





FCC ID: AK8PSLX310BT Report No.: T181002N03-MF

Page: 1/7 Rev.: 02

IEEE C95.1 KDB 447498 D03

47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091

RF EXPOSURE REPORT

For

Stereo Turntable System

Model: PS-LX310BT

Trade Name: SONY

Issued to

Sony Corporation

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

Issued By

Compliance Certification Services Inc.

Tainan Laboratory
No.8, Jiucengling, Xinhua Dist., Tainan City
712, Taiwan (R.O.C.)

TEL: 886-6-580-2201

FAX: 886-6-580-2202

Issued Date: December 21, 2018

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only. 除非另有說明,此報告結果僅對測試之樣品負責,同時此樣品僅保留90天。本報告未經本公司書面許可,不可部分複製。

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms_and_conditions.htm and for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms_e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.



Page: 2/7 Rev.: 02

Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By	
00	November 06, 2018	Initial Issue	ALL	Gina Lin	
01	December 13, 2018	See the following note rev.01	Page5	Gina Lin	
02	December 21, 2018	See the following note rev.02	Page5	Gina Lin	

Note:

Rev.01 Issue Date: December 13, 2018

Revise typo.

Rev.02 Issue Date: December 21, 2018

Revise typo.



Page: 3/7 Rev.: 02

TABLE OF CONTENTS

1.	TEST RESULT CERTIFICATION	4
2.	LIMIT	5
3.	EUT SPECIFICATION	5
4.	TEST RESULTS	6
5	MAXIMUM PERMISSIRI E EXPOSURE	7



Page: 4/7 Rev.: 02

1. TEST RESULT CERTIFICATION

We hereby certify that:

The equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirement of the applicable standards. The test record, data evaluation and Equipment under Test (EUT) configurations represented herein are true and accurate accounts of the measurement of the sample's RF characteristics under the conditions specified in this report.

APPLICABLE STANDARDS					
STANDARD	TEST RESULT				
IEEE C95.1 2005 KDB 447498 D03					
47 C.F.R. Part 1, Subpart I, Section 1.1310 47 C.F.R. Part 2, Subpart J, Section 2.1091	No non-compliance noted				

Approved by:

Jeter Wu Assistant Manager Reviewed by:

Eric HuangSection Manager



Page: 5/7 Rev.: 02

2. LIMIT

According to §15.247(i), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See § 1.1307(b)(1) of this chapter.

3. EUT SPECIFICATION

EUT	Stereo Turntable System	1					
Model	PS-LX310BT						
Trade Name	SONY						
Model Discrepancy	N/A						
Frequency band (Operating)	802.11n HT40: 2422N	 ■ 802.11b/g/n HT20: 2412MHz ~ 2462MHz 802.11n HT40: 2422MHz ~ 2452MHz ☑ Others 2402MHz ~ 2480MHz (BT3.0 BT 4.0) 					
Device category	☐ Portable (<20cm separ☐ Mobile (>20cm separ☐ Others	,					
Exposure classification	<u> </u>						
Antenna Specification	PCB Antenna / Gain: 5.51 dBi (Numeric gain: 3.56) worst					worst	
Maximum Average output power	GFSK: 8-DPSK DSSS	-4.06 dBm -0.88 dBm 1.28 dBm		(0.393 (0.817 (1.343	mW)		
Maximum Tune up Power	GFSK: -3.56 dBm (0.441 mW) 8-DPSK: -0.38 dBm (0.917 mW) DSSS 1.78 dBm (1.507 mW)						
Evaluation applied	MPE Evaluation* SAR Evaluation N/A						

Notes: For 2.4GHz could not be use as transmit/receive at the same time.



Page: 6/7 Rev.: 02

4. TEST RESULTS

No non-compliance noted.

Calculation

Given

$$E = \frac{\sqrt{30 \times P \times G}}{d} \quad \& \quad S = \frac{E^2}{377}$$

Where E = Field strength in Volts / meter

P = Power in Watts

G = Numeric antenna gain

d = *Distance in meters*

S = Power density in milliwatts / square centimeter

Combining equations and re-arranging the terms to express the distance as a function of the remaining variables yields:

$$S = \frac{30 \times P \times G}{377d^2}$$

Changing to units of mW and cm, using:

$$P(mW) = P(W) / 1000$$
 and

$$d(cm) = d(m) / 100$$

Yields

$$S = \frac{30 \times (P/1000) \times G}{377 \times (d/100)^2} = 0.0796 \times \frac{P \times G}{d^2}$$
 Equation 1

Where d = Distance in cm

P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$



Page: 7/7 Rev.: 02

5. MAXIMUM PERMISSIBLE EXPOSURE

Substituting the MPE safe distance using d = 20 cm into Equation 1:

 $S = 0.000199 \times P \times G$

Where P = Power in mW

G = Numeric antenna gain

 $S = Power density in mW / cm^2$

GFSK:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	Result
Low	2402	0.441	3.56	20	0.0003	1	Pass

8-DPSK:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	Result	
Low	2402	0.917	3.56	20	0.0006	1	Pass	

DSSS:

Ch.	Frq.(MHz)	P (mW)	Gain (num.)	D (cm)	Power density in mW / cm ²	Limit (mW/cm2)	Result
Low	2402	1.507	3.56	20	0.0011	1	Pass