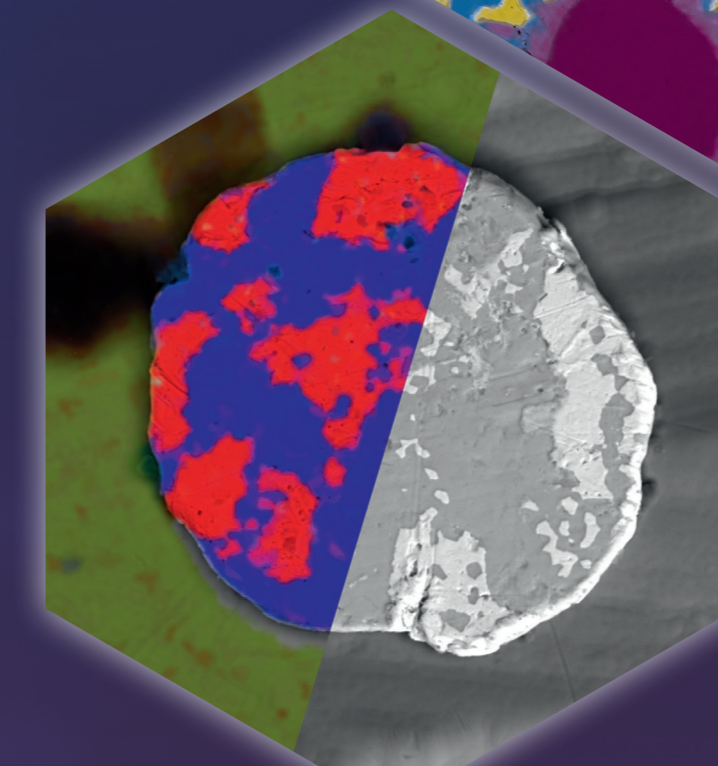
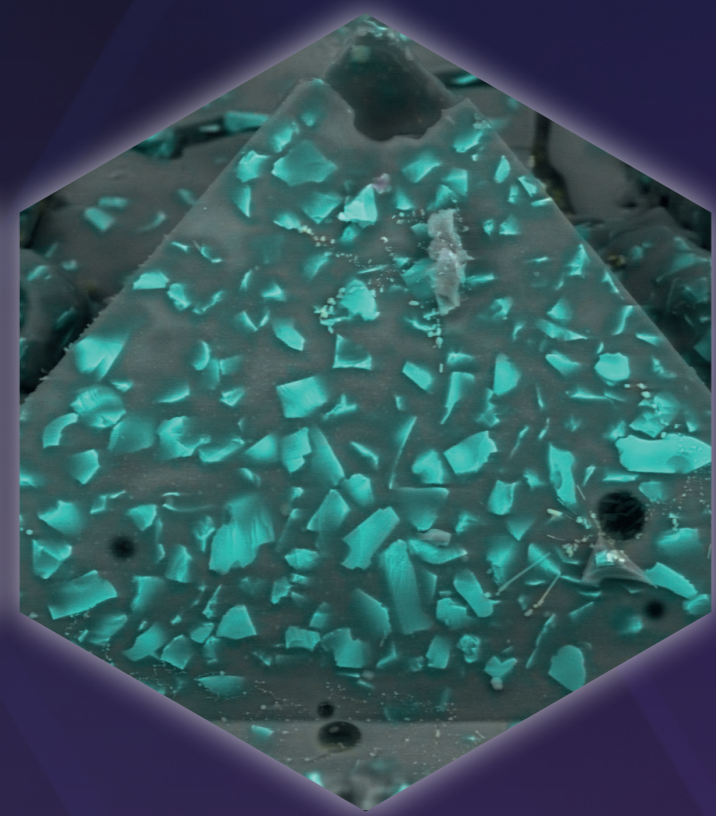
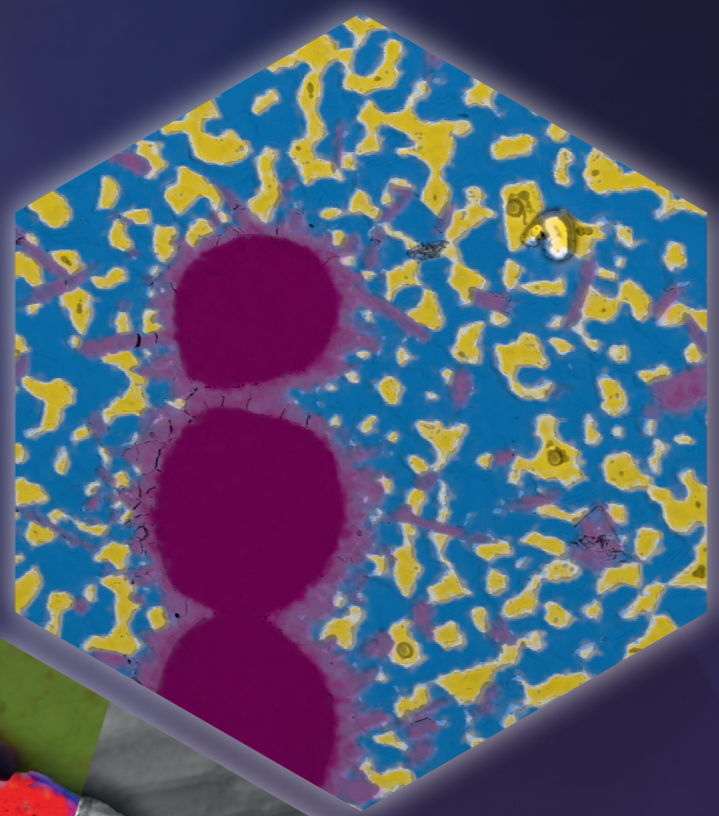
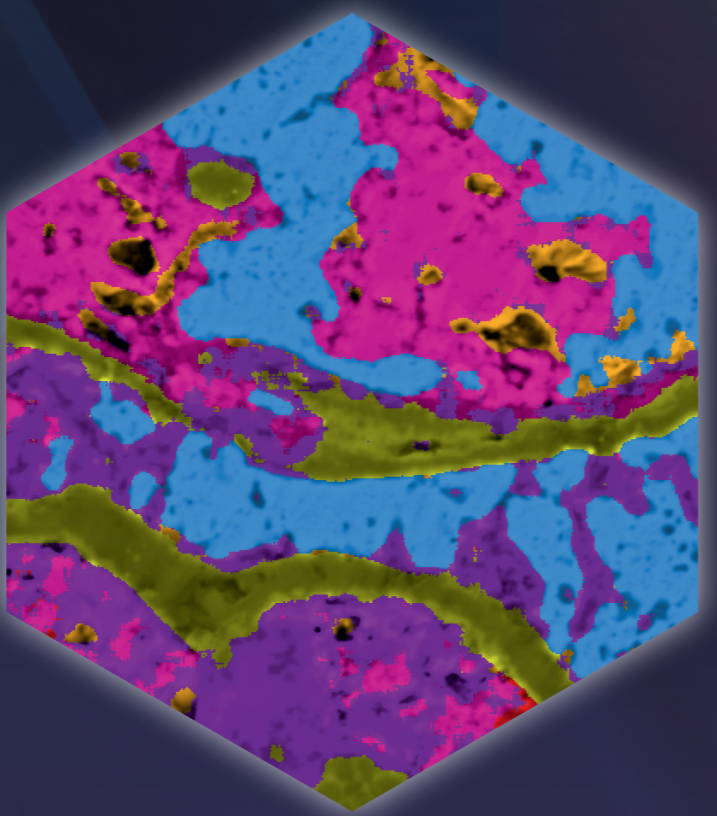
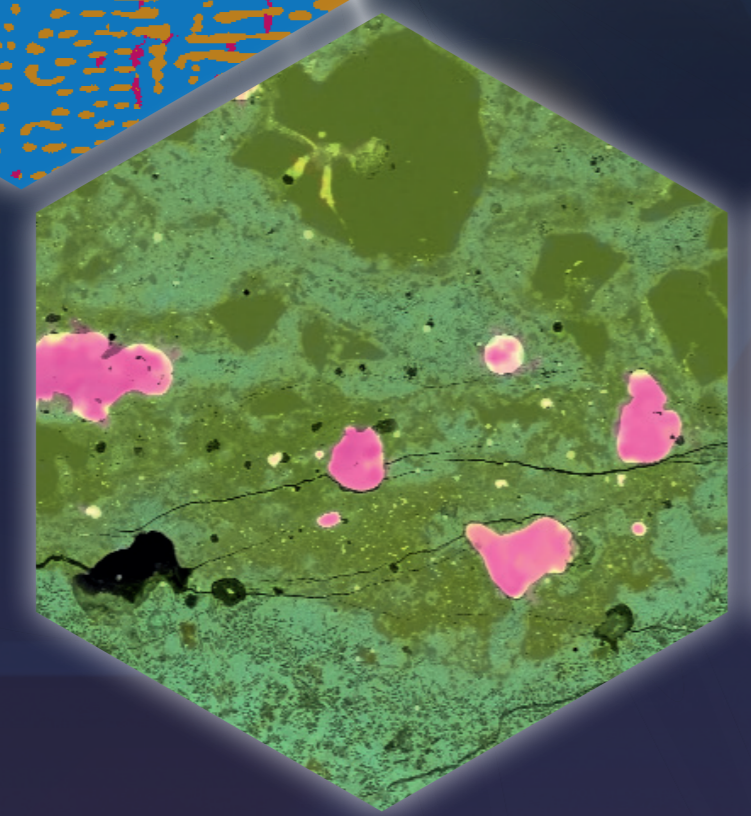


Periodic Table

Hydrogen H 1 1.01	Preferred X-ray family for analysis * When using a 15 kV accelerating voltage K-Lines M-Lines L-Lines No Characteristic X-rays																Helium He 2 4.00																	
Lithium Li 3 6.94	Beryllium Be 4 9.01 Ka 0.108	Carbon C 6 12.01 Ka 0.277	Boron B 5 10.81 Ka 0.183	Nitrogen N 7 14.01 Ka 0.392	Oxygen O 8 16.00 Ka 0.525	Fluorine F 9 19.00 Ka 0.677	Neon Ne 10 20.18 Ka 0.849	Sodium Na 11 22.99 Ka 1.040	Magnesium Mg 12 24.31 Ka 1.254	Aluminum Al 13 26.98 Ka 1.486	Silicon Si 14 28.09 Ka 1.740	Phosphorus P 15 30.97 Ka 2.010	Sulfur S 16 32.06 Ka 2.309	Chlorine Cl 17 35.45 Ka 2.622	Argon Ar 18 39.95 Ka 2.958	Crystal Structure Cubic, face centered Cubic, body centered Cubic Orthorhombic Monoclinic Tetragonal Rhombohedral Hexagonal	Potassium K 19 39.10 Ka 3.314	Calcium Ca 20 40.08 Ka 3.692 La 0.341	Scandium Sc 21 44.96 Ka 4.093 La 0.395	Titanium Ti 22 47.90 Ka 4.512 La 0.452	Vanadium V 23 50.94 Ka 4.953 La 0.510	Chromium Cr 24 52.00 Ka 5.415 La 0.572	Manganese Mn 25 54.94 Ka 5.890 La 0.637	Iron Fe 26 55.85 Ka 6.405 La 0.705	Cobalt Co 27 58.93 Ka 6.931 La 0.775	Nickel Ni 28 58.69 Ka 7.480 La 0.849	Copper Cu 29 63.55 Ka 8.046 La 0.928	Zinc Zn 30 65.38 Ka 8.637 La 1.012	Gallium Ga 31 69.72 Ka 9.251 La 1.098	Germanium Ge 32 72.63 Ka 9.886 La 1.188	Arsenic As 33 74.92 Ka 10.543 La 1.282	Selenium Se 34 78.96 Ka 11.224 La 1.379	Bromine Br 35 79.90 Ka 11.924 La 1.481	Krypton Kr 36 83.80 Ka 12.648 La 1.585
Rubidium Rb 37 85.47 Ka 13.396 La 1.692	Strontium Sr 38 87.62 Ka 14.165 La 1.806	Yttrium Y 39 88.91 Ka 14.958 La 1.924	Zirconium Zr 40 91.22 Ka 15.775 La 2.044	Niobium Nb 41 92.91 Ka 16.615 La 2.169	Molybdenum Mo 42 95.96 Ka 17.480 La 2.292	Technetium Tc 43 (98) Ka 18.367 La 2.423	Ruthenium Ru 44 101.07 Ka 19.279 La 2.558	Rhodium Rh 45 102.91 Ka 20.216 La 2.697	Palladium Pd 46 106.42 Ka 21.177 La 2.838	Silver Ag 47 107.87 Ka 22.163 La 2.983	Cadmium Cd 48 112.41 Ka 23.173 La 3.133	Indium In 49 114.82 Ka 24.210 La 3.286	Tin Sn 50 118.71 Ka 25.271 La 3.444	Antimony Sb 51 121.76 Ka 26.359 La 3.604	Tellurium Te 52 127.60 Ka 27.473 La 3.768	Iodine I 53 126.90 Ka 28.612 La 3.938	Xenon Xe 54 131.29 Ka 29.775 La 4.110	Cesium Cs 55 132.91 Ka 30.973 La 4.285	Barium Ba 56 137.33 Ka 32.194 La 4.466	Hafnium Hf 72 178.49 Ka 7.899 Ma 1.646	Tantalum Ta 73 180.95 Ka 8.146 Ma 1.712	Tungsten W 74 183.84 Ka 8.398 Ma 1.775	Rhenium Re 75 186.21 Ka 8.652 Ma 1.843	Osmium Os 76 190.23 Ka 8.911 Ma 1.907	Iridium Ir 77 192.22 Ka 9.175 Ma 1.980	Platinum Pt 78 195.08 Ka 9.442 Ma 2.050	Gold Au 79 196.97 Ka 9.713 Ma 2.123	Mercury Hg 80 200.59 Ka 9.989 Ma 2.195	Thallium Tl 81 204.38 Ka 10.269 Ma 2.271	Lead Pb 82 207.20 Ka 10.551 Ma 2.342	Bismuth Bi 83 208.98 Ka 10.839 Ma 2.423	Polonium Po 84 (209) La 11.131 Ma 2.499	Astatine At 85 (210) La 11.427 Ma 2.577	Radon Rn 86 (222) La 11.727 Ma 2.654
Francium Fr 87 La 12.031 Ma 2.732	Radium Ra 88 (226) La 12.339 Ma 2.806	Lanthanum La 57 138.91 Ka 33.442 La 4.647	Cerium Ce 58 140.12 Ka 4.839 Ma 0.884	Praseodymium Pr 59 140.91 Ka 5.035 Ma 0.927	Neodymium Nd 60 144.24 Ka 5.228 Ma 0.979	Promethium Pm 61 (145) La 5.432 Ma 1.023	Samarium Sm 62 150.36 Ka 5.633 Ma 1.078	Europium Eu 63 151.96 Ka 5.849 Ma 1.131	Gadolinium Gd 64 157.25 Ka 6.053 Ma 1.181	Terbium Tb 65 158.93 Ka 6.273 Ma 1.240	Dysprosium Dy 66 162.50 Ka 6.498 Ma 1.293	Holmium Ho 67 164.93 Ka 6.720 Ma 1.348	Erbium Er 68 167.26 Ka 6.949 Ma 1.404	Thulium Tm 69 168.93 Ka 7.180 Ma 1.462	Ytterbium Yb 70 173.05 Ka 7.416 Ma 1.526	Lutetium Lu 71 174.97 Ka 7.655 Ma 1.580	Actinium Ac 89 (227) La 12.652 Ma 2.900	Thorium Th 90 232.04 La 12.968 Ma 2.996	Protactinium Pa 91 231.04 La 13.291 Ma 3.082	Uranium U 92 238.03 La 13.614 Ma 3.171	Neptunium Np 93 (237) La 13.946 Ma 3.250	Plutonium Pu 94 (244) La 14.282 Ma 3.339	Americium Am 95 (243) La 14.620 Ma 3.438	Curium Cm 96 (247)	Berkelium Bk 97 (247)	Californium Cf 98 (251)	Einsteinium Es 99 (252)	Fermium Fm 100 (257)	Mendelevium Md 101 (258)	Nobelium No 102 (259)	Lawrencium Lr 103 (262)			



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