1. Major achievement(s) in support of standardization in laboratory medicine
   In 2018, FGUP VNIIOFI was developed, research and registered in the register of the Russian Federation the Primary reference method for measuring the mass concentration of immunoglobulin G (IgG) in blood serum by the method of immunoturbidimetry / immunonephelometry. Metrological characteristics of the Primary reference measurement procedure (with P = 0.95)
   Measurement range of the mass concentration of IgG, g /l  32.0-30.0
   Standard uncertainty U_A ,% 2.0
   Standard uncertainty U_B ,% 1.86
   Total standard uncertainty, U_c ,% 2.73
   Extended uncertainty with coverage coefficient k = 2, U,% 5.47.

   In 2019, FGUP VNIIOFI was developed, research and registered in the register of the Russian Federation:
   The reference materials of potassium, calcium, magnesium in blood serum (set)/
   Metrological characteristics:
   Mass concentration of potassium, g /l 30.10-0.250.8
   Molar concentration of potassium, mmol /l 33.0-6.5
   Mass concentration of calcium, g /l 30.06-0.150.8
   Molar concentration of calcium, mmol /l 1.5-3.5
   Mass concentration of magnesium, g /l 30.06-0.150.8
   Molar concentration of magnesium, mmol /l 31.5-3
   Extended uncertainty with coverage coefficient k = 2, U,% 0.8.

2. Planned activity(ies) in support of standardization in laboratory medicine
   FGUP VNIIOFI planned in 2020-2021 developed reference methods:
Reference method for measuring the molar concentration of magnesium in blood plasma by atomic absorption spectrometry with flame atomization
Reference method for measuring serum magnesium
Reference method for measuring the molar concentration of calcium in blood plasma by atomic absorption spectrometry with flame atomization
Reference method for measuring the molar concentration of calcium in blood plasma by atomic absorption spectrometry with flame atomization
Reference method for measuring the molar concentration of sodium in blood serum by atomic emission spectrometry with flame atomization
Reference method for measuring the molar concentration of calcium in blood serum by atomic absorption spectrometry with flame atomization

3. Promoting traceability in laboratory medicine
(Please describe activities your organization has undertaken during the last two years for promoting traceability in laboratory medicine including but not limited to a listing of your publication(s), presentation(s) and other communication(s) on traceability at international and national conferences or congresses, or other forums for clinical laboratory medicine)

III International Scientific Conference "Reference materials in Measurements and Technologies" - UNIIM from September 10, 2018 to September 13, 2018
DEVELOPMENT OF STANDARD REFERENCE MATERIALS IN THE LABORATORY MEDICINE. STANDARD MATERIALS OF ELECTROLYTES IN THE BLOOD SERUM

III International Scientific and Technical Conference "Metrology of Physical and Chemical Measurements" - VNIIFTRI Morozovka 2018
DEVELOPMENT OF STANDARD REFERENCE MATERIALS OF POTASSIUM, MAGNESIUM, CALCIUM CONTENT IN BLOOD SERUM

IV International Scientific and Technical Conference "Metrology of Physical and Chemical Measurements" - VNIIFTRI from September 16, 2019 to September 19, 2019
DEVELOPMENT OF REFERENCE METHODS OF MEASUREMENTS MASS (MOLAR) CONCENTRATION OF PROTEINS IN THE FIELD OF PHYSICAL AND CHEMICAL ANALYSIS OF BLOOD

4. FGUP VNIIOFI does not participate in the network of laboratory measurements. FGUP VNIIOFI is a member of SC5 / TC18 OIML “Measuring instruments for medical laboratories”.

5. Open questions and suggestions to be addressed by JCTLM
FGUP VNIIOFI we have no comments and suggestions