



Engineering Standard

Date Effective

Number

2/28/2003

239049

Engineering Design
Specification

Date Revised

A

K2.S4800

Acoustical and Electrical Specifications

System:

<i>Sensitivity:</i>	93 dB for 2.83V @ 1M
<i>Rated Impedance:</i>	8 ohm
<i>Minimum Impedance:</i>	7.0 Ohm @ 100 Hz, 4.0 Ohms @ 50 kHz
<i>Impedance Curve:</i>	See Page 5
<i>Frequency Response (-6 dB):</i>	55 Hz to 40 kHz (Anechoic)
<i>f3 (-3 dB):</i>	70 Hz
<i>Sound Power:</i>	See Page 8
<i>Harmonic Distortion, 96dB:</i>	See Page 6
<i>Power Compression:</i>	Less than 0.5 dB @ 100dB SPL
<i>Crossover Frequencies:</i>	900 Hz, 8 kHz
<i>System Polarity:</i>	E.I.A.

System Component Specifications

Driver(s)	Size	Supplier	Model #
<i>Bass Transducers:</i>	15"	JBL Pro	1500FE
<i>High Frequency Transducer:</i>	3"	JBL Pro	435AI
<i>UHF Transducer:</i>	1"	JBL Pro	045Ti

Network:

<i>Voltage Drive:</i>	See Page 7
<i>Schematic:</i>	See Page 9

Engineering Design Specification	Date Effective 2/28/2003	Number 239049	Rev Number A
-------------------------------------	-----------------------------	------------------	-----------------

K2.S4800

System Physical Specifications

may be superceded by information on the drawings

Cabinet:

<i>HWD, inches</i>	42" x 19.75" x 14.63", plus 3/4" for spike foot (H)
<i>Enclosure Volume</i>	3.5 Cubic Feet
<i>Material</i>	MDF
<i>Panel Thickness</i>	1" MDF
<i>Finish</i>	Man made Mahogany veneer
<i>Sub Enclosure</i>	None
<i>Bracing</i>	Side to side and front to back stiffners
<i>Grille</i>	Plastic Frame, metal pins
<i>Grille Cup</i>	6, molded rubber inside metal baffle fasteners
<i>Port</i>	1 Rear firing, 4.13" diameter, 32 Hz tuning
<i>Lining</i>	1" Fiberglass
<i>Terminals</i>	Metal Plate, Dual 5-Way Binding Posts, Gold Plated
<i>Network Controls</i>	3 Position HF level switch
<i>Badging</i>	Grille Logo, Horn Logo
<i>Foils</i>	Input Plate silkscreen
<i>Feet</i>	Adjustable spikes
<i>Weight</i>	143 lb
<i>Accessories</i>	None

Engineering Test Specification	Date Effective 2/28/2003	Number 239049	Rev Number A
---	-----------------------------	------------------	-----------------

K2.S4800

System Test Specifications

production testing quantities per JBL QA AQL

System:

<i>Frequency Response:</i>	Window	Averaging	Slope
	+/- 1.5 dB, 50 Hz to 6 kHz	1/3 Octave	36dB/Octave
	+/- 2.0 dB, 6 kHz to 20 kHz	1 Octave	36dB/Octave

Microphone Position: On HF @ 1 meter.

<i>Dynamic Test:</i>	<i>Sine Sweep Voltage:</i> 6 V
	<i>Frequency Range:</i> 20 Hz to 20000 Hz
	<i>Sweep Duration:</i> 5 seconds

<i>Power Test:</i>	<i>Input Signal:</i> 20 V, IEC Shaped Noise
	<i>Duration:</i> 8 + 92 Hours
	<i>Control Settings:</i> N/A

Polarity Test: EIA for LF and HF, UHF - Reverse

Environmental Test: HCG/JBL Spec #

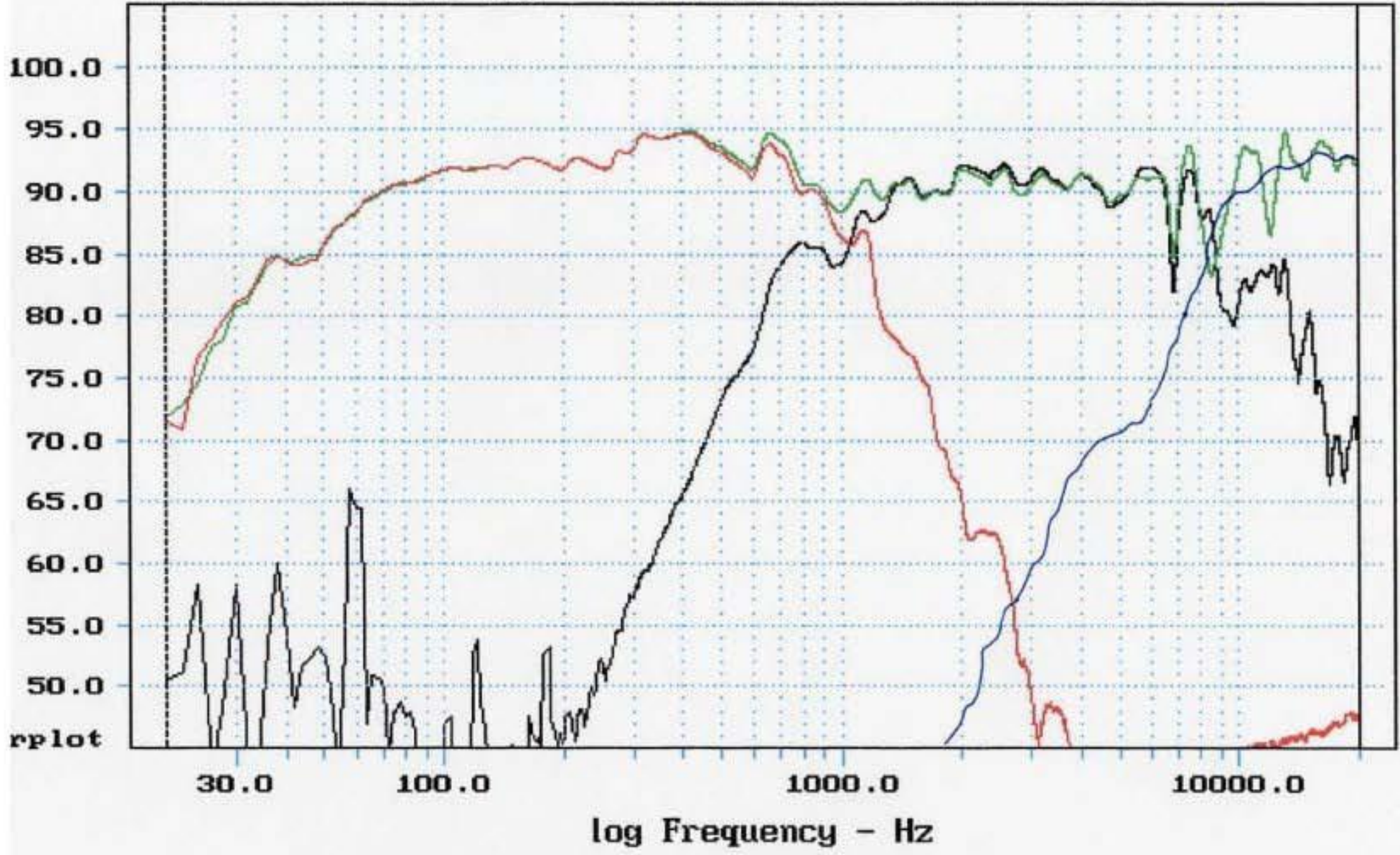
Transit Test: A.S.T.M. **DC-4**

Visual Criteria: HCG/JBL QA Spec #

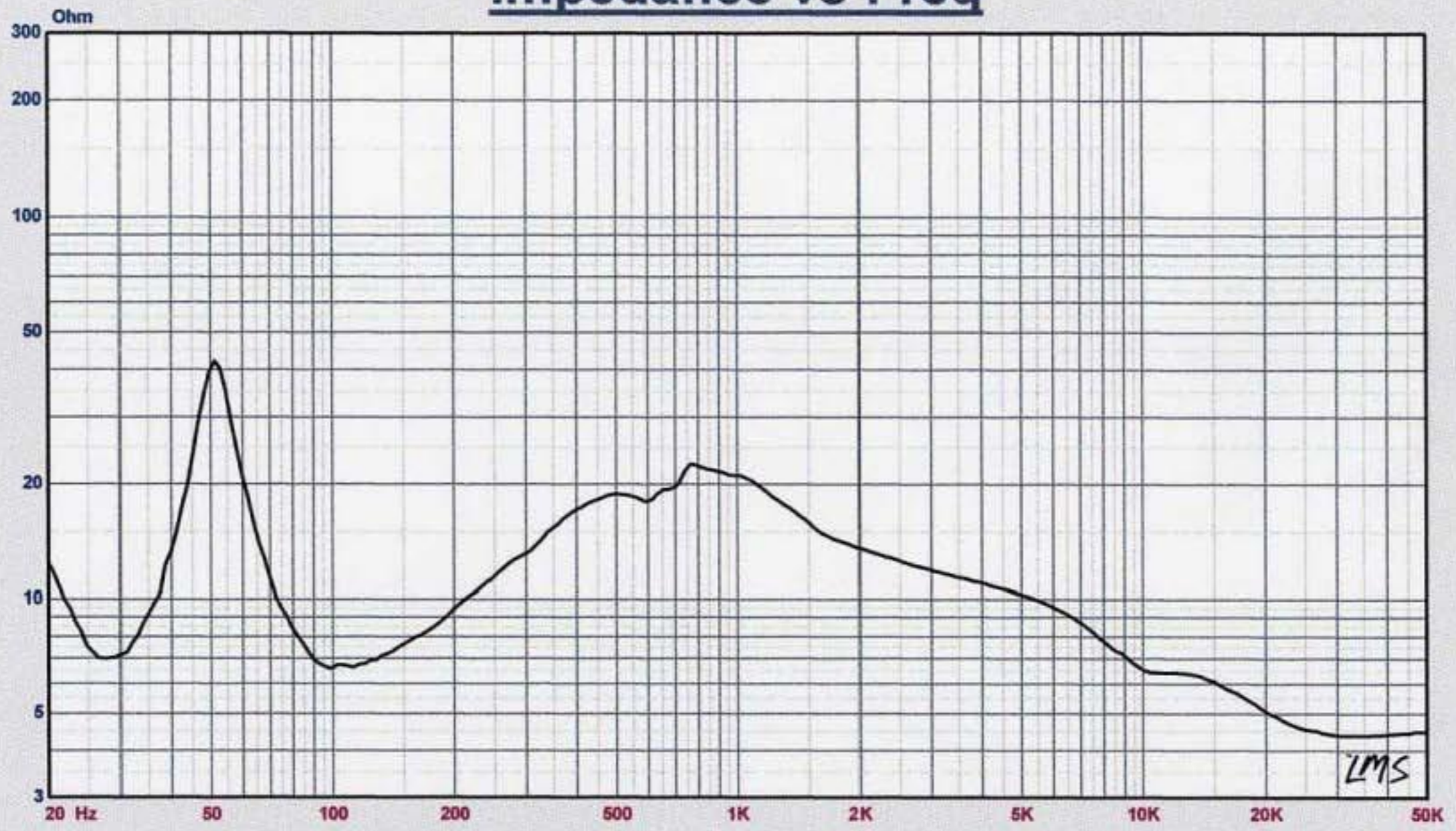
Network:

<i>Voltage Drive:</i>	Window	Averaging	Slope
<i>LF, 8 Ohm</i>	+/- 0.5 dB, 20 Hz to 200 Hz	1/6 Octave	36dB/Octave
	+/- 0.7 dB, 200 Hz to 800 Hz	1/6 Octave	36dB/Octave
	+/- 1.0 dB, 800 Hz to 1600 Hz	1/6 Octave	36dB/Octave
	+/- 1.5 dB, 1600 Hz to 8000 Hz	1/3 Octave	36dB/Octave
<i>HF, 8 Ohm</i>	+/- 1.5 dB, 100 Hz to 400 Hz	1/3 Octave	36dB/Octave
	+/- 1.0 dB, 400 Hz to 800 Hz	1/6 Octave	36dB/Octave
	+/- 0.5 dB, 800 Hz to 6000 Hz	1/6 Octave	36dB/Octave
	+/- 1.0 dB, 6000Hz to 12000 Hz	1/6 Octave	36dB/Octave
	+/- 1.5 dB, 12000 Hz to 20000 Hz	1/6 Octave	36dB/Octave
<i>UHF, 8 Ohm</i>	+/- 1.5 dB, 200 Hz to 4000 Hz	1/3 Octave	36dB/Octave
	+/- 1.0 dB, 4000 Hz to 12000 Hz	1/6 Octave	36dB/Octave
	+/- 0.7 dB, 12000 Hz to 40000 Hz	1/6 Octave	36dB/Octave

Transfer Function Mag - dB volts/volts (0.05 oct)(eq)



Impedance vs Freq



— 26: Impedance, Rev.3

Map

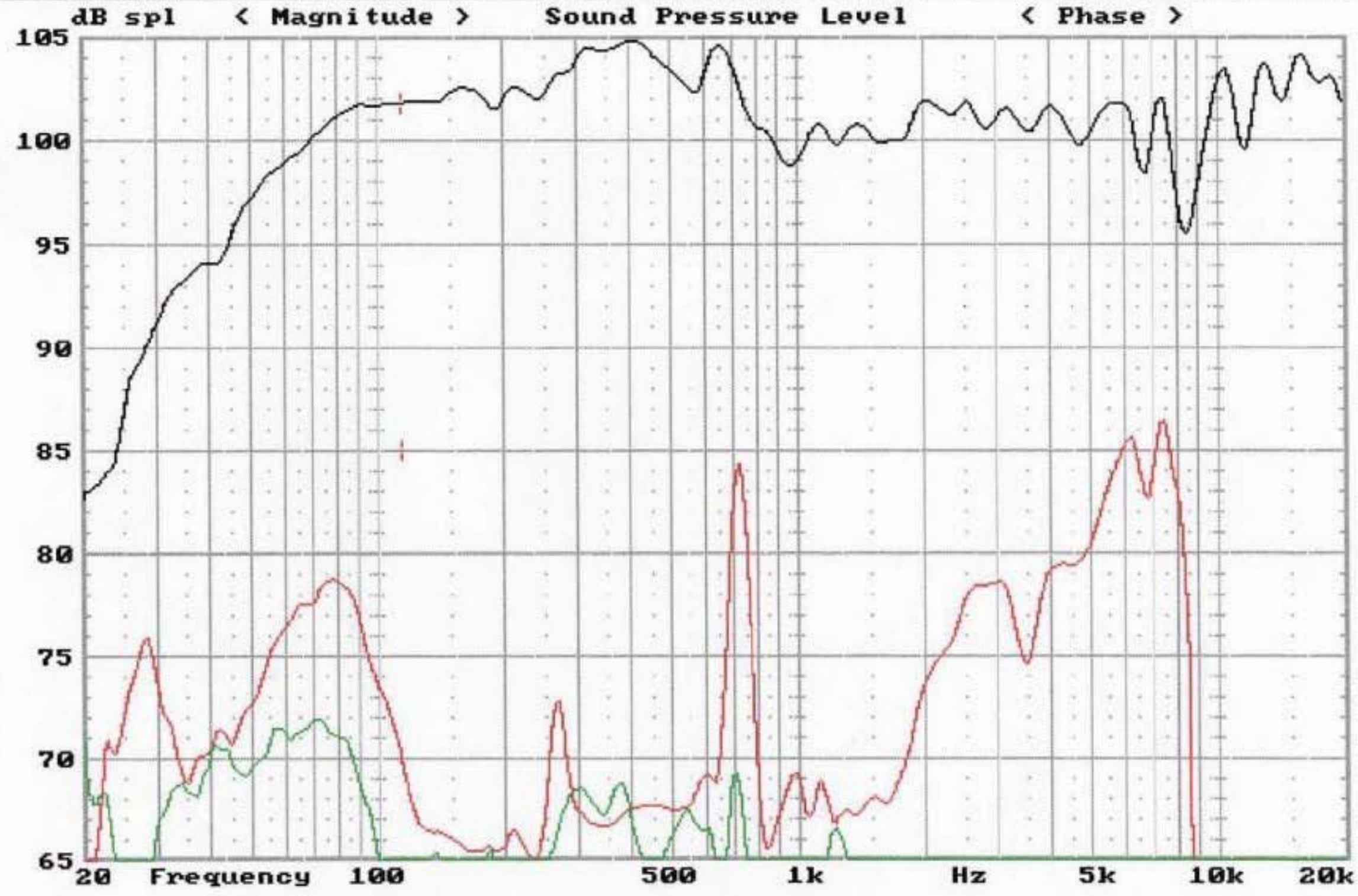
LMS

Command Menu < LMS Graphic System Display > Curve Library Listin

CURSORS
M= 101.80
P= 0.00
F= 113.88

[↑↓] Select Curve [PuPd] Page Up/Dn
[TAB] Display [F1] Graph [R] RunSwp
[D] Data Curve [←→] Move Cursors
[N] Name Curve [1-9] Cursor Step
[E] Erase Curve [F9] Rel [F10] Abs
[INS] Osc On/Off [I] Info [ESC] Exit

1: S4800 SPL
2: D2 Raised 20 dB SPL
3: D3 Raised 20 dB SPL



Engineering Standard
Distortion

Date Effective
2/28/2003

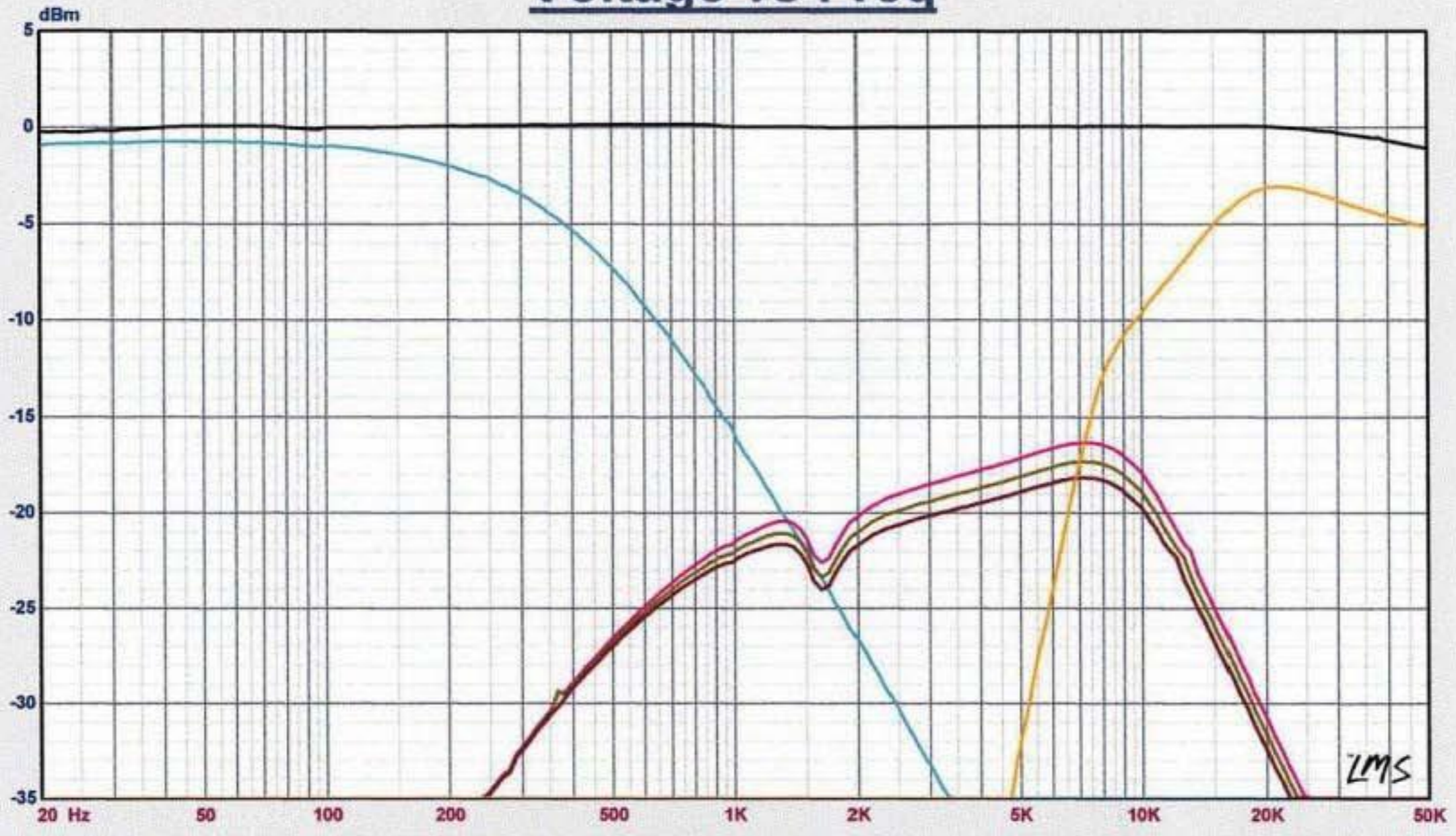
Number
239049

Rev Number
A

K2.S4800

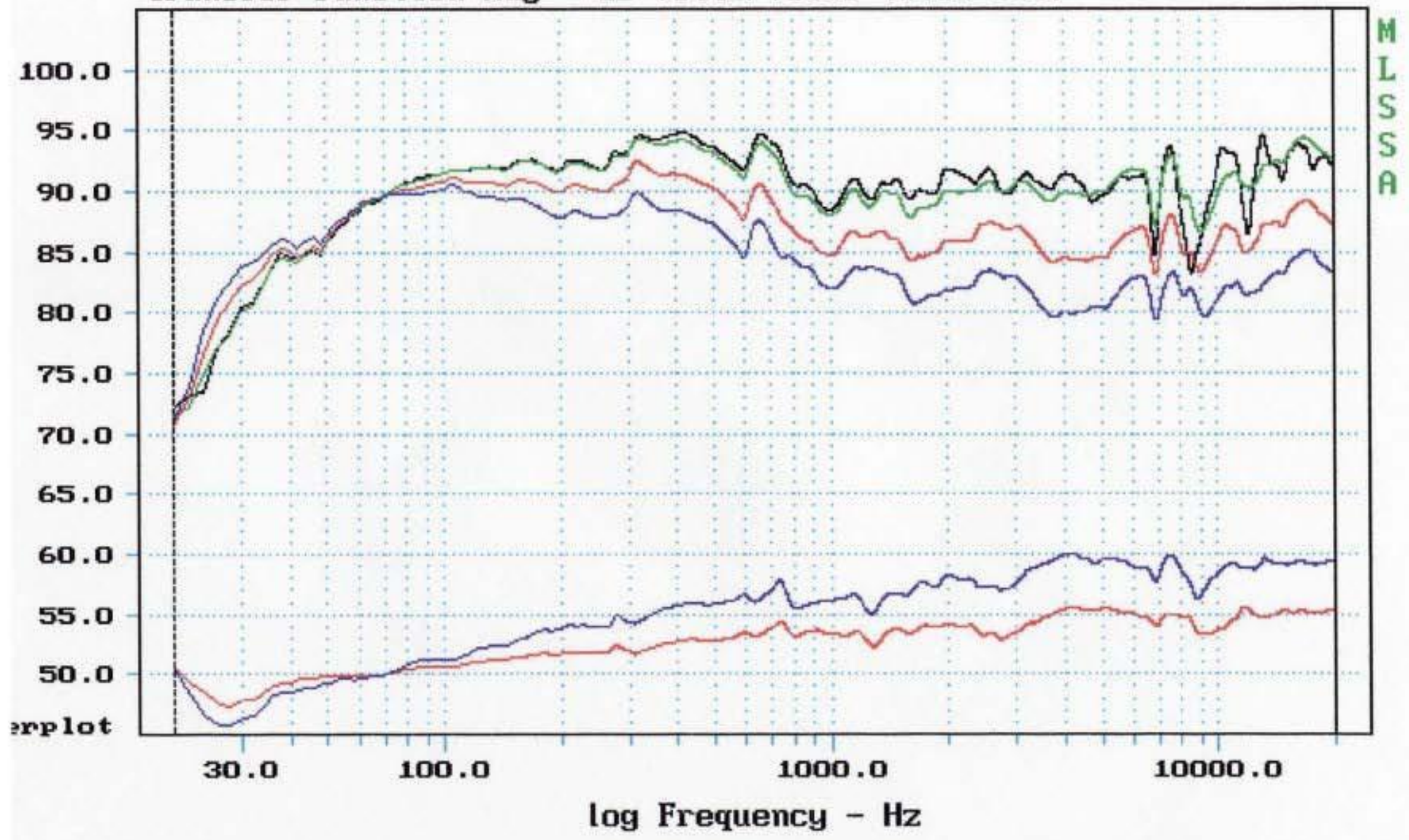
K2.S4800

Voltage vs Freq



- Map
- 2: REF
 - 21: LF, REV.3
 - 22: HF +1, REV.3
 - 23: HF 0, REV.3
 - 24: HF -1, REV.3
 - 25: UHF, REV.3

File: C:\SNDPWR\DI_SND.FRQ 3-20-2003 8:20 AM (equalized)
Transfer Function Mag - dB volts/volts (0.05 oct)



K2.S4800

S4800
P/N 351409-001, -002

3/18/03
Rev. 3
G.T.

