I-SEE
European Project
on New Psychoactive Substance

Co-funded by the Prevention of and Fight against Crime Programme of the European Union
JUST/2013/ISEC/DRUGS/AG/6426

NACIONALNI FORENZIČNI LABORATORIJ
NATIONAL FORENSIC LABORATORY

Vodovodna 95
1000 Ljubljana
SLOVENIJA

T: +386 (0)1 428 44 93
E: nfl@policija.si
www.policija.si

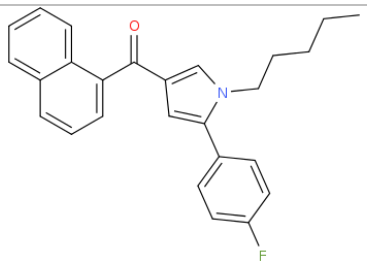
ANALYTICAL REPORT

JWH-308 (C26H24FNO)

2-(4-fluorophenyl)-4-(naphthalene-1-carbonyl)-1-pentyl-1H-pyrrole

Remark – other active cpd. detected: none

Sample ID:	1654-16
Sample description:	powder - yellow
Sample type:	RM-reference material
Comments[1]:	Chiron AS Lot#16558; I-SEE project RM and report
Date of entry:	9/8/2016

Substance identified-structure[2] (base form)	
Systematic name:	2-(4-fluorophenyl)-4-(naphthalene-1-carbonyl)-1-pentyl-1H-pyrrole
Other names:	1-pentyl-3-(1-naphthoyl)-5-(4-fluorophenyl)-pyrrole; (5-(4-fluorophenyl)-1-pentyl-1H-pyrrol-3-yl)(naphthalen-1-yl)methanone
Formula (per base form)	C26H24FNO
M_w (g/mol)	385.48
Salt form:	base
StdInChIKey	PJNACIYIFHTDCK-UHFFFAOYSA-N
Compound Class	Cannabinoids
Other active cpd. detected	none

[1] 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/6426). 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.

[2] Created by OPSIN free tool: http://opsin.ch.cam.ac.uk/ **DOI:** 10.1021/ci100384d

Add.info (purity..)	99 %

Report updates

date	comments (explanation)

Supporting information

Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	NFL GC-RT (min): 15.66 BP(1): 155; BP(2): 127,BP(3) :385,
FTIR-ATR		
GC-IR (condensed phase)		

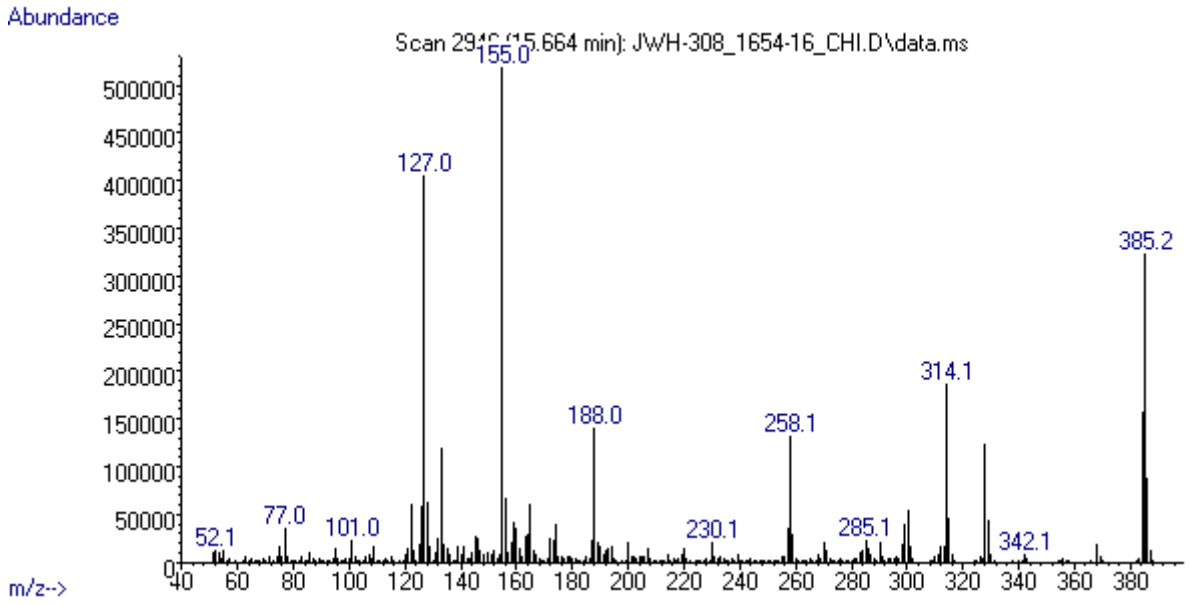
1. GC-MS (Agilent): GC-method is RT locked to tetracosane (9.258 min). Injection volume 1 ml and split mode (1:50). Injector temperature: 280 0C. Chromatographic separation: on column HP1-MS (100% dimethylpolysiloxane), length 30 m, internal diameter 0.25 mm, film thickens 0.25 µm. Carrier gas He: flow-rate 1.2 ml/min. GC oven program: 170 ^{0}C for 1 min, followed by heating up to 190 ^{0}C at rate 8 ^{0}C/min, then heating up to 293 0C at a rate of 18 ^{0}C/min, hold for 6.1 min, then heating at 50 ^{0}C/min up to 325 ^{0}C and finally 6.1 min isothermal. MSD source EI = 70 eV. GC-MS transfer line T= 235^{0}C, source and quadropole temperatures 280^{0}C and 180^{0}C, respectively. Scan range m/z scan range: from 50 (30 until 6 min.) to 550 (300 until 6 min) amu.

2. FTIR-ATR (Perkin Elmer): scan range 4000-400 cm^{-1}; resolution 4cm^{-1}

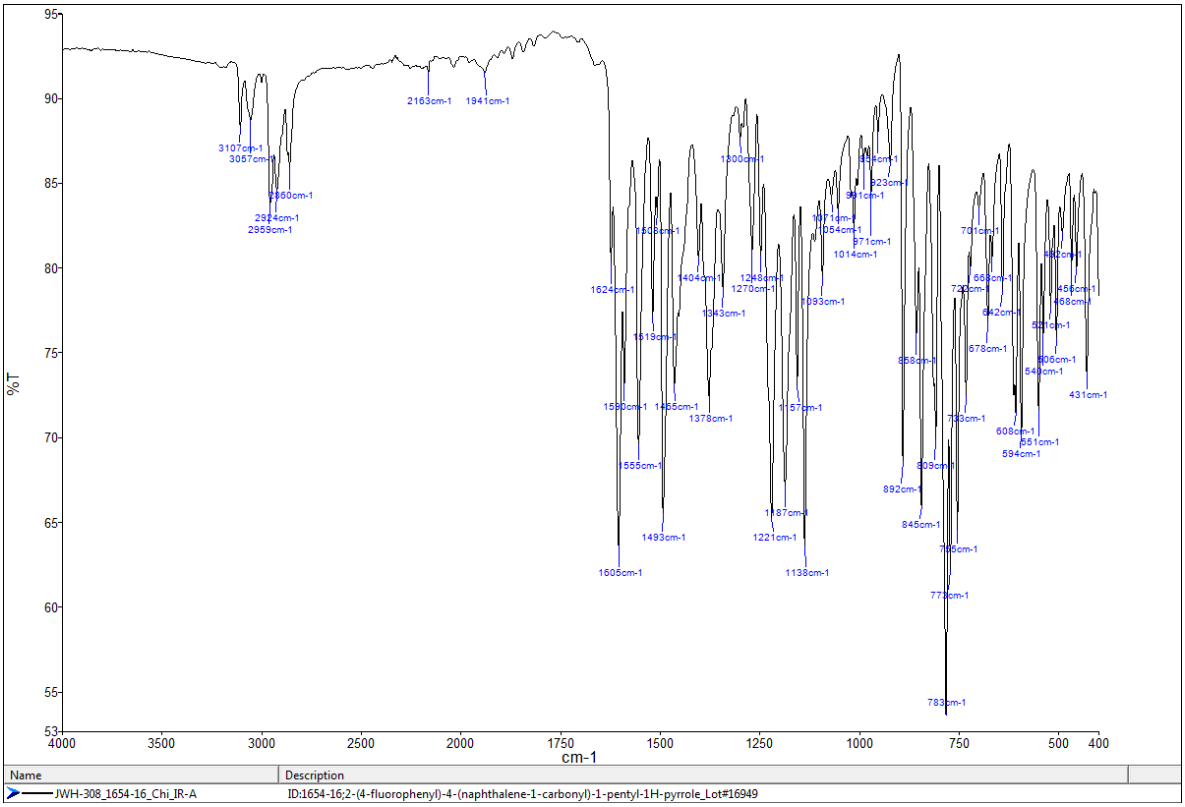
3. GC- (MS)-IR condensed phase (GC-MS (Agilent) & IR (Spectra analyses-Danny)
GC-method: Injection volume 1 ml and split mode (1:5). Injector temperature 280 ^{0}C. Chromatographic separation as above **(1).**
Split MS : IR = 1 : 9.
MSD source EI = 70 eV. GC-MS transfer line T= 235^{0}C, source and quadropole temperatures 280^{0}C and 180^{0}C, respectively. Scan range m/z scan range: from 50 (30 until 6 min.) to 550 (300) amu.
IR (condesed (solid) phase): IR scan range 4000 to 650, resolution 4 cm^{-1} .

FIGURES OF SPECTRA

MS (EI)



FTIR-ATR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3057cm-1
2924cm-1
2958cm-1
2163cm-1
1941cm-1
1624cm-1
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1590cm-1
1555cm-1
1493cm-1
1455cm-1
1404cm-1
1378cm-1
1343cm-1
1300cm-1
1270cm-1
1248cm-1
1221cm-1
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1157cm-1
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783cm-1
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Name
Description
JWH-308_1654-16_Chi_IR-A
ID:1654-16;2-(4-fluorophenyl)-4-(naphthalene-1-carbonyl)-1-pentyl-1H-pyrrole_Lot#16949