

Supporting Information

Ethylene polymerization over supported vanadium-magnesium catalysts with different vanadium content: the effect of hydrogen on molecular weight characteristics of the produced bimodal polyethylene

Tatiana Mikenas, ^{1*} Peng Guan, ² Mikhail Matsko, ³ Vladimir Zakharov, ⁴ Zenghui Zhao ⁵ and Wei Wu ⁶

¹ Boreskov Institute of Catalysis, Siberian Branch of the Russian Academy of Sciences

² Novosibirsk National Research University, Russia

³ Boreskov Institute of Catalysis, Siberian Branch of the Russian Academy of Sciences

⁴ Boreskov Institute of Catalysis, Siberian Branch of the Russian Academy of Sciences

⁵ China National Petroleum Corporation, Daqing Chemical Research Institute

⁶ Heilongjiang University, Harbin, China

*Correspondence: mikenas@catalysis.ru; Tel.: +7 (383) 3269592, T.B. Mikenas

Decomposition of MWD curves of PE obtained over VMCs with different vanadium content, which were synthesized at different concentrations of hydrogen

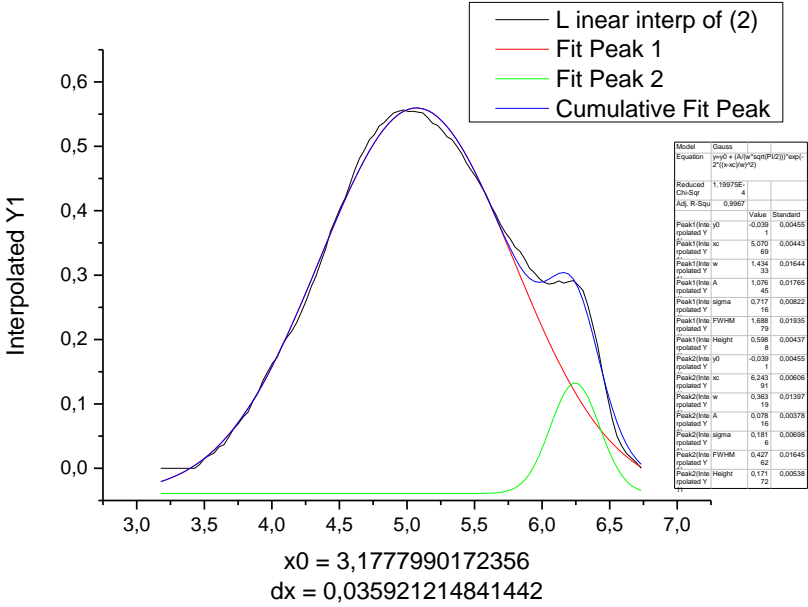


Figure S1. Decomposition of the MWD curve of PE obtained over VC1 at $[H_2]/[C_2H_4]$ (heptane) = 0.0081 (conditions of exp. 2 in Table 1)

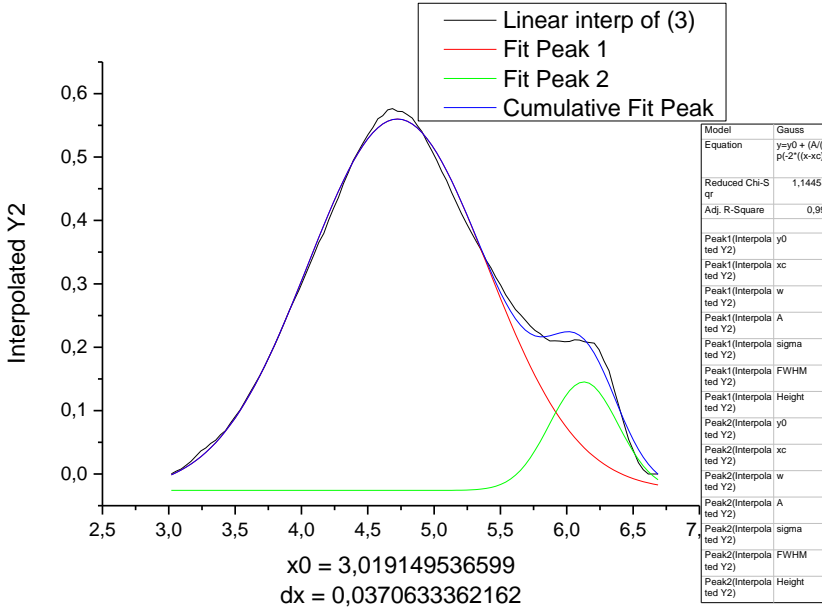


Figure S2. Decomposition of the MWD curve of PE obtained over VC1 at $[H_2]/[C_2H_4]$ (heptane) = 0.0162

(conditions of exp. 3 in Table 1)

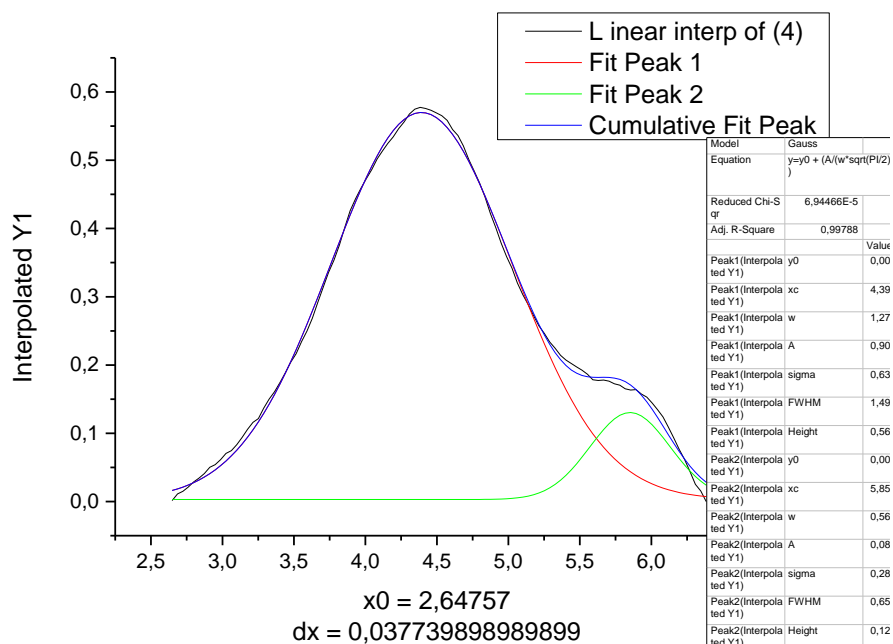


Figure S3. Decomposition of the MWD curve of PE obtained over VC1 at $[H_2]/[C_2H_4]$ (heptane) = 0.0324 (conditions of exp. 4 in Table 1)

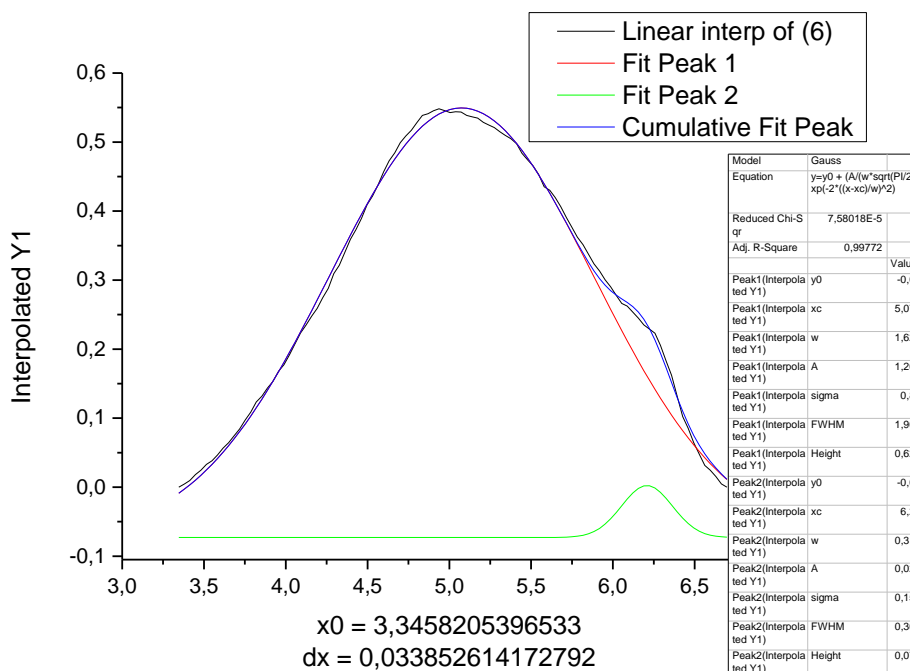


Figure S4. Decomposition of the MWD curve of PE obtained over VC2 at $[H_2]/[C_2H_4]$ (heptane) = 0.0081 (conditions of exp. 6 in Table 1)

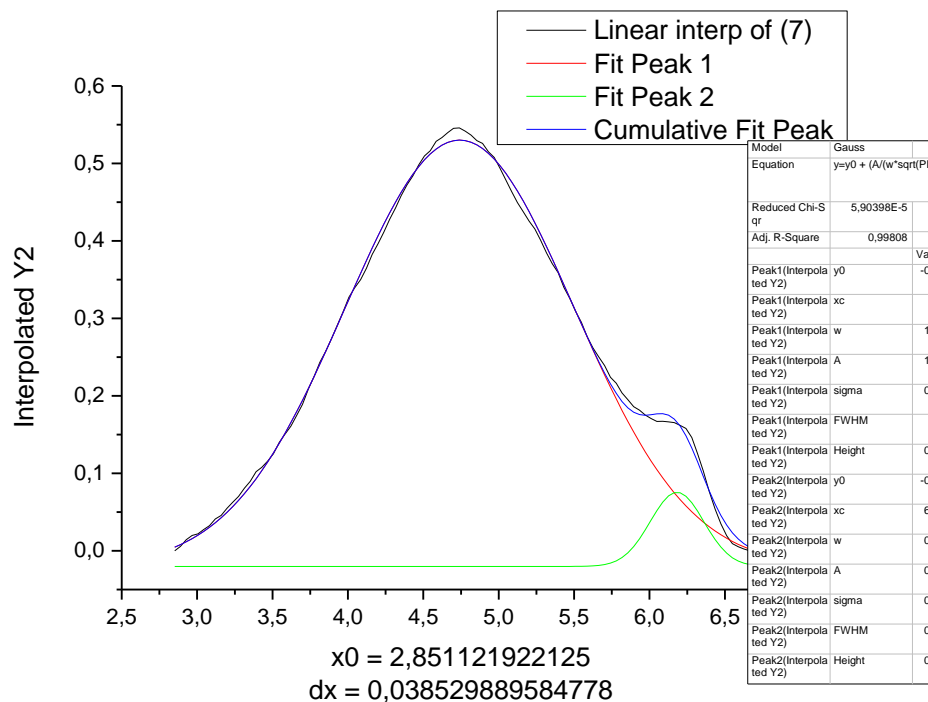


Figure S5. Decomposition of the MWD curve of PE obtained over VC2 at $[H_2]/[C_2H_4]$ (heptane) = 0.0162 (conditions of exp. 7 in Table 1)

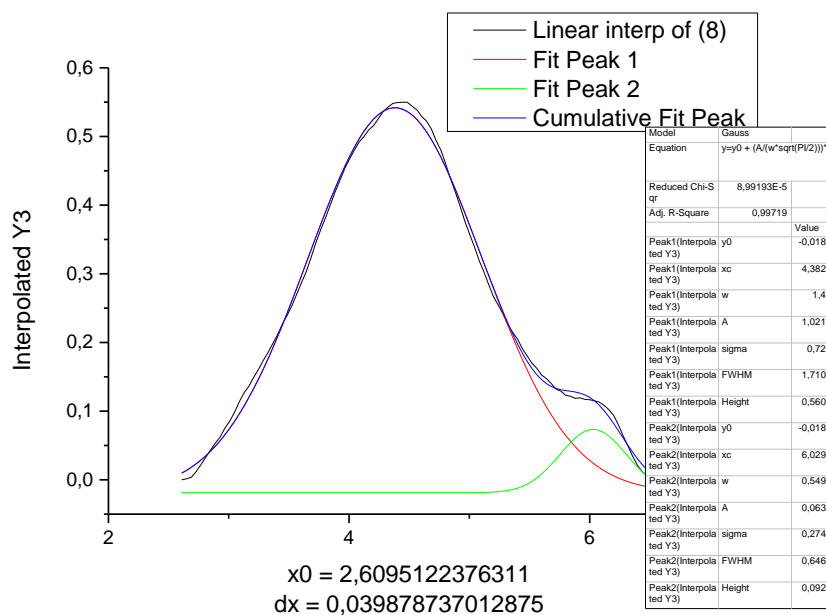


Figure S6. Decomposition of the MWD curve of PE obtained over VC2 at $[H_2]/[C_2H_4]$ (heptane) = 0.0324 (conditions of exp. 8 in Table 1)