

Our services

ALPHA AND BETA COUNTING

« A laboratory for environmental monitoring and deconstruction »

Non-contamination control

analysis of liquid or smear samples, indirect alpha and beta measurements, compliance with release thresholds

Global alpha/beta index

low noise proportional counter and automated sample changer

Liquid scintillation counting

low energy beta emitters, 3H or 14C and rapid rendering of results

Since alpha or beta radiation is not very penetrating, its detection requires a sample preparation phase. For liquids, this can be evaporation in the case of global alpha/beta counting, or dilution in the case of liquid scintillation counting.

ATRON Metrology implements the appropriate sampling and measurement resources to achieve low detection limits:

- $<0.4 \text{ Bq/cm}^2$ in beta and $<0.04 \text{ Bq/cm}^2$ in alpha on 100 cm^2 smears
- $<0.1 \text{ Bq/L}$ in beta and $<0.01 \text{ Bq/L}$ in alpha on liquid samples

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