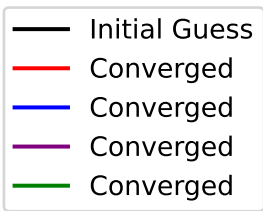
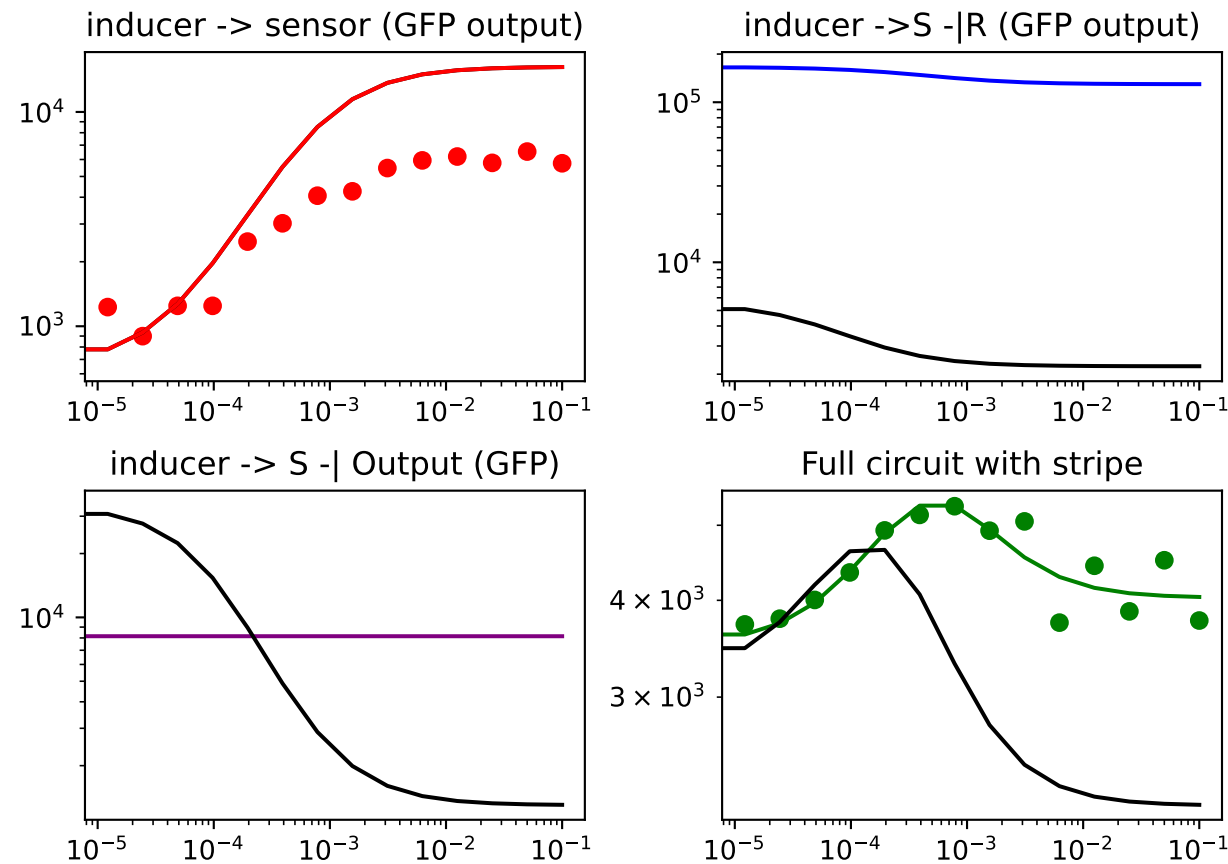


['SM data type data plots for mutation', 'Sensor7', 'using model:', 'model']



time elapsed for this fit  
--- 71.07673597335815 seconds ---

Across all four plots:

RSS (converged)=1.507

RSS (initial)=2.062

RSS (% reduction)=0.578

	epsilon	Initial_guesses	Converged
A_s	0.000000	650.714912	650.714912
B_s	0.000000	16259.979950	16259.979950
C_s	0.000000	1296.448889	1296.448889
N_s	0.000000	1.154067	1.154067
A_r	14.946048	2020.019216	2034.965264
B_r	147351.943924	23688.809187	171040.753111
C_r	-0.010346	0.010358	0.000011
N_r	-0.271838	0.910072	0.638234
A_h	-143.764290	143.802212	0.037922
B_h	-42086.579147	50238.271408	8151.692261
C_h	-0.000904	0.000929	0.000025
A_o	10.065009	1.673894	11.738904
B_o	6.156492	0.895342	7.051834
C_o	-2.195776	2.657699	0.461922
N_o	8.002702	1.379953	9.382654
F_o	24.719446	2.361284	27.080730

message: Optimization terminated successfully.  
success: True  
status: 0  
fun: 1.5068646465980953  
x: [ 6.507e+02 1.626e+04 ... 9.383e+00 2.708e+01]  
nit: 28469  
nfev: 37518  
final\_simplex: (array([[ 6.507e+02, 1.626e+04, ..., 9.383e+00, 2.708e+01],  
[ 6.507e+02, 1.626e+04, ..., 9.383e+00, 2.708e+01],  
...,  
[ 6.507e+02, 1.626e+04, ..., 9.383e+00, 2.708e+01],  
[ 6.507e+02, 1.626e+04, ..., 9.383e+00, 2.708e+01]]), array([ 1.507e+00, 1.507e+00, ..., 1.507e+00, 1.507e+00]))