

Table E: Measuring and sampling devices and the frequency of stability tests of their parameters, and calibration.

Network	Type of measuring or sampling device (example)	Description of the parameters of measuring or sampling device	Frequency of	
			Stability test of parameters	Calibration ¹⁾
<i>Early Warning Network</i>	Stationary measuring device at the measuring site	Continuous measurement of PPDE in the range of tens of nSv/h to units of Sv/h; it consists of a control and detection unit (probe); the control unit controls the measurement of the probe, stores the measured values and transmits them to the Data Centre of the SÚJB	Continuously	Once a year
<i>Network of integral measurement</i>	Integral dosimeters at the measuring site and laboratory evaluation device	PPDE determination on the basis of the measurement of PDE and integration time; integral dosimeters (most often TLD) have the form of the cartridges fitted with several filters and passive detectors; the dosimeters used correspond to the laboratory evaluation device used (most often TLD reader)	Once a quarter	Once a quarter
		EOAR	Once a month	
<i>Network of instantaneous measurement</i>	Portable measuring device for measuring the dose rate	Dose rate of gamma radiation together with beta radiation in the range from tens of nGy/hour to tens of mGy/h; the measuring device includes a removable screen which enables the shielding of beta radiation	Once a month	Not performed
		Spot measurements of dose rate in the range from tens of nSv/h to tenths up to units of Sv/h	Continuously	At the beginning of the measurement
<i>Network of spectrometry measurement</i>	Portable measuring device for measuring the energy spectrum of gamma radiation in the field	Measurement of the energy spectrum of gamma radiation at a selected time interval in the range from 100 to 3000 keV	Once a month	E – at the beginning of the measurement; U – once a year

¹⁾ Energy and efficiency calibration; if done with a different frequency, it is indicated with letter E or U in the column.

Network		Type of measuring or sampling device (example)	Description of the parameters of measuring or sampling device	Frequency of	
				Stability test of parameters	Calibration ¹⁾
<i>Network of monitoring routes</i>		Portable measuring device in a land vehicle	During the ride, it records the dose rate, geographic coordinates of measurement and measurement time at a selected time interval	Once a month	Not performed
		Portable measuring device in an air vehicle	During the flight, it records the dose rate and energy spectra of gamma radiation for the 1s in the range from 300 to 3000 keV, geographic coordinates of measurement and measurement time at a selected time interval	Twice a year	E – at the beginning of the measurement; U – once a year
<i>Network of food chain and environmental sampling including discharges</i>	<i>Gamma spectrometry</i>	Spectrometric routes (semiconductor detector, amplifier, analyzer)	Measurement of the energy spectrum of gamma radiation at a selected time interval in the range from 50 to 3000 keV	Always when samples are exchanged	E – weekly; U – yearly
	<i>Beta spectrometry</i>	Gaseous proportional counter	Integral measurement by means of a proportional counter	Always when samples are exchanged	Once in two years
		LSC (liquid scintillation counting)	Measurement of the energy spectrum of beta radiation at a selected time interval in the range from 50 to 3000 keV		
	<i>Alpha spectrometry</i>	Alpha spectrometric routes (semiconductor detector, amplifier, multi-channel analyzer)	Measurement of the energy spectrum of alpha radiation at a selected time interval in the range from 10 to 9000 keV	Always when samples are exchanged	Once in two years
<i>Network of human body measurement</i>	<i>Gamma spectrometry</i>	Spectrometric routes (semiconductor detector, amplifier, analyzer)	Measurement of the energy spectrum of gamma radiation at a selected time interval in the range from 50 to 3000 keV	Continuously	Once a quarter
	<i>Measurement of iodine content in thyroid</i>	Portable measuring devices for measuring the content of iodine in thyroid	Detector with an adjustable energy window for iodine	Continuously	Once a year
<i>Closure</i>		Portable measuring devices for measuring the dose rate	Dose rate in the range from tens of nSv/h to tenths up to units of Sv/h; with sufficiently fast response	Continuously	Once in two years

Network	Type of measuring or sampling device (example)	Description of the parameters of measuring or sampling device	Frequency of	
			Stability test of parameters	Calibration ¹⁾
	Portable measuring devices for surface contamination	Values from tenths to thousands of Bq/cm ² , measurement of different radionuclides in an emergency exposure situation; beta radiation shielding	Continuously	Once in two years