

#### **RF EXPOSURE EVALUATION METHOD**

### FCC ID: 2AS3P-ITACT2

### According to KDB 447498 D01V06 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.

MHz 150 300 450 835 900 1500 1900 2450 3600 5200 5400 5800	5	10	15	20	25	mm
150	39	77	116	155	194	
300	27	55	82	110	137	
450	22	45	67	89	112	
835	16	33	49	66	82	
900	16	32	47	63	79	
1500	12	24	37	49	61	SAR Test Exclusion
1900	11	22	33	44	54	Threshold (mW)
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	

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.

# BCTC 倍测检测

BLE

L	Frequency	Maximum Conducted Output Power(PK)	Conducted Output Power Limit
	(MHz)	(dBm)	dBm
GFSK 1Mbps	2402	-0.258	30
	2440	0.703	30
	2480	0.605	30
GFSK 2Mbps	2402	-0.254	30
	2440	0.703	30
	2480	0.605	30

max possible output power (PK,conducted) : 0±1dBm

2dBi logarithmic terms convert to numeric result is nearly 1.58

1dBm=1.26mW

### 2402MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] · [√f(GHz)]= 1.26/5\*√2.402=0.39≤3.0

Threshold at which no SAR required is 10mw and  $\leq$  3.0 for 1-g SAR, Separation

distance is 5mm.

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### 2440MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)] · [√f(GHz)]= 1.26/5\*√2.441=0.39≤3.0

Threshold at which no SAR required is 10mw and  $\leq$  3.0 for 1-g SAR, Separation

distance is 5mm.

2480MHz

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation

distance,mm)]  $\cdot [\sqrt{f(GHz)}] = 1.26/5^* \sqrt{2.48} = 0.4 \le 3.0$ 

Threshold at which no SAR required is 10mw and  $\leq$  3.0 for 1-g SAR, Separation

distance is 5mm.

Conclusion: No SAR is required.