DECLARATION OF COMPLIANCE
SAR RF EXPOSURE EVALUATION

Test Lab

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Applicant Information

M/A-COM, INC.
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Rule Part(s):	**FCC 47 CFR §2.1093; IC RSS-102, Issue 1 (Provisional)**
Test Procedure(s):	**FCC OET Bulletin 65, Supplement C (Edition 01-01)**
FCC Device Classification:	**Licensed Non-Broadcast Transmitter Held to Face (TNF)**
Device Type:	**Portable FM PTT Radio Transceiver**
FCC IDENTIFIER:	**BV8P800**
Model(s):	**P800**
Modulation Tested:	**FM (Analog Voice)**
Tx Frequency Range(s) Tested:	**851.0125 - 868.9875 MHz (Talkaround)**
Max. RF Output Power Tested:	**2.82 Watts Conducted (861.3625MHz)**
Antenna Type(s) Tested:	**½ Wave Helical Whip (P/N: MAHROS0006)**
Battery Type(s) Tested:	**NiCd 7.2V, 1500mAh (Kenwood P/N: KNB-17A)** **NiMH 7.2V, 2100mAh (Kenwood P/N: KNB-22N)**
Body-Worn Accessories Tested:	**Metal Belt-Clip (Kenwood P/N: J29-0652-35)** **Leather Holster (P/N: MAHROS0013)** **Swivel Belt-Loop (P/N: MAHROS0041)** **T-Strap hold down (P/N: MAHROS0042)** **Earphone (P/N: OT-V1-10291)** **Audio Adapter (P/N: OT-V1-10430)** **Evolution Speaker-Microphone (P/N: MC102823V1)** **Over-the-Head Headset (P/N: OT-V4-10080)**
Max. SAR Levels (scaled to 3 Watts):	**0.810 W/kg Face-held (50% Duty Cycle)** **3.53 W/kg Body-worn (50% Duty Cycle)**

Celltech Labs Inc. declares under its sole responsibility that this wireless portable device has demonstrated compliance with the Specific Absorption Rate (SAR) RF exposure requirements specified in FCC 47 CFR §2.1093 and Health Canada's Safety Code 6. The device was tested in accordance with the measurement standards and procedures specified in FCC OET Bulletin 65, Supplement C (Edition 01-01) and Industry Canada RSS-102, Issue 1 (Provisional) for the Occupational / Controlled Exposure environment. All measurements were performed in accordance with the SAR system manufacturer recommendations.

I attest to the accuracy of data. All measurements were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

Russell W. Pipe
Senior Compliance Technologist
Celltech Labs Inc.

4.0 SAR MEASUREMENT SUMMARY

SAR MEASUREMENT RESULTS

Test Date	Test Type	Freq. (MHz)	Chan.	Test Mode	Batt. Type	Body-Worn Accessories	Separation Distance to Planar Phantom (cm)	Conducted Power Before Test (Watts)	SAR Drift During Test (dB)	Measured SAR 1g (W/kg) Duty Cycle 100%	Measured SAR 1g (W/kg) Duty Cycle 50%	Scaled SAR (3W) 1g (W/kg) Duty Cycle 100%	Scaled SAR (3W) 1g (W/kg) Duty Cycle 50%
03/24/04	Face	861.3625	Mid	CW	NiCd	--	2.5	2.80	0.120	1.42	0.710	1.62	0.810
03/24/04	Face	861.3625	Mid	CW	NiMH	--	2.5	2.78	0.170	1.38	0.690	1.60	0.800
03/23/04	Body	861.3625	Mid	CW	NiCd	Metal Belt-Clip Speaker-Microphone	1.2	2.82	0.686	6.69	3.35	6.87	3.44
03/23/04	Body	861.3625	Mid	CW	NiCd	Metal Belt-Clip Earphone & Adapter	1.2	2.80	0.647	6.71	3.36	6.91	3.46
03/23/04	Body	861.3625	Mid	CW	NiCd	Metal Belt-Clip Headset	1.2	2.64	0.670	6.70	3.35	7.06	3.53
03/23/04	Body	861.3625	Mid	CW	NiMH	Metal Belt-Clip Speaker-Microphone	1.2	2.74	0.689	6.72	3.36	6.98	3.49
03/23/04	Body	861.3625	Mid	CW	NiMH	Metal Belt-Clip Earphone & Adapter	1.2	2.70	0.597	6.48	3.24	6.78	3.39
03/23/04	Body	861.3625	Mid	CW	NiMH	Metal Belt-Clip Headset	1.2	2.75	0.577	6.61	3.31	6.86	3.43
03/23/04	Body	861.3625	Mid	CW	NiMH	Holster, Belt-Loop, T-Strap, Speaker-Mic	4.0	2.68	0.412	1.36	0.680	1.68	0.840

ANSI / IEEE C95.1 1999 - SAFETY LIMIT
FACE / BODY: 8.0 W/kg (averaged over 1 gram)
Spatial Peak - Controlled Exposure / Occupational

Dielectric Constant ε_r	**861 MHz Brain**		**861 MHz Body**		**Ambient Temperature**	Brain	22.9 °C	Body	25.1 °C
	IEEE Target	**Measured**	**IEEE Target**	**Measured**	**Fluid Temperature**	Brain	21.8 °C	Body	20.5 °C
	41.5 (± 5%)	40.2	**55.1 (± 5%)**	53.5	**Relative Humidity**	Brain	54 %	Body	31 %
Conductivity σ (mho/m)	**861 MHz Brain**		**861 MHz Body**		**Atmospheric Pressure**	Brain	100.8 kPa	Body	100.8 kPa
	IEEE Target	**Measured**	**IEEE Target**	**Measured**	**Fluid Depth**	Brain	≥ 15 cm	Body	≥ 15 cm
	0.91 (± 5%)	0.92	**0.98 (± 5%)**	1.02	**ρ (Kg/m^3)**	Brain	1000	Body	1000

Note(s):

1. The measurement results were obtained with the DUT tested in the conditions described in this report. Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in Appendix A.
2. If the SAR measurements performed at the mid channel were ≥ 3dB below the SAR limit, SAR evaluation for the low and high channels was optional (per FCC OET Bulletin 65, Supplement C, Edition 01-01 (see reference [3]).
3. The DUT was evaluated for body-worn SAR with 1.2 cm Metal Belt-Clip accessory. An additional body-worn SAR evaluation was performed for the worst-case configuration (Metal Belt-Clip & Speaker-Microphone accessories, NiMH battery) with the 4.0 cm Leather Holster, Swivel Belt-Loop, & T-Strap Hold Down accessories.
4. The ambient and fluid temperatures were measured prior to, and during, the fluid dielectric parameter check and the SAR evaluation. The temperatures listed in the table above were consistent for all measurement periods.
5. The dielectric parameters of the simulated tissue fluids were measured prior to the evaluation using an 85070C Dielectric Probe Kit and an 8753E Network Analyzer (see Appendix E for printout of measured fluid dielectric parameters).
6. The target dielectric parameters of the simulated tissue fluids for 861MHz were interpolated from the IEEE target dielectric parameters at 835MHz to 900MHz.
7. SAR measurements were performed within 24 hours of the system peformance check.