

# NIST/EPA/NIH EI-MS LIBRARY

## 2020 Release

### THE LARGEST INCREASE IN COVERAGE **EVER**

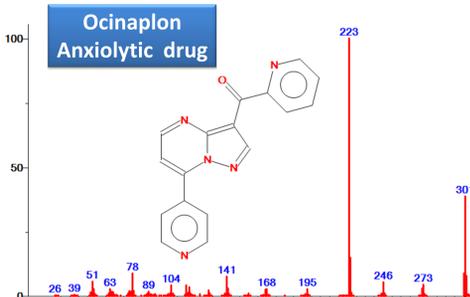
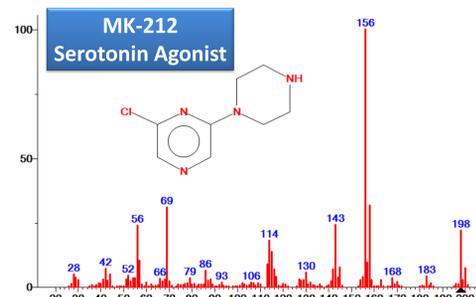
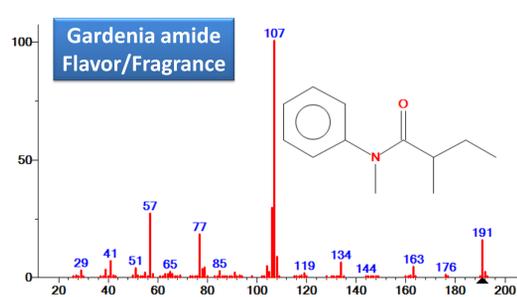
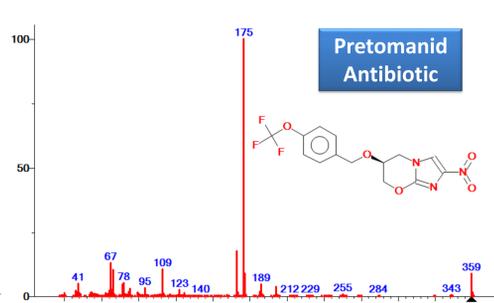
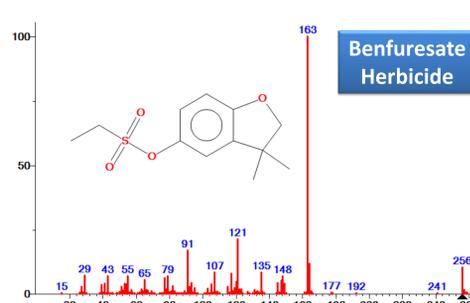
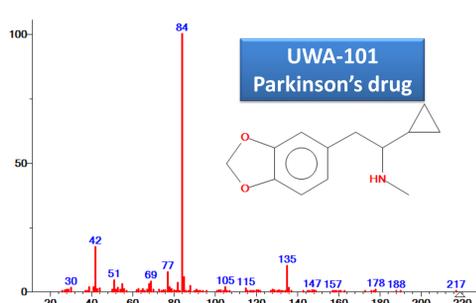
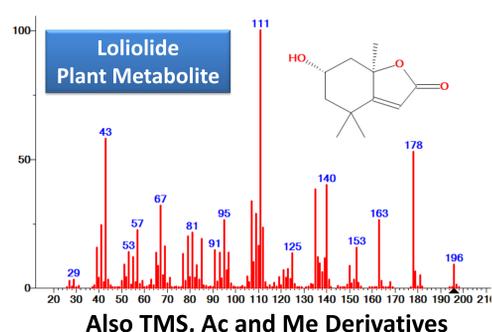
**350,643 Electron Ionization (EI) Spectra**

- 306,869 Compounds, 43,774 Replicate Spectra
- 40 K More Compounds than NIST 17

**447,285 Retention Index (RI) Values**

- 139,963 RI Compounds – 40 K increase
- 112,253 Compounds with both RI & MS

**NEW COMPOUNDS SELECTED FOR IMPORTANCE  
MEASURED AT NIST, THOROUGHLY EVALUATED**

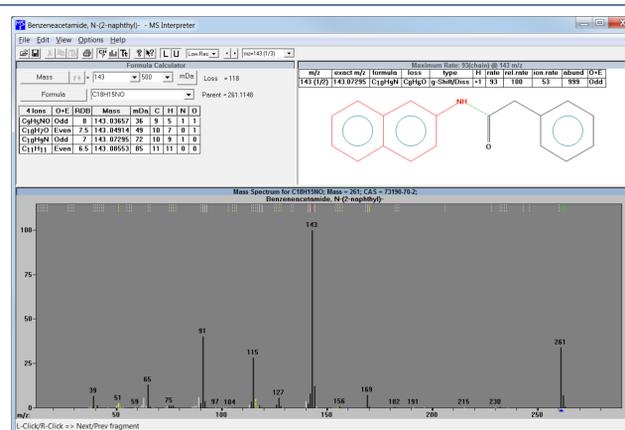
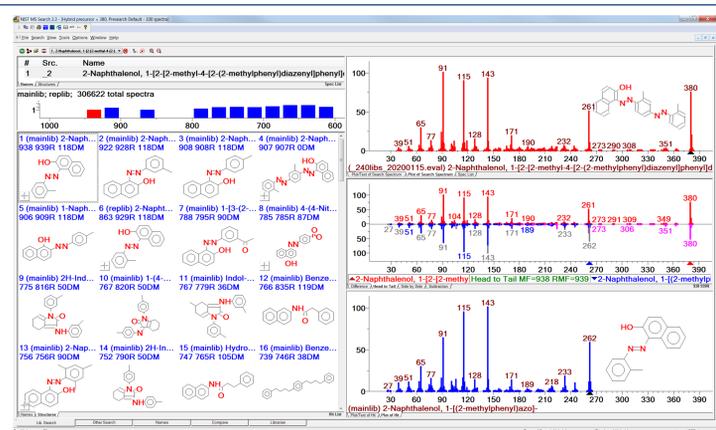


**1,000s of New Compounds of Analytical Interest**

Human & Plant Metabolites  
Flavor/Fragrance – Food  
Drugs & their Metabolites  
Forensics, Toxins  
Pesticides – Contaminants  
Industrial Chemicals  
Petrochemicals,  
Surfactants, Lipids, ...

**NISTMS.EXE**  
USER INTERFACE  
HYBRID SEARCH  
FOR COMPOUNDS NOT  
IN LIBRARY

**NEW AI RETENTION  
INDEX ESTIMATES**

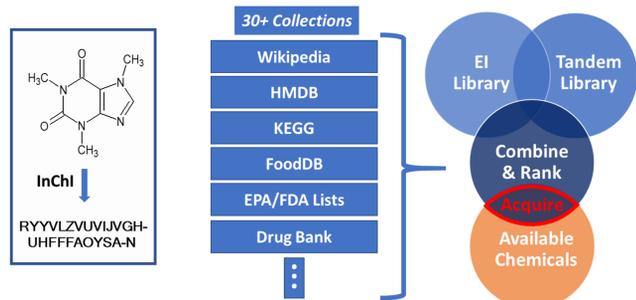


**MS  
INTERPRETER**

**CONNECT PEAKS  
TO STRUCTURES**

**MAJOR UPDATE**

**New Compound Selection Process**

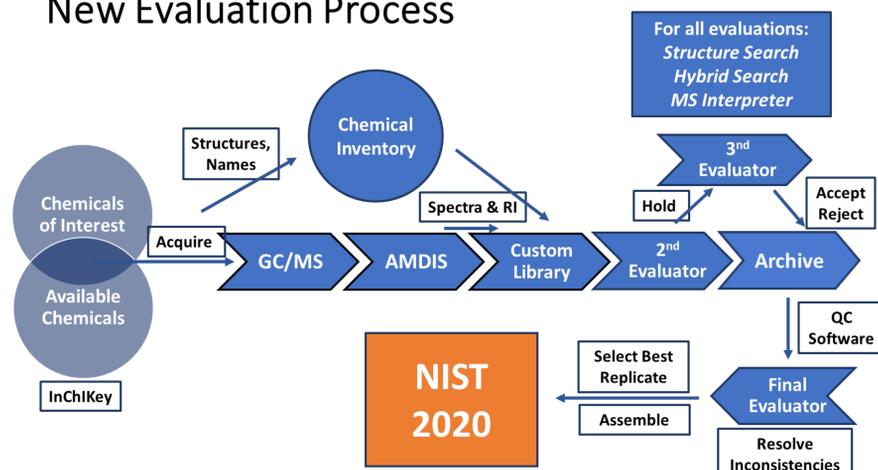


**NEW LIBRARY  
BUILDING METHOD**

**SELECT COMPOUNDS,  
MEASURE SPECTRA  
ORGANIZE BY STRUCTURE  
MULTIPLE EVALUATIONS**

**MS INTERPRETER  
HYBRID SEARCH**

**New Evaluation Process**



<http://chemdata.nist.gov>