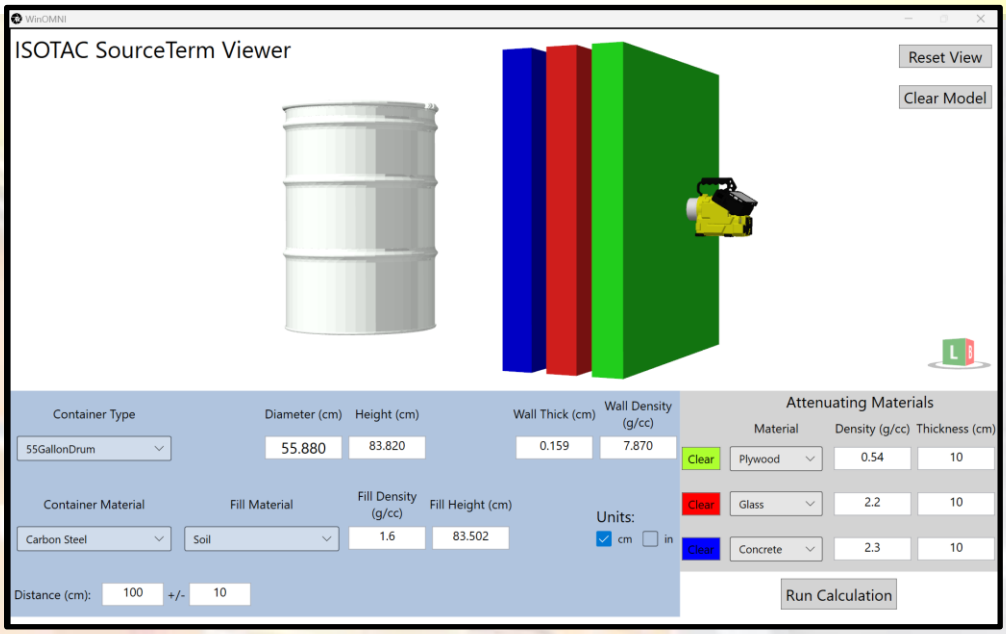
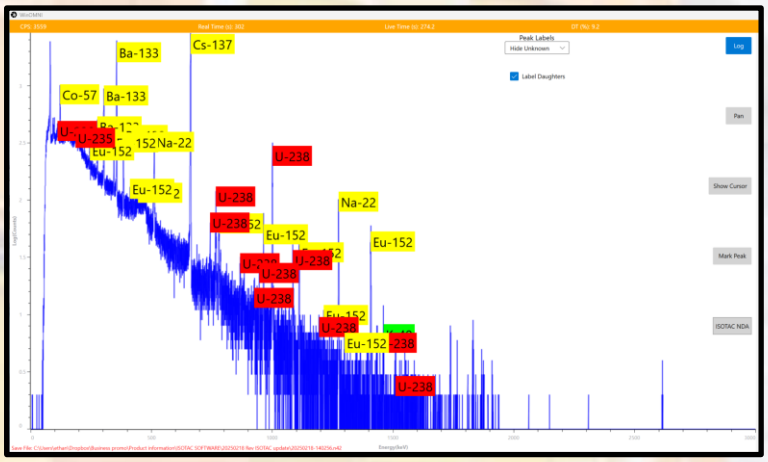
ISOTAC

PHDS Gamma Ray Detectors

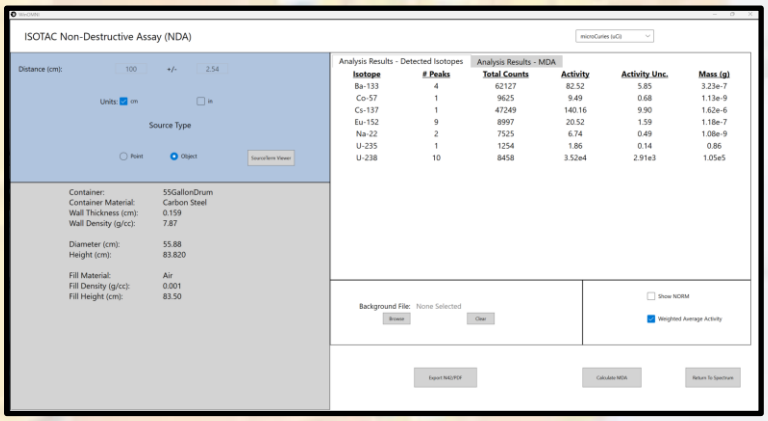
HPGe Gamma Ray Spectroscopy Non-Destructive Assay Software



ISOTAC SourceTerm Viewer allows creation of models with filled (or partially filled) 3-Dimensional objects (Drums, B-25, cargo containers, etc…), variable detector distances and multiple layers of attenuating material for NDA calculations.



Gamma-ray Spectroscopy and Isotope Identification from WinOMNI Data acquisition or previously recorded .n42 files from Android OMNI serve as input to ISOTAC.



ISOTAC Non-Destructive Assay (NDA) Calculations incorporate user specified uncertainties, statistical uncertainties (counting statistics) and background to provide NDA results quickly and conveniently.

PHDS Co. 3011 Amherst Road, Knoxville, TN 37921 (865) 816-8666 www.phdsco.com sales@phdsco.com

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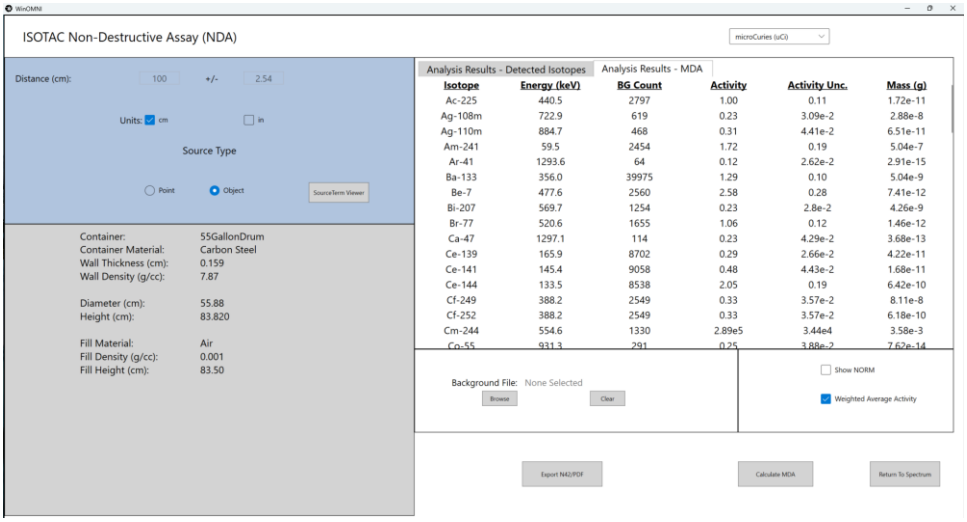
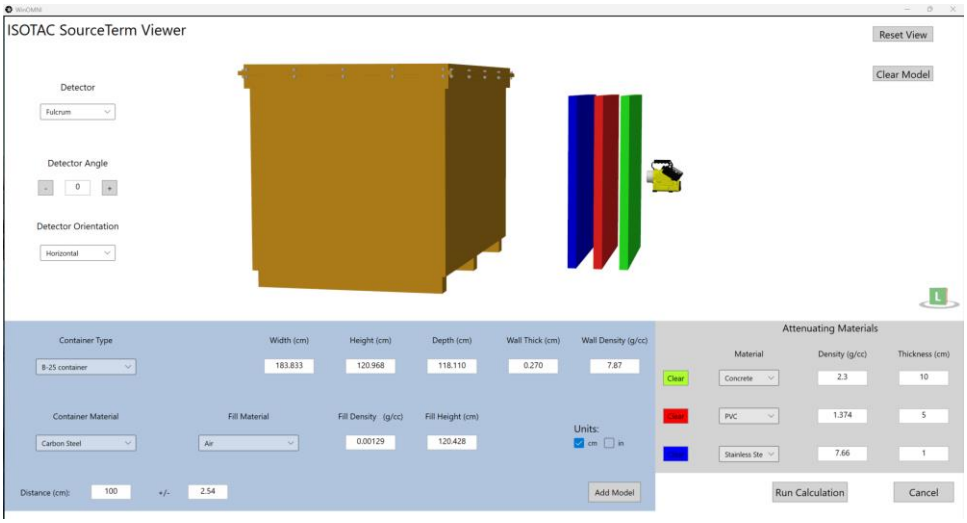
ISOTAC Software Features:

- Runs under PHDS WinOMNI Windows-Based DAQ / Control Software
- Produces Data Formats accepted by other commercial NDA packages
- Produces Standard N42.42 output, Report PDF, and QA Report
- Quantitative Assay Measurements with PHDS Co. HPGe Detectors
- Fulcrum and Fulcrum-40h Mechanically Cooled Detectors
- Useful with PHDS Co. QuantiCart Portable NDA/MDA System
- Loads and Analyzes data files recorded on the onboard Android OMNI
- Make Custom Models for your analysis workflow
- Load user-created models into ISOTAC for analysis of any physical object
- Full model file reload, modify, resave and offline analysis
- User controlled statistical detection and ID requirement (Nσ)
- ISOTAC generates measurement assay reports with full description

ISOTAC is readily compatible with Fulcrum, Fulcrum-40h and QUANTICART.



ISOTAC Minimum Detectable Activity (MDA) calculator provides a list of MDAs for each user-specified library isotope and NDA scenario.



Several standard source term objects exist in the ISOTAC library. Custom objects can be imported and filled with attenuating/source materials.

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Specifications subject to change

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