

FCC ID: 2ASDN-K78**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.

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	9.78	9.51	8.8±1	9.8	9.55	<5	2.96632	3.00	YES
	2.442	9.75	9.44	8.8±1	9.8	9.55	<5	2.98471	3.00	YES
	2.462	9.69	9.31	8.8±1	9.8	9.55	<5	2.99691	3.00	YES
802.11g	2.412	8.79	7.57	8±1	9	7.94	<5	2.46728	3.00	YES
	2.442	8.89	7.74	8±1	9	7.94	<5	2.48258	3.00	YES
	2.462	8.68	7.38	8±1	9	7.94	<5	2.49272	3.00	YES
802.11n HT20	2.412	7.89	6.15	7±1	8	6.31	<5	1.95983	3.00	YES
	2.442	7.88	6.14	7±1	8	6.31	<5	1.97198	3.00	YES
	2.462	7.95	6.24	7±1	8	6.31	<5	1.98004	3.00	YES

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 calculation	SAR Exclusion threshold	SAR test exclusion
GFSK	2.402	0.88	1.22	1±1	2	1.58	<5	0.49127	3.00	YES
	2.441	0.97	1.25	1±1	2	1.58	<5	0.49524	3.00	YES
	2.480	0.71	1.18	1±1	2	1.58	<5	0.49918	3.00	YES
$\pi/4$ -DQPSK	2.402	-0.87	0.82	0±1	1	1.26	<5	0.39023	3.00	YES
	2.441	-0.4	0.91	0±1	1	1.26	<5	0.39338	3.00	YES
	2.480	0.12	1.03	0±1	1	1.26	<5	0.39651	3.00	YES
8-DPSK	2.402	-0.47	0.90	0±1	1	1.26	<5	0.39023	3.00	YES
	2.441	0.03	1.01	0±1	1	1.26	<5	0.39338	3.00	YES
	2.480	0.61	1.15	0±1	1	1.26	<5	0.39651	3.00	YES

BLE:

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	0.99	1.26	1±1	2	1.58	<5	0.49127	3.00	YES
	2.440	1.21	1.32	1±1	2	1.58	<5	0.49514	3.00	YES
	2.480	1.32	1.36	1±1	2	1.58	<5	0.49918	3.00	YES

Note: The wireless function of the device cannot be transmitted simultaneously.

Conclusion:

For the max result : $2.99691 \leq 3.0$ for Max Power Density, compliance RF exposure.

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Signature:

Date: 2019-07-03

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