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Results of Xenon Laboratory Intercomparison Exercises Performed in 2012

The QA/QC program for Noble Gas systems of IMS Radionuclide network will be based on sample re-analyses at IMS laboratories. In order to ensure the credibility of IMS laboratories as providers of reference results, the laboratories have to be certified and have to undergo a QA/QC program, as well. Part of the laboratory QA/QC program will be regular intercomparison exercises. As a pilot program three such exercises have been performed in 2012. A bias of around 30% in activity concentration results between two groups of labs have been observed, but within the two groups results agreed very well in spite of different measurement technologies. Investigations on the reason for bias are needed ongoing.

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