

AFMG Reflex Report



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

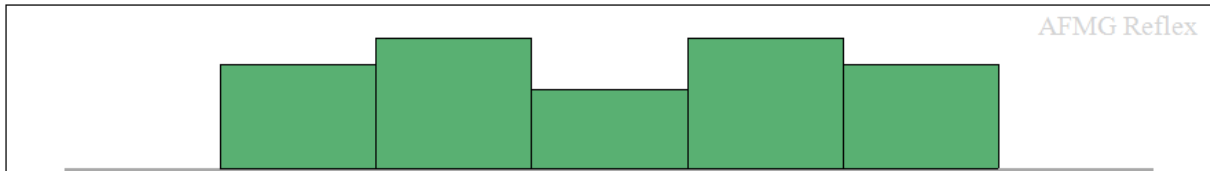
1. Models

1.1 New Model1

1.1.1 Description

Diffuser Module A1-LF

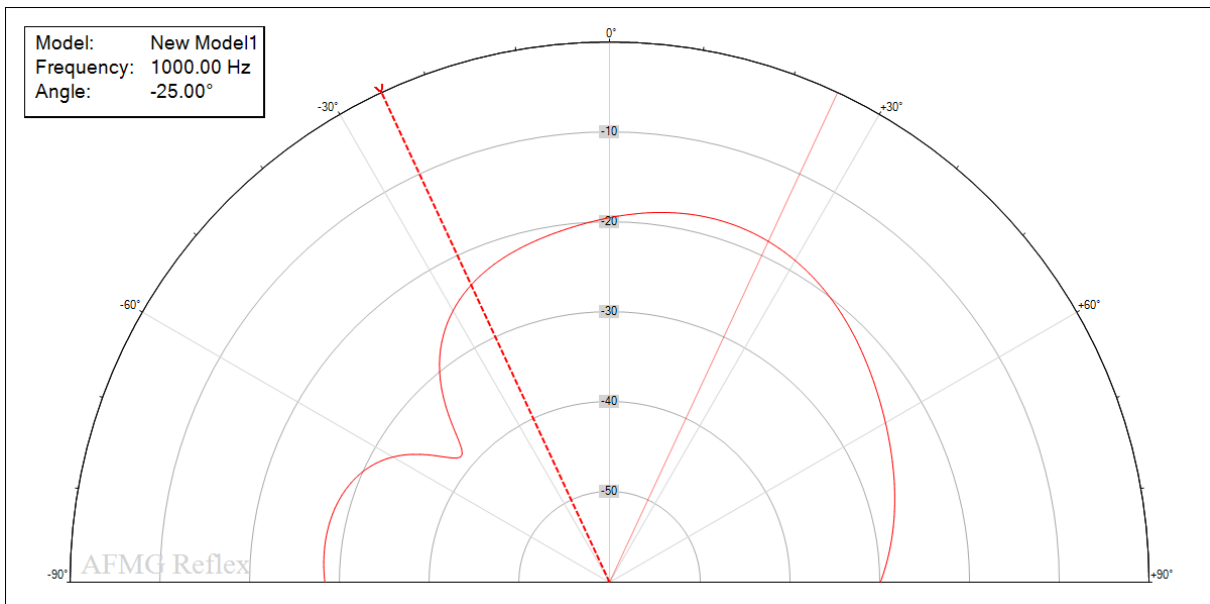
1.1.2 Model Outline



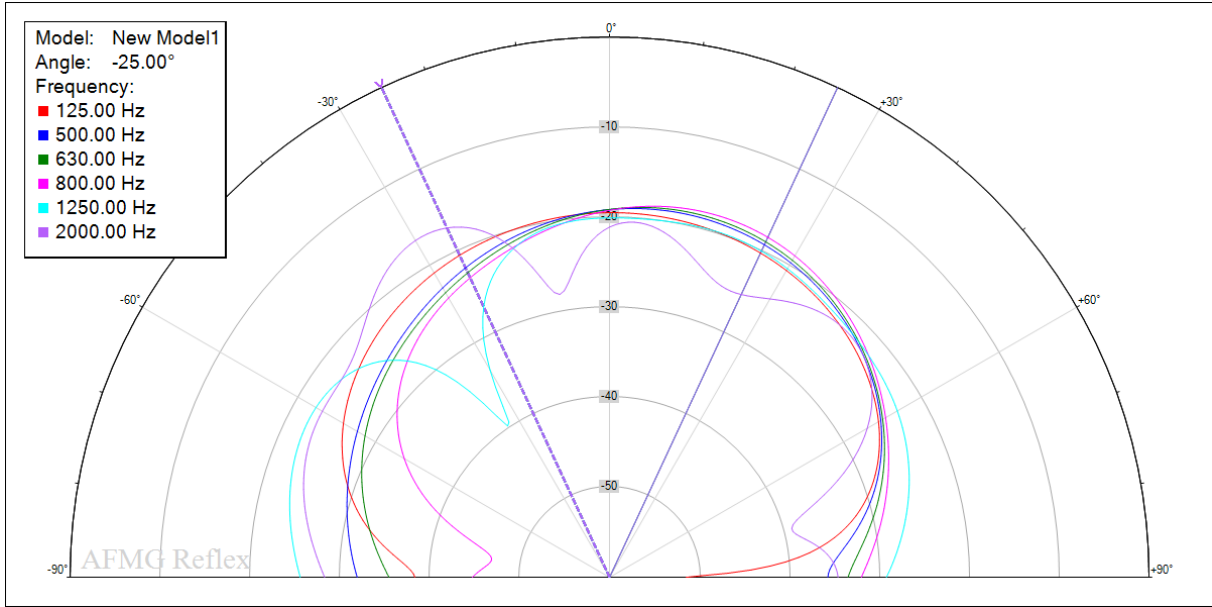
Model Outline

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



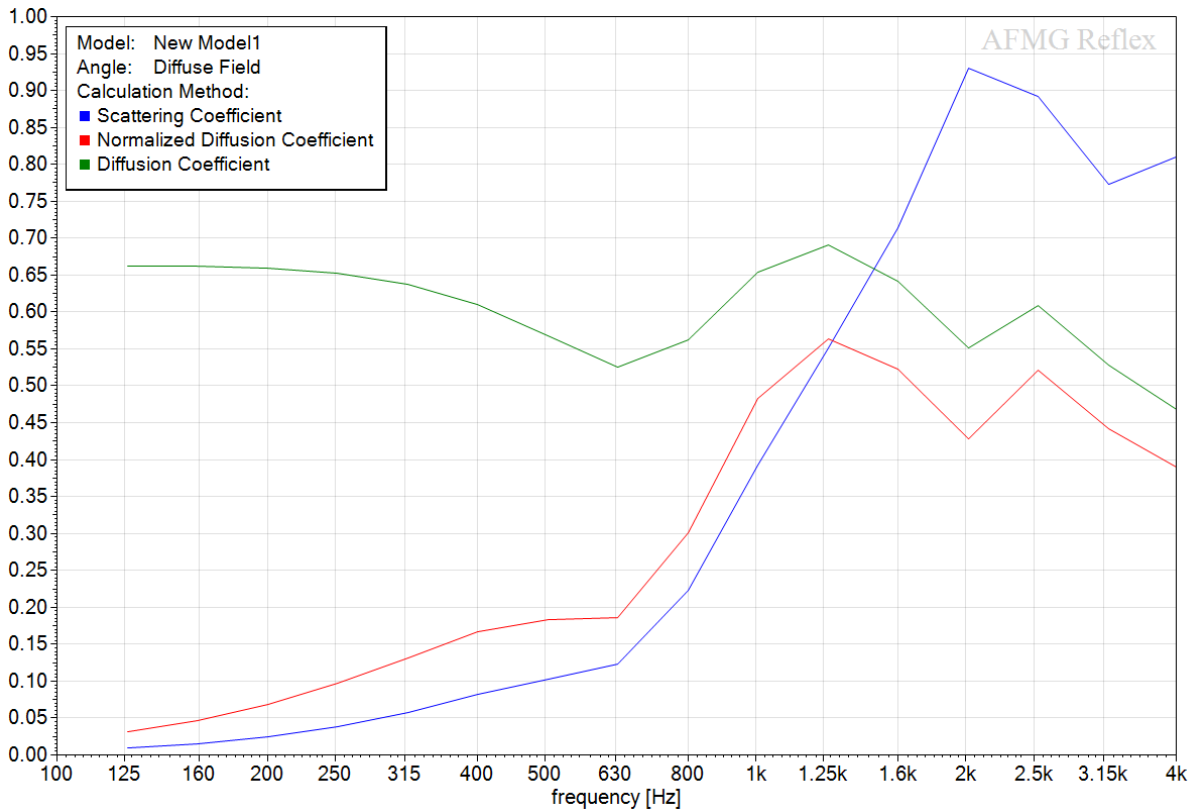
Spatial Response



Spatial Response

1.1.4 Coefficients Plots

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

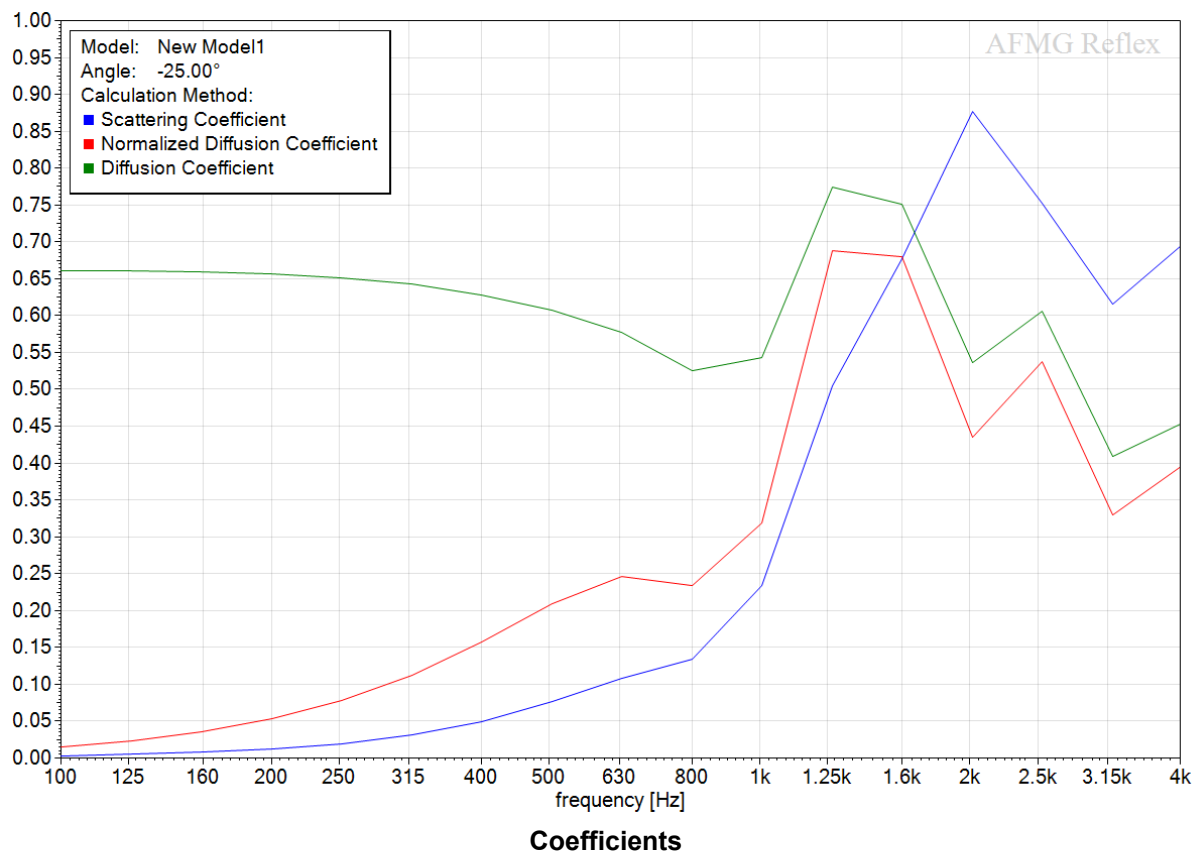


Coefficients

Frequency [Hz]	Scattering Coefficient	Normalized Diffusion Coefficient	Diffusion Coefficient
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: -25°, Frequency Range: [100 Hz, 4000 Hz]



Frequency [Hz]	Scattering Coefficient	Normalized Diffusion Coefficient	Diffusion Coefficient
100	0.003	0.015	0.661
125	0.005	0.023	0.660
160	0.008	0.036	0.659
200	0.012	0.053	0.657
250	0.019	0.078	0.652

315	0.031	0.112	0.643
400	0.049	0.157	0.628
500	0.076	0.209	0.607
630	0.108	0.246	0.577
800	0.134	0.233	0.525
1000	0.234	0.318	0.543
1250	0.505	0.688	0.774
1600	0.677	0.680	0.751
2000	0.877	0.434	0.537
2500	0.753	0.538	0.606
3150	0.616	0.330	0.409
4000	0.696	0.397	0.454