Instrument	Setup	Guide
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Step	Function or Dialog Box	<keystroke>/[Select]/<data Entrv></data </keystroke>	Comment	
Δ	PREPARE	2	Purpose: adjust field and optimize shims. Run	
			if instrument idle \geq week otherwise skip to B .	
1	Sampla		Tap water, spinning. (Do not use the sealed	
1	Sample		instrument)	
2	Enter PNMR.	<alt+tab></alt+tab>	(If necessary.)	
3	Acquire data.	H1>prep <enter></enter>	Spectrometer enters GS mode.	
4	Gain Adjusted		The spectrometer adjusts the receiver gain.	
5	Spectrum acquisition		Prep takes a spectrum	
6	Enter NUTS and	<alt+tab></alt+tab>	Trim phase as required. Use cursor to	
	process data.	>a2	determine peak position in ppm, including sign.	
7	Enter PNMR and set	<alt+tab></alt+tab>	Change to PNMR and enter the peak position in the User Input box	
	field for similing.	Adjust spin air	Adjust spinning speed so the crest to crest	
8	Adjust spinning speed.	flow	spacing in the FID is about 5 horizontal	
-		<ctrl+q></ctrl+q>	divisions.	
9	Minimize side bands.		Y, X, Z, etc shims optimized. Note *	
		Adjust spin air	Adjust spinning speed so the crest-to-crest	
10	Adjust spinning speed.	flow	spacing in the FID is about 2 horizontal	
11		<ctrl+q></ctrl+q>	divisions.	
11	Optimize resolution.	< <u>∧</u>]+⊥□>b>	Spinning shims set, spectrum acquired. Note *	
12	process data		(If the phase as required.) Use cursor to determine neak position in ppm_including sign	
	Enter PNMR and	<alt+tab></alt+tab>	Change to PNMR and enter the peak position in	
13	set field.	value <enter></enter>	the User Input box.	
	SHIM THE		^	
В	MAGNET		<u>Purpose</u> : Optimize resolution.	
1	Sample		5% ethylbenzene or 5% ethylmethacrylate	
2	Enter PNMR.	<alt+tab></alt+tab>	(If necessary.)	
3	Enter shim routine.	H1>shim <enter> or</enter>	The spectrometer automatically adjusts the gain	
1	Enter RD value	value (Enter)	Dilute sample RD-5: Conc. sample RD-2	
5	Shim		Allow time to shim. Note $*$	
<u> </u>	TMCDEEEDENCE			
	IMS REFERENCE		<u>Purpose</u> : Correctly position the spectrum.	
2	Enter PNMR		(If necessary.)	
3	Verify parameters.		Verify that the parameters make sense	
		H1>zq <enter><enter></enter></enter>	If FID display is red, reduce RG, and repeat zg.	
4	Acquire data.	to use the default file name	Proceed to next step when prompted.	
_	Enter NUTS and	<alt+tab></alt+tab>	(Trim phase as required.) Use cursor to	
5	process data	> a2	determine TMS peak position in ppm,	
	1		Including sign.	
	Enter PNMR and	H1>fo <enter></enter>	command enter TMS position determined	
6	enter TMS peak	value <enter></enter>	above for current position, and 0 (zero) for	
	position.	0 <enter></enter>	desired position. Repeat to confirm.	
			Manual shims only: Set the offset on the shim	
7	Adjust offset.		unit to the value shown in the "Set Shim"	
			dialog box.	
			If Step 5 above does not give spectrum with	
D	PHASE CHECK ¹ H		correct phase, see "Update Phase Correction	
			Parameters" in the Appendix.	

* Systems with manual shims only: Carefully follow the screen prompts until the shim routine goes to next step or exits to PNMR.