## RF exposure evaluation

§ 2.1093 Radiofrequency radiation exposure evaluation: Portable Devices.

According to § 15.247(i) and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the commission's guidance.

The 1-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)]  $\cdot [\sqrt{f(GHz)}] \le 3.0$  for 1-g 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
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.
- The result is rounded to one decimal place for comparison

Channel	Frequency (GHz)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)
CH 1	2.412	7.5±1.8	9.3	8.51
CH 3	2422	7.5±1.8	9.3	8.51
CH 6	2.437	7.5±1.8	9.3	8.51
CH 09	2452	6.7±1.8	8.5	7.08
CH 11	2.462	6.7±1.8	8.5	7.08

exclusion Max. Test Frequency thresholds Power Channel Power distance Result (GHz) (dBm) for 1-g (mW) (mm) SAR CH 1 2.412 9.13 8.18 5 2.54 3.0

## Result:

Base on the calculation value, No SAR measurement is required.