RF EXPOSURE TEST FCC ID: 2AIX4CAP-XX

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.

Distances are individued in the following Table.									
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				
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				
5000	6	12	19	25	31				
5800	0	12	19	23	51	ļ į			
MHz	30	35	40	45	50	mm			
						mm			
MHz	30	35	40	45	50	mm			
MHz 150	30 232	35 271	40 310	45 349	50 387	mm			
MHz 150 300	30 232 164	35 271 192	40 310 219	45 349 246	50 387 274	mm			
MHz 150 300 450	30 232 164 134	35 271 192 157	40 310 219 179	45 349 246 201	50 387 274 224				
MHz 150 300 450 835	30 232 164 134 98	35 271 192 157 115	40 310 219 179 131	45 349 246 201 148	50 387 274 224 164	SAR Test			
MHz 150 300 450 835 900	30 232 164 134 98 95	35 271 192 157 115 111	40 310 219 179 131 126	45 349 246 201 148 142	50 387 274 224 164 158	SAR Test Exclusion			
MHz 150 300 450 835 900 1500	30 232 164 134 98 95 73	35 271 192 157 115 111 86	40 310 219 179 131 126 98	45 349 246 201 148 142 110	50 387 274 224 164 158 122	SAR Test			
MHz 150 300 450 835 900 1500 1900	30 232 164 134 98 95 73 65	35 271 192 157 115 111 86 76	40 310 219 179 131 126 98 87	45 349 246 201 148 142 110 98	50 387 274 224 164 158 122 109	SAR Test Exclusion			
MHz 150 300 450 835 900 1500 1900 2450	30 232 164 134 98 95 73 65 57	35 271 192 157 115 111 86 76 67 55 46	40 310 219 179 131 126 98 87 77 63 53	45 349 246 201 148 142 110 98 86 71 59	50 387 274 224 164 158 122 109 96	SAR Test Exclusion			
MHz 150 300 450 835 900 1500 1900 2450 3600	30 232 164 134 98 95 73 65 57 47	35 271 192 157 115 111 86 76 67 55	40 310 219 179 131 126 98 87 77 63	45 349 246 201 148 142 110 98 86 71	50 387 274 224 164 158 122 109 96 79	SAR Test Exclusion			

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, 16 where

 $f_{(GHz)}$ is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation17

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.

BT 3.0+EDR	Г 3.0+EDR								
Channel	Frequency (MHz)	PK Output Power (dBm)	PK Output Power (mW)	Limit (dBm)					
CH0 (GFSK)	2402	1.28	1.34	21					

The BT max.output power E.I.R.P is 1.28dBm=1.34mW, Frequency is 2.402GHz So $(1.34/5)*\sqrt{2.402}=0.415 \le 3.0$ Note: $\sqrt{2.402}=1.550$ **Conclusion:** No SAR is required.