Identify

program for nuclide identification from gamma spectra

Identify is an intelligent, interactive software tool to evaluate spectra measured with the MCA 166 or other MCAs. It does peak search and nuclide identification. HPGe, CdZnTe and NaI detector gamma spectra are supported. For correct peak search a starting point for the detector resolution and efficiency is assumed based on detector type and size.

Features

- includes full master library of gamma lines (derived from table of radioactive isotopes)

- Now with QuickID user interface

- editor for creating application specific evaluation libraries

- supports evaluation of HPGe as well as CdTe or NaI gamma spectra

- detector function is calculated from detector data sheet, no efficiency calibration needed

- automatic determination and visual representation of FWHM of the peaks found in a spectrum as function of energy

- advanced peak search function including peak deconvolution

- manual insertion and deletion of peaks possible

- supports 1- to 3-point energy calibration

- separate windows for spectrum and evaluation results, variable in size

- instant mouse pointer info: Shows channels/energy

- linear, logarithmic, square root, and double log representation possible

- error estimations/confidence assessment for identified isotopes and visualization (by overlay of calculated spectrum for a certain isotope)

- reporting capabilities: cursor info, peak report, and nuclide report with different options

- switching between english and german languages

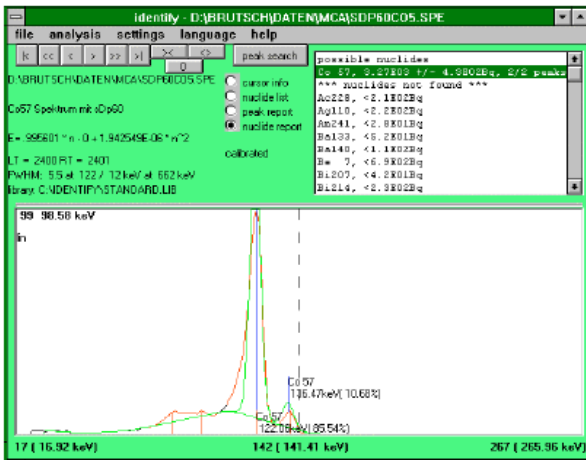- supports any possible screen resolution

Identification tools

- interactive nuclide pattern identification

- nuclide assignment suggestions also for each single peak

- instant graphical comparison to simulated spectra by clicking on a nuclide
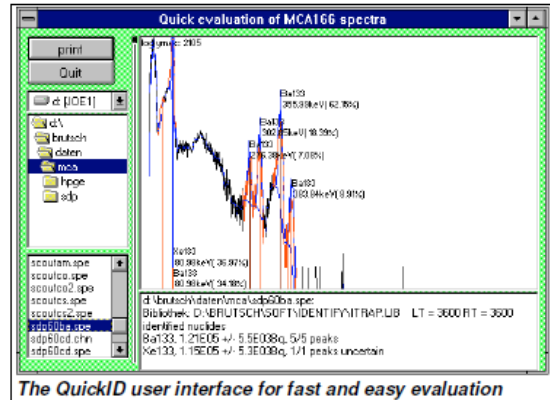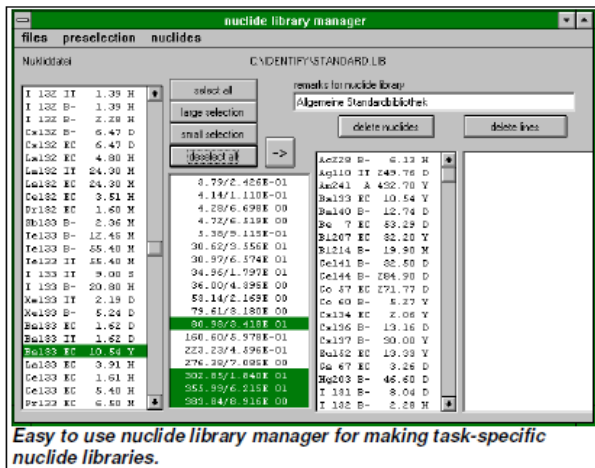
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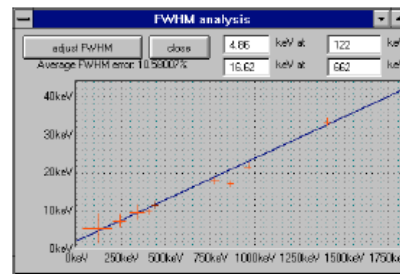## program for nuclide identification from gamma spectra

The Identify main evaluation window. The result list can be enlarged at the expense of the spectrum window and reverse.
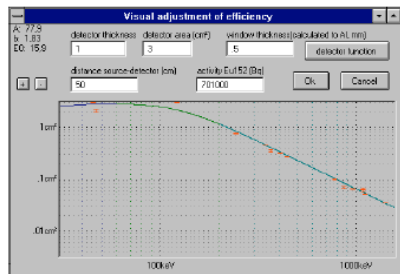

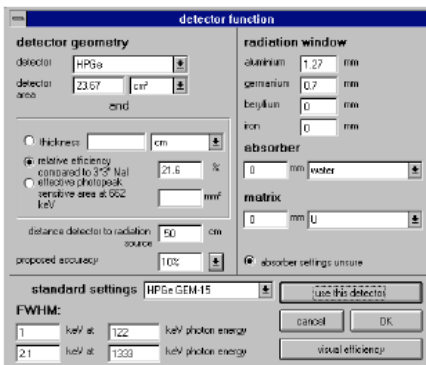The QuickID user interface for fast and easy evaluation

Easy to use nuclide library manager for making task-specific nuclide libraries.

Graphical FWHM evaluation display

Graphical detector efficiency display

No detector calibration necessary, just have a look at the detector data sheet and at the measurement setup. This is all you need to get a proper identification and usable values for the activities.

Hardware/OS requirements: Any PC/Notebook with Windows 95/98/NT and 16 MB RAM, 166 MHz or better. Win 3.1 Version also available. The program is available on 4 installation disks and needs 7 MB of disk space.
For comfortable and fast evaluation a high screen resolution and a good graphic adapter is recommended.

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