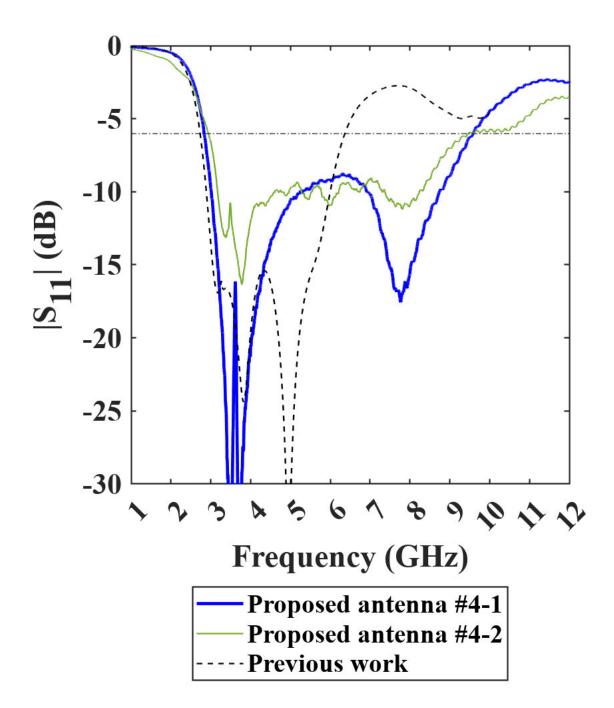
# Antenna Frequency Response Report Generator

## 1 Configuration

```
clear;
close all;
clc;
clf;
sympref('FloatingPointOutput',false);
sympref('AbbreviateOutput',true);
format LongEng;
dir_output = "../inout_sps";
filenames_toload = ["VMTM_Mono_L10_sub72x57_S2.s1p";"VMTM_Mono_L10_sub30x40.s1p";"PCB BW 3cell C-freq 0.6pf Best modal Ground_env01_$R_rc
%cmdColorOrder = [0 0 1; 1 0 0; 0.4660 0.6740 0.1880];
                                                            % https://jp.mathworks.com/help/matlab/creating_plots/defining-the-color-
cmdColorOrder = [0 0 1; 0.4660 0.6740 0.1880; 0 0 0 ];
cmdLineStyleOrder = ["-" "--"];
cmdLineWidthOrder = [2; 1; 1];
                                                              % https://jp.mathworks.com/help/matlab/creating_plots/defining-the-color-
cmdXlim_GHz = [1;12];
cmdStyles="ieee";
```

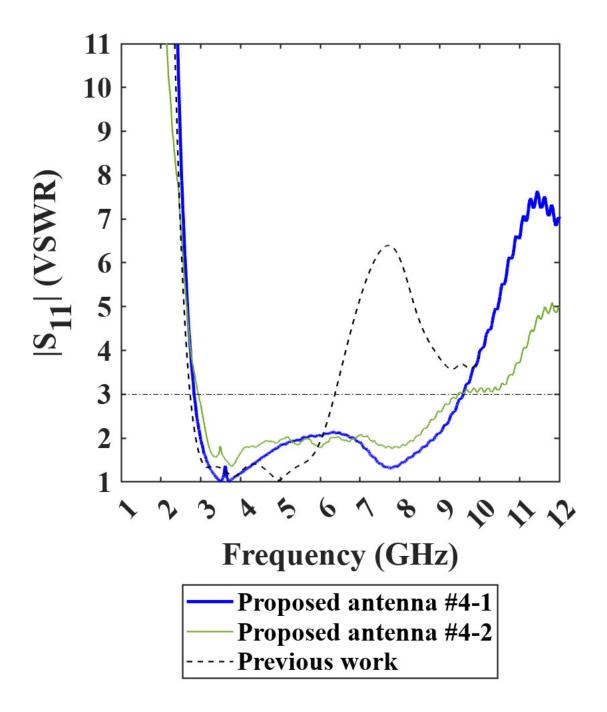
#### 2 Return Loss [dB]

cmd\_genfig\_s11\_logmag(dir\_output, filenames\_toload, cmdXlim\_GHz, cmdStyles, savefile\_types, alternate\_filenames, cmdColorOrder, cmdLineSty

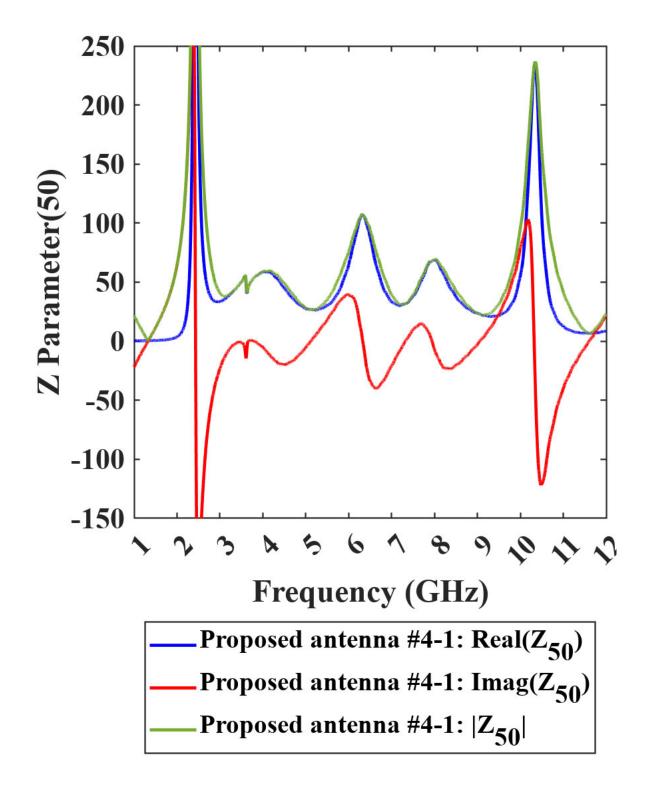


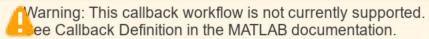
## 3 VSWR

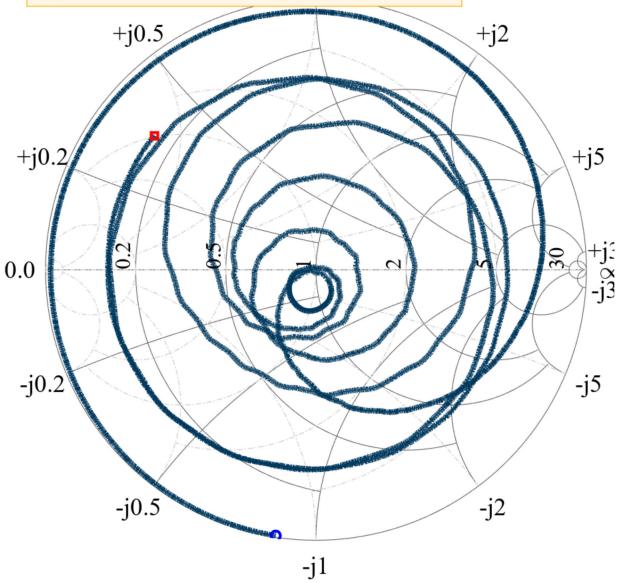
 $\verb|cmd_genfig_s11_vswr| (dir_output, filenames_toload, cmdXlim_GHz, cmdStyles, savefile\_types, alternate\_filenames, cmdColorOrder, cmdLineStyles, cmdStyles, cmdStyl$ 



#### **4 Z Parameters**

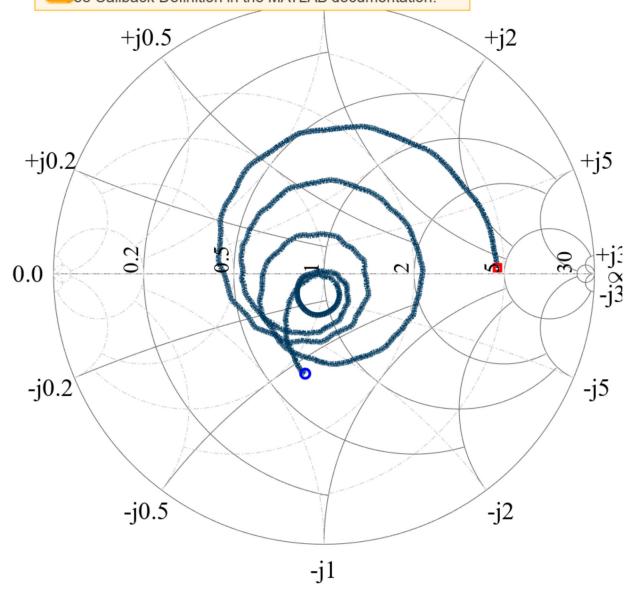






## 6 S11 Smith Chart (reduced-range)

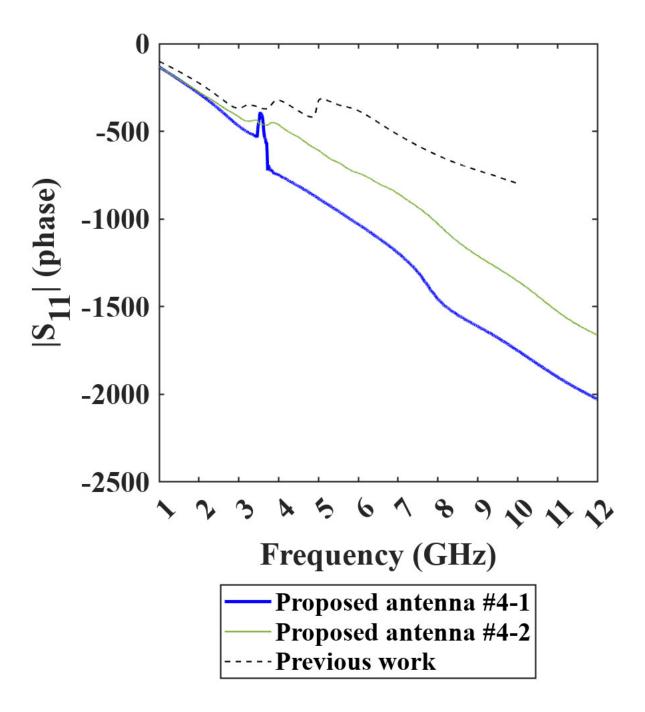
Warning: This callback workflow is not currently supported. ee Callback Definition in the MATLAB documentation.



% error: creating .csv file.. cmd\_genfig\_s11\_smith(dir\_output, filenames(1), "man", [1.5;2.5], cmdStyles, [".csv";".png"], cmdColorOrder,

#### 7 S11 Phase (unwrapped)

cmd\_genfig\_s11\_phase(dir\_output, filenames\_toload, cmdXlim\_GHz, cmdStyles, savefile\_types, alternate\_filenames, cmdColorOrder, cmdLimeStyl



## 8 S11 Phase (wrapped)

cmd\_genfig\_s11\_phase(dir\_output, filenames\_toload, cmdXlim\_GHz, cmdStyles, savefile\_types, alternate\_filenames, cmdColorOrder, cmdLineStyl

