ID: Type: **Poster**

# T2.1-P12. Performances and lessons learned with a transportable radionuclide laboratory deployed during the IFE14

The radionuclide laboratory is a key component to analyse environmental samples and gamma emission spectra for trace amounts of nuclear explosion relevant nuclides. During 4 weeks operations in Jordan for the 2014 Integrated Field Exercise (IFE14), more than 150 samples and in-situ spectra were successfully analysed to establish baseline information on the Inspection Area, map the presence and concentration levels of key nuclides, and contribute to narrowing-down the search areas. Key performances are presented and specific operational constraints and challenges during an on-site inspection are discussed. Lessons learned that will be key for the next development cycle are described, including needed developments to allow for a more rapid deployment of the radionuclide laboratory in the field.

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**Track Classification:** 2. Events and their characterization