



STARTED MAY 15TH







Process – Image Quality						
Classification	Acceptable	Marginal	Reject			
Weight	1.00	0.50	0.00			
	RIB	IMF	RUMP			
% Rejected	<15%	<15%	<5%			



**Correlation** = a measure of the degree of association between two variables. Close to 1.0 as possible

**Bias** = an average measure of how "far off" a tech's predicted measurements are from the true measurements (i.e., measurements made by reference techs). Ideal = 0

Absolute bias = bias except that the sign is ignored (i.e., positive or negative). Ideal = 0

**Standard Error of Prediction (SEP)** = a measure of the accuracy of a tech's predictions for the ultrasound measurements, again comparing

the tech to the reference techs. SEP is a function of the variation in the group of animals scanned and the correlation. Ideally, we want the value for SEP to be small.



**Repeatability** = a measure of the degree of association between repeated measurements on the same animal. The more consistent a technician scans, the higher the repeatability will be. Ideal = 1.0

**Standard Error of Repeatability (SER)** = a measure of the accuracy of repeated measurements on the same animal. Much like SEP is related to correlation, SER is related to repeatability. SER is computed from the

differences between repeated scans on the same animals. Ideal = 0

Genetic evaluations are looking for ACCURACY & CONSISTENCY!



	RIB FT	REA	% IMF	RUMP
Correlation	>0.90	>0.85	>0.85	>0.90
Absolute Bias	< 0.05	< 1.00	< 0.70	< 0.02
SEP	< 0.05	< 1.00	< 0.70	< 0.05
Repeatability	>0.90	>0.80	>0.80	>0.90
SER	< 0.05	< 1.10	< 0.75	< 0.06







U	UGC Absentia IQ Standards							
	Image Type	% Acceptable	% Rejected					
	RIB	93.4	0.6					
	IMF	94.5	0.5					
	RUMP	98.9	0.1					

UGO





