IFT Injector Interface for Mass Spectrometers









IFT Injector interface coupled to a LECO's HRTOF

IFT Injector interface coupled to a Thermo's Orbitrap

IMPROVED SENSITIVITY IN LC-MRM ANALYSIS OF PEPTIDES FROM HIGHLY COMPLEX BACTERIAL PROTEOME



Benefits:

- ► 20- to 100-fold higher sensitivity
- ► 5-fold less chemical noise
- ► Stable robust operation

Features:

- Orthogonal injection into the RF field eliminates/drastically reduces instrument contamination
- Typical improvement in the limit of detection varies from 5X to 100X, depending on the mass spectrometer design
 Interface is compatible with any mass spectrometer
 Coefficient of variance is less than 10% in LC-MS analyses of complex samples
 Full programmatic control, turn-key device amenable to custom-engineering

- The NanoLC 1D plus Eksigent LC system combined with TSQ Quantuma MS,
- LC column 75-µm i.d., 20-cm long packed with C18, 3-µ m particles, 100 Å pores;
- LC gradient 40 min (H2O/0.2%
 FA : ACN): 2-50%, Flow rate
 500 nL/min



LIMIT OF DETECTION WITH A COMMERCIAL TOFMS USING DIRECT INFUSION OF RESERVINE







Signal intensity versus time for seven peptides at 1 µM concentration, direct ESI infusion for 18 hours



