		B U R E A U VERITAS
	RF Exposure Report	
Report No.:	SA180706E09	
FCC ID:	JNZVR0009	
Test Model:	V-R0009	
Received Date:	July 06, 2018	
Test Date:	Aug. 01, 2018	
Issued Date:	Sep. 11, 2018	
Applicant:	LOGITECH FAR EAST LTD.	
	#2 Creation Rd. 4, Science-Based Ind. Park Hsinchu Taiwan, R.O.C.	
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branc Hsin Chu Laboratory	h
Lab Address:	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.	
Test Location :	E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300, Taiwan R.O.C.	
FCC Registration / esignation Number:	723255 / TW2022	
report is for your exclusive use App	copying or replication of this report to or for any other person or entity, or use of our name or trademark,	is permitter

This report is four exclusive use. Any copying of replication of this report to of for any other person of entity, of use of our name of indeferrance, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Unless specific mention, the uncertainty of measurement has been explicitly taken into account to declare the compliance or non-compliance to the specification. The report must not be used by the client to claim product certification, approval, or endorsement by any government agencies.



Table of Contents

Relea	se Control Record	. 3
1	Certificate of Conformity	. 4
2	RF Exposure	. 5
2.2		. 5
2.3 2.4 2.5	Classification Antenna Gain Calculation Result of Maximum Conducted Power	. 5



Release Control Record					
Issue No.	Description				Date Issued
SA180706E09	Original release.				Sep. 11, 2018



1 Certificate of Conformity

Product:	Display Hub
Brand:	Logitech
Test Model:	V-R0009
Sample Status:	ENGINEERING SAMPLE
Applicant:	LOGITECH FAR EAST LTD.
Test Date:	Aug. 01, 2018
Standards:	FCC Part 2 (Section 2.1091)
	KDB 447498 D01 General RF Exposure Guidance v06
	IEEE C95.1-1992

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 :	Wondy	Mu	, Date:	Sep. 11, 2018	
	Wendy Wu / Spo	ecialist			
Approved by :	May Chen / Ma	nager	_, Date:	Sep. 11, 2018	



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

 $Pd = (Pout^{*}G) / (4^{*}pi^{*}r^{2})$

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**.

2.4 Antenna Gain

BT-EDR						
Antenna Gain(dBi)	Frequency range (MHz)	Antenna Type	Connecter Type			
2.84	2402~2480	PCB printed antenna	NA			
BT-LE						
Antenna Gain(dBi)	tenna Gain(dBi) Frequency range (MHz)		Connecter Type			
2.28	2402~2480	PCB printed antenna	NA			



2.5 Calculation Result of Maximum Conducted Power

Operation Mode	Evaluation Frequency (MHz)	Max Power (mW)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm ²)	Limit (mW/cm ²)
BT-EDR	2480	5.998	2.84	20	0.00229	1
BT-LE	2480	1.035	2.28	20	0.00035	1

Conclusion:

The formula of calculated the MPE is:

CPD1 / LPD1 + CPD2 / LPD2 +etc. < 1

CPD = Calculation power density

LPD = Limit of power density

BT-EDR + BT-LE = 0.00229 / 1 + 0.00035 / 1 = 0.00264Therefore the maximum calculations of above situations are less than the "1" limit.

--- END ---