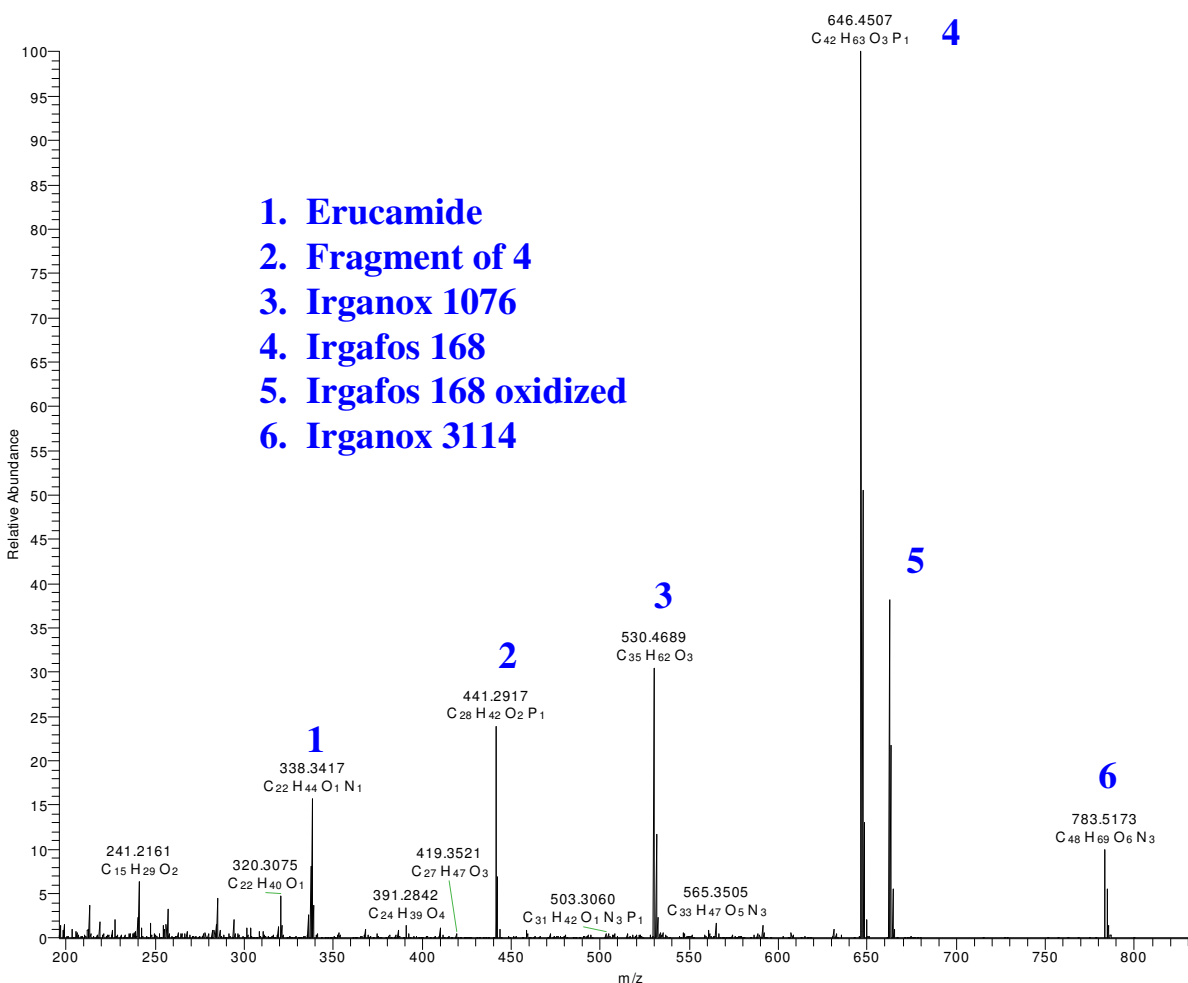


Additives in Polymers by ASAP

ASAP has been used for the rapid analysis of polymers to determine additives. Compounds such as UV stabilizers, antioxidants, processing aids and clarifiers can be seen by placing a small piece of polymer on the ASAP probe and inserting it into the hot gas stream of the mass spectrometer API source. The vaporized additives are ionized using discharge ionization as in APCI. Below are the additives found in a small piece of polyethylene carpet fiber.



1. Erucamide
2. Fragment of 4
3. Irganox 1076
4. Irgafos 168
5. Irgafos 168 oxidized
6. Irganox 3114

ASAP analysis of a carpet fiber