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| Test Case | Test Specifications | Test Results | Compliance |
| Temp&Hum 2 Click |  |  | Fail |
| USB UART 3 Click |  |  | Pass |
| Color 5 Click |  |  | Pass |
| BarGraph 2 Click |  |  | Pass |
| Accel 5 Click |  |  | Pass |
| Guassmeter Click |  |  | Pass |
| LightRanger 3 Click |  |  | Pass |
| Alcohol Click |  |  | Fail |
| Air Quality Click |  |  | Pass |
| microSD Click |  |  | Pass |

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| **Test Case** | **Test Specifications** | **Test Results** | **Compliance** |
| Input Power Test: PCB Board to FRDM Board | The PCB can power the FRDM-KL46Z with 10V and 1A | TheFRDM-KL46Z powers on. The power pins give correct readings of +3.3V or +5V | Pass |
| **Socket #1** | All pinout functions work. Consists of three groups of communications pins (SPI, UART and I2C), and six additional pins (PWM, INT, AN, RST and CS), and two power groups (+3.3V and 5V). |  | Socket One Pass |
| (AN) Analog |  |  | Pass |
| (RST) Reset |  |  | Pass |
| (INT) Interrupt |  |  | Pass |
| (CS/SCK) SPI |  |  | Pass |
| (MISO/MOSI) SPI |  |  | Pass |
| (RX/TX) UART |  |  | Pass |
| (SCL/SDA) I2C |  |  | Pass |
| PWM |  |  | Pass |
| (+3.3V/+5V) VCC/GND | All four mikroBUS™ sockets have both an optional 3.3V and 5V channel. All four mikroBUS™ sockets are grounded | When PCB is powered with 10v and 1amp. Both the +3.3V and +5V channels display proper voltage output. The GND has 0V output | Pass |
| **Socket #2** | All pinout functions work. Consists of three groups of communications pins (SPI, UART and I2C), and six additional pins (PWM, INT, AN, RST and CS), and two power groups (+3.3V and 5V). |  | Socket Two Pass |
| (AN) Analog |  |  | Pass |
| (RST) Reset |  |  | Pass |
| (INT) Interrupt |  |  | Pass |
| (CS/SCK) SPI |  |  | Pass |
| (MISO/MOSI) SPI |  |  | Pass |
| (RX/TX) UART |  |  | Pass |
| (SCL/SDA) I2C |  |  | Pass |
| PWM |  |  | Pass |
| (+3.3V/+5V) VCC/GND | All four mikroBUS™ sockets have both an optional 3.3V and 5V channel. All four mikroBUS™ sockets are grounded | When PCB is powered with 10v and 1amp. Both the +3.3V and +5V channels display proper voltage output. The GND has 0V output | Pass |
| **Socket #3** | All pinout functions work. Consists of three groups of communications pins (SPI, UART and I2C), and six additional pins (PWM, INT, AN, RST and CS), and two power groups (+3.3V and 5V). |  | Socket Three Pass |
| (AN) Analog |  |  | Pass |
| (RST) Reset |  |  | Pass |
| (INT) Interrupt |  |  | Pass |
| (CS/SCK) SPI |  |  | Pass |
| (MISO/MOSI) SPI |  |  | Pass |
| (RX/TX) UART |  |  | Pass |
| (SCL/SDA) I2C |  |  | Pass |
| PWM |  |  | Pass |
| (+3.3V/+5V) VCC/GND |  |  | Pass |
| **Socket #4** | All pinout functions work. Consists of three groups of communications pins (SPI, UART and I2C), and six additional pins (PWM, INT, AN, RST and CS), and two power groups (+3.3V and 5V). |  | Socket Four Pass |
| (AN) Analog |  |  | Pass |
| (RST) Reset |  |  | Pass |
| (INT) Interrupt |  |  | Pass |
| (CS/SCK) SPI |  |  | Pass |
| (MISO/MOSI) SPI |  |  | Pass |
| (RX/TX) UART |  |  | Pass |
| (SCL/SDA) I2C |  |  | Pass |
| PWM |  |  | Pass |
| (+3.3V/+5V) VCC/GND |  |  | Pass |

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| **Website Validation** | | | |
| **Test Case** | **Test Specifications** | **Test Results** | **Compliance** |
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