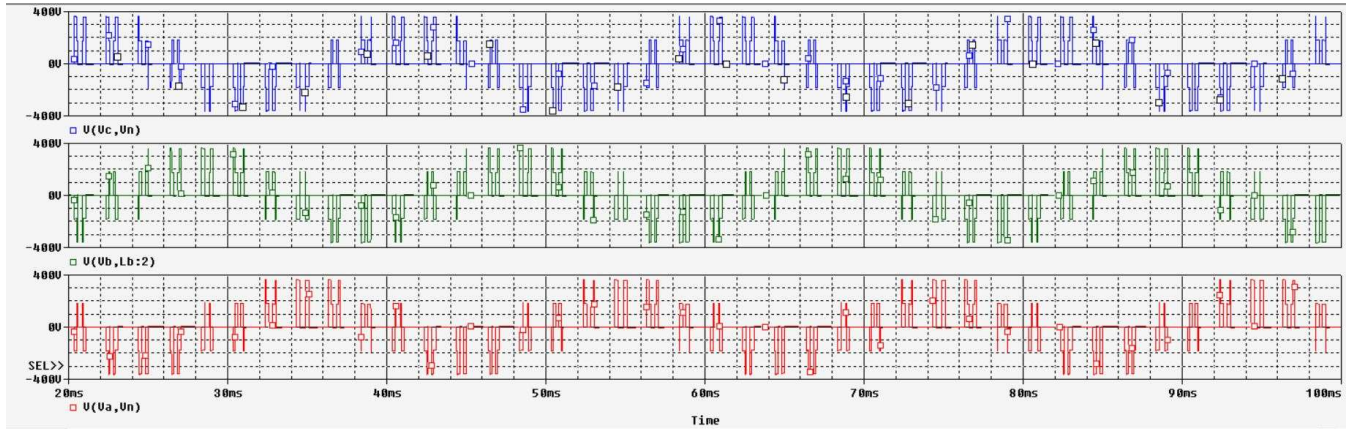
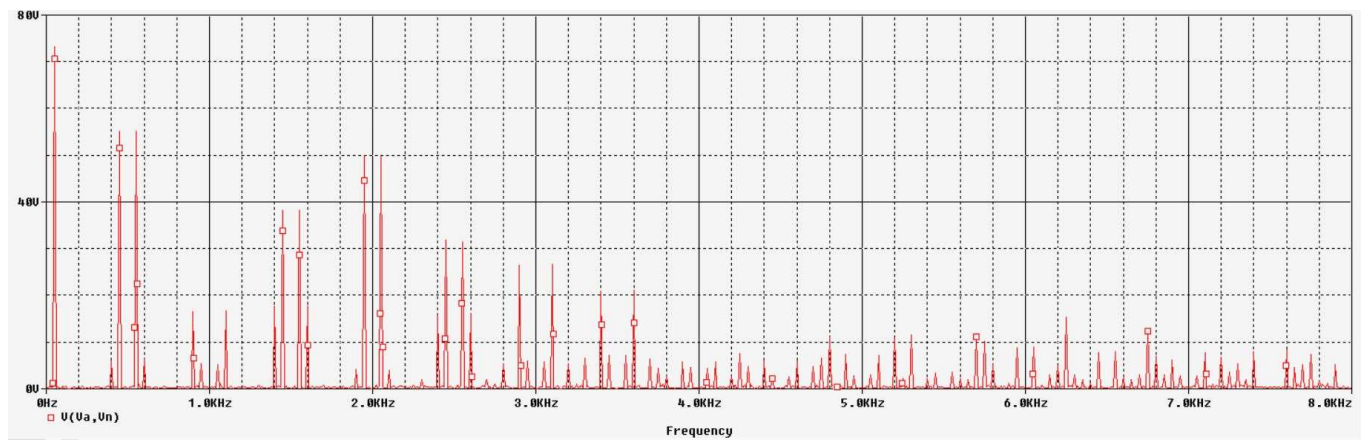


## **Anexo**

- mf=10      ma=0.6



Tensión de fase en la carga



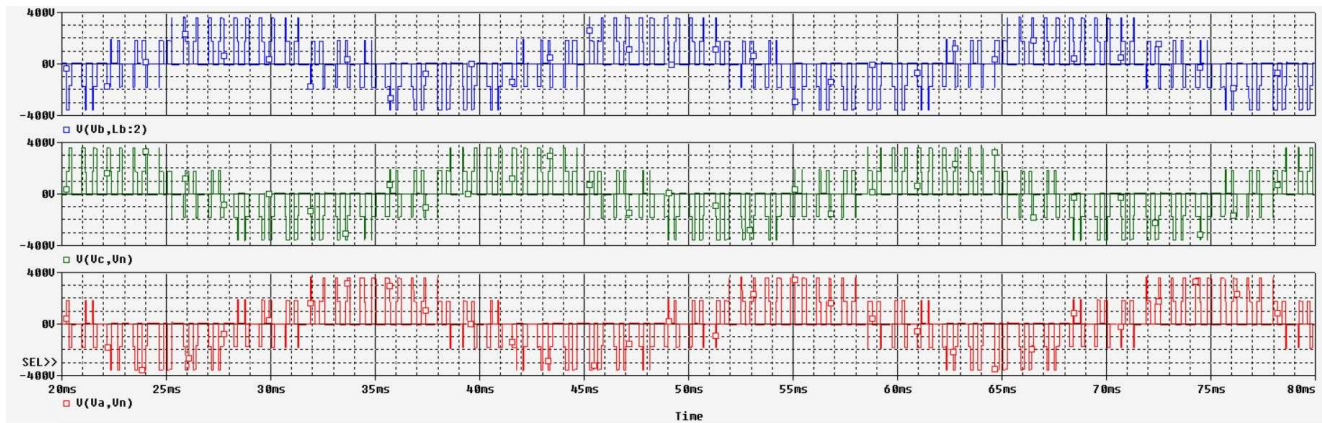
DC COMPONENT =  $-5.439312E+00$

HARMONIC NO	FREQUENCY (HZ)	FOURIER COMPONENT	NORMALIZED COMPONENT	PHASE (DEG)	NORMALIZED PHASE (DEG)
1	$5.000E+01$	$7.634E+01$	$1.000E+00$	$-1.773E+02$	$0.000E+00$
2	$1.000E+02$	$1.581E+01$	$2.071E-01$	$-5.274E+01$	$3.018E+02$
3	$1.500E+02$	$7.281E+00$	$9.538E-02$	$-1.128E+01$	$5.205E+02$
4	$2.000E+02$	$2.211E+01$	$2.896E-01$	$-9.880E+01$	$6.102E+02$
5	$2.500E+02$	$9.413E+00$	$1.233E-01$	$2.319E+01$	$9.095E+02$
6	$3.000E+02$	$1.441E+01$	$1.887E-01$	$1.513E+02$	$1.215E+03$
7	$3.500E+02$	$6.407E+00$	$8.392E-02$	$1.160E+01$	$1.252E+03$
8	$4.000E+02$	$1.472E+01$	$1.928E-01$	$7.668E+01$	$1.495E+03$
9	$4.500E+02$	$5.559E+01$	$7.281E-01$	$-1.224E+02$	$1.473E+03$
10	$5.000E+02$	$9.069E+00$	$1.188E-01$	$1.122E+02$	$1.885E+03$
11	$5.500E+02$	$5.224E+01$	$6.842E-01$	$6.090E+01$	$2.011E+03$
12	$6.000E+02$	$5.351E+00$	$7.010E-02$	$-7.626E+01$	$2.051E+03$
13	$6.500E+02$	$9.424E+00$	$1.234E-01$	$1.636E+02$	$2.468E+03$
14	$7.000E+02$	$1.576E+01$	$2.065E-01$	$1.247E+02$	$2.606E+03$
15	$7.500E+02$	$1.872E+00$	$2.452E-02$	$1.400E+02$	$2.799E+03$
16	$8.000E+02$	$4.270E+00$	$5.593E-02$	$1.481E+02$	$2.984E+03$
17	$8.500E+02$	$4.823E+00$	$6.317E-02$	$1.628E+02$	$3.176E+03$
18	$9.000E+02$	$2.052E+01$	$2.688E-01$	$-1.204E+02$	$3.070E+03$
19	$9.500E+02$	$9.613E+00$	$1.259E-01$	$-1.494E+02$	$3.219E+03$
20	$1.000E+03$	$4.855E+00$	$6.360E-02$	$-6.392E+01$	$3.481E+03$

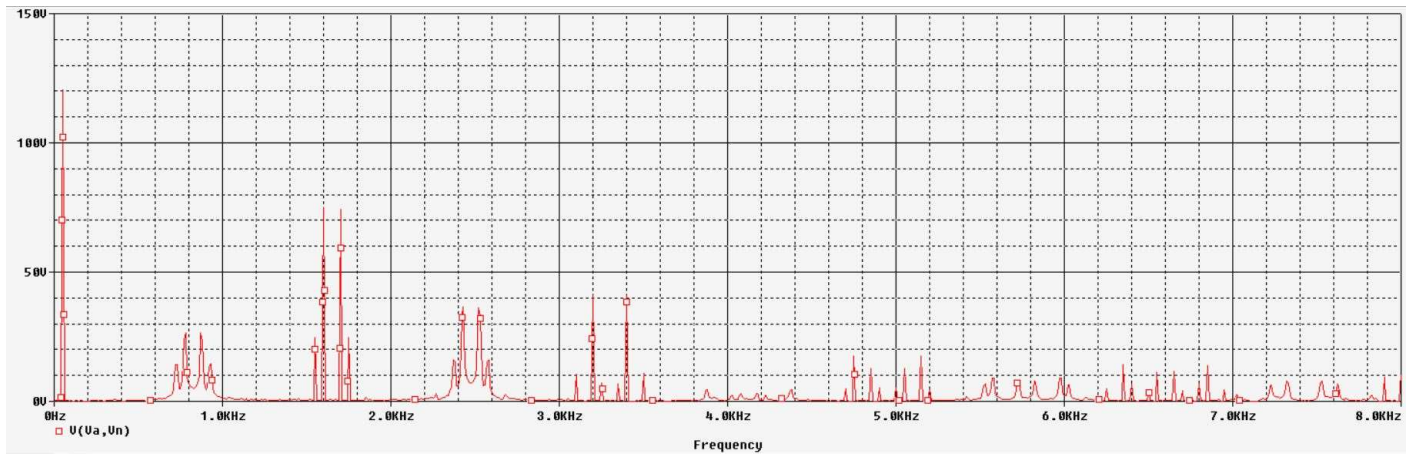
TOTAL HARMONIC DISTORTION =  $1.185735E+02$  PERCENT

Distorsión armónica total (THD)

- mf=16.5    ma=0.6



Tensión de fase en la carga



Espectro de frecuencia

DC COMPONENT = 5.477748E+00

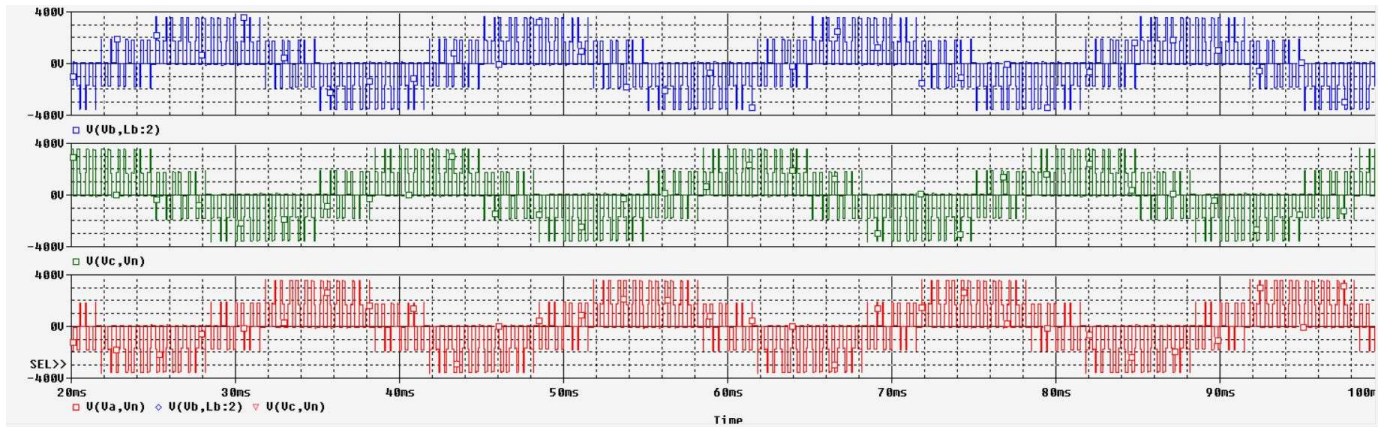
HARMONIC NO	FREQUENCY (HZ)	FOURIER COMPONENT	NORMALIZED COMPONENT	PHASE (DEG)	NORMALIZED PHASE (DEG)
1	5.000E+01	1.266E+02	1.000E+00	-1.756E+02	0.000E+00
2	1.000E+02	1.656E+01	1.308E-01	-1.651E+02	1.861E+02
3	1.500E+02	2.849E+01	2.250E-01	-1.018E+02	4.250E+02
4	2.000E+02	3.426E+00	2.705E-02	-5.682E+01	6.456E+02
5	2.500E+02	2.459E+01	1.942E-01	-8.641E+01	7.916E+02
6	3.000E+02	1.452E+01	1.147E-01	-9.101E+00	1.044E+03
7	3.500E+02	9.154E+00	7.229E-02	-4.121E+01	1.188E+03
8	4.000E+02	1.088E+01	8.594E-02	-1.522E+02	1.253E+03
9	4.500E+02	7.699E+00	6.080E-02	-3.573E+01	1.545E+03
10	5.000E+02	9.364E+00	7.395E-02	7.124E+01	1.827E+03
11	5.500E+02	1.377E+01	1.087E-01	1.015E+02	2.033E+03
12	6.000E+02	9.604E+00	7.584E-02	6.817E+00	2.114E+03
13	6.500E+02	1.430E+01	1.129E-01	-5.188E+01	2.231E+03
14	7.000E+02	9.657E+00	7.626E-02	-8.247E+01	2.376E+03
15	7.500E+02	3.029E+01	2.392E-01	-1.368E+02	2.497E+03
16	8.000E+02	2.572E+01	2.031E-01	7.546E+01	2.885E+03
17	8.500E+02	4.199E+01	3.315E-01	4.993E+01	3.035E+03
18	9.000E+02	2.841E+01	2.244E-01	-8.528E+01	3.075E+03
19	9.500E+02	2.832E+01	2.236E-01	1.223E+02	3.459E+03
20	1.000E+03	6.440E+00	5.085E-02	-1.026E+02	3.409E+03

TOTAL HARMONIC DISTORTION = 6.989254E+01 PERCENT

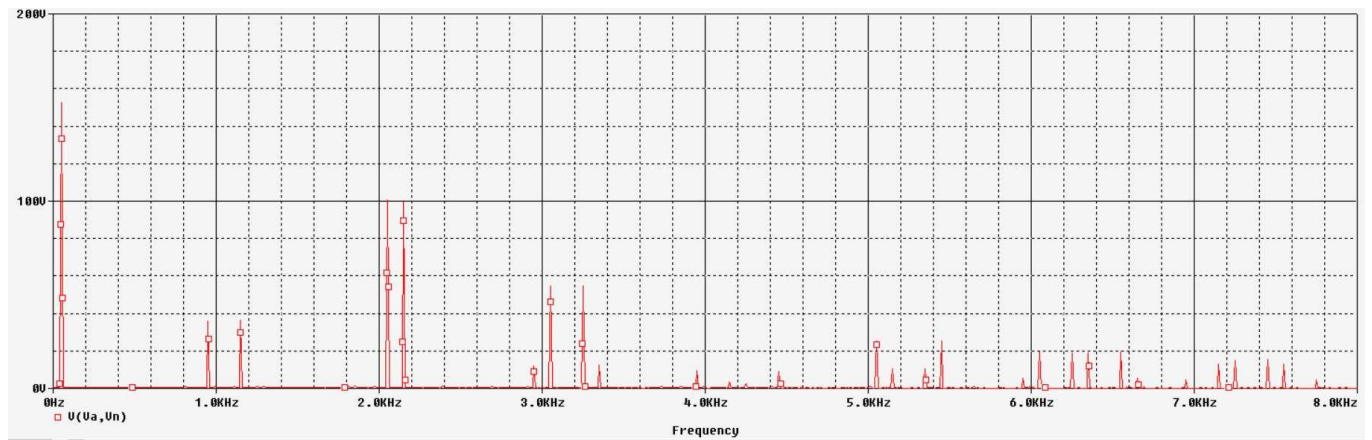
Distorsión armónica total (THD)



- mf=21      ma=0.6



Tensión de fase en la carga



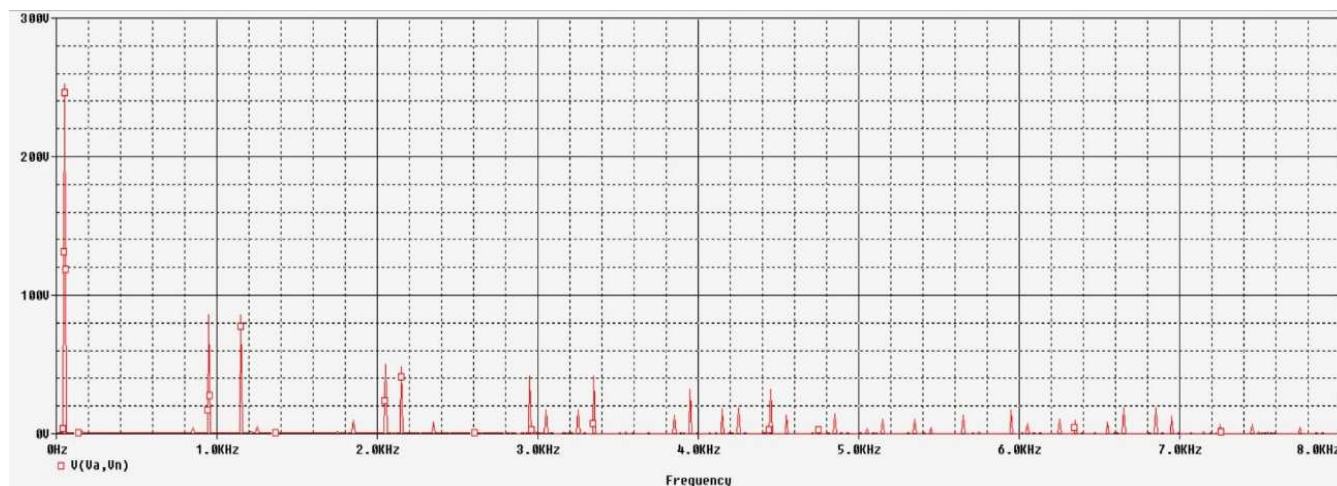
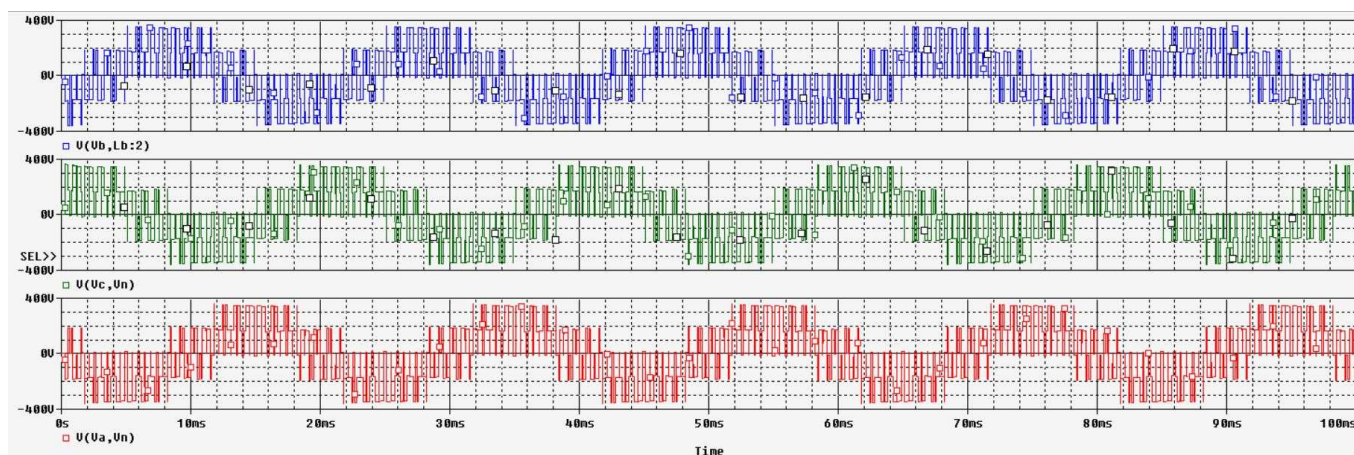
DC COMPONENT = 1.264555E-03

HARMONIC NO	FREQUENCY (HZ)	FOURIER COMPONENT	NORMALIZED COMPONENT	PHASE (DEG)	NORMALIZED PHASE (DEG)
1	5.000E+01	1.683E+02	1.000E+00	-1.765E+02	0.000E+00
2	1.000E+02	3.324E-03	1.976E-05	-8.075E+01	2.723E+02
3	1.500E+02	1.057E+01	6.283E-02	-4.326E+01	4.864E+02
4	2.000E+02	4.119E-03	2.448E-05	6.282E+01	7.690E+02
5	2.500E+02	1.694E+01	1.007E-01	-1.545E+02	7.282E+02
6	3.000E+02	2.791E-03	1.659E-05	-9.593E+01	9.634E+02
7	3.500E+02	1.750E+01	1.040E-01	-1.546E+02	1.081E+03
8	4.000E+02	7.538E-04	4.480E-06	1.705E+02	1.583E+03
9	4.500E+02	1.450E+01	8.617E-02	-1.502E+02	1.439E+03
10	5.000E+02	2.505E-03	1.489E-05	-8.314E+01	1.682E+03
11	5.500E+02	1.157E+01	6.876E-02	-1.416E+02	1.800E+03
12	6.000E+02	3.566E-04	2.120E-06	-8.903E+01	2.030E+03
13	6.500E+02	9.489E+00	5.639E-02	-4.973E+01	2.245E+03
14	7.000E+02	1.056E-03	6.278E-06	-1.193E+02	2.352E+03
15	7.500E+02	8.180E+00	4.862E-02	-6.695E+01	2.581E+03
16	8.000E+02	8.337E-04	4.955E-06	1.418E+02	2.967E+03
17	8.500E+02	1.525E+01	9.063E-02	-1.497E+02	2.852E+03
18	9.000E+02	1.541E-03	9.161E-06	-7.169E+01	3.106E+03
19	9.500E+02	2.662E+01	1.582E-01	-1.612E+02	3.193E+03
20	1.000E+03	3.817E-03	2.269E-05	-1.645E+02	3.366E+03

TOTAL HARMONIC DISTORTION = 2.753844E+01 PERCENT

Distorsión armónica total (THD)

- mf=21      ma=1



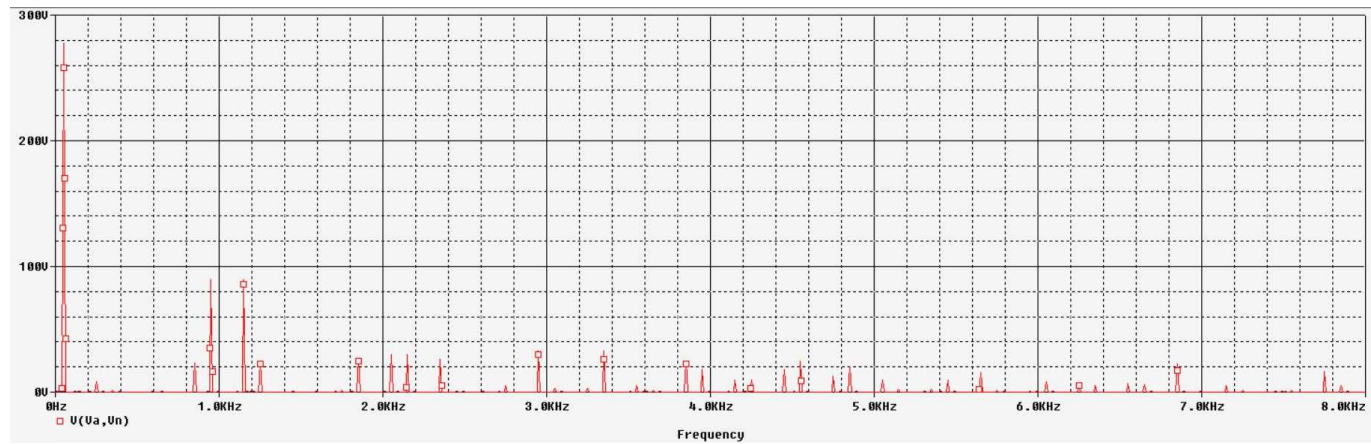
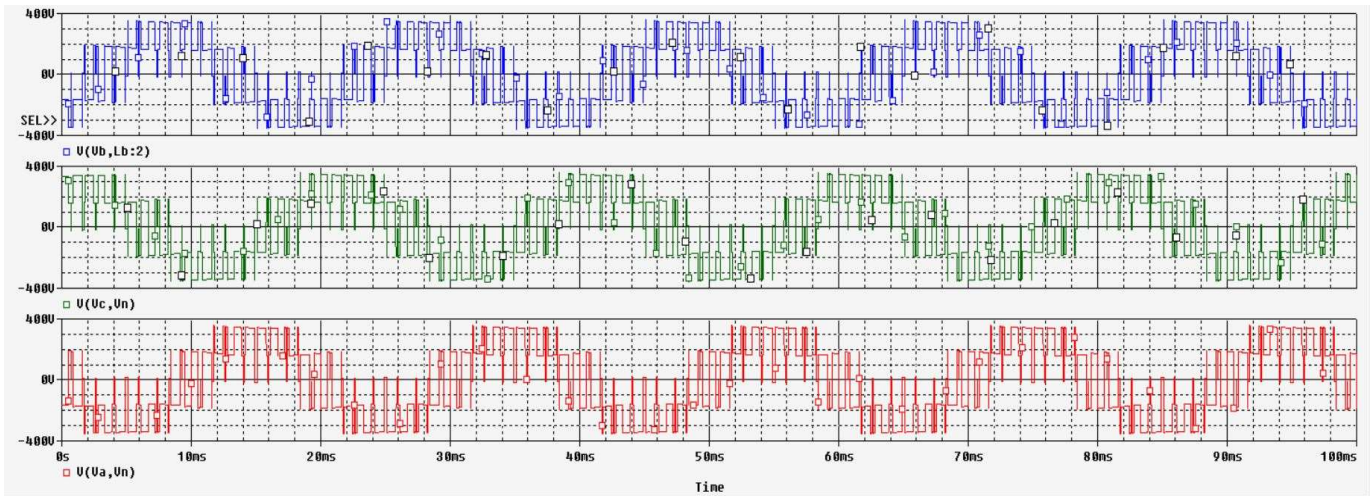
DC COMPONENT =  $-2.797762\text{E}+00$

HARMONIC NO	FREQUENCY (HZ)	FOURIER COMPONENT	NORMALIZED COMPONENT	PHASE (DEG)	NORMALIZED PHASE (DEG)
1	5.000E+01	2.546E+02	1.000E+00	-1.785E+02	0.000E+00
2	1.000E+02	5.594E+00	2.197E-02	-8.998E+01	2.669E+02
3	1.500E+02	1.032E+01	4.052E-02	-9.229E+00	5.261E+02
4	2.000E+02	5.595E+00	2.197E-02	-9.001E+01	6.238E+02
5	2.500E+02	1.367E+01	5.367E-02	-6.389E+00	8.859E+02
6	3.000E+02	5.594E+00	2.197E-02	-9.000E+01	9.807E+02
7	3.500E+02	1.560E+00	6.125E-03	-1.109E+02	1.138E+03
8	4.000E+02	5.593E+00	2.197E-02	-9.000E+01	1.338E+03
9	4.500E+02	1.359E+01	5.336E-02	-6.891E+00	1.599E+03
10	5.000E+02	5.592E+00	2.196E-02	-8.998E+01	1.695E+03
11	5.500E+02	3.358E+01	1.319E-01	-3.378E+00	1.960E+03
12	6.000E+02	5.594E+00	2.197E-02	-8.997E+01	2.051E+03
13	6.500E+02	2.634E+01	1.034E-01	-1.766E+02	2.143E+03
14	7.000E+02	5.595E+00	2.197E-02	-8.997E+01	2.408E+03
15	7.500E+02	8.507E+00	3.341E-02	-1.705E+02	2.506E+03
16	8.000E+02	5.597E+00	2.198E-02	-8.998E+01	2.765E+03
17	8.500E+02	5.798E+00	2.277E-02	-1.570E+02	2.877E+03
18	9.000E+02	5.597E+00	2.198E-02	-8.999E+01	3.122E+03
19	9.500E+02	9.001E+01	3.535E-01	-1.778E+02	3.213E+03
20	1.000E+03	5.597E+00	2.198E-02	-9.003E+01	3.479E+03

TOTAL HARMONIC DISTORTION =  $4.085614\text{E}+01$  PERCENT



- mf=21      ma=1.2



DC COMPONENT =  $-2.886042E-04$

HARMONIC NO	FREQUENCY (HZ)	FOURIER COMPONENT	NORMALIZED COMPONENT	PHASE (DEG)	NORMALIZED PHASE (DEG)
1	5.000E+01	2.662E+02	1.000E+00	-1.772E+02	0.000E+00
2	1.000E+02	8.391E-03	3.152E-05	4.337E+01	3.978E+02
3	1.500E+02	1.995E+01	7.495E-02	-2.187E+01	5.098E+02
4	2.000E+02	3.625E-03	1.362E-05	-9.166E+01	6.172E+02
5	2.500E+02	1.489E+01	5.595E-02	-2.651E+01	8.596E+02
6	3.000E+02	1.387E-03	5.211E-06	7.232E+01	1.136E+03
7	3.500E+02	1.142E+01	4.290E-02	-1.409E+02	1.100E+03
8	4.000E+02	2.548E-03	9.572E-06	-5.825E+01	1.360E+03
9	4.500E+02	2.792E+01	1.049E-01	-1.495E+01	1.580E+03
10	5.000E+02	3.029E-03	1.138E-05	-3.470E+01	1.738E+03
11	5.500E+02	2.130E+01	7.999E-02	-2.063E+01	1.929E+03
12	6.000E+02	1.871E-03	7.028E-06	-4.344E+01	2.083E+03
13	6.500E+02	1.923E+01	7.225E-02	-1.579E+02	2.146E+03
14	7.000E+02	2.605E-03	9.786E-06	-4.956E+01	2.432E+03
15	7.500E+02	1.078E+01	4.050E-02	-1.407E+02	2.518E+03
16	8.000E+02	2.995E-03	1.125E-05	-5.750E+01	2.778E+03
17	8.500E+02	1.602E+01	6.018E-02	-1.491E+02	2.864E+03
18	9.000E+02	2.471E-03	9.281E-06	-7.129E+01	3.119E+03
19	9.500E+02	7.686E+01	2.887E-01	-1.731E+02	3.194E+03
20	1.000E+03	3.828E-03	1.438E-05	-9.287E+01	3.452E+03

TOTAL HARMONIC DISTORTION =  $3.490222E+01$  PERCENT