

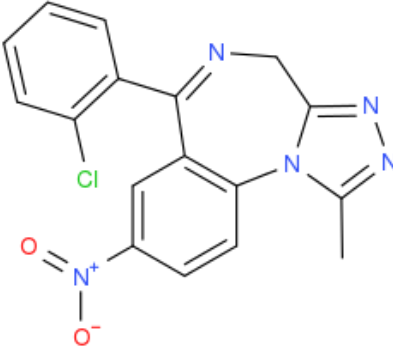
ANALYTICAL REPORT

clonazolam, (C17H12ClN5O2)

6-(2-chlorophenyl)-1-methyl-8-nitro-4H-[1,2,4]triazolo[4,3-a][1,4]benzodiazepine

Remark – other NPS detected: **none**

Sample ID:	233-1980/2015
Sample description:	powder - yellowish
Sample type:	C-collected
Date of entry:	5/13/2015

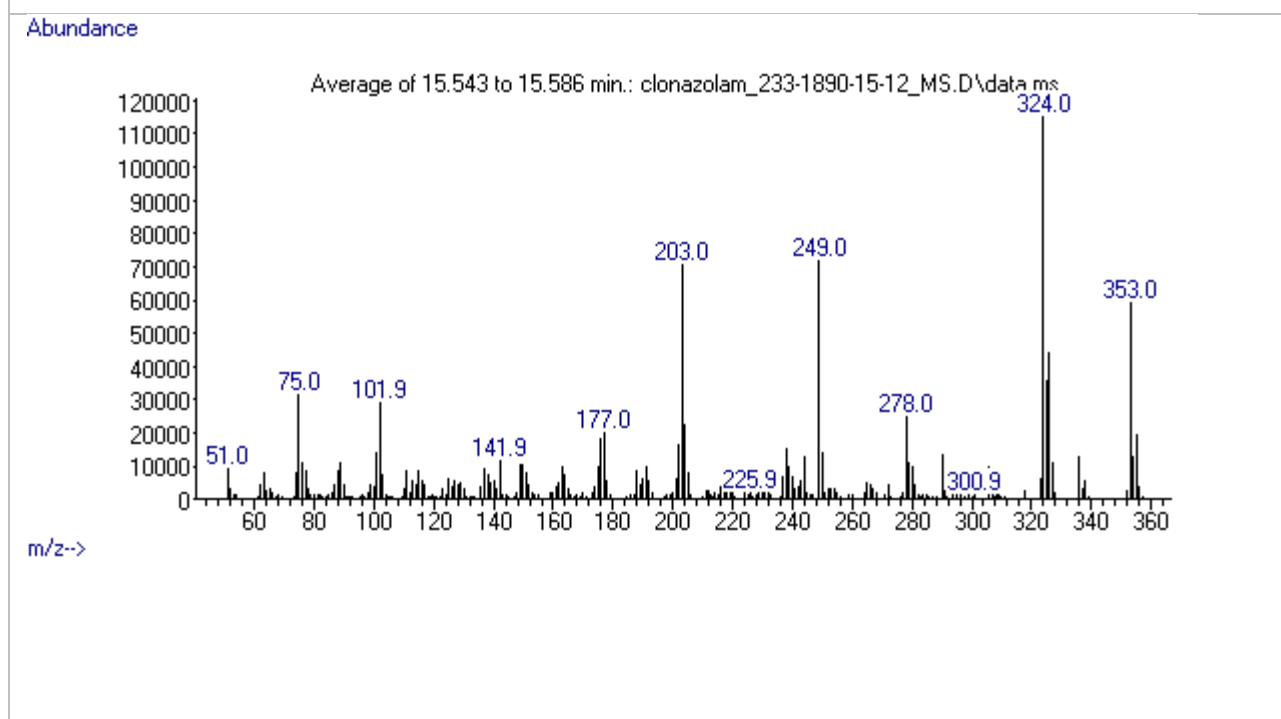
Substance identified- structure ⁱ (base form)	
Systematic name	6-(2-chlorophenyl)-1-methyl-8-nitro-4H-[1,2,4]triazolo[4,3-a][1,4]benzodiazepine
Other names	
Formula (per base form)	C17H12ClN5O2
M _w (g/mol)	353,76
Salt form	base
Smiles	<chem>C1C=C(C=CC=C1)C1=NCC=2N(C3=C1C=C(C=C3)[N+](=O)[O-])C(=NN2)C</chem>
Compound Class	Benzodiazepines
Other NPS detected	none
Add.info (purity..)	pure?

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.

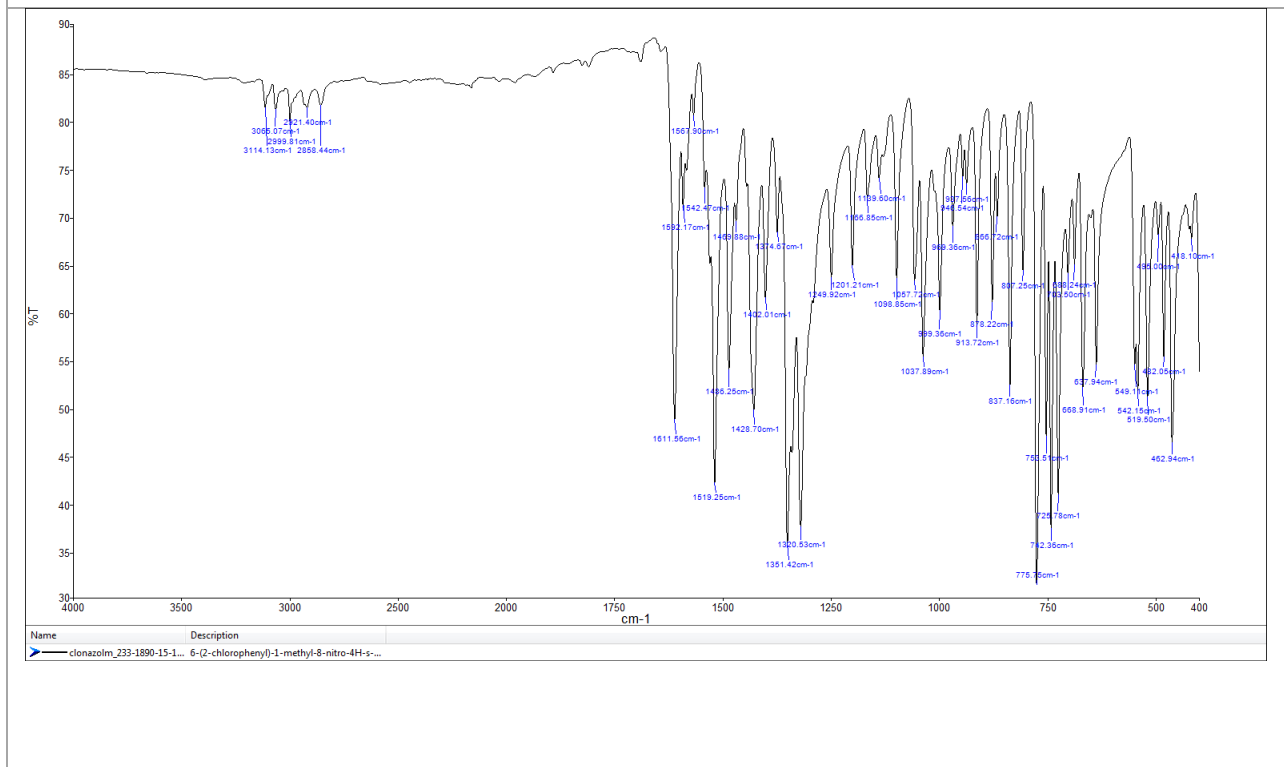
Supporting information

Analytical technique:	applied	remarks
GC-MS (EI ionization)	+	NFL GC-RT (min): 15,58 BP(1): 324; BP(2): 249,BP(3) :203,
FTIR-ATR	+	base
FTIR (condensed phase)	/	
HPLC-TOF	+	Exact mass: 353,068, measured/ Δ ppm: -2,71; formula: C ₁₇ H ₁₂ ClN ₅ O ₂
NMR-confirmed	+	
validation		
other		

MS spectrum (EI)



FTIR - ATR



Created by OPSIN free tool: <http://opsin.ch.cam.ac.uk/> DOI: 10.1021/ci100384d

Target Compound Screening Report

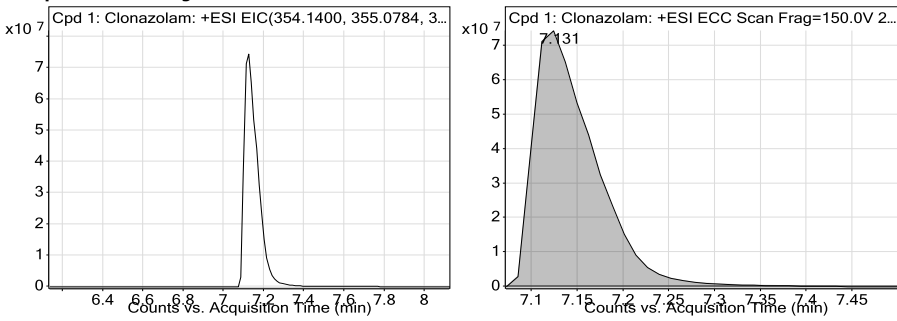
Data File	233-1890-15-12_TOF.d	Sample Name	vzorec 12
Sample Type	Sample	Position	P1-F9
Instrument Name	SG13170002	User Name	
Acq Method	droge general-13-5-2015-XDB-C18-ESI-poz.m	Acquired Time	5/15/2015 7:46:09 AM
IRM Calibration Status	Success	DA Method	Droge_Default.m
Comment	ekstrakcija v MeOH		

Compound Table

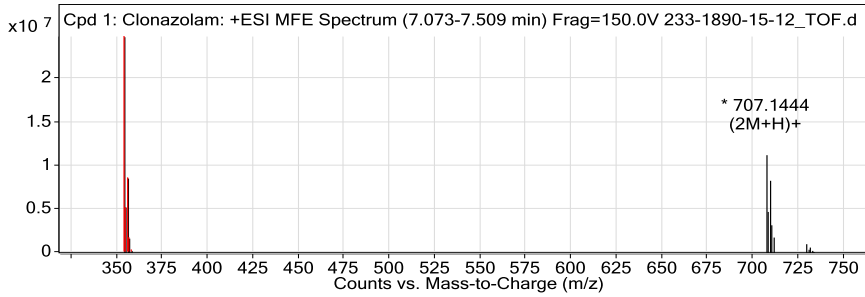
Label	Tgt Name	MFG Formula	Tgt Formula	Obs. RT	Obs. Mass
Cpd 1: Clonazolam	Clonazolam	C17 H12 Cl N5 O2	C17 H12 Cl N5 O2	7.131	353.0689

Name	Obs. m/z	Obs. RT	Obs. Mass	DB RT	DB Formula	DB Mass	DB Mass Error	Tgt Formula	Find Cpd Alaorith Find by Molecula r Feature
Clonazolam	354.0762	7.131	353.0689	7.131	C17 H12 Cl N5 O2	353.068	-2.71	C17 H12 Cl N5 O2	

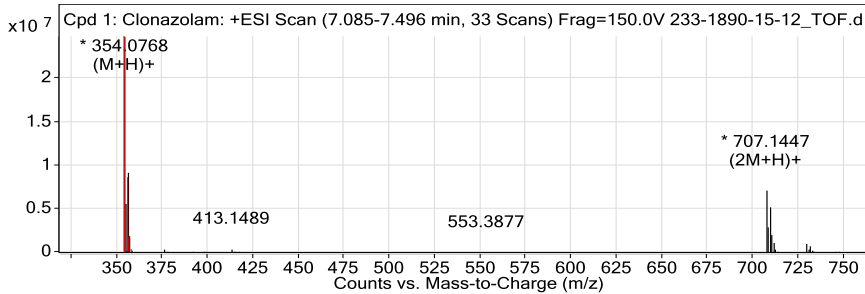
Compound Chromatograms



MFE MS Zoomed Spectrum



MS Zoomed Spectrum



MS Spectrum Peak List

Obs. m/z	Charge	Abund	Formula	Ion/Isotope
354.0762	1	24781402	C17 H12 Cl N5 O2	(M+H)+
355.0791	1	5223887.5	C17 H12 Cl N5 O2	(M+H)+
356.0737	1	8524133.16	C17 H12 Cl N5 O2	(M+H)+
357.0763	1	1660739.18	C17 H12 Cl N5 O2	(M+H)+
707.1444	1	11299573		(2M+H)+
708.147	1	4709590.16		(2M+H)+
709.1424	1	8345284.02		(2M+H)+
710.1446	1	3157398.42		(2M+H)+
711.1417	1	1814606.43		(2M+H)+
729.1252	1	983338.19		(2M+Na)+

--- End Of Report ---