

FCC MPE REPORT

FCC Certification

Applicant Name:
SONY CORPORATION

Address:
1-7-1 Konan Minato-ku, Tokyo, 108-0075, Japan

Date of Issue:

May 10, 2017

Test Site/Location:

HCT CO., LTD., 74, Seoicheon-ro 578beon-gil, Majang-myeon, Icheon-si, Gyeonggi-do, 17383, Rep. of KOREA

Report No.: HCT-R-1705-E004

HCT FRN: 0005866421

FCC ID : AK8MEXGS820BT

APPLICANT : SONY CORPORATION

Model: MEX-GS820BT

EUT Type: Bluetooth Audio System

Frequency Range: 2402 MHz - 2480 MHz (Bluetooth)

The measurements shown in this report were made in accordance with the procedures specified in §2.947. I assume full responsibility for the accuracy and completeness of these measurements, and for the qualifications of all persons taking them.

HCT CO., LTD. Certifies that no party to this application has subject to a denial of Federal benefits that includes FCC benefits pursuant to section 5301 of the Anti-Drug Abuse Act of 1998, 21 U.S.C. 853(a)



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Manager of Telecommunication testing center

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Version

TEST REPORT NO.	DATE	DESCRIPTION
HCT-R-1705-E004	May 10, 2017	- First Approval Report

RF Exposure Statement

1. LIMITS

According to §1.1310 and §2.1091 RF exposure is calculated.

(B) Limits for General Population/Uncontrolled Exposures

Frequency range (MHz)	Electric field Strength (V/m)	Magnetic field Strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
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. MAXIMUM PERMISSIBLE EXPOSURE Prediction

Prediction of MPE limit at a given distance

$$S = PG/4\pi R^2$$

S = Power density

P = power input to antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

3. RESULTS

BT Only

Max Peak output Power at antenna input terminal	1.628	dBm
Max Peak output Power at antenna input terminal	1.455	mW
Prediction distance	20.000	cm
Prediction frequency	2441.000	MHz
Antenna Gain(typical)	0.929	dBi
Antenna Gain(numeric)	1.239	-
Power density at prediction frequency(S)	0.0004	mW/cm ²
MPE limit for uncontrolled exposure at prediction frequency	1.000	mW/cm ²