New opportunities for the non target analysis of environmental contaminants gas chromatography Orbitrap mass spectrometry


The formation of DBPs is mainly related to the type of the disinfection treatment applied, and the nature of the water source in terms of natural organic material characteristics and bioavailable and soluble content. In order to assess this, the formation of iodo-DBPs in chlorinated containing waters, lab-scale chlorination and chlorination reactions were performed. The lab-scale water was a M4 Water solution with NOM from the Missouri River (M4) (Vallerga, Salinas, Norco), which is a reference material from the International Humic Substances Society (IHSS), fortified with bromide (50 ppb, added as KBr) and iodide (50 ppb, added as KI). Following disinfection reactions with chorine and chlorine, the water sample was extracted onto XAD5 resin and analyzed with both LC and GC methods. Identification was made using the measured spectra in the measured spectra as compared to database libraries.

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REFERENCES