## Subject: SPL meter confusion (long) Posted by newsjeff on Fri, 19 Dec 2003 03:02:25 GMT View Forum Message <> Reply to Message

I was playing around with my Radio Shack SPL meter today. I was measuring the sound in my home theater, using only the front speakers and a sub. The meter was set at 80db, C weighting, slow response. I used the Stereophile Test CD #3, tracks 17, 18 and 19. These tracks use 1/3 octave warble tones. Below are the results, with and without meter corrections done by Michael Sims of Prairie State Audio Construction Society. My numbers may not be that exact. This was actually a test before I examine my main listening room and main stereo. By the way, my home theater is 17X12 with 9 foot ceilings and hardwood floors. There are windows against my back wall (behind the TV and stereo) covered with curtains. The only furniture I have in the room is a couch. Needless to say, this is a very live room. Uncorrected Corrected20Hz

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76 83.5	25Hz	83	88 31.5Hz	81	84 40Hz	76
78.5 50Hz	73 7	4.563Hz	81 83	8 80Hz	86	
88100Hz 87	89125Hz	85	85.5 160Hz	82	81.5200Hz	
82 79.5250	Hz 80	84.5315Hz	84	82.5400H	lz 84	
84500Hz 84	83.5 630H	z 81	81800Hz	82	821khz	
81 811.25Kh	nz 80	80.5 1.6Khz	81	81.52Khz	79	
77.52.5Khz 79	77.5 3.15	5Khz 81	79.5 4K	hz 82	80 5Kh	Z
84 82.56	6.3Khz 86	848Khz	79	87 10Khz	-	
-12.5Khz -	-16Khz	20	Khz -	- Ify	ou graph the	
numbers, there is a peak at 25Hz, a dip at 50 Hz, and another peak at 6.3Kh. A dip starts at 8Khz						
and continues down and off the scale from 10Khz to 20Khz. Can anyone tells me what these						
numbers mean? Is it normal for speakers to fall off at 8Khz on? The only room treatments I am						
considering are Risch DIY tube traps and HF panels. Will these help? Any suggestions would be						
greatly appreciated. Thanks.						

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