

AFMG Reflex Report



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

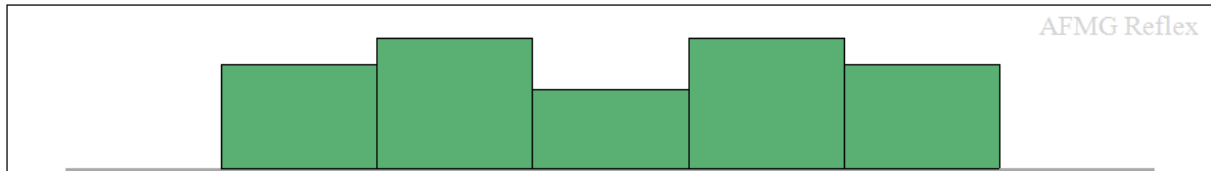
1. Models

1.1 New Model1

1.1.1 Description

Diffuser Module A1-LF

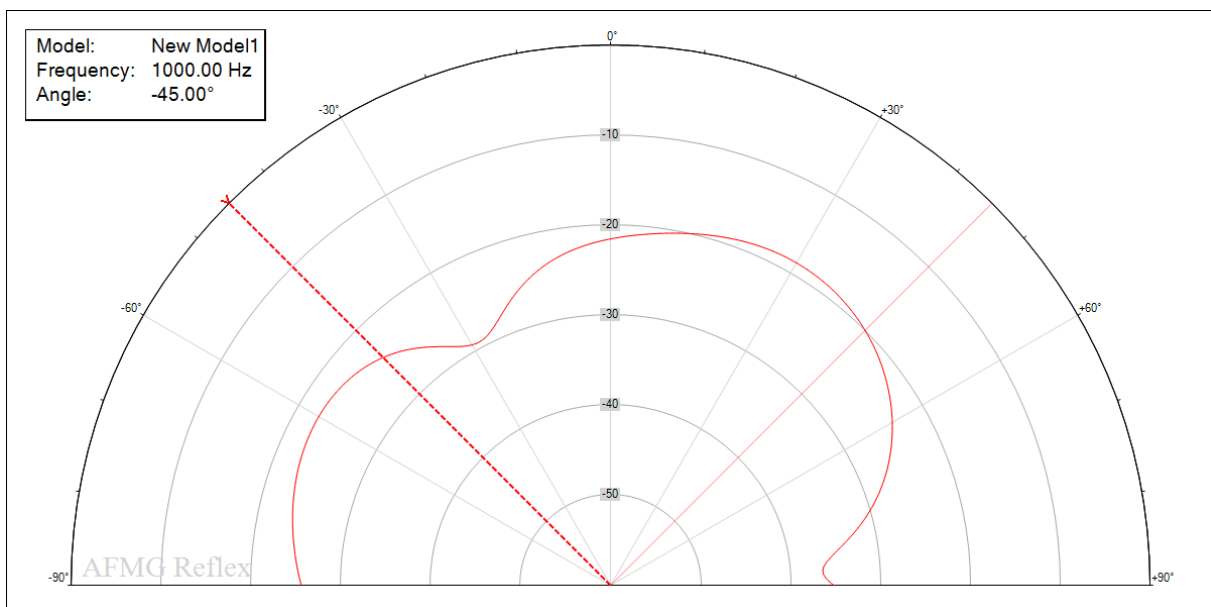
1.1.2 Model Outline



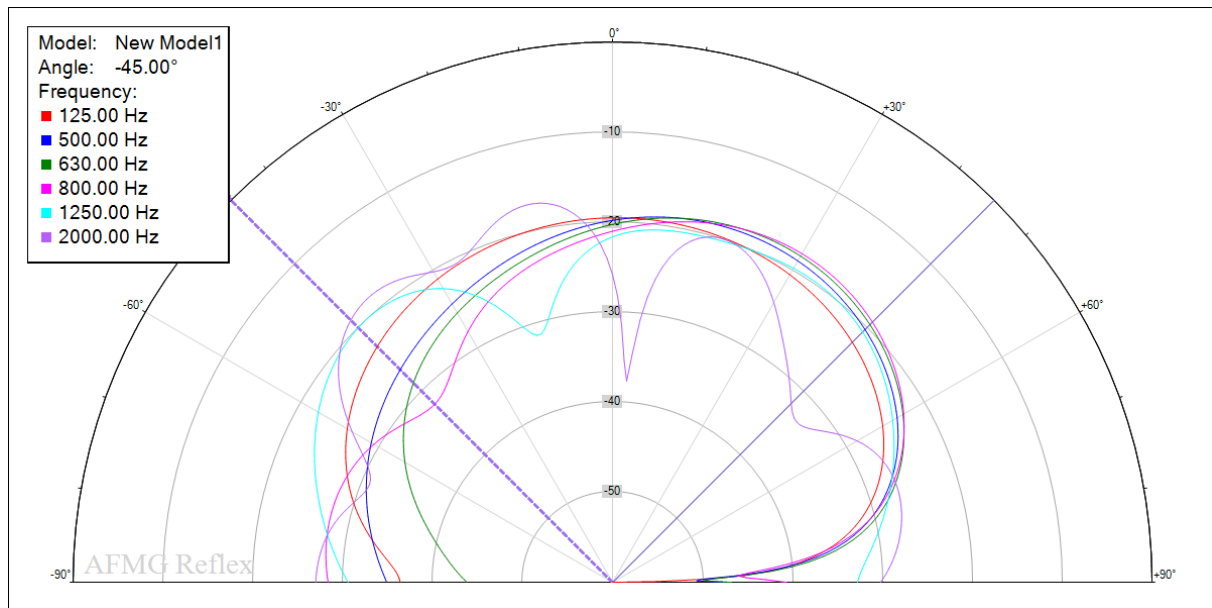
Model Outline

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



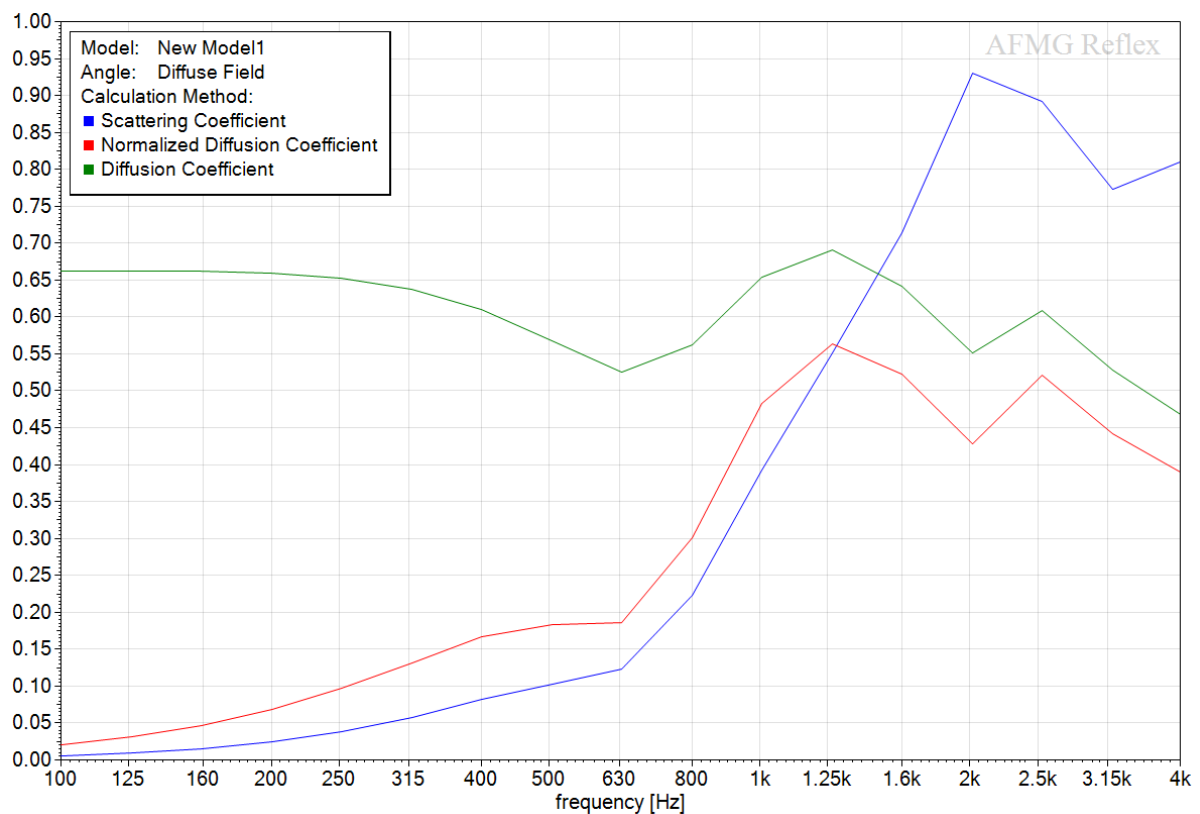
Spatial Response



Spatial Response

1.1.4 Coefficients Plots

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

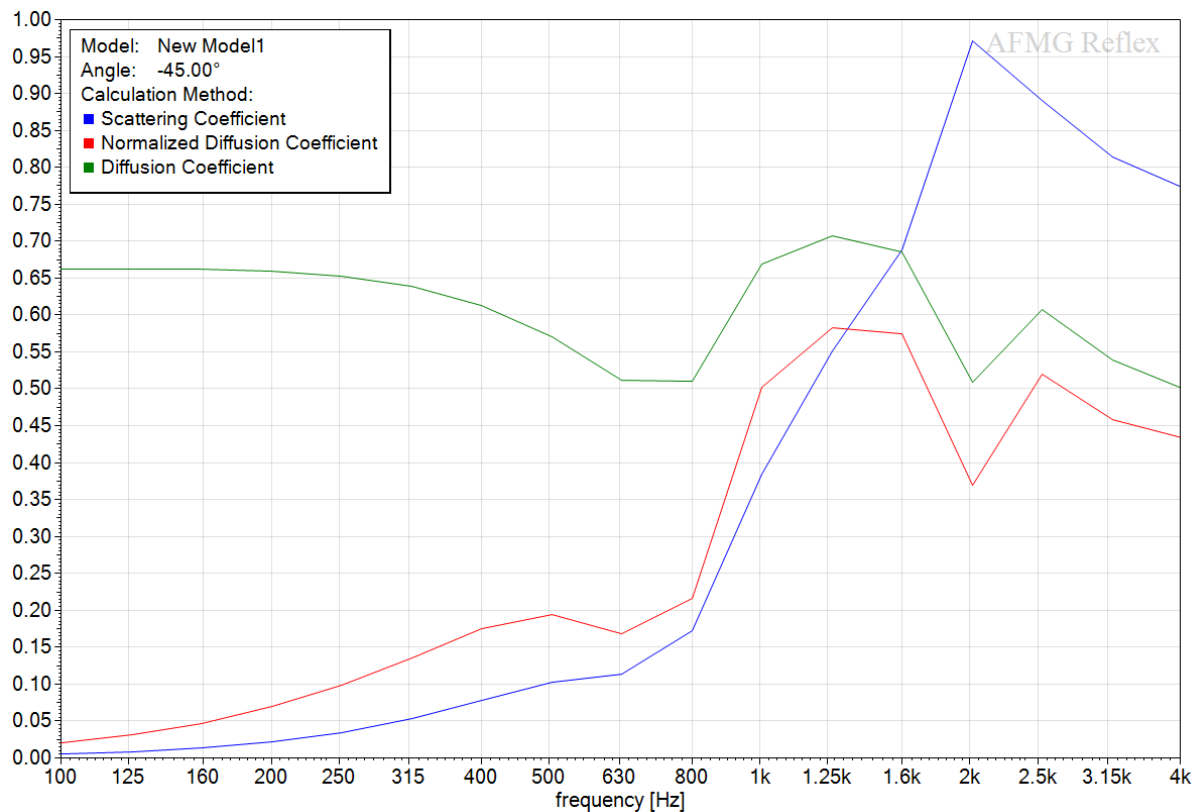


Coefficients

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: -45°, Frequency Range: [100 Hz, 4000 Hz]



Coefficients

Frequency [Hz]	Scattering Coefficient	Normalized Diffusion Coefficient	Diffusion Coefficient
100	0.005	0.020	0.662
125	0.008	0.031	0.662
160	0.013	0.047	0.662
200	0.022	0.069	0.660

250	0.034	0.099	0.653
315	0.053	0.136	0.639
400	0.078	0.175	0.613
500	0.103	0.195	0.571
630	0.114	0.169	0.511
800	0.173	0.217	0.510
1000	0.385	0.503	0.669
1250	0.551	0.583	0.707
1600	0.687	0.575	0.685
2000	0.972	0.370	0.509
2500	0.891	0.520	0.607
3150	0.815	0.458	0.538
4000	0.772	0.433	0.501