**CWG Release of PFM, FM2, FM3, FM4 SRF**

GOES-R Calibration Working Group (CWG)

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**Summary:**

GOES-R ABI vendor delivered ANGEN spectral response functions (SRF) for ABI flight Module (FM): FM2, FM3, FM4 [1,2,3] on Feb.2, 2016. This set of SRFs is provided under **vendor SRF delivery,** together with the PFM SRF delivered by vendor in November 2013 [4]**.**

Similarly to previous releases [5] CWG additionally provides SRF processed to remove any negative response present in the original release. The CWG processing is limited to truncating the SRF to the innermost 0.1% of the relative spectral response [6].

For consistency the PFM SRF [6] is processed similarly to the rest of the ABI units SRF, and a CWG PFM SRF release v3 is issued with this document.

**File description:**

The **vendor SRF** is provided as delivered and consists of the following SRFs:

PFM SRF: ABI-11-468A\_PFM\_Spectral\_Response\_Curves.xlsx

PFM FM2: ABI-16-045\_FM2\_Spectral\_Response\_Curves.xlsx

PFM FM3: ABI-16-046\_FM3\_Spectral\_Response\_Curves.xlsx

PFM FM4: ABI-16-047\_FM4\_Spectral\_Response\_Curves.xlsx

The **CWG processed** SRFs are released as text files with filenames:

GOES-R\_ABI\_UUU\_SRF\_CWG\_chXX.txt, where UUU denotes the ABI unit (PFM, FM2, FM3, or FM4) and XX is the channel number (1 through 16).

After two lines of header the files contain data in three columns as follow:

Column1: wavelength [μm]

Column 2: wavenumber [cm-1]

Column 3: Relative spectral response

**For more information please contact:**

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**References:**

[1] Harris SRF release: ABI-16-045(FM2);

[2] Harris SRF release: ABI-16-046(FM3);

[3] Harris SRF release: ABI-16-047(FM3);

[4] Harris SRF release: ABI-11-468A(PFM);

[5] CWG PFM SRF release v2.

[6] CWG\_report\_SRF\_trunc\_limits.pptx