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RF exposure analysis for the equipment Keyfob (FCC ID: 2AEIM-1048598)

1. Introduction

The device **Keyfob** (FCC ID: **2AEIM-1048598**) is part of the passive entry system to gain access and start the vehicle. It contains a 2.4GHz radio which operates in BlueTooth Low Energy mode (BTLE).

2. SAR limits

According to § 2.1093 (d) (2) the limits for General Population/Uncontrolled exposure: 0.08 W/kg as averaged over the whole-body and peak spatial-average SAR limit is 1.6 W/kg, averaged over any 1 gram of tissue over the whole body.

3. Compliance criteria:

Individual transmitters are deemed to comply with § 2.1093 requirements if the output power of the transmitter meets the conditions specified in section 4.3.1 (Standalone SAR test exclusion) considerations of the document "KDB 447498 D01 Clause 4.3.1 General RF Exposure Guidance v05r02".

4. Compliance calculations:

Mode	Frequency (GHz)	Maximum output power (dBm)	Peak output power (mW)	Evaluation distance per KDB 447498 D01 General RF Exposure Guidance v05r02 - 4.3.1 (mm)	[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [vf(GHz)]		SAR Test Exclusion Thresholds per KDB 447498 D01 General RF Exposure Guidance v05r02 - 4.3.1 - 1)
BLE	2,402	8,74	7,4817	5	2,3190841	≤ 3	COMPLIANT
	2,440	7,84	6,0814	5	1,8998745	≤ 3	COMPLIANT
	2,480	6,72	4,6989	5	1,4799800	≤ 3	COMPLIANT

Sincerely,

P.A.


Signed by: Sean Lui
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