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of the Automated and Interactive Radionuclide Reports comparison between International Data Centre (IDC) and baseline reports from National Data Centres (NDCs)

National Data Centres (NDCs) participated in 2024 Experiment by performing Automated and Interactive analysis of Radionuclide Spectral Data and produced both the Automated Radionuclide Reports (ARR) and the Reviewed Radionuclide Reports (RRR) for a selection of particulate and noble gas sample spectra. The NDC reports are used to produce the baseline reports for comparison with the IDC products for three quality parameters: (1) number of peaks detected where peak detection and identification apply only to particulate systems; (2) number of correctly identified relevant radionuclides; and (3) activity concentration of the quantified radionuclides. The metrics used for nuclide quantification accuracy comparison are percent difference (%D) between the IDC and the NDC activity concentration and zeta (ζ) score in line with ISO 13528:2022(E). This poster will demonstrate the methodology used for the quality assessment of the IDC radionuclide products and summarize the main findings and lessons learned.

E-mail

dragana.stasic@ctbto.org

Primary author: Ms STASIC, Dragana (CTBTO Preparatory Commission)

Co-author: Dr LABAN, Shaban (CTBTO Preparatory Commission)

Presenter: Ms STASIC, Dragana (CTBTO Preparatory Commission)

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