**Etude des propriétés de sulfuration de catalyseurs Mo/Al2O3 etCoMo/Al2O3 par spectroscopie d’absorption des rayons X résolue dans le temps aux seuils K du cobalt et du molybdène**

Co-K and Mo K edges Quick-XAS study of the sulphidation properties of Mo/Al2O3and CoMo/Al2O3 catalysts

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**Supporting Information**



Figure S 1: Raman bands characteristics of H2 and H2S.



Figure S 2: Fitting of the Mo K edge EXAFS spectrum of the fresh bimetallic CoMo (top) and monometallic Mo (bottom) supported catalysts.



Figure S 3: Mo K edge XAS spectra of the first and last components determined by MCR-ALS compared to the fresh and sulphided catalysts for the bimetallic CoMo (A) and monometallic Mo (B) supported catalysts.



Figure S 4: Mo K edge XAS spectra of the first and second components determined by MCR-ALS for the monometallic Mo supported catalyst.



Figure S 5: Fitting of the Mo K edge EXAFS spectrum of the intermediate components Mo-comp.2 (top) and Mo-comp.3 (bottom) obtained by MCR-ALS of the monometallic Mo supported catalyst.





Figure S 6: Fitting of the Mo K edge EXAFS spectrum of the intermediate MoCo-comp.2.



Figure S 7: Fitting of the Mo K edge EXAFS spectrum of the final sulphided bimetallic CoMo (top - fit A, middle - fit B) and monometallic Mo (bottom) supported catalysts.





Figure S 8: Fitting of the Co K edge EXAFS spectrum of the final sulphided bimetallic CoMo/Al2O3 catalyst.