

RF Exposure Report

Report No.: SA171003C10C

FCC ID: S4L4FIC00

Test Model: 4FIC00

Received Date: Oct. 03, 2017

Test Date: Oct. 25 ~ Nov. 07, 2017

Issued Date: Nov. 09, 2017

Applicant: TomTom International B.V.

Address: De Ruijterkade 154, 1011 AC Amsterdam The Netherlands

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch

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(R.O.C.)

Test Location (1): No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City

33383, TAIWAN (R.O.C.)

Test Location (2): No.215, Sec. 3, Beixin Rd., Xindian Dist., New Taipei City 231, Taiwan,

R.O.C

FCC Registration / 427177 / TW0011

Designation Number:





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Release Control Record

Issue No.	Description	Date Issued
SA171003C10C	Original release	Nov. 09, 2017

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1 Certificate of Conformity

Product: TomTom BRIDGE Hub

Brand: TOMTOM

Test Model: 4FIC00

Sample Status: Pre-MFB build sample

Applicant: TomTom International B.V.

Test Date: Oct. 25 ~ Nov. 07, 2017

Standards: FCC Part 2 (Section 2.1091)

KDB 447498 D01 General RF Exposure Guidance v06

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.

Prepared by: () I M o C M o M Date: Nov 09 2017

Celine Chou / Specialist

Approved by : , Date: Nov. 09, 2017

Ken Liu / Senior Manager



2 RF Exposure

2.1 Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	, ,		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

 $Pd = (Pout*G) / (4*pi*r^2)$

where

Pd = power density in mW/cm²

Pout = output power to antenna in mW

G = gain of antenna in linear scale

Pi = 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.

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3 Calculation Result of Maximum Conducted Power

Function	Frequency Band (MHz)	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm²)	Limit (mW/cm²)
	2412-2462	19.23	1.69	20	0.025	1
	5180-5240	12.98	3.11	20	0.008	1
WLAN	5260-5320	12.97	3.11	20	0.008	1
	5500-5700	12.95	3.11	20	0.008	1
	5745-5825	12.95	3.11	20	0.008	1
ВТ	2402-2480	2.62	1.69	20	0.001	1
BT LE	2402-2480	2.58	1.69	20	0.001	1

Conclusion:

WLAN (2.4GHz or 5GHz) and BT (BT EDR or BT LE) technology can transmit simultaneously.

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

WALN 2.4GHz + BT = 0.025 / 1 +0.001 / 1 = 0.026

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