## **RF EXPOSURE EVALUATION METHOD**

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

MHz	5	10	15	20	25	mm		
150	39	77	116	155	194			
300	27	55	82	110	137			
450	22	45	67	89	112	SAR Test Exclusion Threshold (mW)		
835	16	33	49	66	82			
900	16	32	47	63	79			
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			

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.

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mode	Maximum Conducted power	Power tolerance(dBm)	Maximum tune-up conducted power		Calculated value	Threshold	
	(dBm)		dBm	mw	(distance≤5 mm)	(distance≤5m m)	Verdict
GFSK	0.955	1±1	2.0	1.585	0.49		Compliance,
π/4DQPSK	-0.092	0±1	1.0	1.258	0.39	3.0	SAR test is
8DPSK	0.072	0±1	1.0	FÈ258	0.40		exempted

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

separation distance,mm)] •  $[\sqrt{f(GHz)}] = 1.585/5^* \sqrt{2.402} = \leq 3.0$ 

Threshold at which no SAR required is 10mw and  $\leqslant$  3.0 for 1-g SAR, Separation distance is 5mm.

Conclusion: No SAR is required..