Celltech	Date(s) of Evaluation May 30-Jun7, 2013	<u>Test Report Serial No.</u> 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Testing and Engineering Services Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

DECLARATION OF COMP	LIANCE	SA	R RF EX	POSU	IRE	EVAL	UATIC	N	F	FCC & IC
Test Lab Information	Name	CELLT	ECH LABS	INC.						
	Address	21-364	Lougheed I	Road, Ko	elow	na, B.C. V	'1X 7R8	Canada	a	
Test Lab Accreditation(s)	ISO 17025	A2LA T	est Lab Ce	tificate I	No. 2	470.01				
Applicant Information	Name	HARRIS CORPORATION								
Applicant Information	Address	221 Jefferson Ridge Parkway, Lynchburg, VA 24501 U.S.A.								
Standard(a) Applied	FCC	47 CFF	R §2.1093							
Standard(s) Applied	IC	Health	Canada Sat	ety Cod	e 6					
Presedure(s) Applied	FCC	OET B	ulletin 65, S	upp. C	KD	B 447498	D01v05	5 KDB	64364	6 D01v01r01
Procedure(s) Applied	IC	RSS-10	02 Issue 4	IEEE		1528-200	3	IEC	62	209-2:2010
	FCC	License	ed Non-Broa	dcast T	rans	mitter Hel	d to Fac	e (TNF)	- FCC	Part 90
Device Classification(s)	IC	Land N	lobile Radio	Transm	itter/	Receiver	(27.41-9	60 MHz	z) - RSS	S-119
Device Identifier(s)	FCC ID:	: OWDTR-0141-E IC: 3636B-0141								
Date of Sample Receipt	May 28, 2013	ay 28, 2013								
Dates of Evaluation	May 30, 31, Jui	lay 30, 31, June 3, 4 ,5 ,6 & 7, 2013								
Device Description	Portable UHF E	and Dig	ital Push-To	-Talk (P	TT)	Radio Tra	nsceive	r with Bl	uetooth	ı
Device Name / Model(s)	XG-25P UHF-L System Model:DP			YXG-PF	U1B	-e1	P/N: 14	011-00	30-01	DTMF Keypad
Device Marile / Model(S)	XG-25P UHF-L	Scan	Model:DF	YG-PBU1B-e1		-e1	P/N: 14011-00		30-02	Limited Keypad
Test Sample Serial No.(s)	XG-25P System	n - S/N: 2	25 (identical	prototy	be)	XG-25P	Scan -	S/N: 50	(identic	al prototype)
Test Sample Revision No.s	Hardware	n/a				Firmwa	are P	02A10		
Transmit Frequency Range(s)	FCC	406.1 -	- 470.0 MHz							
Transmit Trequency Trange(s)	IC	406.1 -	- 430.0; 450	0 – 470	.0 M	Hz				
Manufacturer's Rated Output Power	5.0 W (5.3 W m	iax.)								
Co-located Transmitter(s)	Bluetooth (Clas	s 2) 🤇	Output Pow	er: 1.0 m	۱W			Freq.	Range:	2402-2480 MHz
Antenna Type(s) Tested	See manufactu	rer's acc	essory listin	g (Secti	on 5.	.0)				
Battery Type(s) Tested	See manufactu	rer's acc	essory listin	g (Secti	on 5.	.0)				
Body-worn Accessories Tested	See manufactu	rer's acc	essory listin	g (Secti	on 5.	.0)				
Audio Accessories Tested	See manufactu	rer's acc	essory listin	g (Secti	on 5.	.0)				
	Head (FCC)	1.94	W/kg 1g	50%	PTT	duty facto	or Oco	cupation	al / Co	ntrolled Exposure
Max. SAR Level(s) Evaluated	Head (IC)	2.10	<b>W/kg</b> 1g	50%	PTT	duty facto	or Oco	upation	al / Co	ntrolled Exposure
	Body-worn	5.13	<b>W/kg</b> 1g	50%	PTT	duty facto	or Oco	upation	al / Co	ntrolled Exposure
FCC/IC Spatial Peak SAR Limit	Head/Body	8.0	W/kg 1g	50%	PTT	duty facto	or Oco	cupation	al / Co	ntrolled Exposure

Celltech Labs Inc. declares under its sole responsibility that this wireless portable device has demonstrated compliance with the Specific Absorption Rate (SAR) RF exposure requirements specified in FCC 47 CFR §2.1093 and Health Canada Safety Code 6 for the Occupational / Controlled Exposure environment. The device was tested in accordance with the measurement procedures specified in FCC 0ET Bulletin 65, Supplement C (Edition 01-01), Industry Canada RSS-102 Issue 5, IEEE Standard 1528-2013 and IEC International Standard 62209-2:2010. All measurements were performed in accordance with the SAR system manufacturer recommendations.

I attest to the accuracy of data. All measurements were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them.

This test report shall not be reproduced partially, or in full, without the prior written approval of Celltech Labs Inc.

The results and statements contained in this report pertain only to the device(s) evaluated.

 Test Report Approved By
 Art Voss
 Lab Manager
 Celltech Labs Inc.

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	ime:	XG-25P UHF-L	
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	Date(s) of Evaluation May 30-Jun7, 2013	Test Report Serial No. 45461369 R1.0	Test Report Revision No. Rev. 1.1	
h	Test Report Issue Date	Description of Test(s)	<u>RF Exposure Category</u>	Test Lab Certificate No. 2470.01
Xes Lab	20 October 2016	Specific Absorption Rate	Occupational (Controlled)	

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Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	ortable UHF Band PTT Radio Transceiver with Bluetooth DUT Name: XG-25P UHF-L						
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Celltech	Date(s) of Evaluation May 30-Jun7, 2013	<u>Test Report Serial No.</u> 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Testing and Engineering Services Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

	REVISION HISTORY									
<b>REVISION NO.</b>	DESCR	IPTION	IN	IPLEMENTED BY	RELEASE DATE					
1.0	1st Release			Art Voss	18 October 2016					
1.1	Revised to add KRE 1011219/9 Ant.			Art Voss	20 October 2016					
TEST REPORT SIGN-OFF										
<b>REVISION NO</b>	DEVICE TESTED BY	REPORT PREPARED BY		QA REVIEW BY	REPORT APPROVED BY					
1.0	See Section 1.0	Art Voss		Ben Hewson	Art Voss					

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	T Name: XG-25P UHF-L		
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	Date(s) of Evaluation May 30-Jun7, 2013	Test Report Serial No. 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Testing and Engineering Services Lab	Test Report Issue Date	Description of Test(s)	RF Exposure Category	ACCREDITED
	20 October 2016	Specific Absorption Rate	Occupational (Controlled)	Test Lab Certificate No. 2470.01

#### **1.0 INTRODUCTION**

This measurement report demonstrates that the HARRIS Corporation XG-25P UHF-L Portable PTT Radio Transceiver with Bluetooth complies with the SAR (Specific Absorption Rate) RF exposure requirements specified in FCC 47 CFR §2.1093 (see reference [1]) and Health Canada's Safety Code 6 (see reference [2]) for the Occupational / Controlled Exposure environment. The measurement procedures described in FCC OET Bulletin 65, Supplement C 01-01 (see reference [3]), IC RSS-102 Issue 4 (see reference [4]), IEEE Standard 1528-2003 (see reference [5]) and IEC 62209-2:2010 (see reference [6]) were employed. A description of the device, operating configuration, detailed summary of the test results, methodology and procedures used in the evaluation, equipment used and the various provisions of the rules are included within this test report.

I have reviewed the changes proposed for this new filing and have determined that these changes will not impact the SAR magnitude or distribution indicated on the original report S/N 0528130WD-1235SAR, Revision 1.0 for the original FCC ID: OWDTR-0109-E. The replacement Blue-Tooth module exhibits a lower output power than the original device and is in the same physical location. This report reflects test data and measurement procedures dated June 2013. Although there have been newer releases of the test standards, I have reviewed those changes and revisions in the standards and have determined that they would not impact the measurement procedures undertaken or the SAR results as originally reported during the initial evaluation. As such, the latest releases of those standards have been cited in this report. Additionally, SAR was evaluated on this device on October 14<sup>th</sup>, 2016 to the worst case configuration for the addition of the GPS module. The measured SAR was less than the highest reported SAR indicated in this report.

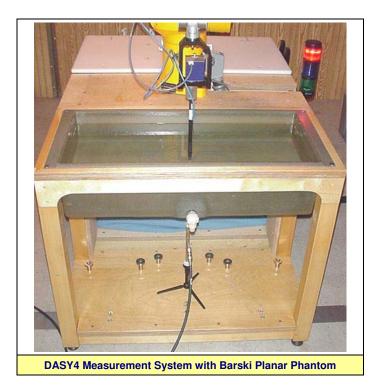
I attest that the data reported herein is true and accurate within the tolerance of the Measurement Instrument Uncertainty; that all tests and measurements were performed in accordance with accepted practices or procedures. The results of this investigation are based solely on the test sample(s) provided by the client which were not adjusted, modified or altered in any manner whatsoever, except as required to carry out specific tests or measurements. This test report has been completed in accordance with ISO/IEC 17025.	Art Voss, P.Eng. Technical Manager Celltech Labs Inc. 18 October 2016 Date	A.F.VOSS # 31327 Contraction Manual Contraction A.F.VOSS # 31327 Contraction C
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Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	ime:	XG-25P UHF-L	
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Celltech	Date(s) of Evaluation May 30-Jun7, 2013	Test Report Serial No. 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Testing and Engineering Services Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

## 2.0 SAR MEASUREMENT SYSTEM

Celltech Labs Inc. SAR measurement facility utilizes the Dosimetric Assessment System (DASY™) manufactured by Schmid & Partner Engineering AG (SPEAG™) of Zurich, Switzerland. The DASY4 measurement system is comprised of the measurement server, robot controller, computer, near-field probe, probe alignment sensor, specific anthropomorphic mannequin (SAM) phantom, and various planar phantoms for head and/or body SAR evaluations. The robot is a six-axis industrial robot performing precise movements to position the probe to the location (points) of maximum electromagnetic field (EMF). A cell controller system contains the power supply, robot controller, teach pendant (Joystick), and remote control, is used to drive the robot motors. The Staubli robot is connected to the cell controller to allow software manipulation of the robot. A data acquisition electronic (DAE) circuit performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. is connected to the Electrooptical coupler (EOC). The EOC performs the conversion from the optical into digital electric signal of the DAE and transfers data to the DASY4 measurement server. The DAE4 utilizes a highly sensitive electrometer-grade preamplifier with auto-zeroing, a channel and gain-switching multiplexer, a fast 16-bit AD-converter and a command decoder and control logic unit. Transmission to the DASY4 measurement server is accomplished through an optical downlink for data and status information and an optical uplink for commands and clock lines. The mechanical probe-mounting device includes two different sensor systems for frontal and sidewise probe contacts. The sensor systems are also used for mechanical surface detection and probe collision detection. The robot uses a controller with a built in VME-bus computer.



Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	rtable UHF Band PTT Radio Transceiver with Bluetooth DUT Name: XG-25P UHF-L						
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Category Accase	Celltech	Date(s) of Evaluation May 30-Jun7, 2013	Test Report Serial No. 45461369 R1.0	Test Report Revision No. Rev. 1.1		
20 October 2010 One (Fe Absention Date October (October 1, 1)	Testing and Engineering Services Lab	Test Report Issue Date	<u> </u>		Test Lab Certificate No. 2470.01	

## 3.0 RF CONDUCTED OUTPUT POWER MEASUREMENTS

Toot Eron	Mode System Radio Scan Radio		Mathad			
Test Freq.	Mode	Watts	dBm	Watts	dBm	Method
388		5.25	37.2	5.20	37.2	
408	CW	5.06	37.0	5.17	37.1	
418		5.01	37.0	5.07	37.1	1
428		5.01	37.0	5.09	37.1	
443		4.80	36.8	4.92	36.9	Average Conducte
458		4.93	36.9	4.97	37.0	1
470		5.14	37.1	5.20	37.2	

#### Notes

1. The test channels were selected in accordance with the procedures specified in FCC KDB 447498 (see reference [8]).

2. The RF conducted output power levels of the DUT were measured by Celltech Labs prior to the SAR evaluations using a Gigatronics 8652A Universal Power Meter at the external antenna connector of the radio in accordance with requirements of FCC 47 CFR §2.1046 (see reference [13]) and IC RSS-Gen (see reference [14]).

## 4.0 NO. OF TEST CHANNELS (*N<sub>c</sub>*)

A	Intenna Part No.	Antenna Type	Antenna Freq. Range	Nc	Test Frequencies (MHz)				
1	KRE 101 1219/10	Helical Stub	403 - 430 MHz	3	408, 418, 428				
2	KRE 101 1219/12	Helical Stub	440 - 470 MHz	3	443, 458, 470				
3	KRE 101 1223/10	Helical Stub	378 - 430 MHz	3	408, 418, 428				
4	KRE 101 1223/12	Helical Stub	440 - 470 MHz	3	443, 458, 470				
5         KRE 101 1219/9         Helical Stub         378 – 403 MHz         1         388									
	Note: The number of test channels ( <i>Nc</i> ) were calculated in accordance with the procedures specified in FCC KDB 447498 (see reference [8]).								

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	<b>Radio Trans</b>	ceiver with Bluetooth	Bluetooth DUT Name: XG-25P UHF-L			
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Centrecon Test Report Issue Date Description of Test(s) RF Exposure Category		Date(s) of Evaluation May 30-Jun7, 2013	Test Report Serial No. 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Testing and Engineering Services Lab	Testing and Engineering Services Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

## 5.0 MANUFACTURER'S DISCLOSED ACCESSORY LISTING

Accessory ID #	ACCESSORY CATEGO	RY: ANTENNA						
for Test Report	Part Number	Description	SAR Evaluation					
1	KRE 101 1219/10	Helical Stub (403-430 MHz)	Yes					
2	KRE 101 1219/12	Helical Stub (440-470 MHz)	Yes					
3	KRE 101 1223/10	1/4-wave Whip (378-430 MHz)	Yes					
4	KRE 101 1223/12	1/4-wave Whip (440-470 MHz)	Yes					
5	KRE 101 1219/9	Helical Stub (378-403 MHz)	Yes					
Accessory ID #	ACCESSORY CATEGO	RY: BATTERY						
for Test Report	Part Number Description							
а	BT-023406-003	Ni-MH, immersible, non-IS, 7.5V, 2400mAh	Yes					
b	BT-023406-004	Ni-MH, immersible, <is> (7.5V, 2400mAh)</is>	Yes					
С	BT-023406-005	Li-ion, immersible, non-IS (7.4V, 2000mAh)	Yes					
d BT-023436-001 Lithium-polymer, immersible, non-IS (7.4V, 3000mAh)								
Accessory ID #	ACCESSORY CATEGO	CESSORY CATEGORY: BODY-WORN						
for Test Report	Part Number	Description	SAR Evaluation					
1	14011-0012-01	Kit containing: 14011-0011-01 BEE Nylon case (Black) (with radio retaining strap) & CC-014527 BEE Leather Belt Loop	Yes					
2	14011-0012-02	Kit containing: 14011-0011-02 BEE Nylon case (Orange) (with radio retaining strap) & CC-014527 BEE Leather Belt Loop	No <sup>1</sup>					
3	14011-0012-03	Kit contains: 14011-0011-03 BEE Leather Case (with radio retaining strap) w/o Shoulder Strap D-rings, FM-017262-001 Swivel Mount & CC-014527 BEE Leather Belt Loop	Yes					
4	14011-0012-04	Kit contains: 14011-0011-04 BEE Leather Case with Shoulder Strap D-rings (with radio retaining strap), FM-017262-001 Swivel Mount & CC-014524-001 BEE Shoulder Strap	Yes					
5	CC23894	Metal Belt Clip (Standard)	Yes					
6	FM-017262-001 CC-014527	Swivel Mount Belt Loop, Leather (BEE)	Yes					
7	CC-014524-002     [BEE] Short Leather Retaining Strap (For use with shoulder strap application)							
8	KRY1011609/1Merzon belt loopFM-017262-001D-swivel							
9	14011-0011-01 KRY1011609/1	· · · · · · · · · · · · · · · · · · ·						
10	14011-0011-02 KRY1011609/1	BEE Orange nylon case Merzon belt loop	No <sup>3</sup>					
11	14011-0011-03 BEE leather case							

Note:

The orange nylon case differs only in color from the black nylon case and therefore was not tested.
 The Short retaining strap has no impact on SAR compared to the regular long strap and therefore was not tested.
 The alternate Merzon Belt-loop is similar in construction to the standard belt-loop, therefore it was not tested.

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	Portable UHF Band PTT Radio Transceiver with Bluetooth DUT Name: XG-25P UHF-L						
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Testing and Engineering Services Lab	Test Report Issue Date	Description of Test(s)	RF Exposure Category	ACCREDITED
	20 October 2016	Specific Absorption Rate	Occupational (Controlled)	Test Lab Certificate No. 2470.01

Accessory ID #	ACCESSORY CA	TEGORY: AUDIO		
for Test Report	Part Number	Description	Audio Accessory Grouping	SAR Evaluation
G1a	EA-009580-001	Earphone Kit, Black	1	Yes
G1b	EA-009580-002	Earphone Kit, Beige	1	No <sup>1</sup>
G2a	EA-009580-003	2-Wire Kit, Palm mic, Black	2	Yes
G2b	EA-009580-004	2-Wire Kit, Palm mic, Beige	2	No <sup>1</sup>
G3a	EA-009580-005	3-Wire Kit, Mini-Lapel Mic, Black	- 3	Yes
G3b	EA-009580-006	3-Wire Kit, Mini-Lapel Mic, Beige	3	No <sup>1</sup>
G4a	EA-009580-007	Explorer Headset w/ PTT		No
G4b	EA-009580-008	Lightweight headset single spkr w/ PTT		No
G4c	EA-009580-009	Breeze Headset w/ PTT		No
G4d	EA-009580-011	Ranger Headset w/ PTT	4	Yes
G4e	EA-009580-016	Breeze headset w/ PTT & pigtail jack		No
G4f	EA-009580-017	Hurricane headset w/ PTT		No
G4g	EA-009580-018	Hurricane headset w/ PTT & pigtail jack		No
G5	EA-009580-012	Skull mic w/body PTT & earcup	5	Yes
G6a	EA-009580-010	Headset, heavy duty, N/C behind the head, w/ PTT	- 6	Yes
G6b	EA-009580-013	Headset, heavy duty, N/C over the head, w/ PTT	0	No
G7a	EA-009580-014	Throat mic w/acoustic tube & body PTT	7	Yes
G7b	EA-009580-015	Throat mic w/acoustic tube, body PTT, & ring PTT	1	No
G8a	MC-023933-001	Speaker-Mic No Ant. (cc), <is></is>		Yes
G8b	MC-009104-002	Speaker-Mic GPS, non-IS		No
G8c	MC-011617-601	Speaker-Mic Ruggedized Coil Cord	8	No
G8d	MC-011617-611	Speaker-Mic Ruggedized Coil Cord, P7300, Hirose	]	No
G8e	MC-011617-701	Speaker-Mic Standard - Non Ant		No
	LS103239V1	Earphone for Speaker-mic	n/a	No <sup>2</sup>
	FM-014712	UDC Weatherproof Cover	n/a	No <sup>2</sup>

Note:

The Beige versions differ only in color from the black and therefore were not tested.
 The Earphone and Weatherproof cover are not tested as they have no impact on SAR.

Manufacturer's disclosed accessory listing information provided by HARRIS Corporation. \*All audio accessories can be used with any body worn and antenna combination.

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Name: XG-25P UHF-L			
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# 6.0 FLUID DIELECTRIC PARAMETERS

	FLU		ECTRIC	PARAME	ETERS	
Date: May	30, 2013	Free	quency: 450 l	MHz	Tissu	e: Head
Freq	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity
0.350	48.58	0.8	43.5	0.87	11.68%	-8.05%
0.360	47.91	0.82	43.5	0.87	10.14%	-5.75%
0.370	47.1	0.82	43.5	0.87	8.28%	-5.75%
0.380	46.98	0.83	43.5	0.87	8.00%	-4.60%
0.390	47.05	0.81	43.5	0.87	8.16%	-6.90%
0.400	46.66	0.84	43.5	0.87	7.26%	-3.45%
0.410	46.68	0.83	43.5	0.87	7.31%	-4.60%
0.420	45.87	0.85	43.5	0.87	5.45%	-2.30%
0.430	46.32	0.86	43.5	0.87	6.48%	-1.15%
0.440	45.65	0.87	43.5	0.87	4.94%	0.00%
0.450	45.49	0.88	43.5	0.87	4.57%	1.15%
0.460	44.92	0.87	43.5	0.87	3.26%	0.00%
0.470	45.47	0.91	43.5	0.87	4.53%	4.60%
0.480	45.09	0.91	43.5	0.87	3.66%	4.60%
0.490	44.75	0.91	43.5	0.87	2.87%	4.60%
0.500	44.51	0.91	43.5	0.87	2.32%	4.60%
0.510	44.25	0.93	43.5	0.87	1.72%	6.90%
0.520	43.98	0.93	43.5	0.87	1.10%	6.90%
0.530	43.61	0.96	43.5	0.87	0.25%	10.34%
0.540	44.06	0.96	43.5	0.87	1.29%	10.34%
0.550	43.4	0.98	43.5	0.87	-0.23%	12.64%

Test Date	Fluid Type	Ambient Temperature	Fluid Temperature	Fluid Depth	Atmospheric Pressure	Relative Humidity	ρ <b>(Kg</b> /m <sup>3</sup> )
May 30	450 Head	23°C	21.0°C	$\geq$ 15 cm	101.5 kPa	32%	1000

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Name: XG-25P UHF-L			
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	<u>Date(s) of Evaluation</u> May 30-Jun7, 2013	<u>Test Report Serial No.</u> 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

	FLU		ECTRIC	PARAME	TERS	
Date: May	31, 2013	Free	quency: 450 l	MHz	Tissu	ie: Head
Freq	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity
0.350	47.95	0.79	43.5	0.87	10.23%	-9.20%
0.360	47.01	0.79	43.5	0.87	8.07%	-9.20%
0.370	46.59	0.8	43.5	0.87	7.10%	-8.05%
0.380	45.81	0.81	43.5	0.87	5.31%	-6.90%
0.390	45.85	0.82	43.5	0.87	5.40%	-5.75%
0.400	45.31	0.82	43.5	0.87	4.16%	-5.75%
0.408*	45.7	0.836	43.5	0.87	5.06%	-3.91%
0.410	45.6	0.84	43.5	0.87	4.83%	-3.45%
0.420	45.95	0.83	43.5	0.87	5.63%	-4.60%
0.430	45.43	0.85	43.5	0.87	4.44%	-2.30%
0.440	45.35	0.86	43.5	0.87	4.25%	-1.15%
0.450	44.63	0.88	43.5	0.87	2.60%	1.15%
0.460	44.79	0.88	43.5	0.87	2.97%	1.15%
0.470	44.73	0.89	43.5	0.87	2.83%	2.30%
0.480	44.44	0.9	43.5	0.87	2.16%	3.45%
0.490	43.87	0.9	43.5	0.87	0.85%	3.45%
0.500	44.16	0.91	43.5	0.87	1.52%	4.60%
0.510	43.28	0.91	43.5	0.87	-0.51%	4.60%
0.520	43.24	0.94	43.5	0.87	-0.60%	8.05%
0.530	43.33	0.94	43.5	0.87	-0.39%	8.05%
0.540	43.1	0.95	43.5	0.87	-0.92%	9.20%
0.550	43.15	0.96	43.5	0.87	-0.80%	10.34%

#### \*interpolated using DASY4 software

Test Date	Fluid Type	Ambient Temperature	Fluid Temperature	Fluid Depth	Atmospheric Pressure	Relative Humidity	ρ <b>(Kg/m<sup>3</sup>)</b>
May 31	450 Head	22°C	22.0°C	≥ 15 cm	102.5 kPa	32%	1000

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Name: XG-25P UHF-L			
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	Date(s) of Evaluation May 30-Jun7, 2013	Test Report Serial No. 45461369 R1.0	Test Report Revision No. Rev. 1.1	
s Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

	FLU	JID DIEL	ECTRIC	PARAME	ETERS	
Date: Jun 3,	4, 5, 2013	Free	quency: 450	MHz	Tissu	e: Body
Freq	Test_e	Test s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity
0.350	59.25	0.89	56.7	0.94	4.50%	-5.32%
0.360	59.37	0.86	56.7	0.94	4.71%	-8.51%
0.370	58.66	0.88	56.7	0.94	3.46%	-6.38%
0.380	59.52	0.88	56.7	0.94	4.97%	-6.38%
0.390	58.45	0.9	56.7	0.94	3.09%	-4.26%
0.400	57.68	0.9	56.7	0.94	1.73%	-4.26%
0.408*	58.2	0.908	56.7	0.94	2.65%	-3.40%
0.410	58.29	0.91	56.7	0.94	2.80%	-3.19%
0.420	58.11	0.92	56.7	0.94	2.49%	-2.13%
0.430	58.14	0.93	56.7	0.94	2.54%	-1.06%
0.440	57.79	0.94	56.7	0.94	1.92%	0.00%
0.443*	57.7	0.94	56.7	0.94	1.76%	0.00%
0.450	57.37	0.94	56.7	0.94	1.18%	0.00%
0.458*	57.4	0.956	56.7	0.94	1.23%	1.70%
0.460	57.46	0.96	56.7	0.94	1.34%	2.13%
0.470	56.92	0.95	56.7	0.94	0.39%	1.06%
0.480	56.84	0.97	56.7	0.94	0.25%	3.19%
0.490	56.86	0.97	56.7	0.94	0.28%	3.19%
0.500	56.86	0.99	56.7	0.94	0.28%	5.32%
0.510	56.45	0.98	56.7	0.94	-0.44%	4.26%
0.520	56.3	0.99	56.7	0.94	-0.71%	5.32%
0.530	56.34	1.02	56.7	0.94	-0.63%	8.51%
0.540	56.31	1.02	56.7	0.94	-0.69%	8.51%
0.550	56.17	1.05	56.7	0.94	-0.93%	11.70%

\*interpolated using DASY4 software

Test Date	Fluid Type	Ambient Temperature	Fluid Temperature	Fluid Depth	Atmospheric Pressure	Relative Humidity	ρ (Kg/m³)
June 3	450 Body	22°C	21.8°C	≥ 15 cm	101.7 kPa	36%	1000
June 4	450 Body	23°C	21.8°C	≥ 15 cm	102.1 kPa	36%	1000
June 5	450 Body	23°C	21.8°C	≥ 15 cm	102.1 kPa	36%	1000

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	ime:		
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	<u>Date(s) of Evaluation</u> May 30-Jun7, 2013	<u>Test Report Serial No.</u> 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

	FLUID DIELECTRIC PARAMETERS													
Date: Jun 6	& 7, 2013	Free	quency: 450	MHz	Tissu	e: Body								
Freq	Test_e	Test_s	Target_e	Target_s	Deviation Permittivity	Deviation Conductivity								
0.350	59.17	0.85	56.7	0.94	4.36%	-9.57%								
0.360	58.2	0.84	56.7	0.94	2.65%	-10.64%								
0.370	57.78	0.88	56.7	0.94	1.90%	-6.38%								
0.380	57.65	0.88	56.7	0.94	1.68%	-6.38%								
0.390	57.39	0.86	56.7	0.94	1.22%	-8.51%								
0.400	57.31	0.9	56.7	0.94	1.08%	-4.26%								
0.408*	57.6	0.9	56.7	0.94	1.59%	-4.26%								
0.410	57.73	0.9	56.7	0.94	1.82%	-4.26%								
0.420	57.37	0.92	56.7	0.94	1.18%	-2.13%								
0.430	57.44	0.9	56.7	0.94	1.31%	-4.26%								
0.440	56.11	0.9	56.7	0.94	-1.04%	-4.26%								
0.443*	56.2	0.909	56.7	0.94	-0.88%	-3.30%								
0.450	56.46	0.93	56.7	0.94	-0.42%	-1.06%								
0.460	56.64	0.93	56.7	0.94	-0.11%	-1.06%								
0.470	56.92	0.94	56.7	0.94	0.39%	0.00%								
0.480	56.67	0.94	56.7	0.94	-0.05%	0.00%								
0.490	55.87	0.98	56.7	0.94	-1.46%	4.26%								
0.500	55.91	0.97	56.7	0.94	-1.39%	3.19%								
0.510	55.63	0.97	56.7	0.94	-1.89%	3.19%								
0.520	55.23	0.99	56.7	0.94	-2.59%	5.32%								
0.530	55.97	1	56.7	0.94	-1.29%	6.38%								
0.540	55.64	1	56.7	0.94	-1.87%	6.38%								
0.550	55.34	1.01	56.7	0.94	-2.40%	7.45%								

#### \*interpolated using DASY4 software

Test Date	Fluid Type	Ambient Temperature	Fluid Temperature	Fluid Depth	Atmospheric Pressure	Relative Humidity	ρ <b>(Kg/m<sup>3</sup>)</b>
June 6	450 Body	22°C	21.9°C	≥ 15 cm	101.3 kPa	31%	1000
June 7	450 Body	22°C	21.9°C	≥ 15 cm	101.3 kPa	31%	1000

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS		
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	ime:				
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Celltech	Date(s) of Evaluation May 30-Jun7, 2013	<u>Test Report Serial No.</u> 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Testing and Engineering Services Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

## 7.0 SAR MEASUREMENT SUMMARY

TA	BLE 1			FAC	CE-HEL	D SA	R E	/ALU	ATION	RESULT	S					
	Dev	vice-Und	ler-Test	XG-2	25P UHF-	L Radi	io Tra	nsceive	er (Syste	em)						
		Test	Date(s)	May	31, 2012											
С					1	2	2		3	4		5	6		7	8
			Cond.		SAR W/k				SAR W/k			SAR W/k		SAR W/kg 1g		
в	Antenna Accessory	Test Freg.	Power Before		ttery a (Ad	i i			ery b (Ad			tery c (Ad			attery d (I	í í
	ID#	(MHz)	Test		% ptt d/f	50% p			⊳ptt d/f	50% ptt d/f		6 ptt d/f	50% ptt d/f	100% ptt d/f		50% ptt d/f
			(W)	Dr	ift (dB)	50%+0	droop	Dri	ft dB	50%+droop	Dr	ift dB	50%+droop			50%+droop
1		408	5.06		N/A				N/A		N/A			F1	3.01	1.51
2	1														-0.307	1.62
3	(219/10)	418	5.01		N/A				N/A			N/A			N/A	
4	. ,	428	5.01	N/A					N/A			N/A			N/A	
5		420	5.01		IN/A				N/A			N/A			IN/A	
6		443	4.80	N/A					N/A			N/A				
7	2	458	4.93	N/A					N/A		N/A				N/A	
8	(219/12)	470	5.14	F5	3.79	1.9	90	F6	3.76	1.88	F7	3.74	1.87	F2	3.63	1.82
9		470	5.14	гэ	-0.342	2.0	)5	FO	-0.276	2.00	F7	-0.450	2.07	ΓZ	-0.339	1.96
10		408	5.06		N/A			N/A			N/A			F3	2.62	1.31
11	3	400	0.00		11/7				11/7					15	1.35	
12	(223/10)	418	5.01		N/A				N/A		N/A			N/A		
13		428	5.01		N/A				N/A			N/A			N/A	
14		443	4.80		N/A				N/A			N/A			N/A	
15	4	458	4.93		N/A				N/A			N/A			N/A	
<b>16</b>	(223/12)	470	5.14		N/A				N/A			N/A		F4	3.26	1.63
17			0.11		1071							1071			-0.190	1.70
			R LIMITS					HEAI		SPA	FIAL PE	AK			RE CATE	
	C 47 CFR 2.1	093	Health Ca	anada	Safety Coo	de 6		8.0 W/	kg	1 gra	m avera	age	Occ	upatior	nal / Contr	olled
	Notes C = Column; R = Row						Ex (	F = Face)	denotes the	corresp	onding Fa	ce SAR Plot	# as sh	own in Apr	endix A	
	Mode = CW (		ated Contir	nuous V	Vave)			```	,	irski Planar F		0		40 511		
	ront of DUT D				,	pendix	(D)				enna Distance to Planar Phant			tom (see Appendix D)		D)
	(Fron	t of DUT	Parallel to	Plana	r Phantom	)	,	Antenna 1 Antenna 2			2	Antenna	a 3 Antenna 4		enna 4	
			2.5 cm				5.5 cm 5.5 cm 5.5 cm 5.5 cm				5 cm					

Test Procedures in accordance with FCC KDB 643646 (see reference [9])

1. For face-held configuration, battery "d" was selected as the default battery (highest mAh).

2. When the head SAR of an antenna tested on the highest output power channel with the default battery is  $\leq$  3.5 W/kg, testing of all other required channels is not necessary.

3. When the SAR for all antennas tested using the default battery is  $\leq$  4.0 W/kg, test additional batteries using the antenna and channel configuration that resulted in the highest SAR among all antennas.

4. When test reduction applies, the data table entries for such configurations are denoted with N/A (Not Applicable).

Applicant:	HA	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Ро	rtable UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	ime:	XG-25P UHF-L	
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	Date(s) of Evaluation May 30-Jun7, 2013	Test Report Serial No. 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Testing and Engineering Services Lab	Test Report Issue Date	Description of Test(s)	RF Exposure Category	ACCREDITED
	20 October 2016	Specific Absorption Rate	Occupational (Controlled)	Test Lab Certificate No. 2470.01

TA	BLE 2			FAC	CE-HEL	D SA	R E\	ALUATION	RESUL	rs				
	Dev	vice-Und	er-Test	XG-2	25P UHF-I	L Radi	o Tra	nsceiver (Scar	ı)					
		Test	Date(s)	May	31, 2012									
C					1	2		3	4	5	6		7	8
			Cond.		SAR W/k	g 1g		SAR W/I	(g 1g	SAR	W/kg 1g		SAR W/	(g 1g
R	Antenna Accessory	Test Freg.	Power Before		ttery a (Ad	1		Battery b (A	1		(Additional)		attery d (I	1 /
	ID#	(MHz)	Test		% ptt d/f	50% p		100% ptt d/f	50% ptt d/f	100% ptt d/		100% ptt d/f		50% ptt d/f
			(W)	Dr	ift (dB)	50%+d	roop	Drift dB	50%+droop	Drift dB	50%+droop	Di	rift dB	50%+droop
1		408	5.17		N/A			N/A			N/A	F8	3.11	1.56
2		400	0.17									10	-0.231	1.64
3	1 (219/10)	418	5.07	N/A				N/A		I	N/A		N/A	
4	(,	100	- 00		N1/A			<b>N</b> 1/A			N/A		<b>N</b> 1/A	
5		428	5.09		N/A			N/A				N/A		
6		443	4.92	N/A				N/A			N/A			
7	2	458	4.97	N/A				N/A		I	N/A		N/A	
8	(219/12)	170	- 00	50	3.86	1.9	3	<b>N</b> 1/A						
9		470	5.20	F9	-0.142	1.9	99	N/A		N/A			N/A	
10		408	5.17		N/A			N/A			F10	2.66	1.33	
11	3	400	5.17		11/7			IN/77			1 10	-0.068	1.35	
12	(223/10)	418	5.07		N/A			N/A		I	N/A			
13		428	5.09		N/A			N/A		I		N/A		
14		443	4.92		N/A			N/A		I	N/A		N/A	
15	4	458	4.97		N/A			N/A		I	N/A		N/A	
16	(223/12)	470	5.20		N/A			N/A			N/A	F11	3.39	1.70
17		470	5.20		N/A			IN/74			N/A		0.005	1.70
		SAF	R LIMITS					HEAD	SPA	TIAL PEAK	RFE	XPOSU	RE CATE	GORY
	C 47 CFR 2.1	093	Health Ca	anada	Safety Coo	le 6		8.0 W/kg	1 gra	am average	Occ	upation	nal / Contr	olled
Note	e <b>s</b> Column; R = F	20W						Fx (F = Face)	denotes the	corresponding	Face SAR Plot	# ge eh	own in Δn	endix A
	Mode = CW (		ated Contir	nuous V	Wave)			Phantom = E				1 43 31		
	ront of DUT E				,	pendiv	D)						D)	
					r Phantom		_,				Antenna 2 Antenna			enna 4
	2.5 cm					5.5 cm 5.5 cm 5.5 cm				5.5 cm				

Subsets of tests were performed for the Scan radio model variant based on re-evaluating the maximum SAR levels per antenna configuration from the System model evaluations.

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS		
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	me:				
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	Date(s) of Evaluation May 30-Jun7, 2013	<u>Test Report Serial No.</u> 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Celltech	Test Report Issue Date	Description of Test(s)	RF Exposure Category	Test Lab Certificate No. 2470.01
Testing and Engineering Services Lab	20 October 2016	Specific Absorption Rate	Occupational (Controlled)	

TA	BLE 3			BOI	OW-YC	RN S	AR E	EVALI	JATIO	N RE	SUL	TS						
	Dev	/ice-Und	er-Test		5P UHF-I													
	Body-worn				efault)	- 1 (0 0			(eyete	,,,,,								
	-	Accesso	-		(Default)													
	Audio		-		· ,	10												
С		Test	Date(s)	June	3 & 4, 20	12			3	4			5	6		7	8	
			Cond.		SAR W/kg				SAR W/k	-			SAR W/k	-		SAR W/	-	
	Antenna	Test	Power	Bat	tery a (Ad		al)		ery b (Ad		al)		ery c (Ad		В	attery d (I		
R	Accessory ID #	Freq.	Before		% ptt d/f	50% p	-		ptt d/f	50% p	-		ptt d/f	50% ptt d/f		% ptt d/f	50% ptt d/f	
	ID #	(MHz)	Test (W)		ft (dB)	50%+0			it dB	50%+c			t dB	50%+droop		rift dB	50%+droop	
1																5.24	2.62	
2		408	5.06		N/A			N/A			N/A			B1	-0.392	2.87		
3	1	418	5.01		N/A				N/A			N/A				N/A		
4	(219/10)		0.01		11// 1				11/7				11/7					
		428	5.01		N/A				N/A			N/A				N/A		
5			4.00						N//A			N1/A						
6		443	4.80		N/A				N/A			N/A				N/A		
7	2	458	4.93		N/A			N/A				N/A		B3	7.85	3.93		
8	(219/12)															-0.418	4.32	
9		470	5.14	N/A					N/A				N/A		B2	8.25	4.13	
10															-0.257	4.38		
11		408	5.06		N/A			N/A			N/A			B4	5.51	2.76		
12	3							N/A						-0.132 2.84				
13	(223/10)	418	5.01		N/A				N/A			N/A			N/A			
14		428	5.01		N/A				N/A				N/A			N/A		
15		443	4.80	B8	9.07	4.	54	B9	8.99	4.	50	B10	8.46	4.23	B7	8.78	4.39	
16		440	4.00	50	-0.173	4.	72	59	-0.669	5.2	24	510	-0.210	4.44	57	-0.288	4.69	
17	4	450	4.02		N1/A				N1/A				N1/A		DC	8.17	4.09	
18	(223/12)	458	4.93		N/A				N/A				N/A		B6	-0.248	4.33	
19					• • • •											8.71	4.36	
20		470	5.14	k N/A N/A N/A						B5	-0.340	4.71						
SAR LIMITS						BOD	(		SPAT	IAL PE	AK	RF E	XPOSU	<b>IRE CATE</b>	GORY			
FC	FCC 47 CFR 2.1093 Health Canada Safety Code 6						8.0 W/I	(g		1 grai	m avera	ge	Occ	upatior	nal / Contr	olled		
-	Notes							-										
	Column; R = F	-											•	dy SAR Plot	# as sh	iown in Ap	pendix A	
	Mode = CW (							Phantom = Barski Planar Phanton						om (and Annondix D)				
В	ack of DUT D (Back				m (see Apj r Phantom		(D)	Shortest Antenna Distance to Plan Antenna 1 Antenna 2			Antenna 3 Antenna 4		,					
	1.6 cm					Antenna i         Antenna i         Antenna i         Antenna i           2.0 cm         2.0 cm         2.0 cm         2.0 cm												
1.0 CIII								2.0 cm 2.0 cm 2.0 cm					-					

Applicant:	HAF	RIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS			
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	eiver with Bluetooth DUT Name: XG-25P UHF-L						
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Celltech	Date(s) of Evaluation May 30-Jun7, 2013	Test Report Serial No. 45461369 R1.0	<u>Test Report Revision No.</u> Rev. 1.1	
Testing and Engineering Services Lab	Test Report Issue Date	Description of Test(s)	<u>RF Exposure Category</u>	ACCREDITED
	20 October 2016	Specific Absorption Rate	Occupational (Controlled)	Test Lab Certificate No. 2470.01

#### Test Procedures applied in accordance with FCC KDB 643646 (see reference [9])

1. For Body-worn configuration, battery "d" was selected as the default battery\*.

2. When the body SAR of an antenna is  $\leq$  3.5 W/kg, testing of all other required channels is not necessary for that antenna.

3. When the body SAR of an antenna is >4.0 W/kg, test adjacent channels.

3. When the SAR for all antennas tested using the default battery is  $\leq$  6.0 W/kg, test additional batteries using the antenna and channel configuration that resulted in the highest SAR among all antennas.

4. The audio accessory G8a was selected as the default audio accessory based on preliminary evaluations.

5. When test reduction applies, the data table entries for such configurations are denoted with N/A (Not Applicable).

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	ime:	XG-25P UHF-L	
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Celltech	Date(s) of Evaluation May 30-Jun7, 2013	Test Report Serial No. 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Testing and Engineering Services Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

TA	BLE 4			BOD	Y-WOI	RN S	AR I	EVALUATIO	N RESUL	.TS				
	Dev	/ice-Und	er-Test	XG-25	5P UHF-	L Rad	lio Tra	insceiver (Scan	1)					
	Body-worn	Accesso	ory ID #	5 (Def	ault)									
		Accesso	-		Default)									
			Date(s)		3 & 4, 20	12								
С			( . )		1		2	3	4	5	6	7		8
			Cond.		SAR W/k	g 1g		SAR W/k	g 1g	SAR W/	(g 1g		SAR W/k	ig 1g
R	Antenna Accessory	Test Freq.	Power Before	Batt	ery a (Ad	dition	al)	Battery b (Ac	lditional)	Battery c (Ac	ditional)	Ba	attery d (I	Default)
n	ID #	(MHz)	Test	100%	ptt d/f	50% j	ptt d/f	100% ptt d/f	50% ptt d/f	100% ptt d/f 50% ptt d/f		100%	% ptt d∕f	50% ptt d/f
			(W)	Drift	t (dB)	50%+	droop	Drift dB	50%+droop	Drift dB	50%+droop	Dr	ift dB	50%+droop
1		408	5.17		N/A			N/A		N/A		B11	4.97	2.49
2		400	5.17		10/7					N/A		DII	-0.040	2.51
3	1 (219/10)	418	5.07	N/A				N/A		N/A			N/A	
4	(,	100	5.09 N/A					N1/A		<b>N</b> 1/A			N1/A	
5		428	5.09		IN/A			N/A		N/A		N/A		
6		443	4.92	N/A				N/A		N/A		N/A		
7	2	458	4.97	N/A				N/A	N/A				N/A	
8	(219/12)								N1/A				8.31	4.16
9		470	5.20		N/A			N/A		N/A		B12	-0.157	4.31
10		100	E 47		N1/A			N/A		<b>N1/A</b>		D40	6.25	3.13
11	3	408	5.17		N/A			N/A		N/A		B13	-0.003	3.13
12	(223/10)	418	5.07		N/A			N/A		N/A	N/A			
13		428	5.09		N/A			N/A		N/A		N/A		
14		443	4.92	B14	9.21	4.	.61	N/A		N/A			NI/A	
15		443	4.92	D14	0.038	4.	.61	N/A		N/A			N/A	
16	4 (223/12)	458	4.97		N/A			N/A		N/A			N/A	
17	(,	470	5.20		N/A			N/A		N/A			N/A	
18 470 5.20 N/A							N/A		N/A			IN/A		
SAR LIMITS							BODY		TIAL PEAK			RE CATE		
FCC 47 CFR 2.1093 Health Canada Safety Code 6							8.0 W/kg	1 gra	im average	Occ	upation	al / Contr	olled	
Note	e <b>s</b> Column; R = F	Row						Bx (B = Body)	denotes the	corresponding Bo	ody SAR Plot	# as sh	own in An	pendix A
	Test Mode = CW (Unmodulated Continuous Wave)						Phantom = B				45 511	own in Ap		
	ack of DUT D				,	pendiv	x D)					D)		
			Parallel to					Antenna		Antenna 2	Antenna			, enna 4
			1.6 cm					2.0 cm 2.0 cm 2.0 cm 2.0 cm			.0 cm			

Subsets of tests were performed for the Scan radio model variant based on re-evaluating the maximum SAR levels per antenna configuration from the System model evaluations.

Applicant:	HAF	RIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	me:	XG-25P UHF-L	
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	Date(s) of Evaluation May 30-Jun7, 2013	<u>Test Report Serial No.</u> 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Celltech	Test Report Issue Date	Description of Test(s)	RF Exposure Category	Test Lab Certificate No. 2470.01
Testrg and Engineering Services Lab	20 October 2016	Specific Absorption Rate	Occupational (Controlled)	

TA	BLE 5			BOD	OY-WOF	RN S	AR E	EVALI	JATIO	N RES	SUL	TS					
	Dev	vice-Und	er-Test	XG-2	5P UHF-L	Rad	io Tra	nsceive	r (Syste	em)							
	Body-worn	Accesso	orv ID #	1 (Ad	ditional)												
	-	Accesso	•		G8a (Default)												
			Date(s)		4 & 5, 20 <sup>-</sup>	12											
С		1001	Duto(0)	ouno	1 1	2	2		3 4				5	6		7 8	
-			Cond.		SAR W/kg		-		SAR W/k			SAR W/				SAR W/k	
	Antenna	Test	Power	Bat	tery a (Add		al)		ery b (Ad		I)	1	ery c (Ad		B	attery d (I	
R	Accessory ID #	Freq. (MHz)	Before Test	100%	% ptt d/f	50% p	ott d/f	100%	ptt d/f	50% pt	t d/f	100%	ptt d/f	50% ptt d/f	100%	% ptt d∕f	50% ptt d/f
		× ,	(W)	Dri	ft (dB)	50%+0	droop	Drif	t dB	50%+dı	roop	Drif	t dB	50%+droop	Dr	ift dB	50%+droop
1		400	F 00		N1/A				N1/A				N1/A		D46	2.22	1.11
2		408	5.06		N/A				N/A				N/A		B15	-0.360	1.21
3	1 (219/10)	418	5.01		N/A				N/A				N/A			N/A	
4	(219/10)																
5		428	5.01		N/A				N/A				N/A			N/A	
6		443	4.80		N/A				N/A			N/A			N/A		
7					14/7 4												
8	2	458	4.93	N/A				N/A				N/A			N/A		
9	(219/12)															2.61	1.31
10		470	5.14		N/A				N/A				N/A		B16	-0.311	1.40
11														1.96	0.980		
12	3	408	5.06		N/A			N/A			N/A			B17	-0.136	1.01	
13	3 (223/10)	418	5.01		N/A			N/A			N/A			N/A			
14		428	5.01		N/A				N/A N/A			N/A			N/A		
15																	
16		443	4.80		N/A				N/A			N/A				N/A	
17	4																
18	4 (223/12)	458	4.93		N/A				N/A				N/A			N/A	
19					2.85	1	43		2.55	1.2	8		2.54	1.27		2.72	1.36
20	470 5.14 B19						B20	-0.555	1.4	_	B21	-0.343	1.37	B18	-0.148	1.41	
SAR LIMITS						BODY		1					XPOSU				
FCC 47 CFR 2.1093 Health Canada Safety Code 6											XPOSURE CATEGORY cupational / Controlled						
Note	s						1	•		1	-				-		
C = 0	Column; R = F	Row						,				•	<u> </u>	dy SAR Plot	# as sh	own in Ap	pendix A
Test	Mode = CW (	Unmodula	ted Contin	nuous V	Vave)			Phantom = Barski Planar Phantom									
В	ack of DUT D						cD)	Shortest Antenna Distance to Planar Phantom (see Appendix D)									
	(Back of Radio Parallel to Planar Phantom)					Antenna 1 Antenna 2 Antenna 3 Antenna 4 7 om 4 7 om 4 7 om 4 7 om 4 7 om											
	4.5 cm						4.7 cm 4.7 cm 4.7 cm 4.7 cm					/ CM					

Applicant:	HAF	RIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS	
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	me:	XG-25P UHF-L		
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Celltech	Date(s) of Evaluation May 30-Jun7, 2013	<u>Test Report Serial No.</u> 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Testing and Engineering Services Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

TA	BLE 6			BOD	Y-WOI	RN S	AR E	EVALUATIO	N RESUL	.TS					
	Dev	/ice-Und	er-Test	XG-25	P UHF-I	L Radi	io Tra	nsceiver (Scan	)						
	Body-worn	Accesso	ory ID #	1 (Add	ditional)										
	Audio	Accesso	ory ID #	G8a (	Default)										
		Test	Date(s)	June 4	4 & 5, 20	12									
С			.,		1	2	2	3	4	5	6	7		8	
			Cond.	SAR W/kg 1g			SAR W/k	g 1g	SAR W/	(g 1g		SAR W/	(g 1g		
R	Antenna Accessory	Test Freg.	Power Before	Batt	ery a (Ad	ditiona	al)	Battery b (Ac	Iditional)	Battery c (Ad	ditional)	B	attery d (l	Default)	
n	ID #	(MHz)	Test	100%	ptt d/f	50% p	ott d/f	100% ptt d/f	50% ptt d/f	100% ptt d/f	50% ptt d/f	100%	% ptt d∕f	50% ptt d/f	
			(W)	Drift	: (dB)	50%+0	droop	Drift dB	50%+droop	Drift dB	50%+droop	Dr	ift dB	50%+droop	
1		408	5.17		N/A			N/A		N/A		B22	2.18	1.09	
2		100	0.11	N/A							022	-0.238	1.15		
3	1 (219/10)	418	5.07		N/A			N/A		N/A			N/A		
4	(,	428 5.09 N/A				NI/A		N1/A			N/A				
5		428	5.09		N/A			N/A	N/A		N/A				
6		443	4.92	N/A			N/A	N/A				N/A			
7	2	458	4.97	N/A			N/A	N/A				N/A			
8	(219/12)	170	5.00		N1/A			N1/A		N/A		Doo	2.73	1.37	
9		470	5.20		N/A			N/A	N/A			B23	-0.124	1.41	
10		408	5.17		N/A			N/A		N/A		B24	2.11	1.06	
11	3	400	5.17		11/7			N/A				D24	0.059	1.06	
12	(223/10)	418	5.07		N/A			N/A	N/A		N/A		N/A		
13		428	5.09		N/A			N/A		N/A	N/A				
14		443	4.92		N/A			N/A		N/A			N/A		
15	4	440	4.02		1.071			10//					11// 1		
16	4 (223/12)	458	4.97		N/A	1		N/A		N/A			N/A		
17		470 5.20 B25 2.73 1.37 N/A N/A							N/A						
<b>18</b> 0.059 1.37						1070		107							
SAR LIMITS         BODY           FCC 47 CFR 2.1093         Health Canada Safety Code 6         8.0 W/kg						BODY 8.0 W/kg		TIAL PEAK			RE CATE				
Note		093	Health Ca	anaud Si	alety COC	10 0		0.0 W/Kg	i gra	ann averaye	000	upation		oneu	
	Column; R = F	Row						Bx (B = Body)	denotes the	e corresponding Bo	ody SAR Plot	# as sh	own in Ap	pendix A	
Test	Mode = CW (	Unmodula	ated Contir	nuous Wa	ave)			Phantom = B						-	
В	ack of DUT D						D)	Sho	rtest Antenn	na Distance to Pla	nar Phantor	n (see A	Appendix	D)	
	(Back	of Radio	Parallel to		Phanton	ו)		Antenna							
4.5 cm						4.7 cm		4.7 cm	4.7 cm		4	.7 cm			

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS	
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	me:	XG-25P UHF-L		
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	Date(s) of Evaluation May 30-Jun7, 2013	<u>Test Report Serial No.</u> 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Testing and Engineering Services Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

TA	BLE 7			BOD	OY-WO	RN SA	AR E	VALU	JATIO	N RESUI	TS					
	Dev	/ice-Und	er-Test	XG-2	5P UHF-I	L Radio	o Trai	nsceive	r (Syste	em)						
	Body-worn	Accesso	ory ID #	3 (Ad	ditional)											
	Audio	Accesso	ory ID #	G8a	(Default)											
		Test	Date(s)	June	5 & 6 20 <sup>-</sup>	12										
С					1	2		:	3	4		5	6		7	8
			Cond.		SAR W/k	g 1g			SAR W/k	g 1g		SAR W/k	g 1g	SAR W/kg 1g		
R	Antenna Accessory	Test Freg.	Power Before	-	tery a (Ad	1	-		ery b (Ad			ery c (Ad			attery d (D	
	ID#	(MHz)	Test		% ptt d/f	50% pt			ptt d/f	50% ptt d/f	_	optt d∕f	50% ptt d/f		6 ptt d/f	50% ptt d/f
			(W)	Dri	ft (dB)	50%+dr	roop	Drif	t dB	50%+droop	Dri	ft dB	50%+droop	Dr	ift dB	50%+droop
1		408	5.06		N/A				N/A			N/A		B26	1.40	0.700
														-0.401	0.768	
3 (219/10) 418 5.01 N/A						N/A			N/A			N/A				
4		428	5.01		N/A				N/A			N/A			N/A	
5																
6	6 443 4.80 N/A N/A N/A							N/A								
7	0	458	4.93		N/A			N/A				N/A			N/A	
8	2 (219/12)	400	4.00		IN/A				10/1				•			
9	· · /	470	5.14	B30	1.90	0.95	50	B31	1.82	0.910	B32	1.54	0.770	B27	1.85	0.925
10		770	5.14	500	-0.336	1.0	3	DUT	-0.340	0.984	002	-0.297	0.825	021	-0.350	1.00
11		408	5.06		N/A				NI/A			N/A		B28	1.36	0.680
12	3	400	5.00		IN/A			N/A			N/A			620	-0.221	0.715
13	(223/10)	418	5.01		N/A				N/A		N/A			N/A		
14		428	5.01		N/A				N/A			N/A			N/A	
15		443	4.80		N/A				N/A			N/A			N/A	
16		443	4.00		IN/A				N/A			N/A			N/A	
17	4	458	4.93		N/A				N/A			N/A			N/A	
18	(223/12)	400	4.95		N/A				N/A			N/A			IN/A	
19		470	5.14		N/A				N/A			N/A		B29	1.85	0.925
20 470 5.14 N/A								N/A			N/A		B29	-0.162	0.960	
		SAF	R LIMITS					BODY	1	SPA	TIAL PE	AK			RE CATE	
	C 47 CFR 2.1	093	Health C	anada S	Safety Coo	de 6		8.0 W/k	g	1 gra	am avera	ge	Occ	upation	al / Contr	olled
Note	e <b>s</b> Column; R = F	Row						By /E	R = Rody	denotes the	COTTOER	onding Po		# ac ch	own in An	oendix A
	Mode = CW (		ated Contin	111011e M	(ave)			Bx (B = Body) denotes the corresponding Body SAR Plot # as shown in Appendix A Phantom = Barski Planar Phantom								
	ack of DUT D				,	pendix					D)					
					r Phantom					enna 4						
5.4 cm							5.9 cm		5.9 cm		5.9 cm		5.	9 cm		

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS		
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	me:	XG-25P UHF-L			
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Celltech	Date(s) of Evaluation May 30-Jun7, 2013	<u>Test Report Serial No.</u> 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Testing and Engineering Services Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

TA	BLE 8			BOD	Y-WOI	RN S	AR E	EVALUATIO	N RESU	LTS					
	Dev	/ice-Und	er-Test	XG-25	P UHF-	L Rad	io Tra	nsceiver (Scar	1)						
	Body-worn	Accesso	ory ID #	3 (Add	ditional)										
	Audio	Accesso	ory ID #	G8a (	Default)										
		Test	Date(s)	June 8	5 & 6, 20	)12									
С					1	2	2	3	4	5	6		7	8	
			Cond.		SAR W/k	g 1g		SAR W/k	kg 1g	SAR W/	kg 1g		SAR W/k	ig 1g	
R	Antenna Accessory	Test Freg.	Power Before	Batt	ery a (Ad	dition	al)	Battery b (Ac	ditional)	Battery c (Additional)		В	attery d (I	Default)	
	ID #	(MHz)	Test	100%	ptt d/f	50% p	ott d/f	100% ptt d/f	50% ptt d/f	100% ptt d/f	50% ptt d/f	1009	% ptt d/f	50% ptt d/f	
			(W)	Drift	: (dB)	50%+0	droop	Drift dB 50%+droop		Drift dB	50%+droop	Drift dB		50%+droop	
1		408	5.17		N/A			N/A		N/A	4	B33	1.44	0.720	
2													-0.081	0.734	
3	1 (219/10)	418	5.07		N/A			N/A		N//	4		N/A		
4	4 428 5.09 N/A							N/A		N/#	N		NI/A		
5		5.09	N/A			N/A		19/7	N/A						
6		443	4.92	N/A				N/A		N/#	N/A				
7	2	458	4.97	N/A				N/A		N/#	ł		N/A		
8	(219/12)	170	- 00	1.79 0.895											
9		470	5.20	B34	-0.097	0.9	915	N/A		N/#	4		N/A	_	
10		408	5.17		N/A			N/A		N/#	N	B35	1.25	0.625	
11	3	400	5.17					N/A		14/7	1	000	0.004	0.625	
12	(223/10)	418	5.07		N/A			N/A		N/#	4		N/A		
13		428	5.09		N/A			N/A		N/#	4		N/A		
14		443	4.92		N/A			N1/A		N1/2	\		N1/A		
15		440	4.92		IN/A			N/A		N//	٦		N/A		
16	4 (223/12)	458	4.97		N/A			N/A		N/#	4		N/A		
17	(	470	5.20		N/A			N/A		N//	\	B36	1.56	0.780	
18 470 5.20 N/A							N/A		19/7	1	630	-0.024	0.784		
	SAR LIMITS							BODY	SPA	TIAL PEAK	RFE	XPOSU	RE CATE	GORY	
FC	C 47 CFR 2.1	093	Health Ca	anada Sa	afety Coo	de 6		8.0 W/kg	1 gra	am average	Occ	upation	al / Contr	olled	
Note	<b>es</b> Column; R = F	Pow													
	Mode = CW (		ated Contin		ave)			Bx (B = Body) denotes the corresponding Body SAR Plot # as shown in Appendix A Phantom = Barski Planar Phantom							
	ack of DUT D				,	nondiv					anar Phantor	n (see /	Appendix	D)	
			Parallel to				(0)	Shortest Antenna Distance to Planar Antenna 1 Antenna 2		Antenna	•	· · ·	enna 4		
5.4 cm						5.9 cm		5.9 cm	5.9 cm			9 cm			

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	me:	XG-25P UHF-L	
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Celltech	Date(s) of Evaluation May 30-Jun7, 2013	<u>Test Report Serial No.</u> 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Testing and Engineering Services Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

TA	BLE 9			BO	OY-WOF	RN S.	AR E	EVALI	JATIO	N RES	UĽ	TS					
	Dev	vice-Und	er-Test	XG-2	5P UHF-L	Radi	io Tra	nsceive	r (Syste	m)							
	Body-worn	Accesso	orv ID #	4 (Ad	lditional)					,							
	-	Accesso		,	(Default)												
			Date(s)		6, 2012												
С		1001	Duto(0)	ouno	1	2			3	4			5	6		7	8
_			Cond.		SAR W/kg				SAR W/kg	g 1g			SAR W/k		SAR W/kg 1g		
	Antenna	Test	Power	Bat	tery a (Add		al)		ery b (Ad				ery c (Ad		Ba	attery d (I	
R	Accessory ID #	Freq. (MHz)	Before Test	100%	% ptt d/f	50% p	ott d/f	100%	ptt d/f	50% ptt	d/f	100%	ptt d/f	50% ptt d/f	100%	% ptt d∕f	50% ptt d/f
		×	(W)	Dri	ft (dB)	50%+c	lroop	Drif	t dB	50%+dro	ор	Drif	it dB	50%+droop	Drift dB		50%+droop
1		400	5.06		N/A				N/A				N/A		B37	3.54	1.77
2		408	5.00		IN/A				IN/A				N/A		B37	-0.426	1.95
3	1 (219/10)	418	5.01		N/A				N/A				N/A			N/A	
4	(219/10)																
5		428	5.01		N/A				N/A				N/A			N/A	
6 443 4.80 N/A								N/A				N/A			N/A		
7 458 4.93 N/A							NI/A			N/A				N/A			
8	2 (219/12)	458	4.93		N/A				N/A				N/A			N/A	
9	(,	470	5.14		N1/A			N/A				N/A		B38	4.60	2.30	
10		470	J. 14		N/A			N/A						830	-0.406	2.53	
11		408	5.06		N/A			N/A				N/A		B39	4.17	2.09	
12	3								N/A							2.19	
13	(223/10)	418	5.01		N/A				N/A			N/A			N/A		
14		428	5.01		N/A				N/A				N/A			N/A	
15		443	4.80		N/A				N/A				N/A			N/A	
16																	
17 18	4 (223/12)	458	4.93		N/A				N/A				N/A			N/A	
19	19 5.34 2.67								5.12	2.56			4.96	2.48		4.82	2.41
<b>20</b> 470 5.14 B41 -0.235 2.82							82	B42	-0.571	2.92		B43	-0.169	2.58	B40	-0.217	2.53
		SAF	R LIMITS			1		BODY	1	SI	PAT	IAL PE	AK	RF E	XPOSU	RE CATE	GORY
FC	C 47 CFR 2.1	093	Health Ca	anada S	Safety Cod	e 6		8.0 W/	(g	1	grar	m avera	ge	Occ	upation	al / Contr	olled
Note																	
	Column; R = R	-						Bx (B = Body) denotes the corresponding Body SAR Plot # as shown in Append					pendix A				
	Mode = CW (				· · ·			Phantom = Barski Planar Ph							\	D)	
B	ack of DUT D (Back				m (see App r Phantom		(D)	Shortest Antenna Distance to Pla Antenna 1 Antenna 2		Antenna 3			D) enna 4				
	3.2 cm																
	3.2 cm						3.4 cm 3.4 cm 3.4 cm 3.4 cm					4 cm					

Applicant:	HAF	RIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	me:	XG-25P UHF-L	
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Testing and Engineering Services Lab	Test Report Issue Date	Description of Test(s)	RF Exposure Category	ACCREDITED
	20 October 2016	Specific Absorption Rate	Occupational (Controlled)	Test Lab Certificate No. 2470.01

TA	BLE 10			BOD	Y-WOI	RN S	AR I	EVALUATIO	N RESUL	.TS				
	Dev	/ice-Und	er-Test	XG-25	5P UHF-I	L Rad	lio Tra	nsceiver (Scan	)					
	Body-worn	Accesso	ory ID #	4 (Add	ditional)									
	Audio	Accesso	ory ID #	G8a (	(Default)									
		Test	Date(s)	June (	6, 2012									
С			.,		1	2	2	3	4	5	6		7	8
			Cond.		SAR W/k	g 1g		SAR W/k	g 1g	SAR W/k	.g 1g	SAR W/kg 1g		
R	Antenna Accessory	Test Freq.	Power Before	Batt	ery a (Ad	dition	al)	Battery b (Ac	ditional)	Battery c (Ad	Iditional)	Ba	attery d (I	Default)
n	ID #	(MHz)	Test	100%	ptt d/f	50%	ptt d/f	100% ptt d/f	50% ptt d/f	100% ptt d/f	50% ptt d/f	100% ptt d/f		50% ptt d/f
			(W)	Drif	t (dB)	50%+	droop	Drift dB	50%+droop	Drift dB	50%+droop	Dri	ift dB	50%+droop
1		408	5.17		N/A			N/A		N/A		B44	3.42	1.71
2		400	0.17		11// (			10// (		1077		DHH	-0.270	1.82
3	1 (219/10)	418	5.07	N/A				N/A		N/A			N/A	
4	(,	100	- 00		N1/A								N1/A	
5		428	5.09	N/A				N/A		N/A	N/A			
6		443	4.92	N/A				N/A		N/A	N/A			
7	2	458	4.97	N/A				N/A		N/A			N/A	
8	(219/12)							N/A					5.35	2.68
9		470	5.20		N/A			N/A		N/A		B45	-0.168	2.78
10		400	E 47		N1/A			N/A		N1/A		B46	3.54	1.77
11	3	408	5.17		N/A			N/A		N/A	0.062		1.77	
12	(223/10)	418	5.07		N/A			N/A		N/A			N/A	
13		428	5.09		N/A			N/A		N/A			N/A	
14		443	4.92		N/A			N/A		N/A			N/A	
15		0	4.02							1077			1071	
16	4 (223/12)	458	4.97		N/A			N/A		N/A			N/A	
							.34	N/A		N/A			N/A	
18         476         5.26         B47         -0.159         2.43							.43						19/7	
	SAR LIMITS           FCC 47 CFR 2.1093         Health Canada Safety Code 6							BODY		TIAL PEAK			RE CATE	
	C 47 CFR 2.1	093	Health Ca	anada S	afety Coo	le 6		8.0 W/kg	1 gra	im average	Occ	upation	al / Contr	olled
Note	e <b>s</b> Column; R = F	Row						Bx (B = Body)	denotes the	corresponding Bo	dv SAR Plot	# as sh	own in An	pendix A
	Mode = CW (		ated Contir	nuous W	ave)			Bx (B = Body) denotes the corresponding Body SAR Plot # as shown in Appendix Phantom = Barski Planar Phantom						
	ack of DUT D				,	pendix	pendix D) Shortest Antenna Distance to Planar Phantom			n (see A	Appendix	D)		
			Parallel to				_,	Antenna		Antenna 2 Antenna			na 3 Antenna 4	
	3.2 cm							3.4 cm		3.4 cm	3.4 cm		3.	4 cm

Subsets of tests were performed for the Scan radio model variant based on re-evaluating the maximum SAR levels per antenna configuration from the System model evaluations.

Applicant:	HAF	RIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	me:	XG-25P UHF-L	
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	Date(s) of Evaluation May 30-Jun7, 2013	Test Report Serial No. 45461369 R1.0	Test Report Revision No. Rev. 1.1	
Celitech	Test Report Issue Date	Description of Test(s)	RF Exposure Category	Test Lab Certificate No. 2470.01
Testing and Engineering Services Lab	20 October 2016	Specific Absorption Rate	Occupational (Controlled)	

TA	BLE 11			BOD	Y-WOI	RN SAI	R EVA	<b>ALU</b>		N RESU	LTS					
	Dev	/ice-Und	er-Test	XG-2	5P UHF-	L Radio	Fransc	eiver	· (Syste	em)						
	Body-worn	Accesso	ory ID #	6 (Ad	ditional)											
	Audio	Accesso	ory ID #	G8a	(Default)											
		Test	Date(s)	June	7 2012											
С			.,		1	2		3		4		5	6		7	8
			Cond.		SAR W/k	g 1g		SAR W/kg 1g			SAR W/	kg 1g	SAR W/kg 1g			
в	Antenna Accessory	Test Freq.	Power Before	Bat	tery a (Ad	ditional)	E	Batte	ry b (Ad	ditional)	Bat	tery c (Ac	ditional)	Ba	attery d (E	Default)
	ID #	(MHz)	Test	100%	6 ptt d/f	50% ptt o	l/f 1	00% p	ott d/f	50% ptt d/	1009	% ptt d∕f	50% ptt d/f	100%	% ptt d/f	50% ptt d/f
			(W)	Dri	ft (dB)	50%+droe	р	Drift	dB	50%+drooj	Dr	ift dB	50%+droop	Dr	ift dB	50%+droop
1		408	5.06		N/A				N/A			N/A		B48	2.70	1.35
2		400	0.00		1.07				14/7 (			10/1		-0.423 1.49		
3	1 (219/10)	418	5.01		N/A N/A N/A								N/A			
4											N1/A					
5		428 5.01 N/A N/A N/A									N/A					
6		443	4.80		N/A				N/A			N/A				
7		458	4.93		N/A				N/A			N1/A				
8	2 (219/12)	400	4.95		IN/A				N/A			N/A			N/A	
9	、 <i>,</i>	470	5.14	B52	3.55	1.78	B5	53	3.64	1.82	B54 3.23		1.62	B49	3.59	1.80
10			0.11	802	-0.278	1.89		50	-0.383	1.99	201	-0.520	1.82	810	-0.272	1.91
11		408	5.06		N/A				N/A			N/A		B50	2.78	1.39
12	3	400	5.00		11/7				N/A			N/A		550	-0.187	1.45
13	(223/10)	418	5.01		N/A				N/A			N/A			N/A	
14		428	5.01		N/A				N/A			N/A			N/A	
15		443	4.80		N/A				N/A			N/A			N/A	
16		647	4.00		IN/A				IN/A			IN/A			IN/A	
17	4	458	4.93		N/A				N/A			N/A			N/A	
18	(223/12)	400	4.90		IN/A				IN/A			IN/A			IN/A	
19		470	E 4 4		N1/A				N1/A			N1/A			3.38	1.69
20	0 470 5.14 N/A N/A N/A								B51	-0.207	1.77					
		SAF	R LIMITS				В	ODY		SP	TIAL PE	AK	RF E	XPOSU	RE CATE	GORY
	C 47 CFR 2.1	093	Health C	anada S	afety Coo	de 6	8.0	) W/kę	g	1 gi	am aver	age	Occ	upation	al / Contr	olled
Note	-	Pow					1.		= Reduit	donotoo th	0.0000000	onding D		# 00 05	own in Ar	oondix A
	Column; R = F Mode = CW (		ted Contin		(ave)			-					ody SAR Plot	# as sh	own in Ap	bendix A
-	ack of DUT D				•	nondiy D	Phantom = Barski Planar Phantom           Shortest Antenna Distance to Planar Phantom (see A)			Appendix	D)					
В			Planar Parallel to								enna 4					
	3.5 cm						3.9 cm 3.9 cm 3.9 cm 3.9 cm					9 cm				

	Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
	DUT Type:	Por	table UHF Band PTT	<b>Radio Trans</b>	ceiver with Bluetooth	DUT Na	me:	XG-25P UHF-L	
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Testing and Engineering Services Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

TA	BLE 12			BODY-WOP	RN SAR	EVALI	JATIO	N RESUL	.TS					
	Dev	/ice-Und	er-Test	XG-25P UHF-I	L Radio Tra	ansceive	er (Scan	)						
	Body-worn	Accesso	ory ID #	6 (Additional)										
	Audio	Accesso	ory ID #	G8a (Default)										
		Test	Date(s)	June 7, 2012										
С			( )	1	2		3	4	5	6		7	8	
			Cond.	SAR W/k	g 1g		SAR W/k	g 1g	SAR W/k	ig 1g		SAR W/k	ig 1g	
R	Antenna	Test	Power Before	Battery a (Ad	ditional)	Batt	Battery b (Additional)		Battery c (Ac	Ba	attery d (I	Default)		
n	Accessory ID #	Freq. (MHz)	Test	100% ptt d/f	50% ptt d/f	100%	ptt d/f	50% ptt d/f	100% ptt d/f	50% ptt d/f	100%	% ptt d∕f	50% ptt d/f	
			(W)	Drift (dB)	50%+droop	Dri	ft dB	50%+droop	Drift dB	50%+droop	Dr	ift dB	50%+droop	
1		408	5.17	N/A			N/A		N/A		B55	2.82	1.41	
2		400	5.17	N/A			IN/A		IN/A		555	-0.273	1.50	
3	1 (219/10)	418	5.07	N/A			N/A		N/A			N/A		
4	(210/10)	100	- 00	N1/A										
5		428	5.09	N/A		N/A		N/A			N/A			
6		443 4.92 N/A N/A N/A							N/A					
7	2	458	4.97	N/A			N/A		N/A			N/A		
8	(219/12)						3.74	1.87						
9		470	5.20	N/A		B56	-0.069	1.90	N/A			N/A		
10		408	5.17	N/A			N/A		N/A		B57	2.48	1.24	
11	3	400	5.17	N/A			IN/A		N/A		657	0.084	1.24	
12	(223/10)	418	5.07	N/A			N/A		N/A		N/A			
13		428	5.09	N/A			N/A		N/A			N/A		
14		443	4.92	N/A			N/A		N/A			N/A		
15		440	4.32	N/A			IN/A		N/A			IN/A		
16	4 (223/12)	458	4.97	N/A			N/A		N/A			N/A	1	
17	(	470	5.20	N/A			N/A		N1/A		B58	3.60	1.80	
18									D00	-0.058	1.82			
		-	R LIMITS			BOD		SPA	TIAL PEAK	RF E	XPOSU	RE CATE	GORY	
FC	C 47 CFR 2.1	093	Health Ca	anada Safety Cod	le 6	8.0 W/	kg	1 gra	im average	Occ	upation	al / Contr	olled	
Note	<b>es</b> Column; R = F	Pow			Bx (B = Body) denotes the corresponding Body SAR Plot # as shown in Appendix A									
	Mode = CW (		ated Contin	Nous Wave)		· ·				JUY JAK PIOL	# as sn	оwп ш Ар		
				Phantom (see App	nendir D)	Phantom = Barski Planar Phantom Shortest Antenna Distance to Planar Phantom (see Append				Annendiv	D)			
B				Planar Phantom		/		Antenna 2 Antenna						
	•		3.5 cm						9 cm					

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	me:	XG-25P UHF-L	
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Celltech	Test Report Issue Date	Description of Test(s)	RF Exposure Category	Test Lab Certificate No. 2470.01
Testing and Engineering Services Lab	20 October 2016	Specific Absorption Rate	Occupational (Controlled)	

ТА			<b>BODY-WOR</b>	N SAR EVAL	UATION I	RESUL	TS		
IA	BLE 13		REMAINING	DEFAULT A	UDIO AC	CESSO	ORIES BY GR	OUPING	
	Device	e-Under-Test	XG-25P UHF-L	Radio Transceiv	er (System)				
В	ody-worn Ac	cessory ID #	5 (Default)						
		Test Date(s)	June 7, 2012						
С							1	2	
	Antenna	Battery	Audio	Cond. Power	Test		1g SAR (W	(W/kg)	
R	Accessory ID #	Accessory ID #	Accessory ID #	Before Test (W)	Freq. (MHz)	Plot #	100% ptt d/f	50% ptt d/f	
		"	"	(/	()	#	SAR Drift dB	50%+droop	
1			G1a	4.80	443	A1	8.80	4.40	
2							-0.156	4.56	
3			G2a	4.80	443	A2	8.62	4.31	
4			020	4.00		7.2	-0.228	4.54	
5			G3a	4.80	443	A3	8.94	4.47	
6			658	4.00	775	7.5	-0.208	4.69	
7	4	а	G6a	4.80	443	A4	8.32	4.16	
8	4	a	Goa	4.80	443	A4	-0.178	4.33	
9			G4d	4.80	443	A5	9.01	4.51	
10			640	4.80	443	AS	-0.130	4.64	
11			G5	4.80	443	A6	8.68	4.34	
12			65	4.80	445	AU	-0.149	4.49	
13			G7a	4.80	443	A7	9.36	4.68	
14			Gra	4.00	440	A	-0.187	4.89	
Rep	eatability Tes	st per FCC (KI	DB: 447498)						
15			07-	4.00	440		8.12	4.06	
16	4	а	G7a	4.80	443	A8	-0.673	4.74	

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	ime:	XG-25P UHF-L	
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Testing and Engineering Services Lab	Test Report Issue Date 20 October 2016	Description of Test(s) Specific Absorption Rate	RF Exposure Category Occupational (Controlled)	Test Lab Certificate No. 2470.01

Table 14																
			Меа	asured SAR	Results	(1g) - F	ACE C	onfigur	ation	(FCC/IC)						
	DU	r	Test			DUT	Spacing	Conducted	Measured	SAR (10g)	SAR					
Date	M/N Type				Frequency	Modulation Antenna		Battery	Body	Audio	DUT Antenna		Power	100% DC	50% DC	Drift
			(MHz)		ID	ID	ID	ID	(mm)	( <i>mm</i> )	(W)	( <i>W/kg</i> )	( <i>W/kg</i> )	( <i>dB</i> )		
31 May 2012	XG-25P	Sys	388	CW	5	d	n/a	n/a	25	56	5.25	2.500	1.250	-0.517		
31 May 2012	y 2012 XG-25P Scan 388 CW 5						n/a	īνa	25	50	5.2	2.550	1.275	-0.305		
	SAR Limit Spatial Peak Head/Body RF Exposure Category															
FCC 4	17 CFR 2.109	3	Health Ca	anada Safety	Code 6 1 Gram Average			8.0	W/kg	Occupational/User Aware						

#### Table 15

			Меа	asured SAR	Results	(1g) - B	ODY C	onfigu	ration	(FCC/IC)				
	DU	r	Test			Access	ories		DUT Spacing		pacing Conducted		Measured SAR (10g)	
Date	50		Frequency	Modulation	Antenna	Battery	Body	Audio	DUT	Antenna	Power	100% DC	50% DC	Drift
	M/N	Туре	(MHz)		ID	ID	ID	ID	( <i>mm</i> )	( <i>mm</i> )	(dBm)	( <i>W/kg</i> )	( <i>W/kg</i> )	( <i>dB</i> )
3 June 2012		Sys					5			20	5.25	3.750	1.875	-0.215
5 June 2012		Scan					5			20	5.2	3.020	1.510	-0.770
4 June 2012		Sys					1			47	5.25	1.800	0.900	-0.459
4 June 2012	XG-25P	Scan					1			47	5.2	1.850	0.925	-0.298
5 June 2012	XG-25P	Sys	388	CW	5	d	3	G8a	0	59	5.25	1.150	0.575	-0.490
5 June 2012	70-251	Scan	500	011	5	ŭ	5	000	Ŭ	55	5.2	1.260	0.630	-0.143
6 June 2012		Sys					4			34	5.25	2.320	1.160	-0.419
0 June 2012		Scan					4			5	5.2	2.300	1.150	-0.232
7 June 2012		Sys					6			39	5.25	1.930	0.965	-0.518
7 Julie 2012		Scan					0			39	5.2	2.020	1.010	-0.172
	SAR Limit						Spatial Peak			d/Body	RF Exposure Category			
FCC 4	FCC 47 CFR 2.1093 Health Canada Safety Code				Code 6	ode 6 1 Gram Average			8.0 W/kg		Oc	Occupational/User Aware		

Applicant:	HAF	RRIS Corporation	FCC ID:	OWDTR-0141-E	IC:		3636B-0141	HARRIS
DUT Type:	Por	table UHF Band PTT	Radio Trans	ceiver with Bluetooth	DUT Na	me:	XG-25P UHF-L	
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## 8.0 SAR SCALING (TUNE-UP TOLERANCE)

SCALING	SCALING OF MAXIMUM SAR LEVELS TO MANUFACTURER'S TUNE-UP TOLERANCE SPECIFICATION										
Test Config. (MHz)		Antenna	Battery	Body-worn Accessory ID #	cessory Power		Drift SAR Level (50% PTT		Scaling up to Manuf. Upper Tol.	Scaled SAR (50% PTT d/f) 1g (W/kg)	
	(			10 //	Watts	dB	W/kg	Plot #	Power Spec.	· 9 (· · / · · 9/	
FCC (scaled	FCC (scaled without drift)										
Face-Held	470	2	а	N/A	5.14	-0.342	1.90	F5	+0.1 dB	1.94	
Body-worn	443	4	а	5	4.8	-0.187	4.68	A7	+0.4 dB	5.13	
IC (scaled with drift)											
Face-Held	470	2	а	N/A	5.14	-0.342	1.90	F5	+0.1 dB	2.10	

Notes:

1. Only the highest SAR values for face and body per frequency band are scaled.

2. The resulting value is the reported SAR.

3. The scaled SAR levels are below the FCC/IC Occupational SAR Limit of 8.0 W/kg.

4. Body-worn SAR is the same for FCC and IC, as the drift is less than 5% so the resulting SAR value does not need to be scaled with the drift.

### 9.0 SIMULTANEOUS TRANSMISSION ASSESSMENT

Co-transmitting Antennas: Manuf. Rated Output Power: Antenna-to-Antenna Distance: External UHF (378-470 MHz) and Internal Bluetooth (2402-2480 MHz) 1 mW (Bluetooth) 46.4 mm

	UHF-BAND PTT	MAX. SAR	SUM OF SAR LEVELS	FCC/IC SAR LIMIT	
	duty factor)	(BLUETOOTH)	(50% PTT duty factor)	(Occupational)	
Body-worn	5.13 W/kg (1g)	0.013 W/kg (1g) (Estimated SAR)	5.14 W/kg (1g)	8.0 W/kg (1g)	

Simultaneous transmission of the UHF band and Bluetooth was assessed in accordance with the procedures specified in FCC KDB 447498 (see reference [8]). The sum of the highest measured UHF SAR and the estimated Bluetooth SAR are below the limit.

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#### 10.0 SAR PROBE CALIBRATION & MEASUREMENT FREQUENCIES

The following procedures are recommended for to minimize probe calibration and tissue dielectric parameter discrepancies. In general, SAR measurements below 300 MHz should be within  $\pm$ 50 MHz of the probe calibration frequency. At 300 MHz to 6 GHz, measurements should be within  $\pm$ 100 MHz of the probe calibration frequency. Measurements exceeding 50% of these intervals,  $\pm$ 25 MHz < 300 MHz and  $\pm$ 50 MHz  $\geq$ 300 MHz, require additional steps (per FCC KDB 865664 D01v01 - see reference [15]).

Probe Calibration Freq.	Device Measurement Freq.	Frequency Interval	<u>+50</u> MHz <u>&gt;</u> 300 MHz						
	408 MHz	42 MHz	< 50 MHz <sup>1</sup>						
450 MHz	443 MHz	7 MHz	< 50 MHz <sup>1</sup>						
450 MITZ	458 MHz	8 MHz	< 50 MHz <sup>1</sup>						
470 MHz 20 MHz < 50 MHz <sup>1</sup>									
1. The probe calibration and measurement frequency interval is < 50 MHz; therefore the additional steps were not required.									

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### 11.0 DETAILS OF SAR EVALUATION

- 1. The number of test frequencies and the test channels selected for the SAR evaluations are in accordance with the procedures described in FCC KDB 447498 (see reference [8]).
- The DUT was evaluated for SAR in accordance with the procedures described in FCC KDB 643646 (see reference [9]).
- 3. The SAR evaluations were performed with a fully charged battery.
- 4. The SAR drift of the DUT was measured by the DASY4 system for the duration of the SAR evaluations. The measured SAR droop was added to the measured SAR levels to report scaled SAR levels as shown in the SAR test data tables. A SAR-versus-Time power droop evaluation was performed and is shown in Appendix A.
- 5. The fluid temperature remained within +/-2°C from the fluid dielectric parameter measurement to the completion of the SAR evaluation.
- 6. The dielectric parameters of the simulated tissue mixtures were measured prior to the SAR evaluations using a Dielectric Probe Kit and a Network Analyzer (see Appendix C).
- 7. The DUT was evaluated for SAR at the maximum conducted output power level preset by the manufacturer in unmodulated continuous transmit operation (Continuous Wave mode at 100% duty cycle) with the transmit key constantly depressed. For a push-to-talk device the 50% duty cycle compensation reported assumes a transmit/receive cycle of equal time base.
- 8. The Scan radio model differs from the System radio model in front keypad only. The scan radio was evaluated for the worst case configuration of each antenna and head/body test position from the system radio testing.

## **12.0 SAR EVALUATION PROCEDURES**

a. (i) The evaluation was performed in the applicable area of the phantom depending on the type of device being tested. For devices held to the ear during normal operation, both the left and right ear positions were evaluated using the SAM phantom.

(ii) For body-worn and face-held devices, a planar phantom was used.

b. The SAR was determined by a pre-defined procedure within the DASY4 software. Upon completion of a reference and optical surface check, the exposed region of the phantom was scanned near the inner surface with a grid spacing of 15mm x 15mm.

An area scan was determined as follows:

- c. Based on the defined area scan grid, a more detailed grid is created to increase the points by a factor of 10. The interpolation function then evaluates all field values between corresponding measurement points.
- d. A linear search is applied to find all the candidate maxima. Subsequently, all maxima are removed that are >2 dB from the global maximum. The remaining maxima are then used to position the cube scans.

A 1g and 10g spatial peak SAR was determined as follows:

- e. Extrapolation is used to find the points between the dipole center of the probe and the surface of the phantom. This data cannot be measured, since the center of the dipoles is 2.7 mm away from the tip of the probe and the distance between the surface and the lowest measuring point is 1.4 mm (see probe calibration document in Appendix F). The extrapolation was based on trivariate quadratics computed from the previously calculated 3D interpolated points nearest the phantom surface.
- f. Interpolated data is used to calculate the average SAR over 1g and 10g cubes by spatially discretizing the entire measured cube. The volume used to determine the averaged SAR is a 1mm grid (42875 interpolated points).
- g. A zoom scan volume of 30 mm x 30 mm x 30 mm (5 x 5 x 7 points) centered at the peak SAR location determined from the area scan is used for all zoom scans for devices with a transmit frequency < 800 MHz. Zoom scans for frequencies ≥ 800 MHz are determined with a scan volume of 30 mm x 30 mm x 30 mm (7 x 7 x 7) to ensure complete capture of the peak spatial-average SAR.

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### **13.0 SYSTEM PERFORMANCE CHECK**

Prior to the SAR evaluations, system checks were performed with a planar phantom and an 450 MHz SPEAG validation dipole (see Appendix B for system performance check test plots) in accordance with the procedures described in IEEE Standard 1528-2003 (see reference [5]). The dielectric parameters of the simulated tissue mixture were measured prior to the system performance check using a Dielectric Probe Kit and a Network Analyzer (see Appendix C for measured fluid dielectric parameters). A forward power of 398 mW was applied to the dipole and the system was verified to a tolerance of  $\pm 10\%$  from the system manufacturer's dipole calibration target SAR value (see Appendix E for system manufacturer's dipole calibration procedures).

				5	SYSTEM	I PERF	ORM	ANCE C	HECK	EVAL	UATIO	NS				
Test	Equiv. Tissue		SAR 1g (W/kg)		Dielec	tric Cons <sub>Er</sub>	stant		Conductivity σ (mho/m)		ρ.	Amb. Temp.	Fluid Temp.	Fluid Depth	Humid.	Barom. Press.
Date	Freq. (MHz)	SPEAG Target	Meas.	Dev.	SPEAG Target	Meas.	Dev.	SPEAG Target	Meas.	Dev.	(Kg/m³)	(°C)	(°C)	(cm)	(%)	(kPa)
May 30	Head 450	1.87 ±10%	1.93	+3.2%	43.5 ±5%	45.5	+4.6%	0.87 ±5%	0.88	+1.1%	1000	23.0	21.0	≥ 15	32	101.5
Jun 3	Body 450	1.81 ±10%	1.84	+1.7%	56.7 ±5%	57.4	+1.2%	0.94 ±5%	0.94	0.0%	1000	22.0	21.8	≥ 15	36	101.7
Jun 6	Body 450	1.81 ±10%	1.79	-1.1%	56.7 ±5%	56.5	-0.4%	0.94 ±5%	0.93	-1.1%	1000	22.0	21.9	≥ 15	31	101.3
	1.	The targe	et SAR va	lues are	the measur	ed value	s from th	e SAR syst	em manu	facturer's	s dipole ca	libration (s	see Apper	ıdix E).		
	2.	•						om the SAR	-				<u> </u>	. /		
Notes	3.		•		measured p ormance ch			he system	performa	nce chec	k evaluati	ons. The	fluid temp	erature re	mained wit	hin +/-
	4.						ue mixtur	re were me	asured pr	ior to the	e system p	performance	checkι	using a Di	electric Pro	be Kit
	*       and a Network Analyzer (see Appendix C).															
	Sys	tem Perfo	rmance C	heck Me	easuremen	nt Setup (	(IEEE St	andard 152	8-2003)			SPEAC	6 450 MH	z Validati	on Dipole	Setup

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## 14.0 SIMULATED EQUIVALENT TISSUES

The simulated equivalent tissue recipes in the table below are derived from the SAR system manufacturer's suggested recipes in the DASY4 manual (see references [10] and [11]) in accordance with the procedures and requirements specified in IEEE Standard 1528-2003 (see reference [5]). The ingredient percentage may have been adjusted minimally in order to achieve the appropriate target dielectric parameters within the specified tolerance.

SIMULATED TISSUE MIXTURES								
INGREDIENT	450 MHz HEAD	450 MHz BODY						
Water	38.56 %	52.00 %						
Sugar	56.32 %	45.65 %						
Salt	3.95 %	1.75 %						
HEC	0.98 %	0.50 %						
Bactericide	0.19 %	0.10 %						

## 15.0 SAR LIMITS

	SAR RF EXPOSU	RE LIMITS					
FCC 47 CFR 2.1093	Health Canada Safety Code 6	(General Population / Uncontrolled Exposure)	(Occupational / Controlled Exposure)				
	ial Average ver the whole body)	0.08 W/kg	0.4 W/kg				
	atial Peak er any 1 g of tissue)	1.6 W/kg	8.0 W/kg				
	atial Peak nkles averaged over 10 g)	4.0 W/kg	20.0 W/kg				
The Spatial Average value of	of the SAR averaged over the whole	body.					
The Spatial Peak value of the cube) and over the appropri	ne SAR averaged over any 1 gram o ate averaging time.	of tissue (defined as a tissue v	olume in the shape of a				
The Spatial Peak value of th a cube) and over the approp	ne SAR averaged over any 10 grams priate averaging time.	s of tissue (defined as a tissue	e volume in the shape of				
Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.							
	re defined as locations where th exposure and can exercise control of		f individuals who have				

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## **16.0 ROBOT SYSTEM SPECIFICATIONS**

Specifications	
Positioner	Stäubli Unimation Corp. Robot Model: RX60L
Repeatability	0.02 mm
No. of axis	6
Data Acquisition Electronic (DAE	) System
Cell Controller	
Processor	AMD Athlon XP 2400+
Clock Speed	2.0 GHz
Operating System	Windows XP Professional
Data Converter	
Features	Signal Amplifier, multiplexer, A/D converter, and control logic
Software	Measurement Software: DASY4, V4.7 Build 80
Soltwale	Postprocessing Software: SEMCAD, V1.8 Build 186
Connecting Lines	Optical downlink for data and status info., Optical uplink for commands and clock
DASY4 Measurement Server	
Function	Real-time data evaluation for field measurements and surface detection
Hardware	PC/104 166MHz Pentium CPU; 32 MB chipdisk; 64 MB RAM
Connections	COM1, COM2, DAE, Robot, Ethernet, Service Interface
E-Field Probe	
Model	ET3DV6
Serial No.	1590
Construction	Triangular core fiber optic detection system
Frequency	10 MHz to 6 GHz
Linearity	±0.2 dB (30 MHz to 3 GHz)
Phantom	
Туре	Barski Planar Phantom
Shell Material	Fiberglass
Thickness	2.0 ±0.1 mm
Volume	Approx. 70 liters

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### 17.0 PROBE SPECIFICATION (ET3DV6)

Construction:	Symmetrical design with triangular core; Built-in shielding against static charges	
Calibration:	PEEK enclosure material (resistant to organic solvents, glycol) In air from 10 MHz to 2.5 GHz	H
	In head simulating tissue at frequencies of 900 MHz	
Frequency:	and 1.8 GHz (accuracy ± 8%) 10 MHz to > 6 GHz; Linearity: ± 0.2 dB (30 MHz to 3 GHz)	
Directivity:	$\pm$ 0.2 dB in head tissue (rotation around probe axis)	
Directivity.	$\pm$ 0.4 dB in head tissue (rotation normal to probe axis)	
Dynamic Range:	5 $\mu$ W/g to > 100 mW/g; Linearity: ± 0.2 dB	
Surface Detect:	$\pm$ 0.2 mm repeatability in air and clear liquids over diffuse reflecting surfaces	
Dimensions:	Overall length: 330 mm; Tip length: 16 mm;	
	Body diameter: 12 mm; Tip diameter: 6.8 mm	
	Distance from probe tip to dipole centers: 2.7 mm	
Application:	General dosimetry up to 3 GHz; Compliance tests of mobile phone	ET3DV6 E-Field Probe

# 18.0 PHANTOM(S)

The Barski Planar Phantom is a fiberglass shell phantom with a 2.0 mm (+/-0.2mm) thick device measurement area at the center of the phantom for SAR evaluations of devices with a larger surface area than the planar section of the SAM phantom. The planar phantom is integrated in a wooden table. The planar phantom is used for SAR evaluations and system performance check evaluations. See Appendix G for dimensions and specifications of the Barski planar phantom.



**Barski Planar Phantom** 

#### **19.0 DEVICE HOLDER**

The DASY4 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of 65°. The bottom plate contains three pair of bolts for locking the device holder. The device holder positions are adjusted to the standard measurement positions in the three sections.



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# 20.0 TEST EQUIPMENT LIST

	TEST EQUIPMENT	ASSET NO.	SERIAL NO.	DATE	CALIBRATION	
USED	DESCRIPTION	ASSET NO.	SERIAL NO.	CALIBRATED	INTERVAL	
х	Schmid & Partner DASY4 System	-	-	-	-	
х	-DASY4 Measurement Server	00158	1078	CNR	CNR	
х	-Robot	00046	599396-01	CNR	CNR	
х	-DAE4	00019	353	19-Apr-12	Biennial	
х	-ET3DV6 E-Field Probe	00017	1590	24-Apr-13	Annual	
х	-D450V3 Validation Dipole	00221	1068	27-Apr-12	Triennial	
х	-Barski Planar Phantom	00155	03-01	CNR	CNR	
x	HP 85070C Dielectric Probe Kit	00033	none	CNR	CNR	
х	Gigatronics 8652A Power Meter	00007	1835272	03-May-12	Biennial	
x	Gigatronics 80701A Power Sensor	00014	1833542	03-May-12	Biennial	
х	Gigatronics 80334A Power Sensor	-	1837001	03-May-12	Biennial	
x	HP 8753ET Network Analyzer	00134	US39170292	26-Apr-12	Biennial	
x	Rohde & Schwarz SMR20 Signal Generator	00006	100104	02-May-12	Biennial	
х	Amplifier Research 5S1G4 Power Amplifier	00106	26235	CNR	CNR	
Abbr.	CNR = Calibration Not Required					

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# **21.0 MEASUREMENT UNCERTAINTIES**

UNCERTAINTY BUDGET FOR DEVICE EVALUATION (IEC 62209-2:2010)									
Source of Uncertainty	IEC 62209-2 Section	Tolerance / Uncertainty ±%	Probability Distribution	Divisor	ci 1g	ci 10g	Standard Uncertainty ±% (1g)	Standard Uncertainty ±% (10g)	V <sub>i</sub> or V <sub>eff</sub>
Measurement System									
Probe Calibration (450 MHz)	7.2.2.1	6.7	Normal	1	1	1	6.7	6.7	8
Isotropy	7.2.2.2	4.7	Rectangular	1.732050808	1	1	2.7	2.7	œ
Boundary Effect	7.2.2.6	1	Rectangular	1.732050808	1	1	0.6	0.6	œ
Linearity	7.2.2.3	4.7	Rectangular	1.732050808	1	1	2.7	2.7	œ
Detection Limits	7.2.2.5	1	Rectangular	1.732050808	1	1	0.6	0.6	œ
Readout Electronics	7.2.2.7	0.3	Normal	1	1	1	0.3	0.3	œ
Response Time	7.2.2.8	0.8	Rectangular	1.732050808	1	1	0.5	0.5	x
Integration Time	7.2.2.9	2.6	Rectangular	1.732050808	1	1	1.5	1.5	x
RF Ambient Conditions	7.2.4.5	3	Rectangular	1.732050808	1	1	1.7	1.7	×
Probe Positioner Mechanical Restrictions	7.2.3.1	0.4	Rectangular	1.732050808	1	1	0.2	0.2	×
Probe Positioning wrt Phantom Shell	7.2.3.3	2.9	Rectangular	1.732050808	1	1	1.7	1.7	œ
Post-processing	7.2.5	1	Rectangular	1.732050808	1	1	0.6	0.6	œ
Test Sample Related									
Test Sample Positioning	7.2.3.4.3	2.9	Normal	1	1	1	2.9	2.9	12
Device Holder Uncertainty	7.2.3.4.2	3.6	Normal	1	1	1	3.6	3.6	8
Drift of Output Power (meas. SAR drift)	7.2.2.10	0	Rectangular	1.732050808	1	1	0.0	0.0	œ
Phantom and Tissue Parameters									
Phantom Uncertainty	7.2.3.2	4	Rectangular	1.732050808	1	1	2.3	2.3	×
SAR Correction Algorithm for deviations in permittivity and conductivity	7.2.4.3	1.2	Normal	1	1	0.81	1.2	0.97	ø
Liquid Conductivity (measured)	7.2.4.3	4.26	Normal	1	0.78	0.71	3.3	3.0	×
Liquid Permittivity (measured)	7.2.4.3	5.06	Normal	1	0.23	0.26	1.2	1.3	
Liquid Permittivity - temp. uncertainty	7.2.4.4	0.27	Rectangular	1.732050808	0.78	0.71	0.1	0.1	
Liquid Conductivity - temp. uncertainty	7.2.4.4	0.84	Rectangular	1.732050808	0.23	0.26	0.1	0.1	~ ~
Combined Standard Uncertainty	7.3.1	0.01	RSS	1.70200000	0.20	0.20	10.47	10.37	
Expanded Uncertainty (95% Confidence Interval)	7.3.2		k=2				20.94	20.74	
		ty Table in acc		nternational Sta	ndard	EC 622		20.14	

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

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#### 22.0 REFERENCES

[1] Federal Communications Commission - "Radiofrequency radiation exposure evaluation: portable devices", Rule Part 47 CFR §2.1093.

[2] Health Canada - "Limits of Human Exposure to Radiofrequency Electromagnetic Fields in the Frequency Range from 3 kHz to 300 GHz", Safety Code 6: 1999.

[3] Federal Communications Commission - "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio frequency Electromagnetic Fields", OET Bulletin 65, Supplement C (Edition 01-01), FCC, Washington, D.C.: June 2001.

[4] Industry Canada - "Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)", Radio Standards Specification RSS-102 Issue 4: March 2010.

[5] IEEE Standard 1528-2003 - "Recommended Practice for Determining the Peak Spatial-Average Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques": December 2003.

[6] International Standard IEC 62209-2 Edition 1.0 2010-03 - "Human exposure to radio frequency fields from hand-held & body-mounted wireless communication devices - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)".

[7] IEC International Standard 62209-1:2005 - "Human exposure to radio frequency fields from hand-held and bodymounted wireless communication devices - Human models, instrumentation, and procedures."

[8] Federal Communications Commission, Office of Engineering and Technology - "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies"; KDB 447498 D01v05r01: May 2013.

[9] Federal Communications Commission, Office of Engineering and Technology - "SAR Test Reduction Considerations for Occupational PTT Radios", KDB 643646 D01v01r01: April 2011.

[10] Schmid & Partner Engineering AG - DASY4 Manual V4.6, Chapter 16 Application Note, Head Tissue Recipe: Sept. 2005.

[11] Schmid & Partner Engineering AG - DASY4 Manual V4.6, Chapter 17 Application Note, Body Tissue Recipe: Sept. 2005.

[12] ISO/IEC 17025 - "General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:2005)."

[13] Federal Communications Commission - "Measurements Required: RF Power Output"; Rule Part 47 CFR §2.1046.

[14] Industry Canada - "General Requirements and Information for the Certification of Radiocommunication Equipment", Radio Standards Specification RSS-Gen Issue 3: December 2010.

[15] Federal Communications Commission, Office of Engineering and Technology - "SAR Measurement Requirements for 100 MHz to 6 GHz"; KDB 865664 D01v01r01: May 2013.

Applicant:	HAF	RRIS Corporation	FCC ID: OWDTR-0141-E		IC:	3636B-0141		HARRIS	
DUT Type:	Por	Portable UHF Band PTT Radio Transceiver with Bluetooth					XG-25P UHF-L		
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