

Figure 1. Change in (a) (H₂+CO) conversion and (b) methane selectivity with time on stream in run SA-0415 with the Ruhrchemie catalyst.

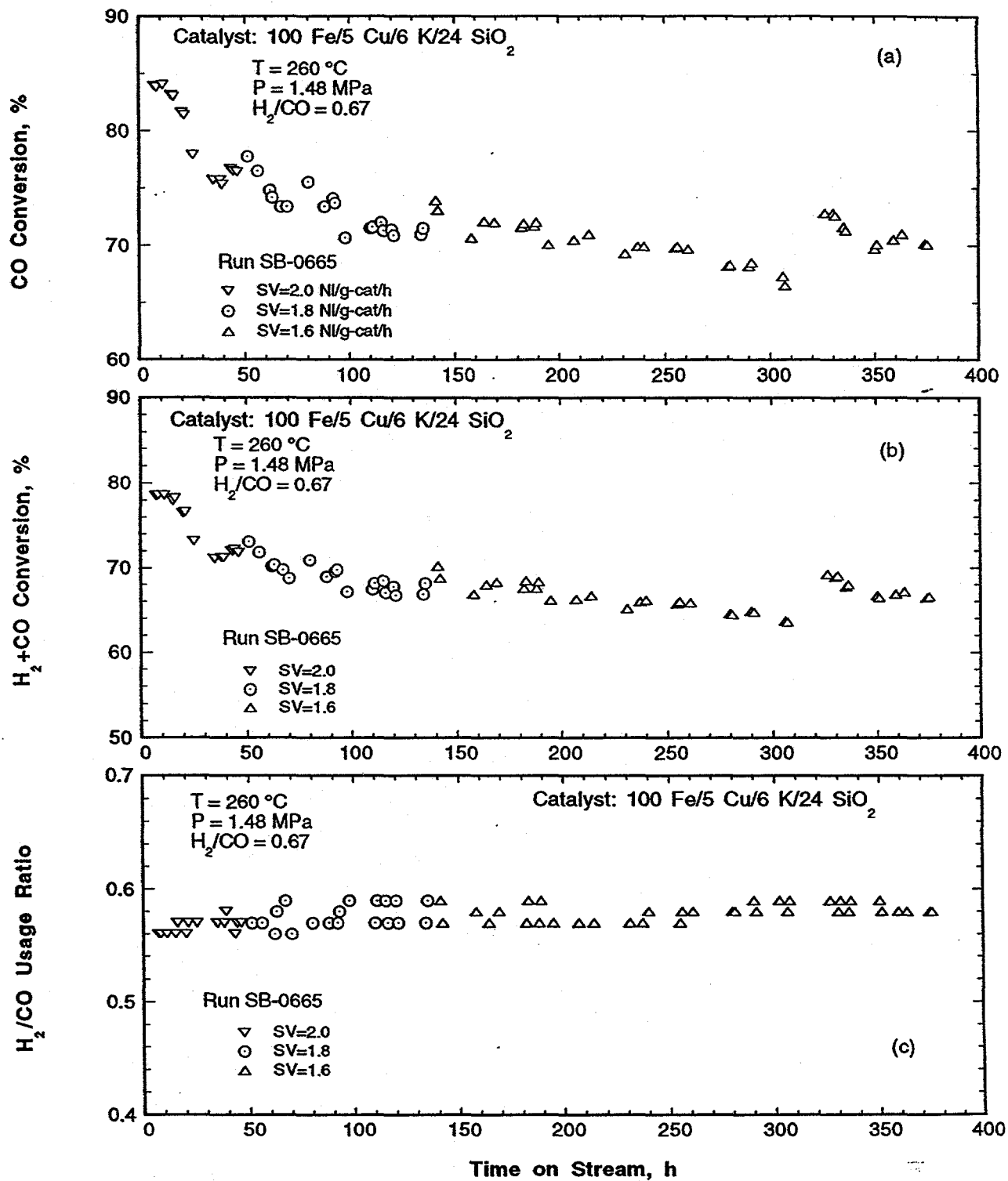


Figure 2. Variations in (a) CO conversion, (b) (H₂+CO) conversion and (c) H₂/CO usage ratio with time on stream in run SB-0665 with the 100 Fe/5 Cu/6 K/24 SiO₂ catalyst.

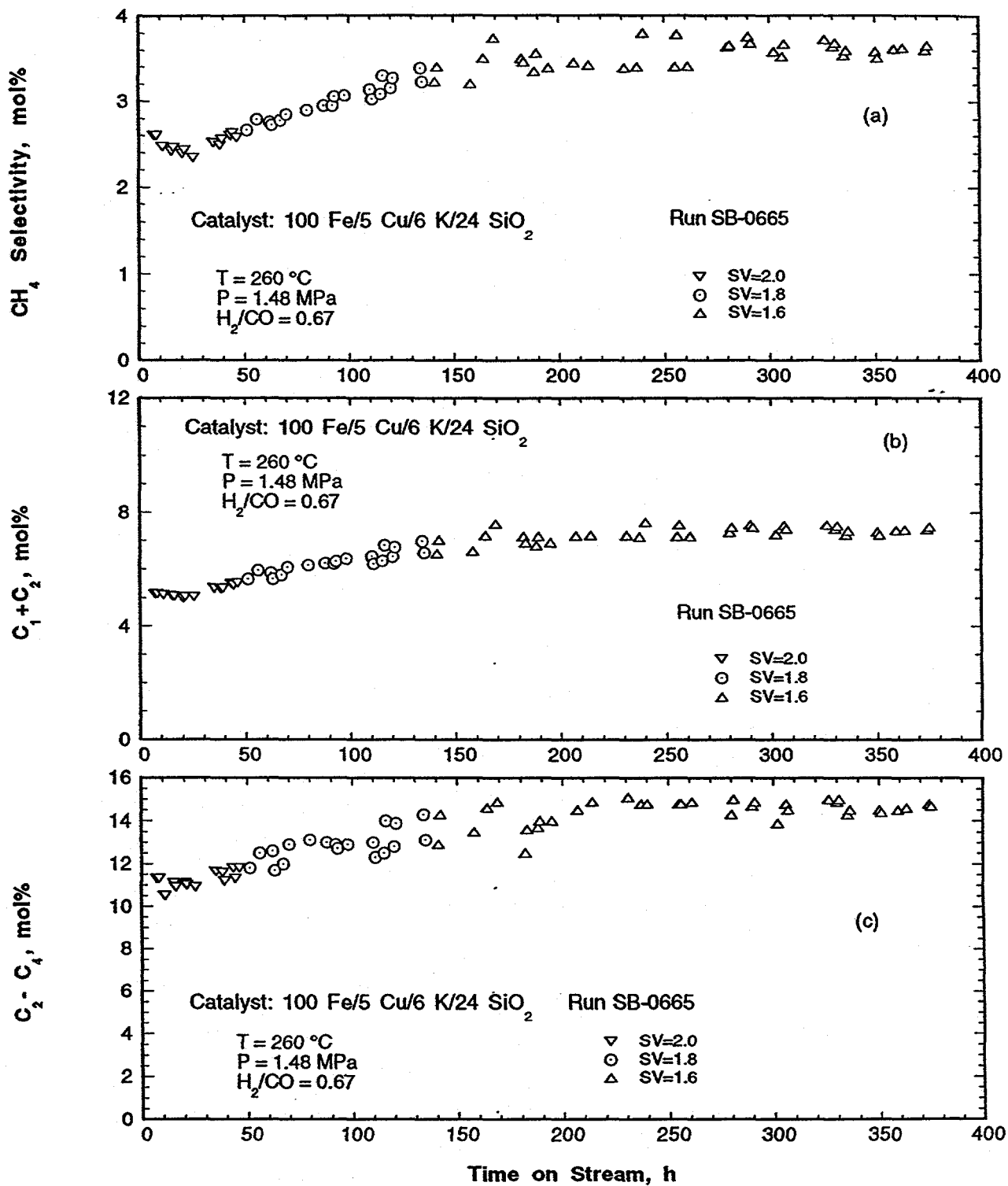


Figure 3. Variations in (a) methane, (b) (C₁+C₂) and (c) (C₂-C₄) selectivity with time on stream in run SB-0665 with the 100 Fe/5 Cu/6 K/24 SiO₂ catalyst.

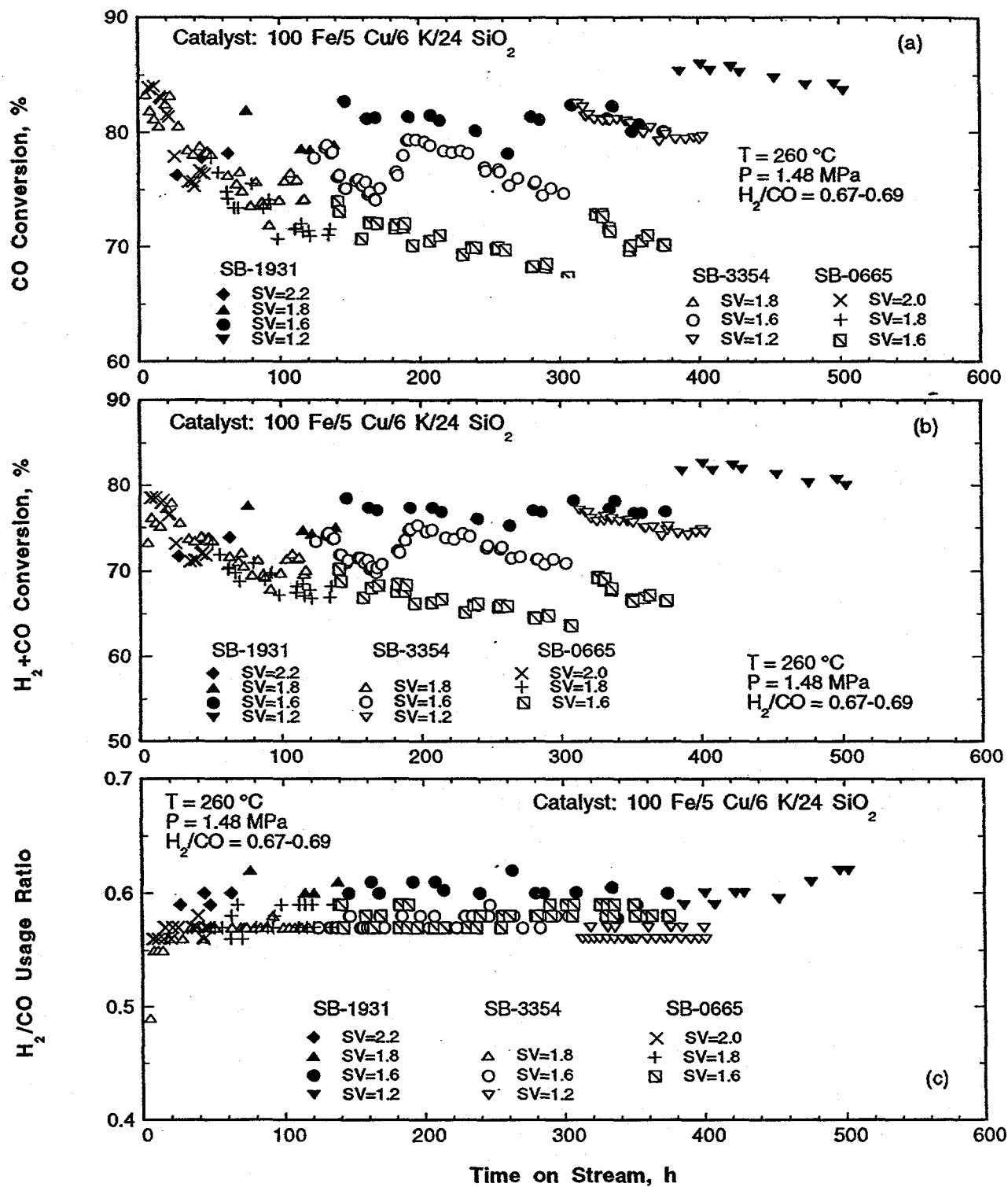


Figure 4. Comparison of (a) CO conversion, (b) (H₂+CO) conversion and (c) H₂/CO usage ratio among three tests with the 100 Fe/5 Cu/6 K/24 SiO₂ catalyst.

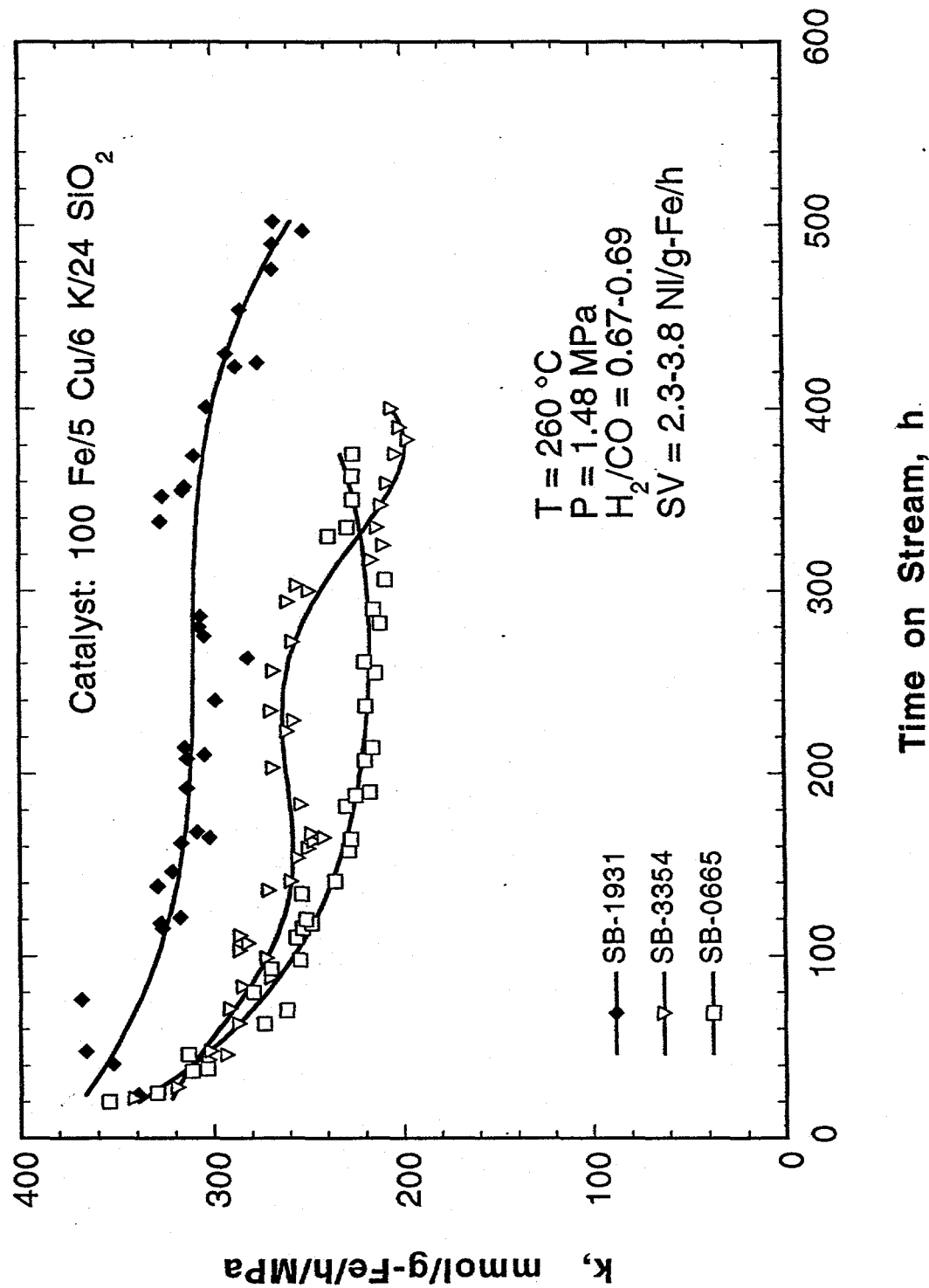


Figure 5. Comparison of an apparent first order reaction rate constant among runs SB-1931, SB-3354 and SB-0665 with the 100 Fe/5 Cu/6 K/24 SiO₂ catalyst.

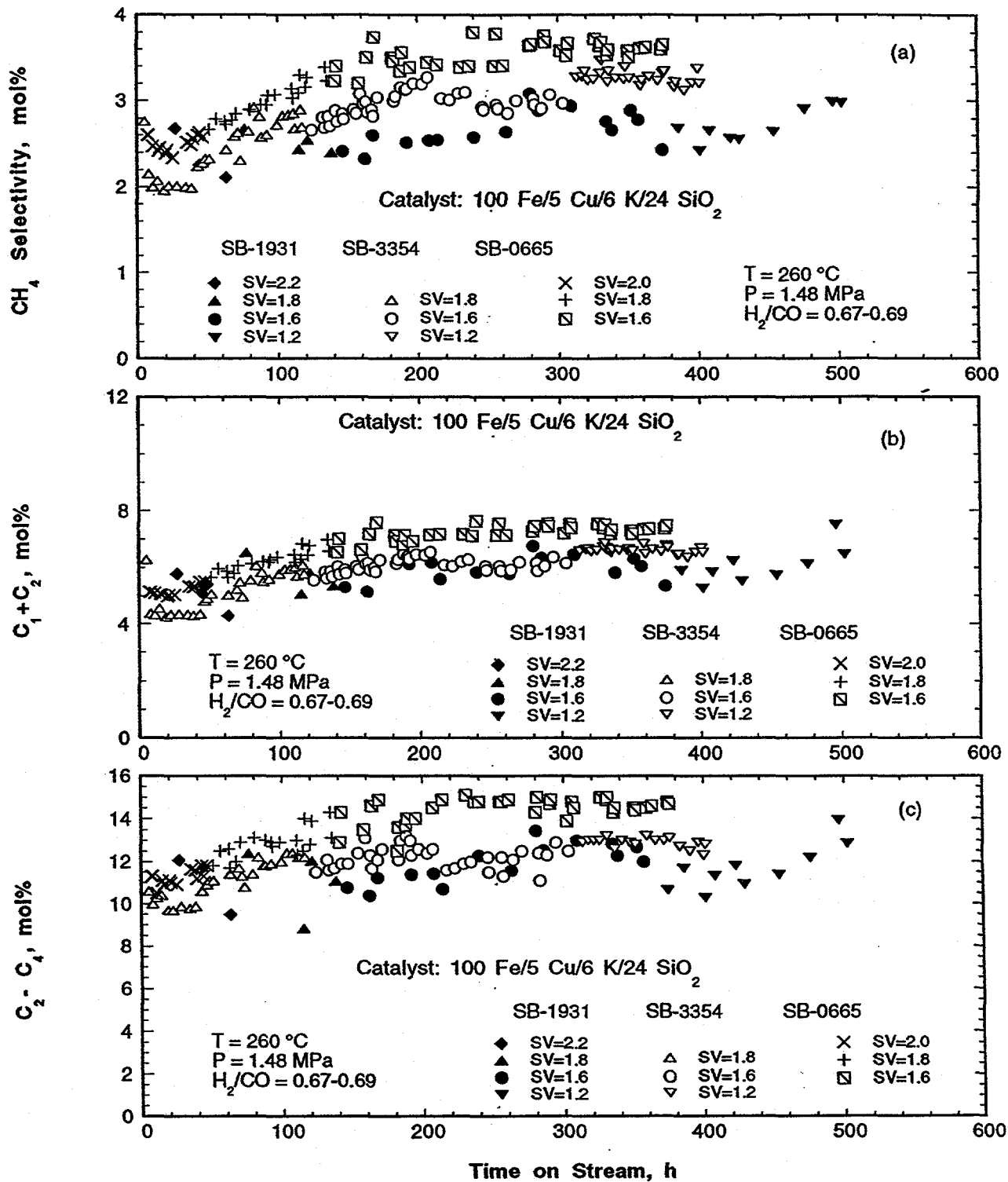


Figure 6. Comparison of (a) methane, (b) (C₁+C₂) and (c) (C₂-C₄) selectivity among three tests with the 100 Fe/5 Cu/6 K/24 SiO₂ catalyst.

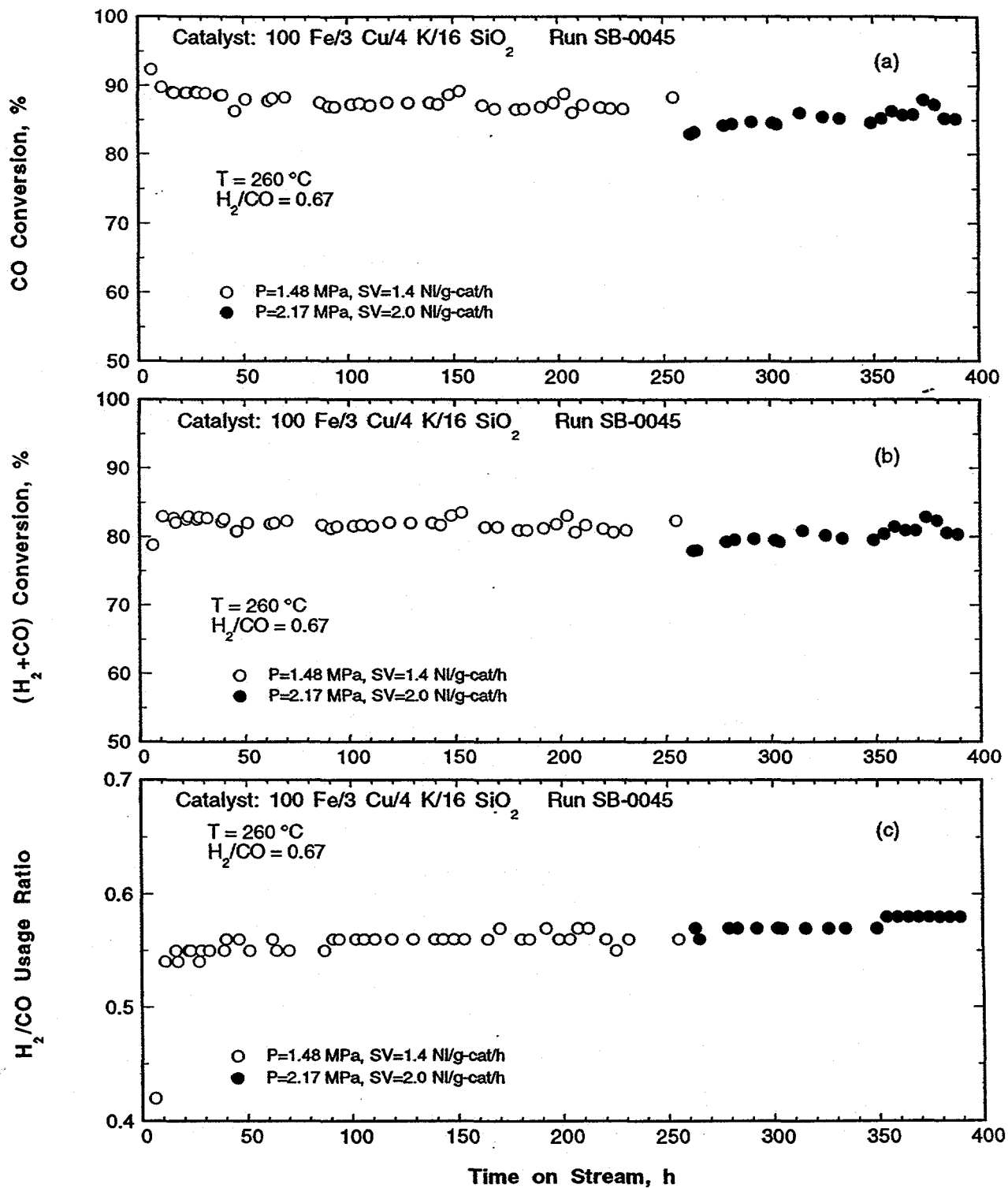


Figure 7. Variations in (a) CO conversion, (b) (H₂+CO) conversion and (c) H₂/CO usage ratio with time on stream in run SB-0045 with the 100 Fe/3 Cu/4 K/16 SiO₂ catalyst.

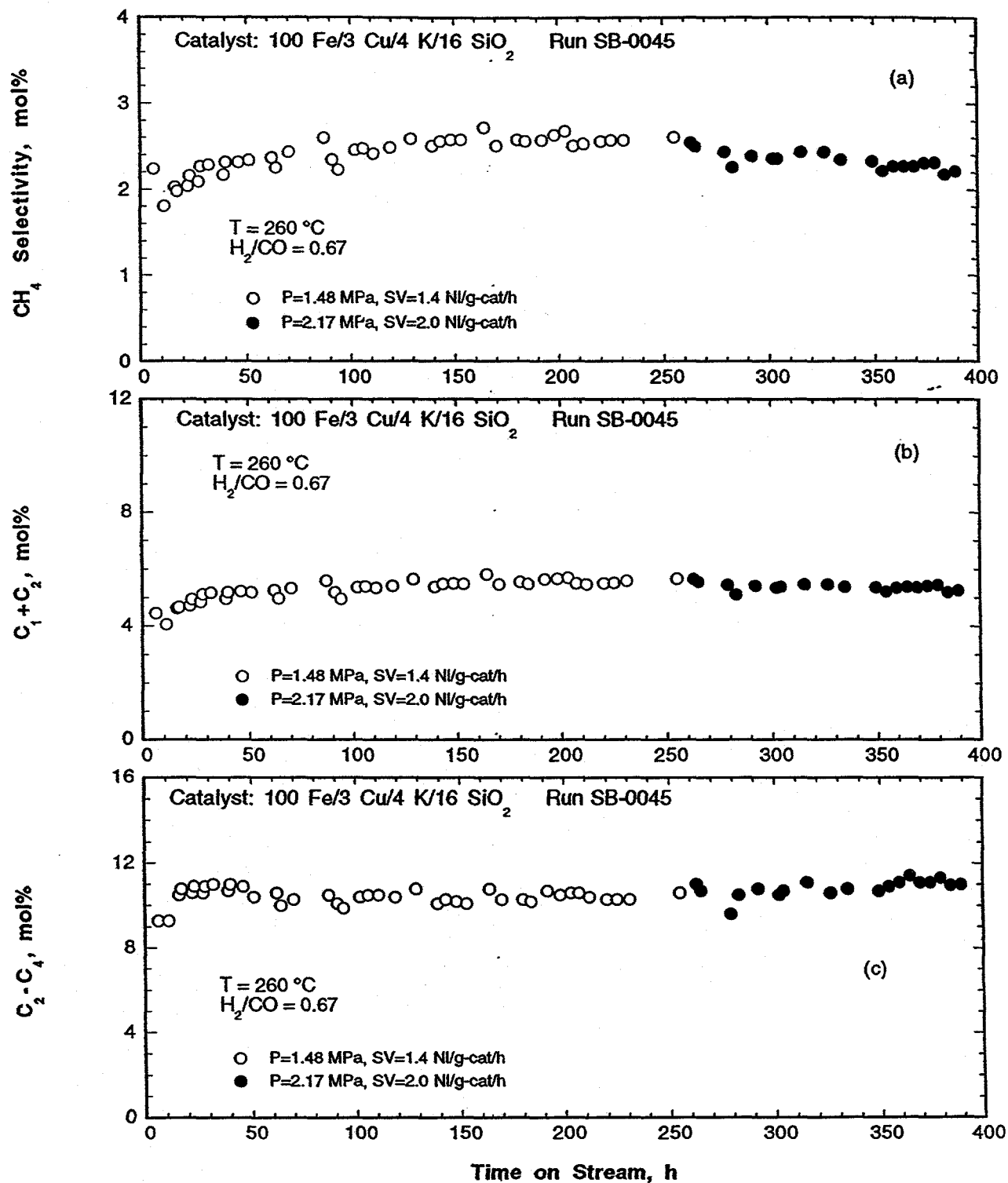


Figure 8. Variations in (a) methane, (b) (C₁+C₂) and (c) (C₂-C₄) selectivity with time on stream in run SB-0045 with the 100 Fe/3 Cu/4 K/16 SiO₂ catalyst.

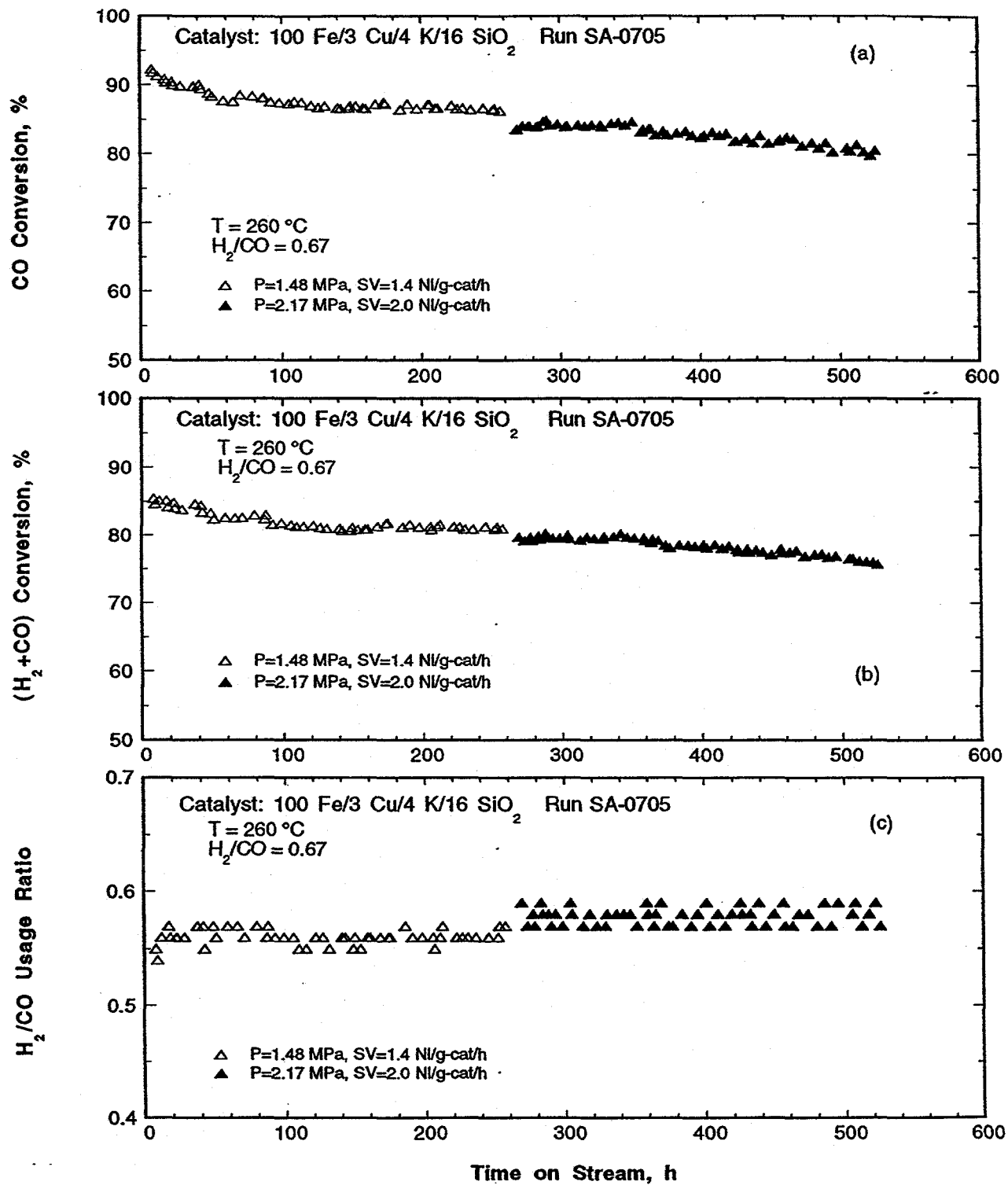


Figure 9. Variations in (a) CO conversion, (b) (H₂+CO) conversion and (c) H₂/CO usage ratio with time on stream in run SA-0705 with the 100 Fe/3 Cu/4 K/16 SiO₂ catalyst.

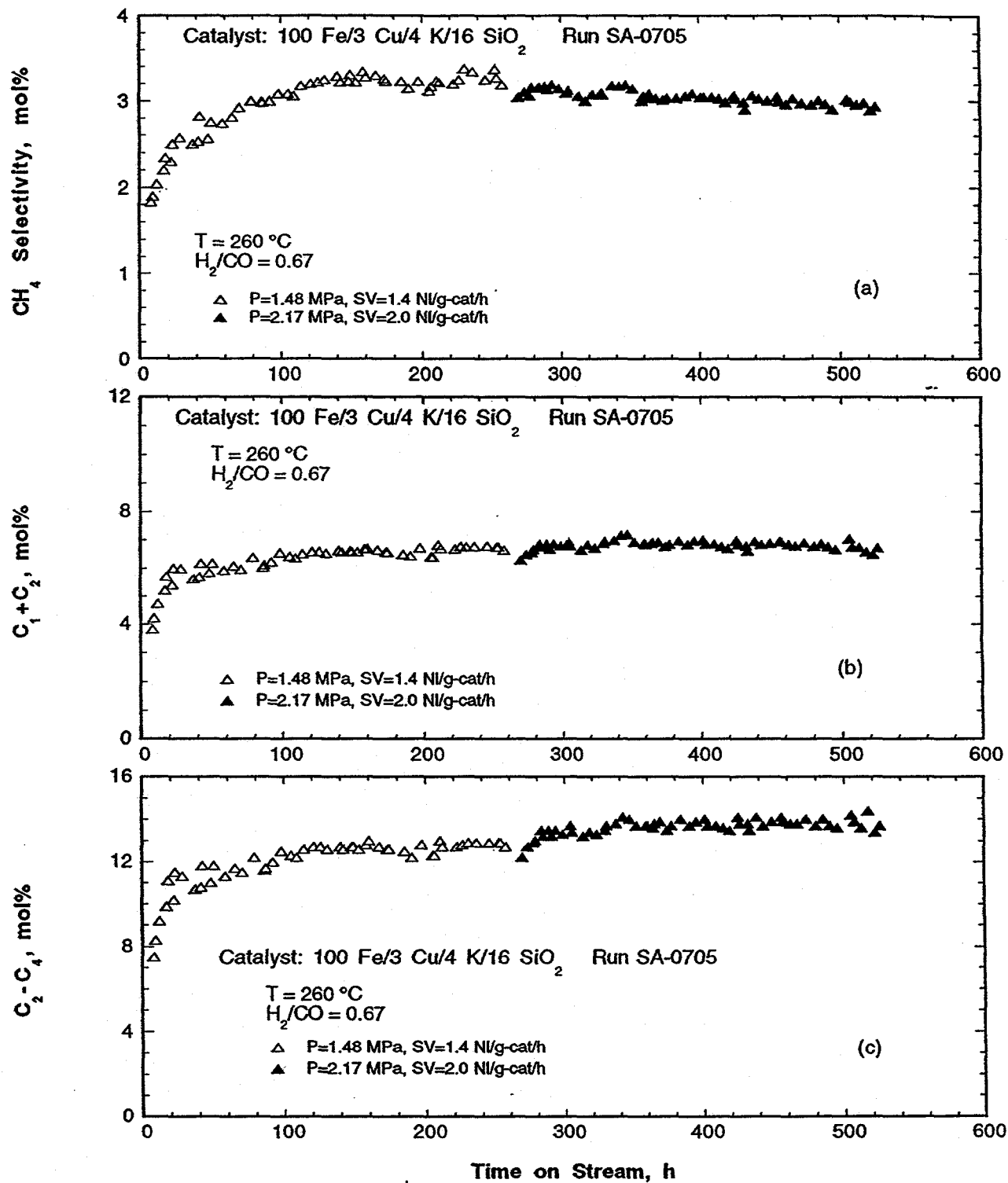


Figure 10. Variations in (a) methane, (b) (C₁+C₂) and (c) (C₂-C₄) selectivity with time on stream in run SA-0705 with the 100 Fe/3 Cu/4 K/16 SiO₂ catalyst.

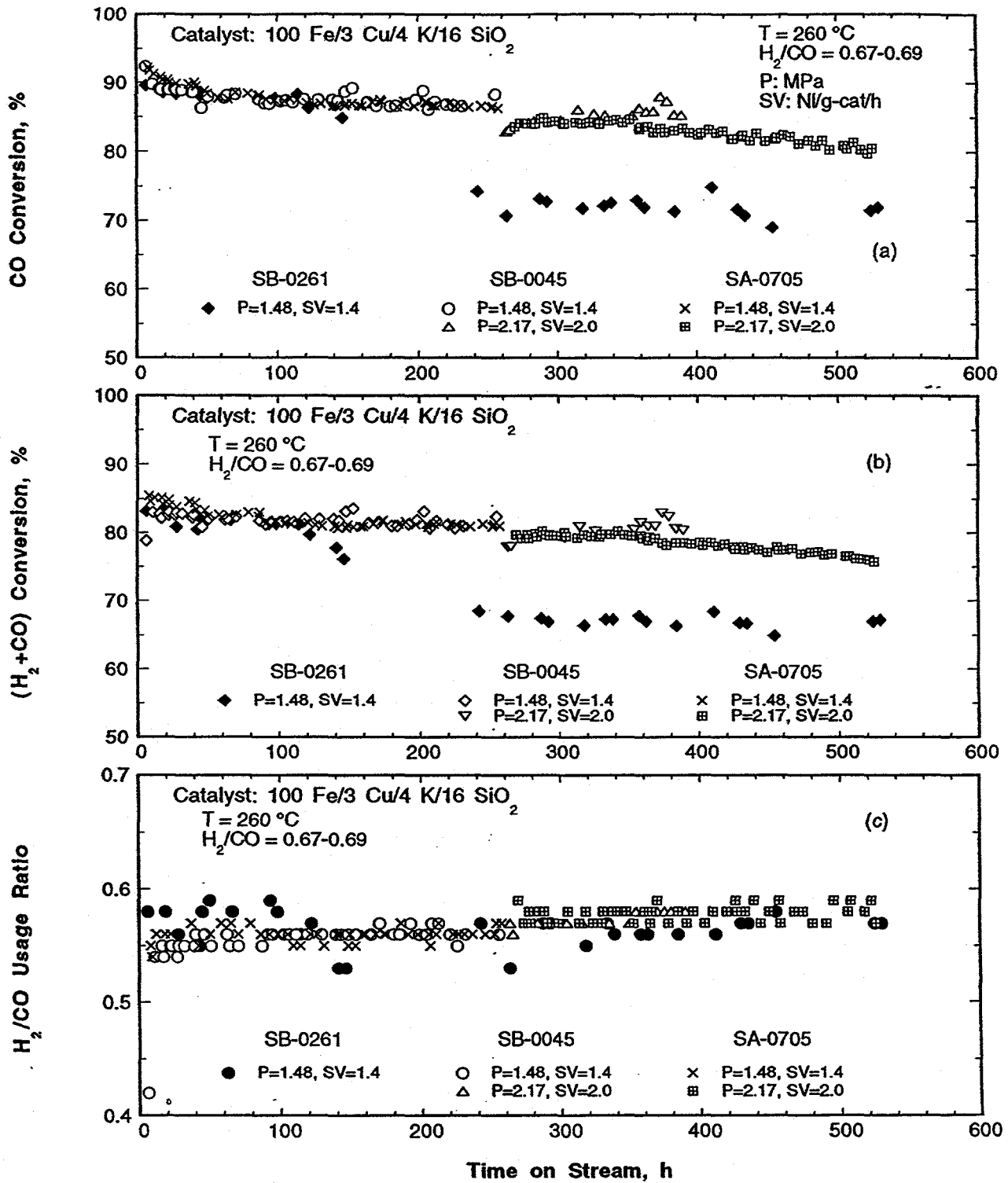


Figure 11. Comparison of (a) CO conversion, (b) (H₂+CO) conversion and (c) H₂/CO usage ratio among three tests with the 100 Fe/3 Cu/4 K/16 SiO₂ catalyst.

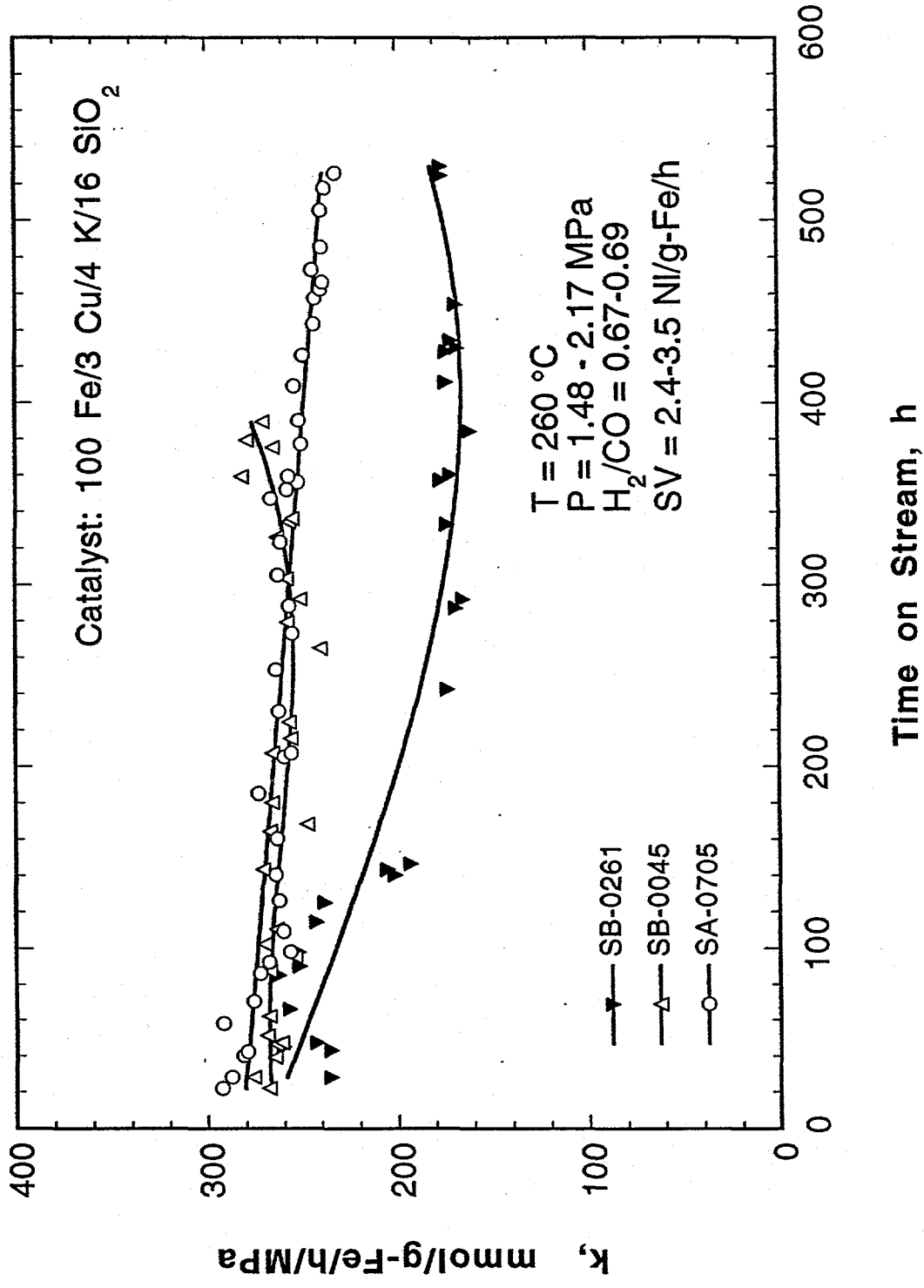


Figure 12. Comparison of an apparent first order reaction rate constant among runs SB-026, SB-0045 and SA-0705 with the 100 Fe/3 Cu/4 K/16 SiO₂ catalyst.

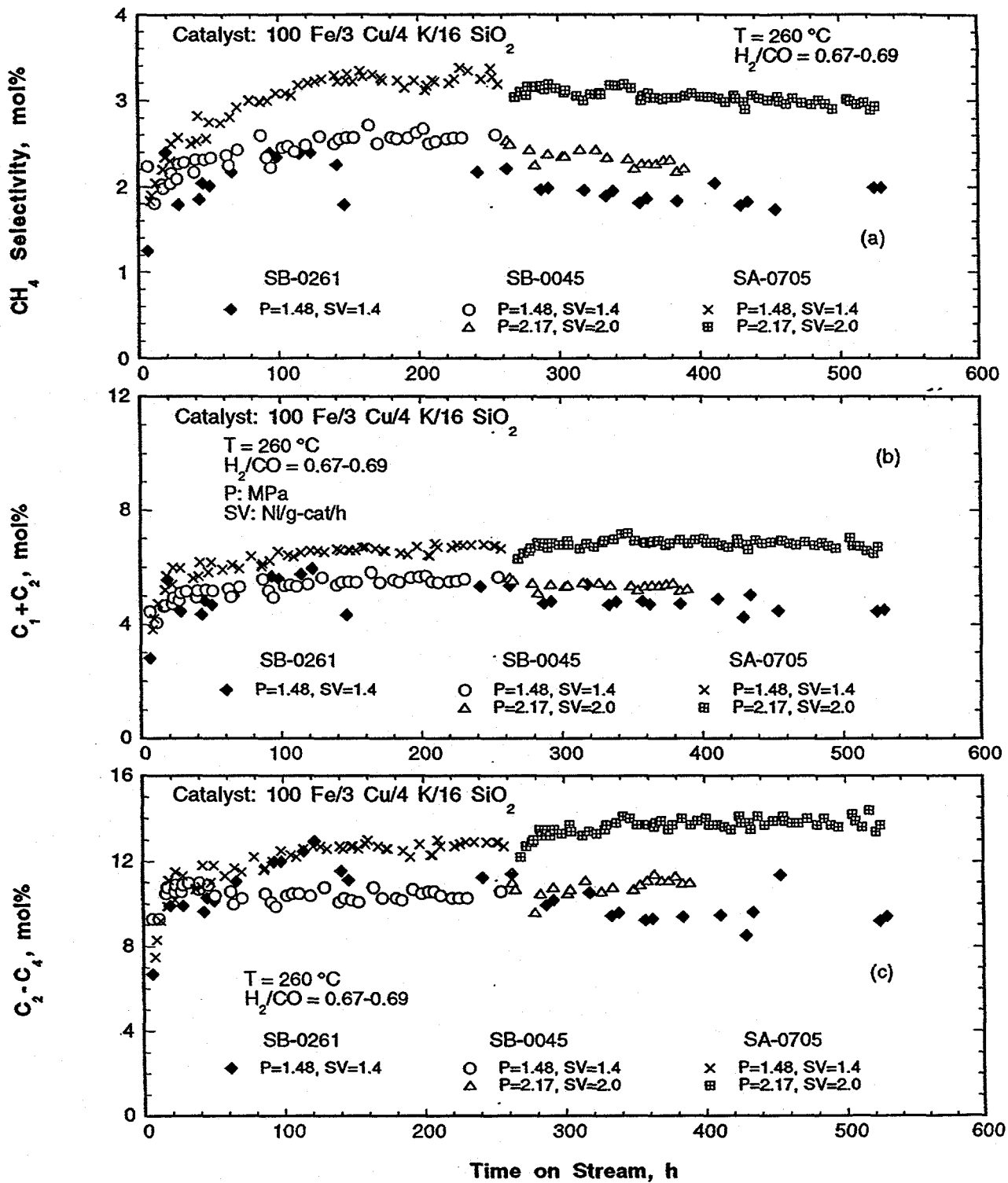


Figure 13. Comparison of (a) methane, (b) (C₁+C₂) and (c) (C₂-C₄) selectivity among three tests with the 100 Fe/3 Cu/4 K/16 SiO₂ catalyst.

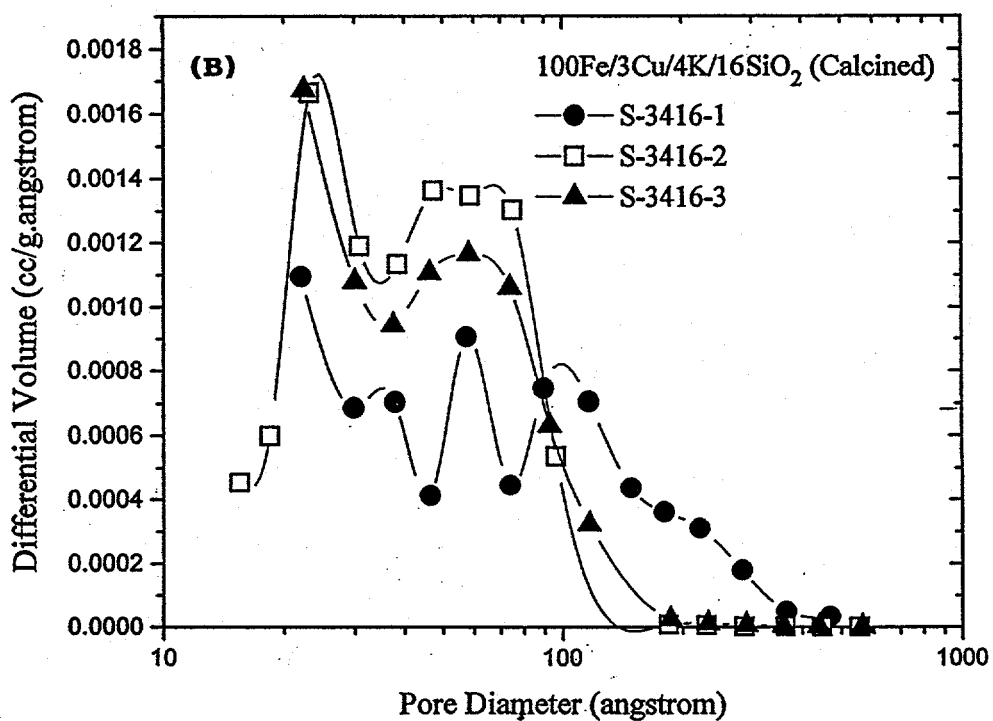
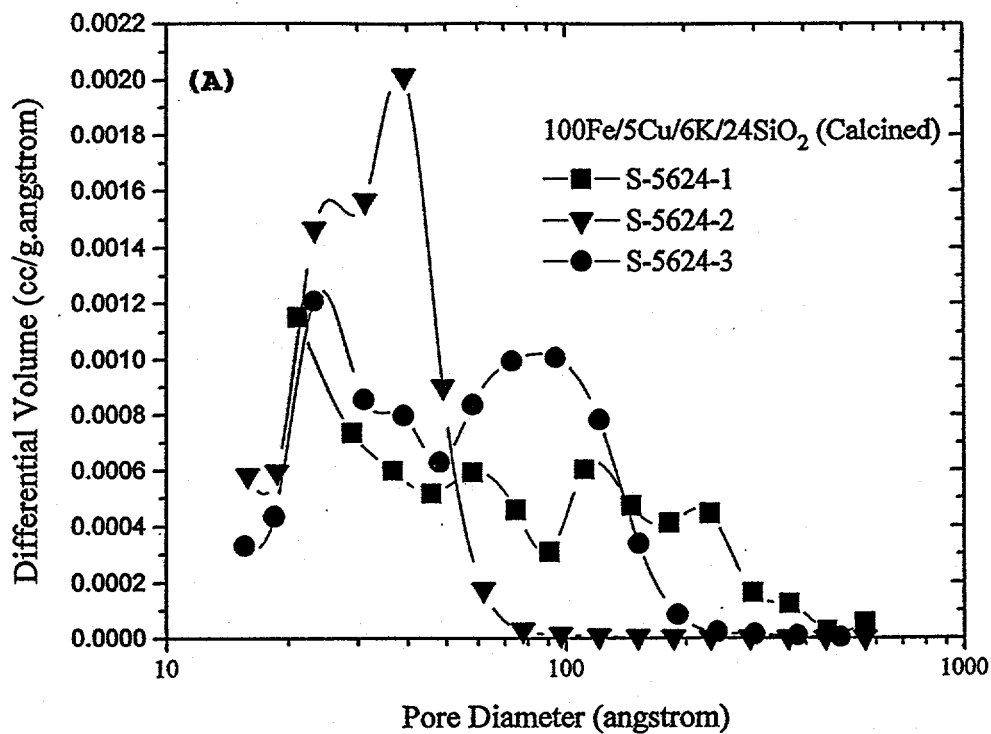


Figure 14. Pore size distribution of catalyst 100 Fe/5 Cu/6 K/24 SiO₂ (A) and catalyst 100 Fe/3 Cu/4 K/16 SiO₂ (B).