

*Multiple-Chamber Aligned in Parallel (MCAP) Speaker System
Application Report*

Full-Range Speaker System with MCAP Enclosure - QU080b -

Principal Design

General Information		Summary
Document Release Date	11/29/08	QU080b consists of a main chamber and 4 subchambers. Overall size is 300W x 300H x 246D. In spite of this small size, it regenerates 38Hz. Orchestra or pipe organ sounds excellent. This sound quality may not be believed until the sound is heard. Frequency response seems relatively flat. This model is very much recommended.
Manufactured Year	2008	
Document ID	MCAPAP002E	
Model ID	QU080b	
Used Driver(s)	Tangband W3-316A	
Alternative Drivers	Any 3" drivers	
Overall Size(H×W×D)[mm]	300 x 300 x 246	
Characteristic Frequencies[Hz]	91, 76, 69, 58, 51, 48, 44, 38	
Required DIY Skill	Relatively High	
Designed by	S. Suzuki	

Enclosure Details

Item	Specification	Drawing
Model ID	QU080b	
Main chamber	2.07[L]	
Subchamber #1	3.10[L]	
Subchamber #2	3.08 [L]	
Subchamber #3	3.05[L]	
Subchamber #4	3.03[L]	
Duct #1	18 x 18 x 19	
Duct #2	18 x 18 x 39	
Duct #3	18 x 18 x 69	
Duct #4	18 x 18 x 119	
Duct #5	18 x 18 x 89	
Duct #6	18 x 18 x 99	
Duct #7	18 x 18 x 119	
Duct #8	18 x 18 x 159	

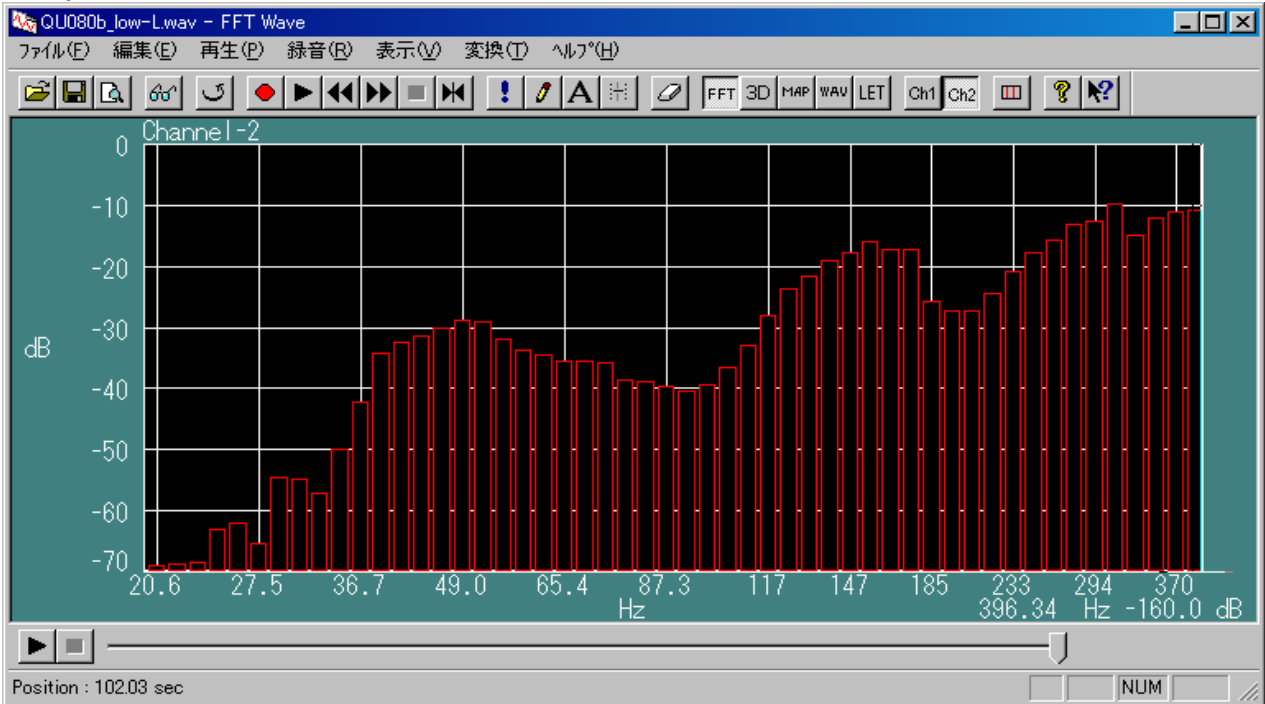
Material of this enclosure was 12mm thickness compiled pine wood plate (1920 x 910).

Any questions should be asked to Shigeru Suzuki (mcapspeakers@gmail.com).

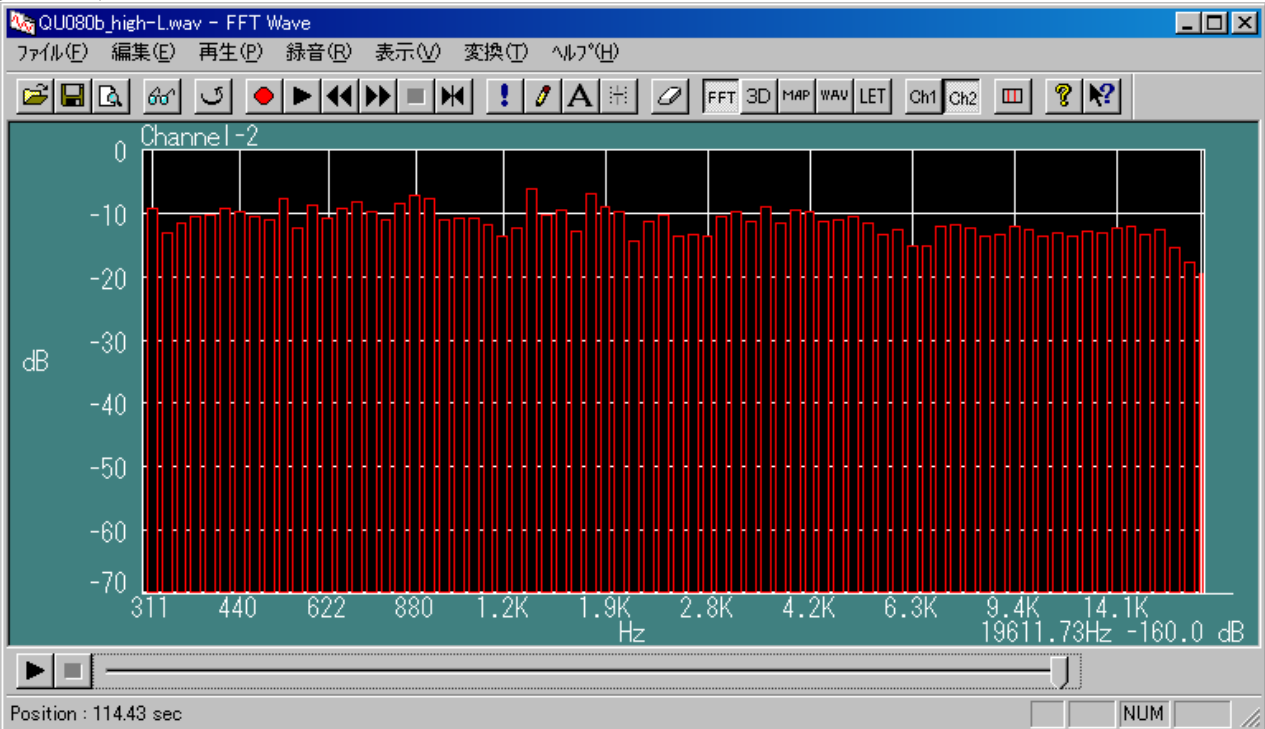
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Frequency Response

20 - 400Hz



300-20,000Hz



End of report