Sample description

Description	Active substance	Nominal Value
Blister(50 tabs) Tabletform – hexagone Label – UFC. Anabol 10 MG EXP. NOV/2018 (picture 1)	Methandrostenolone	10mg/tab

Picture 1 Sample appearance

Sample preparation for analysis

Preparation
Twotabletsweremilled. Powderwassolvedin 20mlofacetonitrilein 50mlPPtest tube. Filtered solution was used for analysis.

Toestimatecontentoftheactivesubstance
1.5mlofthefilteredsolutionwastransferredtopreliminaryweighedtesttubeand evaporated under vacuum.

Gravimetric analysis.

Sample	Масса, мг
Empty test tube (m_0)	1003.4
Testtubeafterevaporation(m_{fin})	1006.7
Weight of dried residue (m_s)	3.3
Weight of active substance per 1 tablet	10,9

Analysis

Chromatographic separation (GC).

Column: Tr-5ms, 30 m.
Carrier gas: helium.
Flow rate: 1.2 ml/min.
Split flow rate: 12 ml/min.
Split: 10.
Injector: PTVinjector, final temperature (transfer) 290 °C.
Inject 1ul.

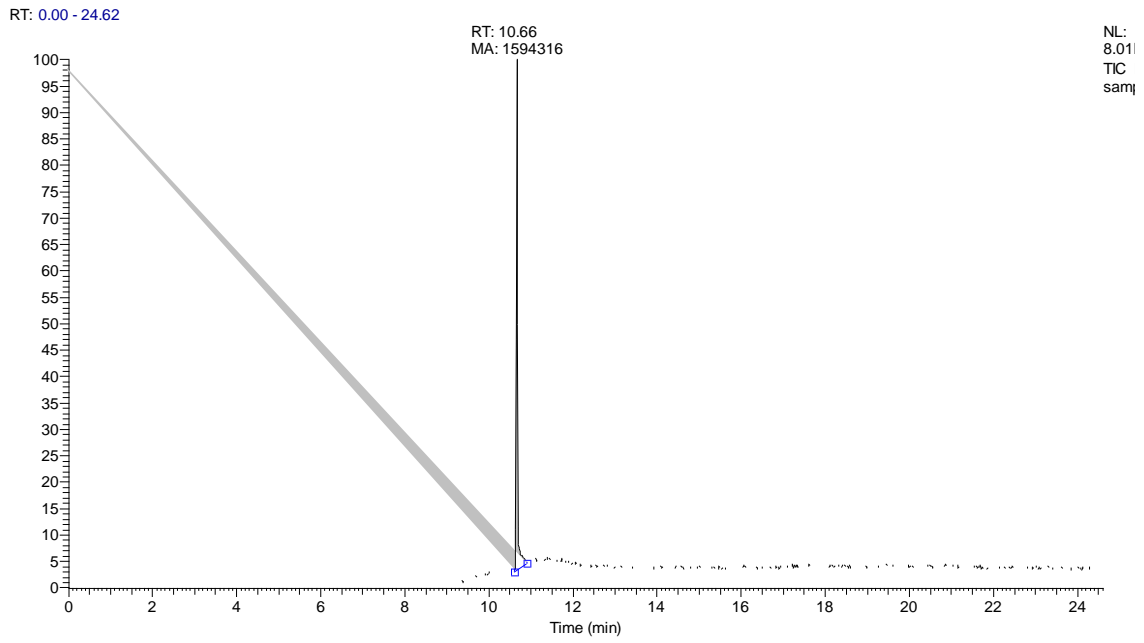Split program in table 3.

Table3 – splitprogram.

Ramp	Rate (°C/min)	Temp, °C	Hold
Initial		35	1.70
Ramp 01	30	41	2.00
Ramp 02	20	310	15

Mass-spectrometricdetector (ionictrap) wasusedfordetection (m/z 50-650).

Identification: DBNist, librarySWDrug.

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Sapmle

RT: 10.66
MA: 1594316

NL:
8.01
TIC
samp

sample_16 #417-420 RT: 10.63-10.68 AV: 4 NL: 2.49E4
T: + c Full ms [50.00-650.00]
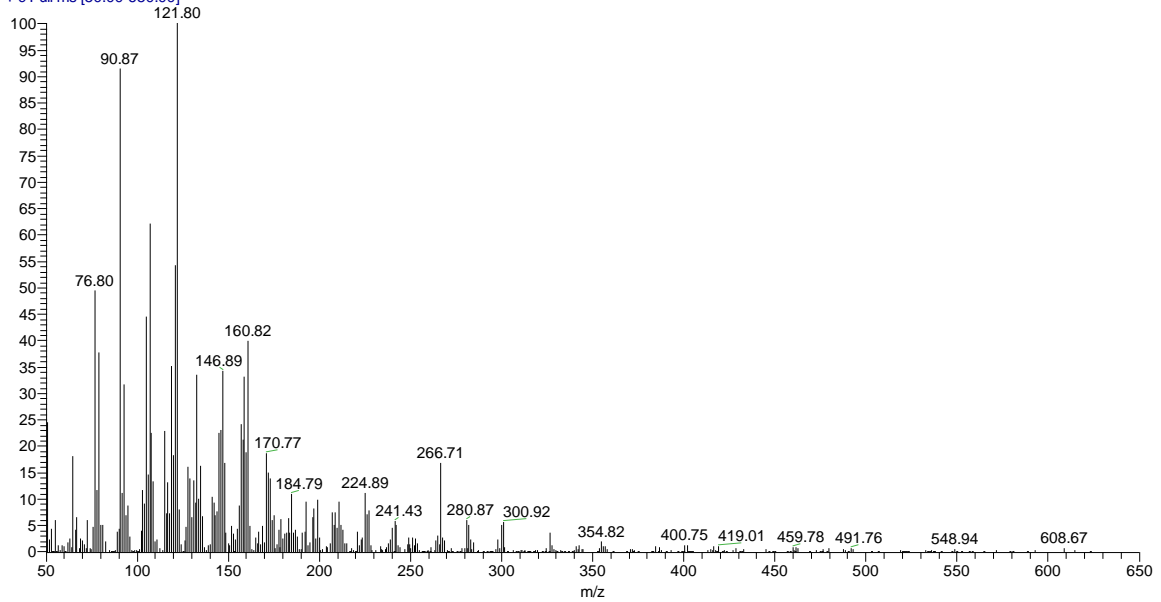
Picture2 – Chromatogramand mass-specter of the sample.Retention time of methandrostenolone10.66 min.
Mass-specterMW 300.

Results

Active substance	Content per tablet
methandrostenolone	10.9