August 25, 2013

RF Exposure / MPE Calculation

No. : 123-ABCD

Applicant : **ABC LIMITED**

Type of Equipment : **Car Audio**

Model No. : **ABC-123**

FCC ID : **＊＊＊**

ABC LIMITED declares that Model : ABC-123

complies with FCC radiation exposure requirement specified in the FCC Rules 2.1091 (for mobile).

RF Exposure Calculations: ←

The following information provides the minimum separation distance for the highest gain antenna provided with the "ABC-123 " as calculated

from (B) Limits for General Population / Uncontrolled Exposure of

TABLE 1- LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE) of §1.1310

Radiofrequency

radiation exposure limits.

This calculation is based on the highest EIRP possible from the system,

considering maximum power and antenna gain, and considering a 1.0mW/cm^2 uncontrolled exposure limit. The Friis formula used was:

$$S = (P * G) / (4* \pi * r^2)$$

Where

P = 100.0 mW (Maximum peak output power)

G = 0.50 Numerical Antenna gain; equal to -3.0 dBi

r = 20.0 cm

For: ABC-123 S = 0.01 mW/cm^2

Thank you for your attention to this matter.

Taro UL

Manager of ISE EMC Lab.

UL Verification Services Inc.