

RF Exposure Evaluation

FCC ID: 2AKZY-JZ807A

REQUIREMENT

KDB447498 D01 General RF Exposure Guidance v06, Clause 4.3.1(a)

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$

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 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 according to 4.1 f) is applied to determine SAR test exclusion.

TEST RESULT

☒ **Passed**

☐ **Not Applicable**

802.11b Single mode(Worst case) For 2.4GHz WIFI

Test mode	Channel Frequency (MHz)	Max. Measure d Power (dBm)	Max. Tune up tolerance Power (dBm)	Max. Tune up tolerance Power (mW)	Calculatin g data	Limit	Results
802.11b	2412	7.57	7±1	6.31	1.9598	3.00	Pass
	2437	8.00	7±1	6.31	1.9700		
	2462	7.32	7±1	6.31	1.9800		

802.11a Single mode(Worst case) For 5GHz WIFI

Test mode	Channel Frequency (MHz)	Max. Measure d Power (dBm)	Max. Tune up tolerance Power (dBm)	Max. Tune up tolerance Power (mW)	Calculatin g data	Limit	Results
802.11a	5180	6.63	6±1	5.01	2.2814	3.00	Pass
	5200	6.65	6±1	5.01	2.2858		
	5210	6.71	6±1	5.01	2.2945		

BLE

Test mode	Channel Frequency (MHz)	Max. Measure d Power (dBm)	Max. Tune up tolerance Power (dBm)	Max. Tune up tolerance Power (mW)	Calculatin g data	Limit	Results
GFSK	2402	-0.98	-1±1	1.00	0.3100	3.00	Pass
	2440	-1.21	-1±1	1.00	0.3124		
	2480	-1.43	-1±1	1.00	0.3150		

DH5 mode(Worst case) For EDR

Test mode	Channel Frequency (MHz)	Max. Measure d Power (dBm)	Max. Tune up tolerance Power (dBm)	Max. Tune up tolerance Power (mW)	Calculatin g data	Limit	Results
DH5	2402	-0.40	-1±1	1.00	0.3100	3.00	Pass
	2441	-0.36	-1±1	1.00	0.3125		
	2480	-1.54	-1±1	1.00	0.3150		

Note:

-The maximum antenna gain is 0.8dBi for 2.4G WIFI, -1.0dBi for BT, 0.75dBi for 5G WIFI。

-The exposure safety distance is less than 5mm.

-Only the worst case recorded.

-2.4G WIFI and 5G WIFI no simultaneous transmission .

-The WIFI and BT can transmit simultaneously and

MPE ratio (BT + 5G WIFI) = 0.315+2.2945 = 2.6095< 3

and it satisfy the RF exposure requirements for simultaneous transmission that the sum of the MPE radios < 3

--THE END--