RF EXPOSURE EVALUATION METHOD

FCC ID: 2A8BYRJ-758

According to KDB 447498 D01 General RF Exposure Guidance v06 and part 2.1093 Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Test Exclusion Threshold condition(s), listed below, is (are) satisfied.

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 ⩽ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] • [√f(GHz)] ⩽ 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 ⩽ 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.

 Description of EUT Portable

 Maximum measured transmitter power.

Frequency (MHz)	Peak Output Power (dBm)	Peak Output Power (mW)
2403.65	-0.332	0.926
2441.65	-0.472	0.897
2479.65	-0.692	0.853

Remark: The best case gain of the antenna is 2.03dBi.

2.03dBi logarithmic terms convert to numeric result is nearly 1.60

 The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ⩽ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance,mm)] • [√f(GHz)]

Frequency (MHz)	Range	tune up max power (dBm)	[(max. power of channel, including tune-up tolerance, mW)	(min. test separation distance,mm)]	[f(GHz)]	Result	Limit
2403.65	0~-2	0	1.000	5	2.40365	0.310	3
2441.65	0~-2	0	1.000	5	2.44165	0.313	3
2479.65	0~-2	0	1.000	5	2.47965	0.315	3

The test Result is less than 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR.

Conclusion: No SAR is required.