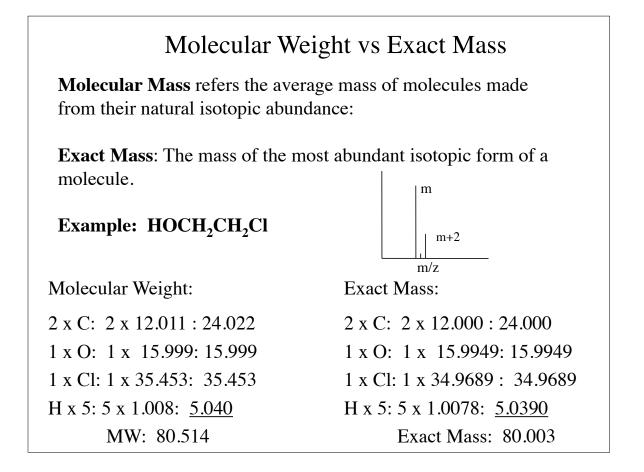
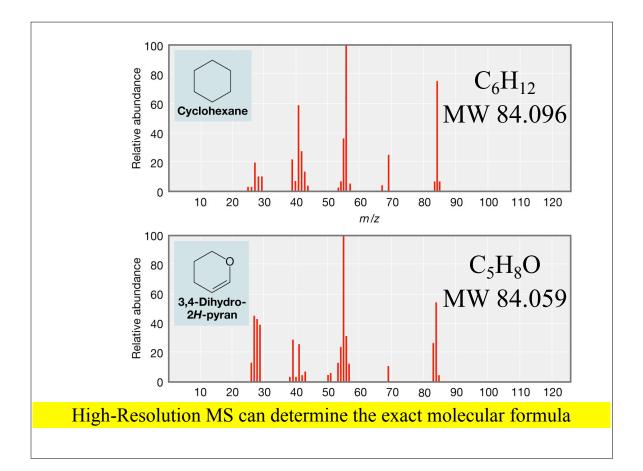
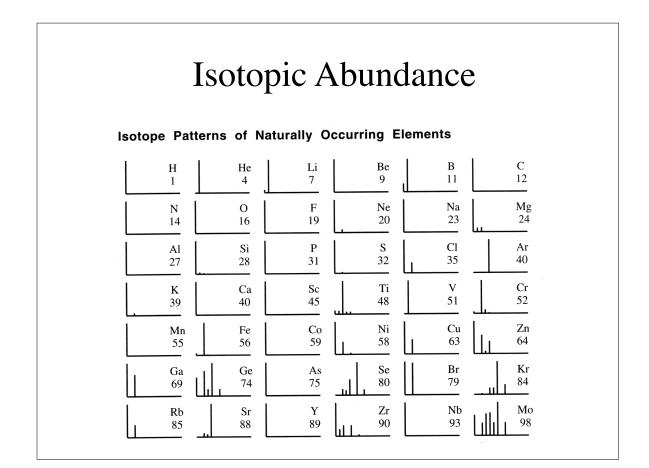


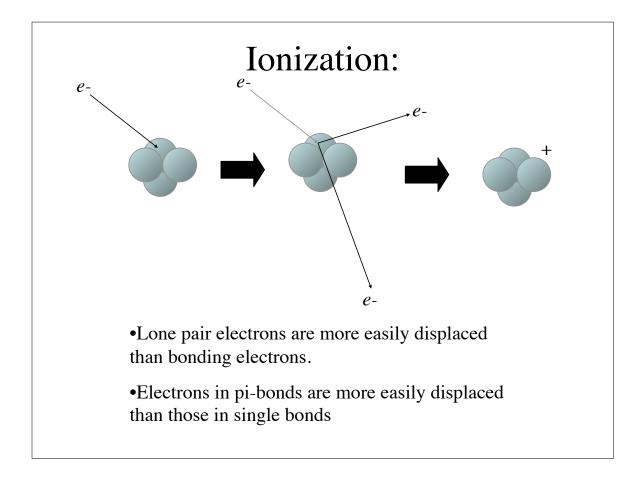


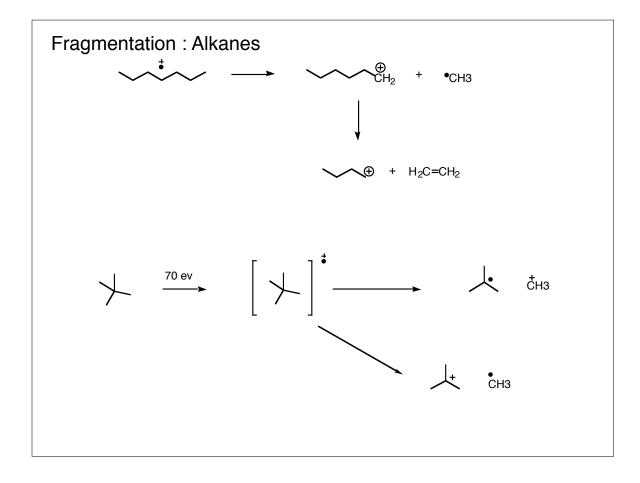
Isotope	Abundance	Isotope	Abundance	
¹ H	99.985	¹⁷ O	0.038	
² H (D)	0.015	¹⁸ O	0.200	
¹² C	98.90	³⁵ Cl	75.77	
¹³ C	1.10	³⁷ Cl	24.23	
¹⁴ N	99.63	⁷⁹ Br	50.69	
¹⁵ N	0.37	⁸¹ Br	49.31	
¹⁶ O	99.762	¹²⁷ I	100	
E 15.1 Some Common Isotopes and Their Abundances			Organic Chemistry, 3rd Editic Copyright © 2005 W. W. Norton & Comp	

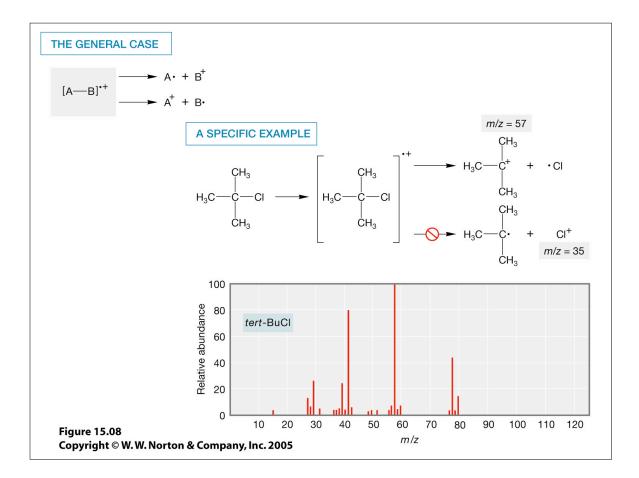


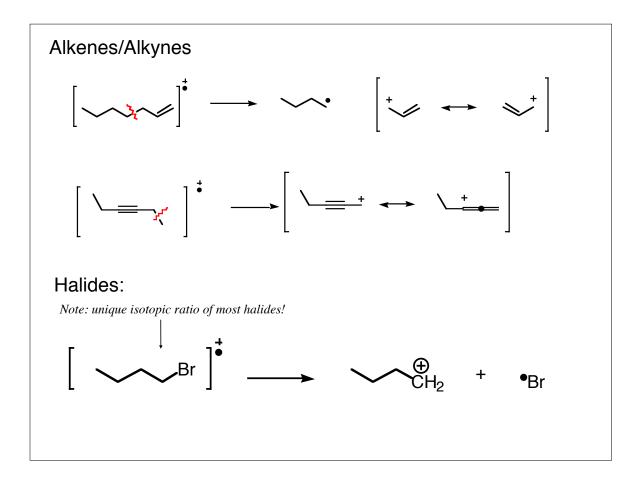


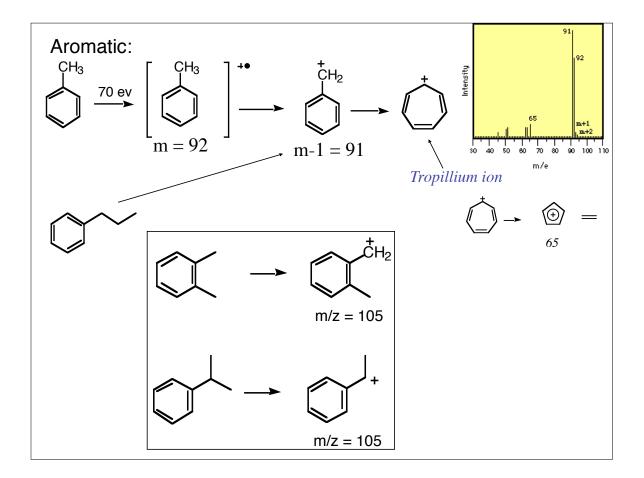


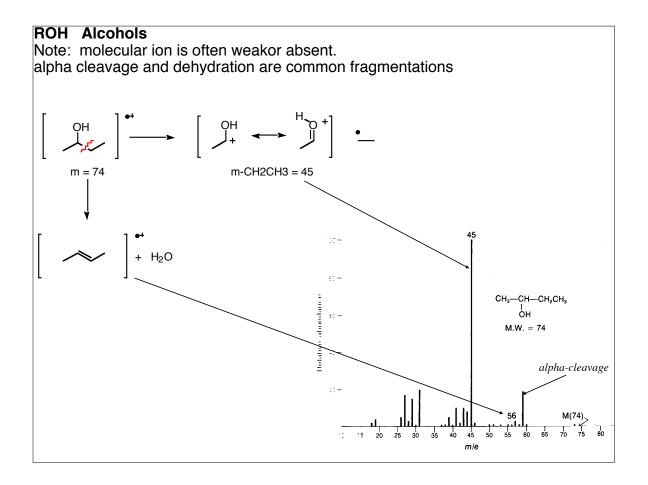


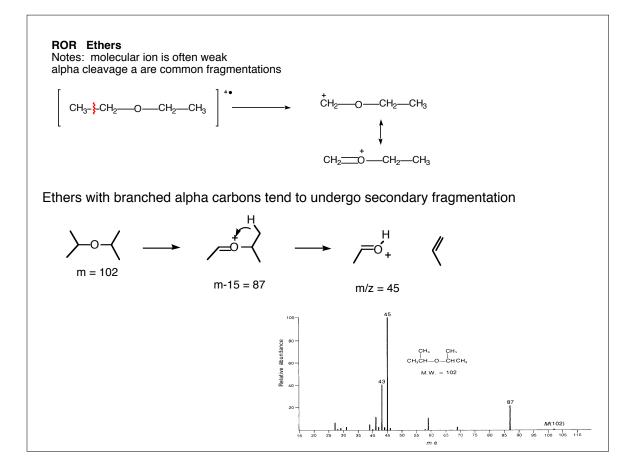


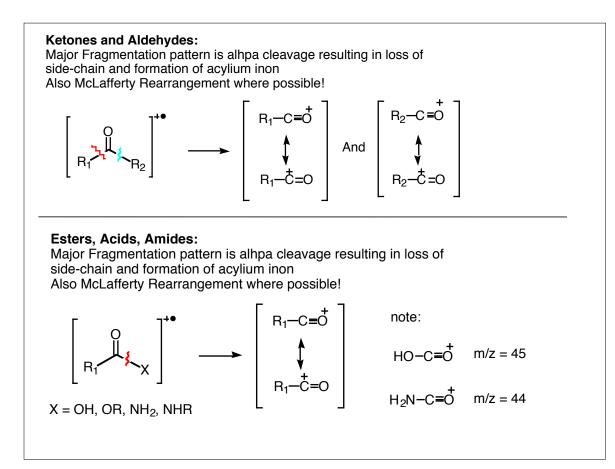


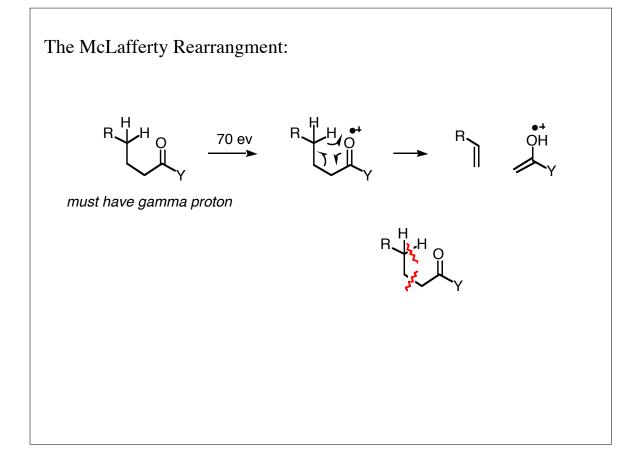


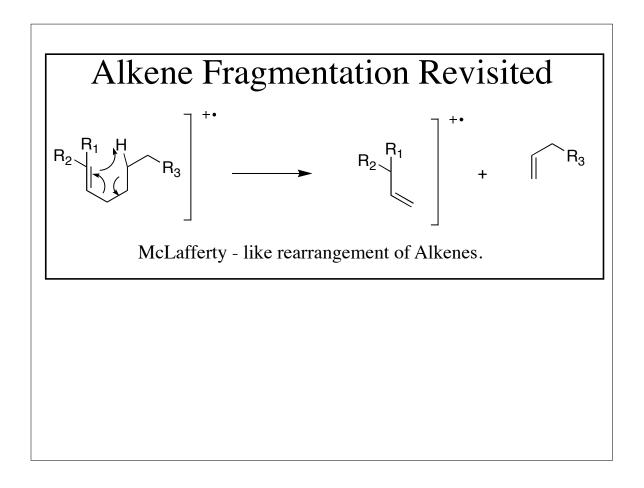


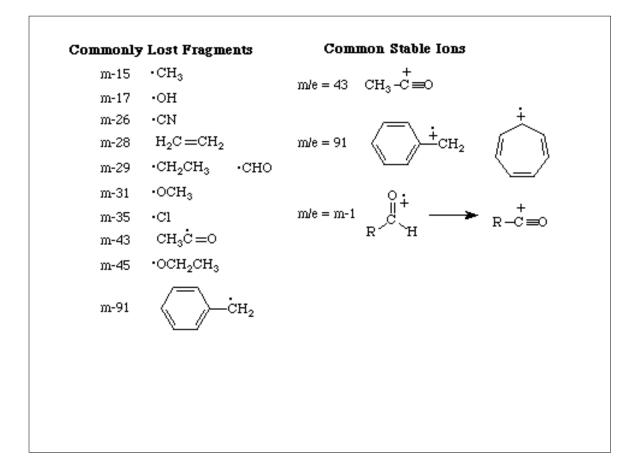


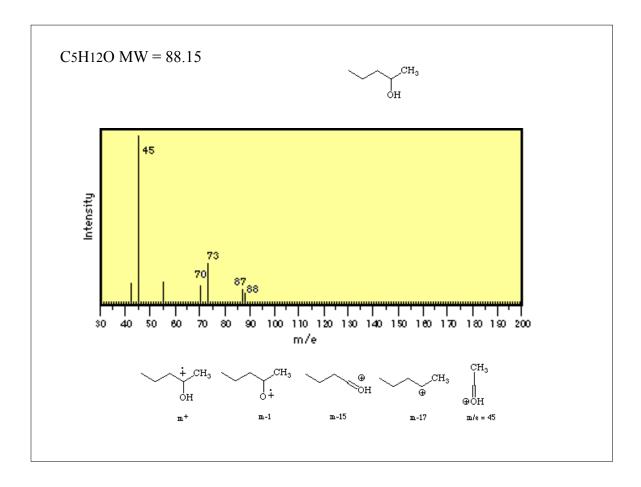


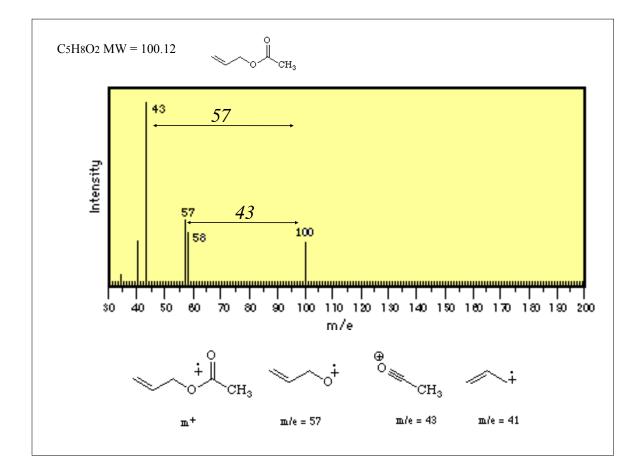


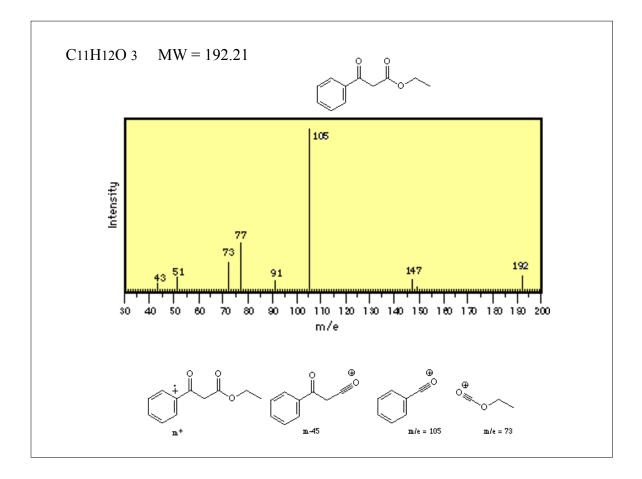


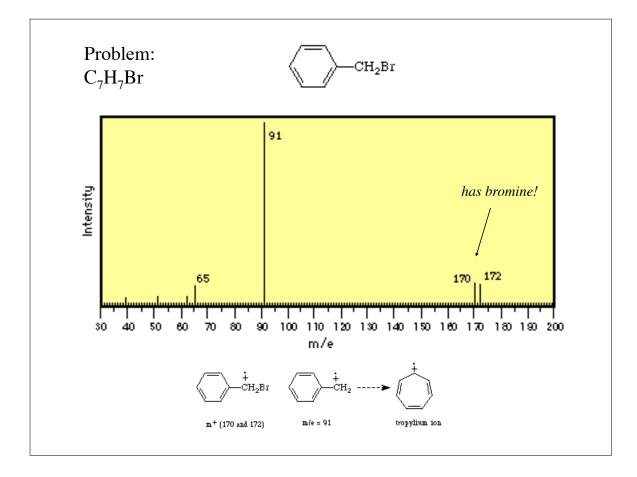


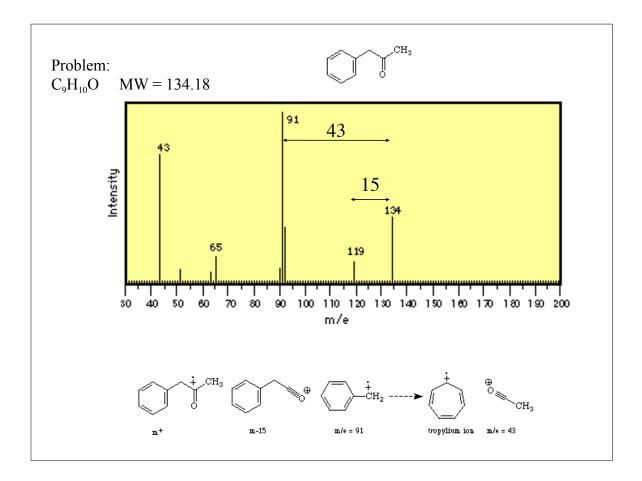


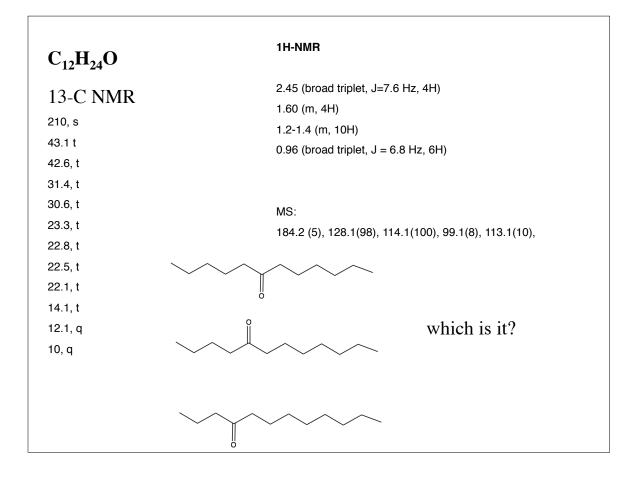


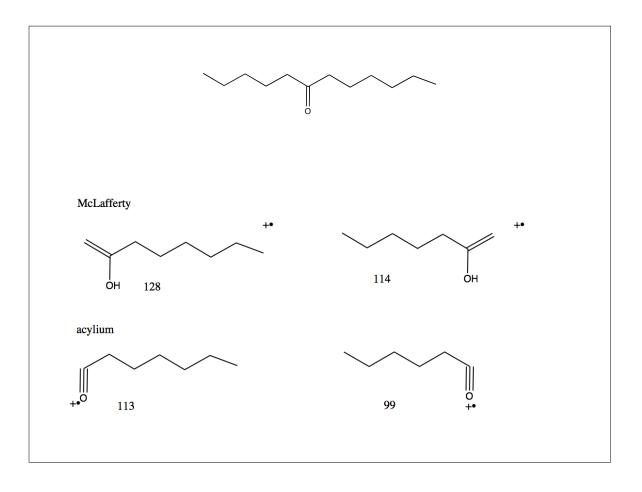


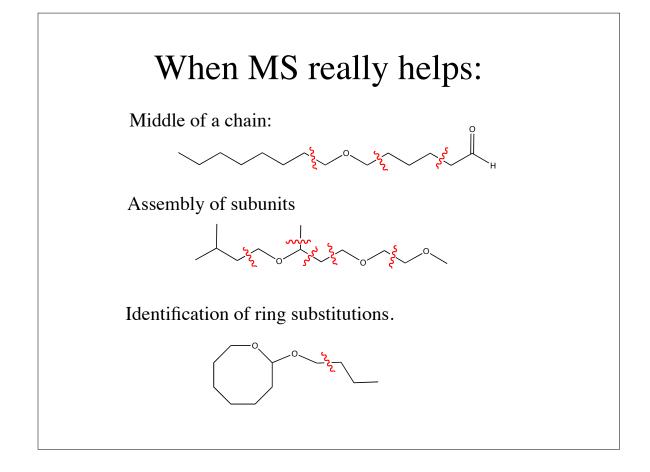


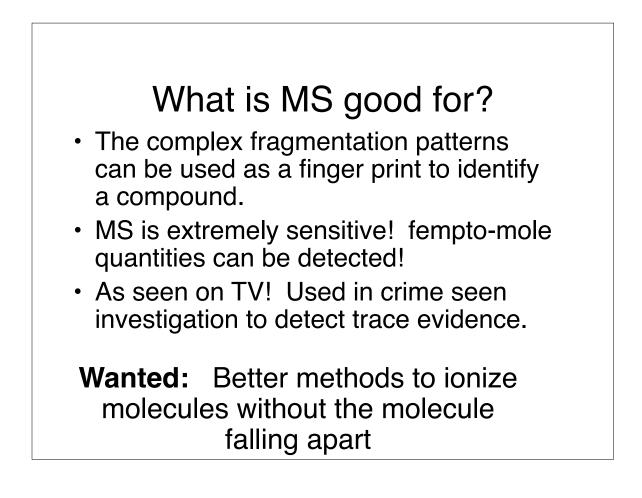












Ionization Methods

- Electron Impact. High velocity electrons.
- Chemical Ionization: A carrier gas (eg Methane) is activated by EI. Radical cations protonate analyte.
- Fast Atom Bombardment: High Energy Atoms (Xe or AR) strike a sample leading to desorption and ionization.
- Electrospray Formation of charged liquid Droplets which lose solvent to form ionized molecules.
- MALDI (Matrix Assisted Laser Desobtion) Sample dissolved in organic matrix that absorbs light energy from high-intensity laser.

