Anbotek Product Safety

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Anbotek

RF EXPOSURE EVALUATION

FCC ID: 2BDJR-XKM01-M

According to KDB 447498 D01 Mobile and Portable Devices RF Exposure Procedures and Equipment Authorization Policies v06.

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b):

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:

 $[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [\sqrt{f_{(GHz)}}] \leq 3.0$ for 1-g SAR and ≤ 7.5 for 10-g extremity SAR,¹⁶ where

- f_(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation¹⁷
- 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 \leq 5 mm, a distance of 5 mm is applied to determine SAR test exclusion.

Routine SAR evaluation refers to that specifically required by §2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

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Channel (MHz)	Maximum output power (dBm)	Tune up tolerance (dBm)			Calculation results	Limit	Operating Mode
2402	-1.51	-1.51 ±1	-0.510	5 Anbo	0.276	3	nbotek
2440	-1.30	-1.30 ±1	-0.300	5	0.292	3	BLE
2480	-1.40	-1.40 ±1	-0.400	5	0.287	30010	Ann
2403	-4.65	-4.65 ±1	-3.650	5	0.134	3 📩	oter Ant
2441	* -4.91	-4.91 ±1	-3.910	Anb5	0.127	ه ،	SRD
2480	-6.30	-6.30 ±1	-5.300	5 poter	0.093	3	n abotek
	(MHz) 2402 2440 2480 2403 2441	Channel (MHz) output power (dBm) 2402 -1.51 2440 -1.30 2480 -1.40 2403 -4.65 2441 -4.91	Channel (MHz) output power (dBm) Tune up tolerance (dBm) 2402 -1.51 ±1 2400 -1.30 ±1 2440 -1.30 ±1 2480 -1.40 ±1 2403 -4.65 ±4.65 2441 -4.91 ±4.91	Channel (MHz)output power (dBm)Tune up tolerance (dBm)Max Tune Up Power (dBm)2402 -1.51 -1.51 ± 1 -0.510 2440 -1.30 -1.30 ± 1 -0.300 2480 -1.40 -1.40 ± 1 -0.400 2403 -4.65 -4.65 ± 1 -3.650 2441 -4.91 -4.91 ± 1 -3.910	Channel (MHz) output power (dBm) Tune up tolerance (dBm) Max Tune Up Power (dBm) Distance (mm) 2402 -1.51 ±1 -0.510 5 2440 -1.30 ±1 -0.300 5 2480 -1.40 ±1 -0.400 5 2403 -4.65 ±1 -3.650 5 2441 -4.91 ±1 -3.910 5	Channel (MHz)output power (dBm)Tune up tolerance (dBm)Max Tune Up Power (dBm)Distance (mm)Calculation results2402-1.51-1.51 ± 1 -0.51050.2762440-1.30 ± 1 -0.30050.2922480-1.40 ± 1 -0.40050.2872403-4.65 ± 1 -3.65050.1342441-4.91 ± 1 -3.91050.127	Channel (MHz) output power (dBm) Tune up tolerance (dBm) Max Tune Up Power (dBm) Distance (mm) Calculation results Limit 2402 -1.51 -1.51 ±1 -0.510 5 0.276 3 2400 -1.30 ±1 -0.300 5 0.292 3 2440 -1.40 ±1 -0.400 5 0.287 3 2403 -4.65 ±1 -3.650 5 0.134 3 2441 -4.91 ±1 -3.910 5 0.127 3

Note: The BLE and SRD can't simultaneous transmission

Result: No Standalone SAR test is required.

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