

Applying linear forms of pseudo-second-order kinetic model for= **feasibly identifying errors in the initial periods of time-** **dependent adsorption datasets**

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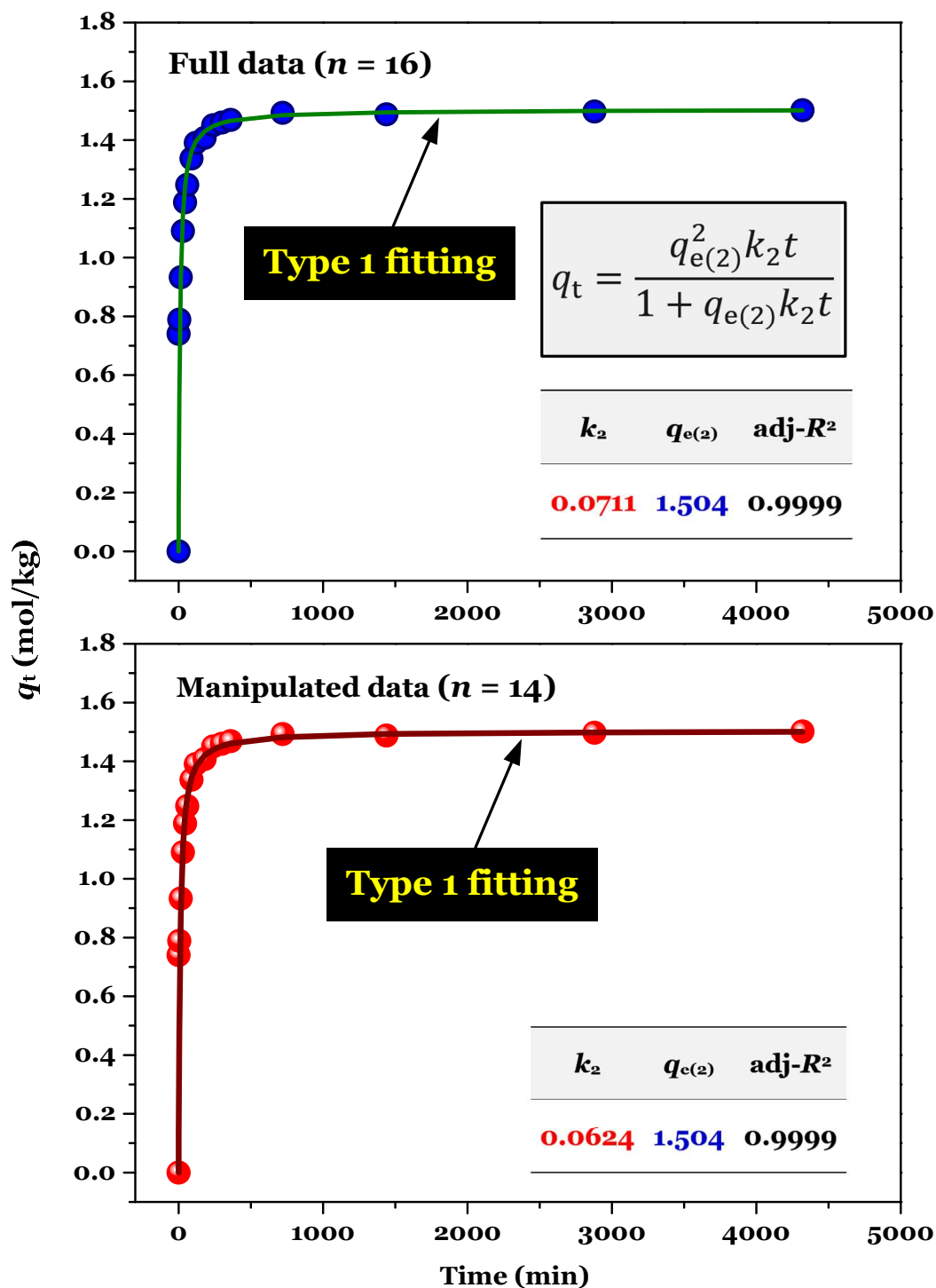


Figure S1. Physical fitting lines of the experimental data of kinetic adsorption by the linear form (Type 1) of the PSO model

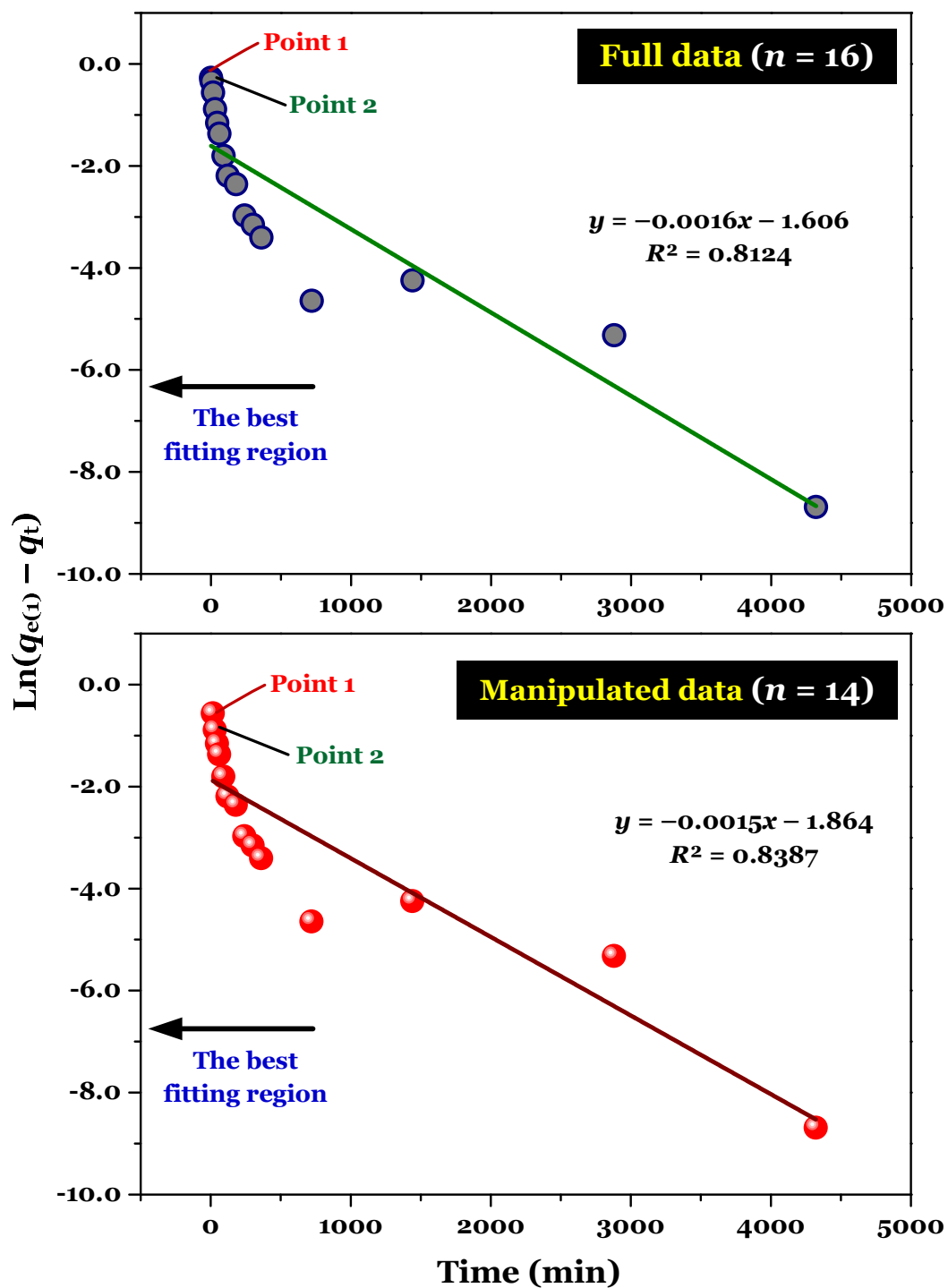


Figure S2. The linear plot of PFO model obtained by considering the full data ($n = 16$) and the manipulated data ($n = 14$)

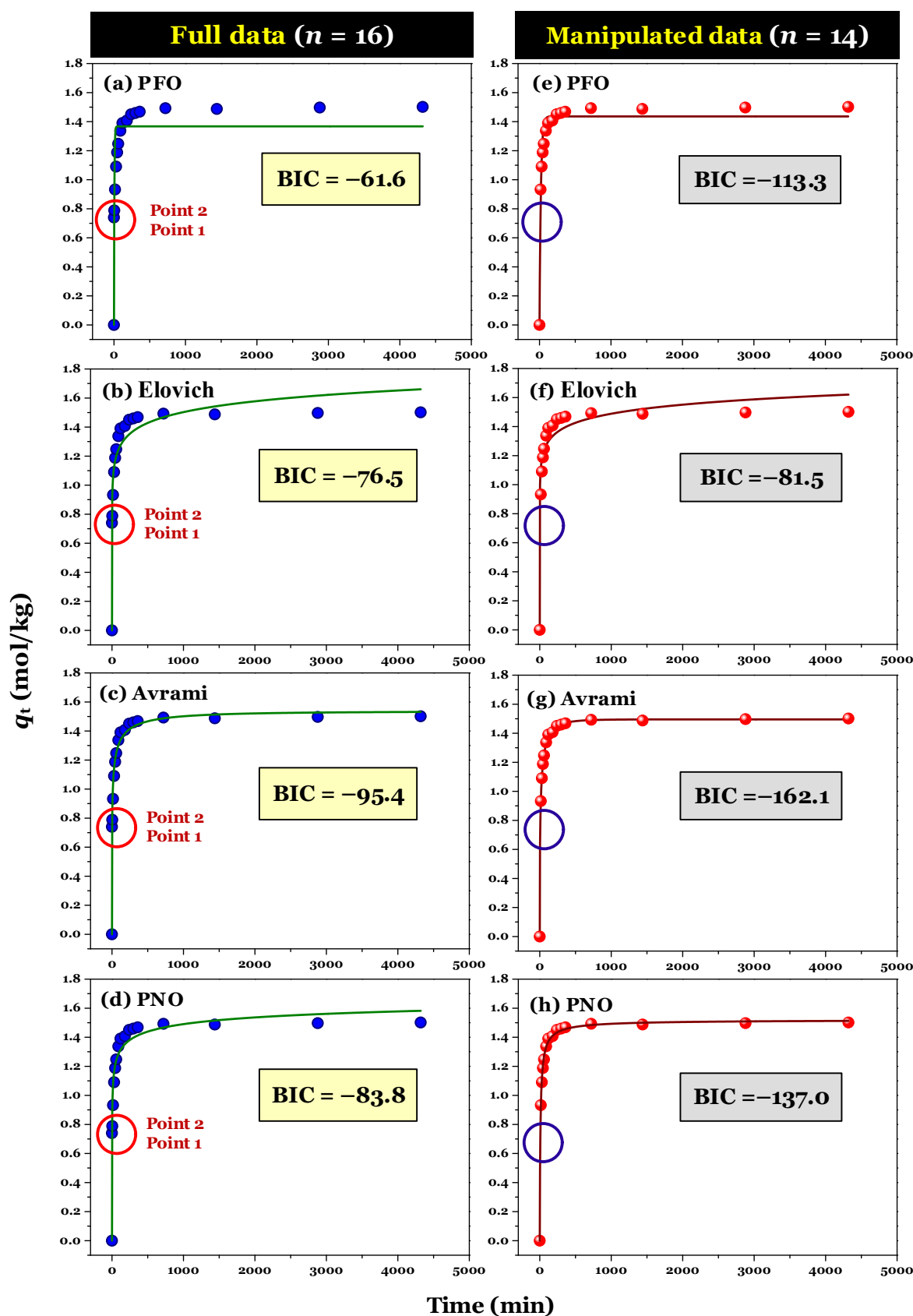


Figure S3. Adsorption kinetic of paracetamol by commercial activated carbon fitted by various adsorption kinetic models: (a)–(d) full data and (e)–(h) manipulated data (after removing Points 1 and 2)

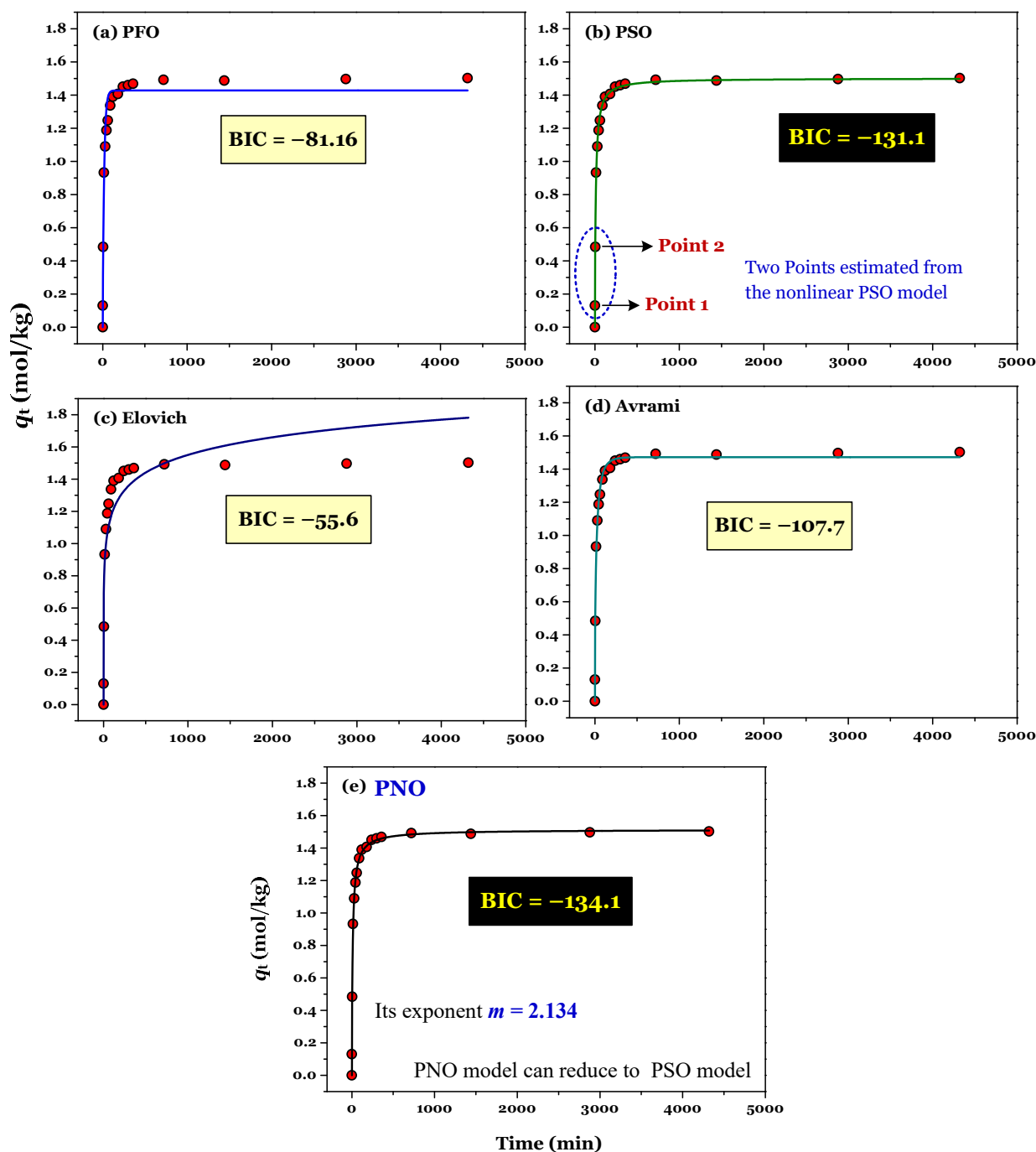


Figure S4. Re-modelling adsorption kinetics after submitting the Point 1 ($q_t = 0.131$ mol/kg) and Point 2 (0.484 mol/kg) estimated from the PSO model to the datasets (Note: the modelling results for the case of the revisited data are provided in **Table 2**)

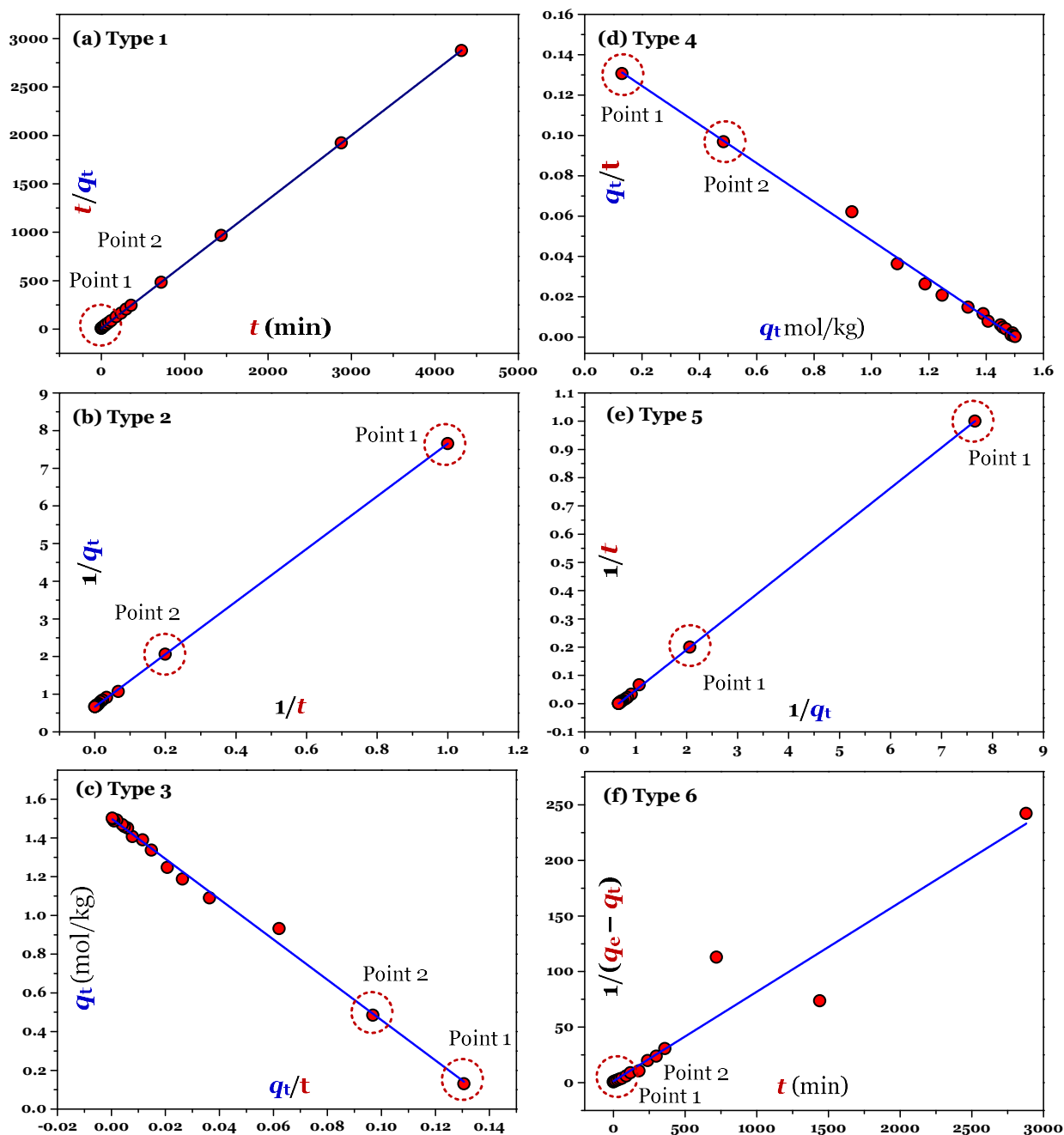


Figure S5. Re-modelling results using the six linear forms of the PSO model after submitting the Point 1 (0.131 mol/kg) and Point 2 (0.484 mol/kg) estimated from the PSO model to the datasets six (Note: the modelling results for the case of the revisited data are provided in **Table 1**)