

Electronic Supplementary Information

Ultrasonic chemical oxidative degradations of 1,3-dialkylimidazolium ionic liquids and their mechanistic elucidations

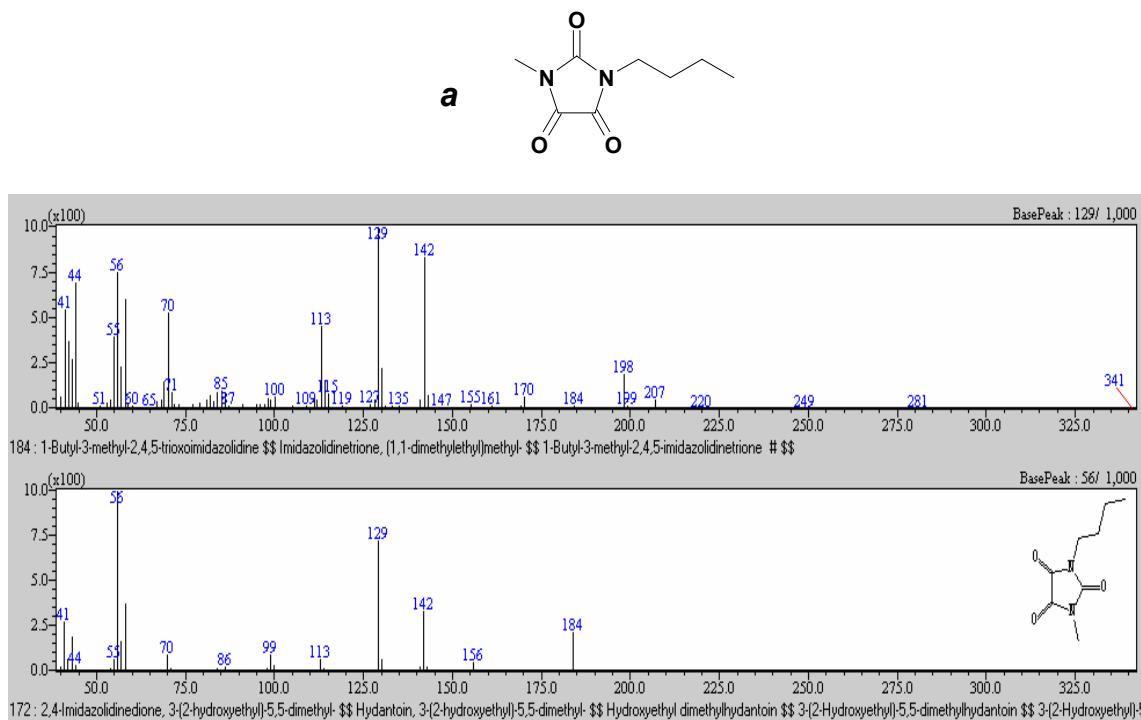
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Electronic Supplementary Data

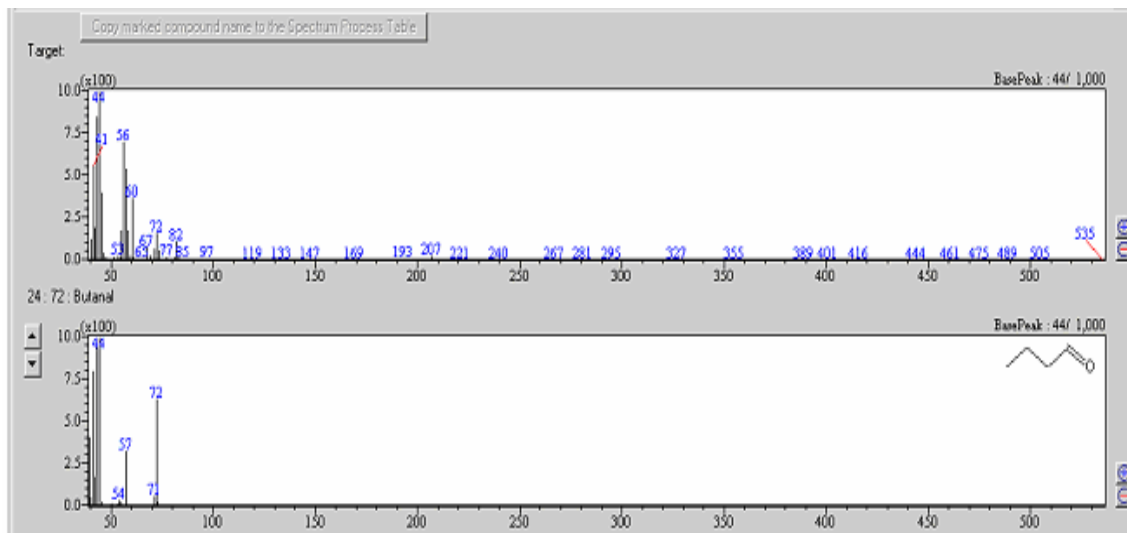
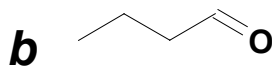
1. Typical intermediates structure identifications by MS



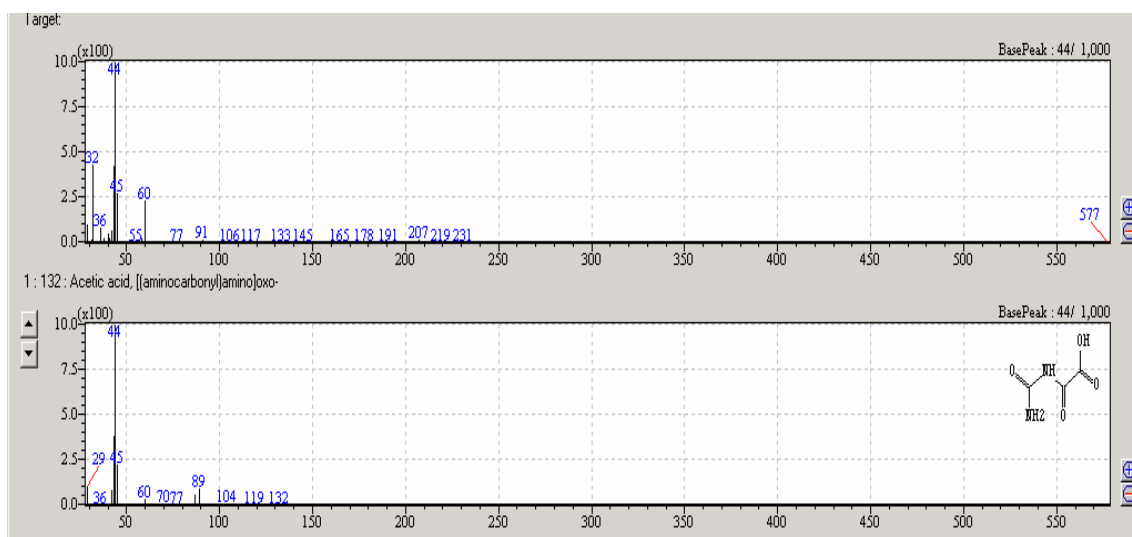
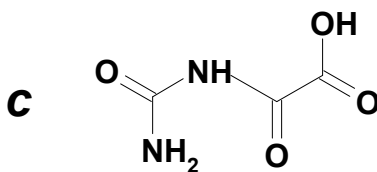
Scheme S1 Compound **a** identified by GC-MS and its structure

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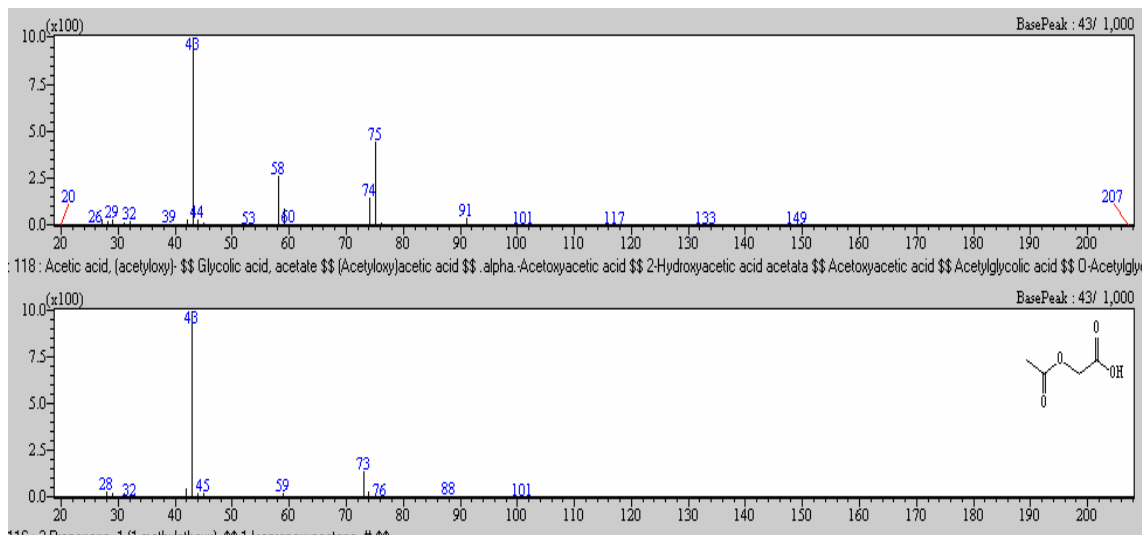
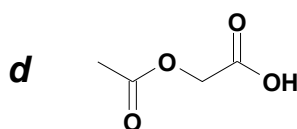
^b Surface and Catalysis Research Centre, School of Chemistry, University of Reading, Whiteknights, Reading, RG6 6AD, U.K., Fax: 0044 118 378 6632; Tel: 0044 118 378 6346; E-mail: s.c.e.tsang@reading.ac.uk



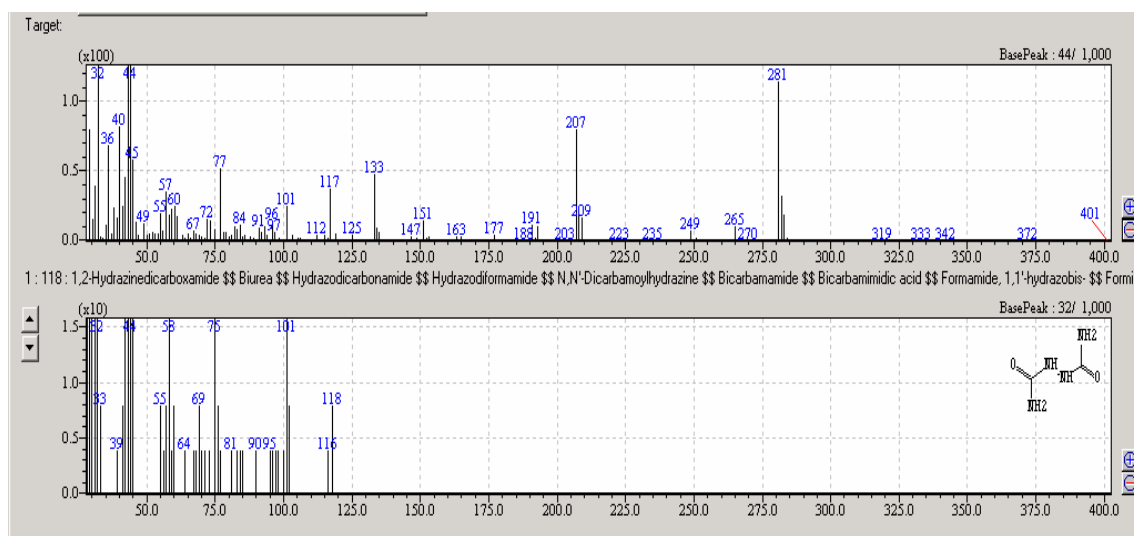
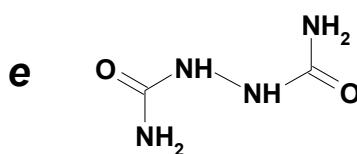
Scheme S2 Compound **b** identified by GC-MS and its structure



Scheme S3 Compound **c** identified by GC-MS and its structure



Scheme S4 Compound **d** identified by GC-MS and its structure



Scheme S5 Compound **e** identified by GC-MS and its structure

2. Intermediates concentration change during degradation

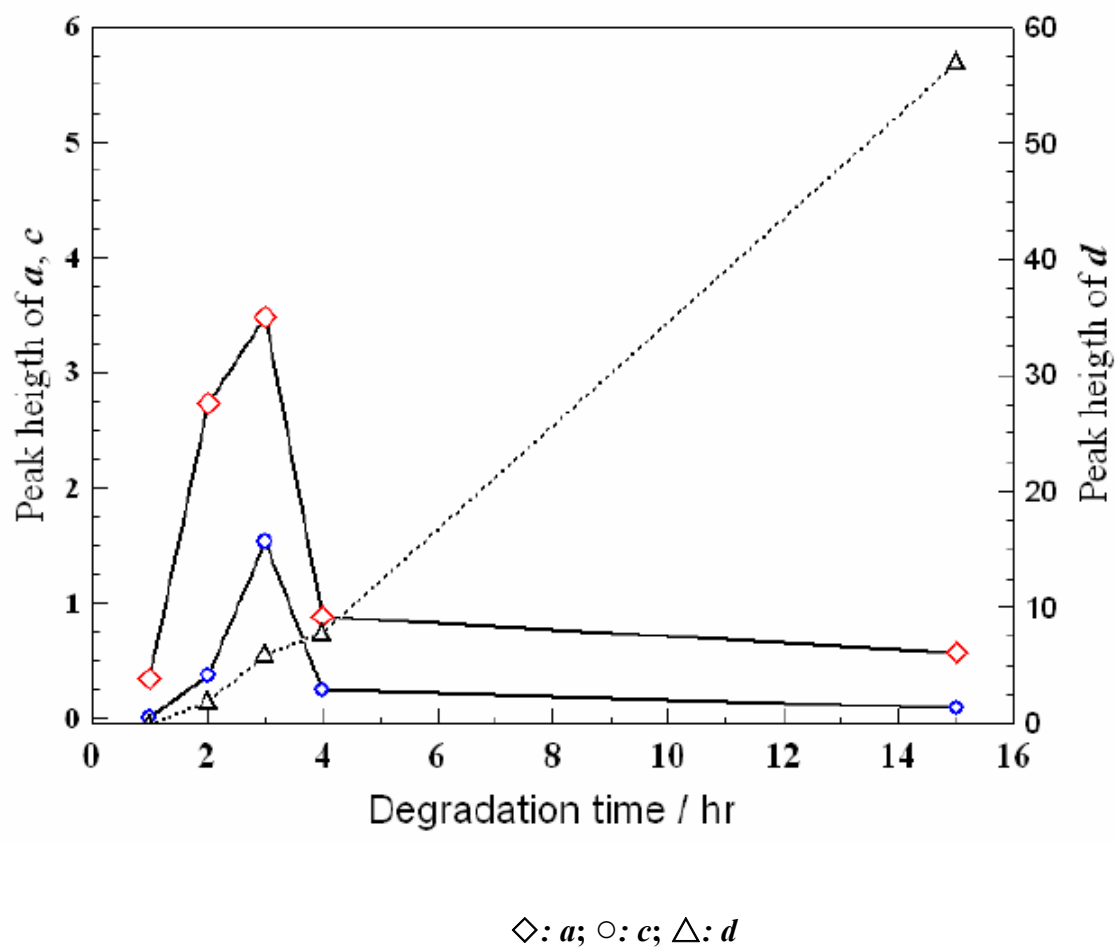


Figure S1 the concentration of intermediates *a*, *c* and *d* varied with degradation time