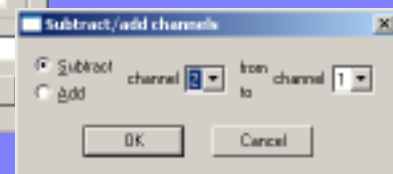
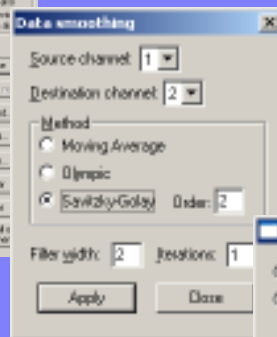
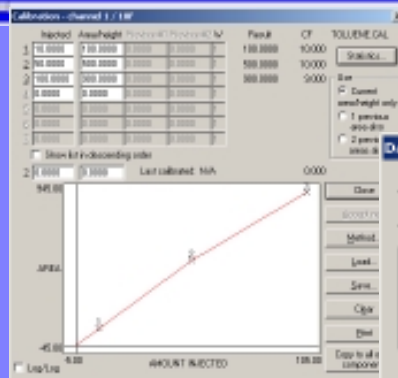
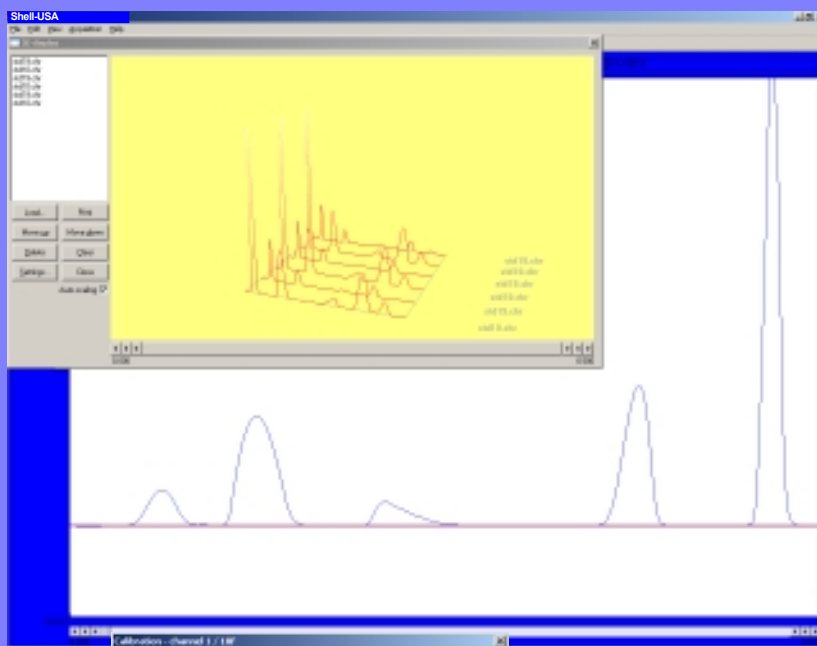
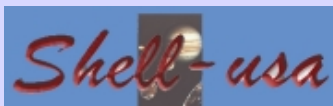


# Shell, Jr. 4000 Radio-TLC Detector & Software for all isotopes - $\beta$ , $\gamma$ , Positrons incl. $^3\text{H}$

- ◆ **Low cost, compact, bench saving design**
- ◆ **High performance detector for 100 X 200 mm TLC plates, Strips, Gels, Blots etc.**
- ◆ **BGO detector for  $\gamma$  and Positrons**
- ◆ **Proportional Gas Flow Counter for  $\beta$  detection**
- ◆ **Automated set-up of scan speeds, peak detection & data manipulation**
- ◆ **Linearity >  $10^6$ , Low background & detection limits**
- ◆ **GLP/CFR 11 compliant**

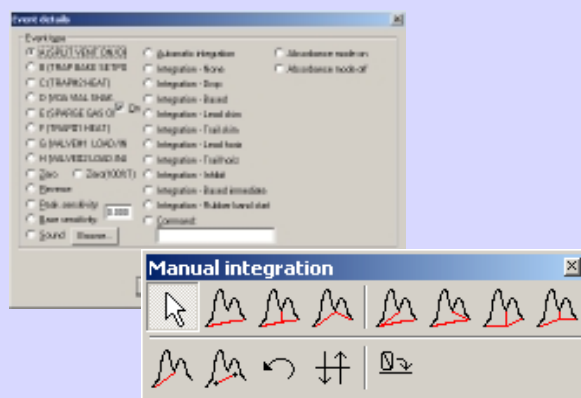
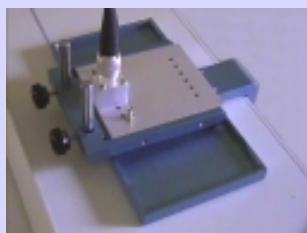


Radioactivity Detectors for TLC plates, Strips, Gels, Blots



## Features

- Occupies 8.5 "(21.5 cm) bench space
- Low cost and low maintenance system
- Fast lane analysis under 1 min.
- Collimators for 5 - 50 mm lanes
- Optional upgrade allows same software to be used for Radio-HPLC & GC (6)
- Linearity to 6 decades
- TLC quantitation without scraping
- Simple calibration and adjustment
- Programmable scan speeds
- Automated data analysis



### High energy Gamma & Positron detection

Using 2" (5.1 cm) diameter X 2" (5 cm) thick BGO scintillator

### All isotopes including $\beta$ and $^3\text{H}$

Using proportional gas flow counter with P-10 gas.

**Resolution:**  
0.5 - 1 mm

**Sensitivity:**  
 $^3\text{H}$  - < 500DPM    Others - <100 DPM

**Background:**  
<.1 CPM / mm

**Size/Weight:**  
8.5W X 5H X 18D / 15 Lbs

$^3\text{H}$ ,  $^{14}\text{C}$ ,  $^{35}\text{S}$ ,  $^{32}\text{P}$ ,  $^{123}\text{I}$ ,  $^{125}\text{I}$ ,  $^{131}\text{I}$ ,  $^{99}\text{Tc}$ ,  $^{137}\text{Cs}$ ,  $^{18}\text{F}$ ,  $^{11}\text{C}$ , etc.

**Applications in Radiochemistry, P.E.T. Labs, Nuclear Medicine, Pharmaceutical Labs, Drug Metabolism, Lipid Analysis, Monitoring Radio-labelled compounds, etc.**

Shell, Jr. 4000 1D & 3D Chromatography software and controller with measurement of:

- Digital data recording + storage
- Int./Ext. Standardisation
- Automatic range selection
- No overwriting and no data loss
- Manual range setting
- Auto/man. run time setting
- Time interval 1 - nnn sec.
- Selectable smoothing
- Auto/man peak detection
- Auto/man peak integration
- Auto/man base line detection
- Auto/man report generation
- Autosampler Queue and Batch Reprocessing
- Baseline Subtraction
- Multi-level Calibration Curves
- Manual/Automatic External Event Control
- Dynamic Data Exchange ( DDE )
- Merge Results from Multiple Channels
- Data Smoothing
- Calibration Averaging
- Method file development
- Method files storage