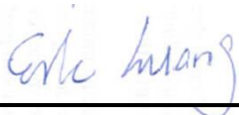


RF Exposure Evaluation Report

APPLICANT : TomTom International BV
EQUIPMENT : GPS Navigation System
BRAND NAME : TomTom
MODEL NAME : 4GE40
FCC ID : S4L4GE40
IC ID : 5767A-4GE40
STANDARD : 47 CFR Part 2.1093
FCC KDB 447498 D01 v05r02
IC RSS-102 Issue 4 (March 2010)

We, SPORTON INTERNATIONAL INC., would like to declare that the device has been evaluated in accordance with 47 CFR Part 2.1093, IC RSS-102 Issue 4 (March 2010), and pass the limit. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.



Reviewed by: Eric Huang / Deputy Manager



Approved by: Jones Tsai / Manager



SPORTON INTERNATIONAL INC.

No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.)



Table of Contents

1.	Administration Data	3
2.	General Information	3
2.1	Description of Device Under Test (DUT)	3
3.	Maximum RF output power among production units	4
4.	RF Exposure Evaluation	4

Revision History

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FA511219	Rev. 01	Initial issue of report	Feb. 13, 2015

1. Administration Data

Testing Laboratory	
Test Site	SPORTON INTERNATIONAL INC.
Test Site Location	No.52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978

Applicant	
Company Name	TomTom International BV
Address	De Ruijterkade 154, 1011 AC Amsterdam The Netherlands

Manufacturer	
Company Name	Tech-Giant (Shanghai) Computer Co., Ltd
Address	C#,No.1, South Rongteng Road , Songjiang Export Processing Zone, Shanghai, China

2. General Information

2.1 Description of Device Under Test (DUT)

Product Feature & Specification	
DUT Type	GPS Navigation System
Brand Name	TomTom
Model Name	4GE40
FCC ID	S4L4GE40
IC ID	5767A-4GE40
Wireless Technology and Frequency Range	Bluetooth: 2402 MHz ~ 2480 MHz
Mode	• Bluetooth v2.1+EDR
Antenna Type	Ground Chip Antenna
HW Version	PR2
SW Version	14.600
DUT Stage	Production Unit

Remark: The above DUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

3. Maximum RF output power among production units

Mode / Band	Average Power (dBm)
	v2.1+EDR
2.4GHz Bluetooth	4.0

4. RF Exposure Evaluation

Bluetooth Max Power (dBm)	mW	Separation Distance (mm)	Frequency (GHz)	Exclusion Thresholds
4.00	3.00	5	2.48	0.94

Note:

- Per KDB 447498 D01v05r02, the 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at *test separation distances* ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison

Conclusion:

- According to KDB 447498 D01v05r02 exclusion thresholds is $0.94 < 3$, RF exposure evaluation is not required.
- For IC, according to RSS-102 Clause 2.5.1, Bluetooth Max output power is 4.00dBm, antenna gain is 1.72dBi, and EIRP is 5.72dBm, (EIRP = Average power + Gain) both conducted power and radiated power are smaller than 20mw. Therefore, stand-alone SAR is excluded, and the consideration of simultaneous transmission with Bluetooth is exempt.