

FIGURE CAPTIONS

Figure 1. Schematic of microwave pyrolysis rig

Figure 2. Elemental analysis of native and residue *L. digitata*

Figure 3. a) Dielectric properties (Loss Tangent) and b) TGA (solid line) / DTG (dotted line) of native and residue *L. digitata* as a function of temperature.

Figure 4. a) Incident, b) absorbed and c) reflected power profile during pyrolysis of native and residue *L. digitata* at average set incident power of 180 W

Figure 5. a) Mass loss and b) bio- oil yield of native *L. digitata* at different incident powers

Figure 6. a) Native *L. digitata* pellet and pyrolysed *L. digitata* pellets at specific energies b) 0.6 kJ g^{-1} c) 0.9 kJ g^{-1} d) 2.7 kJ g^{-1}

Figure 7. a) Mass loss and b) bio- oil yield of native *L. digitata* and residue *L. digitata* at 180 W incident power

Figure 8. a) Residue *L. digitata* pellet and pyrolysed residue *L. digitata* pellets at specific energies b) 0.76 kJ g^{-1} c) 1.3 kJ g^{-1} d) 2.8 kJ g^{-1}

Figure 9. Energy yields of native *L. digitata* and residue *L. digitata* bio-chars against specific energy

Figure 1

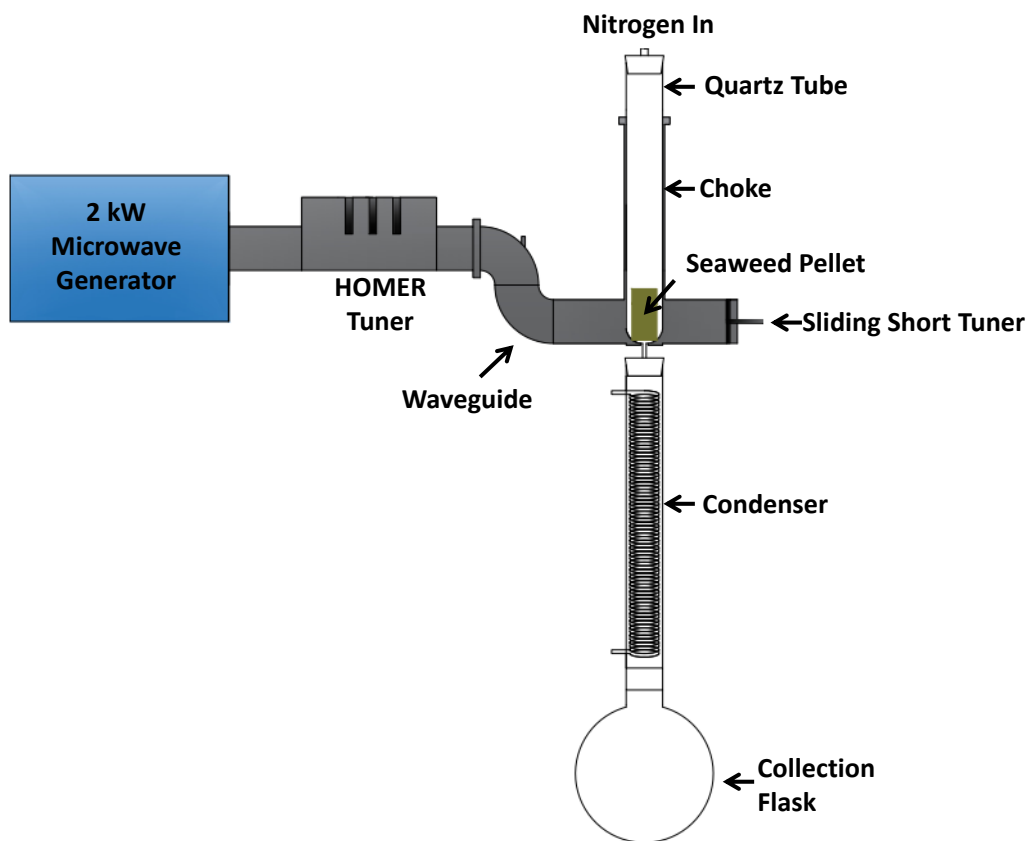


Figure 2

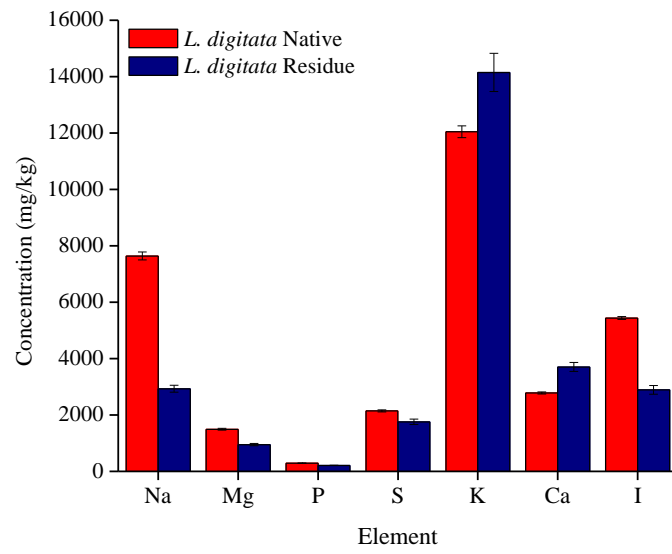


Figure 3

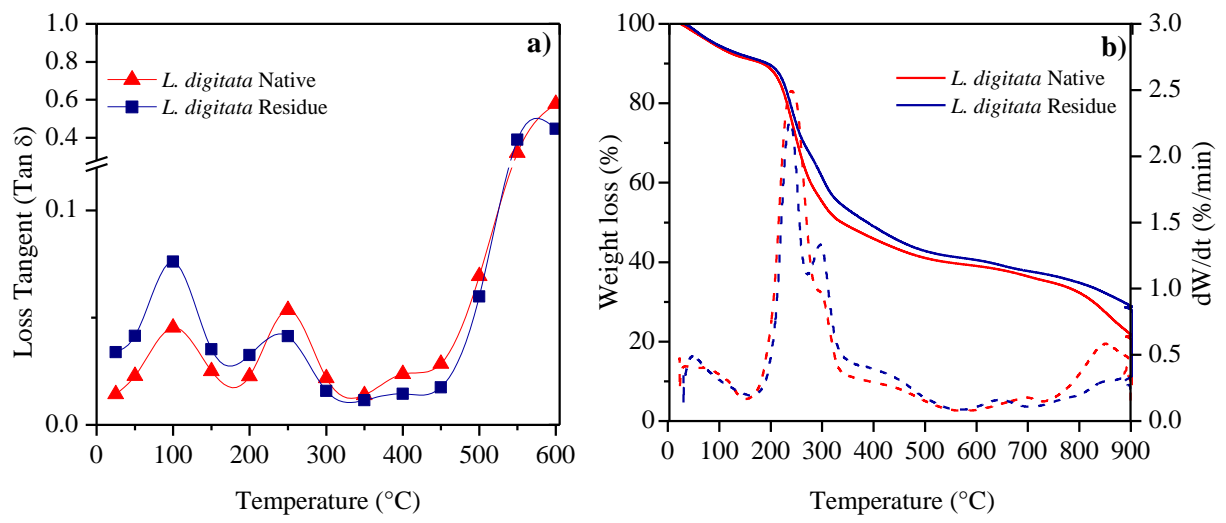


Figure 4

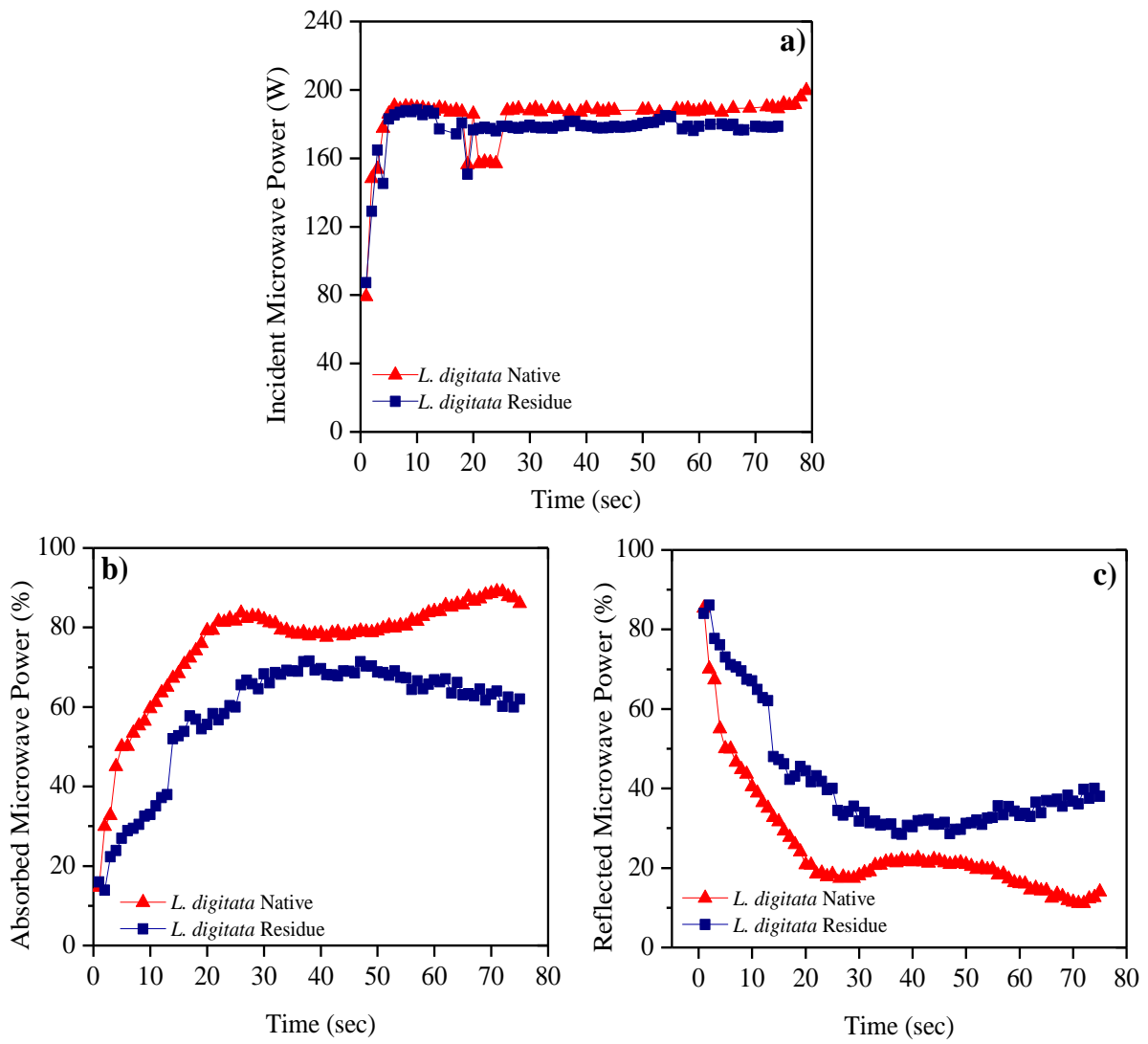


Figure 5

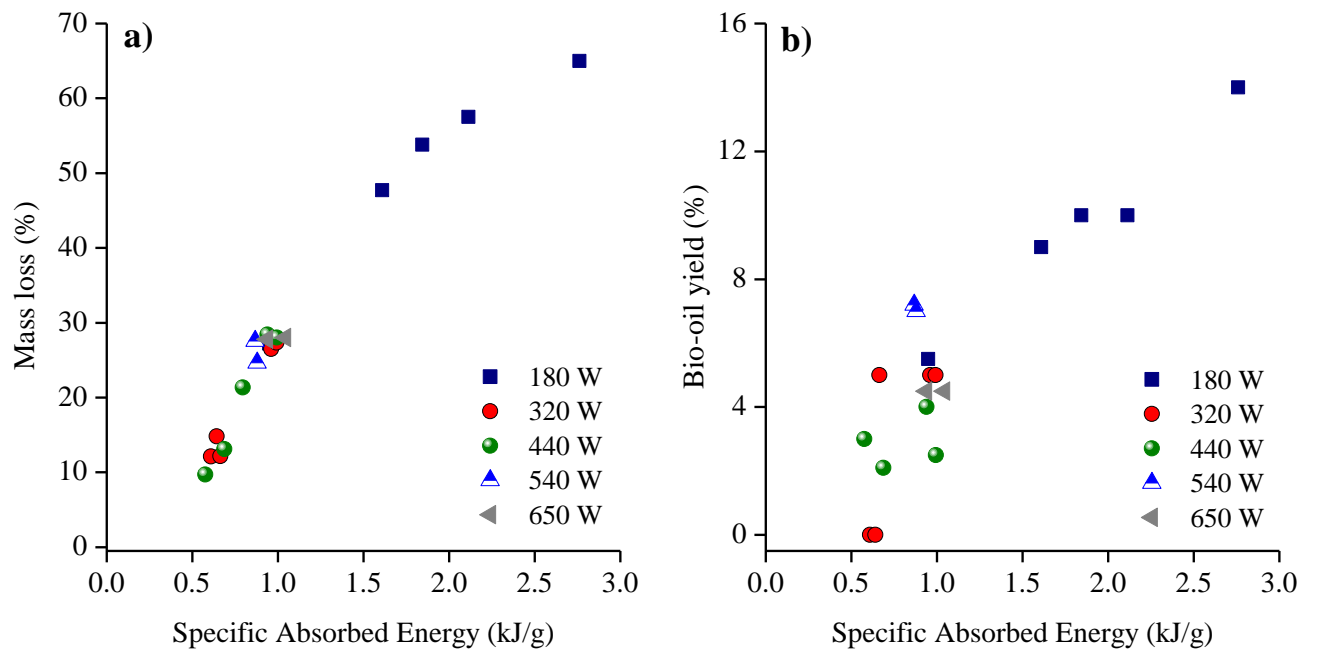


Figure 6

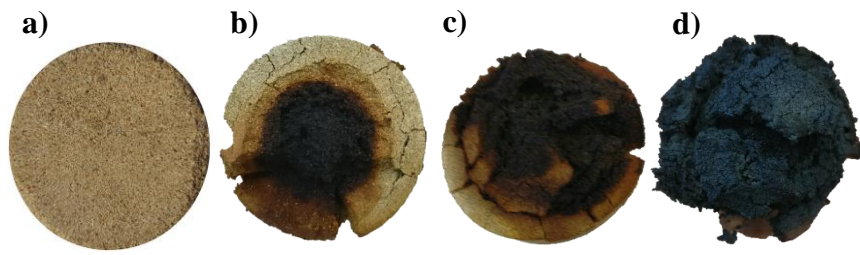


Figure 7

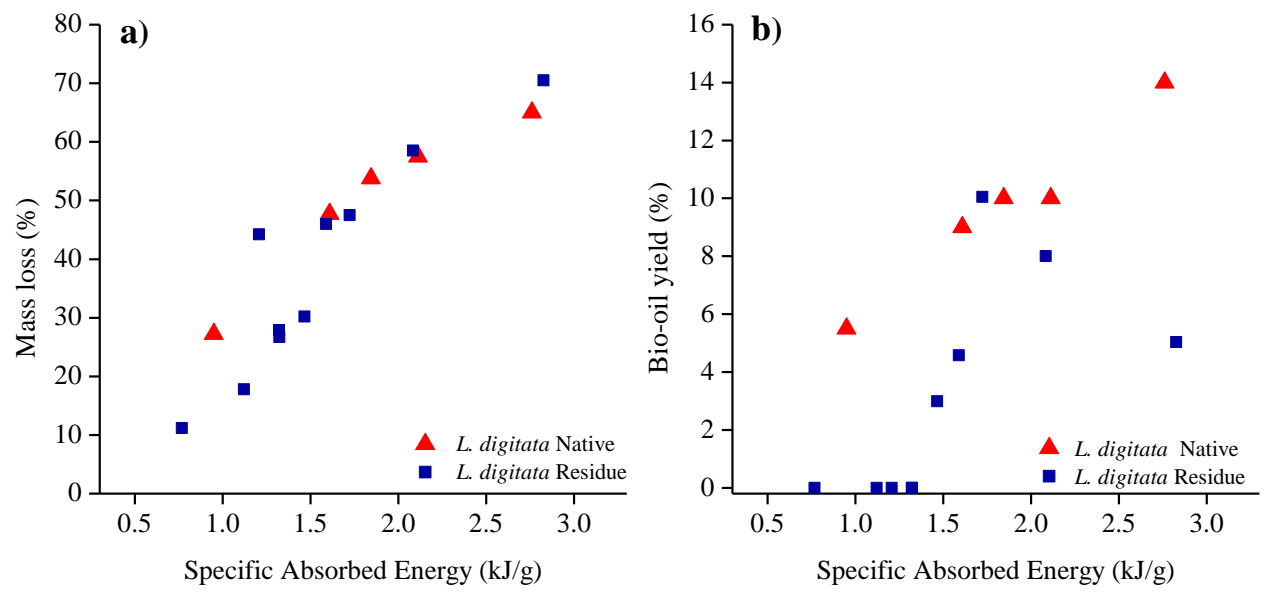


Figure 8

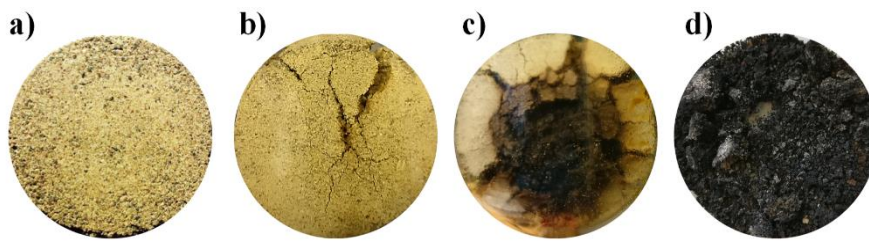


Figure 9

