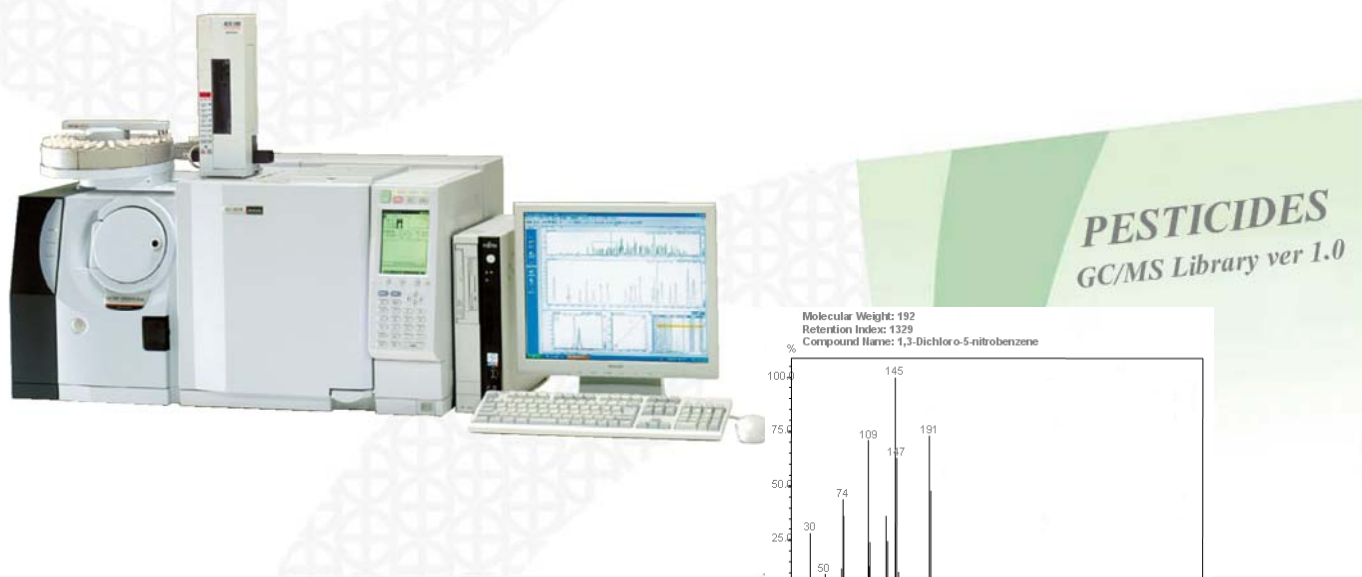


# PESTICIDES GC/MS Library

For Shimadzu GCMS-QP2010 Series

For Food and Beverage Products  
Powerful Backup to Identification of Pesticides residues



**925 Pesticides Compounds:**

**Mass Spectra and Retention Indices Contained in Special Library**

Through Linking with Similarity Search with Retention Index supported by GCMSsolution  
**Highly Reliable and Efficient Identification is Achieved for Pesticides Residues**

## Similarity Search with Retention Index

- The retention index is calculated automatically by GCMSsolution.
- Similarity search with retention index enables greater reliability of search results by matching retention indices with those of compounds contained within the mass spectral libraries.



**Unequivocal Identification for Compounds with Similar Mass Spectra such as Isomers and Homologs.**

# PESTICIDES GC/MS

## PESTICIDES GC/MS

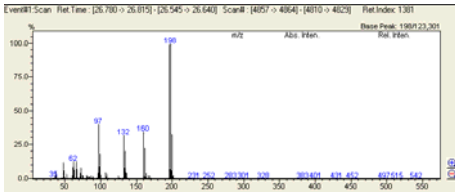
- The Pesticides GC/MS Library contains 925 pesticides and 33 saturated hydrocarbons (C7-40) spectra with retention indices. All the spectra, registered with official CAS information, have been acquired from the injection of pure chemicals. All the retention indices reported have been verified with data reported in the specific literature, and tested for repeatability. The compounds had been tested three times during a six months period.
- The mass spectra and retention indices registered in the Pesticides GC/MS Library were obtained using the Shimadzu GCMS-QP2010. \* The Pesticides GC/MS Library was obtained by the Prof. Mondello group of the University of Messina in Italy. This was done using the SLB-5ms

## Retention Index Search - Greater Assurance and Efficiency of Identification -

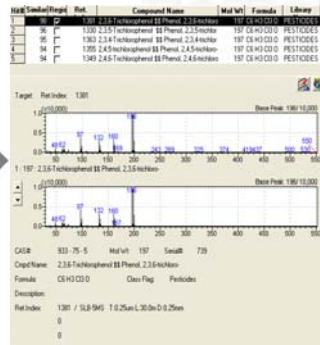
### Target Spectrum

Retention Index **Automatic Calculation**  
Retention Index : 1381

Until Now:  
Similarity Search



**PESTICIDES  
GC/MS Library :  
Similarity Search  
+ Retention Index  
Search**



Similarity 90 or more

Many hits, but Identification is difficult



Conventional library search, making use of solely spectral similarity, often indicates so many probable candidates for an unknown that it is hard to identify it, especially in the case that sample includes isomers and much matrix. GCMSsolution provides "similarity search with retention index", using retention indices registered in Pesticides GC/MS Library. This function makes it possible to perform more reliable and easier search even for complex samples. The results can be output as reports in electronic or hardcopy. \*Pesticides GC/MS Library can be used for GCMSsolution Ver 2.4 or higher.



Similarity 90 or more +  
**Retention Index :**  
Tolerance Range : ± 10

**Identification Is Easy!**



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