CONTENT

CHAPTER 1	9
General Introduction	11
CHAPTER 2	25
New Analytical Methods for the Monitoring of Emerging Pollutants in Aquatic Environment	
2.1. Multi-residue method for trace level determination of pharmaceuticals in environmental samples using liquid chromatography coupled to triple quadrupole mass spectrometry	27
2.2. Simultaneous determination of 32 antibiotics in aquaculture products using LC-MS/MS	40
2.3. Comparison of the quantitative performance of Q-Exactive high resolution mass spectrometer with that of triple quadrupole MS/MS for the analysis of illicit drugs in wastewater	48
CHAPTER 3	61
Application of Passive Sampling Approach for Wastewater Sampling	
3.1. Passive sampling of perfluorinated acids and sulfonates using polar organic chemical integrative samplers	63
CHAPTER 4	71
Wastewater Analysis: Perspectives and Complications	
4.1. Compliance to oseltamivir among two populations in Oxfordshire, United Kingdom affected by influenza A(H1N1)pdm09, November 2009 – a wastewater epidemiology study	73
4.2. Storage effect on the analysis of pharmaceuticals and personal care products in wastewater	81
CHAPTER 5	93
General Discussion English Summary Czech Summary Acknowledgements List of Publications Training and Supervision Plan during Study Curriculum Vitae	95 103 105 107 109 111 112