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December 19, 2005 Hearing Protective Device Test Report Number Q965A Revision 0



Date of Sample Receipt: 12/9/05

Date of Sample test: 12/10/05 - 12/17/05

Attenuation measurements have been performed according to the American National Standards Institute (ANSI) Specifications, ANSI S3.19-1974, using the experimenter-fit protocol, on the Unique Safety Equipment EP-06 insert-type hearing protector (test ID Q965A). The specified threshold measurement data were obtained using ten normal-hearing listeners, six male and four female. These listeners were selected from a standby group of about 35 volunteers, mostly graduate students, who regularly serve as listeners for measurements of this kind.

The measurements were made in a room designed for this purpose. All acoustic characteristics of the room meet the requirements outlined in ANSI S3.19-1974. The ambient noise levels in this room are below the limits specified in ANSI S3.19-1974, and open ear thresholds are used on a continuing basis to monitor the background noise levels. An automatic recording attenuator was used to record both open and occluded ear thresholds.

Each of ten subjects was tested three times at each of nine test frequencies. The attached Tables show grand mean attenuation values in decibels (dB) for each test signal along with group attenuation values. Standard deviations (S.D.) for the 30 different attenuation determinations for each test signal are also given. The results presented in this report pertain to the samples tested only.

Michael & Associates is accredited by the National Institute of Standards and Technology (NIST) National Laboratory Accreditation Program (NVLAP) for tests performed according to ANSI S3.19-1974 and ANSI S12.6-1997. These accreditation criteria encompass the requirements of international standards ISO 9002:1994 (ANSI / ASQC Q92-1987) and ISO / IEC Guide 17025. This report may only be reproduced or transmitted electronically in it's entirety. This report shall not be used to claim product endorsement by NIST, NVLAP or by any agency of the U.S. Government. All measurement equipment are calibrated with instrumentation traceable to the NIST.

Use these laboratory-derived attenuation data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.

Kevin Michael, Ph.D.

Khhhr

President

12/19/05 Date

Individual and Summary Attenuation Data for Hearing Protective Devices

Test Method: ANSI S3.19-1974 Position: Insert

Date: 12/19/05

Madal	ED 06						Toot ID	#	OOSEA
Model:	EP-06						Test ID	#	Q965A
				FREQUE	ENCY IN I	HERIZ			
SUBJECT	125	250	500	1000	2000	3150	4000	6300	8000
	17	23	28	24	32	32	27	31	34
1	28	30	29	26	33	34	31	33	34
	17	26	25	29	31	33	28	31	33
	25	28	32	30	33	33	34	29	30
2	22	26	30	27	31	30	31	30	34
	23	26	33	30	33	42	40	38	38
	21	22	24	25	32	30	33	37	42
3	29	31	30	26	28	34	34	38	49
	29	26	31	27	30	32	34	43	42
	33	35	29	25	30	33	31	37	36
4	35	37	33	28	33	40	41	44	45
	27	32	30	28	32	33	33	33	34
	34	32	31	29	29	29	32	32	34
5	33	33	31	29	26	31	32	36	43
	33	34	34	29	26	30	27	29	39
	31	28	27	31	32	31	31	43	40
6	35	29	29	29	29	33	32	42	42
	31	29	29	26	26	27	28	31	43
	24	23	22	25	28	27	33	35	35
7	24	24	28	25	30	31	37	40	36
	26	26	28	30	29	28	33	43	46
	36	32	37	30	33	44	42	48	48
8	30	23	30	28	32	36	32	41	47
	25	23	23	25	31	35	33	37	37
	16	23	26	23	32	35	32	33	39
9	26	24	35	27	32	35	28	36	46
	18	21	26	24	26	29	26	33	35
	28	32	34	40	35	35	26	36	42
10	32	37	34	38	35	34	28	45	45
	26	25	34	36	29	34	31	40	46
MEANS	27.1	28.0	29.7	28.3	30.7	32.9	32.0	36.9	39.8
STD. DEV.	5.8	4.6	3.7	3.9	2.6	4.0	4.1	5.2	5.4

21 dB NRR =

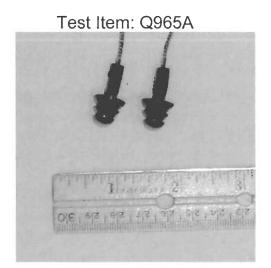
Use these laboratory-derived data for comparison purposes only. The amount of protection afforded in field use is often significantly lower depending on how the protectors are fitted and worn.

Date: 12/19/05 Test ID: Q965A

Model: **EP-06** Position: Insert

Measurements were made according to American National Standards Institute Specifications ANSI S3.19-1974.

Center Frequency in Hz	Mean Attenuation in dB	Group Attenuation in dB	Standard Deviation in dB
125	27.1	55.1	5.8
250	28.0		4.6
500	29.7		3.7
1000	28.3		3.9
2000	30.7	153.6	2.6
3150	32.9		4.0
4000	32.0		4.1
6300	36.9	76.7	5.2
8000	39.8		5.4



These data were obtained through measurements made at the laboratories of Michael & Associates, Inc., State College, PA, USA. Michael & Associates, Inc., is accredited to test to ANSI S3.19-1974 and ANSI S12.6-1997 by the National Institute of Standards and Technology (NIST) National Voluntary Laboratory Accreditation Program (NVLAP).

Kevin L. Michael, Ph.D.

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President

12/14/05-Date