

Customer Certificate (Summary)



Part-Nr.: Z820201 S/N 101 Probe: PA BBI 400S1 H-BB-D-05 Z

Nuc	Acceptance Testprocedures		Specification						
	Experiment	Conditions	Rated		Tested	Sample/Rated			
1H	<input checked="" type="checkbox"/> Lineshape Spinning	0.55% / 0.11%	5	9	Hz	<input type="text" value="OK"/> <input type="text" value="OK"/>	Hz	<input type="text" value="1% CHCL3"/>	
	Spinning Sidebands			1.5	%	<input type="text" value="OK"/>	%	<input type="text" value=""/>	
	<input checked="" type="checkbox"/> Lineshape Nonspinning	0.55% / 0.11%	6	12	Hz	<input type="text" value="OK"/> <input type="text" value="OK"/>	Hz	<input type="text" value=""/>	
	<input checked="" type="checkbox"/> Resolution (non- / spinning)		50%		0.45	Hz	<input type="text" value="OK"/>	Hz	<input type="text" value="1% CHCL3"/>
	<input type="checkbox"/> Sensitivity (SINO) Spinning	Noise, 2ppm			S/N	<input type="text" value="OK"/>	S/N	0.1% EB	
		Noise, 200Hz		600	S/N	<input type="text" value="OK"/>	S/N		
	<input type="checkbox"/> 90-Degree Pulse	___ dB / Power			W	<input type="text" value="15.8"/>	W		
		90-Degree Pulse		8	us	<input type="text" value="6.9"/>	us		
	<input type="checkbox"/> Backgroundnoise Factor					<input type="text" value="OK"/>		0.1% EB	
	<input type="checkbox"/> Watersuppression S/N	Gasflow			l/h	<input type="text" value="OK"/>	l/h	2mM Sucrose	
	Nonspin	Noise / 1,5ppm		55	S/N	<input type="text" value="OK"/>	S/N		
	Lineshape	50% / 10% DSS	50	100	Hz	<input type="text" value="OK"/> <input type="text" value="OK"/>	Hz		
	Splitting			40	%	<input type="text" value="OK"/>	%		
13C	<input type="checkbox"/> Lineshape Spinning	0.55% / 0.11%			Hz	<input type="text" value=""/>	<input type="text" value=""/>	Hz	<input type="text" value=""/>
	Spinning Sidebands				%	<input type="text" value=""/>	%	<input type="text" value=""/>	
	Resolution (non- / spinning)	50%			Hz	<input type="text" value=""/>	Hz		
	<input type="checkbox"/> Lineshape Nonspinning	0.55% / 0.11%			Hz	<input type="text" value=""/>	<input type="text" value=""/>	Hz	
	<input type="checkbox"/> 90-Degree Pulse 300/500W		___ dB / Power			W	<input type="text" value="80.3"/>	W	
		90-Degree Pulse		15	us	<input type="text" value="14.8"/>	us		
	<input type="checkbox"/> CPD - Parameters	Power			db	<input type="text" value=""/>	db		
					us	<input type="text" value=""/>	us		
	<input type="checkbox"/> Sensitivity (SINO) Spinning	Noise / 40ppm			S/N	<input type="text" value=""/>	S/N	ASTM	
	<input type="checkbox"/> Sensitivity (SINO), CPD Spin	Noise / 40ppm			S/N	<input type="text" value=""/>	S/N	10% EB	
15N	<input type="checkbox"/> 90-Degree Pulse 300/500W	___ dB / Power			W	<input type="text" value="64.5"/>	W		
		90-Degree Pulse		30	us	<input type="text" value="29.9"/>	us		
	<input type="checkbox"/> CPD - Parameters	Power			db	<input type="text" value=""/>	db		
		90-Degree Pulse			us	<input type="text" value=""/>	us	<input type="text" value=""/>	
	<input type="checkbox"/> Sensitivity (SINO), CPD Spin	Noise / 2ppm			S/N	<input type="text" value=""/>	S/N	<input type="text" value=""/> % UREA	
31P	<input type="checkbox"/> 90-Degree Pulse	___ dB / Power			W	<input type="text" value="16"/>	W		
		90-Degree Pulse		25	us	<input type="text" value="24.6"/>	us		
	<input type="checkbox"/> Sensitivity (SINO) Spinning	Noise / 5ppm			S/N	<input type="text" value=""/>	S/N	48.5mM TPP	
19F	<input type="checkbox"/> 90-Degree Pulse	___ dB / Power			W	<input type="text" value="17.4"/>	W		
		90-Degree Pulse			us	<input type="text" value="6.8"/>	us		
	<input type="checkbox"/> Sensitivity (SINO)	Spinning 1ppm			S/N	<input type="text" value=""/>	S/N	0.05% TFT	

Date : 3 / 1 / 05

Signature / Grammalogue : GIN

TEST-DATA



SEL	SEI	SEF	SEX	DUL	DUX	BBO	BBI	QNP	QNI	QXI	TXO	TXD	TXI	TBI	TBO
							X								

Probehead No.	Z820201 / 101	EC	1.01	MHz	400	SB	X	WB	
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Produktion	X
Reparatur	
Convert	

Sample Ø	1 mm		8 mm	
	2.5 mm		10 mm	
	3 mm		20 mm	
	5 mm	X	

Dual Flow Insert	
Probe-Body SB	
Probe-Body WB	

OPTIONS			
HT		ATM Acc.	X
LTA		
LTB		
Micro		
Z-Grad.	X	
XYZ-Grad.		
LEAKPRF		
BTO 2000		

0000 = 14.390 MHz

7999 = 174.213 MHz

Nuc. / Freq. (MHz)	forw. Pulse	forw. CW
X: 31P 161.978	110 W	5 W
X: 13C 100.610	140 W	5 W
X: 15N 40.544	180 W	5 W
	W	W
	W	W
	W	W
19F: 376.497	30 W	W
1H: 400.130	30 W	W
Lock: 61.424	30 W	W

VSP400				
Tuning-Card		Z820201 / 101		
Nuc.	Freq.	Tuning	Matching	Att.dB
31P	161.978	799.0065	99.0356	
87Rb	130.928	798.0070	99.0274	
13C	100.61	796.0183	99.0149	
17O	54.247	779.0228	86.0159	
15N	40.544	757.0152	81.0150	
14N	28.904	709.0204	67.0186	
97Mo	26.618	690.0261	62.0213	
109Ag	18.614	531.0160	20.0246	
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Date: Friday, 10. December 2004

Signature: Frei Thomas

FTH