| MPE Calculator | Hopkins Alert | System (BB005) | Test 081001 | | |
|---------------------|--|----------------------------------|-----------------------|---------------|--------------------|
| MPE uses EIRP for | | P is based on TX power adde | d to the antenna | gain in dBi | |
| | | FF | | | |
| | dBi = dB gain con | npared to an isotropic radiator. | | | |
| | - | ower density in mW/cm^2 | | a Gain (dBi) | 1 |
| | | | dBd + 2.17 = dBi | | |
| | | Output Power | | dBi to dBd | 2.1 |
| Tx Frequency (MHz) | 418 | (Watts) | 0.000003 | | -1.1 |
| | | (dBm) | -24.93 | | |
| Cable Loss (dB) | 0.0 | | Antenna minus | s cable (dBi) | 1.00 |
| - | | | | | |
| Calculated ERP (mw) | | | | 1 (ERP) dBm | -26.09 |
| Ca | alculated EIRP (mw) | 0.004 | Radiated | (EIRP) dBm | -23.92 |
| | 0 | D 1 2 (0) | | | |
| 1.3933 | Occupational Limit 3 mW/cm ² | Power density (S) EIRP | | | |
| 1.5755 | S mw/cm | $= mW/cm^2$ | | | |
| G | eneral Public Limit | | | | |
| 0.2786 | | r (cm) EIRP (mW) | | | |
| 012100 | | | | | |
| | | FCC radio frequency radiation | exposure limits per l | .1310 | |
| | | Frequency (MHz) | Occupational Limit | | |
| | | 300-1,500 | f/300 | f/1500 | |
| | | 1,500-10,000 | 5 | 1 | |
| | | | | | |
| | | FCC radio frequency radiation | exposure limits per l | .1310 | |
| | | | Occupational Limit | | |
| | | 5 | @ Tx Freq | @ Tx Freq | |
| | | Frequency (MHz) | (mW/cm^2) | (mW/cm^2) | |
| | | 300-1,500 | 1.393333333 | 0.2786667 | |
| | | 1,500-10,000 | 5 | 1 | |
| | | EIRP | Distance | Distance | s |
| | | milliwatts | cm | inches | mW/cm |
| | | 0.004 | 50.00 | 19.69 | 0.00000 |
| | | 0.004 | 25.00 | 9.84 | 0.00000 |
| | | 0.004 | 20.00 | 7.87 | 0.00000 |
| | | 0.004 | 15.00 | 5.91 | 0.00000 |
| | | 0.004 | 10.00 | 3.94 | 0.00000 |
| | | 0.004 | 9.00 | 3.54 | 0.00000 |
| | | 0.004 | 8.00 | 3.15 | 0.00001 |
| | | 0.004 | 7.00 | 2.76 | 0.00001 |
| | | 0.004 | 6.00 | 2.36 | 0.00001 |
| | | 0.004 | 5.00 | 1.97 | 0.00001 |
| | | 0.004 | 4.00 | 1.57 | 0.00002 |
| | | 0.004 | 3.00 | 1.18 | 0.00004 |
| | | 0.004 | 2.00 | 0.79 | 0.00008 |
| | | 0.004 | 1.00 | 0.39 | 0.00032 |
| | | 0.004 | 0.90 | 0.35 | 0.00040 |
| | | 0.004 | 0.75 | 0.30 | 0.00057 |
| | | 0.004 | 0.50 | 0.20 | 0.00129 |
| | | 0.004 | 0.25 | 0.10 | 0.00515 0.03220 |
| | | 0.004 | 0.10 | 0.04 | 0.03220 |
| | | | | | |
| | | | | | |
| | | | | Public Limit | |
| | | | Occupational Limit | | |
| | | P 0005 | minimum Distance | distance | |
| | | Frequency (MHz) | (em) | (cm) | |
| | | 300-1,500 | N/A | 0.10 | |
| | | 1,500-10,000 | N/A | N/A | |

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Hopkins Manufacturing Corp. Model: Alert System (BB005) Test #:081001 Test to: FCC Parts 2 and 15.231e and RSS-210 BB005 RFExp FCC ID: TJJ-BB005 IC: 6047A-BB005