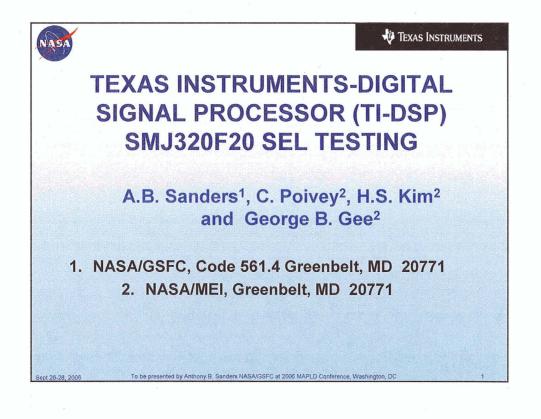
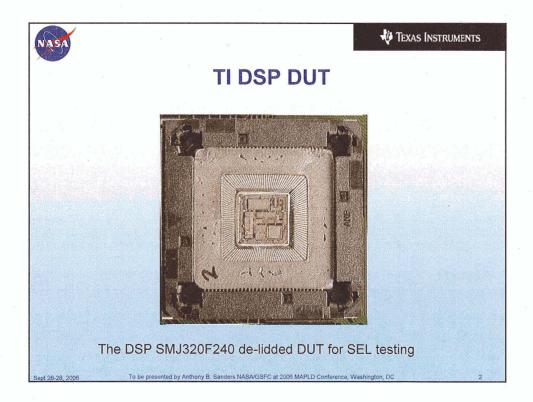
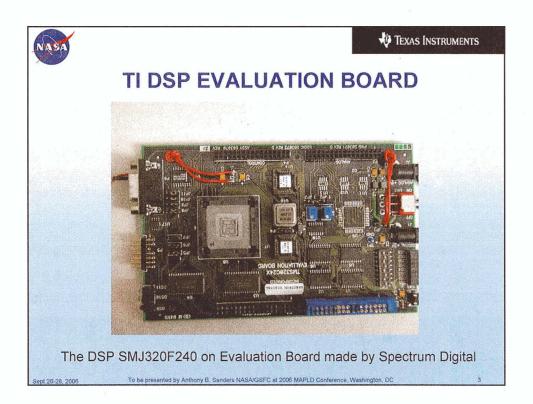
NASA Goddard Space Flight Center

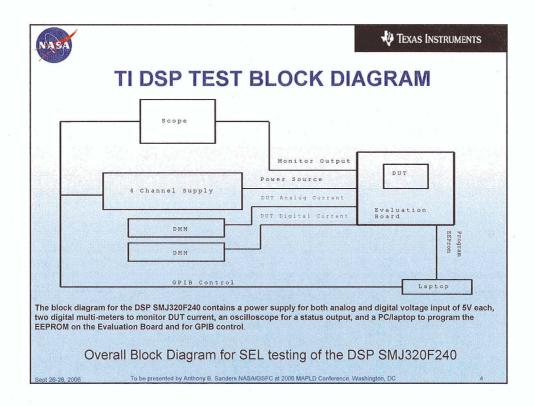




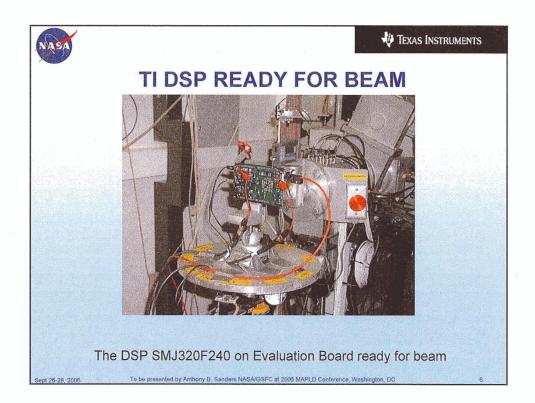
To be presented by Anthony B. Sanders NASA/GSFC at 2006 MAPLD Conference, Washington, DC, Sept. 26-28, 2006.

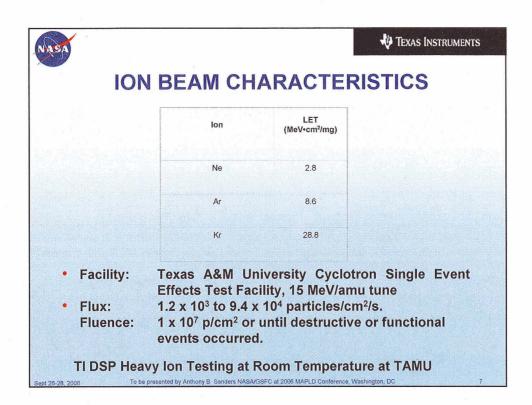
1

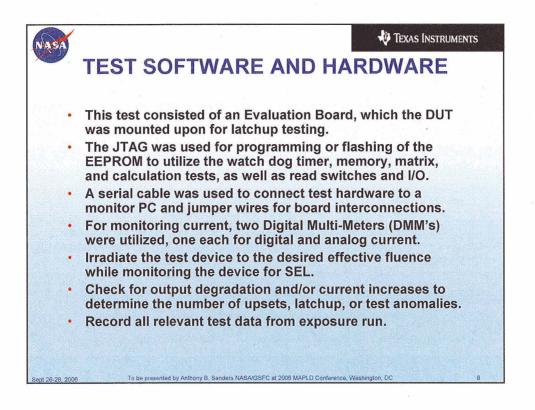














TEST TECHNIQUES

NASA

 Tests were performed to screen for susceptibility to SEL and measure sensitivity as a function of Linear Energy Transfer (LET) for an application specific test setup.

 The test conditions included a digital and analog input voltage of 5V each.

 Two DUT's were exposed to radiation. They were programmed via the JTAG on the Evaluation Board. An equivalent normal-incidence fluence of at least 1x10⁷ ions/cm² was used at each test condition unless an SEL occurred.

• A beam flux range of 1.2 x 10³ to 9.4 x 10⁴ particles/cm²/s resulted in individual exposures between 1.05 seconds and 9 minutes and 26 seconds.

To be presented by Anthony B. Sanders NASA/GSFC at 2006 MAPLD Conferen

