SHIMADZU
Excellence in Science

Peak Processing Optional Software for LabSolutions™ LCMS and LabSolutions Insight™

Peakintelligence™

Problems with previous algorithms

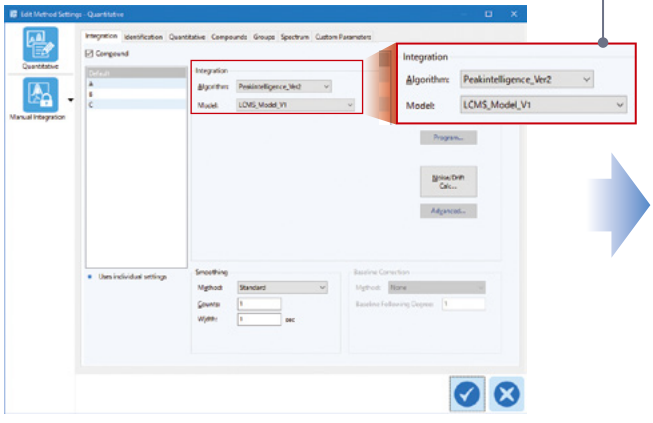
Until now, peak-finding algorithms have required the user to fiddle with multiple parameter settings before they can start data processing. Also, when the algorithm can't deal with a chromatogram, an experienced user has to select the peak by hand. This all adds up to extra time and hassle.

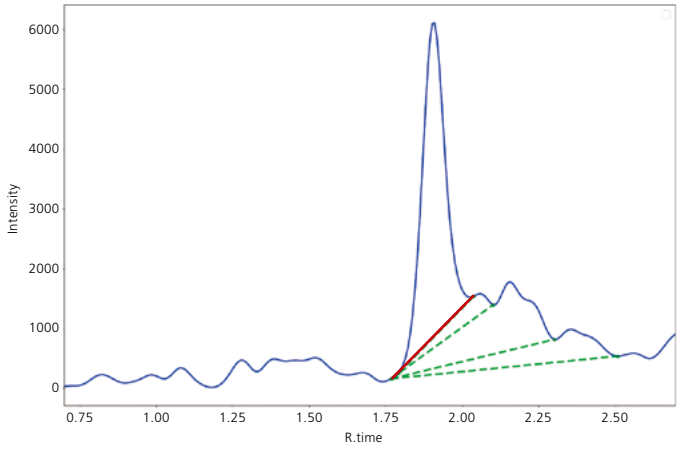
Peak processing without parameter adjustment

Peakintelligence is a world-first*1 algorithm incorporating AI assistance to search for chromatography peaks. Having learnt peak processing skills from experienced users*2, the AI can process data with the same skill level. The algorithm can be implemented immediately without adjusting any parameters, and reduce wrong detection by 1/3 compared conventional algorithm with default setting.

*1 As of August 2019, from internal research
*2 The algorithm cannot learn from processing user peak data.

Simply select the algorithm and model to use.
No need for parameter adjustment!



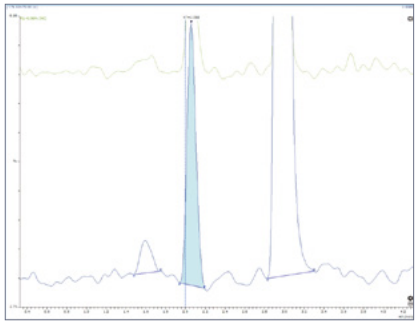
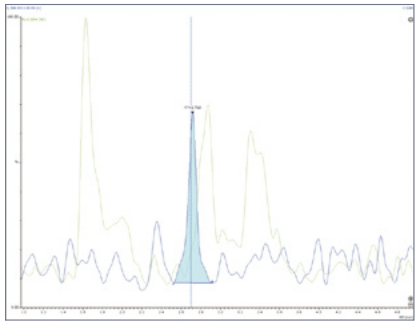
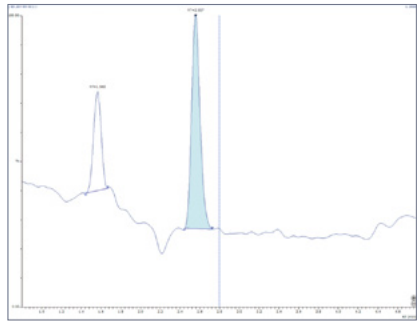


Peak Processing Optional Software for LabSolutions LCMS and LabSolutions Insight

Peakintelligence

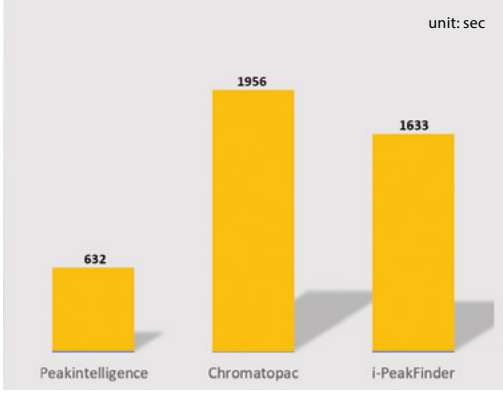
Easily process difficult chromatograms

Even when processing chromatograms that previous algorithms couldn't handle, Peakintelligence can reliably detect peaks without any parameter adjustment necessary.

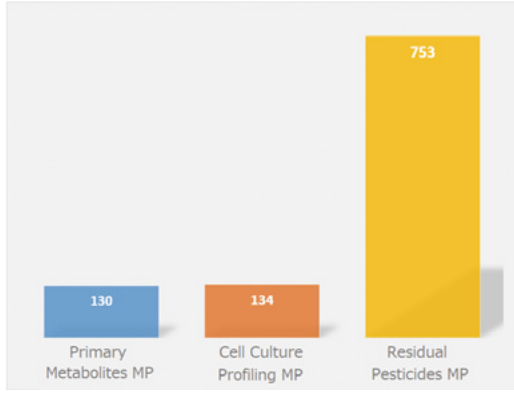
Peak strength is different	Low SN ratio	High baseline
		

Reduced data processing time for a wider compound range

Data processing time



Number of compounds



* Results based on test data from an internal study.

Notes:

- LabSolutions LCMS batch analysis can further improve data processing speed.
- This product is evaluated by using with the "LC/MS/MS Method Package for Primary Metabolites Ver. 3" , the "LC/MS/MS Method Package for Cell Culture Profiling" , the "LC/MS/MS Method Package for Residual Pesticides Ver. 3 " and similar analytical conditions.
- Due to the nature of the technology, there are times when processing results cannot be explained.
- The demo licence is available.
- R&D for this product was carried out as a collaboration between Shimadzu Corporation and Fujitsu Ltd.

SHIMADZU

Shimadzu Corporation

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