Analysis Report

The Equipment Under Test (EUT) is portable walkie-talkie which operates at 49.860MHz. The EUT is power by 4 x 1.5V AG13 batteries. After switching on the EUT and pressing and releasing the TALK button, the walkie-talkie can transmit and receive sound data to/ from another walkie-talkie respectively. By pressing the CODE button, it can transmit Morse code.

Antenna Type: External, Integral

Antenna Type: External antenna
Antenna Gain: 0dBi
Nominal rated field strength is 70.2 dBμV/m at 3m
Maximum allowed production tolerance: +/- 3dB

According to the KDB 447498:

Based on the Maximum allowed field strength of production tolerance was 73.2dBμV/m at 3m in frequency 0.04986GHz, thus;

The EIRP = [(FS*D) ^2*1000 / 30] = 0.006mW

Conducted power = Radiated Power (EIRP) – Antenna Gain
So;

Conducted Power =0.006mW.

The SAR Exclusion Threshold Level:
= 3.0 * (min. test separation distance, mm) / sqrt(freq. in GHz)
= 3.0 * 5 / sqrt (0.04986) mW
= 67.1762 mW

Since the above conducted output power is well below the SAR Exclusion threshold level, so the EUT is considered to comply with SAR requirement without testing.