RF EXPOSURE EVALUATION

FCC ID: ZJP-RAINEVERRY5PR

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):

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)] $\cdot [\sqrt{f_{(GHz)}}] \le 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, ¹⁶ 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 \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

	Channel (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)		Max Tune Up Power (dBm)		Calculation results	Limit	Operating Mode
	2402	-2.77	-2.77	±1	-1.770	5	0.206	3	
BDR	2441	-1.01	-1.01	±1	-0.010	5	0.312	3	GFSK
	2480	-0.51	-0.51	±1	0.490	5	0.353	3	
	2402	-1.95	-1.95	±1	-0.950	5	0.249	3	
EDR	2441	-0.21	-0.21	±1	0.790	5	0.375	3	π/4DQPSK
	2480	0.34	0.34	±1	1.340	5	0.429	3	
	2402	0.02	0.02	± 1	1.020	5	0.392	3	
EDR	2441	0.23	0.23	±1	1.230	5	0.415	3	8-DPSK
	2480	0.79	0.79	±1	1.790	5	0.476	3	
	2402	-1.27	-1.27	±1	-0.270	5	0.291	3	
BLE	2440	-1.37	-1.37	±1	-0.370	5	0.287	3	GFSK
	2480	-0.15	-0.15	±1	0.850	5	0.383	3	

For L:

		Channel (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)		Max Tune Up Power (dBm)		Calculation results	Limit	Operating Mode	
		2402	-0.68	-0.68	± 1	0.320	5	0.334	3		
	BLE	2440	-0.98	-0.98	±1	0.020	5	0.314	3	GFSK	
	2480	-1.63	-1.63	±1	-0.630	5	0.272	3		l	

For R:

	Channel (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)		Max Tune Up Power (dBm)		Calculation results	Limit	Operating Mode	
	2402	-1.48	-1.48	± 1	-0.480	5	0.278	3		ı
BLE	2440	-1.47	-1.47	±1	-0.470	5	0.280	3	GFSK	ı
	2480	-2.79	-2.79	±1	-1.790	5	0.209	3		Ì

Note: The BT module can not simultaneous transmission.

Result: No Standalone SAR test is required.