

CTK CO., Ltd. (Ho-dong), 113, Yejik-ro, Cheoin-gu, Yongin-si, Gyeonggi-do, Korea Tel: +82-31-339-9970 Fax: +82-31-624-9501 www.e-ctk.com

** RF Exposure Evaluation**

FCC ID : 2AFWN-CD01BTS01W

Limits

SAR Test Exclusion Thresholds for 100 MHz - 6 GHz and \leq 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table, The equation and threshold in Note 1 must be applied to determine SAR test exclusion.

MHz	5	10	15	20	25	mm		
150	39	77	116	155	194	~		
300	27	55	82	110	137	8		
450	22	45	67	89	112	r G		
835	16	33	49	66	82			
900	16	32	47	63	79	SAR Test Exclusion Threshold (mW)		
1500	12	24	37	49	61			
1900	11	22	33	44	54			
2450	10	19	29	38	48			
3600	8	16	24	32	40			
5200	7	13	20	26	33			
5400	6	13	19	26	32			
5800	6	12	19	25	31			
MHz	30	35	40	45	50	mm		
150	232	271	310	349	387	2		
300	164	192	219	246	274			
450	134	157	179	201	224	8 •		
835	98	115	131	148	164			
900	95	111	126	142	158	SAR Test Exclusion Threshold (mW)		
1500	73	86	98	110	122			
1900	65	76	87	98	109			
2450	57	67	77	86	96			
3600	47	55	63	71	79			
5200	39	46	53	59	66			
5400	39	45	52	58	65			
5800	37	44	50	56	62			

Note 1:

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 :



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[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]* [$\sqrt{f(GHz)}$] ≤ 3.0 for 1-g SAR and ≤ 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
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

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 according to 4.1f) is applied to determine SAR test exclusion.

Output Power:

Mode	Frequency [MHz]	Maximum output power to antenna [dBm]	Power tolerance [dB]	Maximum output power to antenna (including tune-up tolerance)		SAR Test Exclusion Threshold [mW]
				[dBm]	[mW]	
BLE	2 402	4	1.5	5.5	3.55	10

Per FCC KDB 447498 D01v06, the SAR exclusion threshold for distances \leq 50mm is defined by the following equation :

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)]* [$\sqrt{f}(GHz)$] ≤ 3.0

Base on the maximum conducted power of the antenna to use separation distance, SAR was not required;

Bluetooth LE : $[(3.55 / 5) * \sqrt{2.402}] = 1.10 (\leq 3.0)$

Result : As a result of the calculation above, the SAR test is exempt.