

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |

| DECLARATION OF COMPLIANCE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                     | SAR RF EXPOSURE EVALUATION                                          |                                      |                     |                                             | FCC & IC                           |                    |              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------|--------------------------------------|---------------------|---------------------------------------------|------------------------------------|--------------------|--------------|
| Test Lab Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Name                                                                                | CELLTECH LABS INC.                                                  |                                      |                     |                                             |                                    |                    |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Address                                                                             | 21-364 Lougheed Road, Kelowna, B.C. V1X 7R8 Canada                  |                                      |                     |                                             |                                    |                    |              |
| Test Lab Accreditation(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | ISO 17025                                                                           | A2LA Test Lab Certificate No. 2470.01                               |                                      |                     |                                             |                                    |                    |              |
| Applicant Information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Name                                                                                | HARRIS CORPORATION                                                  |                                      |                     |                                             |                                    |                    |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Address                                                                             | 221 Jefferson Ridge Parkway, Lynchburg, VA 24501 U.S.A.             |                                      |                     |                                             |                                    |                    |              |
| Standard(s) Applied                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FCC                                                                                 | 47 CFR §2.1093                                                      |                                      |                     |                                             |                                    |                    |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC                                                                                  | Health Canada Safety Code 6                                         |                                      |                     |                                             |                                    |                    |              |
| Procedure(s) Applied                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FCC                                                                                 | OET Bulletin 65, Supp. C                                            |                                      | KDB 447498 D01v04   |                                             | KDB 643646 D01v01r01               |                    |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC                                                                                  | RSS-102 Issue 4                                                     |                                      | IEEE                | 1528-2003                                   |                                    | IEC                | 62209-2:2010 |
| Device Classification(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | FCC                                                                                 | Licensed Non-Broadcast Transmitter Held to Face (TNF) - FCC Part 90 |                                      |                     |                                             |                                    |                    |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC                                                                                  | Land Mobile Radio Transmitter/Receiver (27.41-960 MHz) - RSS-119    |                                      |                     |                                             |                                    |                    |              |
| Device Identifier(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | FCC ID:                                                                             | OWDTR-0073-E                                                        |                                      |                     | IC:                                         | 3636B-0073                         |                    |              |
| Application Type(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | FCC                                                                                 | Part 90 Certification                                               |                                      |                     |                                             |                                    |                    |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC                                                                                  | RSS-119 Certification                                               |                                      |                     |                                             |                                    |                    |              |
| Date of Sample Receipt                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | August 27, 2012                                                                     |                                                                     |                                      |                     |                                             |                                    |                    |              |
| Dates of Evaluation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | September 04-07, 2012                                                               |                                                                     |                                      |                     |                                             |                                    |                    |              |
| Device Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Portable 700/800-Band Digital Push-To-Talk (PTT) Radio Transceiver with Bluetooth   |                                                                     |                                      |                     |                                             |                                    |                    |              |
| Device Name / Model(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | XG-25P 7/800 System                                                                 | Model: DPXG-PF78B                                                   |                                      |                     | P/N: 14011-0020-01                          |                                    | DTMF Keypad        |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | XG-25P 7/800 Scan                                                                   | Model: DPXG-PB78B                                                   |                                      |                     | P/N: 14011-0020-02                          |                                    | Limited Keypad     |              |
| Test Sample Serial No.(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | XG-25P System - S/N: 14 (identical prototype)                                       |                                                                     |                                      |                     | XG-25P Scan - S/N: 35 (identical prototype) |                                    |                    |              |
| Test Sample Revision No.s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Hardware                                                                            | Rev. -                                                              |                                      |                     | Firmware                                    | R16A10                             |                    |              |
| Transmit Frequency Range(s)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | FCC                                                                                 | 764-776 MHz                                                         |                                      | 794-805 MHz         |                                             | 806-824 MHz                        |                    | 851-869 MHz  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC                                                                                  | 768-776 MHz                                                         |                                      | 798-805 MHz         |                                             | 806-824 MHz                        |                    | 851-869 MHz  |
| Manufacturer's Rated Output Power                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 700 Band                                                                            | 2.9 Watts Nominal (Conducted)                                       |                                      |                     | Upper Tolerance Spec.                       |                                    | + 0.05 Watts       |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 800 Band                                                                            | 3.0 Watts Nominal (Conducted)                                       |                                      |                     | Upper Tolerance Spec.                       |                                    | + 0.23 Watts       |              |
| Co-located Transmitters)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Bluetooth (Class 2)                                                                 |                                                                     | Nominal Output Power: 2.5 mW (Cond.) |                     |                                             | Freq. Range: 2402-2480 MHz         |                    |              |
| Antenna Type(s) Tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | See manufacturer's accessory listing (Section 5.0)                                  |                                                                     |                                      |                     |                                             |                                    |                    |              |
| Battery Type(s) Tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | See manufacturer's accessory listing (Section 5.0)                                  |                                                                     |                                      |                     |                                             |                                    |                    |              |
| Body-worn Accessories Tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | See manufacturer's accessory listing (Section 5.0)                                  |                                                                     |                                      |                     |                                             |                                    |                    |              |
| Audio Accessories Tested                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | See manufacturer's accessory listing (Section 5.0)                                  |                                                                     |                                      |                     |                                             |                                    |                    |              |
| Max. SAR Level(s) Evaluated                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Face-held                                                                           | 1.63 W/kg                                                           | 1g                                   | 50% PTT duty factor |                                             | Occupational / Controlled Exposure |                    |              |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Body-worn                                                                           | 3.62 W/kg                                                           | 1g                                   | 50% PTT duty factor |                                             | Occupational / Controlled Exposure |                    |              |
| FCC/IC Spatial Peak SAR Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Head/Body                                                                           | 8.0 W/kg                                                            | 1g                                   | 50% PTT duty factor |                                             | Occupational / Controlled 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 OET Bulletin 65, Supplement C (Edition 01-01), Industry Canada RSS-102 Issue 4, IEEE Standard 1528-2003 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |                                                                     | Sean Johnston                        |                     | Lab Manager                                 |                                    | Celltech Labs Inc. |              |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 1 of 208                                                                         |

| TABLE OF CONTENTS                                                        |     |
|--------------------------------------------------------------------------|-----|
| 1.0 INTRODUCTION                                                         | 4   |
| 2.0 SAR MEASUREMENT SYSTEM                                               | 4   |
| 3.0 RF CONDUCTED OUTPUT POWER MEASUREMENTS                               | 5   |
| 4.0 NO. OF TEST CHANNELS ( $N_c$ )                                       | 5   |
| 5.0 MANUFACTURER'S DISCLOSED ACCESSORY LISTING                           | 6   |
| 6.0 FLUID DIELECTRIC PARAMETERS                                          | 8   |
| 7.0 SAR TEST REDUCTION PROCEDURES APPLIED (FCC KDB 643646 D01V01R01)     | 12  |
| 8.0 SAR TEST REDUCTION PROCEDURES - SCAN MODEL (FCC KDB INQ. #235657)    | 13  |
| 9.0 SAR MEASUREMENT SUMMARY                                              | 14  |
| 10.0 SAR SCALING (TUNE-UP TOLERANCE)                                     | 32  |
| 11.0 SIMULTANEOUS TRANSMISSION ASSESSMENT                                | 32  |
| 12.0 SAR PROBE CALIBRATION & MEASUREMENT FREQUENCIES                     | 33  |
| 13.0 SAR LEVEL CORRECTION FOR FLUID DEVIATION (IC RSS-102 / IEC 62209-2) | 34  |
| 14.0 DETAILS OF SAR EVALUATION                                           | 35  |
| 15.0 SAR EVALUATION PROCEDURES                                           | 35  |
| 16.0 SYSTEM PERFORMANCE CHECK                                            | 36  |
| 17.0 SIMULATED EQUIVALENT TISSUES                                        | 37  |
| 18.0 SAR LIMITS                                                          | 37  |
| 19.0 ROBOT SYSTEM SPECIFICATIONS                                         | 38  |
| 20.0 PROBE SPECIFICATION (ET3DV6)                                        | 39  |
| 21.0 PHANTOM(S)                                                          | 39  |
| 22.0 DEVICE HOLDER                                                       | 39  |
| 23.0 TEST EQUIPMENT LIST                                                 | 40  |
| 24.0 MEASUREMENT UNCERTAINTIES                                           | 41  |
| MEASUREMENT UNCERTAINTIES (CONT.)                                        | 42  |
| 25.0 REFERENCES                                                          | 43  |
| APPENDIX A - SAR MEASUREMENT PLOTS                                       | 44  |
| APPENDIX B - SYSTEM PERFORMANCE CHECK PLOTS                              | 146 |
| APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS                        | 153 |
| APPENDIX D - SAR TEST SETUP & DUT PHOTOGRAPHS                            | 158 |
| APPENDIX E - DIPOLE CALIBRATION                                          | 204 |
| APPENDIX F - PROBE CALIBRATION                                           | 205 |
| APPENDIX G - BARSKI PLANAR PHANTOM CERTIFICATE OF CONFORMITY             | 206 |
| APPENDIX H - SAM TWIN PHANTOM CERTIFICATE OF CONFORMITY                  | 207 |
| APPENDIX I - AUDIO ACCESSORY COMBINATIONS (FCC KDB 643646 D01V01R01)     | 208 |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

#### REVISION HISTORY

| REVISION NO. | DESCRIPTION | IMPLEMENTED BY | RELEASE DATE       |
|--------------|-------------|----------------|--------------------|
| 1.0          | 1st Release | Jon Hughes     | September 20, 2012 |

#### TEST REPORT SIGN-OFF

| DEVICE TESTED BY | REPORT PREPARED BY | QA REVIEW BY | REPORT APPROVED BY |
|------------------|--------------------|--------------|--------------------|
| Mike Meaker      | Cheri Frangiadakis | Jon Hughes   | Sean Johnston      |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 3 of 208                                                                         |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |
| Test Lab Certificate No. 2470.01                                                 |                                                       |                                                           |                                                           |                                                                                    |

## 1.0 INTRODUCTION

This measurement report demonstrates that the HARRIS Corporation XG-25P 7/800 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.

## 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 Electro-optical 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.



DASY4 SAR Measurement System with Side Planar Phantom



DASY4 Measurement System with Barski Planar Phantom

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 4 of 208                                                                         |

|                                                                                                                          |                                                       |                                                           |                                                           |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

### 3.0 RF CONDUCTED OUTPUT POWER MEASUREMENTS

| MEASURED RF CONDUCTED OUTPUT POWER LEVELS                                                                                                                                                                                                                                                                                     |      |            |             |            |       |      |                   |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|------------|-------------|------------|-------|------|-------------------|
| Radio                                                                                                                                                                                                                                                                                                                         | Mode | Freq. Band |             | Test Freq. | Watts | dBm  | Method            |
| System                                                                                                                                                                                                                                                                                                                        | CW   | 1          | 764-776 MHz | 764.0      | 2.90  | 34.6 | Average Conducted |
|                                                                                                                                                                                                                                                                                                                               |      |            |             | 776.0      | 2.95  | 34.7 |                   |
|                                                                                                                                                                                                                                                                                                                               |      | 2          | 794-806 MHz | 794.0      | 2.93  | 34.7 |                   |
|                                                                                                                                                                                                                                                                                                                               |      |            |             | 805.0      | 2.90  | 34.6 |                   |
|                                                                                                                                                                                                                                                                                                                               |      | 3          | 806-825 MHz | 806.0      | 3.20  | 35.1 |                   |
|                                                                                                                                                                                                                                                                                                                               |      |            |             | 824.0      | 3.20  | 35.1 |                   |
|                                                                                                                                                                                                                                                                                                                               |      | 4          | 851-870 MHz | 851.0      | 3.16  | 35.0 |                   |
|                                                                                                                                                                                                                                                                                                                               |      |            |             | 869.0      | 3.20  | 35.1 |                   |
| Scan                                                                                                                                                                                                                                                                                                                          | CW   | 1          | 764-776 MHz | 764.0      | 2.93  | 34.7 | Average Conducted |
|                                                                                                                                                                                                                                                                                                                               |      |            |             | 776.0      | 2.96  | 34.7 |                   |
|                                                                                                                                                                                                                                                                                                                               |      | 2          | 794-806 MHz | 794.0      | 2.90  | 34.6 |                   |
|                                                                                                                                                                                                                                                                                                                               |      |            |             | 805.0      | 2.95  | 34.7 |                   |
|                                                                                                                                                                                                                                                                                                                               |      | 3          | 806-825 MHz | 806.0      | 3.20  | 35.1 |                   |
|                                                                                                                                                                                                                                                                                                                               |      |            |             | 824.0      | 3.19  | 35.0 |                   |
|                                                                                                                                                                                                                                                                                                                               |      | 4          | 851-870 MHz | 851.0      | 3.13  | 35.0 |                   |
|                                                                                                                                                                                                                                                                                                                               |      |            |             | 869.0      | 3.17  | 35.0 |                   |
| Notes                                                                                                                                                                                                                                                                                                                         |      |            |             |            |       |      |                   |
| 1. The test channels were selected in accordance with the procedures specified in FCC KDB 447498 Section 6) c) (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 [14]) and IC RSS-Gen (see reference [15]). |      |            |             |            |       |      |                   |

### 4.0 NO. OF TEST CHANNELS ( $N_c$ )

| Antenna Part No.                                                                                                                                             |               | Antenna Type  | Antenna Freq. Range | $N_c$ | Test Frequencies (MHz)                                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|---------------|---------------------|-------|--------------------------------------------------------|
| 1                                                                                                                                                            | KRE 101 506/1 | 1/2-wave      | 764 - 870 MHz       | 8     | 764.0, 776.0, 794.0, 805.0, 806.0, 824.0, 851.0, 869.0 |
| 2                                                                                                                                                            | KRE 101 506/2 | Wideband Whip | 764 - 870 MHz       | 8     | 764.0, 776.0, 794.0, 805.0, 806.0, 824.0, 851.0, 869.0 |
| Note: The number of test channels ( $N_c$ ) were calculated in accordance with the procedures specified in FCC KDB 447498 Section 6) c) (see reference [8]). |               |               |                     |       |                                                        |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |

Test Lab Certificate No. 2470.01

## 5.0 MANUFACTURER'S DISCLOSED ACCESSORY LISTING

| Accessory ID #<br>for Test Report | ACCESSORY CATEGORY: ANTENNA   |                                                                                                                                                                     |                 |
|-----------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|
|                                   | Part Number                   | Description                                                                                                                                                         | SAR Evaluation  |
| 1                                 | KRE 101 1506/1                | ½ - wave (764-870 MHz), 2 dBi gain                                                                                                                                  | Yes             |
| 2                                 | KRE 101 1506/2                | Wideband whip (764-870 MHz), 0 dBi gain                                                                                                                             | Yes             |
| Accessory ID #<br>for Test Report | ACCESSORY CATEGORY: BATTERY   |                                                                                                                                                                     |                 |
|                                   | Part Number                   | Description                                                                                                                                                         | SAR Evaluation  |
| a                                 | BT-023406-003                 | Ni-MH, immersible, non-IS, 7.5V, 2400mAh                                                                                                                            | Yes             |
| b                                 | BT-023406-004                 | Ni-MH, immersible, <IS> (7.5V, 2400mAh)                                                                                                                             | Yes             |
| c                                 | BT-023406-005                 | Li-ion, immersible, non-IS (7.4V, 2000mAh)                                                                                                                          | Yes             |
| d                                 | BT-023436-001                 | Lithium-polymer, immersible, non-IS (7.4V, 3000mAh)                                                                                                                 | Yes             |
| Accessory ID #<br>for Test Report | ACCESSORY CATEGORY: BODY-WORN |                                                                                                                                                                     |                 |
|                                   | 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, KRY1011608/2 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), KRY1011608/2 Swivel Mount & CC-014524-001 BEE Shoulder Strap | Yes             |
| 5                                 | CC23894                       | Metal Belt Clip (Standard)                                                                                                                                          | Yes             |
| 6                                 | FM-017262-001<br>CC-014527    | Swivel Mount<br>Belt Loop, Leather (BEE)                                                                                                                            | Yes             |

See next page for audio accessory listing

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 6 of 208                                                                         |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |

Test Lab Certificate No. 2470.01

| Accessory ID #<br>for Test Report | ACCESSORY CATEGORY: AUDIO |                                                  |                               |                 |
|-----------------------------------|---------------------------|--------------------------------------------------|-------------------------------|-----------------|
|                                   | Part Number               | Description                                      | Audio Accessory Grouping      | SAR Evaluation  |
| G1a                               | EA-009580-010             | Headset, heavy duty, N/C behind the head, w/ PTT | Group 1 (Heavy Duty headset)  | No <sup>3</sup> |
| G1b                               | EA-009580-013             | Headset, heavy duty, N/C over the head, w/ PTT   |                               | No <sup>3</sup> |
| G2                                | EA-009580-008             | Lightweight headset single spkr w/ PTT           | Group 2 (Lightweight headset) | No <sup>3</sup> |
| G3a                               | EA-009580-009             | Breeze Headset w/ PTT                            | Group 3 (Breeze headset)      | Yes             |
| G3b                               | EA-009580-016             | Breeze headset w/ PTT & pigtail jack             |                               | No <sup>3</sup> |
| G4                                | EA-009580-007             | Explorer Headset w/ PTT                          | Group 4 (Explorer headset)    | No <sup>3</sup> |
| G5                                | EA-009580-011             | Ranger Headset w/ PTT                            | Group 5 (Ranger headset)      | No <sup>3</sup> |
| G6a                               | EA-009580-017             | Hurricane headset w/ PTT                         | Group 6 (Hurricane headset)   | No <sup>3</sup> |
| G6b                               | EA-009580-018             | Hurricane headset w/ PTT & pigtail jack          |                               | No <sup>3</sup> |
| G7a                               | MC-023933-001             | Speaker-Mic, No Ant. (cc), <IS>                  | Group 7 (Speaker Mic)         | No <sup>3</sup> |
| G7b                               | MC-009104-002             | Speaker-Mic, GPS, non-IS                         |                               | No <sup>3</sup> |
| G7c                               | MC-011617-601             | Ruggedized Speaker Mic-Coil Cord                 |                               | No <sup>3</sup> |
| G7d                               | MC-011617-701             | Standard Speaker Mic - Non Ant                   |                               | No <sup>3</sup> |
| G8a                               | EA-009580-003             | 2-Wire Kit, Palm mic, Black                      | Group 8 (Palm mic)            | No <sup>3</sup> |
| G8b                               | EA-009580-004             | 2-Wire Kit, Palm mic, Beige                      |                               | No <sup>2</sup> |
| G9a                               | EA-009580-005             | 3-Wire Kit, Mini-Lapel Mic, Black                | Group 9 (Lapel mic)           | No <sup>3</sup> |
| G9b                               | EA-009580-006             | 3-Wire Kit, Mini-Lapel Mic, Beige                |                               | No <sup>2</sup> |
| G10                               | EA-009580-012             | Skull mic w/body PTT & earcup                    | Group 10 (Skull mic)          | No <sup>3</sup> |
| G11a                              | EA-009580-014             | Throat mic w/acoustic tube & body PTT            | Group 11 (Throat mic)         | No <sup>3</sup> |
| G11b                              | EA-009580-015             | Throat mic w/acoustic tube, body PTT, & ring PTT |                               | No <sup>3</sup> |
| G12a                              | EA-009580-001             | Earphone Kit, Black                              | Group 12 (Earphone)           | No <sup>3</sup> |
| G12b                              | EA-009580-002             | Earphone Kit, Beige                              |                               | No <sup>2</sup> |

**Manufacturer's disclosed accessory listing information provided by HARRIS Corporation**

| Footnotes                                                                                                                                                             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Body-worn accessory #2 is identical to body-worn accessory #1 except for color difference.                                                                         |
| 2. Audio accessories #G8b, #G9b and #G12b are identical to audio accessories #G8a, #G9a and #G12a respectively except for color difference.                           |
| 3. Audio accessories were not evaluated for SAR in accordance with the procedures and provisions of FCC KDB 643646 D01v01r01 (Page 10 Section 1) - see reference [9]. |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 7 of 208                                                                         |

## 6.0 FLUID DIELECTRIC PARAMETERS

| FLUID DIELECTRIC PARAMETERS |        |                    |          |          |                        |                        |
|-----------------------------|--------|--------------------|----------|----------|------------------------|------------------------|
| Date: 09/04/2012            |        | Frequency: 835 MHz |          |          | Tissue: Body           |                        |
| Freq                        | Test e | Test s             | Target e | Target s | Deviation Permittivity | Deviation Conductivity |
| 0.735                       | 56.14  | 0.86               | 55.2     | 0.97     | 1.70%                  | -11.34%                |
| 0.745                       | 56.01  | 0.88               | 55.2     | 0.97     | 1.47%                  | -9.28%                 |
| 0.755                       | 55.85  | 0.89               | 55.2     | 0.97     | 1.18%                  | -8.25%                 |
| 0.765                       | 55.68  | 0.91               | 55.2     | 0.97     | 0.87%                  | -6.19%                 |
| 0.775                       | 55.79  | 0.91               | 55.2     | 0.97     | 1.07%                  | -6.19%                 |
| 0.776*                      | 55.8   | 0.911              | 55.2     | 0.97     | 1.09%                  | -6.08%                 |
| 0.785                       | 55.7   | 0.92               | 55.2     | 0.97     | 0.91%                  | -5.15%                 |
| 0.794*                      | 55.5   | 0.92               | 55.2     | 0.97     | 0.54%                  | -5.15%                 |
| 0.795                       | 55.49  | 0.92               | 55.2     | 0.97     | 0.53%                  | -5.15%                 |
| 0.805                       | 55.31  | 0.93               | 55.2     | 0.97     | 0.20%                  | -4.12%                 |
| 0.815                       | 55.39  | 0.94               | 55.2     | 0.97     | 0.34%                  | -3.09%                 |
| 0.824*                      | 55.4   | 0.958              | 55.2     | 0.97     | 0.36%                  | -1.24%                 |
| 0.825                       | 55.42  | 0.96               | 55.2     | 0.97     | 0.40%                  | -1.03%                 |
| 0.835                       | 55.21  | 0.96               | 55.2     | 0.97     | 0.02%                  | -1.03%                 |
| 0.845                       | 54.87  | 0.96               | 55.2     | 0.97     | -0.60%                 | -1.03%                 |
| 0.855                       | 54.95  | 0.98               | 55.2     | 0.97     | -0.45%                 | 1.03%                  |
| 0.865                       | 54.78  | 1                  | 55.2     | 0.97     | -0.76%                 | 3.09%                  |
| 0.869*                      | 54.8   | 1                  | 55.2     | 0.97     | -0.72%                 | 3.09%                  |
| 0.875                       | 54.83  | 1.01               | 55.2     | 0.97     | -0.67%                 | 4.12%                  |
| 0.885                       | 54.81  | 1.02               | 55.2     | 0.97     | -0.71%                 | 5.15%                  |
| 0.895                       | 54.71  | 1.03               | 55.2     | 0.97     | -0.89%                 | 6.19%                  |
| 0.905                       | 54.39  | 1.05               | 55.2     | 0.97     | -1.47%                 | 8.25%                  |
| 0.915                       | 54.37  | 1.04               | 55.2     | 0.97     | -1.50%                 | 7.22%                  |
| 0.925                       | 54.4   | 1.06               | 55.2     | 0.97     | -1.45%                 | 9.28%                  |
| 0.935                       | 54.43  | 1.07               | 55.2     | 0.97     | -1.39%                 | 10.31%                 |

\*interpolated using DASY4 software

| Test Date | Fluid Type | Ambient Temperature | Fluid Temperature | Fluid Depth | Atmospheric Pressure | Relative Humidity | $\rho$ (Kg/m <sup>3</sup> ) |
|-----------|------------|---------------------|-------------------|-------------|----------------------|-------------------|-----------------------------|
| Sep 4     | 835 Body   | 23.0°C              | 22.5°C            | ≥ 15 cm     | 101.1 kPa            | 34%               | 1000                        |

| FLUID DIELECTRIC PARAMETERS |        |                    |          |          |                        |                        |
|-----------------------------|--------|--------------------|----------|----------|------------------------|------------------------|
| Date: 09/05-06/2012         |        | Frequency: 835 MHz |          |          | Tissue: Body           |                        |
| Freq                        | Test e | Test s             | Target e | Target s | Deviation Permittivity | Deviation Conductivity |
| 0.735                       | 56.14  | 0.87               | 55.2     | 0.97     | 1.70%                  | -10.31%                |
| 0.745                       | 56.05  | 0.89               | 55.2     | 0.97     | 1.54%                  | -8.25%                 |
| 0.755                       | 55.66  | 0.89               | 55.2     | 0.97     | 0.83%                  | -8.25%                 |
| 0.765                       | 55.91  | 0.91               | 55.2     | 0.97     | 1.29%                  | -6.19%                 |
| 0.775                       | 55.72  | 0.91               | 55.2     | 0.97     | 0.94%                  | -6.19%                 |
| 0.776*                      | 55.7   | 0.912              | 55.2     | 0.97     | 0.91%                  | -5.98%                 |
| 0.785                       | 55.62  | 0.93               | 55.2     | 0.97     | 0.76%                  | -4.12%                 |
| 0.794*                      | 55.6   | 0.948              | 55.2     | 0.97     | 0.72%                  | -2.27%                 |
| 0.795                       | 55.59  | 0.95               | 55.2     | 0.97     | 0.71%                  | -2.06%                 |
| 0.805                       | 55.11  | 0.95               | 55.2     | 0.97     | -0.16%                 | -2.06%                 |
| 0.815                       | 55.37  | 0.96               | 55.2     | 0.97     | 0.31%                  | -1.03%                 |
| 0.824*                      | 55.4   | 0.96               | 55.2     | 0.97     | 0.36%                  | -1.03%                 |
| 0.825                       | 55.37  | 0.96               | 55.2     | 0.97     | 0.31%                  | -1.03%                 |
| 0.835                       | 55.3   | 0.98               | 55.2     | 0.97     | 0.18%                  | 1.03%                  |
| 0.845                       | 55.18  | 0.98               | 55.2     | 0.97     | -0.04%                 | 1.03%                  |
| 0.855                       | 55.02  | 1                  | 55.2     | 0.97     | -0.33%                 | 3.09%                  |
| 0.865                       | 55.08  | 1                  | 55.2     | 0.97     | -0.22%                 | 3.09%                  |
| 0.869*                      | 54.9   | 1                  | 55.2     | 0.97     | -0.54%                 | 3.09%                  |
| 0.875                       | 54.6   | 1.01               | 55.2     | 0.97     | -1.09%                 | 4.12%                  |
| 0.885                       | 54.7   | 1.02               | 55.2     | 0.97     | -0.91%                 | 5.15%                  |
| 0.895                       | 54.76  | 1.05               | 55.2     | 0.97     | -0.80%                 | 8.25%                  |
| 0.905                       | 54.66  | 1.05               | 55.2     | 0.97     | -0.98%                 | 8.25%                  |
| 0.915                       | 54.55  | 1.06               | 55.2     | 0.97     | -1.18%                 | 9.28%                  |
| 0.925                       | 54.45  | 1.07               | 55.2     | 0.97     | -1.36%                 | 10.31%                 |
| 0.935                       | 54.11  | 1.08               | 55.2     | 0.97     | -1.97%                 | 11.34%                 |

\*interpolated using DASY4 software

| Test Date | Fluid Type | Ambient Temperature | Fluid Temperature | Fluid Depth | Atmospheric Pressure | Relative Humidity | $\rho$ (Kg/m <sup>3</sup> ) |
|-----------|------------|---------------------|-------------------|-------------|----------------------|-------------------|-----------------------------|
| Sep 5     | 835 Body   | 23.0°C              | 22.3°C            | ≥ 15 cm     | 101.1 kPa            | 30%               | 1000                        |
| Sep 6     | 835 Body   | 23.0°C              | 21.5°C            | ≥ 15 cm     | 101.1 kPa            | 30%               | 1000                        |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |

Test Lab Certificate No. 2470.01

| FLUID DIELECTRIC PARAMETERS |        |                    |          |          |                        |                        |
|-----------------------------|--------|--------------------|----------|----------|------------------------|------------------------|
| Date: 09/07/2012            |        | Frequency: 835 MHz |          |          | Tissue: Body           |                        |
| Freq                        | Test e | Test s             | Target e | Target s | Deviation Permittivity | Deviation Conductivity |
| 0.735                       | 54.88  | 0.85               | 55.2     | 0.97     | -0.58%                 | -12.37%                |
| 0.745                       | 55.28  | 0.88               | 55.2     | 0.97     | 0.14%                  | -9.28%                 |
| 0.755                       | 55     | 0.88               | 55.2     | 0.97     | -0.36%                 | -9.28%                 |
| 0.765                       | 54.83  | 0.89               | 55.2     | 0.97     | -0.67%                 | -8.25%                 |
| 0.775                       | 54.87  | 0.9                | 55.2     | 0.97     | -0.60%                 | -7.22%                 |
| 0.785                       | 54.95  | 0.91               | 55.2     | 0.97     | -0.45%                 | -6.19%                 |
| 0.794*                      | 54.8   | 0.928              | 55.2     | 0.97     | -0.72%                 | -4.33%                 |
| 0.795                       | 54.8   | 0.93               | 55.2     | 0.97     | -0.72%                 | -4.12%                 |
| 0.805                       | 54.37  | 0.94               | 55.2     | 0.97     | -1.50%                 | -3.09%                 |
| 0.815                       | 54.66  | 0.95               | 55.2     | 0.97     | -0.98%                 | -2.06%                 |
| 0.824*                      | 54.4   | 0.95               | 55.2     | 0.97     | -1.45%                 | -2.06%                 |
| 0.825                       | 54.37  | 0.95               | 55.2     | 0.97     | -1.50%                 | -2.06%                 |
| 0.835                       | 54.24  | 0.96               | 55.2     | 0.97     | -1.74%                 | -1.03%                 |
| 0.845                       | 54.23  | 0.98               | 55.2     | 0.97     | -1.76%                 | 1.03%                  |
| 0.855                       | 53.82  | 0.98               | 55.2     | 0.97     | -2.50%                 | 1.03%                  |
| 0.865                       | 53.93  | 0.99               | 55.2     | 0.97     | -2.30%                 | 2.06%                  |
| 0.875                       | 53.63  | 1                  | 55.2     | 0.97     | -2.84%                 | 3.09%                  |
| 0.885                       | 53.66  | 1.03               | 55.2     | 0.97     | -2.79%                 | 6.19%                  |
| 0.895                       | 53.69  | 1.03               | 55.2     | 0.97     | -2.74%                 | 6.19%                  |
| 0.905                       | 53.31  | 1.03               | 55.2     | 0.97     | -3.42%                 | 6.19%                  |
| 0.915                       | 53.66  | 1.05               | 55.2     | 0.97     | -2.79%                 | 8.25%                  |
| 0.925                       | 53.3   | 1.06               | 55.2     | 0.97     | -3.44%                 | 9.28%                  |
| 0.935                       | 53.25  | 1.06               | 55.2     | 0.97     | -3.53%                 | 9.28%                  |

\*interpolated using DASY4 software

| Test Date | Fluid Type | Ambient Temperature | Fluid Temperature | Fluid Depth | Atmospheric Pressure | Relative Humidity | $\rho$ (Kg/m <sup>3</sup> ) |
|-----------|------------|---------------------|-------------------|-------------|----------------------|-------------------|-----------------------------|
| Sep 7     | 835 Body   | 23.0°C              | 22.5°C            | ≥ 15 cm     | 101.1 kPa            | 30%               | 1000                        |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 10 of 208                                                                        |

|                                                                                                                          |                                                       |                                                           |                                                           |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

| FLUID DIELECTRIC PARAMETERS |        |                    |          |          |                        |                        |
|-----------------------------|--------|--------------------|----------|----------|------------------------|------------------------|
| Date: 09/07/2012            |        | Frequency: 835 MHz |          |          | Tissue: Head           |                        |
| Freq                        | Test e | Test s             | Target e | Target s | Deviation Permittivity | Deviation Conductivity |
| 0.735                       | 42.95  | 0.78               | 41.5     | 0.9      | 3.49%                  | -13.33%                |
| 0.745                       | 43.2   | 0.8                | 41.5     | 0.9      | 4.10%                  | -11.11%                |
| 0.755                       | 43.18  | 0.81               | 41.5     | 0.9      | 4.05%                  | -10.00%                |
| 0.765                       | 42.59  | 0.82               | 41.5     | 0.9      | 2.63%                  | -8.89%                 |
| 0.775                       | 42.79  | 0.84               | 41.5     | 0.9      | 3.11%                  | -6.67%                 |
| 0.776*                      | 42.8   | 0.841              | 41.5     | 0.9      | 3.13%                  | -6.56%                 |
| 0.785                       | 42.58  | 0.85               | 41.5     | 0.9      | 2.60%                  | -5.56%                 |
| 0.794*                      | 42.5   | 0.85               | 41.5     | 0.9      | 2.41%                  | -5.56%                 |
| 0.795                       | 42.52  | 0.85               | 41.5     | 0.9      | 2.46%                  | -5.56%                 |
| 0.805                       | 42.49  | 0.87               | 41.5     | 0.9      | 2.39%                  | -3.33%                 |
| 0.815                       | 42.57  | 0.88               | 41.5     | 0.9      | 2.58%                  | -2.22%                 |
| 0.824*                      | 42.3   | 0.88               | 41.5     | 0.9      | 1.93%                  | -2.22%                 |
| 0.825                       | 42.24  | 0.88               | 41.5     | 0.9      | 1.78%                  | -2.22%                 |
| 0.835                       | 42.07  | 0.88               | 41.5     | 0.9      | 1.37%                  | -2.22%                 |
| 0.845                       | 41.87  | 0.91               | 41.5     | 0.9      | 0.89%                  | 1.11%                  |
| 0.855                       | 41.74  | 0.92               | 41.5     | 0.9      | 0.58%                  | 2.22%                  |
| 0.865                       | 41.39  | 0.92               | 41.5     | 0.9      | -0.27%                 | 2.22%                  |
| 0.869*                      | 41.3   | 0.924              | 41.5     | 0.9      | -0.48%                 | 2.67%                  |
| 0.875                       | 41.06  | 0.93               | 41.5     | 0.9      | -1.06%                 | 3.33%                  |
| 0.885                       | 41.44  | 0.94               | 41.5     | 0.9      | -0.14%                 | 4.44%                  |
| 0.895                       | 41.13  | 0.95               | 41.5     | 0.9      | -0.89%                 | 5.56%                  |
| 0.905                       | 41.08  | 0.95               | 41.5     | 0.9      | -1.01%                 | 5.56%                  |
| 0.915                       | 40.97  | 0.98               | 41.5     | 0.9      | -1.28%                 | 8.89%                  |
| 0.925                       | 40.76  | 0.97               | 41.5     | 0.9      | -1.78%                 | 7.78%                  |
| 0.935                       | 40.96  | 0.98               | 41.5     | 0.9      | -1.30%                 | 8.89%                  |

\*interpolated using DASY4 software

| Test Date | Fluid Type | Ambient Temperature | Fluid Temperature | Fluid Depth | Atmospheric Pressure | Relative Humidity | $\rho$ (Kg/m <sup>3</sup> ) |
|-----------|------------|---------------------|-------------------|-------------|----------------------|-------------------|-----------------------------|
| Sep 7     | 835 Head   | 23.0°C              | 22.9°C            | ≥ 15 cm     | 101.1 kPa            | 30%               | 1000                        |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 11 of 208                                                                        |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

## 7.0 SAR TEST REDUCTION PROCEDURES APPLIED (FCC KDB 643646 D01v01r01)

- a. Face-held Configuration - Default Battery Selection - per FCC KDB 643646, Page 2, Section 1) A): *"When multiple standard batteries are supplied with a radio, the battery with the highest capacity is considered the default battery for making head SAR measurements."*
- b. Body-worn Configuration - Default Battery Selection - per FCC KDB 643646, Page 5, Section 1) A): *"Start by testing a PTT radio with the thinnest battery and a standard (default) Body-worn accessory that are both supplied with the radio and, if applicable, a default audio accessory....."*
- c. Body-worn Configuration - Default Body-worn Accessory Selection - the belt-clip accessory was selected as the default body-worn accessory based on the smaller separation distance it provides between the radio and the user in comparison to the remaining accessories. Per FCC KDB 643646, Page 5, Section 1) A): *"When multiple default Body-worn accessories are supplied with a radio, the standard Body-worn accessory expected to result in the highest SAR based on its construction and exposure conditions is considered the default Body-worn accessory for making Body-worn measurements."*
- d. Body-worn Configuration - Additional Body-worn Accessories - the remaining Body-worn accessories were evaluated based on the *"additional Body-worn accessory"* guidance provided in FCC KDB 643646, Page 7, Section 4). The remaining Body-worn accessories can be utilized with all the audio accessory options.
- e. Body-worn Configuration - Default Audio Accessory Selection - According to the manufacturer, the radio is not supplied to the end user with a standard default audio accessory (as referenced in FCC KDB 643646, Page 4, Section "Body SAR Test Considerations for Body-worn Accessories"); therefore the procedures described in note (h) below were applied in order to establish the default audio accessory.
- f. Body-worn Configuration - Selection of Remaining Default Audio Accessories by Category - the Remaining Default Audio Accessories by Category were selected based on the guidance provided in FCC KDB 643646, Section "Body SAR Test Considerations for Audio Accessories without Built-in Antenna", Page 10: *"For audio accessories with similar construction and operating requirements, test only the audio accessory within the group that is expected to result in the highest SAR, with respect to changes in RF characteristics and exposure conditions for the combination. If it is unclear which audio accessory within a group of similar accessories is expected to result in the highest SAR, good engineering judgment and preliminary testing should be applied to select the accessory that is expected to result in the highest SAR."* Please refer to note (i) below for the procedure implemented to establish the Default Audio Accessory by Category (Grouping). The Remaining Default Audio Accessories by Category were evaluated on the highest SAR channel and antenna combination from the Default Audio Accessory evaluations (see note e.) based on the guidance provided in FCC KDB 643646, Page 10, Section 1) A) thru D).
- g. Body-worn Configuration - Selection of Additional Audio Accessories by Category - the Additional Audio Accessories by Category were selected based on the guidance provided in FCC KDB 643646, Section "Body SAR Test Considerations for Audio Accessories without Built-in Antenna", Page 10.
- h. According to the manufacturer, all the optional audio accessories can be used with any accessory combination (antenna, battery & body-worn accessory) - see also Appendix I (Audio Accessory Combinations). Therefore, in order to establish the overall default audio accessory and default accessory by category (grouping), preliminary SAR evaluations (area scans with belt-clip and thinnest battery) were performed by Celltech with all of the optional audio accessories connected to the radio consecutively.

|                         |                                                                                                                      |         |              |           |              |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|---------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                                                                                   | FCC ID: | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth                                                           |         |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |         |              |           |              | Page 12 of 208                                                                        |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

## 8.0 SAR TEST REDUCTION PROCEDURES - SCAN MODEL (FCC KDB INQ. #235657)

With respect to the SAR results for the *original model*, please test the SAR for *additional models* according to the following where reported and measured should mean the SAR results at 50% duty factor before further scaling or compensation.

1. For face exposure, *additional models* should be measured for each of the antennas using the highest SAR configuration reported among the battery configurations for the *base model*; i.e., one SAR per antenna for each additional model.
2. For body-worn accessories with the default audio accessory, *additional models* should be measured for each of the antennas and body-worn accessories using the highest SAR configuration reported among the battery configurations for the *base model*; i.e., one SAR per antenna and body-worn accessory combination. For each of these configurations, if the measured SAR for the *additional models* is > 7.0 W/kg repeat all SAR measured for the *base model* that are > 6.0 W/kg using the *additional models*. In addition, all SAR measured for the *base model* > 7.0 W/kg must be repeated for the *additional models*.
3. For the remaining default audio accessories, all SAR measured for each combination of antenna, battery, body-worn accessory and audio accessory with the *base model* with SAR  $\geq$  7.0 W/kg must be repeated for the *additional models* for such combinations. When the highest SAR measured for a *base model* combination of antenna, battery, body-worn accessory and audio accessory is < 7.0 W/kg, measure SAR for the *additional models* using the highest SAR reported for each *base model* combination; i.e., at least one test per combination. However, if the highest reported SAR for a *base model* combination is < 5.0 W/kg, no test is needed for that combination. For each *additional model* combination, if the measured SAR is > 7.0 W/kg repeat all SAR measured for that combination when the reported *base model* SAR is > 6.0 W/kg.
4. For the rest of the additional (non-default) audio accessories tested for the *base model*, apply the same procedures used for the remaining default audio accessories in #3 above. A combination should be determined according to audio accessory part numbers; not by audio category.

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 13 of 208                                                                        |

|                                                                                                                          |                                                |                                                    |                                                    |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                                                        |

## 9.0 SAR MEASUREMENT SUMMARY

| TABLE 1                                                                                               |                        |                             |                             | FACE-HELD SAR EVALUATION RESULTS             |             |          |                                                                                |                                              |                |                        |             |                                              |                     |             |       |   |  |   |  |
|-------------------------------------------------------------------------------------------------------|------------------------|-----------------------------|-----------------------------|----------------------------------------------|-------------|----------|--------------------------------------------------------------------------------|----------------------------------------------|----------------|------------------------|-------------|----------------------------------------------|---------------------|-------------|-------|---|--|---|--|
| Device-Under-Test                                                                                     |                        |                             |                             | XG-25P 7/800 Radio Transceiver (System)      |             |          |                                                                                |                                              |                |                        |             |                                              |                     |             |       |   |  |   |  |
| Test Date(s)                                                                                          |                        |                             |                             | Sept. 7, 2012                                |             |          |                                                                                |                                              |                |                        |             |                                              |                     |             |       |   |  |   |  |
| C                                                                                                     |                        |                             |                             | 1                                            |             | 2        |                                                                                | 3                                            |                | 4                      |             | 5                                            |                     | 6           |       | 7 |  | 8 |  |
| R                                                                                                     | Antenna Accessory ID # | Test Freq. (MHz)            | Cond. Power Before Test (W) | SAR W/kg 1g                                  |             |          | SAR W/kg 1g                                                                    |                                              |                | SAR W/kg 1g            |             |                                              | SAR W/kg 1g         |             |       |   |  |   |  |
|                                                                                                       |                        |                             |                             | Battery a (Additional)                       |             |          | Battery b (Additional)                                                         |                                              |                | Battery c (Additional) |             |                                              | Battery d (Default) |             |       |   |  |   |  |
|                                                                                                       |                        |                             |                             | 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 |       |   |  |   |  |
|                                                                                                       |                        |                             |                             | Drift (dB)                                   | 50%+droop   |          | Drift dB                                                                       | 50%+droop                                    |                | Drift dB               | 50%+droop   |                                              | Drift dB            | 50%+droop   |       |   |  |   |  |
| 1                                                                                                     | 1                      | 764.0                       | 2.90                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | N/A                 |             |       |   |  |   |  |
| 2                                                                                                     |                        | 776.0                       | 2.95                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | F1                  | 1.14        | 0.570 |   |  |   |  |
| 3                                                                                                     |                        |                             |                             |                                              |             |          |                                                                                |                                              |                |                        |             |                                              |                     | -0.272      | 0.607 |   |  |   |  |
| 4                                                                                                     |                        | 794.0                       | 2.93                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | F2                  | 1.20        | 0.600 |   |  |   |  |
| 5                                                                                                     |                        |                             |                             |                                              |             |          |                                                                                |                                              |                |                        |             |                                              |                     | -0.463      | 0.667 |   |  |   |  |
| 6                                                                                                     |                        | 805.0                       | 2.90                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | N/A                 |             |       |   |  |   |  |
| 7                                                                                                     |                        | 806.0                       | 3.20                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | N/A                 |             |       |   |  |   |  |
| 8                                                                                                     |                        | 824.0                       | 3.20                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | F3                  | 1.23        | 0.615 |   |  |   |  |
| 9                                                                                                     |                        |                             |                             |                                              |             |          |                                                                                |                                              |                |                        |             |                                              |                     | -0.620      | 0.709 |   |  |   |  |
| 10                                                                                                    |                        | 851.0                       | 3.16                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | N/A                 |             |       |   |  |   |  |
| 11                                                                                                    |                        | 869.0                       | 3.20                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | F4                  | 0.742       | 0.371 |   |  |   |  |
| 12                                                                                                    |                        |                             |                             |                                              |             |          |                                                                                |                                              |                |                        |             |                                              |                     | -0.304      | 0.398 |   |  |   |  |
| 13                                                                                                    | 2                      | 764.0                       | 2.90                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | N/A                 |             |       |   |  |   |  |
| 14                                                                                                    |                        | 776.0                       | 2.95                        | F9                                           | 3.25        | 1.63     | F10                                                                            | 3.00                                         | 1.50           | F11                    | 3.08        | 1.54                                         | F5                  | 3.01        | 1.51  |   |  |   |  |
| 15                                                                                                    |                        |                             |                             |                                              | -0.168      | 1.69     |                                                                                | -0.151                                       | 1.55           |                        | -0.190      | 1.61                                         |                     | -0.057      | 1.53  |   |  |   |  |
| 16                                                                                                    |                        | 794.0                       | 2.93                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | F6                  | 2.89        | 1.45  |   |  |   |  |
| 17                                                                                                    |                        |                             |                             |                                              |             |          |                                                                                |                                              |                |                        |             |                                              |                     | -0.079      | 1.47  |   |  |   |  |
| 18                                                                                                    |                        | 805.0                       | 2.90                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | N/A                 |             |       |   |  |   |  |
| 19                                                                                                    |                        | 806.0                       | 3.20                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | N/A                 |             |       |   |  |   |  |
| 20                                                                                                    |                        | 824.0                       | 3.20                        | F12                                          | 2.83        | 1.42     | F13                                                                            | 3.13                                         | 1.57           | F14                    | 3.08        | 1.54                                         | F7                  | 2.97        | 1.49  |   |  |   |  |
| 21                                                                                                    |                        |                             |                             |                                              | -0.283      | 1.51     |                                                                                | -0.139                                       | 1.62           |                        | -0.148      | 1.59                                         |                     | -0.155      | 1.54  |   |  |   |  |
| 22                                                                                                    |                        | 851.0                       | 3.16                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | N/A                 |             |       |   |  |   |  |
| 23                                                                                                    |                        | 869.0                       | 3.20                        | N/A                                          |             |          | N/A                                                                            |                                              |                | N/A                    |             |                                              | F8                  | 1.90        | 0.950 |   |  |   |  |
| 24                                                                                                    |                        |                             |                             |                                              |             |          |                                                                                |                                              |                |                        |             |                                              |                     | -0.330      | 1.03  |   |  |   |  |
| SAR LIMITS                                                                                            |                        |                             |                             |                                              |             | HEAD     |                                                                                |                                              | SPATIAL PEAK   |                        |             | RF EXPOSURE CATEGORY                         |                     |             |       |   |  |   |  |
| FCC 47 CFR 2.1093                                                                                     |                        | Health Canada Safety Code 6 |                             |                                              |             | 8.0 W/kg |                                                                                |                                              | 1 gram average |                        |             | Occupational / Controlled                    |                     |             |       |   |  |   |  |
| Notes                                                                                                 |                        |                             |                             |                                              |             |          |                                                                                |                                              |                |                        |             |                                              |                     |             |       |   |  |   |  |
| Band 1: 764-776 MHz<br>Test Freq.: 776.0 MHz                                                          |                        |                             |                             | Band 2: 794-806 MHz<br>Test Freq.: 794.0 MHz |             |          |                                                                                | Band 3: 806-825 MHz<br>Test Freq.: 824.0 MHz |                |                        |             | Band 4: 851-870 MHz<br>Test Freq.: 869.0 MHz |                     |             |       |   |  |   |  |
| C = Column; R = Row                                                                                   |                        |                             |                             |                                              |             |          | Fx (F = Face) denotes the corresponding Face SAR Plot # as shown in Appendix A |                                              |                |                        |             |                                              |                     |             |       |   |  |   |  |
| Test Mode = CW (Unmodulated Continuous Wave)                                                          |                        |                             |                             |                                              |             |          | Phantom = Side Planar Phantom                                                  |                                              |                |                        |             |                                              |                     |             |       |   |  |   |  |
| Front of DUT Distance to Planar Phantom (see Appendix D)<br>(Front of DUT Parallel to Planar Phantom) |                        |                             |                             |                                              |             |          | Shortest Antenna Distance to Planar Phantom (see Appendix D)                   |                                              |                |                        |             |                                              |                     |             |       |   |  |   |  |
|                                                                                                       |                        |                             |                             |                                              |             |          | Antenna 1                                                                      |                                              |                |                        |             |                                              | Antenna 2           |             |       |   |  |   |  |
| 2.5 cm                                                                                                |                        |                             |                             |                                              |             |          | 5.4 cm                                                                         |                                              |                |                        |             |                                              | 5.4 cm              |             |       |   |  |   |  |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 14 of 208                                                                        |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

#### 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 (F1-F8), 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 (F1-F8), test additional batteries using the antenna and channel configuration that resulted in the highest SAR among all antennas (F9-F14). Note: This procedure was applied separately to the 700 MHz band and the 800 MHz band.
4. When test reduction applies, the data table entries for such configurations are denoted with N/A (Not Applicable).

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 15 of 208                                                                        |

|                                                                                                                          |                                                |                                                    |                                                    |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                                                        |

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.

| FACE-HELD SAR EVALUATION RESULTS (System & Scan Radio Model Variant Comparison)                       |                        |                             |                                              |               |                                                                                |               |                |                                      |                           |                             |               |   |                        |  |   |  |
|-------------------------------------------------------------------------------------------------------|------------------------|-----------------------------|----------------------------------------------|---------------|--------------------------------------------------------------------------------|---------------|----------------|--------------------------------------|---------------------------|-----------------------------|---------------|---|------------------------|--|---|--|
| TABLE 2                                                                                               |                        |                             | XG-25P 7/800 SCAN Radio Keypad Variant Model |               |                                                                                |               |                | XG-25P 7/800 SYSTEM Radio Base Model |                           |                             |               |   |                        |  |   |  |
| C                                                                                                     |                        |                             | Cond. Power Before Test (W)                  | 1             |                                                                                | 2             |                | 3                                    |                           | Cond. Power Before Test (W) | 4             |   | 5                      |  | 6 |  |
| R                                                                                                     | Antenna Accessory ID # | Test Freq. (MHz)            |                                              | SAR W/kg (1g) |                                                                                | SAR W/kg (1g) |                | Battery Accessory ID #               | SAR W/kg (1g)             |                             | SAR W/kg (1g) |   | Battery Accessory ID # |  |   |  |
|                                                                                                       |                        |                             |                                              | 100% ptt d/f  |                                                                                | 50% ptt d/f   |                |                                      | 100% ptt d/f              |                             | 50% ptt d/f   |   |                        |  |   |  |
|                                                                                                       |                        |                             |                                              | Drift (dB)    |                                                                                | 50%+droop     |                |                                      | Drift dB                  |                             | 50%+droop     |   |                        |  |   |  |
| 1                                                                                                     | 1                      | 764.0                       | 2.93                                         | N/A           |                                                                                |               |                | 2.90                                 | N/A                       |                             |               |   |                        |  |   |  |
| 2                                                                                                     |                        | 776.0                       | 2.96                                         | N/A           |                                                                                |               |                | 2.95                                 | N/A                       |                             |               |   |                        |  |   |  |
| 3                                                                                                     |                        | 794.0                       | 2.90                                         | N/A           |                                                                                |               |                | 2.93                                 | N/A                       |                             |               |   |                        |  |   |  |
| 4                                                                                                     |                        | 805.0                       | 2.95                                         | N/A           |                                                                                |               |                | 2.90                                 | N/A                       |                             |               |   |                        |  |   |  |
| 5                                                                                                     |                        | 806.0                       | 3.20                                         | N/A           |                                                                                |               |                | 3.20                                 | N/A                       |                             |               |   |                        |  |   |  |
| 6                                                                                                     |                        | 824.0                       | 3.19                                         | F15           | 1.32                                                                           | 0.660         | d              | 3.20                                 | F3                        | 1.23                        | 0.615         | d |                        |  |   |  |
| 7                                                                                                     |                        |                             |                                              |               | -0.244                                                                         | 0.698         |                |                                      |                           | -0.620                      | 0.709         |   |                        |  |   |  |
| 8                                                                                                     |                        | 851.0                       | 3.13                                         | N/A           |                                                                                |               |                | 3.16                                 | N/A                       |                             |               |   |                        |  |   |  |
| 9                                                                                                     |                        | 869.0                       | 3.17                                         | N/A           |                                                                                |               |                | 3.20                                 | N/A                       |                             |               |   |                        |  |   |  |
| 10                                                                                                    | 2                      | 764.0                       | 2.93                                         | N/A           |                                                                                |               |                | 2.90                                 | N/A                       |                             |               |   |                        |  |   |  |
| 11                                                                                                    |                        | 776.0                       | 2.96                                         | F16           | 3.23                                                                           | 1.62          | a              | 2.95                                 | F9                        | 3.25                        | 1.63          | a |                        |  |   |  |
| 12                                                                                                    |                        |                             |                                              |               | -0.003                                                                         | 1.62          |                |                                      |                           | -0.168                      | 1.69          |   |                        |  |   |  |
| 13                                                                                                    |                        | 794.0                       | 2.90                                         | N/A           |                                                                                |               |                | 2.93                                 | N/A                       |                             |               |   |                        |  |   |  |
| 14                                                                                                    |                        | 805.0                       | 2.95                                         | N/A           |                                                                                |               |                | 2.90                                 | N/A                       |                             |               |   |                        |  |   |  |
| 15                                                                                                    |                        | 806.0                       | 3.20                                         | N/A           |                                                                                |               |                | 3.20                                 | N/A                       |                             |               |   |                        |  |   |  |
| 16                                                                                                    |                        | 824.0                       | 3.19                                         | N/A           |                                                                                |               |                | 3.20                                 | N/A                       |                             |               |   |                        |  |   |  |
| 17                                                                                                    |                        | 851.0                       | 3.13                                         | N/A           |                                                                                |               |                | 3.16                                 | N/A                       |                             |               |   |                        |  |   |  |
| 18                                                                                                    |                        | 869.0                       | 3.17                                         | N/A           |                                                                                |               |                | 3.20                                 | N/A                       |                             |               |   |                        |  |   |  |
| SAR LIMITS                                                                                            |                        |                             |                                              |               | HEAD                                                                           |               | SPATIAL PEAK   |                                      | RF EXPOSURE CATEGORY      |                             |               |   |                        |  |   |  |
| FCC 47 CFR 2.1093                                                                                     |                        | Health Canada Safety Code 6 |                                              |               | 8.0 W/kg                                                                       |               | 1 gram average |                                      | Occupational / Controlled |                             |               |   |                        |  |   |  |
| Notes                                                                                                 |                        |                             |                                              |               |                                                                                |               |                |                                      |                           |                             |               |   |                        |  |   |  |
| Test Mode = CW (Unmodulated Continuous Wave)                                                          |                        |                             |                                              |               | Phantom = Side Planar Phantom                                                  |               |                |                                      |                           |                             |               |   |                        |  |   |  |
| C = Column; R = Row                                                                                   |                        |                             |                                              |               | Fx (F = Face) denotes the corresponding Face SAR Plot # as shown in Appendix A |               |                |                                      |                           |                             |               |   |                        |  |   |  |
| N/A = Not Applicable                                                                                  |                        |                             |                                              |               | Test reduction procedures applied for Scan model = FCC KDB Inquiry #235657     |               |                |                                      |                           |                             |               |   |                        |  |   |  |
| Front of DUT Distance to Planar Phantom (see Appendix D)<br>(Front of DUT Parallel to Planar Phantom) |                        |                             |                                              |               | Shortest Antenna Distance to Planar Phantom (see Appendix D)                   |               |                |                                      |                           |                             |               |   |                        |  |   |  |
|                                                                                                       |                        |                             |                                              |               | Antenna 1                                                                      |               |                |                                      |                           | Antenna 2                   |               |   |                        |  |   |  |
| 2.5 cm                                                                                                |                        |                             |                                              |               | 5.4 cm                                                                         |               |                |                                      |                           | 5.4 cm                      |               |   |                        |  |   |  |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 16 of 208                                                                        |

|                                                                                                                          |                                                |                                                    |                                                    |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                                                        |

| TABLE 3                                                                                               |                        |                             |                             | BODY-WORN SAR EVALUATION RESULTS             |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |     |  |
|-------------------------------------------------------------------------------------------------------|------------------------|-----------------------------|-----------------------------|----------------------------------------------|--------|-------------|--------------------------------------------------------------------------------|----------------------------------------------|----------------|------------------------|--------|----------------------------------------------|---------------------|--------|-------------|---|--|-----|--|
| Device-Under-Test                                                                                     |                        |                             |                             | XG-25P 7/800 Radio Transceiver (System)      |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |     |  |
| Body-worn Accessory ID #                                                                              |                        |                             |                             | 5 (Default)                                  |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |     |  |
| Audio Accessory ID #                                                                                  |                        |                             |                             | G3a (Default)                                |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |     |  |
| Test Date(s)                                                                                          |                        |                             |                             | Sept. 4, 2012                                |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |     |  |
| C                                                                                                     |                        |                             |                             | 1                                            |        | 2           |                                                                                | 3                                            |                | 4                      |        | 5                                            |                     | 6      |             | 7 |  | 8   |  |
| R                                                                                                     | Antenna Accessory ID # | Test Freq. (MHz)            | Cond. Power Before Test (W) | SAR W/kg 1g                                  |        |             | SAR W/kg 1g                                                                    |                                              |                | SAR W/kg 1g            |        |                                              | SAR W/kg 1g         |        |             |   |  |     |  |
|                                                                                                       |                        |                             |                             | Battery a (Additional)                       |        |             | Battery b (Additional)                                                         |                                              |                | Battery c (Additional) |        |                                              | Battery d (Default) |        |             |   |  |     |  |
|                                                                                                       |                        |                             |                             | 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 |   |  |     |  |
|                                                                                                       |                        |                             |                             | Drift (dB)                                   |        | 50%+droop   | Drift dB                                                                       |                                              | 50%+droop      | Drift dB               |        | 50%+droop                                    | Drift dB            |        | 50%+droop   |   |  |     |  |
| 1                                                                                                     | 1                      | 764.0                       | 2.90                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |     |  |
| 2                                                                                                     |                        | 776.0                       | 2.95                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B1                  | 4.95   | 2.48        |   |  |     |  |
| 3                                                                                                     |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.164 | 2.57        |   |  |     |  |
| 4                                                                                                     |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              | 794.0               | 2.93   | N/A         |   |  | N/A |  |
| 5                                                                                                     |                        | -0.003                      | 2.69                        |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |     |  |
| 6                                                                                                     |                        | 805.0                       | 2.90                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |     |  |
| 7                                                                                                     |                        | 806.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |     |  |
| 8                                                                                                     |                        | 824.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B3                  | 5.29   | 2.65        |   |  |     |  |
| 9                                                                                                     |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | 0.032  | n/a         |   |  |     |  |
| 10                                                                                                    |                        | 851.0                       | 3.16                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |     |  |
| 11                                                                                                    |                        | 869.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B4                  | 3.06   | 1.53        |   |  |     |  |
| 12                                                                                                    |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.286 | 1.63        |   |  |     |  |
| 13                                                                                                    | 2                      | 764.0                       | 2.90                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |     |  |
| 14                                                                                                    |                        | 776.0                       | 2.95                        | B9                                           | 4.48   | 2.24        | B10                                                                            | 5.33                                         | 2.67           | B11                    | 5.85   | 2.93                                         | B5                  | 7.18   | 3.59        |   |  |     |  |
| 15                                                                                                    |                        |                             |                             |                                              | -0.119 | 2.30        |                                                                                | -0.196                                       | 2.79           |                        | -0.154 | 3.03                                         |                     | -0.163 | 3.73        |   |  |     |  |
| 16                                                                                                    |                        | 794.0                       | 2.93                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B6                  | 6.37   | 3.19        |   |  |     |  |
| 17                                                                                                    |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.289 | 3.40        |   |  |     |  |
| 18                                                                                                    |                        | 805.0                       | 2.90                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |     |  |
| 19                                                                                                    |                        | 806.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |     |  |
| 20                                                                                                    |                        | 824.0                       | 3.20                        | B12                                          | 4.79   | 2.40        | B13                                                                            | 5.05                                         | 2.53           | B14                    | 4.31   | 2.16                                         | B7                  | 5.32   | 2.66        |   |  |     |  |
| 21                                                                                                    |                        |                             |                             |                                              | -0.195 | 2.51        |                                                                                | 0.276                                        | n/a            |                        | -0.325 | 2.32                                         |                     | -0.149 | 2.75        |   |  |     |  |
| 22                                                                                                    |                        | 851.0                       | 3.16                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |     |  |
| 23                                                                                                    |                        | 869.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B8                  | 4.01   | 2.01        |   |  |     |  |
| 24                                                                                                    |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.273 | 2.14        |   |  |     |  |
| SAR LIMITS                                                                                            |                        |                             |                             |                                              |        | BODY        |                                                                                |                                              | SPATIAL PEAK   |                        |        | RF EXPOSURE CATEGORY                         |                     |        |             |   |  |     |  |
| FCC 47 CFR 2.1093                                                                                     |                        | Health Canada Safety Code 6 |                             |                                              |        | 8.0 W/kg    |                                                                                |                                              | 1 gram average |                        |        | Occupational / Controlled                    |                     |        |             |   |  |     |  |
| Notes                                                                                                 |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |     |  |
| Band 1: 764-776 MHz<br>Test Freq.: 776.0 MHz                                                          |                        |                             |                             | Band 2: 794-806 MHz<br>Test Freq.: 794.0 MHz |        |             |                                                                                | Band 3: 806-825 MHz<br>Test Freq.: 824.0 MHz |                |                        |        | Band 4: 851-870 MHz<br>Test Freq.: 869.0 MHz |                     |        |             |   |  |     |  |
| C = Column; R = Row                                                                                   |                        |                             |                             |                                              |        |             | Bx (B = Body) denotes the corresponding Body SAR Plot # as shown in Appendix A |                                              |                |                        |        |                                              |                     |        |             |   |  |     |  |
| Test Mode = CW (Unmodulated Continuous Wave)                                                          |                        |                             |                             |                                              |        |             | Phantom = Barski Planar Phantom                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |     |  |
| Back of DUT Distance to Planar Phantom (see Appendix D)<br>(Back of Radio Parallel to Planar Phantom) |                        |                             |                             |                                              |        |             | Shortest Antenna Distance to Planar Phantom (see Appendix D)                   |                                              |                |                        |        |                                              |                     |        |             |   |  |     |  |
|                                                                                                       |                        |                             |                             |                                              |        |             | Antenna 1                                                                      |                                              |                |                        |        |                                              | Antenna 2           |        |             |   |  |     |  |
| 1.6 cm                                                                                                |                        |                             |                             |                                              |        |             | 1.9 cm                                                                         |                                              |                |                        |        |                                              | 1.9 cm              |        |             |   |  |     |  |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 17 of 208                                                                        |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>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 (B1-B8), testing of all other required channels is not necessary for that antenna.
3. When the SAR for all antennas tested using the thinnest\* battery is  $\leq 4.0$  W/kg (B1-B8), test additional batteries using the antenna and channel configuration that resulted in the highest SAR among all antennas (B9-B14). Note: This procedure was applied separately to the 700 MHz band and the 800 MHz band.
4. The audio accessory G3a was selected as the default audio accessory based on preliminary evaluations resulting in the most conservative SAR of all the disclosed audio accessory options.
5. When test reduction applies, the data table entries for such configurations are denoted with N/A (Not Applicable).

\* All battery options are the same thickness; therefore preliminary evaluations were performed to establish the default battery.

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 18 of 208                                                                        |



|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>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 (B15-B22), testing of all other required channels is not necessary for that antenna.
3. When the SAR for all antennas tested using the thinnest\* battery is  $\leq 4.0$  W/kg (B15-B22), test additional batteries using the antenna and channel configuration that resulted in the highest SAR among all antennas (B23-B28). Note: This procedure was applied separately to the 700 MHz band and the 800 MHz band.
4. The audio accessory G3a was selected as the default audio accessory based on preliminary evaluations resulting in the most conservative SAR of all the disclosed audio accessory options.
5. When test reduction applies, the data table entries for such configurations are denoted with N/A (Not Applicable).

\* All battery options are the same thickness; therefore preliminary evaluations were performed to establish the default battery.

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 20 of 208                                                                        |

|                                                                                                                          |                                                |                                                    |                                                    |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                                                        |

| TABLE 5                                                                                               |                        |                             |                             | BODY-WORN SAR EVALUATION RESULTS             |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
|-------------------------------------------------------------------------------------------------------|------------------------|-----------------------------|-----------------------------|----------------------------------------------|--------|-------------|--------------------------------------------------------------------------------|----------------------------------------------|----------------|------------------------|--------|----------------------------------------------|---------------------|--------|-------------|---|--|---|--|
| Device-Under-Test                                                                                     |                        |                             |                             | XG-25P 7/800 Radio Transceiver (System)      |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| Body-worn Accessory ID #                                                                              |                        |                             |                             | 3 (Additional)                               |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| Audio Accessory ID #                                                                                  |                        |                             |                             | G3a (Default)                                |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| Test Date(s)                                                                                          |                        |                             |                             | Sept. 5, 2012                                |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| C                                                                                                     |                        |                             |                             | 1                                            |        | 2           |                                                                                | 3                                            |                | 4                      |        | 5                                            |                     | 6      |             | 7 |  | 8 |  |
| R                                                                                                     | Antenna Accessory ID # | Test Freq. (MHz)            | Cond. Power Before Test (W) | SAR W/kg 1g                                  |        |             | SAR W/kg 1g                                                                    |                                              |                | SAR W/kg 1g            |        |                                              | SAR W/kg 1g         |        |             |   |  |   |  |
|                                                                                                       |                        |                             |                             | Battery a (Additional)                       |        |             | Battery b (Additional)                                                         |                                              |                | Battery c (Additional) |        |                                              | Battery d (Default) |        |             |   |  |   |  |
|                                                                                                       |                        |                             |                             | 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 |   |  |   |  |
|                                                                                                       |                        |                             |                             | Drift (dB)                                   |        | 50%+droop   | Drift dB                                                                       |                                              | 50%+droop      | Drift dB               |        | 50%+droop                                    | Drift dB            |        | 50%+droop   |   |  |   |  |
| 1                                                                                                     | 1                      | 764.0                       | 2.90                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 2                                                                                                     |                        | 776.0                       | 2.95                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B29                 | 0.704  | 0.352       |   |  |   |  |
| 3                                                                                                     |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.336 | 0.380       |   |  |   |  |
| 4                                                                                                     |                        | 794.0                       | 2.93                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B30                 | 0.729  | 0.365       |   |  |   |  |
| 5                                                                                                     |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.334 | 0.394       |   |  |   |  |
| 6                                                                                                     |                        | 805.0                       | 2.90                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 7                                                                                                     |                        | 806.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 8                                                                                                     |                        | 824.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B31                 | 0.793  | 0.397       |   |  |   |  |
| 9                                                                                                     |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.320 | 0.427       |   |  |   |  |
| 10                                                                                                    |                        | 851.0                       | 3.16                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 11                                                                                                    |                        | 869.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B32                 | 0.430  | 0.215       |   |  |   |  |
| 12                                                                                                    |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.359 | 0.234       |   |  |   |  |
| 13                                                                                                    | 2                      | 764.0                       | 2.90                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 14                                                                                                    |                        | 776.0                       | 2.95                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B33                 | 1.09   | 0.545       |   |  |   |  |
| 15                                                                                                    |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.138 | 0.563       |   |  |   |  |
| 16                                                                                                    |                        | 794.0                       | 2.93                        | B37                                          | 1.10   | 0.550       | B38                                                                            | 0.835                                        | 0.418          | B39                    | 1.36   | 0.680                                        | B34                 | 1.51   | 0.755       |   |  |   |  |
| 17                                                                                                    |                        |                             |                             |                                              | -0.167 | 0.572       |                                                                                | -0.162                                       | 0.433          |                        | -0.375 | 0.741                                        |                     | -0.273 | 0.804       |   |  |   |  |
| 18                                                                                                    |                        | 805.0                       | 2.90                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 19                                                                                                    |                        | 806.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 20                                                                                                    |                        | 824.0                       | 3.20                        | B40                                          | 1.10   | 0.550       | B41                                                                            | 1.00                                         | 0.500          | B42                    | 1.36   | 0.680                                        | B35                 | 1.40   | 0.700       |   |  |   |  |
| 21                                                                                                    |                        |                             |                             |                                              | -0.272 | 0.586       |                                                                                | -0.326                                       | 0.539          |                        | -0.335 | 0.735                                        |                     | -0.126 | 0.721       |   |  |   |  |
| 22                                                                                                    |                        | 851.0                       | 3.16                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 23                                                                                                    |                        | 869.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B36                 | 0.908  | 0.454       |   |  |   |  |
| 24                                                                                                    |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.431 | 0.501       |   |  |   |  |
| SAR LIMITS                                                                                            |                        |                             |                             |                                              |        | BODY        |                                                                                |                                              | SPATIAL PEAK   |                        |        | RF EXPOSURE CATEGORY                         |                     |        |             |   |  |   |  |
| FCC 47 CFR 2.1093                                                                                     |                        | Health Canada Safety Code 6 |                             |                                              |        | 8.0 W/kg    |                                                                                |                                              | 1 gram average |                        |        | Occupational / Controlled                    |                     |        |             |   |  |   |  |
| Notes                                                                                                 |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| Band 1: 764-776 MHz<br>Test Freq.: 776.0 MHz                                                          |                        |                             |                             | Band 2: 794-806 MHz<br>Test Freq.: 794.0 MHz |        |             |                                                                                | Band 3: 806-825 MHz<br>Test Freq.: 824.0 MHz |                |                        |        | Band 4: 851-870 MHz<br>Test Freq.: 869.0 MHz |                     |        |             |   |  |   |  |
| C = Column; R = Row                                                                                   |                        |                             |                             |                                              |        |             | Bx (B = Body) denotes the corresponding Body SAR Plot # as shown in Appendix A |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| Test Mode = CW (Unmodulated Continuous Wave)                                                          |                        |                             |                             |                                              |        |             | Phantom = Barski Planar Phantom                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| Back of DUT Distance to Planar Phantom (see Appendix D)<br>(Back of Radio Parallel to Planar Phantom) |                        |                             |                             |                                              |        |             | Shortest Antenna Distance to Planar Phantom (see Appendix D)                   |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
|                                                                                                       |                        |                             |                             |                                              |        |             | Antenna 1                                                                      |                                              |                |                        |        |                                              | Antenna 2           |        |             |   |  |   |  |
| 5.4 cm                                                                                                |                        |                             |                             |                                              |        |             | 5.6 cm                                                                         |                                              |                |                        |        |                                              | 5.6 cm              |        |             |   |  |   |  |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 21 of 208                                                                        |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

**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 (B29-B36), testing of all other required channels is not necessary for that antenna.
3. When the SAR for all antennas tested using the thinnest\* battery is  $\leq 4.0$  W/kg (B29-B36), test additional batteries using the antenna and channel configuration that resulted in the highest SAR among all antennas (B37-B42). Note: This procedure was applied separately to the 700 MHz band and the 800 MHz band.
4. The audio accessory G3a was selected as the default audio accessory based on preliminary evaluations resulting in the most conservative SAR of all the disclosed audio accessory options.
5. When test reduction applies, the data table entries for such configurations are denoted with N/A (Not Applicable).

\* All battery options are the same thickness; therefore preliminary evaluations were performed to establish the default battery.

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 22 of 208                                                                        |

|                                                                                                                          |                                                |                                                    |                                                    |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                                                        |

| TABLE 6                                                                                               |                        |                             |                             | BODY-WORN SAR EVALUATION RESULTS             |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
|-------------------------------------------------------------------------------------------------------|------------------------|-----------------------------|-----------------------------|----------------------------------------------|--------|-------------|--------------------------------------------------------------------------------|----------------------------------------------|----------------|------------------------|--------|----------------------------------------------|---------------------|--------|-------------|---|--|---|--|
| Device-Under-Test                                                                                     |                        |                             |                             | XG-25P 7/800 Radio Transceiver (System)      |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| Body-worn Accessory ID #                                                                              |                        |                             |                             | 4 (Additional)                               |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| Audio Accessory ID #                                                                                  |                        |                             |                             | G3a (Default)                                |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| Test Date(s)                                                                                          |                        |                             |                             | Sept. 5 & 6, 2012                            |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| C                                                                                                     |                        |                             |                             | 1                                            |        | 2           |                                                                                | 3                                            |                | 4                      |        | 5                                            |                     | 6      |             | 7 |  | 8 |  |
| R                                                                                                     | Antenna Accessory ID # | Test Freq. (MHz)            | Cond. Power Before Test (W) | SAR W/kg 1g                                  |        |             | SAR W/kg 1g                                                                    |                                              |                | SAR W/kg 1g            |        |                                              | SAR W/kg 1g         |        |             |   |  |   |  |
|                                                                                                       |                        |                             |                             | Battery a (Additional)                       |        |             | Battery b (Additional)                                                         |                                              |                | Battery c (Additional) |        |                                              | Battery d (Default) |        |             |   |  |   |  |
|                                                                                                       |                        |                             |                             | 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 |   |  |   |  |
|                                                                                                       |                        |                             |                             | Drift (dB)                                   |        | 50%+droop   | Drift dB                                                                       |                                              | 50%+droop      | Drift dB               |        | 50%+droop                                    | Drift dB            |        | 50%+droop   |   |  |   |  |
| 1                                                                                                     | 1                      | 764.0                       | 2.90                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 2                                                                                                     |                        | 776.0                       | 2.95                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B43                 | 2.69   | 1.35        |   |  |   |  |
| 3                                                                                                     |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.361 | 1.46        |   |  |   |  |
| 4                                                                                                     |                        | 794.0                       | 2.93                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B44                 | 3.06   | 1.53        |   |  |   |  |
| 5                                                                                                     |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -1.74  | 2.28        |   |  |   |  |
| 6                                                                                                     |                        | 805.0                       | 2.90                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 7                                                                                                     |                        | 806.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 8                                                                                                     |                        | 824.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B45                 | 1.96   | 0.980       |   |  |   |  |
| 9                                                                                                     |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | 0.708  | n/a         |   |  |   |  |
| 10                                                                                                    |                        | 851.0                       | 3.16                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 11                                                                                                    |                        | 869.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B46                 | 1.11   | 0.555       |   |  |   |  |
| 12                                                                                                    |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.100 | 0.568       |   |  |   |  |
| 13                                                                                                    | 2                      | 764.0                       | 2.90                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 14                                                                                                    |                        | 776.0                       | 2.95                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B47                 | 6.46   | 3.23        |   |  |   |  |
| 15                                                                                                    |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.113 | 3.32        |   |  |   |  |
| 16                                                                                                    |                        | 794.0                       | 2.93                        | B51                                          | 4.88   | 2.44        | B52                                                                            | 5.64                                         | 2.82           | B53                    | 6.68   | 3.34                                         | B48                 | 7.23   | 3.62        |   |  |   |  |
| 17                                                                                                    |                        |                             |                             |                                              | -0.343 | 2.64        |                                                                                | -0.475                                       | 3.15           |                        | -0.329 | 3.60                                         |                     | -0.247 | 3.83        |   |  |   |  |
| 18                                                                                                    |                        | 805.0                       | 2.90                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 19                                                                                                    |                        | 806.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 20                                                                                                    |                        | 824.0                       | 3.20                        | B54                                          | 4.80   | 2.40        | B55                                                                            | 4.37                                         | 2.19           | B56                    | 5.65   | 2.83                                         | B49                 | 6.28   | 3.14        |   |  |   |  |
| 21                                                                                                    |                        |                             |                             |                                              | -0.350 | 2.60        |                                                                                | -0.359                                       | 2.37           |                        | -0.357 | 3.07                                         |                     | -0.194 | 3.28        |   |  |   |  |
| 22                                                                                                    |                        | 851.0                       | 3.16                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | N/A                 |        |             |   |  |   |  |
| 23                                                                                                    |                        | 869.0                       | 3.20                        | N/A                                          |        |             | N/A                                                                            |                                              |                | N/A                    |        |                                              | B50                 | 4.42   | 2.21        |   |  |   |  |
| 24                                                                                                    |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     | -0.333 | 2.39        |   |  |   |  |
| SAR LIMITS                                                                                            |                        |                             |                             |                                              |        | BODY        |                                                                                |                                              | SPATIAL PEAK   |                        |        | RF EXPOSURE CATEGORY                         |                     |        |             |   |  |   |  |
| FCC 47 CFR 2.1093                                                                                     |                        | Health Canada Safety Code 6 |                             |                                              |        | 8.0 W/kg    |                                                                                |                                              | 1 gram average |                        |        | Occupational / Controlled                    |                     |        |             |   |  |   |  |
| Notes                                                                                                 |                        |                             |                             |                                              |        |             |                                                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| Band 1: 764-776 MHz<br>Test Freq.: 776.0 MHz                                                          |                        |                             |                             | Band 2: 794-806 MHz<br>Test Freq.: 794.0 MHz |        |             |                                                                                | Band 3: 806-825 MHz<br>Test Freq.: 824.0 MHz |                |                        |        | Band 4: 851-870 MHz<br>Test Freq.: 869.0 MHz |                     |        |             |   |  |   |  |
| C = Column; R = Row                                                                                   |                        |                             |                             |                                              |        |             | Bx (B = Body) denotes the corresponding Body SAR Plot # as shown in Appendix A |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| Test Mode = CW (Unmodulated Continuous Wave)                                                          |                        |                             |                             |                                              |        |             | Phantom = Barski Planar Phantom                                                |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
| Back of DUT Distance to Planar Phantom (see Appendix D)<br>(Back of Radio Parallel to Planar Phantom) |                        |                             |                             |                                              |        |             | Shortest Antenna Distance to Planar Phantom (see Appendix D)                   |                                              |                |                        |        |                                              |                     |        |             |   |  |   |  |
|                                                                                                       |                        |                             |                             |                                              |        |             | Antenna 1                                                                      |                                              |                |                        |        |                                              | Antenna 2           |        |             |   |  |   |  |
| 3.2 cm                                                                                                |                        |                             |                             |                                              |        |             | 3.3 cm                                                                         |                                              |                |                        |        |                                              | 3.3 cm              |        |             |   |  |   |  |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 23 of 208                                                                        |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

**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 (B43-B50), testing of all other required channels is not necessary for that antenna.
3. When the SAR for all antennas tested using the thinnest\* battery is  $\leq 4.0$  W/kg (B43-B50), test additional batteries using the antenna and channel configuration that resulted in the highest SAR among all antennas (B51-B56). Note: This procedure was applied separately to the 700 MHz band and the 800 MHz band.
4. The audio accessory G3a was selected as the default audio accessory based on preliminary evaluations resulting in the most conservative SAR of all the disclosed audio accessory options.
5. When test reduction applies, the data table entries for such configurations are denoted with N/A (Not Applicable).

\* All battery options are the same thickness; therefore preliminary evaluations were performed to establish the default battery.

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 24 of 208                                                                        |



|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

**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 (B57-B64), testing of all other required channels is not necessary for that antenna.
3. When the SAR for all antennas tested using the thinnest\* battery is  $\leq 4.0$  W/kg (B57-B64), test additional batteries using the antenna and channel configuration that resulted in the highest SAR among all antennas (B65-B70). Note: This procedure was applied separately to the 700 MHz band and the 800 MHz band.
4. The audio accessory G3a was selected as the default audio accessory based on preliminary evaluations resulting in the most conservative SAR of all the disclosed audio accessory options.
5. When test reduction applies, the data table entries for such configurations are denoted with N/A (Not Applicable).

\* All battery options are the same thickness; therefore preliminary evaluations were performed to establish the default battery.

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 26 of 208                                                                        |

|                                                                                                                          |                                                |                                                    |                                                    |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                                                        |

## BODY-WORN SAR EVALUATION RESULTS (System & Scan Radio Model Variant Comparison)

| TABLE 8                                                                                               |                        |                             | XG-25P 7/800 SCAN Radio Keypad Variant Model |               |                                                                                |               |                |                        | XG-25P 7/800 SYSTEM Radio Base Model |                             |               |   |                        |  |   |  |
|-------------------------------------------------------------------------------------------------------|------------------------|-----------------------------|----------------------------------------------|---------------|--------------------------------------------------------------------------------|---------------|----------------|------------------------|--------------------------------------|-----------------------------|---------------|---|------------------------|--|---|--|
| Body-worn Accessory ID#                                                                               |                        |                             | 5 (Default)                                  |               |                                                                                |               |                |                        |                                      |                             |               |   |                        |  |   |  |
| Audio Accessory ID #                                                                                  |                        |                             | G3a (Default)                                |               |                                                                                |               |                |                        |                                      |                             |               |   |                        |  |   |  |
| C                                                                                                     |                        |                             | Cond. Power Before Test (W)                  | 1             |                                                                                | 2             |                | 3                      |                                      | Cond. Power Before Test (W) | 4             |   | 5                      |  | 6 |  |
| R                                                                                                     | Antenna Accessory ID # | Test Freq. (MHz)            |                                              | SAR W/kg (1g) |                                                                                | SAR W/kg (1g) |                | Battery Accessory ID # | SAR W/kg (1g)                        |                             | SAR W/kg (1g) |   | Battery Accessory ID # |  |   |  |
|                                                                                                       |                        |                             |                                              | 100% ptt d/f  |                                                                                | 50% ptt d/f   |                |                        | 100% ptt d/f                         |                             | 50% ptt d/f   |   |                        |  |   |  |
|                                                                                                       |                        |                             |                                              | Drift (dB)    |                                                                                | 50%+droop     |                |                        | Drift dB                             |                             | 50%+droop     |   |                        |  |   |  |
| 1                                                                                                     | 1                      | 764.0                       | 2.93                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |                        |  |   |  |
| 2                                                                                                     |                        | 776.0                       | 2.96                                         | N/A           |                                                                                |               |                | 2.95                   | N/A                                  |                             |               |   |                        |  |   |  |
| 3                                                                                                     |                        | 794.0                       | 2.90                                         | B71           | 5.25                                                                           | 2.63          | d              | 2.93                   | B2                                   | 5.38                        | 2.69          | d |                        |  |   |  |
| 4                                                                                                     |                        |                             |                                              |               | 0.001                                                                          | n/a           |                |                        |                                      | -0.003                      | 2.69          |   |                        |  |   |  |
| 5                                                                                                     |                        | 805.0                       | 2.95                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |                        |  |   |  |
| 6                                                                                                     |                        | 806.0                       | 3.20                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |                        |  |   |  |
| 7                                                                                                     |                        | 824.0                       | 3.19                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |                        |  |   |  |
| 8                                                                                                     |                        | 851.0                       | 3.13                                         | N/A           |                                                                                |               |                | 3.16                   | N/A                                  |                             |               |   |                        |  |   |  |
| 9                                                                                                     |                        | 869.0                       | 3.17                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |                        |  |   |  |
| 10                                                                                                    | 2                      | 764.0                       | 2.93                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |                        |  |   |  |
| 11                                                                                                    |                        | 776.0                       | 2.96                                         | B72           | 4.49                                                                           | 2.25          | d              | 2.95                   | B5                                   | 7.18                        | 3.59          | d |                        |  |   |  |
| 12                                                                                                    |                        |                             |                                              |               | 0.066                                                                          | n/a           |                |                        |                                      | -0.163                      | 3.73          |   |                        |  |   |  |
| 13                                                                                                    |                        | 794.0                       | 2.90                                         | N/A           |                                                                                |               |                | 2.93                   | N/A                                  |                             |               |   |                        |  |   |  |
| 14                                                                                                    |                        | 805.0                       | 2.95                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |                        |  |   |  |
| 15                                                                                                    |                        | 806.0                       | 3.20                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |                        |  |   |  |
| 16                                                                                                    |                        | 824.0                       | 3.19                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |                        |  |   |  |
| 17                                                                                                    |                        | 851.0                       | 3.13                                         | N/A           |                                                                                |               |                | 3.16                   | N/A                                  |                             |               |   |                        |  |   |  |
| 18                                                                                                    |                        | 869.0                       | 3.17                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |                        |  |   |  |
| SAR LIMITS                                                                                            |                        |                             |                                              |               | BODY                                                                           |               | SPATIAL PEAK   |                        | RF EXPOSURE CATEGORY                 |                             |               |   |                        |  |   |  |
| FCC 47 CFR 2.1093                                                                                     |                        | Health Canada Safety Code 6 |                                              |               | 8.0 W/kg                                                                       |               | 1 gram average |                        | Occupational / Controlled            |                             |               |   |                        |  |   |  |
| Notes                                                                                                 |                        |                             |                                              |               |                                                                                |               |                |                        |                                      |                             |               |   |                        |  |   |  |
| Test Mode = CW (Unmodulated Continuous Wave)                                                          |                        |                             |                                              |               | Phantom = Barski Planar Phantom                                                |               |                |                        |                                      |                             |               |   |                        |  |   |  |
| C = Column; R = Row                                                                                   |                        |                             |                                              |               | Bx (B = Body) denotes the corresponding Body SAR Plot # as shown in Appendix A |               |                |                        |                                      |                             |               |   |                        |  |   |  |
| N/A = Not Applicable                                                                                  |                        |                             |                                              |               | Test reduction procedures applied for Scan model = FCC KDB Inquiry #235657     |               |                |                        |                                      |                             |               |   |                        |  |   |  |
| Back of DUT Distance to Planar Phantom (see Appendix D)<br>(Back of Radio Parallel to Planar Phantom) |                        |                             |                                              |               | Shortest Antenna Distance to Planar Phantom (see Appendix D)                   |               |                |                        |                                      |                             |               |   |                        |  |   |  |
|                                                                                                       |                        |                             |                                              |               | Antenna 1                                                                      |               |                |                        | Antenna 2                            |                             |               |   |                        |  |   |  |
| 1.6 cm                                                                                                |                        |                             |                                              |               | 1.9 cm                                                                         |               |                |                        | 1.9 cm                               |                             |               |   |                        |  |   |  |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 27 of 208                                                                        |

|                                                                                                                          |                                                |                                                    |                                                    |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                                                        |

## BODY-WORN SAR EVALUATION RESULTS (System & Scan Radio Model Variant Comparison)

| TABLE 9                                                                                               |                        |                             | XG-25P 7/800 SCAN Radio Keypad Variant Model |               |                                                                                |               |                | XG-25P 7/800 SYSTEM Radio Base Model |                           |                             |               |   |               |  |                        |  |
|-------------------------------------------------------------------------------------------------------|------------------------|-----------------------------|----------------------------------------------|---------------|--------------------------------------------------------------------------------|---------------|----------------|--------------------------------------|---------------------------|-----------------------------|---------------|---|---------------|--|------------------------|--|
| Body-worn Accessory ID#                                                                               |                        |                             | 1 (Additional)                               |               |                                                                                |               |                |                                      |                           |                             |               |   |               |  |                        |  |
| Audio Accessory ID #                                                                                  |                        |                             | G3a (Default)                                |               |                                                                                |               |                |                                      |                           |                             |               |   |               |  |                        |  |
| C                                                                                                     |                        |                             | Cond. Power Before Test (W)                  | 1             |                                                                                | 2             |                | 3                                    |                           | Cond. Power Before Test (W) | 4             |   | 5             |  | 6                      |  |
| R                                                                                                     | Antenna Accessory ID # | Test Freq. (MHz)            |                                              | SAR W/kg (1g) |                                                                                | SAR W/kg (1g) |                | Battery Accessory ID #               |                           |                             | SAR W/kg (1g) |   | SAR W/kg (1g) |  | Battery Accessory ID # |  |
|                                                                                                       |                        |                             |                                              | 100% ptt d/f  |                                                                                | 50% ptt d/f   |                |                                      |                           |                             | 100% ptt d/f  |   | 50% ptt d/f   |  |                        |  |
|                                                                                                       |                        |                             |                                              | Drift (dB)    |                                                                                | 50%+droop     |                |                                      |                           |                             | Drift dB      |   | 50%+droop     |  |                        |  |
| 1                                                                                                     | 1                      | 764.0                       | 2.93                                         | N/A           |                                                                                |               |                | 2.90                                 | N/A                       |                             |               |   |               |  |                        |  |
| 2                                                                                                     |                        | 776.0                       | 2.96                                         | B73           | 1.21                                                                           | 0.605         | d              | 2.95                                 | B15                       | 1.15                        | 0.575         | d |               |  |                        |  |
| 3                                                                                                     |                        |                             |                                              |               | -0.273                                                                         | 0.644         |                |                                      |                           | -0.311                      | 0.618         |   |               |  |                        |  |
| 4                                                                                                     |                        | 794.0                       | 2.90                                         | N/A           |                                                                                |               |                | 2.93                                 | N/A                       |                             |               |   |               |  |                        |  |
| 5                                                                                                     |                        | 805.0                       | 2.95                                         | N/A           |                                                                                |               |                | 2.90                                 | N/A                       |                             |               |   |               |  |                        |  |
| 6                                                                                                     |                        | 806.0                       | 3.20                                         | N/A           |                                                                                |               |                | 3.20                                 | N/A                       |                             |               |   |               |  |                        |  |
| 7                                                                                                     |                        | 824.0                       | 3.19                                         | N/A           |                                                                                |               |                | 3.20                                 | N/A                       |                             |               |   |               |  |                        |  |
| 8                                                                                                     |                        | 851.0                       | 3.13                                         | N/A           |                                                                                |               |                | 3.16                                 | N/A                       |                             |               |   |               |  |                        |  |
| 9                                                                                                     |                        | 869.0                       | 3.17                                         | N/A           |                                                                                |               |                | 3.20                                 | N/A                       |                             |               |   |               |  |                        |  |
| 10                                                                                                    | 2                      | 764.0                       | 2.93                                         | N/A           |                                                                                |               |                | 2.90                                 | N/A                       |                             |               |   |               |  |                        |  |
| 11                                                                                                    |                        | 776.0                       | 2.96                                         | N/A           |                                                                                |               |                | 2.95                                 | N/A                       |                             |               |   |               |  |                        |  |
| 12                                                                                                    |                        | 794.0                       | 2.90                                         | B74           | 1.94                                                                           | 0.970         | d              | 2.93                                 | B20                       | 1.69                        | 0.845         | d |               |  |                        |  |
| 13                                                                                                    |                        |                             |                                              |               | -0.022                                                                         | 0.975         |                |                                      |                           | -0.262                      | 0.898         |   |               |  |                        |  |
| 14                                                                                                    |                        | 805.0                       | 2.95                                         | N/A           |                                                                                |               |                | 2.90                                 | N/A                       |                             |               |   |               |  |                        |  |
| 15                                                                                                    |                        | 806.0                       | 3.20                                         | N/A           |                                                                                |               |                | 3.20                                 | N/A                       |                             |               |   |               |  |                        |  |
| 16                                                                                                    |                        | 824.0                       | 3.19                                         | N/A           |                                                                                |               |                | 3.20                                 | N/A                       |                             |               |   |               |  |                        |  |
| 17                                                                                                    |                        | 851.0                       | 3.13                                         | N/A           |                                                                                |               |                | 3.16                                 | N/A                       |                             |               |   |               |  |                        |  |
| 18                                                                                                    |                        | 869.0                       | 3.17                                         | N/A           |                                                                                |               |                | 3.20                                 | N/A                       |                             |               |   |               |  |                        |  |
| SAR LIMITS                                                                                            |                        |                             |                                              |               | BODY                                                                           |               | SPATIAL PEAK   |                                      | RF EXPOSURE CATEGORY      |                             |               |   |               |  |                        |  |
| FCC 47 CFR 2.1093                                                                                     |                        | Health Canada Safety Code 6 |                                              |               | 8.0 W/kg                                                                       |               | 1 gram average |                                      | Occupational / Controlled |                             |               |   |               |  |                        |  |
| Notes                                                                                                 |                        |                             |                                              |               |                                                                                |               |                |                                      |                           |                             |               |   |               |  |                        |  |
| Test Mode = CW (Unmodulated Continuous Wave)                                                          |                        |                             |                                              |               | Phantom = Barski Planar Phantom                                                |               |                |                                      |                           |                             |               |   |               |  |                        |  |
| C = Column; R = Row                                                                                   |                        |                             |                                              |               | Bx (B = Body) denotes the corresponding Body SAR Plot # as shown in Appendix A |               |                |                                      |                           |                             |               |   |               |  |                        |  |
| N/A = Not Applicable                                                                                  |                        |                             |                                              |               | Test reduction procedures applied for Scan model = FCC KDB Inquiry #235657     |               |                |                                      |                           |                             |               |   |               |  |                        |  |
| Back of DUT Distance to Planar Phantom (see Appendix D)<br>(Back of Radio Parallel to Planar Phantom) |                        |                             |                                              |               | Shortest Antenna Distance to Planar Phantom (see Appendix D)                   |               |                |                                      |                           |                             |               |   |               |  |                        |  |
|                                                                                                       |                        |                             |                                              |               | Antenna 1                                                                      |               |                |                                      |                           | Antenna 2                   |               |   |               |  |                        |  |
| 4.5 cm                                                                                                |                        |                             |                                              |               | 4.7 cm                                                                         |               |                |                                      |                           | 4.7 cm                      |               |   |               |  |                        |  |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 28 of 208                                                                        |

|                                                                                                                          |                                                |                                                    |                                                    |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                                                        |

## BODY-WORN SAR EVALUATION RESULTS (System & Scan Radio Model Variant Comparison)

| TABLE 10                                                                                              |                        |                             | XG-25P 7/800 SCAN Radio Keypad Variant Model |               |                                                                                |               |                |                        | XG-25P 7/800 SYSTEM Radio Base Model |                             |               |   |               |  |                        |  |
|-------------------------------------------------------------------------------------------------------|------------------------|-----------------------------|----------------------------------------------|---------------|--------------------------------------------------------------------------------|---------------|----------------|------------------------|--------------------------------------|-----------------------------|---------------|---|---------------|--|------------------------|--|
| Body-worn Accessory ID#                                                                               |                        |                             | 3 (Additional)                               |               |                                                                                |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| Audio Accessory ID #                                                                                  |                        |                             | G3a (Default)                                |               |                                                                                |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| C                                                                                                     |                        |                             | Cond. Power Before Test (W)                  | 1             |                                                                                | 2             |                | 3                      |                                      | Cond. Power Before Test (W) | 4             |   | 5             |  | 6                      |  |
| R                                                                                                     | Antenna Accessory ID # | Test Freq. (MHz)            |                                              | SAR W/kg (1g) |                                                                                | SAR W/kg (1g) |                | Battery Accessory ID # |                                      |                             | SAR W/kg (1g) |   | SAR W/kg (1g) |  | Battery Accessory ID # |  |
|                                                                                                       |                        |                             |                                              | 100% ptt d/f  |                                                                                | 50% ptt d/f   |                |                        |                                      |                             | 100% ptt d/f  |   | 50% ptt d/f   |  |                        |  |
|                                                                                                       |                        |                             |                                              | Drift (dB)    |                                                                                | 50%+droop     |                |                        |                                      |                             | Drift dB      |   | 50%+droop     |  |                        |  |
| 1                                                                                                     | 1                      | 764.0                       | 2.93                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |               |  |                        |  |
| 2                                                                                                     |                        | 776.0                       | 2.96                                         | N/A           |                                                                                |               |                | 2.95                   | N/A                                  |                             |               |   |               |  |                        |  |
| 3                                                                                                     |                        | 794.0                       | 2.90                                         | N/A           |                                                                                |               |                | 2.93                   | N/A                                  |                             |               |   |               |  |                        |  |
| 4                                                                                                     |                        | 805.0                       | 2.95                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |               |  |                        |  |
| 5                                                                                                     |                        | 806.0                       | 3.20                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 6                                                                                                     |                        | 824.0                       | 3.19                                         | B75           | 0.804                                                                          | 0.402         | d              | 3.20                   | B31                                  | 0.793                       | 0.397         | d |               |  |                        |  |
| 7                                                                                                     |                        |                             |                                              |               | -0.259                                                                         | 0.427         |                |                        |                                      | -0.320                      | 0.427         |   |               |  |                        |  |
| 8                                                                                                     |                        | 851.0                       | 3.13                                         | N/A           |                                                                                |               |                | 3.16                   | N/A                                  |                             |               |   |               |  |                        |  |
| 9                                                                                                     |                        | 869.0                       | 3.17                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 10                                                                                                    | 2                      | 764.0                       | 2.93                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |               |  |                        |  |
| 11                                                                                                    |                        | 776.0                       | 2.96                                         | N/A           |                                                                                |               |                | 2.95                   | N/A                                  |                             |               |   |               |  |                        |  |
| 12                                                                                                    |                        | 794.0                       | 2.90                                         | B76           | 1.54                                                                           | 0.770         | d              | 2.93                   | B34                                  | 1.51                        | 0.755         | d |               |  |                        |  |
| 13                                                                                                    |                        |                             |                                              |               | 0.026                                                                          | n/a           |                |                        |                                      | -0.273                      | 0.804         |   |               |  |                        |  |
| 14                                                                                                    |                        | 805.0                       | 2.95                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |               |  |                        |  |
| 15                                                                                                    |                        | 806.0                       | 3.20                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 16                                                                                                    |                        | 824.0                       | 3.19                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 17                                                                                                    |                        | 851.0                       | 3.13                                         | N/A           |                                                                                |               |                | 3.16                   | N/A                                  |                             |               |   |               |  |                        |  |
| 18                                                                                                    |                        | 869.0                       | 3.17                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| SAR LIMITS                                                                                            |                        |                             |                                              |               | BODY                                                                           |               | SPATIAL PEAK   |                        | RF EXPOSURE CATEGORY                 |                             |               |   |               |  |                        |  |
| FCC 47 CFR 2.1093                                                                                     |                        | Health Canada Safety Code 6 |                                              |               | 8.0 W/kg                                                                       |               | 1 gram average |                        | Occupational / Controlled            |                             |               |   |               |  |                        |  |
| Notes                                                                                                 |                        |                             |                                              |               |                                                                                |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| Test Mode = CW (Unmodulated Continuous Wave)                                                          |                        |                             |                                              |               | Phantom = Barski Planar Phantom                                                |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| C = Column; R = Row                                                                                   |                        |                             |                                              |               | Bx (B = Body) denotes the corresponding Body SAR Plot # as shown in Appendix A |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| N/A = Not Applicable                                                                                  |                        |                             |                                              |               | Test reduction procedures applied for Scan model = FCC KDB Inquiry #235657     |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| Back of DUT Distance to Planar Phantom (see Appendix D)<br>(Back of Radio Parallel to Planar Phantom) |                        |                             |                                              |               | Shortest Antenna Distance to Planar Phantom (see Appendix D)                   |               |                |                        |                                      |                             |               |   |               |  |                        |  |
|                                                                                                       |                        |                             |                                              |               | Antenna 1                                                                      |               |                |                        | Antenna 2                            |                             |               |   |               |  |                        |  |
| 5.4 cm                                                                                                |                        |                             |                                              |               | 5.6 cm                                                                         |               |                |                        | 5.6 cm                               |                             |               |   |               |  |                        |  |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 29 of 208                                                                        |

|                                                                                                                          |                                                |                                                    |                                                    |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                                                        |

## BODY-WORN SAR EVALUATION RESULTS (System & Scan Radio Model Variant Comparison)

| TABLE 11                                                                                           |                        |                             | XG-25P 7/800 SCAN Radio Keypad Variant Model |               |                                                                                |               |                |                        | XG-25P 7/800 SYSTEM Radio Base Model |                             |               |   |               |  |                        |  |
|----------------------------------------------------------------------------------------------------|------------------------|-----------------------------|----------------------------------------------|---------------|--------------------------------------------------------------------------------|---------------|----------------|------------------------|--------------------------------------|-----------------------------|---------------|---|---------------|--|------------------------|--|
| Body-worn Accessory ID#                                                                            |                        |                             | 4 (Additional)                               |               |                                                                                |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| Audio Accessory ID #                                                                               |                        |                             | G3a (Default)                                |               |                                                                                |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| C                                                                                                  |                        |                             | Cond. Power Before Test (W)                  | 1             |                                                                                | 2             |                | 3                      |                                      | Cond. Power Before Test (W) | 4             |   | 5             |  | 6                      |  |
| R                                                                                                  | Antenna Accessory ID # | Test Freq. (MHz)            |                                              | SAR W/kg (1g) |                                                                                | SAR W/kg (1g) |                | Battery Accessory ID # |                                      |                             | SAR W/kg (1g) |   | SAR W/kg (1g) |  | Battery Accessory ID # |  |
|                                                                                                    |                        |                             |                                              | 100% ptt d/f  |                                                                                | 50% ptt d/f   |                |                        |                                      |                             | 100% ptt d/f  |   | 50% ptt d/f   |  |                        |  |
|                                                                                                    |                        |                             |                                              | Drift (dB)    |                                                                                | 50%+droop     |                |                        |                                      |                             | Drift dB      |   | 50%+droop     |  |                        |  |
| 1                                                                                                  | 1                      | 764.0                       | 2.93                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |               |  |                        |  |
| 2                                                                                                  |                        | 776.0                       | 2.96                                         | N/A           |                                                                                |               |                | 2.95                   | N/A                                  |                             |               |   |               |  |                        |  |
| 3                                                                                                  |                        | 794.0                       | 2.90                                         | B77           | 2.21                                                                           | 1.11          | d              | 2.93                   | B44                                  | 3.06                        | 1.53          | d |               |  |                        |  |
| 4                                                                                                  |                        |                             |                                              |               | -0.071                                                                         | 1.12          |                |                        |                                      | -1.74                       | 2.28          |   |               |  |                        |  |
| 5                                                                                                  |                        | 805.0                       | 2.95                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |               |  |                        |  |
| 6                                                                                                  |                        | 806.0                       | 3.20                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 7                                                                                                  |                        | 824.0                       | 3.19                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 8                                                                                                  |                        | 851.0                       | 3.13                                         | N/A           |                                                                                |               |                | 3.16                   | N/A                                  |                             |               |   |               |  |                        |  |
| 9                                                                                                  |                        | 869.0                       | 3.17                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 10                                                                                                 | 2                      | 764.0                       | 2.93                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |               |  |                        |  |
| 11                                                                                                 |                        | 776.0                       | 2.96                                         | N/A           |                                                                                |               |                | 2.95                   | N/A                                  |                             |               |   |               |  |                        |  |
| 12                                                                                                 |                        | 794.0                       | 2.90                                         | B78           | 5.24                                                                           | 2.62          | d              | 2.93                   | B48                                  | 7.23                        | 3.62          | d |               |  |                        |  |
| 13                                                                                                 |                        |                             |                                              |               | -0.001                                                                         | 2.62          |                |                        |                                      | -0.247                      | 3.83          |   |               |  |                        |  |
| 14                                                                                                 |                        | 805.0                       | 2.95                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |               |  |                        |  |
| 15                                                                                                 |                        | 806.0                       | 3.20                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 16                                                                                                 |                        | 824.0                       | 3.19                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 17                                                                                                 |                        | 851.0                       | 3.13                                         | N/A           |                                                                                |               |                | 3.16                   | N/A                                  |                             |               |   |               |  |                        |  |
| 18                                                                                                 |                        | 869.0                       | 3.17                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| SAR LIMITS                                                                                         |                        |                             |                                              |               | BODY                                                                           |               | SPATIAL PEAK   |                        | RF EXPOSURE CATEGORY                 |                             |               |   |               |  |                        |  |
| FCC 47 CFR 2.1093                                                                                  |                        | Health Canada Safety Code 6 |                                              |               | 8.0 W/kg                                                                       |               | 1 gram average |                        | Occupational / Controlled            |                             |               |   |               |  |                        |  |
| Notes                                                                                              |                        |                             |                                              |               |                                                                                |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| Test Mode = CW (Unmodulated Continuous Wave)                                                       |                        |                             |                                              |               | Phantom = Barski Planar Phantom                                                |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| C = Column; R = Row                                                                                |                        |                             |                                              |               | Bx (B = Body) denotes the corresponding Body SAR Plot # as shown in Appendix A |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| N/A = Not Applicable                                                                               |                        |                             |                                              |               | Test reduction procedures applied for Scan model = FCC KDB Inquiry #235657     |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| Back of DUT Distance to Planar Phantom (see Appendix D) (Back of Radio Parallel to Planar Phantom) |                        |                             |                                              |               | Shortest Antenna Distance to Planar Phantom (see Appendix D)                   |               |                |                        |                                      |                             |               |   |               |  |                        |  |
|                                                                                                    |                        |                             |                                              |               | Antenna 1                                                                      |               |                |                        | Antenna 2                            |                             |               |   |               |  |                        |  |
| 3.2 cm                                                                                             |                        |                             |                                              |               | 3.3 cm                                                                         |               |                |                        | 3.3 cm                               |                             |               |   |               |  |                        |  |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 30 of 208                                                                        |

|                                                                                                                          |                                                |                                                    |                                                    |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                                                        |

## BODY-WORN SAR EVALUATION RESULTS (System & Scan Radio Model Variant Comparison)

| TABLE 12                                                                                           |                        |                             | XG-25P 7/800 SCAN Radio Keypad Variant Model |               |                                                                                |               |                |                        | XG-25P 7/800 SYSTEM Radio Base Model |                             |               |   |               |  |                        |  |
|----------------------------------------------------------------------------------------------------|------------------------|-----------------------------|----------------------------------------------|---------------|--------------------------------------------------------------------------------|---------------|----------------|------------------------|--------------------------------------|-----------------------------|---------------|---|---------------|--|------------------------|--|
| Body-worn Accessory ID#                                                                            |                        |                             | 6 (Additional)                               |               |                                                                                |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| Audio Accessory ID #                                                                               |                        |                             | G3a (Default)                                |               |                                                                                |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| C                                                                                                  |                        |                             | Cond. Power Before Test (W)                  | 1             |                                                                                | 2             |                | 3                      |                                      | Cond. Power Before Test (W) | 4             |   | 5             |  | 6                      |  |
| R                                                                                                  | Antenna Accessory ID # | Test Freq. (MHz)            |                                              | SAR W/kg (1g) |                                                                                | SAR W/kg (1g) |                | Battery Accessory ID # |                                      |                             | SAR W/kg (1g) |   | SAR W/kg (1g) |  | Battery Accessory ID # |  |
|                                                                                                    |                        |                             |                                              | 100% ptt d/f  |                                                                                | 50% ptt d/f   |                |                        |                                      |                             | 100% ptt d/f  |   | 50% ptt d/f   |  |                        |  |
|                                                                                                    |                        |                             |                                              | Drift (dB)    |                                                                                | 50%+droop     |                | Drift dB               |                                      |                             | 50%+droop     |   |               |  |                        |  |
| 1                                                                                                  | 1                      | 764.0                       | 2.93                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |               |  |                        |  |
| 2                                                                                                  |                        | 776.0                       | 2.96                                         | N/A           |                                                                                |               |                | 2.95                   | N/A                                  |                             |               |   |               |  |                        |  |
| 3                                                                                                  |                        | 794.0                       | 2.90                                         | B79           | 1.78                                                                           | 0.890         | d              | 2.93                   | B58                                  | 1.76                        | 0.880         | d |               |  |                        |  |
| 4                                                                                                  |                        |                             |                                              |               | -0.241                                                                         | 0.941         |                |                        |                                      | -0.279                      | 0.938         |   |               |  |                        |  |
| 5                                                                                                  |                        | 805.0                       | 2.95                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |               |  |                        |  |
| 6                                                                                                  |                        | 806.0                       | 3.20                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 7                                                                                                  |                        | 824.0                       | 3.19                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 8                                                                                                  |                        | 851.0                       | 3.13                                         | N/A           |                                                                                |               |                | 3.16                   | N/A                                  |                             |               |   |               |  |                        |  |
| 9                                                                                                  |                        | 869.0                       | 3.17                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 10                                                                                                 | 2                      | 764.0                       | 2.93                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |               |  |                        |  |
| 11                                                                                                 |                        | 776.0                       | 2.96                                         | N/A           |                                                                                |               |                | 2.95                   | N/A                                  |                             |               |   |               |  |                        |  |
| 12                                                                                                 |                        | 794.0                       | 2.90                                         | B80           | 2.90                                                                           | 1.45          | d              | 2.93                   | B62                                  | 2.80                        | 1.40          | d |               |  |                        |  |
| 13                                                                                                 |                        |                             |                                              |               | -0.168                                                                         | 1.51          |                |                        |                                      | -0.225                      | 1.47          |   |               |  |                        |  |
| 14                                                                                                 |                        | 805.0                       | 2.95                                         | N/A           |                                                                                |               |                | 2.90                   | N/A                                  |                             |               |   |               |  |                        |  |
| 15                                                                                                 |                        | 806.0                       | 3.20                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 16                                                                                                 |                        | 824.0                       | 3.19                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| 17                                                                                                 |                        | 851.0                       | 3.13                                         | N/A           |                                                                                |               |                | 3.16                   | N/A                                  |                             |               |   |               |  |                        |  |
| 18                                                                                                 |                        | 869.0                       | 3.17                                         | N/A           |                                                                                |               |                | 3.20                   | N/A                                  |                             |               |   |               |  |                        |  |
| SAR LIMITS                                                                                         |                        |                             |                                              |               | BODY                                                                           |               | SPATIAL PEAK   |                        | RF EXPOSURE CATEGORY                 |                             |               |   |               |  |                        |  |
| FCC 47 CFR 2.1093                                                                                  |                        | Health Canada Safety Code 6 |                                              |               | 8.0 W/kg                                                                       |               | 1 gram average |                        | Occupational / Controlled            |                             |               |   |               |  |                        |  |
| Notes                                                                                              |                        |                             |                                              |               |                                                                                |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| Test Mode = CW (Unmodulated Continuous Wave)                                                       |                        |                             |                                              |               | Phantom = Barski Planar Phantom                                                |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| C = Column; R = Row                                                                                |                        |                             |                                              |               | Bx (B = Body) denotes the corresponding Body SAR Plot # as shown in Appendix A |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| N/A = Not Applicable                                                                               |                        |                             |                                              |               | Test reduction procedures applied for Scan model = FCC KDB Inquiry #235657     |               |                |                        |                                      |                             |               |   |               |  |                        |  |
| Back of DUT Distance to Planar Phantom (see Appendix D) (Back of Radio Parallel to Planar Phantom) |                        |                             |                                              |               | Shortest Antenna Distance to Planar Phantom (see Appendix D)                   |               |                |                        |                                      |                             |               |   |               |  |                        |  |
|                                                                                                    |                        |                             |                                              |               | Antenna 1                                                                      |               |                |                        | Antenna 2                            |                             |               |   |               |  |                        |  |
| 3.5 cm                                                                                             |                        |                             |                                              |               | 3.7 cm                                                                         |               |                |                        | 3.7 cm                               |                             |               |   |               |  |                        |  |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 31 of 208                                                                        |

|                                                                                  |                                                |                                                    |                                                    |                                                                                    |
|----------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------|
|  | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) |  |
|                                                                                  | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                    |

Test Lab Certificate No. 2470.01

## 10.0 SAR SCALING (TUNE-UP TOLERANCE)

### SCALING OF MAXIMUM SAR LEVELS TO MANUFACTURER'S TUNE-UP TOLERANCE SPECIFICATION

| Test Config.      | Test Freq. (MHz) | Antenna Accessory ID #      | Battery Accessory ID # | Body-worn Accessory ID # | Conducted Power Before Test | SAR Level 1g (50% PTT d/f) |                           | Scaling up to Manuf. Upper Tol. Power Spec. | Scaled SAR (50% PTT d/f) 1g (W/kg) |
|-------------------|------------------|-----------------------------|------------------------|--------------------------|-----------------------------|----------------------------|---------------------------|---------------------------------------------|------------------------------------|
|                   |                  |                             |                        |                          | Watts                       | W/kg                       | Plot #                    |                                             |                                    |
| Body-worn         | 794.0            | 2                           | d                      | 4                        | 2.93                        | 3.62                       | B48                       | +0.03 dB                                    | 3.65                               |
| SAR LIMITS        |                  |                             |                        |                          | BODY                        | SPATIAL PEAK               | RF EXPOSURE CATEGORY      |                                             |                                    |
| FCC 47 CFR 2.1093 |                  | Health Canada Safety Code 6 |                        |                          | 8.0 W/kg                    | 1 gram average             | Occupational / Controlled |                                             |                                    |

Manufacturer's Rated Output Power Specification inc. Upper Tolerance

700 Band = 2.95 Watts

## 11.0 SIMULTANEOUS TRANSMISSION ASSESSMENT

Simultaneous Transmission: 7/800 PTT and 2.4GHz Bluetooth  
Antenna-to-Antenna Distance: 46.4 mm  
Bluetooth Rated Output Power: 2.5 mW  
P<sub>Ref</sub> (FCC KDB 648474, Table 2): 12 (2.45 GHz)

| Test Config.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | MAX.SAR LEVEL (1g)  |           | SUM OF SAR LEVELS | FCC/IC SAR LIMIT (Occupational) |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------|-----------|-------------------|---------------------------------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 7/800 PTT (50% D/F) | BLUETOOTH |                   |                                 |
| Body-worn                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3.62 W/kg           | 0*        | 3.62 W/kg (1g)    | 8.0 W/kg (1g)                   |
| <p>* Notes:</p> <p><u>FCC KDB 648474 (D01v01r05), Section 4., footnote 12</u></p> <p>When stand-alone SAR is not required for a transmitter or antenna and the antenna is between 2.5 and 5.0 cm from other antennas, its SAR is considered zero in the 1-g SAR summing process to determine simultaneous transmission SAR evaluation requirements.</p> <p><u>FCC KDB 648474 (D01v01r05), Table 2</u></p> <p>When there is simultaneous transmission – Stand-alone SAR not required when output <math>\leq P_{Ref}</math> and antenna is <math>\geq 2.5</math> cm from other antennas</p> |                     |           |                   |                                 |

### Summary

SAR evaluation for simultaneous transmission of the 700/800-band PTT and 2.4GHz Bluetooth was not required in accordance with the provision of FCC KDB 648474 (D01v01r05), Section 4. (see reference [16]) - when simultaneous transmission applies and the sum of the 1-g SAR measured for all simultaneous transmitting antennas is less than the SAR limit, SAR evaluation for simultaneous transmission is not required for all transmitters and antennas.

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 32 of 208                                                                        |

|                                                                                  |                                                |                                                    |                                                    |                                                                                    |
|----------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------|
|  | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) |  |
|                                                                                  | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                    |

Test Lab Certificate No. 2470.01

## 12.0 SAR PROBE CALIBRATION & MEASUREMENT FREQUENCIES

The following procedures are recommended for measurements at 150 MHz - 3 GHz 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 3 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 450824 D01 v01r01, SAR Probe Calibration and System Verification Considerations for Measurements at 150 MHz - 3 GHz - see reference [10]).

| Probe Calibration Freq. | Device Measurement Freq. | Frequency Interval | $\pm 50$ MHz $\geq 300$ MHz |
|-------------------------|--------------------------|--------------------|-----------------------------|
| 835 MHz                 | 764 MHz                  | 71 MHz             | $> 50 \text{ MHz}^2$        |
|                         | 776 MHz                  | 59 MHz             | $> 50 \text{ MHz}^2$        |
|                         | 794 MHz                  | 41 MHz             | $< 50 \text{ MHz}^1$        |
|                         | 805 MHz                  | 50 MHz             | $< 50 \text{ MHz}^1$        |
|                         | 806 MHz                  | 29 MHz             | $< 50 \text{ MHz}^1$        |
|                         | 824 MHz                  | 11 MHz             | $< 50 \text{ MHz}^1$        |
|                         | 851 MHz                  | 16 MHz             | $< 50 \text{ MHz}^1$        |
|                         | 869 MHz                  | 34 MHz             | $< 50 \text{ MHz}^1$        |

1. The probe calibration and measurement frequency interval is  $< 50$  MHz; therefore the additional steps were not required.

2. The probe calibration and measurement frequency interval is  $> 50$  MHz; therefore the following additional steps were implemented (per FCC KDB 450824 D01 v01r01): *The measured 1-g SAR may be compensated with respect to +5% tolerances in  $\epsilon_r$  and -5% tolerances in  $\sigma$ , computed according to valid SAR sensitivity data, to reduce SAR underestimation and maintain conservativeness.*

| Probe Calibration Frequency = 835 MHz |       |        |                     |             | Target Parameters: Head 41.5 $\epsilon_r$ / 0.9 $\sigma$ ~ Body 55.2 $\epsilon_r$ / 0.97 $\sigma$ |             |          |                              |    |             |
|---------------------------------------|-------|--------|---------------------|-------------|---------------------------------------------------------------------------------------------------|-------------|----------|------------------------------|----|-------------|
| Test Freq.                            | Date  | Tissue | $\sigma$            | Sensitivity | $\epsilon_r$                                                                                      | Sensitivity | % Change | Compensated SAR Level (W/kg) |    |             |
| 776 MHz                               | Sep 4 | Body   | -6.08% <sup>3</sup> | 0.59        | 1.09%                                                                                             | -0.57       | 4.21%    | 3.74                         | 1g | 50% ptt d/f |
| 776 MHz                               | Sep 5 | Body   | -5.98% <sup>3</sup> | 0.59        | 0.91%                                                                                             | -0.57       | 4.05%    | 3.36                         | 1g | 50% ptt d/f |
| 776 MHz                               | Sep 7 | Head   | -6.56% <sup>3</sup> | 0.59        | 3.13%                                                                                             | -0.57       | 5.65%    | 1.72                         | 1g | 50% ptt d/f |

### Parameter

$f=800 \text{ MHz}$ ,  $d=15 \text{ mm}$   
( $\epsilon_r=41.5$ ,  $\sigma=0.90 \text{ S/m}$ )

SAR Peak

SAR 1 g

SAR 10 g

- 0.70

+ 0.86

-

- 0.57

+ 0.59

0.10

- 0.45

+ 0.35

0.18

### Notes

1. The above sensitivity formula (Head) from the DASY4 manual (see reference [17]) can be applied to Body tissue parameters (per SPEAG SAR system manufacturer).

2. The highest measured SAR level configurations are reported.

3. FCC KDB 450824 refers to probe calibrations with fluid parameter tolerances  $\pm 5\%$ ; SPEAG's current probe calibration is valid for fluid parameter tolerances of  $\pm 10\%$  (See Appendix F). We have accounted for the  $> 5\%$  measured fluid parameter tolerance in the measurement uncertainty table (see Section 24.0) and have still applied the same sensitivity calculation adjustment to the SAR levels as shown in the above table.

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 33 of 208                                                                        |

|                                                                                                                          |                                                |                                                    |                                                    |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                                                        |

### 13.0 SAR LEVEL CORRECTION FOR FLUID DEVIATION (IC RSS-102 / IEC 62209-2)

The SAR levels are corrected for deviation of complex permittivity in accordance with Section 6.1.1 of IEC 62209-2:2010 (see reference [5]) as shown below.

| Test Config. | Date | Test Freq. (GHz) | Test_e | Test_s | Target_e | Target_s | Deviation Permittivity | Deviation Conductivity | Measured SAR Level 50% d/f (W/kg) | Corrected SAR Level 50% d/f (W/kg) |
|--------------|------|------------------|--------|--------|----------|----------|------------------------|------------------------|-----------------------------------|------------------------------------|
| Body         | 9/4  | 0.776*           | 55.8   | 0.911  | 55.2     | 0.97     | 1.09%                  | -6.08%                 | 3.59                              | 3.76                               |
| Body         | 9/4  | 0.794*           | 55.5   | 0.92   | 55.2     | 0.97     | 0.54%                  | -5.15%                 | 3.19                              | 3.32                               |
| Body         | 9/5  | 0.776*           | 55.7   | 0.912  | 55.2     | 0.97     | 0.91%                  | -5.98%                 | 3.23                              | 3.38                               |
| Face         | 9/7  | 0.776*           | 42.8   | 0.841  | 41.5     | 0.9      | 3.13%                  | -6.56%                 | 1.63                              | 1.72                               |
| Face         | 9/7  | 0.794*           | 42.5   | 0.85   | 41.5     | 0.9      | 2.41%                  | -5.56%                 | 1.45                              | 1.52                               |

\*interpolated using DASY4 software

SAR Correction Formula (IEC 62209-2:2010 Section 6.1.1)

$$\Delta \text{SAR} = c_e \Delta \epsilon_r + c_\sigma \Delta \sigma \quad (\text{F.1})$$

where

$c_e = \partial(\Delta \text{SAR})/\partial(\Delta \epsilon)$  is the coefficients representing the sensitivity of SAR to permittivity where SAR is normalized to output power;

$c_\sigma = \partial(\Delta \text{SAR})/\partial(\Delta \sigma)$  is the coefficients representing the sensitivity of SAR to conductivity, where SAR is normalized to output power.

The values of  $c_e$  and  $c_\sigma$  have a simple relationship with frequency that can be described using polynomial equations. For the 1 g averaged SAR  $c_e$  and  $c_\sigma$  are given by

$$c_e = -7,854 \times 10^{-4} f^3 + 9,402 \times 10^{-3} f^2 - 2,742 \times 10^{-2} f - 0,2026 \quad (\text{F.2})$$

$$c_\sigma = 9,804 \times 10^{-3} f^3 - 8,661 \times 10^{-2} f^2 + 2,981 \times 10^{-2} f + 0,7829 \quad (\text{F.3})$$

where

$f$  is the frequency in GHz.

SAR Correction Calculation

| Date            | 04-Sep  | 04-Sep  | 05-Sep  | 07-Sep  | 07-Sep  |
|-----------------|---------|---------|---------|---------|---------|
| Frequency (GHz) | 0.776   | 0.794   | 0.776   | 0.776   | 0.794   |
| Ce              | -0.2186 | -0.2188 | -0.2186 | -0.2186 | -0.2188 |
| Cσ              | 0.7585  | 0.7569  | 0.7585  | 0.7585  | 0.7569  |
| Δ E             | 1.09%   | 0.54%   | 0.91%   | 3.13%   | 2.41%   |
| Δσ              | -6.08%  | -5.15%  | -5.98%  | -6.56%  | -5.56%  |
| ΔSAR            | -4.85%  | -4.02%  | -4.73%  | -5.66%  | -4.74%  |

#### Conclusion

The correction ΔSAR has a negative sign; therefore correction is applied to the measured SAR level.

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 34 of 208                                                                        |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |
| Test Lab Certificate No. 2470.01                                                 |                                                       |                                                           |                                                           |                                                                                    |

## 14.0 DETAILS OF SAR EVALUATION

- 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 Section 6) c) (see reference [8]).
- The DUT was evaluated for SAR in accordance with the procedures described in FCC KDB 643646 (see reference [9]).
- The SAR evaluations were performed with a fully charged battery.
- 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.
- The fluid temperature remained within +/-2°C from the fluid dielectric parameter measurement to the completion of the SAR evaluation.
- 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).
- 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.
- The face-held SAR evaluations were performed with the UDC Weatherproof Cover accessory (Harris P/N: FM-014712) attached to the accessory connector on the DUT. The accessory cover was removed for the body-worn SAR evaluations, in order for the DUT to accommodate the audio accessories.

## 15.0 SAR EVALUATION PROCEDURES

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

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 35 of 208                                                                        |

|                                                                                                                          |                                                |                                                    |                                                    |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                                                        |

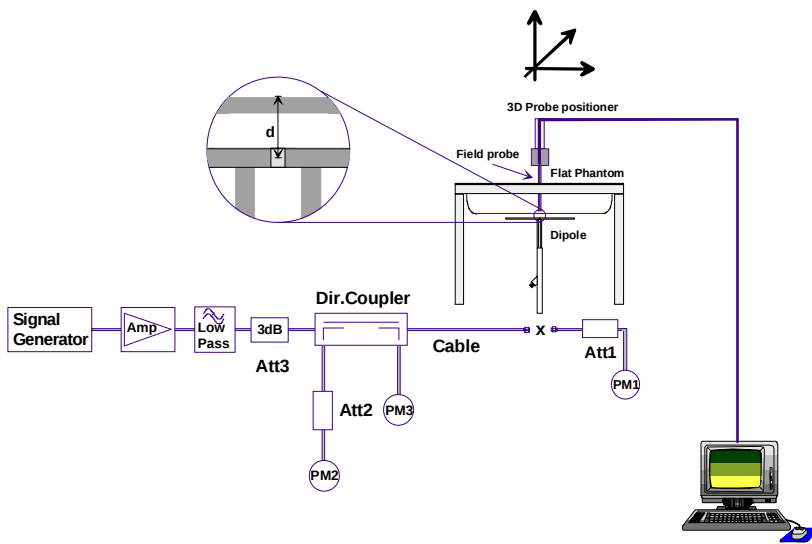
## 16.0 SYSTEM PERFORMANCE CHECK

Prior to the SAR evaluations, system checks were performed with a planar phantom and an 835 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 250 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).

### SYSTEM PERFORMANCE CHECK EVALUATIONS

| Test Date | Equiv. Tissue | SAR 1g (W/kg)   |       |       | Dielectric Constant $\epsilon_r$ |       |       | Conductivity $\sigma$ (mho/m) |       |       | $\rho$ (Kg/m <sup>3</sup> ) | Amb. Temp. (°C) | Fluid Temp. (°C) | Fluid Depth (cm) | Humid. (%) | Barom. Press. (kPa) |
|-----------|---------------|-----------------|-------|-------|----------------------------------|-------|-------|-------------------------------|-------|-------|-----------------------------|-----------------|------------------|------------------|------------|---------------------|
|           |               | Target          | Meas. | Dev.  | Target                           | Meas. | Dev.  | Target                        | Meas. | Dev.  |                             |                 |                  |                  |            |                     |
| Sept. 4   | Body 835      | 2.47 $\pm 10\%$ | 2.42  | -2.8% | 55.2 $\pm 5\%$                   | 55.2  | 0.0%  | 0.97 $\pm 5\%$                | 0.96  | -1.0% | 1000                        | 23              | 22.5             | $\geq 15$        | 34         | 101.1               |
| Sept. 7   | Body 835      | 2.47 $\pm 10\%$ | 2.36  | -5.2% | 55.2 $\pm 5\%$                   | 54.2  | -1.8% | 0.97 $\pm 5\%$                | 0.96  | -1.0% | 1000                        | 23              | 22.5             | $\geq 15$        | 30         | 101.1               |
| Sept. 7   | Head 835      | 2.36 $\pm 10\%$ | 2.24  | -4.7% | 41.5 $\pm 5\%$                   | 42.1  | +1.4% | 0.90 $\pm 5\%$                | 0.88  | -2.2% | 1000                        | 23              | 22.9             | $\geq 15$        | 30         | 101.1               |

|       |    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
|-------|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Notes | 1. | The target SAR values are the measured values specified by the SAR system manufacturer in the dipole calibration document (see Appendix E).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
|       | 2. | The target fluid dielectric parameters are the nominal values specified by the SAR system manufacturer in the dipole calibration document (see Appendix E) and specified in IEEE Standard 1528-2003 (Head) and IC RSS-102 Issue 4 (Body).                                                                                                                                                                                                                                                                                                                                                                                                                      |
|       | 3. | The fluid temperature remained within $\pm 2^\circ\text{C}$ from the fluid dielectric parameter measurement to the completion of the system performance check.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|       | 4. | 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).                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|       | 5. | System Performance Checks were not performed for all the SAR evaluation test dates based on compliance with the following provision as per the TCBC Workshop Presentation April 5-7, 2011 (Kwok Chan Presentation File 04-06-2011-FCC 4 RF Exposure Guidance 040611- KC):<br><u>SAR System Verification</u><br>when head and body tissue dielectric parameters are required to test a device, separate SAR system verifications are required<br>- daily verification of each liquid is usually not necessary when liquid parameter tolerances are maintained in a controlled environment<br>- typically every few days is sufficient or when liquid is changed |



System Performance Check Measurement Setup Diagram (IEEE Standard 1528-2003)



835 MHz SPEAG Validation Dipole Setup

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 36 of 208                                                                        |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |

Test Lab Certificate No. 2470.01

## 17.0 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 [11] and [12]) 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                | Water       | 835 MHz Head<br>Tissue Mixture | 40.71 % | 835 MHz Body<br>Tissue Mixture | 53.79 % |
|                           | Sugar       |                                | 56.63 % |                                | 45.13 % |
|                           | Salt        |                                | 1.48 %  |                                | 0.98 %  |
|                           | HEC         |                                | 0.99 %  |                                | --      |
|                           | Bactericide |                                | 0.19 %  |                                | 0.10 %  |

## 18.0 SAR LIMITS

| SAR RF EXPOSURE LIMITS                                                                                                                                                                         |                             |                                                 |                                         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------|-----------------------------------------|
| FCC 47 CFR 2.1093                                                                                                                                                                              | Health Canada Safety Code 6 | (General Population /<br>Uncontrolled Exposure) | (Occupational /<br>Controlled Exposure) |
| Spatial Average<br>(averaged over the whole body)                                                                                                                                              |                             | 0.08 W/kg                                       | 0.4 W/kg                                |
| Spatial Peak<br>(averaged over any 1 g of tissue)                                                                                                                                              |                             | 1.6 W/kg                                        | 8.0 W/kg                                |
| Spatial Peak<br>(hands/wrists/feet/ankles averaged over 10 g)                                                                                                                                  |                             | 4.0 W/kg                                        | 20.0 W/kg                               |
| The Spatial Average value of the SAR averaged over the whole body.                                                                                                                             |                             |                                                 |                                         |
| The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.                              |                             |                                                 |                                         |
| The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.                            |                             |                                                 |                                         |
| Uncontrolled environments are defined as locations where there is potential exposure of individuals who have no knowledge or control of their potential exposure.                              |                             |                                                 |                                         |
| Controlled environments are defined as locations where there is potential exposure of individuals who have knowledge of their potential exposure and can exercise control over their exposure. |                             |                                                 |                                         |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 37 of 208                                                                        |

|                                                                                                                          |                                                       |                                                           |                                                           |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

## 19.0 ROBOT SYSTEM SPECIFICATIONS

|                                                 |                                                                                   |
|-------------------------------------------------|-----------------------------------------------------------------------------------|
| <u>Specifications</u>                           |                                                                                   |
| Positioner                                      | Stäubli Unimation Corp. Robot Model: RX60L                                        |
| Repeatability                                   | 0.02 mm                                                                           |
| No. of axis                                     | 6                                                                                 |
| <u>Data Acquisition Electronic (DAE) System</u> |                                                                                   |
| <u>Cell Controller</u>                          |                                                                                   |
| Processor                                       | AMD Athlon XP 2400+                                                               |
| Clock Speed                                     | 2.0 GHz                                                                           |
| Operating System                                | Windows XP Professional                                                           |
| <u>Data Converter</u>                           |                                                                                   |
| Features                                        | Signal Amplifier, multiplexer, A/D converter, and control logic                   |
| Software                                        | Measurement Software: DASY4, V4.7 Build 44                                        |
|                                                 | Postprocessing Software: SEMCAD, V1.8 Build 171                                   |
| Connecting Lines                                | Optical downlink for data and status info., Optical uplink for commands and clock |
| <u>DASY4 Measurement Server</u>                 |                                                                                   |
| 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                               |
| <u>E-Field Probe</u>                            |                                                                                   |
| 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)                                                         |
| <u>Phantom 1</u>                                |                                                                                   |
| Type                                            | SAM V4.0C                                                                         |
| Shell Material                                  | Fiberglass                                                                        |
| Thickness                                       | 2.0 ±0.1 mm                                                                       |
| Volume                                          | Approx. 25 liters                                                                 |
| <u>Phantom 2</u>                                |                                                                                   |
| Type                                            | Side Planar Phantom                                                               |
| Shell Material                                  | Plexiglass                                                                        |
| Bottom Thickness                                | 2.0 mm ± 0.1 mm                                                                   |
| Inner Dimensions                                | 72.6 cm (L) x 20.3 cm (W) x 20.3 cm (H)                                           |
| <u>Phantom 3</u>                                |                                                                                   |
| Type                                            | Barski Planar Phantom                                                             |
| Shell Material                                  | Fiberglass                                                                        |
| Thickness                                       | 2.0 ±0.1 mm                                                                       |
| Volume                                          | Approx. 70 liters                                                                 |

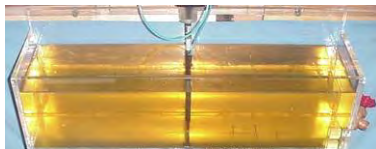
|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 38 of 208                                                                        |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                                                                       |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |   |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                                                                       |
| Test Lab Certificate No. 2470.01                                                 |                                                       |                                                           |                                                           |                                                                                                                                                                       |

## 20.0 PROBE SPECIFICATION (ET3DV6)

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

## 21.0 PHANTOM(S)

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                       |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>The Side Planar Phantom is constructed of Plexiglas material with a 2.0 mm shell thickness for face-held and body-worn SAR evaluations of portable radio transceivers. The side planar phantom is mounted on the side of the DASY4 compact system table.</p>                                                                                                                                                                                                                       |   |
| Plexiglas Side Planar Phantom                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                       |
| <p>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.</p> |  |
| Barski Planar Phantom                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                       |
| <p>The SAM Twin Phantom V4.0C is a fiberglass shell phantom with a 2.0 mm (+/- 0.2 mm) shell thickness for left and right head and flat planar area integrated in a wooden table. The shape of the fiberglass shell corresponds to the phantom defined by SCC34-SC2. The device holder positions are adjusted to the standard measurement positions in the three sections. See Appendix H for specifications of the SAM Twin Phantom V4.0C.</p>                                       |  |
| SAM Twin Phantom V4.0C                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                       |

## 22.0 DEVICE HOLDER

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                       |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| <p>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 <math>65^\circ</math>. 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.</p> |  |
| Device Holder                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                       |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 39 of 208                                                                        |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |

Test Lab Certificate No. 2470.01

## 23.0 TEST EQUIPMENT LIST

| TEST EQUIPMENT |                                          | ASSET NO. | SERIAL NO. | DATE CALIBRATED | CALIBRATION INTERVAL |
|----------------|------------------------------------------|-----------|------------|-----------------|----------------------|
| USED           | DESCRIPTION                              |           |            |                 |                      |
| x              | Schmid & Partner DASY4 System            | -         | -          | -               | -                    |
| x              | -DASY4 Measurement Server                | 00158     | 1078       | CNR             | CNR                  |
| x              | -Robot                                   | 00046     | 599396-01  | CNR             | CNR                  |
| x              | -DAE4                                    | 00019     | 353        | 19-Apr-12       | Biennial             |
| x              | -ET3DV6 E-Field Probe                    | 00017     | 1590       | 24-Apr-12       | Annual               |
| x              | -D835V2 Validation Dipole                | 00217     | 4d075      | 20-Apr-12       | Triennial            |
| x              | Side Planar Phantom                      | 00156     | 161        | CNR             | CNR                  |
| x              | Barski Planar Phantom                    | 00155     | 03-01      | CNR             | CNR                  |
| x              | SPEAG SAM Twin Phantom V4.0C             | 00154     | 1033       | CNR             | CNR                  |
| x              | HP 85070C Dielectric Probe Kit           | 00033     | none       | CNR             | CNR                  |
| x              | Gigatronics 8652A Power Meter            | 00007     | 1835272    | 03-May-12       | Biennial             |
| x              | Gigatronics 80701A Power Sensor          | 00014     | 1833542    | 03-May-12       | Biennial             |
|                | 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             |
| x              | Amplifier Research 5S1G4 Power Amplifier | 00106     | 26235      | CNR             | CNR                  |
| Abbr.          | CNR = Calibration Not Required           |           |            |                 |                      |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 40 of 208                                                                        |

|                                                                                  |                                                |                                                    |                                                    |                                                                                    |
|----------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------|
|  | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) |  |
|                                                                                  | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                    |

Test Lab Certificate No. 2470.01

## 24.0 MEASUREMENT UNCERTAINTIES

| UNCERTAINTY BUDGET FOR DEVICE EVALUATION (IEEE 1528-2003)                                                                              |                   |                           |                          |             |       |        |                                |                                 |                    |
|----------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------------------|--------------------------|-------------|-------|--------|--------------------------------|---------------------------------|--------------------|
| Uncertainty Component                                                                                                                  | IEEE 1528 Section | Uncertainty Value $\pm\%$ | Probability Distribution | Divisor     | ci 1g | ci 10g | Uncertainty Value $\pm\%$ (1g) | Uncertainty Value $\pm\%$ (10g) | $V_i$ or $V_{eff}$ |
| <b>Measurement System</b>                                                                                                              |                   |                           |                          |             |       |        |                                |                                 |                    |
| Probe Calibration (835 MHz)                                                                                                            | E.2.1             | 6.0                       | Normal                   | 1           | 1     | 1      | 6.0                            | 6.0                             | $\infty$           |
| Axial Isotropy                                                                                                                         | E.2.2             | 4.7                       | Rectangular              | 1.732050808 | 0.7   | 0.7    | 1.9                            | 1.9                             | $\infty$           |
| Hemispherical Isotropy                                                                                                                 | E.2.2             | 9.6                       | Rectangular              | 1.732050808 | 0.7   | 0.7    | 3.9                            | 3.9                             | $\infty$           |
| Boundary Effect                                                                                                                        | E.2.3             | 1                         | Rectangular              | 1.732050808 | 1     | 1      | 0.6                            | 0.6                             | $\infty$           |
| Linearity                                                                                                                              | E.2.4             | 4.7                       | Rectangular              | 1.732050808 | 1     | 1      | 2.7                            | 2.7                             | $\infty$           |
| System Detection Limits                                                                                                                | E.2.5             | 1                         | Rectangular              | 1.732050808 | 1     | 1      | 0.6                            | 0.6                             | $\infty$           |
| Readout Electronics                                                                                                                    | E.2.6             | 0.3                       | Normal                   | 1           | 1     | 1      | 0.3                            | 0.3                             | $\infty$           |
| Response Time                                                                                                                          | E.2.7             | 0.8                       | Rectangular              | 1.732050808 | 1     | 1      | 0.5                            | 0.5                             | $\infty$           |
| Integration Time                                                                                                                       | E.2.8             | 2.6                       | Rectangular              | 1.732050808 | 1     | 1      | 1.5                            | 1.5                             | $\infty$           |
| RF Ambient Conditions                                                                                                                  | E.6.1             | 3                         | Rectangular              | 1.732050808 | 1     | 1      | 1.7                            | 1.7                             | $\infty$           |
| Probe Positioner Mechanical Tolerance                                                                                                  | E.6.2             | 0.4                       | Rectangular              | 1.732050808 | 1     | 1      | 0.2                            | 0.2                             | $\infty$           |
| Probe Positioning wrt Phantom Shell                                                                                                    | E.6.3             | 2.9                       | Rectangular              | 1.732050808 | 1     | 1      | 1.7                            | 1.7                             | $\infty$           |
| Extrapolation, interpolation & integration algorithms for max. SAR evaluation                                                          | E.5               | 1                         | Rectangular              | 1.732050808 | 1     | 1      | 0.6                            | 0.6                             | $\infty$           |
| <b>Test Sample Related</b>                                                                                                             |                   |                           |                          |             |       |        |                                |                                 |                    |
| Test Sample Positioning                                                                                                                | E.4.2             | 2.9                       | Normal                   | 1           | 1     | 1      | 2.9                            | 2.9                             | 12                 |
| Device Holder Uncertainty                                                                                                              | E.4.1             | 3.6                       | Normal                   | 1           | 1     | 1      | 3.6                            | 3.6                             | 8                  |
| SAR Drift Measurement                                                                                                                  | 6.6.2             | 5                         | Rectangular              | 1.732050808 | 1     | 1      | 2.9                            | 2.9                             | $\infty$           |
| <b>Phantom and Tissue Parameters</b>                                                                                                   |                   |                           |                          |             |       |        |                                |                                 |                    |
| Phantom Uncertainty                                                                                                                    | E.3.1             | 4                         | Rectangular              | 1.732050808 | 1     | 1      | 2.3                            | 2.3                             | $\infty$           |
| Liquid Conductivity (target)                                                                                                           | E.3.2             | 5                         | Rectangular              | 1.732050808 | 0.64  | 0.43   | 1.8                            | 1.2                             | $\infty$           |
| Liquid Conductivity (measured)                                                                                                         | E.3.3             | 6.56                      | Normal                   | 1           | 0.64  | 0.43   | 4.2                            | 2.8                             | $\infty$           |
| Liquid Permittivity (target)                                                                                                           | E.3.2             | 5                         | Rectangular              | 1.732050808 | 0.6   | 0.49   | 1.7                            | 1.4                             | $\infty$           |
| Liquid Permittivity (measured)                                                                                                         | E.3.3             | 3.13                      | Normal                   | 1           | 0.6   | 0.49   | 1.9                            | 1.5                             | $\infty$           |
| <b>Combined Standard Uncertainty</b>                                                                                                   |                   |                           | <b>RSS</b>               |             |       |        | <b>11.58</b>                   | <b>10.97</b>                    |                    |
| <b>Expanded Uncertainty (95% Confidence Interval)</b>                                                                                  |                   |                           | <b>k=2</b>               |             |       |        | <b>23.16</b>                   | <b>21.94</b>                    |                    |
| Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003                                                               |                   |                           |                          |             |       |        |                                |                                 |                    |
| This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2 |                   |                           |                          |             |       |        |                                |                                 |                    |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              |                                                                                       |

|                                                                                  |                                                |                                                    |                                                    |                                                                                    |
|----------------------------------------------------------------------------------|------------------------------------------------|----------------------------------------------------|----------------------------------------------------|------------------------------------------------------------------------------------|
|  | Date(s) of Evaluation<br>September 04-07, 2012 | Test Report Serial No.<br>082712OWD-T1184-S90M     | Test Report Revision No.<br>Rev. 1.0 (1st Release) |  |
|                                                                                  | Test Report Issue Date<br>September 20, 2012   | Description of Test(s)<br>Specific Absorption Rate | RF Exposure Category<br>Occupational (Controlled)  |                                                                                    |

Test Lab Certificate No. 2470.01

## MEASUREMENT UNCERTAINTIES (CONT.)

| 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> |
| <b>Measurement System</b>                                                                                                              |                     |                            |                          |             |       |        |                              |                               |                                    |
| Probe Calibration (835 MHz)                                                                                                            | 7.2.2.1             | 6.0                        | Normal                   | 1           | 1     | 1      | 6.0                          | 6.0                           | ∞                                  |
| Isotropy                                                                                                                               | 7.2.2.2             | 4.7                        | Rectangular              | 1.732050808 | 1     | 1      | 2.7                          | 2.7                           | ∞                                  |
| Boundary Effect                                                                                                                        | 7.2.2.6             | 1                          | Rectangular              | 1.732050808 | 1     | 1      | 0.6                          | 0.6                           | ∞                                  |
| Linearity                                                                                                                              | 7.2.2.3             | 4.7                        | Rectangular              | 1.732050808 | 1     | 1      | 2.7                          | 2.7                           | ∞                                  |
| Detection Limits                                                                                                                       | 7.2.2.5             | 1                          | Rectangular              | 1.732050808 | 1     | 1      | 0.6                          | 0.6                           | ∞                                  |
| Readout Electronics                                                                                                                    | 7.2.2.7             | 0.3                        | Normal                   | 1           | 1     | 1      | 0.3                          | 0.3                           | ∞                                  |
| Response Time                                                                                                                          | 7.2.2.8             | 0.8                        | Rectangular              | 1.732050808 | 1     | 1      | 0.5                          | 0.5                           | ∞                                  |
| Integration Time                                                                                                                       | 7.2.2.9             | 2.6                        | Rectangular              | 1.732050808 | 1     | 1      | 1.5                          | 1.5                           | ∞                                  |
| 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                           | ∞                                  |
| Post-processing                                                                                                                        | 7.2.5               | 1                          | Rectangular              | 1.732050808 | 1     | 1      | 0.6                          | 0.6                           | ∞                                  |
| <b>Test Sample Related</b>                                                                                                             |                     |                            |                          |             |       |        |                              |                               |                                    |
| 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            | 5                          | Rectangular              | 1.732050808 | 1     | 1      | 2.9                          | 2.9                           | ∞                                  |
| <b>Phantom and Tissue Parameters</b>                                                                                                   |                     |                            |                          |             |       |        |                              |                               |                                    |
| 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                          | ∞                                  |
| Liquid Conductivity (measured)                                                                                                         | 7.2.4.3             | 6.56                       | Normal                   | 1           | 0.78  | 0.71   | 5.1                          | 4.7                           | ∞                                  |
| Liquid Permittivity (measured)                                                                                                         | 7.2.4.3             | 3.13                       | Normal                   | 1           | 0.23  | 0.26   | 0.7                          | 0.8                           | ∞                                  |
| 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                           | ∞                                  |
| <b>Combined Standard Uncertainty</b>                                                                                                   | <b>7.3.1</b>        |                            | <b>RSS</b>               |             |       |        | <b>11.11</b>                 | <b>10.89</b>                  |                                    |
| <b>Expanded Uncertainty (95% Confidence Interval)</b>                                                                                  | <b>7.3.2</b>        |                            | <b>k=2</b>               |             |       |        | <b>22.21</b>                 | <b>21.77</b>                  |                                    |
| Measurement Uncertainty Table in accordance with International Standard IEC 62209-2:2010                                               |                     |                            |                          |             |       |        |                              |                               |                                    |
| This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2 |                     |                            |                          |             |       |        |                              |                               |                                    |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 42 of 208                                                                        |

|                                                                                                                          |                                                       |                                                           |                                                           |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

## 25.0 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 body-mounted 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 D01v04: November 2009.
- [9] Federal Communications Commission, Office of Engineering and Technology - "SAR Test Reduction Considerations for Occupational PTT Radios", KDB 643646 D01v01r01: April 2011.
- [10] Federal Communications Commission, Office of Engineering and Technology - "Application Note: SAR Probe Calibration and System Verification Considerations for Measurements at 150 MHz - 3 GHz"; KDB 450824 D01 v01r01: January 2007.
- [11] Schmid & Partner Engineering AG - DASY4 Manual V4.6, Chapter 16 Application Note, Head Tissue Recipe: Sept. 2005.
- [12] Schmid & Partner Engineering AG - DASY4 Manual V4.6, Chapter 17 Application Note, Body Tissue Recipe: Sept. 2005.
- [13] ISO/IEC 17025 - "General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:2005)."
- [14] Federal Communications Commission - "Measurements Required: RF Power Output"; Rule Part 47 CFR §2.1046.
- [15] Industry Canada - "General Requirements and Information for the Certification of Radiocommunication Equipment", Radio Standards Specification RSS-Gen Issue 3: December 2010.
- [16] Federal Communications Commission, Office of Engineering and Technology - "SAR Evaluation Considerations for Handsets with Multiple Transmitters and Antennas", KDB 648474 D01v01r01: Sept. 2008.
- [17] Schmid & Partner Engineering AG - DASY4 Manual V4.6, Chapter 22 Application Note, SAR Sensitivities: Sept. 2005.

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 43 of 208                                                                        |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

## APPENDIX B - SYSTEM PERFORMANCE CHECK PLOTS

|                         |                                                                   |                                                                                                                      |                     |            |                   |                                                                                       |
|-------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------|------------|-------------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | <b>HARRIS Corporation</b>                                         | <b>FCC ID:</b>                                                                                                       | <b>OWDTR-0073-E</b> | <b>IC:</b> | <b>3636B-0073</b> |  |
| <b>DUT Type:</b>        | <b>Portable 700/800-Band PTT Radio Transceiver with Bluetooth</b> | <b>DUT Name:</b>                                                                                                     | <b>XG-25P 7/800</b> |            |                   |                                                                                       |
| 2012 Celltech Labs Inc. |                                                                   | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |                     |            |                   | Page 146 of 208                                                                       |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |

Test Lab Certificate No. 2470.01

Date Tested: 09/04/2012

## System Performance Check - 835 MHz Dipole - Body

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d075; Calibrated: 04/20/2012**

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 34%

Communication System: CW

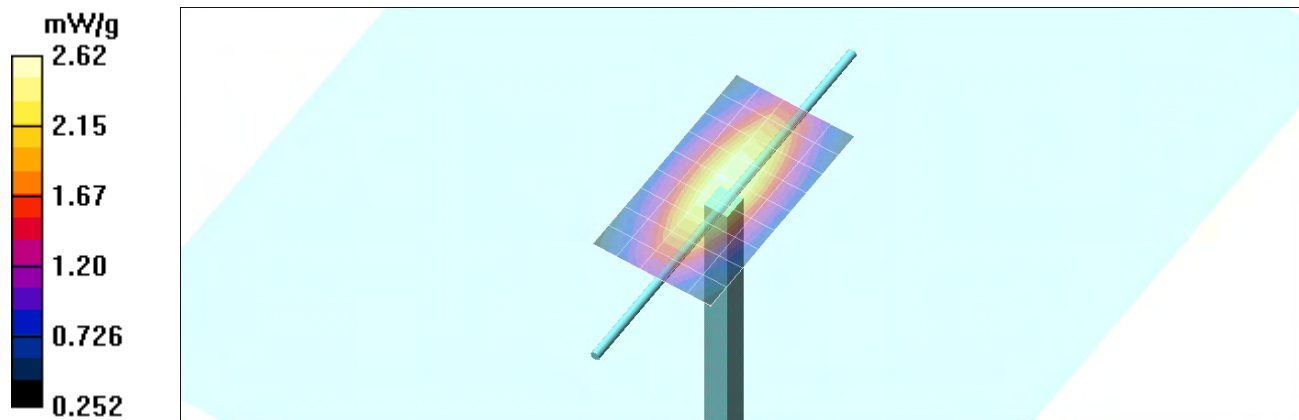
Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.96 \text{ mho/m}$ ;  $\epsilon_r = 55.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body d=15mm Pin=250mW/Area Scan (6x10x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$   
Maximum value of SAR (measured) = 2.48 mW/g

**Body d=15mm Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$   
Reference Value = 54.2 V/m; Power Drift = -0.011 dB  
Peak SAR (extrapolated) = 3.45 W/kg  
**SAR(1 g) = 2.42 mW/g; SAR(10 g) = 1.6 mW/g**  
Maximum value of SAR (measured) = 2.62 mW/g

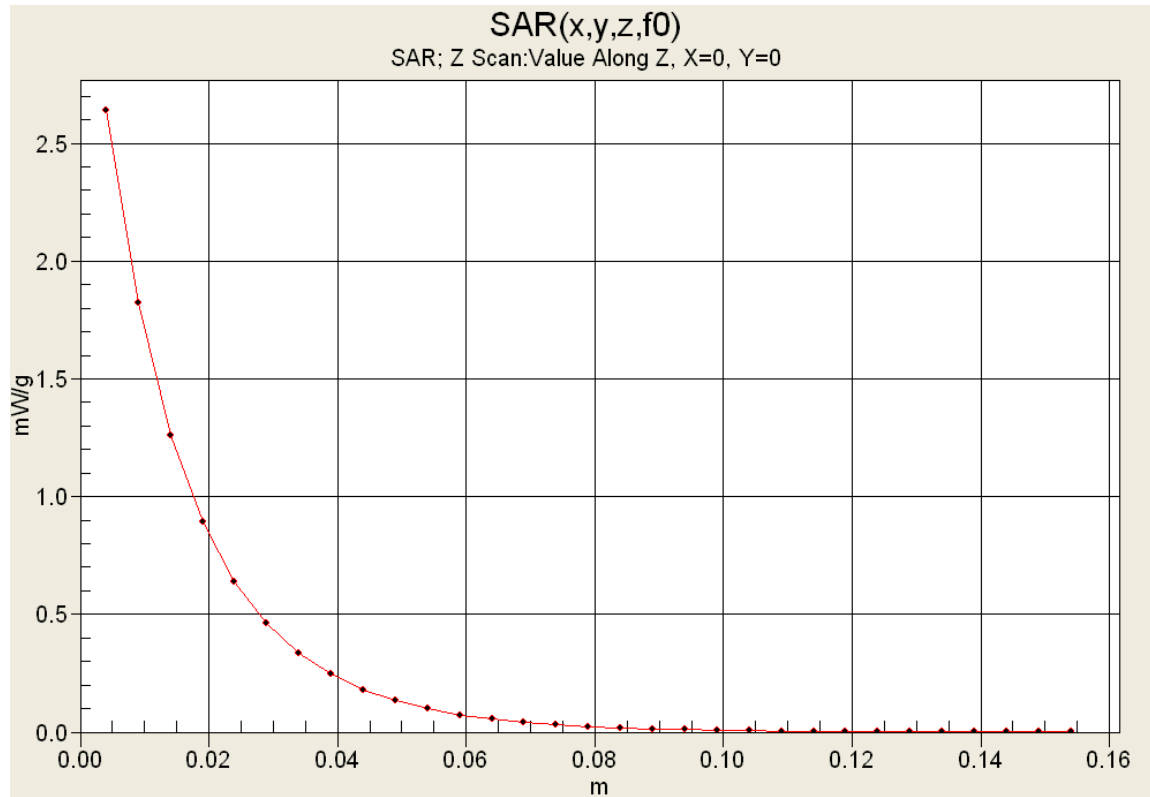


|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 147 of 208                                                                       |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |

Test Lab Certificate No. 2470.01

## Z-Axis Scan



|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 148 of 208                                                                       |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |

Date Tested: 09/07/2012

## System Performance Check - 835 MHz Dipole - Body

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d075; Calibrated: 04/20/2012**

Ambient Temp: 23C; Fluid Temp: 22.5C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: CW

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.96 \text{ mho/m}$ ;  $\epsilon_r = 54.2$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.54, 6.54, 6.54); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Body d=15mm Pin=250mW/Area Scan (6x10x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.41 mW/g

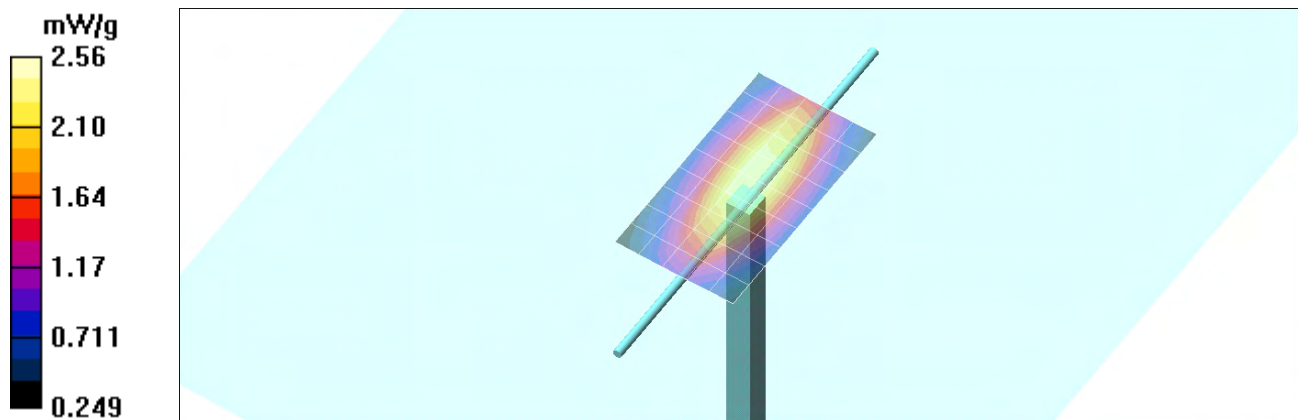
**Body d=15mm Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 53.2 V/m; Power Drift = 0.016 dB

Peak SAR (extrapolated) = 3.37 W/kg

**SAR(1 g) = 2.36 mW/g; SAR(10 g) = 1.56 mW/g**

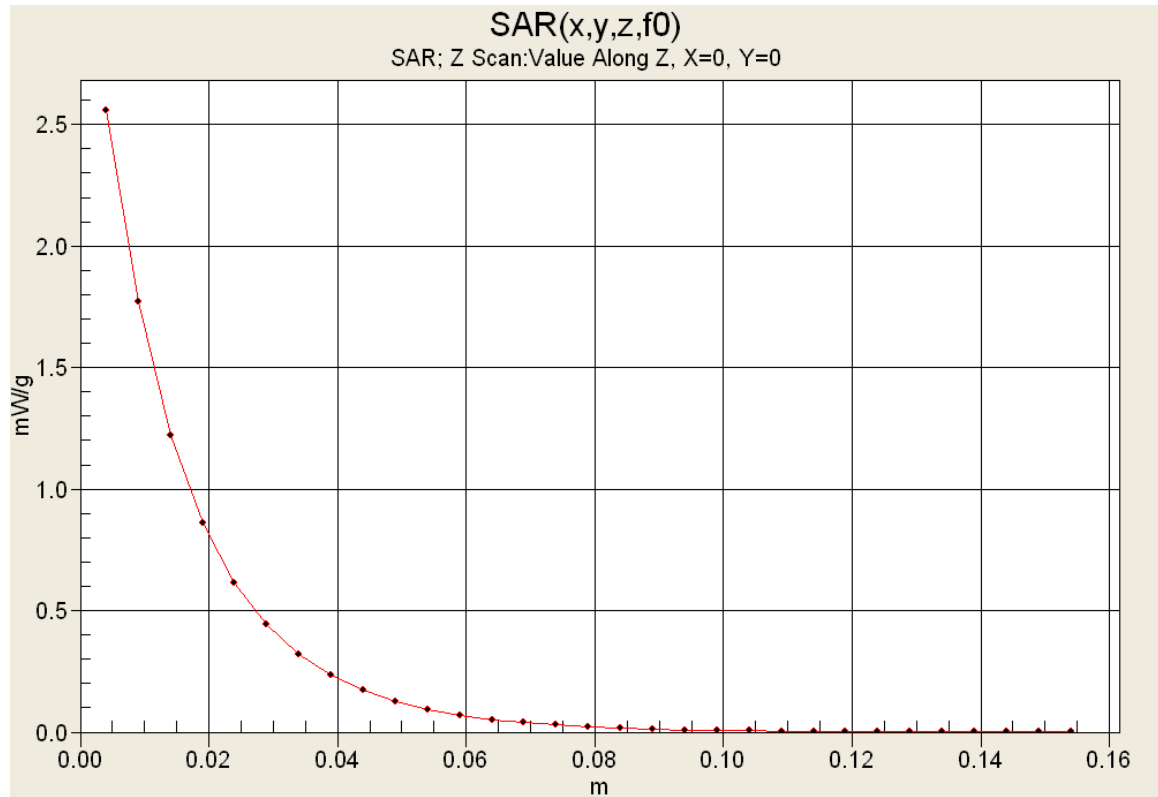
Maximum value of SAR (measured) = 2.56 mW/g



|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 149 of 208                                                                       |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |
| Test Lab Certificate No. 2470.01                                                 |                                                       |                                                           |                                                           |                                                                                    |

## Z-Axis Scan



|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 150 of 208                                                                       |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |

Date Tested: 09/07/2012

## System Performance Check - 835 MHz Dipole - Head

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d075; Calibrated: 04/20/2012**

Ambient Temp: 23C; Fluid Temp: 22.9C; Barometric Pressure: 101.1 kPa; Humidity: 30%

Communication System: CW

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: HSL835 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.88 \text{ mho/m}$ ;  $\epsilon_r = 42.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.77, 6.77, 6.77); Calibrated: 24/04/2012
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 19/04/2012
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 80; Postprocessing SW: SEMCAD, V1.8 Build 186

**Head d=15mm Pin=250mW/Area Scan (6x10x1):** Measurement grid: dx=10mm, dy=10mm

Maximum value of SAR (measured) = 2.37 mW/g

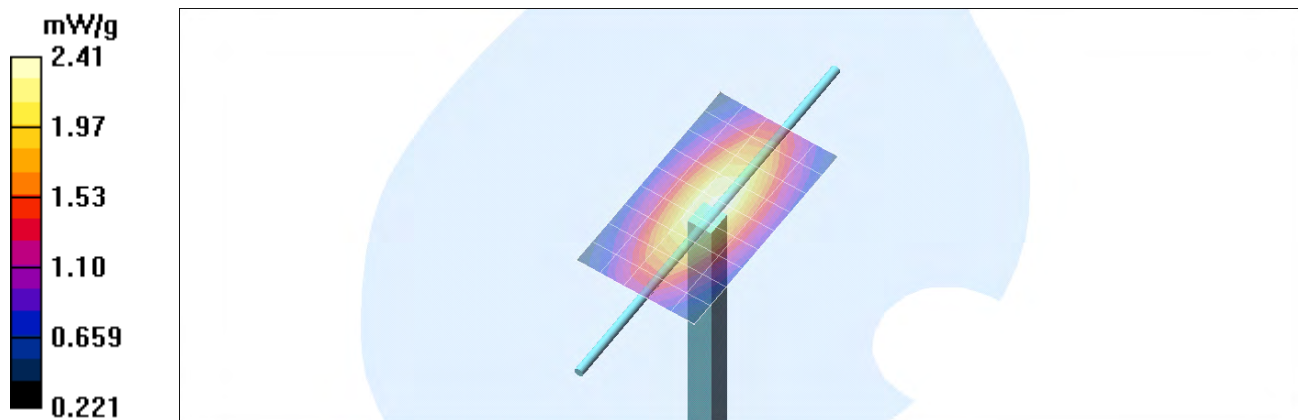
**Head d=15mm Pin=250mW/Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 54.6 V/m; Power Drift = -0.016 dB

Peak SAR (extrapolated) = 3.20 W/kg

**SAR(1 g) = 2.24 mW/g; SAR(10 g) = 1.47 mW/g**

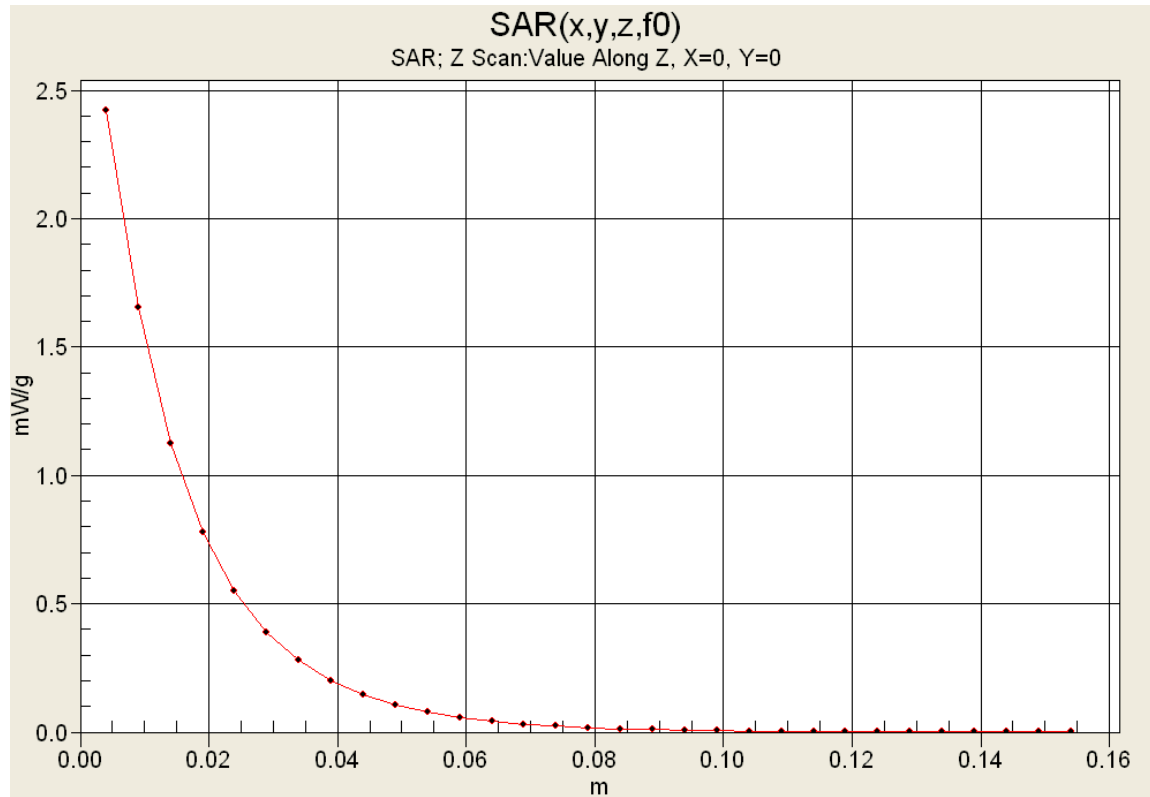
Maximum value of SAR (measured) = 2.41 mW/g



|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 151 of 208                                                                       |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

## Z-Axis Scan



|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 152 of 208                                                                       |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

## APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS

|                         |                                                                   |                                                                                                                      |                     |            |                   |                                                                                       |
|-------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|---------------------|------------|-------------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | <b>HARRIS Corporation</b>                                         | <b>FCC ID:</b>                                                                                                       | <b>OWDTR-0073-E</b> | <b>IC:</b> | <b>3636B-0073</b> |  |
| <b>DUT Type:</b>        | <b>Portable 700/800-Band PTT Radio Transceiver with Bluetooth</b> | <b>DUT Name:</b>                                                                                                     | <b>XG-25P 7/800</b> |            |                   |                                                                                       |
| 2012 Celltech Labs Inc. |                                                                   | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |                     |            |                   | Page 153 of 208                                                                       |

|                                                                                                                          |                                                       |                                                           |                                                           |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

### 835 MHz Body

\*\*\*\*\*

Celltech Labs  
Test Result for UIM Dielectric Parameter  
04/Sep/2012  
Frequency (GHz)  
FCC\_eB FCC Limits for Body Epsilon  
FCC\_sB FCC Limits for Body Sigma  
Test\_e Epsilon of UIM  
Test\_s Sigma of UIM

\*\*\*\*\*

| Freq   | FCC_eB | FCC_sB | Test_e | Test_s |
|--------|--------|--------|--------|--------|
| 0.7350 | 55.59  | 0.96   | 56.14  | 0.86   |
| 0.7450 | 55.55  | 0.96   | 56.01  | 0.88   |
| 0.7550 | 55.51  | 0.96   | 55.85  | 0.89   |
| 0.7650 | 55.47  | 0.96   | 55.68  | 0.91   |
| 0.7750 | 55.43  | 0.97   | 55.79  | 0.91   |
| 0.7850 | 55.39  | 0.97   | 55.70  | 0.92   |
| 0.7950 | 55.36  | 0.97   | 55.49  | 0.92   |
| 0.8050 | 55.32  | 0.97   | 55.31  | 0.93   |
| 0.8150 | 55.28  | 0.97   | 55.39  | 0.94   |
| 0.8250 | 55.24  | 0.97   | 55.42  | 0.96   |
| 0.8350 | 55.20  | 0.97   | 55.21  | 0.96   |
| 0.8450 | 55.17  | 0.98   | 54.87  | 0.96   |
| 0.8550 | 55.14  | 0.99   | 54.95  | 0.98   |
| 0.8650 | 55.11  | 1.01   | 54.78  | 1.00   |
| 0.8750 | 55.08  | 1.02   | 54.83  | 1.01   |
| 0.8850 | 55.05  | 1.03   | 54.81  | 1.02   |
| 0.8950 | 55.02  | 1.04   | 54.71  | 1.03   |
| 0.9050 | 55.00  | 1.05   | 54.39  | 1.05   |
| 0.9150 | 55.00  | 1.06   | 54.37  | 1.04   |
| 0.9250 | 54.98  | 1.06   | 54.40  | 1.06   |
| 0.9350 | 54.96  | 1.07   | 54.43  | 1.07   |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 154 of 208                                                                       |

|                                                                                                                          |                                                       |                                                           |                                                           |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

### 835 MHz Body

\*\*\*\*\*

Celltech Labs  
Test Result for UIM Dielectric Parameter  
05&06/Sep/2012  
Frequency (GHz)  
FCC\_eB FCC Limits for Body Epsilon  
FCC\_sB FCC Limits for Body Sigma  
Test\_e Epsilon of UIM  
Test\_s Sigma of UIM

\*\*\*\*\*

| Freq   | FCC_eB | FCC_sB | Test_e | Test_s |
|--------|--------|--------|--------|--------|
| 0.7350 | 55.59  | 0.96   | 56.14  | 0.87   |
| 0.7450 | 55.55  | 0.96   | 56.05  | 0.89   |
| 0.7550 | 55.51  | 0.96   | 55.66  | 0.89   |
| 0.7650 | 55.47  | 0.96   | 55.91  | 0.91   |
| 0.7750 | 55.43  | 0.97   | 55.72  | 0.91   |
| 0.7850 | 55.39  | 0.97   | 55.62  | 0.93   |
| 0.7950 | 55.36  | 0.97   | 55.59  | 0.95   |
| 0.8050 | 55.32  | 0.97   | 55.11  | 0.95   |
| 0.8150 | 55.28  | 0.97   | 55.37  | 0.96   |
| 0.8250 | 55.24  | 0.97   | 55.37  | 0.96   |
| 0.8350 | 55.20  | 0.97   | 55.30  | 0.98   |
| 0.8450 | 55.17  | 0.98   | 55.18  | 0.98   |
| 0.8550 | 55.14  | 0.99   | 55.02  | 1.00   |
| 0.8650 | 55.11  | 1.01   | 55.08  | 1.00   |
| 0.8750 | 55.08  | 1.02   | 54.60  | 1.01   |
| 0.8850 | 55.05  | 1.03   | 54.70  | 1.02   |
| 0.8950 | 55.02  | 1.04   | 54.76  | 1.05   |
| 0.9050 | 55.00  | 1.05   | 54.66  | 1.05   |
| 0.9150 | 55.00  | 1.06   | 54.55  | 1.06   |
| 0.9250 | 54.98  | 1.06   | 54.45  | 1.07   |
| 0.9350 | 54.96  | 1.07   | 54.11  | 1.08   |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 155 of 208                                                                       |

|                                                                                                                          |                                                       |                                                           |                                                           |                                                                                                                        |
|--------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
| <br>Testing and Engineering Services Lab | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                                                          | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

### 835 MHz Body

\*\*\*\*\*

Celltech Labs  
Test Result for UIM Dielectric Parameter  
07/Sep/2012  
Frequency (GHz)  
FCC\_eB FCC Limits for Body Epsilon  
FCC\_sB FCC Limits for Body Sigma  
Test\_e Epsilon of UIM  
Test\_s Sigma of UIM

\*\*\*\*\*

| Freq   | FCC_eB | FCC_sB | Test_e | Test_s |
|--------|--------|--------|--------|--------|
| 0.7350 | 55.59  | 0.96   | 54.88  | 0.85   |
| 0.7450 | 55.55  | 0.96   | 55.28  | 0.88   |
| 0.7550 | 55.51  | 0.96   | 55.00  | 0.88   |
| 0.7650 | 55.47  | 0.96   | 54.83  | 0.89   |
| 0.7750 | 55.43  | 0.97   | 54.87  | 0.90   |
| 0.7850 | 55.39  | 0.97   | 54.95  | 0.91   |
| 0.7950 | 55.36  | 0.97   | 54.80  | 0.93   |
| 0.8050 | 55.32  | 0.97   | 54.37  | 0.94   |
| 0.8150 | 55.28  | 0.97   | 54.66  | 0.95   |
| 0.8250 | 55.24  | 0.97   | 54.37  | 0.95   |
| 0.8350 | 55.20  | 0.97   | 54.24  | 0.96   |
| 0.8450 | 55.17  | 0.98   | 54.23  | 0.98   |
| 0.8550 | 55.14  | 0.99   | 53.82  | 0.98   |
| 0.8650 | 55.11  | 1.01   | 53.93  | 0.99   |
| 0.8750 | 55.08  | 1.02   | 53.63  | 1.00   |
| 0.8850 | 55.05  | 1.03   | 53.66  | 1.03   |
| 0.8950 | 55.02  | 1.04   | 53.69  | 1.03   |
| 0.9050 | 55.00  | 1.05   | 53.31  | 1.03   |
| 0.9150 | 55.00  | 1.06   | 53.66  | 1.05   |
| 0.9250 | 54.98  | 1.06   | 53.30  | 1.06   |
| 0.9350 | 54.96  | 1.07   | 53.25  | 1.06   |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 156 of 208                                                                       |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                    |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) |  |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                    |

Test Lab Certificate No. 2470.01

### 835 MHz Head

\*\*\*\*\*

Celltech Labs

Test Result for UIM Dielectric Parameter

07/Sep/2012

Frequency (GHz)

FCC\_eHFCC OET 65 Supplement C (June 2001) Limits for Head Epsilon

FCC\_sHFCC OET 65 Supplement C (June 2001) Limits for Head Sigma

Test\_e Epsilon of UIM

Test\_s Sigma of UIM

\*\*\*\*\*

| Freq   | FCC_eHF | FCC_sH | Test_e | Test_s |
|--------|---------|--------|--------|--------|
| 0.7350 | 42.02   | 0.89   | 42.95  | 0.78   |
| 0.7450 | 41.97   | 0.89   | 43.20  | 0.80   |
| 0.7550 | 41.92   | 0.89   | 43.18  | 0.81   |
| 0.7650 | 41.86   | 0.89   | 42.59  | 0.82   |
| 0.7750 | 41.81   | 0.90   | 42.79  | 0.84   |
| 0.7850 | 41.76   | 0.90   | 42.58  | 0.85   |
| 0.7950 | 41.71   | 0.90   | 42.52  | 0.85   |
| 0.8050 | 41.66   | 0.90   | 42.49  | 0.87   |
| 0.8150 | 41.60   | 0.90   | 42.57  | 0.88   |
| 0.8250 | 41.55   | 0.90   | 42.24  | 0.88   |
| 0.8350 | 41.50   | 0.90   | 42.07  | 0.88   |
| 0.8450 | 41.50   | 0.91   | 41.87  | 0.91   |
| 0.8550 | 41.50   | 0.92   | 41.74  | 0.92   |
| 0.8650 | 41.50   | 0.93   | 41.39  | 0.92   |
| 0.8750 | 41.50   | 0.94   | 41.06  | 0.93   |
| 0.8850 | 41.50   | 0.95   | 41.44  | 0.94   |
| 0.8950 | 41.50   | 0.96   | 41.13  | 0.95   |
| 0.9050 | 41.50   | 0.97   | 41.08  | 0.95   |
| 0.9150 | 41.50   | 0.98   | 40.97  | 0.98   |
| 0.9250 | 41.48   | 0.98   | 40.76  | 0.97   |
| 0.9350 | 41.46   | 0.99   | 40.96  | 0.98   |

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 157 of 208                                                                       |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

## APPENDIX E - DIPOLE CALIBRATION

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 204 of 208                                                                       |



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 108**

The Swiss Accreditation Service is one of the signatories to the EA  
 Multilateral Agreement for the recognition of calibration certificates

Client **Celltech**

Certificate No: **D835V2-4d075\_Apr12**

## CALIBRATION CERTIFICATE

Object **D835V2 - SN: 4d075**

Calibration procedure(s) **QA CAL-05.v8**  
**Calibration procedure for dipole validation kits above 700 MHz**

Calibration date: **April 20, 2012**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature ( $22 \pm 3$ )°C and humidity < 70%.

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards           | ID #               | Cal Date (Certificate No.)     | Scheduled Calibration |
|-----------------------------|--------------------|--------------------------------|-----------------------|
| Power meter EPM-442A        | GB37480704         | 05-Oct-11 (No. 217-01451)      | Oct-12                |
| Power sensor HP 8481A       | US37292783         | 05-Oct-11 (No. 217-01451)      | Oct-12                |
| Reference 20 dB Attenuator  | SN: 5058 (20k)     | 27-Mar-12 (No. 217-01530)      | Apr-13                |
| Type-N mismatch combination | SN: 5047.2 / 06327 | 27-Mar-12 (No. 217-01533)      | Apr-13                |
| Reference Probe ES3DV3      | SN: 3205           | 30-Dec-11 (No. ES3-3205_Dec11) | Dec-12                |
| DAE4                        | SN: 601            | 04-Jul-11 (No. DAE4-601_Jul11) | Jul-12                |

| Secondary Standards       | ID #             | Check Date (in house)             | Scheduled Check        |
|---------------------------|------------------|-----------------------------------|------------------------|
| Power sensor HP 8481A     | MY41092317       | 18-Oct-02 (in house check Oct-11) | In house check: Oct-13 |
| RF generator R&S SMT-06   | 100005           | 04-Aug-99 (in house check Oct-11) | In house check: Oct-13 |
| Network Analyzer HP 8753E | US37390585 S4206 | 18-Oct-01 (in house check Oct-11) | In house check: Oct-12 |

|                |                |                       |           |
|----------------|----------------|-----------------------|-----------|
|                | Name           | Function              | Signature |
| Calibrated by: | Israe El-Naouq | Laboratory Technician |           |
| Approved by:   | Katja Pokovic  | Technical Manager     |           |

Issued: April 20, 2012

This calibration certificate shall not be reproduced except in full without written approval of the laboratory.



Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

**Glossary:**

|       |                                 |
|-------|---------------------------------|
| TSL   | tissue simulating liquid        |
| ConvF | sensitivity in TSL / NORM x,y,z |
| N/A   | not applicable or not measured  |

**Calibration is Performed According to the Following Standards:**

- a) IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- b) IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005
- c) Federal Communications Commission Office of Engineering & Technology (FCC OET), "Evaluating Compliance with FCC Guidelines for Human Exposure to Radiofrequency Electromagnetic Fields; Additional Information for Evaluating Compliance of Mobile and Portable Devices with FCC Limits for Human Exposure to Radiofrequency Emissions", Supplement C (Edition 01-01) to Bulletin 65

**Additional Documentation:**

- d) DASY4/5 System Handbook

**Methods Applied and Interpretation of Parameters:**

- *Measurement Conditions:* Further details are available from the Validation Report at the end of the certificate. All figures stated in the certificate are valid at the frequency indicated.
- *Antenna Parameters with TSL:* The dipole is mounted with the spacer to position its feed point exactly below the center marking of the flat phantom section, with the arms oriented parallel to the body axis.
- *Feed Point Impedance and Return Loss:* These parameters are measured with the dipole positioned under the liquid filled phantom. The impedance stated is transformed from the measurement at the SMA connector to the feed point. The Return Loss ensures low reflected power. No uncertainty required.
- *Electrical Delay:* One-way delay between the SMA connector and the antenna feed point. No uncertainty required.
- *SAR measured:* SAR measured at the stated antenna input power.
- *SAR normalized:* SAR as measured, normalized to an input power of 1 W at the antenna connector.
- *SAR for nominal TSL parameters:* The measured TSL parameters are used to calculate the nominal SAR result.

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor  $k=2$ , which for a normal distribution corresponds to a coverage probability of approximately 95%.

## Measurement Conditions

DASY system configuration, as far as not given on page 1.

|                                     |                        |             |
|-------------------------------------|------------------------|-------------|
| <b>DASY Version</b>                 | DASY5                  | V52.8.1     |
| <b>Extrapolation</b>                | Advanced Extrapolation |             |
| <b>Phantom</b>                      | Modular Flat Phantom   |             |
| <b>Distance Dipole Center - TSL</b> | 15 mm                  | with Spacer |
| <b>Zoom Scan Resolution</b>         | dx, dy, dz = 5 mm      |             |
| <b>Frequency</b>                    | 835 MHz $\pm$ 1 MHz    |             |

## Head TSL parameters

The following parameters and calculations were applied.

|                                                | Temperature         | Permittivity   | Conductivity         |
|------------------------------------------------|---------------------|----------------|----------------------|
| <b>Nominal Head TSL parameters</b>             | 22.0 °C             | 41.5           | 0.90 mho/m           |
| <b>Measured Head TSL parameters</b>            | (22.0 $\pm$ 0.2) °C | 41.1 $\pm$ 6 % | 0.90 mho/m $\pm$ 6 % |
| <b>Head TSL temperature change during test</b> | < 0.5 °C            | ----           | ----                 |

## SAR result with Head TSL

|                                                             |                    |                                                  |
|-------------------------------------------------------------|--------------------|--------------------------------------------------|
| <b>SAR averaged over 1 cm<sup>3</sup> (1 g) of Head TSL</b> | Condition          |                                                  |
| SAR measured                                                | 250 mW input power | 2.36 mW / g                                      |
| SAR for nominal Head TSL parameters                         | normalized to 1W   | <b>9.42 mW / g <math>\pm</math> 17.0 % (k=2)</b> |

|                                                               |                    |                                                  |
|---------------------------------------------------------------|--------------------|--------------------------------------------------|
| <b>SAR averaged over 10 cm<sup>3</sup> (10 g) of Head TSL</b> | condition          |                                                  |
| SAR measured                                                  | 250 mW input power | 1.55 mW / g                                      |
| SAR for nominal Head TSL parameters                           | normalized to 1W   | <b>6.19 mW / g <math>\pm</math> 16.5 % (k=2)</b> |

## Body TSL parameters

The following parameters and calculations were applied.

|                                                | Temperature         | Permittivity   | Conductivity         |
|------------------------------------------------|---------------------|----------------|----------------------|
| <b>Nominal Body TSL parameters</b>             | 22.0 °C             | 55.2           | 0.97 mho/m           |
| <b>Measured Body TSL parameters</b>            | (22.0 $\pm$ 0.2) °C | 54.5 $\pm$ 6 % | 1.01 mho/m $\pm$ 6 % |
| <b>Body TSL temperature change during test</b> | < 0.5 °C            | ----           | ----                 |

## SAR result with Body TSL

|                                                             |                    |                                                  |
|-------------------------------------------------------------|--------------------|--------------------------------------------------|
| <b>SAR averaged over 1 cm<sup>3</sup> (1 g) of Body TSL</b> | Condition          |                                                  |
| SAR measured                                                | 250 mW input power | 2.47 mW / g                                      |
| SAR for nominal Body TSL parameters                         | normalized to 1W   | <b>9.56 mW / g <math>\pm</math> 17.0 % (k=2)</b> |

|                                                               |                    |                                                  |
|---------------------------------------------------------------|--------------------|--------------------------------------------------|
| <b>SAR averaged over 10 cm<sup>3</sup> (10 g) of Body TSL</b> | condition          |                                                  |
| SAR measured                                                  | 250 mW input power | 1.62 mW / g                                      |
| SAR for nominal Body TSL parameters                           | normalized to 1W   | <b>6.31 mW / g <math>\pm</math> 16.5 % (k=2)</b> |

## Appendix

### Antenna Parameters with Head TSL

|                                      |                                |
|--------------------------------------|--------------------------------|
| Impedance, transformed to feed point | 51.4 $\Omega$ - 4.6 j $\Omega$ |
| Return Loss                          | - 26.5 dB                      |

### Antenna Parameters with Body TSL

|                                      |                                |
|--------------------------------------|--------------------------------|
| Impedance, transformed to feed point | 46.8 $\Omega$ - 6.2 j $\Omega$ |
| Return Loss                          | - 22.8 dB                      |

### General Antenna Parameters and Design

|                                  |          |
|----------------------------------|----------|
| Electrical Delay (one direction) | 1.395 ns |
|----------------------------------|----------|

After long term use with 100W radiated power, only a slight warming of the dipole near the feedpoint can be measured.

The dipole is made of standard semirigid coaxial cable. The center conductor of the feeding line is directly connected to the second arm of the dipole. The antenna is therefore short-circuited for DC-signals. On some of the dipoles, small end caps are added to the dipole arms in order to improve matching when loaded according to the position as explained in the "Measurement Conditions" paragraph. The SAR data are not affected by this change. The overall dipole length is still according to the Standard.

No excessive force must be applied to the dipole arms, because they might bend or the soldered connections near the feedpoint may be damaged.

### Additional EUT Data

|                 |                   |
|-----------------|-------------------|
| Manufactured by | SPEAG             |
| Manufactured on | November 09, 2007 |

## DASY5 Validation Report for Head TSL

Date: 20.04.2012

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d075**

Communication System: CW; Frequency: 835 MHz

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.9 \text{ mho/m}$ ;  $\epsilon_r = 41.1$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.07, 6.07, 6.07); Calibrated: 30.12.2011;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.07.2011
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

### **Dipole Calibration for Head Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:**

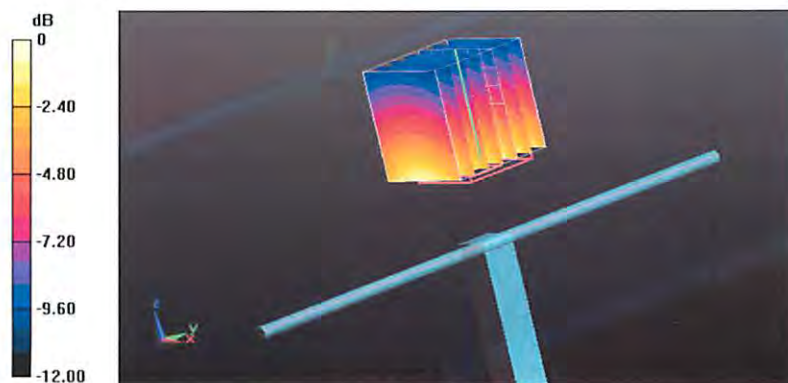
Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 56.890 V/m; Power Drift = 0.03 dB

Peak SAR (extrapolated) = 3.477 mW/g

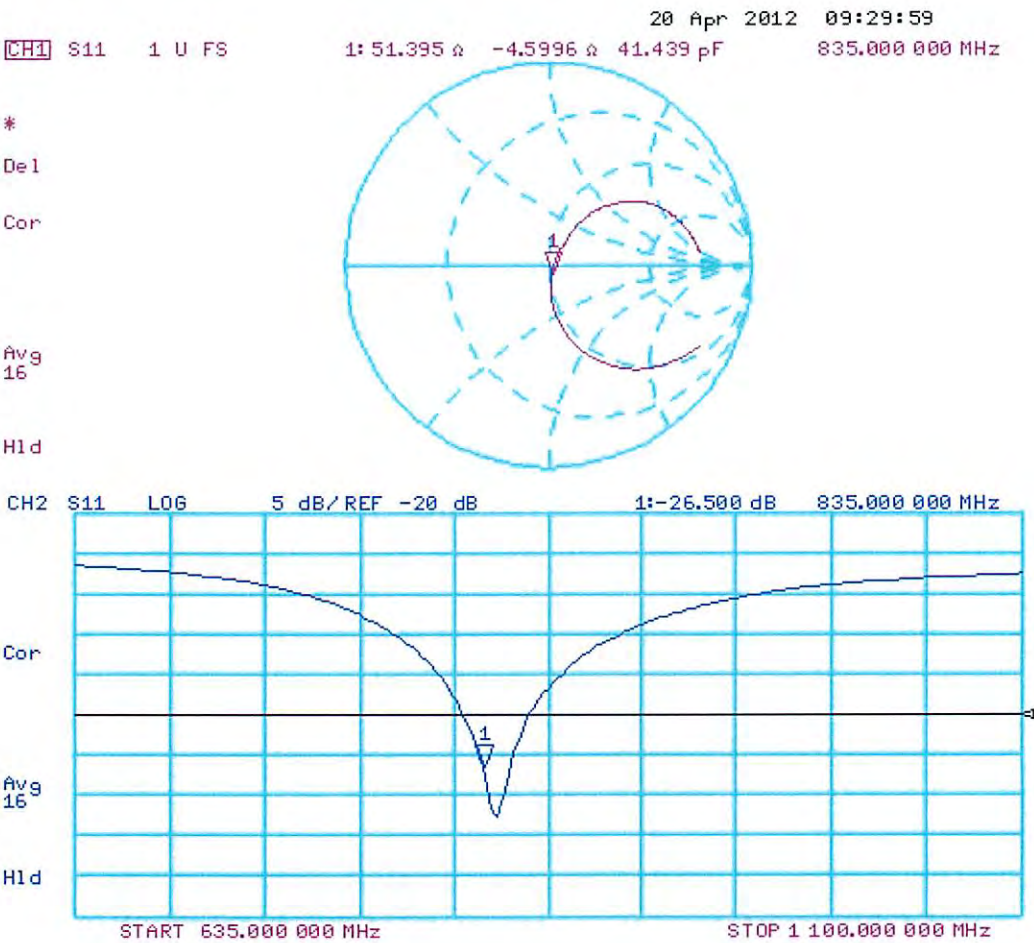
**SAR(1 g) = 2.36 mW/g; SAR(10 g) = 1.55 mW/g**

Maximum value of SAR (measured) = 2.74 mW/g



0 dB = 2.74 mW/g = 8.76 dB mW/g

Impedance Measurement Plot for Head TSL



## DASY5 Validation Report for Body TSL

Date: 19.04.2012

Test Laboratory: SPEAG, Zurich, Switzerland

**DUT: Dipole 835 MHz; Type: D835V2; Serial: D835V2 - SN: 4d075**

Communication System: CW; Frequency: 835 MHz

Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 1.01 \text{ mho/m}$ ;  $\epsilon_r = 54.5$ ;  $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Measurement Standard: DASY5 (IEEE/IEC/ANSI C63.19-2007)

DASY52 Configuration:

- Probe: ES3DV3 - SN3205; ConvF(6.02, 6.02, 6.02); Calibrated: 30.12.2011;
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn601; Calibrated: 04.07.2011
- Phantom: Flat Phantom 4.9L; Type: QD000P49AA; Serial: 1001
- DASY52 52.8.1(838); SEMCAD X 14.6.5(6469)

### **Dipole Calibration for Body Tissue/Pin=250 mW, d=15mm/Zoom Scan (7x7x7)/Cube 0:**

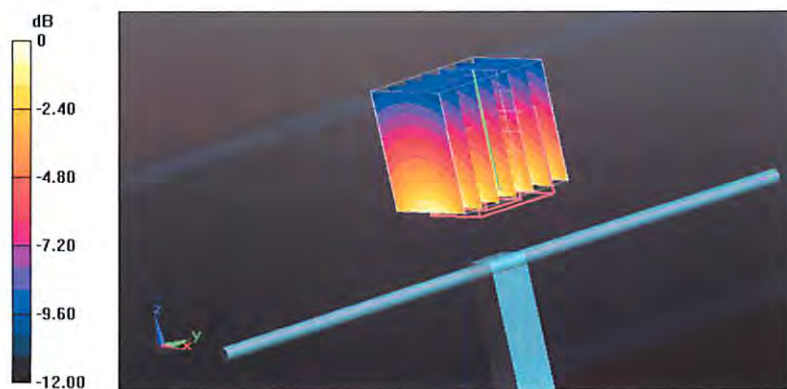
Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 55.283 V/m; Power Drift = 0.00 dB

Peak SAR (extrapolated) = 3.580 mW/g

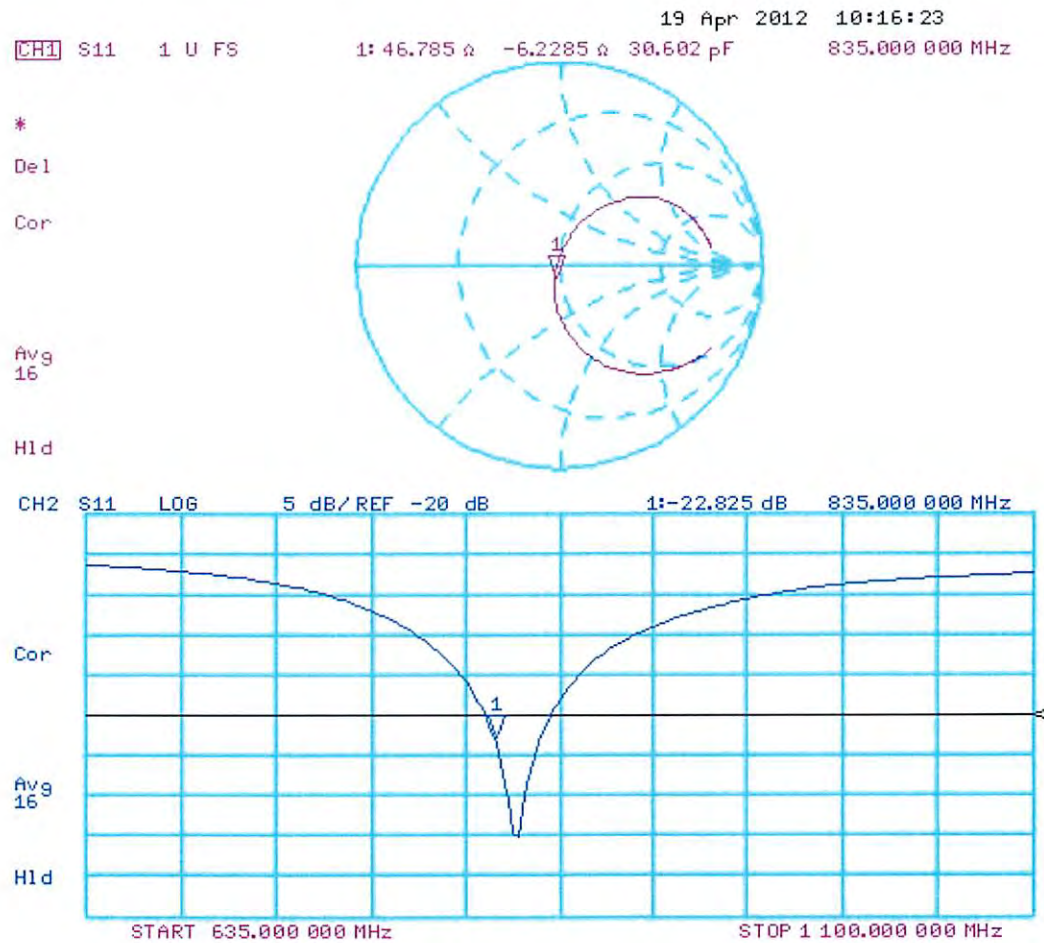
**SAR(1 g) = 2.47 mW/g; SAR(10 g) = 1.62 mW/g**

Maximum value of SAR (measured) = 2.87 mW/g



0 dB = 2.87 mW/g = 9.16 dB mW/g

## Impedance Measurement Plot for Body TSL



|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

## APPENDIX F - PROBE CALIBRATION

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 205 of 208                                                                       |



Accredited by the Swiss Accreditation Service (SAS)

Accreditation No.: **SCS 108**

The Swiss Accreditation Service is one of the signatories to the EA  
 Multilateral Agreement for the recognition of calibration certificates

Client **Celltech**

Certificate No: **ET3-1590\_Apr12**

## CALIBRATION CERTIFICATE

Object **ET3DV6 - SN:1590**

Calibration procedure(s) **QA CAL-01.v8, QA CAL-12.v7, QA CAL-23.v4, QA CAL-25.v4**  
**Calibration procedure for dosimetric E-field probes**

Calibration date: **April 24, 2012**

This calibration certificate documents the traceability to national standards, which realize the physical units of measurements (SI).  
 The measurements and the uncertainties with confidence probability are given on the following pages and are part of the certificate.

All calibrations have been conducted in the closed laboratory facility: environment temperature  $(22 \pm 3)^{\circ}\text{C}$  and humidity  $< 70\%$ .

Calibration Equipment used (M&TE critical for calibration)

| Primary Standards          | ID              | Cal Date (Certificate No.)        | Scheduled Calibration  |
|----------------------------|-----------------|-----------------------------------|------------------------|
| Power meter E4419B         | GB41293874      | 29-Mar-12 (No. 217-01508)         | Apr-13                 |
| Power sensor E4412A        | MY41498087      | 29-Mar-12 (No. 217-01508)         | Apr-13                 |
| Reference 3 dB Attenuator  | SN: S5054 (3c)  | 27-Mar-12 (No. 217-01531)         | Apr-13                 |
| Reference 20 dB Attenuator | SN: S5086 (20b) | 27-Mar-12 (No. 217-01529)         | Apr-13                 |
| Reference 30 dB Attenuator | SN: S5129 (30b) | 27-Mar-12 (No. 217-01532)         | Apr-13                 |
| Reference Probe ES3DV2     | SN: 3013        | 29-Dec-11 (No. ES3-3013_Dec11)    | Dec-12                 |
| DAE4                       | SN: 660         | 10-Jan-12 (No. DAE4-660_Jan12)    | Jan-13                 |
|                            |                 |                                   |                        |
| Secondary Standards        | ID              | Check Date (in house)             | Scheduled Check        |
| RF generator HP 8648C      | US3642U01700    | 4-Aug-99 (in house check Apr-11)  | In house check: Apr-13 |
| Network Analyzer HP 8753E  | US37390585      | 18-Oct-01 (in house check Oct-11) | In house check: Oct-12 |

|                                                                                                                 | Name           | Function              | Signature |
|-----------------------------------------------------------------------------------------------------------------|----------------|-----------------------|-----------|
| Calibrated by:                                                                                                  | Jeton Kastrati | Laboratory Technician |           |
| Approved by:                                                                                                    | Katja Pokovic  | Technical Manager     |           |
|                                                                                                                 |                |                       |           |
| Issued: April 26, 2012                                                                                          |                |                       |           |
| This calibration certificate shall not be reproduced except in full without written approval of the laboratory. |                |                       |           |



Accredited by the Swiss Accreditation Service (SAS)  
The Swiss Accreditation Service is one of the signatories to the EA  
Multilateral Agreement for the recognition of calibration certificates

Accreditation No.: **SCS 108**

## Glossary:

|                          |                                                                                                                                                         |
|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| TSL                      | tissue simulating liquid                                                                                                                                |
| NORM <sub>x,y,z</sub>    | sensitivity in free space                                                                                                                               |
| ConvF                    | sensitivity in TSL / NORM <sub>x,y,z</sub>                                                                                                              |
| DCP                      | diode compression point                                                                                                                                 |
| CF                       | crest factor (1/duty_cycle) of the RF signal                                                                                                            |
| A, B, C                  | modulation dependent linearization parameters                                                                                                           |
| Polarization $\varphi$   | $\varphi$ rotation around probe axis                                                                                                                    |
| Polarization $\vartheta$ | $\vartheta$ rotation around an axis that is in the plane normal to probe axis (at measurement center),<br>i.e., $\vartheta = 0$ is normal to probe axis |

## Calibration is Performed According to the Following Standards:

- IEEE Std 1528-2003, "IEEE Recommended Practice for Determining the Peak Spatial-Averaged Specific Absorption Rate (SAR) in the Human Head from Wireless Communications Devices: Measurement Techniques", December 2003
- IEC 62209-1, "Procedure to measure the Specific Absorption Rate (SAR) for hand-held devices used in close proximity to the ear (frequency range of 300 MHz to 3 GHz)", February 2005

## Methods Applied and Interpretation of Parameters:

- NORM<sub>x,y,z</sub>**: Assessed for E-field polarization  $\vartheta = 0$  ( $f \leq 900$  MHz in TEM-cell;  $f > 1800$  MHz: R22 waveguide). NORM<sub>x,y,z</sub> are only intermediate values, i.e., the uncertainties of NORM<sub>x,y,z</sub> does not affect the  $E^2$ -field uncertainty inside TSL (see below ConvF).
- NORM(f)<sub>x,y,z</sub>** = NORM<sub>x,y,z</sub> \* frequency\_response (see Frequency Response Chart). This linearization is implemented in DASY4 software versions later than 4.2. The uncertainty of the frequency response is included in the stated uncertainty of ConvF.
- DCP<sub>x,y,z</sub>**: DCP are numerical linearization parameters assessed based on the data of power sweep with CW signal (no uncertainty required). DCP does not depend on frequency nor media.
- PAR**: PAR is the Peak to Average Ratio that is not calibrated but determined based on the signal characteristics
- A<sub>x,y,z</sub>; B<sub>x,y,z</sub>; C<sub>x,y,z</sub>; VR<sub>x,y,z</sub>**: A, B, C are numerical linearization parameters assessed based on the data of power sweep for specific modulation signal. The parameters do not depend on frequency nor media. VR is the maximum calibration range expressed in RMS voltage across the diode.
- ConvF and Boundary Effect Parameters**: Assessed in flat phantom using E-field (or Temperature Transfer Standard for  $f \leq 800$  MHz) and inside waveguide using analytical field distributions based on power measurements for  $f > 800$  MHz. The same setups are used for assessment of the parameters applied for boundary compensation (alpha, depth) of which typical uncertainty values are given. These parameters are used in DASY4 software to improve probe accuracy close to the boundary. The sensitivity in TSL corresponds to NORM<sub>x,y,z</sub> \* ConvF whereby the uncertainty corresponds to that given for ConvF. A frequency dependent ConvF is used in DASY version 4.4 and higher which allows extending the validity from  $\pm 50$  MHz to  $\pm 100$  MHz.
- Spherical isotropy (3D deviation from isotropy)**: in a field of low gradients realized using a flat phantom exposed by a patch antenna.
- Sensor Offset**: The sensor offset corresponds to the offset of virtual measurement center from the probe tip (on probe axis). No tolerance required.

# Probe ET3DV6

## SN:1590

Manufactured: March 19, 2001  
Calibrated: April 24, 2012

**Calibrated for DASY/EASY Systems**  
(Note: non-compatible with DASY2 system!)

## DASY/EASY - Parameters of Probe: ET3DV6 - SN:1590

### Basic Calibration Parameters

|                                                           | Sensor X | Sensor Y | Sensor Z | Unc (k=2) |
|-----------------------------------------------------------|----------|----------|----------|-----------|
| Norm ( $\mu\text{V}/(\text{V}/\text{m})^2$ ) <sup>A</sup> | 1.79     | 1.92     | 1.60     | ± 10.1 %  |
| DCP (mV) <sup>B</sup>                                     | 94.8     | 98.4     | 88.8     |           |

### Modulation Calibration Parameters

| UID | Communication System Name | PAR  |   | A<br>dB | B<br>dB | C<br>dB | VR<br>mV | Unc <sup>E</sup><br>(k=2) |
|-----|---------------------------|------|---|---------|---------|---------|----------|---------------------------|
| 0   | CW                        | 0.00 | X | 0.00    | 0.00    | 1.00    | 143.4    | ±4.6 %                    |
|     |                           |      | Y | 0.00    | 0.00    | 1.00    | 150.1    |                           |
|     |                           |      | Z | 0.00    | 0.00    | 1.00    | 179.4    |                           |

The reported uncertainty of measurement is stated as the standard uncertainty of measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability of approximately 95%.

<sup>A</sup> The uncertainties of NormX,Y,Z do not affect the E<sup>2</sup>-field uncertainty inside TSL (see Pages 5 and 6).

<sup>B</sup> Numerical linearization parameter: uncertainty not required.

<sup>E</sup> Uncertainty is determined using the max. deviation from linear response applying rectangular distribution and is expressed for the square of the field value.

## DASY/EASY - Parameters of Probe: ET3DV6 - SN:1590

### Calibration Parameter Determined in Head Tissue Simulating Media

| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha | Depth (mm) | Unct. (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|-------|------------|-------------|
| 450                  | 43.5                               | 0.87                            | 7.54    | 7.54    | 7.54    | 0.20  | 2.16       | ± 13.4 %    |
| 750                  | 41.9                               | 0.89                            | 7.11    | 7.11    | 7.11    | 0.29  | 3.00       | ± 12.0 %    |
| 835                  | 41.5                               | 0.90                            | 6.77    | 6.77    | 6.77    | 0.27  | 3.00       | ± 12.0 %    |
| 900                  | 41.5                               | 0.97                            | 6.67    | 6.67    | 6.67    | 0.29  | 3.00       | ± 12.0 %    |

<sup>C</sup> Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

## DASY/EASY - Parameters of Probe: ET3DV6 - SN:1590

### Calibration Parameter Determined in Body Tissue Simulating Media

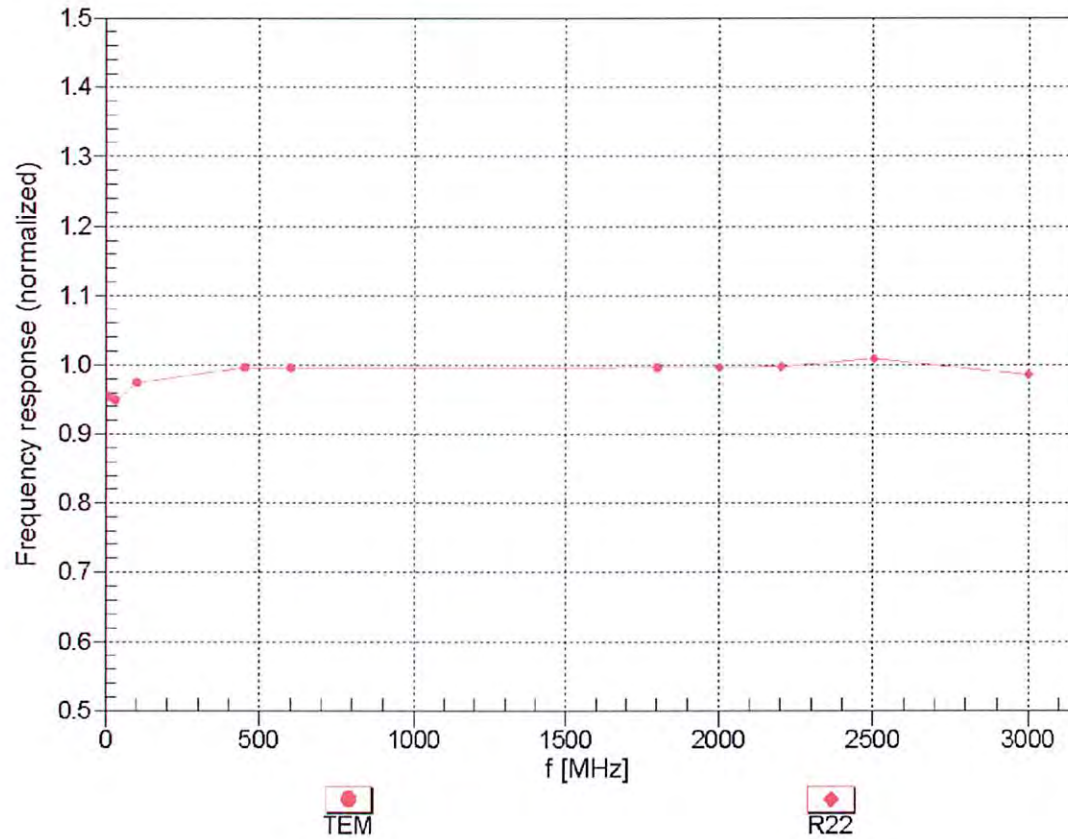
| f (MHz) <sup>C</sup> | Relative Permittivity <sup>F</sup> | Conductivity (S/m) <sup>F</sup> | ConvF X | ConvF Y | ConvF Z | Alpha | Depth (mm) | Unct. (k=2) |
|----------------------|------------------------------------|---------------------------------|---------|---------|---------|-------|------------|-------------|
| 450                  | 56.7                               | 0.94                            | 7.93    | 7.93    | 7.93    | 0.12  | 2.07       | ± 13.4 %    |
| 750                  | 55.5                               | 0.96                            | 6.71    | 6.71    | 6.71    | 0.22  | 3.00       | ± 12.0 %    |
| 835                  | 55.2                               | 0.97                            | 6.54    | 6.54    | 6.54    | 0.27  | 3.00       | ± 12.0 %    |
| 900                  | 55.0                               | 1.05                            | 6.51    | 6.51    | 6.51    | 0.29  | 2.92       | ± 12.0 %    |

<sup>C</sup> Frequency validity of ± 100 MHz only applies for DASY v4.4 and higher (see Page 2), else it is restricted to ± 50 MHz. The uncertainty is the RSS of the ConvF uncertainty at calibration frequency and the uncertainty for the indicated frequency band.

<sup>F</sup> At frequencies below 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) can be relaxed to ± 10% if liquid compensation formula is applied to measured SAR values. At frequencies above 3 GHz, the validity of tissue parameters ( $\epsilon$  and  $\sigma$ ) is restricted to ± 5%. The uncertainty is the RSS of the ConvF uncertainty for indicated target tissue parameters.

## Frequency Response of E-Field

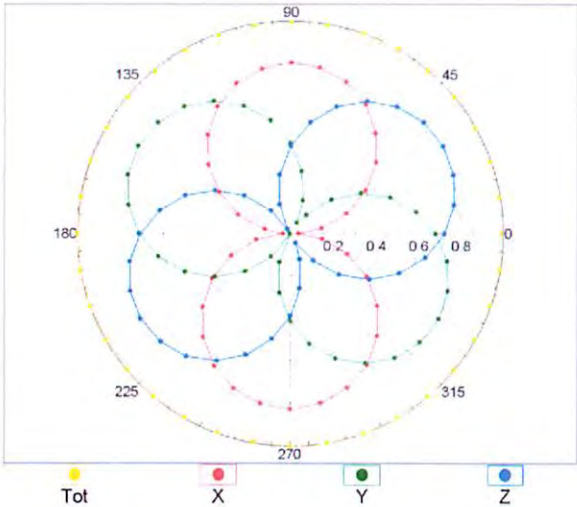
(TEM-Cell: ifi110 EXX, Waveguide: R22)



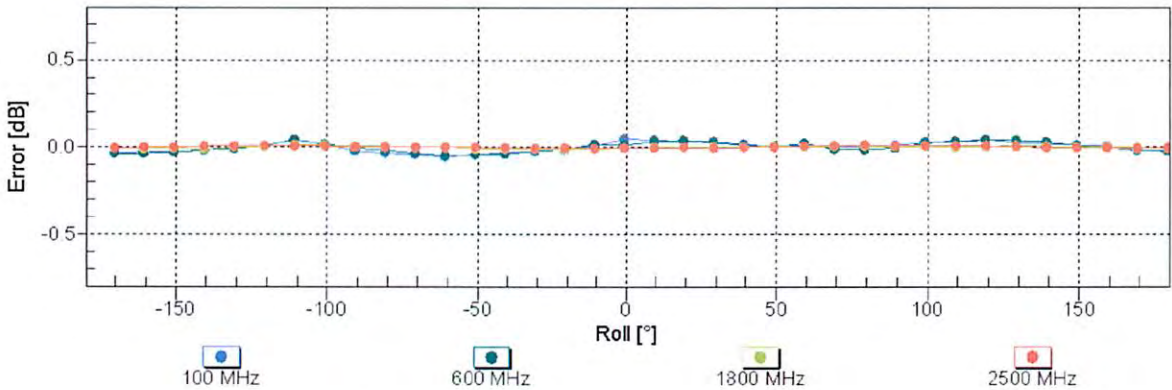
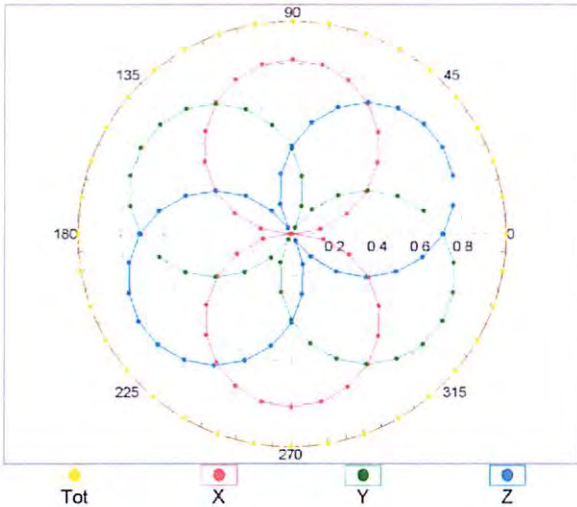
Uncertainty of Frequency Response of E-field:  $\pm 6.3\%$  ( $k=2$ )

Receiving Pattern ( $\phi$ ),  $\theta = 0^\circ$

f=600 MHz,TEM

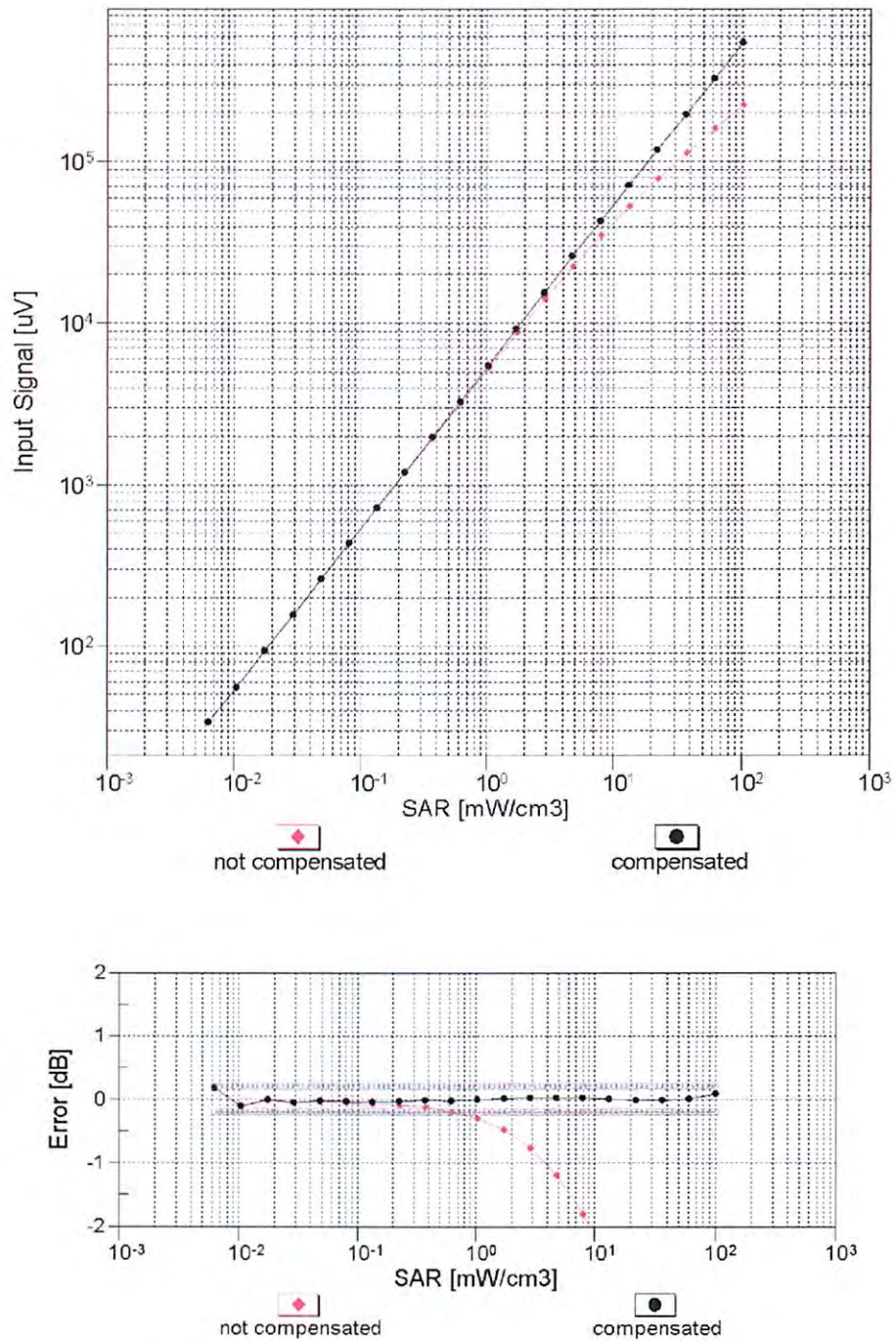


f=1800 MHz,R22



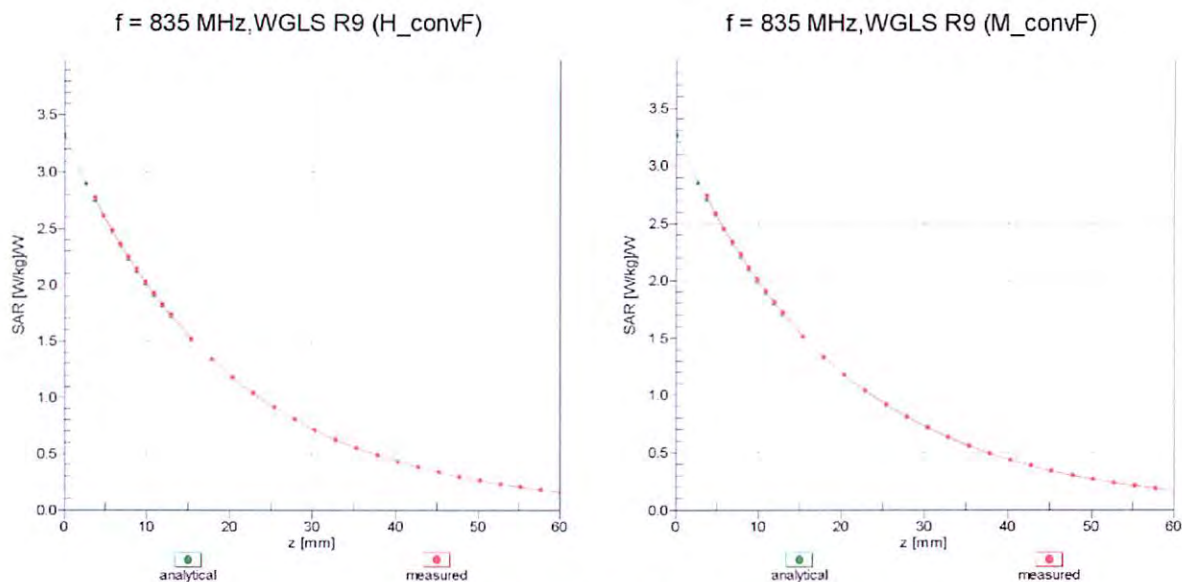
Uncertainty of Axial Isotropy Assessment:  $\pm 0.5\%$  ( $k=2$ )

## Dynamic Range $f(\text{SAR}_{\text{head}})$ (TEM cell , $f = 900 \text{ MHz}$ )



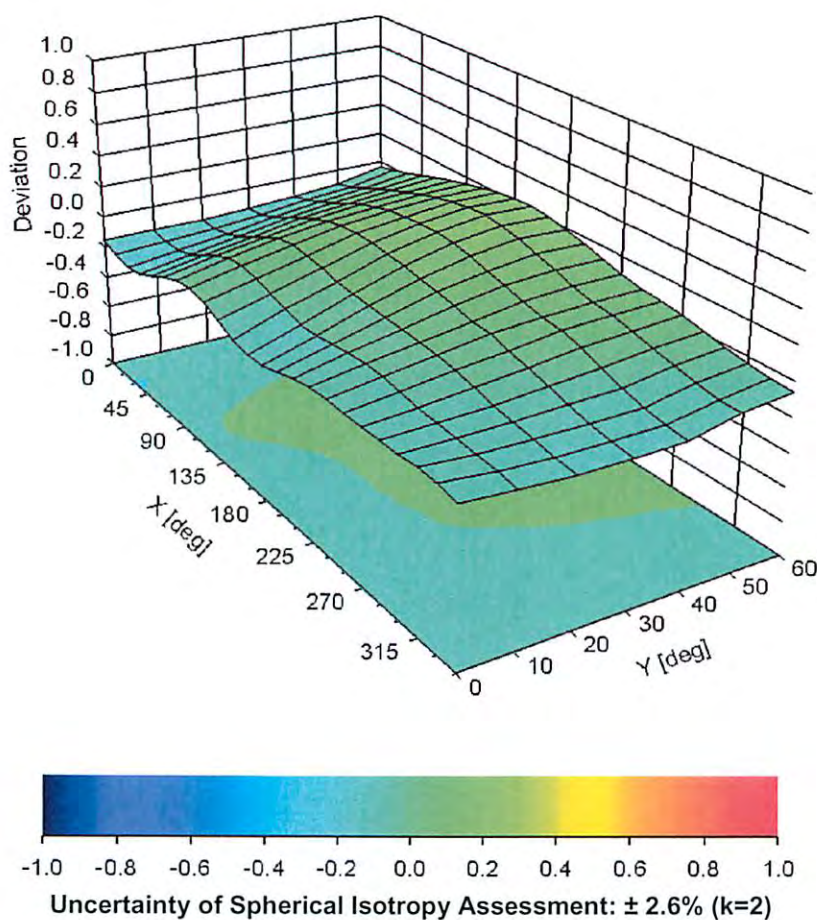
Uncertainty of Linearity Assessment:  $\pm 0.6\%$  ( $k=2$ )

## Conversion Factor Assessment



## Deviation from Isotropy in Liquid

Error ( $\phi, \vartheta$ ),  $f = 900 \text{ MHz}$



## DASY/EASY - Parameters of Probe: ET3DV6 - SN:1590

### Other Probe Parameters

|                                               |            |
|-----------------------------------------------|------------|
| Sensor Arrangement                            | Triangular |
| Connector Angle (°)                           | -170.8     |
| Mechanical Surface Detection Mode             | enabled    |
| Optical Surface Detection Mode                | enabled    |
| Probe Overall Length                          | 337 mm     |
| Probe Body Diameter                           | 10 mm      |
| Tip Length                                    | 10 mm      |
| Tip Diameter                                  | 6.8 mm     |
| Probe Tip to Sensor X Calibration Point       | 2.7 mm     |
| Probe Tip to Sensor Y Calibration Point       | 2.7 mm     |
| Probe Tip to Sensor Z Calibration Point       | 2.7 mm     |
| Recommended Measurement Distance from Surface | 4 mm       |

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

## APPENDIX G - BARSKI PLANAR PHANTOM CERTIFICATE OF CONFORMITY

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 206 of 208                                                                       |

2378 Westlake Road  
Kelowna, B.C. Canada  
V1Z-2V2



Ph. # 250-769-6848  
Fax # 250-769-6334  
E-mail: [barskiind@shaw.ca](mailto:barskiind@shaw.ca)  
Web: [www.bcfiberglass.com](http://www.bcfiberglass.com)

## FIBERGLASS FABRICATORS

### Certificate of Conformity

Item : Flat Planar Phantom Unit # 03-01  
Date: June 16, 2003  
Manufacturer: Barski Industries (1985 Ltd)

| Test                | Requirement                                                                            | Details                                                       |
|---------------------|----------------------------------------------------------------------------------------|---------------------------------------------------------------|
| Shape               | Compliance to geometry according to drawing                                            | Supplied CAD drawing                                          |
| Material Thickness  | Compliant with the requirements                                                        | 2mm +/- 0.2mm in measurement area                             |
| Material Parameters | Dielectric parameters for required frequencies<br>Based on Dow Chemical technical data | 100 MHz-5 GHz<br>Relative permittivity<5<br>Loss Tangent<0.05 |

#### Conformity

Based on the above information, we certify this product to be compliant to the requirements specified.

Signature: \_\_\_\_\_

A handwritten signature in black ink, appearing to read 'Daniel Chailler', is written over a horizontal line.

Daniel Chailler



**Fiberglass Planar Phantom - Top View**



**Fiberglass Planar Phantom - Front View**



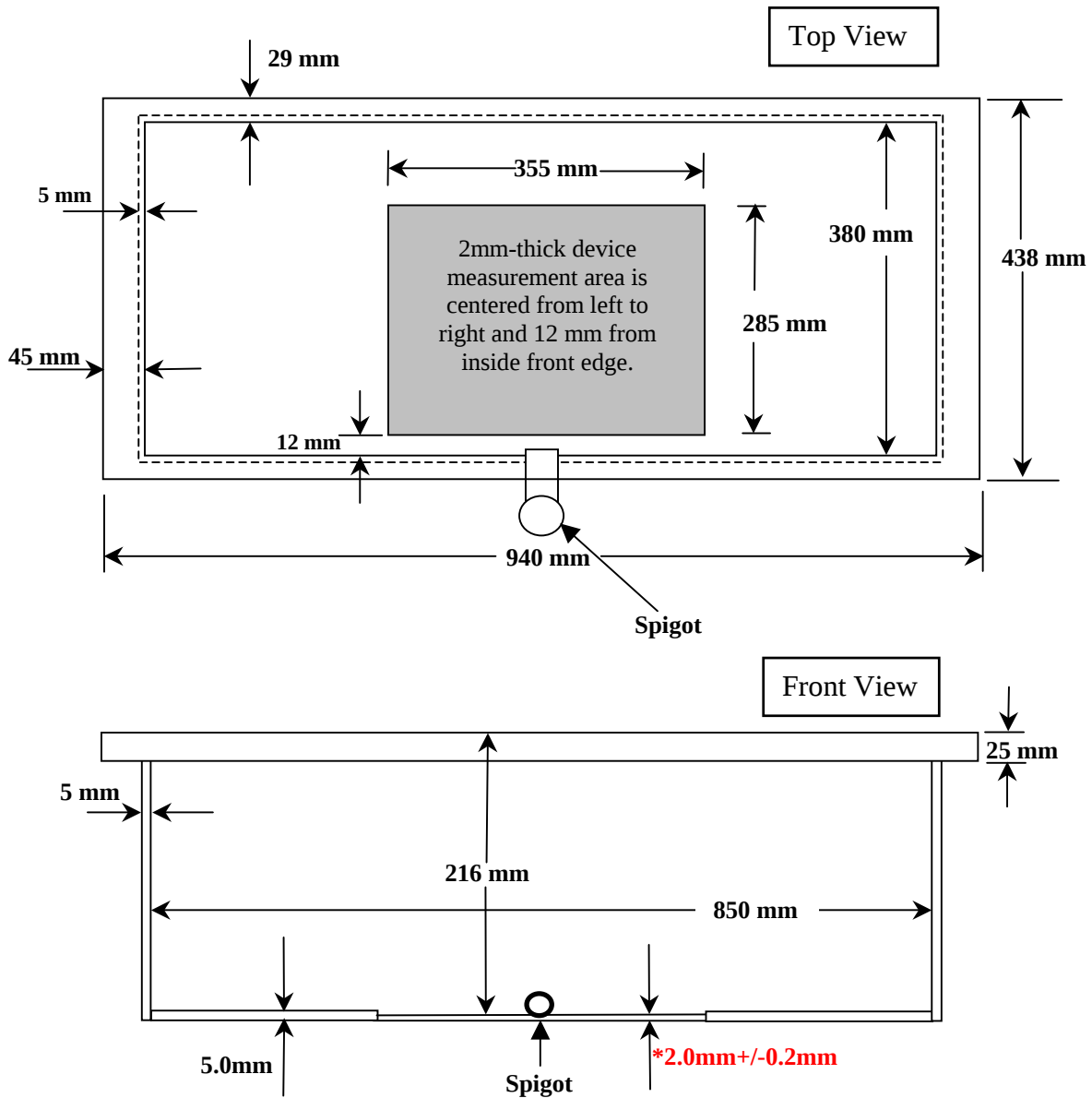
**Fiberglass Planar Phantom - Back View**



**Fiberglass Planar Phantom - Bottom View**

## Dimensions of Fiberglass Planar Phantom

(Manufactured by Barski Industries Ltd. - Unit# 03-01)



**Note:** Measurements that aren't repeated for the opposite sides are the same as the side measured.  
This drawing is not to scale.

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

## APPENDIX H - SAM TWIN PHANTOM CERTIFICATE OF CONFORMITY

|                         |                                                            |                                                                                                                      |              |           |              |                                                                                       |
|-------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|--------------|-----------|--------------|---------------------------------------------------------------------------------------|
| Applicant:              | HARRIS Corporation                                         | FCC ID:                                                                                                              | OWDTR-0073-E | IC:       | 3636B-0073   |  |
| DUT Type:               | Portable 700/800-Band PTT Radio Transceiver with Bluetooth |                                                                                                                      |              | DUT Name: | XG-25P 7/800 |                                                                                       |
| 2012 Celltech Labs Inc. |                                                            | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |              |           |              | Page 207 of 208                                                                       |

# Schmid & Partner Engineering AG

Zeughausstrasse 43, 8004 Zurich, Switzerland, Phone +41 1 245 97 00, Fax +41 1 245 97 79

## Certificate of conformity / First Article Inspection

|                       |                                                                          |
|-----------------------|--------------------------------------------------------------------------|
| Item                  | SAM Twin Phantom V4.0                                                    |
| Type No               | QD 000 P40 BA                                                            |
| Series No             | TP-1002 and higher                                                       |
| Manufacturer / Origin | Untersee Composites<br>Hauptstr. 69<br>CH-8559 Fruthwilen<br>Switzerland |

### Tests

The series production process used allows the limitation to test of first articles.  
Complete tests were made on the pre-series Type No. QD 000 P40 AA, Serial No. TP-1001 and on the series first article Type No. QD 000 P40 BA, Serial No. TP-1006. Certain parameters have been retested using further series units (called samples).

| Test                 | Requirement                                                                             | Details                                                              | Units tested                 |
|----------------------|-----------------------------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------|
| Shape                | Compliance with the geometry according to the CAD model.                                | IT'IS CAD File (*)                                                   | First article,<br>Samples    |
| Material thickness   | Compliant with the requirements according to the standards                              | 2mm +/- 0.2mm in specific areas                                      | First article,<br>Samples    |
| Material parameters  | Dielectric parameters for required frequencies                                          | 200 MHz – 3 GHz<br>Relative permittivity < 5<br>Loss tangent < 0.05. | Material sample<br>TP 104-5  |
| Material resistivity | The material has been tested to be compatible with the liquids defined in the standards | Liquid type HSL 1800 and others according to the standard.           | Pre-series,<br>First article |

### Standards

- [1] CENELEC EN 50361
- [2] IEEE P1528-200x draft 6.5
- [3] IEC PT 62209 draft 0.9

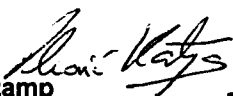
(\*) The IT'IS CAD file is derived from [2] and is also within the tolerance requirements of the shapes of [1] and [3].

### Conformity

Based on the sample tests above, we certify that this item is in compliance with the uncertainty requirements of SAR measurements specified in standard [1] and draft standards [2] and [3].

Date 18.11.2001

Signature / Stamp



**Schmid & Partner  
Engineering AG**



Zeughausstrasse 43, CH-8004 Zurich  
Tel. +41 1 245 97 00, Fax +41 1 245 97 79

|                                                                                  |                                                       |                                                           |                                                           |                                                                                                                        |
|----------------------------------------------------------------------------------|-------------------------------------------------------|-----------------------------------------------------------|-----------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|
|  | <u>Date(s) of Evaluation</u><br>September 04-07, 2012 | <u>Test Report Serial No.</u><br>082712OWD-T1184-S90M     | <u>Test Report Revision No.</u><br>Rev. 1.0 (1st Release) | <br>Test Lab Certificate No. 2470.01 |
|                                                                                  | <u>Test Report Issue Date</u><br>September 20, 2012   | <u>Description of Test(s)</u><br>Specific Absorption Rate | <u>RF Exposure Category</u><br>Occupational (Controlled)  |                                                                                                                        |

## APPENDIX I - AUDIO ACCESSORY COMBINATIONS (FCC KDB 643646 D01v01r01)

|                         |                                                                                                                      |                  |                     |            |                   |                                                                                       |
|-------------------------|----------------------------------------------------------------------------------------------------------------------|------------------|---------------------|------------|-------------------|---------------------------------------------------------------------------------------|
| <b>Applicant:</b>       | <b>HARRIS Corporation</b>                                                                                            | <b>FCC ID:</b>   | <b>OWDTR-0073-E</b> | <b>IC:</b> | <b>3636B-0073</b> |  |
| <b>DUT Type:</b>        | <b>Portable 700/800-Band PTT Radio Transceiver with Bluetooth</b>                                                    | <b>DUT Name:</b> | <b>XG-25P 7/800</b> |            |                   |                                                                                       |
| 2012 Celltech Labs Inc. | This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc. |                  |                     |            |                   | Page 208 of 208                                                                       |



**HARRIS CORPORATION FCC ID: OWDTR-0073-E  
XG-25P 700/800 PTT Radio Transceiver (SYSTEM)**

| Body SAR Test Considerations for Audio Accessories without Built-in Antenna - Audio Accessory Combinations (FCC KDB 643646 D01v01r01 Page 9) |                        |   |      |   |      |   |      |   |      |   |                        |   |      |   |      |   |      |   |      |   |                        |   |      |   |      |   |      |   |      |   |                     |   |      |   |      |   |      |   |      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---|------|---|------|---|------|---|------|---|------------------------|---|------|---|------|---|------|---|------|---|------------------------|---|------|---|------|---|------|---|------|---|---------------------|---|------|---|------|---|------|---|------|--|
| Audio Accessory ID #                                                                                                                         | Battery a (Additional) |   |      |   |      |   |      |   |      |   | Battery b (Additional) |   |      |   |      |   |      |   |      |   | Battery c (Additional) |   |      |   |      |   |      |   |      |   | Battery d (Default) |   |      |   |      |   |      |   |      |  |
|                                                                                                                                              | Antenna 1, 2           |   |      |   |      |   |      |   |      |   | Antenna 1, 2           |   |      |   |      |   |      |   |      |   | Antenna 1, 2           |   |      |   |      |   |      |   |      |   | Antenna 1, 2        |   |      |   |      |   |      |   |      |  |
|                                                                                                                                              | Bw#5                   |   | Bw#1 |   | Bw#3 |   | Bw#4 |   | Bw#6 |   | Bw#5                   |   | Bw#1 |   | Bw#3 |   | Bw#4 |   | Bw#6 |   | Bw#5                   |   | Bw#1 |   | Bw#3 |   | Bw#4 |   | Bw#6 |   | Bw#5                |   | Bw#1 |   | Bw#3 |   | Bw#4 |   | Bw#6 |  |
| G1a                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G1b                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G2                                                                                                                                           | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G3a                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G3b                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G4                                                                                                                                           | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G5                                                                                                                                           | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G6a                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G6b                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G7a                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G7b                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G7c                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G7d                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G8a                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G8b                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G9a                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G9b                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G10                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G11a                                                                                                                                         | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G11b                                                                                                                                         | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G12a                                                                                                                                         | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G12b                                                                                                                                         | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |

Notes:

1. All audio accessory options can be utilized with any antenna, battery and body-worn combination.
2. The accessory combinations evaluated for SAR are highlighted in yellow.
3. Please refer to Section 5.0 of the SAR report for description of accessory ID #.
4. Bw = Body-worn



**HARRIS CORPORATION FCC ID: OWDTR-0073-E  
XG-25P 700/800 PTT Radio Transceiver (Scan)**

| Body SAR Test Considerations for Audio Accessories without Built-in Antenna - Audio Accessory Combinations (FCC KDB 643646 D01v01r01 Page 9) |                        |   |      |   |      |   |      |   |      |   |                        |   |      |   |      |   |      |   |      |   |                        |   |      |   |      |   |      |   |      |   |                     |   |      |   |      |   |      |   |      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|---|------|---|------|---|------|---|------|---|------------------------|---|------|---|------|---|------|---|------|---|------------------------|---|------|---|------|---|------|---|------|---|---------------------|---|------|---|------|---|------|---|------|--|
| Audio Accessory ID #                                                                                                                         | Battery a (Additional) |   |      |   |      |   |      |   |      |   | Battery b (Additional) |   |      |   |      |   |      |   |      |   | Battery c (Additional) |   |      |   |      |   |      |   |      |   | Battery d (Default) |   |      |   |      |   |      |   |      |  |
|                                                                                                                                              | Antenna 1, 2           |   |      |   |      |   |      |   |      |   | Antenna 1, 2           |   |      |   |      |   |      |   |      |   | Antenna 1, 2           |   |      |   |      |   |      |   |      |   | Antenna 1, 2        |   |      |   |      |   |      |   |      |  |
|                                                                                                                                              | Bw#5                   |   | Bw#1 |   | Bw#3 |   | Bw#4 |   | Bw#6 |   | Bw#5                   |   | Bw#1 |   | Bw#3 |   | Bw#4 |   | Bw#6 |   | Bw#5                   |   | Bw#1 |   | Bw#3 |   | Bw#4 |   | Bw#6 |   | Bw#5                |   | Bw#1 |   | Bw#3 |   | Bw#4 |   | Bw#6 |  |
| G1a                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G1b                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G2                                                                                                                                           | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G3a                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G3b                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G4                                                                                                                                           | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G5                                                                                                                                           | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G6a                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G6b                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G7a                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G7b                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G7c                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G7d                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G8a                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G8b                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G9a                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G9b                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G10                                                                                                                                          | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G11a                                                                                                                                         | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G11b                                                                                                                                         | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G12a                                                                                                                                         | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |
| G12b                                                                                                                                         | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                      | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1    | 2 | 1                   | 2 | 1    | 2 | 1    | 2 | 1    | 2 |      |  |

Notes:

1. All audio accessory options can be utilized with any antenna, battery and body-worn combination.
2. The accessory combinations evaluated for SAR are highlighted in yellow.
3. Please refer to Section 5.0 of the SAR report for description of accessory ID #.
4. Bw = Body-worn