

I

		20%		35%
15%		30%		

II

UV IR MS NMR

III

1.

2. 180

3. 150

4.

A B X 30%

40%

15%

/ 15%

IV

UV IR MS NMR

1. UV

2.

3.

UV

1. IR

2.

IR

3.

IR

4.

IR

IR

1. ¹HNMR

¹HNMR

2.

¹HNMR

3.

¹HNMR

¹HNMR

1. ¹³CNMR

2.

¹³CNMR

3.

ATP DEPT

4.

¹³CNMR

¹³CNMR

1. MS MS MS
2. MS MS
3. MS
- MS

- 1.
- 2.
- 3.

V

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- 2 2000
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- 4 E.D. Hoffmann V. Stroobant Mass Spectrometry Principles and Applications 2nd ed John Wiley & Sons