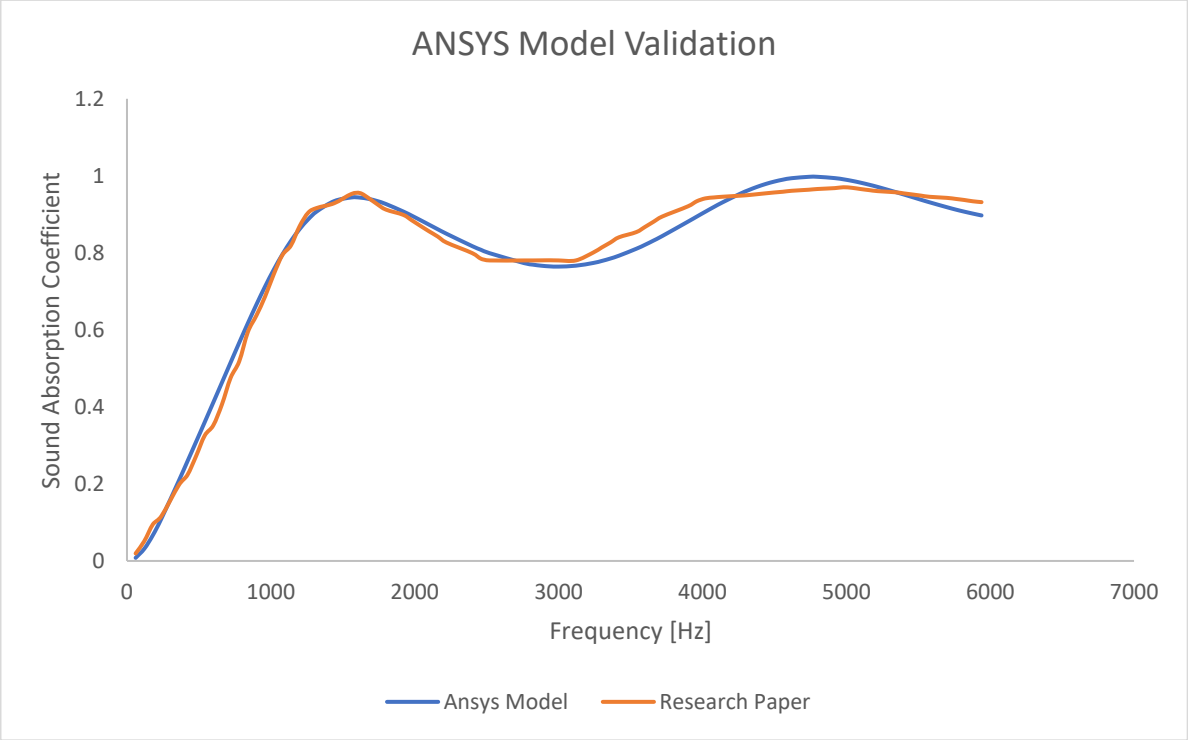
From Ansys		From Research Paper #		
Frequency	SAC (y1)	Frequency	SAC (y2)	sq(y1-y2)
60	8.07E-03	67.9812751	0.019461403	0.00013
120	3.14E-02	103.425991	0.051337741	0.000397
180	6.70E-02	197.945234	0.095017345	0.000786
240	0.1105	233.38995	0.116819557	3.99E-05
360	0.20799	369.261361	0.196698352	0.000128
420	0.25841	410.61353	0.223199317	0.00124
480	0.30915	481.502962	0.272066344	0.001375
540	0.36019	552.392394	0.325444174	0.001207
600	0.41158	587.83711	0.352133089	0.003534
660	0.46327	652.819089	0.406450669	0.003228
720	0.51505	723.708521	0.475240407	0.001585
780	0.5665	770.968143	0.518093031	0.002343
840	0.61706	853.67248	0.594212824	0.000522
900	0.66602	900.932102	0.637629298	0.000806
960	0.71262	954.099176	0.686684275	0.000673
1020	0.75611	1024.98861	0.744197008	0.000142
1080	0.79578	1095.87804	0.794191735	2.52E-06
1140	0.83108	1131.32276	0.81937705	0.000137
1200	0.86161	1202.21219	0.869183827	5.74E-05
1260	0.88715	1267.19417	0.904330497	0.000295
1320	0.90766	1338.0836	0.916547254	7.9E-05
1440	0.93424	1408.97303	0.928764011	3E-05
1560	0.94384	1550.7519	0.952821624	8.07E-05
1620	0.94338	1621.64133	0.955077025	0.000137
1680	0.94006	1692.53076	0.941920518	3.46E-06
1740	0.93438	1763.42019	0.926132709	6.8E-05
1800	0.92676	1834.30962	0.912224401	0.000211
1920	0.9074	1905.19906	0.898691994	7.58E-05
1980	0.89637	1976.08849	0.884407786	0.000143
2040	0.88484	2046.97792	0.869935628	0.000222
2100	0.87307	2117.86735	0.85583937	0.000297
2160	0.8613	2188.75678	0.842306962	0.000361
2220	0.84969	2259.64622	0.826895054	0.00052
2400	0.81741	2401.42508	0.799266388	0.000329
2460	0.8079	2472.31451	0.78479423	0.000534
2520	0.79916	2543.20394	0.780283428	0.000356
2760	0.77332	2755.87224	0.780283428	4.85E-05
2820	0.7694	2826.76167	0.780283428	0.000118
2880	0.76656	2897.6511	0.780471378	0.000194
2940	0.76484	2968.54054	0.780659328	0.00025
3000	0.76428	3039.42997	0.780283428	0.000256
3120	0.76662	3110.3194	0.780283428	0.000187
3240	0.77365	3252.09826	0.800582039	0.000725
3300	0.77887	3322.9877	0.813926496	0.001229

3360	0.78522	3393.87713	0.826707104	0.001721
3420	0.79267	3464.76656	0.840427461	0.002281
3540	0.8105	3535.65599	0.853771919	0.001872
3600	0.82078	3606.54542	0.867116376	0.002147
3660	0.83182	3677.43486	0.880648784	0.002384
3720	0.84349	3748.32429	0.894181191	0.00257
3900	0.88112	3890.10315	0.920870106	0.00158
3960	0.89397	3960.99258	0.933838663	0.00159
4020	0.90672	4031.88202	0.941356668	0.0012
4080	0.91918	4102.77145	0.943800019	0.000606
4140	0.93115	4173.66088	0.94567952	0.000211
4260	0.95311	4244.55031	0.948310821	2.3E-05
4320	0.96275	4315.43974	0.950002372	0.000163
4380	0.97135	4386.32918	0.952257774	0.000365
4440	0.97883	4457.21861	0.954513175	0.000591
4500	0.98509	4528.10804	0.956768576	0.000802
4560	0.99007	4598.99747	0.958648077	0.000987
4620	0.99379	4693.51672	0.961091429	0.001069
4740	0.99739	4764.40615	0.96391068	0.001121
4800	0.99738	4835.29558	0.965790181	0.000998
4920	0.99402	4906.18501	0.968045583	0.000675
4980	0.99088	4977.07444	0.970300984	0.000423
5040	0.98689	5047.96388	0.968797383	0.000327
5100	0.98212	5118.85331	0.965602231	0.000273
5160	0.97677	5189.74274	0.96278298	0.000196
5220	0.97096	5260.63217	0.960151678	0.000117
5340	0.95809	5331.5216	0.957332427	5.74E-07
5400	0.95143	5402.41104	0.954325225	8.38E-06
5460	0.94464	5473.30047	0.951505973	4.71E-05
5520	0.93774	5544.1899	0.948498772	0.000116
5580	0.93104	5615.07933	0.94549157	0.000209
5700	0.91839	5685.96876	0.942672318	0.00059
5760	0.91239	5756.8582	0.940041017	0.000765
5820	0.90691	5827.74763	0.937221765	0.000919
5880	0.90184	5898.63706	0.933838663	0.001024
5940	0.89706	5963.61904	0.931620852	0.001194

RMSE = 0.026515



The Values for Kenaf Fiber for reference were taken from research by :

Ebrahim Taban, Parham Soltani, Umberto Berardi, Azma Putra, Seyyed Mohammad Mousavi, Mohammad Faridan, Seyed Ehsan Samaei, Ali Khavanin, *Measurement, modeling, and optimization of sound absorption performance of Kenaf fibers for building applications, Building and Environment,* Volume 180, 2020, 107087, ISSN 0360-1323, https://doi.org/10.1016/j.buildenv.2020.107087.