

**FCC ID:2AEKR-TG08RK1**

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.

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	2.54	1.79	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	3.34	2.16	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	2.95	1.97	2±1	3.00	2.00	<5	0.62843	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	2.31	1.70	2±1	3.00	2.00	<5	0.61847	3.00	YES
	2.441	3.13	2.06	3±1	4.00	2.51	<5	0.78490	3.00	YES
	2.480	2.73	1.87	2±1	3.00	2.00	<5	0.62843	3.00	YES
Pi/4 DQPSK	2.402	3.67	2.33	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	4.42	2.77	4±1	5.00	3.16	<5	0.98813	3.00	YES
	2.480	3.94	2.48	3±1	4.00	2.51	<5	0.79114	3.00	YES
8DPSK	2.402	3.91	2.46	3±1	4.00	2.51	<5	0.77860	3.00	YES
	2.441	4.68	2.94	4±1	5.00	3.16	<5	0.98813	3.00	YES
	2.480	4.21	2.64	4±1	5.00	3.16	<5	0.99599	3.00	YES



## 2.4G WIFI:

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
802.11b	2.412	8.17	6.56	8±1	9.00	7.94	<5	2.46728	3.00	YES
	2.437	8.1	6.46	8±1	9.00	7.94	<5	2.48003	3.00	YES
	2.462	7.65	5.82	7±1	8.00	6.31	<5	1.98004	3.00	YES
802.11g	2.412	6.82	4.81	6±1	7.00	5.01	<5	1.55675	3.00	YES
	2.437	6.88	4.88	6±1	7.00	5.01	<5	1.56480	3.00	YES
	2.462	6.84	4.83	6±1	7.00	5.01	<5	1.57280	3.00	YES
802.11n20	2.412	5.24	3.34	5±1	6.00	3.98	<5	1.23657	3.00	YES
	2.437	5.23	3.33	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.462	5.3	3.39	5±1	6.00	3.98	<5	1.24932	3.00	YES
802.11n40	2.422	5.58	3.61	5±1	6.00	3.98	<5	1.23913	3.00	YES
	2.437	5.82	3.82	5±1	6.00	3.98	<5	1.24296	3.00	YES
	2.452	5.51	3.56	5±1	6.00	3.98	<5	1.24678	3.00	YES

## 5.2G WIFI:

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
802.11a	5.180	7.070	5.09	7±1	8.00	6.31	<5	2.87207	3.00	YES
	5.200	7.070	5.09	7±1	8.00	6.31	<5	2.87761	3.00	YES
	5.240	7.150	5.19	7±1	8.00	6.31	<5	2.88865	3.00	YES
802.11n20	5.180	7.090	5.12	7±1	8.00	6.31	<5	2.87207	3.00	YES
	5.200	6.910	4.91	6±1	7.00	5.01	<5	2.28577	3.00	YES
	5.240	6.960	4.97	6±1	7.00	5.01	<5	2.29454	3.00	YES
802.11n40	5.190	6.890	4.89	6±1	7.00	5.01	<5	2.28357	3.00	YES
	5.230	6.980	4.99	6±1	7.00	5.01	<5	2.29235	3.00	YES
802.11ac20	5.180	5.790	3.79	5±1	6.00	3.98	<5	1.81215	3.00	YES
	5.200	5.450	3.51	5±1	6.00	3.98	<5	1.81565	3.00	YES
	5.240	5.520	3.56	5±1	6.00	3.98	<5	1.82262	3.00	YES
802.11ac40	5.190	5.730	3.74	5±1	6.00	3.98	<5	1.81390	3.00	YES
	5.230	5.170	3.29	5±1	6.00	3.98	<5	1.82088	3.00	YES
802.11ac80	5.210	5.180	3.30	5±1	6.00	3.98	<5	1.81739	3.00	YES



5.8G WIFI:

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
802.11a	5.745	6.990	5.00	6±1	7.00	5.01	<5	2.40256	3.00	YES
	5.785	6.040	4.02	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	6.870	4.86	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11n20	5.745	6.660	4.63	6±1	7.00	5.01	<5	2.40256	3.00	YES
	5.785	6.480	4.45	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	6.180	4.15	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11n40	5.755	6.010	3.99	6±1	7.00	5.01	<5	2.40465	3.00	YES
	5.795	6.750	4.73	6±1	7.00	5.01	<5	2.41300	3.00	YES
802.11ac20	5.745	6.530	4.50	6±1	7.00	5.01	<5	2.40256	3.00	YES
	5.785	6.740	4.72	6±1	7.00	5.01	<5	2.41091	3.00	YES
	5.825	6.830	4.82	6±1	7.00	5.01	<5	2.41923	3.00	YES
802.11ac40	5.755	6.960	4.97	6±1	7.00	5.01	<5	2.40465	3.00	YES
	5.795	6.770	4.75	6±1	7.00	5.01	<5	2.41300	3.00	YES
802.11ac80	5.775	5.510	3.56	5±1	6.00	3.98	<5	1.91340	3.00	YES

**Conclusion:**

For the max result :  $2.88865\text{W/Kg} \leq \text{FCC Limit } 3.0 \text{ for } 1\text{g SAR}.$

The Product unsupported at the same time to Transmitting.