

RF EXPOSURE EVALUATION METHOD

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

According to KDB 447498 D01 General RF Exposure Guidance v06, 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 Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

EUT Specification

_or opcomodion					
EUT	Atari Wireless Game Pad				
FCC ID	2BLZ9CX78				
Frequency band	□ WLAN: 2.412GHz ~ 2.462GHz				
(Operating)	□ WLAN: 5.150GHz ~ 5.250GHz				
	□ WLAN: 5.725GHz ~ 5.850GHz				
Device category	□ Portable (<20cm separation)				
	☐ Mobile (>20cm separation)				
	□ Others				
Exposure classification	☐ Occupational/Controlled exposure (S = 5mW/cm²)				
	□ General Population/Uncontrolled exposure				
	(S=1mW/cm ²)				
Antenna diversity	⊠ Single antenna				
	□ Multiple antennas				
	☐ Tx diversity				
	☐ Rx diversity				
	☐ Tx/Rx diversity				
Max. output power	-1.57dBm (0.000697W)				
Antenna gain (Max)	-0.58 dBi				
Evaluation applied					
	□ SAR Evaluation				



RF EXPOSURE EVALUATION METHOD SAR Test Exclusion Thresholds for 100 MHz − 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

MHz	5	10	15	20	25	mm			
150	39	77	116	155	194				
300	27	55	82	110	137				
450	22	45	67	89	112	SAR Test Exclusion Threshold (mW)			
835	16	33	49	66	82				
900	16	32	47	63	79				
1500	12	24	37	49	61				
1900	11	22	33	44	54				
2450	10	19	29	38	48				
3600	8	16	24	32	40				
5200	7	13	20	26	33				
5400	6	13	19	26	32				
5800	6	12	19	25	31				

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)] • [$\sqrt{f(GHz)}$] \leq 3.0 for 1-g SAR and \leq 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 calculation

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 \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.



For 2.4G Measurement Data

Operat ing Mode	Frequen cy	Field strength	EIRP	Max tune-up	Antenna Gain	Antenna Gain	min. test separation distance	Result	Limit
	(MHz)	(dBuV/m @3)	(dBm)	(mW)	(dBi)	(linear)	(mm)		
GFSK	2403	93.59	-1.57	0.697	-0.58	0.87	5	0.1890	3
	2440	89.71	-5.45	0.285	-0.58	0.87	5	0.0779	3
	2478	85.77	-9.39	0.115	-0.58	0.87	5	0.0317	3

 $EIRP=E_{Meas}+20log(d_{Meas})-104.7$

EIRP is the equivalent isotropically radiated power, in dBm

 E_{Meas} is the field strength of the emission at the measurement distance, in $dBuV\!/m$

 d_{Meas} is the measurement distance, in \boldsymbol{m}

Conclusion: No SAR is required.