

RF EXPOSURE REPORT

REPORT NO.: SA131121C21

MODEL NO.: U3

FCC ID: RLS-STAVL1321

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APPLICANT: SYSTEMS & TECHNOLOGY CORP.

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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
SA131121C21	Original release	Dec. 05, 2013

1. CERTIFICATION

PRODUCT: GPS Vehicle Tracking Device

MODEL: U3

BRAND: CAREU

APPLICANT: SYSTEMS & TECHNOLOGY CORP.

TEST SAMPLE: PRODUCTION UNIT

STANDARDS: FCC Part 2 (Section 2.1091)

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

IEEE C95.1

The above equipment 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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Gina Liu / Specialist

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Roy Wu / Manager

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

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

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

Band	Operating Mode	Maximum Conducted (dBm)		Permitted Maximum Antenna Gain (dBi)	E.I.R.P. (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)
		Burst Avg. Power	Time Avg. Power				
GSM850	GPRS12	29.50	26.50	7.8	2691.53	0.54	0.55
GSM1900	GPRS12	26.34	23.34	13.6	4943.11	0.98	1.0
GSM850	EDGE33	29.16	26.16	8.2	2728.98	0.54	0.55
GSM1900	EDGE12	26.26	23.26	13.7	4965.92	0.99	1.0

Band	Maximum Conducted (dBm)	Permitted Maximum Antenna Gain (dBi)	E.I.R.P. (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)
WCDMA II	21.41	15.5	4909.08	0.98	1.0
WCDMA V	22.20	12.1	2691.53	0.54	0.55
WCDMA IV	22.39	14.5	4886.52	0.97	1.0