ATOMTEX®
Instruments and Technologies for Nuclear Measurements and Radiation Monitoring

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CALIBRATION CERTIFICATE

Type: X-ray and gamma radiation dosimeter AT1123 Date of calibration: 15.06.2022.

S/N: *56557*

Measurement limits:
AT1123: γ 50 nSv/h – 10 Sv/h;

Measurement error:
AT1123: ±15%

Operating conditions:

- Air temperature	+19,8 °C
- Atmospheric pressure	98,5 kPa
- Relative humidity	72,2 %
- Gamma radiation background	94,2 nSv/h

The instrument is calibrated on; standard dosimetry facility AT-110, N 013 reg. N 40425-09, the Certificate of Compliance N C-B/15-11-2021/112536221 on 15.11.2021 issued by FGUP «D.I.Mendeleyev VNIIM», St. Petersburg, Russia); standard dosimetry facility AT-130, N 015, reg. N 44761-10, the Certificate of Compliance C-B/15-11-2021/112536213 on 15.11.2021 issued by FGUP «D.I.Mendeleyev VNIIM», St. Petersburg, Russia);

Calibration data

AT1123 (γ) s/n: 56557

Dose rate at check point $\dot{H}_{oi}(10)$	Radiation source number	Distance to source, *R, cm*	Dose rate measurement at check point, Background, *nSv/h*	Measured value $\dot{H}^{*}_{i}(10)$ H_1	H_2	H_3	Average value, $H_i(10)$	Relative gamma radiation dose rate measurement error θ_{npi}, %	Confidence limit of the intrinsic relative error Δ_i, % during calibration	Limits of intrinsic relative error, % not above
0,07 µSv/h	263	194.5	94,2	0,070	0,068	0,072	0,070	0,00	5,50	±15
0,7 µSv/h	0HA	228.6	94,2	0,71	0,68	0,70	0,70	0,00	5,50	
7 µSv/h	0HA	73.4	—	7,13	7,02	6,85	7,00	0,00	5,50	
70 µSv/h	9XK	158.8	—	69,4	70,0	67,6	69,0	-1,43	5,61	
0,7 mSv/h	9XK	51,0	—	0,68	0,69	0,73	0,70	0,00	5,50	
7,0 mSv/h	043	343.4	—	7,17	6,90	6,92	7,00	0,00	4,40	
70 mSv/h	043	110.3	—	71,6	71,9	66,4	70,0	0,00	4,40	
0,7 Sv/h	163	227.6	—	0,69	0,71	0,69	0,70	0,00	4,40	
7 Sv/h	163	73.3	—	7,02	6,93	6,75	6,90	-1,43	4,54	

Calibrated by: V. Pisarenko _____
(signature)

Technical control: N. Kurbatova _____
(signature)