

RF Exposure Report

Report No.: SA180323C16F

FCC ID: 2APRXH2C

Test Model: H2C

Series Model: H3C

Received Date: Mar. 11, 2020

Test Date: Mar. 23 to 30, 2020

Issued Date: Apr. 6, 2020

Applicant: Western Digital Technologies, Inc

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

Issue No.	Description	Date Issued
SA180323C16F	Original release.	Apr. 6, 2020

1 Certificate of Conformity

Product: ibi Wireless

Brand: SanDisk

Test Model: H2C

Series Model: H3C

Sample Status: Engineering sample

Applicant: Western Digital Technologies, Inc

Test Date: Mar. 23 to 30, 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. 6, 2020

Celia Chen / Supervisor

Approved by :



Date: Apr. 6, 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

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

where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 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 Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
1TX					
WLAN: 2412-2462	17.31	2.14	20	0.018	1
BT LE: 2402-2480	5.75	2.14	20	0.001	1
2TX					
WLAN: 2412-2462	17.18	5.15	20	0.034	1
WLAN: 5180-5240	19.26	6.20	20	0.070	1
WLAN: 5745-5825	19.22	5.33	20	0.057	1
WLAN: 5260-5320	19.11	5.69	20	0.060	1
WLAN: 5500-5700	19.15	4.86	20	0.050	1

Note:

- Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 2.4GHz Band:
1TX: Antenna gain: 2.14dBi
2TX: Directional gain = 2.14dBi+10log(2)=5.15dBi
- 5.0GHz Band:
2TX:
5180-5240MHz: Directional gain = 3.19dBi+10log(2)=6.20dBi
5745-5825MHz: Directional gain = 2.32dBi+10log(2)=5.33dBi
5260-5320MHz: Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}})^2 / 2] = 5.69\text{dBi}$
5500-5700MHz: Directional gain = $10 \log[(10^{\text{Chain0/20}} + 10^{\text{Chain1/20}})^2 / 2] = 4.86\text{dBi}$
- WLAN 2.4GHz & WLAN 5GHz & BT LE cannot transmit simultaneously.

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