

CTVSN-LPM

Report No.: LPM 2020-1015-AT

Date: 4.11.2020

Page 1/7

## TEST REPORT ON MEASUREMENTS OF UVC ARTIFICIAL OPTICAL RADIATION

Applicant:	<b>WAVENETIC d.o.o.</b>
	Grško 6
	1211 Ljubljana - Šmartno
Measurements location:	<b>WAVENETIC d.o.o.</b>
	Podskrajnik 73a
	Cerknica
Date of measurements:	20. 10. 2020
Sent to:	1 x customer
	1 x archive ZVD

Measurements done by:	
Andraž Tancek	



Measurements results apply only to measured optical radiation sources that were measured on the day of measurement.  
Test report contains 7 pages and can be only copies as a whole.

## KAZALO

1	Measurement devices.....	3
2	Ambient conditions, time of measurement:.....	3
3	Optical radiation source.....	3
4	Measurement location.....	4

## 1 Measurement devices

Following measurement devices were used to make the measurements:

- optical spectrometer BLK-C-SR Black Comet SR,
- armoured fibre optic cable F600-VISNIR, 600  $\mu\text{m}$  core, 2 meter,
- cosine receptor CR2 Miniature UV-Vis-NIR and
- personal computer.

Measurements of ambient conditions were done with AHLBORN ALMEMO 2490-1L.

Measurements of optical radiation were done in accordance to procedures described in EN 14255-1:2005 in EN 14255-2 : 2006.

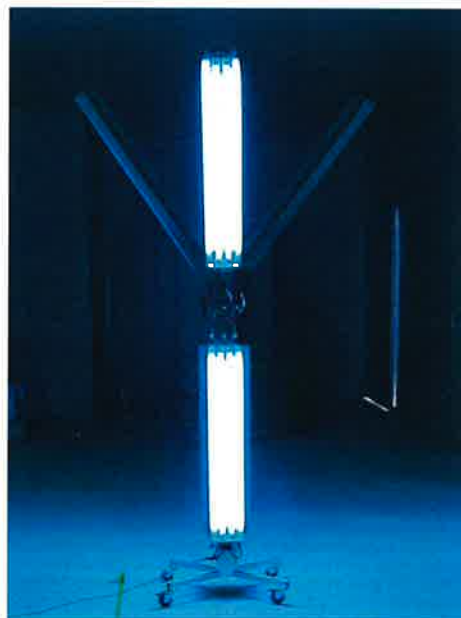
## 2 Ambient conditions, time of measurement:

Date:	20.10.2020
Time:	9:00 – 11:00
Temperature:	22°C
Relative humidity:	52%
Location:	Hall

## 3 Optical radiation source

Applicant WAVENETIC is manufacturer of portable UVD disinfecting device that is capable of disinfecting large open space areas by applying UVC radiation to optically accessible surface in open space. Measurements were done to determine power of optical radiation at different distances from device.

Device is fitted with UVC lights PHILIPS HNS 55 W G13 that radiate UVC wavelength at 254 nm.



Picture 1: Disinfection device with UVC lamps

#### 4 Measurement location

Measurements were done at following distances from centre of disinfection device: 1 m, 2 m, 3 m, 4 m, 5 m, 6 m, 7 m, 8 m, 10 m.



Picture 2: Distance 1 m



Picture 3: Distance 2 m



Picture 3: Distance 3 m



Picture 4: Distance 4 m



Picture 5: Distance 5 m



Picture 6: Distance 6 m

Test report on measurements of UVC artificial optical radiation  
LPM 2020-1015-AT



**Picture 7:** Distance 7 m



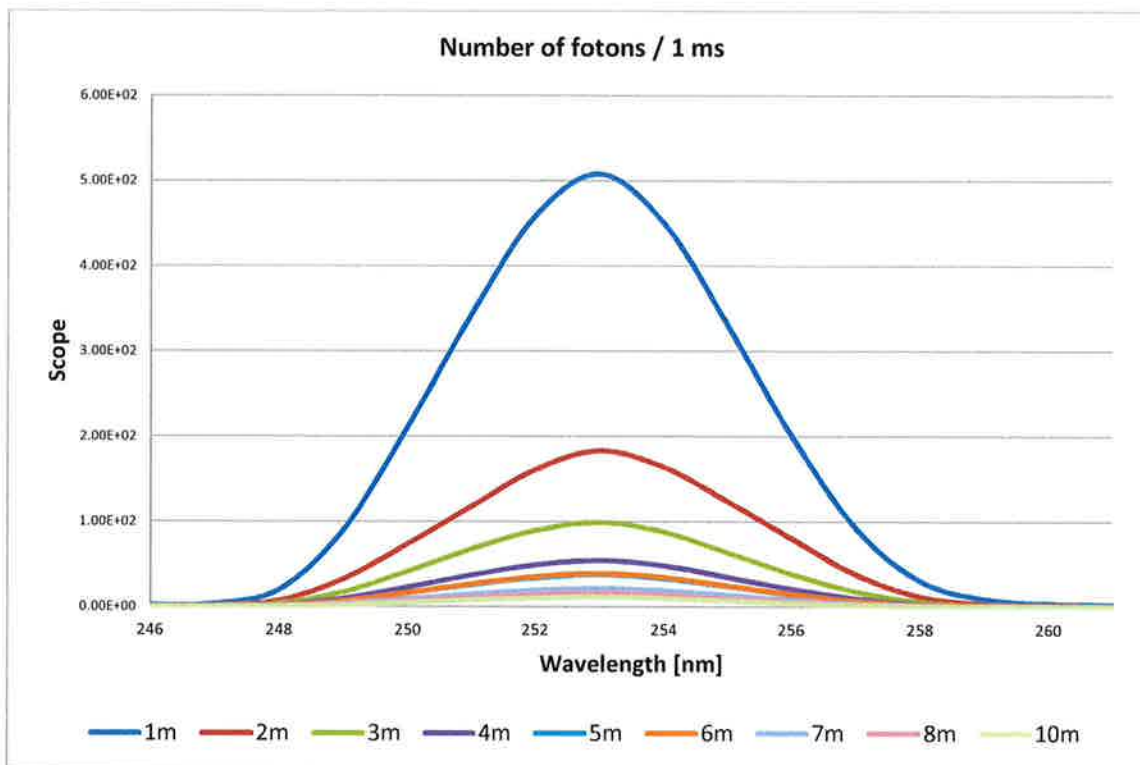
**Picture 8:** Distance 8 m



**Picture 9:** Distance 10 m

Measurement was captured in scope mode that means we checked number of fotons in specified time.

Graph show UVC radiation with top at 254 nm at different distances from disinfection device.



Test report on measurements of UVC artificial optical radiation  
LPM 2020-1015-AT

r [m]	No fotons
1	5.08E+02
2	1.83E+02
3	9.90E+01
4	5.45E+01
5	3.77E+01
6	3.92E+01
7	2.17E+01
8	1.59E+01
10	1.14E+01

