

**FCC ID: 2APU8CQL1972-B**

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  $\leq 50$  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  $\leq 7.5$  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 calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	3.207	2.09	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	2.977	1.98	2±1	3.00	2.00	<5	0.62347	3.00	YES
	2.480	2.785	1.90	2±1	3.00	2.00	<5	0.62843	3.00	YES
π /4DQPSK	2.402	3.909	2.46	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	3.718	2.35	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	3.46	2.22	3±1	4.00	2.51	<5	0.79114	3.00	YES
8DQPSK	2.402	4.226	2.65	4±1	5.00	3.16	<5	0.98020	3.00	YES
	2.441	3.98	2.50	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	3.712	2.35	3±1	4.00	2.51	<5	0.79114	3.00	YES

**Conclusion:**

For the max result :  $0.98020 \leq$  FCC Limit 3.0 for 1g SAR.