

RF Exposure Technical Brief

for

Parsyl, Inc.

Logistics Tracker 'Trek'

FCC ID: 2AQ8LTREKA1

Technical data:

Bluetooth Low Energy

Operating Frequency Range 2402 - 2480 MHz

Maximum RF Output Power, conducted, peak: 2.4 dBm or 1.7 mW (*)

(*measured as documented in test report #31960604001 of TUV Rheinland of NA, filed with this application)

Maximum Antenna Gain: +0.37 dBi;

Operational conditions with regard to human exposure to RF: fix/mobile, >20cm distance from human body (further details see technical documentation filed with this application);

The purpose of this RF Exposure Technical Brief is to show that the above identified and described equipment is either excluded from RF exposure routine evaluation or meets the related limits as specified in FCC parts §2.1091, §1.1307, §1.1310.

FCC Compliance:

The Plane-wave equivalent Power Density limit according to table 1 in FCC part §1.1310 for a transmitter operating at 2400 MHz is 1 mW/cm²

The calculated Plane-wave equivalent Power Density with the above given max output power and gain, for 20 cm distance (d), is $(P \times G) / (4 \times \pi \times d^2) = 0.0004 \text{ mW/cm}^2$ (P x G is 1.9 mW)

The equipment is categorically excluded from routine environmental evaluation but is also clearly meeting the related power density limit specified in the given FCC rule parts.

For the Content:

Company, name, title: TUV Rheinland of North America, Inc., Donald Foster, Senior Test Engineer

Date: 2019-05-23

Signature: