Program	**Program Nucleu PN 09-13 01 17**
Project title (ENG):	**Chromatographic methods for the identification and determination of some plant treatment agents, introduced into the list of dangerous substances**
Project title (RO):	**Metode cromatografice pentru identificarea si determinarea unor agenti de tratare a plantelor, nou introdusi in lista substantelor periculoase**
Duration	2015
Team Leader	Senior Researcher Iancu Vasile
Summary ENG (short description)	In this project it was developed a sensitive, selective and accurate testing method for determining concentrations of plant treatment agents (aclonifen, bifenox, quinoxyfen) and of some biocides (cibutrin, alachlor, dichlorvos) in surface water samples, with low limits of detection that meet environmental quality standards of 39/2013 Directive. The performance parameters of the developed method were estimated on in-house validation methodology in order to demonstrate their compliance with the requirements of environmental regulations. The method was applied to detect these organic pollutants in surface water priority in our country.
Summary RO (short description)	In cadrul proiectului a fost dezvoltata **o metoda de incercare** sensibila, selectiva si precisa pentru determinarea concentratiilor unor agenti de tratare a plantelor (aclonifen, bifenox, chinoxifen) si a unor biocide (cibutrin, terbutrin, diclorvos) în probe de apa de suprafata cu limite de detectie ce respecta standardele de calitate de mediu ale Directivei 39/2013. Parametrii de performanta ai metodei dezvoltate in laborator au fost estimati pe baza metodologiei de validare *in house* pentru a demonstra conformitatea acestora cu cerintele normativelor de mediu. Metoda a fost aplicata pentru detectia acestor poluanti organici prioritari in ape de suprafata din tara noastra.
Dissemination of results	
Full-paper ISI	Vasile Ion Iancu, Toma Galaon, Jana Petre, Liliana Cruceru, Luoana Florentina Pascu, Carol Blaziu Lehr; New Priority Substances, Biocides and Pesticides ,in the Aquatic Environment of Romania Rev. Chim.(Bucharest), 67, No. 8, 1484-1488, 2016