

RF EXPOSURE REPORT

REPORT NO.: SA110211E04

MODEL NO.: AL-AP48H-15SO,
AL-AP48H-23SO

FCC ID: V8IETC- ALAP48X

ACCORDING: FCC Guidelines for Human Exposure
IEEE C95.1

APPLICANT: Emitech Corporation

ADDRESS: NO.156-5A, Chenggong 1st St., Jhubei City,
Hsinchu County 302, Taiwan (R.O.C)

ISSUED BY: Bureau Veritas Consumer Products Services (H.K.)
Ltd., Taoyuan Branch Hsin Chu Laboratory

LAB ADDRESS: No. 81-1, Lu Liao Keng, 9th Ling, Wu Lung Tsuen,
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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA110211E04	Original release	June 22, 2011

1.CERTIFICATION

PRODUCT: 500mW Hi Power 5 GHz 11a AP/CPE
BRAND NAME: N/A
MODEL NO.: AL-AP48H-15SO, AL-AP48H-23SO
TEST SAMPLE: MASS-PRODUCTION
APPLICANT: Emitech Corporation
STANDARDS: IEEE C95.1

The above equipment (Model: AL-AP48H-15SO) has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

PREPARED BY : Midoli Peng, **DATE:** June 22, 2011
(Midoli Peng, Specialist)

APPROVED BY : May Chen, **DATE:** June 22, 2011
(May Chen, Deputy Manager)

2.RF Exposure Limit

LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm ²)	AVERAGE TIME (minutes)
LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE				
300-1500	F/1500	30
1500-100,000	1.0	30

F = Frequency in MHz

3.MPE calculation Formula

$$P_d = (P_{out} \cdot G) / (4 \cdot \pi \cdot r^2)$$

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

4.Classification

The antenna of this product, under normal use condition, is at least 50cm away from the body of the user. So, this device is classified as **Mobile Device**.

5. Calculation result of maximum conducted power

Normal mode

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm ²)	LIMIT (mW/cm ²)
5.745 - 5.825	660.7	1.6	50	0.837	1.00

Turbo mode

FREQUENCY BAND (MHz)	MAX POWER (mW)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/ cm ²)	LIMIT (mW/cm ²)
5.745 - 5.825	645.7	1.6	50	0.818	1.00

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