

Amount of substance, Water, Russian Federation, VNIIM (D.I. Mendeleev Institute for Metrology, Rostekhnregulirovaniye of Russia)



The expanded uncertainty range is expressed as the uncertainty of the smallest value of the quantity to the uncertainty of the largest value of the quantity.

NMI Service Identifier	Measurement Service Sub-Category	Matrix	Measurand		Dissemination Range of Measurement Capability			Range of Expanded Uncertainties as Disseminated						Mechanism(s) for Measurement Service Delivery	Comments
			Analyte or Component	Quantity	From	To	Unit	From	To	Unit	Coverage factor	Level of confidence	Is the expanded uncertainty a relative one?		
5.3-001	Sea water	sea water	sodium	Mass fraction	5	30	g/kg	5	2	%	2	95%	Yes	Calibration plus SM 07.01.001	Approved on 27 March 2013
5.3-002	Sea water	sea water	magnesium	Mass fraction	0.5	5	g/kg	3	2	%	2	95%	Yes	Calibration plus SM 07.01.007	Approved on 27 March 2013
5.3-003	Sea water	sea water	strontium	Mass fraction	5	20	mg/kg	7	5	%	2	95%	Yes	Calibration plus CRM 5235-90	Approved on 27 March 2013
5.3-004	Sea water	sea water	chloride	Mass fraction	1	100	g/kg	3	2	%	2	95%	Yes	Calibration plus SM 07.02.003	Approved on 27 March 2013
5.3-005	Sea water	sea water	sulfate	Mass fraction	1	50	g/kg	7	5	%	2	95%	Yes	Calibration plus SM 07.02.004	Approved on 27 March 2013
5.1-02	Fresh water	fresh water	calcium	Mass fraction	0.010	100	mg/kg	10	6	%	2	95%	Yes	Calibration plus SM 07.01.017	Approved on 27 March 2013
5.1-03	Fresh water	fresh water	lead	Mass fraction	1.0	300	ng/g	5	3	%	2	95%	Yes	Calibration plus SM 07.01.009	Approved on 27 March 2013
5.1-04	Fresh water	fresh water	nickel	Mass fraction	1.0	1000	ng/g	7	5	%	2	95%	Yes	Calibration plus SM 07.01.004	Approved on 27 March 2013
5.1-05	Fresh water	fresh water	cadmium	Mass fraction	0.05	15	ng/g	5	4	%	2	95%	Yes	Calibration plus SM 07.01.013	Approved on 27 March 2013