RF EXPOSURE EVALUATION METHOD

FCC ID: Z63-U0B219L

According to the section 4.3.1 of KDB 447498 D01 General RF Exposure Guidance v06.

Separation, Distances are illustrated 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	SAR Test Exclusion Threshold (mW)				
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					

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 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)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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 \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.

DID.0 WOISI Case						
Mode	2402-2480MHz					
Detector	Peak					
GFSK	2±1dBm					
π/4-DQPSK	2±1dBm					
8DPSK	2±1dBm					
GFSK_LE	5±1dBm					

BT5.0 Worst Case

Remark: The worst case gain of the antenna is 1dBi.

1dBi logarithmic terms convert to numeric result is nearly 1.26

Protocol	Channel Frequency (GHz)	Output Power to Antenna (dBm)	Tune Up Power (dBm)	Tune Up Power (mW)	Result	Limit
GFSK	2.480	2.69	3	2.00	0.63	3
π/4-DQPSK	2.441	2.65	3	2.00	0.62	3
8DPSK	2.480	2.68	3	2.00	0.63	3
GFSK_LE	2.402	5.74	6	3.98	1.25	3

Threshold at which no SAR required is 1.25≤ 3.0 for 1-g SAR, Separation distance is 5mm.