RF Exposure Evaluation Statement

Product Name: BLUETOOTH SPEAKER

Model No.: Q29, AJ-ABT-29, AWKF4

FCC ID: N7KQ29

1.1 RF Exposure Compliance Requirement

1.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

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.

1.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] ·

 $[\sqrt{f}(GHz)] \le 3.0$ 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 calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 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

1.1.3 EUT RF Exposure

Operational Mode: GFSK is worst case						
	Maximum		Maximum tune-up Power		_	
Channel	Peak Conducted Output Power	Tune up tolerance (dB)	(dBm)	(mW)	Calculated value	Exclusion threshold
	(dBm)					
2402MHz	0.446	±1	1.446	1.40	0.43	
2441MHz	-2.304	±1	-1.304	0.74	0.23	3.0
2480MHz	-3.373	±1	-2.373	0.58	0.18	
Conclusion: the calculated value \leq 3.0, SAR is exempted.						