Test Case Team VFL

OPTIMIZE DESIGN PARAMETER FOR MICROWAVE FILTER

Tester name: Ms adilah

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** | |  | **Date Tested** | |  | | **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** | | |
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| 1 | Import .fpx with all parameter to 40 | | Cost= , Reward= | | Cost= , Reward | | |  | | |
| 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= 103.1 , Reward=-103.1 | | Cost=55.59 , Reward=-45.59 | | | Pass | | |
| 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** |
| 1 | After importing new file again, when click on the checkbox that show series. The graph will become back the optimize graph. |
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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 | | Not found | | | Pass | | |
| 2 | Import .csv file | | File not found, been filter by desktop app | | Not Found | | | Pass | | |
| 3 | Import .png file | | File not found, been filter by desktop app | | Not Found | | | 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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| 1 | Ctrl + Alt + select the graph area | |  | | Able to view specific area. | | | Pass | | |
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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** | | |
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| 1 | Adjust the max value of design parameter to 1000. | | AI still can produce good optimize result. | | AI performance is good, as the cost only have 55. | | | Pass | | |
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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** | |  | **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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| 1 | G0 value =-30, G1 & G2 value=-10 | | The ai should produce the result that meet the goals. | | The result is not good as the cost is 700+. | | | Fail | | |
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