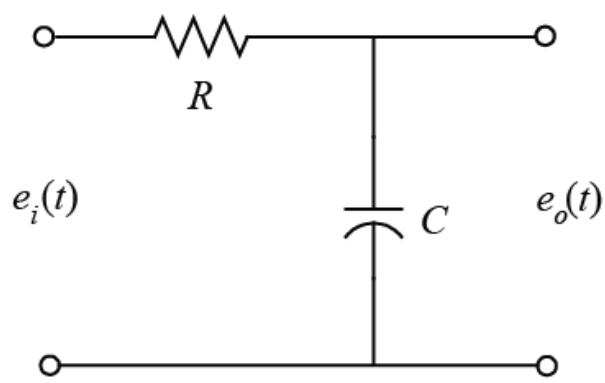
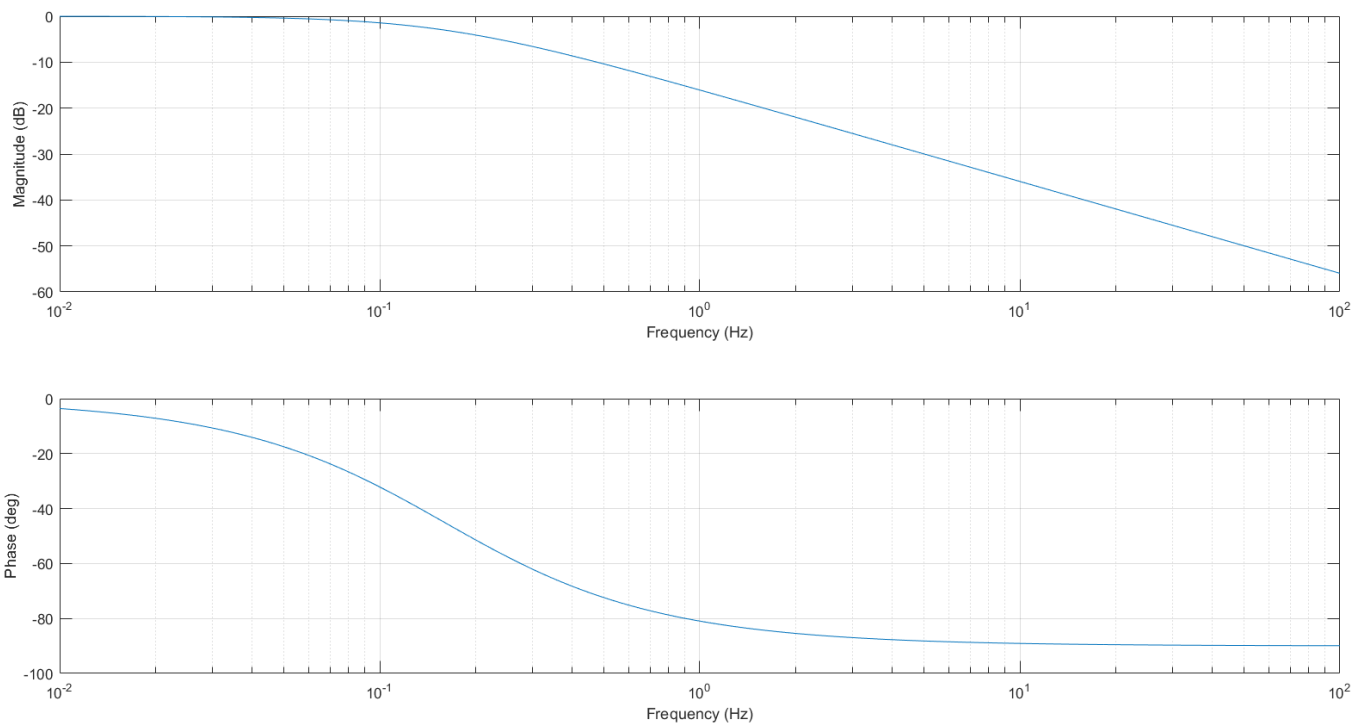


Test 1

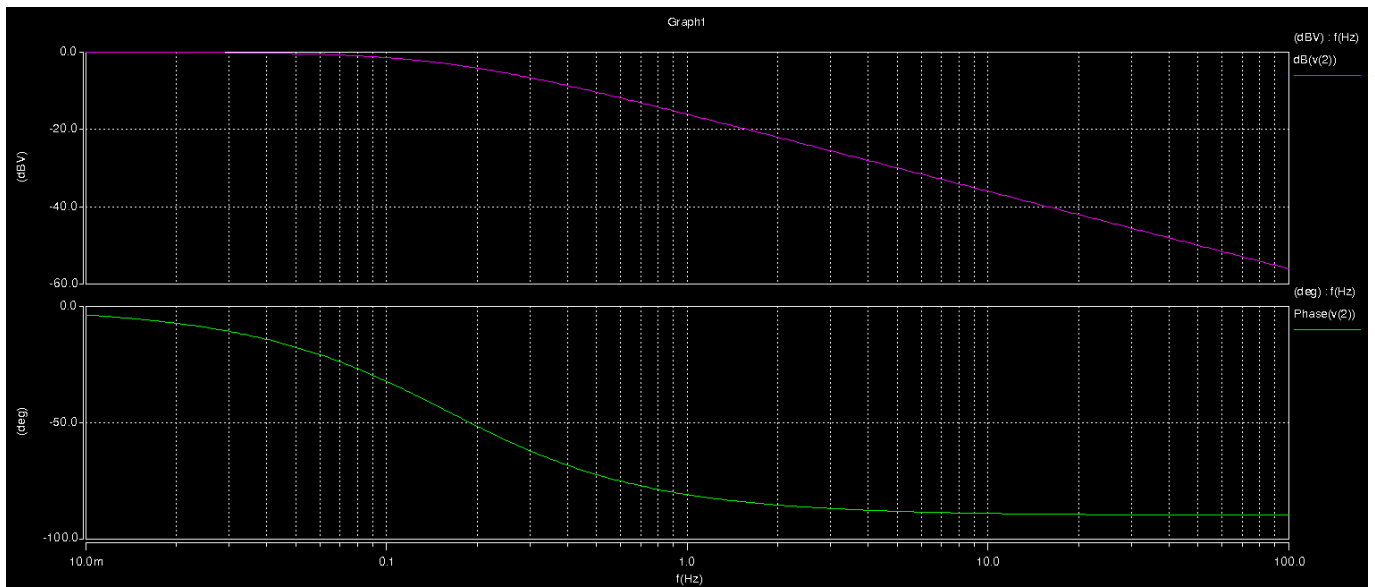


Netlist									
MATLAB					HSPICE				
***Test 1					***Test 1				
Vin	1	0	1		Vin	1	0	ac=1	
R1	1	2	10k		R1	1	2	10k	
C1	2	0	100u		C1	2	0	100u	
.	0.01	100	1	2	.ac	dec	100	0.01	100
					.end				

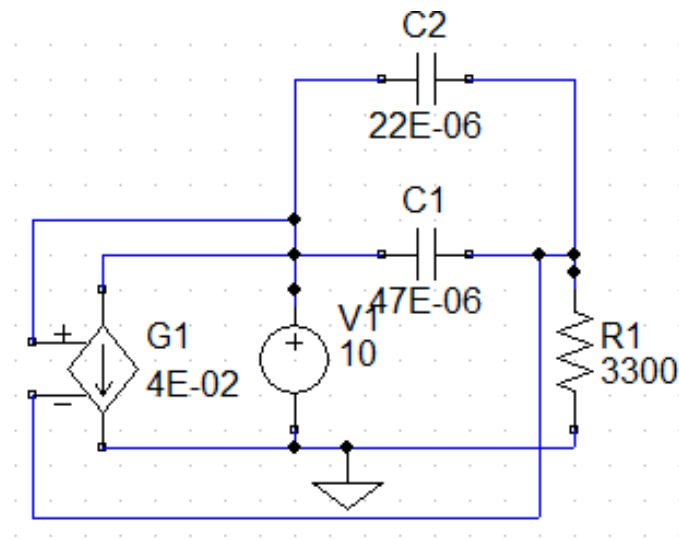
MATLAB Plot Test 1



HSPICE Plot for Test 1

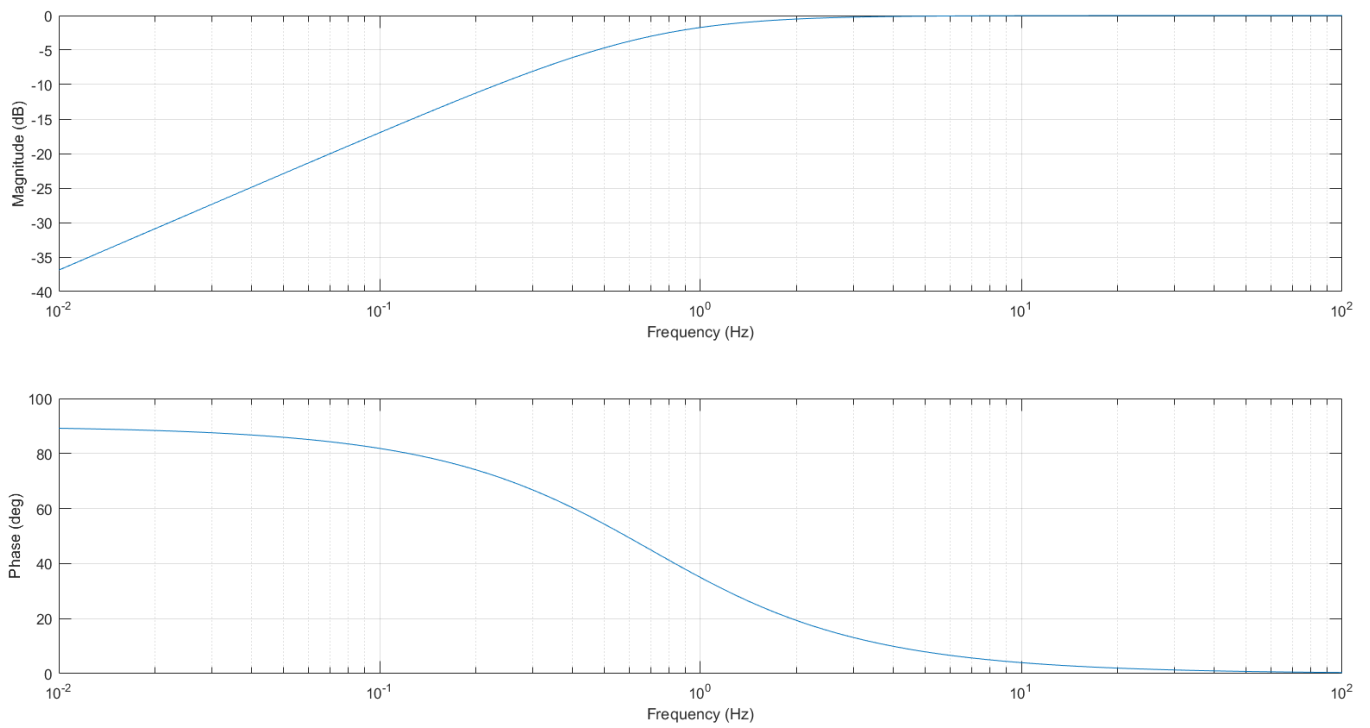


Test 2

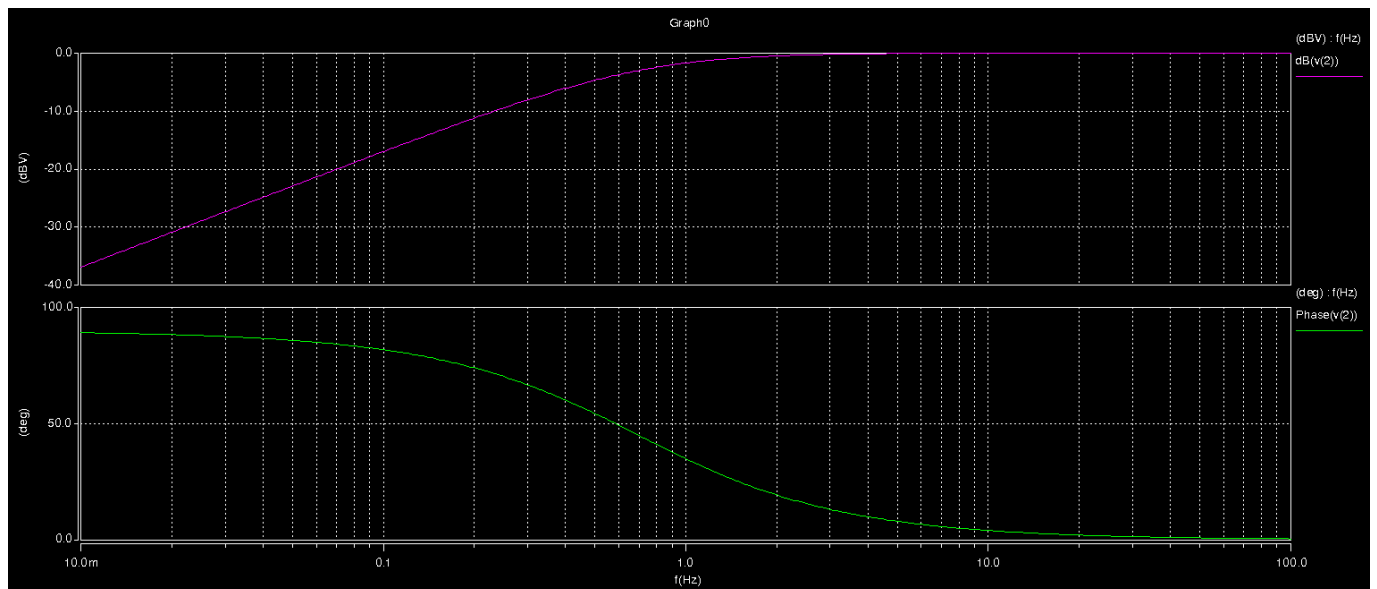


Netlist										
MATLAB						HSPICE				
***Test 2						***Test 2				
V1	1	0	1			V1	1	0	ac=1	
C1	1	2	47u			C1	1	2	47u	
C2	1	2	22u			C2	1	2	22u	
R1	2	0	3300			R1	2	0	3300	
G1	1	0	1	2	0.04	G1	1	0	1	2 0.04
.	100	0.01	1	2		.ac	dec	100	0.01	100
						.end				

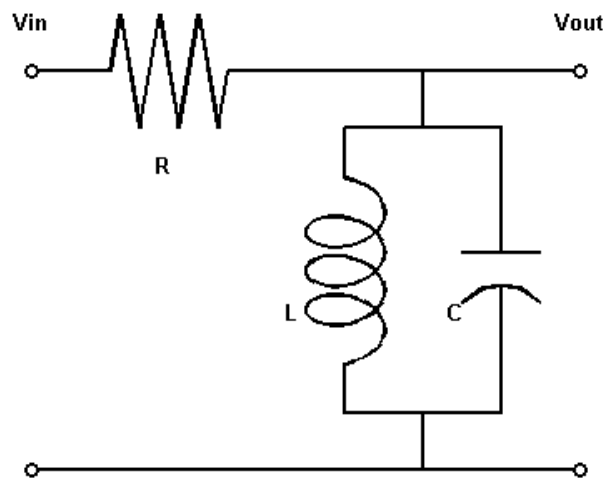
MATLAB Plot for Test 2



HSPICE Plot for Test 2

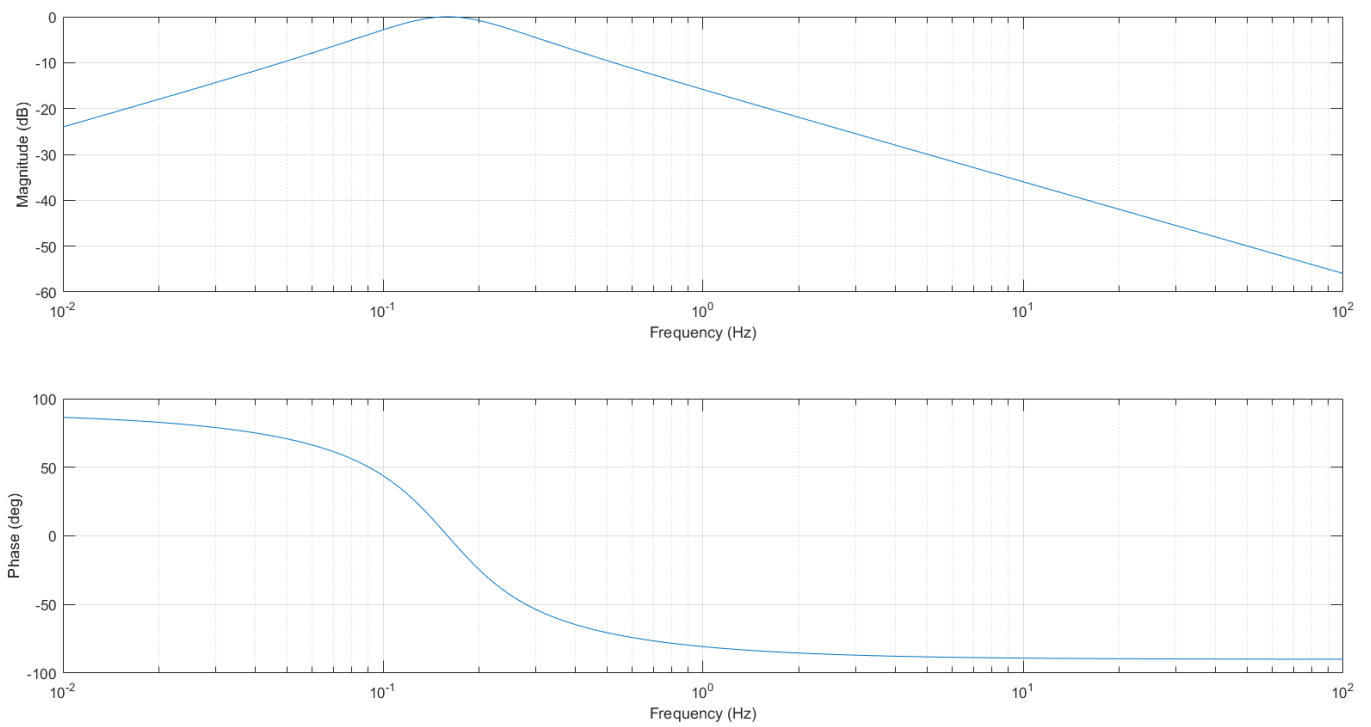


Test 3

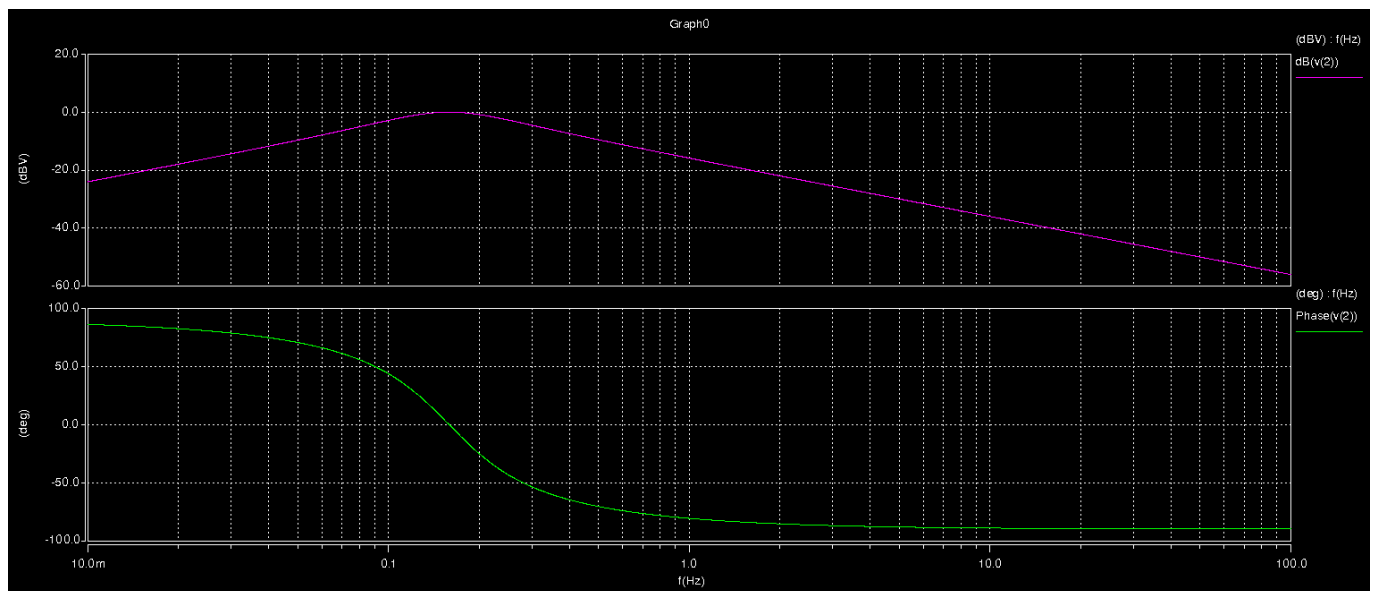


Netlist									
MATLAB					HSPICE				
***Test 3					***Test 3				
Vin	1	0	1		Vin	1	0	ac=1	
R1	1	2	1		R1	1	2	1	
L1	2	0	1		L1	2	0	1	
C1	2	0	1		C1	2	0	1	
.	0.01	100	1	2	.ac	dec	1000	0.01	100
					.end				

MATLAB Plot for Test 3

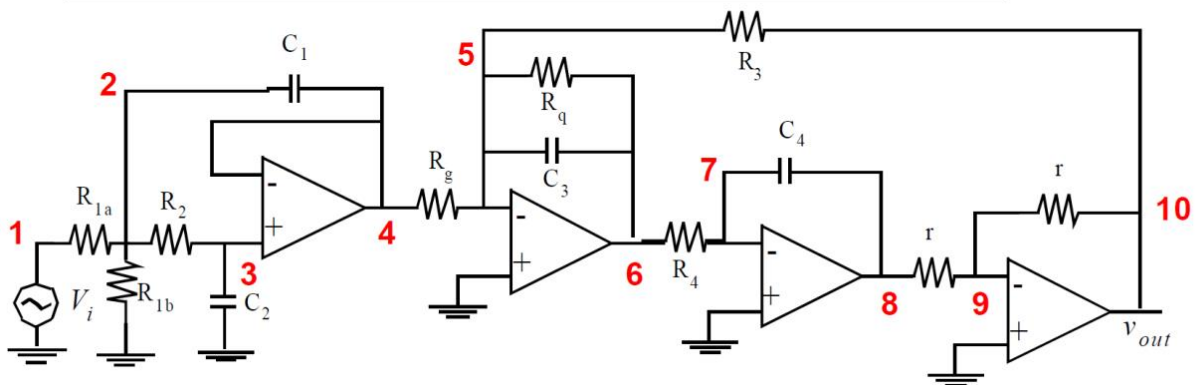


HSPICE Plot for Test 3



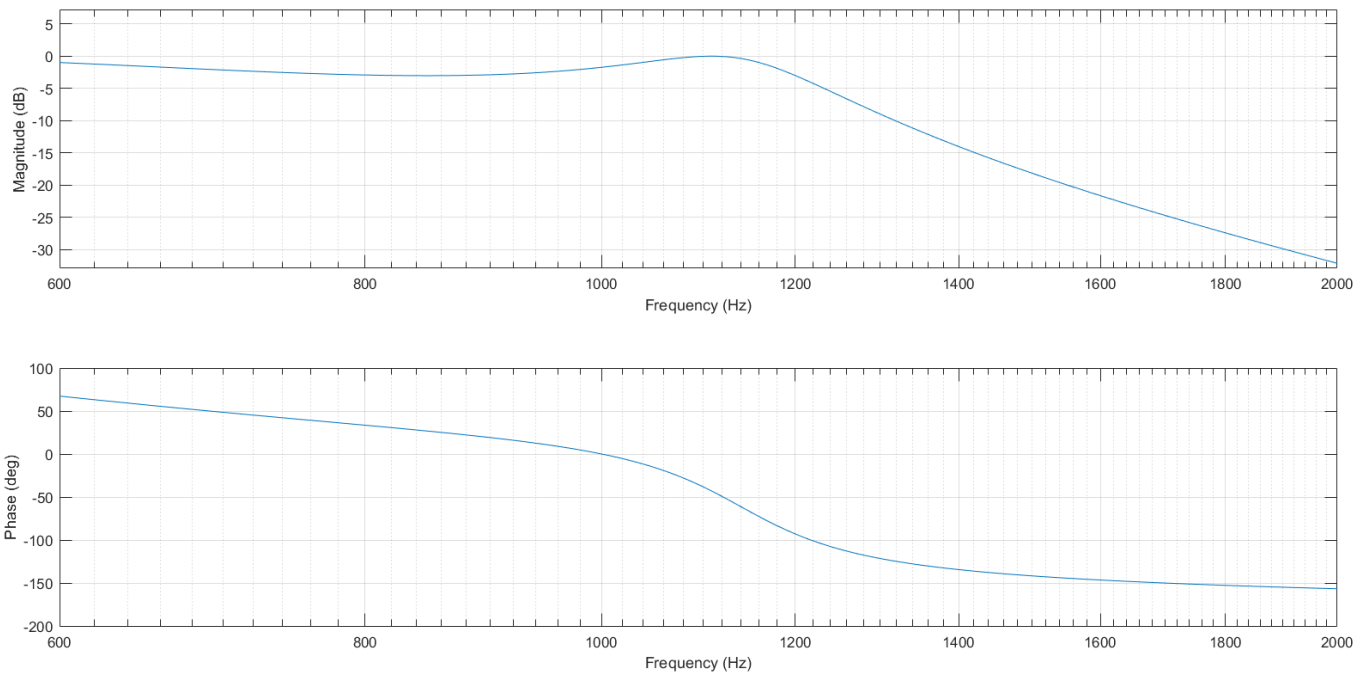
Test 4

$R_{1a} = 9,606\Omega$	$C_3 = C_4 = 15\text{nF}$	$V_i = 1\text{V}$
$R_{1b} = 23,280\Omega$	$R_3 = R_4 = 9,304\Omega$	
$R_2 = 6.8\text{K}\Omega$	$R_q = 52,107\Omega$	Gain of all OpAmps = 50,000
$C_1 = 94.9\text{nF}$	$R_g = 9,304\Omega$	
$C_2 = 20.5\text{nF}$	$r = 20\text{K}\Omega$	

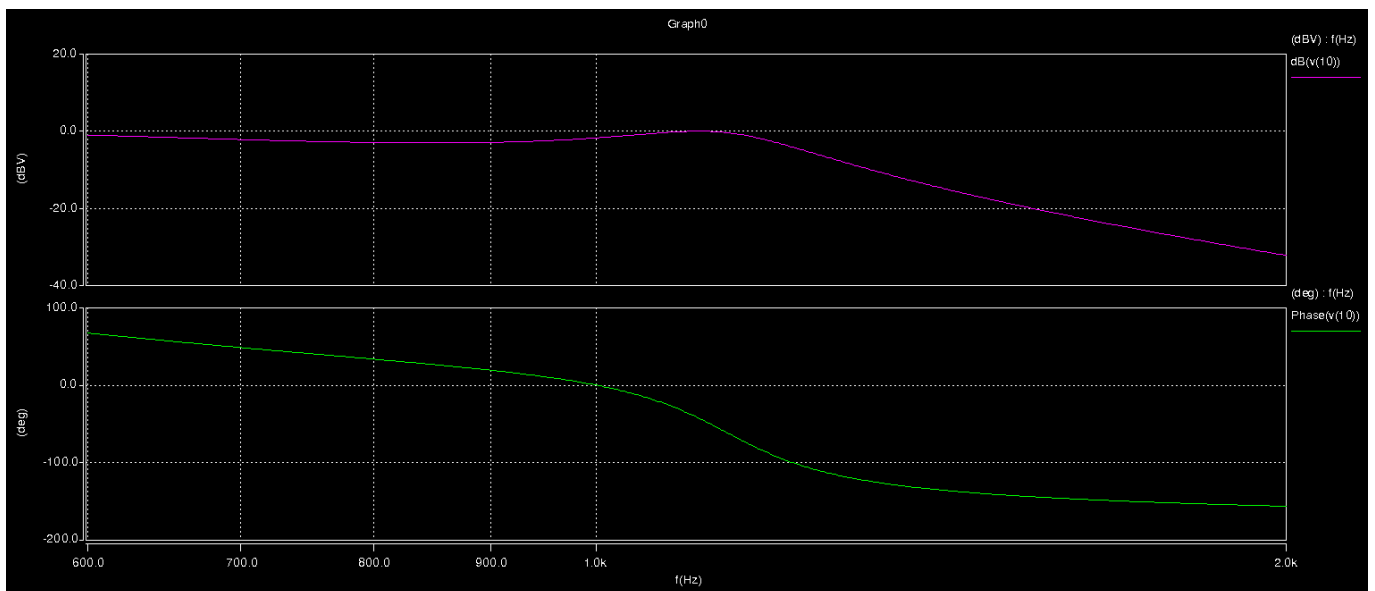


Netlist											
MATLAB						HSPICE					
***Test 4						***Test 4					
Vi	1	0	1			Vi	1	0	ac=1		
R1a	1	2	9606			R1a	1	2	9606		
R1b	2	0	23280			R1b	2	0	23280		
R2	2	3	6.8k			R2	2	3	6.8k		
Rg	4	5	9304			Rg	4	5	9304		
Rq	5	6	52107			Rq	5	6	52107		
R3	5	10	9304			R3	5	10	9304		
R4	6	7	9304			R4	6	7	9304		
r910	8	9	20k			r910	8	9	20k		
r89	9	10	20k			r89	9	10	20k		
C1	2	4	94.9n			C1	2	4	94.9n		
C2	3	0	20.5n			C2	3	0	20.5n		
C3	5	6	15n			C3	5	6	15n		
C4	7	8	15n			C4	7	8	15n		
Ro11	3	4	10meg			Ro11	3	4	10meg		
Ro12	11	4	10			Ro12	11	4	10		
Eo1	11	0	3	4	50k	Eo1	11	0	3	4	50k
Ro21	0	5	10meg			Ro21	0	5	10meg		
Ro22	12	6	10			Ro22	12	6	10		
Eo2	12	0	0	5	50k	Eo2	12	0	0	5	50k
Ro31	0	7	10meg			Ro31	0	7	10meg		
Ro32	13	8	10			Ro32	13	8	10		
Eo3	13	0	0	7	50k	Eo3	13	0	0	7	50k
Ro41	0	9	10meg			Ro41	0	9	10meg		
Ro42	14	10	10			Ro42	14	10	10		
Eo4	14	0	0	9	50k	Eo4	14	0	0	9	50k
.	600	2k	1	10		.ac	dec	1000	600	2k	
						.end					

MATLAB Plot for Test 4



HSPICE Plot for Test 4



As you see there is no difference between the plots generated by custom MATLAB program and HSPICE,
So the program works correctly.