



# RF EXPOSURE REPORT

Applicant	Sony Corporation
Address	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan

Manufacturer or Supplier	Sony Corporation
Address	1-7-1 Konan Minato-ku Tokyo, 108-0075 Japan
Product	Glass Sound Speaker
Brand Name	SONY
Model	LSPX-S3
Additional Model & Model Difference	N/A
Date of tests	Jan. 08, 2021 ~ Jan. 29, 2021

- FCC Part 2 (Section 2.1091)
- KDB 447498 D01
- IEEE C95.1

**CONCLUSION: The submitted sample was found to COMPLY with the test requirement**

Tested by Tom Chen  
Project Engineer / EMC Department

Approved by Glyn He  
Assistant Manager / EMC Department

Date: Mar. 18, 2021

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Test Report No.: FM2101WDG0100

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## RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FM2101WDG0100	Original release	Mar. 18, 2021

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## 1. CERTIFICATION

<b>FCC ID:</b>	AK8LSPXS3
<b>PRODUCT:</b>	Glass Sound Speaker
<b>BRAND NAME:</b>	SONY
<b>MODEL NO.:</b>	LSPX-S3
<b>ADDITIONAL NO.:</b>	N/A
<b>APPLICANT:</b>	Sony Corporation
<b>STANDARDS:</b>	FCC Part 2 (Section 2.1091)
	KDB 447498 D01
	IEEE C95.1



## 2. RF EXPOSURE LIMIT

### LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

FREQUENCY RANGE (MHz)	ELECTRIC FIELD STRENGTH (V/m)	MAGNETIC FIELD STRENGTH (A/m)	POWER DENSITY (mW/cm <sup>2</sup> )	AVERAGE TIME (minutes)
<b>LIMITS FOR GENERAL POPULATION / UNCONTROLLED EXPOSURE</b>				
300-1500	...	...	F/1500	30
1500-100,000	...	...	1.0	30

F = Frequency in MHz

## 3. 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

## 4. 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**.



## 5. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
Chain 0	3.3	Integral Antenna

## 6. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The tuned conducted Average Power (declared by client)

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
GFSK	2402-2480	3	+1	2	4
8DPSK	2402-2480	5	+1	4	6
BLE 1Mbps	2402-2480	3	+1	2	4
BLE 2Mbps	2402-2480	5	+1	4	6

The measured conducted Average Power

Mode	Frequency (MHz)	Averaged Power (dBm)
GFSK	2441	3.55
8DPSK	2441	4.81
BLE 1Mbps	2440	3.23
BLE 2Mbps	2440	4.55

FREQUENCY BAND (MHz)	MAX AVERAGE POWER (dBm)	ANTENNA GAIN (dBi)	DISTANCE (cm)	POWER DENSITY (mW/cm <sup>2</sup> )	LIMIT (mW/cm <sup>2</sup> )
2402-2480	6	3.3	20	0.00169	1.0

--- END ---