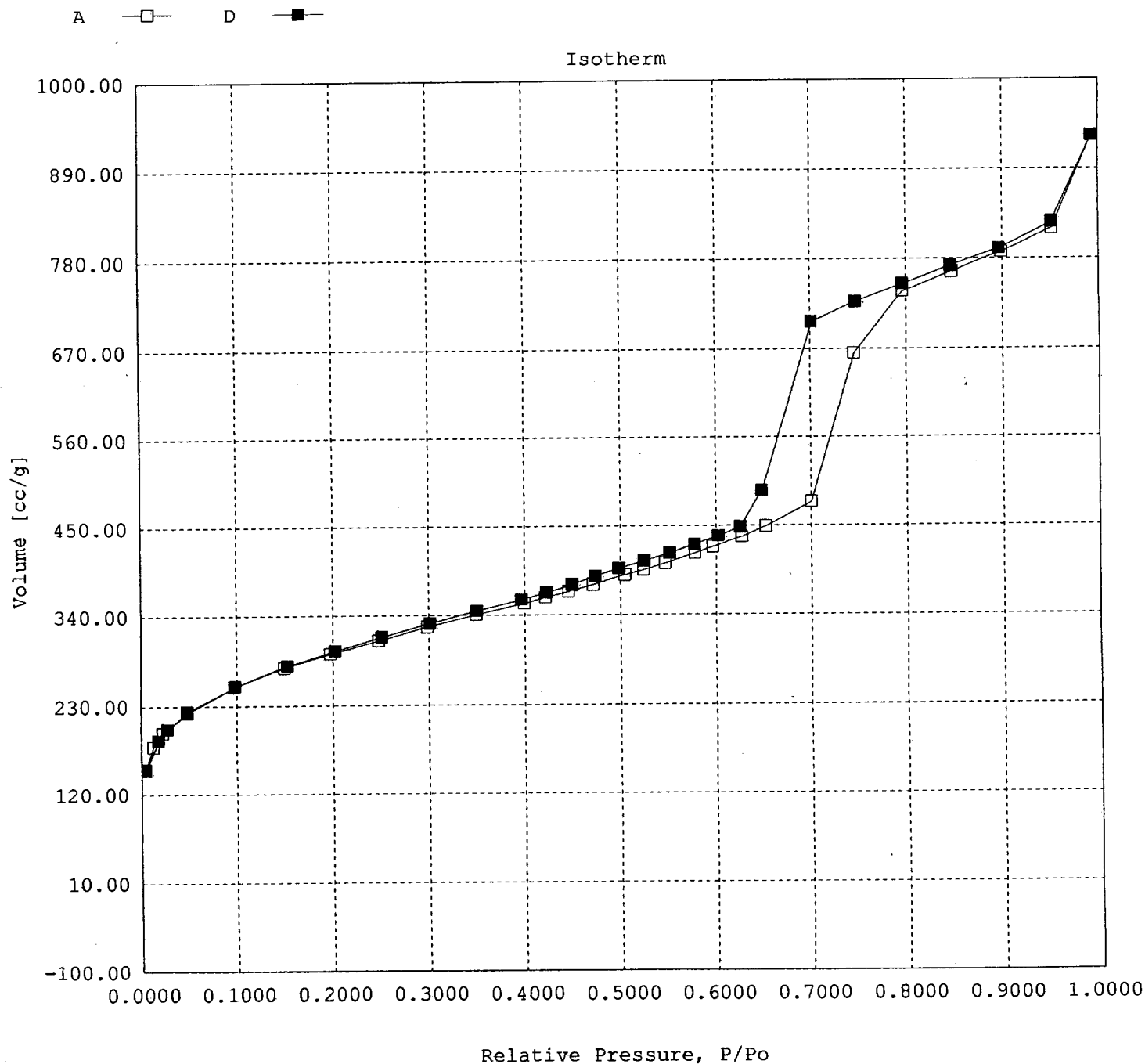


QUANTACHROME AUTOSORB 3
Autosorb for Windows® Version 1.19UNFUNCTIONALIZED
SBA-15

Sample ID sba-15 (SJ)
Description sba-15 calcined
Comments
Sample Weight 0.0926 g
Adsorbate NITROGEN
Cross-Sec Area 16.2 Å²/molecule
NonIdeality 6.580E-05
Molecular Wt 28.0134 g/mol
Station # 1

Outgas Temp 75.0 °C
Outgas Time 22.0 hrs
P/Po Toler 3
Equil Time 2
Bath Temp. 77.35

Operator IM
Analysis Time 1040.2 min
End of Run 10/09/1999 19:38
File Name IMSBACLC.RAW

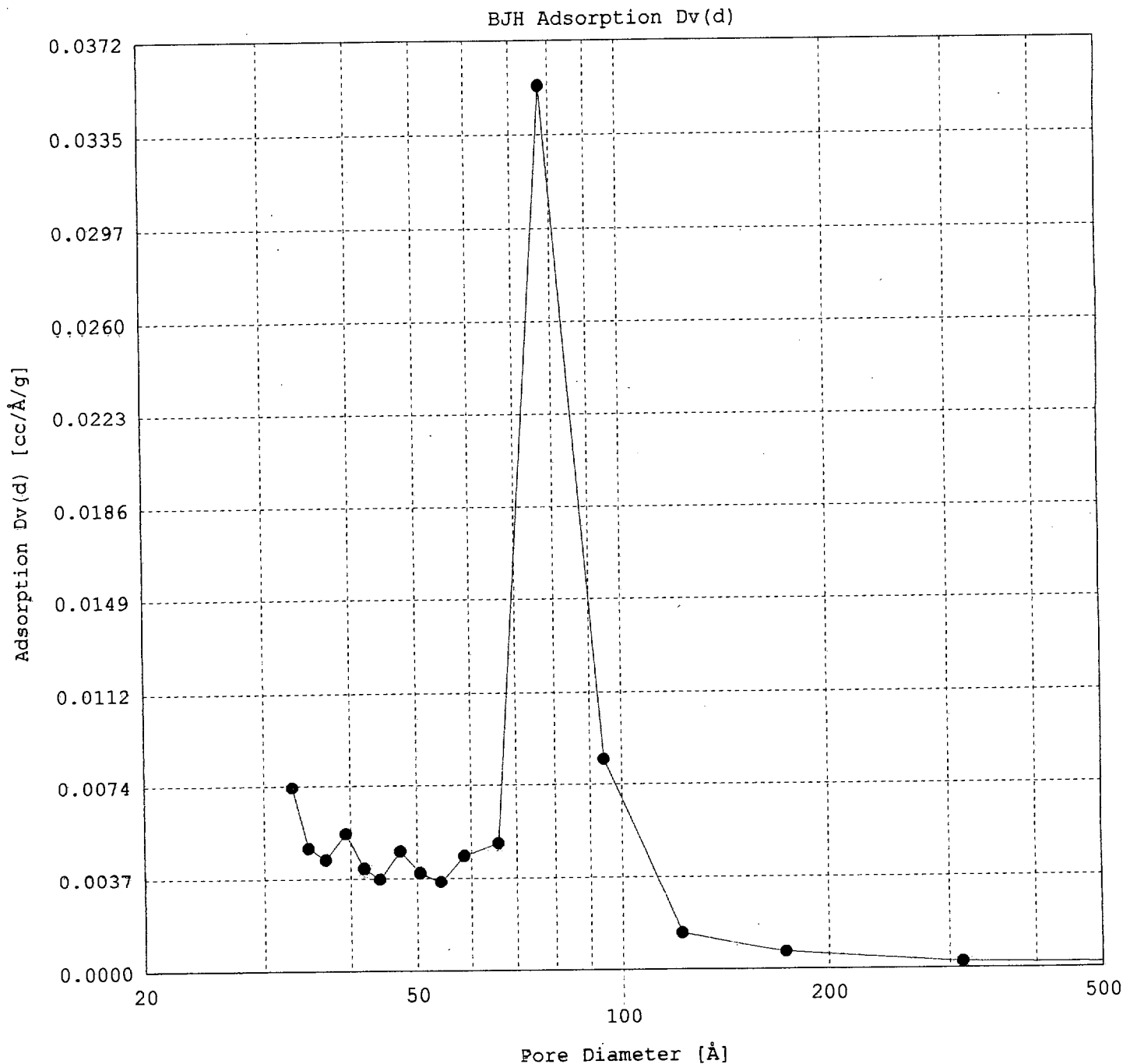


UNFUNCTIONALIZED
SBA-15

Sample ID sba-15(SJ)
Description sba-15 calcined
Comments
Sample Weight 0.0926 g
Adsorbate NITROGEN
Cross-Sec Area 16.2 Å²/molecule
NonIdeality 6.580E-05
Molecular Wt 28.0134 g/mol
Station # 1

Outgas Temp 75.0 °C
Outgas Time 22.0 hrs
P/Po Toler 3
Equil Time 2
Bath Temp. 77.35

Operator IM
Analysis Time 1040.2 min
End of Run 10/09/1999 19:38
File Name IMSBACLC.RAW



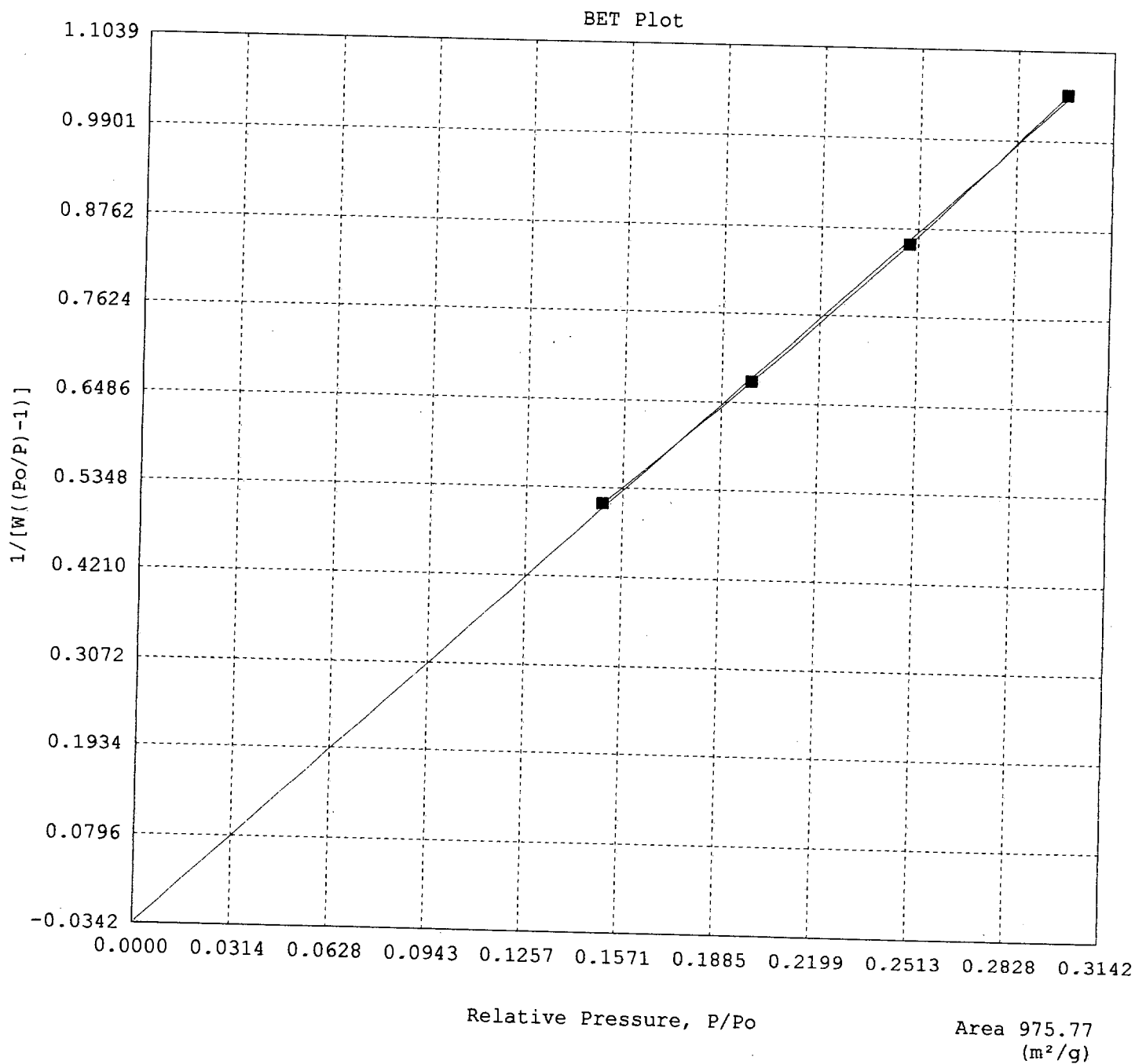
UNFUNCTIONALIZED
SBA-15

Sample ID sba-15(SJ)
Description sba-15 calcined
Comments
Sample Weight 0.0926 g
Adsorbate NITROGEN
Cross-Sec Area 16.2 Å²/molecule
NonIdeality 6.580E-05
Molecular Wt 28.0134 g/mol
Station # 1

Outgas Temp 75.0 °C
Outgas Time 22.0 hrs
P/Po Toler 3
Equil Time 2
Bath Temp. 77.35

Operator IM
Analysis Time 1040.2 min
End of Run 10/09/1999 19:38
File Name IMSBACLC.RAW

A —■— BF ———



Quantachrome AUTOSORB AUTOMATED GAS ADSORPTION SYSTEM
Autosorb for Windows® Version 1.19~~UNFUNCTIONALIZED~~

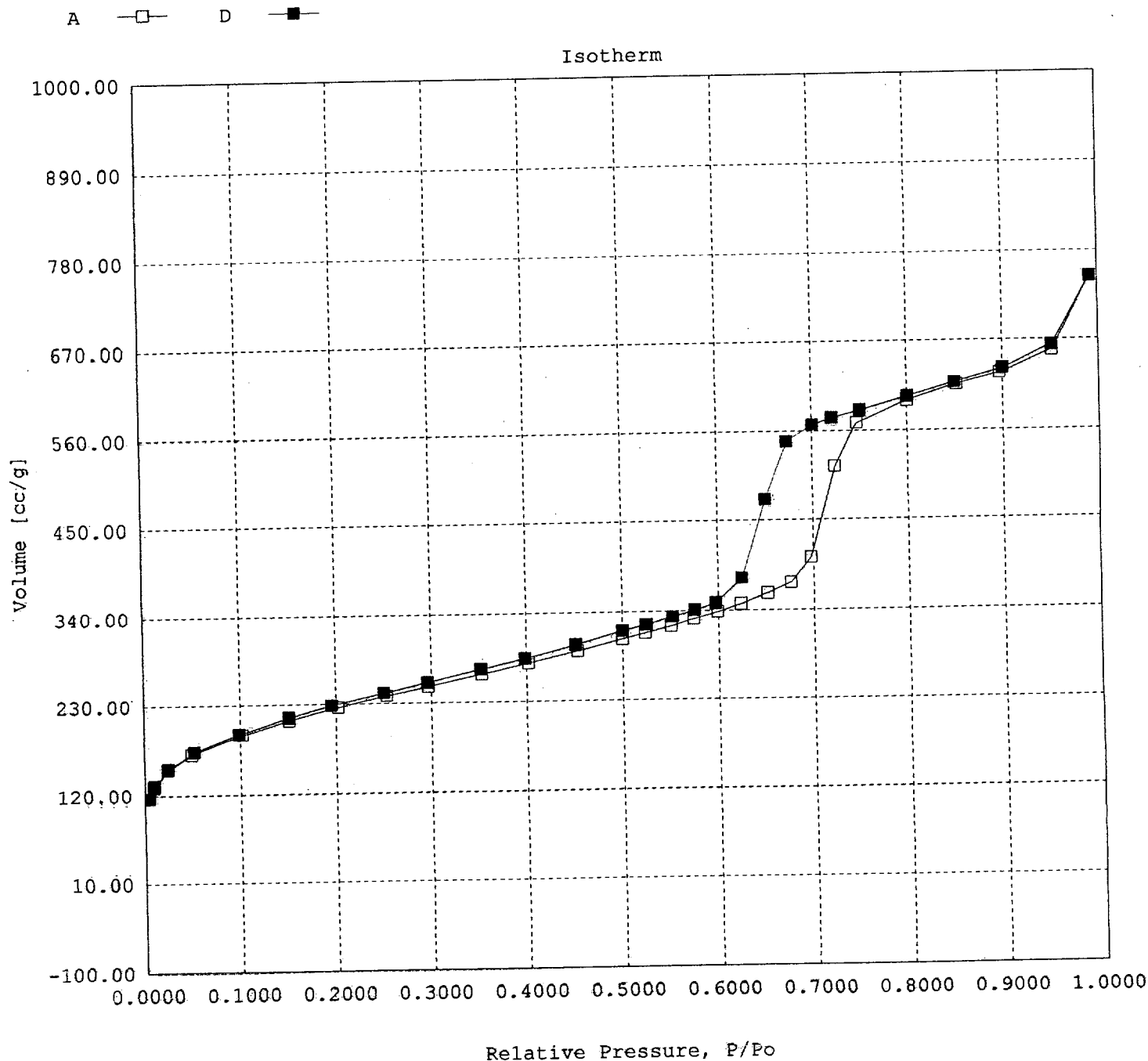
SBA-15

+ CINCHONA ALKALOID

Sample ID SBA-dimerSi
Description SBA-15+phth-q-hq/Si
Comments
Sample Weight 0.1099 g
Adsorbate NITROGEN
Cross-Sec Area 16.2 Å²/molecule
NonIdeality 6.580E-05
Molecular Wt 28.0134 g/mol
Station # 1

Outgas Temp 75.0 °C
Outgas Time 24.0 hrs
P/Po Toler 0
Equil Time 2
Bath Temp. 77.35

Operator IM
Analysis Time 1341.4 min
End of Run 11/11/1999 12:43
File Name IMSBADSI.RAW



Quantachrome Autosorb Automated Gas Sorption
Autosorb for Windows® Version 1.19

SBA-15 +

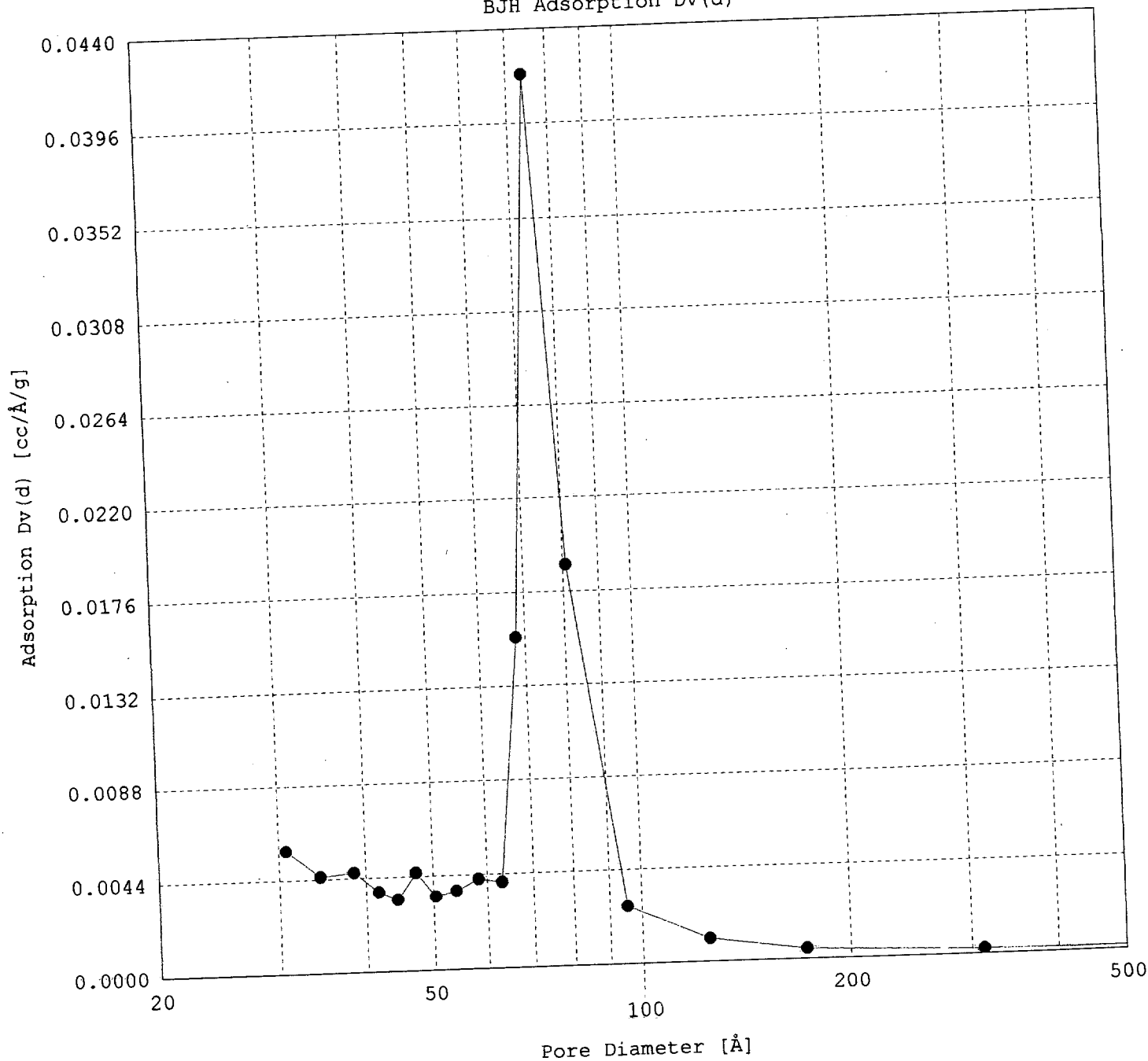
CINCHONA ALKALOID

Sample ID SBA-dimerSi
 Description SBA-15+phth-q-hq/Si
 Comments
 Sample Weight 0.1099 g
 Adsorbate NITROGEN
 Cross-Sec Area 16.2 Å²/molecule
 NonIdeality 6.580E-05
 Molecular Wt 28.0134 g/mol
 Station # 1

Outgas Temp 75.0 °C
 Outgas Time 24.0 hrs
 P/Po Toler 0
 Equil Time 2
 Bath Temp. 77.35

Operator IM
 Analysis Time 1341.4 min
 End of Run 11/11/1999 12:43
 File Name IMSEADSI.RAW

BJH Adsorption Dv(d)



SBA-15

+ CINSURON ALKALO

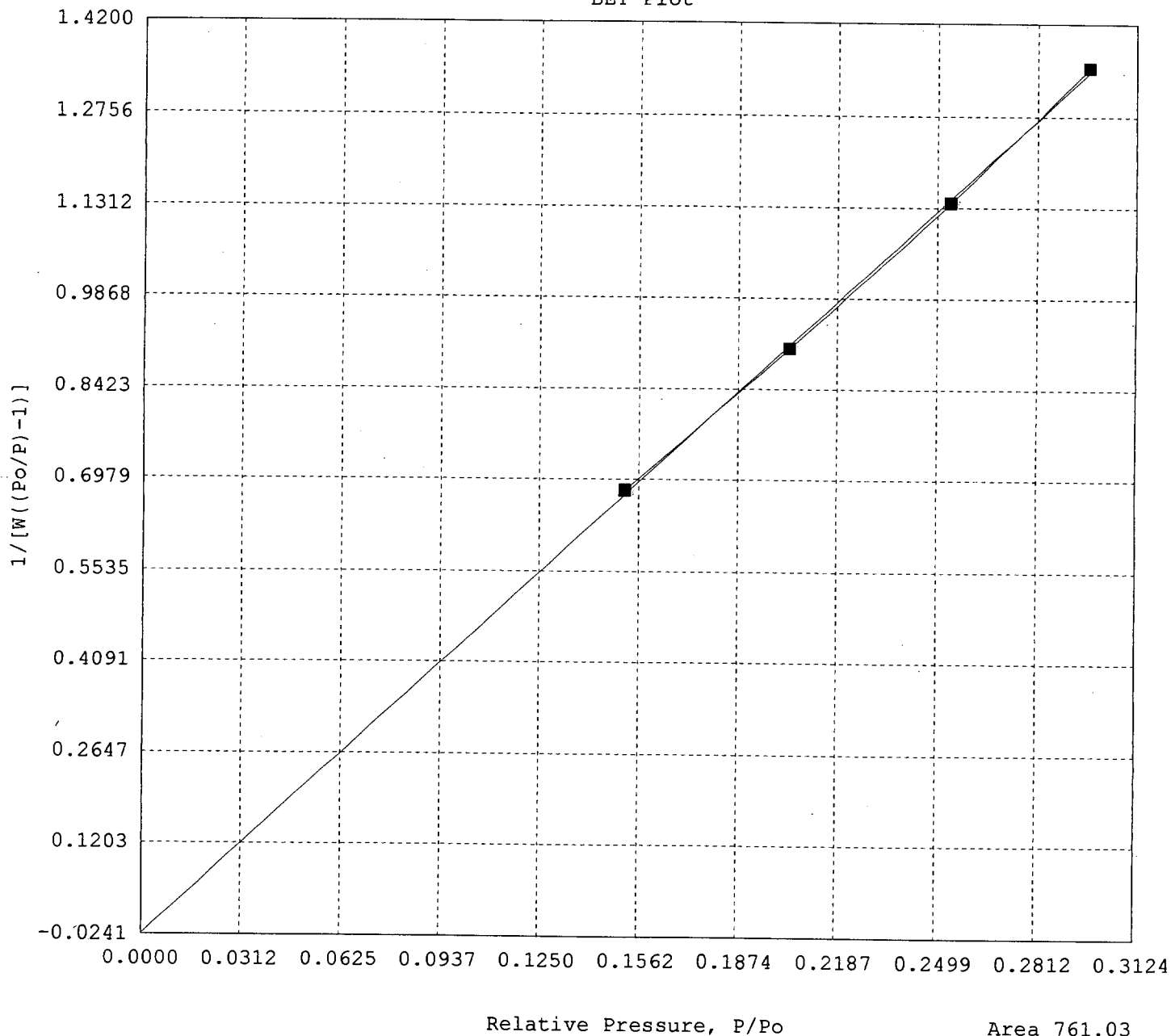
Sample ID SBA-dimerSi
 Description SBA-15+phth-q-hq/Si
 Comments
 Sample Weight 0.1099 g
 Adsorbate NITROGEN
 Cross-Sec Area 16.2 Å²/molecule
 NonIdeality 6.580E-05
 Molecular Wt 28.0134 g/mol
 Station # 1

Outgas Temp 75.0 °C
 Outgas Time 24.0 hrs
 P/Po Toler 0
 Equil Time 2
 Bath Temp. 77.35

Operator IM
 Analysis Time 1341.4 min
 End of Run 11/11/1999 12:43
 File Name IMSBADSI.RAW

A —■— BF ———

BET Plot



Area 761.03
 (m²/g)