

Report No.: MAX25040211P01-R01

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### **RF EXPOSURE EVALUATION METHOD**

According to FCC 1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency(RF) Radiation as specified in §1.1307(b)

# **EUT Specification**

🛛 WLAN: 2.412GHz ~ 2.462GHz
WLAN: 5.150GHz ~ 5.250GHz
WLAN: 5.725GHz ~ 5.850GHz
Others BT:2402-2480MHz
Portable (<20cm separation)
Mobile (>20cm separation)
Others
Occupational/Controlled exposure (S = 5mW/cm2)
General Population/Uncontrolled exposure (S=1mW/cm2)
Single antenna
Multiple antennas
Tx diversity
Rx diversity
Tx/Rx diversity
9.522dBm (0.00896W)
4.2 dBi
MPE Evaluation
SAR Evaluation



#### RF EXPOSURE EVALUATION METHOD 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	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
1900	11	22	33	44	54	Exclusion Threshold (mW)
2450	10	19	29	38	48	Threshold (In W)
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.



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Mode	Freque ncy	Measur ed Power	max. power	Antenna Gain	min. test separation distance	[√f(GHz)]	Result	Limit
	(MHz)	(dBm)	(mW)	(dBi)	(mm)			
2412   802.11b 2437   2462	2412	9.522	8.96	4.2	5	1.553	2.7824	3
	2437	9.256	8.43	4.2	5	1.561	2.6306	3
	9.426	8.76	4.2	5	1.569	2.7496	3	
2412 802.11g 2437 2462	2412	7.526	5.66	4.2	5	1.553	1.7572	3
	2437	7.542	5.68	4.2	5	1.561	1.7728	3
	2462	7.265	5.33	4.2	5	1.569	1.6718	3
802.11n (HT20) 2437	2412	5.263	3.36	4.2	5	1.553	1.0436	3
	2437	5.415	3.48	4.2	5	1.561	1.0863	3
	2462	5.145	3.27	4.2	5	1.569	1.0261	3
802.11n (HT40) 2422 2437 2452	2422	3.562	2.27	4.2	5	1.556	0.7068	3
	2437	3.521	2.25	4.2	5	1.561	0.7024	3
	2452	3.624	2.30	4.2	5	1.566	0.7214	3
GFSK	2402	1.241	1.33	4.2	5	1.550	0.4125	3
	2440	1.652	1.46	4.2	5	1.562	0.4570	3
	2480	1.865	1.54	4.2	5	1.575	0.4839	3

#### Maximum measured transmitter power.

Note: Bluetooth and WiFi cannot be transmitted simultaneously

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)]  $\cdot$  [ $\sqrt{f}(GHz)$ ]

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.