REPORT NO: 01I1085-4 DATE: JANUARY 15, 2002 FCC ID: PDHGMRS-1200

EUT: GMRS TRANSCEIVER

Worst case SAR in each test configuration

1. Face held configuration (liquid depth: 15.1 cm)

| Mode | Liquid | Ch | Freq [MHz] | Liquid Temp [°C] | Conducted Power [dBm] | | Worst case SAR, averaged over 1g [mW/g] | | | | |
|------|----------------|----|---------------|------------------------|--------------------------|-------|---|------------|------------|------------|-------|
| | | | | | Before | After | Set-up condition | | Measured | Corrected* | Limit |
| | | | | | | | Antenna | Sep. dist. | ivicasurcu | Corrected | LIIII |
| CW | Head 450MHz | 11 | 462.5500 | 21.7 | 33.6 | 32.3 | Fixed | 25 mm | 0.799 | 1.078 | 8 |

Due to the power loss over the testing duration, the final SAR value has been scale up to compensated for $0.799 \times 10^{(33.6-32.3)/10)} = 1.078$

2. Body worn configuration (liquid depth: 15.2 cm)

| Mode | Liquid | Ch | Freq [MHz] | Liquid Temp [°C] | Conducted Power [dBm] | | Worst case SAR, averaged over 1g [mW/g] | | | | |
|------|------------------|----|---------------|------------------------|--------------------------|-------|---|-----------------------|----------|------------|-------|
| | | | | | Before | After | Set-up condition | | | Corrected* | |
| | | | | | | | Antenna | Phantom Sep. dist. | Measured | Corrected* | Limit |
| CW | Muscle 450MHz | 11 | 462.5500 | 21.1 | 33.6 | 32.3 | Fixed | 2 mm | 1.55 | 2.09 | 8 |

Due to the power loss over the testing duration, the final SAR value has been scale up to compensated for $1.55 \times 10^{((33.6-32.3/10))} = 2.09$

Measurement Results

Face held configuration (liquid depth: 15.1 cm)

| - | | | | | | | | | | |
|------|----------------|----|---------------|------------------------|--------------------------|-------|---|--------------------|----------|-------|
| Mode | Liquid | Ch | Freq [MHz] | Liquid Temp [°C] | Conducted Power [dBm] | | Worst case SAR, averaged over 1g [mW/g] | | | |
| | | | | | Before | After | Set-up condition | | | |
| | | | | | | | Antenna | Sep. dist. (mm) | Measured | Limit |
| CW | Head 450MHz | 11 | 462.5500 | 21.7 | 33.6 | 32.3 | Fixed | 25 | 0.799 | 8 |
| CW | Head 450MHz | 15 | 462.7250 | 21.8 | 33.2 | 32.1 | Fixed | 25 | 0.777 | 8 |

Body worn configuration (liquid depth: 15.2 cm)

| Body Worm Configuration (Inquire depth. 16.2 cm) | | | | | | | | | | | |
|--|------|------------------|----|---------------|--------------------------|--------|---|------------------|-------------------------------|----------|-------|
| Mode | | | | | Conducted Power [dBm] | | Worst case SAR, averaged over 1g [mW/g] | | | | |
| | Mode | Liquid | Ch | Freq [MHz] | Liquid Temp [°C] | Before | After | Set-up condition | | | |
| | mode | | | | | | | Antenna | Phantom Sep. dist. (mm) | Measured | Limit |
| | CW | Muscle 450MHz | 11 | 462.5500 | 21.1 | 33.6 | 32.3 | Fixed | 2 | 1.55 | 8 |
| | CW | Muscle 450MHz | 15 | 462.7250 | 21.0 | 33.2 | 32.1 | Fixed | 2 | 1.50 | 8 |

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