

# **FCC SAR Exclusion Report**

Report No.	: SA150714C08A
Applicant	: HTC Corporation
Address	: 1F, 6-3 Baoqiang Road, Xindian District, New Taipei City, Taiwan 231
Product	: Fitness Band
Brand	: HTC
FCC ID	: NM82PPN
Model No.	: 2PPN
Standards	: FCC 47 CFR Part 2 (2.1093) / IEEE C95.1:1992 / IEEE 1528:2003 IEEE 1528a-2005 / KDB 865664 D01 v01r03 / KDB 865664 D02 v01r01 / KDB 447498 D01 v05r02
Sample Received Date	: Jul. 14, 2015
Date of Evaluation	: Jul. 29, 2015

**CERTIFICATION:** The above equipment have been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch – Lin Kou Laboratories**, 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 SAR characteristics under the conditions specified in this report. It should not be reproduced except in full, without the written approval of our laboratory. The client should not use it to claim product certification, approval, or endorsement by TAF or any government agencies.

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Testing Laboratory 2021

Approved By :

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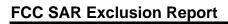
### FCC SAR Exclusion Report



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## **Release Control Record**

Reason for Change	Date Issued
Initial release	Jul. 29, 2015



## 1. Summary of Maximum SAR Value

Equipment Class	Mode	Highest Reported SAR <sub>1q</sub> (5 mm Gap) (W/kg)
DSS	Bluetooth	Not Required

Note:

1. The SAR limit (Head & Body: SAR<sub>1g</sub> 1.6 W/kg) for general population / uncontrolled exposure is specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992.



## 2. Description of Equipment Under Test

Fitness Band
HTC
NM82PPN
2PPN
Bluetooth : 2402 ~ 2480
Biueloolii . 2402 ~ 2400
Bluetooth : GFSK, π/4-DQPSK, 8-DPSK
Bluetooth : 3.5
PIFA Antenna
Production Unit

#### Note:

1. The above EUT information is declared by manufacturer and for more detailed features description please refers to the manufacturer's specifications or User's Manual.



### 3. SAR Measurement Evaluation

#### 3.1 Maximum Output Power

The maximum average conducted power (Unit: dBm) including tune-up tolerance is shown as below.

Mode	2.4G Bluetooth
Bluetooth	3.5

#### 3.2 SAR Testing Exclusions

According to KDB 447498 D01, the SAR test exclusion condition is based on source-based time-averaged maximum conducted output power, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions. The SAR exclusion threshold is determined by the following formula.

1. For the test separation distance <= 50 mm

$$\frac{\text{Max. Tune up Power}_{(mW)}}{\text{Min. Test Separation Distance}_{(mm)}} \times \sqrt{f_{(GHz)}} \leq 3.0$$

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

2. For the test separation distance > 50 mm, and the frequency at 100 MHz to 1500 MHz

$$\left[ \text{(Threshold at 50 mm in Step 1)} + \text{(Test Separation Distance} - 50 mm) \times \left( \frac{f_{(MHz)}}{150} \right) \right]_{(mW)}$$

3. For the test separation distance > 50 mm, and the frequency at > 1500 MHz to 6 GHz

[(Threshold at 50 mm in Step 1) + (Test Separation Distance -50 mm) × 10]<sub>(mW)</sub>

Mode	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Tune-up Power (mW)	Ant. to Surface (mm)	Calculated Result	Require SAR Testing?
BT	2.48	3.5	2.24	5	0.7	No

#### Note:

1. When separation distance <= 50 mm and the calculated result shown in above table is <= 3.0, the SAR testing exclusion is applied.

2. When separation distance > 50 mm and the device output power is less than the calculated result (power threshold, mW) shown in above table, the SAR testing exclusion is applied.

#### Summary:

Since the SAR testing for all device orientations apply SAR test exclusion per KDB 447498, SAR testing for this device is not required.



## 4. Information on the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

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The road map of all our labs can be found in our web site also.

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