

Report No.: MAX25040147P01-R01RF

RF EXPOSURE EVALUATION METHOD

According to KDB 447498 D01 General RF Exposure Guidance v06, Unless specifically required by the *published RF exposure KDB procedures*, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding *SAR Test Exclusion Threshold* condition(s), listed below, is (are) satisfied.

For 100 MHz to 6 GHz and test separation distances \leq 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

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

 $f_{(\mbox{\scriptsize GHz})}$ 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

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)

EUT Specification

EUT	LED Car floor mat							
FCC ID	2BKNG-TSD-B01							
Frequency band	□ WLAN: 2.412GHz ~ 2.462GHz							
(Operating)	□ WLAN: 5.150GHz ~ 5.250GHz							
	□ WLAN: 5.725GHz ~ 5.850GHz							
	☑ Others BT:2402-2480MHz							
Device category	☑ Portable (<20cm separation)							
5,	□ Mobile (>20cm separation)							
	□ Others 0							
Exposure classification	\Box Occupational/Controlled exposure (S = 5mW/cm2)							
12	General Population/Uncontrolled exposure							
	(S=1mW/cm ²)							
Antenna diversity	Single antenna							
-	Multiple antennas							
	□ Tx diversity							
	□ Rx diversity							
	□ Tx/Rx diversity							
Max. output power	2.743 dBm (0.00188W)	h_{i}						
Antenna gain (Max)	0 dBi							
Evaluation applied	MPE Evaluation							
	□ SAR Evaluation							

MAXLAB Testing Co.,Ltd.

MaxLab

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RF EXPOSURE EVALUATION METHOD 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.

5	10	15	20	25	mm			
39	77	116	155	194				
27	55	82	110	137				
22	45	67	89	112				
16	33	49	66	82				
16	32	47	63	79				
12	24	37	49	61	SAR Test Exclusion			
11	22	33	44	54	Threshold (mW)			
10	19	29	38	48				
8	16	24	32	40				
7	13	20	26	33				
6	13	19	26	32				
6	12	19	25	31				
	39 27 22 16 16 12 11 10 8 7 6	39 77 27 55 22 45 16 33 16 32 12 24 11 22 10 19 8 16 7 13 6 13	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			

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)] • $[\sqrt{f(GHz)}] \le 3.0$ 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

The test exclusions are applicable only when the minimum test separation distance is ≤ 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.



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Operating Mode	Freque ncy	Measur ed Power	max. power	Antenna Gain	min. test separation distance	[√f(GHz)]	Result	Limit
	(MHz)	(dBm)	(mW)	(dBi)	(mm)			
U.	2402	2.325	1.71	0	5	1.550	0.5294	3
GFSK	2440	2.561	1.80	0	5	1.562	0.5635	3
	2480	2.743	1.88	0	5	1.575	0.5923	3

Maximum measured transmitter power.

Remark: The best case gain of the antenna is 0dBi.

0dBi logarithmic terms convert to numeric result is nearly 1.0

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)] $\cdot [\sqrt{f(GHz)}]$

The test Result is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Conclusion: No SAR is required.