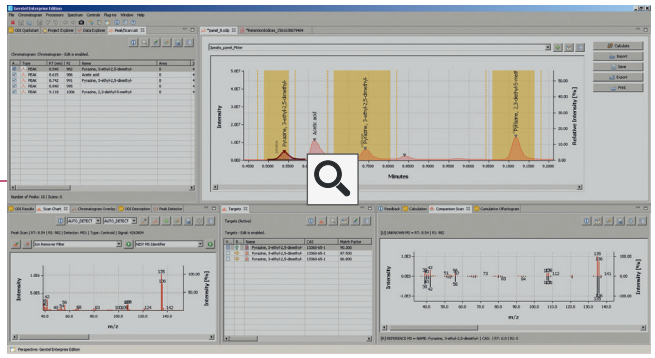
Olfactory Data Interpreter (ODI)

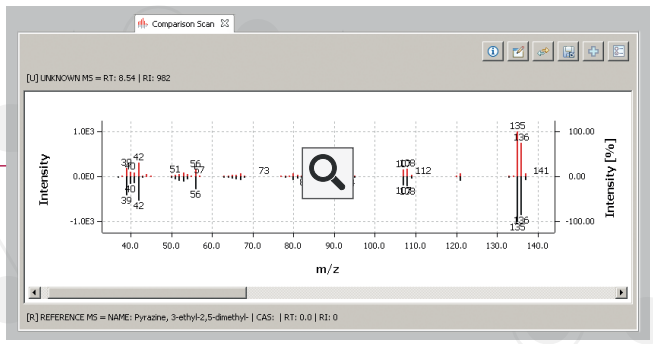
Efficient GC-O/MS data interpretation

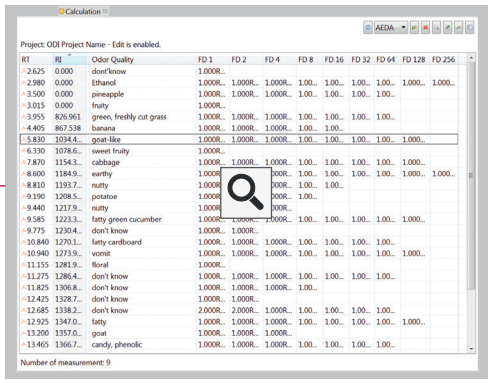
The Olfactory Data Interpreter (ODI) Software processes chromatography data, for example from GC/MS, GC/FID or GC/PFPD, in combination with sensory impressions and intensities obtained using the ODP 4.

The software automatically recognizes and imports GC- and GC-MS data formats from different instrument brands. The ODI displays an overlay of the chromatogram, olfactogram and sensory impressions for easy evaluation and analysis.

In addition, the analyst is presented with a detailed overview of required parameters for processing GC-O data including: Retention times, retention indices (RI), GC-O intensities as well as olfactory descriptors. Based on an n-alkane standard mixture chromatogram, every peak is automatically assigned its retention index.







1 Identification based on GC-O/MS data

The ODI integrates multiple functions for extraction and interpretation of mass spectra. The MS library search function handles library data formats from a variety of producers. The GERSTEL Applications Laboratory recommends the NIST-AMDIS Software, integrated with the ODI-Software for fast and accurate compound identification as well as spectral deconvolution of co-eluting compounds.

2 Aroma-Extrakt-Verdünnungsanalyse (AEDA)

The ODI enables simplified processing of Aroma Extract Dilution Analysis (AEDA) data. The maximum dilution factor, referred to as the Final Dilution factor (FD) at which a substance is still perceptible at the ODP, is stored together with the sensory impression, Retention Index and identification result. The AEDA report can be exported by copy and paste or imported into MS® Excel for further processing.