

## Valorization of Bambara groundnut shell via intermediate pyrolysis: Products distribution and characterization

MOHAMMED, Isah Yakub, ABAKR, Yousif Abdalla, MUSA, Mukhtar, YUSUP, Suzana, SINGH, Ajit and KABIR, Feroz <a href="http://orcid.org/0000-0002-3121-9086">http://orcid.org/0000-0002-3121-9086</a>

Available from Sheffield Hallam University Research Archive (SHURA) at: http://shura.shu.ac.uk/13402/

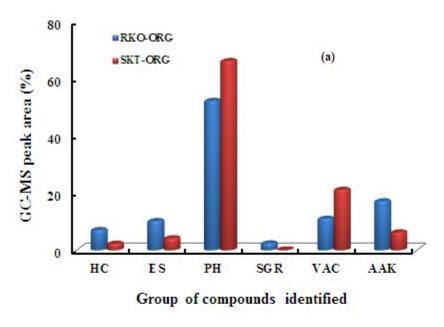
This document is the author deposited version. You are advised to consult the publisher's version if you wish to cite from it.

## **Published version**

MOHAMMED, Isah Yakub, ABAKR, Yousif Abdalla, MUSA, Mukhtar, YUSUP, Suzana, SINGH, Ajit and KABIR, Feroz (2016). Valorization of Bambara groundnut shell via intermediate pyrolysis: Products distribution and characterization. Journal of Cleaner Production, 139, 717-728.

## Copyright and re-use policy

See <a href="http://shura.shu.ac.uk/information.html">http://shura.shu.ac.uk/information.html</a>



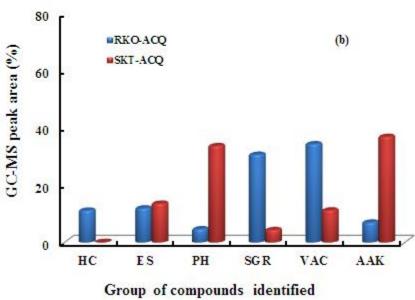


Fig. 6: Group of compounds in the bio-oil (a) organic phase; (b) aqueous phase