OET Bulletin 65 (MPE)
Test Report

Report No.: AGC01361140201FE07

FCC ID	:	2ABZQWT1
APPLICATION PURPOSE		Original Equipment
PRODUCT DESIGNATION	:	GSM Wireless Tracker
BRAND NAME	:	Kizy
TEST MODEL	:	K-1 GSM
CLIENT	:	Iclosion
DATE OF ISSUE	:	Mar. 06, 2014
STANDARD(S)	:	OET Bulletin 65
REPORT VERSION	:	V1.0

Attestation of Global Compliance (Shenzhen) Co., Ltd

Report Revise Record

Report Version	Revise Time	Issued Date	Valid Version	Notes
V1.0	/	Mar. 06, 2014	Valid	Original Report

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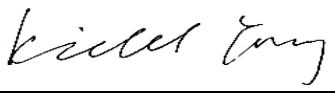
1. TEST RESULT CERTIFICATION

Applicant Name:	Iclosion
Address:	Avenue de Bellevaux 3, 2000 Neuchatel, Switzerland
Manufacturer Name:	SHENZHEN LEAGUER TELECOM CO., LTD.
Address:	1F,block Tsinghua information North Zone of Hi-tech industrial Nanshan District Shenzhen, P.R.C P.C.:518057
Product Designation	GSM Wireless Tracker
Brand Name	Kizy
Test Model	K-1 GSM
Hardware Version:	WT1_MB_P3_V02_1230
Software Version:	WT1_V05
Test Standard	OET Bulletin 65
Date of Test:	Feb.25,2014 to Mar. 01,2014

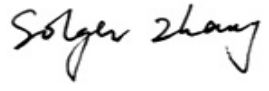
We (AGC), Attestation of Global Compliance (Shenzhen) Co., Ltd. for compliance with the requirements set forth in the FCC Standard OET Bulletin 65 (Edition 97-01) Supplement C (Edition 01-01). The results of testing in this report apply to the product/system which was tested only.

Tested by 

Bart Xie Mar. 06, 2014

Checked By 

Kidd Yang Mar. 06, 2014

Authorized By 

Solger Zhang Mar. 06, 2014

2. TECHNICAL INFORMATION

Note: the following data is based on the information by the applicant.

EUT DESCRIPTION

A major technical description of EUT is described as following:

Product Designation:	GSM Wireless Tracker
Hardware version:	WT1_MB_P3_V02_1230
Software version:	WT1_V05
Frequency Bands:	☒GSM 850 ☒PCS 1900 (U.S. Bands) ☒GSM 900 ☒DCS 1800 (Non-U.S. Bands)
Antenna:	PIFA Antenna
Antenna gain:	1.2dBi
Battery parameter:	DC3.7V/1200mAh
Output Power:	31.58 dBm Maximum Average Burst Power for GSM 850 28.49 dBm Maximum Average Burst Power for PCS 1900
Extreme Temp. Tolerance	-10℃ to +50℃
** Note: Products only for parcels to be tracked. The High Voltage DC 4.2V and Low Voltage DC 3.4V were declared by manufacturer, The EUT could not operate normally with higher or lower voltage.	

3. RF EXPOSURE MEASUREMENT

3.1 INTRODUCTION

Human exposure to RF emissions from mobile devices (47 CFR §2.1091) may be evaluated based on the MPE limits adopted by the FCC for electric and magnetic field strength and/or power density, as appropriate, since exposures are assumed to occur at distances of 20 cm or more from persons.

The 1992 ANSI/IEEE standard (See Listed limit table) specifies a minimum separation distance of 20 cm for performing reliable field measurements to determine adherence to MPE limits.

If the minimum separation distance between a transmitter and nearby persons is more than 20 cm under normal operating conditions, compliance with MPE limits may be determined at such distance from the transmitter. When applicable, operation instructions and prominent warning labels may be used to alert the exposed persons to maintain a specified distance from the transmitter or to limit their exposure durations and usage conditions to ensure compliance.

3.2 FCC LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm^2)	Averaging Time $\|E\|^2$, $\|H\|^2$ or S (Minutes)
0.3 -- 1.34	614	1.63	(100)*	30
1.34 -- 30	824/f	2.19/f	$(180/f^2)$*	30
30 -- 300	27.5	0.073	0.2	30
300 -- 1500	--	--	f/1500	30
1500 -- 100,000	--	--	1.0	30

*Note:

1. f= Frequency in MHz * Plane-wave Equivalent Power Density
2. The averaging time for General Population/Uncontrolled exposure to fixed transmitters is not applicable for mobile and portable transmitters. See 47 CFR §§2.1091 and 2.1093 on source-based time-averaging requirement for mobile and portable transmitters.

4. CLASSIFICATION OF THE ASSESSMENT METHODS

According to user manual, The antenna of the product, under normal use condition is at least 20cm away from the body of the user. Warning statement to the user for keeping at least 20cm separation distance and the prohibition of operating to a person has been printed on the user's manual. So, this product under normal use is located on electromagnetic far field between the human body.

$S=PG/4\pi R^2$
Where:
S=power density
P=power input to antenna
G=power gain of the antenna in the direction of interest relative to an isotropic radiator R=distance to the center of radiation of the antenna

5. EUT OPERATION CONDITION

Make the EUT to transmit at lowest, middle and highest channel individually.

6. TEST RESULTS

Note: report the worst result in this part

Antenna Gain=1.2dBi (Numeric 1.32), π=3.141

GSM 850

Frequency	Output Power	Output Power	Power Density	Power Density Limit	Result
MHz	dBm	mW	mW/cm^2	mW/cm^2	Pass/Fail
848.8	31.58	1438.80	0.38	0.57	Pass

PCS

Frequency	Output Power	Output Power	Power Density	Power Density Limit	Result
MHz	dBm	mW	mW/cm^2	mW/cm^2	Pass/Fail
1909.800	28.49	706.32	0.19	1.000	Pass

Note:

The output power is refer to AGC1361140201FE02.

According to the user manual, the minimum separate distance which used for MPE calculate is 20cm.