Test Case Team VFL

OPTIMIZE DESIGN PARAMETER FOR MICROWAVE FILTER

Tester name:

2024

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| **Test Case ID** | | Version1\_1 | **Test Case Description** | | Observe cost and reward value by adjust the design parameter | | | | | |
| **Created By** | | Fong, Vincent | **Reviewed By** | | Leong | | **Version** | | Version 1.0.0.0 | |
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| **QA Tester’s Log** | |  | | | |  |  |  |  |  |
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| **Tester's Name** | | Mr Amir | **Date Tested** | | 19/4/2024 | | **Test Case (Pass/Fail/Not Executed)** | |  | |
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| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data (Cost and Reward)** | | | | |
| 1 | Download application folder | | |  | 1 | All design parameter = 40 | | | | |
| 2 | Open .exe file in \TeamVFL\_Project\_Prototype\bin\x64\Release | | |  | 2 | Design parameter, c1:14, l1:28, c2:74, l2:36, c3:59, l3:20 | | | | |
| 3 | Import the .fpx file from Test FPX file provided | | |  | 3 | Design parameter, c1:18, l1:39, c2:57, l2:62, c3:21, l3:40 | | | | |
| 4 | Click on the “Optimize” Button | | |  | 4 | Design parameter, c1:65, l1:35, c2:45, l2:25, c3:20, l3:15 | | | | |
| 5 |  | | |  | 5 | Design parameter, c1:66, l1:28, c2:40, l2:20, c3:40, l3:15 | | | | |
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| **Test Scenario** |  | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results**  **(should below 10% of initial cost & should above 10% of initial reward）** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | Import .fpx with all parameter to 40 | | Cost= 78.9 , Reward= -78.9 | | Cost= 55.77, Reward=-45.77 | | | Pass | | |
| 2 | Import .fpx with parameter c1:14, l1:28, c2:74, l2:36, c3:59, l3:20 | | Cost=97.6 , Reward=-97.6 | | Cost= 55.39, Reward=-45.39 | | | Pass | | |
| 3 | Import .fpx with parameter c1:18, l1:39, c2:57, l2:62, c3:21, l3:40 | | Cost= , Reward= | | Cost= , Reward= | | |  | | |
| 4 | Import .fpx with parameter c1:65, l1:35, c2:45, l2:25, c3:20, l3:15 | | Cost= , Reward= | | Cost= , Reward= | | |  | | |
| 5 | Import .fpx with parameter c1:66, l1:28, c2:40, l2:20, c3:40, l3:15 | | Cost= , Reward= | | Cost= , Reward= | | |  | | |

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| **S #** | **Tester Remark** |
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| **Test Case ID** | | Version1\_2 | **Test Case Description** | | Import file that out of .fpx | | | | | |
| **Created By** | | Fong, Vincent | **Reviewed By** | | Leong | | **Version** | | Version 1.0.0.0 | |
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| **QA Tester’s Log** | |  | | | |  |  |  |  |  |
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| **Tester's Name** | |  | **Date Tested** | |  | | **Test Case (Pass/Fail/Not Executed)** | |  | |
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| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Download application folder | | |  | 1 | .pdf | | | | |
| 2 | Open .exe file in \TeamVFL\_Project\_Prototype\bin\x64\Release | | |  | 2 | .csv | | | | |
| 3 | Import any file that is not .fpx | | |  | 3 | .png | | | | |
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| **Test Scenario** |  | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
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| 1 | Import .pdf file | | File not found, been filter by desktop app | | File not found, even it’s exit in same path | | | Pass | | |
| 2 | Import .csv file | | File not found, been filter by desktop app | | File not found, even it’s exit in same path | | | Pass | | |
| 3 | Import .png file | | File not found, been filter by desktop app | | File not found, even it’s exit in same path | | | Pass | | |
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| **Test Case ID** | | Version1\_3 | **Test Case Description** | | Test Design Response area functionality | | | | | |
| **Created By** | | Fong, Vincent | **Reviewed By** | | Leong | | **Version** | | Version 1.0.0.0 | |
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| **QA Tester’s Log** | |  | | | |  |  |  |  |  |
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| **Tester's Name** | |  | **Date Tested** | |  | | **Test Case (Pass/Fail/Not Executed)** | |  | |
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| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Download application folder | | |  | 1 | All design parameter = 40 | | | | |
| 2 | Open .exe file in \TeamVFL\_Project\_Prototype\bin\x64\Release | | |  | 2 |  | | | | |
| 3 | Import the .fpx file from Test FPX file provided | | |  | 3 |  | | | | |
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| **Test Scenario** |  | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
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| **Test Case ID** | | Version1\_4 | **Test Case Description** | | Test Design Parameter area functionality | | | | | |
| **Created By** | | Fong, Vincent | **Reviewed By** | | Leong | | **Version** | | Version 1.0.0.0 | |
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| **QA Tester’s Log** | |  | | | |  |  |  |  |  |
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| **Tester's Name** | |  | **Date Tested** | |  | | **Test Case (Pass/Fail/Not Executed)** | |  | |
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| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Download application folder | | |  | 1 | All design parameter = 40 | | | | |
| 2 | Open .exe file in \TeamVFL\_Project\_Prototype\bin\x64\Release | | |  | 2 |  | | | | |
| 3 | Import the .fpx file from Test FPX file provided | | |  | 3 |  | | | | |
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| **Test Scenario** |  | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | C1 min =20, max =30. L3 min=31, max=35 | | The c1, l3 update value should not between the range. | | The C1 is between 20 to 22 , and L3 is between 31 to 34 | | | Pass | | |
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| **S #** | **Tester Remark** |
| 1 | When import file, the design parameter min, max value will reset. Not user friendly. |
| 2 | If possible, when adjust the min, max value, the design parameter will change back to initial value when import. |
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| **Test Case ID** | | Version1\_5 | **Test Case Description** | | Test Goals Setting area functionality | | | | | |
| **Created By** | | Fong, Vincent | **Reviewed By** | | Leong | | **Version** | | Version 1.0.0.0 | |
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| **QA Tester’s Log** | |  | | | |  |  |  |  |  |
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| **Tester's Name** | | Mr Amir | **Date Tested** | | 19.4.2024 | | **Test Case (Pass/Fail/Not Executed)** | |  | |
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| **S #** | **Prerequisites:** | | |  | **S #** | **Test Data** | | | | |
| 1 | Download application folder | | |  | 1 | All design parameter = 40 | | | | |
| 2 | Open .exe file in \TeamVFL\_Project\_Prototype\bin\x64\Release | | |  | 2 |  | | | | |
| 3 | Import the .fpx file from Test FPX file provided | | |  | 3 |  | | | | |
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| **Test Scenario** |  | | | | | |  |  |  |  |
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| **Step #** | **Step Details** | | **Expected Results** | | **Actual Results** | | | **Pass / Fail / Not executed / Suspended** | | |
|
| 1 | Update the g0 value to -5, g1 value to -25 | | S11 line should below -5 between 0.1 to 0.45 ghz, and S21 should below -25 | | Meet the goals | | | Pass | | |
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| **S #** | **Tester Remark** |
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