

RF Exposure Evaluation Statement

Product Name: True Wireless Earbuds

Model No.: Haylou W1

FCC ID: 2AMQ6-W1

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 ≤ 50 mm are determined by:

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

$f(\text{GHz})$ 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 ≤ 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: EDR (8-DPSK worst case)						
Channel	Maximum Peak Conducted Output Power (dBm)	Tune tolerance up (dB)	Maximum tune-up Power		Calculated value	Exclusion threshold
			(dBm)	(mW)		
2402MHz	5.36	±1	6.36	4.33	1.34	3.0
2441MHz	5.73	±1	6.73	4.71	1.47	
2480MHz	5.06	±1	6.06	4.04	1.27	
Operational Mode: BLE (worst case)						3.0
2402MHz	1.09	±1	2.09	1.62	0.50	
2442MHz	1.65	±1	2.65	1.84	0.58	
2480MHz	1.23	±1	2.23	1.67	0.53	
Conclusion: the calculated value ≤3.0, SAR is exempted.						