

# Tracer Passive Analysis of Various Radioactive check sources

- Cd-109 Tracer Rh2 passive baseline 4000s no xray 12-22-11
- Co-57 Tracer Rh2 passive baseline 4000s no xray 12-22-11
- Co-60 Tracer Rh2 passive baseline 4000s no xray 12-22-11
- Cs-137 Tracer Rh2 passive baseline 4000s no xray 12-21-11
- Mn-54 Tracer Rh2 passive baseline 4000s no xray 12-22-11
- Na-22 Tracer Rh2 passive baseline 4000s no xray 12-22-11
- Tracer Rh2 passive baseline 60000s no xray 11-23-11
- unknown standard Tracer Rh2 passive baseline 4000s no xray

## Method:

1. To do radioactive analysis of radioactive material with the Tracer simply cover the infrared proximity sensor on the nose of the instrument with black tape.
2. This will permit one to activate the system spectrometer with out activating the x ray tube source.
3. When an atom decays from one element to another it **always** emits the characteristic x rays of the element it is decaying to. These x rays are easily detected by the Tracer.
4. Thus one can determine exactly what radioactive elements are present by looking at the x ray emission spectra taken by the Tracer.

Examples of x rays from Radioactive sources listed, easily detected by the Tracer.

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Can you sort out which element decays to which element? Use the color code and the labels on the chart!

