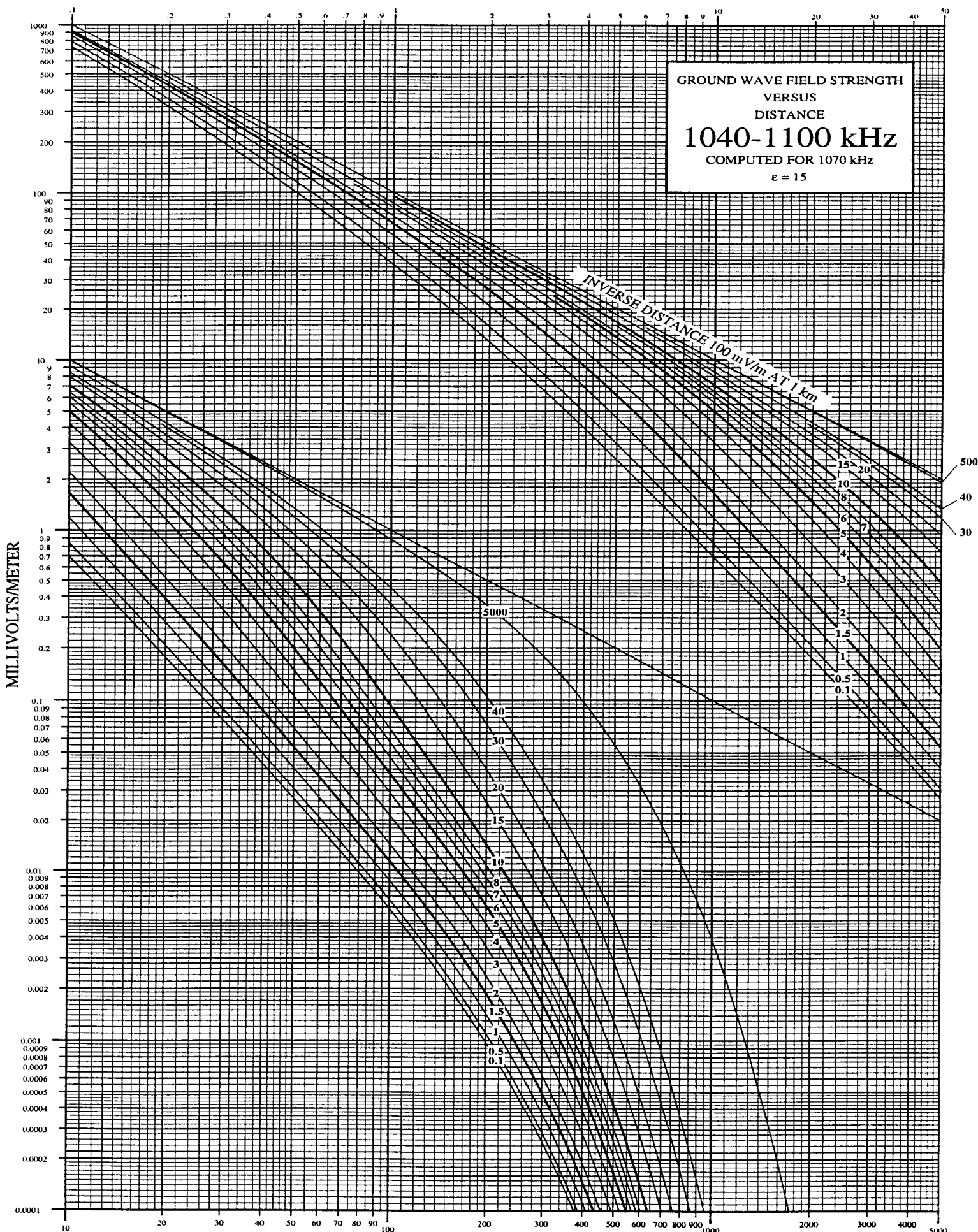


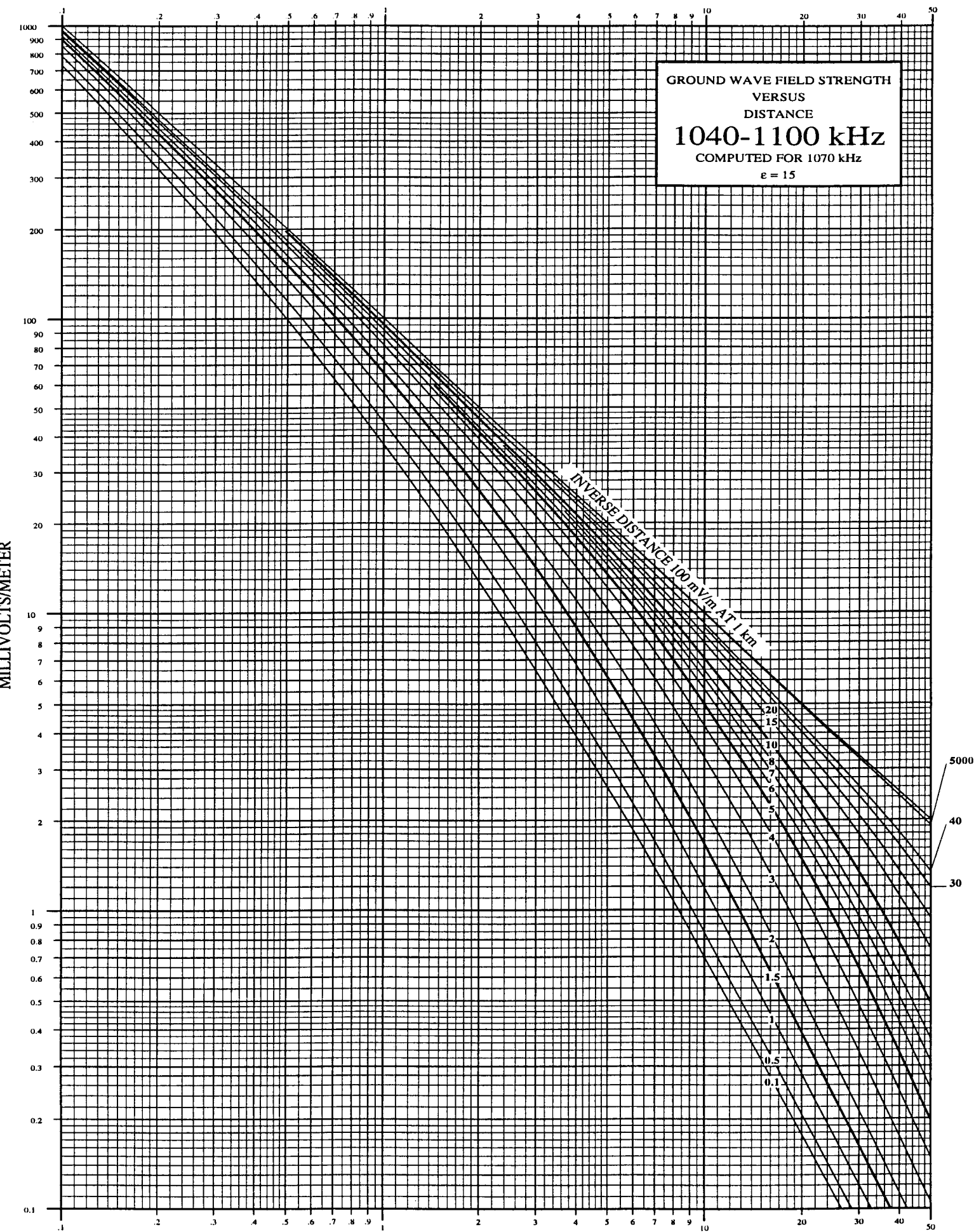
KILOMETERS FROM ANTENNA



KILOMETERS FROM ANTENNA

GRAPH 13

KILOMETERS FROM ANTENNA



KILOMETERS FROM ANTENNA

GRAPH 13-A

POTOMAC INSTRUMENTS, INC

SILVER SPRING, MARYLAND

CERTIFICATE OF CALIBRATION

Field Intensity Meter Type FIM-21 Serial No. 862

This instrument was calibrated in an induction field of 220.0 millivolts per meter. At each measurement frequency the measured field was recorded and a correction factor K was computed: the indicated field must be multiplied by K to obtain the true field.

<u>KHz</u>	<u>K</u>	<u>MHz</u>	<u>K</u>	<u>KHz</u>	<u>K</u>	<u>MHz</u>	<u>K</u>
540	1.000	1.6		1100	1.000	3.5	
600	1.000	1.9		1200	1.000	3.8	
700	1.000	2.2		1300	1.000	4.1	
800	1.000	2.5		1400	1.014	4.4	
900	1.000	2.8		1500	1.014	4.7	
1000	1.000	3.2		1600	1.014	5.0	

Single Frequency of KHz only, K

The calibrating field is maintained equal to the National Bureau of Standards standard field within an accuracy of 1.0 per cent. NBS states that the absolute accuracy of its field is "believed to be within 3.0 percent."

The error at points on the meter scale other than the calibration point is less than 3.0 per cent. The attenuator ratios are correct within 2.0 per cent. These accuracies apply for battery voltages that are indicated by the instrument's battery check circuit to be useable. NEXT RECOMMENDED CALIBRATION DATE:

JANUARY 2003

Calibrated by [Signature] Date 29 JAN. 2001.

STATE OF MARYLAND

Personally appeared before me this 29TH day of JANUARY 01, EARL C. MOORE, who testified under oath that the above calibration was made either by himself or under his direction and that the statements in the above certificate are true to the best of his knowledge and belief.

[Signature]

NOTARY PUBLIC
STATE OF MARYLAND
My Commission Expires June 18, 2001