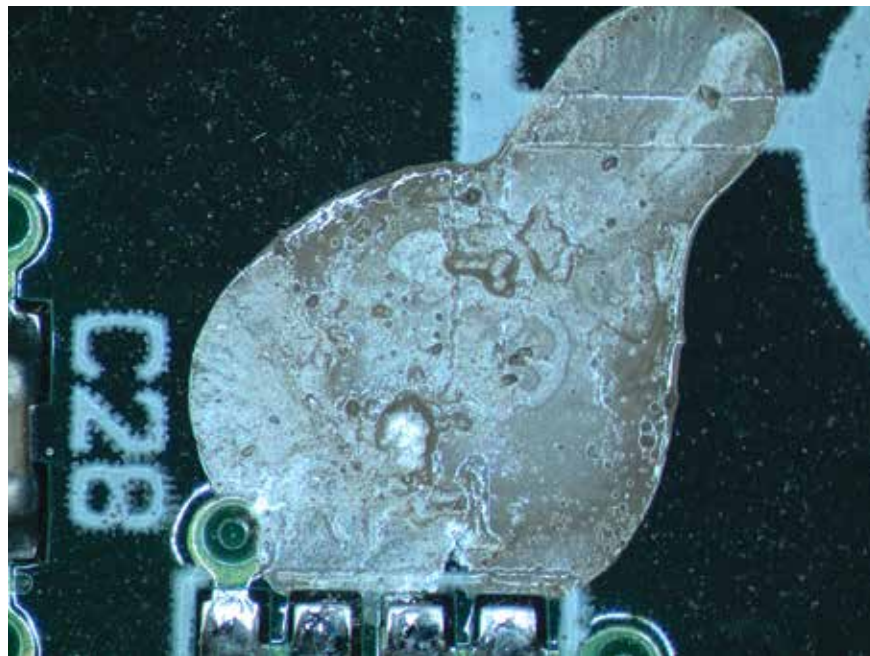


PICTURE BOOK

EDX of Contamination on PCB

Energy Dispersive X-ray spectroscopy enables determination of the elemental composition of materials. The technique is typically done in a SEM. The area analyzed is 3-5 micron deep and one-micron diameter or larger. The detection limits are 0.1 – 1 atomic percent excluding H and He.

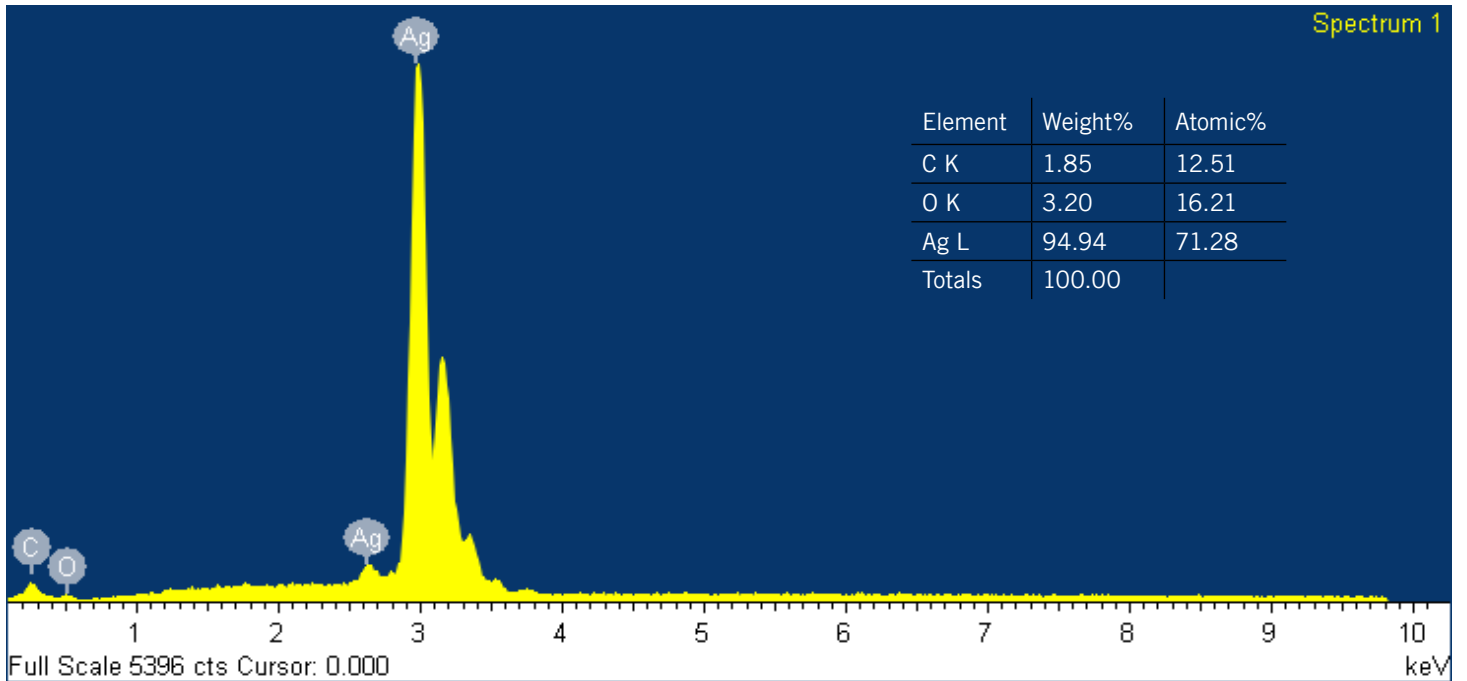


Optical image of contamination causing shorting

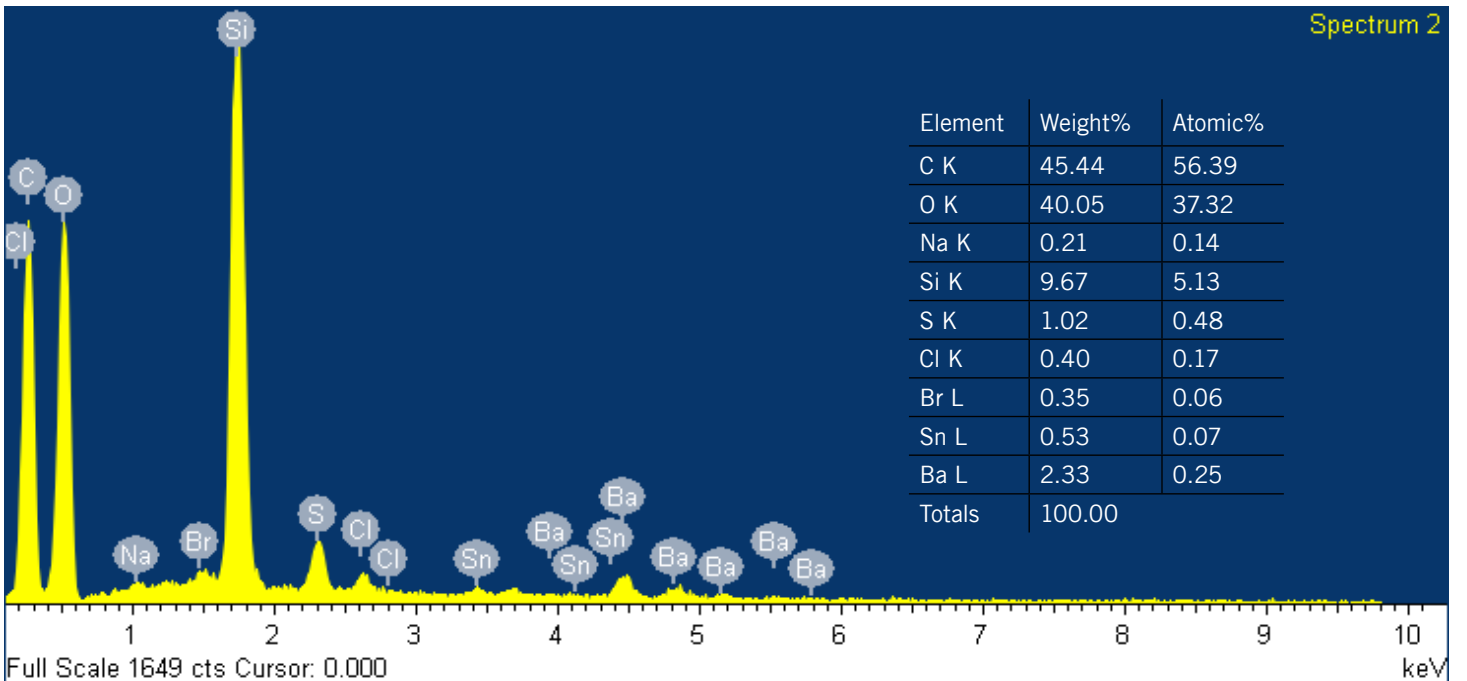


SEM image of contamination causing shorting

EDX of Contamination on PCB



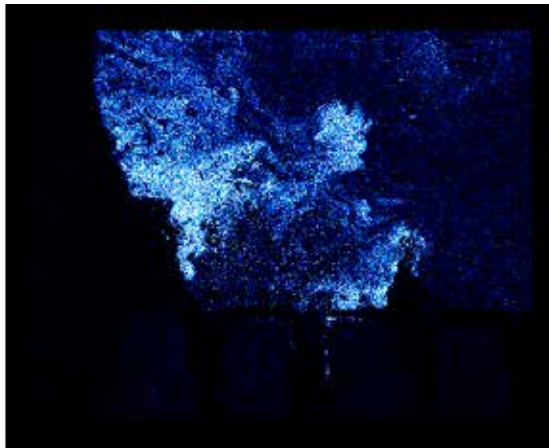
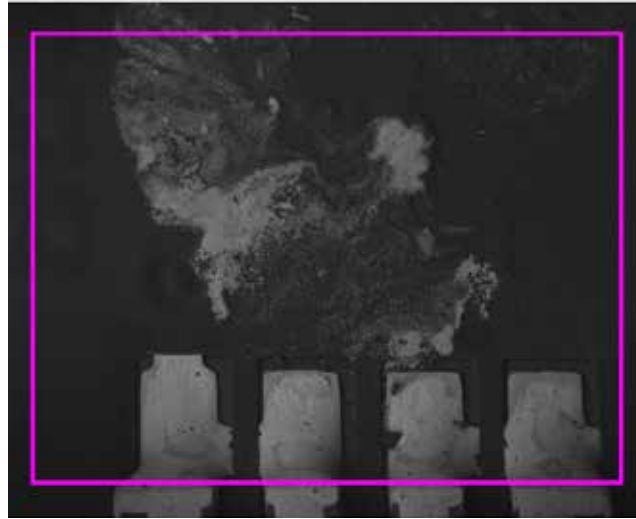
EDX spectrum showing the contamination area contains silver



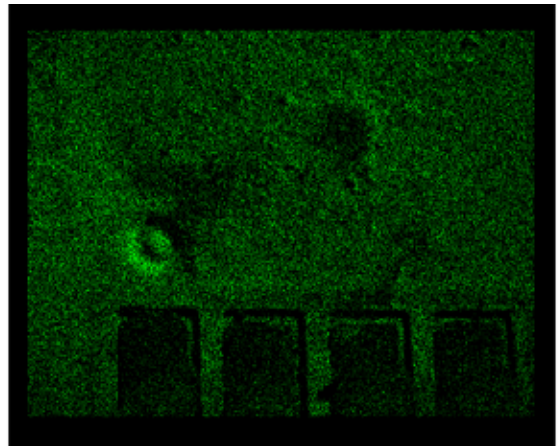
Spectrum #2 off the contamination area shows the materials the PCB contains

EDX of Contamination on PCB

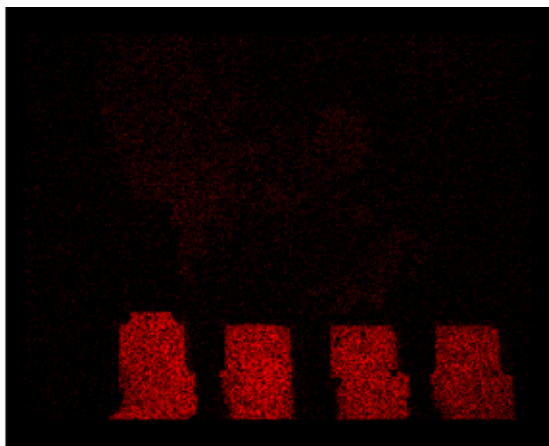
An elemental map may also be created to show where the different elements are located on the sample



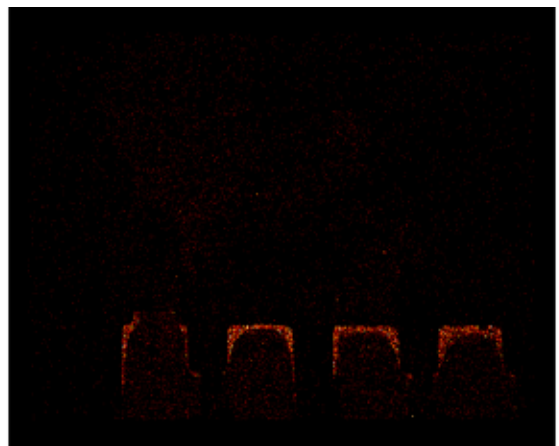
Ag La1



C Ka1_2



Sn La1



Cu Ka1