

Metal oxide complexes as precursors of sulfide catalysts for HDS of DBT

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Supplementary information

Figure 1S. TGA-DTA decomposition curves.

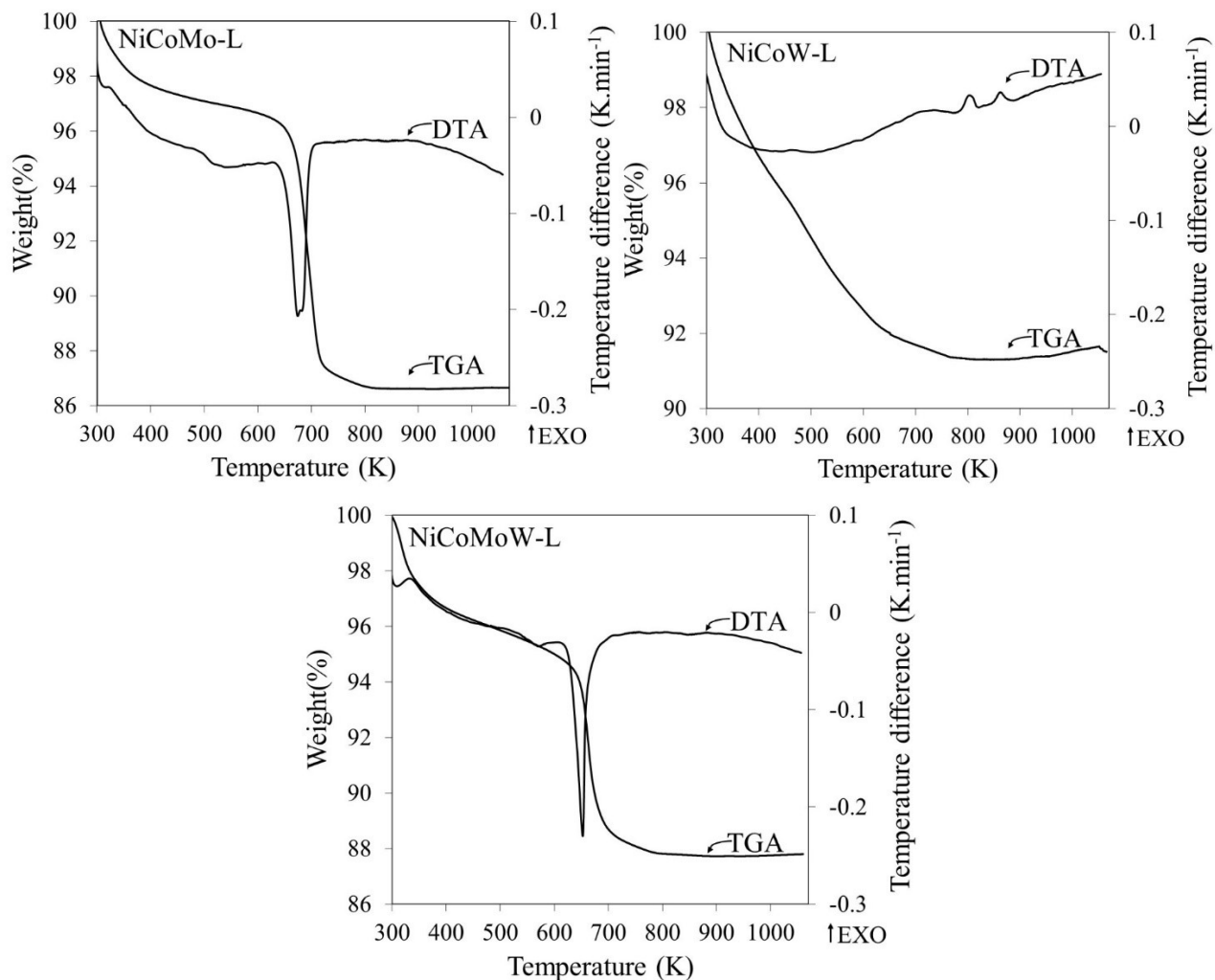


Figure 2S. Deconvolution process for the Ni 2p 3/2 emission line region for NiCoMo-O, NiCoW-O and NiCoMoW-O oxide state samples.

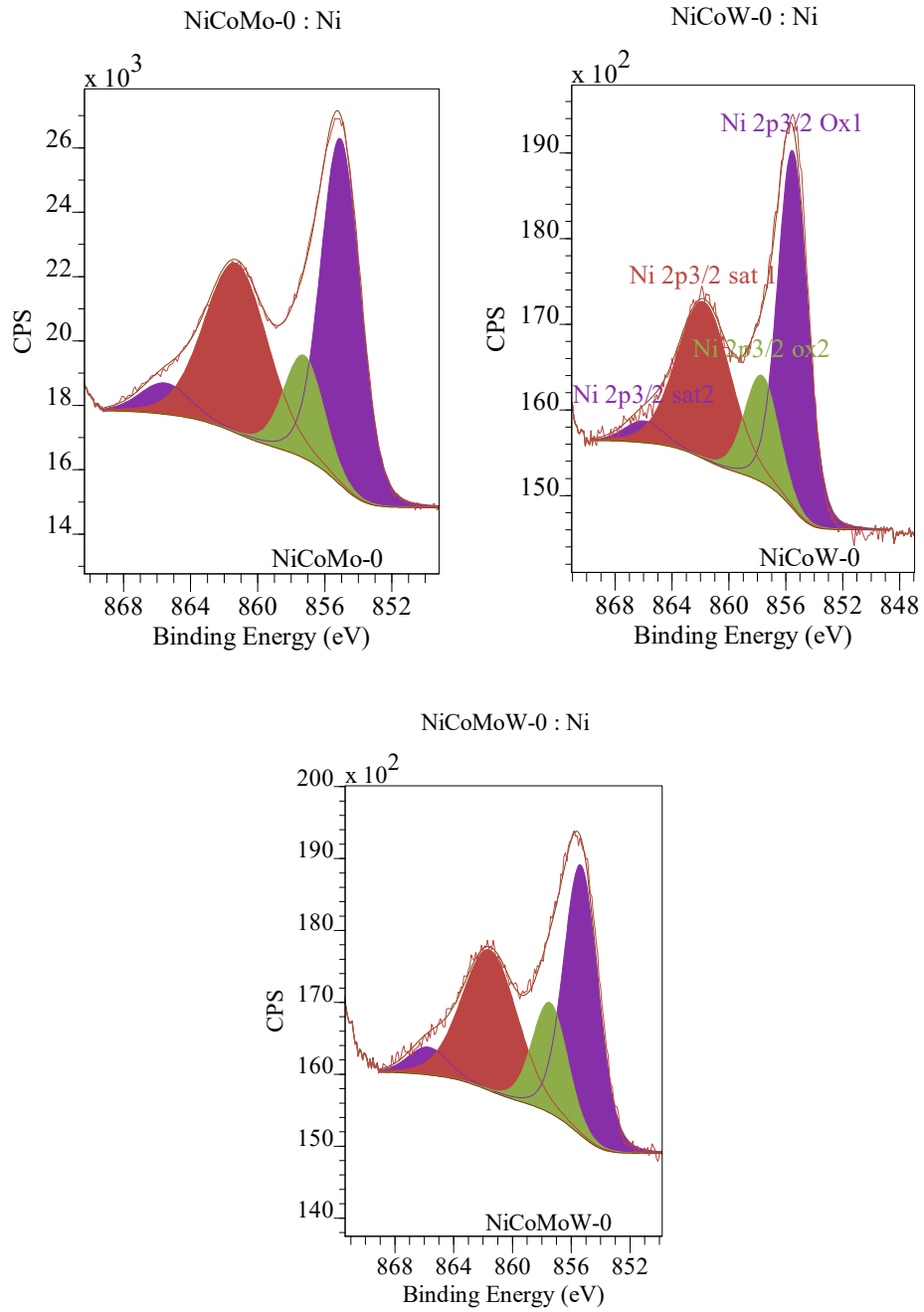


Figure 3S. Deconvolution process for the Co 2p 3/2 emission line region for NiCoMo-O, NiCoW-O and NiCoMoW-O oxide state samples.

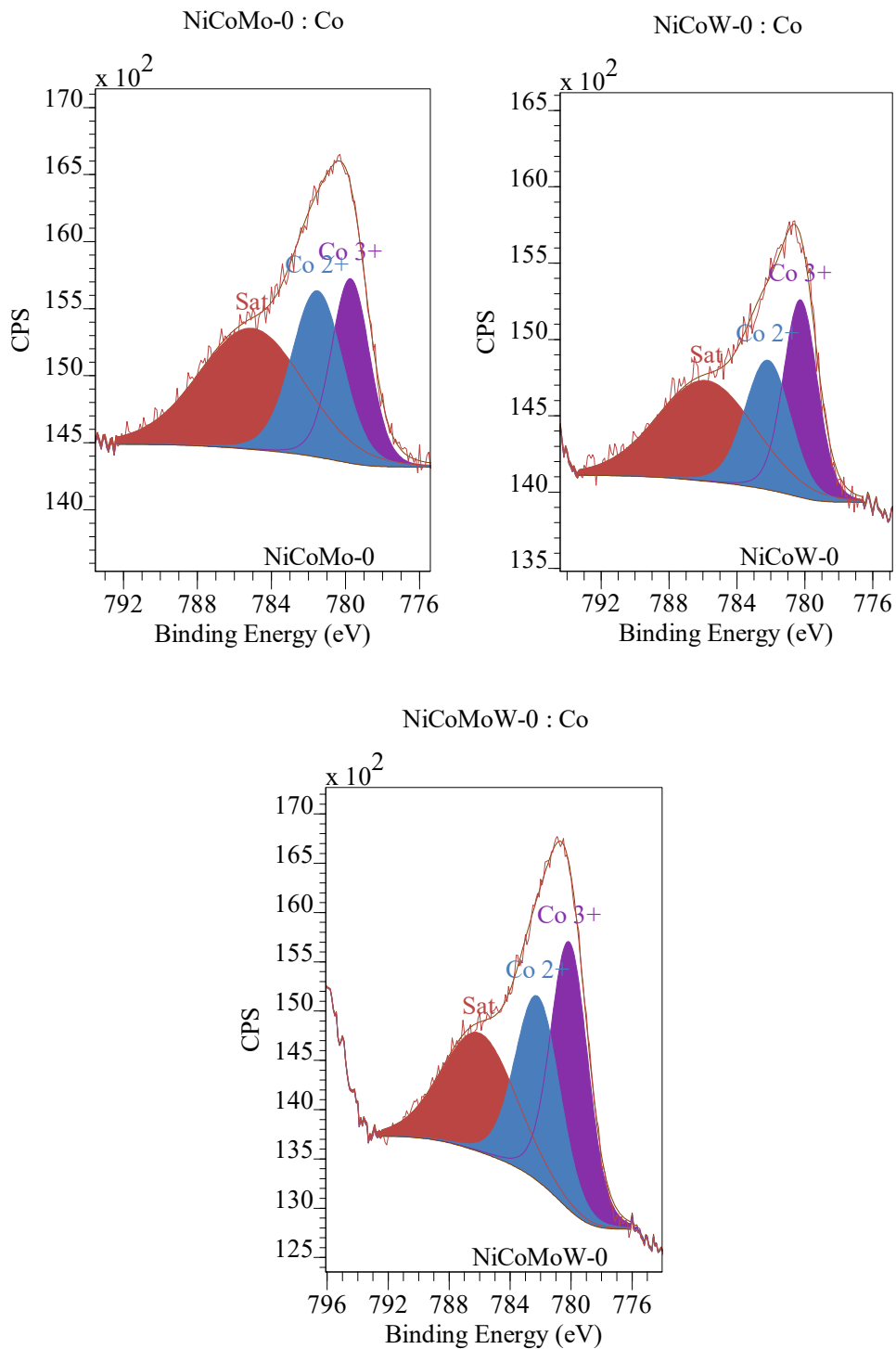


Figure 4S. Deconvolution process for the Mo 3d emission line region for NiCoMo-O, and NiCoMoW-O oxide state samples.

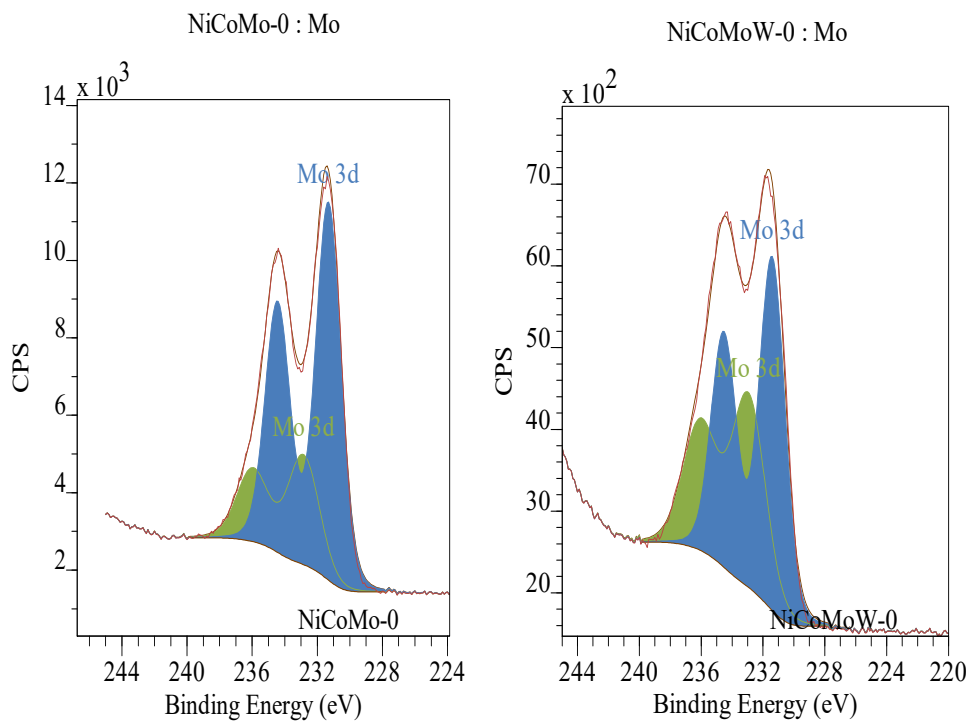


Figure 5S. Deconvolution process for the W4f emission line region for NiCoW-O and NiCoMoW-O oxide state samples.

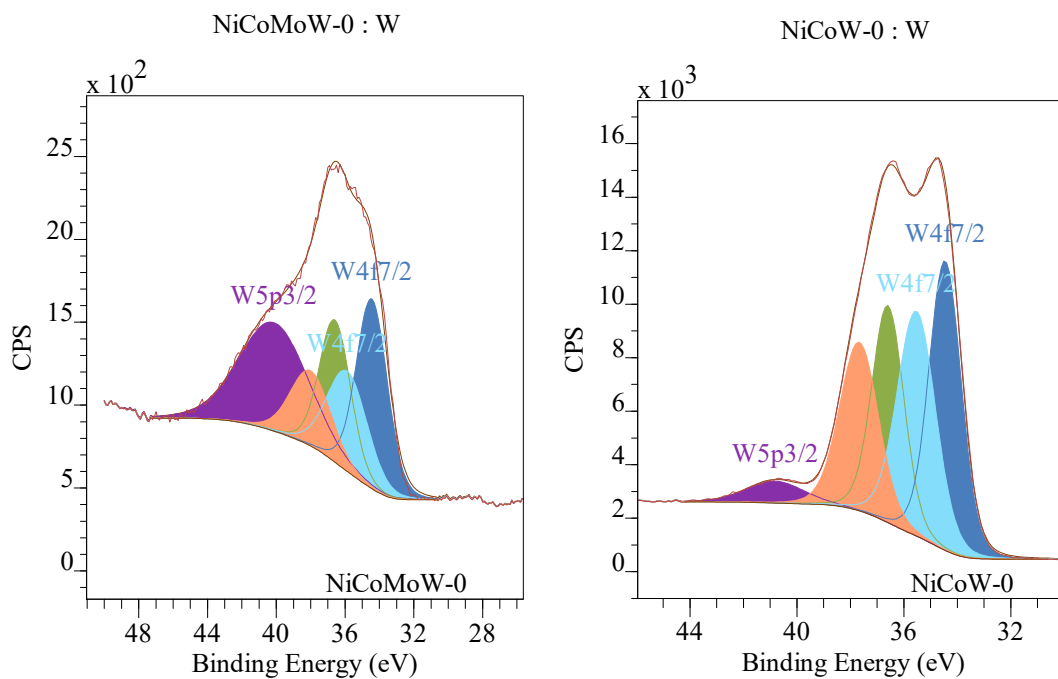


Figure 6S. XRD of TMS catalyst: NiCoMo-S and NiCoMoW-S.

