

FCC ID: 2A3PX-RAU1

Portable device

According to §15.247(e)(i) and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

According to KDB447498 D01 General RF Exposure Guidance V06

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

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot \sqrt{f(\text{GHz})} \leq 3.0$ for 1-g SAR and ≤ 7.5 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 calculation
- The result is rounded to one decimal place for comparison

When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

BT:

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	4.91	3.10	5±1	6.00	3.98	<5	1.23400	3.00	YES
	2.44	4.383	2.74	5±1	6.00	3.98	<5	1.24373	3.00	YES
	2.480	3.86	2.43	4±1	5.00	3.16	<5	0.99599	3.00	YES

Conclusion:

For the max result : $1.24373 \leq \text{FCC Limit } 3.0$ for 1g SAR.

EDR:

Modulation	Channel Freq. (GHz)	Conduct ed power (dBm)	Conducte d power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculatio n	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	5.374	3.45	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.44	4.032	2.53	5±1	6.00	3.98	<5	1.24373	3.00	YES
	2.480	3.797	2.40	4±1	5.00	3.16	<5	0.99599	3.00	YES
Pi/4 DQPSK	2.402	5.015	3.17	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	3.74	2.37	4±1	5.00	3.16	<5	0.98813	3.00	YES
	2.480	3.311	2.14	4±1	5.00	3.16	<5	0.99599	3.00	YES
8DPSK	2.402	5.302	3.39	6±1	7.00	5.01	<5	1.55352	3.00	YES
	2.441	4.024	2.53	5±1	6.00	3.98	<5	1.24398	3.00	YES
	2.480	3.795	2.40	4±1	5.00	3.16	<5	0.99599	3.00	YES

Conclusion:

For the max result : $1.55352 \leq \text{FCC Limit } 3.0$ for 1g SAR.

2.4G wifi:

Modulation	Channel Freq. (GHz)	Conducted power (dBm)	Conducted power (mW)	Tune-up power (dBm)	Max tune-up power (dBm)	Max tune-up power (mW)	Distance (mm)	Result calculation	SAR Exclusion threshold	SAR test exclusion
802.11b	2.412	7.59	5.74	7.5±0.5	8.00	6.31	<5	1.95983	3.00	YES
	2.44	7.34	5.42	7.5±0.5	8.00	6.31	<5	1.97117	3.00	YES
	2.462	7.58	5.73	7.5±0.5	8.00	6.31	<5	1.98004	3.00	YES
802.11g	2.412	6.41	4.38	6.5±0.5	7.00	5.01	<5	1.55675	3.00	YES
	2.44	6.48	4.45	6.5±0.5	7.00	5.01	<5	1.56576	3.00	YES
	2.462	6.51	4.48	6.5±0.5	7.00	5.01	<5	1.57280	3.00	YES
802.11(H T20)	2.412	6.65	4.62	6.5±0.5	7.00	5.01	<5	1.55675	3.00	YES
	2.44	6.52	4.49	6.5±0.5	7.00	5.01	<5	1.56576	3.00	YES
	2.462	6.47	4.44	6.5±0.5	7.00	5.01	<5	1.57280	3.00	YES
802.11(H T40)	2.422	5.66	3.68	6±0.5	6.50	4.47	<5	1.39033	3.00	YES
	2.44	5.14	3.27	5.5±0.5	6.00	3.98	<5	1.24373	3.00	YES
	2.452	4.86	3.06	5±0.5	5.50	3.55	<5	1.11119	3.00	YES

Conclusion:

For the max result : $1.98004 \leq \text{FCC Limit } 3.0$ for 1g SAR.