



T A B L E O F C O N T E N T S

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## 1 INTRODUCTION

Six extracted fractions (3 Sat and 3 Aro) from the depth intervals 3783.91-3784.21 m (S-345), 3806.16-3806.58 m (S-345) and 3844.97 m (S-346) were received.

The samples were combusted and the CO<sub>2</sub> gases were measured on a Finnigan Mat 251 mass spectrometer to determine the  $\delta^{13}\text{C}$ -values. Our  $\delta^{13}\text{C}$  values on the NBS-21 and the NBS-22 standards are -28.2 and -29.77, respectively.

## 2 RESULTS

The results are given in the following table.

Sample	$\delta^{13}\text{C}$ Sat	$\delta^{13}\text{C}$ Aro
S-345 3783.91-3784.21 m	-29.7	-28.0
S-343 3806.16-3806.58 m	-29.8	-28.1
S-346 3844.97 m	-29.6	-28.1

### 3 INTERPRETATION

The three samples are all derived from the same type of source rock, with isotopically homogeneous kerogens.

The data are plotted in Fig. 1 from Elvsborg et al (1984)\*.

The results do not discriminate between FM H2-2 and FM H1-1. Since this is probably a relatively advanced maturity stage FM H2-2 is favoured.

\* Elvsborg A, Hagevang T og Throndsen T (1984): Origin of the gas/condensate of the Midgard field at Haltenbanken.

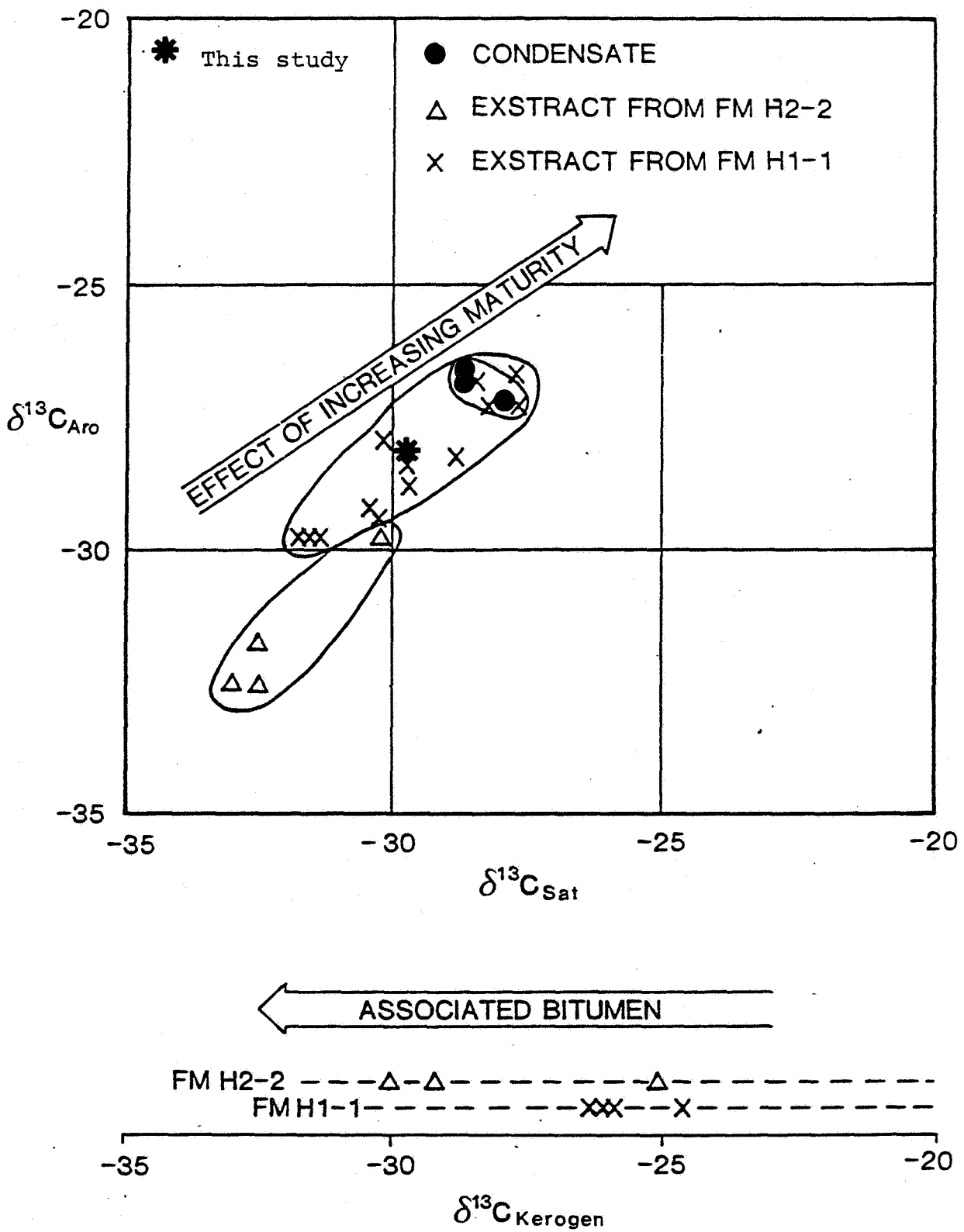
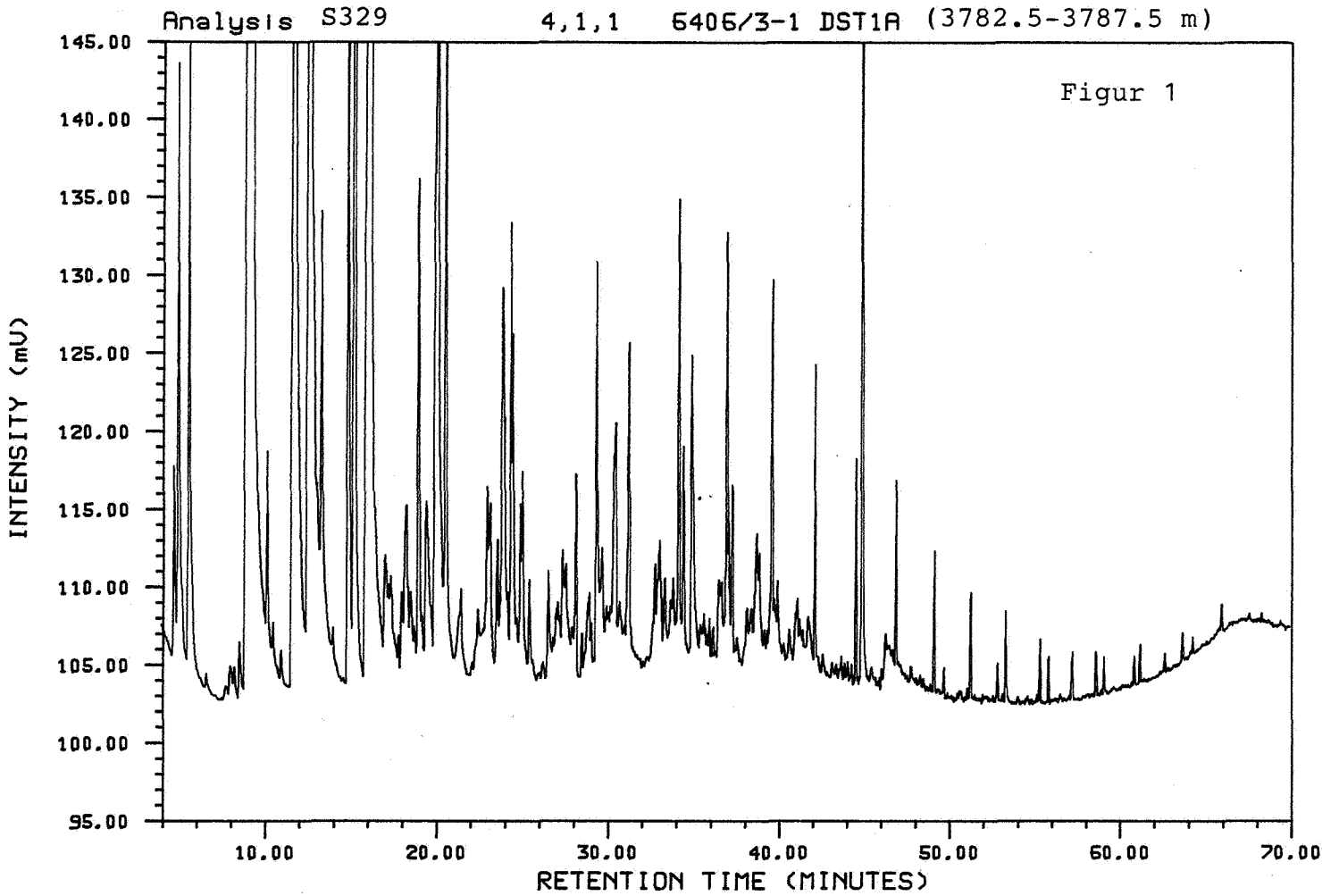
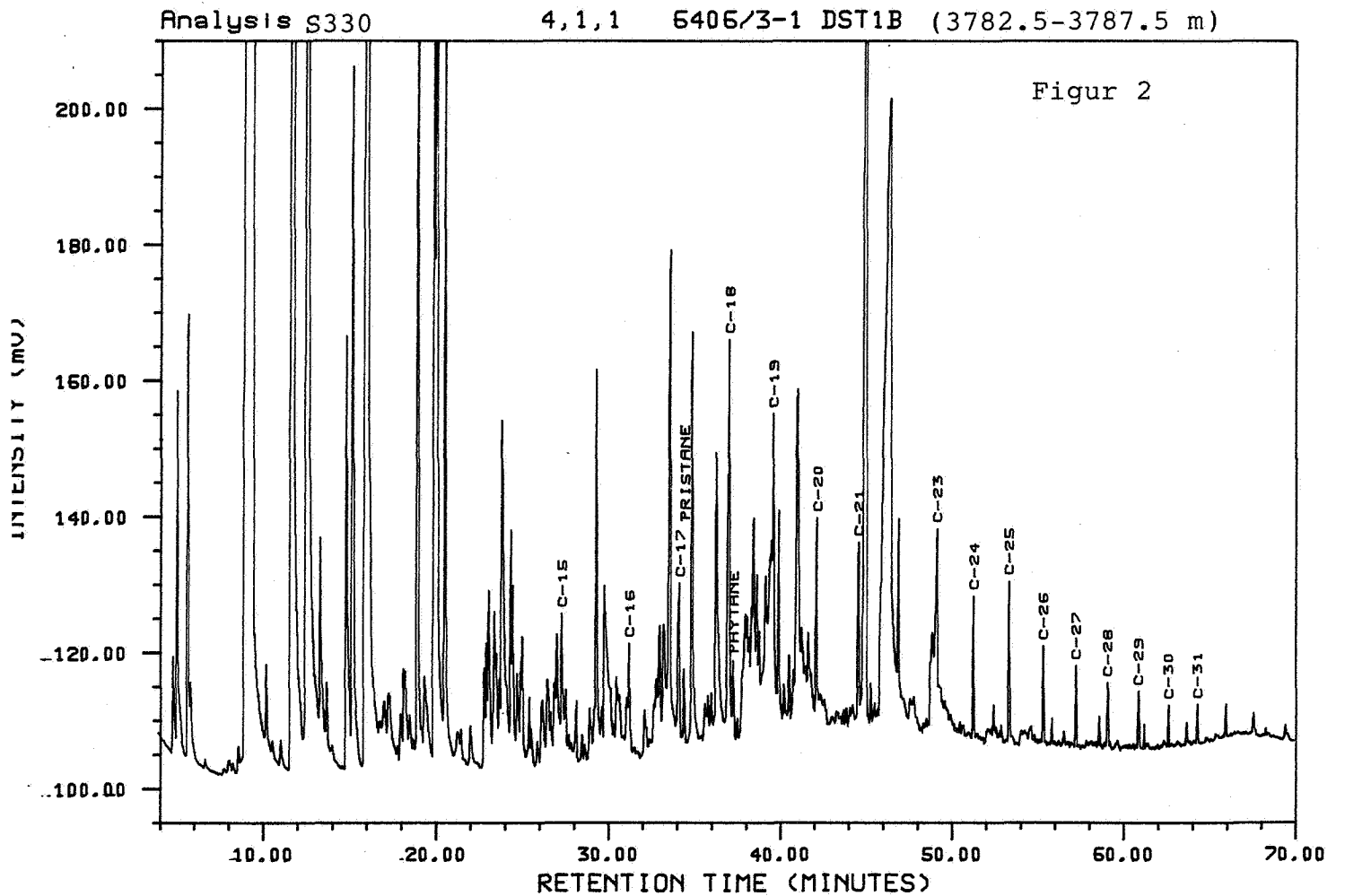


Figure 1

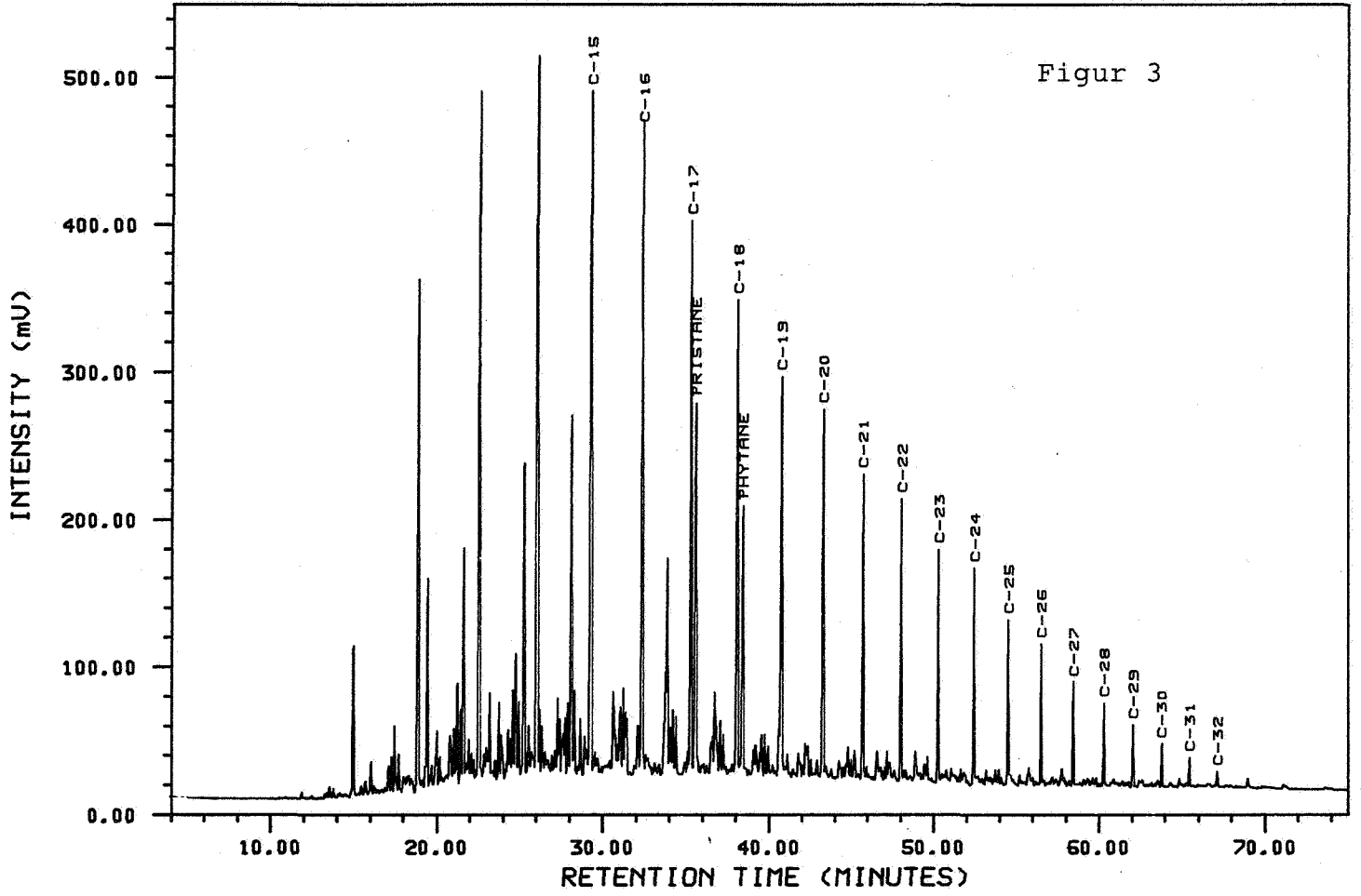


K1. 11.45./02.08.84



Analysis S340I

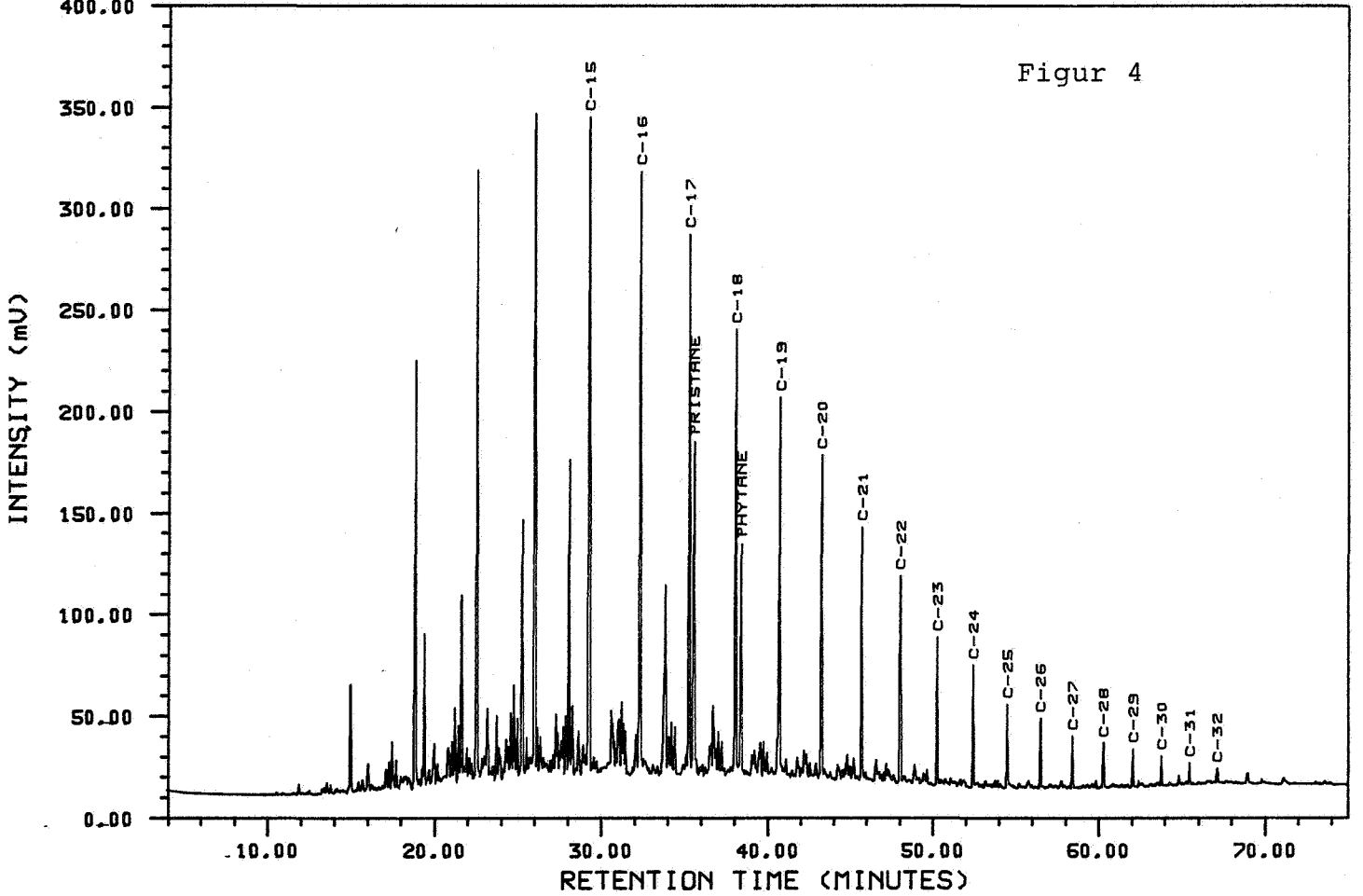
4,1,1 6406/3-1 (3813.56-3813.93 m)



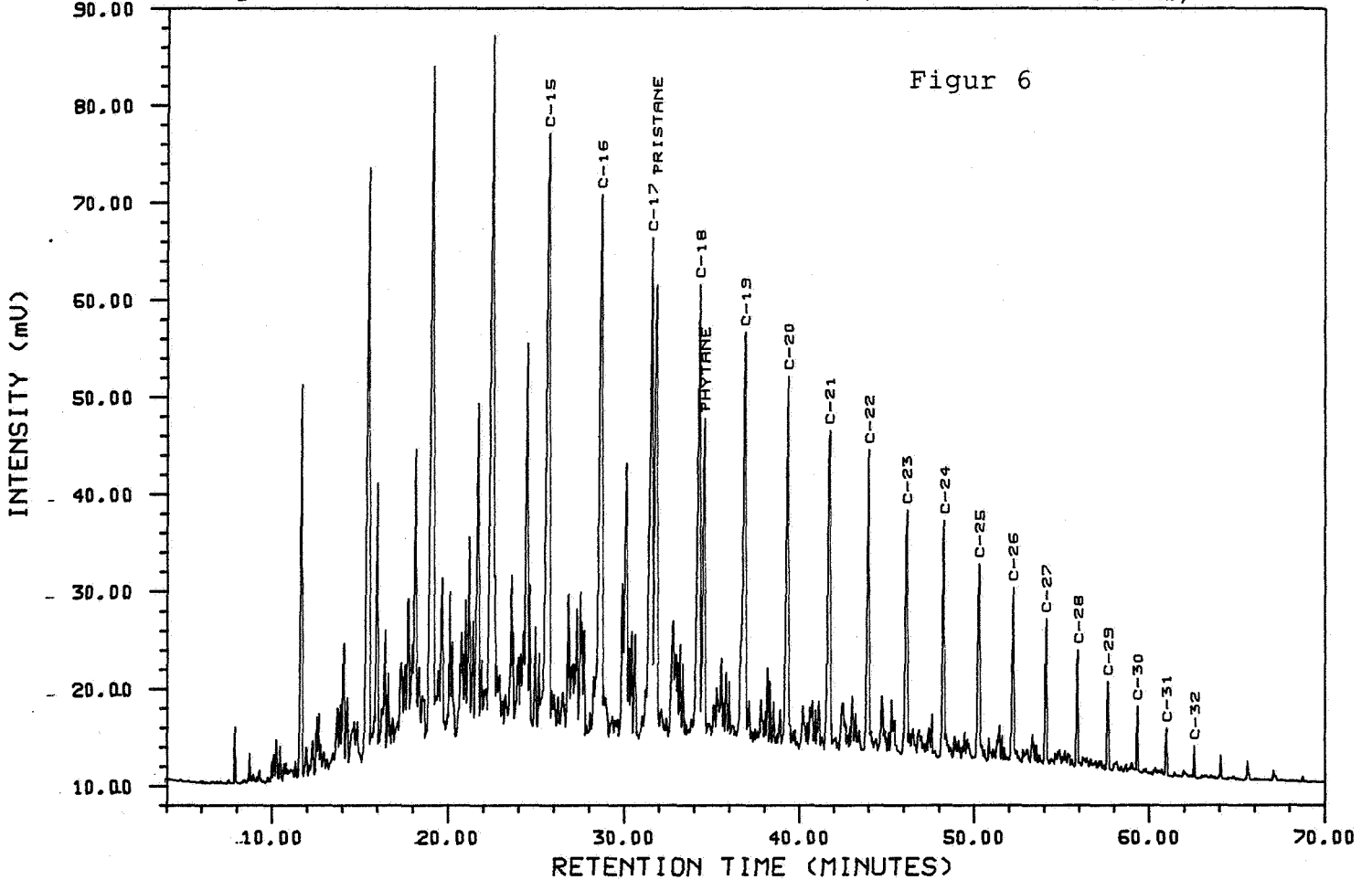
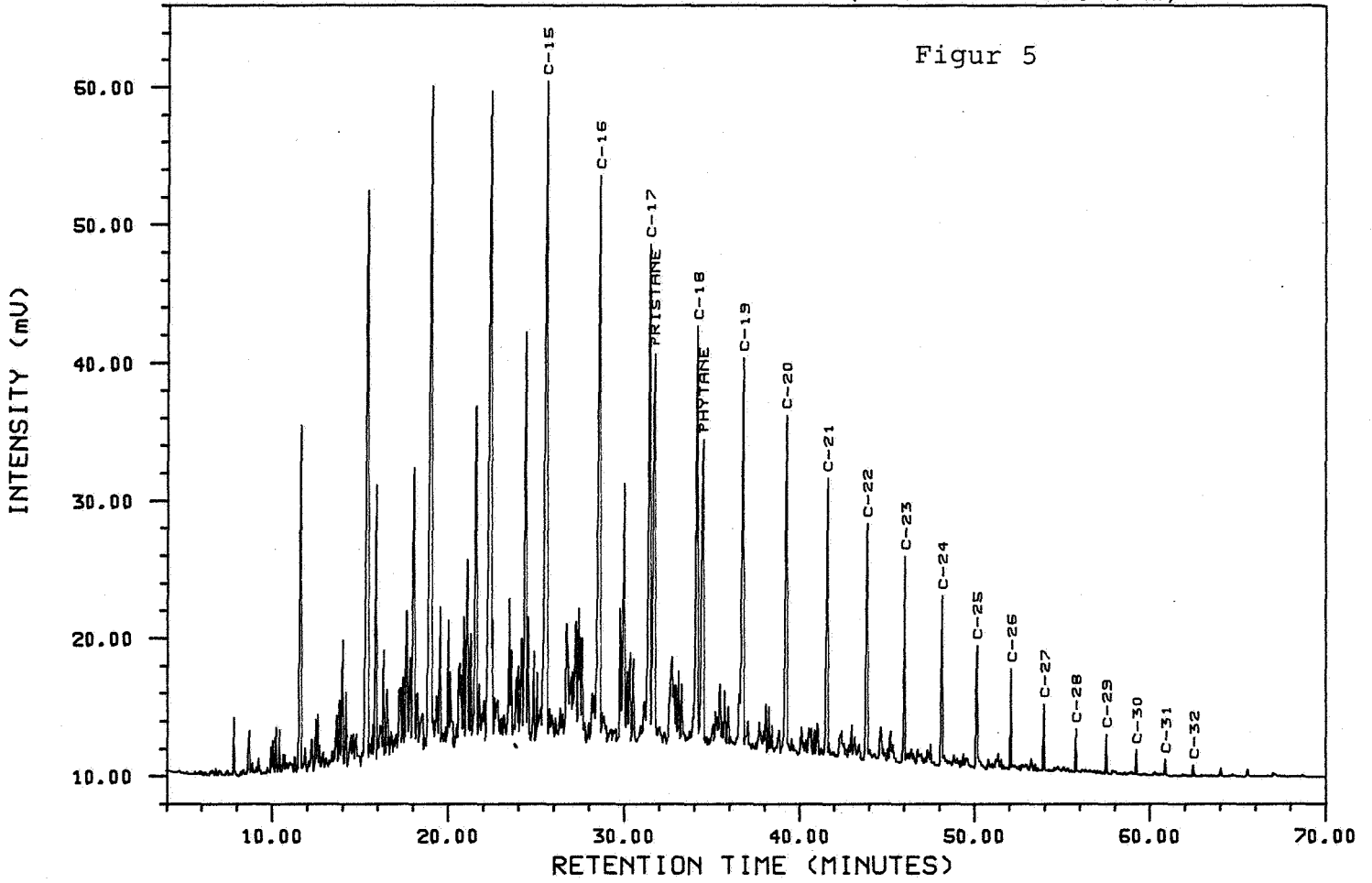
Figur 3

Analysis S341I

4,1,1 6406/3-1 (3822.69-3822.89 m)



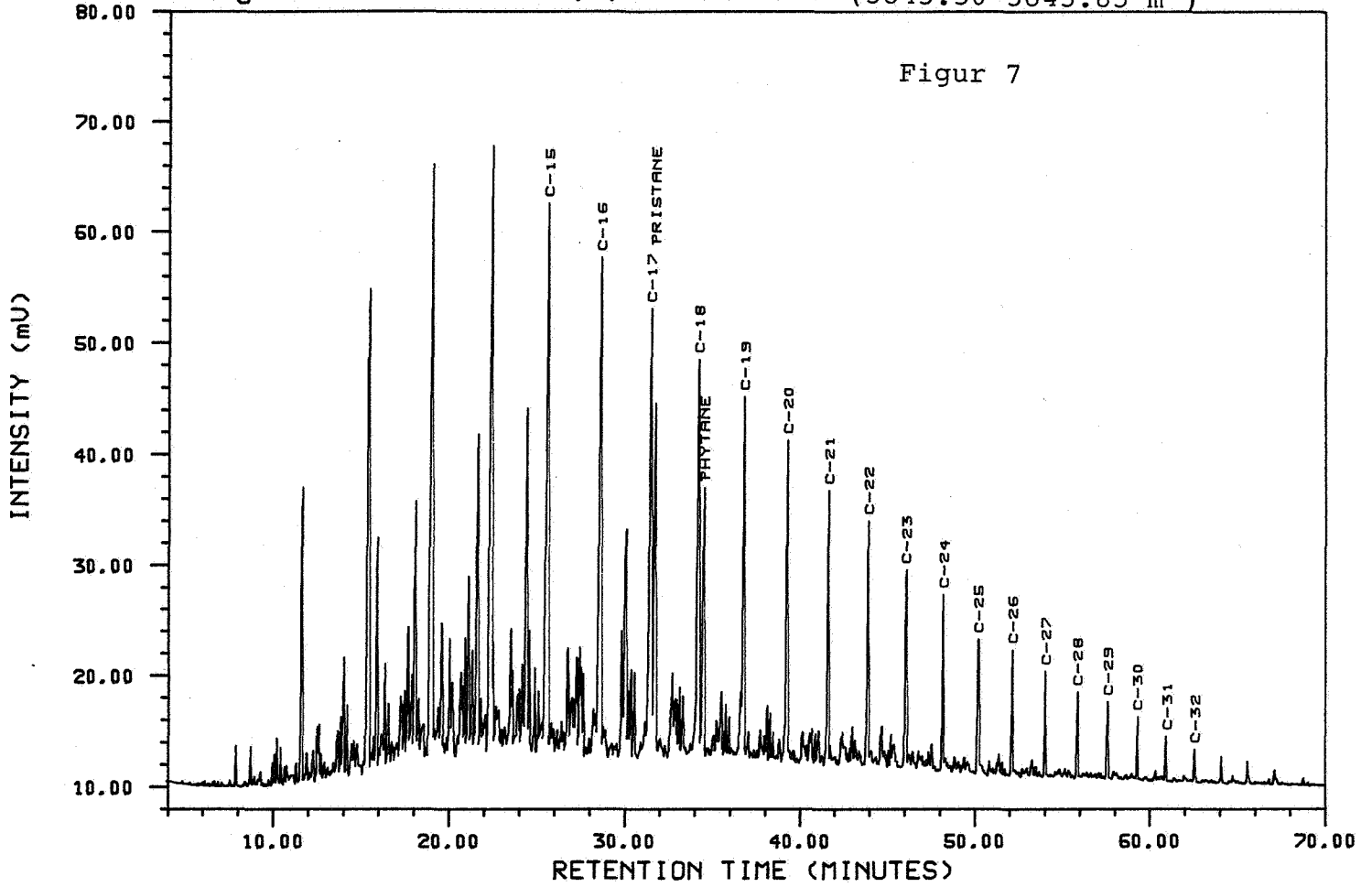
Figur 4





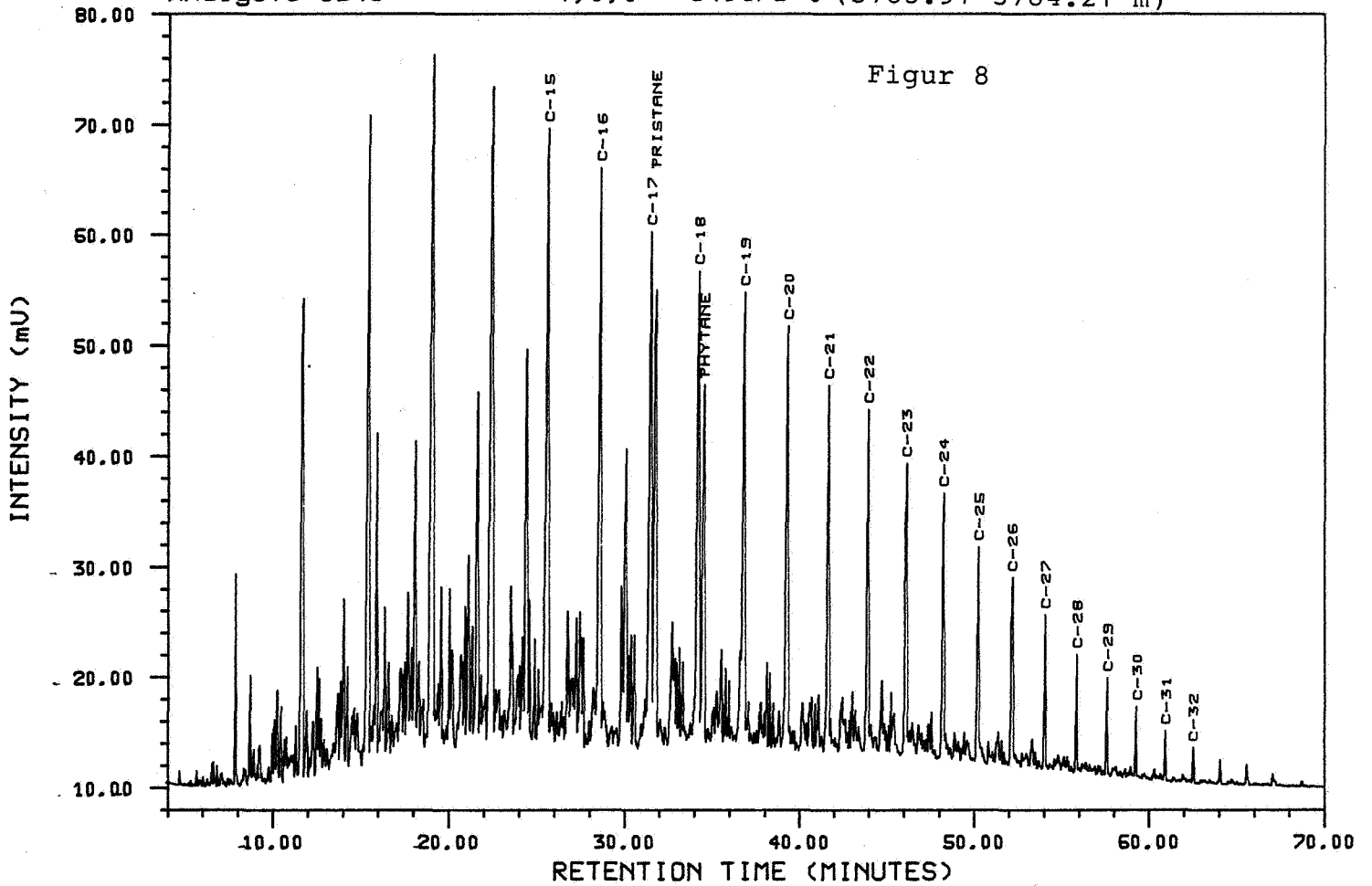
Analysis S344

4,1,1 6406/3-1 (3843.50-3843.85 m)



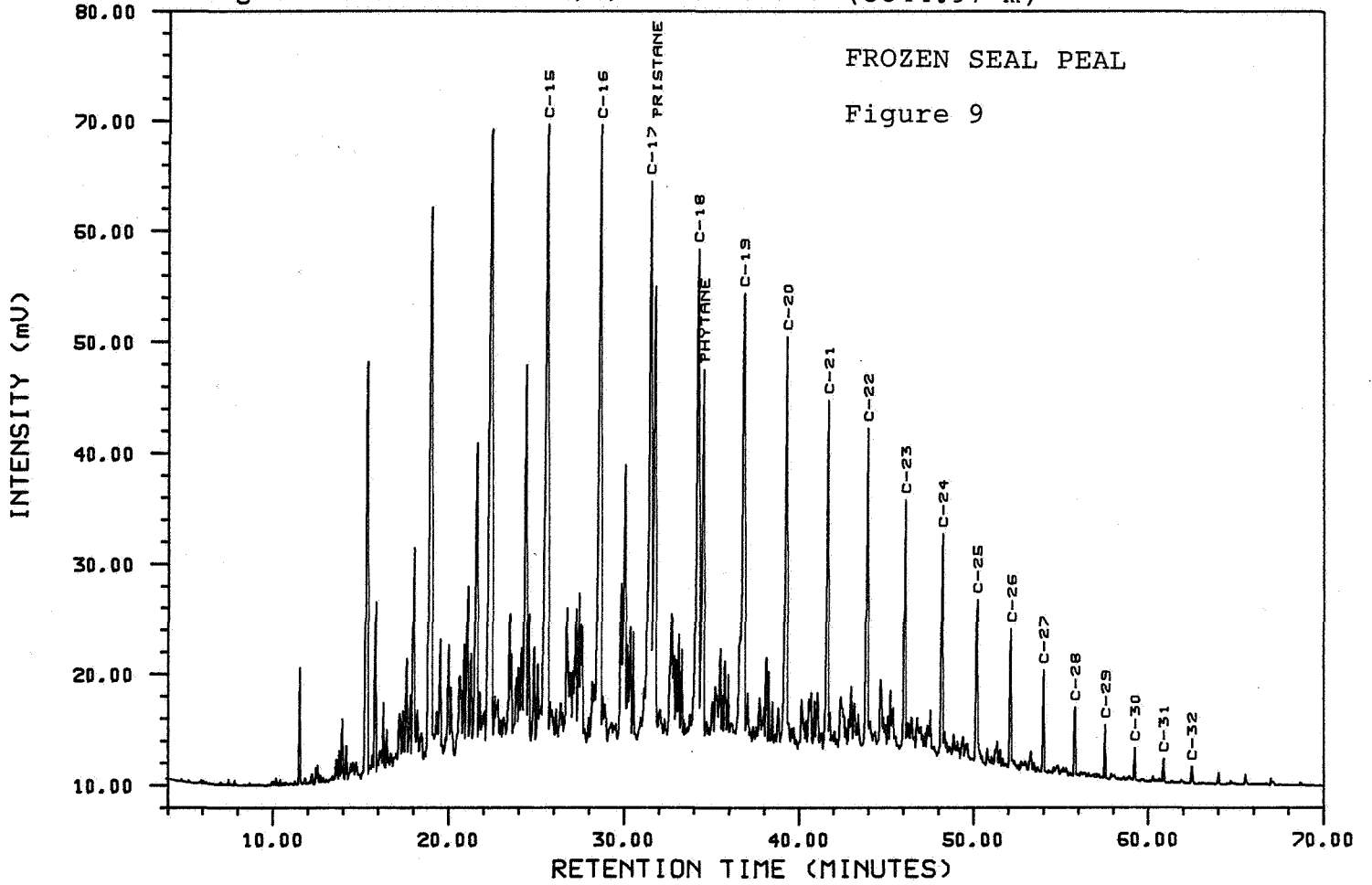
Analysis S345

4,1,1 6406/3-1 (3783.91-3784.21 m)



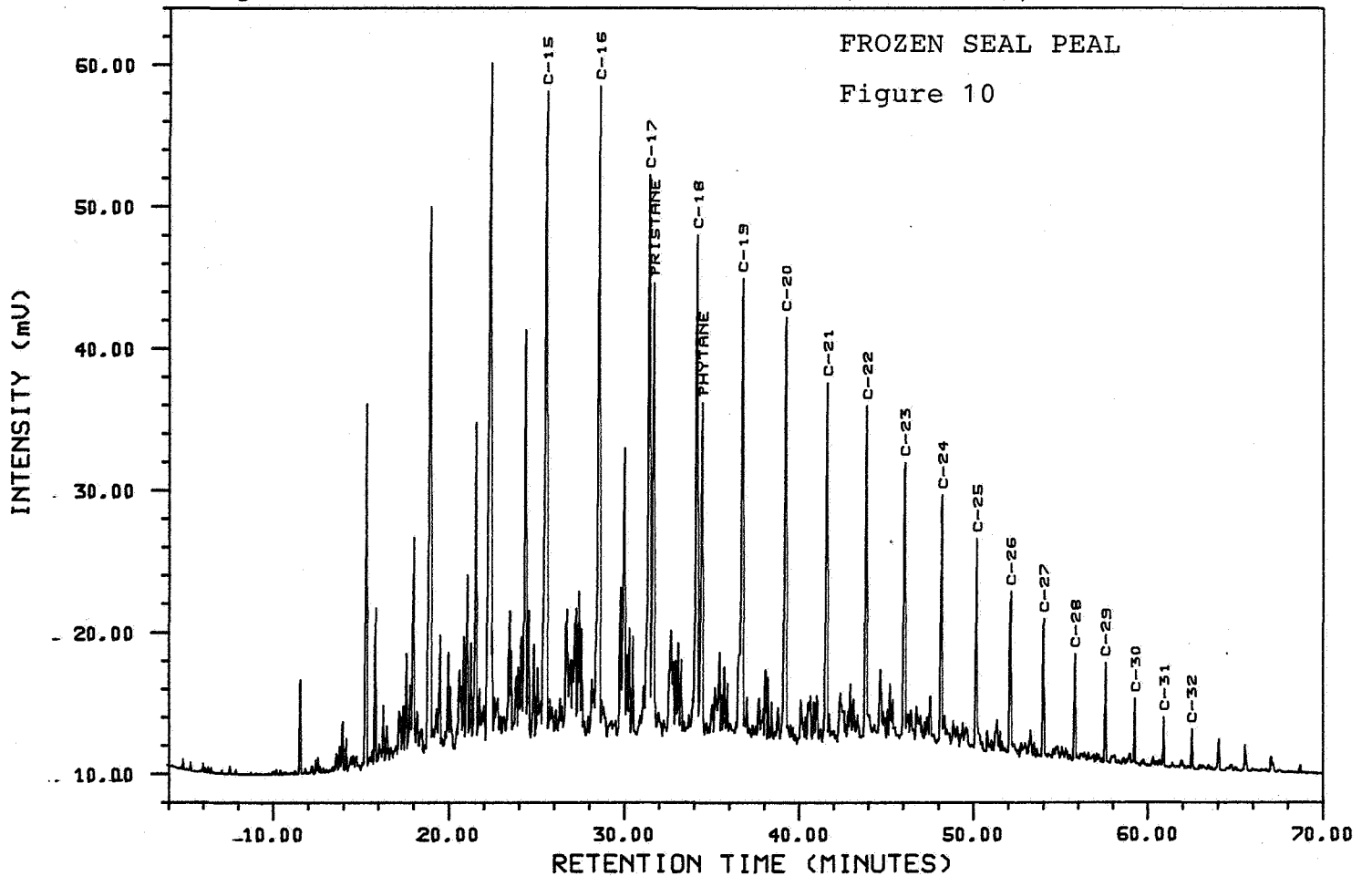
Analysis S346

4,1,1 6406/3-1 (3844.97 m)



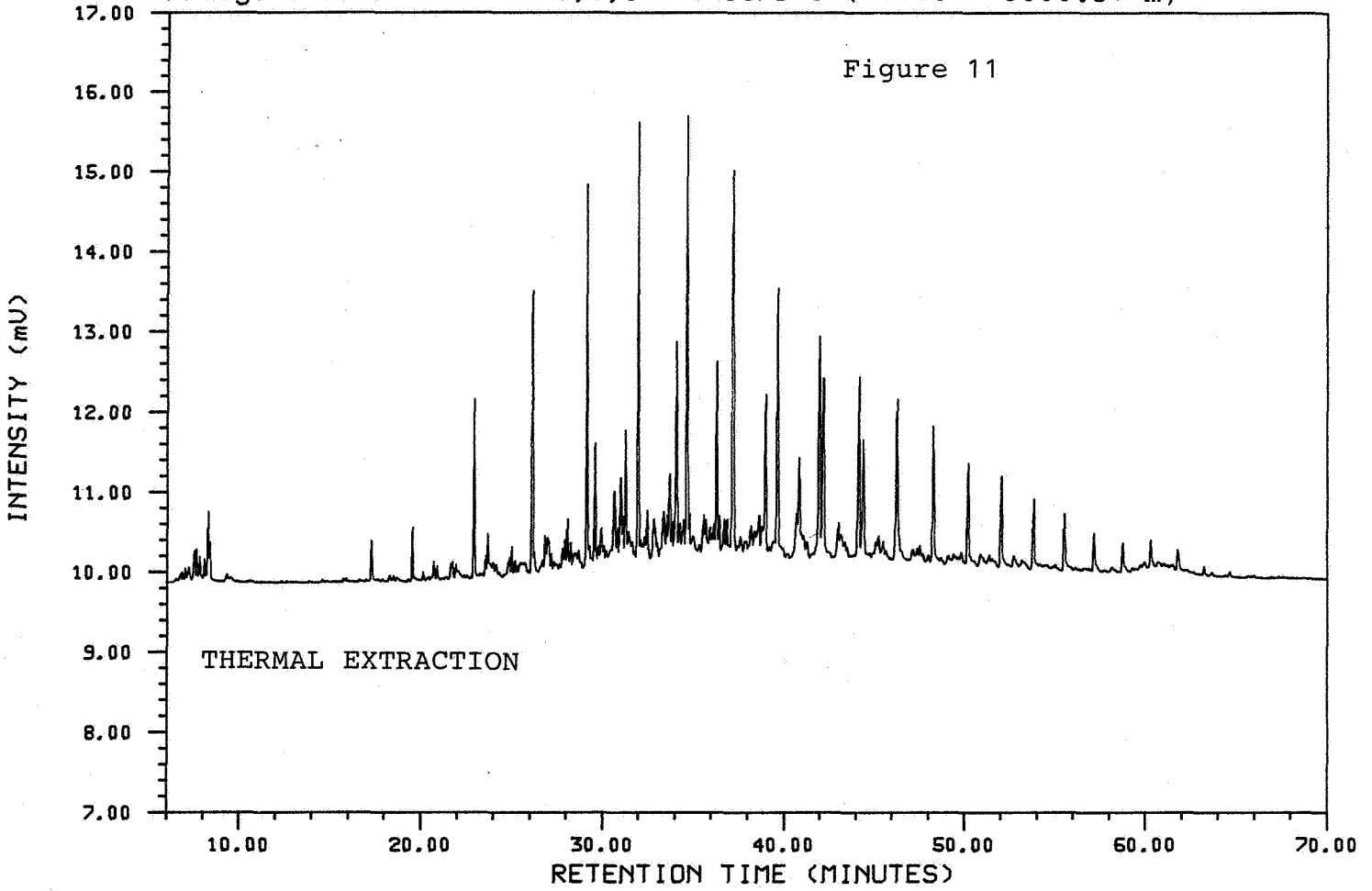
Analysis S347

4,1,1 6406/3-1 (3795.35 m)



Analysis S343

1,1,1 6406/3-1 (3806.16-3806.58 m)



Analysis S345

1,1,1 6406/3-1 (3783.91-3784.21 m)

