FCC ID: NMTSMS001

## RF EXPOSURE EVALUATION METHOD

## According to KDB 447498 D01 General RF Exposure Guidance v06

## 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 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)] • [ $\sqrt{f(GHz)}$ ]  $\leq 3.0$  for 1-g SAR and  $\leq 7.5$  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.

## Maximum measured transmitter power.

BT 4.0 BLE							
Test Channel	Frequency	PK Output Power	PK Output Power				
	(MHz)	(dBm)	(mW)				
CH01	2402	3.78	2.3878				
CH20	2440	3.69	2.3388				
CH40	2480	3.89	2.4491				
max. technical PK output power	1	4.00	2.51				

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

0 dBi logarithmic terms convert to numeric result is nearly 1

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

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

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BT 4.0 BLE							
Mode	[(max. power of channel, including tune-up tolerance, mW)	(min. test separation distance,mm)]	[√f(GHz)]	Result	Limit		
CH00	2.51	5	√2.402	0.778	3		
CH39	2.51	5	√2.440	0.784	3		
CH78	2.51	5	√2.480	0.791	3		

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

Conclusion: No SAR is required.