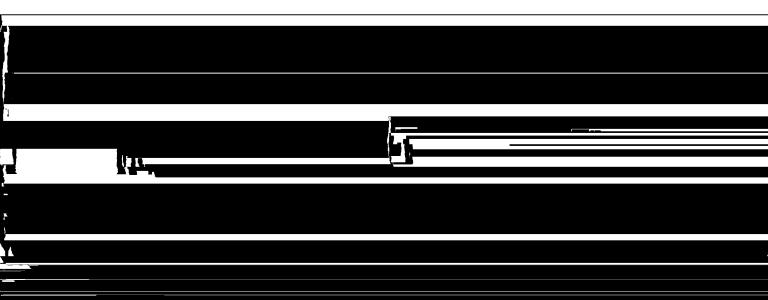
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#### ANALYTICAL PROCEEDINGS, DECEMBER 1990, VOL 27

## INSTRUMENTAL CRITERIA SUB-COMMITTEE INSTRUMENT EVALUATION FORM

	Type of Instrument:	Wavelength dispersive 2	X-ray spectro	ometer					
	Manufacturer:					 			
	Model No:	<u></u>				 			
		Definition and/or	test						
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2. Sample changer and presentation (a) Number of samples (*i*) Internal

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If more than two positions are

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		Definition and/or test procedures and guidance					
	Feature	for assessment	Importance	Reason	Score		
	(d) Positioning and alignment of sample	Score maximum for the best mechanical precision obtained when presenting a sample in each position of the carousel and in each specimen holder.	VI	Discrepancies in the mechanical alignment will affect precision of measurements, particularly as de-focusing can occur when a fine collimator is used. Any displacement (height, angular or lateral) of the sample will affect both excitation and counting efficiency, causing	PS WF		
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	Feature	Definition and/or test procedures and guidance for assessment	Importance	Reason	Score	
-	( <i>ij</i> ) Angular	Score maximum for the	I	Wide angular movement		
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SC Inter	Feature	Definition and/or test procedures and guidance for assessment	Importance	Reason	Score			
anuary 1990. Downloaded by RSC Interna	( <i>iii</i> ) Sealed propor- tional counters	Score maximum for the highest count rate and resolution for K $\alpha$ lines for $z = 22$ (Ti) to $z = 33$ (As).		The provision of a sealed counter improves the performance of the instrument in the middle wavelength range and is of particular benefit if no facility for tandem				
ury 1990				operation of the scintillation and flow proportional counters is available.	PS WF ST			
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5) <sup>1</sup>

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		Definition and/or test							
		procedures and guidance							
	Feature	for assessment	Importance	Reason	Score			l	
	5. Computer							 	
	(a) Automation				1		)		
	( <i>i</i> ) Instrument	Score maximum for the greatest	VI	Computer control of					
	control	number of instrument features		instrumental parameters			1		
		which are under computer		ensures reliable and					
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Also calculate the factor (F) (often referred to as a figure of <u>merit</u>) which is used for optimising instrument operating

under conditons of high resolution is invariably accompanied by a reduction in measured count rates. Unlike atomic

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