



NATIONAL ACCREDITATION SYSTEM OF THE REPUBLIC OF BELARUS  
 REPUBLICAN UNITARY ENTERPRISE  
 BELARUSIAN STATE CENTER FOR ACCREDITATION

Annex 1 to Accreditation Certificate  
 No. BY / 112 5.0065  
 dated January 9, 2015  
 on form No. 0006354  
 on 2 pages  
 Edition 01

**AREA OF ACCREDITATION**

dated November 25, 2015

Calibration Laboratory for Ultrahigh Frequency Measuring Instruments  
 Belarusian State University of Informatics and Radioelectronics

Item No.	Code of measurement area	Measurement quantities	Calibration objects	Calibration and measurement capabilities		Documents to regulate calibration methods (methodologies)
				range	expanded uncertainty U (k, P)	
1	2	3	4	5	6	7
1.1	26.51/99.016.2	Power	Power meters and power converters, generators,	10 $\mu$ W - 10 mW within 0,02 - 37,50 GHz	4,0 %	MK KL 03.3-2014 MK KL 04.3-2014
			scalar and vector network analyzers	1 mW - 10 mW within 0,02 - 37,5 - 178,6 GHz	4,0 %	
1.2	26.51/99.016.2	Efficiency factor	Power meters and power converters	0,8 - 1,5 within 0,02 - 37,50 GHz	4,0 %	MK KL 03.3-2014
1.3	26.51/99.016.2	Voltage Standing Wave Ratio (VSWR)	Power meters and power converters, generators, attenuators, scalar and vector network analyzers	1,03 - 5,00 within 0,01 - 2,14 GHz	0,040	MK KL 01.1-2014 MK KL 03.3-2014 MK KL 04.3-2014 MK KL 05.3-2014
				1,07 - 5,00 within 2,00 - 37,5 GHz	0,075	
				1,1 - 5,0 within 37,5 - 118,1 GHz 129,2 - 142,8 GHz	0,1 · K <sub>CTU</sub>	



Signature of Lead Accreditation Expert

10.01.2020  
 Date of TCA

Page 1 of 2



Annex 1 to Accreditation Certificate No. BY/112 5.0065

1	2	3	4	5	6	7
1.4	26.51/99.016.2	Decay (transmission factor)	Attenuators (inbuilt included)	0 - 100 dB within 0,1 - 2150,0 GHz	0,40 dB	MK KL 02.3-2014
				0 - 90 dB within 2,15 - 7,20 GHz		
				0 - 85 dB within 7,20 - 17,44 GHz		
				0 - 70 dB within 25,86 - 37,50 GHz	0,60 dB	
				0 - 70 dB within 37,5 - 178,6 GHz	0,70 dB	
1.5	26.51/99.016.2	Decay (transmission factor)	Scalar and vector network analyzers	0 - 50 dB within 0,1 - 6,85 GHz	1,2 dB	MK KL 01.1-2014
				0 - 70 dB within 6,85 - 78,33 GHz	0,20 dB	
				0 - 70 dB within 78,3 - 118,1 GHz	0,50 dB	
1.6	26.51/99.016.2	Phase shift	Vector network analyzers	0° - 180° within 0 - 4 GHz	2,0°	MK KL 01.1-2014
2.1	26.51/99.015	Frequency	Generators, scalar and vector network analyzers	10 Hz - 178,4 GHz	$5 \cdot 10^{-7}$	MK KL 05.3-2014

Head of Body for Accreditation of the Republic of Belarus  
Director of BSCA



Nikolaeva T.A.

  
(подпись ведущего эксперта по аккредитации)

Signature of Lead Accreditation Expert  
M.P

10.01.2020  
Date of decision