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 987. - 336 .
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 4. - 2 - 29.
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 (*Arctium lappa* L.)

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12.09.2011

: 615.322:615.451.16:581.43:581.45:582.998.2

(7,53+0,51%)
 (1,85+0,06%)
 (1,66+0,06%) -
 (1,29+0,08%) -
 (13,78+0,95%),
 (4,24+0,16%),
 (1,04+0,07%).
 (7,53+0,51%)
 (1,85+0,06%)
 (13,78+0,95%),
 (4,24+0,16%),
 (1,04+0,07%).
 (4,00+0,14%)

(7,53+0,51%)
 (1,85+0,06%)
 (1,66+0,06%) -
 (1,29+0,08%) -
 (13,78+0,95%),
 (4,24+0,16%),
 (1,04+0,07%).
 (4,00+0,14%)

T.V. Oproshanskaja, O.P. Khvorost
QUANTITATIVE DEFINITION OF PHENOLIC COMPOUNDS IN RAW MATERIALS AND SUBSTANCES OF BURDOCK

Key words: burdock, root, leaf, stem, inflorescence axis, inflorescence, fruit, bushy extracts, phenolic compounds
 The quantitative content of phenolic compounds was defined in roots of spring and autumn harvesting, root and stem leaves, stem, inflorescence axis, inflorescence, fruit of burdock and leaf and root bushy extracts. In raw materials the highest content of the sum of oxidative phenols (7,53+0,51%) is found in fruits, acids hydroxycoric (1,85+0,06%) and phlavanoids (1,66+0,06%) - in root leaves, tannins (1,29+0,08%) - in stem. In the bushy extract of a root the high content of the sum of oxidative phenols is watching (13,78+0,95%), in the bushy extract of leaf - acids hydroxycoric (4,24+0,16%), phlavanoids (4,00+0,14%) and tannins (1,04+0,07%).

615.322 : 615.451.16 : 543.544.25 : 547.596/.597

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 2,
 [12].
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1-2 (),

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[1].

2 [12].

12 22 ()

[1, 2].

3-

[13] [3-11, 13]. 70%

30%, 4-6 30

[9]. [3, 4, 8] 4-) (-). (2-), (

0,23 13 96% 1-

[6] 23 1 1%

2 «Agilent Technology 6S90» ().

[5] HP 1909 -4 -3 0,23 3%

10-15 230oC 4°C/ 30oC 230oC. 1 / 23o°C.

[7], 20ooC. 70 eV

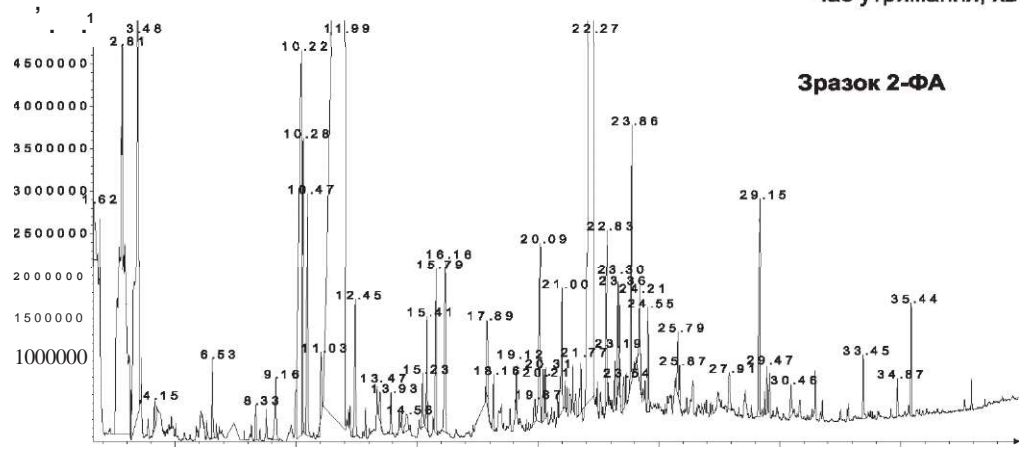
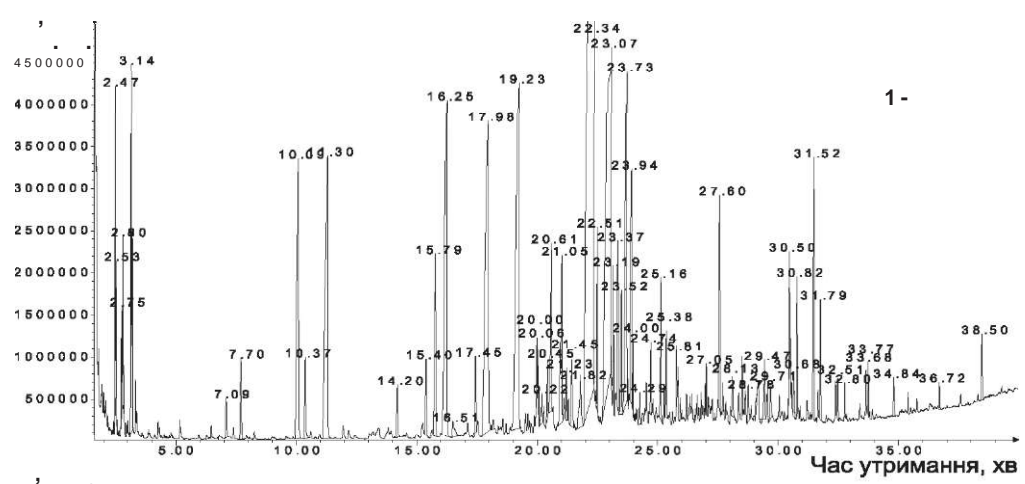
[10, 11] m/z 29 430 . . .

60% 300000 NIST 03-Wiley «Flavor 2» ().

2- 6 [11],

[11] 1 1% 0,002 1 p=0,S12' / .

58 44 1- 2- (. 1) 2- (. 1) 11,9 .
 10-25 (1-) 52
 82,5% (.).
 (2-) 39
 28,8%
 2,2,6,6- -4- (.), - 92,4 % , 72,9 % ,
 52,2 % .



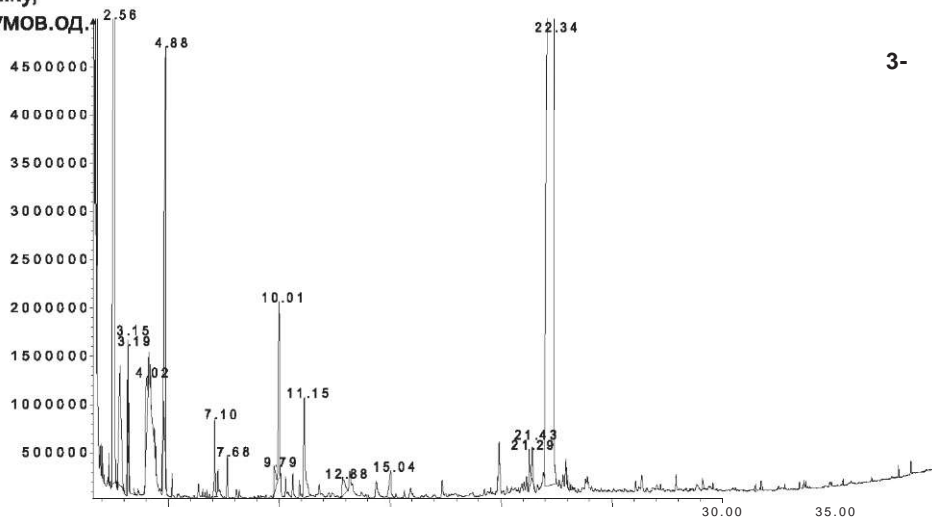
1.
 (. 2) - (. 2) -
 14 (11) . (26 (30) . 4-
 8,24% . 97,4 %
 3- 22 % % 30,4
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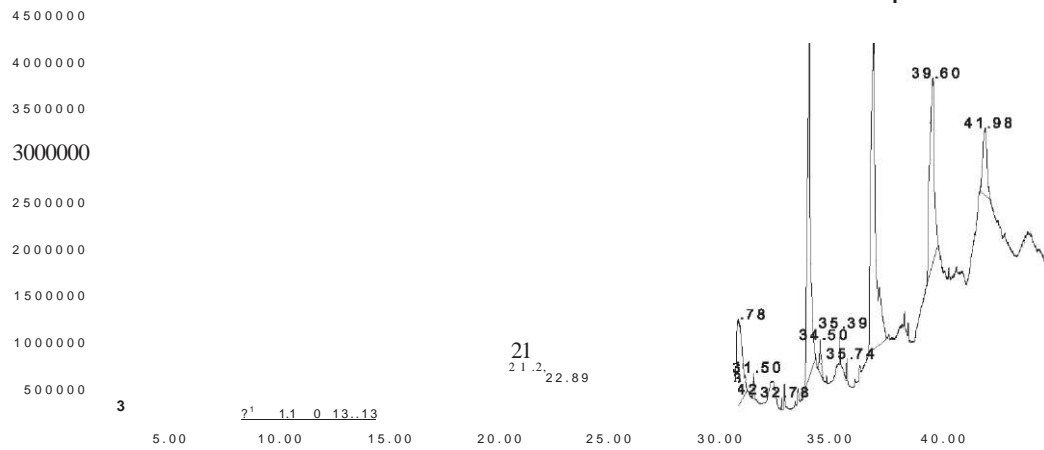
-134,22 410

			, %	, %
1- (-)				
2,47	4- -2		1,183	1,623
2,74			0,418	0,573
2,80			0,601	0,824
3,14	4- -3- -2-		2,416	3,314
10,09	2,3- - -2- --		3,346	4,590
11,30	2,2,6,6- -4-		4,801	6,586
			60,135	82,489
			72,900	100,000
2- (-)				
3,48	4- -2		9,502	10,28
4,15	4- -3- -2-		0,222	0,24
10,21	2,3- - -2- --		7,429	8,04
11,03	2,6- -2,5- -4-		0,375	0,41
11,98	2,2,6,6- -4-		48,261	52,22
			26,622	28,808
			92,411	100,000
3- (-)				
2,56	4- -2		13,411	60,91
3,15	4- -3- -2-		0,201	0,91
4,01	4- -4- - -2		0,641	2,91
4,87			3,334	15,14
10,01	2,3- -2- --		1,113	5,05
11,14	2,2,6,6- -4-		0,999	4,54
21,29	2-		0,245	1,11
21,43	3-		0,261	1,18
			1,815	8,244
			22,019	100,00
4- (-)				
3,2	4- -3- -2-		0,074	0,245
8,3			0,057	0,189
9,95	2,3- - -2- -1-		0,059	0,195
10,4			0,012	0,041
10,74	-		0,016	0,054
13,12	-(4-)-		0,035	0,114
21,06-23,09	5- 6		0,522	1,715
26,95-41,97	-, -, - -		29,653	97,449
			30,429	100,000

Висота піку, умов. од.



24.28



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2.

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58, 44, 14 26

72,9 92,4 %

22,0 30,4 %

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5.

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50 %

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.- 2010.- .12. 3.- .92-94.

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) .- . 22.09.2003; . 10.06.2006, . 16. (-
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D.V. Demyanenko, A.N. Komissarenko, O.N. Koshevoy
**STUDY OF COMPOSITION OF VOLATILE COMPOUNDS
 OF LIME FLOWERS OBTAINED BY FREON-AMMONIAC
 MIXTURE**

Key words: extraction, lime flowers, condensed gases, freon, ammonia, gas-liquid chromatography

The chemical composition of the freon-ammoniac extract from lime flowers has been studied by method of gas-liquid chromatography. In the hexane, chloroform, ethylacetate and aqueous-alcoholic fractions of the given extract 58, 44, 14 and 26 compounds respectively were found. Ketone derivatives dominated in the hexane, chloroform and ethylacetate fractions, isomers of penta-, hexa-, hepta- and octa- ethylene glycol did in the aqueous-alcoholic one. The chloroform fraction contained about 50 % of triacetoneamine which exhibited neurotropic activity.

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TPA

GERANIUM L

Geranium L.

[7,8,9,10].

[1,2,3].