FCC ID: 2ARN3-022611TX Portable device

According to §15.247(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 and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * [(MOU) = 2.0 for 4 m OAD, and ≤ 7.5 for 40 m outputs to 0.4 D, where

[\checkmark f(GHz)] \leqslant 3.0 for 1-g SAR $\,$ and \leqslant 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;

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion. We use 5mm as separation distance to calculate.

Maximum measured transmitter power:

l	UHF					
		Channel Freq. (MHz)	Max Transmit Power (dBm)	Max tune-up power (dBm)	Result calculation	1-g SAR
	GFSK	550.0	1.21	2	0.24	3.0
G		579.0	1.12	2	0.24	3.0
		607.9	0.14	1	0.20	3.0

BLE

	Channel Freq. (MHz)	Max Transmit Power (dBm)	Max tune-up power (dBm)	Result calculation	1-g SAR
	2402	4.35	5	0.98	3.0
GFSK 1M	2440	4.81	5	0.99	3.0
	2480	5.92	6	1.25	3.0
	2402	4.37	5	0.98	3.0
GFSK 2M	2440	4.83	5	0.99	3.0
	2480	6.06	7	1.58	3.0

GFSK

Main Power: 93.27dBµV/m=93.27-95.2=-1.93dBm Greater than 1G: -1.93dBm

	Channel Freq. (MHz)	Max Transmit Power (dBm)	Max tune-up power (dBm)	Result calculation	1-g SAR
GFSK	2402	-1.93	-1	0.25	3.0

The worst total RF exposure as follows:

UHF + BLE +GFSK:0.24/3.0+1.58/3.0+0.25/3.0=0.08+0.5266+0.0833=0.69

Conclusion:

For the max result : $0.69 \le 1.0$, No SAR is required.