**Supporting Information**

**Magnetic functionalized graphene: An efficient and solid acid catalyst for the synthesis of highly functionalized pyrroles under ultrasound irradiation**

Sodeh Sadjadi \*

Radiation Application Research School, Nuclear Science and Technology Research Institute, Tehran, Iran, P. O. Box: 14399-51113.

\*Corresponding author’s email: [sadjadi.s.s@gmail.com](mailto:sadjadi.s.s@gmail.com)

***Figure S1.*** *The XRD pattern of rGO-hydroxamic acid/Fe3O4 catalyst.*

***Figure S2.*** *The FTIR spectrum of rGO-hydroxamic acid/Fe3O4 catalyst.*

***Table S1.*** *The quantitative results of EDS analysis.*

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| --- | --- | --- |
| **Element** | **Weight %** | **Atomic %** |
| C | 29.56 | 45.83 |
| N | 7.71 | 10.25 |
| O | 27.69 | 32.23 |
| Fe | 35.04 | 11.68 |