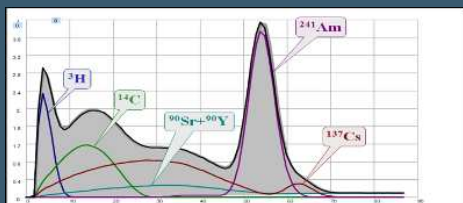
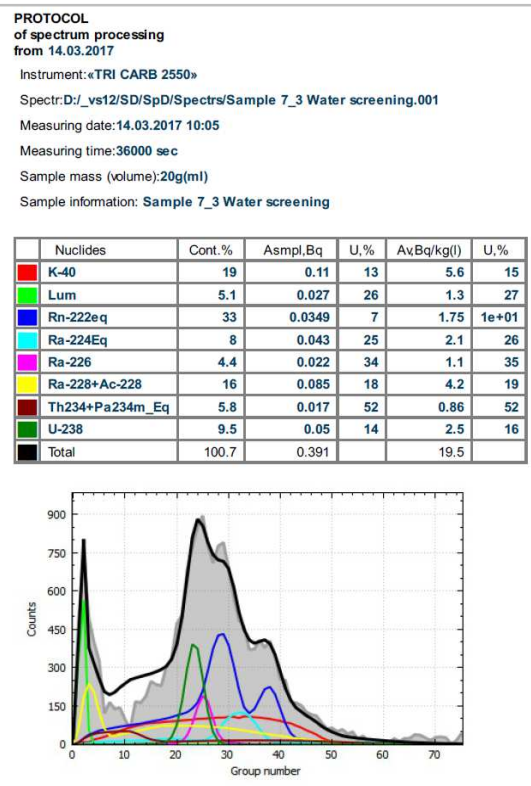


SpectraDec software for liquid scintillation analysis



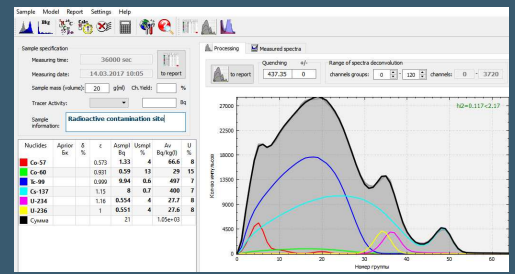
FEATURES

- Software allows users to provide radionuclide analysis of samples measured on all types of liquid scintillation spectrometers
- rapid processing in the automatic mode of spectra with small statistics, with poor resolution and with a significant overlap in the energy spectra of constituent radionuclides
- the processing is based on mathematical modeling of the measured spectrum by the spectra of individual radionuclides from a pre-prepared library
- the possibility of modeling the missing library spectra from the available spectra
- availability of the measurement techniques used on liquid scintillation spectrometers
- rapid test (without radiochemical preparation) of the activity of α - and β -emitters
- procedure of the automatic and manual quenching correction, including the application of an external standard
- accounting for activity of radionuclide used as a label
- possibility of self-modeling of the spectrum by the operator, as well as taking into account of a priori activity of radionuclides in the mixture
- formation of preliminary sets of the calculated radionuclides
- the report editor allows you to create the resulting document in accordance with any user requirements and save it in various formats (html, pdf)
- availability of the user and administrator modes



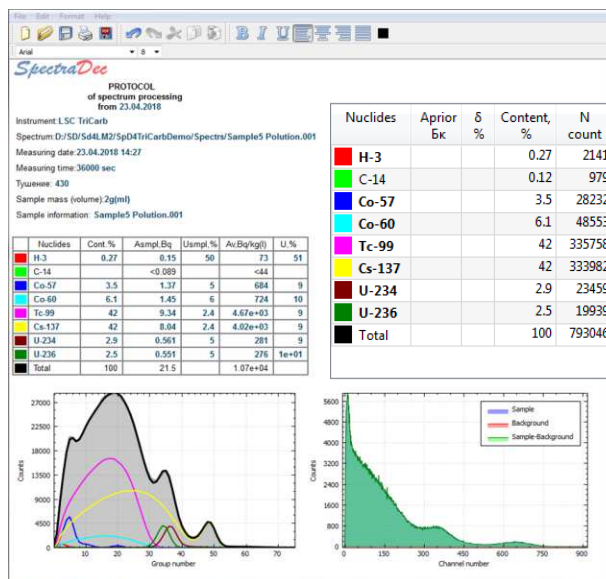
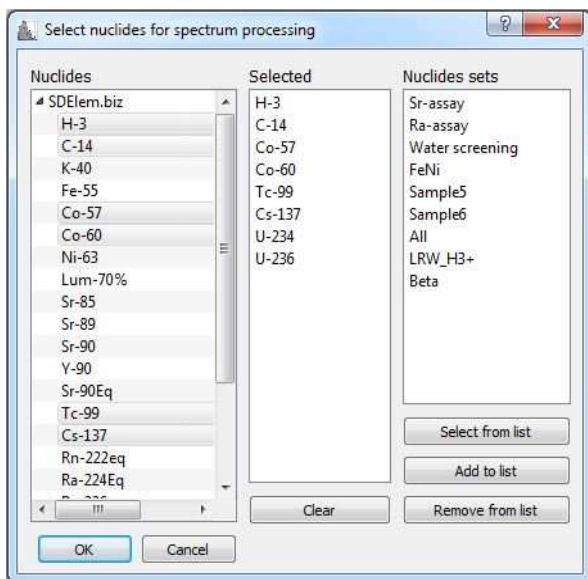
SpectraDec

Software for liquid scintillation analysis



APPLICATION

- Monitoring of natural radionuclides (^{226}Ra , ^{228}Ra , ^{228}Th , ^{222}Rn , ^{210}Pb , ^{210}Po , ^{234}U , ^{238}U) and technogenic (^3H , ^{14}C , ^{90}Sr , ^{89}Sr , ^{137}Cs , ^{241}Pu , ^{36}Cl , ^{129}I , ^{85}Kr , ^{99}Tc , Pu) radionuclides in environmental objects (air, soil, water, sediments, foliage, etc.) at background levels
- Rapid analysis of various radionuclides in the environment under the control of emissions and discharges of non-nuclear-cycle enterprises (coal, oil and gas fields, power plants)
- Monitoring of technogenic radionuclides in emissions and discharges of enterprises of the nuclear cycle (^3H , ^{85}Kr , ^{89}Sr , ^{90}Sr , ^{99}Tc , ^{129}I , ^{241}Pu ...), as well as in radioactive waste
- Radiation monitoring of sources of drinking water supply and food products
- Monitoring of the content of various radionuclides in technological environments at nuclear cycle plants – rapid analysis by screening method without radiochemical preparation or with minimal simplified preparation
- Measurements of airborne content, as well as internal contents of various radionuclides of personnel at nuclear cycle facilities
- Determination of gross α - β activity in various objects
- Precise analysis of radon and thoron in indoor air
- Quality inspection of isotope products
- Control of radioisotope tracers in medical and biological research



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