RF Exposure Evaluation

FCC ID: 2AC5EIW-6215BT

1. Client Information

Applicant	:	HIGH HIT ENTERPRISE CO.,LTD.
Address	:	6F-3, NO.29-1, LANE 169, KANG-NING ST., SHI-CHIH CITY, TAIPEI HSIEN, TAIWAN
Manufacturer	:	HIGH HIT ELECTRONICS(SHENZHEN)CO.,LTD
Address	:	BUILDING 25, AREA C, BUYONG INDUSTRIAL RD., SHAJING TOWN, BAOAN ZONE, SHENZHEN, CHINA

2. General Description of EUT

EUT Name	:	WALL BLUETOOTH SPEAKER	
Models No.	:	IW-6215BT, IW-8215BT, IC-6215BT, IC8215BT, RBT-402, RBT-802, ROCK-RS4-BTL, ROCK-541-BTL, ROCK-621-BTL, ROCK-821-BTL, HP-5240AUBTO, HP-6250AUBTO, HP-4230AUbt	
Model Difference	:	All models are identical in the same PCB layout interior structure and electrical circuits, The only difference is model name for commercial purpose and output power.	
Product Description	:	Operation Frequency:	Bluetooth: 2402~2480 MHz
		RF Output Power:	Bluetooth: 3.358dBm(GFSK)
		Antenna Gain:	0dBi PCB Antenna
Power Supply	:	DC Voltage supplied by AC/DC Adapter	
Power Rating	:	AC/DC Adapter Model(ZF120-1502400) Input: AC 100V-24V 50Hz/60Hz 1.5A Output: DC 15V/2.4A	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note: More test information about the EUT please refer the RF Test Report.

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SAR Test Exclusion Calculations

1. **FCC: According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.**
   (1) Clause 4.3: General SAR test reduction and exclusion guidance
   Sub clause 4.31: Standalone SAR test exclusion considerations
   1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6GHz at test separation distance≤5 mm are determined by:
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤3.0 for 1-g SAR
   [(max. power of channel, including tune-up tolerance, mW)/(min. test separation, mm)]*[$\sqrt{f_{(GHz)}}$] ≤7.5.0 for 10-g SAR

2. Calculation:

Test separation: 5mm						
Bluetooth Mode (GFSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.546	3±1	4	2.512	0.779	**3.0**
2.441	3.158	3±1	4	2.512	0.785	**3.0**
2.480	3.358	3±1	4	2.512	0.791	**3.0**
Bluetooth Mode (π/4-DQPSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.138	2±1	3	1.995	0.618	**3.0**
2.441	2.812	2±1	3	1.995	0.623	**3.0**
2.480	2.970	2±1	3	1.995	0.628	**3.0**
Bluetooth Mode (8-DPSK)						
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (dbm)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	2.500	3±1	4	2.512	0.779	**3.0**
2.441	3.123	3±1	4	2.512	0.785	**3.0**
2.480	3.305	3±1	4	2.512	0.791	**3.0**

So standalone SAR measurements are not required.

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