RF	Exposure Report
	FCC ID: 2BL4H-IE550
Report No.	: SSP24100299-3E
Applicant	: Guangdong DK Music Electronic Technology Co., Ltd.
Product Name	: Multi-Effects Processor
Model Name	: iE-550
Test Standard	: FCC CFR 47 PART 2.1093
Date of Issue	: 2024-11-13
	CCUT
	enzhen CCUT Quality Technology Co., Ltd.
	chnology Industrial Park, Yutang Street, Guangming District, Shenzhen, (Tel.:+86-755-23406590 website: www.ccuttest.com)
•	bove client company and the product model only. It may not be duplicated ermitted by Shenzhen CCUT Quality Technology Co., Ltd.

Test Report Basic Information							
Applicant	Guangdong DK Music Electronic Technology Co., Ltd.						
Address of Applicant	Unit 301, BLDG 5, No.16, Jinxing Rd, Hi-Tech Zone, Zhuhai, Guangdong, China						
Manufacturer	Guangdong DK Music Electronic Technology Co., Ltd.						
Address of Manufacturer:	Unit 301, BLDG 5, No.16, Jinxing Rd, Hi-Tech Zone, Zhuhai, Guangdong, China						
Product Name	Multi-Effects Processor						
Brand Name:	-						
Main Model	Model: iE-550						
Series Models	-						
	FCC CFR 47 PART 2.1093						
Test Standard	KDB 447498 D01 v06						
Date of Test	2024-10-31 to 2024-11-06						
Test Result	PASSED						
Tested By	Walker Wei (Walker Wu) Lieber Ougang (Lieber Ouyang)						
Reviewed By	(Walker Wu) Lieber Ouyang Lahm Peng (Lahm Peng) (Walker Wu) (Lahm Peng) (Walker Wu) (Lahm Peng) (Lahm Peng)						
Authorized Signatory	Lahm Peng (Lahm Peng)						
-	to the above client company and the product model only. It may not be						
	ted by Shenzhen CCUT Quality Technology Co., Ltd All test data presented in						
this test report is only applicable	e to presented test sample.						

Test Report Basic Information

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Revision History

Revision	Issue Date	Description	Revised By
V1.0	2024-11-13	Initial Release	Lahm Peng

1. General Information

1.1 Product Information

Product Name:	Multi-Effects Processor			
Trade Name:	-			
Main Model:	iE-550			
Series Models:	-			
Rated Voltage:	DC 9V≖0.5A			
Test Sample No:	SSP24100299-1			
Hardware Version:	V01			
Software Version:	1.5.4			
Note 1: The test data is gathered from a production sample, provided by the manufacturer.				

Wireless Specification					
Wireless Standard:	Bluetooth BR/EDR+BLE				
Operating Frequency:	2402MHz ~ 2480MHz				
RF Output Power:	BR/EDR: -1.34dBm, BLE: -2.08dBm				
Antenna Gain:	2.81dBi				
Type of Antenna:	PCB Antenna				
Type of Device:	Portable Device Device Mobile Device				

1.2 Test Facilities

	Shenzhen CCUT Quality Technology Co., Ltd.					
Laboratory Name:	1F, Building 35, Changxing Technology Industrial Park, Yutang Street,					
	Guangming District, Shenzhen, Guangdong, China					
CNAS Laboratory No.:	L18863					
A2LA Certificate No.:	6893.01					
FCC Registration No:	583813					
ISED Registration No.:	CN0164					
All measurement facilities used to collect the measurement data are located at 1F, Building 35, Changxing						
Technology Industrial Park, Yutang Street, Guangming District, Shenzhen, Guangdong, China.						

2. RF Exposure

2.1 Standard and Limit

3.0 for 1g SAR.

2.2 Test Procedure

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 Test Exclusion Threshold condition(s), listed below, is (are) satisfied. These test exclusion conditions are based on source-based time-averaged maximum conducted output power of the RF channel requiring evaluation, adjusted for tune-up tolerance, and the minimum test separation distance required for the exposure conditions.

The minimum test separation distance defined in 4.1 f) is determined by the smallest distance from the antenna and radiating structures or outer surface of the device, according to the host form factor, exposure conditions and platform requirements, to any part of the body or extremity of a user or bystander.

To qualify for SAR test exclusion, the test separation distances applied must be fully explained and justified, typically in the SAR measurement or SAR analysis report, by the operating configurations and exposure conditions of the transmitter and applicable host platform requirements, according to the required published RF exposure KDB procedures.

When no other RF exposure testing or reporting are required, a statement of justification and compliance must be included in the equipment approval, in lieu of the SAR report, to qualify for SAR test exclusion.

When required, the device specific conditions described in the other published RF exposure KDB procedures must be satisfied before applying these SAR test exclusion provisions.

a) For 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

- f(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 values 3.0 and 7.5 are referred to as numeric thresholds in step b) below

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 according to 4.1 f) is applied to determine SAR test exclusion.

b) For 100 MHz to 6 GHz and test separation distances > 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following (also illustrated in Appendix B):

1) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance - 50 mm)·(f(MHz)/150)]} mW, for 100 MHz to 1500 MHz

2) {[Power allowed at numeric threshold for 50 mm in step a)] + [(test separation distance - 50 mm) \cdot 10]} mW, for > 1500 MHz and ≤ 6 GHz

c) For frequencies below 100 MHz, the following may be considered for SAR test exclusion (also illustrated in Appendix C):

1) For test separation distances > 50 mm and < 200 mm, the power threshold at the corresponding test separation distance at 100 MHz in step b) is multiplied by $[1 + \log(100/f(MHz))]$

2) For test separation distances $\leqslant 50$ mm, the power threshold determined by the equation in c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$

3) SAR measurement procedures are not established below 100 MHz.

When SAR test exclusion cannot be applied, a KDB inquiry is required to determine SAR evaluation requirements for any SAR test results below 100 MHz to be acceptable.

2.3 Test Data and Results

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.

For BR+EDR

Max Conducted Power(dBm)	Tune-up Power(dBm)	Max Tune-up Power(dBm)	Max Power(mW)	Frequency(MHz)	Min. distance(mm)	Calc. thresholds	limit
-1.34	-1(±1)	0	1	2402	5	0.30997	3.0

For BLE

Max Conducted Power(dBm)	Tune-up Power(dBm)	Max Tune-up Power(dBm)	Max Power(mW)	Frequency(MHz)	Min. distance(mm)	Calc. thresholds	limit
-2.08	-2(±1)	-1	0.79	2402	5	0.24487	3.0

So a SAR test is not required