



MPE Report

Report No.: STS2512334H01

Issued for

SPON Communications Co., Ltd.

NO.70, Nantang Road, Lugu Street, High-tech Development
Zone, Changsha City, China

Product Name: IP Network Conference Host

Brand Name: N/A

Model Name: LCN-8000

Series Model(s): Ref. the Section 1.1

FCC ID: 2BTSC-LCN-8000

Test Standard: FCC 47CFR §2.1091

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.

**TEST REPORT**

Applicant's Name SPON Communications Co., Ltd.
Address NO.70, Nantang Road, Lugu Street, High-tech Development Zone,
Changsha City, China
Manufacturer's Name SPON Communications Co., Ltd.
Address NO.70, Nantang Road, Lugu Street, High-tech Development Zone,
Changsha City, China

Product Description

Product Name IP Network Conference Host
Brand Name N/A
Model Name LCN-8000
Series Model(s) Ref. the Section 1.1

Test Standards FCC 47CFR §2.1091
447498 D01 Interim General RF Exposure Guidance v06

The test results presented in this report relate only to the object tested. This report shall not be reproduced, except in full, without the written approval of the ShenZhen STS Test Services Co., Ltd.

Date of Test

Date of receipt of test item 17 Nov. 2025
Date (s) of performance of tests 17 Nov. 2025 to 15 Dec. 2025
Date of Issue 15 Dec. 2025
Test Result **Pass**

Testing Engineer :

Stan Deng

(Star Deng)

Technical Manager :

Brave Wu

(Brave Wu)

Authorized Signatory :

Bovey Yang

(Bovey Yang)





TABLE OF CONTENTS

1. GENERAL INFORMATION	5
1.1 GENERAL DESCRIPTION OF THE EUT	5
1.2 TEST FACTORY	7
2. FCC 47CFR §2.1091 REQUIREMENT	8
2.1 TEST STANDARDS	8
2.2 LIMIT	8
2.3 TEST RESULT	9

**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	15 Dec. 2025	STS2512334H01	ALL	Initial Issue



1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	IP Network Conference Host	
Brand Name	N/A	
Model Name	LCN-8000	
Series Model(s)	LCN-GB8000, LCN-ES8000, LCN-IT8000, LCN-RU8000, LCN-DE8000, LCN-PL8000, LCN-IN8000, LCN-PH8000, LCN-TH8000, LCN-VN8000, LCN-ID8000, LCN-CL8000, LCN-PE8000, LCN-NZ8000, LCN-SG8000, LCN-PK8000, LCN-UY8000, LCN-IL8000, LCN-IQ8000, LCN-KW8000, LCN-SA8000, LCN-QA8000, LCN-BH8000, LCN-AE8000, LCN-OM8000, LCN-IR8000, LCN-TR8000, LCN-US8000, LCN-EG8000, LCN-MY8000, LCN-8000-PRO, LCN-8100-PRO, LCN-8200-PRO, LCN-8300-PRO, LCN-8400-PRO, LCN-8500-PRO, LCN-8600-PRO, LCN-8700-PRO, LCN-8800-PRO, LCN-8900-PRO, LCS-5000-PRO, LCS-5100-PRO, LCS-5200-PRO, LCS-5300-PRO, LCS-5400-PRO, LCS-5500-PRO, LCS-5600-PRO, LCS-5700-PRO, LCS-5800-PRO, LCS-5900-PRO, LCM-6000-PRO, LCM-6100-PRO, LCM-6200-PRO, LCM-6300-PRO, LCM-6400-PRO, LCM-6500-PRO, LCM-6600-PRO, LCM-6700-PRO, LCM-6800-PRO, LCM-6900-PRO, LCN-8000, LCN-8100, LCN-8200, LCN-8300, LCN-8400, LCN-8500, LCN-8600, LCN-8700, LCN-8800, LCN-8900, LCS-5000, LCS-5100, LCS-5200, LCS-5300, LCS-5400, LCS-5500, LCS-5600, LCS-5700, LCS-5800, LCS-5900, LCM-6000, LCM-6100, LCM-6200, LCM-6300, LCM-6400, LCM-6500, LCM-6600, LCM-6700, LCM-6800, LCM-6900	
Model Difference	All the model are the same circuit and RF module, except model names.	
Product Description	The EUT is IP Network Conference Host	
	Operation Frequency:	2402 – 2480 MHz 802.11b/g/n 20: 2412~2462 MHz 802.11n40:2422~2452MHz
	Modulation Type:	GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps), 8DPSK(3Mbps) GFSK 802.11b(DSSS):CCK,DQPSK,DBPSK 802.11g(OFDM):BPSK,QPSK,16-QAM,64-QAM 802.11n(OFDM):BPSK,QPSK,16-QAM,64-QAM
	Bit Rate of Transmitter:	802.11b:11/5.5/2/1 Mbps 802.11g:54/48/36/24/18/12/9/6Mbps 802.11n(20MHz): 65/58.5/52/39/26/19.5/13/6.5Mbps 802.11n(40MHz): 135/121.5/108/81/54/40.5/37/13.5Mbps
	Number of Channel:	BT: 79 BLE: 40 802.11b/g/n20: 11CH 802.11n40: 7CH



	Antenna Type:	External	
	Antenna Gain (dBi):	1.45	
Power Rating	AC 120V/60Hz		
Adapter	N/A		
Battery	N/A		
Hardware Version	N/A		
Software Version	N/A		



1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : 101, Building B, Zhuoke Science Park, No.190 Chongqing Road, ZhanChengShequ, Fuhai Sub-District, Bao'an District, Shenzhen, Guang Dong, China

FCC test Firm Registration Number: 625569

IC test Firm Registration Number: 12108A

A2LA Certificate No.: 4338.01



2. FCC 47CFR §2.1091 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in FCC 1.1310 is followed. The gain of the antennas used in the product is extracted from the Antenna data sheets provided and also the maximum total power input to the antenna is measured. Through the Friis transmission formula and the maximum gain of the antenna, we can calculate the distance, away from the product, where the limit of MPE is reached.

Although the Friis Transmission formula is far field assumption, the calculated result of that is an over-prediction for near field power density. It is taken as worst case to specify the safety range.

2.2 LIMIT

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environmental impact of the human exposure to radio-frequency (RF) radiation as specified in 1.1307 (b)

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)
Limits for Occupational / controlled Exposures			
300 - 1500	--	--	F/300
3.0-30	1842/f	4.89/f	*(900/f ²)
1500 – 100000	--	--	5.0
Limits for General population / Uncontrolled Exposure			
300 - 1500	--	--	F/1500
1.34-30	824/f	2.19/f	*(180f ²)
1500 – 100000	--	--	1.0

F= Frequency in MHz

Friss Formula

Friss Transmission Formula: $P_d = (P_{out} * G) / (4 * \pi * r^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = Distance between observation point and the center of radiator in cm

If we know the maximum gain of the antenna and the total output power to the antenna, through calculation, we will know MPE value at distance 20cm.



2.3 TEST RESULT

Tune up

Mode	Detector	Tune up Power
BT	Peak	0±1dBm
BLE	Peak	0±1dBm
2.4G WIFI	Peak	12±1dBm

Protocol	Fre. (GHz)	Separation distance (cm)	Max Tune up power (dBm)	ANT Gain (dBi)	Max EIRP (dBm)	Max EIRP (mW)	Power Density (mW/cm ²)	Limit (mW/cm ²)	Ratio	Result
BT	2.402	20	1	1.45	2.45	1.758	0.0003	1	0.0003	Pass
BLE	2.402	20	1	1.45	2.45	1.758	0.0003	1	0.0003	Pass
2.4G WIFI	2.412	20	13	1.45	14.45	27.861	0.0055	1	0.0055	Pass

Note: 1. The Maximum power is less than the limit, complies with the exemption requirements.

2. The Bluetooth and WLAN can't simultaneous transmission at the same time.

3. ERP = EIRP - 2.15

※※※※※END OF THE REPORT※※※※※