

Table 3. Line Positions from Mg X-rays, in Numerical Order

17 Hf4f ₇	(2)	102 Si2p ₃	(1)	206 Nb3d ₅	(3)	359 Lu 4p ₃	(53)	575 Te3d ₅	(10)	863 Ne 1s	
23 O 2s		105 Ga3p ₃	(3)	208 Kr3p ₃	(8)	359 Hg4d ₅	(20)	577 Cr2p ₃	(9)	872 Cd (A)	
25 Ta4f ₇	(2)	108 Ce4d ₅	(4)	213 Hf4d ₅	(11)	362 Gd (A)		594 Ce (A)		875 N (A)	
30 F 2s		110 Rb3d ₅	(1)	229 S 2s		364 Nb3p ₃	(15)	599 F (A)		882 Ce3d ₅	(18)
31 Ge3d ₅	(1)	113 Be 1s		229 Ta4d ₅	(12)	368 Ag3d ₅	(6)	618 Cd3p ₃	(34)	897 Ag (A)	
34 W4f ₇	(2)	113 Ge (A)		230 Mo3d ₅	(3)	378 K 2s		619 I3d ₅	(11)	920 Sc (A)	
40 V 3p		114 Pr 4d		238 Rb3p ₃	(9)	380 U4f ₇	(11)	632 La (A)		928 Pd (A)	
41 Ne 2s		118 Tl4f ₇	(4)	241 Ar2p ₃	(2)	385 Tl4d ₅	(21)	641 Mn2p ₃	(11)	930 Pr3d ₅	(20)
43 Re4f ₇	(2)	119 Al 2s		245 W4d ₅	(12)	396 Mo3p ₃	(17)	657 Ba (A)		934 Cu2p ₃	(20)
44 As3d ₅	(1)	120 Nd 4d		263 Re4d ₅	(14)	402 N 1s		666 In3p ₃	(38)	954 Rh (A)	
45 Cr3p ₃	(1)	124 Ge3p ₃	(4)	264 Na (A)		402 Eu (A)		670 Mn (A)		961 Ca (A)	
48 Mn3p ₃	(1)	132 Sm 4d		265 Zn (A)		402 Sc2p ₃	(5)	672 Xe3d ₅	(13)	970 U (A)	
50 I4d ₅	(2)	133 P2p ₃	(1)	269 Sr3p ₃	(11)	405 Cd3d ₅	(7)	677 Th4d ₅	(37)	980 Nd3d ₅	(21)
51 Mg 2p		133 Sr3d ₅	(2)	270 Cl 2s		410 Ni (A)		684 Cs (A)		981 Ru (A)	
52 Os4f ₇	(3)	136 Eu 4d		279 Os4d ₅	(15)	413 Pb4d ₅	(22)	686 F 1s		993 C (A)	
55 Fe3p ₃	(1)	138 Pb4f ₇	(5)	282 Ru3d ₅	(4)	435 Ne (A)		710 Fe2p ₃	(13)	1003 K (A)	
56 Li 1s		143 As3p ₃	(5)	284 Tb 4p ₃	(33)	439 Ca 2s		711 Xe (A)		1005 Th (A)	
57 Se3d ₅	(1)	150 Tb 4d		287 C 1s		440 Sm (A)		715 Sn3p ₃	(42)	1022 Zn2p ₃	(23)
61 Co3p ₃	(2)	153 Si 2s		293 Dy 4p ₃	(36)	443 Bi4d ₅	(24)	724 Cs3d ₅	(14)	1035 Ar (A)	
62 Ir4f ₇	(3)	154 Dy 4d		293 K 2p ₃	(3)	445 In3d ₅	(8)	729 Cr (A)		1071 Cl (A)	
63 Xe4d ₅	(2)	158 Y3d ₅	(2)	297 Ir4d ₅	(16)	458 Ti2p ₃	(6)	737 I (A)		1072 Na 1s	
64 Na 2s		159 Bi4f ₇	(5)	301 Y3p ₃	(12)	463 Ru3p ₃	(22)	739 U4d ₅	(42)	1082 B (A)	
67 Ni3p ₃	(2)	161 Ho 4d		306 Ho4p ₃	(39)	483 Co (A)		743 O (A)		1083 Sm3d ₅	(27)
69 Br3d ₅	(1)	163 Se3p ₃	(6)	309 Rh3d ₅	(5)	486 Sn3d ₅	(8)	765 Te (A)		1088 Nb (A)	
73 Pt4f ₇	(3)	165 S2p ₃	(1)	316 Pt4d ₅	(17)	498 Rh3p ₃	(24)	768 Sb3p ₃	(46)	1103 S (A)	
74 Al 2p		169 Er 4d		319 Ar 2s		501 Sc 2s		780 Ba3d ₅	(15)	1117 Ga2p ₃	(27)
75 Cs4d ₅	(2)	180 Tm 4d		320 Er 4p ₃	(42)	515 V2p ₃	(8)	781 Co2p ₃	(15)	1136 Eu3d ₅	(30)
77 Cu3p ₃	(2)	181 Zr3d ₅	(2)	331 Zr3p ₃	(14)	519 Nd (A)		784 V (A)		1155 Bi (A)	
85 Au4f ₇	(4)	182 Br3p ₃	(7)	333 Tm 4p ₃	(45)	530 Sb3d ₅	(9)	794 Sb (A)		1162 Pb (A)	
87 Zn3p ₃	(3)	185 Yb4d ₅	(9)	335 Th4f ₇	(9)	531 O 1s		819 Sn (A)		1169 Tl (A)	
88 Kr3d ₅	(1)	189 Ga (A)		336 Au4d ₅	(18)	534 Pd3p ₃	(27)	822 Te3p ₃	(51)	1176 Hg (A)	
90 Ba4d ₅	(2)	191 B 1s		337 Pd3d ₅	(5)	553 Fe (A)		834 La3d ₅	(17)	1184 Au (A)	
90 Mg 2s		191 P 2s		337 Cu (A)		555 Pr (A)		839 Ti (A)		1186 Gd3d ₅	(33)
100 Hg4f ₇	(4)	197 Lu 4d ₅	(10)	342 Yb 4p ₃	(50)	565 Ti 2s		846 In (A)		1192 Pt (A)	
101 La4d ₅	(3)	199 Cl 2p ₃	(2)	347 Ca2p ₃	(3)	573 Ag3p ₃	(31)	855 Ni2p ₃	(18)		

An A in parentheses denotes Auger line. Numbers in parentheses are spin doublet separations in electron volts. The sharpest Auger line and the two most intense photoelectron lines per element are included in the table. For brevity, 2p₃ equals 2p_{3/2}, 3d₅ equals 3d_{5/2}, etc.