Attachment C

Questions about SRCA

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1. The signal of the reference detector of the SRCA has the potential use to trace the SRCA radiance output back to the ground calibration value in A & E phase. The main concern is the saturation of the reference detector.

(1) Is it possible to change the gain of the reference detector during the radiometric mode?(I do not know if the irradiance will saturate the detector or not).

(2) Or add another high density ND filter in the filter-wheel to reduce the irradiance level at the reference detector ? This filter can be switched in after the radiometric calibration is finished for each lamp configuration.

2. What is the stray-light level of SRCA? Is the stray-light throughput measured for different wavelength (<2.3 μ m) at Lab.? This is important for the motivation mentioned in item 1.

3. What is the stepping strategy during spectral calibration? For example, It takes 25 steps with average step length of 1nm for one of the MODIS bands. Does the step length remain unchanged across the band or is the step length variable: denser at both cut-in and cut-out edges and looser in the between? (See PL3095-Q02020, Jan., 1993)

4. How much may the reticle be out of focus when the reticle is imaged onto the MODIS detector plane during SRCA in spatial calibration mode?