

Specifications – Bamberg Series 2 LCR Monitor

Transducers

15cm woofer (2)	Peerless HDS aluminum cone
25mm tweeter	Vifa NE25

Impedance *(graph)*

Nominal	4 ohm
Minimum (@200 & 5k Hz)	3.6 ohm
Phase (20 Hz to 20k Hz)	+12 / -27 degrees

Amplitude response *(graph)*

To 20kHz	+/- 2 dB
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Dispersion *(see graphs)*

Sensitivity

2.8V@1-Meter full space	88 dB
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Bass alignment

Sealed system, 0.7Q	HPF2 -3dB@90Hz (THX specification)
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Inter-driver Phase response

1. 5 kHz to 9kHz	Less than 40° phase difference
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Maximum nonlinear output

105 dB 70W	HPF2 @80Hz, all frequencies, no compression
102 dB 35W	No HPF, all frequencies, no compression

Crossover

Alignment	Linkwitz-Riley 4th @ 3.1 kHz
Elements	19, 5 of which are in the series signal paths
Phase compensation	9 elements in 3 circuits

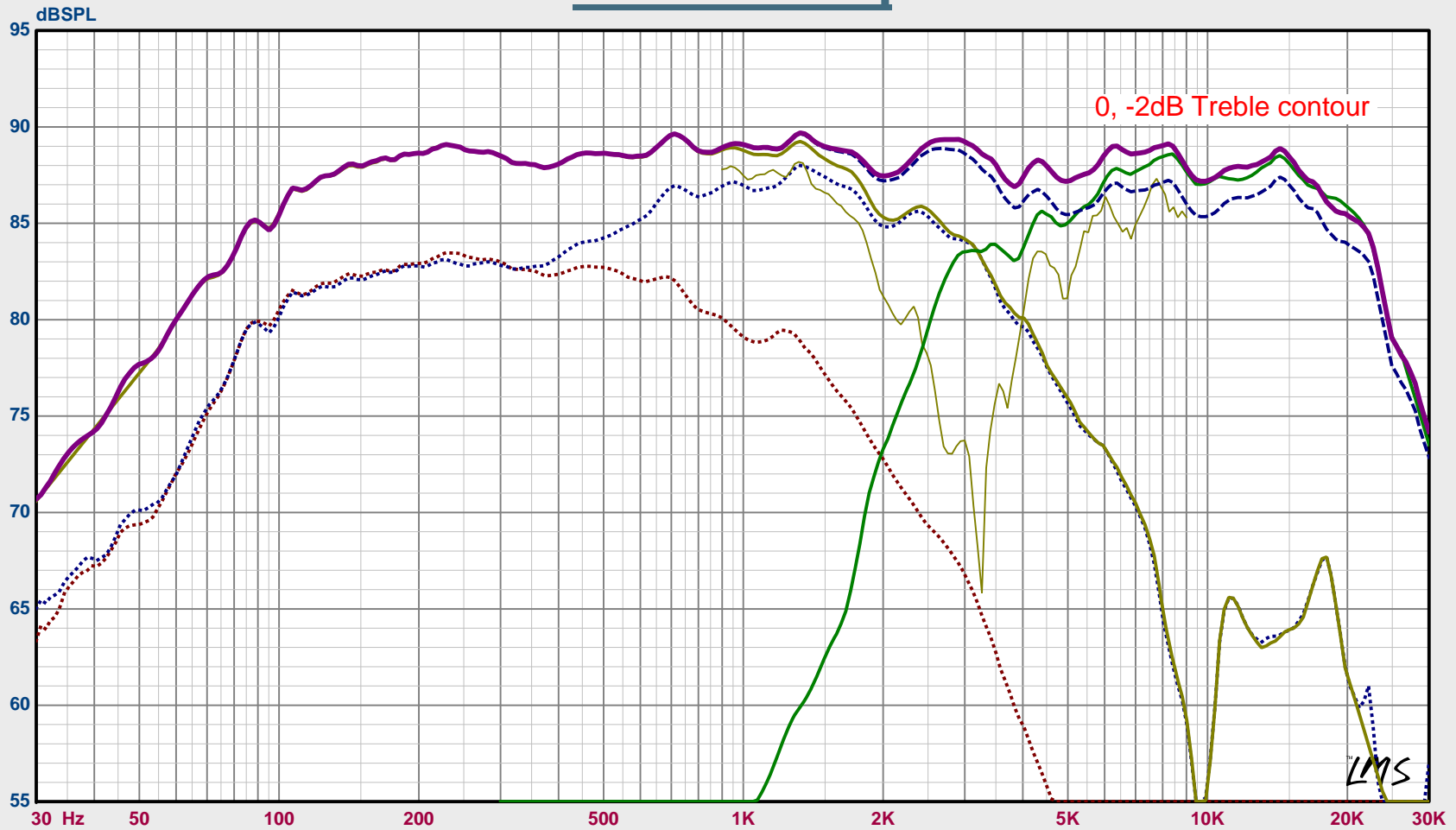
Dimensions; Weight (Net)

19.7"H x 7.9"W x 9.7"D, 21 lb.	[50x20x24.5cm, 12.2kg]
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Dimensions; Weight (Ship)

24 x 14.5 x 12", 24 lb.	[61x38x30cm, 11kg]
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SPL vs Freq



Map

- 80: Low Woofer 1/10
- 81: High Woofer 1/10
- 82: Low + High Woofer 1/10
- 84: 20°H DIFF
- 93: Tweeter 1/10
- 94: 10H Sum(C) 1/10 Sw@-2
- 95: 10H Sum(C) 1/10

Notes

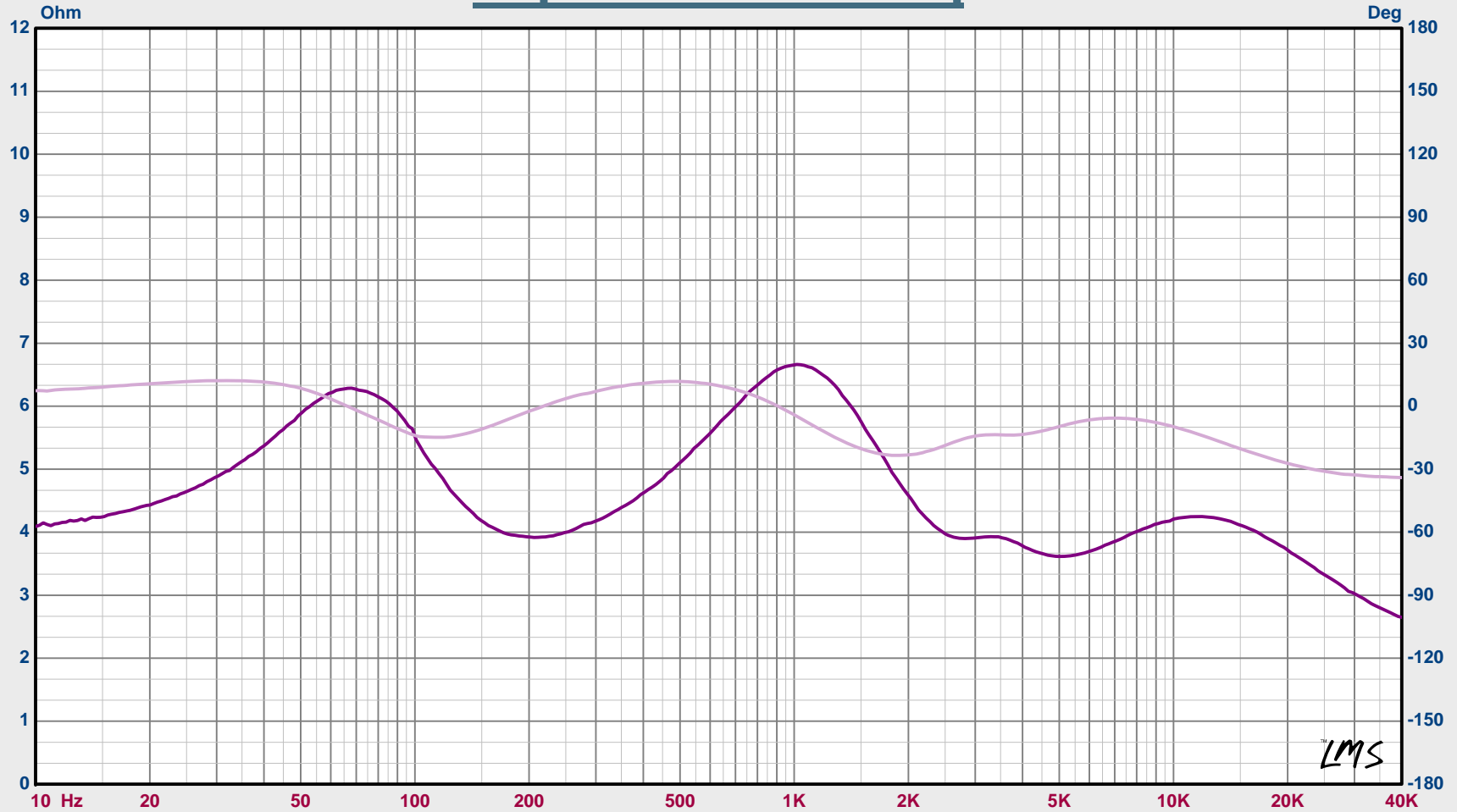
Speaker at 10degrees off horizontal axis: on vertical axis.

All curves referenced to full space.

100 points per decade, 1/10th octave smoothing.

Data Measured: Oct 8, 2013 Tue 2:02 pm

Impedance vs Freq



LMS

Map

— 88: Z 1v Low+Mid+High

Notes

System impedance at 1 volt.

Data Measured: Oct 8, 2013 Tue 4:03 pm

LMS

4.6.0.371
May/29/2007

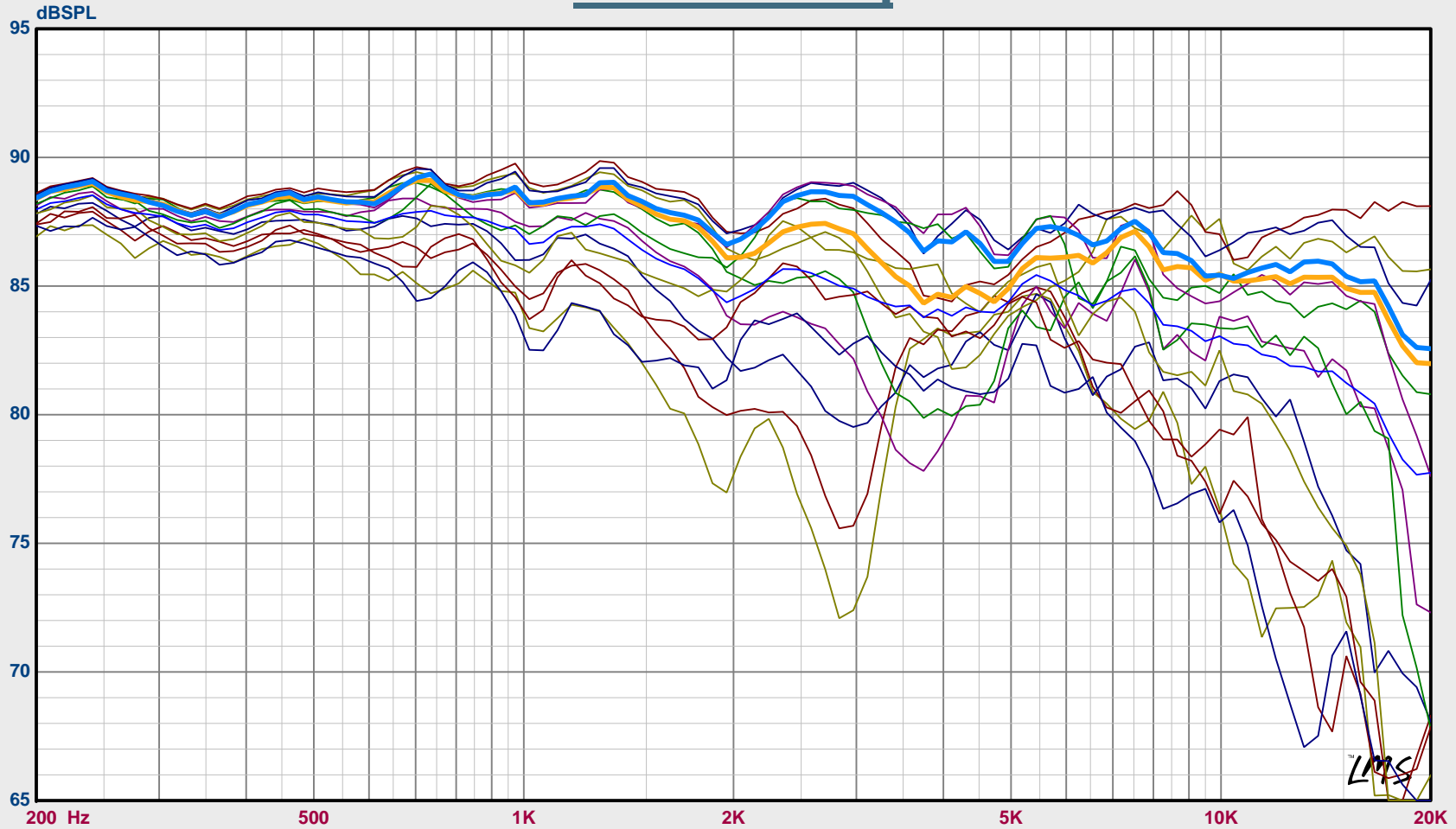
Person: Philip E Bamberg
Company: Bamberg Audio

Project: Series 2 LCR
File: S2LCR_Peer15cmAlum_VifaNE25_PASSIVE.lib

Dec 16, 2013
Mon 6:15 pm

LINEAR X
S Y S T E M S

SPL vs Freq



Map

- 33: -60H
- 34: -50H
- 35: -40H
- 36: -30H
- 37: -20H
- 38: -10H
- 39: 00
- 40: 10H (Towards tweeter edge)
- 41: 20H

Notes

HORIZONTAL RESPONSE (LCR cabinet is vertical, as for left or right location).

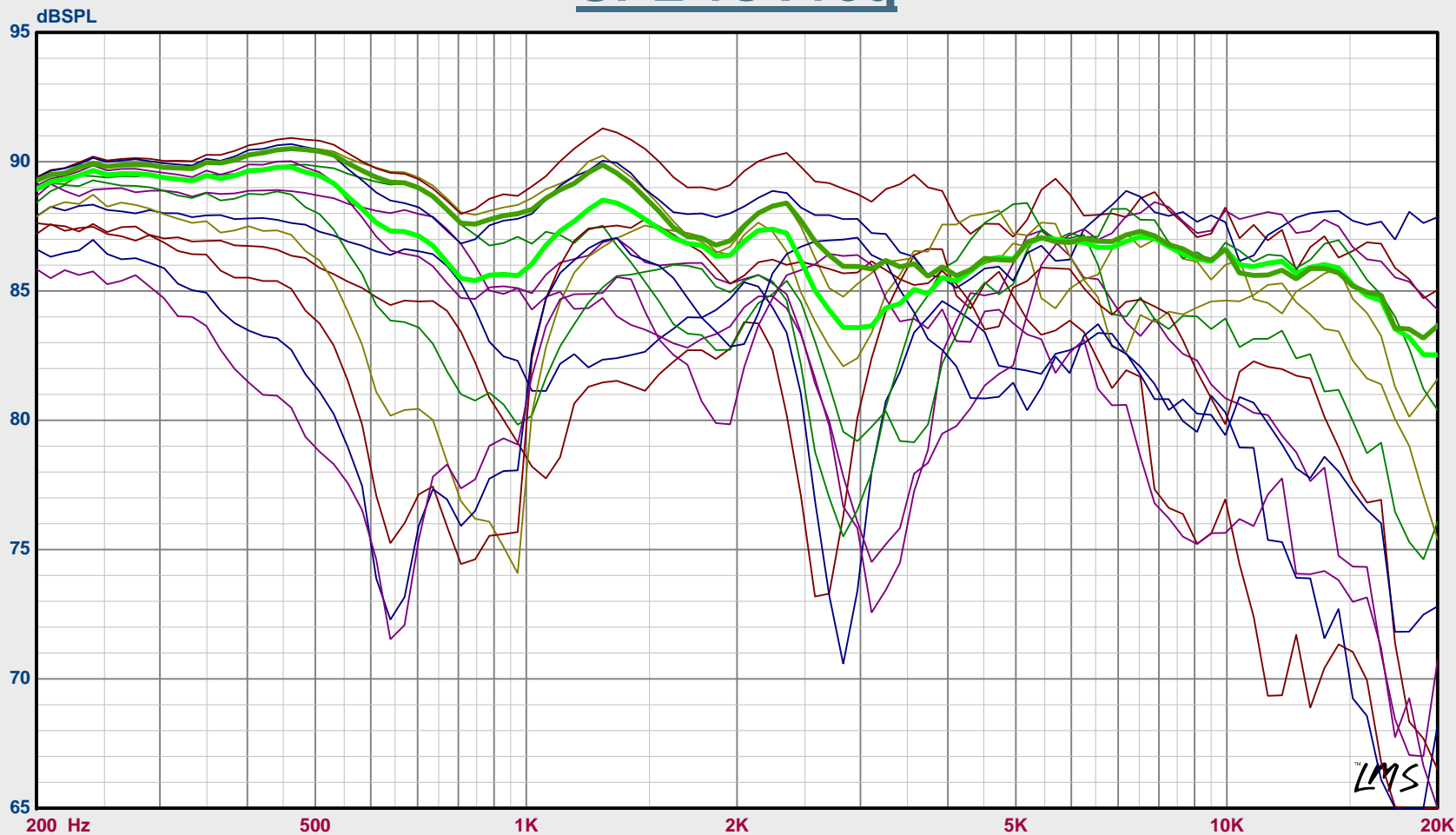
Yellow curve is +/-30° window.

Blue curve is 0 to +30° window (towards the tweeter side).

Data Measured: Oct 8, 2013 Tue 2:31 pm

Data Measured: Oct 8, 2013 Tue 2:32 pm

SPL vs Freq



Map

- 52: -60H
- 53: -50H
- 54: -40H
- 55: -30H
- 56: -20H
- 57: -10H
- 58: 00
- 59: 10H (Towards High Woofer - NOTE)
- 60: 20H

Notes

VERTICAL RESPONSE (LCR cabinet is horizontal, as for center speaker location).

Light green curve is +/-30° window.

Dark green curve is 0 to +30° window (towards the Low woofer end).

Data Measured: Oct 8, 2013 Tue 2:43 pm

Data Measured: Oct 8, 2013 Tue 2:44 pm



4.6.0.371
May/29/2007

Person: Philip E Bamberg
Company: Bamberg Audio

Project: Series 2 LCR
File: S2LCR_Peer15cmAlum_VifaNE25_POLAR.lib

Dec 16, 2013
Mon 6:48 pm

