SWEDAC
Styrelsen för ackreditering och teknisk kontroll
Swedish Board for Accreditation and Conformity Assessment

Appendix 1

Date 2024-04-29

Reference 2023/2179

Scope of accreditation

Testing according to SS-EN ISO/IEC 17025:2018

Radonova Laboratories AB | Uppsala | Accreditation number | 1489

A003783-001

Activity measurement

Technical area	*Parameter*	*Method*	*Technique*	*Measure*	*Material*	*Field*	*Note*
	Radon	**SS-EN ISO 11665-5:2020**	**Continuous radon monitor with semiconductor detector**	**10-100000 Bq/m3**	**Air**	**No**	**SPIRIT instrument**
		SS-ISO 11665-11:2016	Track film measurements, Image analysis	1000 - 1000 000 Bq/m3	Air	No	Markluft/Radon in soil. Tvåpositionsdetektor/Two position detector - Duotrak
		SS-ISO 11665-4:2021	Track film measurements, Image analysis	10-25000 Bq/m3 (3 mån. exp.)	Air	No	
			Track film measurements, Image analysis	10-30000 kBqh/m3 (80-250000 Bq/m3 120 timmars exp.)	Air	No	Tvåpositionsdetektor/Two position detector - Duotrak
			Track film measurements, Image analysis	50-150000 Bq/m3 (7 dygns exp.)	Air	No	
	Radon, advisory shortterm measurements, dwellings	**SS-EN ISO 11665-5:2020/SSM method - Radon in dwellings, 2013**	**Continuous radon monitor with semiconductor detector**	**10-100000 Bq/m3**	**Air**	**No**	**SPIRIT instrument. If requirements from long-term measurements are fulfilled, annual average can be calculated.**

Technical area	*Parameter*	*Method*	*Technique*	*Measure*	*Material*	*Field*	*Note*
	Radon, advisory shortterm measurements, dwellings	**SS-EN ISO 11665-5:2020/SSM method - Radon in workplace 2021**	**Continuous radon monitor with semiconductor detector**	**10-100000 Bq/m3**	**Air**	**No**	**SPIRIT instrument. The factor between radon concentration during working hours and the whole period is calculated.**
		SS-ISO 11665-4:2021/SSM method - Radon in housing, 2013	Track film measurements, Image analysis	50-150000 Bq/m3 (7 dygn. exp.)	Air	No	
	Radon, dwellings, USA	**ANSI/AARST MAH-2023**	**Track film measurements, Image analysis**	**0.3-3000 pCi/L**	**Air**	**No**	
	Radon, Irland	SS-ISO 11665-4:2021/RPII, Protocol for measurement of radon i homes, October 2010	Track film measurements, Image analysis	10-25000 Bq/m3 (3 mån. exp.)	Air	No	
			Track film measurements, Image analysis	50-150000 Bq/m3 (7 dygns exp.)	Air	No	
	Radon, Kanada	SS-ISO 11665-4:2021/ CNRPP-AL-DF	Track film measurements, Image analysis	15-25000 Bq/m3 (3 mån exp.), 37-100000 Bq/m3 (10 dygns exp.)	Air	No	
	Radon, long term measurement, dwellings	SS-ISO 11665-4:2021/SSM method - Radon in housing, 2013	Track film measurements, Image analysis	20-25000 Bq/m3 (3 mån. exp.)	Air	No	
	Radon, Norway	SS-ISO 11665-4:2021/ Measuring procedure for radon in schools and day-care facilities, 2015	Track film measurements, Image analysis	10-20000 Bq/m3 (3 mån. exp.) 50-150000 Bq/m3 (7 dygns exp.)	Air	No	

Technical area	*Parameter*	*Method*	*Technique*	*Measure*	*Material*	*Field*	*Note*
	Radon, Norway	SS-ISO 11665-4:2021/Måleprosedyre for radon i boliger, 2013	Track film measurements, Image analysis	10-20000 Bq/m3 (3 mån. exp.) 50-150000 Bq/m3 (7 dygns exp.)	Air	No	
			Track film measurements, Image analysis	50-150000 Bq/m3 (7 dygns exp.)	Air	No	
	Radon, personal exposure	Inhouse method , SFMANM	Track film measurements, Image analysis	10-30 000 kBqh/m3	Air	No	Tvåpositionsdetektor/Two position detector - Duotrak
			Track film measurements, Image analysis	40-50 000 kBqh/m3	Air	No	
	Radon, Storbritannien	SS-ISO 11665-4:2021/PHE-CRCE-040:2018	Track film measurements, Image analysis	10-25000 Bq/m3 (3 mån. exp.)	Air	No	
			Track film measurements, Image analysis	50-150000 Bq/m3 (7 dygns exp.)	Air	No	
	Radon, USA	EPA,Protocols for Radon Measurement in Homes, 1993	Track film measurements, Image analysis	0,4 – 650 pCi/l (3 mån. exp.)	Air	No	
			Track film measurements, Image analysis	1-2 500 pCi/l (10 dygns exp.)	Air	No	
	Radon, workplaces	SS-ISO 11665-4:2021/SSM method - Radon in workplace 2021	Track film measurements, Image analysis	20-25000 Bq/m3 (3 mån. exp.)	Air	No	
	Radon, workplaces, schools, USA	**ANSI/AARTS MA-MFLB-2023**	**Track film measurements, Image analysis**	**0.3-3000 pCi/L**	**Air**	**No**	

Technical area	*Parameter*	*Method*	*Technique*	*Measure*	*Material*	*Field*	*Note*
Food analysis	Cesium, Cs-137	ISO 19581:2017	Gamma spectrometry	> 0,4Bq (1 h mättid) (2 Bq/kg för 200g prov)	Ash	No	
			Gamma spectrometry	> 0,4Bq (1 h mättid) (2 Bq/kg för 200g prov)	Biological materials/biota	No	
			Gamma spectrometry	> 3Bq (1 min mättid) (15Bq/kg för 200g prov)	Ash	No	
			Gamma spectrometry	> 3Bq (1 min mättid) (15Bq/kg för 200g prov)	Biological materials/biota	No	
Water analysis	Radon	ISO 19581:2017. Analysis of radon in water - method description, Swedish Radiation Safety Authority 2013	Gamma spectrometry	> 4Bq (15 min mättid) (20 Bq/kg för 200 ml prov)	Drinking water	No	

Changes in the scope of accreditation are in bold.