

Authors: Robert B. Cody (JEOL USA, Inc.) and James A. Laramée (EAI Corp.)

Title of primary article: A Versatile New Ion Source for the Analysis of Materials Under Ambient Conditions.

Abstract: This section contains additional mass spectra measured by using the DART ion source in combination with the atmospheric pressure ionization time-of-flight mass spectrometer.

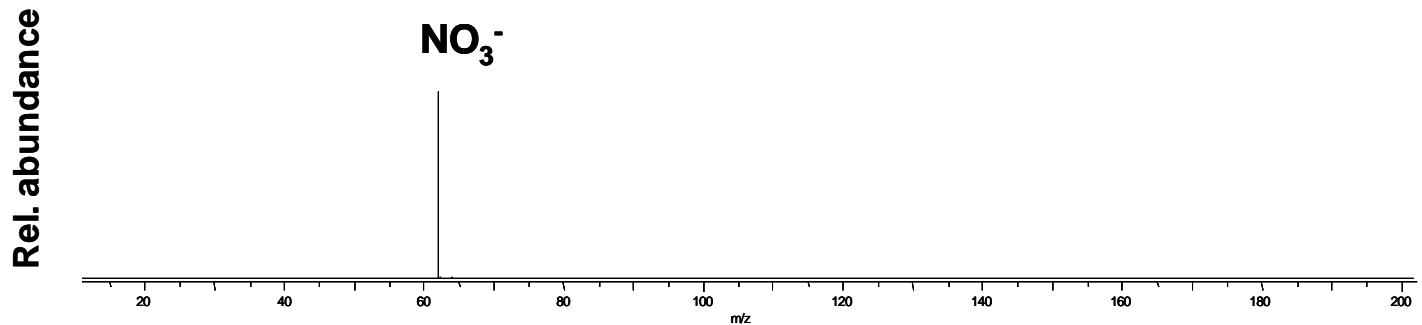


Figure S-1. Nitrate anion detected when a small vial of aqueous nitric acid is opened ten feet away from the DART.

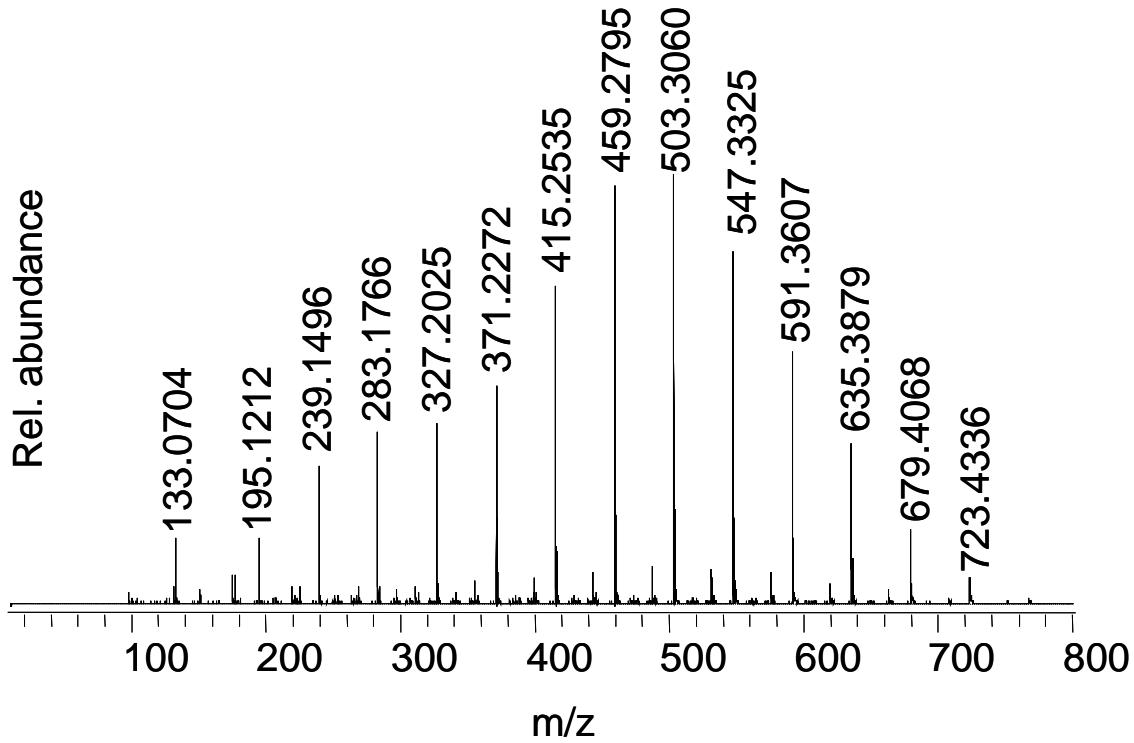


Figure S-2. Positive ions produced by DART from neat PEG 600 on a glass rod.

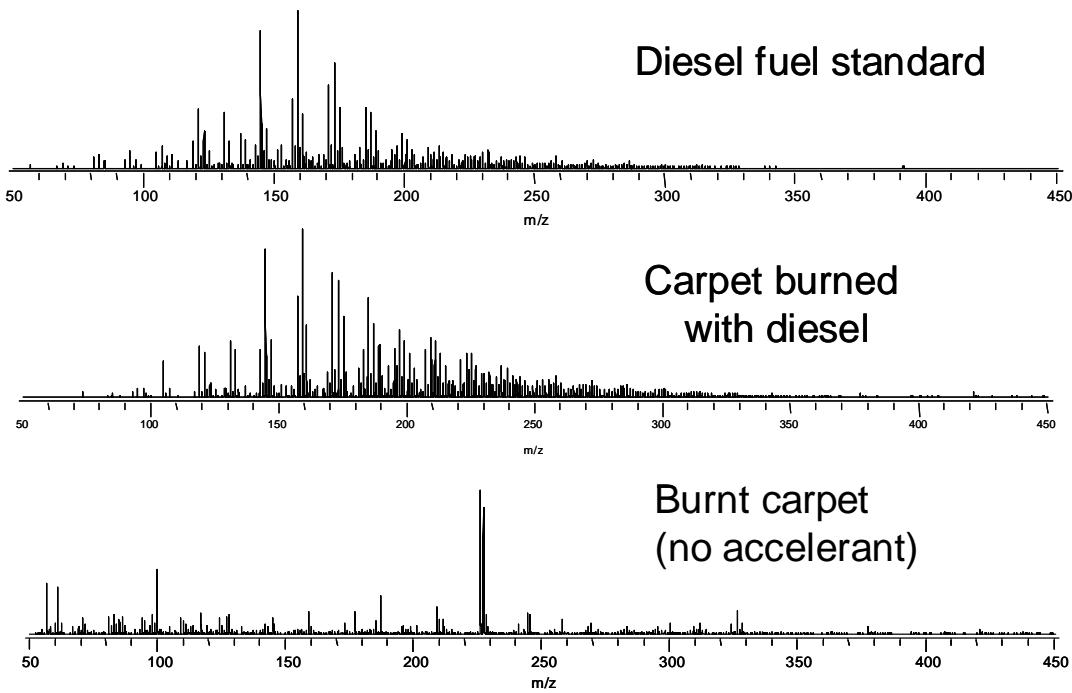


Figure S-3. Detection of diesel fuel accelerant in charred carpet.

Measured m/z (ClO_4^-): 98.9487

Calculated m/z: 98.9485

Difference: 0.0002

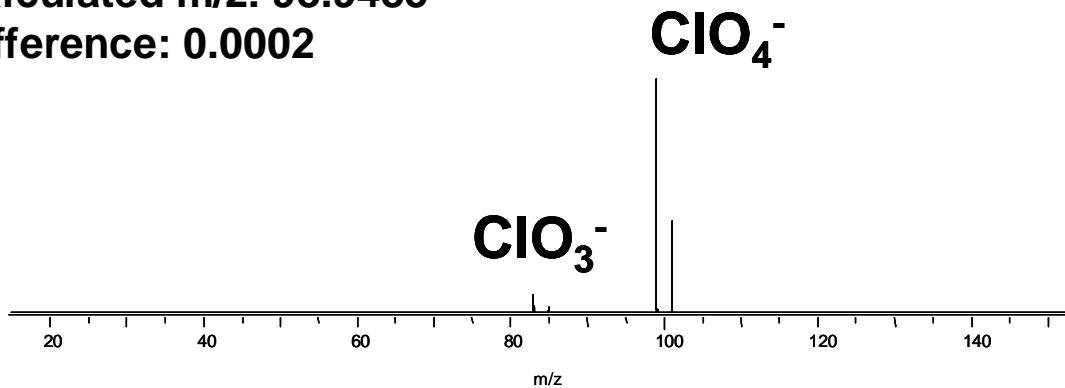


Figure S-4. Sodium perchlorate deposited on a glass rod and analyzed by DART.

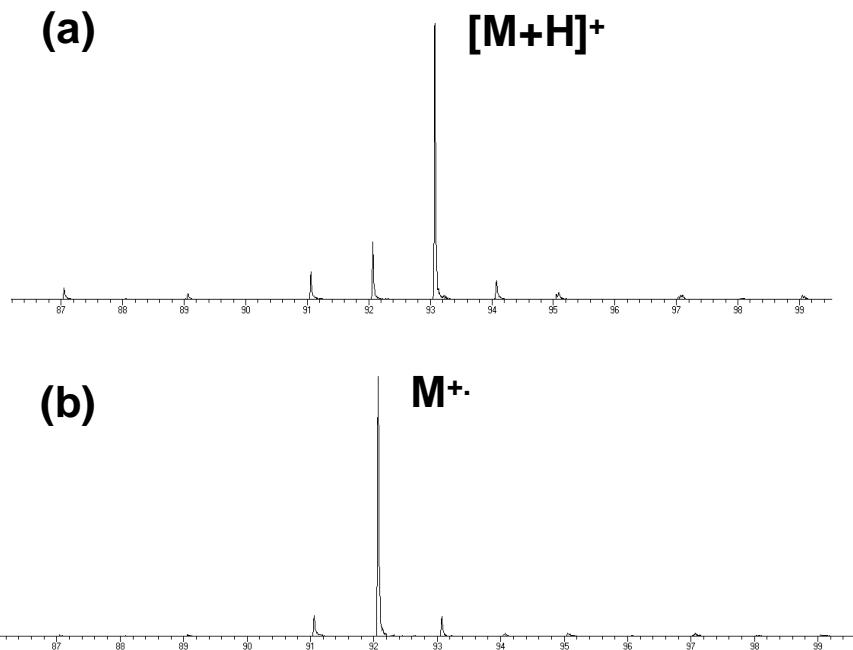


Figure S-5. Toluene ionized by using DART with (a) helium, top and (b) nitrogen, bottom.

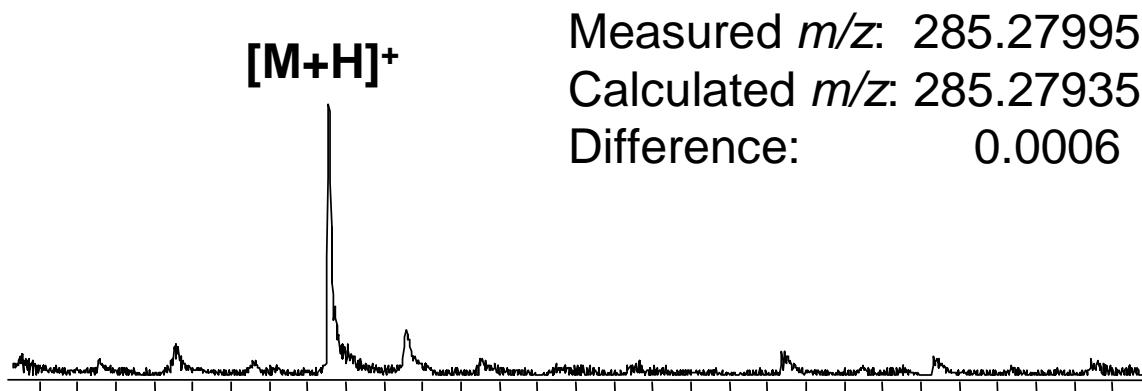


Figure S-6. Detection of 2 pg ethyl palmitate applied to a glass rod.