RF Exposure Report

Report No.:	SA170731C02
FCC ID:	2ACTO-7922DMC
Test Model:	7922DMC
Received Date:	Jul. 31, 2017
Test Date:	Oct. 17 ~ Nov. 30, 2017
Issued Date:	Dec. 12, 2017
Applicant:	Sophos Ltd
Address:	The Pentagon, Abingdon, OX14 3YP, United Kingdom
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:	No. 19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City 33383, TAIWAN (R.O.C.)
FCC Registration / Designation Number:	788550 / TW0003

Table of Contents

Release Control Record

Issue No.	Description	Date Issued
SA170731C02	Original release.	Dec. 12, 2017

1   Certificate of Conformity

Product:	2T2R Wireless 802.11ac/abgn Dual Band Selectable PCIe Module
Brand:	Sophos
Test Model:	7922DMC
Sample Status:	Engineering sample
Applicant:	Sophos Ltd
Test Date:	Oct. 17 ~ Nov. 30, 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 : _Celine Chou_ , **Date:** Dec. 12, 2017

Celine Chou / Specialist

Approved by : _Ken Liu_ , **Date:** Dec. 12, 2017

Ken Liu / Senior 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				
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)	TX Function	Max Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm^2)	Limit (mW/cm^2)
2412-2462	1TX	21.26	3.90	20	0.065	1
	2TX	22.63	6.91	20	0.179	1
5180-5240	1TX	21.55	3.70	20	0.067	1
	2TX	24.17	6.71	20	0.244	1
5745-5825	1TX	22.32	4.40	20	0.093	1
	2TX	23.53	7.41	20	0.247	1

Note:
2412-2462MHz Directional gain = 3.9dBi + 10log(2) = 6.91dBi
5180-5240MHz Directional gain = 3.7dBi + 10log(2) = 6.71dBi
5745-5825MHz Directional gain = 4.4dBi + 10log(2) = 7.41dBi

* 2.4GHz & 5GHz technology cannot transmit at same time.

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