

Supplementary Materials

Figure S1. Spectrum FTIR before and after lead adsorption of Com-1 and Pb-Com1

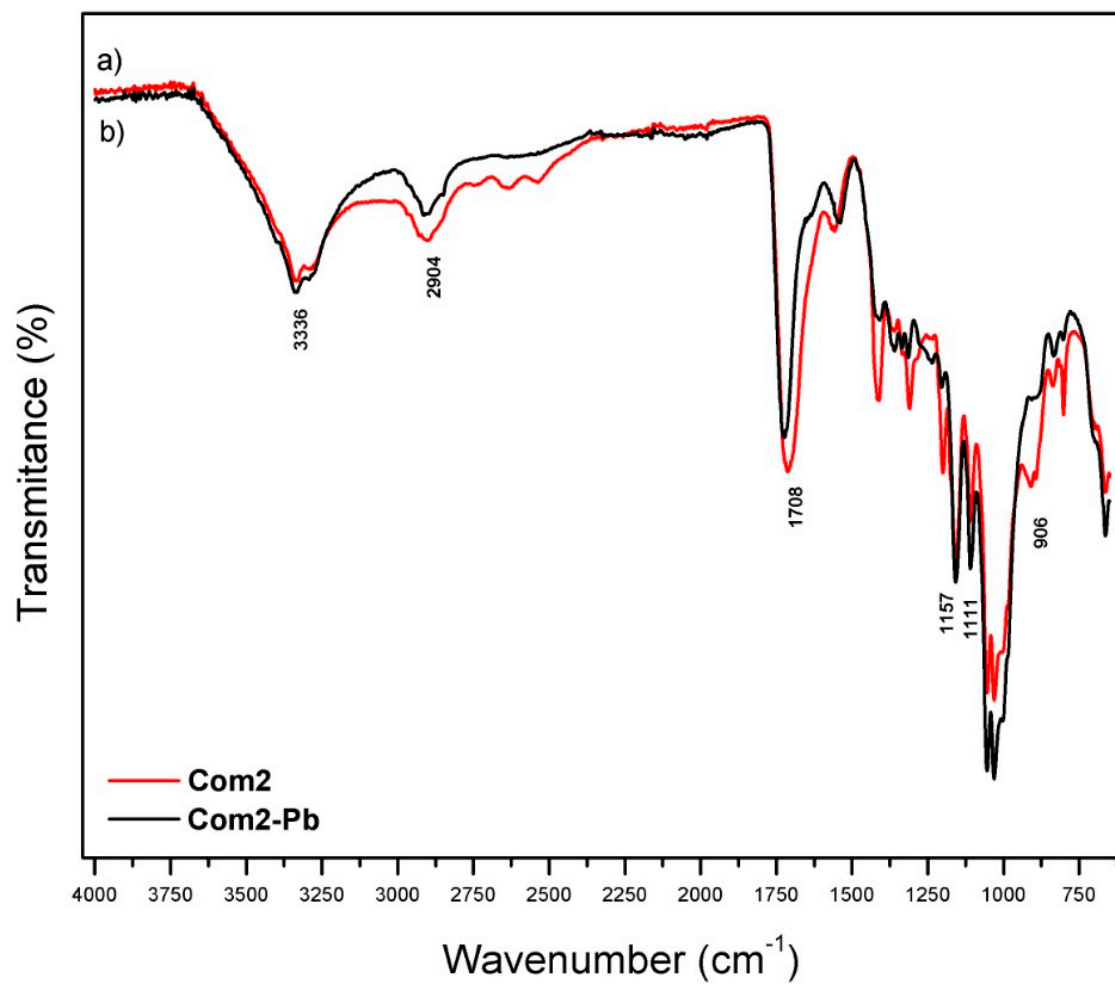


Figure S2. Spectrum FTIR before and after lead adsorption of Com-3 and Pb-Com-3

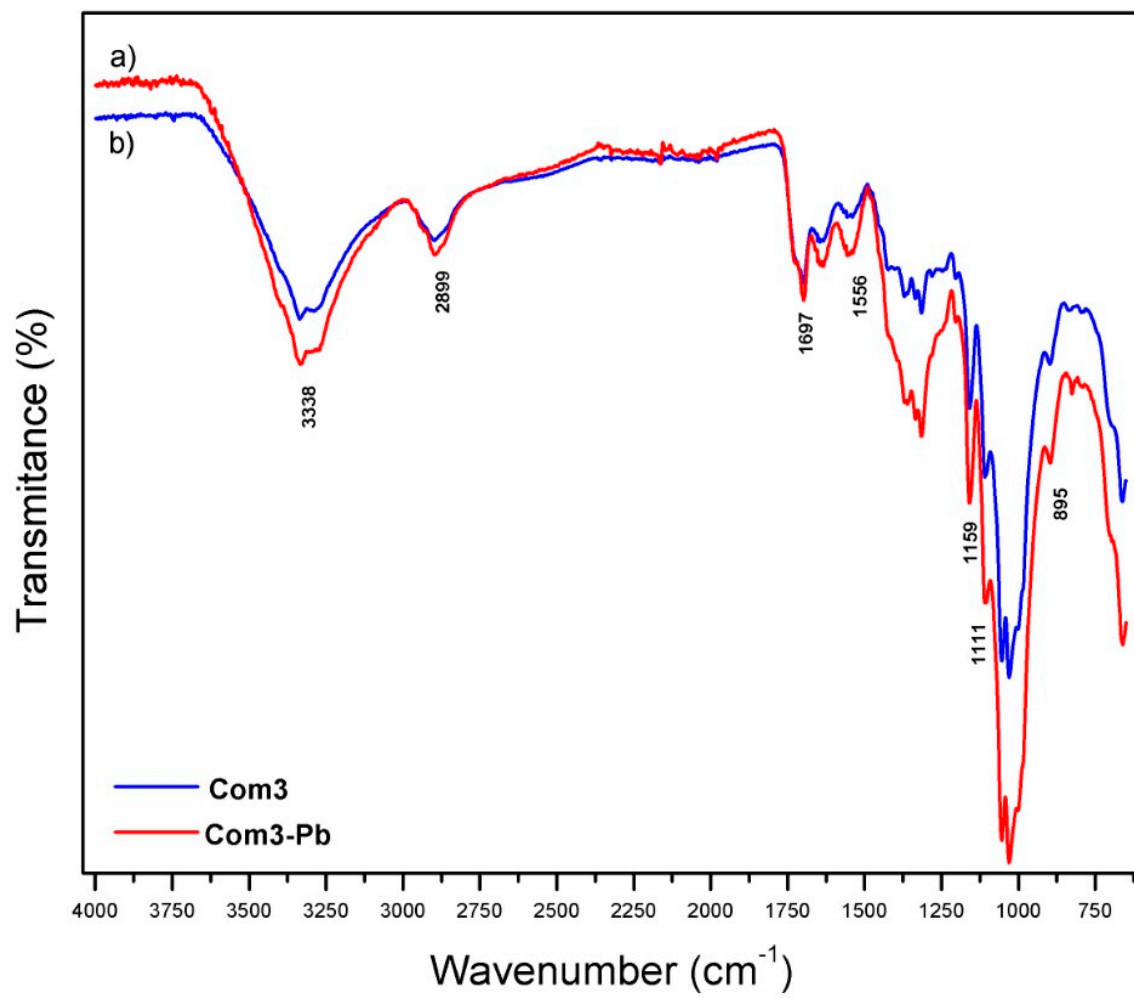


Table S1. Relative atomic concentration (%) for the different composites **before** lead

Material	C 1s				N 1s				Pb 4f		
	C-C/ C-H	C-OH/C-O	O-C-O	O=C-O/ C=O	N-py	-NH ₂	O=C-NH-	-NH ₃ ⁺	Pb-O	Pb-NO ₃	O-
Cellulose	40.98	25.83	5.79	1.33	0.00	0.16	0.44	0.00	0.00	0.00	4.9
Com1	37.31	19.75	3.17	10.62	0.00	0.28	0.37	0.02	0.00	0.00	5.1
Com3	16.89	32.62	10.47	2.74	0.00	1.16	2.70	1.41	0.00	0.00	5.8
Com4	19.17	32.30	10.10	4.38	0.02	0.16	0.45	0.00	0.00	0.00	7.4

adsorption.

Table S1 show the atomic concentration of different functional groups. The main differences between then is related to the attenuation signal attributed to lea