

RF Exposure Report

Report No.: SA191220D02

FCC ID: OXM000101

Test Model: DOCK810

Received Date: Dec. 20, 2019

Test Date: Mar. 5 to 24, 2020

Issued Date: Apr. 1, 2020

Applicant: Targus International LLC

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

Issue No.	Description	Date Issued
SA191220D02	Original release.	Apr. 1, 2020

1 Certificate of Conformity

Product: Smart Dock, DV4K, Type-C PD 100W with 90W legacy charging

Brand: Targus

Test Model: DOCK810

Sample Status: Engineering sample

Applicant: Targus International LLC

Test Date: Mar. 5 to 24, 2020

Standards: FCC Part 2 (Section 2.1091)

IEEE C95.3 -2002

References Test Guidance: KDB 447498 D01 General RF Exposure Guidance v06

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 RF characteristics under the conditions specified in this report.

Prepared by :



, **Date:** Apr. 1, 2020

Jessica Cheng / Senior Specialist

Approved by :



, **Date:** Apr. 1, 2020

Rex Lai / Associate Technical 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				
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

f = Frequency in MHz ; *Plane-wave equivalent power density

2.2 MPE Calculation Formula

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

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**.

2.4 Calculation Result of Maximum Conducted Power

Frequency Band (MHz)	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
2412-2462	0.53	2.1	20	0.0004	1
5180-5240	10.27	2.1	20	0.0034	1
2402 -2480 (BT LE)	3.80	1.5	20	0.0007	1

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. 2.4GHz and 5GHz modes cannot transmit simultaneously.

Conclusion:

The formula of calculated the MPE is:

$$CPD1 / LPD1 + CPD2 / LPD2 + \dots \text{etc.} < 1$$

CPD = Calculation power density

LPD = Limit of power density

$$WLAN 5GHz + BTLE = 0.0034 + 0.0007 = 0.0041$$

Therefore the maximum calculations of above situations are less than the "1" limit.

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