|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Equivalence Class Design** | | | | | | | | | |
| **Valid EC** |  |  |  |  | | **Invalid EC** | |  |  |
| **EC ID** | **Condition** | | | |  | **EC ID** | **Condition** | | |
| V1 | X1 : 1000 <= X1 < 3000 | | | |  | NV1 | X1 : X1 < 1000 | | |
| V2 | X1 : 3000 <= X1 <= 5000 | | | |  | NV2 | X1 : X1 > 5000 | | |
| V3 | X2 : 300 <= X2 < 550 | | | |  | NV3 | X2 : X2 < 300 | | |
| V4 | X2 : 550 <= X2 <= 800 | | | |  | NV4 | X2 : X2 > 800 | | |
| V5 | X3 : 500 <= X3 < 1750 | | | |  | NV5 | X3 : X3 < 500 | | |
| V6 | X3 : 1750 <= X3 <= 3000 | | | |  | NV6 | X3 : X3 > 3000 | | |
|  |  | | | |  |  |  | | |
|  |  | | | |  |  |  | | |
|  |  | | | |  |  |  | | |
|  |  | | | |  |  |  | | |
|  |  | | | |  |  |  | | |
|  |  | | | |  |  |  | | |
|  |  | | | |  |  |  | | |
|  |  | | | |  |  |  | | |
|  |  | | | |  |  |  | | |
|  |  | | | |  |  |  | | |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Test Case Design and Test Results** | | | | | | | | | | | | | |
|  |  | | | |  |  |  |  | |  |  | | |
| **Project Name:** | Income | | | | | | | **Project ID:** | |  | | | |
| **Test Strategy:** | Strong Robust Equivalence Class Testing | | | | | | | **Designer:** | | Suttipad Rodhom | | | |
| **Test Environment:** | |  | | | | | | | | | | | |
|  |  | | | |  |  |  |  | |  |  | | |
| **Test Case ID** | **Input** | | | **Expected Result** | | | | | **Actual Result** | | | **Status (Pass/Fail/No run)** |
| ใบพัด | มอเตอร์ | กระจัง |
| TC01 | 1000 | 300 | 500 | 29000 | | | | | 29000 | | | Pass |
| TC02 | 1000 | 300 | 1750 | 54000 | | | | | 54000 | | | Pass |
| TC03 | 1000 | 300 | 499 | -1 | | | | | -1 | | | Pass |
| TC04 | 1000 | 300 | 3001 | -1 | | | | | 79020 | | | Fail |
| TC05 | 1000 | 550 | 500 | 36500 | | | | | 36500 | | | Pass |
| TC06 | 1000 | 550 | 1750 | 61500 | | | | | 61500 | | | Pass |
| TC07 | 1000 | 550 | 499 | -1 | | | | | -1 | | | Pass |
| TC08 | 1000 | 550 | 3001 | -1 | | | | | 86520 | | | Fail |
| TC09 | 1000 | 299 | 500 | -1 | | | | | -1 | | | Pass |
| **Test Case ID** | **Input** | | | **Expected Result** | | | | | **Actual Result** | | | **Status (Pass/Fail/No run)** |
| ใบพัด | มอเตอร์ | กระจัง |
| TC10 | 1000 | 299 | 1750 | -1 | | | | | -1 | | | Pass |
| TC11 | 1000 | 299 | 499 | -1 | | | | | -1 | | | Pass |
| TC12 | 1000 | 299 | 3001 | -1 | | | | | -1 | | | Pass |
| TC13 | 1000 | 801 | 500 | -1 | | | | | 44030 | | | Fail |
| TC14 | 1000 | 801 | 1750 | -1 | | | | | 69030 | | | Fail |
| TC15 | 1000 | 801 | 499 | -1 | | | | | -1 | | | Pass |
| TC16 | 1000 | 801 | 3001 | -1 | | | | | 94050 | | | Fail |
| TC17 | 2500 | 300 | 500 | 44000 | | | | | 44000 | | | Pass |
| TC18 | 2500 | 300 | 1750 | 69000 | | | | | 69000 | | | Pass |
| TC19 | 2500 | 300 | 499 | -1 | | | | | -1 | | | Pass |
| TC20 | 2500 | 300 | 3001 | -1 | | | | | 94020 | | | Fail |
| TC21 | 2500 | 550 | 500 | 51500 | | | | | 51500 | | | Pass |
| TC22 | 2500 | 550 | 1750 | 76500 | | | | | 76500 | | | Pass |
| TC23 | 2500 | 550 | 499 | -1 | | | | | -1 | | | Pass |
| TC24 | 2500 | 550 | 3001 | -1 | | | | | 101520 | | | Fail |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Test Case ID** | **Input** | | | **Expected Result** | **Actual Result** | **Status (Pass/Fail/No run)** |
| ใบพัด | มอเตอร์ | กระจัง |
| TC25 | 2500 | 299 | 500 | -1 | -1 | Pass |
| TC26 | 2500 | 299 | 1750 | -1 | -1 | Pass |
| TC27 | 2500 | 299 | 499 | -1 | -1 | Pass |
| TC28 | 2500 | 299 | 3001 | -1 | -1 | Pass |
| TC29 | 2500 | 801 | 500 | -1 | 59030 | Fail |
| TC30 | 2500 | 801 | 1750 | -1 | 84030 | Fail |
| TC31 | 2500 | 801 | 499 | -1 | -1 | Pass |
| TC32 | 2500 | 801 | 3001 | -1 | 109050 | Fail |
| TC33 | 999 | 300 | 500 | -1 | -1 | Pass |
| TC34 | 999 | 300 | 1750 | -1 | -1 | Pass |
| TC35 | 999 | 300 | 499 | -1 | -1 | Pass |
| TC36 | 999 | 300 | 3001 | -1 | -1 | Pass |
| TC37 | 999 | 550 | 500 | -1 | -1 | Pass |
| TC38 | 999 | 550 | 1750 | -1 | -1 | Pass |
| TC39 | 999 | 550 | 499 | -1 | -1 | Pass |
| TC40 | 999 | 550 | 3001 | -1 | -1 | Pass |
| TC41 | 999 | 299 | 500 | -1 | -1 | Pass |
| TC42 | 999 | 299 | 1750 | -1 | -1 | Pass |
| TC43 | 999 | 299 | 499 | -1 | -1 | Pass |
| TC44 | 999 | 299 | 3001 | -1 | -1 | Pass |
| TC45 | 999 | 801 | 500 | -1 | -1 | Pass |
| TC46 | 999 | 801 | 1750 | -1 | -1 | Pass |
| TC47 | 999 | 801 | 499 | -1 | -1 | Pass |
| TC48 | 999 | 801 | 3001 | -1 | -1 | Pass |
| TC49 | 5001 | 300 | 500 | -1 | 69010 | Fail |
| TC50 | 5001 | 300 | 1750 | -1 | 94010 | Fail |
| TC51 | 5001 | 300 | 499 | -1 | -1 | Pass |
| TC52 | 5001 | 300 | 3001 | -1 | 119030 | Fail |
| TC53 | 5001 | 550 | 500 | -1 | 76510 | Fail |
| TC54 | 5001 | 550 | 1750 | -1 | 101510 | Fail |
| TC55 | 5001 | 550 | 499 | -1 | -1 | Pass |
| TC56 | 5001 | 550 | 3001 | -1 | 126530 | Fail |
| TC57 | 5001 | 299 | 500 | -1 | -1 | Pass |
| TC58 | 5001 | 299 | 1750 | -1 | -1 | Pass |
| TC59 | 5001 | 299 | 499 | -1 | -1 | Pass |
| TC60 | 5001 | 299 | 3001 | -1 | -1 | Pass |
| TC61 | 5001 | 801 | 500 | -1 | 84040 | Fail |
| TC62 | 5001 | 801 | 1750 | -1 | 109040 | Fail |
| TC63 | 5001 | 801 | 499 | -1 | -1 | Pass |
| TC64 | 5001 | 801 | 3001 | -1 | 134060 | Fail |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Scenario ID** | **Scenario Name** | **Test Case#** | **Pass** | **Fail** | **No run** | **Block** | **Remark** | **Defect ID** |
| EC-Lab5-01 | Income | 64 | 45 | 19 | - | - |  |  |
| **รวม** | | 64 | 45 | 19 | - | - |  |  |