

FCC ID:2APRQ-M4

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.

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	7.179	5.22	7±1	8.00	6.31	<5	1.95576	3.00	YES
	2.441	7.41	5.51	7±1	8.00	6.31	<5	1.97158	3.00	YES
	2.480	7.963	6.26	7±1	8.00	6.31	<5	1.98727	3.00	YES
π /4DQPSK	2.402	7.332	5.41	7±1	8.00	6.31	<5	1.95576	3.00	YES
	2.441	7.62	5.78	7±1	8.00	6.31	<5	1.97158	3.00	YES
	2.480	8.284	6.74	8±1	9.00	7.94	<5	2.50182	3.00	YES
8DQPSK	2.402	7.46	5.57	7±1	8.00	6.31	<5	1.95576	3.00	YES
	2.441	7.688	5.87	7±1	8.00	6.31	<5	1.97158	3.00	YES
	2.480	8.326	6.80	8±1	9.00	7.94	<5	2.50182	3.00	YES

BLE:1M

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	3.842	2.42	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.44	3.906	2.46	3±1	4.00	2.51	<5	0.78474	3.00	YES
	2.480	3.553	2.27	3±1	4.00	2.51	<5	0.79114	3.00	YES

BLE:2M

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	3.877	2.44	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.44	3.863	2.43	3±1	4.00	2.51	<5	0.78474	3.00	YES
	2.480	3.475	2.23	3±1	4.00	2.51	<5	0.79114	3.00	YES

Conclusion:

For the max result : $2.50182 \leq$ FCC Limit 3.0 for 1g SAR.