

SUPPLEMENTARY INFORMATION

Title

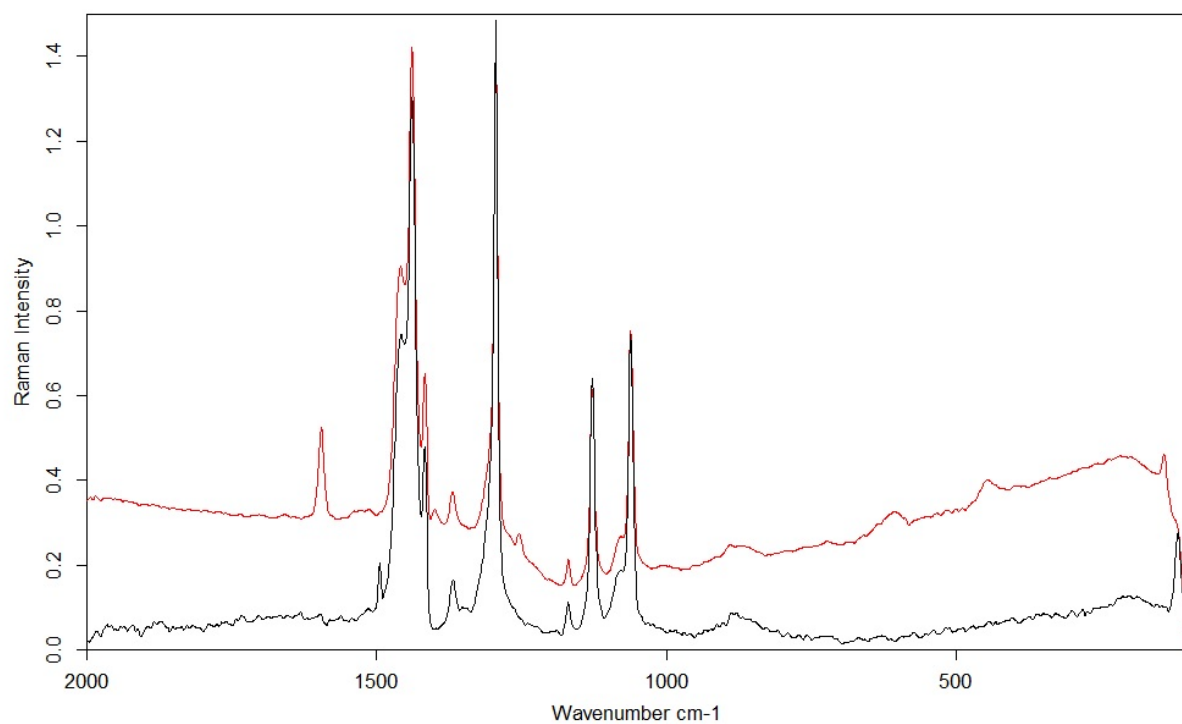
Selective bacterial colonization processes on polyethylene waste samples in an abandoned landfill site

Authors

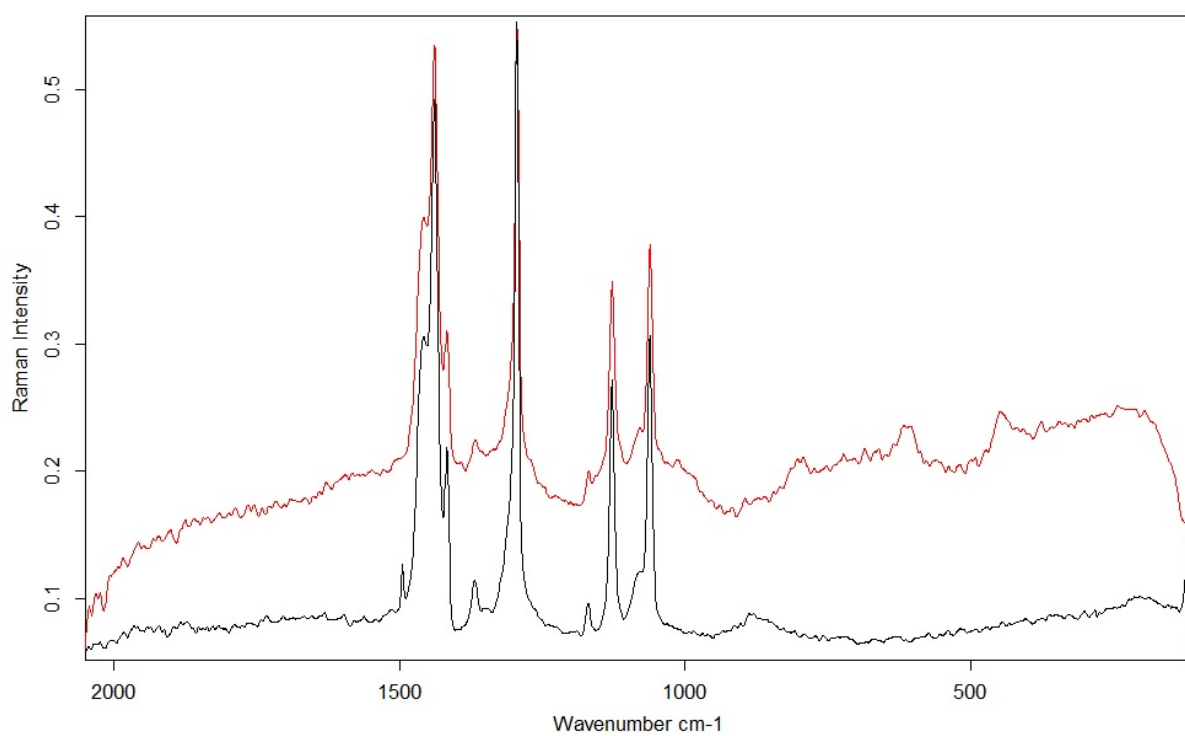
Edoardo Puglisi, Francesco Romaniello, Serena Galletti, Enrico Boccaleri, Alberto Frache, Pier Sandro Cocconcelli

Figure S1. Raman spectra of the different colored films as compared to a reference PE film (black spectral lines) without any pigment: a) yellow film vs reference PE; b) yellow film vs reference PE; c) black film vs reference PE; d) red film vs reference PE; e) green film vs reference PE.

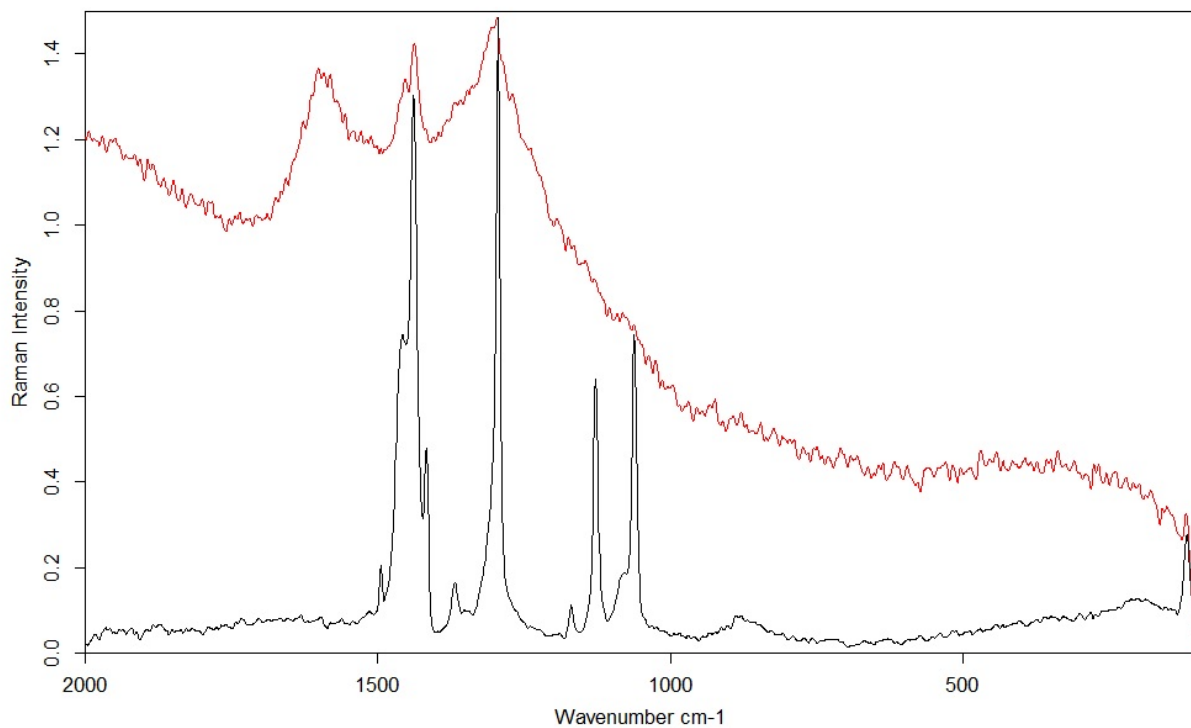
a)



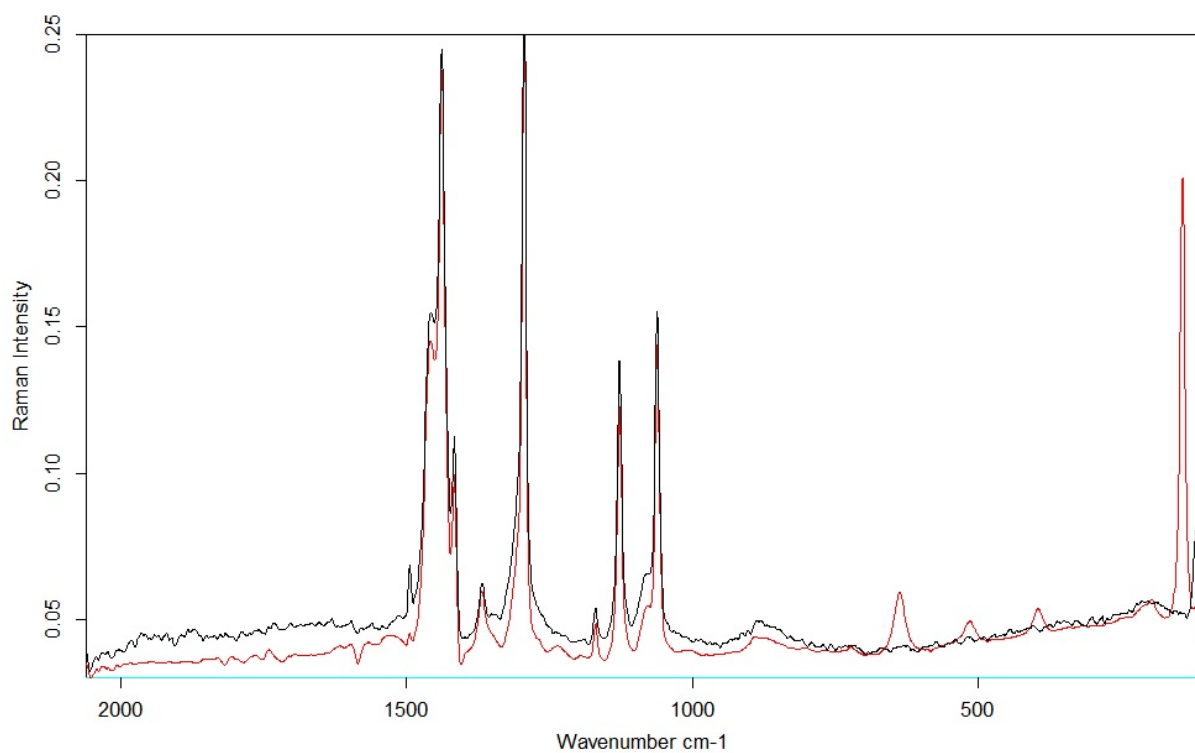
b)



c)



d)



e)

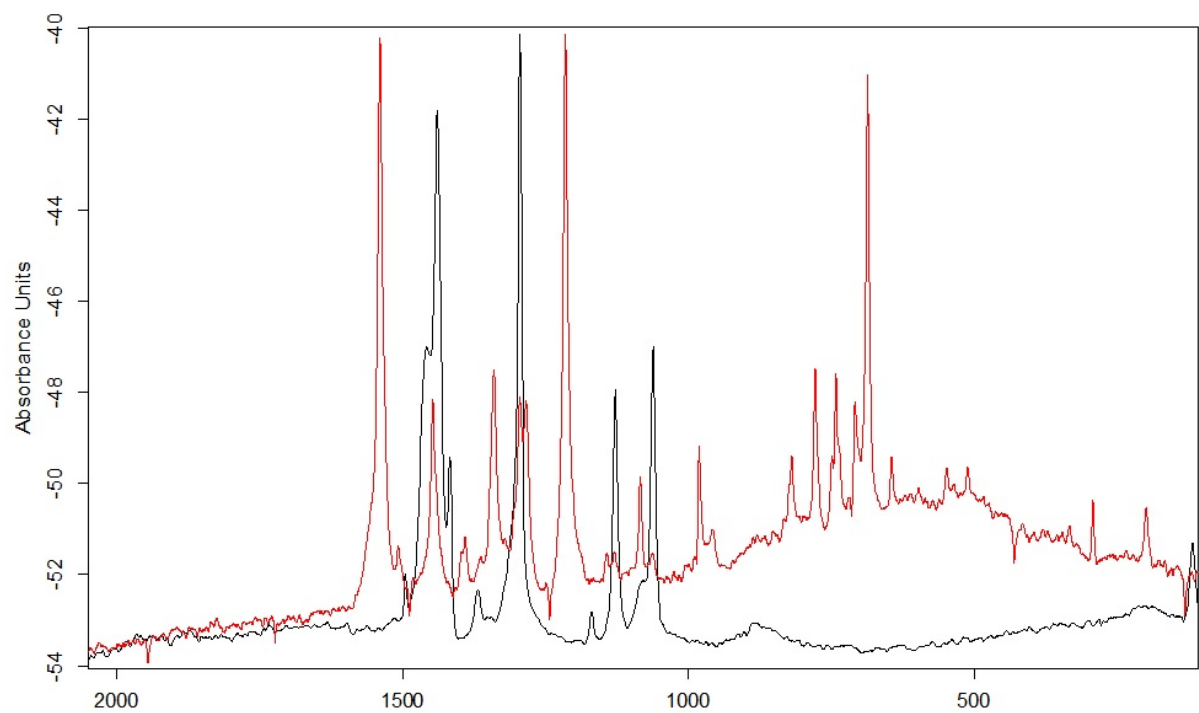
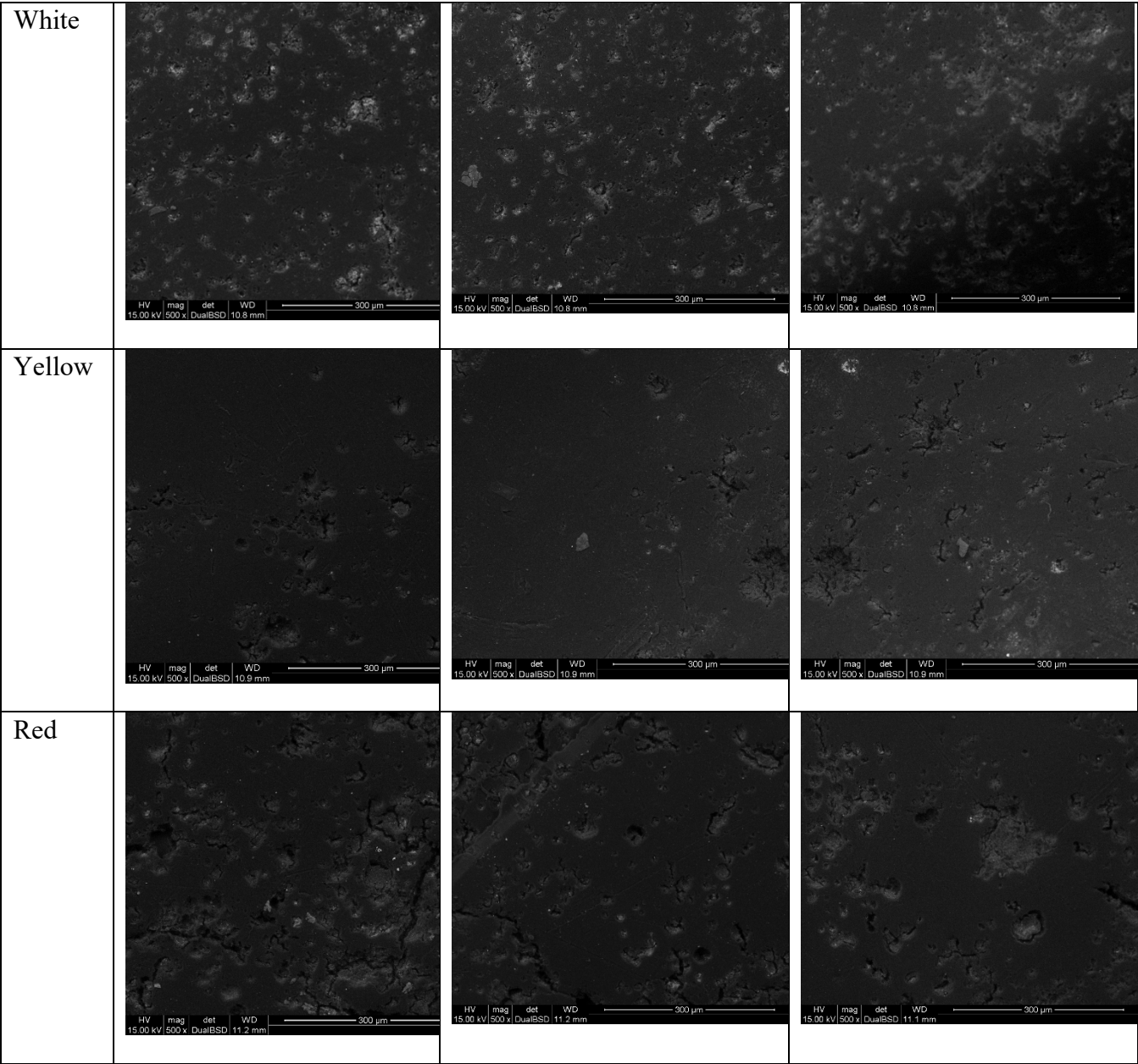
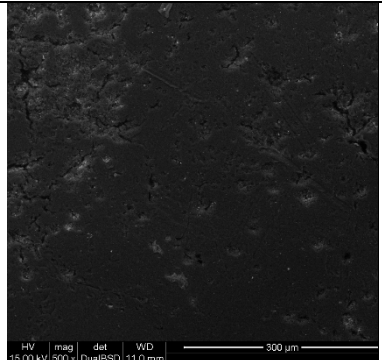
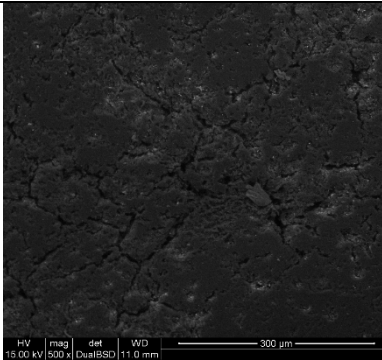
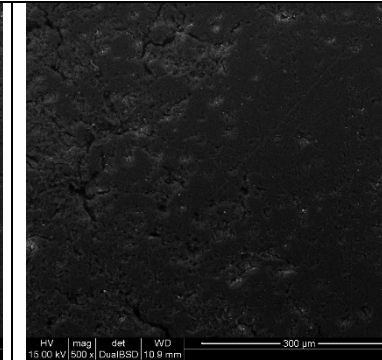
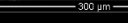
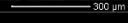


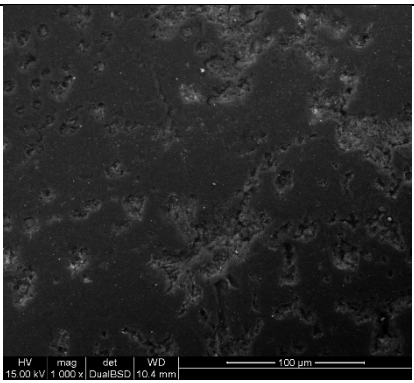
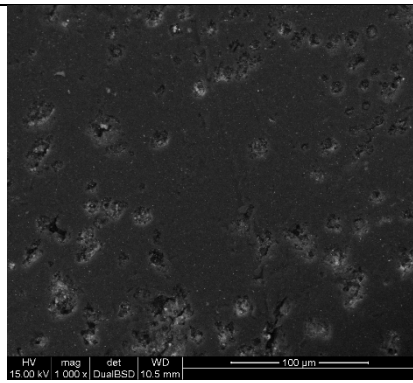
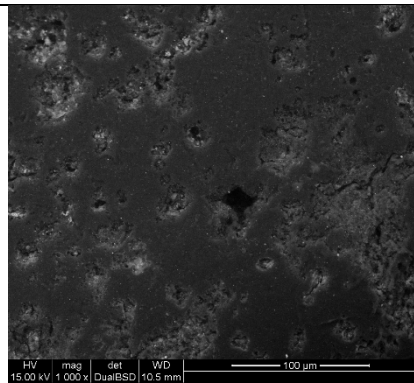
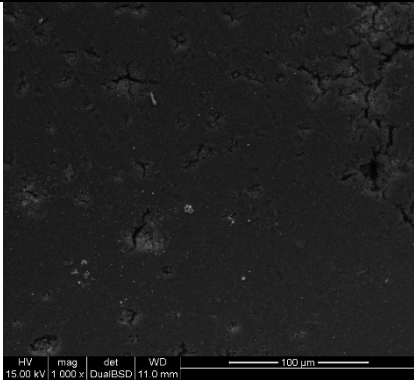
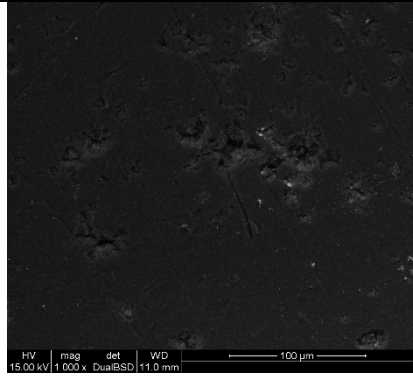
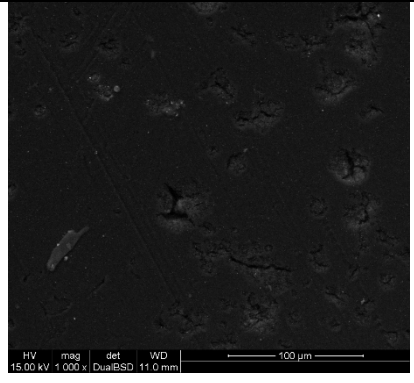
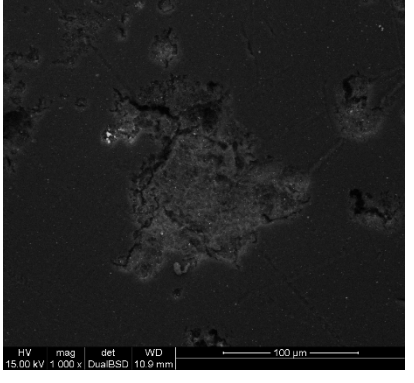
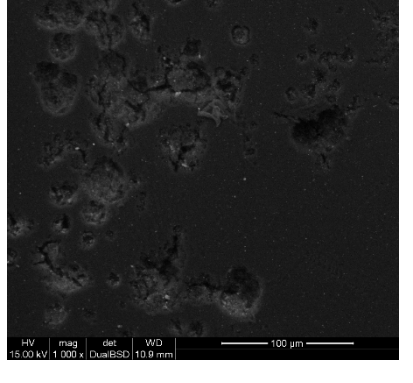
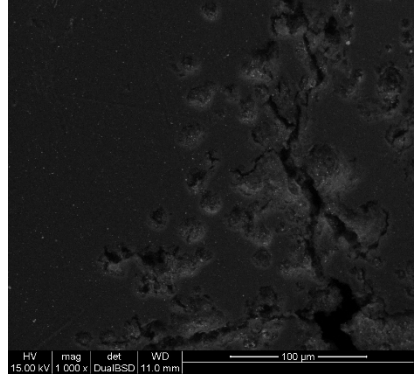
Figure S2. Scanning Electron Microscopy coupled to Energy-Dispersive X-Ray analysis (SEM-EDX) to assess the topological distribution of chemically different species on the plastic films without bacterial biofilm. Magnification ratios were applied at 500X (a), 1000X (b) and 2000X (c).

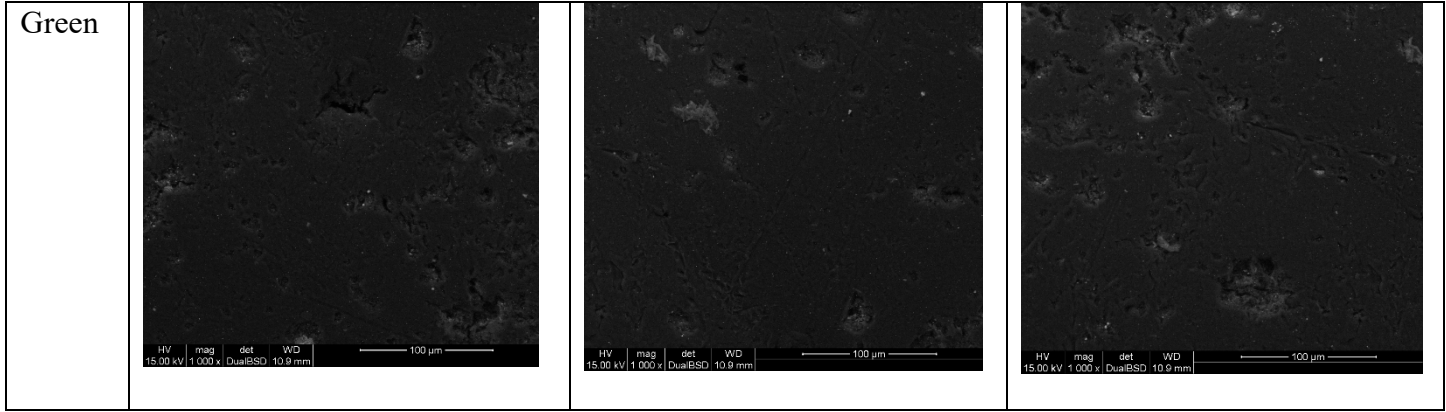
a)



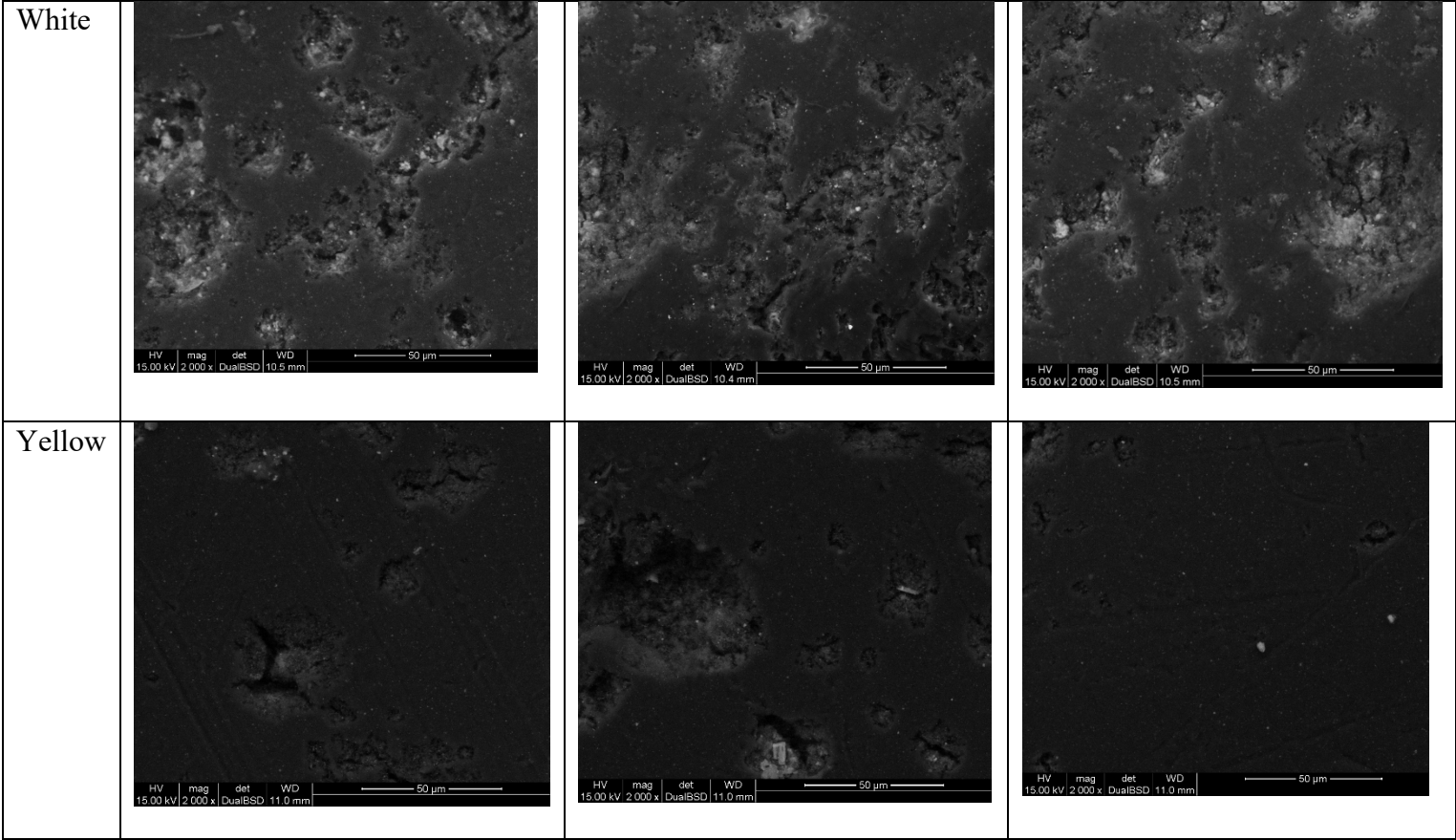
Green			
	HV mag det WD  15.00 kV 500 x DualBSD 11.0 mm 300 μm	HV mag det WD  15.00 kV 500 x DualBSD 11.0 mm 300 μm	HV mag det WD  15.00 kV 500 x DualBSD 10.9 mm 300 μm

b)

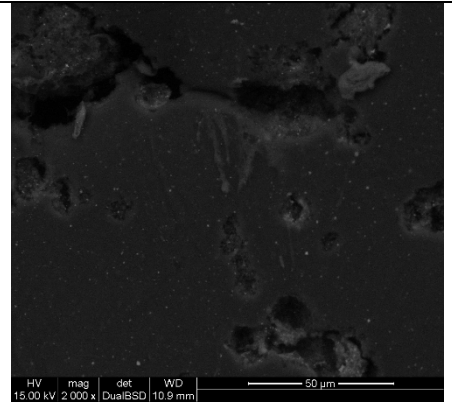
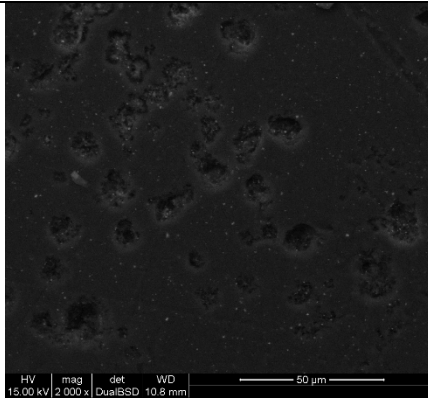
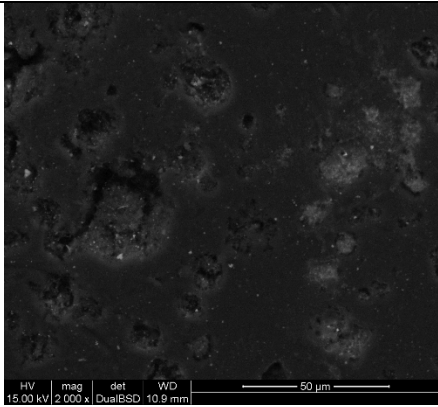
White			
	HV mag det WD  15.00 kV 1 000 x DualBSD 10.4 mm 100 μm	HV mag det WD  15.00 kV 1 000 x DualBSD 10.5 mm 100 μm	HV mag det WD  15.00 kV 1 000 x DualBSD 10.5 mm 100 μm
Yellow			
	HV mag det WD  15.00 kV 1 000 x DualBSD 11.0 mm 100 μm	HV mag det WD  15.00 kV 1 000 x DualBSD 11.0 mm 100 μm	HV mag det WD  15.00 kV 1 000 x DualBSD 11.0 mm 100 μm
Red			
	HV mag det WD  15.00 kV 1 000 x DualBSD 10.9 mm 100 μm	HV mag det WD  15.00 kV 1 000 x DualBSD 10.9 mm 100 μm	HV mag det WD  15.00 kV 1 000 x DualBSD 11.0 mm 100 μm



c)



Red



Green

