

Appendix B

AFM Scan Data for Chapters 4 and 5

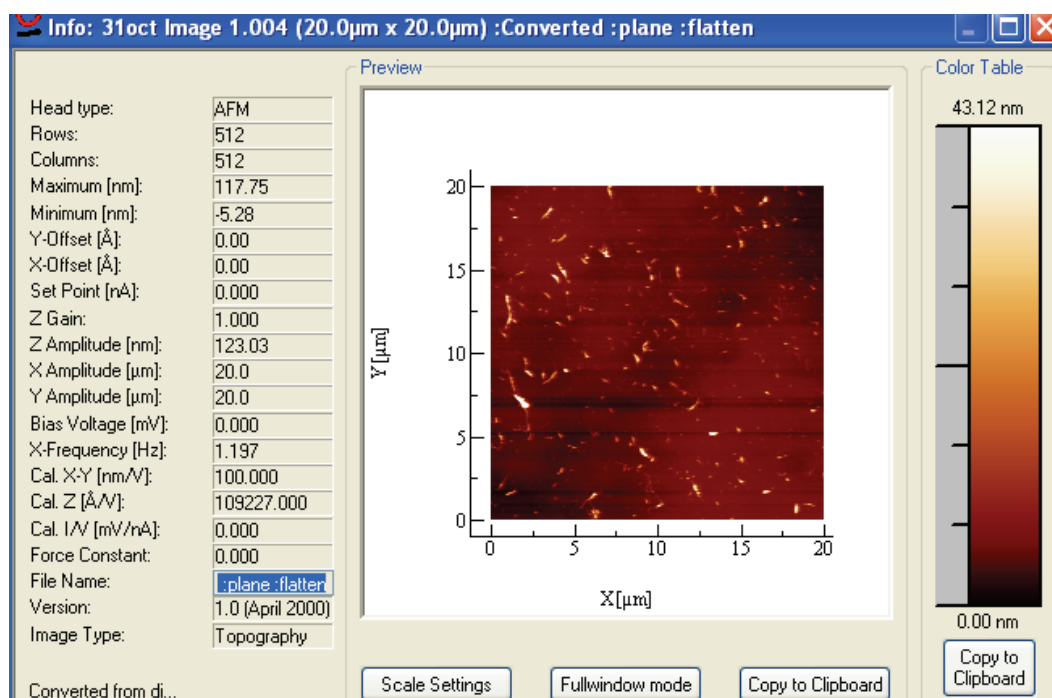


FIGURE B1: (FIGURE 4.10: 20μm x 20μm AFM IMAGE OF SWNT / [Ru(BPY)₂(PVP)₁₀Cl]Cl COMPOSITE DEPOSITED ON Si(100) SUBSTRATE.)

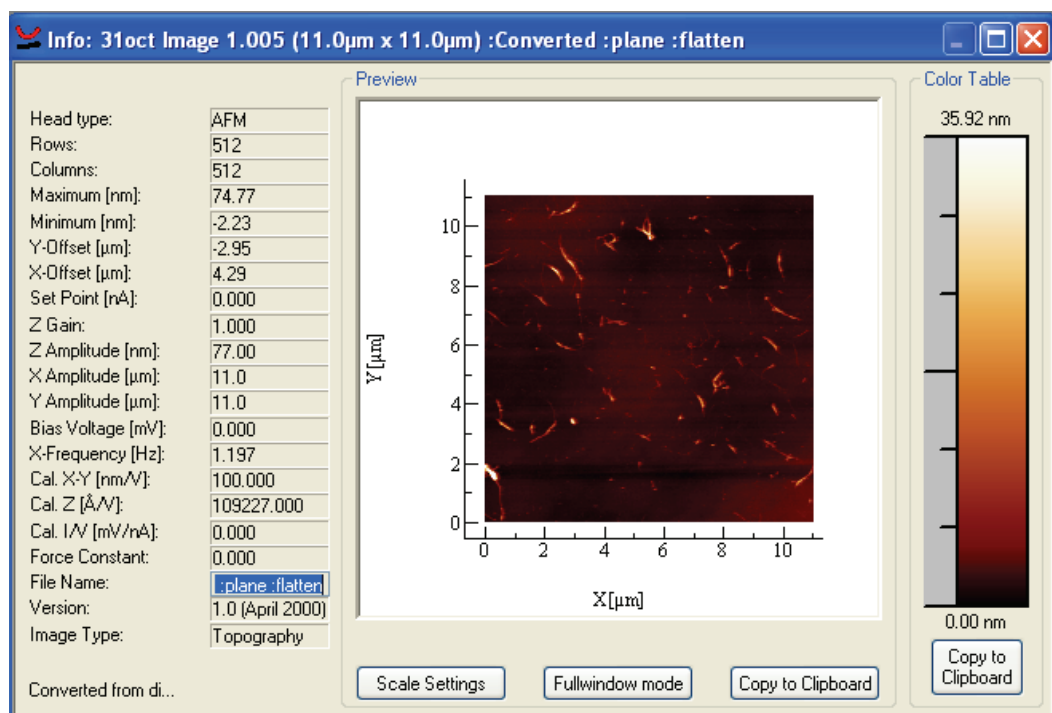


FIGURE B2: (FIGURE 4.11: 11μm x 11μm AFM IMAGE OF SWNT / [Ru(BPY)₂(PVP)₁₀Cl]Cl COMPOSITE DEPOSITED ON Si(100) SUBSTRATE.)

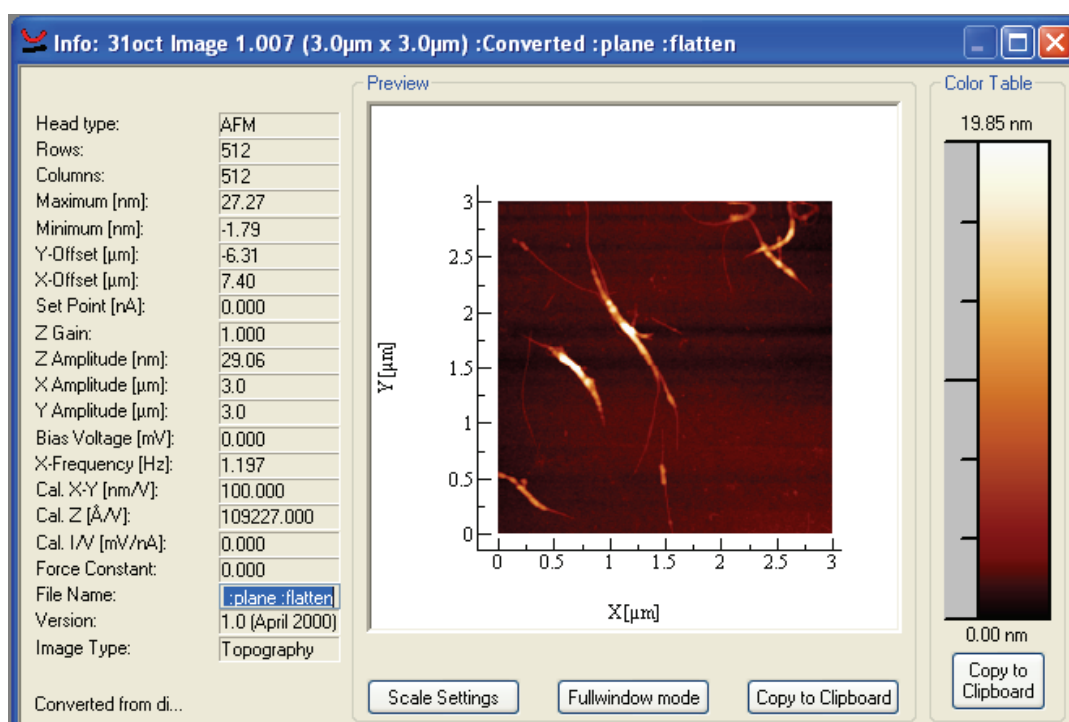


FIGURE B3: (FIGURE 4.12(A): 3μm x 3μm AFM IMAGE OF SWNT / [Ru(BPY)₂(PVP)₁₀Cl]Cl COMPOSITE DEPOSITED ON Si(100) SUBSTRATE.)

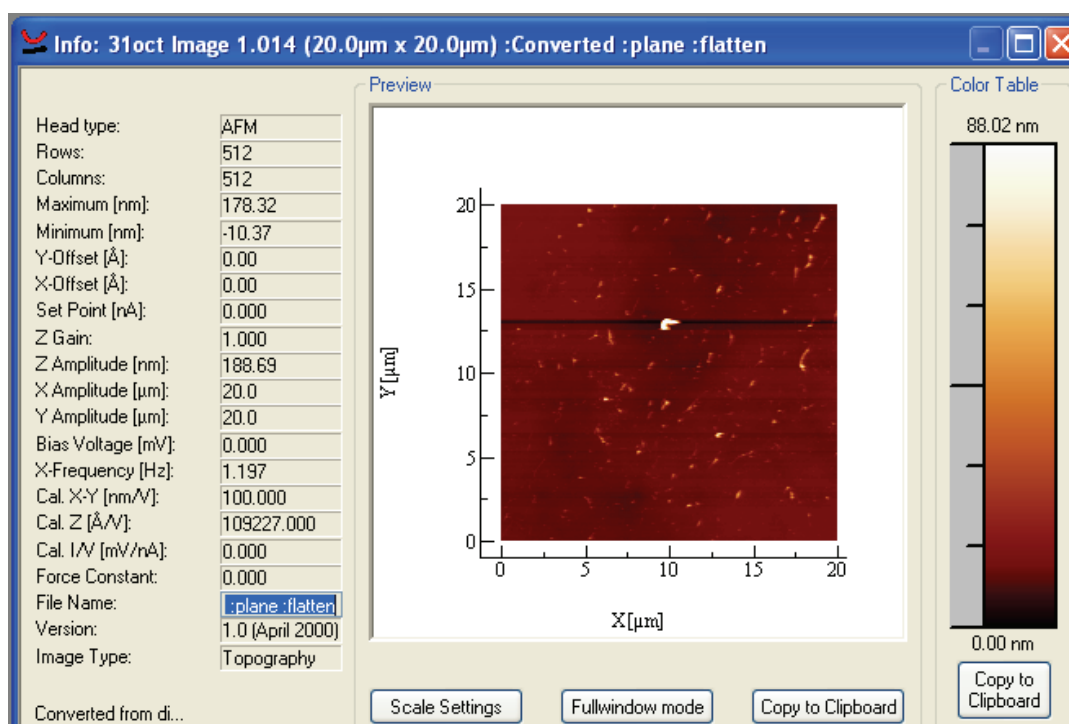


FIGURE B4: (FIGURE 4.13: 20μm x 20μm AFM IMAGE OF SWNT / [Ru(BPY)₂(PVP)₁₀Cl]Cl COMPOSITE DEPOSITED ON Si(100) SUBSTRATE.)

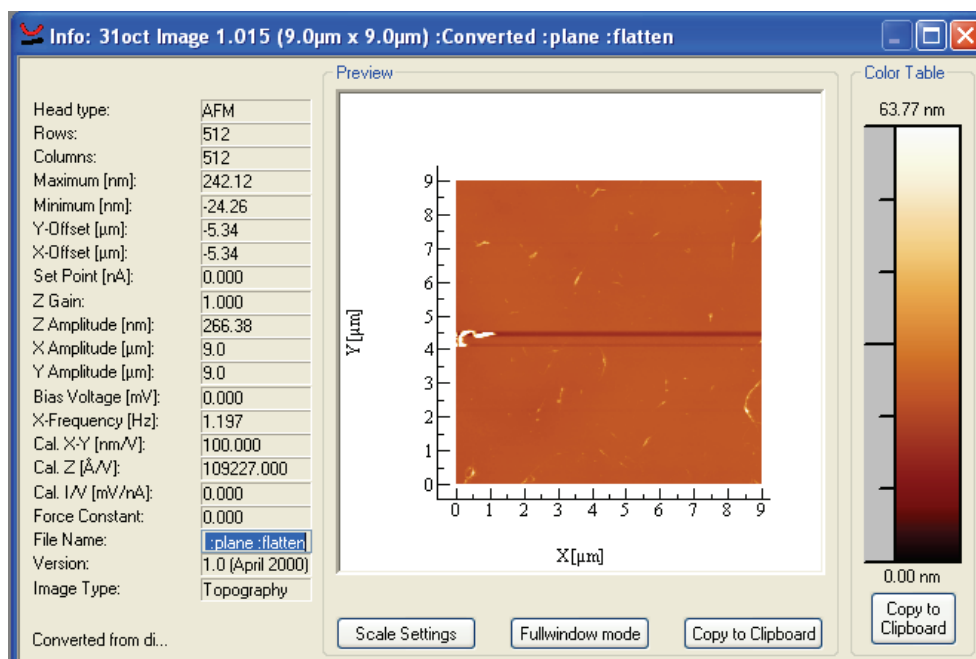


FIGURE B5: (FIGURE 4.14: 9µm x 9µm AFM IMAGE OF SWNT / [Ru(BPY)₂(PVP)₁₀Cl]Cl COMPOSITE DEPOSITED ON Si(100) SUBSTRATE.)

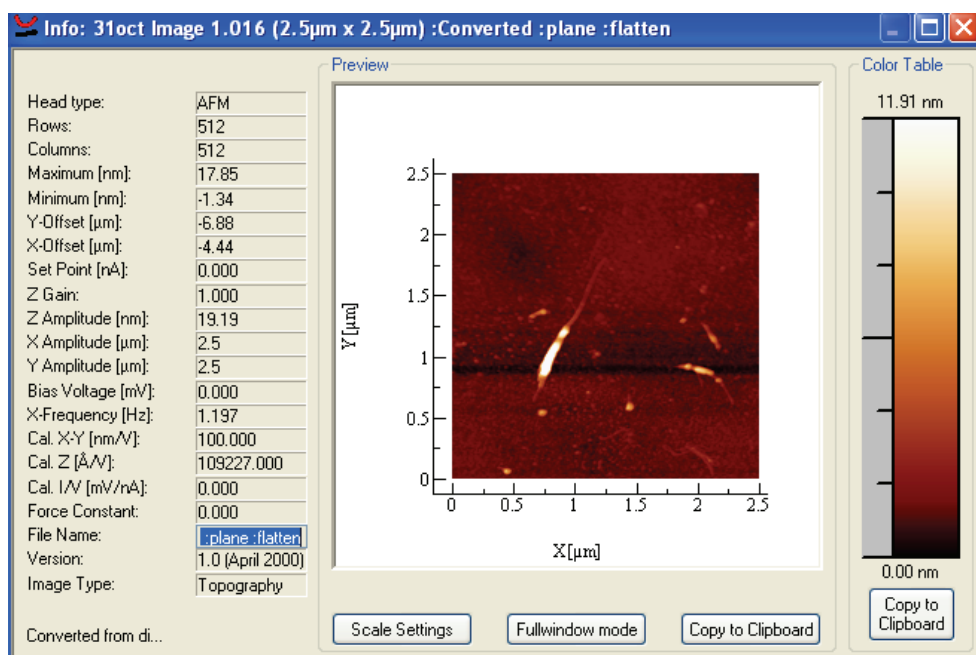


FIGURE B6: (FIGURE 4.15: 2.5µm x 2.5µm AFM IMAGE OF SWNT / [Ru(BPY)₂(PVP)₁₀Cl]Cl COMPOSITE DEPOSITED ON Si(100) SUBSTRATE.)

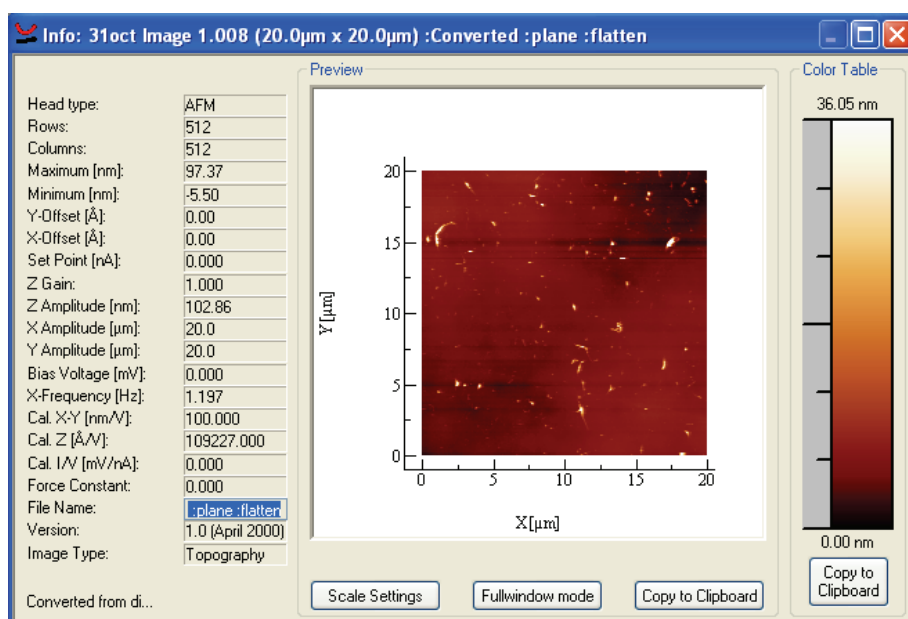


FIGURE B7: (FIGURE 4.16: 20µm x 20µm AFM IMAGE OF SWNT / [Ru(BPY)₂(PVP)₁₀Cl]Cl COMPOSITE DEPOSITED ON Si(100) SUBSTRATE.)

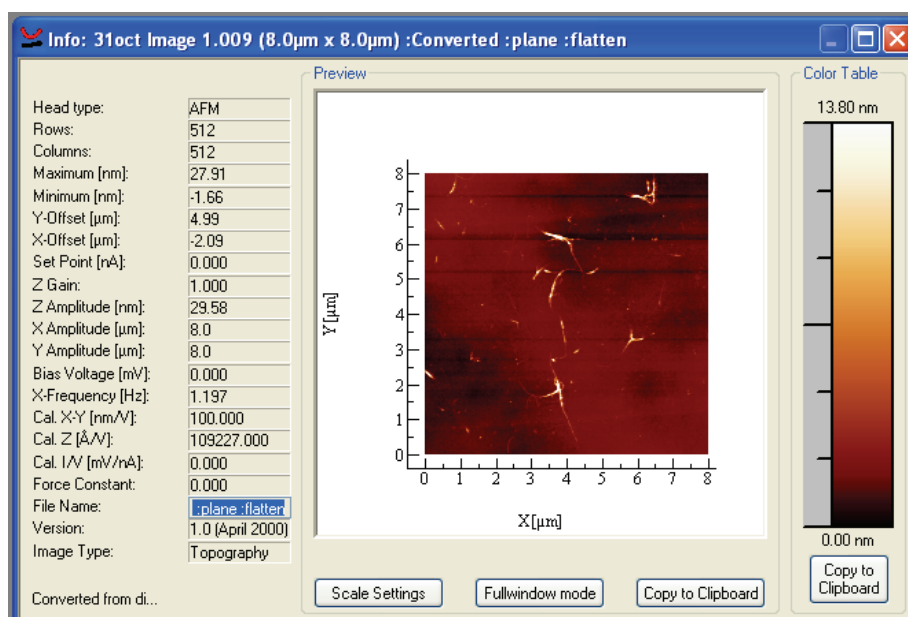


FIGURE B8: (FIGURE 4.17: 8µm x 8µm AFM IMAGE OF SWNT / [Ru(BPY)₂(PVP)₁₀Cl]Cl COMPOSITE DEPOSITED ON Si(100) SUBSTRATE.)

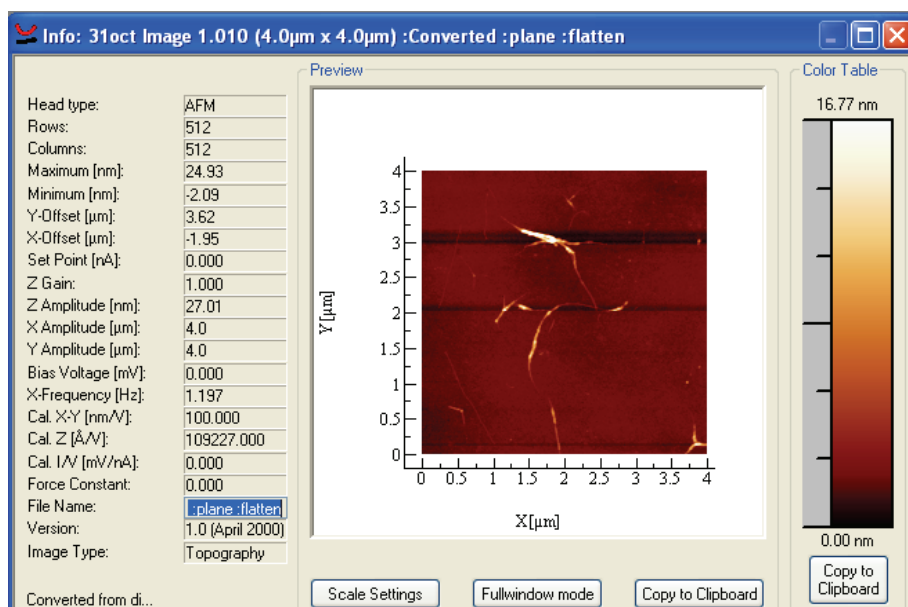


FIGURE B9: (FIGURE 4.18: 4μm x 4μm AFM IMAGE OF SWNT / [Ru(BPY)₂(PVP)₁₀Cl]Cl COMPOSITE DEPOSITED ON Si(100) SUBSTRATE.)

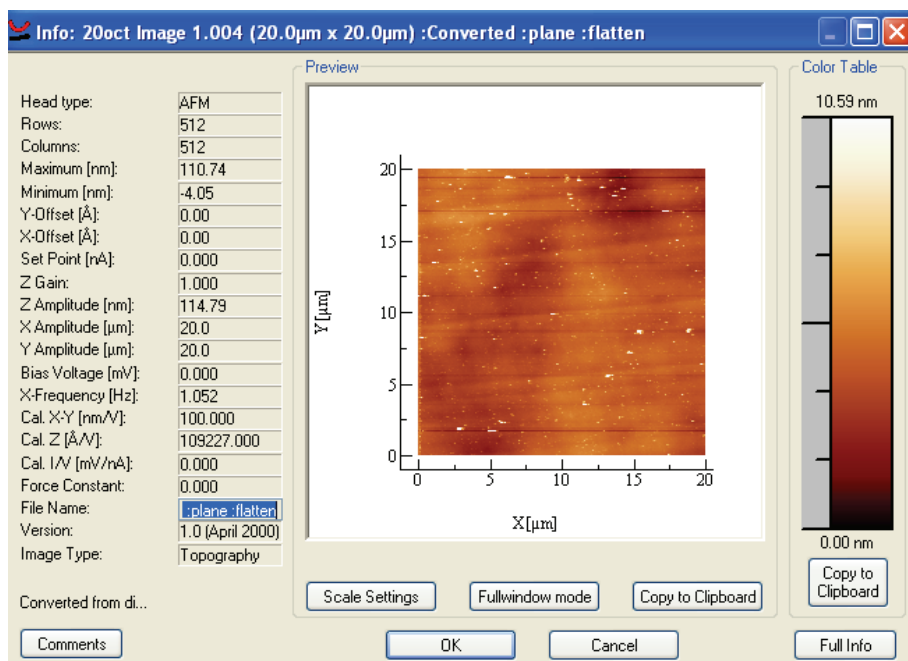


FIGURE B10: (FIGURE 4.20: 20μm x 20μm AFM IMAGE OF A BARE SILICON SURFACE, CLEANED, WITHOUT COMPOSITE DEPOSITED.)

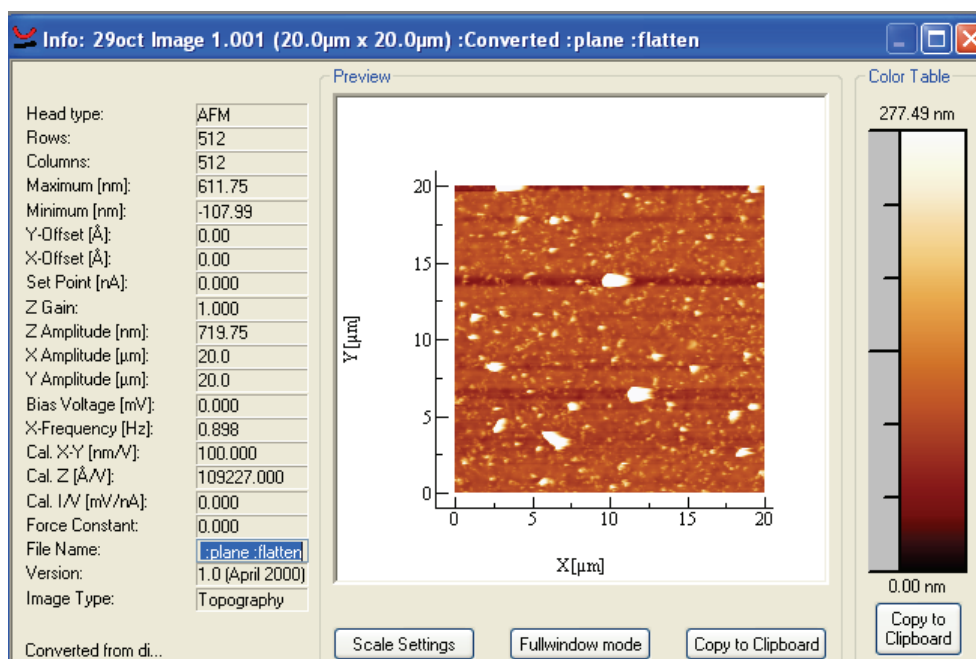


FIGURE B11: (FIGURE 5.12: 20µm x 20µm AFM SCAN OF THE CNT / RU POLYMER COMPOSITE SOLUTION DROP CAST ON TO A Si(100) SLIDE.)

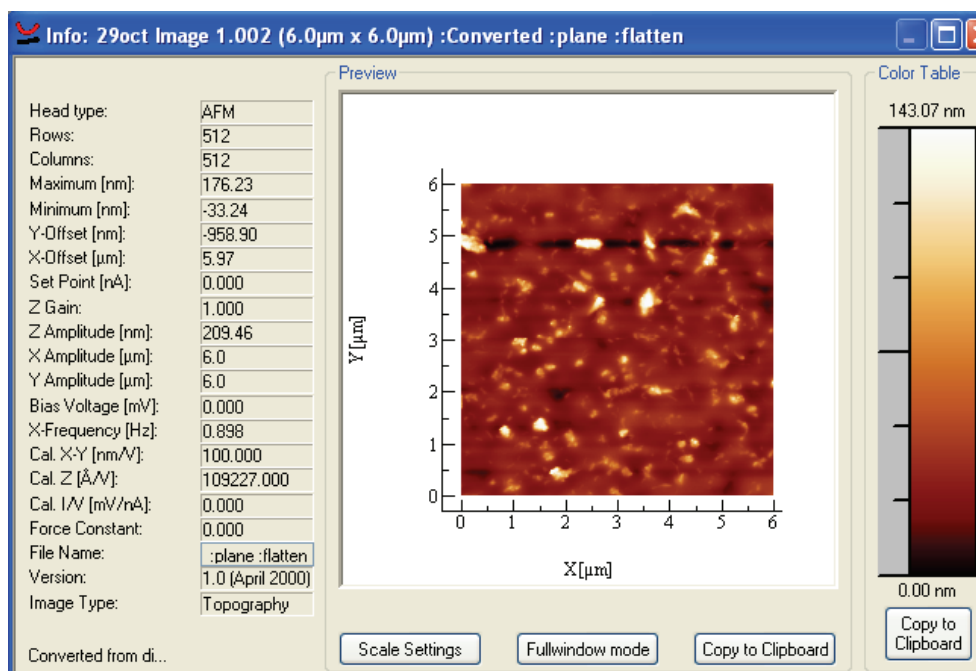


FIGURE B12: (FIGURE 5.13: 6µm x 6µm AFM SCAN.)

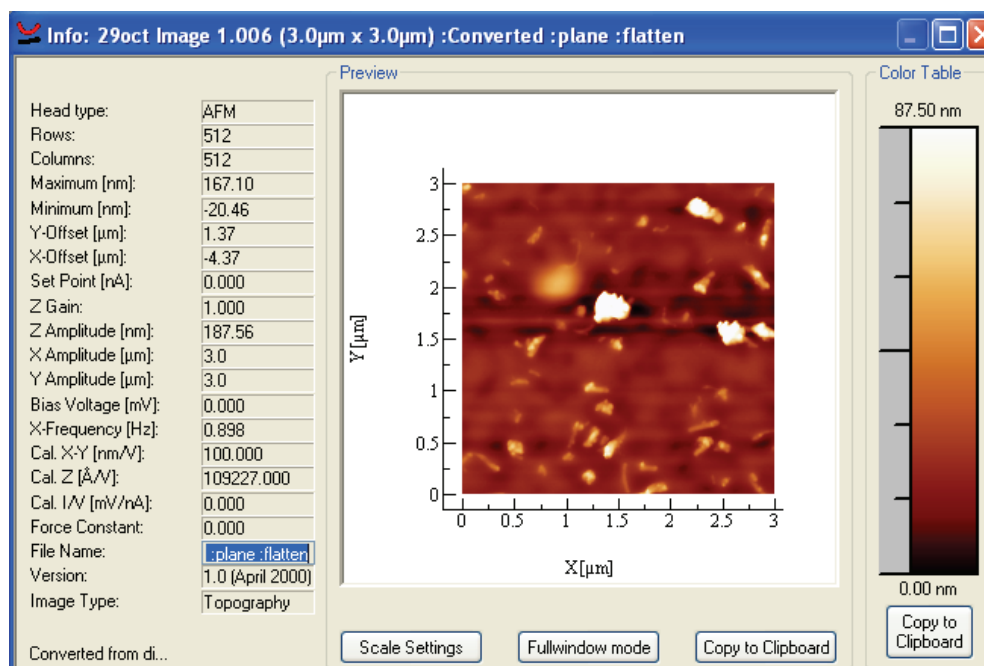


FIGURE B13: (FIGURE 5.14(A): 3µm x 3µm AFM SCAN OF THE SURFACE, SHOWING WHAT APPEAR TO BE NANOTUBE-LIKE FEATURES.)

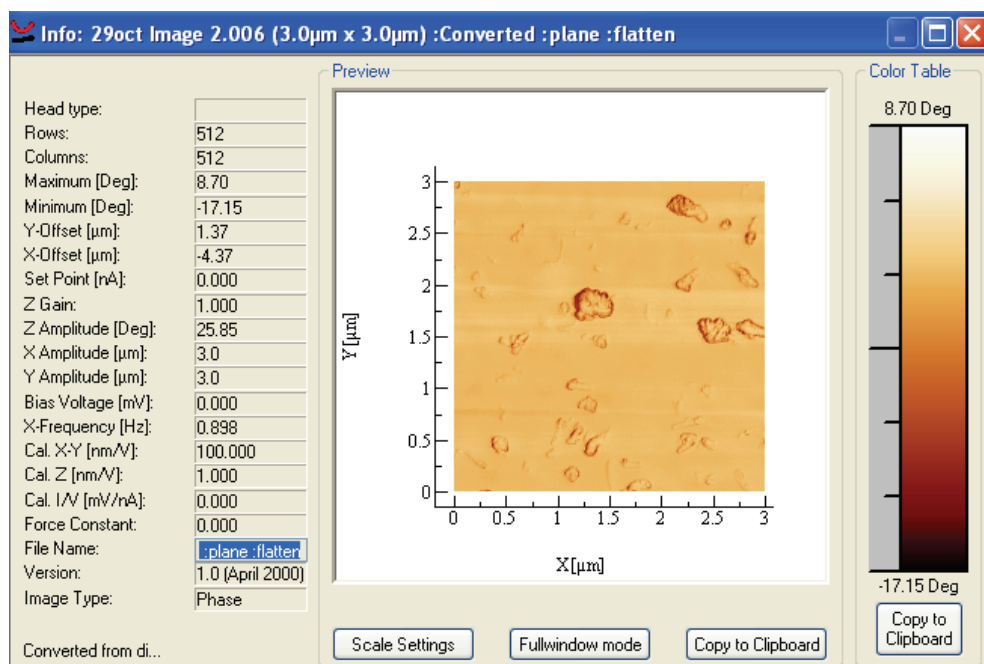


FIGURE B14: (FIGURE 5.14(B): 9µm x 9µm AFM PHASE IMAGE OF SWNT / [Ru(BPY)₂(PVP)₁₀Cl]Cl COMPOSITE DEPOSITED ON Si(100) SUBSTRATE.)

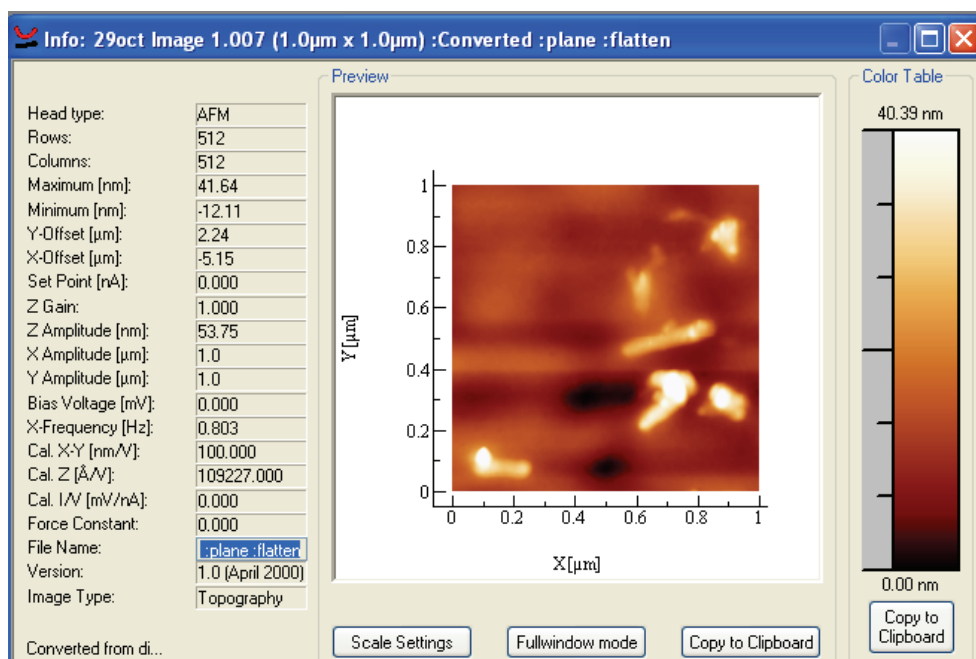


FIGURE B15: (FIGURE 5.15(A): 3µm x 3µm AFM SCAN OF THE SURFACE, SHOWING WHAT APPEAR TO BE NANOTUBE-LIKE FEATURES.)

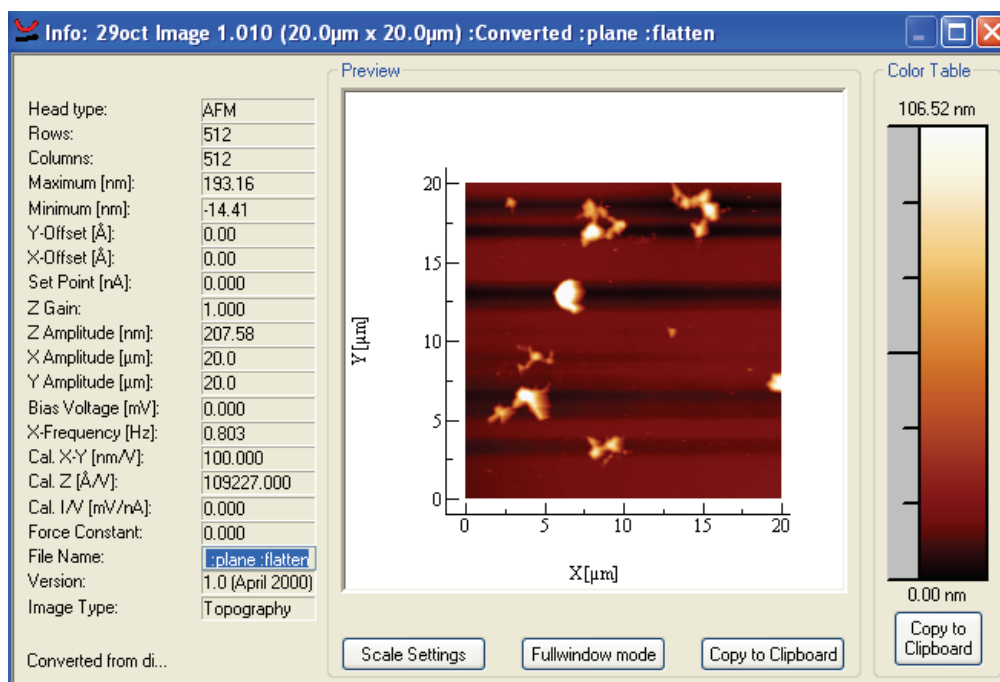


FIGURE B16: (FIGURE 5.16: 20µm x 20µm AFM IMAGE OF THE RUTHENIUM POLYMER (2MG IN 10ML PARENT SOLUTION) DEPOSITED ON Si(100) SUBSTRATE.)

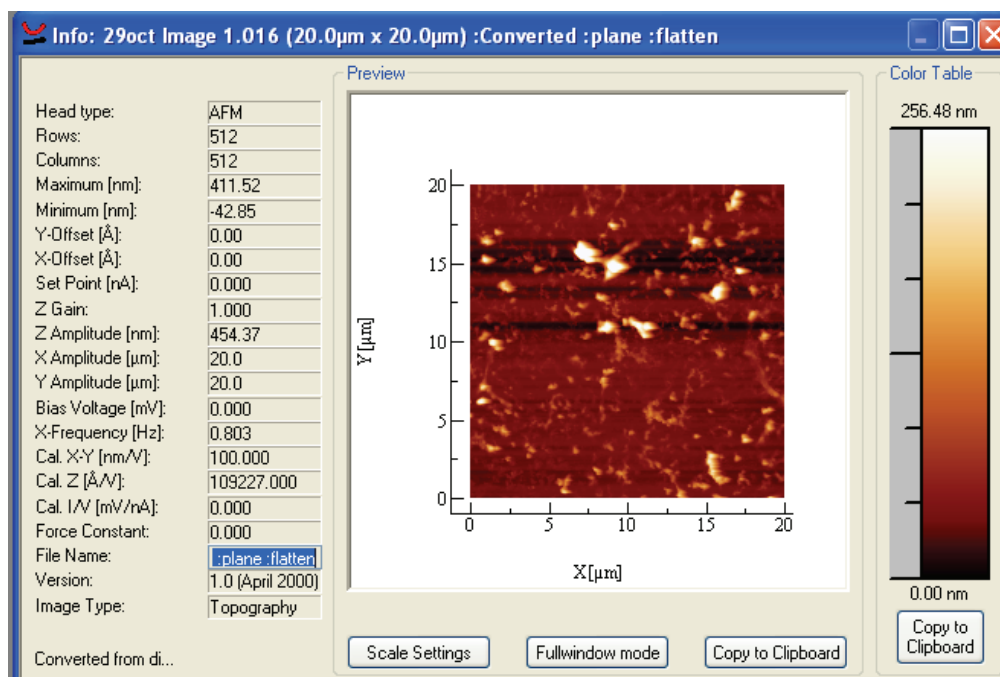


FIGURE B17: (FIGURE 5.17: 20µm x 20µm AFM IMAGE OF THE RUTHENIUM POLYMER (25MG IN 5ML PARENT SOLUTION) DEPOSITED ON Si(100) SUBSTRATE.)