



***This Certificate details the results of Hearing Protector testing carried out by  
 The National Acoustic Laboratories***

**NAL Certificate No:** 040708      **Test Series:** 140A

**Device Tested:** HSP- 7 Helmet Mounted  
 Communications Earmuff

**Manufactured By:** Mobile One

**Date Tested:** 12th July 2004 to  
 16th August 2004

**Test Commissioned By:** Mobile One Australia P/L



**Description of  
 Device Tested:**

Helmet mounted communications earmuff with dark-green plastic earcups and soft black combination plastic foam-fill/oil-sac earpads. Grey foam infill containing communications earphones and wiring. Rigid black plastic swivel attachments connecting the earcups to the dual steel wire helmet attachment enabling earcup height and angle adjustment. Earcup interconnection wiring passes through the inside of the helmet above the webbing. Coaxial connector for detachable microphone boom, "PTT" switch, and wiring terminated on LEFT earcup. Earmuffs mounted on Protector HC600 safety helmet.

***This hearing protector device has been tested mechanically, and its sound attenuation was measured in accordance with Australian and New Zealand Standard AS/NZS 1270-2002.***

Mean Reference Thresholds re 20uPa						
125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
32.3	24.1	12.9	9.7	8.8	6.7	11.6

Subject ID	Real-ear attenuation values (dB) at designated octave frequencies						
	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz
S1	22	20	19	32	35	40	41
S2	18	19	29	30	33	41	43
S3	24	22	28	34	39	45	44
S4	16	19	26	32	32	38	40
S5	12	18	28	26	36	33	38
S6	10	16	27	26	40	42	45
S7	17	19	28	29	33	38	34
S8	14	20	29	28	30	42	43
S9	11	18	26	35	34	39	45
S10	14	20	26	31	39	34	37
S11	18	18	30	33	40	30	35
S12	17	21	25	27	34	39	41
S13	20	25	28	39	34	34	39
S14	8	15	23	28	38	37	42
S15	10	17	26	31	35	38	38
S16	18	24	23	23	35	45	49
S17	13	22	26	31	34	31	31
<b>Mean</b>	<b>15.4</b>	<b>19.5</b>	<b>26.3</b>	<b>30.3</b>	<b>35.3</b>	<b>37.9</b>	<b>40.2</b>
<b>Standard Deviation</b>	<b>4.4</b>	<b>2.7</b>	<b>2.7</b>	<b>3.8</b>	<b>2.8</b>	<b>4.4</b>	<b>4.5</b>
<b>Mean minus SD</b>	<b>11.0</b>	<b>16.8</b>	<b>23.6</b>	<b>26.5</b>	<b>32.5</b>	<b>33.5</b>	<b>35.7</b>



Accredited for AS/NZS 1270:2002  
 Registered Lab No. 5472

<b>SLC80 Rating</b>	<b>28</b>	<b>Average total mass of device = 726g (Mass of Helmet = 350g)</b>
<b>CLASS</b>	<b>5</b>	
<b>Clamping Force</b>	<b>11 Newtons</b>	

**Signatory:**  **Dated:** 18/8/04  
 (Geoff Colin Thome, NAL Research, Acoustic Test Facility)

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