

Radiation leakage monitoring

WORKPLACE: **Tescan, a.s., Libušina tř. 21, Brno-Kohoutovice**

MEASURED BY: **Mgr. Radim Kříž**

DATE OF MEASUREMENT: **February 26th, 2020**

IONIZING RADIATION SOURCE: **Electron microscope TESCAN MIRA, serial number 117-0113
Electron microscope TESCAN VEGA, serial number 119-0098***

MODIFICATION: **TESCAN VEGA COMPACT S5121,
TESCAN VEGA S5122, S5123, S5152, S5153
TESCAN MIRA S6122, S6123, S6152, S6153
TESCAN CLARA S8121, S8122
TESCAN MAGNA S9121, S9122**

RADIATION MONITOR: **Georadis RT-30G, sn. 2718, metrology verification certificate nr. 1054-PS-20381-18 valid till 31. 12. 2020**

SITUATION DESCRIPTION:

Measurement of ambient dose equivalent rate $H^*(10)$ on surface (ie. effective center of detector was within 10 cm from the surface of the radiation source) of electron microscop types S6122 and S5152.

IONIZING RADIATION SOURCE SETTINGS:

The highest exposition values were used

U = 30 kV, absorbed I = 0,400 μ A

* U = 30 kV, absorbed I = 0,266 μ A

RESULT OF MEASUREMENT:

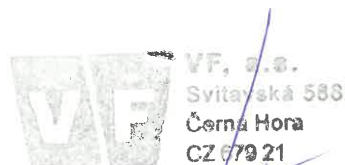
The highest measured value of $H^*(10)$ on surface of electron microscop types S6122 and S5152 did not exceed the highest measured value of the natural radiation background in place which was less than 130 nSv/h.

Categorisation of sources of ionising radiation (§ 12 Implementing degree No. 422/2016 of Coll. on Radiation Protection and Security of a Radioactive Source To § 61 (6) (a) of the Atomic Act No. 263/2016 of Coll.):

Non-significant source of ionising radiation.

Date: **February 27th, 2020**

Elaborated by: **Mgr. Radim Kříž**



11

signature