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Subject: Re: How much do the harmonics matter?  
Posted by [Martin](#) on Fri, 16 Dec 2005 11:54:10 GMT  
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"Harmonics are multiples of the fundamental, so F3 (aka F2 in a stopped pipe) =  $40 \times 3 = 120$  Hz..... "I think that this simple relationship is only true for straight constant area pipes. If the pipe is tapered or expanding, like a TQWT, the frequency of the harmonics will not be simple multiples of the fundamental frequency.Martin

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