

МИНИСТЕРСТВО ВНУТРЕННИХ ДЕЛ РОССИЙСКОЙ ФЕДЕРАЦИИ

ВОЛГОГРАДСКАЯ АКАДЕМИЯ

СУДЕБНАЯ ЭКСПЕРТИЗА

FORENSIC EXAMINATION

№ 2 (46)

ВОЛГОГРАД — 2016

НАУЧНО–ПРАКТИЧЕСКИЙ ЖУРНАЛ

СУДЕБНАЯ ЭКСПЕРТИЗА 2 (46) 2016

ISSN 1813-4327

2 (46) 2016 : - . .
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**СОСТАВ РЕДАКЦИОННОГО СОВЕТА
ЖУРНАЛА «СУДЕБНАЯ ЭКСПЕРТИЗА»**

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CYBER TRACES IN FORENSIC SCIENCE

The analysis of legal literature, investigational and judicial documentation shows that the cyber traces and material media of it are increasingly used as evidence in criminal cases. Scientific discussions are held about the content of the cyber traces, the ways of its creation, place of it inside forensic science and the ways of classification it. There are different points of view about it, sometimes assertion are opposite and mutually exclusive to each other. The authors are made a research of such definitions using present state of legislation of Russian Federation and forensic science.

Below are the conclusions the authors been drawn:

1. Cyber traces are data that relevant for investigation and might be processed by computer regardless of form of data or way to store and transfer it.
2. Cyber traces are invisible but have physical form. Informational traces might be created in any way of emergence of data that might be processed by computer.
3. Cyber traces might be stored and created in different ways it might be files, messages, electronic currency, electronic signature, database, software, site or page of it, etc.



4. In forensic science classification of cyber traces should be placed in own group between physical traces and virtual traces.

5. Typical physical representation of cyber traces is hardware. It may be hard disk drive, integrated microcircuits, combined documents, computers, information systems, informational network. It may be trace as an object or trace as a part of object.

Key words: cyber traces, electronic evidence, computer information, electronic signature, electronic documents, electronic messages, electronic currency.

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Single questions on development of the concept of the draft of the Federal law «About judicial and expert activity in the Russian Federation» which will allow to correct judicial and expert activity are considered, to increase quality of judicial examinations and legal proceedings in general.

Key words: judicial examination, judicial and expert establishment, expert, certification, competence, qualification, concept, bill.

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**ISSUES OF FORENSIC BALLISTICS
EXAMINATION OBJECT CONCEPT FORMATION**

In this article based on the analysis of the scientific notations of forensic examination and forensic ballistics general theory there have been revealed specific features of forensic examination objects. Material and indirectly material form of object repre-



sentation, procedural consolidation of it as a material evidence, and informative characteristic that allows to consider an object as a source of forensically important information on instant case have been mentioned by the author as such kind of features.

It is noticed that organized information about the kinds of forensic ballistics objects, formed by the author on groups like: items (goods), material marks and documents is a key to a success solution of scientific and practical tasks of forensic ballistics and forensic ballistics examination.

According to the results of the research there has been formed a definition of forensic ballistics examination as a material or materialized sources of information (items, material marks and documents) that are procedurally consolidation and/or used to solve expert tasks and express forensically important information about the firearm, gas-barrel weapon, special signal devices and non-battle stuff similar to firearm in its external and/or design concept, bullets, marks of shot and non-battle stuff.

Key words: forensic examination object, forensic ballistics, weapon, bullets, material marks, forensically important information, object's procedural consolidation.

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A. N. Bardachenko,
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of the Training and Scientific Complex of Expert Criminalistic Activities
of the Volgograd Academy of the Ministry of Interior of Russia, Candidate of Science (Law)



THE COMPARATIVE ANALYSIS OF HUNTING AND SPORTING WEAPONS TRACKS (5.6 mm CARTRIDGE CALIBER)

When committing crimes hunting and sporting cut weapon of 5,6 mm caliber is often used. While hunting, however, a great number of firearms handling accidents can occur. In the forensic-science literature there is a description of the usage of forensic traces of rifle TOZ-8M (5.6-mm caliber). The traces of a close shot on hedges of self-loading rifle TOZ-99 and self-loading rifle REMINGTON 597 have not yet been examined.

To eliminate the mentioned above gap the author of the article carried out an experimental study to determine the features appearing while close shooting on hedges of the given models of the weapons: the forms of damage, tissue defects, the characteristics of the edge damage and belt rubdown, the mechanical action of gunpowder gases, topography and deposits zone size of grime and gunpowder, mechanical and thermal action of gunpowder.

The article presents the results of the comparative analysis of the traces of bullets, cartridge cases and barriers formed by self-loading rifle TOZ-99 and self-loading rifle REMINGTON 597 (5.6-mm caliber) and rifle TOZ-8M.

The given data will be useful for forensic specialists while crime scene searching as well as for forensic scientists while forensic-ballistic examining to establish the circumstances of the use of firearms, and also for the cadets and the students while studying «Forensic Ballistics and Forensic Ballistics Examination» discipline.

Key words: self-loading rifle, traces of a close shot on hedges, gunpowder gases, cartridge cases and barriers.

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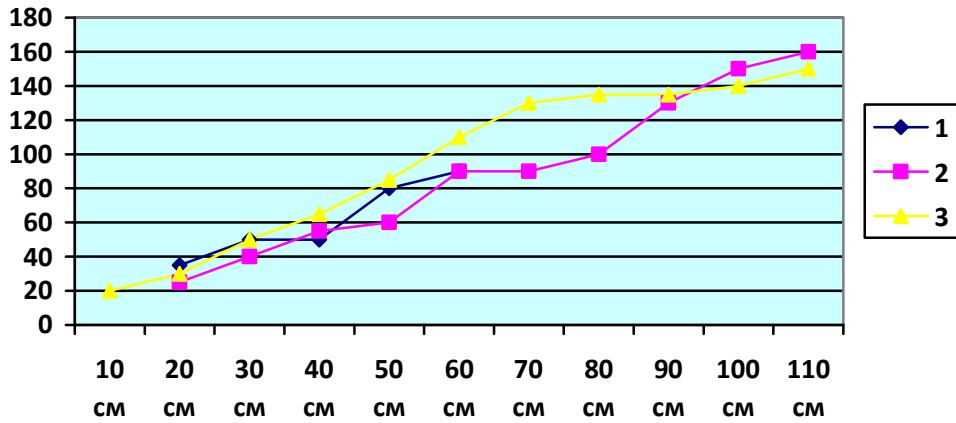
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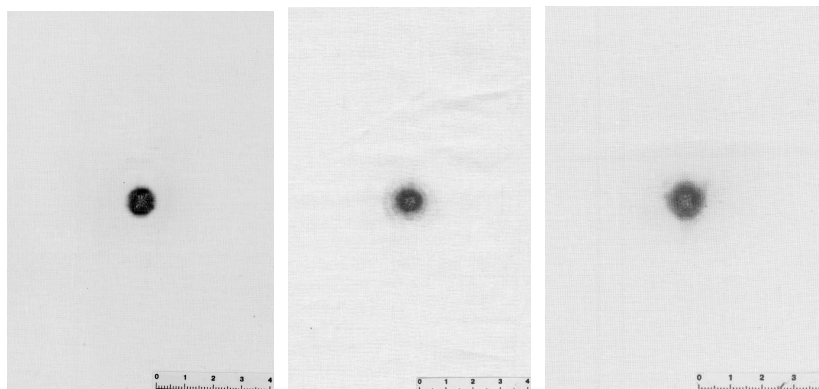
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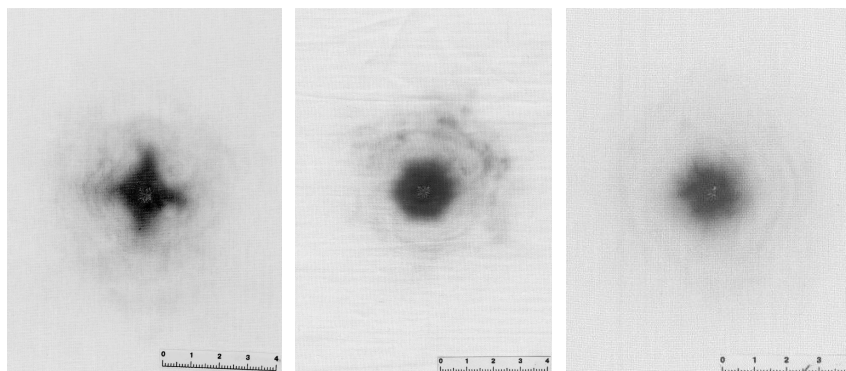
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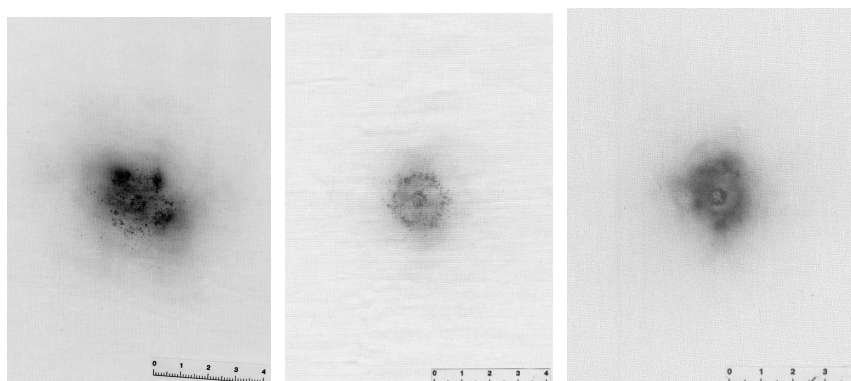
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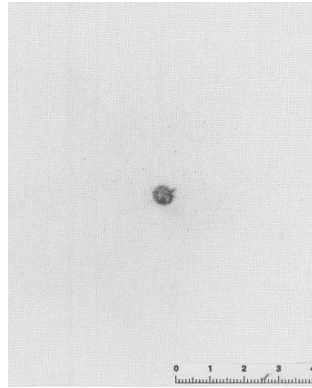
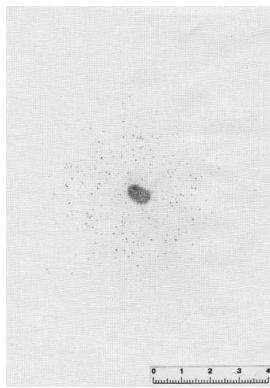
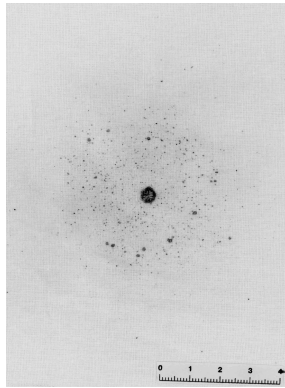
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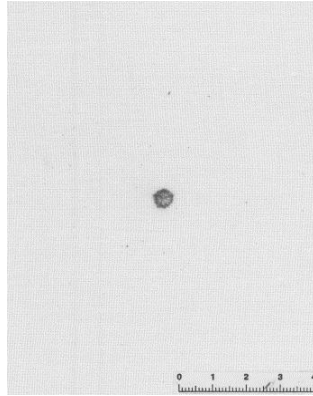
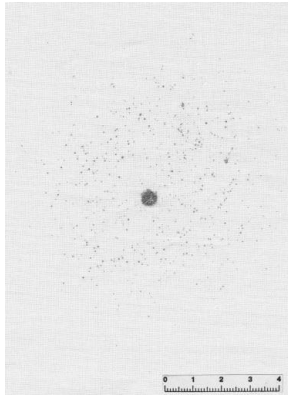
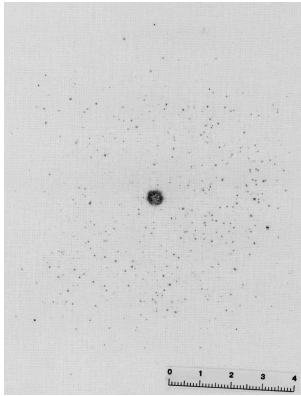
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CERTIFICATION FOR TEST OF CIVILIAN AND DUTY FIREARMS AS A SOURCE FOR ACQUISITION OF FORENSIC DATA: PROBLEMS AND WAYS TO SOLVE THEM

This article reviews the problems concerned with certification test civilian and duty firearms and ammunitions to them to meet forensic requirements set by the Russian ministry of the Interior with subsequent recording of their results. Solution for this issue provides for law enforcement agencies an opportunity to acquire a valuable source of forensic information suitable to improve reference materials and forensic records as well as to update a collection of reference samples of certified civilian and duty firearms and ammunitions to them. The author suggests some ways to solve this problem. The need to amend the law is analyzed. The author also reviews a possibility to introduce a unified standard for tests of civilian and duty firearms and ammunitions to them with establishing of form and duty to issue information cards to be performed by test laboratories. The author submits for consideration a suggestion to delegate the task of forensic test to meet requirements set by the Russian ministry of the Interior to relevant test laboratories.

Key words: certification, civilian firearms, duty firearms, firearms test, ammunitions test, forensic data, forensic accounting, administrative regulation.



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5. Ob utverzhdenii Pravil provedenija sertifikacii grazhdanskogo i sluzhebno go oruzhija: postanovlenie Gosstandarta RF ot 25 dekabrja 2000 g. 86. Dostup iz sprav.-pravovoj sistemy «Konsul'tantPljus».
6. Konvencija o vzaimnom priznanii ispytatel'nyh klejm ručnogo ognestrel'nogo oruzhija (vmeste s «Ustavom Postojanno j mezhdunarodnoj komissii po ispytanijam ručnogo ognestrel'nogo oruzhija (PMK)») (zaključena v g. Brjussele 01.07.1969). Dostup iz sprav.-pravovoj sistemy «Konsul'tantPljus».
7. O merah po regulirovaniju oborota grazhdanskogo i sluzhebno go oruzhija i patronov k nemu na territorii Rossijskoj Federacii: postanovlenie Pravitel'stva RF ot 21 ijulja



1998 g. 814 (vmeste s «Pravilami oborota grazhdanskogo i sluzhebnogo oruzhija i patronov k nemu na territorii Rossijskoj Federacii», «Polozheniem o vedenii i izdanii Gosudarstvennogo kadastra grazhdanskogo i sluzhebnogo oruzhija i patronov k nemu») (red. ot 06.05.2015). Dostup iz sprav.-pravovoj sistemy «Konsul'tantPljus».

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I. M. Fitsev,

Deputy Chief of Department for Special type
of Expertise Expert Criminalistic Center at Ministry of Interior of the Republic
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A. Kh. Mukhametzjanov,

Chief of Expert Criminalistic Center at Ministry
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**PILOT OPERATION OF CHROMATOGRAPHY Ì
MASS SPECTROMETRIC COMPLEX «CHROMATEC-CRYSTALL»
IN THE EXPERT CRIMINALISTIC CENTER OF THE MINISTRY OF INTERIOR
IN REPUBLIC TATARSTAN IN THE PREPARATION AND CONDUCT
THE XXVII WORLD SUMMER UNIVERSIADE GAMES Ì 2013 IN KAZAN**

The article presents the results of the pilot operation (validation), gas chromatography-mass spectrometric complex «Chromatec-Crystall» manufactured by ZAO SKB «Chromatec» (Yoshkar-Ola, Russia) in Expert Criminalistic Center of the Ministry of Interior of the Republic of Tatarstan, held on the basis of an agreement between ZAO SKB «Chromatec» and the Interior Ministry of the Republic of Tatarstan discussed. According to the results of trial operation GC-MS «Chromatec-Crystall» installed its high reliability and stable performance among similar devices imported in the study of objects forensic examination and decided whether equip these complexes in areas of special expertise the Expert Criminalistic Center of the Interior Ministry in the Republic of Tatarstan.

Key words: forensic identification, gas chromatography-mass-spectrometry, physical and chemical examination of drugs, chromatographic methods.

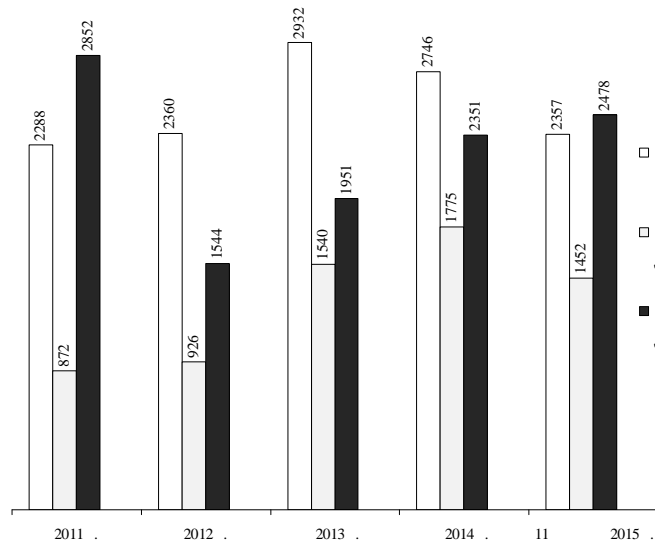
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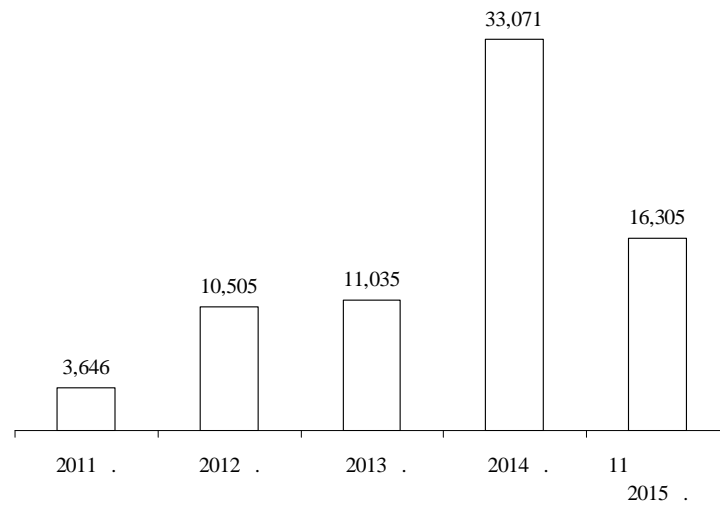
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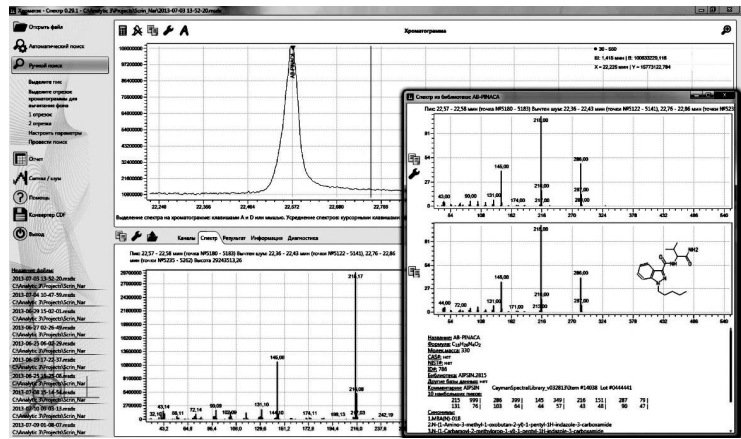
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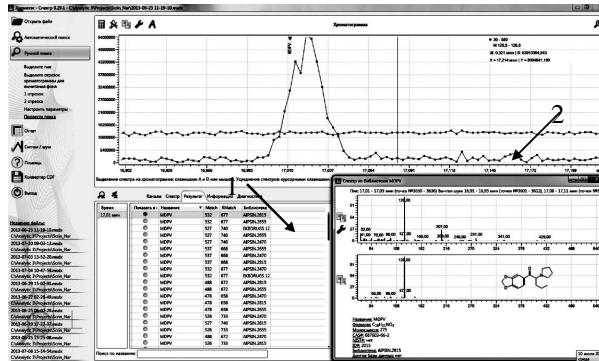
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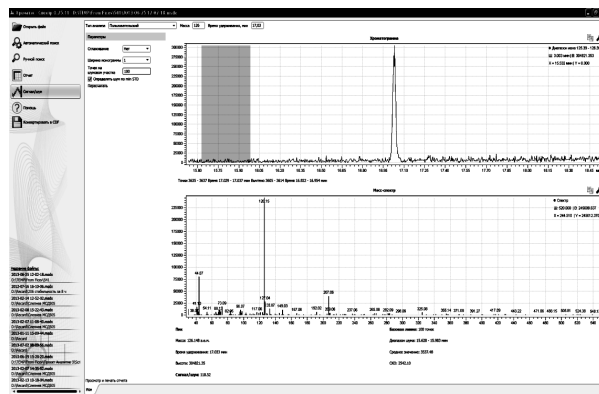
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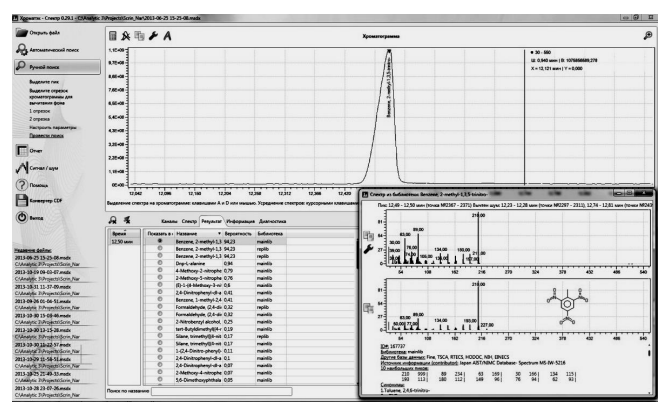
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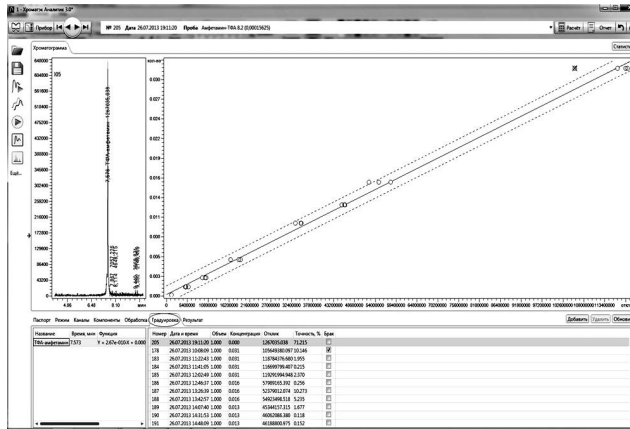
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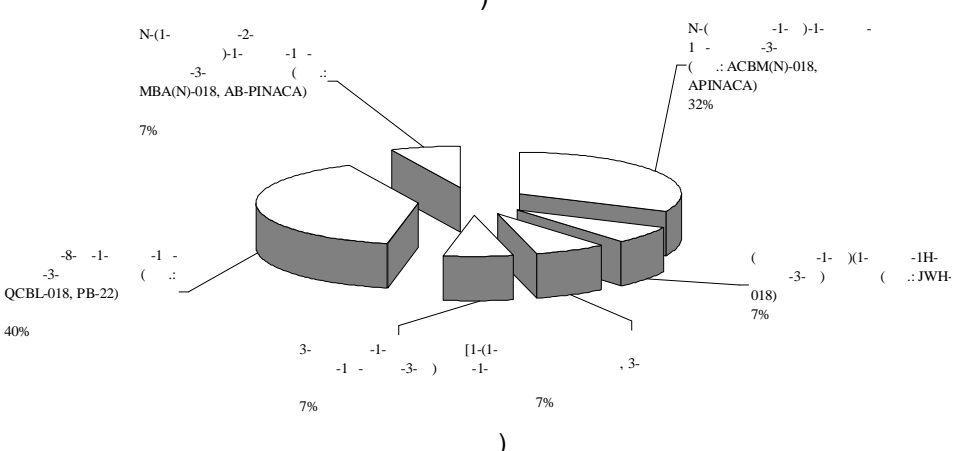
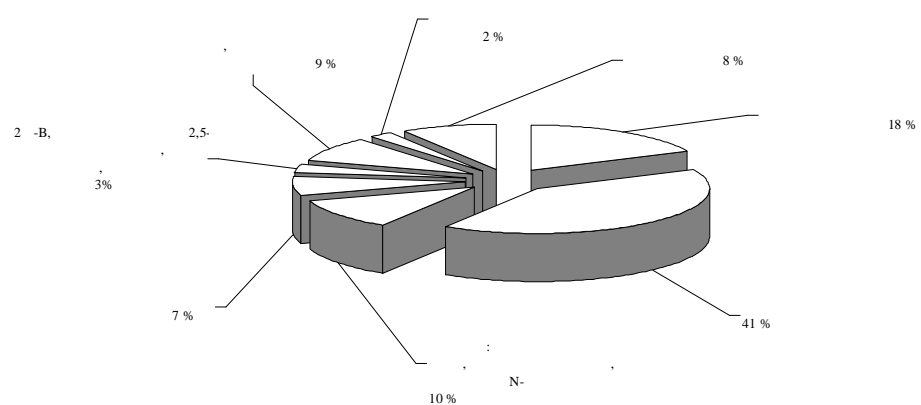
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**OPTICAL MICROSCOPY AS THE METHOD
OF EXAMINING DOCUMENT REQUISITES:
POSSIBILITIES AND LIMITS OF APPLICATION**

The article focuses on the possibilities of application of the method of optical microscopy in order to resolve some diagnostic problems of forensic technical examination of documents. The author emphasizes that the main advantage of this method implies obtaining diagnostic and identification information without damaging a document as real evidence. It gave grounds for including the stage of microscopic examination into the structure of any typical or particular methods of forensic technical examination of documents. The author shows possibilities to apply the method while differentiating strokes of document requisites created with inkjet printers with a different principle of obtaining an



image as well as advantages of the method when examining a morphological pattern of strokes of document requisites which were exposed to aggressive influence. Along with this, possibilities and limits of application of the method of optical microscopy while examining heterogeneous and homogeneous writing materials crossing sections are analyzed. The article represents examples of microscopic examination of strokes of a text exposed to thermal influence and influence of microwave radiation. The author gives grounds for applying the method of scanning electron microscopy in cases when optical microscopy gives no results. There is a conclusion that limited possibilities of the method of optical microscopy prove the necessity to study new hardware and software complexes on the basis of scanning electron microscopes in order to increase credibility of the obtained results and their evidential significance.

Key words: forensic technical examination of documents, document requisites, forgery, method, optical microscopy, microscopic examination, crossing strokes, microstructure of strokes, toner, ink, electron microscopy.

[1, . 109, 110].

[2, . 350—355; 3, . 107—117],

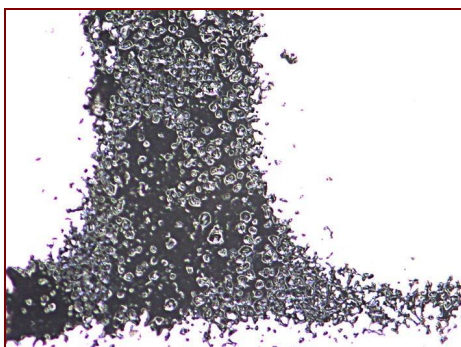
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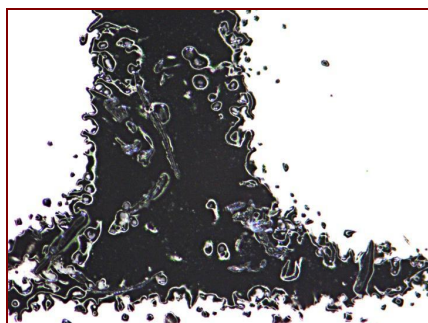


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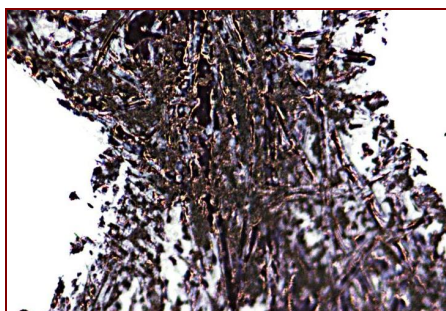


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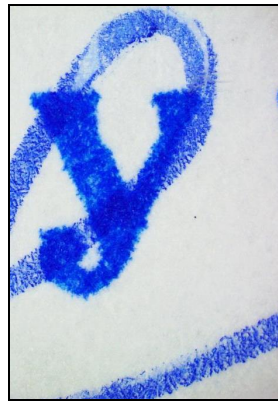
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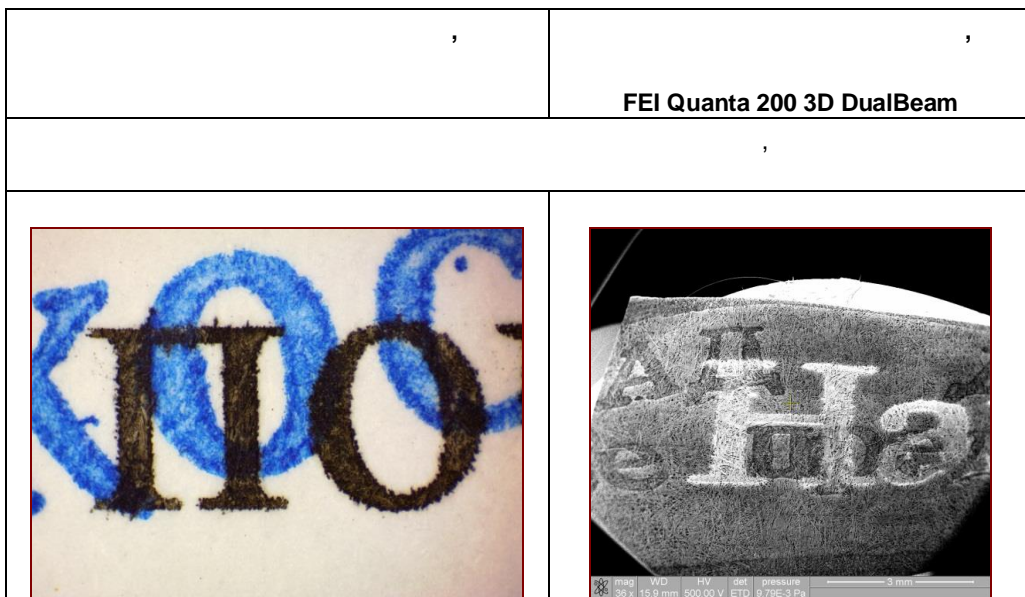
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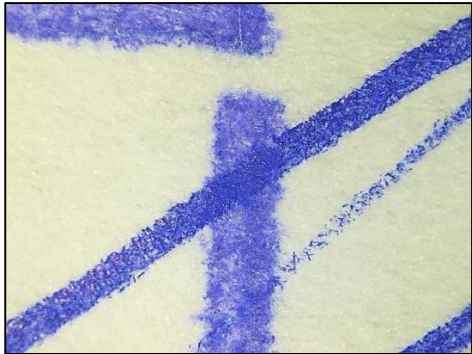
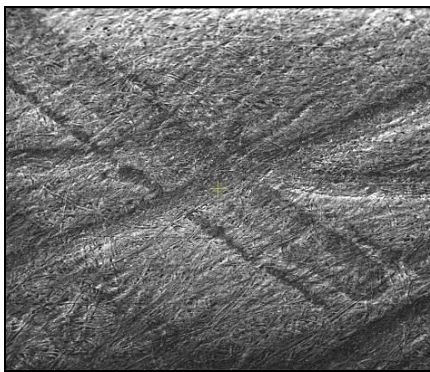

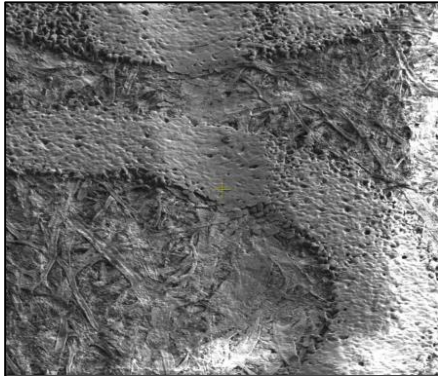


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edge in the field of information and communication technologies. The article indicated the problem of observance of norms of the criminal procedural law in the appointment of computer forensics to conduct a preliminary check to report the crime.

The author presents the basic requirements for questions that the investigator may put before the expert when assigning the computer forensics are the most common errors in question wording, which can lead to negative consequences.

Key words: computer forensics, expert, investigator, electronic device, computer, software objects, the resolution on appointment of the expertise.

[1, . 4].

[2, . 253].

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**DEFINITION OF PRESCRIPTION OF FORMATION
OF THE TRACE OF BLOOD ON INDICATORS OF SPECIFIC CONDUCTIVITY
(PILOT STUDY)**

In article data of experiment on modeling of traces of blood on fabrics (wool and cotton) with the subsequent definition of prescription of storage of these traces of blood on indicators of specific conductivity at frequencies of electric current of 100 Hz, 120 Hz, 1000 Hz, 10000 Hz are analyzed. Studying of specific conductivity was carried out by the certified industrial AKIP-6109 device with a margin error to $\pm 0,1$ %. In total it is taken 19431 measurement. Statistical data processing is carried out in the Statistica 10,0, Poly-Analyst appendix. Reliable distinctions of specific conductivity depending on prescription of their stay are revealed that allowed to construct four regression models for the description of dependence of prescription of formation of traces of blood for woolen and hlobchatobumazhny fabrics when using physiological solution and the distilled water. Poluchennyy results will allow to apply a technique in activity of a forensic medical examination.

Key words: forensic medical examination, prescription of a spot of blood, specific conductivity.

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(p<0.05)

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	100 ^{-1 -1}	120 ^{-1 -1}	1 000 ^{-1 -1}	10 000 ^{-1 -1}
16	2,5887±0,3123	1,7430±0,8420	2,0316±0,0319	1,6697±0,0105
27	0,5223±0,0018*	1,9594±0,9143	2,5339±0,8925*	2,6630±0,7478*
34	1,6075±0,0739*	1,5594±0,0555*	1,4507±0,0488*	1,4255±0,0529*
42	1,9554±1,2813*	1,7395±1,2084	1,8072±1,2689	1,5314±0,4591
56	3,4916±0,2114*	3,4133±0,1626*	3,2808±0,3758*	1,5129±0,1759
64	3,4020±0,2299*	3,3259±0,1916*	3,1861±0,3606*	1,4705±0,1696
74	1,8553±0,1803*	1,8688±0,1707	1,7078±0,1735*	0,9305±0,0868*
88	2,1589±0,2981*	2,1893±0,3052*	1,9746±0,2890	0,9254±0,1889*
96	2,2623±0,2663*	2,3007±0,2812*	2,0886±0,2495	1,0745±0,1511*
102	2,6824±0,3737	2,7005±0,3427*	2,3454±0,3143*	1,2132±0,1060*
	2,3341±0,7556	2,1957±0,7964	2,2436±0,7470	1,3786±0,5000

*

(p<0.05)



2

	100 -1 -1	120 -1 -1	1 000 -1 -1	10 000 -1 -1
16	0,4442±0,3429	0,3345±0,2271	0,3741±0,2542	0,4164±0,3250
27	0,2033±0,1635*	0,2139±0,1335*	0,2436±0,1367*	0,2622±0,1786*
34	0,1125±0,0504*	0,1084±0,0482*	0,0857±0,0418*	0,0801±0,0407*
42	0,2172±0,1655*	0,2106±0,1603*	0,1274±0,0854*	0,0589±0,0284*
56	0,3637±0,0846	0,3570±0,0802	0,2621±0,0809*	0,1331±0,0578*
64	0,3552±0,0825	0,3487±0,0784	0,2568±0,0798*	0,1304±0,0566*
74	0,1817±0,0338*	0,1813±0,0343*	0,1618±0,0307*	0,0887±0,0223*
88	0,2364±0,0546*	0,2342±0,0529*	0,1884±0,0349*	0,1009±0,0649*
96	0,3006±0,0854*	0,2943±0,0812*	0,2528±0,0803*	0,1421±0,0636*
102	0,3189±0,0531*	0,3152±0,0530*	0,2337±0,0558*	0,1370±0,0458*
	0,2897±0,1991	0,2671±0,1479	0,2326±0,1543	0,1780±0,1971

* (p<0.05)

3

	100 -1 -1	120 -1 -1	1 000 -1 -1	10 000 -1 -1
16	2,8250±0,6477	1,7301±0,8663	2,2544±0,6701	1,6591±0,0321
27	1,6198±0,3761*	1,7323±0,7456	2,2798±0,5949	1,9029±0,0733*
34	1,4994±0,0735*	1,4559±0,0590*	1,3649±0,0993*	1,3707±0,0797*
42	1,4670±1,0941*	1,5042±1,1187*	1,6905±1,1367*	1,3027±0,4909*
56	2,8168±0,6255	2,7848±0,5850*	2,6080±0,4447	1,3507±0,2122*
64	2,8020±0,6115	2,7698±0,5688*	2,5882±0,4378	1,3525±0,1680*
74	1,1046±0,2686*	1,1269±0,2598*	1,1112±0,1988*	0,7554±0,1325*
88	1,5661±0,3679*	1,5971±0,3666	1,5388±0,3216*	0,7662±0,1901*
96	1,3814±0,3246*	1,4296±0,3272*	1,4786±0,2687*	0,9333±0,1534*
102	2,0678±0,2311*	2,0907±0,2203*	1,9050±0,1796*	1,0953±0,0628*
	1,9007±0,8178	1,8266±0,7969	1,8729±0,7120	1,1600±0,3617

* (p<0.05)



	\bar{X}_{-100} -1 -1	\bar{X}_{-120} -1 -1	\bar{X}_{-1000} -1 -1	\bar{X}_{-10000} -1 -1
16	0,3642±0,2335	0,2174±0,1601	0,2673±0,1563	0,3101±0,1679
27	0,1332±0,0701*	0,1326±0,0958*	0,1357±0,0743*	0,1631±0,0924*
34	0,0658±0,0100*	0,0654±0,0135*	0,0589±0,0183*	0,0540±0,0183*
42	0,1883±0,1397*	0,1859±0,1396*	0,1199±0,0825*	0,0539±0,0237*
56	0,2707±0,0924	0,2675±0,0922	0,2013±0,0562*	0,1046±0,1281*
64	0,2767±0,0985	0,2740±0,0970	0,2042±0,0575*	0,0936±0,0257*
74	0,1450±0,0180*	0,1486±0,0243*	0,1477±0,0403*	0,1098±0,0773*
88	0,1756±0,0427*	0,1759±0,0435*	0,1493±0,0381*	0,0878±0,0940*
96	0,2203±0,0519*	0,2236±0,0572	0,2321±0,0645*	0,1550±0,0538*
102	0,3475±0,0435	0,3429±0,0572*	0,3001±0,0499*	0,1857±0,0331*
	0,2347±0,1544	0,2047±0,1220	0,1894±0,1095	0,1401±0,1264

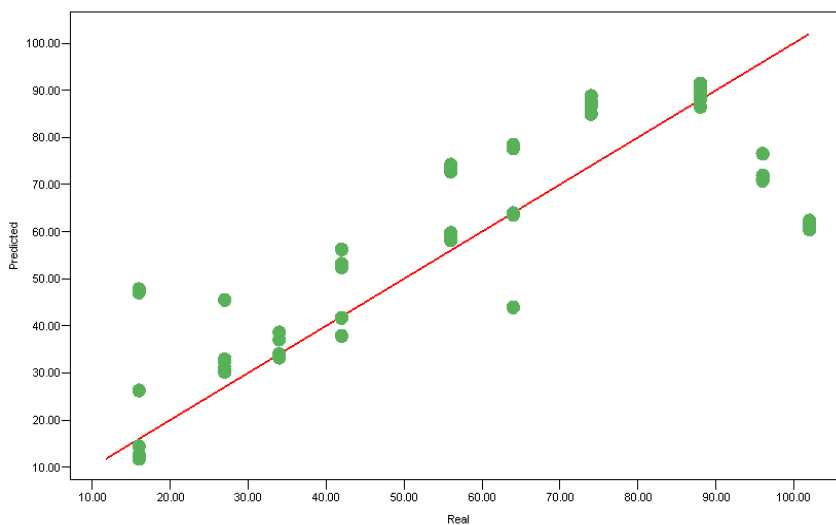
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(p<0.05)

(p<0.05) (. 1):

$$DFK = +125.955 - 3.83079 \times T - 1.45224e - 009 \times [\bar{X}_{-100}] - 1.99944e - 009 \times [\bar{X}_{-10000}] \quad (1.1).$$

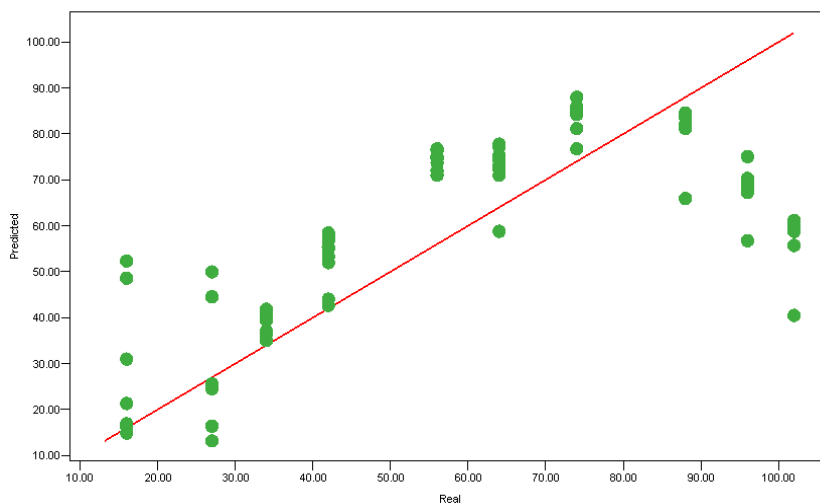
$$T = \frac{DFK - 125.955 + 1.99944e - 009 \times [\bar{X}_{-10000}]}{3.83079 - 1.45224e - 009 \times [\bar{X}_{-10000}]} \quad (1.2)$$



. 1.

(DFK)

(. 2):
$$DFK = +117.791 - 3.39151 \times T - 1.27220e-009 \times [\quad] - 100 - 1.82934e-009 \times [\quad] - 10000 \quad (1.2).$$



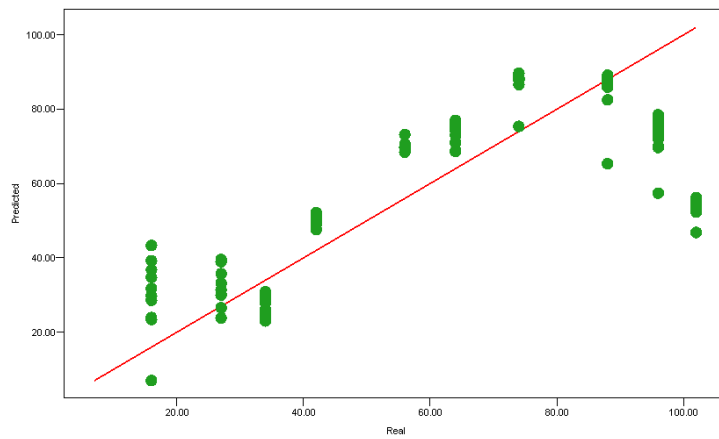
. 2.

(DFK)



(. 3):

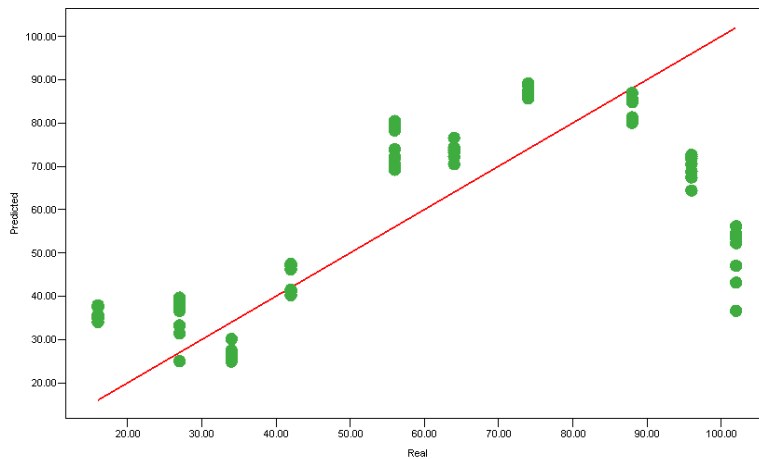
$$DFK = +133.197 - 4.39800 \times T - 28.7762 \times [_10000] \quad (1.3).$$



. 3.
(DFK)

(. 4):

$$DFK = +127.310 - 4.33894 \times T - 5.96508e - 010 \times [_100] \quad (1.4).$$



. 4.
(DFK)



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THE USE OF SPECIAL KNOWLEDGE WHILE COLLECTING INFORMATION IN INVESTIGATION OF CRIMES RELATED TO MAKING FORGED DOCUMENTS

When clearing and investigating crimes related to using forged documents information about the way they were made (imitated) as well as data about means, devices that were applied and, finally, qualities of an actor (actors) implicated in this crime become increasingly important.

The authors emphasize that under conditions of the modern level of development and availability of equipment including printing, computer and reprographic that can be used while making forged documents it is necessary to engage specialists possessing special knowledge in these spheres. The law stipulates a series of organizational forms of obtaining such information. First of all, it implies participation of a specialist in examination of documents before initiation of a criminal case. The main study of evidential documents is represented in the form of an experts examination. Its specific character is determined by the fact that the obtained results in the form of an experts report can be used as evidence in legal proceedings. At the stage of preliminary examination as well as during an experts examination of a questionable document one should take account of its specific character since it exerts a significant influence upon the choice of a certain type and a particular way of its illegal reproducing by a criminal. It is proved by the data obtained by the authors while studying the experts practice in various regions of the country. In its turn, each way of imitation is distin-



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**MORPHOLOGICAL CHARACTERISTICS OF THE TRACES CLOSE
TO SHOT WHEN SHOOTING TRAUMATIC CARTRIDGE 9 PA**

In article on the basis of experimental data presented morphological characteristics of the traces close to shot when shooting traumatic cartridge 9 PA. Experimental shooting was done with pistols IZH-79-9T "Makarych", "Horkhe-1" and revolver R1 "Naganych" traumatic ammunition 9 PA with a muzzle energy of 50 J, manufactured by CJSC "Tekhkrim" with distances from 0 cm (stop) up to 100 cm in the target of white calico small degree of wear. The results of the experiments allowed to establish the maximum range of deposits of soot, grains of gunpowder and particles of rubber. Is the complex of characteristics that need to be identified and considered in the study of these injuries, to distinguish traces of a close shot.

Prepared visual material, table with the main data will surely allow the examiner to quickly navigate to the morphological characteristics of the prints close shot is fired from a different firearm limited destruction traumatic ammunition 9 PA muzzle energy of 50 joules. Using the above data, according to the authors, will increase the efficiency of the forensic ballistic expert studies and will undoubtedly be useful when working with cadets and students of MIA of Russia.

Key words: traumatic cartridges, firearms limited destruction, traces of a close shot, it is judicial-ballistic examination.

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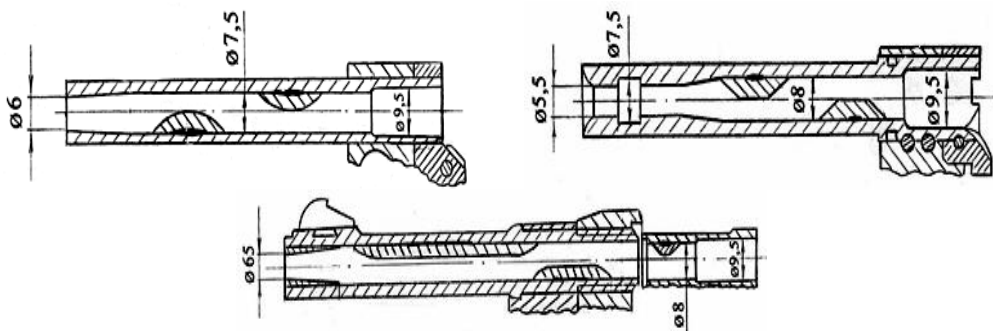


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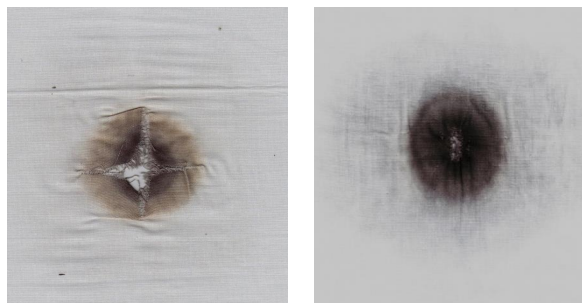


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It has been suggested taxonomy of psychopathological symptoms, reflected in the low-volume manuscript (texts small and brief notes). It is held on the elements of the structure of the written FDK (intellectual, speech, motor) according to their function in the mechanism of writing.

Key words: forensic diagnosis of psychopathology letters, small-volume manuscript, psychopathological symptoms letters, systematics of psychopathology symptoms letters, written FDK.

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regulatory analysis demonstrates that understanding of the FEFI scope shapes and clarifies as the science of forensics advances.

The content of the FEFI scope is flexible and changes as a result of differentiation and integration process of scientific knowledge, including economics ect. All the more so, variation does not depreciate relative consistency of the FEFI scope, which is sufficient to achieve practical objectives in judicial proceedings ensuring its proper application.

The FEFI scope as a generic (specific) concept determines the expert's competence as to a certain FEFI expert specialty, moreover it characterized the capacities of this genus (type) of expert investigation.

The features of the scope of certain FEFI are specified by the range of issues resolved by certain expert investigation taking into consideration the circumstances of a certain case in judicial proceedings. The issue of specifying common tasks of FEFI determines the necessity of scientific generalization of various FEFI issues. An attempt is made to specify common tasks of FEFI.

Key words: scope of forensic investigation, research and applied significance, scope of forensic economic and financial investigation, common tasks of forensic economic and financial investigation.

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FORENSICS AND TRADITIONAL FORENSIC EXAMINATIONS AS COMPONENTS OF PROFESSIONAL TRAINING OF FORENSIC EXPERTS: PROBLEMS OF TEACHING, WAYS OF SOLUTION

The article focuses on the current tentative programs on Forensics and traditional forensic examinations according to which forensic experts are trained in higher educational institutions of the Ministry of Interior of Russia. Forensics and traditional forensic examinations as academic disciplines play a significant role among disciplines of professional cycle. The amount of educational information they involve must be maximally balanced and,



eventually, determined by expert practice requirements. In the authors' opinion, training of forensic experts shall imply fundamental training in the sphere of forensic technical support for clearance and investigation of crimes. While mastering the course of Forensics forensic experts above all study thoroughly such section as Forensic Technique. To prove this statement the authors subject the current tentative program on Forensics to the analysis showing that Forensic Technique implies studying only one theme that is «General provisions of Forensic Technique». Moreover, its branches are not mentioned in any way. The authors consider such a position to be arguable. In their opinion, it is possible to effectively master all sections of Forensics and properly form professional competences of forensic experts only if they study Forensic Technique in its entirety. The authors fairly suppose that while training forensic experts when they don't get acquainted with Forensic Technique basics of working with different traces (material evidence) it is unacceptable to direct them toward studying all themes related to forensic tactics and forensic methods with obligatory mastering of peculiarities of specialists' participation in preparing and conducting investigative actions.

The authors show that traditional forensic examinations are studied within the framework of academic disciplines the name and content of which prove that they are a specific combination of these forensic examinations with corresponding branches of Forensic Technique. They reasonably point out that such combination is unjustified and suggest putting branches of Forensic Technique back to their «lawful» place to the course of Forensics. In order to minimize possible doubling while teaching branches of Forensic Technique and corresponding specific disciplines they also make certain proposals.

In particular, it is recommended that the content of these specific disciplines include only forensic expert aspects of studying material evidence as objects of traditional forensic examinations as well as those scientific provisions from branches of Forensic Technique being the theoretical basis for corresponding types of forensic examinations. All the other issues of forensic examination of material evidence as objects of the mentioned examinations falling outside the forensic expert work with these objects should be studied within the framework of Forensics.

Key words: tentative program, Forensics, traditional forensic examinations, professional competences, forensic technical support for clearance and investigation of crimes, forensic expert.



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**INTERUNIVERSITY ROUND TABLE
«MODERN PROBLEMS OF BALLISTIC EXAMINATION»
(Volgograd, 18 November, 2015)**

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