

Vodovodna 95 1000 Ljubljana SLOVENIJA

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ANALYTICAL REPORT

CUMYL-5FPICA

(C23H27FN2O)

1-(5-fluoropentyl)-N-(2-phenylpropane-2-yl)-1H-indole-3-carboxamide,

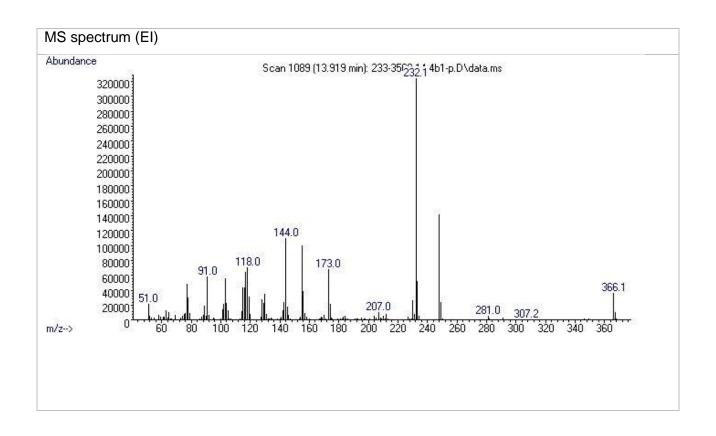
Sample ID:	233-3560/2014	
Sample description:	powder	
Report date:		
Sample type:	S-seized	

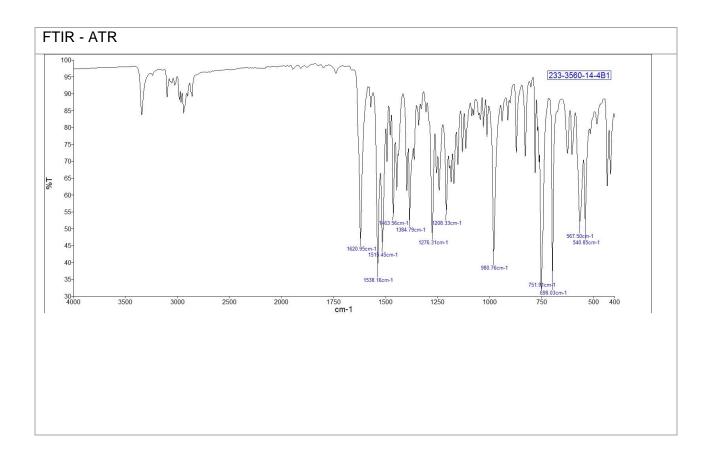
Substance identified- structure ⁱ	F HN O
Systematic name	1-(5-fluoropentyl)-N-(2-phenylpropane-2-yl)-1H-indole-3-carboxamide
Other names	CUMYL-5FPICA ,
Formula (per base form)	C23H27FN2O
M _w (g/mol)	366,47
Salt form	base
Other compounds detected	
Smiles	FCCCCCN1C=C(C2=CC=C12)C(=O)NC(C)(C)C1=CC=CC=C1
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		





ⁱ Created by OPSIN free tool: http://opsin.ch.cam.ac.uk/ 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

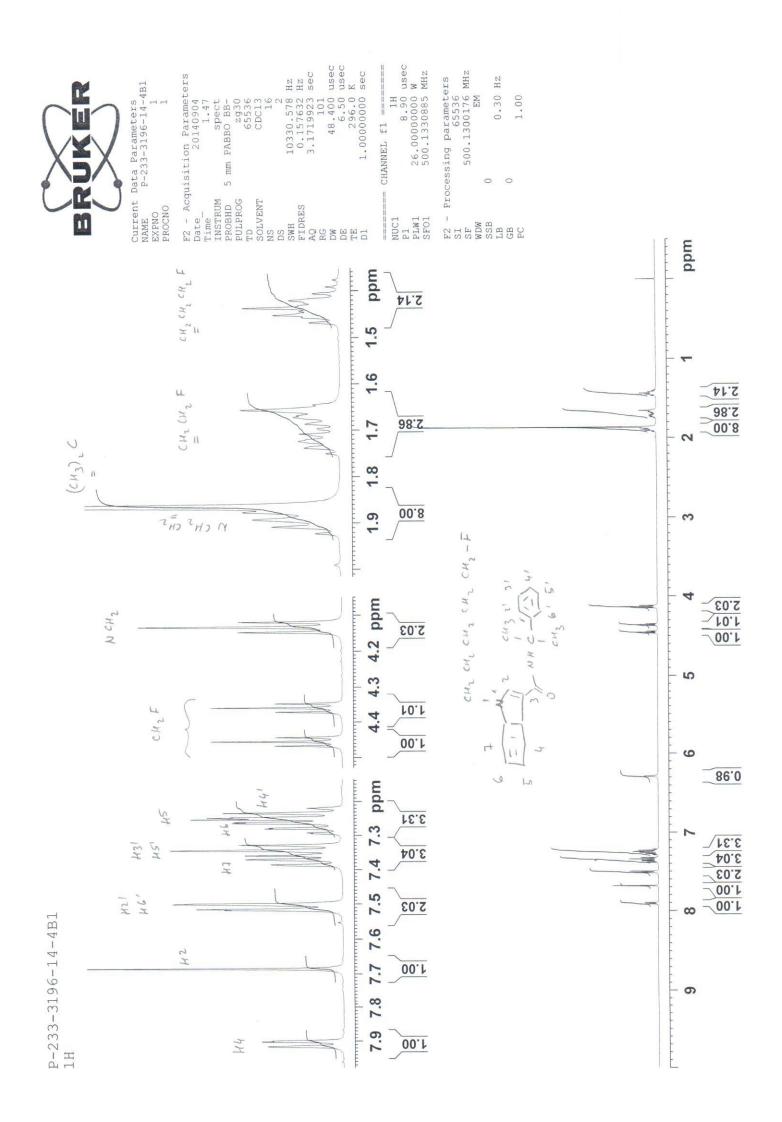
Dear Dr. Sonja Klemenc,

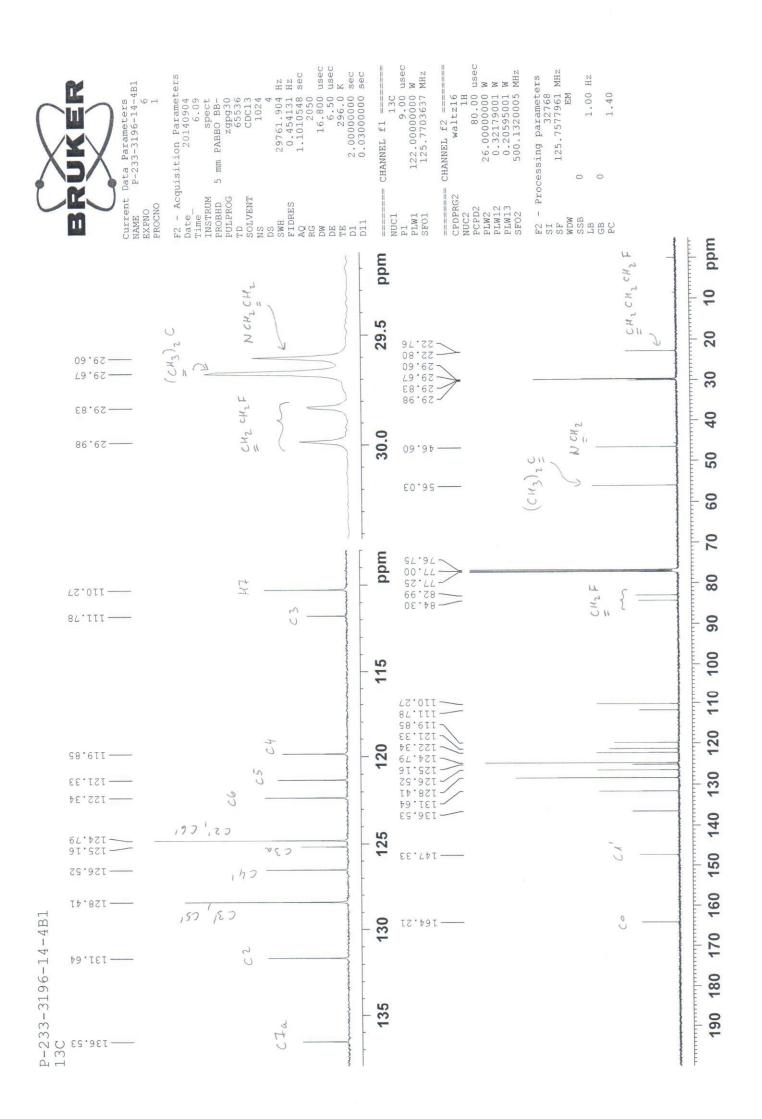
Please find enclosed the results of the structure elucidation for the sample:

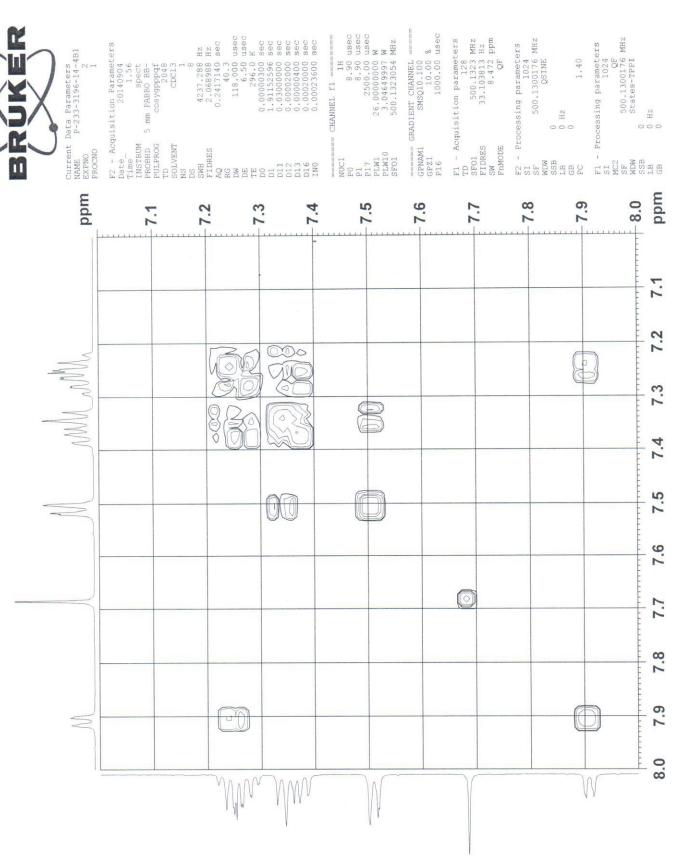
Sample ID:	233-3560-14-4B1	
Received date:	September 1, 2014	
Our notebook code:	P-233-3196-14-4B1	
NMR sample preparation:	15 mg dissolved in 0.7 mL CDCl ₃	
NMR experiments:	1 H, 13 C, 19 F, 1 H $^{-1}$ H gs -COSY, 1 H $^{-13}$ C gs -HSQC, 1 H $^{-13}$ C gs -HMBC, 1 H $^{-15}$ N gs -HMBC	
Proposed structure with atom numbering scheme, formula, exact mass, molecular weight:	Chemical Formula: C ₂₃ H ₂₇ FN ₂ O Exact Mass: 366.2107 Molecular Weight: 366.4717	
Chemical name:	1-(5-Fluoropentyl)- <i>N</i> -(2-phenylpropan-2-yl)-1 <i>H</i> -indole-3-carboxamide	
Comments:	- Structure elucidation based on 1D and 2D NMR spectra.	
	- The result is consistent with the structure proposed by MS.	
Supporting information:	Copies of 1D and 2D NMR spectra, EI-MS spectrum (pp 2-11)	

Sincerely,

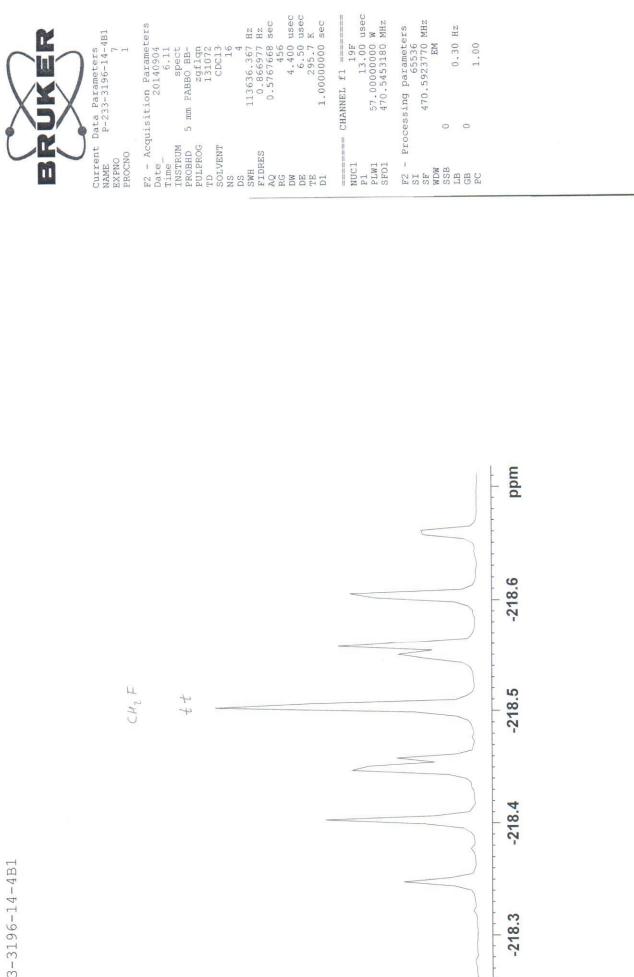
Janez Košmrlj







P-233-3196-14-4B1 15N HMBC



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