RF Exposure Report

Report No.:	SA180323C16
FCC ID:	2APRXH2C
Test Model:	H2C
Series Model:	H3C
Received Date:	Mar. 23, 2018
Test Date:	Apr. 02 ~ Apr. 18, 2018
Issued Date:	Apr. 25, 2018
Applicant:	Western Digital Technologies, Inc
Address:	3355 Michelson Dr #100, Irvine, CA 92612
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan, 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. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan (R.O.C.)

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The report must not be used by the client to claim product certification, approval, or endorsement by TAF or any government agencies.

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Release Control Record

Issue No.	Description	Date Issued
SA180323C16	Original release.	Apr. 25, 2018

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:	Apr. 02 ~ Apr. 18, 2018
Standards:	FCC Part 2 (Section 2.1091) KDB 447498 D03 (January 17, 2014) 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 : Polly Chien , **Date:** Apr. 25, 2018

Polly Chien / Specialist

Approved by : Bruce Chen , **Date:** Apr. 25, 2018

Bruce Chen / Project Engineer

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				
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/cm^2

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.

3 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

Note:
2.4GHz Band:
1TX: Antenna gian: 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
5745-5825 MHz: Directional gain = 2.32dBi+10log(2)=5.33dBi

*WLAN 2.4GHz & WLAN 5GHz & BT LE cannot transmit simultaneously.

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