Analysis of fuel alternative products obtained by the pyrolysis of diverse types of plastic materials isolated from a dumpsite origin in Pakistan

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Supplementary Materials

Figure S1. Feedstocks from dumpsites in the study.

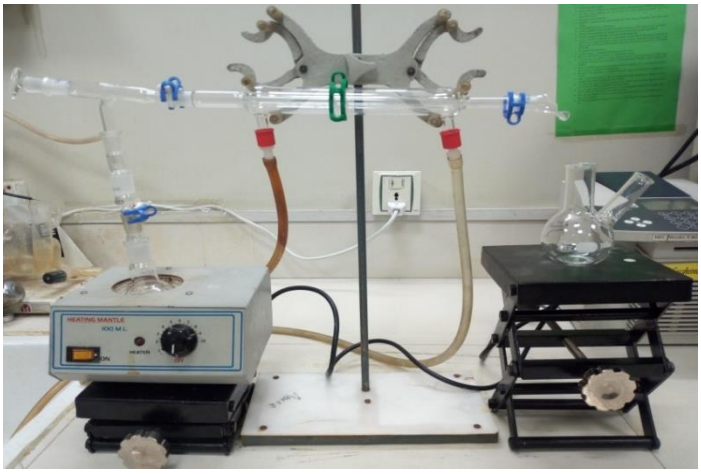


Figure S2. Preliminary pilot study setup.

Figure S3. Pyrolysis fuel emerging from the reactor.

Figure S4. Pyrolysis fuels produced from the reactor.

(a)

(b)

(c)

(d)

(e)

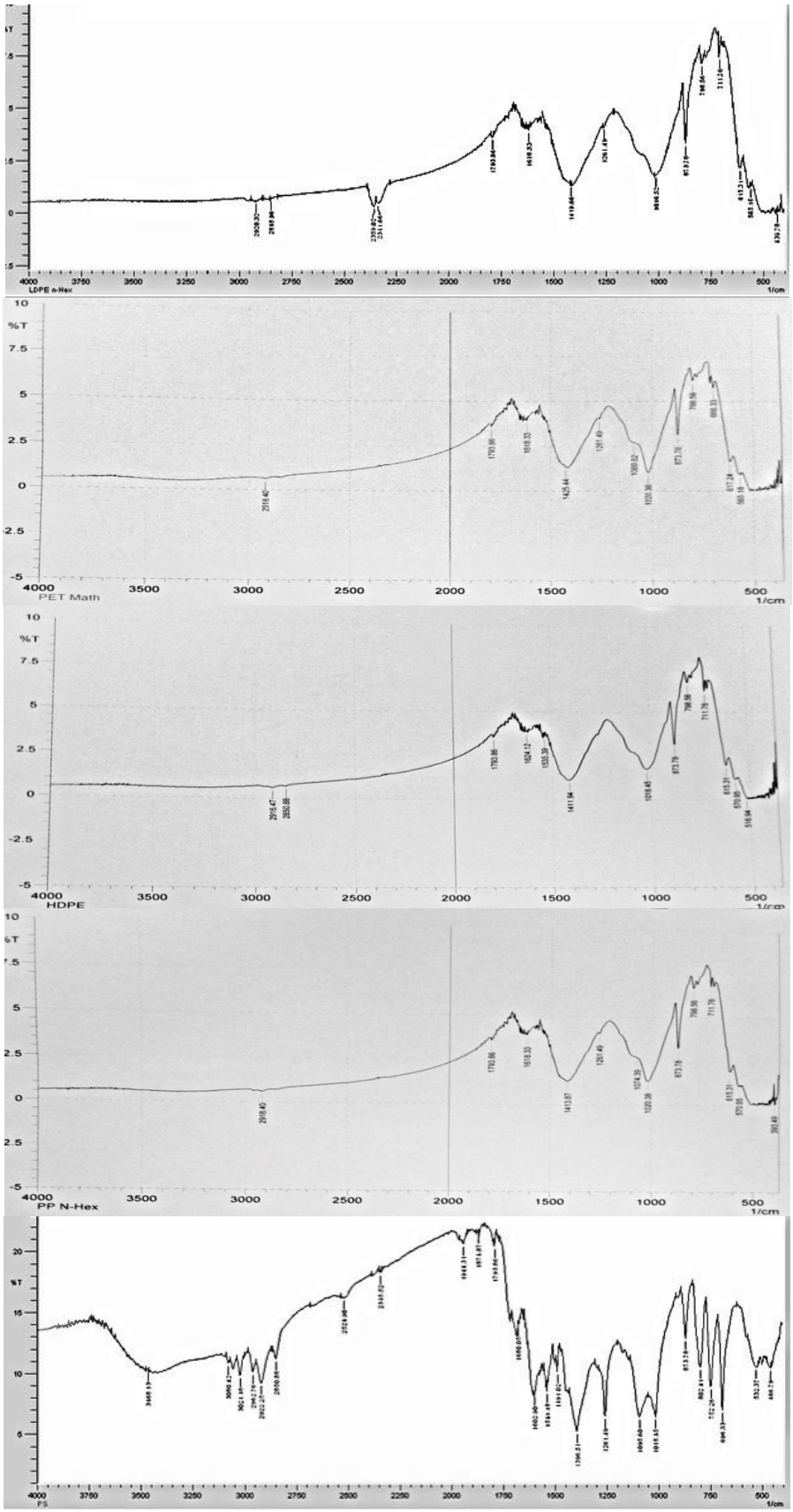
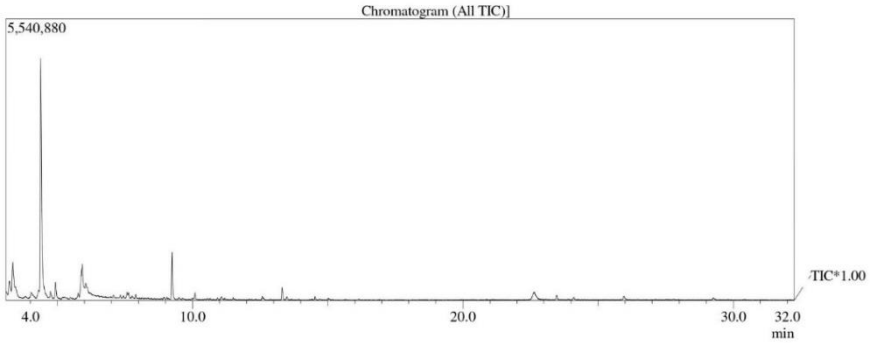
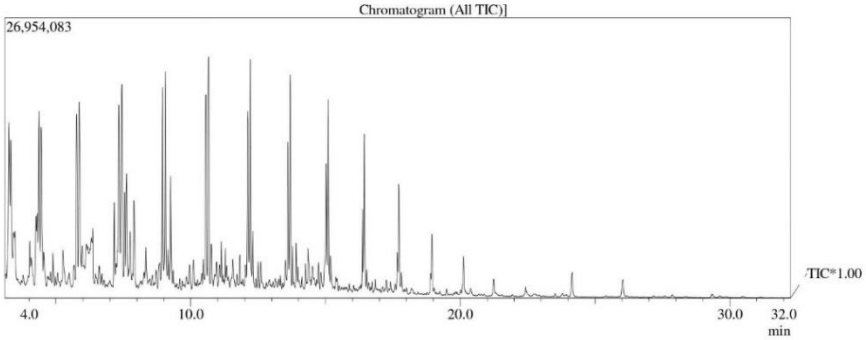


Figure S5. FT-IR spectra of plastic-derived fuels by plastic type. **(a)** PET-derived fuel; **(b)** HDPE-derived fuel; (c) LDPE-derived fuel; (d) PP-derived fuel; (e) PS-derived fuel.

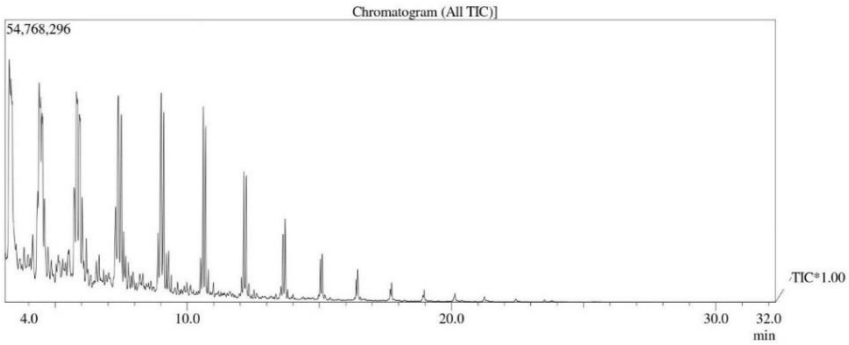
(a)



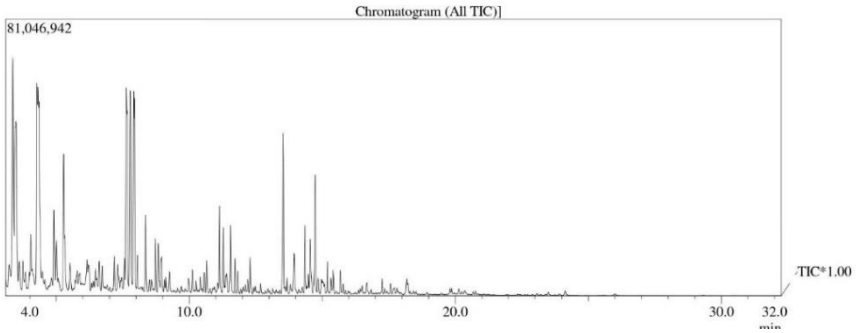
(b)



(c)



(d)



(e)

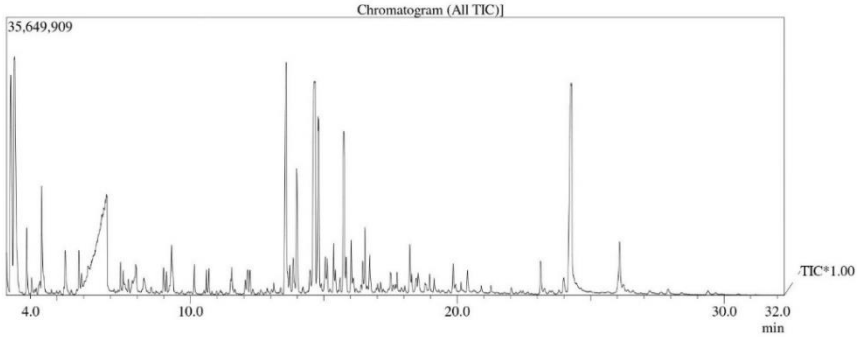


Figure S6. GC-MS spectra of plastic-derived fuels by plastic type. **(a)** PET-derived fuel; **(b)** HDPE-derived fuel; (c) LDPE-derived fuel; (d) PP-derived fuel; (e) PS-derived fuel.