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RF Exposure Evaluation Report

Report No.: CQASZ20220100090E-02
Applicant: Soul Electronics Limited
Address of Applicant: Suite 2108, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong, China
Equipment Under Test (EUT):
EUT Name: S-PLAY - True Wireless Earbuds For Gaming and Entertainment
Test Model No.: S-PLAY/SS65
Model No.: S-PLAY/SS65
Brand Name: SOUL
FCC ID: 2AAWE-SS65
Standards: 47 CFR Part 1.1307
47 CFR Part 2.1093
KDB447498D01 General RF Exposure Guidance v06
Date of Receipt: 2022-1-17
Date of Test: 2022-1-17 to 2022-2-23
Date of Issue: 2022-02-25
Test Result: **PASS***

*In the configuration tested, the EUT complied with the standards specified above

Tested By: Lewis Zhou
(Lewis Zhou)

Reviewed By: Rock Huang
(Rock Huang)

Approved By: Jack Ai
(Jack Ai)



1 Version

Revision History Of Report

Report No.	Version	Description	Issue Date
CQASZ20220100090E-02	Rev.01	Initial report	2022-02-25

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3 General Information

3.1 Client Information

Applicant:	Soul Electronics Limited
Address of Applicant:	Suite 2108, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong, China
Manufacturer:	Soul Electronics Limited
Address of Manufacturer:	Suite 2108, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong, China
Factory:	Soul Electronics Limited
Address of Factory:	Suite 2108, Exchange Tower, 33 Wang Chiu Road, Kowloon Bay, Hong Kong, China

3.2 General Description of EUT

Product Name:	S-PLAY - True Wireless Earbuds For Gaming and Entertainment
Model No.:	S-PLAY/SS65
Test Model No	S-PLAY/SS65
Trade Mark:	SOUL
EUT Supports Radios application:	Bluetooth mode 2402-2480MHz
Software Version:	V2.5
Hardware Version:	V1.2
Sample Type:	<input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location
EUT Power Supply:	Charging Box: Li-ion battery: DC 3.7V 600mAh, Charge by DC 5V for adapter Earphone: Li-ion battery: DC 3.7V 50mAh, Charge by DC 3.7V for Charging box

3.3 General Description of BT

Operation Frequency:	2402MHz~2480MHz
Bluetooth Version:	V5.2
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Transfer Rate:	1Mbps/2Mbps/3Mbps
Test Software of EUT:	EspRFTTestTool_v2.8
Antenna Type:	FPC antenna
Antenna Gain:	0.5dBi

4 SAR Evaluation

4.1 RF Exposure Compliance Requirement

4.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

4.1.2 Limits

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:

$$\left[\frac{\text{max. power of channel, including tune-up tolerance, mW}}{\text{min. test separation distance, mm}} \right] \cdot \sqrt{f(\text{GHz})} \leq 3.0$$
 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 calculation¹⁷

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

4.1.3 EUT RF Exposure

Measurement Data

The maximum output power is in the test results of 2DH5.

Channel	Maximum Peak Conducted Output Power (dBm)	Tune up tolerance (dBm)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
Lowest (2402MHz)	7.65	7.5±0.5	8.0	6.310	1.956	3.0
Middle (2441MHz)	8.19	8.0±0.5	8.5	7.079	2.212	
Highest (2480MHz)	9.06	9.0±0.5	9.5	8.913	2.807	
Conclusion: the calculated value ≤3.0, SAR is exempted.						

Remark: The Max Conducted Peak Output Power data refer to report Report No.: CQASZ20220100090E-01.

*** END OF REPORT ***