

FCC ID: 2APMJAIRBUDS

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(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: Left

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	6.71	4.69	7±1	8	6.31	<5	1.95576	3.00	YES
	2.441	6.38	4.35	7±1	8	6.31	<5	1.97158	3.00	YES
	2.480	6.51	4.48	7±1	8	6.31	<5	1.98727	3.00	YES
π/4-DQPSK	2.402	6.58	4.55	7±1	8	6.31	<5	1.95576	3.00	YES
	2.441	6.35	4.32	7±1	8	6.31	<5	1.97158	3.00	YES
	2.480	6.47	4.44	7±1	8	6.31	<5	1.98727	3.00	YES
8-DPSK	2.402	6.73	4.71	7±1	8	6.31	<5	1.95576	3.00	YES
	2.441	6.37	4.34	7±1	8	6.31	<5	1.97158	3.00	YES
	2.480	6.54	4.51	7±1	8	6.31	<5	1.98727	3.00	YES

BLE: Left

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 (1M)	2.402	2.47	1.77	1±1	2	1.58	<5	0.49127	3.00	YES
	2.440	1.97	1.57	1±1	2	1.58	<5	0.49514	3.00	YES
	2.480	2.12	1.63	1±1	2	1.58	<5	0.49918	3.00	YES

BT: Right

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	6.65	4.62	7±1	8	6.31	<5	1.95576	3.00	YES
	2.441	6.36	4.33	7±1	8	6.31	<5	1.97158	3.00	YES
	2.480	6.52	4.49	7±1	8	6.31	<5	1.98727	3.00	YES
π/4-DQPSK	2.402	6.58	4.55	7±1	8	6.31	<5	1.95576	3.00	YES
	2.441	6.35	4.32	7±1	8	6.31	<5	1.97158	3.00	YES
	2.480	6.48	4.45	7±1	8	6.31	<5	1.98727	3.00	YES
8-DPSK	2.402	6.61	4.58	7±1	8	6.31	<5	1.95576	3.00	YES
	2.441	6.33	4.30	7±1	8	6.31	<5	1.97158	3.00	YES
	2.480	6.44	4.41	7±1	8	6.31	<5	1.98727	3.00	YES

BLE: Right

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 (1M)	2.402	2.48	1.77	2±1	3	2.00	<5	0.61847	3.00	YES
	2.440	1.94	1.56	2±1	3	2.00	<5	0.62334	3.00	YES
	2.480	2.11	1.63	2±1	3	2.00	<5	0.62843	3.00	YES

Conclusion:

For the max result : $1.98727 \leq 3.0$ for 1g SAR, No SAR is required.


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