Accreditation Scope

FANR Secondary Standards Dosimetry Laboratory, NAL131
Calibration Laboratory, (ISO/IEC 17025:2017)

Abu Dhabi, Al Zafranah area next to Khalifa University, Abu Dhabi, United Arab Emirates

Issue Date: 26/12/2025 **Expiry Date: 05/12/2028**
Issue No: 6

Calibration Field/ Quantity/ Property	Measurand / Equipment	Measurement Range	Expanded Measurement Uncertainty (k=2)	Calibration Method (Standard/ Internal Procedure)	Permanent lab (P)/Client-site
Ionizing Radiation measurements	Air Kerma Rate / Radioprotection Dosemeter	(1.0E-6 – 0.04) Gy/h	1.4 - 2.4 %	ISO 4037:2019 with Cs-137 source	P
Ionizing Radiation measurements	Ambient Dose Equivalent Rate / Active Dosemeters	(2 – 50,000) µSv/h	4.7 - 5.2 %	ISO 4037:2019 with Cs-137 source, Free in Air	P
Ionizing Radiation measurements	Personal Dose Equivalent (in 10 mm depth) with angular dependence / Passive Dosimeters	(0.01 to 1,000) mSv	6.3%	ISO 4037:2019 with Cs-137 source, ISO slab phantom	P
Ionizing Radiation measurements	Personal Dose Equivalent (in 0.07 mm depth) with angular dependence / Passive Dosimeters	(0.01 to 1,000) mSv	6.3%	ISO 4037:2019 with Cs-137 source, ISO Rod or Pillar or Slab phantom	P

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Ionizing Radiation measurements	Personal Dose Equivalent (in 10mm depth) with angular dependence / Active Dosimeters	(0.01 to 1,000) mSv	4.7 - 6.6 %	ISO 4037:2019 with Cs-137 source, ISO slab phantom	P
Ionizing Radiation measurements	Personal Dose Equivalent Rate (in 10mm depth) with angular dependence / Active Dosimeters	(2 – 50,000) µSv/h	4.7 - 6.6 %	ISO 4037:2019 with Cs-137 source, ISO slab phantom	P
Ionizing Radiation measurements	Ambient Dose Equivalent with angular dependence / Passive Dosemeters	(0.01 to 1,000) mSv	6.3%	ISO 4037:2019 with Cs-137 source, Free in Air	P
Ionizing Radiation measurements	Air Kerma Rate / Diagnostic Dosemeters	(1.3 – 3.3) Gy/h	1.9%	IEC 61267:2005, X-Ray RQR Qualities, 50 kV to 150 kV	P
Ionizing Radiation measurements	Air Kerma Rate / Diagnostic Dosemeters	(0.2 – 0.5) Gy/h	1.9%	IEC 61267:2005, X-Ray RQA Qualities, 50 kV to 150 kV	P

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Ionizing Radiation measurements	Air Kerma Rate / Radioprotection Dosemeter	(3.6E-04 – 2.3E-02) Gy/h	1.9%	ISO 4037:2019 , X-ray N-Series, 40 kV to 300 kV	P
Ionizing Radiation measurements	Ambient Dose Equivalent Rate / Active Dosemeters	(200 – 10,000) µSv/h	4.5 - 4.9 %	ISO 4037:2019, X-ray N-Series, 40 kV to 300 kV, Free in Air	P
Ionizing Radiation measurements	Personal Dose Equivalent (in 10 mm depth) with angular dependence / Passive Dosimeters	(0.01 to 1,000) mSv	6.0%	ISO 4037:2019, X-ray N-Series, 40 kV to 300 kV, ISO slab phantom	P
Ionizing Radiation measurements	Personal Dose Equivalent (in 0.07 mm depth) with angular dependence / Passive Dosimeters	(0.01 to 1,000) mSv	6.0%	ISO 4037:2019, X-ray N-Series, 40 kV to 300 kV, ISO pillar, rod and slab phantoms	P
Ionizing Radiation measurements	Personal Dose Equivalent (in 10mm depth) with angular dependence / Active Dosimeters	(0.01 to 1,000) mSv	4.5 - 6.3 %	ISO 4037:2019, X-ray N-Series, 40 kV to 300 kV, ISO slab phantom	P

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Ionizing Radiation measurements	Personal Dose Equivalent Rate (in 10mm depth) with angular dependence / Active Dosimeters	(100 – 10,000) µSv/h	4.5 - 6.3 %	ISO 4037:2019, X-ray N-Series, 40 kV to 300 kV, ISO slab phantom	P
Ionizing Radiation measurements	Ambient Dose Equivalent with angular dependence / Passive Dosemeters	(0.01 to 1,000) mSv	6.0%	ISO 4037:2019, X-ray N-Series, 40 kV to 300 kV, Free in Air	P
Ionizing Radiation measurements	Personal Dose Equivalent (in 3 mm depth) with angular dependence / Passive Dosimeters	(0.01 to 1,000) mSv	6.3%	ISO 4037:2019 with Cs-137 source, ISO cylinder phantom	P
Ionizing Radiation measurements	Personal Dose Equivalent (in 3 mm depth) with angular dependence / Passive Dosimeters	(0.01 to 1,000) mSv	6.0%	ISO 4037:2019, X-ray N-Series, 40 kV to 300 kV, ISO cylinder phantom	P

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Ionizing Radiation measurements	Ambient Dose Equivalent Rate / Active Dosemeters (Neutron Measurements)	(20.0 - 2,323) µSv/h	8.7%	ISO 8529-1:2021 / 2:2000 / 3:2023, AmBe-241, Free in Air	P
Ionizing Radiation measurements	Personal Dose Equivalent (in 10 mm depth) with angular dependence / Active Dosimeters (Neutron Measurements)	(0.3 to 30) mSv	9.9%	ISO 8529-1:2021 / 2:2000 / 3:2023, AmBe-241, ISO slab phantom	P
Ionizing Radiation measurements	Personal Dose Equivalent (in 10 mm depth) with angular dependence / Passive Dosimeters (Neutron Measurements)	(0.3 to 30) mSv	9.9%	ISO 8529-1:2021 / 2:2000 / 3:2023, AmBe-241, ISO slab phantom	P
END					

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