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RADIO TEST REPORT

Report No: STS2111026H02

Issued for

Shenzhen EDUP Electronics Technology Co., Ltd.

6 Floor, #6 Building, No.48, Kangzheng Road Liantang
Industrial Area, Buji Town, Shenzhen, china

Product Name:	Bluetooth adapter
Brand Name:	EDUP, EDUP LOVE , EPSKY, ISEKIE, Deeyaple, EDUP HOME, WISE TIGER, CardKing, SXUNLIK KWYDYP
Model Name:	EP-B3536
Series Model:	EL-B3536, ES-B3536, EH-B3536, WT-B3536, CK-B3536, BA3536, EP-B3536S, EP-B3536GS
FCC ID:	2AHRDEP-B3536
Test Standard:	FCC 47CFR §2.1093

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Shenzhen STS Test Services Co., Ltd.

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Test Report Certification

Applicant's Name : Shenzhen EDUP Electronics Technology Co., Ltd.
Address : 6 Floor, #6 Building, No.48, Kangzheng Road Liantang Industrial Area, Buji Town, Shenzhen, china
Manufacturer's Name : Shenzhen EDUP Electronics Technology Co., Ltd.
Address : 6 Floor, #6 Building, No.48, Kangzheng Road Liantang Industrial Area, Buji Town, Shenzhen, china

Product Description

Product Name : Bluetooth adapter
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Standards : FCC 47CFR §2.1093

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Date of Test

Date of receipt of test item : 04 Nov. 2021

Date (s) of performance of tests : 04 Nov. 2021 ~ 18 Nov. 2021

Date of Issue : 18 Nov. 2021

Test Result : **Pass**

Testing Engineer :

(Chris Chen)

Technical Manager :

(Sean she)

Authorized Signatory :

(Vita Li)





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**Revision History**

Rev.	Issue Date	Report No.	Effect Page	Contents
00	18 Nov. 2021	STS2111026H02	ALL	Initial Issue





1. GENERAL INFORMATION

1.1 GENERAL DESCRIPTION OF THE EUT

Product Name	Bluetooth adapter	
Brand Name	EDUP, EDUP LOVE , EPSKY, ISEKIE, Deeyaple, EDUP HOME, WISE TIGER, CardKing, SXUNLIK KWYDYP	
Model Name	EP-B3536	
Series Model	EL-B3536, ES-B3536, EH-B3536, WT-B3536, CK-B3536, BA3536, EP-B3536S, EP-B3536GS	
Model Difference	The shell is different, everything else is the same	
Product Description	The EUT is Bluetooth adapter	
	Operation Frequency:	2402~2480 MHz
	Modulation Type:	GFSK(1Mbps), $\pi/4$ -DQPSK(2Mbps), 8DPSK(3Mbps)
	Antenna gain:	2dBi
	Antenna Designation:	External Antenna
Rating	Input: 5V	
Hardware Version	V1.2	
Software Version	V1.0	

1.2 TEST FACTORY

SHENZHEN STS TEST SERVICES CO., LTD

Add. : A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong 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 §2.1093 REQUIREMENT

2.1 TEST STANDARDS

The limit for Maximum Permissible Exposure (MPE) specified in KDB 447498 D01 General RF Exposure Guidance v06 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

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm
150	39	77	116	155	194	SAR Test Exclusion Threshold (mW)
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	
1900	11	22	33	44	54	
2450	10	19	29	38	48	
3600	8	16	24	32	40	
5200	7	13	20	26	33	
5400	6	13	19	26	32	
5800	6	12	19	25	31	
MHz	30	35	40	45	50	mm
150	232	271	310	349	387	SAR Test Exclusion Threshold (mW)
300	164	192	219	246	274	
450	134	157	179	201	224	
835	98	115	131	148	164	
900	95	111	126	142	158	
1500	73	86	98	110	122	
1900	65	76	87	98	109	
2450	57	67	77	86	96	
3600	47	55	63	71	79	
5200	39	46	53	59	66	
5400	39	45	52	58	65	
5800	37	44	50	56	62	



The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where $f(\text{GHz})$ is the RF channel transmit frequency in GHz.

Power and distance are rounded to the nearest mW and mm before calculation

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is ≤ 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.





2.3 TEST RESULT

Maximum measured transmitter power.

BT The Worst Case

Mode	frequency	Maximum AV Output Power	Tune up tolerance	Max Tune up
	GHz	dBm	dBm	dBm
8DPSK	2.441	0.89	1±1	2

Remark: The worst case gain of the antenna is 2dBi.

2dBi logarithmic terms convert to numeric result is nearly 1.585.

Maximum Tune up Power₍₂₄₄₁₎ = 1.585mW

$$[(8\text{DPSK power of channel, including tune-up tolerance, mW})/(\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] = 1.585/5 \cdot \sqrt{2.441} = 0.495 \leq 3.0$$

Threshold at which no SAR required is $0.495 \leq 3.0$ for 1-g SAR, Separation distance $\leq 5\text{mm}$.

※※※※※END OF THE REPORT※※※※※