	BU REAU
	VERITAS
	RF Exposure Report
Report No.:	SABHKO-WTW-P21091072
FCC ID:	A94435689
Test Model:	435689
Received Date:	2021/9/29
Test Date:	2021/10/8 ~ 2021/11/19
Issued Date:	2021/12/20
Applicant:	Bose Corporation
Address:	100 The Mountain Road Framingham Massachusetts 01701-9168 United States
Issued By:	Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch Lin Kou Laboratories
Lab Address:	No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan
FCC Registration / Designation Number:	198487 / TW2021



This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, 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 or mission 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 specification.



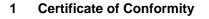
# Table of Contents

Relea	ase Control Record	. 3
1	Certificate of Conformity	. 4
2	RF Exposure	. 5
2.1	Limits For Maximum Permissible Exposure (MPE)	. 5
2.2	MPE Calculation Formula	. 5
2.3	• • • • • • • • • • • • • • • • • • • •	
2.4		
2.5	Calculation Result Of Maximum Conducted Power	6



# **Release Control Record**

Issue No.	Description	Date Issued
SABHKO-WTW-P21091072	Original release.	2021/12/20



Product:Video SoundbarBrand:BOSETest Model:435689Sample Status:Engineering sampleApplicant:Bose CorporationTest Date:2021/10/8 ~ 2021/11/19Standards:FCC Part 2 (Section 2.1091)

**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 :

Annie Chang	Dete	000
I Shrie Mang	, Date:	202

Annie Chang / Senior Specialist

Approved by :

Jerem, Lin

Jeremy Lin / Project Engineer

, Date:

2021/12/20

/12/20



## 2 RF Exposure

## 2.1 Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic FieldPower DensityStrength (A/m)(mW/cm²)		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/f²)*	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<sup>2</sup>

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

Frequency Band	Gain (dBi)	Antenna Type	Connector Type
2.4GHz	3.45	PCB	ipex
5GHz	4.93	PCB	ipex

Note: The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

# 2.5 Calculation Result Of Maximum Conducted Power

Function	Frequency Band (MHz)	Max AV Power (dBm)	Antenna Gain (dBi)	Distance (cm)	Power Density (mW/cm <sup>2</sup> )	Limit (mW/cm <sup>2</sup> )
WLAN	2412-2462	16.77	3.45	20	0.021	1
WLAN	5180-5240	15.73	4.93	20	0.023	1
WLAN	5260-5320	15.69	4.93	20	0.023	1
WLAN	5500-5700	15.81	4.93	20	0.024	1
WLAN	5745-5825	15.77	4.93	20	0.023	1
BT LE	2402-2480	5.06	3.45	20	0.001	1
BT EDR	2402-2480	5.10	3.45	20	0.001	1

Note:

- 1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
- 2. WLAN 2.4GHz & WLAN 5GHz & Bluetooth technologies cannot transmit at same time.

#### --- END ---