

Product Note M148 04/14

1827981 TICTAC ATR-FT-IR Drug Library



The TICTAC ATR-FT-IR Drug Library includes ATR spectra from new drugs and new psychoactive substances (NPS) / “legal highs”.

As more and more of these new drugs enter the market, the need to identify them escalates and the difficulty of doing so increases. The relentless increase in the number of new drugs reported across Europe is seen in the European Monitoring Centre for Drugs and Drug Abuse (EMCDDA) figures. TICTAC’s spectral library ensures quick and easy identification for many of these new drugs.

The library has been compiled by TICTAC Communications Ltd. using experience gained over many years of analyzing street drugs. It contains compounds not present in other libraries that are likely to be encountered when testing contemporary street drugs. This includes the drugs themselves, including the new “legal highs”, plus diluents and contaminants.

TICTAC acquired and referenced the substances included in the library. The IR-spectra were measured using the Bruker ALPHA-P system. As new drugs constantly enter the market the library is updated one to two times per year.

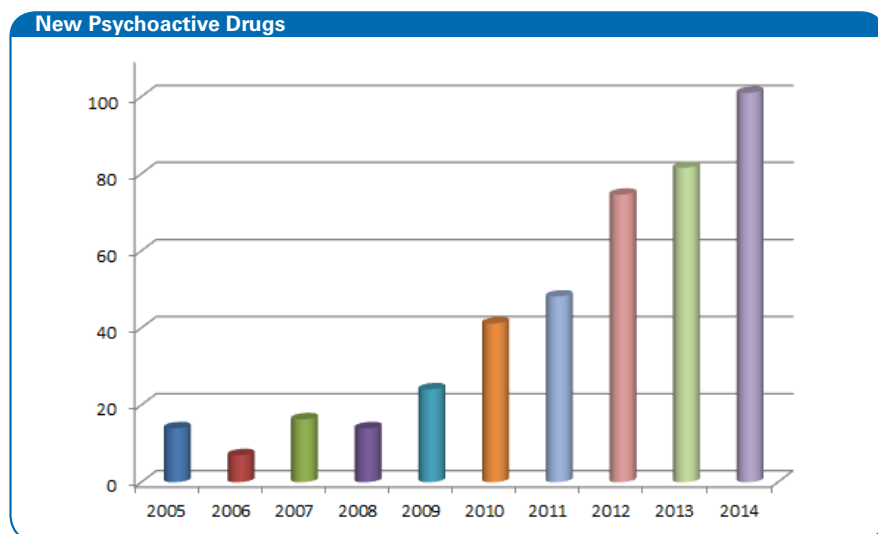


Fig 1: EMCDDA reported number of new psychoactive substances discovered in Europe

Source: European Monitoring Centre for Drugs and Drug Addiction (2015), New psychoactive substances in Europe. An update from the EU Early Warning System (March 2015), Publications Office of the European Union, Luxembourg.

Library content

New drugs such as:

- Piperazines
- Phenethylamines
- Tryptamines
- NBOMe derivatives
- Aminoindanes
- Cannabinoid receptor agonists

Artifacts such as:

- Diluents (organic and inorganic) e.g. boric acid
- Household products confused with street drugs e.g. sugar

Basic library:

- 1827981 TICTAC ATR-FT-IR Drug Library including updates that are released within the next 12 months after purchase of the library.

Upgrade option:

- S905-TT TICTAC ATR-FT-IR Drug Library Update Expansion of the update period by another 12 month/s per ordered unit.

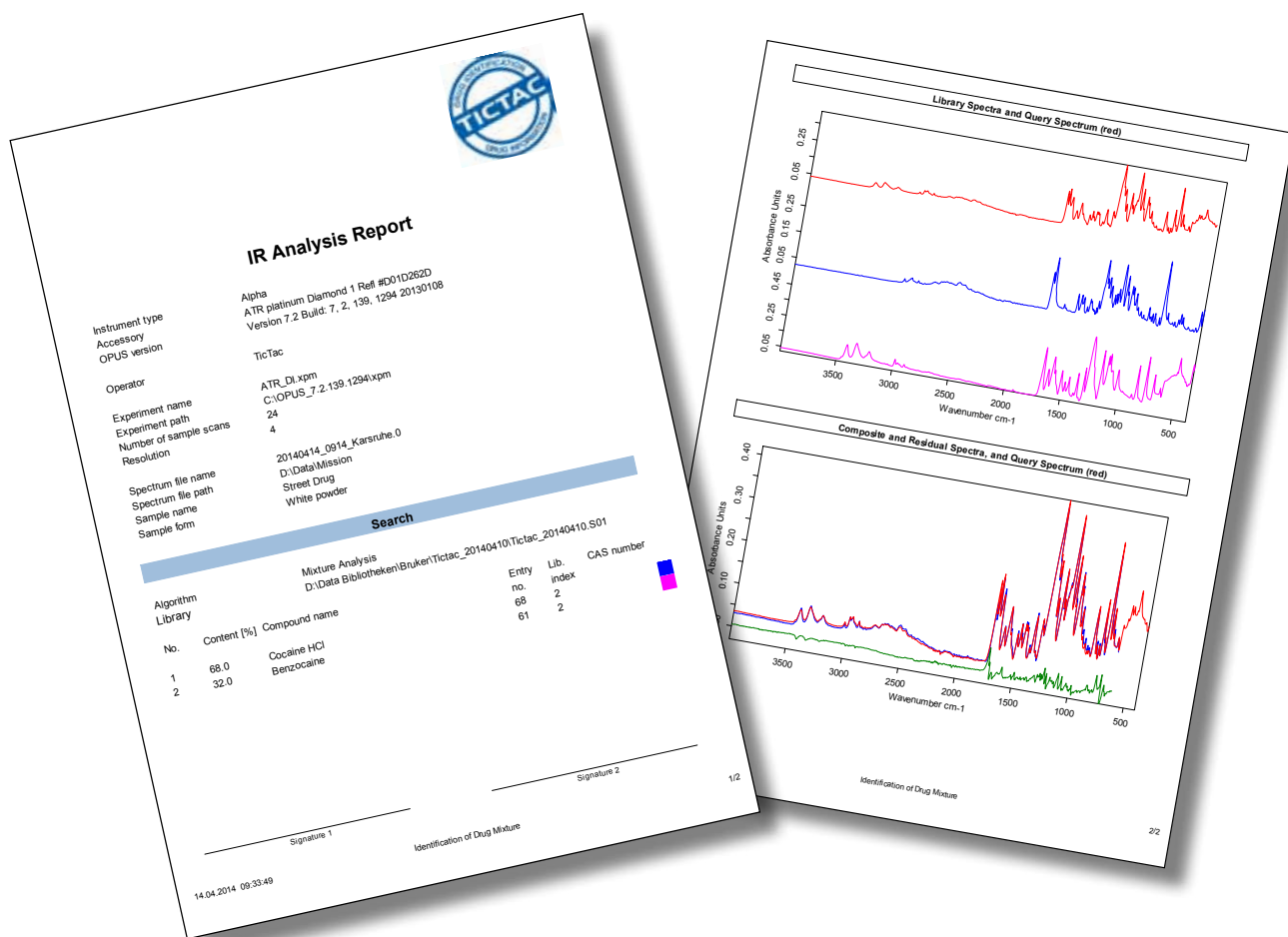


Fig 2: Analysis report of the identification of street drug components using OPUS 7.5 mixture analysis together with the TicTac library.