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LIST OF ABBREVIATIONS AND SYMBOLS

δ	Chemical shift
λ	wavelength
$[\alpha]_D$	Specific rotation
$\varnothing$	diameter
μm	Micrometer
μL	Microlitre
$°C$	Degree celsius
1D	One dimension
2D	Two dimensions
3D	Three dimensions
^1H NMR	Proton nuclear magnetic resonance
^{13}C NMR	Carbon nuclear magnetic resonance
ANOVA	Analysis of variance
Aq.	Aqueous
br.s.	Broad singlet
calcd	Calculated
cm	Centimeter
cm^2	Square centimeter
CC	Column chromatography
$CDCl_3$	Deuterated chloroform

LIST OF ABBREVIATIONS AND SYMBOLS (continued)
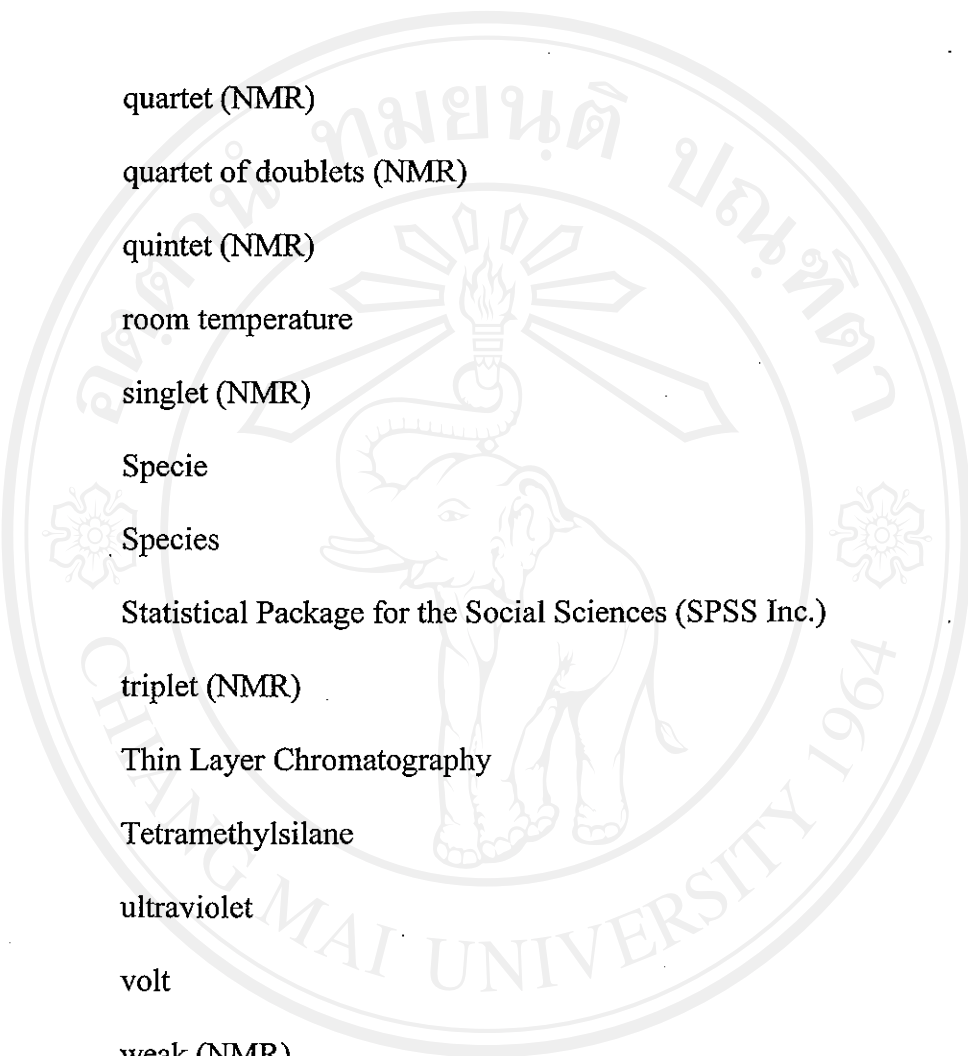
CD_3OD	Deuterated methanol
$CHCl_3$	Chloroform
$CeCl_3.H_2O$	Cerium chloride
COSY	correlation spectroscopy
d	doublet
dd	doublet of doublets (NMR)
dq	doublet of quartets (NMR)
dt	doublet of triplets (NMR)
ddd	doublet of doublet of doublets (NMR)
ddq	doublet of doublet of quartets (NMR)
dddd	doublet of doublet of doublet of doublets (NMR)
DCM/CH_2Cl_2	Dichloromethane
DEPT	Distortionless Enhanced Polarization Transfer
DMAP	4-Dimethylaminopyridine
etc.	et cetera.
eV	electron volt
Et_3N	Trimethylamine
EIMS	Electron impact mass spectrum
EI +ve	electron impact (positive ion mode)
ESIMS	electrospray ionization mass spectrum
ESI +ve	electrospray ionization (positive ion mode)

LIST OF ABBREVIATIONS AND SYMBOLS (continued)

Fig.	figure
g	gram
h/hrs	hours
H_2O_2	Hydrogen peroxide
HCl	Hydrochloric acid
HMBC	Heteronuclear Multiple Bond Correlation
HPTLC	High Performance Thin Layer Chromatography
HRMS	High Resolution Mass Spectroscopy
HSQC	Heteronuclear Single Quantum Correlation
Hz	Hertz
i.e.	That is
J	coupling constant (NMR)
kg	kilogram
K_2CO_3	Potassium carbonate
KI	Potassium iodide
lit.	literature
LC_{50}	lethal concentration for 50% mortality of the test organism
LD_{50}	lethal dose for 50% mortality of the test organism
LSD	Least Significant Difference
m	multiplet (NMR)
m^2	Square meters

LIST OF ABBREVIATIONS AND SYMBOLS (continued)

m/z	mass number divided by its charge
mg	milligram
mm	millimetre
mult	multiplicity (NMR)
mL	millilitre
M^+	molecular ion
Me	methyl
MeOH	Methanol
MHz	megahertz
MTPACl	α-Methoxy-α-(trifluoromethyl) phenylacetyl chloride
nm	nanometre
$NaBH_4$	Sodium borohydride
NH_3	Ammonia
NMR	Nuclear Magnetic Resonance
NOESY	Nuclear overhauser effect spectroscopy
OH	Hydroxy
OMe	Methoxy
ppm	parts per million
Ph	Phenyl
PEG	Polyethyleneglycol
PTLC	Preparative Thin Layer Chromatography

LIST OF ABBREVIATIONS AND SYMBOLS (continued)

q   quartet (NMR)

qd   quartet of doublets (NMR)

quin   quintet (NMR)

RT   room temperature

s   singlet (NMR)

Sp.   Specie

Spp.   Species

SPSS   Statistical Package for the Social Sciences (SPSS Inc.)

t   triplet (NMR)

TLC   Thin Layer Chromatography

TMS   Tetramethylsilane

UV   ultraviolet

V   volt

(w)   weak (NMR)