

AFMG Reflex Report



Creation date: 26/08/2012
AFMG Reflex Version: 1.0.6

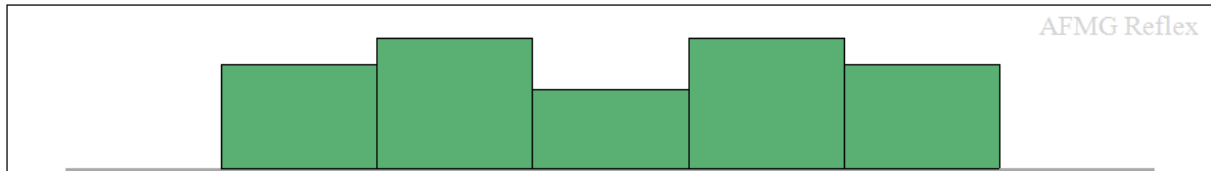
1. Models

1.1 New Model1

1.1.1 Description

Diffuser Module A1-LF

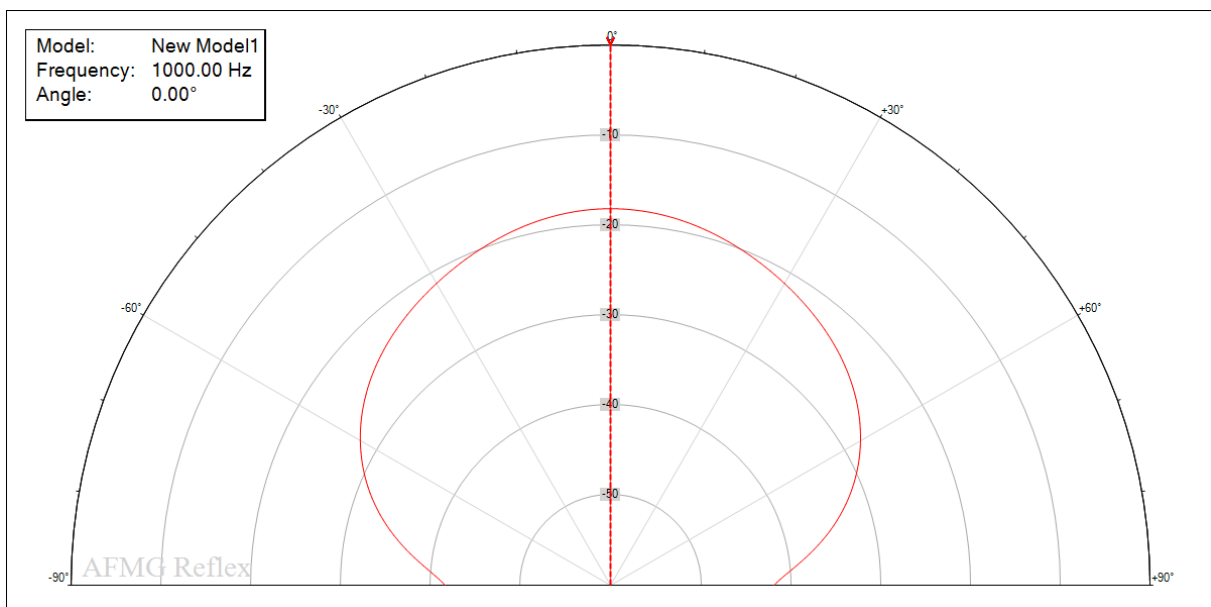
1.1.2 Model Outline



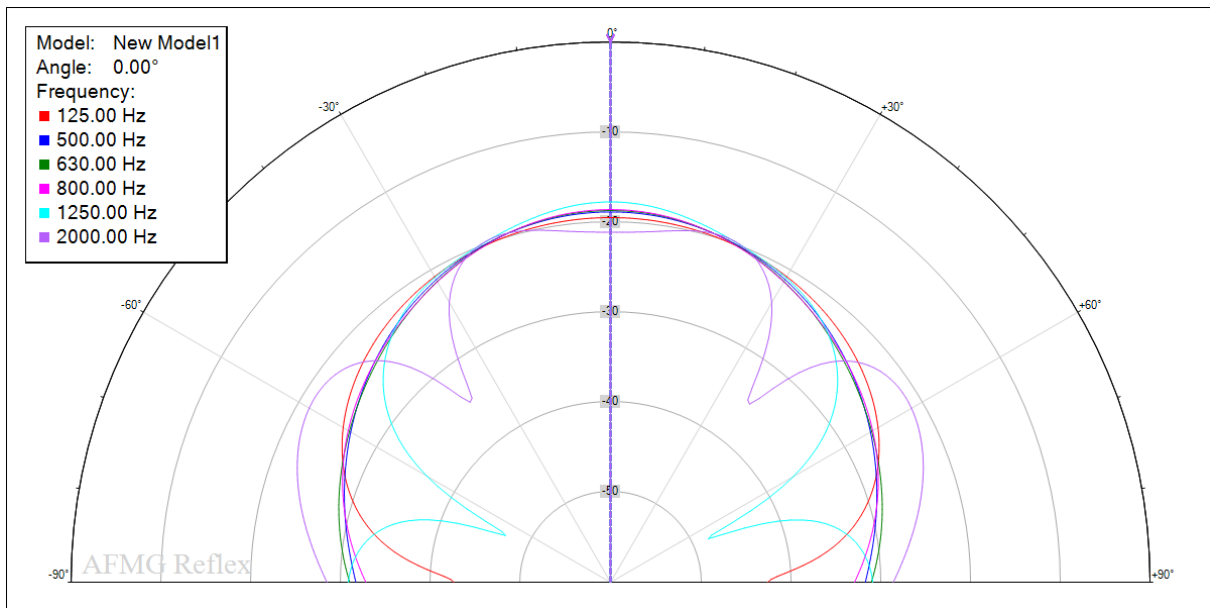
Model Outline

Element no.	Type	Width[cm]	Depth Base[cm]	Depth Top[cm]
1	Rectangle	6.0	0.0	0.0
2	Rectangle	6.0	4.0	0.0
3	Rectangle	6.0	5.0	0.0
4	Rectangle	6.0	3.0	0.0
5	Rectangle	6.0	5.0	0.0
6	Rectangle	6.0	4.0	0.0
7	Rectangle	6.0	0.0	0.0

1.1.3 Spatial Response Plots



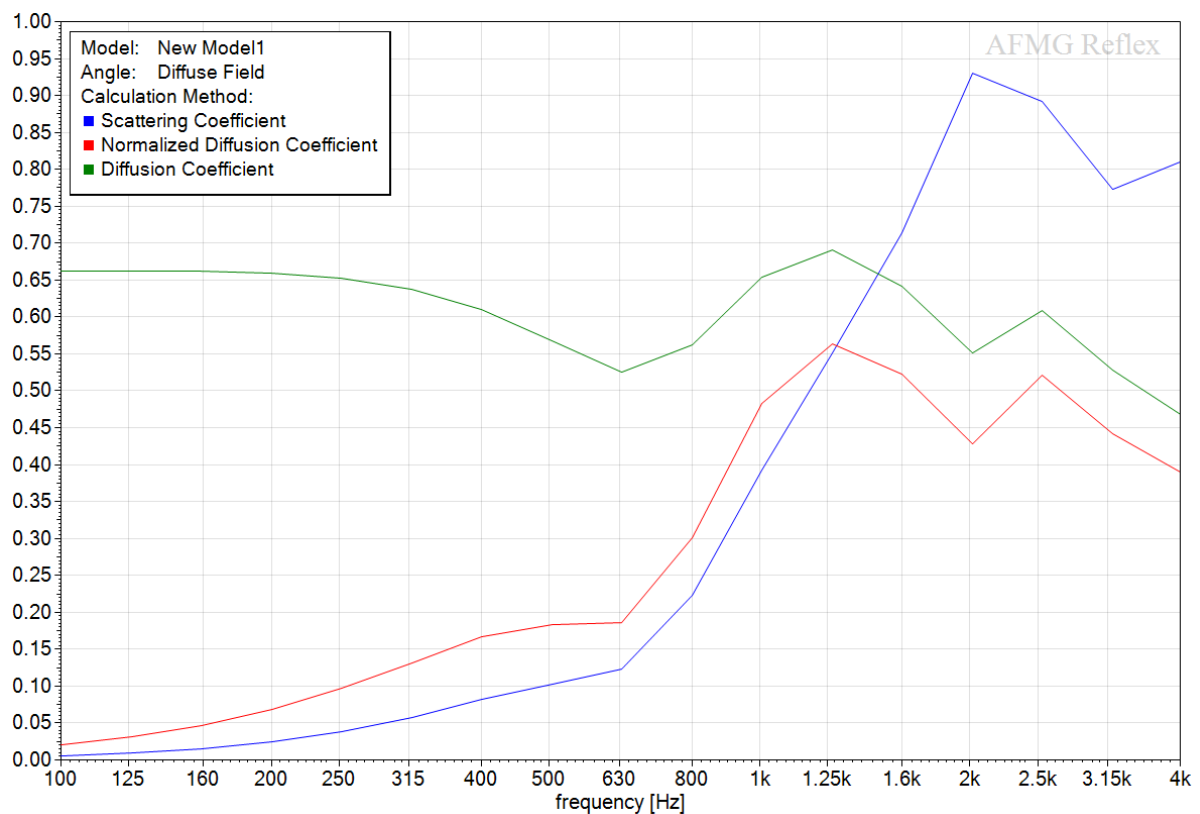
Spatial Response



Spatial Response

1.1.4 Coefficients Plots

Angle: Random Incidence, Frequency Range: [100 Hz, 4000 Hz]

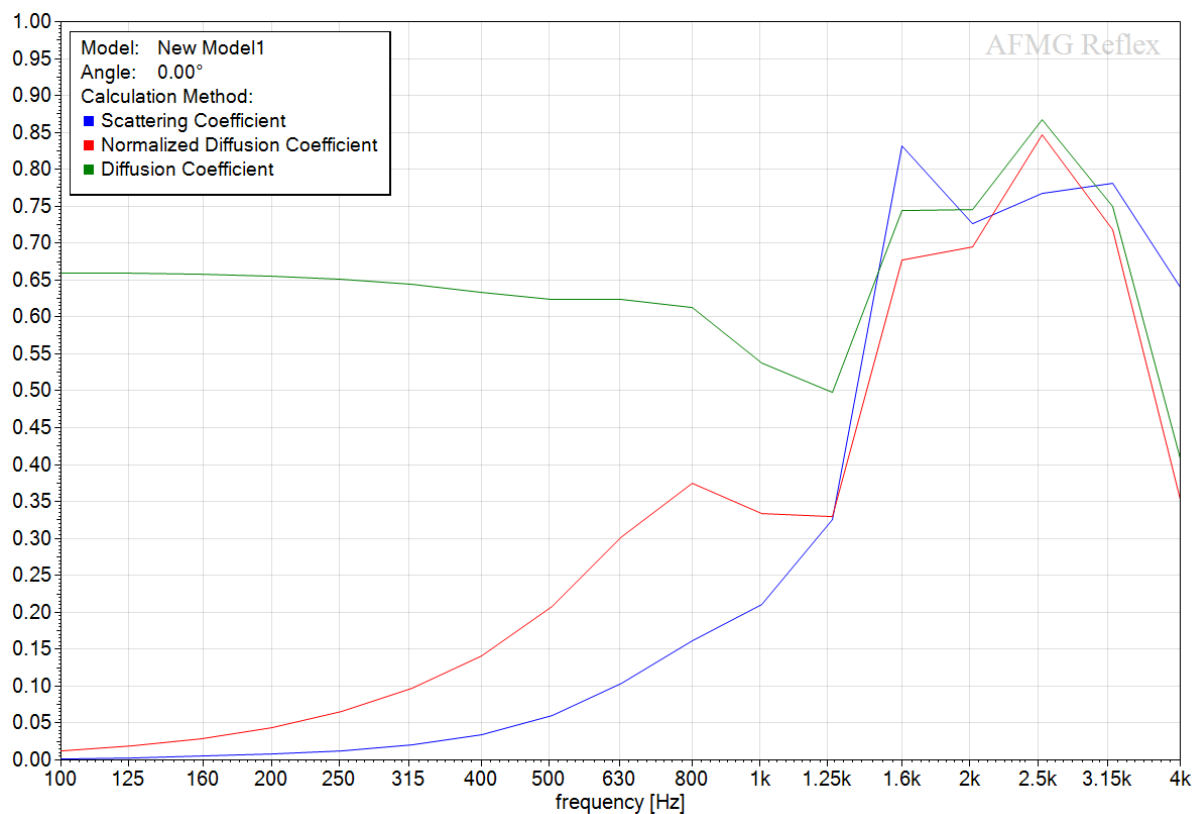


Coefficients

Frequency [Hz]	Scattering Coefficient	Normalized Diffusion Coefficient	Diffusion Coefficient
100	0.006	0.020	0.662
125	0.009	0.031	0.662
160	0.015	0.046	0.662

200	0.024	0.068	0.659
250	0.038	0.097	0.652
315	0.058	0.131	0.637
400	0.082	0.166	0.610
500	0.102	0.183	0.568
630	0.123	0.186	0.525
800	0.223	0.301	0.562
1000	0.393	0.483	0.654
1250	0.552	0.564	0.690
1600	0.714	0.522	0.642
2000	0.931	0.428	0.551
2500	0.892	0.521	0.609
3150	0.772	0.443	0.528
4000	0.811	0.389	0.467

Angle: 0°, Frequency Range: [100 Hz, 4000 Hz]



Coefficients

Frequency [Hz]	Scattering Coefficient	Normalized Diffusion Coefficient	Diffusion Coefficient
100	0.002	0.012	0.660
125	0.003	0.019	0.659
160	0.005	0.029	0.657
200	0.008	0.044	0.655

250	0.013	0.066	0.651
315	0.021	0.097	0.644
400	0.034	0.141	0.634
500	0.060	0.207	0.624
630	0.104	0.303	0.623
800	0.161	0.376	0.613
1000	0.211	0.333	0.538
1250	0.326	0.330	0.499
1600	0.832	0.677	0.744
2000	0.727	0.695	0.746
2500	0.768	0.846	0.867
3150	0.781	0.719	0.749
4000	0.636	0.341	0.398