

RF EXPOSURE REPORT

REPORT NO.: SA130912C02A

MODEL NO.: AK1

FCC ID: YA7-ATVT1240

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APPLICANT: ATrack Technology Inc.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA130912C02A	Original release	Oct. 09, 2013

1. CERTIFICATION

PRODUCT: Vehicle telematics

MODEL: AK1

BRAND: ATrack

APPLICANT: ATrack Technology Inc.

TEST SAMPLE: Identical Prototype

STANDARDS: FCC Part 2 (Section 2.1091)

FCC OET Bulletin 65, Supplement C (01-01)

IEEE C95.1

The above equipment (Model: AK1) 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.

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2. RF EXPOSURE

2.1 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

2.2 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

2.3 CLASSIFICATION

The antenna of this product, under normal use condition, is at least 20cm away from the body of the user. So, this device is classified as **Mobile Device**.

2.4 CALCULATION RESULT OF MAXIMUM CONDUCTED POWER

Frequency Band (MHz)	Operating Mode	Maximum Conducted (dBm)		Antenna Gain (dBi)	E.I.R.P. (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)
		Burst Avg. Power	Time Avg. Power				
GSM850	GPRS8	35	26	0	398.11	0.079	0.55
GSM1900	GPRS8	32	23	0	199.53	0.040	1