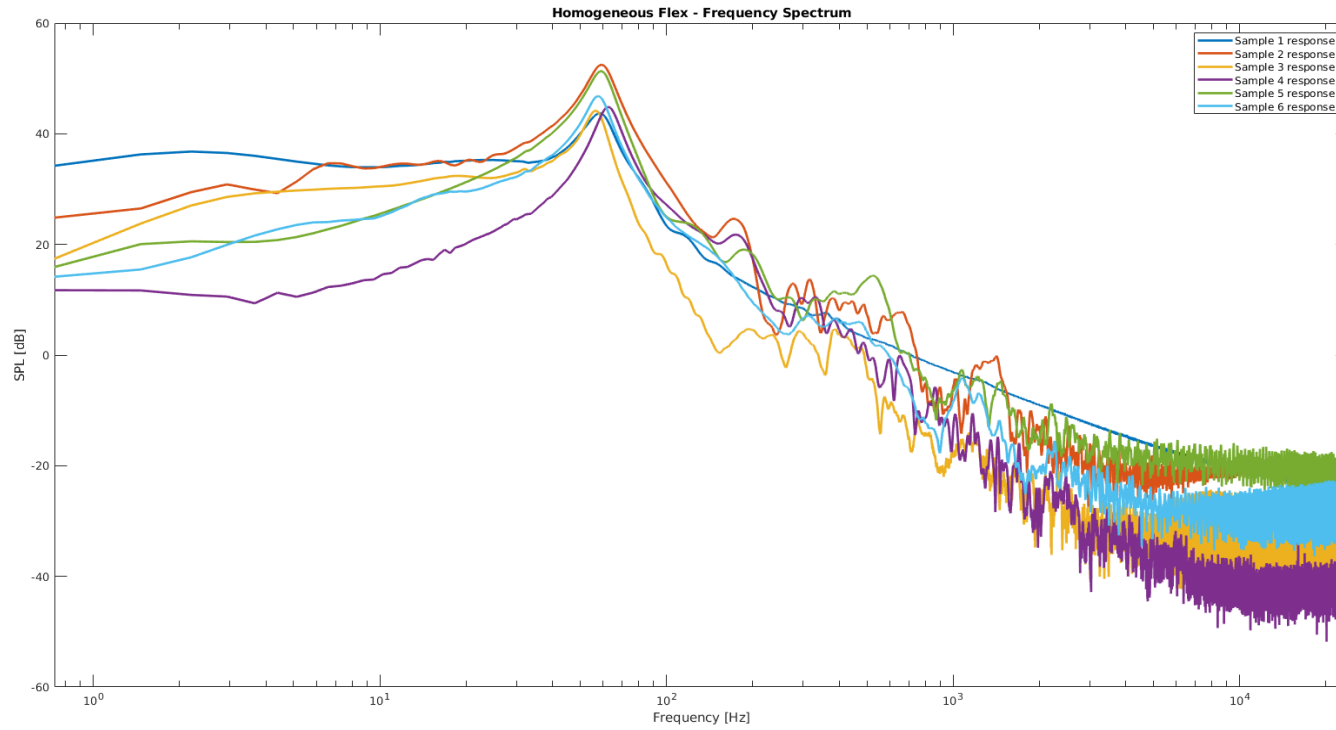


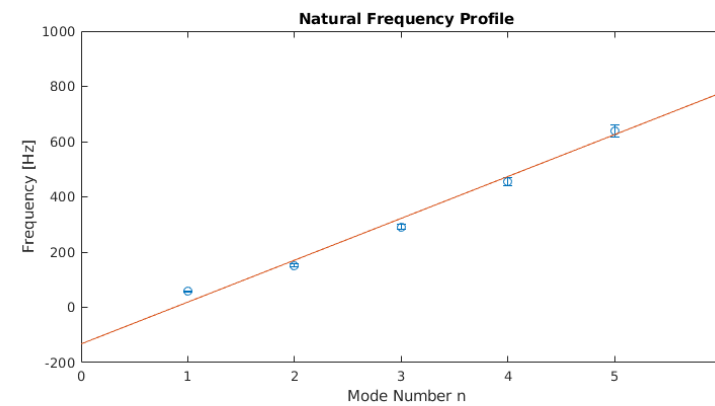
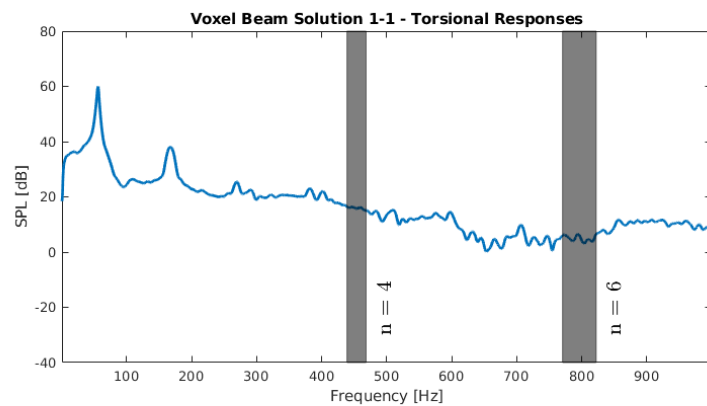
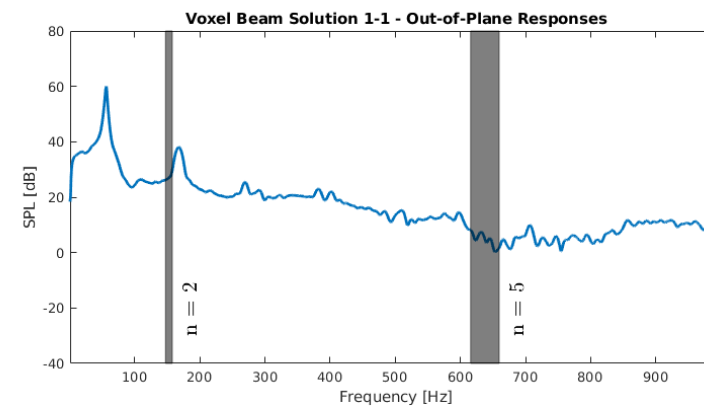
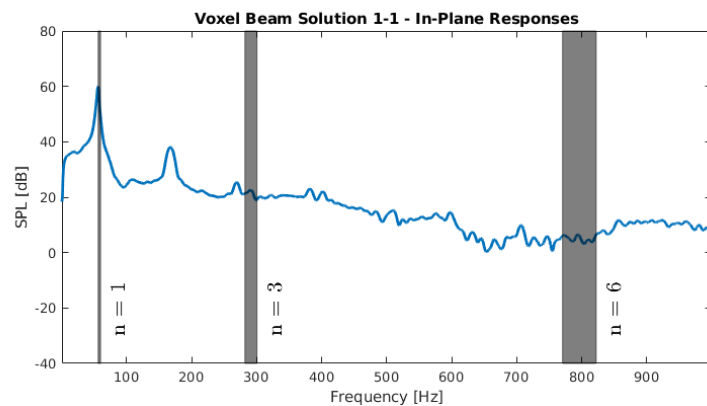
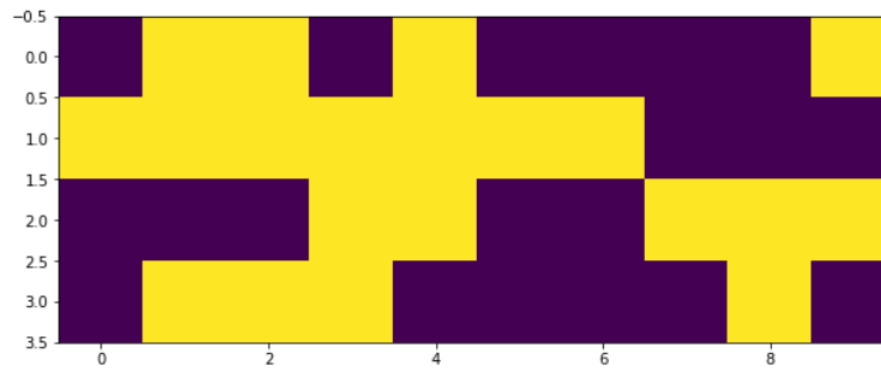
Sample No.	L[mm]	ΔL [mm]	t[mm]	Δt [mm]	w[mm]	Δw [mm]	V[mm ³]	ΔV [mm ³]	m[grams]	ρ [kg/m ³]	$\Delta \rho$ [kg/m ³]
1	80.4	0.1	4.0	0.1	20.3	0.1	8152.5	254.1	23.8	2919.4	91.0
2	80.1	0.1	4.0	0.0	19.9	0.1	7968.0	50.0	23.8	2987.0	18.7
3	80.1	0.1	4.1	0.1	20.1	0.1	8209.0	251.3	23.9	2911.4	89.1
4	80.0	0.1	3.9	0.1	20.1	0.1	7879.2	251.1	23.5	2982.5	95.0
5	80.0	0.1	3.9	0.1	20.2	0.2	7918.4	291.3	23.6	2980.4	109.7
6	80.0	0.1	3.8	0.1	20.2	0.1	7756.8	252.2	23.5	3029.6	98.5
Average	80.1	0.1	4.0	0.1	20.1	0.1	7980.6	225.0	23.7	2968.4	83.7

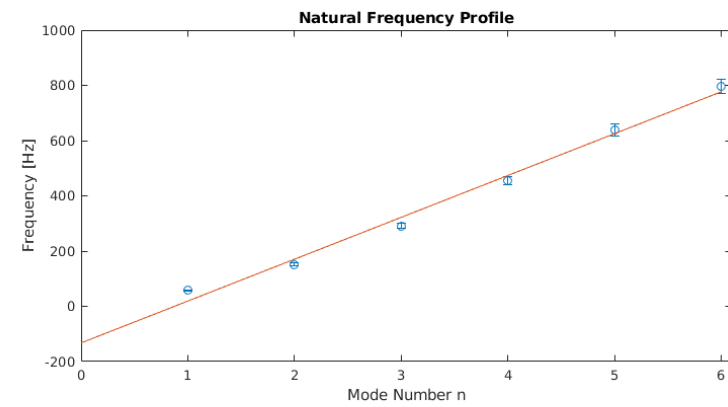
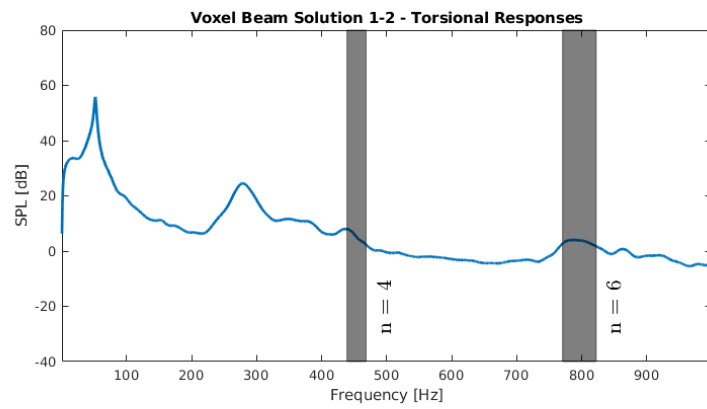
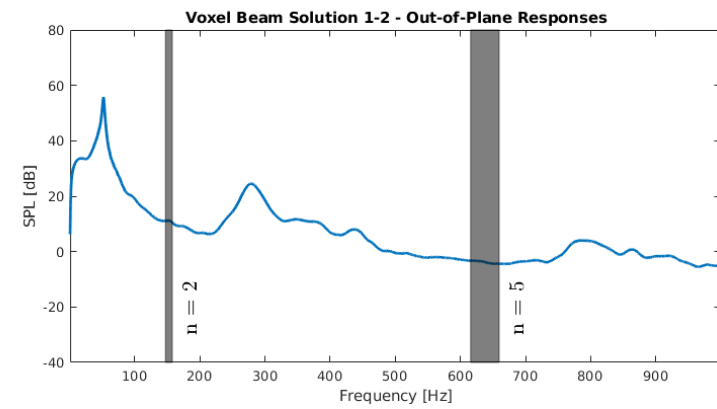
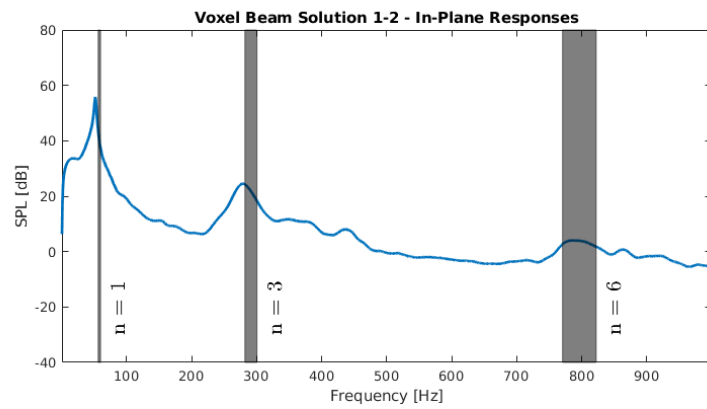
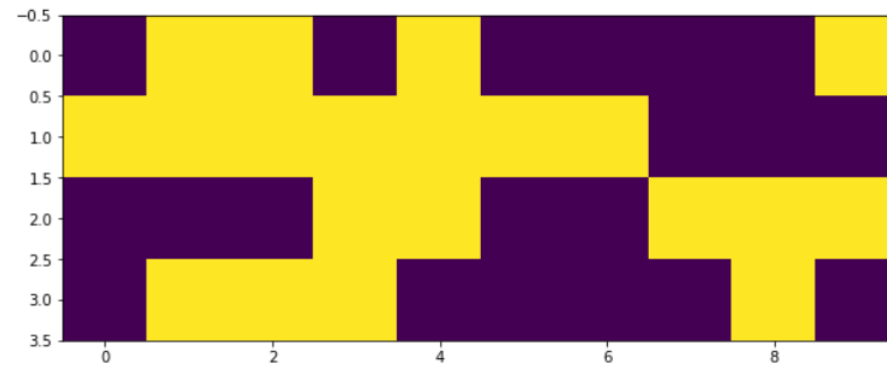
Sample No.	f1 [Hz]	$\Delta f1$ [Hz]	%f1[Hz]	Measured E[GPa]	ΔE [GPa]	%E
1	194.82	1.95	0.99%	3.83	0.08	2.02%
2	205.81	9.03	4.59%	4.28	0.37	9.34%
3	194.09	2.69	1.36%	3.80	0.11	2.76%
4	195.56	1.22	0.62%	3.86	0.05	1.28%
5	192.63	4.15	2.11%	3.75	0.17	4.22%
6	197.75	0.98	0.50%	3.95	0.04	0.95%
Average	196.78	3.34	1.70%	3.91	0.13	3.43%

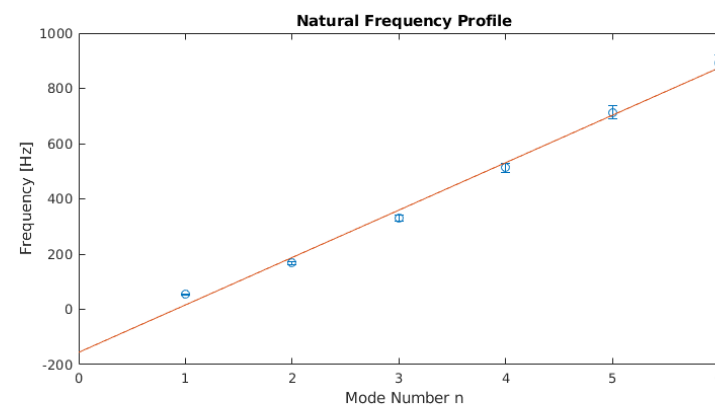
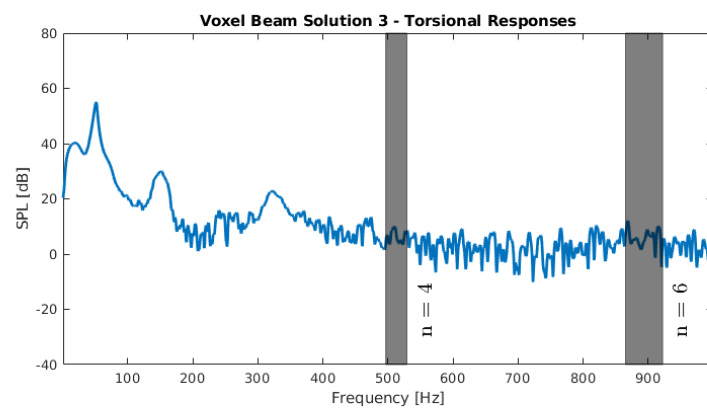
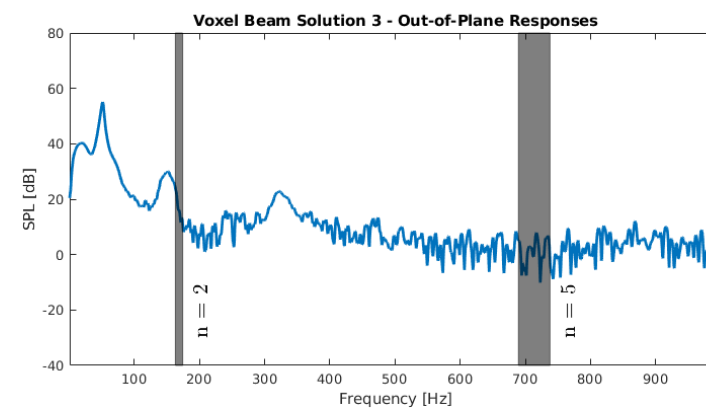
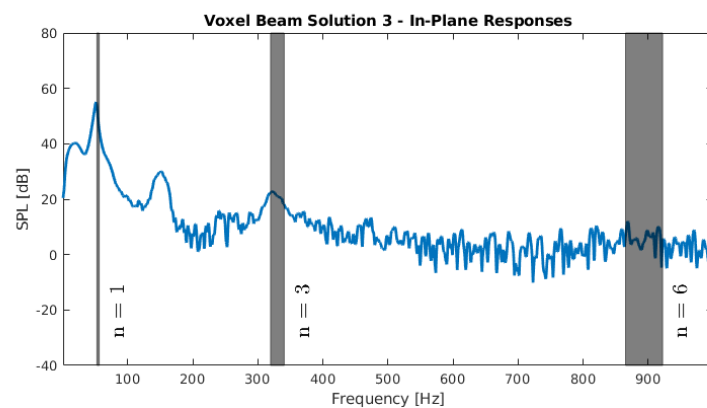
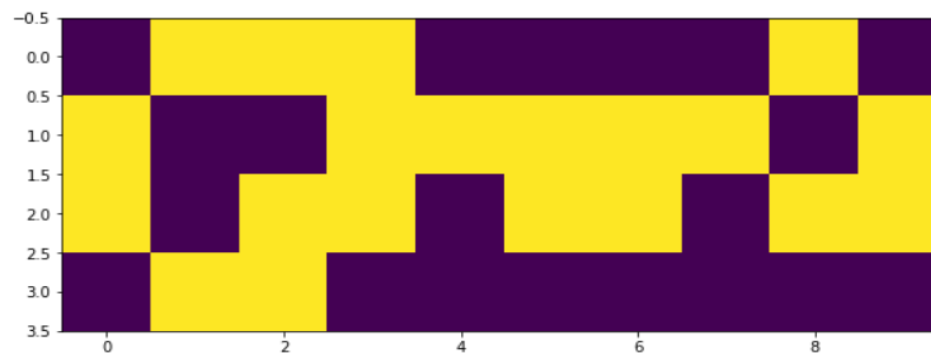


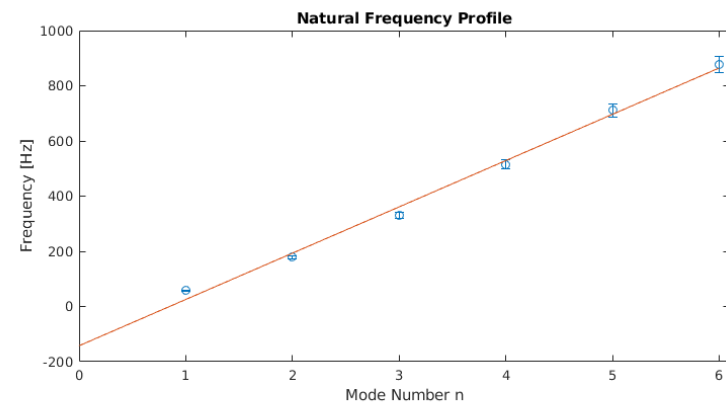
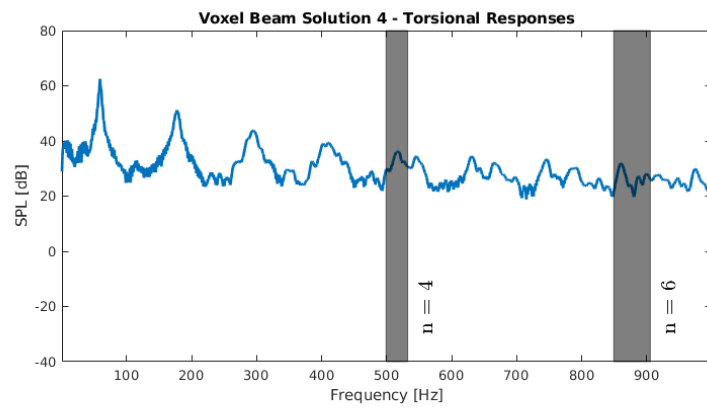
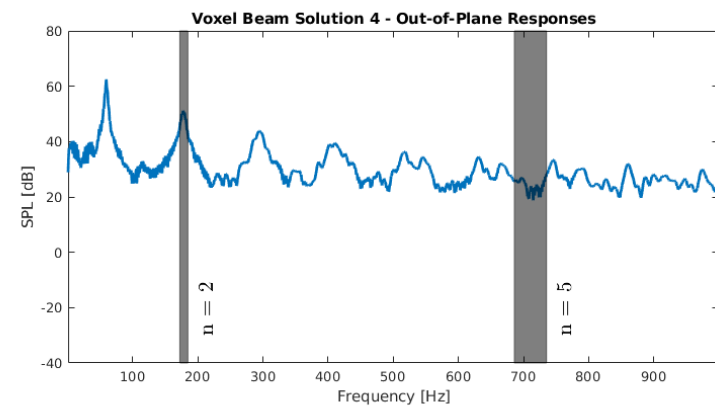
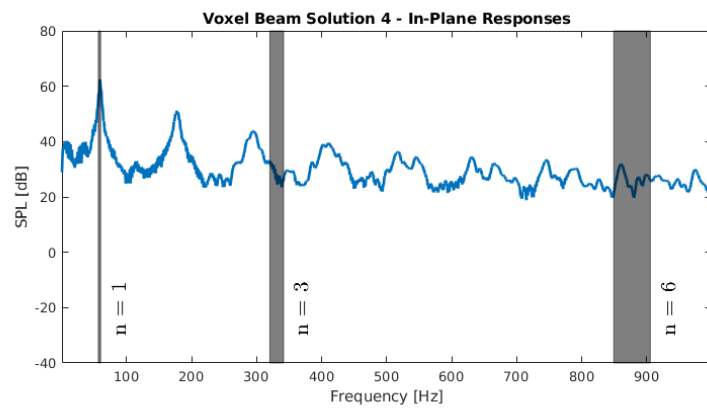
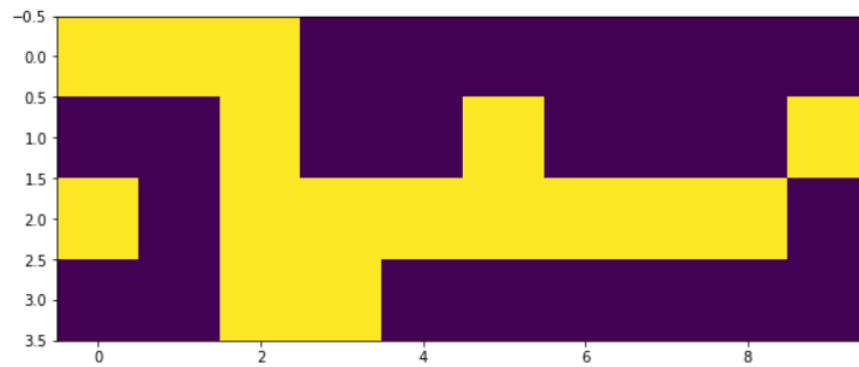
Sample No.	L[mm]	ΔL [mm]	t[mm]	Δt [mm]	w[mm]	Δw [mm]	V[mm ³]	ΔV [mm ³]	m[grams]	ρ [kg/m ³]	$\Delta \rho$ [kg/m ³]
1	79.2	0.1	3.8	0.1	19.7	0.0	7504.9	207.0	8.6	1145.9	31.6
2	78.8	0.1	3.8	0.1	19.6	0.1	7437.0	243.1	8.6	1156.4	37.8
3	79.0	0.2	3.9	0.0	19.5	0.2	7568.0	96.8	8.6	1136.4	14.5
4	78.8	0.0	3.8	0.1	19.6	0.0	7437.0	195.7	8.7	1169.8	30.8
5	78.8	0.1	3.9	0.1	19.6	0.1	7591.5	243.0	8.6	1132.9	36.3
6	79.0	0.1	3.8	0.1	19.5	0.1	7413.9	242.5	8.5	1146.5	37.5
Average	78.9	0.1	3.8	0.1	19.6	0.1	7492.0	204.7	8.6	1148.0	31.4

Sample No.	f1 [Hz]	$\Delta f1$ [Hz]	%f1[Hz]	Measured E[MPa]	ΔE [MPa]	%E
1	58.59	0.37	0.63%	123.50	1.66	1.33%
2	59.33	0.37	0.63%	126.61	1.44	1.15%
3	56.40	2.56	4.43%	114.41	10.75	8.59%
4	62.26	3.30	5.70%	139.42	14.26	11.39%
5	59.33	0.37	0.63%	126.61	1.44	1.15%
6	57.86	1.10	1.90%	120.43	4.73	3.78%
Average	57.86	1.34	2.32%	125.16	5.72	4.57%

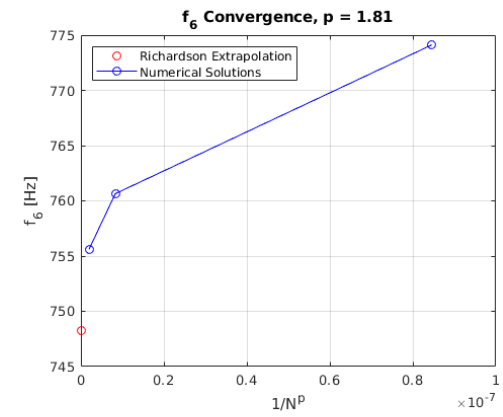
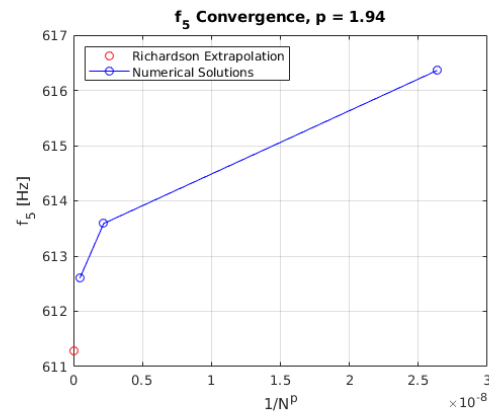
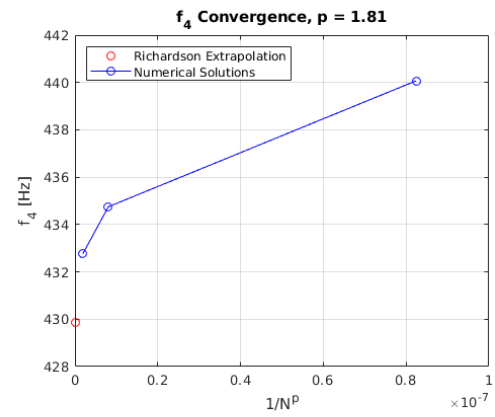
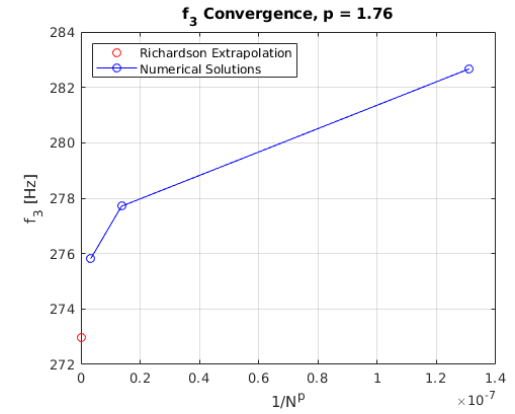
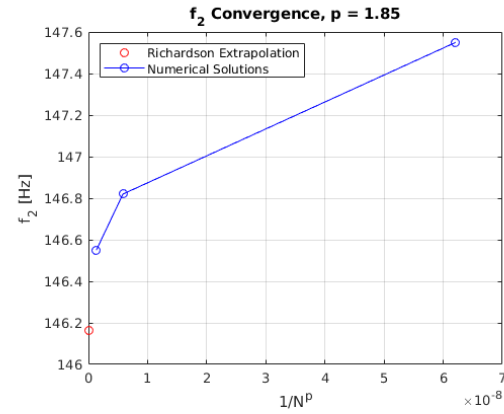
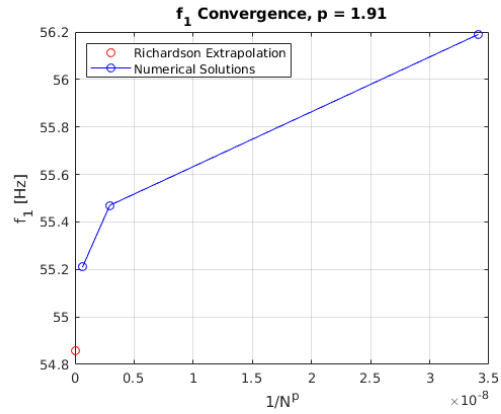




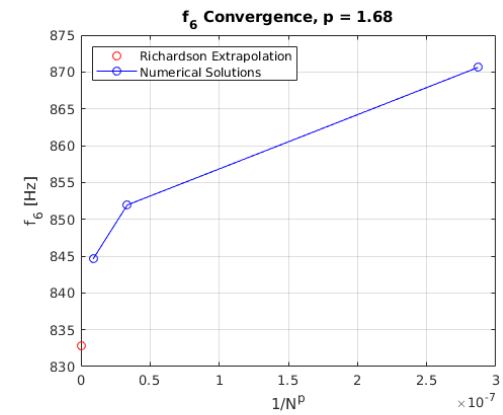
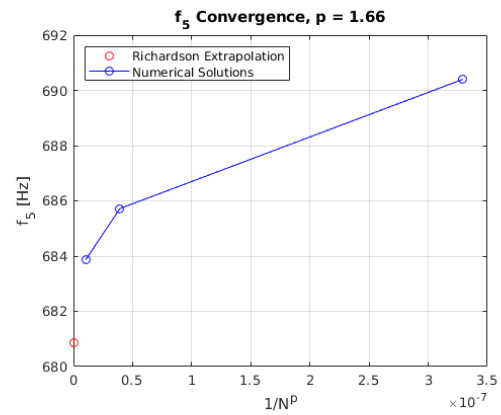
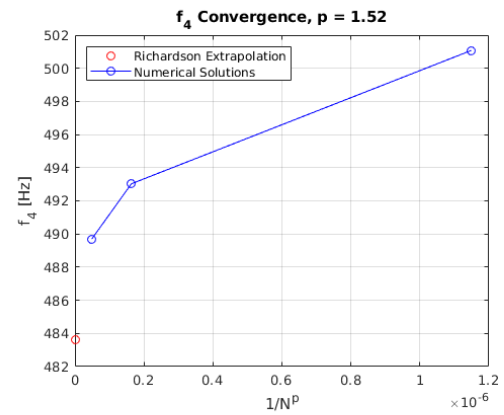
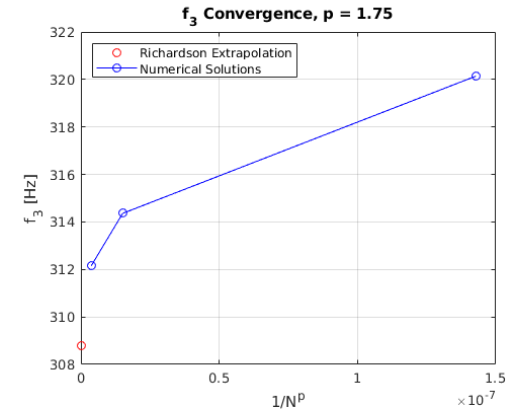
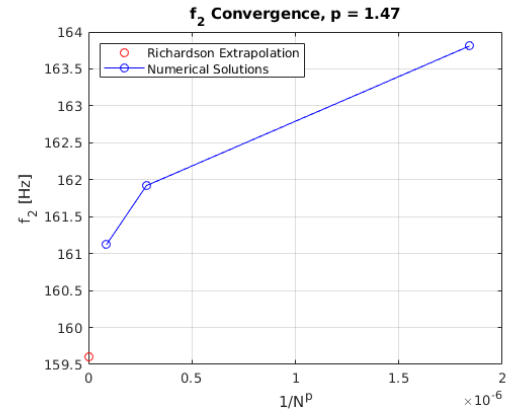
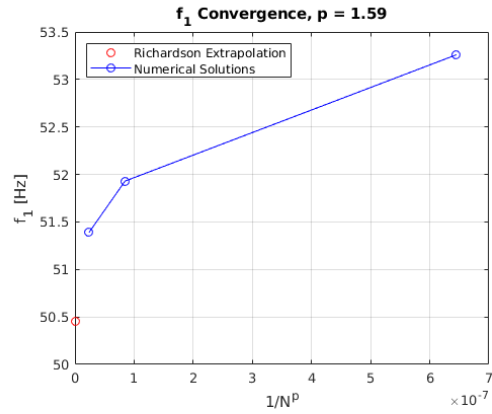




Voxel Beam Solution Number 1 - Mesh Convergence Plots



Voxel Beam Solution Number 3 - Mesh Convergence Plots



Voxel Beam Solution Number 4 - Mesh Convergence Plots

