

TABLE 1.3 Relative Isotope Abundances of Common Elements.

Elements	Isotope	Relative Abundance	Isotope	Relative Abundance	Isotope	Relative Abundance
Carbon	¹² C	100	¹³ C	1.11		
Hydrogen	¹ H	100	² H	0.016		
Nitrogen	¹⁴ N	100	¹⁵ N	0.38		
Oxygen	¹⁶ O	100	¹⁷ O	0.04	¹⁸ O	0.2
Fluorine	¹⁹ F	100				
Silicon	²⁸ Si	100	²⁹ Si	5.1	³⁰ Si	3.35
Phosphorus	³¹ P	100				
Sulfur	³² S	100	³³ S	0.78	³⁴ S	4.4
Chlorine	³⁵ Cl	100			³⁷ Cl	32.5
Bromine	⁷⁹ Br	100			⁸¹ Br	98
Iodine	¹²⁷ I	100				

TABLE 1.5 Intensities of Isotope Peaks (Relative to the Molecular Ion) for Combination of Chlorine and Bromine.

Halogen Present	% M+2	% M+4	% M+6	% M+8	% M+10	% M+12
Cl	32.6					
Cl ₂	65.3	10.6				
Cl ₃	97.8	31.9	3.5			
Cl ₄	131.0	63.9	14.0	1.2		
Cl ₅	163.0	106.0	34.7	5.7	0.4	
Cl ₆	196.0	161.0	69.4	17.0	2.2	0.1
Br	97.9					
Br ₂	195.0	95.5				
Br ₃	293.0	286.0	93.4			
BrCl	130.0	31.9				
BrCl ₂	163.0	74.4	10.4			
Br ₂ Cl	228.0	159.0	31.2			