

FCC RF EXPOSURE REPORT

For

Cable-free, Radio-free, Autonomous Data Recorder

MODEL NUMBER: GSX-3

FCC ID: WAOGSXLC

IC: 7733A-GSXLC

REPORT NUMBER: 4788200403.1-4

ISSUE DATE: May 3, 2018

Prepared for Geospace Technologies Inc. 7007 Pinemont Houston, TX 77040.USA

Prepared by

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The results reported herein have been performed in accordance with the laboratory's terms of accreditation. This report shall not be reproduced except in full without the written approval of the Laboratory. The results in this report apply to the test sample(s) mentioned above at the time of the testing period only and are not to be used to indicate applicability to other similar products. This report does not imply that the product(s) has met the criteria for certification.

Revision History

Rev.	Issue Date	Revisions	Revised By
	05/03/2018	Initial Issue	

Page 2 of 7



TABLE OF CONTENTS

4.	REQUIREMENT	.6
3.	FACILITIES AND ACCREDITATION	.5
2.	TEST METHODOLOGY	.5
1.	ATTESTATION OF TEST RESULTS	.4

Page 3 of 7



1. ATTESTATION OF TEST RESULTS

Applicant Information Company Name: Address:	Geospace Technologies Inc. 7007 Pinemont Houston, TX 77040.USA
Manufacturer Information Company Name:	Geospace Technologies Inc.
Address:	7007 Pinemont Houston, TX 77040.USA
EUT Description	
EUT Name:	Cable-free, Radio-free, Autonomous Data Recorder
Model:	GSX-3
Brand Name:	/
Sample Status:	Normal
Sample ID:	1230384
Sample Received Date:	October 26, 2017
Date of Tested:	November 15, 2017 ~ May 02, 2018

APPLICABLE STANDARDS

STANDARD

TEST RESULTS

FCC 47CFR§2.1091

Complies

Tested By:

Buch

Checked By:

Sherry les

Shawn Wen Laboratory Leader

Denny Huang Engineer Project Associate

Approved By:

Sephenbur

Stephen Guo Laboratory Manager

Page 4 of 7



2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091.

3. FACILITIES AND ACCREDITATION

	A2LA (Certificate No.: 4102.01)			
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.			
	has been assessed and proved to be in compliance with A2LA.			
	IAS (Lab Code: TL-702)			
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.			
	has demonstrated compliance with ISO/IEC Standard 17025:2005,			
	General requirements for the competence of testing and calibration			
	laboratories			
	FCC (FCC Designation No.: CN1187)			
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.			
	Has been recognized to perform compliance testing on equipment subject			
Accreditation	to the Commission's Delcaration of Conformity (DoC) and Certification			
Certificate	rules			
Continioato	IC(Company No.: 21320)			
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.			
	has been registered and fully described in a report filed with			
	Industry Canada. The Company Number is 21320.			
	VCCI (Registration No.: G-20019, R-20004, C-20012 and T-20011)			
	UL Verification Services (Guangzhou) Co., Ltd. Song Shan Lake Branch.			
	has been assessed and proved to be in compliance with VCCI, the			
	Membership No. is 3793.			
	Facility Name:			
	,			
	Chamber D, the VCCI registration No. is G-20019 and R-20004			
	Shielding Room B, the VCCI registration No. is C-20012 and T-20011			

Page 5 of 7



4. REQUIREMENT

LIMIT AND CALCULATION METHOD

Systems operating under the provisions of FCC 47 CFR 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 guidelines.

In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as mobile device whereby a distance of 0.2m normally can be maintained between the user and the device, and below RF Permissible Exposure limit shall comply with.

Limits for General Population/Uncontrolled Exposure

Frequency Range (MHz)	E-field Strength (E) (V/m)	Magnetic Field Strength (H) (A/m)	Power Density (S) (mW/cm²)	Averaging Time E ² , H ² or S (Minutes)
0.3 1.34	614	1.63	(100)*	30
1.34 30	824/f	2.19/f	(180/f ²)*	30
30 300	27.5	0.073	0.2	30
300 1500			f/1500	30
1500 100,000			1.0	30

RF EXPOSURE LIMIT

CALCULATION METHOD

S=PG/4πR² Where: S=power density P=power input to antenna G=power gain of the antenna in the direction of interest relative to an isotropic radiator R=distance to the center of radiation of the antenna

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Page 6 of 7



CALCULATED RESULTS

ZigBee Mode					
Frequency	Output Power	Output Power	Power Density	Limit	Test Result
MHz	dBm	mW	mW/cm ²	mW/cm ²	
2405~2475	2	1.58	0.001	1.0	Complies

Note: 1. Antenna Gain=3.3.0dBi (Numeric 2.14), π=3.141.

2. The Power comes from turn up power which declared by customer.

3. The minimum separation distance of the device is greater than 20 cm.

4. Calculate by WORST-CASE mode.

END OF REPORT

Page 7 of 7

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