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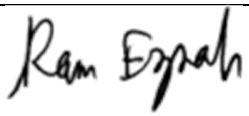
SAR Exclusion Evaluation Report

Applicant	AeroScout Inc.
Applicant Address	2 Ilan Ramon St., Science Park, Ness-Ziona 7403635, Israel
Product	Infant Protection System
FCC ID	Q3HTAGHGS1000B
IC	5115A-TAGHGS1000B
HVIN	
FVIN	
PMN	
Standard(s)	FCC Part 15, Subpart C RSS-247, Issue 3, August 2023 RSS-Gen, Issue 5, April 2018, Amendment 2 (February 2021)
Test Report No.	Ra301060.03

Prepared by:	Ram Ezrah	
Reviewed by:	Lior Tenenbaum	
Test Laboratory	I.T.L. Product Testing Ltd. 3 HaOreg Street, Modi'in 7177909, Israel	
Date:	5 February 2025	

1 EUT Information

Model No.	TAG-HGS-1000B
Power supply	Battery, 3.7V
Antenna type	Integral
Antenna gain	-1.0 dBi (max.)
Assigned frequency range	802.11b/g/n, BLE
Operating frequency range	802.11: 2412-2472MHz, BLE: 2402-2480MHz
Transmit power (conducted)	+21dBm
Modulation bandwidth	20MHz
Bit rate	802.11b: 1,2,5.5,11MBPS 802.11g: 6,9,12,18,24,36,48, 54MBPS 802.11n (MCS0-MCS7): 6.5,13,19.5, 26,39,52,58.5, 65MBPS BLE: 125kHz, 500kHz,1MHz, 2MHz
Test separation distance	5 mm
Evaluation Methods and Limits	FCC: KDB447498 D01 V06 ISED: RSS-102, Issue 5

1.1 SAR Exclusion Results

Frequency (MHz)	**Power Output (mW)**	**Antenna Gain (numeric)**	**Duty Cycle %**	**Maximum Power (mW)**	**Test Separation Distance (mm)**	**Exemption Limit (mW)**	**SAR Test Exclusion (Yes/No)**
2412	102.8	0.8	0.03	3.7	5	FCC: 10	Yes

1. Max. power (conducted): 20.12dBm=102.8mW
2. Antenna Gain: -1.0 dBi=0.8 numeric
3. Duty cycle factor: 10log(0.03)=-15.2dB (see customer's declaration on following page)
4. E.I.R.P.: 20.12+0.8-15.2=5.7dBm=3.7mW
5. Distance from human body: 5mm=0.005m
6. [(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] * [√f(GHz)]
    a) √2.4=1.55
    b) 3.7/5*1.55=1.1

2 Conclusion

The SAR exclusion threshold has been evaluated using the method described above from information supplied by the manufacturer. Based on the evaluation above, the EUT is excluded from SAR testing.

AeroScout®

Date: 5/2/2025

SAR Declaration

TAG-HGS-1000B
Maximum Tx Duty cycle: **0.03%**
Distance from body: 3mm

Signature: _____

Printed Name: Dadi Matza
Title: HW Manager

End of Report