

<b>GAMMA EMITTING RADIONUCLIDES</b>	
<b>Test Description</b>	Determination of gamma photons emitted from radionuclides.
<b>Test Use</b>	Useful for evaluating water, milk, sediments, solid media, fish, vegetation, wipes, and air samples collected on charcoal cartridges and filters.
<b>Test Department</b>	Radiochemistry: Phone 860-920-6668/6669 Fax 860-920-6670
<b>Methodology</b>	EPA Method 901.1: Gamma Spectroscopy
<b>Availability</b>	Year-round
<b>Sample Requirements</b>	For Liquid Samples: One (1) sample collected in a pre-cleaned plastic or glass Chem Bottle. One (1) Field Blank per collection trip
<b>Container type /Preservative</b>	For liquid samples: ½ gallon plastic or glass Chem Bottle No Preservative
<b>Collection Instructions (Note 1)</b>	For taps, remove aerators and let water run 4-5 minutes. For outdoor locations, sampling location should be in accordance with a preapproved quality assurance project plan.
<b>Sample Holding Time &amp; Transport</b>	Samples must be received by the lab within 5 days of collection.
<b>Unacceptable Conditions</b>	Incomplete requisition form. Insufficient sample volume. Samples received beyond the 5-day holding time.
<b>Requisition Form</b>	Use the Organic/Radiation Chemistry requisition form.
<b>Required Information</b>	Fill out entire requisition form.
<b>Limitations</b>	Samples to be tested for Iodine-131( <sup>131</sup> I) will be rejected if received by the lab more than 5 days after collection. Samples to be tested for other radionuclides may be analyzed up to a holding time of 6 months if they have been acidified either in the field or at the laboratory within 5 days of collection.
<b>Additional Comments</b>	The CT PHL is capable of reporting a wide range of photon emitters with this method.

Note 1: See *New England States Environmental Sampling Guide*, latest edition.

<https://www.epa.gov/sites/production/files/2015-06/documents/NE-States-Sample-Collection-Manual.pdf>