

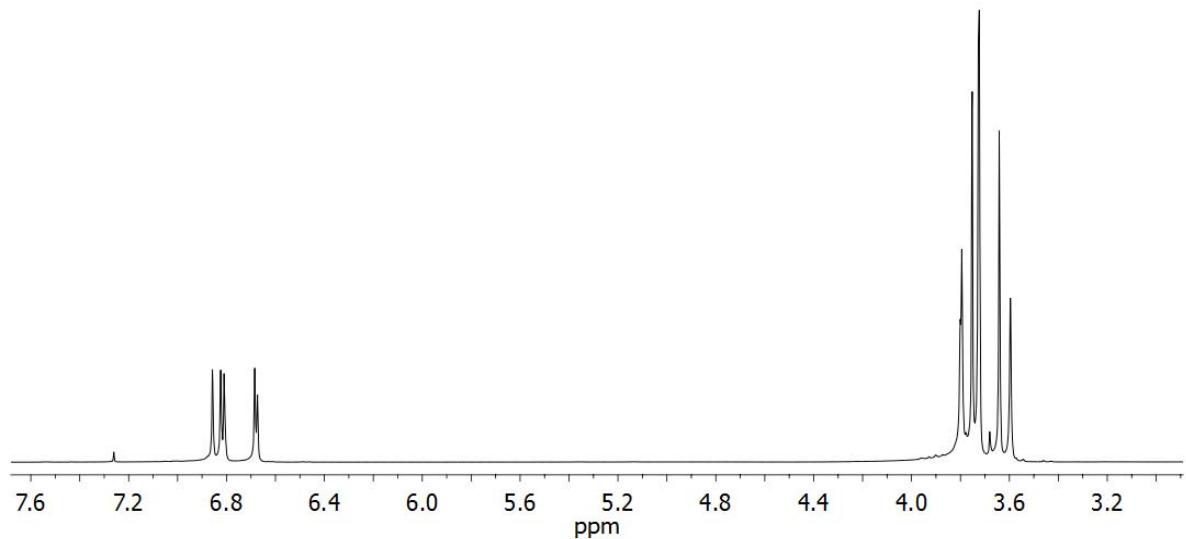
**Selective stepwise oxidation of  
1,4- decamethoxypillar[5]arene.**

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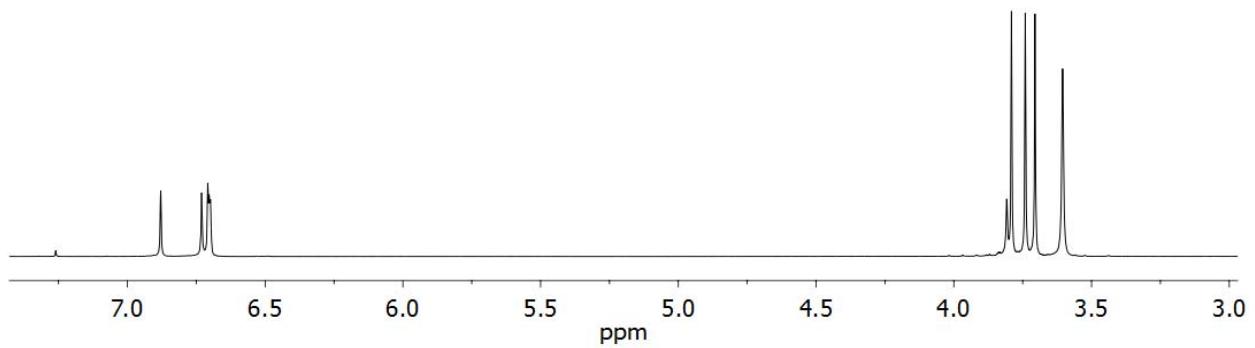
<sup>a</sup>*Kazan (Volga Region) Federal University, A.M. Butlerov Chemical Institute, 420008  
Kremlevskaya, 18, Kazan, Russian Federation*

**Electronic Supplementary Information**

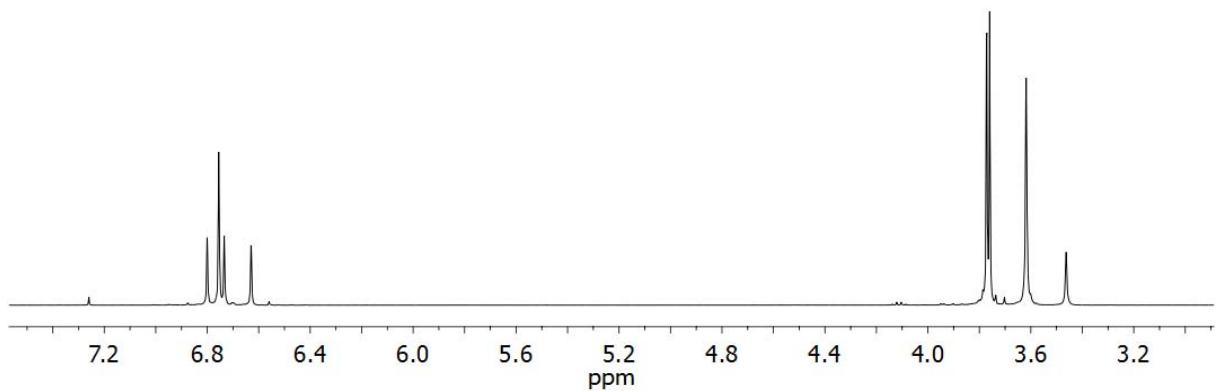
**<sup>1</sup>H NMR spectrum of 14,18,23,26,28,31,32,35-Octamethoxypillar[5]arene-4,8-quinone (3), CDCl<sub>3</sub>, 298 K, 400 MHz**



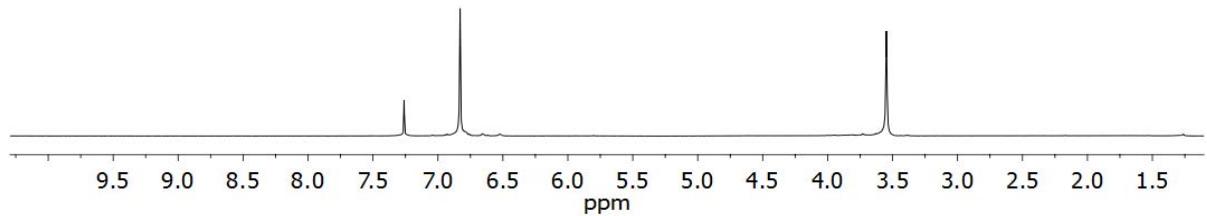
**<sup>1</sup>H NMR spectrum of 14,18,28,31,32,35-Hexamethoxypillar[5]arene-4,8,23,26-quinone (4), CDCl<sub>3</sub>, 298 K, 400 MHz**



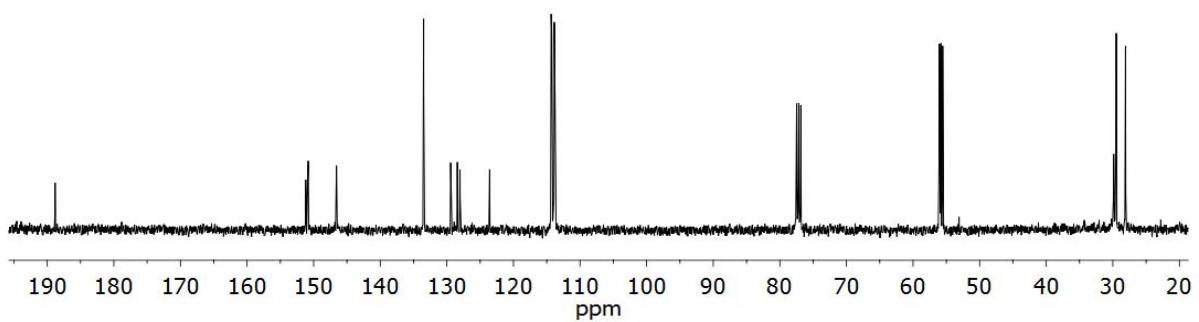
**$^1\text{H}$  NMR spectrum of 14,18,32,35-Tetramethoxypillar[5]arene-4,8,23,26,28,31-quinone (5),  $\text{CDCl}_3$ , 298 K, 400 MHz**



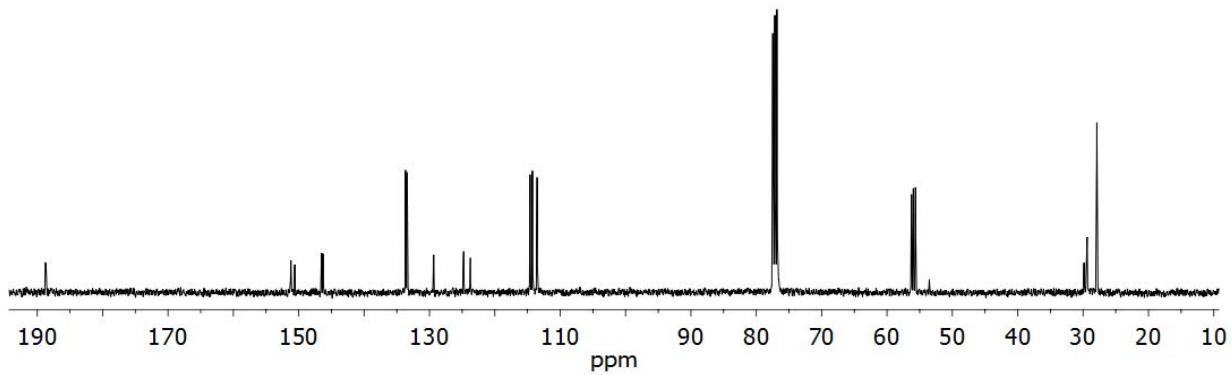
**$^1\text{H}$  NMR spectrum of Pillar[5]arene-4,8,14,18,23,26,28,31,32,35-quinone (6),  $\text{CDCl}_3$ , 298 K, 400 MHz**



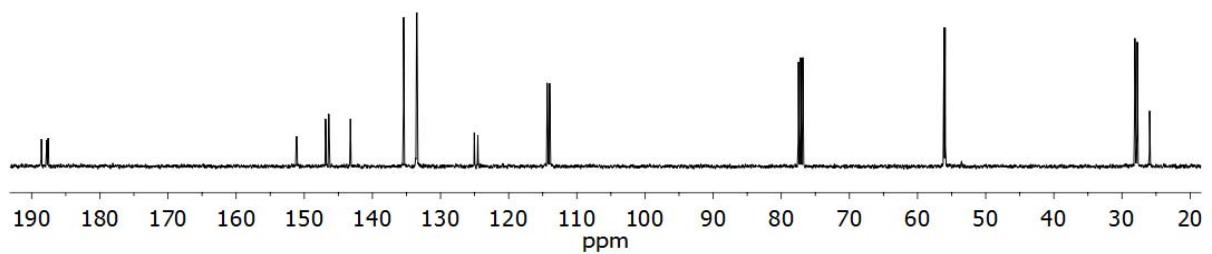
$^{13}\text{C}\{\text{H}\}$  NMR spectrum of 14,18,23,26,28,31,32,35-Octamethoxypillar[5]arene-4,8-quinone (3),  $\text{CDCl}_3$ , 298 K, 100 MHz



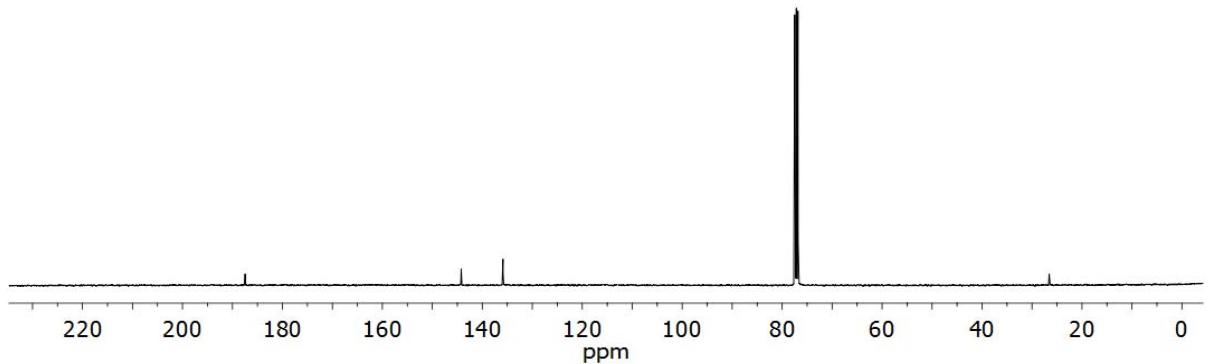
$^{13}\text{C}\{\text{H}\}$  NMR spectrum of 14,18,28,31,32,35-Hexamethoxypillar[5]arene-4,8,23,26-quinone (4),  $\text{CDCl}_3$ , 298 K, 100 MHz



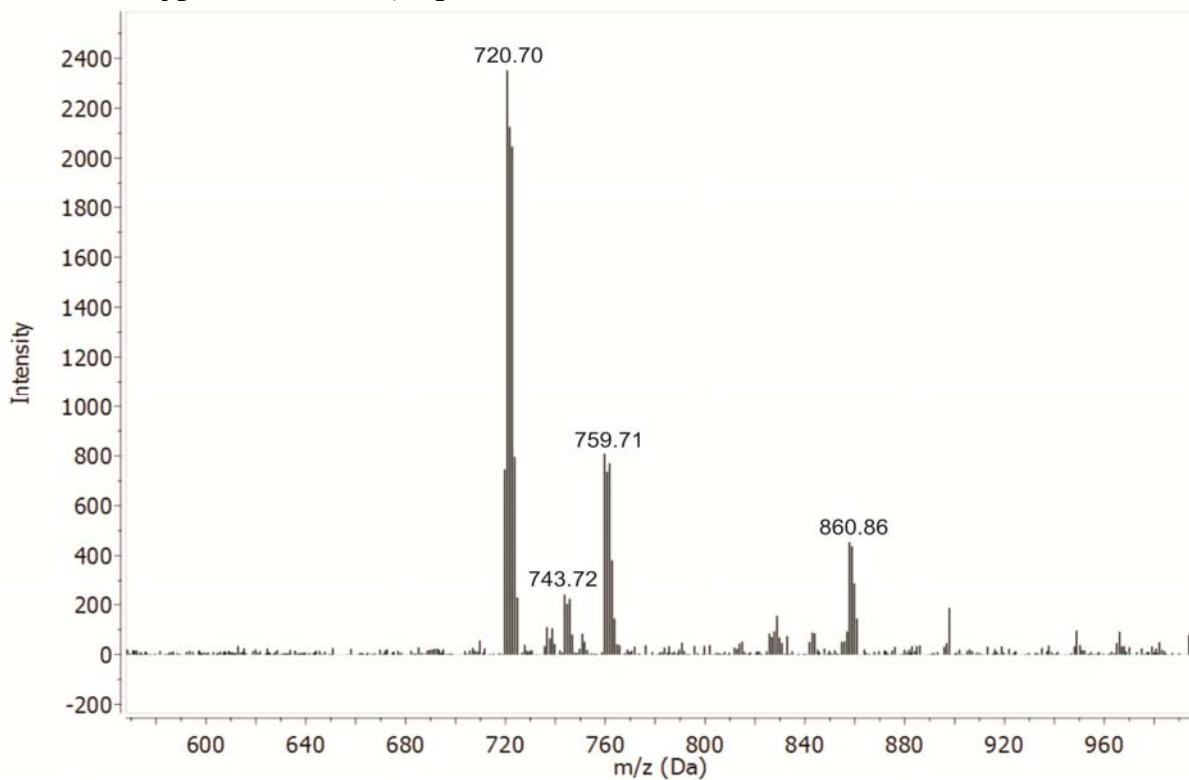
$^{13}\text{C}\{\text{H}\}$  NMR spectrum **14,18,32,35-Tetramethoxypillar[5]arene-4,8,23,26,28,31-quinone (5)**,  $\text{CDCl}_3$ , 298 K, 100 MHz



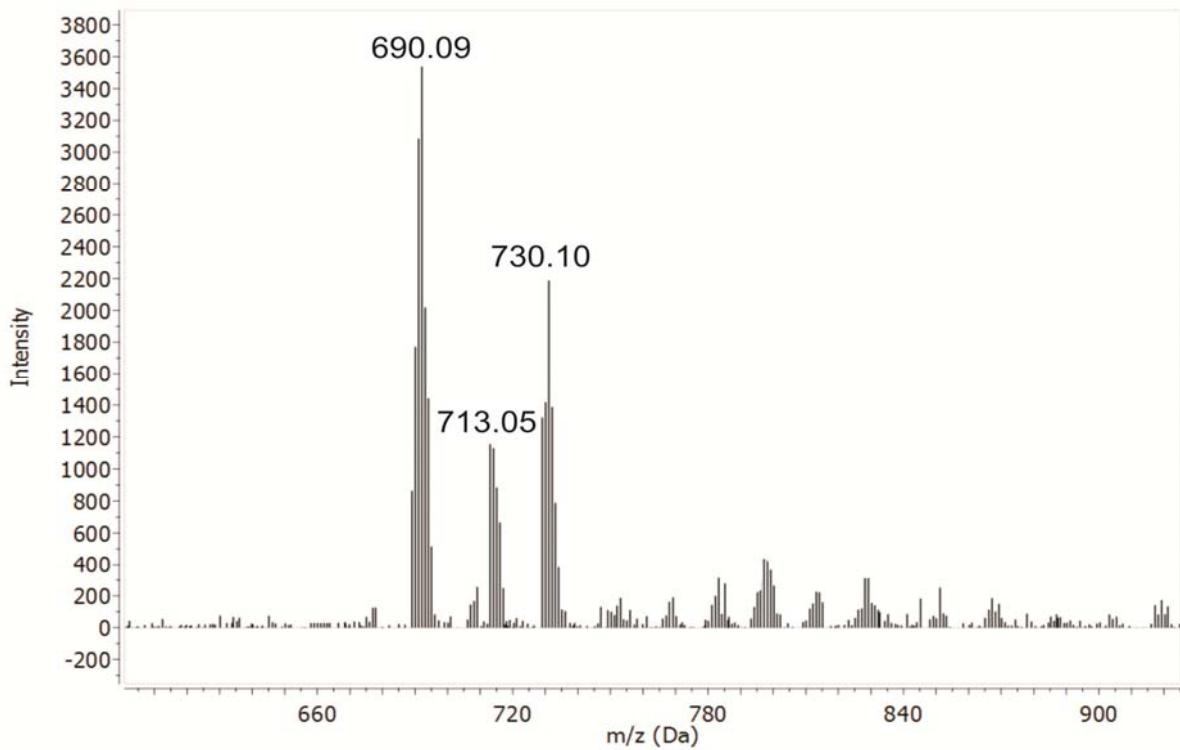
$^{13}\text{C}\{\text{H}\}$  NMR spectrum **Pillar[5]arene-4,8,14,18,23,26,28,31,32,35-quinone (6)**,  $\text{CDCl}_3$ , 298 K, 100 MHz



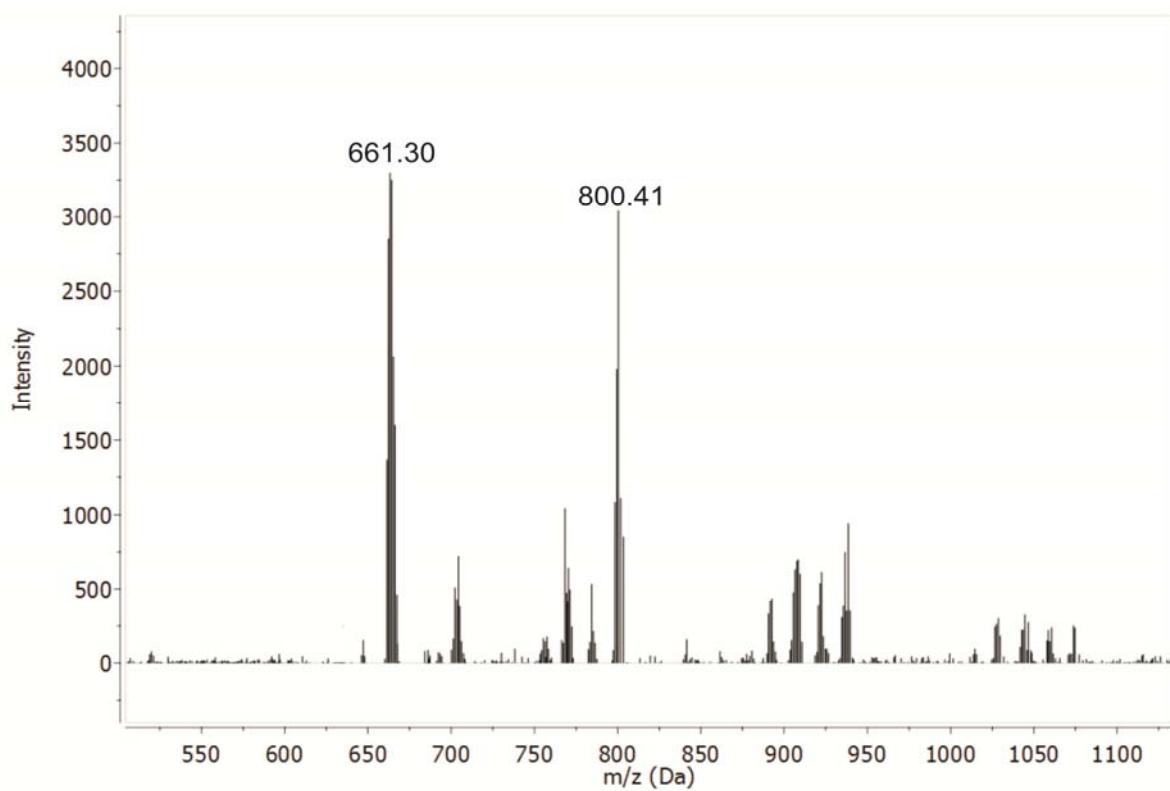
**Mass spectrum (MALDI-TOF, 4-nitroaniline matrix) of 14,18,23,26,28,31,32,35-Octamethoxypillar[5]arene-4,8-quinone (3).**



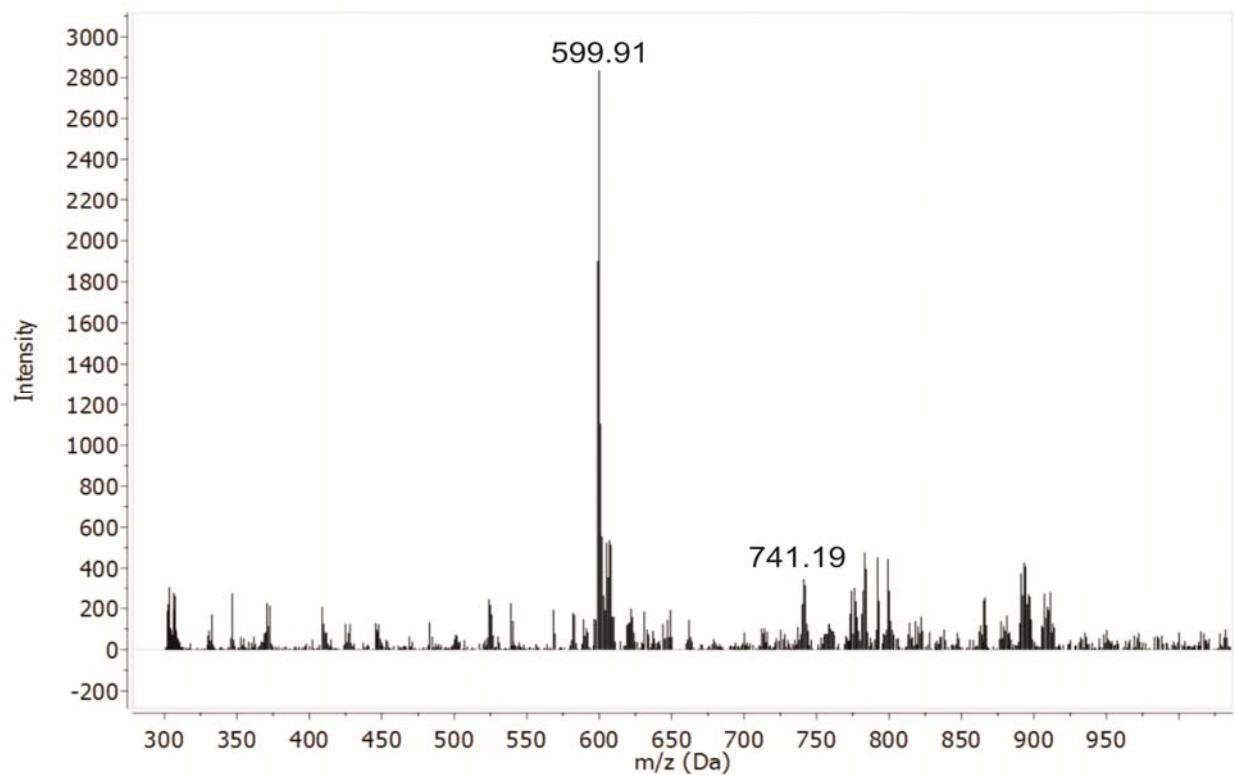
**Mass spectrum (MALDI-TOF, 4-nitroaniline matrix) of 14,18,28,31,32,35-Hexamethoxypillar[5]arene-4,8,23,26-quinone (4).**



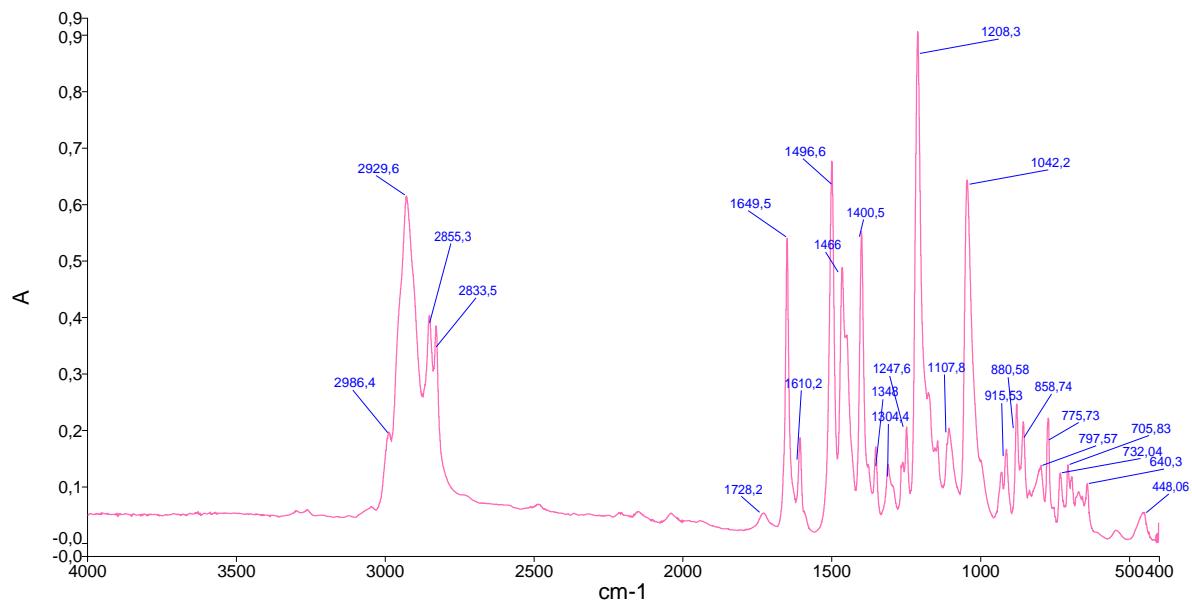
**Mass spectrum (MALDI-TOF, 4-nitroaniline matrix) of 14,18,32,35-Tetramethoxypillar[5]arene-4,8,23,26,28,31-quinone (5).**



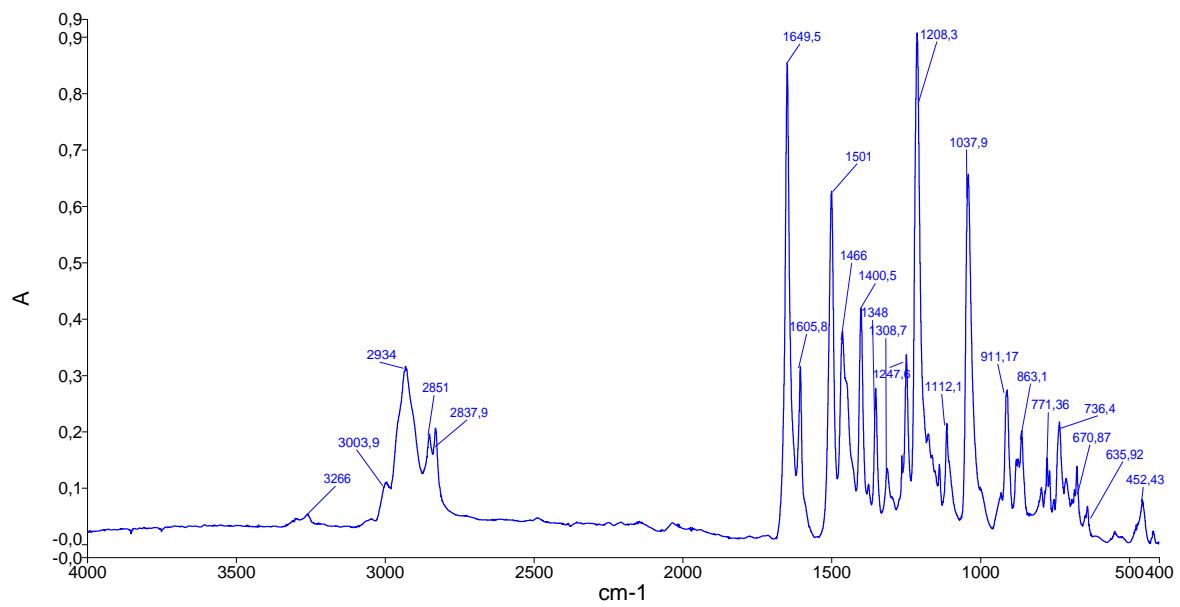
**Mass spectrum (MALDI-TOF, 4-nitroaniline matrix) of Pillar[5]arene-4,8,14,18,23,26,28,31,32,35-quinone (6).**



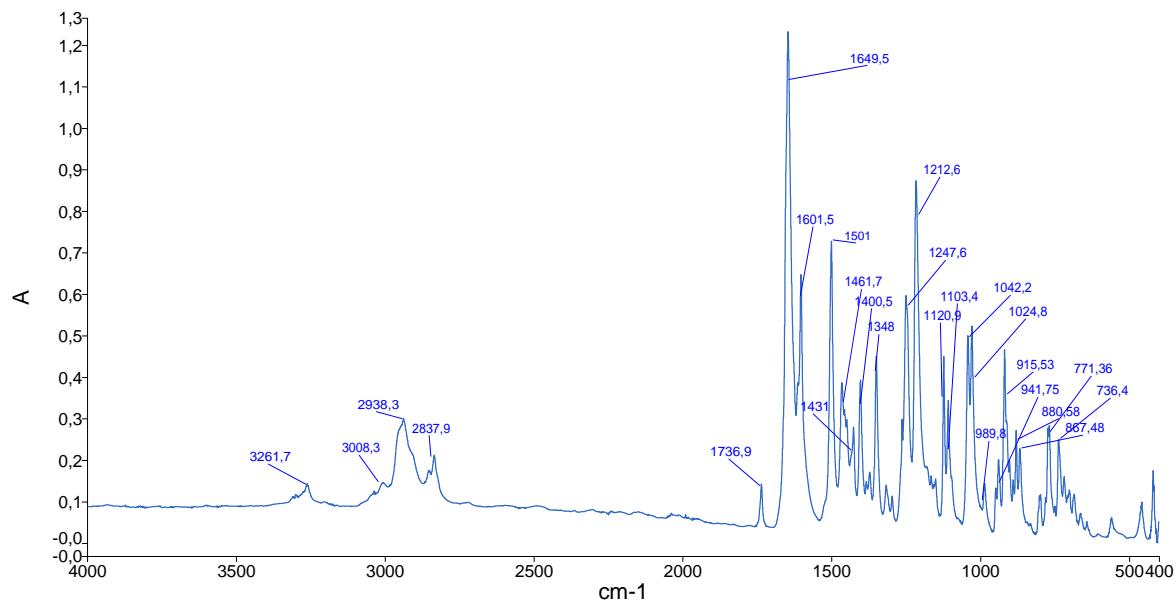
**IR spectrum of 14,18,23,26,28,31,32,35-Octamethoxypillar[5]arene-4,8-quinone (3).**



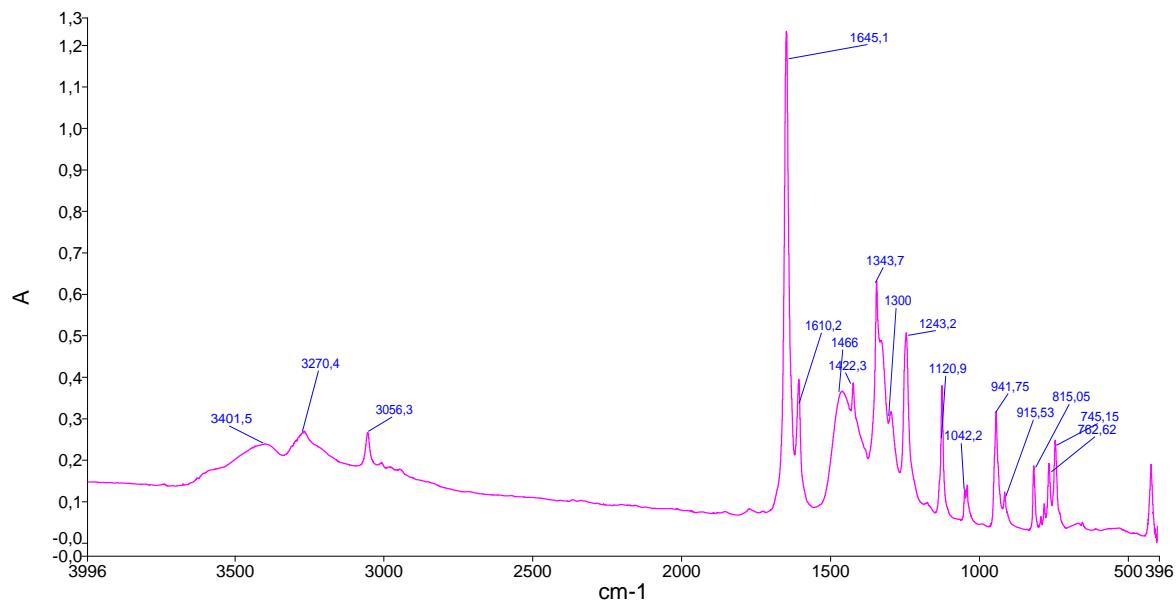
**IR spectrum of 14,18,28,31,32,35-Hexamethoxypillar[5]arene-4,8,23,26-quinone (4).**



**IR spectrum of 14,18,32,35-Tetramethoxypillar[5]arene-4,8,23,26,28,31-quinone (5).**



**IR spectrum of Pillar[5]arene-4,8,14,18,23,26,28,31,32,35-quinone (6).**



## IR spectrum of Decamethoxypillar[5]arene (**1**).

