

RF Exposure Evaluation

FCC ID: 2AC5EHP-6250AUBT

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 CITY

2. General Description of EUT

EUT Name	:	PA ACTIVE STEREO SPEAKER BUILT IN BLUETOOTH	
Models No.	:	HP-6250AUBT, HP-6250Abt, HP-6250AU, HP-6250A, HP-5240AU, HP-5240A, HP-5240AUbt, HP-5240Abt, HY-513A40, HY-513A40U, HY-513A40bt, HY-513A40Ubt	
Brand Name	:	Hihits	
Model Difference	:	All these models are identical in the same PCB layout and electrical circuit, the only difference is model name for commercial.	
Product Description	:	Operation Frequency:	Bluetooth 4.1+EDR : 2402~2480 MHz
	:	Number of Channel:	Bluetooth: 79 Channels
	:	Max Peak Output Power:	Bluetooth: 4.029 dBm(8-DPSK)
	:	Antenna Gain:	0 dBi PCB Antenna
	:	Modulation Type:	GFSK 1Mbps(1 Mbps) π /4-DQPSK(2 Mbps) 8-DPSK(3 Mbps)
Power Supply	:	DC Voltage supplied from Switching Adapter.	
Power Rating	:	Input: AC 100-240V~50/60Hz 1.6A Output: 20V, 3.0A	
Connecting I/O Port(S)	:	Please refer to the User's Manual	

Note:

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

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:

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}]}{\leq 3.0 \text{ for 1-g SAR}}$$

$$\frac{[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation, mm})] * [\sqrt{f_{(\text{GHz})}}]}{\leq 7.5.0 \text{ for 10-g SAR}}$$

2.

Calculation:

Test separation: 5mm					
Bluetooth Mode (GFSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.576	±0.5	2.556	0.792	3.0
2.441	3.368	±0.5	2.437	0.761	3.0
2.480	3.143	±0.5	2.314	0.729	3.0
Bluetooth Mode ($\pi/4$ -DQPSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	3.824	±0.5	2.706	0.839	3.0
2.441	3.660	±0.5	2.606	0.814	3.0
2.480	3.461	±0.5	2.489	0.784	3.0
Bluetooth Mode (8-DPSK)					
Frequency (GHz)	Conducted Power (dBm)	Turn-up Power Tolerance (dB)	Max power of tune up tolerance (mw)	Calculation Value	Threshold Value
2.402	4.029	±0.5	2.837	0.879	3.0
2.441	3.766	±0.5	2.671	0.834	3.0
2.480	3.571	±0.5	2.553	0.804	3.0

So standalone SAR measurements are not required.

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