A MODIFIED QTOF MASS SPECTROMETER FOR RAPID AND UN-equivocal IDENTIFICATION OF METABOLITES IN-VIVO WITH ENHANCED MASS SPECTRAL RESOLUTION AND DYNAMIC RANGE

INTRODUCTION

BACKGROUND

IN-VIVO

Jose Castro-Perez1, John Shockcor1, Kate Yu1, Henry Shion1, Emma Marsden-Edwards2, Jason Wildgoose2, Martin Green2, John Hoyes2, Alistair Wallace2, Yasuhiro Yamada3

A MODIFIED QTOF MASS SPECTROMETER FOR RAPID AND UN-equivocal IDENTIFICATION OF METABOLITES

enhanced spectral resolution of over 40,000 FWHM is achieved using a system which allows us to obtain a dynamic range of over 104. The improved dynamic range is achieved via a novel ADC based detection workflow that consists of a modified QTof mass spectrometer with safety testing (MIST), there is added emphasis on the need to have...