Tested By: _____ Date: _____

ASC (WFS) Style Single Frequency Detector Measured Parameters

All transimpedance measurements are referred to plane of the physical output connector and include the effect of the voltage divider created by the 50 Ω termination. The notch rejection ratios are relative to the magnitude of the transimpedance at the respective RF detection center frequency of the given RF output port. The notation, Q1 to Q4 refers to the specific quadrant of a four section (Quad) diode.

Table 1

Unit identification	Value
Photodetector serial number	
Detector schematic D# and revision	
Diode element manufacturer's Part and serial number	

Table 2

DC Parameters	Value
Quiescent DC current (amps at +18 VDC)	
Quiescent DC current (amps at -18 VDC)	
PD bias regulator output voltage (VDC)	
RF opamp positive voltage regulator (VDC)	
RF opamp negative voltage regulator (VDC)	
Audio opamp positive voltage regulator (VDC)	
Audio opamp negative voltage regulator (VDC)	

Table 3

DC readout transimpedance (Ω at differential output)	Value
Q1	
Q2	
Q3	
Q4	

Table 4

Global RF parameters	Value
RF detection center frequency (MHz)	
2ω Notch frequency (MHz)	

Table 5

Q1 RF notch	Value
Measured DC photocurrent (mA)	
Rejection at 2ω notch (dB)	

Table 6

Q2 RF notch	Value
Measured DC photocurrent (mA)	
Rejection at 2ω notch (dB)	

Table 7

Q3 RF notch	Value
Measured DC photocurrent (mA)	
Rejection at 2ω notch (dB)	

Table 8

Q4 RF notch	Value
Measured DC photocurrent (mA)	
Rejection at 2ω notch (dB)	

Table 9

RF transimpedance	Value
Q1 Transimpedance (Ω)	
Q2 Transimpedance (Ω)	
Q3 Transimpedance (Ω)	
Q4 Transimpedance (Ω)	

Table 10

Shot-noise limited input sensitivity	Value
Q1 (mA)	
Q2 (mA)	
Q3 (mA)	
Q4 (mA)	