FCC RF Exposure

EUT Description: Portable bluetooth speaker Model No.: BY-AU-BS-181, YH-5001, YH-5002, YH-5003 FCC ID: 2AHN6-AUBS181

1. Limits

According to KDB 447498 D01 General RF Exposure Guidance v06 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:

[(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:

Result=P/D*√F F= the RF channel transmit frequency in GHz P=Maximum turn-up power in mw D=Min. test separation distance in mm

2. Test Result of RF Exposure Evaluation

2.4G

	Output	Tune Up	Max	Min test	Result	Limit	SAR
	power	Power	Tune Up	separati		(mW/cm ²	Test
	(dBm)	(dBm)	power	on)	Exclusio
			dBm/m	distance			n
			W	mm			
BT	3.19	3±1	4/ 2.51	5	0.778	3.0	Pass
Note:							
PK Output power= conducted power.							
Conducted power see the test report HK1907041539-E, antenna gain=0dBi							

Per KDB 447498 D01, when the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. The test exclusion threshold is 0.778 which is<= 3, SAR testing is not required.

Note: Exclusion Thresholds Results=[(*max. power of channel, including tune-up tolerance,* mW)/(*min. test separation distance, mm*)] $\cdot [\sqrt{f}(GHz)]$

 $f_{(\text{GHz})}\,\text{is the RF}$ channel transmit frequency in GHz Distance=5mm