

NIST Tandem Mass Spectral Library

2020 Release

31K Compounds, **2X** More than 2017
186K Precursor Ions - **1.3M** Spectra

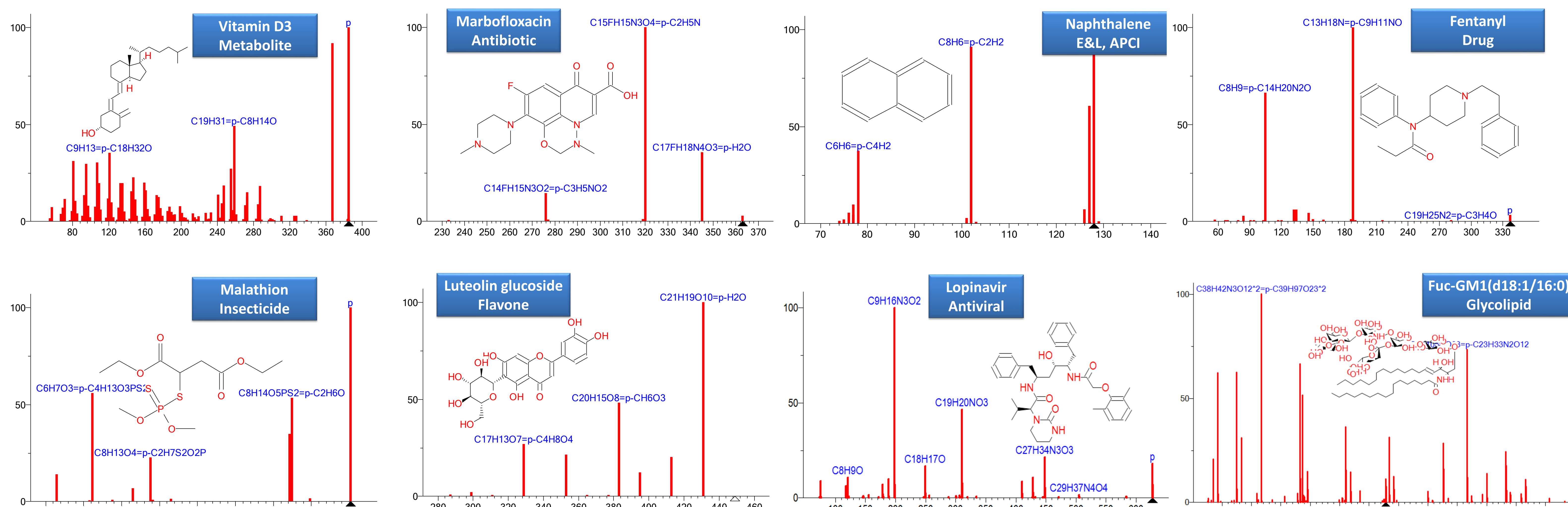
Fragmentation Methods

27,840 HRAM (High Res Accurate Mass) Compounds
29,890 QTOF, HCD, IT-HRAM, QqQ Compounds
29,444 Ion Trap Compounds (Low Res., up to MS⁴)
246 APCI HRAM 'Extractables and Leachables'

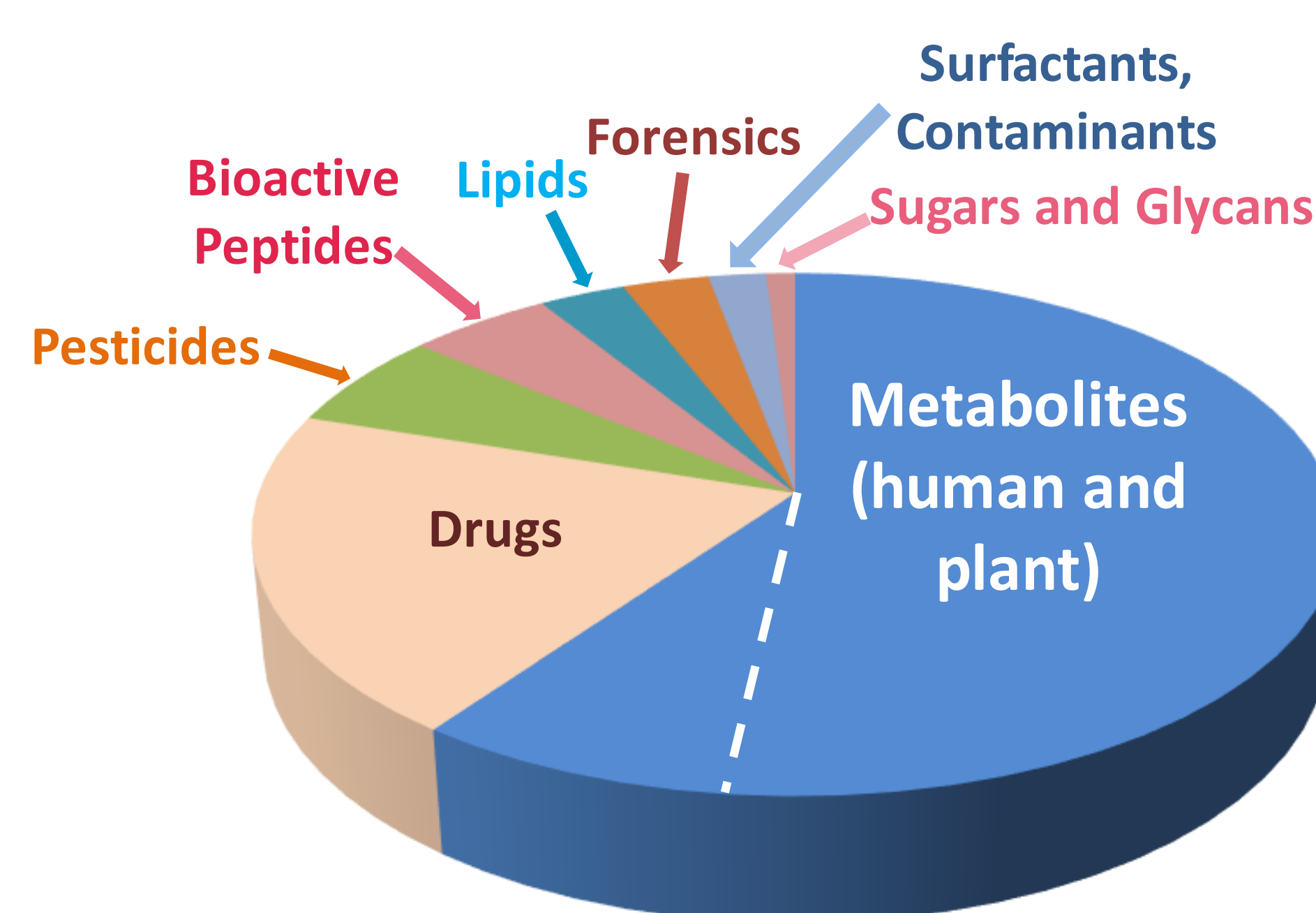
Precursor Ion Types

26,575 Protonated
12,589 Deprotonated
10,032 Water/Ammonia Loss
24,167 Other In-Source Generated

Wide Variety of Compounds



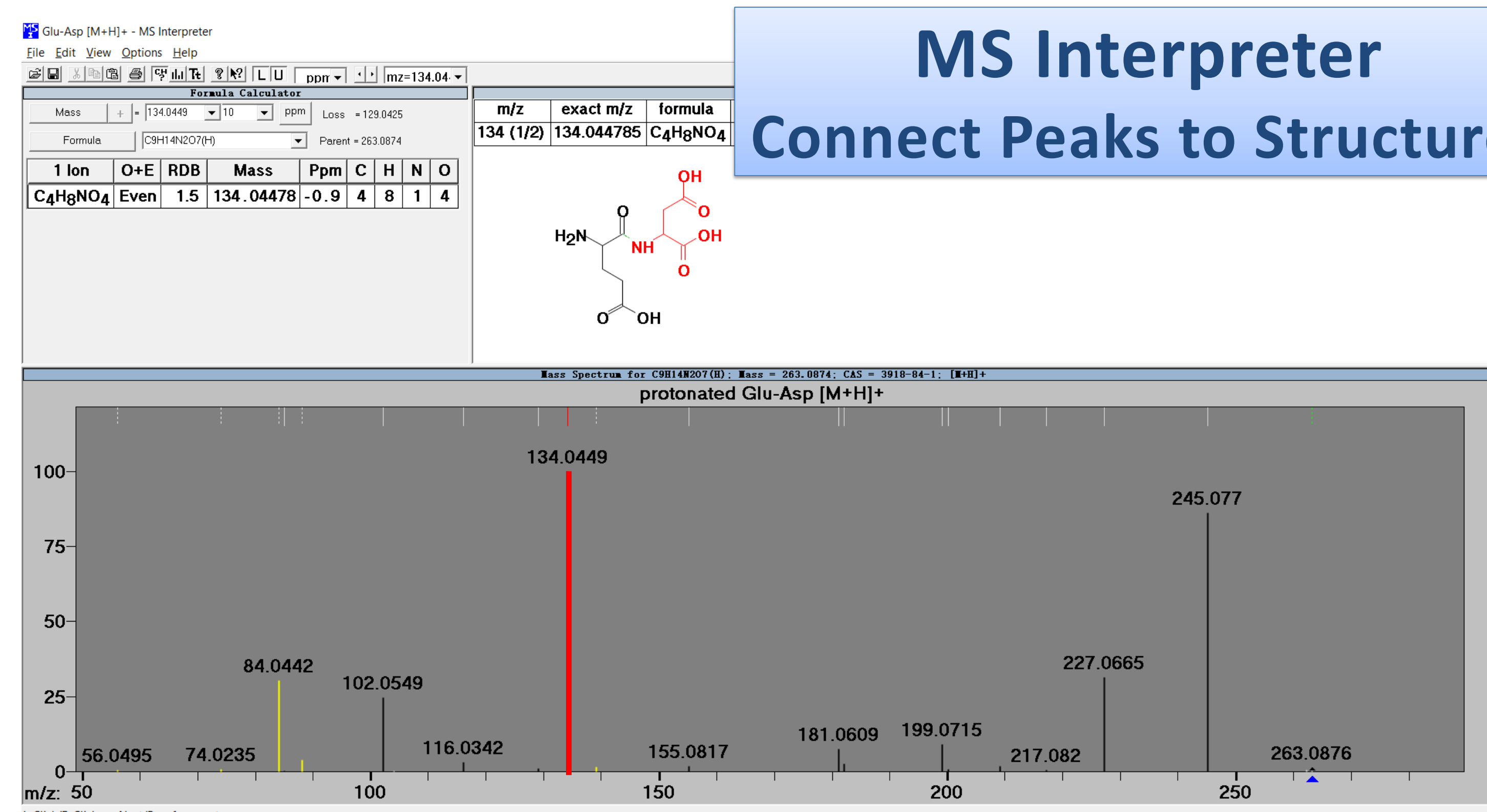
Types of Compounds and Spectra



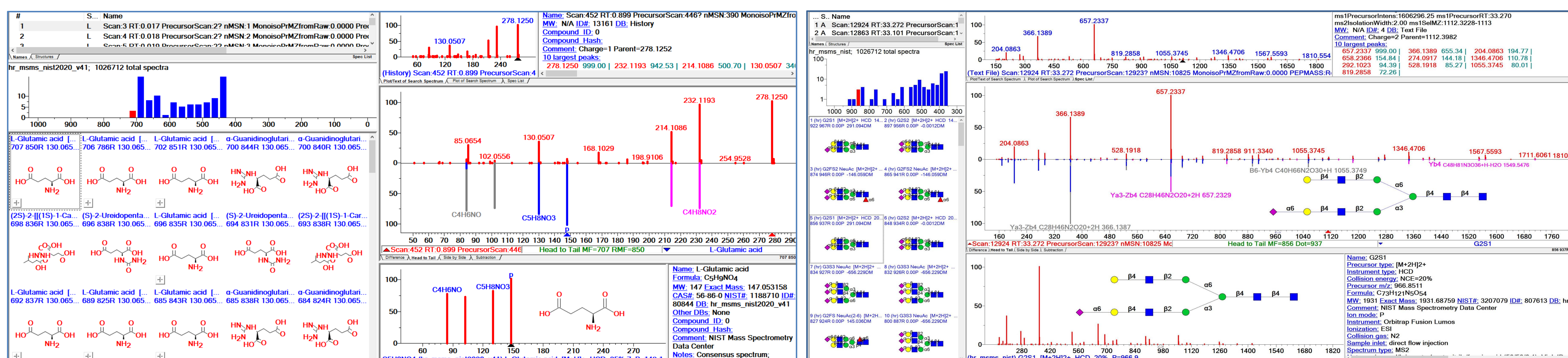
75%(+) 25%(-)
32% MS² in-source
8% MS³ and MS⁴
Over wide energy range

6,000 human metabolites

MS Interpreter Connect Peaks to Structures



Hybrid Search - Identify Compounds Not in the Library



<http://chemdata.nist.gov>