

Figure S1. SEM-EDS spectrums taken from (a) the aluminium-based solid solution (point 1), the Sn-rich phase (point 2), the Pb-Sn phase (point 3), the Sn-Pb phase (point 4) and the Al₂Cu phases (points 5 and 6) in the Al-7.6Sn alloy.

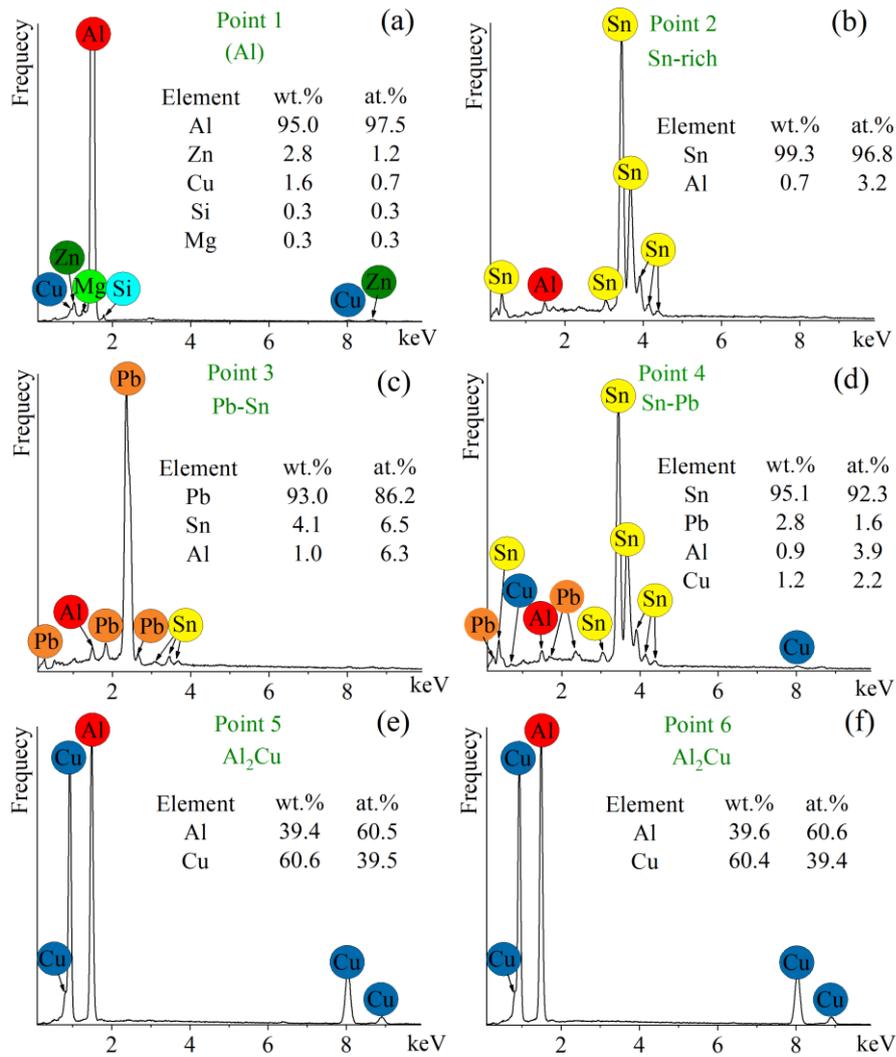


Figure S2. SEM-EDS spectrums taken from (a) the aluminium-based solid solution (point 1), the Sn-rich phase (point 2), the Pb-Sn phase (point 3), the Sn-Pb phase (point 4) and the Al_2Cu phases (points 5 and 6) in the Al-6.4Sn alloy.

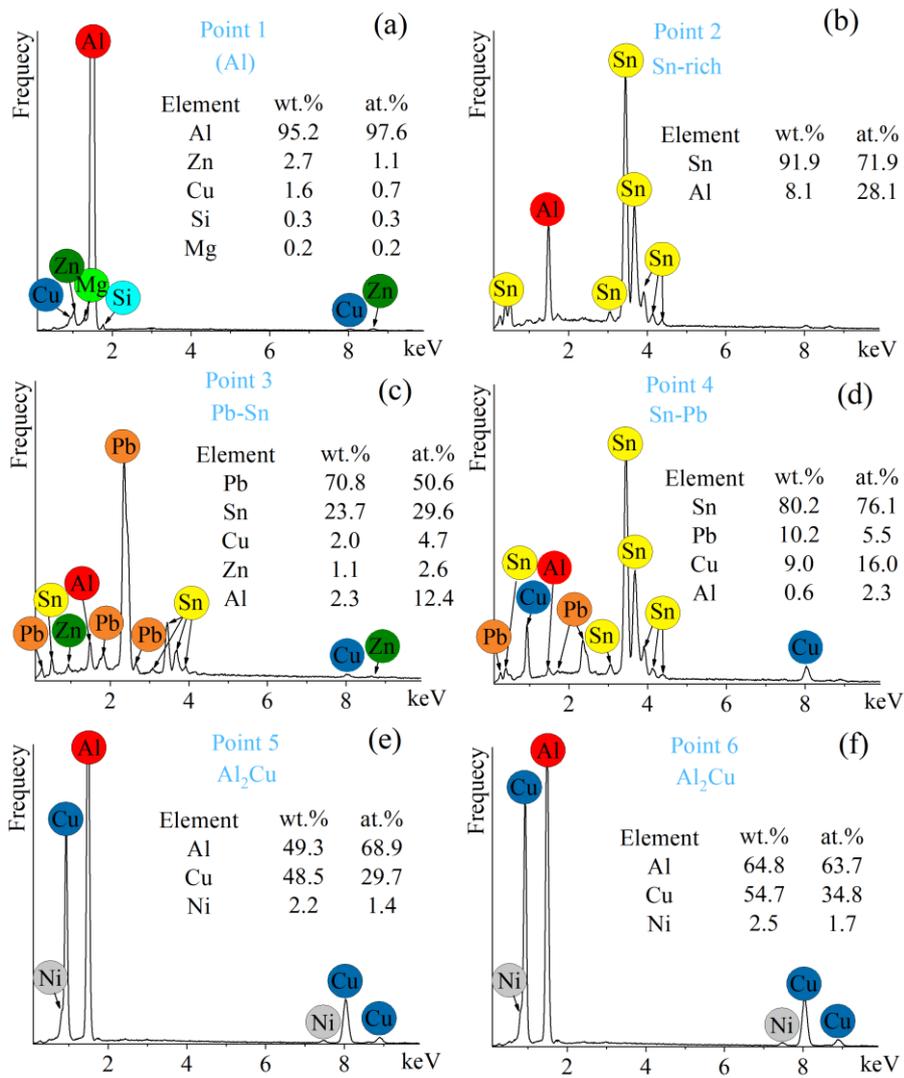


Figure S3. SEM-EDS spectrums taken from (a) the aluminium-based solid solution (point 1), the Sn-rich phase (point 2), the Pb-Sn phase (point 3), the Sn-Pb phase (point 4) and the Al₂Cu phases (points 5 and 6) in the Al-5.7Sn alloy.