

Steps	MS method	Data acquired	
1	MD vs. $m/z$ diagram comparison between aerosol and aerosol+KI+H <sub>2</sub> O <sub>2</sub> /O <sub>3</sub>	Low-energy MS scan	$m/z$ and RT of potential organic iodine ions
2	Elemental composition calculation: ChemSpider search	MSMS confirmation	80 possible CHONSI chemical formulas
3	Targeted screening in real aerosol samples based on $m/z$ and RT	Low-energy MS scan	35 formulas (47 organic iodine compounds) and their peak areas observed in aerosol samples
4	4 compounds quantified with their standards; 43 compounds semi-quantified with surrogate standards	Low-energy MS scan of commercial standards	Concentrations of individual non-aromatic compounds and total aromatic iodine compounds