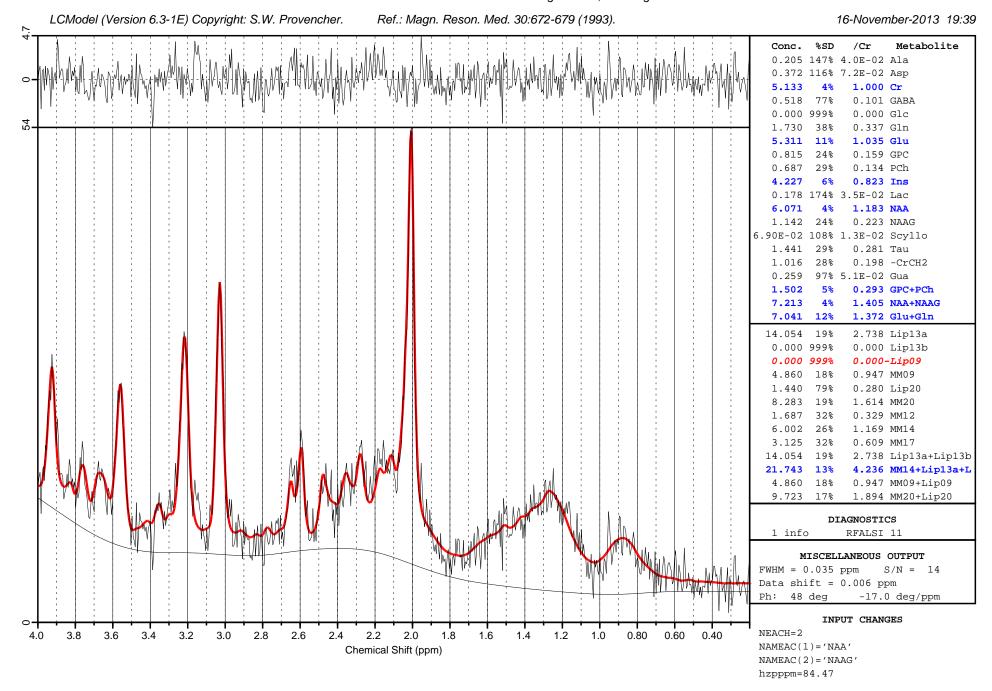
PLOT 1: Page 1 of test run output



PLOT 2: Page 2 of test run output

Data of: Biomedizinische NMR Forschungs GmbH, Goettingen

LCModel (Version 6.3-1E) Copyright: S.W. Provencher.

Ref.: Magn. Reson. Med. 30:672-679 (1993).

Conc.	%SD	/Cr	Metabolite	NAMEAC(2)='NAAG'
0.205	147%	4.0E-02	Ala	hzpppm=84.47
0.372	116%	7.2E-02	Asp	ratipm = 2.0
5.133	4%	1.000	Cr	nunfil=2048 deltat=.0005
0.518	77%	0.101	GABA	FILPS='ps/fig_mrml.ps'
0.000	999%	0.000	Glc	FILRAW='//doc/manual/figures/raw/test.RAW
1.730	38%	0.337		,
5.311				FILBAS='//doc/manual/figures/test.basis'
0.815	24%	0.159		
0.687		0.134		
4.227	6%	0.823		
		3.5E-02		
6.071	4%	1.183		
1.142		0.223		
6.90E-02			_	
1.441	29%	0.281		
1.016	28%		-CrCH2	
0.259		5.1E-02		
1.502	5%		GPC+PCh	
7.213	4%		NAA+NAAG	
7.041	12%	1.372	Glu+Gln	
14.054	19%	2.738	Lip13a	
0.000	999%	0.000	Lip13b	
0.000	999%	0.000-	-Lip09	
4.860	18%	0.947	MM09	
1.440	79%	0.280	Lip20	
8.283	19%	1.614	MM20	
1.687	32%	0.329	MM12	
6.002	26%	1.169	MM14	
3.125	32%	0.609		
14.054			Lip13a+Lip13b	
21.743			MM14+Lip13a+Lip13b+MM12	
4.860	18%		MM09+Lip09	
9.723	17%	1.894	MM20+Lip20	
		דת	AGNOSTICS	
1 info	1	RFALSI		
		ICI MUDI		
		MISCELI	ANEOUS OUTPUT	
FWHM = 0	0.035	ppm S	S/N = 14	
Data shi	ift =	0.006 pg	pm	
Ph: 48	deg	-17.0) deg/ppm	
		73.00	III. GUANGEG	
NEAGII-0		INP	UT CHANGES	
NEACH=2				
NAMEAC(1)='NAA'				

16-November-2013 19:39

PLOT 3: Page 3 of test run output

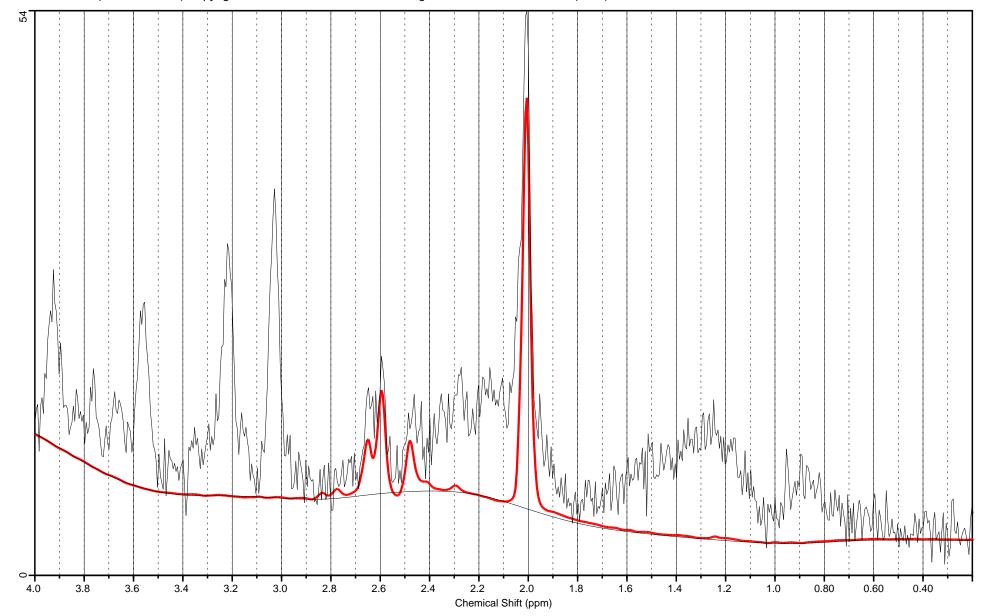
NAA Conc. = 6.07E+00

Data of: Biomedizinische NMR Forschungs GmbH, Goettingen

LCModel (Version 6.3-1E) Copyright: S.W. Provencher.

Ref.: Magn. Reson. Med. 30:672-679 (1993).

16-November-2013 19:39



PLOT 4: Page 4 of test run output

NAAG Conc. = 1.14E+00

Data of: Biomedizinische NMR Forschungs GmbH, Goettingen

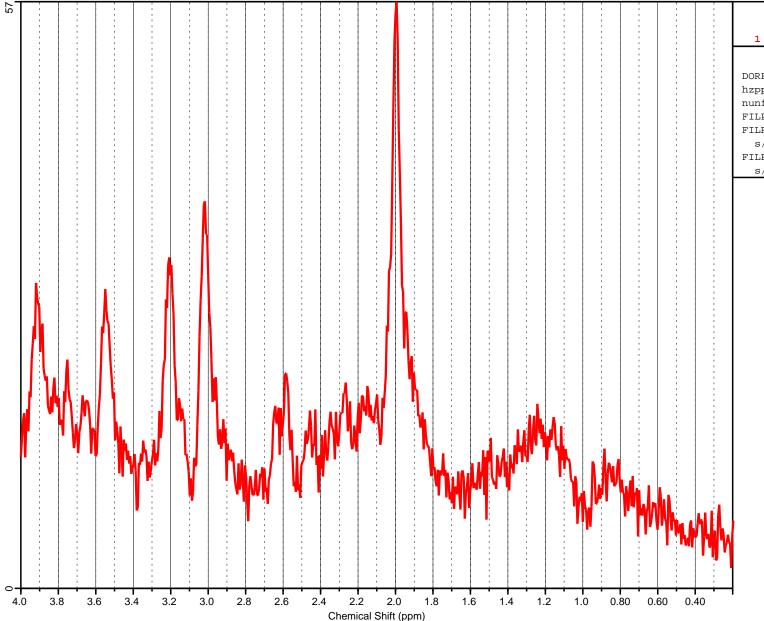
LCModel (Version 6.3-1E) Copyright: S.W. Provencher. Ref.: Magn. Reson. Med. 30:672-679 (1993). 16-November-2013 19:39 o 4.0 2.4 1.0 0.80 3.8 3.6 3.4 3.2 3.0 2.8 2.6 2.2 2.0 1.8 1.6 1.4 1.2 0.60 0.40 Chemical Shift (ppm)

PLOT 5: Abort with FATAL diagnostic and Absolute-Value Plot due to unreasonable input.

LCModel (Version 6.3-1E) Copyright: S.W. Provencher.

Ref.: Magn. Reson. Med. 30:672-679 (1993).

16-November-2013 19:39



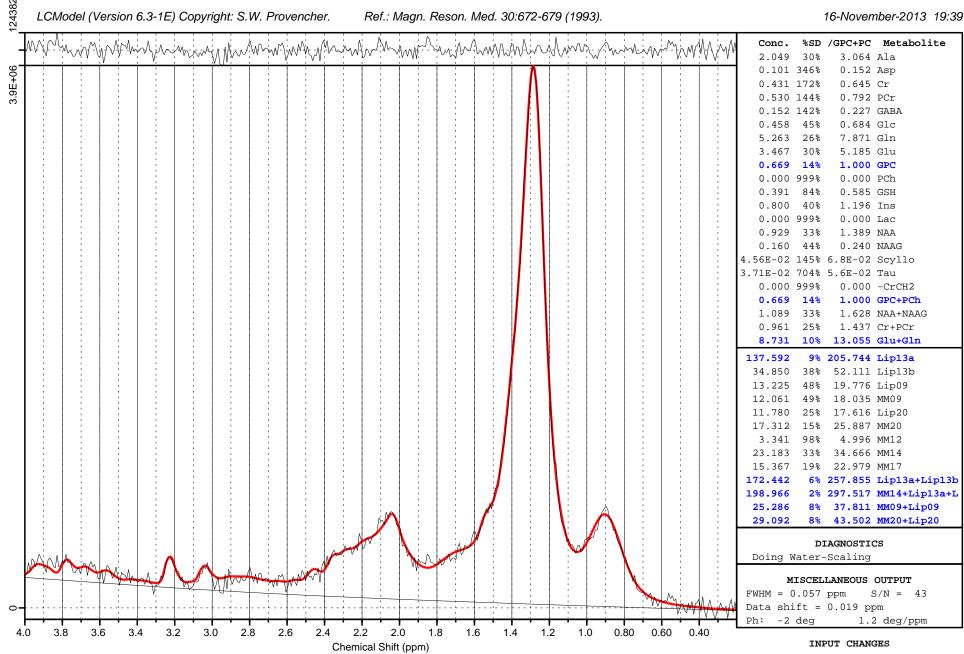
DIAGNOSTICS 1 FATAL STARTV 1

INPUT CHANGES

DOREFS(2)=.false.
hzpppm=84.47
nunfil=2048 deltat=.0005
FILPS='ps/fig_fatal.ps'
FILRAW='../../doc/manual/figure
s/raw/test.RAW'
FILBAS='../../doc/manual/figure
s/test.basis'

PLOT 6: Use SPTYPE='tumor' when NAA could be weaker than lipid or macromolecule signals.

Data of: Neuroradiology Department, National Neuroscience Institute, Singapore

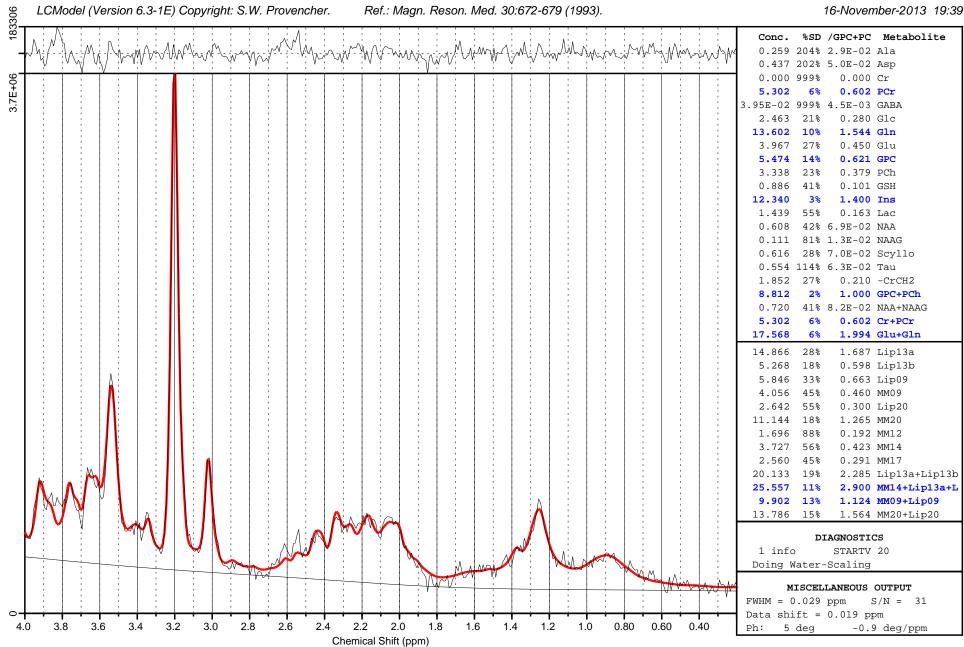


SPTYPE='tumor'

hzpppm=63.929 ipage2=0

PLOT 7: Use SPTYPE='tumor' whenever the NAA signal may be weak (not just for strong lipid signals).

Data of: Department of Radiology, Childrens Hospital of Los Angeles

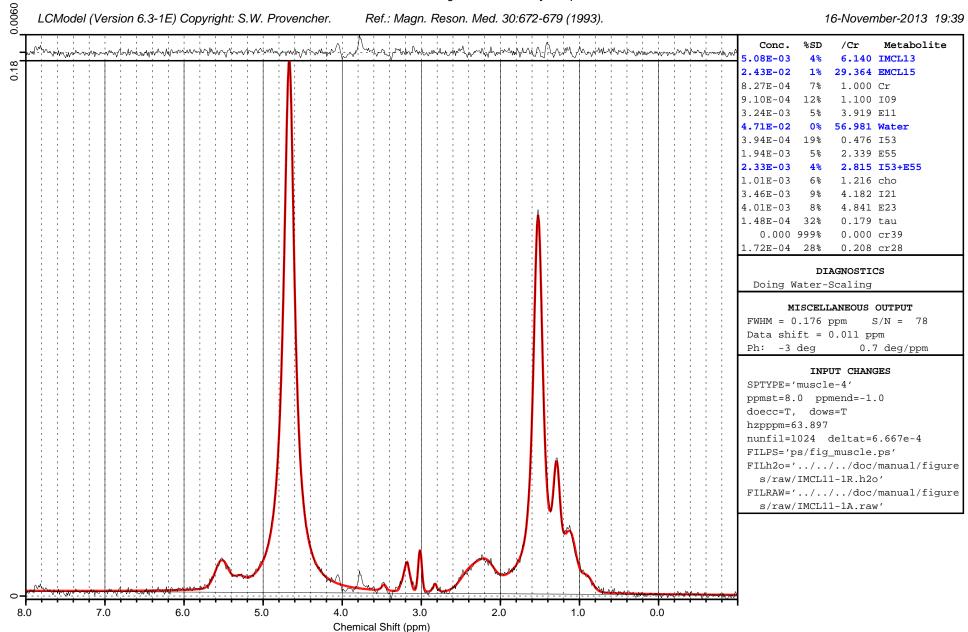


INPUT CHANGES

PLOT 8: Muscle spectrum using SPTYPE='muscle-5'.

"Conc." values in the top table are ratios of the metabolite resonance area to the unsuppressed water resonance area.

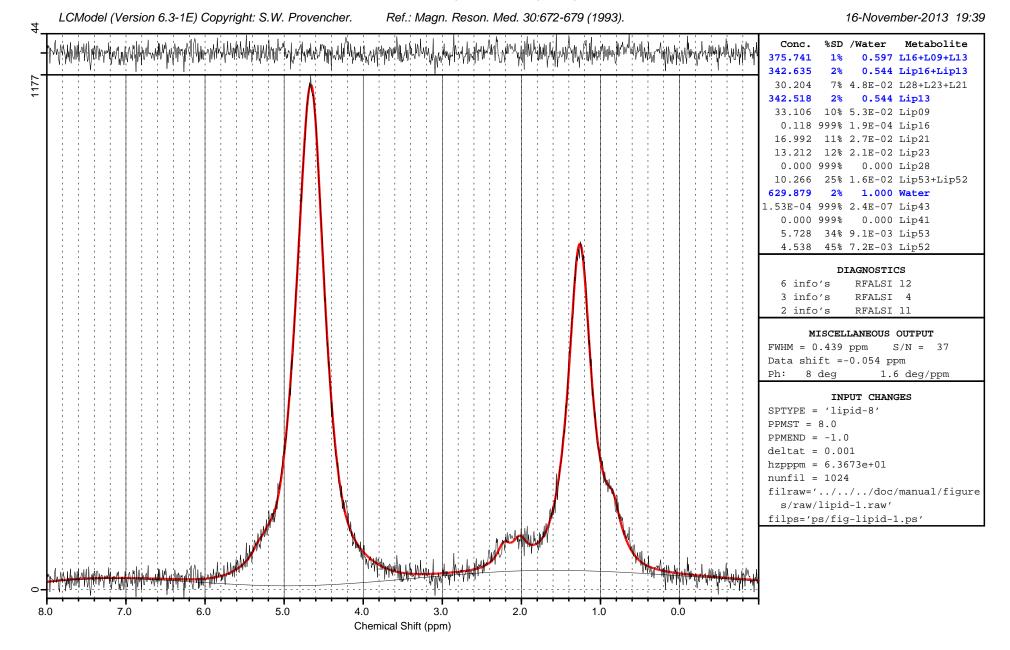
Data of: Sahlgrenska University Hospital



PLOT 9: Bone marrow spectrum (with no water suppression) using SPTYPE='lipid-8': For water & lipids only (no choline).

"/Water" values in the top table are ratios of the metabolite resonance area to the water resonance area.

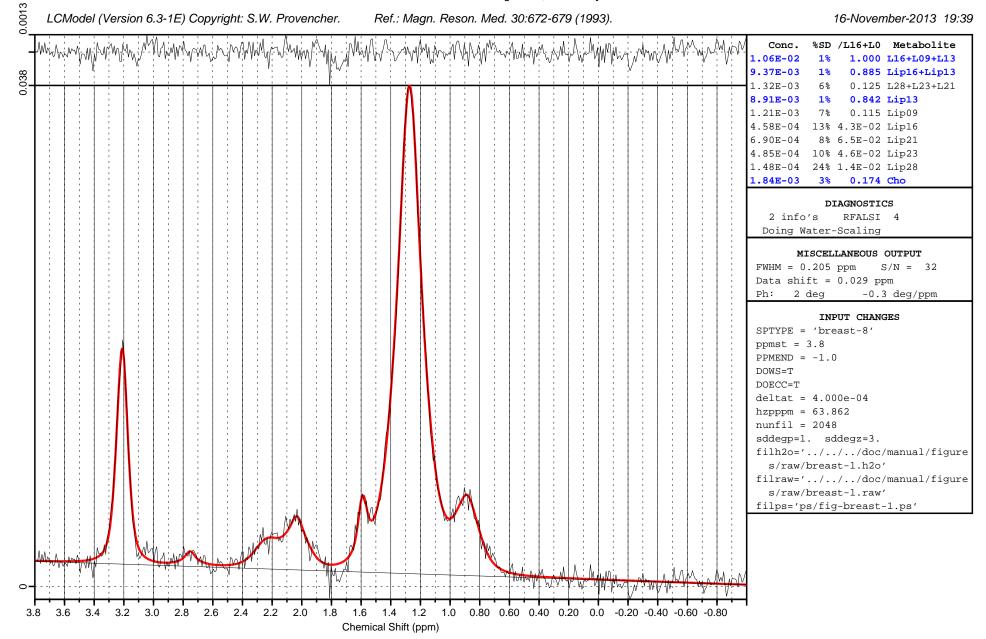
Data of: Department of Diagnostic Radiology, Singapore General Hospital



PLOT 10: Breast spectrum using SPTYPE='breast-8' (for water & lipids plus possibly choline).

"Conc." values in the top table are ratios of the metabolite resonance area to the unsuppressed water resonance area.

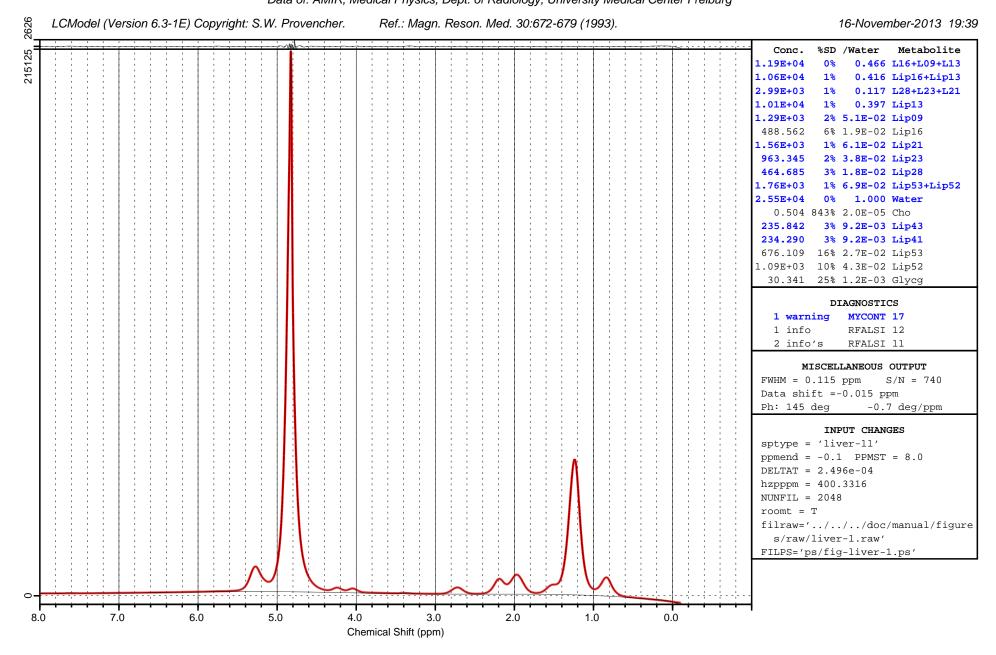
Data of: Centre of MR Investigations, University of Hull



PLOT 11: Liver spectrum using SPTYPE='liver-11'

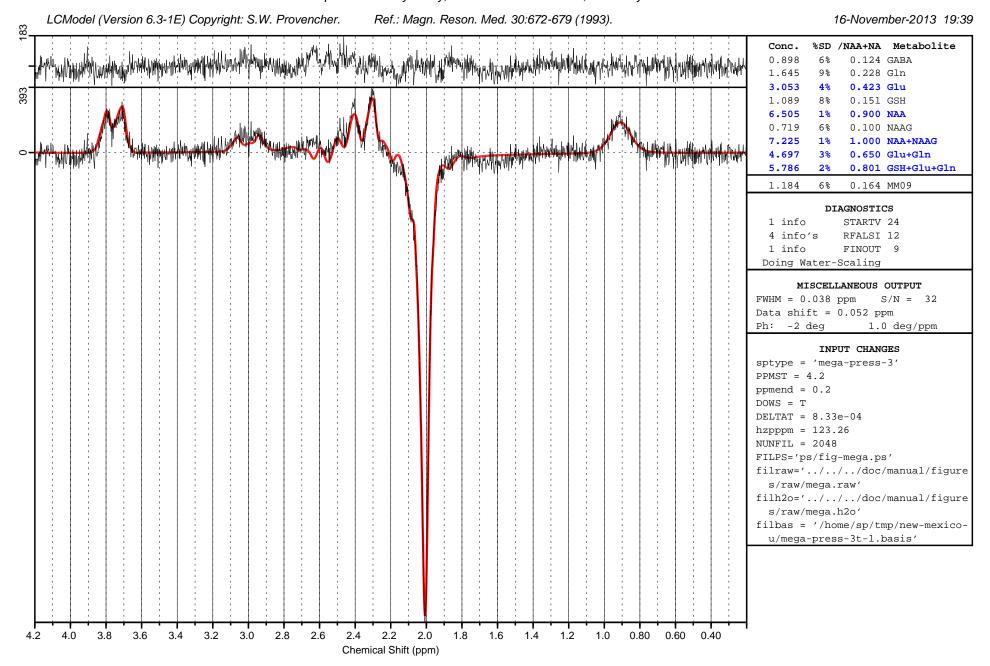
"/Water" values in the top table are ratios of the metabolite resonance area to the water resonance area.

Data of: AMIR, Medical Physics, Dept. of Radiology, University Medical Center Freiburg



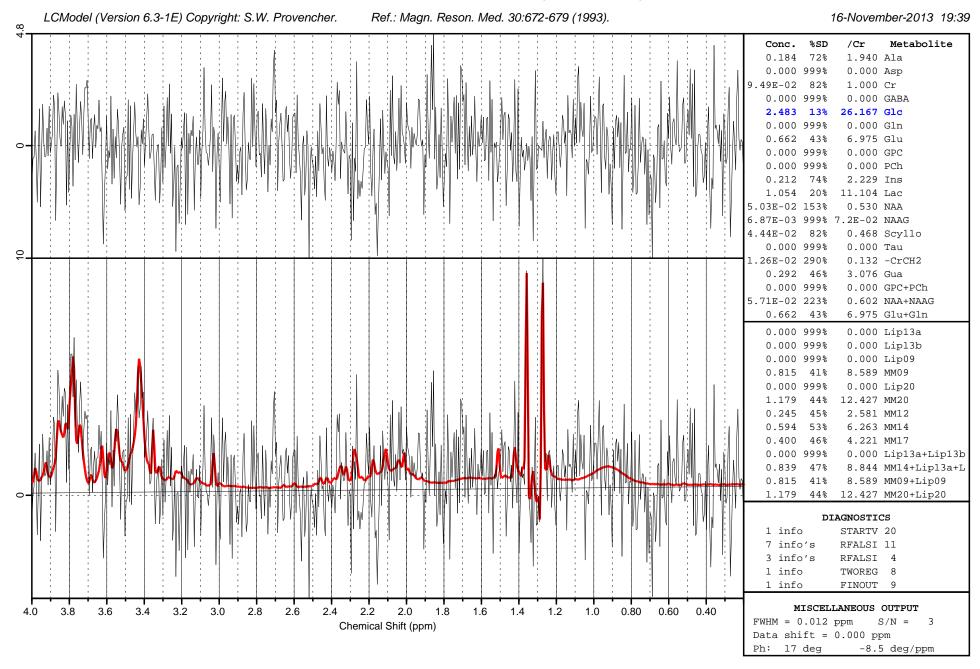
PLOT 12: Use SPTYPE='mega-press-3' for estimating GABA with MEGA-PRESS

Data of: Department of Psychiatry, MIND Research Network, University of New Mexico

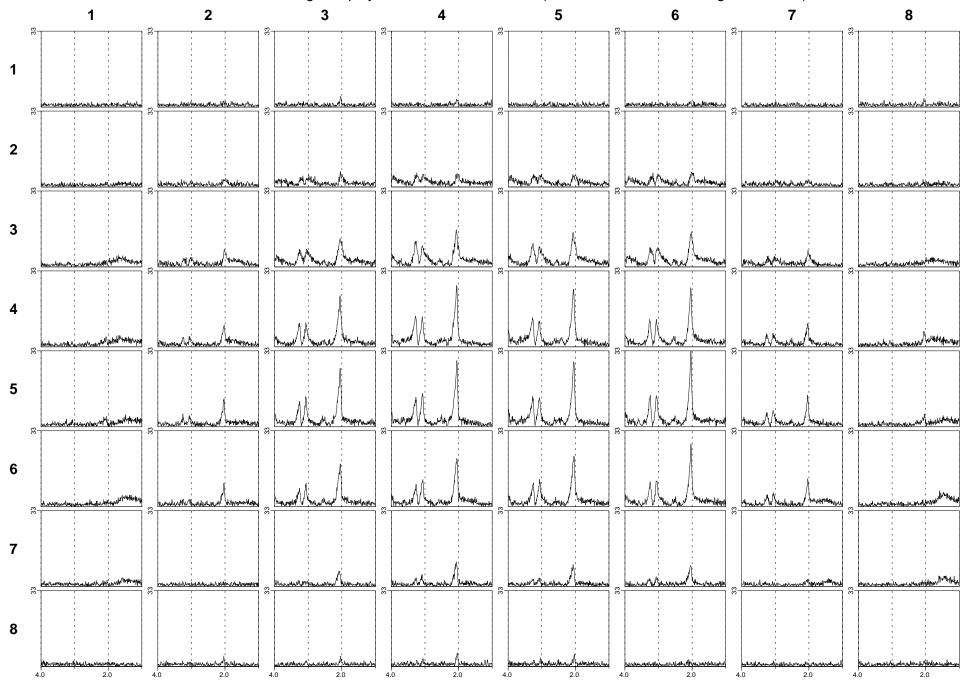


PLOT 13: Use SPTYPE='csf' with mainly cerebrospinal fluid, when the usual landmarks (NAA, cholines & Cr) are weaker than Lac & Glc

Data of: Biomedizinische NMR Forschungs GmbH, Goettingen

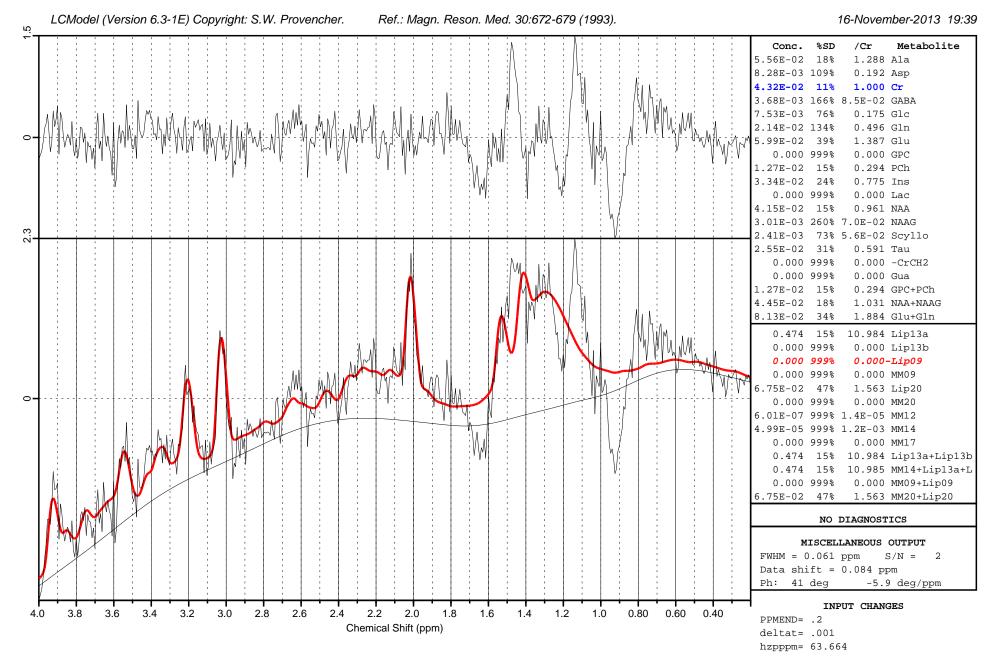


PLOT 14: LCMgui display of a full slice of CSI data (from the Montreal Neurological Institute)



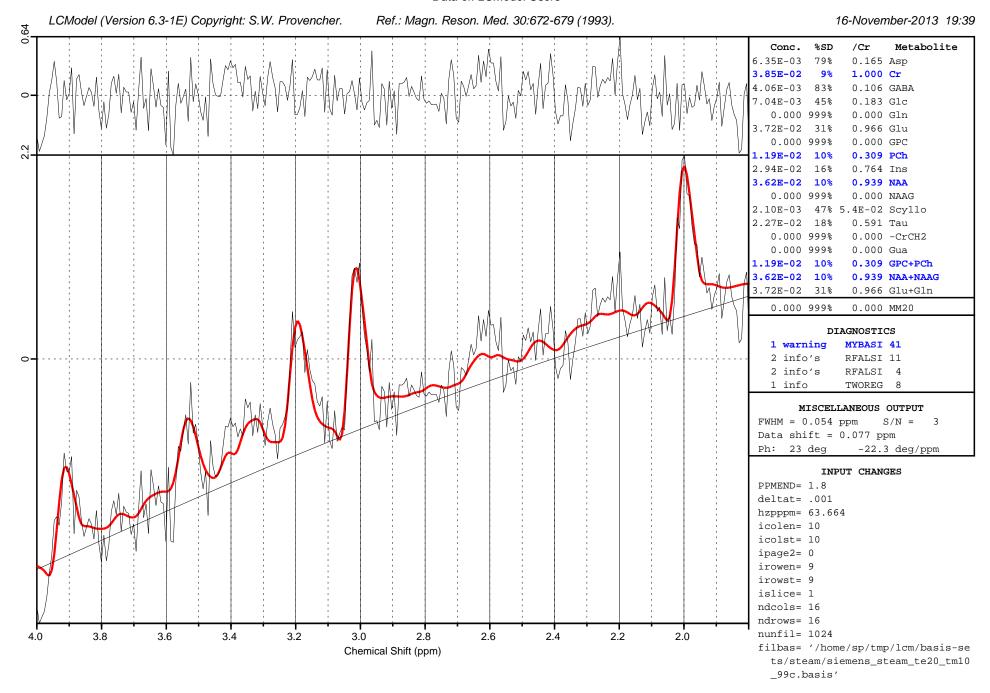
Row#9 Col#10 PLOT 15: Strong artifact signals from outside the voxel ruin the quantification (at least below 1.8 ppm). These artifacts must be avoided by using PPMEND=1.8 (in PLOT 16).

Data of: LCModel Users

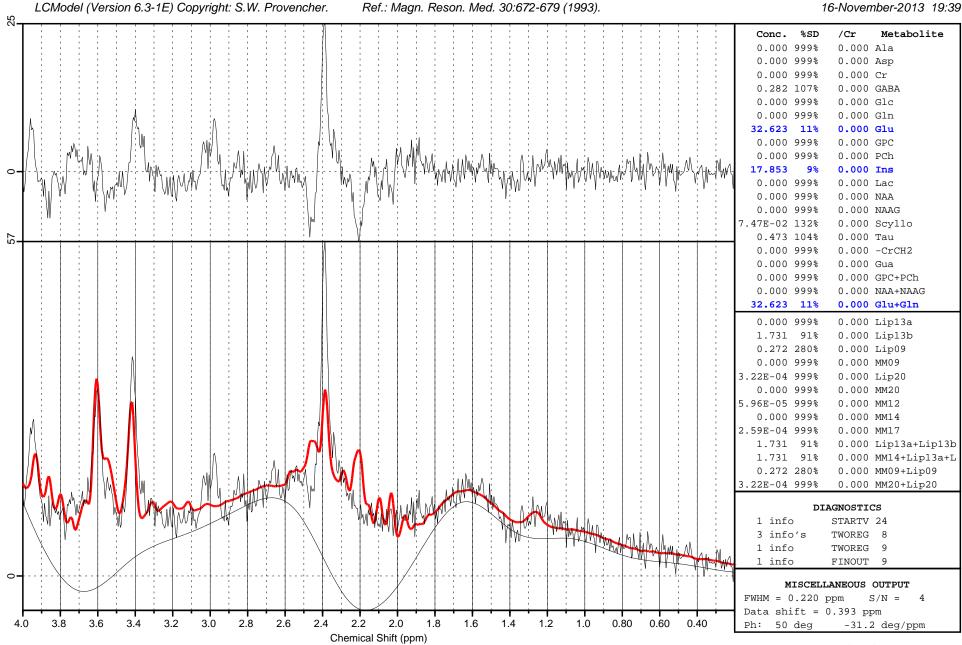


Row#9 Col#10 PLOT 16: Same data as in PLOT 15, but with PPMEND=1.8 to avoid the strong artifacts.

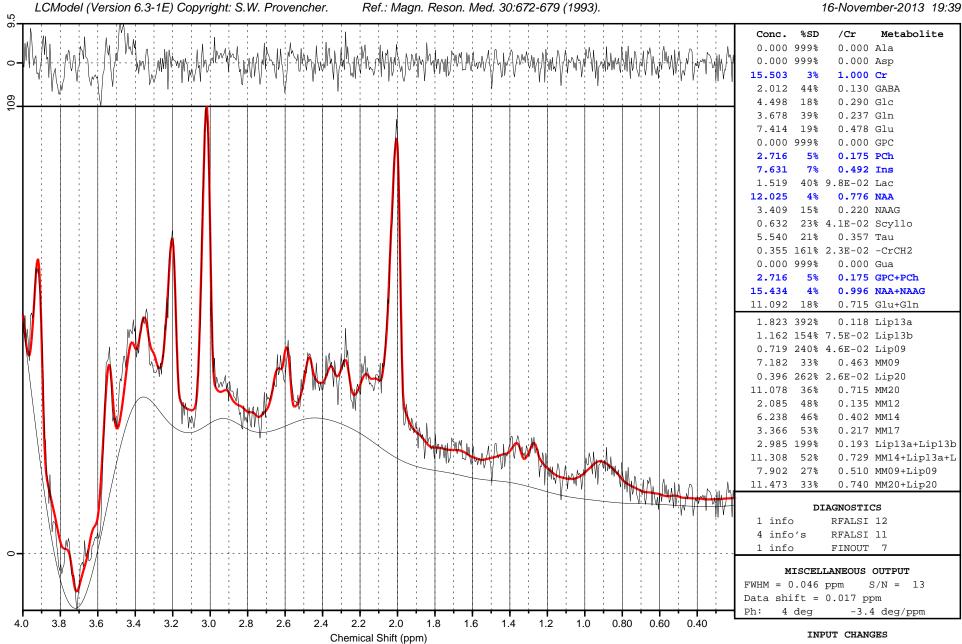
Data of: LCModel Users



PLOT 17: Total failure (due to grossly incorrect referencing constraint with PPMSHF).



PLOT 18: Reject spectra with strongly bent baselines.



hzpppm=84.47 IPAGE2=0

nunfil=2048 deltat=.0005

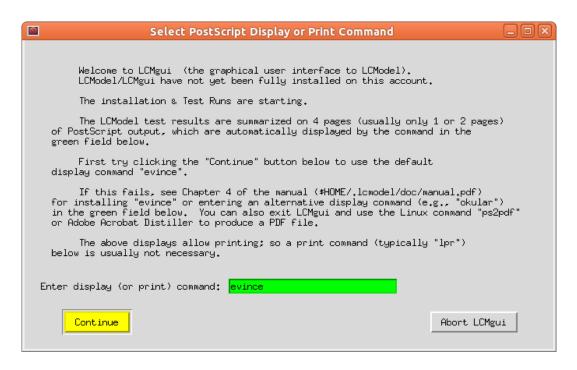


Figure 4.1: Here you enter your command for displaying or printing PostScript files.

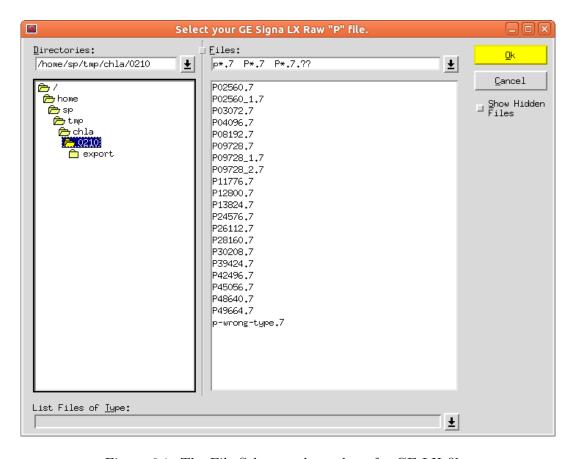


Figure 6.1: The File Selector, shown here for GE LX files

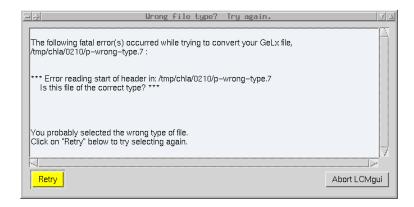


Figure 6.2: You selected a file of the wrong type in the File Selector



Figure 6.3: Note that GE Signa 5.x and LX have distinct buttons.

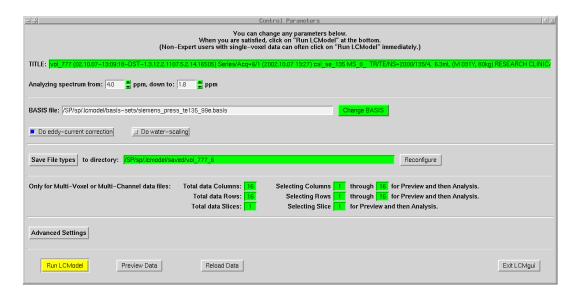


Figure 6.4: The Control Parameters Window

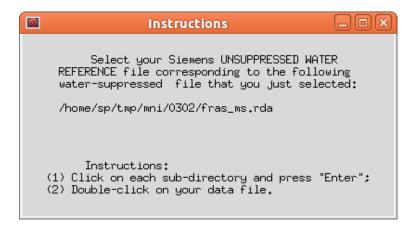


Figure 6.5: The instructions-part of the File Selector for the unsuppressed water reference.



Figure 6.6: Here you decide how to save the settings from this session.

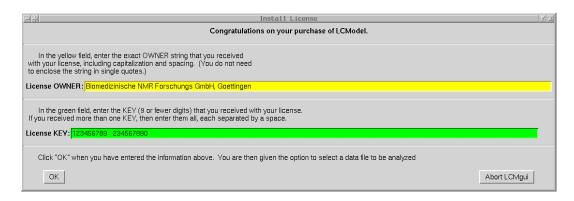


Figure 7.1: The Install License Window (with Sun, SGI or DEC/Compaq)

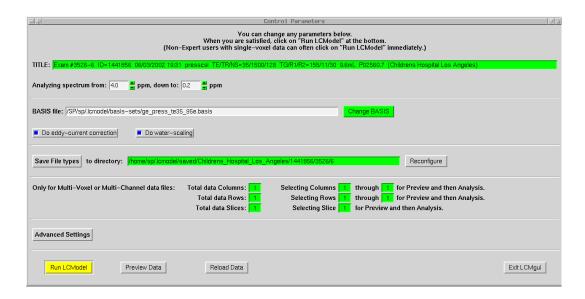


Figure 7.2: The Control Parameters Window

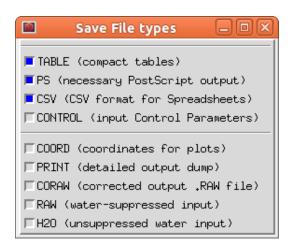


Figure 7.3: You get this menu when you click the "Save File Types" button in Fig. 7.2.

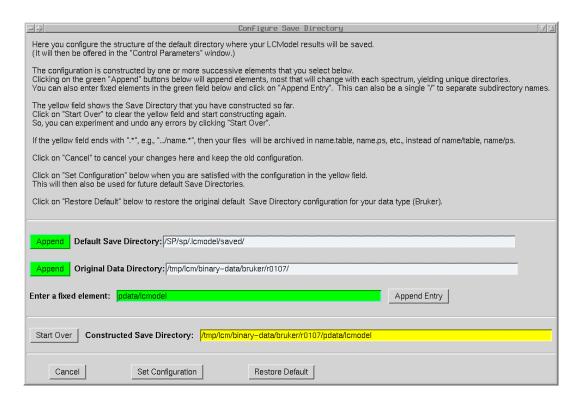


Figure 7.4: The window for permanently reconfiguring the structure of (Bruker) Archive Directories.

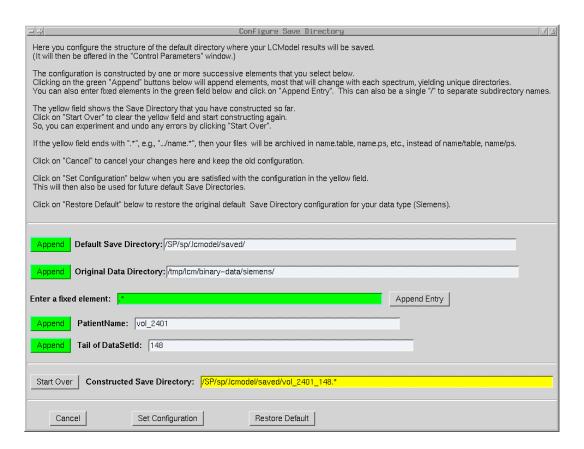


Figure 7.5: The window for permanently reconfiguring the structure of (Siemens) Archive Directories.

-4	Advanced Settings $\forall \Delta$						
View/Edit Control Parameters							
Change Control-Defaults file ()							
Change Preprocessor ()							
Chang	e Execution Script (standard)						
Chang	e LCMgui Settings						

Figure 7.6: You get this menu when you click the "Advanced Settings" button in Fig. 7.2.

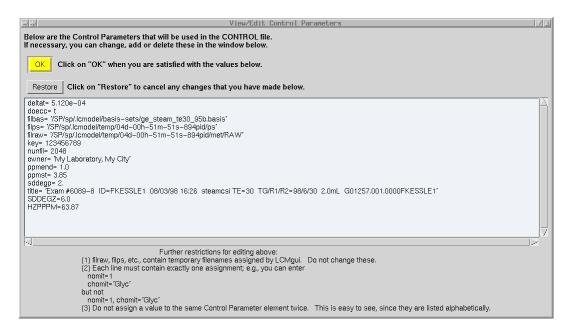


Figure 7.7: You can view, edit, delete or add all Control Parameters here.

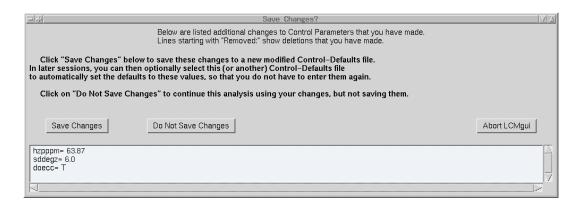


Figure 7.8: You can save all the Control Parameters, including your modifications, for optional use as starting defaults in the future.

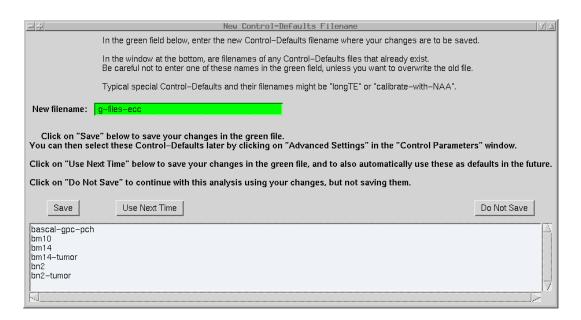


Figure 7.9: Here you enter a name for the file which will store your Control Parameters for optional future use.

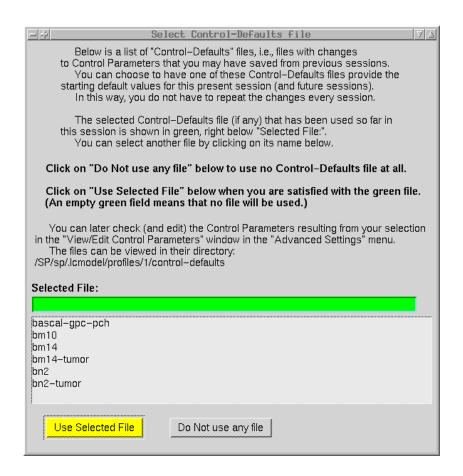


Figure 7.10: Here you select the Control-Defaults file to be used now and in the future.

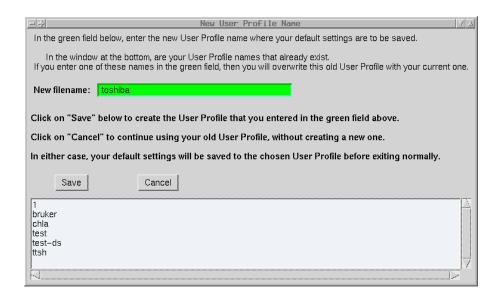


Figure 7.11: At the end of a session, you can select a new User Profile where all of your settings from the session will be saved.

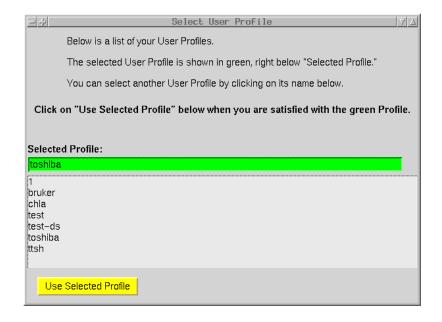


Figure 7.12: At the start of a session, you select the User Profile to be used.

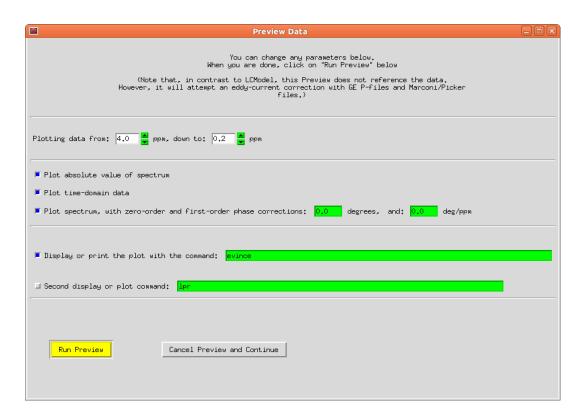


Figure 7.13: Here you can set and execute your commands for printing and/or plotting previews of your data.

Select Execution Script file	$\nabla \Delta$
Below is a list of possible Execution Scripts, which will be executed to run LCModel. The selected Script that will be used is shown in green, right below "Selected File:". You can select another Execution Script for this (and future) sessions	
by clicking on its name below.	
Click on "Use Selected File" below when you are satisfied with the gree	n file.
Selected File: standard ecc make-batch nice standard standard	

Figure 7.14: Here you can select the Execution Script that will be started by LCMgui.

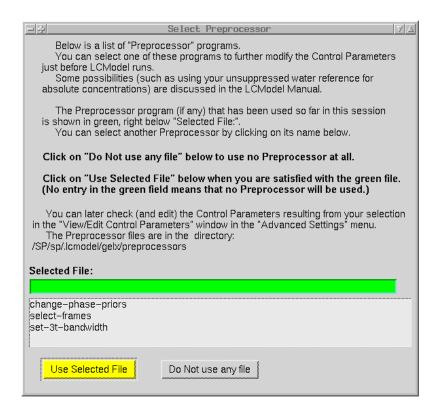


Figure 7.15: Here you can view and/or change the Preprocessor that will be used by LCMgui.