

THE ROLE OF THE NATIONAL FORENSIC LABORATORY IN THE SLOVENIAN EWS AND WIDER – RESPONSE AND I-SEE PROJECTS

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1. INTRODUCTION



The National Forensic Laboratory (NFL) is an independent organisational unit of the General Police Directorate. The NFL guarantees reliability of its examinations by means of the quality assurance system along the ISO/IEC 17025 standard for testing and calibration laboratories. The NFL (Chemistry department) performs qualitative (identification) and a limited scope of quantitative analyses of practically all drug samples - including precursors and new psychoactive substances (NPS) seized by the police, in prisons, at customs as well as samples collected by NGOs for anonymous testing. For certain seized drugs NFL also performs regular annual monitoring. In general the Chemistry department performs examinations of different material traces (drugs, arsons, explosives, paints, security dyes etc.).



2. NFL in SI EWS

In the framework of the Slovenian "Early warning system on new psychoactive substances" :

- **identify** NPS, related compounds and classical drugs
- keeps **internal database of all seized NPSs** samples delivered for analysis
- **informs** domestic stakeholders and NGOs and public when needed
- performs regular **annual monitoring** on drugs purities for the **Report on the Drug Situation of the Republic of Slovenia**,
- analytical results provided by NFL always represent a **significant part of the reports delivered by the Republic of Slovenia to international institutions (UNODC and EMCDDA)** and to **EUROPOL** via the national **ENU** contact point , where relevant.
- **report and share the knowledge and information** within **EWS** , **ENFSI** and via **POLICE** structures
- **develops** new methods of chemical characterizations to enhance the capacities of NFL and SI EWS



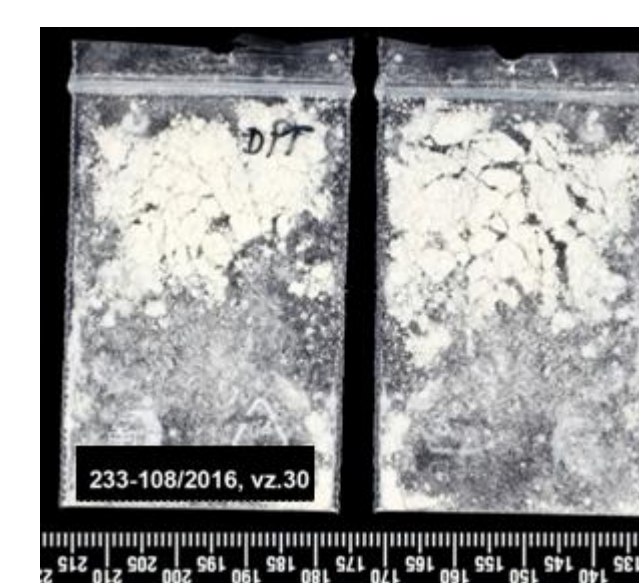
3. PROJECTS "RESPONSE" AND "I-SEE"

To enhance "identification" capacities and to support SI EWS system better NFL currently coordinates the **RESPONSE** project [1], which was designed such that identification of *new (previously unknown)* NPSs (seized, collected and test purchased samples) is enabled. NFL is also a partner in **I-SEE** project [2], where it provides chemical characterizations of new psychoactive substances "anonymously collected" by NGOs (non-governmental organizations) by its *routine accredited methods*.

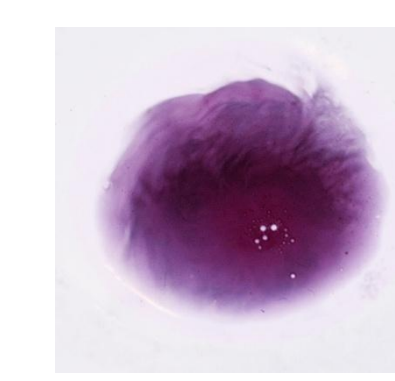
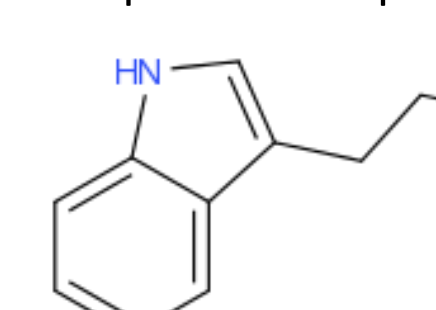


- Sample collected at NGO point in LJ:
- Information from anonymous user:
- Sample purchased from web as **DPT**

Delivered to NFL for chemical characterizations by the POLICE-NGO correspondent



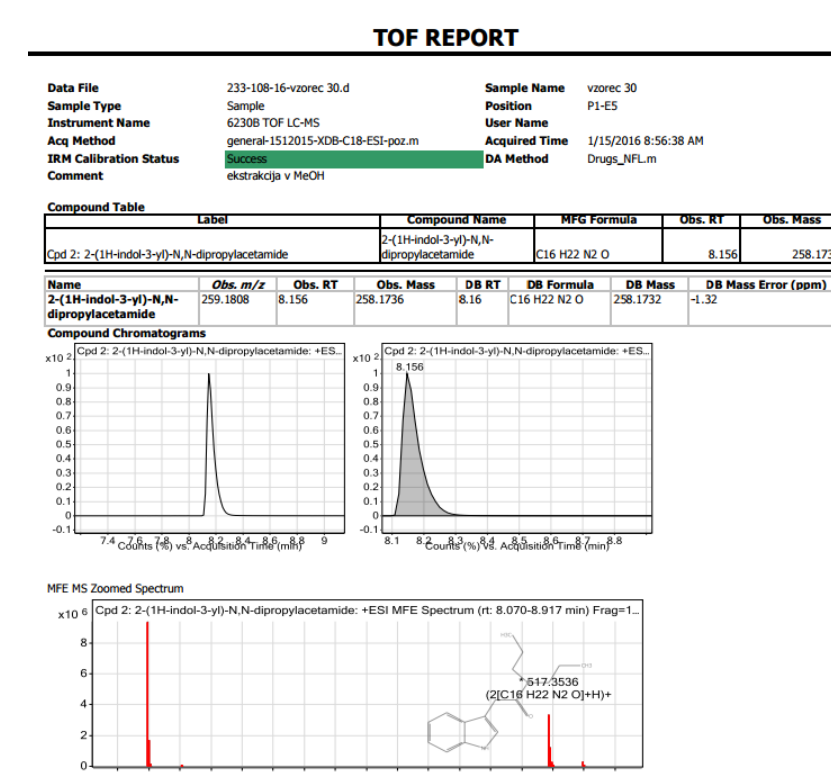
Suspected compound: yes or no?



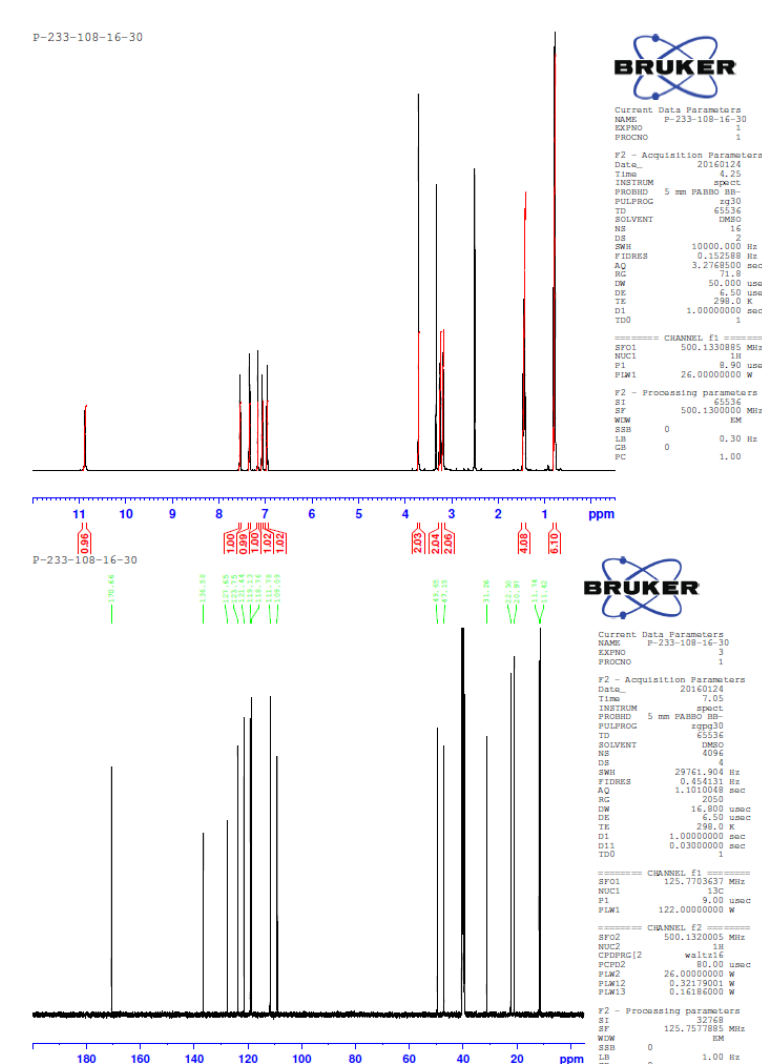
Ehrlich reagent. Tryptamines positive

[(2-(1H-indol-3-yl)ethyl)di]propylamine

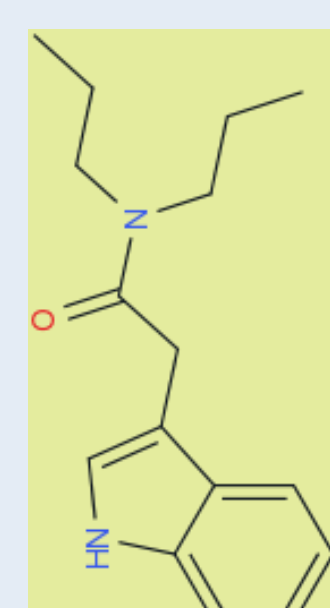
4. RESULT: JOINED REPORT of two projects (RESPONSE + I-SEE)



TOF: Proposed formula C₁₆H₂₂N₂O



NMR structure elucidation



Name: 2-(1H-indol-3-yl)-N,N-dipropylacetamide
FORMULA: C₁₆H₂₂N₂O
Mw: 258.37

ANALYTICAL REPORT	
2-(1H-indol-3-yl)-N,N-dipropylacetamide (C ₁₆ H ₂₂ N ₂ O)	
2-(1H-indol-3-yl)-N,N-dipropylacetamide	
Sample ID:	1304-16-206, note 233-108/2016, 48-355
Sample description:	powder - white
Sample type:	collected (NGO)-collected
Date of sample receipt (MM/DD/YY):	1/4/2016
Date of entry (MM/DD/YY) into NFL database:	2/10/2016
Report updates (if any) will be published here:	http://www.policija.si/eng/index.php/en/forensic-directorate/1669
Substance identified - structure* (base form)	<chem>CCN(CC)CCc1c[nH]c2ccccc12</chem>
Systematic name	2-(1H-indol-3-yl)-N,N-dipropylacetamide
Other names	
Formula (per base form)	C ₁₆ H ₂₂ N ₂ O
M _r [g/mol]	258.37
Salt form/anions detected	HCl
Solubility	APETICBULIDE-UHFFFAVISA



References

- [1] RESPONSE - Collect, Analyse, Organize, Evaluate, Share – A Response to Challenges in Forensic Drugs Analyses (Short Project Title – Response), Grant agreement no: JUST/ 2013/ISEC/DRUGS/AG/6413; <http://www.policija.si/eng/index.php/en/forensic-directorate/1669>
[2] European project "I-SEE" for strengthening information exchange between Italy and South East Europe neighbouring countries on New Psychoactive Substances, Grant agreement no: JUST/2013/ISEC/DRUGS/AG/6426; see more at <http://www.dss.unifi.it/vp-107-i-see.html>