

Wiley Registry® of Mass Spectral **Data 2023**

User Manual



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Installation Manual Copyright © 2023 John Wiley and Sons, Inc., Hoboken, New Jersey. All Rights Reserved.

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PUBLISHER'S NOTE

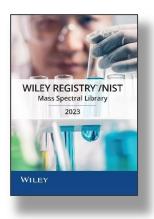
For over 45 years, John Wiley and Sons and Wiley-VCH have worked with the world's leading researchers and practitioners to deliver the spectral libraries scientists have come to rely on.

The Wiley Registry® of Mass Spectral Data is the most comprehensive mass spectral library available. Applications include untargeted GCMS screening and accurate mass workflows with MS-TOF spectra. Included in the 2023 edition are over 873,300 mass spectra, 841,100 searchable chemical structures, and 741,000 unique compounds. Improvements to the Wiley Registry include removal and sequestration of suspect spectra from the main library and the addition of calculated Kovats RI values, splash IDs, and DOIs. The result is a main library that has improved spectral search performance.

SPECTRABASE

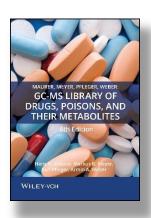
Address: https://spectrabase.com/

SpectraBase is a free web-based database that provides free instant access to the latest compounds covered by Wiley spectral libraries.











CONTACT INFORMATION

Editorial Correspondence

Wiley welcomes contributions of spectra for compounds, especially novel compounds not presently covered in the spectral library. Wiley can handle data in any machine-readable format. Data submissions, editorial notes, and corrections should be sent to the address below:

Wiley Science Solutions

c/o John Wiley & Sons, Inc. 111 River Street Hoboken, NJ 07030-5774 USA Telephone: +1-201-748-6000

Fax: +1-201-748-8888

Email: dbinquiry@wiley.com

Website: https://sciencesolutions.wiley.com/

Customer Care

Customer care is available online or through correspondence at:

Customer Care Center - Consumer Accounts

10475 Crosspoint Blvd. Indianapolis, IN 46256 USA https://support.wiley.com/s/



COMPLIANCE

Products manufactured by WTS are in compliance with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (also known as "RoHS Recast"). In addition, this declaration of conformity is issued under the sole responsibility of WTS. Specifically, products manufactured do not contain the substances listed in the table below in concentrations greater than the listed maximum value.

Substance	Maximum Limit (ppm)
Lead (Pb)	1000
Cadmium (Cd)	100
Mercury (Hg)	1000
Hexavalent Chromium (Cr6+)	1000
Poly Brominated Biphenyls (PBB)	1000
Poly Brominated Diphenyl ethers (PBDE)	1000



GETTING STARTED

Hardware and Software Recommendations

Operating System: Microsoft Windows (Windows 10 or 11 recommended)

CPU: AMD or Intel processor, preferably multiple core

Software: 32-bit or 64-bit software

Memory: At least 2GB

Disk Space: At least 2GB free space

The library is provided in multiple formats, but is not supplied with manufacturer software. Mass spectrometry software should be installed prior to installing the mass spectrometry library, in any format.

If you have questions about the format of the database or need to order a replacement, please contact Wiley Customer Care at https://support.wiley.com/s/.

Registration Code

A registration code accompanies the packaging provided with the flash drive. This database may be installed on only one machine.

License

Unless specified otherwise in writing, this product is sold as a single computer license (for the avoidance of doubt, not networked). Multiple license and network licenses are available. For additional licenses, please contact your sales representative or e-mail dbinquiry@wiley.com.

Help keep the cost of libraries down by reporting all copyright and license violations to the publisher at dbinquiry@wiley.com.



COMPATIBILITY

Wiley has provided you with a selection of native manufacturer formats to aid you in your installation. Please consult your software manufacturer's documentation and customer support before contacting Wiley Customer Support. This flash drive contains the following manufacturer formats:

- Agilent ChemStation
- Agilent MassHunter
- Agilent PCD
- NIST MS Search
- PerkinElmer TurboMass
- Shimadzu GCMSsolution
- Thermo Xcalibur™
- Waters MassLynx

DIRECTORY ASSISTANCE

The table below lists the format, installation file, and their default target directory. If two directories are listed, the first directory is for the spectral data files, the second directory is for the structure files. If one directory is listed, all spectra and structure files are installed into that directory. All installations allow a manual override of the default directory path.

Format	Installation File	Default Directory
ChemStation	SetupW23ChemStation.exe	C:\Database\{libraryname}\{filename}
MassHunter	SetupW23MassHunter.exe	C:\MassHunter\Library\{libraryname}\{filename}
PCD	SetupW23PCD.exe	C:\MassHunter\PCDL\{filename}
MS Search	SetupW23MSSearch.exe	C:\NIST23\MSSEARCH\{libraryname}\{filename}
TurboMass	SetupW23TurboMass.exe	<pre>C:\TurboMass\Idendb\{libraryname}\{filename} C:\TurboMass\Idendb\STRUCTDB\{libraryname}\{filename} me}</pre>
GCMSsolution	SetupW23GCMS-Solution.exe	C:\GCMSsolution\Library\{libraryname}\{filename}
Xcalibur	SetupW23Xcalibur.exe	<pre>C:\ProgramFiles\NISTMS\MSSearch\{libraryname}\{file name}</pre>
MassLynx	SetupW23MassLynx.exe	<pre>C:\MassLynx\Idendb\{libraryname}\{filename} C:\MassLynx\Idendb\STRUCTDB\{libraryname}\{filena me}</pre>

^{*}Installations will include download of a minimum of four {libraryname}: W23main, W23rep, W23leg, W23lq



QUICK-START

- 1. Registration Code: After reading the EULA, enter the Registration Code found on the Certificate of Authenticity provided and begin installation.
- 2. **Computer ID**: The installation program will combine the Registration Code with unique information from your computer to generate a unique Computer ID. If the computer is attached to the internet, the installer can automatically register your computer and provide a Registration Code. If the computer is not attached to the internet, follow procedure 2a or 2b below to manually register your installation.
 - a. Computer ID No direct internet: Note the Computer ID and Registration Code and go to https://www.wileyptmediareg.com/Activation and follow the on-screen instructions. Note the resulting Activation Code and use it to complete on-screen installation prompts on the computer.
 - b. Computer ID No internet: Contact Wiley Customer Support at https://support.wiley.com/s/ or by telephone at (877) 762-2974.
- 3. **Installation**: Please note installation requires the Registration Code that accompanied your packaging. Install the formats you wish to use on a single computer, following the on-screen prompts to "run" the installer. N.B.: For Chrome and Firefox browsers, copy the install file onto a temporary directory. The installer requires RegistrationProcess.dll. Please copy the installer and dll into one directory and activate the installer.

Customer Care Center – Consumer Accounts 10475 Crosspoint Blvd. Indianapolis, IN 46256 USA



STEP-BY-STEP INSTALLATION

- * This installation process mirrors installation on the NIST MS Search software.
- A Registration Code will accompany the packaging provided with your flash drive. If your provided code does not work or your flash drive is not accompanied by a Registration Code, alert Wiley Customer Service at https://support.wiley.com/s/.

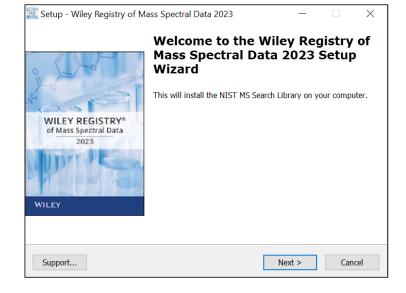
You will be unable to install this library without a Registration Code. Carefully read the End User License Agreement contained on the flash drive or the accompanying packaging before using and/or installing this product.

2. Insert the flash drive for installation.
One file "Installation.htm" is included on the drive to simplify installation by using your web browser. Choose the format(s) you wish to install. Choosing to run the installer will bring you to a set-up wizard splash screen. Choose "Next."

N.B.: For Chrome and Firefox browsers, copy the install file onto a temporary directory. The installer requires RegistrationProcess.dll. Please copy the installer and dll into one directory and activate the installer.

Your license entitles you to install the library on one (1) machine.

Please note that the installation files are unsigned – so a warning may be displayed in Windows. Press run and proceed to the installation. Repeat this process for all of the formats you wish to install on the one computer.





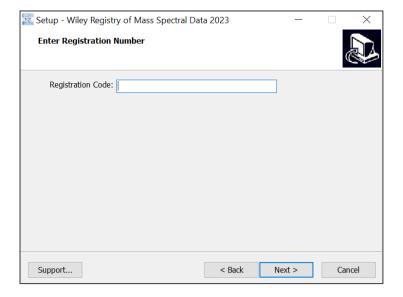
N.B.: Install your spectra/data analysis software prior to installing the format(s) you wish to install.

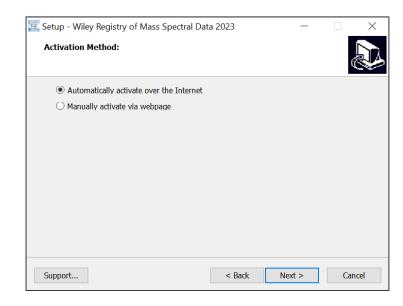
3. Registration Code and Machine ID

Your Registration Code appears on the Certificate of Authenticity accompanying your packaging.

Enter the Registration Code exactly as it appears to begin the installation and press "Next." If the code is incorrect, an error screen will appear.

If the Registration Code is correct, you will be brought to the Activation screen. If your machine has internet connectivity, choose to "Automatically activate over the internet" and then click "Next" to begin internet activation.





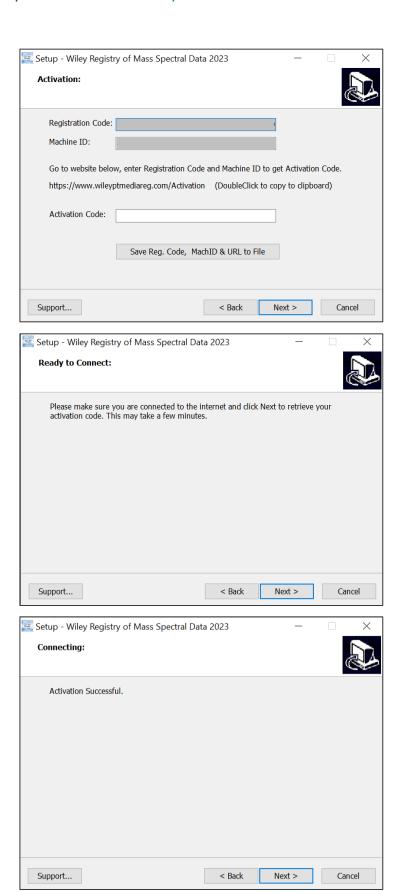


ENABLING DISCOVERY | POWERING EDUCATION | SHAPING WORKFORCES

4. If you choose to manually activate, the Registration Code and the Machine ID will be automatically filled in. You may either double click the web address to copy it to your computer's clipboard and paste it in a web browser, or enter the URL as listed in your web browser.

Alternatively, you may save the Registration Code, Machine ID and URL to a text file that will be saved to the root directory.

In the web browser, enter the Registration Code and the Machine ID. The next screen will provide the Activation Code. Copy this code down and save it, entering it into the Activation screen on the computer that you are installing the spectral library on.



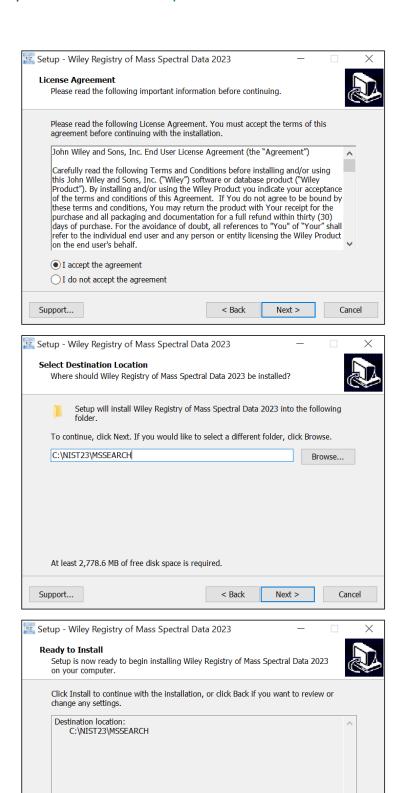


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5. Once your activation is successful, proceed by pressing "Next." The next screen contains the End User License Agreement (35).

Read the agreement carefully and select the "I accept the agreement" option. Then, choose "Next" to proceed to install the library. Spectral libraries should only be used by qualified individuals who meet the requirements outlined in the agreement.

- 6. Press "Next" to proceed to the next step. At this point, the installer will unpack and install the library in the format you have selected. Confirm the target directory and destination location before proceeding.
- 7. Ready to install? After selection of the Destination Folder, choose the "Install" button to begin installation. Allow installation to finish before closing out any applications.
 - N.B.: For Chrome and Firefox browsers, copy the install file onto a temporary directory. The installer requires RegistrationProcess.dll. Please copy the installer and dll into one directory and activate the installer.



< Back

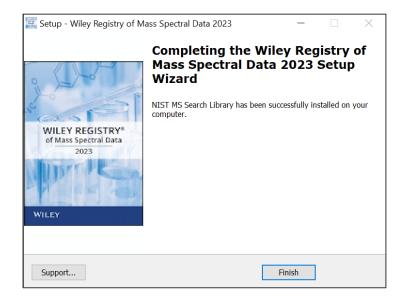
Install

Cancel

Support...



8. Once installation is complete, press "Finish." Be sure to consult your spectra/data analysis software's instructions for connecting to new libraries - some are automatic, but some require manual connection within the software.



Repairing or Uninstalling

Repairing or uninstalling the library should be managed using the "Add/Remove Programs" utility in Windows. If the library is manually moved, removed, or installed using overwrite mode, the Windows utility may not work.

Getting Help

Getting Help – you can choose to go to: https://support.wiley.com/s/



GENERAL DATABASE CONTENT

Wiley mass spectrometry libraries have a wide variety of uses. Practitioners and researchers are encouraged to evaluate their own needs and decide what libraries are appropriate for them.

Wiley Registry 2023 - A complete, general-purpose high-quality library comprised of main, replicate, and deleted sections for analytical laboratories. Often used as the foundation library for research, quality control, deformulation, and for forensic, toxicology, and homeland defense applications.

- W23 main: Use this library for untargeted analysis in everyday scientific work.
- W23 replicate: Use this library when further confirmation or results are required.
- W23 legacy: Use this library when searching for confirmation on past work.
- W23 low quality: Use this library when further confirmation or results are required.

See https://sciencesolutions.wiley.com/ for other mass spectrometry, NMR, IR, and enterprise spectroscopy software from Wiley-VCH and John Wiley and Sons, Inc.

Basic Functions

The enclosed library can be used as the primary search library or can be searched along with other libraries. We recommend, for mission-critical tasks, that users consult both a general library such as the Wiley Registry of Mass Spectral Data 2023 and a specialized library such as the GC-MS Library of Drugs, Poisons, and Their Metabolites, 6th Edition or Mass Spectra of Flavors and Fragrances of Natural and Synthetic Compounds 3rd Edition.

Search Tips

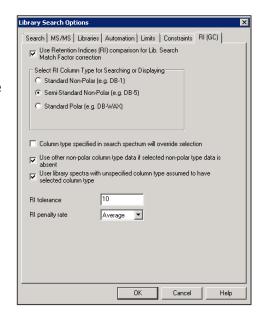
When using parametric searching, many text search programs provide better results when names are begun and ended with wild cards (e.g., "*"). However, in NIST MS Search, this approach will not work.

While every effort has been made to include a broad spectrum of compounds, when trying to match an unknown against the database, bear in mind that some unknowns, especially new variants of designer drugs and steroids established after publication may only be available in our specialized collections.



NIST MS Search:

Calculated RI values are added under a built-in data field, which show up in the hit list under RI and in the record pane under Experimental RI median±deviation. Please note that these are *not* experimental RI values. Additionally, for n-alkanes, theoretical RI values were used rather than calculated ones. The RI values can be used to improving search results by navigating to Options > Library Search Options and selecting the Use Retention Indices option under the RI tab.



Agilent ChemStation/MassHunter:

In this software, the User Index field is populated with calculated Kovats retention indices.

Shimadzu GCMSsolution:

In this software, the W23main library is broken up into 3 parts, W23MAIN1, W23MAIN2, and W23MAIN3.

PerkinElmer TurboMass/Waters MassLynx:

In this software, the Value 2 field is populated with calculated Kovats retention indices.



Source Codes

If code stands for a literature reference, the meaning of the four items are for: 'sourcevolume-page number-compound label'

E.g. The source information 'K-108-2070-19' decodes to:

- K Journal Chem. Ber. (Chemische Berichte)
- 108- Volume 108 of the journal
- 2070 Page number on which the spectrum or compound is given
- 19 Label of the compound in the article

If the source points to anything other than a scientific publication, 'volume-page numbercompound label' have varying information (usually year and/or ID number).

Source Code	Source
А	Archives of Mass Spectral Data
A1	Organic Letters
A1	JN Ronson, SJRowland, Nature, 561-563
A2	Mendeleev Communications
A2	Jeanne Ayache, profil reactionnel des reactions de
	fragmentatin des ethylene-acetals des cyclanones
	substituees en spectrometrie de masse par impact
	electronique, These, University of Paris, 1978
A3	Organic Preparations and Proceedings
A3	Dr. Allenmark, Univ. Hosp., Linkoping, Sweden
A4	Organometallics
A4	F. Arcamone, G. Cassinelli, G. Franceschi, S.
	Penco, C. Pol, S. Redaelli and A. Selva, Structure
	and Physical Properties of Adriamycin, Springe-
	Verlag, Berlin, 1972
A5	Organic Process Research and Development
A5	Yoshiro Masada, Analysis of Essential Oils by Gas
	Chromatography and Mass Spectrometry
A6	Journal of Chemical Technology and Biotechnology
A6	Vlada Hanus, The J. Heyrovsky Institute of
	Physical Chemistry and Electrochemistry,
	Czechoslovak Academy of Sciences,
	Czechoslovakia
A7	Journal of the American Society for Mass
	Spectrometry
A7	Parmar, V. S., University of Delhi, Delhi-110 007
A8	International Journal for Mass Spectrometry
A8	Gustav Graff, The Hormel Institute, University of
	Minnesota, Austin, Minn., 55912
A9	European Journal for Mass Spectrometry
A9	Muramatsu, T., University of Minnesota, The
	Hormel Institute, Austin, Minn., 55912
AA	Atlas of Mass Spectral Data (Wiley)





AB	Biochimica et Biophysica Acta
AC	Bulletin Societe Chimique de France
ACI	Angewandte Chemie International Edition
ACR	Analytical Chemistry Research
ACS	ACS Comb. Sci.
AD	Mass Spectrometry Data Centre, AWRE,
	Aldermaston, Berks., England
AE	Journal of Biological Chemistry
AF	Journal of Medicinal Chemistry
AG	Journal of Organometallic Chemistry
AH	Monatshefte fur Chemie
AI	Archiv der Pharmazie
AJ	Bulletin of the Chemical Society of Japan (Nippon
	(Kagakukai)
AJC	Arabian Journal of Chemistry
AJO	Asian J. Org. Chem.
AK	The Biochemical Journal
AL	Biochimie (Bull. Soc., Chim. Biol. Fr.)
AM	S. P. Markey, University of Colorado Medical
	Center, Denver, CO
AN	Bulletin Societe Chimique de Belges
AO	Environ. Health Perspec.
AOC	Appl. Organometal. Chem.
AP	Amer. Petroleum Inst., Res. Project 44
APC	Arch. Pharm. Chem. Life Sci.
AQ	Pure Appl. Chem.
AR	Pest. Biochem. Physiol.
ARK	Arkivoc: A Platinum OA Journal of Organic
	Chemistry
AS	J. G. Lawless, NASA, Moffett Field, CA
ASC	Adv. Synth. Catal.
AT	Tetrahedron Letters
AU	Carbohydrate Research
AV	Analytical Biochemistry
AW	Inorganic Chemistry
AX	Amer. Petroleum Inst., Res. Project 44
AY	Journal of Lipid Research
AZ	Chemistry and Industry, London
В	Australian Journal of Chemistry
B1	Synthetic Communications
B2	The Metropolitan Museum of Art
B2	A. P. Bruins, Intramolecular Functional Group
	Interactions and Ion Molecule Reactions of
	Gaseous Ions from Some Benzylamino and
	Benzyloxy Compounds, Amsterdam, 1976
В3	Journal of Synthetic Organic Chemistry
	- - - - - - - -



В3	Advances in Prostaglandin, Thromboxane, and
	Leukotriene Research, vol. 18, Mass Spectra of
	Prostaglandins and Related Products, New York
	1989
B4	Journal of Chemical Research
B4	HP Particle Beam LC/MS Book of Spectra, Dr. Alex
	Apffel, Hewlett-Packard Company, Palo Alto,
	California 94304
B5	Chemical Science
B5	Mervyn Lewis, University of Bristol
B6	Russian Chemical Review
B6	Yao-Zu Chen, Department of Chemistry, Lanzhou
	University, Lanzhou, PRC
B7	Journal of the Chemical Society - Dalton
	Transactions
B7	Polycylic Aromatic Compounds
B8	Biochemica, Biophysica Acta
B8	William T. Miller, Department of Chemistry,
	Cornell University, Ithaca, NY 14850
B9	Carbohydrates Research
B9	Chrys Wesdemiotis, Department of Chemistry,
	University of Akron, Akron, OH 44325-3601
BA	D. J. Harvey and M. G. Horning, Baylor College of
	Medicine, Houston, TX, W. R. Sherman and M.
	Zinbo, Washington University School of Medicine,
	St. Louis, MO, C. J. W. Brooks and B. S.
	Middleditch, University of Glasgow, Glasgow, Scotland
BB	
DD	Dibenzoacridine, R. Depaus, CES Joint Reseearch Center, Netherlands
BC	J. L. Aubagnac (see MA)
BD	A. T. Balaban, Comitetul de State Pentru Energia
	Nulleara, Institutal de Fizica Atomica, Bucharest,
	Romania
ВЈО	Beilstein J. Org. Chem
BK	Bruce Kennett, CSIRO, Australia (see XW)
BL	BLR Drug Spectra, Subcommittee 6, Amer. Soc.
	Mass Spectrom.
ВМ	Quantitative Mass Spectrometry, B. J. Millard
BR	Mass Spectra of Paraffins with 10-24 Carbon
	Atoms, V.A. Herlan
BS	Biomedical Mass Spectrometry, Indexing
	Reference Forms
BU	Buchert, Arne, Ministry of the Environment,
	National Food Institute, Denmark (obtained 1981)
BW	Bruce Wilkes
С	J. Amer. Chem. Soc.



C1	Revue Roumaine de Chimie
C1	Kiyotaka Kobayashi, Department of Chemistry,
	Gakushuin University, Toshima-ku, Tokyo, Japan
C2	Bio Organic & Medicinal Letters
C2	Richard Caprioli, The Analytical Chemistry Center,
	University of Texas Medical School (obtained
	1981)
C3	New Jounal of Chemistry
C3	Takeshi Kinoshita, Central Research Laboratories,
	Sankyo Co., Ltd., Hiromachi Shinagawa-ku, Tokyo
	140
C4	Chemistry Letters
C4	Akio Kinumaki, Microbilolgical Department,
	Biological and Chemical Research laboratories,
	Tanabe Seiyaku Co., Ltd., Toda, Saitama, Japan
C5	Chimia
C5	Tamio Ueno, Pesticide Research Institute, College
	of Agriculture, Kyoto University, Kyoto
C6	E. Brachen
C7	Lu Xiang-Jun, Central laboratory, Nankai
	University, Tianjin, PRC
C8	Firmenich
C9	Quaderni di laboratorio di spettrometria di massa,
	No.2 1991
CA	Archives of Mass Spectral Data, 3, 536-514
	(1972)
CAJ	Chem. Asian J.
CAY	Cayman Chemical Company
СВ	A. L. Burlingame, ed., Advances in Analytical
	Chemistry and Instrumentation, Vol. 8, Wiley-
on c	Interscience, New York, NY, 1970
CBC	ChemBioChem (Wiley journal)
CBD	CHEMISTRY & BIODIVERSITY
CC	Callery Chem. Co., Callery, PA
CCA	Croat. Chem. Acta
CCC	ChemCatChem (Wiley journal)
CCL	Chinese Chemical Letters
CD	P. Z. Chong, Y. E. Peng, Q. N. Fang; Mass Spectra
	of Natural Organic Compounds, Chinese Academy
	of Medical Science: Institute for Pharmacological
CE	Studies, 1983 Catherine E. Costello, MIT, Dept. of Chem.,
CL	
CC	Cambridge, MA 02139
CG	G. Spiteller, Massenspektromische Strukturanalyse
	Organischer Verbindungen, Verlag Chemie, GmbH,
	Weinheim, Germany, 1966



СН	M. T. Cheng, Polyandrocarpidines: Antimicrobial
	and Cytotoxic Compounds from the Marine
	Tunicate Polyandrocarpa SP. (Thesis), U. of Ill. at
	Urbana-Champaign, 1978
СНО	ChemistryOpen
CI	M. T. Cheng, Chevron Research & Technology
	Company, 100 Chevron Way, Richmond, CA
	94802-0627
CIZ	Chemie in unserer Zeit
CJ	Claus Koppel - Free Univ. of Berlin
CJC	Chin. J. Chem.
CK	J. H. Beynon, R. A. Saunders and A. E. Williams,
	The Mass Spectra of Organic Molecules, Elsevier
	Publishing Co., Amsterdam, The Netherlands,
	1968
CL	W. H. McFadden, Techniques of Combined Gas
	Chromatography/Mass Spectrometry: Applications
	in Organic Analysis, Wiley-Interscience, New York,
	NY, 1973
CM	Chemical Concepts GmbH, Tel. +49(0)6201-
	606433, P.O. Box 100202, D-69442 Weinheim,
	Federal Republic of Germany
CMC	ChemMedChem
СО	Continental Oil Co., Ponca City, OK
СР	Wan-Kai Chu, Painting Industry Research Institute
	of Chemical Industry, Lanzhou, China
CPC	ChemPlusChem (Wiley journal)
CR	CRC Handbook of Mass Spectra of Drugs, 1981
CR	Chem Research in Toxicology
CRT	Chemical Research in Toxicology
CRY	Cryst. Res. Technol.
CS	J. Seibl, Massenspektrometrie, Akademische
	Verlagsgesellschaft, Frankfurt am Main, Germany,
	1970
CSC	ChemSusChem (Wiley journal)
CSS	Chem. Sci Chemical Science RSC
CST	Catal. Sci. Technol.
СТ	Journal of Toxicology: Clinical Toxicology
CU	Arch. Mass Spec. Data, 3, 510-524 (1972)
CW	D. H. Williams and I. Howe, Principles of Organic
	Mass Spectrometry, McGraw-Hill Book Co. (UK),
	1972
CY	Arch. Mass Spec. Data, 3, 388-402 (1972)
D	Biochemistry (USA)
D1	Synletter



D2	E. G. DeJong, Mass Spectrometry of
	Permethylated Disaccharides and some Related
	Compounds, Rotterdam, 1980
D3	Waller-Dermer, Biomedical Applications of Mass
	Spectrometry, Wiley-Interscience, 1980
D4	Dragoco Inc., Gordon Dr., POB 261, Totowa, NJ 07512
D5	McGuire,J.M.,United States Envirnmental
	Protection Agency, Envirnmental Research
	Laboratory, Athens, Georgia, 30613-7799
D6	Comptes rendus des (Seances de l'Academie Francaise Series ?)
D7	Comptes rendus des Seances de l'Academie
	Francaise Series D
D8	Archiv der Pharmazie
D9	Journal of the Brazilian Chemical Society
DA	Chemosphere
DB	H. Budzikiewicz, C. Djerassi, and D. H. Williams,
	Structural Elucidation of Natural Products by Mass
	Spectrometry, Vols. 1 and 2, Holden-Day, San
	Francisco, 1964
DC	Ibid., Mass Spectrometry of Organic Compounds,
	1967
DD	Int. J. Environ. Anal. Chem.
DE	C. Djerassi, Stanford University, Palo Alto, CA
DF	Zhurnal Organicheskoi Khimiia
DG	Khimiya Geterotsiklicheskikh Soedinenii
DH	Zhurnal Obshchei Khimii
DI	Akademia nauk SSSR, Doklady, Seria Khimiia
DJ	Recueil Des Traveaux Chimiques Des Pays-Bas
DK	C. R. Acad. Sci., Paris, Ser. C. Sciences Chimiques
DL	Bulletin de la Societe Royale des Sciences de Leige
DM	F. W. McLafferty, Interpretation of Mass Spectra,
	2nd ed. 1973
DN	O. A. Mamer, W. J. Mitchell and C.R. Scriver, Eds.
	Application of GC/MS to the Investigation of
	Human Disease
DO	A. Frigerio and N. Castagnoli, Jr., Eds. Mass
	Spectrometry in Biochemistry and Medicine, Raven
	Press, New York, 1974
DP	Spectroscopy Letters
DQ	Z. Phys. Chem. (Frankfurt)
DR	Bulletin de l'Academie Royale de Belgique (Classe
	des Sciences)
DS	Safe and Hutzinger, Mass Spectrometry of
	Pesticides and Pollutants



T	
DT	R. Hague and F. J. Biros, Eds. Mass Spectrometry
	and NMR Spectroscopy in Pesticide Chemistry,
	Plenum Press, New York, 1974
DU	Drug Metabolism and Disposition
DV	Svensk Kemisk Tidskrift
DW	Brennstoff-Chemie
DX	J. Chem. Soc. Japan (Nippon Kagaku Zasshi)
DY	Antimicrob. Agents Chemother
DZ	Zeitschrift fur Anorganische und Allgemeine
	Chemie
E	Anal Chem
E1	Chemical & Pharmaceutical Bulletin
E1	Edgewood Arsenal Technical Report EC-TR-76059,
	June, 1976 Samuel Sass, Theodore W. Dolzine,
	and Timothy L. Fisher
E2	Chemia Switzerland
E2	Edgewood Arsenal Technical Report EC-TR-76111,
	July, 1977 Timothy L. Fisher and Samuel Sass
E3	Edgewood Arsenal, private communication
EA	Walter Shackelford, USEPA, ERL, Athens, GA
	30605, Pollutant Collection
EB	Ella Baranofsky
EC	Chem. Div., Air Pollution Control Directorate,
	Ottawa, Canada
ED	E. F. Domino, Department of Pharmacology,
	University of Michigan
EK	James Little, Eastman Chemical Co., Kingsport, TN
EL	Eli Lilly, J. Occolowitz, MAT 731
EM	European Journal of Mass Spectrometry
EMC	European Journal of Medicinal Chemistry
EN	Proceedings of the International Conference on
	Environmental Pollution, September 1981,
	Thessaloniki, Greece, Editor, A. Anagnostopoulos
EP	J. McGuire, Environmental Protection Agency,
	Athens, GA
ES	Environmental Science and Technology
ET	Misc Spectra
EU	R. Depaus, Commission of the European
	Communities Joint Research Center, Holland
F	Tetrahedron
F1	Doklady Chemistry
F2	Acta Chimica Hungarica
F2	Edwin H. Flynn, Cephalosporins and Penicillins,
	Academic Press, New York, NY, 1972
F2	Journal of Medicinal Chemistry
F3	Israel Journal of Chemistry
F4	Synthesis





E5	Organic and Riomelacular Chamistry
F5 F6	Organic and Biomolecular Chemistry
	Angewandte Chemie
F7	Chemical Society of Pakistan Journal
F8	Oriental Journal of Chemsitry
FA	Analytical News, Finnigan MAT
FAC	Field Analyt. Chem. Technol.
FCX	Food Chemistry: X
FF	Flavour Fragr. J.
FI	Application Tips, Finnigan Corp., Sunnyvale, CA
FL	Finnigan Spectra, Finnigan Corp.
FM	Oliver Fiehn, UC Davies
FT	F. Turecek, J. Heyrovsky, Inst. of Phys. Chem. and
	Electrochem. Czechoslovakia
FV	V. Hanus, F. Turecek, Contribution To The Registry
	of Mass Spectral Data, Czechoslovak Academy of
	Sciences, The J. Heyrovsky Inst. of Phys. Chem.
	and Electrochem., July, 1982
FY	Kexure Tongbao
G	Collection of Czechoslovak Chemical
	Communications
G1	Prof. Pirjo Vainiotalo, Department of Chemistry,
	University of Joensuu, Joensuu, Finland
G2	Bioorganic & Medicinal Chemistry
G2L	Bioorg. Med. Chem. Lett.
G3	Bulletin of the Chemical Society of Japan
G4	Journal of Natural Products
G5	Journal of Labelled Cpds and
	Radiopharmaceuticals
GA	Walter Shackelford, USEPA, Athens, GA (see EA)
GC	GC-MS News
GCH	Green Chem.
GM	G. W. A. Milne, Lab. of Chem., National Heart,
	Lung and Blood Inst., NIH, Bethesda, MD 20014
GT	L. Abbey, Georgia Tech
Н	Helv Chim Acta
Н	Helv. Chim. Acta
H1	Heterocycles
H2	H. J. Hofman, On the Mass Spectrometry of Some
	Cyclopropyl Compounds, Amsterdam, 1966
Н3	C. S. Hsu, Exxon Research and Engineering Co.
	Analytical and Information Division, POB 121,
	Linden, NJ 07036 (obtained 1980)
HAC	Heteroatom Chemistry
НВ	W. Haddon and Buttery, Western USDA Lab.
HC	Chemistry of Heterocyclic Compounds (Chem
	Hetero Comp)
	necero comp)



ue	Distant Hannahara May Dlanels Tret form
HE	Dieter Henneberg, Max Planck Inst. fur Kohlenforschung, Mulheim, West Germany,
	Magnetic Tape Collection
НО	Arch. Mass Spec. Data, 3, 172-188 (1973)
HU	Huang Yaozeng and et al., A Novel Acetylenic
l no	,
	Ester-Vinyl Ether Rearrangement, Shanghai Inst.
LIV	of Org. Chem., Academia Sinica, Shanghai, China
HY	C. H. Huang and Y. M. Yang, Inst. Maateria
I	Medica, Shanghai, China Canadian J. Chem. (Can. J. Chem.)
IC	,
IC .	Industrial Chemical Industries PLC, Eight Peak
IT	Index
IT TV	Ion Trap Newsletter
IV	Ivan Vidan
J	J Org Chem
JA	JASMS T. I.
JB	J. Biochem., Tokyo
JC	J Chromatography (J. Chromatog.)
JCR	J. Chem. Research
JCS	J. Chem. Sci.
JD	J. Chromatog. Sci.
JE	J. Chromatography A
JF	J. Prakt. Chem.
JFC	Journal of Fluorine Chemistry
JH	J. D. Henion and et al., Equine Drug Testing &
	Research Program MS Data Base, NYS Coll. of Vet.
	Med. 1st Ed. 1982
JL	J. Labelled Compounds
JM	Jim Shoemaker, Metabolic Screening Lab, Cardinal
	Glennon Children's Hospital, St Louis Univ Medical
	Center
JN	JEOL News
JOC	J. Org. Chem.
JS	Cornell University, Department of Chemistry
JZ	Dr. Jiri Zamecnik, Defence & Civil Institute of
	Environmental Medicine, Biosciences Div, North
	York, Ontario
K	Chemische Berichte
K1	Eur J Org Chem
KA	J. Chem. Soc., Phys. (A) (1969-1971), Dalton
	Trans. (1972-)
КВ	J. Chem. Soc. (B) (1969-1971), Faraday
	Transactions I & II, (1972-)
KC	J. Chem. Soc. (C) (1969-1971), Perkin
	Transactions I & II, (1972-)
KD	Chemical Communications (J. Chem. Soc.,
	Chemical Communications)



KE	Experientia
KF	Int. J. Mass Spectrom. Ion Phys.
KG	La Gazzetta Chimica Italiana
KH	J. Phys. Chem.
KI	G. S. King, Queen Charlotte's Maternity Hospital,
· -	London
KK	J. Chem. Soc., London
KL	J. Chem. Phys.
KM	J. Bacteriol.
KN	Can. J. Biochem.
KO	Biomedical Mass Spectrometry (Biomedical Mass
NO .	Spec)
KP	Biochem. Biophys. Res. Comm.
KQ	Fortschritte der Chemischen Forschung
KR	Anal. Chim. Acta
KS	Svensk Papperstidning
KT	J. Chem. Eng. Data
KU	Chimia
KV	Prostaglandins
KW	A. Naturforsch. B.
KY	New Zealand J. Sci.
KZ	Z. Anal. Chem.
L	J. Assoc. Offic. Anal. Chem.
L2	P. A. Leclercq, Some Applications of Mass
	Spectrometry in Biochemistry, The Netherlands, 1975
L3	Ingo Luderwald, Abbaureaktionen Monomerer,
LJ 	Oligomerer und Polymerer Carbonsaureamide im
	Massenspektrometer (Thesis), Marburg/Lahn,
	1972
L4	W. C. M. M. Luijten, Mass Spectrometry of some
L T 	Nitrodiazoles (Thesis), 1981
LA	J. Lieberman, M. Alexander, Cornell University
LOC	Letters in Organic Chemistry
LQ	Dr. J. L. LeQuere, Institut National de la
- 	Recherche Agronomique, Dijon, France
LS	Robert E. Carter, Chemical Center, Lund, Sweden
LU	J. Hogg, Lucta SA Fabrica de Esencias y Productos
	Aromaticos, 1983
M	Mass Spectros. (M.S. Soc. of Japan)
MA	J. L. Aubagnac, Universite des Sciences et
FIG	Techniques du Languedoc, 34060 Montpellier
	Cedes, France
MB	G. Raspe, Ed. Advances in the Biosciences, Vol. 2,
טויו	Pergamon Press Vieweg
MC	MFG Chem. Assoc. (see TR)
MCS	ACS Med. Chem. Lett.
LIICO	ACS MEU. CHEHI. LELL.





ME	Mellor's Comprehensive Treatise on Inorganic and Physical Chemistry
MF	Cornell University, 1978
MG	J. K. Grant, Ed. Memoirs of the Society for
	Endocrinology, No. 16, Cambridge University
	Press, London
MI	K. Biemann, MIT, Cambridge, MA
MK	C. R. Acad. Sci. Ser. D
ML	Lipids
MM	Charles Merritt, Jr. and Charles N. McEwen, Eds.
	Mass Spectrometry, Part B, Practical Spectroscopy
	Series, Vol. 3, Marcel Dekker, New York, 1980
MO	O. A. Mamer, Montreal Childrens Hosp. (see OM)
MP	E. Kendrick, Ed. Advances in Mass Spectrometry, Vol. 4, 1968
MQ	A. Quayle, ed. Advances in Mass Spectrometry,
	Vol. 5, The Institute of Petroleum, London, 1970
MR	A. R. West, Ed. Advances in Mass Spectrometry,
	Vol. 6, Applied Science Publishers LTD, Barking,
	Essex, England, 1974
MS	K. Ogata and T. Hayakawa, Eds. Recent
	Developments in Mass Spectroscopy, University
MC1	Park Press, Baltimore, USA, 1970
MSJ MT	Mass Spectrometry Society Japan Advances in Mass Spectrometry, Vol. 3, The
1411	Institute of Petroleum, London
MU	Robert C. Murphy, University of Colorado Health
	Sciences Ctr., School of Medicine, Dept. of
	Pharmacology, Denver, CO 80262
MV	M. V. Buchanan, Oak Ridge National Laboratory,
	Oak Ridge, TN
MX	J. Fernando Jaureguy-Calzada legaria #608 Mexio
	D.F.11500-Mexico
MY	Laurence Dusold, DHEW, PHS, FDA, Washington,
	D.C. 20204 FDA Mycotoxin Collection, obtained
	1981
N	Chemica Scripta (Arkiv fur Kemi)
N2	R. Neeter, Electron Impact Induced
	Decompositions of Some Alkylpyridines, Pyridine
	Carboxylic Acids and Esters, Rotterdam, the
	Netherlands, 1973
N3	Ritsuo Nishida, Cockroach Pheromones, 1977
N4	N. M. M. Nibbering, Mass Spectrometry of Some
	Aralkyl Compounds with a Functional Group in the Side Chain, 1968



N5	N. Nicolaides, Dermatology, University of Southern
	California School of Medicine, 2025 Zonal Ave.,
	Los Angeles, CA 90033, 1980
NA	Nature
NB	K. Biemann, MIT, Cambridge, Mass.
NI	Nicolet Instruments, R. B. Cody
NO	J. L. Laseter and R. Kloepfer, Univ. of New Orleans
	(NO-59)
NP	commonly shared spectrum with NIST. Isotope
	corrected
NS	National Bureau of Standards
NW	Bruce Wilkes, Union Carbide Corp.
0	J Mass Spectrometry
0	Organic Mass Spectrometry (Org. Mass. Spec.)
01	J. Org. Chem USSR
02	J Mass Spectrometry
OCF	Organic Chemistry Frontiers (RSC)
OD	G. Odham, L. Larsson, PA. Mardh, Gas
	Chromatography-Mass Spectrometry: Applications
	in Microbiology, Plenum Press, New York, 1984
ОН	Mass Spectra of Oxygen Heterocycles, University
	of Manchester
ОМ	O. A. Mamer, MS Unit, McGill University, 1130
	Pine Ave. W., Montreal, Canada H3A 1A3,
	Metabolic Library collection
ON	Old NIST spectrum
OR	W. T. Rainey, Oak Ridge National Laboratory
OS	Organic Mass Spectrometry, Indexing Reference
	Forms
Р	Phytochemistry
PA	Phytochemical Analysis (Wiley journal)
PC	Department of Pathology, College of Physicians
	and Surgeons of Columbia University
PG	P. Groll, ERC Project 64b, Karlsruhe
PJ	Pakistan Journal of Scientific and Industrial
	Research
PL	Pierre Longevialle, Centre National de la
	Recherche Scientifique Institut de Chimie des
	Substances Naturelles, Paris, France, added
	March, 1982
PM	Pharmaceutical Mass Spectra, CRE Aldermaston,
	England
PO	Cong Pu-Zhu, Mass Spectrometry of Tropine Ester
	Alkaloids, Acta Chimica Sinica 39(1), Feb. 1981
PR	W. Noel Einolf, Philip Morris Research Center, PO
	Box 26583, Richmond, VA 23261
PS	Pakistani Collection



PU	Cong Pu-Zhu, Study on the Mass Spectrometry of
	Cephalotaxine Alkaloids, Inst. of Materia Medica,
	Chinese Academy of Medical Sciences, Beijing,
	Later published in Acta Chimica Sinica, added Feb,
	1982
Q	Bull. Envir. Contamin. Toxicol.
QA	Chinese Chemical Society, J.
QB	Bulletin of the Korean Chemical Society
QC	Tetrahedron-Asymmetry
QD	Chemical research in Chinese Universities
QE	Chemistry-A European Journal
QF	Russian Chemical Bulletin
R	Europ. J. Biochem.
R2	Dr. W. T. Rainey, Oak Ridge National Laboratory,
	obtained 1981
R3	Thomas N. Riley, University of Mississippi, Sch. of
	Pharm., University, Miss 38677
R4	Riber, Nermag, Santa Clara, CA and the Dow
	Chemical Company
RA	M. W. Couch and C. M. Williamas, Coll. of
	Medicine, Univ. of Florida, Gainesville, FL
RB	Haddon, W., Jarboe, C. H.: Purdue University or
	Riber Data Systems
RC	K. Biemann, Proceedings, Robert A. Welch
	Foundation, 11/63 pp. 199-232
RCM	Rapid Commun. Mass Spectrom.
RD	Nature, 228, 923 (1970)
RE	Brohult and et al., Mass Spectrometric Studies of
	Hop Bitter Substances, Eur. Brewery Convention,
	1960, pp. 121-127
RF	Anal. Biochem 44, 473
RG	F. W. McLafferty, Interpretation of MS
RH	V. Hanus, Heyrovsky Inst., Prague,
	Czechoslovakia
RI	J. Am. Chem. Soc. 95, 1433 (1973)
RJ	G. L. Cook and G. U. Dineen, Mass spectra of
	Organic Sulfur Compoundssss, U.S. Department of
	the Interior, Bureau of Mines, RI 6698
RK	D. G. I. Kingston, Virginia Polytechnic
RL	Amer. Labor. 3(2), 27 (1971)
RM	B. J. Millard, Advances in Drug Research, Ch. 6,
	Vol. 6, Harper and Simmonds, Eds. 1971
RN	AEI 9th Users Conference, January 1973,
	Manchester, UK.
RO	C. Djerassi, H. Budzikiewicz and J. M. Wilson,
	Proceedings First Int. Congress Hormonal
	Steroids, Vol. 2, Academic Press, NY, 1965



RP	A. Frigerio, Ed. Proc. Int. Symp. Gas Chromatography/Mass Spectrometry, Tamburini Editore, Milano, 1972
RQ	F. E. Saalfeld and M. V. McDowell, Naval Res. Laboratory, Washington, D.C. 20390, NBL Report 6639
RR	N. M. M. Nibbering, Mass Spectrometry of Some Aralkyl Compounds with a Functional Group in the Side Chain (Thesis), University of Amsterdam, 1968
RS	J. N. Anderson and R. O. Martin
RSA	RSC Adv.
RT	S. Facchetti, A. Copet and W. Beyrich, EUR 2713.e, 1966
RU	A. L. Jennings, Jr. A Mass Spectroscopic Study of Selected Heterocycles (M.A. Thesis), University of Texas, Austin, 1963
RV	J. L. Cotter and R. A. Dinehart, Royal Aircraft Establishment, TR 66254
RW	R. H. Wiley, unpublished Archives Spectrum
RX	H. W. Brown, Hewlett-Packard
RY	Beckey and et al., Advances in Experimental Techniques, Applications, and Theory of Field Ionization Mass Spectrometry
RZ	K. Biemann, Detection and Identification of Biologically Significant Compounds by Mass Spectrometry
S	Acta Chem. Scand.
S2	W. Sonneveld, Mass Spectrometry of Fatty Acid Methyl Esters, Delft, the Netherlands, 1967
S3	Robert Smakman, Mass Spectrometry of Some Saturated Heterocycles, Amsterdam, the Netherlands, 1970
S4	J. Seibl, Swiss Federal Techn. Inst., Zurich
SA	Y. D. Cho and R. O. Martin, University of Saskatchewan, Canada
SB	Acta Chem. Scand. Ser. B, Denmark
SC	Commercial Solvent Corporation, Terre Haute, Indiana
SCS	Journal of Saudi Chemical Society
SD	Stanford magnetic tape collection, D. Smith, obtained 1981
SE	Ng Dinh-Nguyen, Ragnar Ryhage, Stina Stallberg- Stenhagen and Einar Stenhagen, Information regarding the fragmentation of long chain compounds obtained from the mass spectra of heavy isotope-labelled molecules



SEP	J. Sep. Sci.
SF	K. Lindstrom, Swedish Forest Products Research
	Laboratory, Stockholm, Sweden
SFA	Journal of the Science of Food and Agriculture
SG	Stanley P. Griff, Dart and Kraft, Inc.
SH	C. Shackelton, UC-Berkeley
SI	Acta Chimica Sinica
SJ	Scientific Instruments Service - calibration
3)	compounds
SK	Synthetic Communications
SL	Adv. Org. Chem. Vol. 3, 1963
SM	S. Abrahamsson, Goteborg University, Sweden
SO SO	
	Synthesis
SP	Spectroscopy: An International Journal
SRH	Steve R. Heller
SS	Atlas of Mass Spectra, Novosibirsk, USSR
ST	Swedish Tobacco Co., Stockholm, Sweden
SW	C. C. Sweeley, Selected C-19 and C-20 Steroids,
	Michigan State University
SWG	SWGDRUG Mass Spectral Library
T	A. Tatematsu and T. Tsuchiya, Structure Indexed
	Literature of Organic Mass Spectra, Academic
	Press of Japan, Tokyo, 1966-8
T2	Lucia Tyler, PhD Thesis, Professor T. Acree
	(Supervisor), 1978, Cornell Univ.
Т3	TRC Current Data News, Thermodynamics
	Research Center, Texas Engineering Experiment
	Station, Texas A&M University
TA	A. Tatematsu and T. Tsuchiya, Structure Indexed
	Literature of Organic Mass Spectra, Academic
	Press of Japan, Tokyo, 1966-8
ТВ	Industrie Chimie Belge
TC	Mass Spec. Applications, C.V.C. Products, Inc.
TD	American Doc. Inst. 4817
TE	Thomas Cairns, Dept of Health & Human Services,
	FDA, Office of Regulatory Affairs, LA District Lab,
	Mass Spec Service Center, 1521 West Pico Blvd,
	LA, CA 90015
TG	Angewandte Chemie (Angew. Chem.)
TI	Israel J. Chemistry
TIPS	Russian Academy of Sciences: The Institute of
	Petroleum Sciences
ТЈ	J. Inorg. Nucl. Chem.
TK	Makromol. Chem.
TL	J. Larsen and R. A. Sneen, Purdue Univ.
TM	M. M. Kochar, Auburn University
TN	J. Res. Natl. Bureau Standards



TP	Appl. Spectrosc.
TQ	Die Pharmazie
TR	Thermodynamic Research Center, College Station,
	TX
TS	Indian J. Chem.
TU	HJ. Bultemann and L. Delgmann, Atlas Mess-und
	Analysentechnik GmbH, Bremen
TV	Colloquium Spectroscopicum Internationale
TX	TRC Spectra (Matrix Format) (see TR)
TY	Yakugaku Zasshi (J. Pharm. Soc. Japan)
TZ	Nord. Kemikermode Aarhus
U	Justus Liebigs Annalen der Chemie
U1	European J Org Chem
U2	European J Inorg Chem
UB	USDA, Beltsville, MD, USA
UE	White, Welch and Hertz, (USEPA) Mass Spectra
	and Isotopic Purity of Compounds Proposed for
	Use in the "Master Analytical Scheme for the
	Analysis of Organic Compounds in Water" N.B.S.
	Dept. of Commerce
UJ	Lubo Baczynsky, Physical and Analytical Chemistry
	Research, The UpJohn Co., 1978
UM	Universal Monitor Corp., Pasadena, CA
UN	Unknown Source
UT	Arthur Tucker, Dept of Agriculture and Natural
	Resources, Delaware State College, Dover, DE
UW	C.E.C.A. Hop and D. Snyder, University of
	Wisconsin-Madison, Chemistry Department,
	Madison, WI 53706
UY	UORSY
V	Steroids
V2	B. VandeGraaf, Studies on Overcrowding in
	Organic Molecules, Delft University, the
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Netherlands, 1978
V3	A. Venema, Mass Spectrometry of Aralkyl
	Compounds and 7-Substituted Cycloheptatrienes,
VC	Amsterdam, the Netherlands, 1975
VC	Volatile Compounds in Foods, Central Institute for
VE	Nutrition and Food Research TNO, Netherlands
VF	Complete spectra from JCS Perkins Trans. 1981 -
VV	P. Vata-Finzi, University of Pavia, Bulgaria
VK	M. C. T. N. deBrauw, Volatile Compounds in
	Foods, Central Inst. for Nutrition and Food
	Research - TNO, Utrechtseweg 48, 3704 HE Zeist,
	The Netherlands



W	G. R. Waller, Ed. Biochemical Applications of Mass Spectrometry, Wiley-Interscience, New York, NY, 1972
W2	Johann Winkler, Elektronenstoss-Induzierte Reaktionen Offenkettiger und Monocyclischer Polymethoxyalkane, Hamburg, 1970
WA	Wang Guang-Hui, Zhang Wen-Xin and Chai Wen- Gang, Adv. Mass Spectrom, 8, pp. 1369-74
WB	Qipong Hong, Bangrong Zhau and Shueihai Chen, Study on Mass Spectra of Metal(II,III) N,N-dialkyl- amino-dithioformate, Institute of Petrochemistry and Engineering, Bejing College of Chemical Engineering
WC	Markesy, Wells College
WH	Walter Hyde, Iowa State Univ.
WS	Walter Shackleford, U.S. EPA, Athens, Georgia
WT	Walter Jennings, Takayuki Shibamoto, Qualitative Analysis of Flavor and Fragrance Volatiles by Glass Capillary Gas Chromatography, ACAD Press, New York
WX	Lu & Wang Xieging, Research Inst. for Petroleum Processing, Beijing
X	Q. N. Porter and J. Baldas, Mass Spectrometry of Heterocyclic Compounds, Wiley-Interscience, New York, 1971
X2	Chromatographia
Х3	Chemistry of Natural Compounds
X4	Izvestya Akademii Nauk Rsfsr
XD	D. Cooper, US Drug Enforcement Admin.
XW	CSIRO Mass Spectra of Organic Compounds (1-600), 8 vols., Australia
XX-1	Michigan State Univ., n-hydroxyacetominophene
XX-2	Hewlett Packard, 4,4'-dibromooctafluorobiphenyl
XX-3	Tyler (Thesis), 1978 (see T2)
XX-4	Cornell MS Facility
XX-5	D. Pritchard, Univ. of Alabama
XX-6	JL. Aubagnac, P. Champion, and P. Guenot, Spectrometrie de Masse D'Heterocycles Azotes VII Phenyl-1 Triazole-1,2,3. (Aubagnac - Laboratoire de Synthese et d'etude physico-chimique des heterocycles azotes - Universite des Sciences et Techniques du Languedoc - Place E. Bataillon - 34060 Montpellier Cedex France)
XX0	F. Arcamone, G. Cassinelli, G. Franceschi, S. Penco, C. Pol, S. Redaelli and A. Selva, Structure and Physical Properties of Adriamycin, Springe-Verlag, Berlin, 1972



XX7	JN Ronson, SJRowland, Nature, 561-563
XX8	Jeanne Ayache, profil reactionnel des reactions de
	fragmentatin des ethylene-acetals des cyclanones
	substituees en spectrometrie de masse par impact
	electronique, These, University of Paris, 1978
XX9	Dr. Allenmark, Univ. Hosp., Linkoping, Sweden
XY	Yoshiro Masada, Analysis of Essential Oils by Gas
	Chromatography and Mass Spectrometry
XY0	Polycylic Aromatic Compounds
XY1	Vlada Hanus, The J. Heyrovsky Institute of
	Physical Chemistry and Electrochemistry,
	Czechoslovak Academy of Sciences,
	Czechoslovakia
XY2	Parmar, V. S., University of Delhi, Delhi-110 007
XY3	Gustav Graff, The Hormel Institute, University of
	Minnesota, Austin, Minn., 55912
XY4	Muramatsu, T., University of Minnesota, The
	Hormel Institute, Austin, Minn., 55912
XY5	A. P. Bruins, Intramolecular Functional Group
	Interactions and Ion Molecule Reactions of
	Gaseous Ions from Some Benzylamino and
	Benzyloxy Compounds, Amsterdam, 1976
XY6	Advances in Prostaglandin, Thromboxane, and
	Leukotriene Research, vol. 18, Mass Spectra of
	Prostaglandins and Related Products, New York
	1989
XY7	HP Particle Beam LC/MS Book of Spectra, Dr. Alex
	Apffel, Hewlett-Packard Company, Palo Alto,
\n.(-	California 94304
XY8	Mervyn Lewis, University of Bristol
XY9	Yao-Zu Chen, Department of Chemistry, Lanzhou
<u></u>	University, Lanzhou, PRC
XZ	William T. Miller, Department of Chemistry,
V-74	Cornell University, Ithaca, NY 14850
XZ1	Revue Roumaine de Chimie
XZ2	Bio Organic & Medicinal Letters
XZ3	New Journal of Chemistry
XZ4	Chemistry Letters
XZ5	Chimia
XZ6	CRC Handbook of Mass Spectra of Drugs, 1981
XZ7	Edgewood Arsenal Technical Report EC-TR-76059,
	June, 1976 Samuel Sass, Theodore W. Dolzine,
	and Timothy L. Fisher
XZ8	Edgewood Arsenal Technical Report EC-TR-76111,
	July, 1977 Timothy L. Fisher and Samuel Sass
XZ9	Edwin H. Flynn, Cephalosporins and Penicillins,
	Academic Press, New York, NY, 1972



Υ	Journal of Heterocyclic Chemistry (J. Hetero. Chem.)
YO	Indian Journal of Chemistry - Section A
Y1	Indian Journal of Chemistry - Section B
Y2	Nouveau Journal de Chimie / New Journal of Chemistry
Y3	Bulletin of the Division of Chemical Sciences - USSR / Russian Chemical Bulletin
Y4	Anales de Quimica - Spain
Y5	Journal of the Serbian Chemical Society
YA	Yamagishi, Akiyama & Miyazaki, Application of GC/MS to Bio-Monitoring of Environmental Pollution (JEOL NEWS)
Z	Dr. Uwe Zahorszky, Inst. f. Org. Chemie. Universitat Karlsruhe, D-7500, Karlsruhe, West Germany
ZH	Zhou Yunli and et al., Isolation and Characterization of Maytansine and Maytanprine, Two Anticancer Agents from Maytenus Hookeri Loes, Kexue Tongbao, 25(7), 1980, pp. 612-15



CAS-RN Field

Some mass spectrometry software programs rely on a field labeled "CAS-RN" to link spectral records with corresponding structure record. As many of the compounds found within the Wiley Registry and other libraries do not have an assigned CAS-RN, this engineering decision would result in those spectra not being linked to their unique structure. To solve this problem, Wiley has created unique identifiers for the sole purpose of linking the spectrum and its structure using this field. To differentiate these numbers from actual CAS-RNs, each is either a 9-digit number prefixed by 999 or 998, for Agilent ChemStation/MassHunter and PerkinElmer TurboMass/Waters MassLynx.

Please note that 9-digit IDs prefixed with the numbers 999 or 998 respectively do not in any way represent CAS Registry Numbers, nor are they used for anything other than referring to the structure record in the separate structure database as a workaround to accommodate engineering decisions made by other software publishers.

The IDs used below were created as 9-digit numbers with a leading '999' or '998' to make them distinguishable to real CAS Registry numbers.

9-digit CASRN-like IDs starting with '999' are those for records which don't have a real CASRN (and a structure which need to be pointed to).

9-digit CASRN-like IDs starting with '998' are those which are used to replace 10-digit real CASRNs (don't necessarily point to a structure).

The two following lists are detailing the 'CAS Registry Numbers'-like IDs used in the W23 Collection created to point to the chemical structure records or to replace 10-digit CAS Registry Numbers.

Appended is also a list of the 'real' 10-digit CAS Registry Numbers and the corresponding pseudo CASRNs (as well as the WileyID and the main chemical name) used to replace them in the library.

CASRN ChemStation TurboMass readme.txt



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Data proposals, sample data, or inquiries are best sent to dbinquiry@wiley.com.

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