

FCC ID: 2BTX7-SAVI-01**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.

BLE1M:

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	-3.546	0.44	-3 $\pm$ 1	-2.00	0.63	<5	0.19558	3.00	YES
	2.441	-2.681	0.54	-2 $\pm$ 1	-1.00	0.79	<5	0.24821	3.00	YES
	2.480	-2.873	0.52	-2 $\pm$ 1	-1.00	0.79	<5	0.25018	3.00	YES

BLE2M:

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	-3.452	0.45	-3 $\pm$ 1	-2.00	0.63	<5	0.19558	3.00	YES
	2.441	-2.584	0.55	-2 $\pm$ 1	-1.00	0.79	<5	0.24821	3.00	YES
	2.480	-2.739	0.53	-2 $\pm$ 1	-1.00	0.79	<5	0.25018	3.00	YES

2.4GWIFI:

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	7.58	5.73	7 $\pm$ 1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.495	5.62	7 $\pm$ 1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.264	5.33	7 $\pm$ 1	8.00	6.31	<5	1.98004	3.00	YES
802.11g	2.412	7.943	6.23	7 $\pm$ 1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.203	5.25	7 $\pm$ 1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.82	6.05	7 $\pm$ 1	8.00	6.31	<5	1.98004	3.00	YES
802.11n(HT20)	2.412	7.07	5.09	7 $\pm$ 1	8.00	6.31	<5	1.95983	3.00	YES
	2.437	7.208	5.26	7 $\pm$ 1	8.00	6.31	<5	1.96996	3.00	YES
	2.462	7.771	5.99	7 $\pm$ 1	8.00	6.31	<5	1.98004	3.00	YES
802.11n(HT40)	2.422	7.814	6.05	7 $\pm$ 1	8.00	6.31	<5	1.96389	3.00	YES
	2.437	7.575	5.72	7 $\pm$ 1	8.00	6.31	<5	1.96996	3.00	YES
	2.452	7.504	5.63	7 $\pm$ 1	8.00	6.31	<5	1.97601	3.00	YES

5GWIFI:

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
802.11a20	5.18	7.758	5.97	7±1	8.00	6.31	<5	2.87207	3.00	YES
	5.2	7.61	5.77	7±1	8.00	6.31	<5	2.87761	3.00	YES
	5.24	7.799	6.02	7±1	8.00	6.31	<5	2.88865	3.00	YES
802.11ac20	5.18	7.171	5.21	7±1	8.00	6.31	<5	2.87207	3.00	YES
	5.2	7.783	6.00	6±1	8.00	6.31	<5	2.87761	3.00	YES
	5.24	7.949	6.24	7±1	8.00	6.31	<5	2.88865	3.00	YES
802.11ac40	5.19	7.472	5.59	7±1	8.00	6.31	<5	2.87484	3.00	YES
	5.23	7.621	5.78	7±1	8.00	6.31	<5	2.88590	3.00	YES
802.11ac80	5.21	7.522	5.65	7±1	8.00	6.31	<5	2.88037	3.00	YES
802.11n(HT20)	5.18	7.071	5.09	7±1	8.00	6.31	<5	2.87207	3.00	YES
	5.2	7.63	5.79	7±1	8.00	6.31	<5	2.87761	3.00	YES
	5.24	7.47	5.58	7±1	8.00	6.31	<5	2.88865	3.00	YES
802.11n(HT40)	5.19	7.674	5.85	7±1	8.00	6.31	<5	2.87484	3.00	YES
	5.23	7.779	6.00	7±1	8.00	6.31	<5	2.88590	3.00	YES

Conclusion:

For the max result : 2.88865≤ FCC Limit 3.0 for 1g SAR.