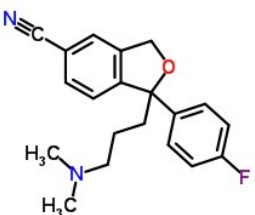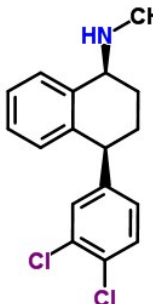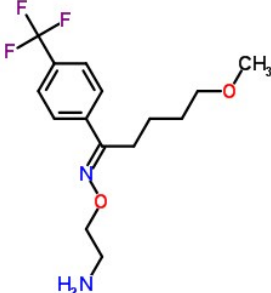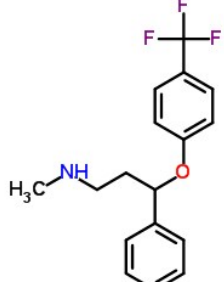# Electronic Supplementary Material

Amino-terminated hyperbranched polyamidoamine polymers Grafted Magnetic Graphene Oxide Nanosheets as Efficient Sorbent for Extraction of Selective Serotonin Reuptake Inhibitors from Plasma Sample

Table S1 Characteristics of selective serotonin reuptake inhibitors drugs.

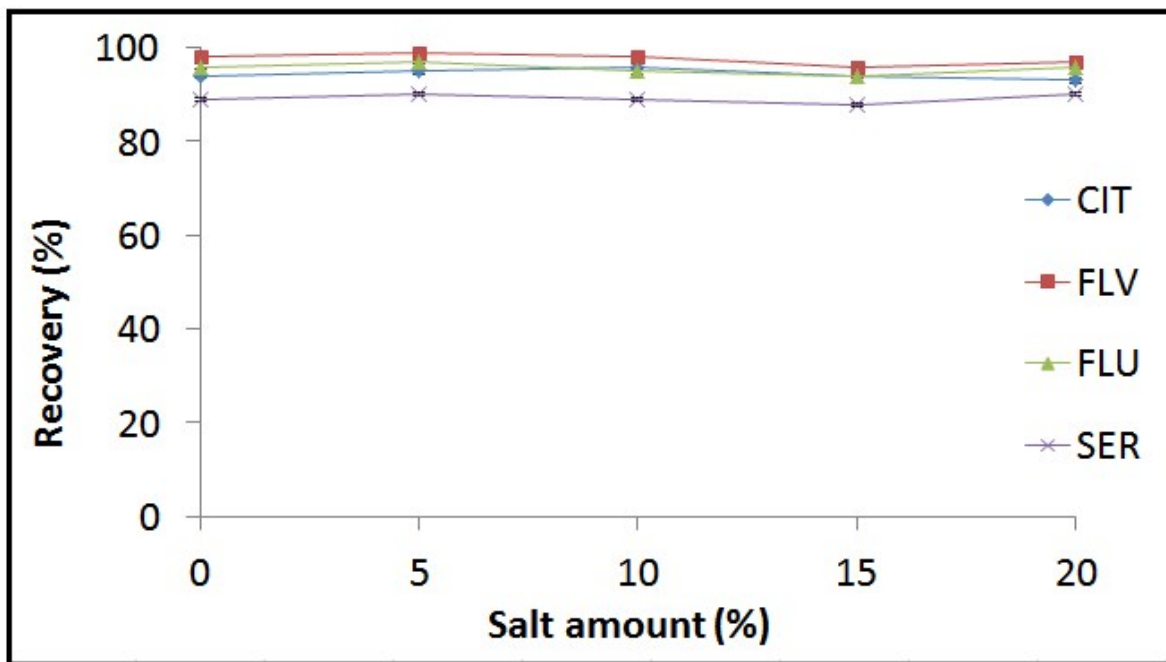| Analytes	Molecular structure	Molar mass (g mol^{-1})	pK$_a$ [39]
Citalopram		324.392	9.78
Sertraline		306.229	9.85
Fluvoxamine		318.355	9.16
Fluoxetine		309.32	9.8

Fig. S1. Effect of salt amount on extraction recovery.

Table S2 Analysis of variance (ANOVA) for central composite design of SSRIs.

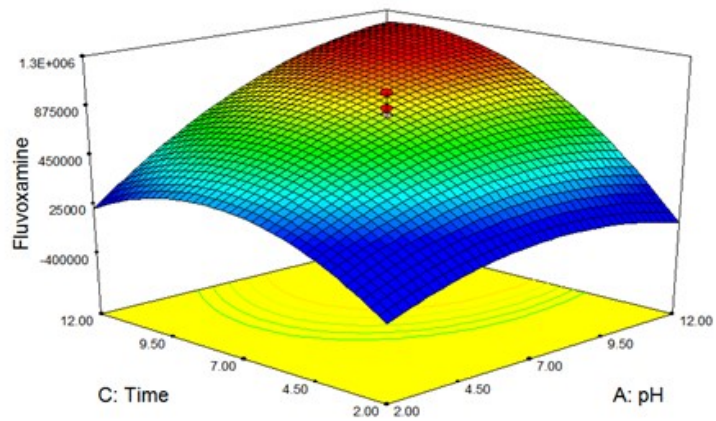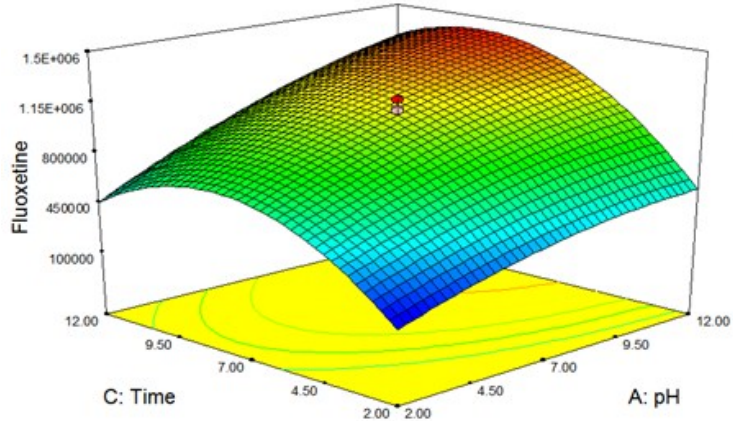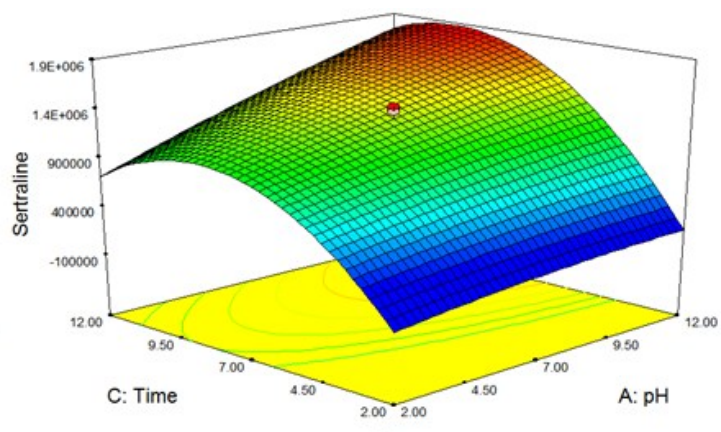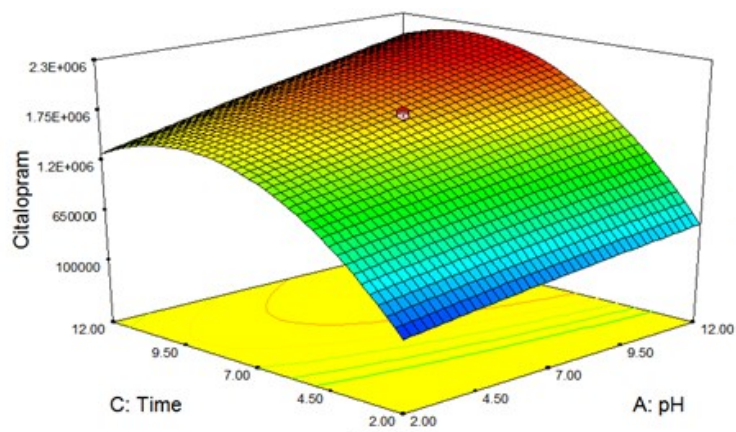| Analytes	Source of variation	Sum of square	Df[a]	P- value	R^2	R_{adj}^2	R_{pred}^2
Citalopram	Model	2.941E+010	9	< 0.0001	0.9991	0.9982	0.9960
	Residuals	2.691E+007	9				
	Lack of fit (LOF)	1.209E+007	5	0.6783			
	Pure error	1.482E+007	4				
	Total	2.946E+010	19				
Sertraline	Model	1.040E+011	9	< 0.0001	0.9857	0.9714	0.9452
	Residuals	1.507E+009	9				
	Lack of fit (LOF)	3.838E+008	5	0.9063			
	Pure error	1.124E+009	4				
	Total	1.090E+011	19				
Fluvoxamine	Model	4.461E+010	9	< 0.0001	0.9331	0.8997	0.7643
	Residuals	3.198E+009	9				
	Lack of fit (LOF)	2.601E+009	5	0.2358			
	Pure error	5.972E+008	4				
	Total	4.785E+010	19				
Fluoxetine	Model	6.192E+008	9	< 0.0001	0.9558	0.9117	0.8025
	Residuals	2.861E+007	9				
	Lack of fit (LOF)	1.348E+007	5	0.6465			
	Pure error	1.514E+007	4				
	Total	6.532E+008	19				

[a] Degrees of freedom

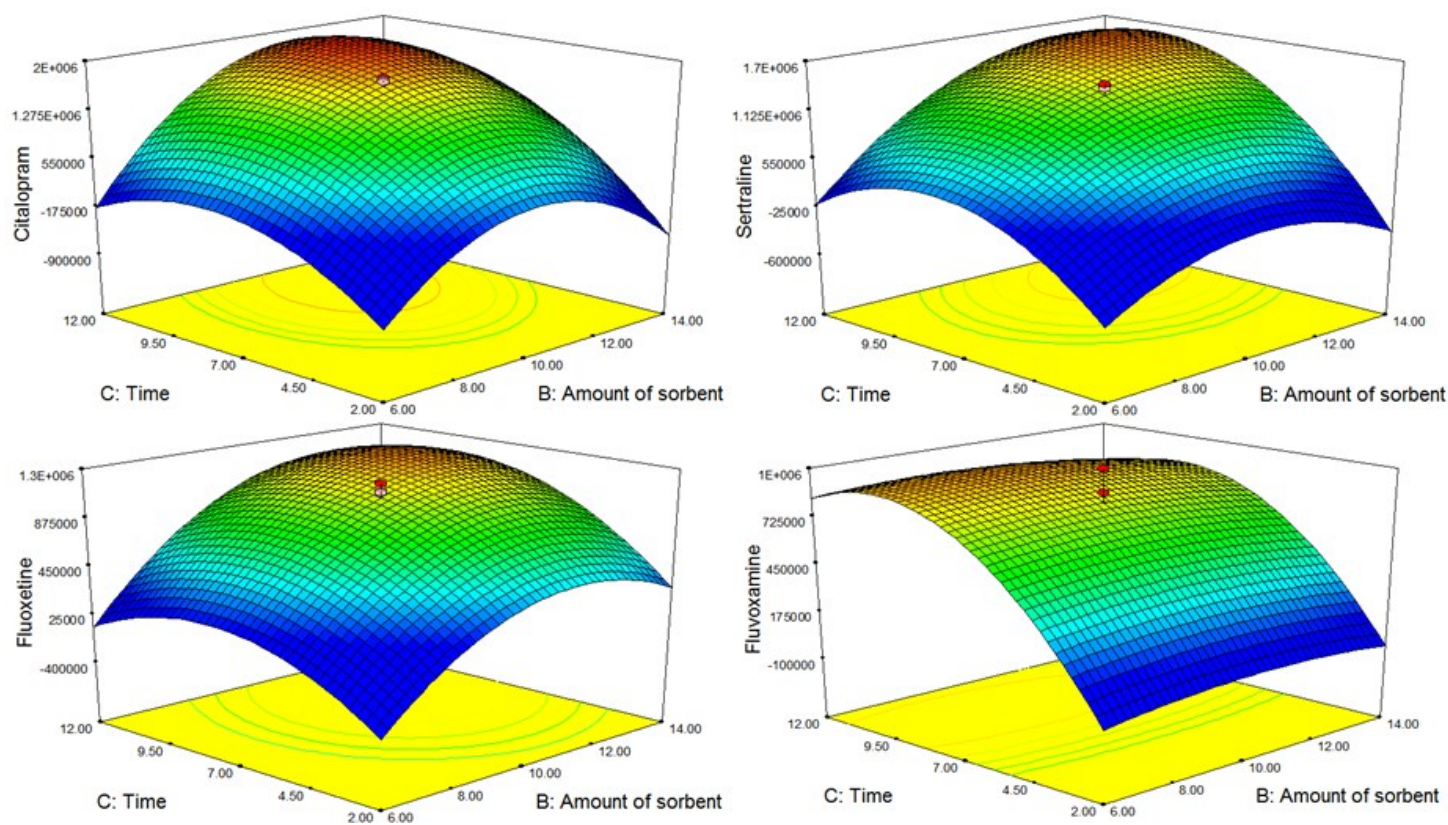Fig. S2. Response surfaces for CCD based on extraction time vs. pH for analytes. Response value: peak area.

Fig. S3. Response surfaces for CCD based on extraction time vs. amount of sorbent for analytes. Response value: peak area.