



SWGDRUG Bulletin

July 2017

The Scientific Working Group for the Analysis of Seized Drugs (SWGDRUG) is celebrating its 20th anniversary and is still going strong. SWGDRUG continues to provide tools and recommendations for the field of forensic seized drug chemistry, as evident in 2016 with the release of Supplemental Document SD-6 *Examples of Measurement Uncertainty for Extrapolations of Net Weight and Unit Count*. Issues continue to challenge our community, whether related to designer opioid derivatives and synthetic cannabinoids, accreditation requirements for measurement uncertainty, or providing reference data for comparison and reference material verification. SWGDRUG is committed to providing relevant and implementable tools and resources to drug chemists around the world. If you have a need at your laboratory that SWGDRUG can help with, please [let us know](#).

Mass Spectral Library Validated

The SWGDRUG Mass Spectral Library has been validated by the National Institute of Standards and Technology (NIST) Mass Spectrometry Data Center. The Seized Drug Mass Spectral Library Project ensured all spectra passed the rigorous validation applied to the NIST library; including comparison to other libraries, evaluation by MS Interpreter software and manual calculation, evaluation by NIST hybrid search functions, and checking the data file information. [SWGDRUG MS Library Version 3.2](#) is set for summer 2017 release and can be downloaded in the following formats: NIST, Agilent, JCAMP, Shimadzu, and Thermo. The validated spectra are denoted in the Compound List file.

Training Resources

One lesser known but valuable resource on the SWGDRUG website relates to [training](#). In cooperation with the European Network of Forensic Science Institutes (ENFSI), a comprehensive outline for training new forensic drug practitioners was created. Then in conjunction with the ENFSI outline, a number of exam questions and learning objectives were drafted for each category.

Other Tools and Resources

[SWGDRUG IR library](#)
[ENFSI Guidelines & Booklets](#)
[Sampling Calculators](#)
[Measurement Uncertainty](#)

Coming Soon

- Calculator tool for Supplemental Document SD-6
- Examples of method validations for GC/MS, FTIR, and Color Tests
- Enhancement of SWGDRUG Recommendations Part IIIB to address effect of limitations on the categorization of techniques