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## ANALYTICAL REPORT

## **ADB-CHMICA**

(C22H31N3O2)

## N-(1-Amino-3,3-dimethyl-1-oxobutan-2-yl)-1-(cyclohexylmethyl)-1H-indole-3-carboxamide,

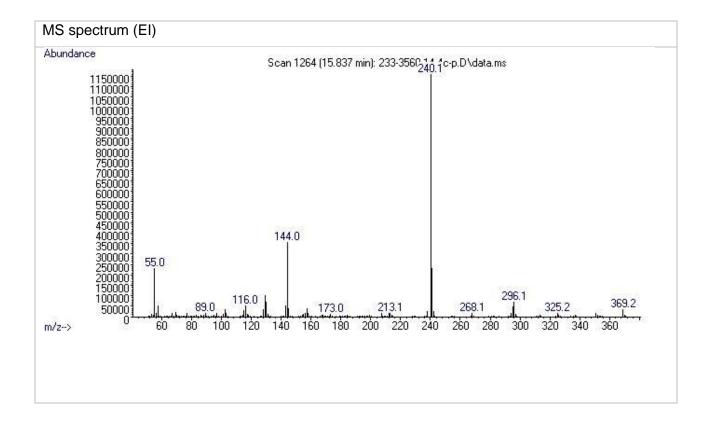
Sample ID:	233-3560/2014
Sample description:	powder
Report date:	
Sample type:	S-seized

Substance identified- structure <sup>i</sup>	HN NH2
Systematic name	N-(1-Amino-3,3-dimethyl-1-oxobutan-2-yl)-1-(cyclohexylmethyl)-1H-indole-3-
	carboxamide
Other names	ADB-CHMICA
	,
Formula (per base form)	C22H31N3O2
M <sub>w</sub> (g/mol)	369,5
Salt form	base
Other compounds detected	
Smiles	C1(CCCCC1)CN1C=C(C2=CC=C12)C(=O)NC(C(=O)N)C(C)(C)C
Compound Class	Cannabinoids

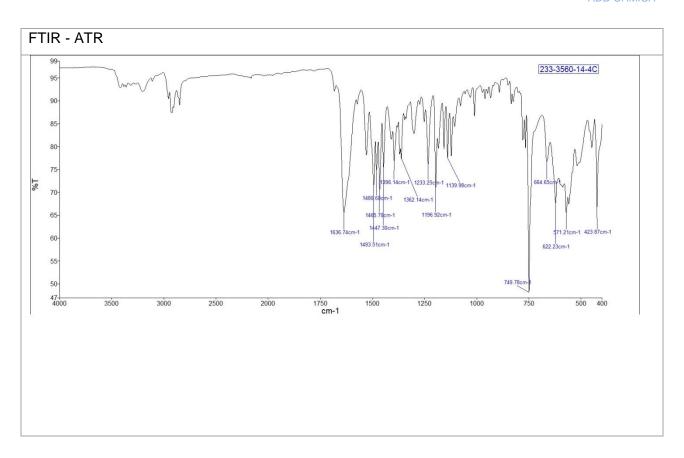
This report has been produced with the financial support of the Prevention of and fight against crime Programme of the European Union (grant agreement number JUST/2013/ISEC/DRUGS/AG/6413). The contents of this report are the sole responsibility of the National Forensic Laboratory and can in no way be taken to reflect the views of the European Commission.

## Supporting information

Analytical technique:	applied	remarks
GC-MS	+	
FTIR-ATR	+	
FTIR (condensed phase)		
HPLC-TOF	+	
NMR-confirmed	+	
validation		
other		



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<sup>&</sup>lt;sup>i</sup> Created by OPSIN free tool: <a href="http://opsin.ch.cam.ac.uk/">http://opsin.ch.cam.ac.uk/</a> DOI: 10.1021/ci100384d

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Dr. Janez Košmrlj Professor of Organic Chemistry

September 17, 2014

Dr. Sonja Klemenc Head of Chemistry Department Vodovodna 95 1000 Ljubljana Slovenija

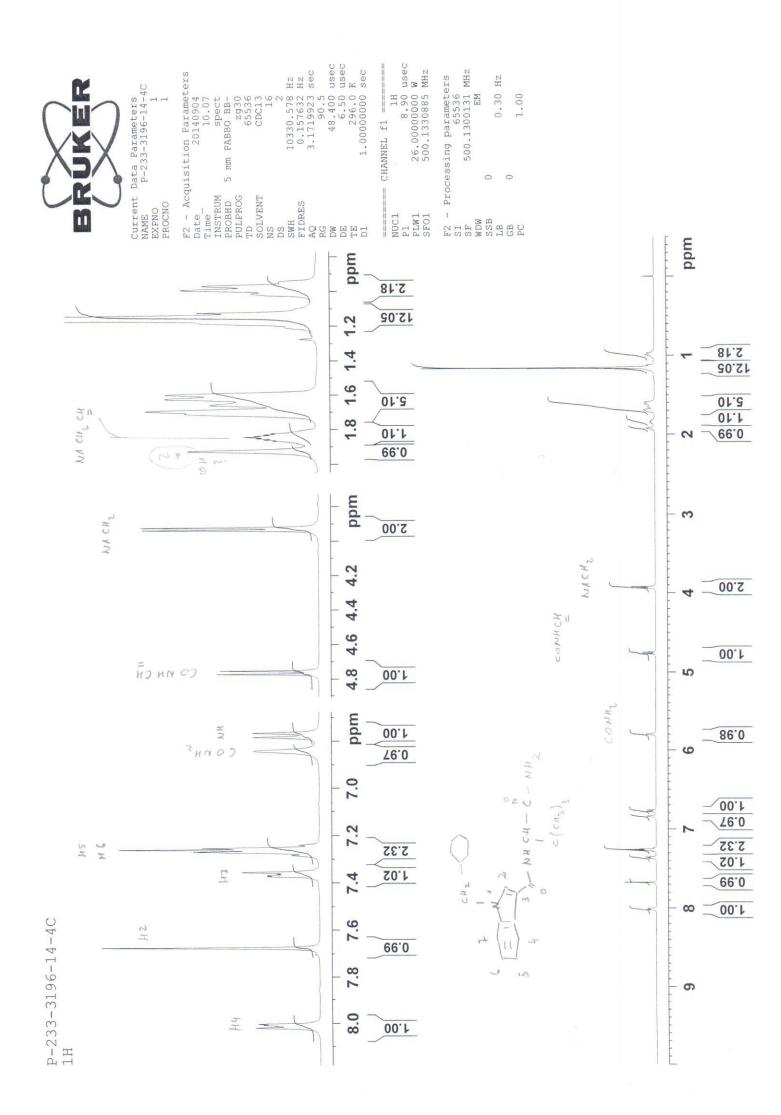
Dear Dr. Sonja Klemenc,

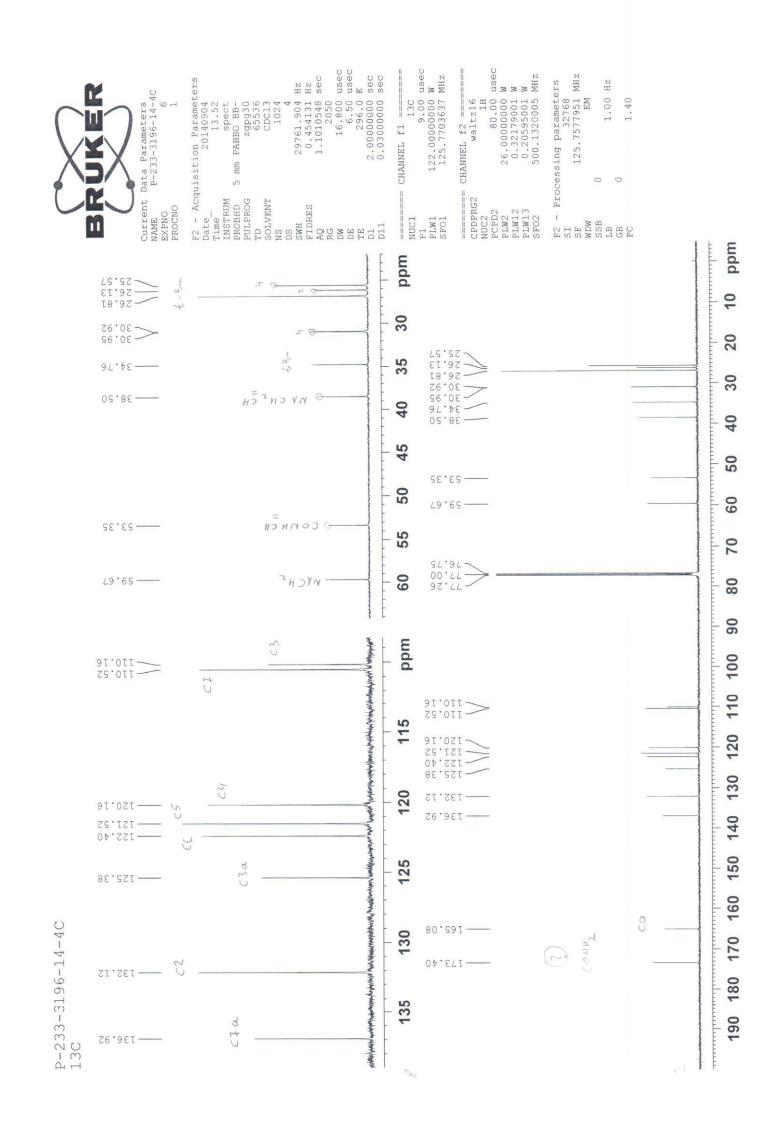
Please find enclosed the results of the structure elucidation for the sample:

Sample ID:	233-3560-14-4C
Received date:	September 1, 2014
Our notebook code:	P-233-3196-14-4C
NMR sample preparation:	15 mg dissolved in 0.7 mL CDCl <sub>3</sub>
NMR experiments:	$^{1}\mathrm{H},~^{13}\mathrm{C},~^{19}\mathrm{F},~^{1}\mathrm{H}-^{1}\mathrm{H}~gs\text{-}COSY},~^{1}\mathrm{H}-^{13}\mathrm{C}~gs\text{-}HSQC},~^{1}\mathrm{H}-^{13}\mathrm{C}~gs\text{-}HMBC},$ $^{1}\mathrm{H}-^{15}\mathrm{N}~gs\text{-}HMBC}$
Proposed structure with atom numbering scheme, formula, exact mass, molecular weight:	Chemical Formula: C <sub>22</sub> H <sub>31</sub> N <sub>3</sub> O <sub>2</sub> Exact Mass: 369.2416 Molecular Weight: 369.5004
Chemical name:	$\it N$ -(1-Amino-3,3-dimethyl-1-oxobutan-2-yl)-1-(cyclohexylmethyl)-1 $\it H$ -indole-3-carboxamide
Comments:	Structure elucidation based on 1D and 2D NMR spectra and HRMS data
Supporting information:	Copies of 1D and 2D NMR spectra, EI-MS spectrum (pp 2-11)

Sincerely,

Janez Košmrlj







-8	mdd
	-200
_	-180
-	-160
	-140
	-120
_	-100
-	-80
_	09-
	-40
	-20
	0