



Figure 3.2: 2D analysis of the printed droplets using the PPE-PPV polymer dissolved in 90% toluene and 10% of the co-solvent mesitylene (a), *ortho*-dichlorobenzene (b), methyl benzoate (c).

3.2.2 Printed lines formation

As illustrated in Figure 3.3 on the following page, the line formation is quite consistent with the formation of the droplets. The ink using *ortho*-dichlorobenzene as co-solvent performed best (Figure 3.3b) showing a smooth surface and less coffee drop effect. Compared to *ortho*-dichlorobenzene the ink with the co-solvent mesitylene (Figure 3.3a) leads to a rougher surface and a more pronounced coffee drop effect. Furthermore, a bit more material in the middle can be observed. Finally, the ink with methyl benzoate (Figure 3.3c) resulted in the worst obtained line information. The material in the center shows a really rough surface formation. All these results that were obtained for inkjet printed lines are in a good agreement with the findings that were achieved from the droplets that were inkjet printed from the same inks.