Table 1 – Initialization 4bit Function Test

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| **Test Writer:** | | Aaron Zukley |  |  |  |  |
| **Test Case Name:** | | LCD Initialization Function | **Test ID #:** |  |  | Driver Test |
| **Description:** | | Verify operation of the initialization function for the LCD | **Type:** | |  | White Box |
| **X** | Black Box |
| **Tester Information** | |  |  |  |  |  |
| **Name of Tester:** | |  | Date: |  |  |  |
| **Hardware Ver:** | | 1.0 | Time: |  |  |  |
| **Setup:** |  | Connect STK600 Port\_X\_ to the LCD board input pins | | | | |
| **Test** | **(Test Variable)** | **Expected Result** | **Pass** | **Fail** | **N/A** | **Comments** |
| 1 | Function Set | LOGIC: 0x20  0x20  0xC0  \*DB7 2 Line Mode  DB6 Font ON |  |  |  |  |
| 2 | Display ON/OFF Control | LOGIC: 0x00  0xF0  \*DB6 Display ON  DB5 Cursor ON  DB4 Cursor Blink |  |  |  |  |
| 3 | Display Clear | LOGIC: 0x00  0x10 |  |  |  |  |
| 4 | Entry Mode Set | LOGIC: 0x00  0x60  \*DB5 Increment Mode  DB4 Entire Shift OFF |  |  |  |  |
| **Overall Test Result:** | |  |  |  |  |  |