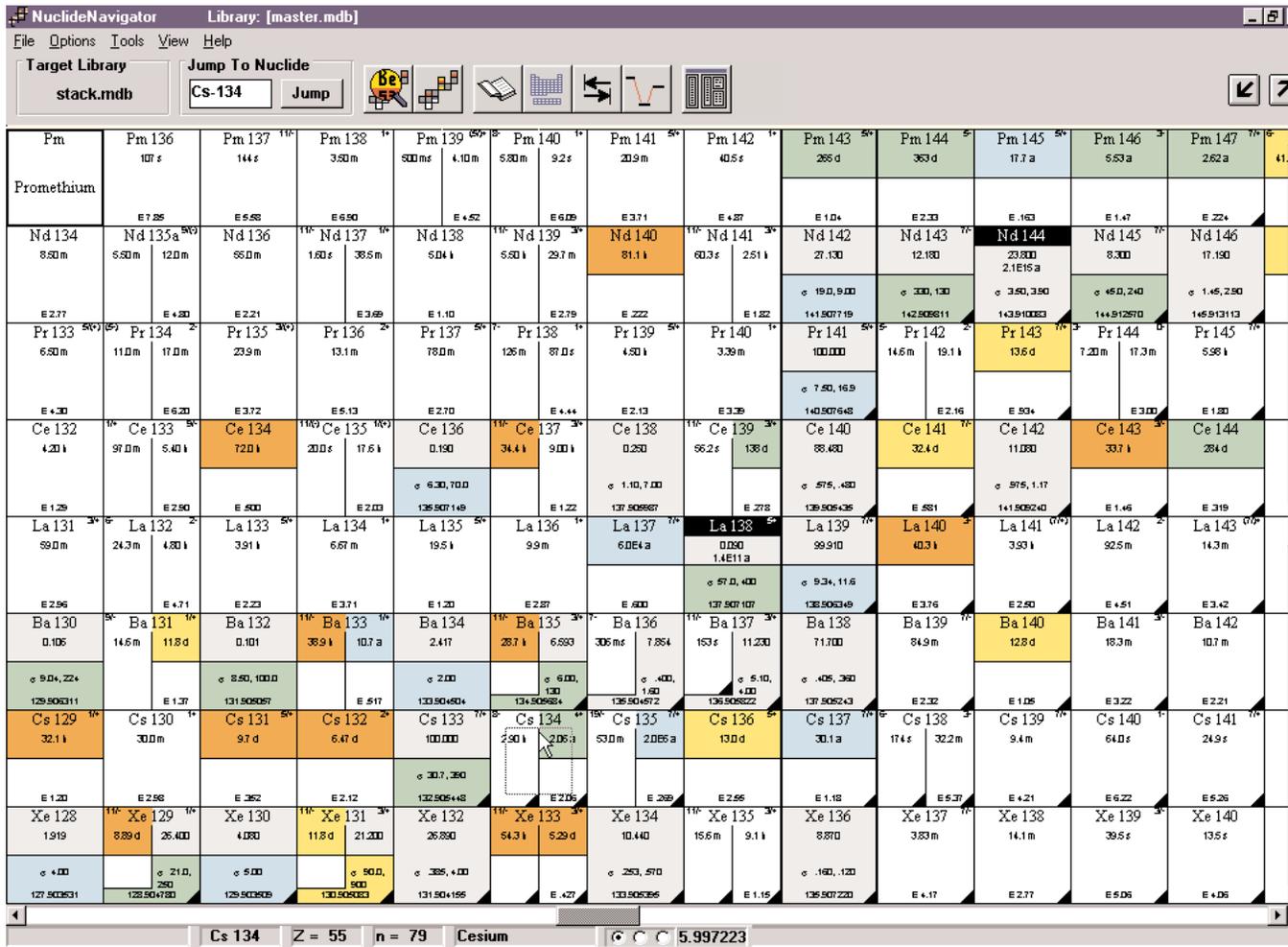


Chart of the Nuclides Database Software for Windows 98/2000/XP



PC-based chart of the nuclides for use with gamma spectroscopy analysis software (GammaVision-32) or as a stand-alone package

New Features, Additional Libraries, and New Tools to retrieve information and identify isotopes.

The Most Comprehensive Nuclide Library Database Ever Available from *ORTEC*

Nuclide Navigator III has expanded and updated its libraries to comprise the most accurate information available. The TORI database has been added to the list of available databases, and the NUDAT library has been updated from Brookhaven National Laboratory's latest archive. The Erdtmann and Soyka database remains in the software as well as some handy pre-selected libraries for environmental and nuclear power plant counting and calibration libraries for the standard mixed gamma and mixed europium sources. All libraries supplied with the software are available in Microsoft Access database (MDB) format and ORTEC GammaVision (LIB) format.

Each library contains the appropriate alpha, beta, and/or gamma decay. Viewing the information for a specific isotope allows quick access to both the parent and daughter isotopes with a simple click of the mouse.

Choose the Type of Decay (Alpha, Beta, or Gamma)

Select the Order (by Energy or Branching Ratio)

view Parent or Daughter Information

Energy	Branch (%)	Br Codes	A Gamma 1	A Gamma 2
609.31	44.80000		1764.49	1120.29
1764.49	15.36000		609.31	1120.29
1120.29	14.80000		609.31	1764.49
1238.11	5.86000		609.31	1764.49
2204.21	4.86000		609.31	1764.49
768.36	4.80000		609.31	1764.49
1377.67	3.92000		609.31	1764.49
934.06	3.03000		609.31	1764.49
1729.59	2.88000		609.31	1764.49
1407.98	2.80000		609.31	1764.49

Comprehensive Legend gives nuclear and physical properties of the isotopes.

Legend windows showing:

- Artificially Radioactive Nuclide: Zr 95, Ag 110
- Naturally Occurring Radioactive Nuclide: V 50, In 115
- Relative locations of the products of various nuclear processes
- Fission Yield curves for U-235, Pu-239, and U-233
- Half-life legend: 1 to 10 days, 10 to 100 days, 100 days to 10 years, 10 years to 5 x 10⁸ years, Greater than 5 x 10⁸ years

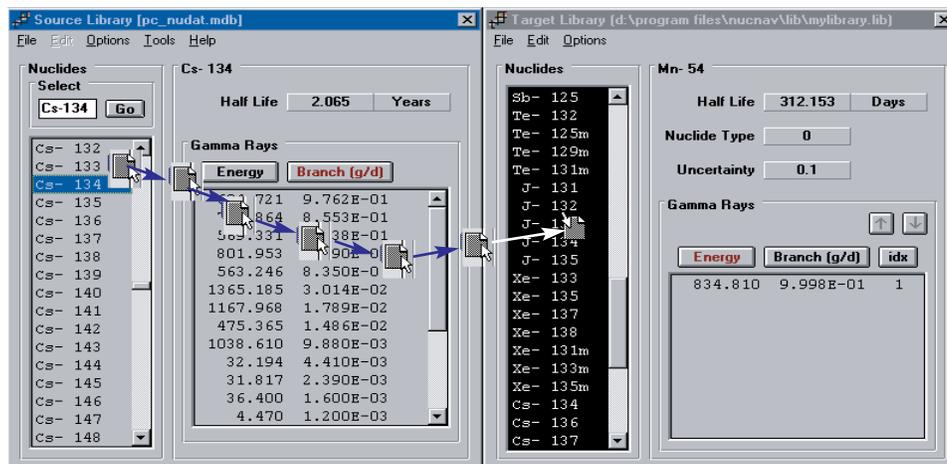
Nuclide Navigator III

C53-B32

Interactive Creation/Editing of Libraries for use with ORTEC Software Products

Creating and editing libraries in Nuclide Navigator is as easy as using a mouse. To add a nuclide simply drag and drop nuclides from the Master Library window to the Target Library.

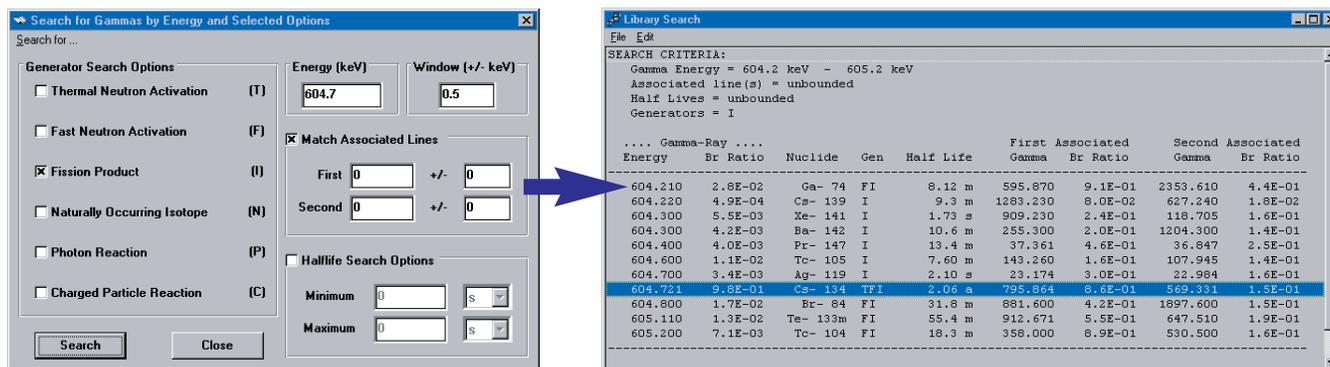
The source and target libraries can be in Microsoft Access database format or the ORTEC format for GammaVision (LIB) libraries. Once created in Nuclide Navigator, LIB files can be edited and used for analysis directly in the GammaVision software.¹



Search for Unknowns

The comprehensive Search Tool in Nuclide Navigator lets the user define search criteria for specific energy peaks. The search results window gives other associated lines (in order of intensity) to look for in the spectrum.

The search results window gives other associated lines (in order of intensity) to look for in the spectrum.



¹GammaVision 5.20 and higher can also read and edit the Access MDB format database libraries. For GammaVision upgrade information, contact your local sales representative or visit our website at www.ortec-online.com.

