


	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

## SAR TEST REPORT (FCC/IC)

RF EXPOSURE EVALUATION		SPECIFIC ABSORPTION RATE			
APPLICANT / MANUFACTURER	LXE INC.				
DEVICE UNDER TEST (DUT)	RUGGED HAND-HELD PC				
DEVICE MODEL(S)	MX9, FC300				
DEVICE IDENTIFIER(S)	FCC ID:	KDZLXEMX9GSM2G	IC:	1995B-MX9GSM2G	
INTERNAL TRANSMITTER(S)	DUAL-BAND CELLULAR/PCS GPRS/EDGE			BLUETOOTH	
APPLICATION TYPE	Class II Permissive Change:		Add Body-worn Holster accessories		
			Add Co-Transmitter (LXE 802.11b/g) FCC ID: KDZLXE4830P (Modular) IC: 1995B-4830M (Modular)		
STANDARD(S) APPLIED	FCC 47 CFR §2.1093		Health Canada Safety Code 6		
	FCC KDB 447498 D01v04		FCC KDB 178919 D01v04r04		
PROCEDURE(S) APPLIED	FCC KDB 648474 D01v01r05		FCC OET 65, Supp. C (01-01)		
	IC RSS-102 Issue 4	IEEE 1528-2003		IEC 62209-2 (Draft)	
FCC DEVICE CLASSIFICATION(S)	PCS Licensed Transmitter (PCB)			47 CFR §24 Subpart E	
	Part 15 Spread Spectrum Transmitter (DSS)			47CFR §15 Subpart C	
	Digital Transmission System (DTS)			47CFR §15 Subpart C	
IC DEVICE CLASSIFICATION(S)	2 GHz Personal Communication Services			RSS-133 Issue 5	
	800 MHz Cell. Tel. Employing New Technol.			RSS-132 Issue 2	
	Low-Power Licence-Exempt Radio Device			RSS-210 Issue 7	
RF EXPOSURE CATEGORY	General Population / Uncontrolled				
RF EXPOSURE EVALUATION(S)	Body-worn				
DATE OF SAMPLE RECEIPT	April 13, 2010				
DATE(S) OF EVALUATION(S)	May 07, 10, 12, 2010				
TEST REPORT SERIAL NO.	041310KDZ-T1014-S24G				
TEST REPORT REVISION NO.	Revision 1.1	See Page 4		June 08, 2010	
	Revision 1.0	Initial Release		May 26, 2010	
TEST REPORT SIGNATORIES	Testing Performed By		Test Report Prepared By		
	Sean Johnston - Celltech Labs		Jon Hughes - Celltech Labs		
TEST LAB AND LOCATION	Celltech Compliance Testing and Engineering Laboratory				
	21-364 Lougheed Road, Kelowna, B.C. V1X 7R8 Canada				
TEST LAB CONTACT INFO.	Tel.: 250-765-7650		Fax: 250-765-7645		
	info@celltechlabs.com		www.celltechlabs.com		
TEST LAB ACCREDITATION(S)	ISO/IEC 17025:2005 (A2LA Test Lab Certificate No. 2470.01)				

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)		IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth			Add 802.11bg WLAN Co-Tx	
2010 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 64









 Testing and Engineering Services Ltd	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	




TABLE OF CONTENTS	
1.0 INTRODUCTION	5
2.0 SAR MEASUREMENT SYSTEM	5
3.0 OUTPUT POWER MEASUREMENTS	5
4.0 MEASURED FLUID DIELECTRIC PARAMETERS	6
5.0 SAR PROBE CALIBRATION & MEASUREMENT FREQUENCIES	6
6.0 SAR MEASUREMENT SUMMARY	7
7.0 SIMULTANEOUS TRANSMISSION ASSESSMENT	8
8.0 DETAILS OF SAR EVALUATION	9
9.0 EVALUATION PROCEDURES	9
10.0 SYSTEM PERFORMANCE CHECK	10
11.0 SIMULATED EQUIVALENT TISSUES	11
12.0 SAR LIMITS	11
13.0 ROBOT SYSTEM SPECIFICATIONS	12
14.0 PROBE SPECIFICATIONS	13
15.0 SAM TWIN PHANTOM V4.0C	13
16.0 DEVICE HOLDER	13
17.0 TEST EQUIPMENT LIST	14
18.0 MEASUREMENT UNCERTAINTIES	15
19.0 REFERENCES	16
APPENDIX A - SAR MEASUREMENT DATA	17
APPENDIX B - SYSTEM PERFORMANCE CHECK DATA	37
APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS	44
APPENDIX D - SAR TEST SETUP & DUT PHOTOGRAPHS	48
APPENDIX E - DIPOLE CALIBRATION	62
APPENDIX F - PROBE CALIBRATION	63
APPENDIX G - SAM PHANTOM CERTIFICATE OF CONFORMITY	64

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

REVISION HISTORY		
REVISION NO.	DESCRIPTION	RELEASE DATE
1.0	Initial Release	May 26, 2010
1.1	Add Hand-held PC Model No. FC300	June 08, 2010
	Add WLAN Module IC Certification No.	

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	  Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 1.0 INTRODUCTION


This measurement report demonstrates that the LXE Inc. Models: MX9, FC300 Rugged Hand-held PC with internal Dual-Band GPRS/EDGE and Bluetooth, under the Class II Permissive Change of adding simultaneous transmission with LXE Model: 4830 802.11b/g WLAN Module (FCC ID: KDZLXE4830P and IC: 1995B-4830M), 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 General Population / Uncontrolled Exposure environment. The test procedures described in FCC OET Bulletin 65, Supplement C, Edition 01-01 (see reference [3]), Industry Canada RSS-102 Issue 4 (see reference [4]), IEEE 1528-2003 (see reference [5]) and IEC 62209-2 (Draft - see reference [6]) were employed. A description of the product and operating configuration, detailed summary of the test results, methodology and procedures used in the evaluation, equipment used, and the various provisions of the appropriate standards and procedures 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 brain 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 utilizes a controller with built in VME-bus computer.



## 3.0 OUTPUT POWER MEASUREMENTS

MEASURED RF CONDUCTED OUTPUT POWER LEVELS					
Frequency	Channel	Mode	Conducted Power Level		
MHz			dBm	Watts	Method
824.2	128	Cellular GPRS - 4 Uplink / 1 Downlink	32.1	1.62	Burst Average
836.6	190	Cellular GPRS - 4 Uplink / 1 Downlink	32.1	1.62	Burst Average
848.8	251	Cellular GPRS - 4 Uplink / 1 Downlink	32.3	1.70	Burst Average
1850.2	512	PCS GPRS - 4 Uplink / 1 Downlink	29.3	0.851	Burst Average
2437	6	WLAN 802.11b - 1 Mbps - MAIN Antenna	14.9	0.031	Average
2437	6	WLAN 802.11b - 1 Mbps - AUX Antenna	15.0	0.032	Average
<b>Notes</b>					
1. The RF conducted output power levels of the WWAN and WLAN transmitters were measured at the appropriate antenna connector internal to the DUT prior to the SAR evaluation using a Gigatronics 8652A Universal Power Meter.					

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>	<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 5 of 64





	Dates of Evaluation May 07, 10, 12, 2010	Test Report Serial No. 041310KDZ-T1014-S24G	Test Report Revision No. Rev. 1.1 (2nd Release)	
	Test Report Issue Date June 08, 2010	Description of Test(s) Specific Absorption Rate	RF Exposure Category Gen. Pop. / Uncontrolled	

Test Lab Certificate No. 2470.01

## 6.0 SAR MEASUREMENT SUMMARY

### BODY SAR MEASUREMENT SUMMARY (1g) - LXE MX9 HAND-HELD PC (850/1900/2450 Bands)

Test Date	Internal Tx'mtter	Freq. Band	Test Freq.	Chan.	Test Mode	Antenna	Body-worn Accessory	DUT Position to Planar Phantom	Conducted Power Before Test	SAR Drift During Test	Measured SAR Levels
			MHz						dBm	dB	W/kg (1g)
May 12	WWAN	850	824.2	128	GPRS 4 Slots	WWAN	FC3422HOLSTER	Keypad Side	32.1	0.175	0.027
							MX9420HOLSTER	Keypad Side	32.1	0.206	0.045
			836.6	190			None (2.0 cm air-gap spacing)	Left Side	32.1	-0.118	0.859
									32.1	0.027	0.957
									32.3	-0.130	0.803
			848.8	251			None (Touch position)	Right Side	32.1	0.235	0.450
824.2	128										
May 10		1900	1850.2	512	GPRS 4 Slots	WWAN	FC3422HOLSTER	Keypad Side	29.3	0.160	0.045
							MX9420HOLSTER	Keypad Side	29.3	-0.018	0.034
							None (2.0 cm air-gap spacing)	Left Side	29.3	-0.196	0.591
							None (Touch position)	Right Side	29.3	-0.014	0.108
May 07	WLAN	2450	2437.0	6	802.11b 1 Mbps	AUX	FC3422HOLSTER	Keypad Side	15.0	-0.050	0.024
							MX9420HOLSTER	Keypad Side	15.0	0.171	0.050
							None (2.0 cm air-gap spacing)	Left Side	15.0	-0.075	0.031
						MAIN	FC3422HOLSTER	Keypad Side	14.9	0.171	0.023
							MX9420HOLSTER	Keypad Side	14.9	0.147	0.040
							None (Touch position)	Right Side	14.9	0.159	0.283

#### SAR LIMIT(S)

#### BODY

#### SPATIAL PEAK

#### RF EXPOSURE CATEGORY

FCC 47 CFR 2.1093

Health Canada Safety Code 6


1.6 W/kg



averaged over 1 gram

General Population / Uncontrolled

#### Notes

1. Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in Appendix A.
2. The test frequencies selected are based on the provisions set forth in FCC KDB 447498 D01v04 Section 1) e) i).
3. The WWAN SAR evaluations were performed with an established air-link between the DUT & Agilent 8960 E5515C Wireless Communications Test Set.
4. The WLAN SAR evaluations were performed utilizing the WLAN module manufacturer's proprietary test mode software program installed in the DUT and controlled via the keypad.
5. The reported power drift of the DUT was measured by the DASY4 system.
6. The DUT battery was fully charged prior to the SAR evaluations.

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 7.0 SIMULTANEOUS TRANSMISSION ASSESSMENT


Assessment of the DUT for simultaneous transmission was based on applying the provision of FCC KDB 447498 D01v04 Section 4)d) (see reference [7]) whereby the applicable criteria of FCC KDB 648474 D01v04 (see reference [8]) was further implemented as described below. The antenna distances were provided by LXE.

Co-located Transmitters: WWAN can transmit simultaneously with WLAN  
WWAN can transmit simultaneously with Bluetooth  
WLAN can transmit simultaneously with Bluetooth  
WWAN, WLAN and Bluetooth can all transmit simultaneously



Antenna-to-Antenna Spacing: WWAN to WLAN AUX = 2.6 cm  
WWAN to WLAN MAIN = 7.5 cm  
WWAN to Bluetooth = 8.6 cm  
WLAN AUX to Bluetooth = 10.2 cm  
WLAN MAIN to Bluetooth = 11.5 cm

Antenna-to-User Distances: WWAN with FC3422HOLSTER accessory = 5.0 cm  
WWAN with MX9420HOLSTER accessory = 4.2 cm  
WWAN - Left Side of DUT - 2 cm air-gap = 3.2 cm  
WWAN - Right Side of DUT - 0 cm air-gap = 8.3 cm  
WLAN with FC3422HOLSTER accessory = 2.4 cm  
WLAN with MX9420HOLSTER accessory = 1.6 cm  
WLAN AUX - Left Side of DUT - 2 cm air-gap = 2.7 cm  
WLAN MAIN - Right Side of DUT - 0 cm air-gap = 0.7 cm

SUM OF MAXIMUM 1g SAR LEVELS MEASURED							
Test Position	Simultaneous Transmission	Band	Frequency	Channel	Mode	1g SAR Level	SAR Summation
						W/kg	W/kg
Left Side 2.0 cm Air-Gap	WWAN (Cell)	850	836.6	190	GPRS	0.957	0.988
	WLAN (AUX)	2450	2437.0	6	802.11b	0.031	
Right Side Touch	WWAN (Cell)	850	824.2	128	GPRS	0.450	0.733
	WLAN (MAIN)	2450	2437.0	6	802.11b	0.283	
Left Side 2.0 cm Air-Gap	WWAN (PCS)	1900	1850.2	512	GPRS	0.591	0.622
	WLAN (AUX)	2450	2437.0	6	802.11b	0.031	
Right Side Touch	WWAN (PCS)	1900	1850.2	512	GPRS	0.108	0.391
	WLAN (AUX)	2450	2437.0	6	802.11b	0.283	
Notes							
1. Per FCC TCB Workshop Presentation Material (7-9 October 2008) - Review of Selected Concepts from RF Exposure Basic KDB Publications - KDB 648474 cellphone criteria - Page 14 (Oct08 Harrington rev3): a: sim-Tx, sum-SAR<1.6W/kg, no sim-Tx SAR b: sim-Tx, sum-SAR≥1.6W/kg, SPLSRxy<0.3, no sim-Tx SAR c: sim-Tx, sum-SAR≥1.6W/kg, SPLSRxy≥0.3, DO sim-Tx SAR							
2. The maximum conducted output power of the Bluetooth (1 mW) is below 12 mW (P <sub>Ref</sub> ) and therefore stand-alone SAR evaluation was not required (per FCC KDB 648474 Table 1). The SAR level of the Bluetooth is considered as 0.							

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				



	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 8.0 DETAILS OF SAR EVALUATION


The LXE Inc. Models: MX9, FC300 Rugged Hand-held PC with internal Dual-Band GPRS/EDGE and Bluetooth, under the Class II Permissive Change of adding simultaneous transmission with the LXE Model: 4830 802.11b/g WLAN Module (FCC ID: KDZLXE4830P and IC: 1995B-4830M) was compliant for localized Specific Absorption Rate (Uncontrolled Exposure) based on the test provisions and conditions described below. The detailed test setup photographs are shown in Appendix D.



### Test Configuration(s)

- The DUT was evaluated for body SAR with the Hand-held PC placed inside the FC3422HOLSTER accessory with the keypad side facing the back side of the holster and the top end of the DUT facing the top end of the holster. The back side of the holster accessory was placed parallel and touching the outer surface of the SAM phantom (planar section). The holster accessory provided a 1.8 cm spacing from the keypad side of the DUT to the SAM phantom (planar section).
- The DUT was evaluated for body SAR with the Hand-held PC placed inside the MX9420HOLSTER accessory with the keypad side facing the back side of the holster and the top end of the DUT facing the bottom end of the holster. The back side of the holster accessory was placed parallel and touching the outer surface of the SAM phantom (planar section). The holster accessory provided a 1.0 cm spacing from the keypad side of the DUT to the SAM phantom (planar section).
- The DUT was evaluated for body SAR with the left keypad side placed parallel to the outer surface of the SAM phantom (planar section) and a 2.0 cm air-gap separation distance. This test configuration is intended for the provision of an LXE body-worn holster accessory that will position the DUT with the left keypad side facing the user's body.
- The DUT was evaluated for body SAR with the right keypad side placed parallel and touching the outer surface of the SAM phantom (planar section). This test configuration is intended for the provision of an LXE body-worn holster accessory that will position the DUT with the right keypad side facing the user's body.

## 9.0 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 determine the values between the dipole center of the probe and the surface of the phantom. For E-Field Probe EX3DV4 this data cannot be measured because the center of the dipole sensors is 1.0 mm away from the probe tip and the distance between the probe and the boundary must be larger than 25% of the probe diameter. The probe diameter is 2.4 mm (see probe calibration document in Appendix F). In the DASY4 software, the distance between the sensor center and phantom surface is set to 2.0 mm. This provides a distance of 1.0 mm between the probe tip and the surface. For E-Field Probe ET3DV6 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 of the values between the dipole center and the surface of the phantom 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 32 mm x 32 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.

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>	<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 9 of 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 10.0 SYSTEM PERFORMANCE CHECK

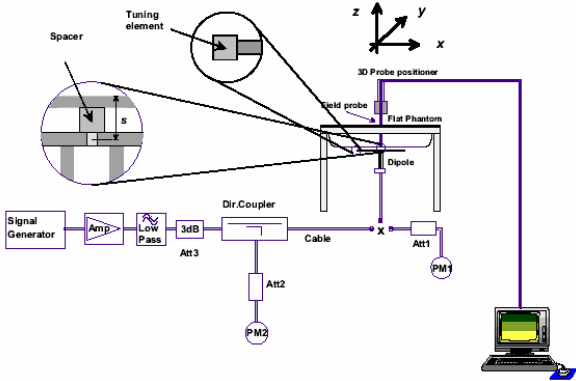



Prior to the SAR evaluations daily system checks were performed at the planar section of the SAM phantom with 835 MHz, 1900 MHz and 2450 MHz SPEAG dipoles (see Appendix B for system performance check evaluation plots) in accordance with the procedures described in IEEE Standard 1528-2003 (see reference [5]). The dielectric parameters of the simulated tissue mixtures were measured prior to the system performance checks using an HP 85070C Dielectric Probe Kit and an HP 8753ET Network Analyzer (see Appendix C). 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 values (see Appendix E for system manufacturer's dipole calibration procedures).


### SYSTEM PERFORMANCE CHECK EVALUATION RESULTS

Test Date	Fluid Freq.	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)
	Body (MHz)	SPEAG Target	Meas.	Dev.	SPEAG Target	Meas.	Dev.	SPEAG Target	Meas.	Dev.						
May 12	835	2.49 $\pm 10\%$	2.33	-6.4%	55.2 $\pm 5\%$	54.1	-2.0%	0.97 $\pm 5\%$	0.97	0.0%	1000	23.5	22.8	$\geq 15$	35	101.1
May 10	1900	10.6 $\pm 10\%$	10.6	0.0%	53.3 $\pm 5\%$	51.7	-3.0%	1.52 $\pm 5\%$	1.55	+2.0%	1000	24.1	23.2	$\geq 15$	35	101.1
May 07	2450	12.9 $\pm 10\%$	14.0	+8.5%	52.7 $\pm 5\%$	51.5	-2.3%	1.95 $\pm 5\%$	2.02	+3.6%	1000	25.3	23.8	$\geq 15$	35	101.1

#### Notes

1. The target SAR values are the measured values from the dipole calibration performed by SPEAG (see Appendix E).
2. The target dielectric parameters are the nominal values from the dipole calibration performed by SPEAG (see Appendix E).
3. The fluid temperature was measured prior to and after the system performance check to ensure the temperature remained within  $\pm 2^\circ\text{C}$  of the fluid temperature reported during the dielectric parameter measurements.
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).

							
System Performance Check Setup (IEEE 1528-2003)		835 MHz Validation Dipole		1900 MHz Validation Dipole		2450 MHz Validation Dipole	

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

## 11.0 SIMULATED EQUIVALENT TISSUES

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



835 MHz TISSUE MIXTURES		
INGREDIENT	835 MHz Head	835 MHz Body
Water	40.71 %	53.79 %
Sugar	56.63 %	45.13 %
Salt	1.48 %	0.98 %
HEC	0.99 %	--
Bactericide	0.19 %	0.10 %

1900 MHz TISSUE MIXTURES		
INGREDIENT	1900 MHz Head	1900 MHz Body
Water	55.85 %	69.85 %
Glycol Monobutyl	44.00 %	29.89 %
Salt	0.15 %	0.26 %

2450 MHz TISSUE MIXTURES		
INGREDIENT	2450 MHz Head	2450 MHz Body
Water	52.00 %	69.98 %
Glycol Monobutyl	48.00 %	30.00 %
Salt	-	0.02 %


## 12.0 SAR LIMITS



SAR RF EXPOSURE LIMITS			
FCC 47 CFR 2.1093	Health Canada Safety Code 6	(General Population / Uncontrolled Exposure)	(Occupational / Controlled Exposure)
Spatial Average (averaged over the whole body)		0.08 W/kg	0.4 W/kg
Spatial Peak (averaged over any 1g of tissue)		<b>1.6 W/kg</b>	8.0 W/kg
Spatial Peak (hands/wrists/feet/ankles averaged over 10g)		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.			

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

## 13.0 ROBOT SYSTEM SPECIFICATIONS

<b><u>Specifications</u></b>	
<b>Positioner</b>	Stäubli Unimation Corp. Robot Model: RX60L
<b>Repeatability</b>	0.02 mm
<b>No. of axis</b>	6
<b><u>Data Acquisition Electronic (DAE) System</u></b>	
<b><u>Cell Controller</u></b>	
<b>Processor</b>	AMD Athlon XP 2400+
<b>Clock Speed</b>	2.0 GHz
<b>Operating System</b>	Windows XP Professional
<b><u>Data Converter</u></b>	
<b>Features</b>	Signal Amplifier, multiplexer, A/D converter, and control logic
<b>Software</b>	Measurement Software: DASY4, V4.7 Build 44
	Postprocessing Software: SEMCAD, V1.8 Build 171
<b>Connecting Lines</b>	Optical downlink for data and status info.; Optical uplink for commands and clock
<b><u>DASY4 Measurement Server</u></b>	
<b>Function</b>	Real-time data evaluation for field measurements and surface detection
<b>Hardware</b>	PC/104 166MHz Pentium CPU; 32 MB chipdisk; 64 MB RAM
<b>Connections</b>	COM1, COM2, DAE, Robot, Ethernet, Service Interface
<b><u>E-Field Probe</u></b>	
<b><u>Probe (850 Band)</u></b>	
<b>Model</b>	ET3DV6
<b>Serial No.</b>	1590
<b>Construction</b>	Triangular core fiber optic detection system
<b>Frequency</b>	10 MHz to 6 GHz
<b>Linearity</b>	±0.2 dB (30 MHz to 3 GHz)
<b><u>Probe (1900 Band)</u></b>	
<b>Model</b>	EX3DV4
<b>Serial No.</b>	3600
<b>Construction</b>	Symmetrical design with triangular core
<b>Frequency</b>	10 MHz to 6 GHz
<b>Linearity</b>	±0.2 dB (30 MHz to 3 GHz)
<b><u>Phantom(s)</u></b>	
<b>Type</b>	SAM V4.0C
<b>Shell Material</b>	Fiberglass
<b>Thickness</b>	2.0 ±0.1 mm
<b>Volume</b>	Approx. 25 liters

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 64

 Testing and Engineering Services Ltd	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 14.0 PROBE SPECIFICATIONS

### ET3DV6 E-Field Probe

**Construction:** Symmetrical design with triangular core  
Built-in shielding against static charges  
PEEK enclosure material (resistant to organic solvents, glycol)

**Calibration:** In air from 10 MHz to 2.5 GHz  
In brain simulating tissue at frequencies of 900 MHz and 1.8 GHz (accuracy  $\pm 8\%$ )

**Frequency:** 10 MHz to  $> 6$  GHz; Linearity:  $\pm 0.2$  dB (30 MHz to 3 GHz)

**Directivity:**  $\pm 0.2$  dB in brain tissue (rotation around probe axis)  
 $\pm 0.4$  dB in brain tissue (rotation normal to probe axis)

**Dynamic Range:**  $5 \mu\text{W/g}$  to  $> 100 \text{ mW/g}$ ; Linearity:  $\pm 0.2$  dB

**Surface Detect:**  $\pm 0.2$  mm repeatability in air and clear liquids over diffuse reflecting surfaces

**Dimensions:** Overall length: 330 mm  
Tip length: 16 mm  
Body diameter: 12 mm  
Tip diameter: 6.8 mm  
Distance from probe tip to dipole centers: 2.7 mm

**Application:** General dosimetry up to 3 GHz  
Compliance tests of mobile phone



ET3DV6 E-Field Probe

### EX3DV4 E-Field Probe

**Construction:** Symmetrical design with triangular core  
Built-in shielding against static charges  
PEEK enclosure material (resistant to organic solvents, e.g. DGBE)

**Calibration:** Basic Broadband Calibration in air: 10-3000 MHz  
Conversion Factors (CF) for HSL 900 and HSL 1750

**Frequency:** 10 MHz to  $> 6$  GHz; Linearity:  $\pm 0.2$  dB (30 MHz to 3 GHz)

**Directivity:**  $\pm 0.3$  dB in HSL (rotation around probe axis)  
 $\pm 0.5$  dB in tissue material (rotation normal to probe axis)

**Dynamic Range:**  $10 \mu\text{W/g}$  to  $> 100 \text{ mW/g}$ ; Linearity:  $\pm 0.2$  dB (noise: typically  $< 1 \mu\text{W/g}$ )

**Dimensions:** Overall length: 330 mm (Tip: 20 mm)  
Tip diameter: 2.5 mm (Body: 12 mm)  
Typical distance from probe tip to dipole centers: 1.0 mm

**Application:** High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better than 30%.



EX3DV4 E-Field Probe

## 15.0 SAM TWIN PHANTOM V4.0C

The SAM Twin Phantom V4.0C is a fiberglass shell phantom with a 2.0 mm ( $\pm 0.2$  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 G for specifications of the SAM Twin Phantom V4.0C).




SAM Twin Phantom V4.0C

## 16.0 DEVICE HOLDER




The DASY4 device holder has two scales for device rotation (with respect to the body axis) and the device inclination (with respect to the line between the ear openings). The plane between the ear openings and the mouth tip has a rotation angle of  $65^\circ$ . 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. For evaluation of devices with a larger footprint (e.g. Laptop PC, Tablet PC), or to avoid perturbation due to device holder clamps for devices with a smaller footprint, a Plexiglas platform is attached to the device holder.



Device Holder


<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>	<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 64






	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	  Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 17.0 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	27Apr10	Annual
x	-ET3DV6 E-Field Probe	00017	1590	16Jul09	Annual
x	-EX3DV4 E-Field Probe	00213	3600	29Apr10	Annual
x	-D835V2 Validation Dipole	00217	4d075	20Apr09	Biennial
x	-D1900V2 Validation Dipole	00218	5d107	21Apr09	Biennial
x	-D2450V2 Validation Dipole	00219	825	17Apr09	Biennial
x	-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	04May10	Biennial
x	Gigatronics 80701A Power Sensor	00014	1833699	04May10	Biennial
x	HP 8753ET Network Analyzer	00134	US39170292	04May10	Biennial
x	Agilent 8960 Series 10 Communication Test Set	N/A	GB46311315	24Sep09	Biennial
x	Rohde & Schwarz SMR20 Signal Generator	00006	100104	CNR	CNR
x	Amplifier Research 5S1G4 Power Amplifier	00106	26235	CNR	CNR
Abbr.	CNR = Calibration Not Required; N/A = Not Applicable				


<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>		
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 64





	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	  Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## 18.0 MEASUREMENT UNCERTAINTIES


UNCERTAINTY BUDGET FOR DEVICE EVALUATION									
Uncertainty Component	IEEE 1528 Section	Uncertainty Value $\pm\%$	Probability Distribution	Divisor	ci 1g	ci 10g	Uncertainty Value $\pm\%$ (1g)	Uncertainty Value $\pm\%$ (10g)	V <sub>i</sub> or V <sub>eff</sub>
<b>Measurement System</b>									
Probe Calibration	E.2.1	5.5	Normal	1	1	1	5.5	5.5	$\infty$
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	2.5	Normal	1	0.64	0.43	1.6	1.1	$\infty$
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	Normal	1	0.6	0.49	1.8	1.5	$\infty$
<b>Combined Standard Uncertainty</b>			<b>RSS</b>				<b>10.63</b>	<b>10.37</b>	
<b>Expanded Uncertainty (95% Confidence Interval)</b>			<b>k=2</b>				<b>21.25</b>	<b>20.74</b>	
Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003									



Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	


## 19.0 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 Draft (106-62209-2-CDV\_090323) - "Human exposure to radio frequency fields from hand-held & body-mounted wireless comm. devices - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (30 MHz to 6 GHz)".
- [7] Federal Communications Commission, Office of Engineering and Technology - "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies"; KDB 447498 D01v04: November 2009.
- [8] Federal Communications Commission, Office of Engineering and Technology - "SAR Evaluation Considerations for Handsets with Multiple Transmitters and Antennas"; KDB 648474 D01v01r05: September 2008.
- [9] 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.
- [10] Schmid & Partner Engineering AG - DASY4 Manual V4.6, Chapter 16 Application Note, Head Tissue Recipe: Sept. 2005.
- [11] Schmid & Partner Engineering AG - DASY4 Manual V4.6, Chapter 17 Application Note, Body Tissue Recipe: Sept. 2005.
- [12] ISO/IEC 17025 - "General requirements for the competence of testing and calibration laboratories (ISO/IEC 17025:2005)."

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>	<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## APPENDIX A - SAR MEASUREMENT DATA

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>	<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/12/2010

## Body SAR - Cellular 850 Band - GPRS (4 Uplink) - 824.2 MHz - Channel 128 - Front Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: FC3422HOLSTER**

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 uplink)

Frequency: 824.2 MHz; Duty Cycle: 1:2.08

Medium: M835 Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 0.96 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn SAR - 1.8 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)**

**Area Scan (11x18x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.038 mW/g

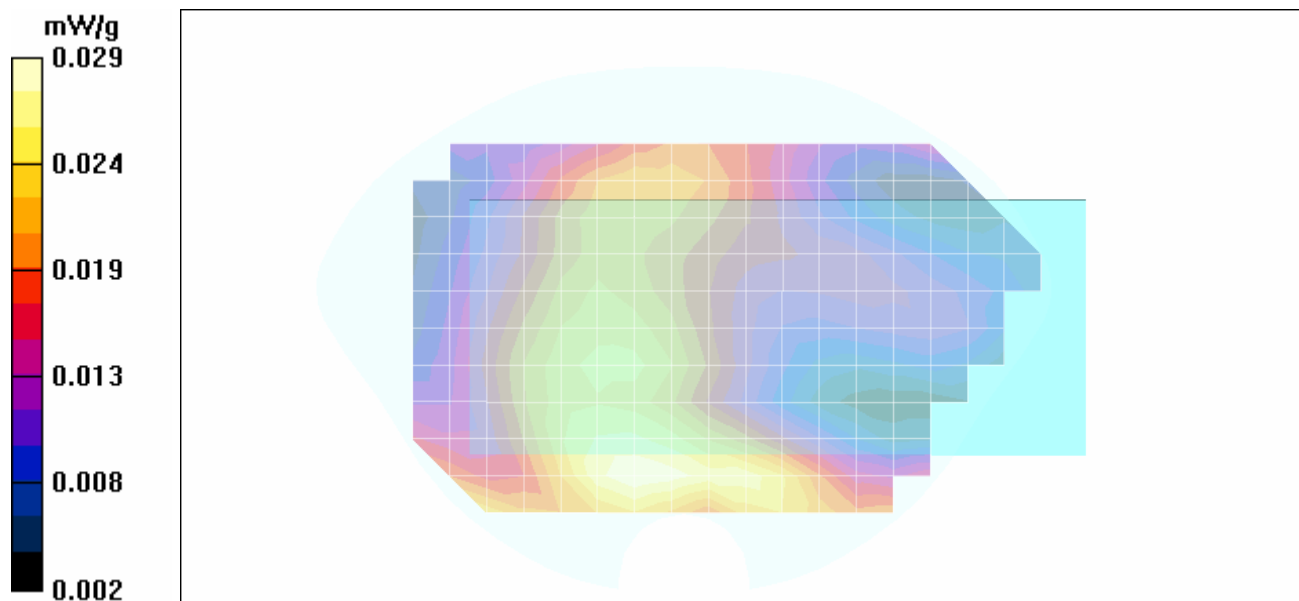
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 5.23 V/m; Power Drift = 0.175 dB



Peak SAR (extrapolated) = 0.037 W/kg

**SAR(1 g) = 0.027 mW/g; SAR(10 g) = 0.019 mW/g**

Maximum value of SAR (measured) = 0.029 mW/g



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/12/2010

## Body SAR - Cellular 850 Band - GPRS (4 Uplink) - 824.2 MHz - Channel 128 - Front Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: MX9420HOLSTER**

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 uplink)

Frequency: 824.2 MHz; Duty Cycle: 1:2.08

Medium: M835 Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 0.96 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 1.0 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.038 mW/g

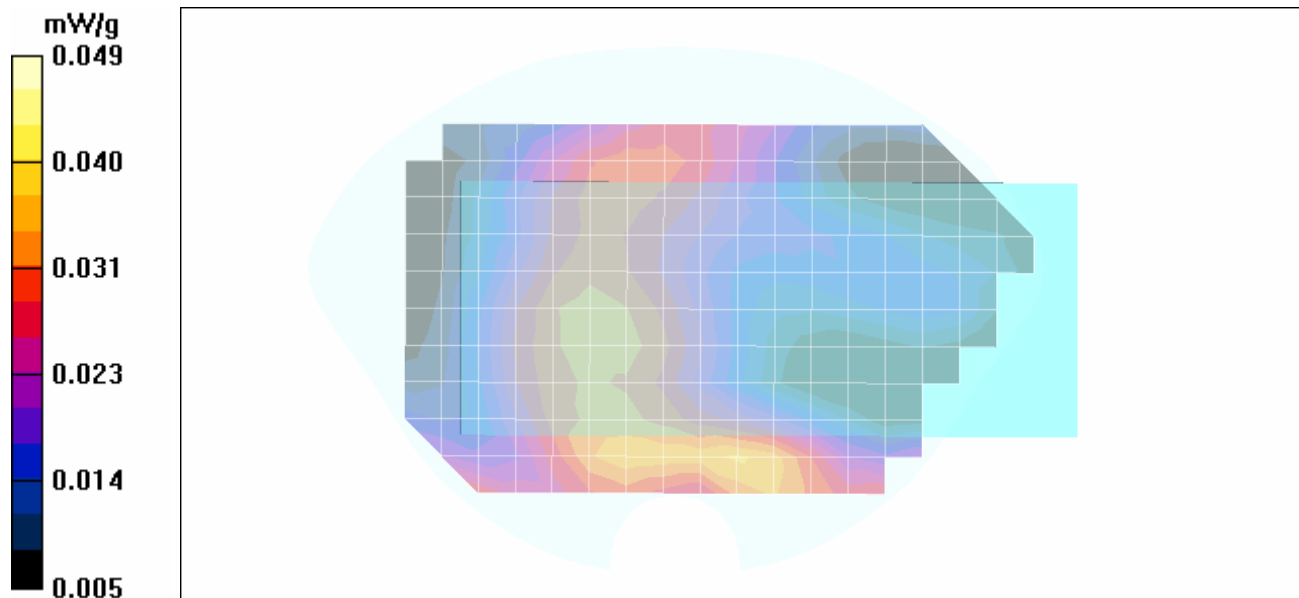
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 7.00 V/m; Power Drift = 0.206 dB



Peak SAR (extrapolated) = 0.062 W/kg

**SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.030 mW/g**

Maximum value of SAR (measured) = 0.049 mW/g



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 19 of 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

Date Tested: 05/12/2010

## Body SAR - Cellular 850 Band - GPRS (4 Uplink) - 824.2 MHz - Channel 128 - Left Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: None (2.0 cm Air-Gap Spacing)**

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 uplink)

Frequency: 824.2 MHz; Duty Cycle: 1:2.08

Medium: M835 Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 0.96 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 2.0 cm air-gap spacing from left side of DUT to SAM phantom (planar section)

**Area Scan (7x12x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.581 mW/g

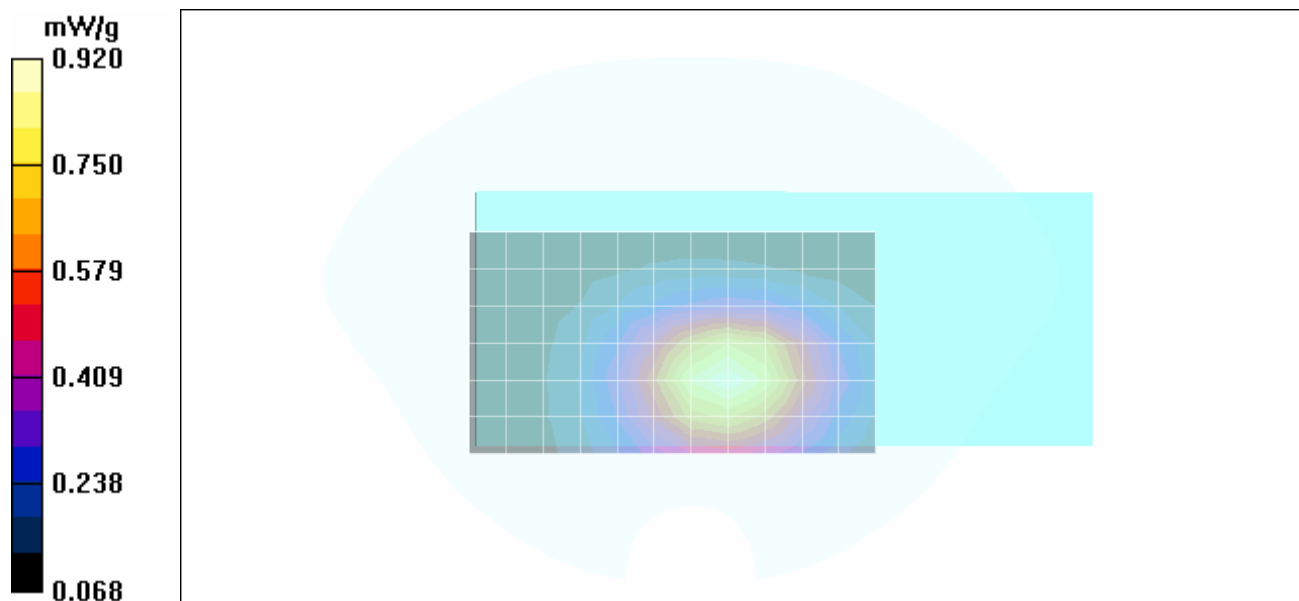
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 19.1 V/m; Power Drift = -0.118 dB

Peak SAR (extrapolated) = 1.17 W/kg



**SAR(1 g) = 0.859 mW/g; SAR(10 g) = 0.590 mW/g**

Maximum value of SAR (measured) = 0.920 mW/g



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 64



	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/12/2010

## Body SAR - Cellular 850 Band - GPRS (4 Uplink) - 836.6 MHz - Channel 190 - Left Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: None (2.0 cm Air-Gap Spacing)**

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 uplink)

Frequency: 836.6 MHz; Duty Cycle: 1:2.08

Medium: M835 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.97 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 2.0 cm air-gap spacing from left side of DUT to SAM phantom (planar section)

**Area Scan (7x12x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.978 mW/g

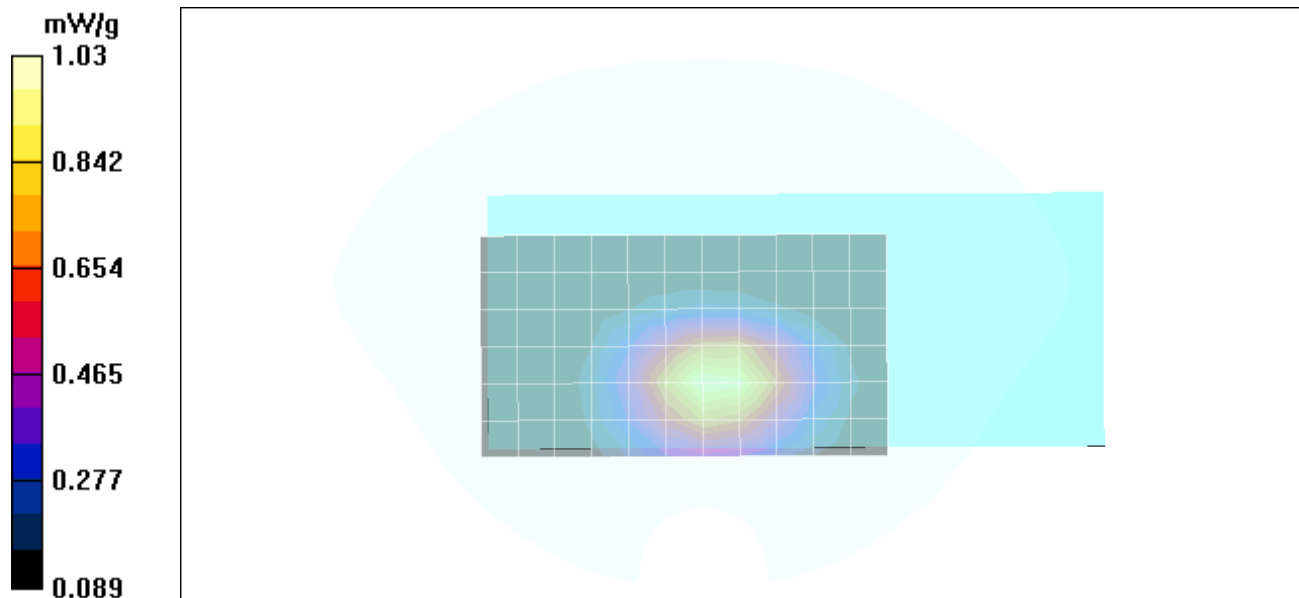
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 35.3 V/m; Power Drift = 0.027 dB



Peak SAR (extrapolated) = 1.30 W/kg

**SAR(1 g) = 0.957 mW/g; SAR(10 g) = 0.650 mW/g**

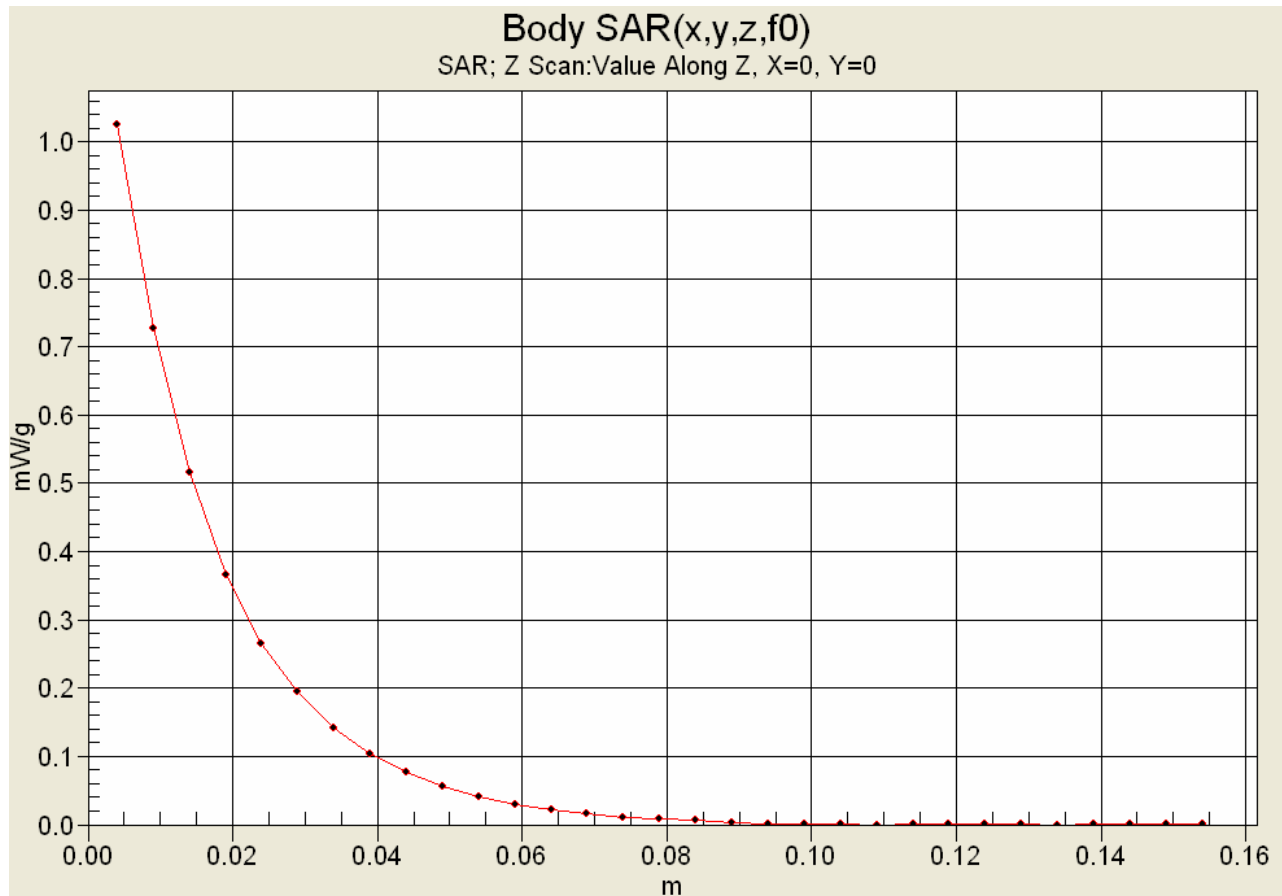
Maximum value of SAR (measured) = 1.03 mW/g






<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## Z-Axis Scan



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>		
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/12/2010

## Body SAR - Cellular 850 Band - GPRS (4 Uplink) - 848.8 MHz - Channel 251 - Left Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: None (2.0 cm Air-Gap Spacing)**

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 uplink)

Frequency: 848.8 MHz; Duty Cycle: 1:2.08

Medium: M835 Medium parameters used:  $f = 845 \text{ MHz}$ ;  $\sigma = 0.98 \text{ mho/m}$ ;  $\epsilon_r = 54$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 2.0 cm air-gap spacing from left side of DUT to SAM phantom (planar section)

**Area Scan (7x12x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.957 mW/g

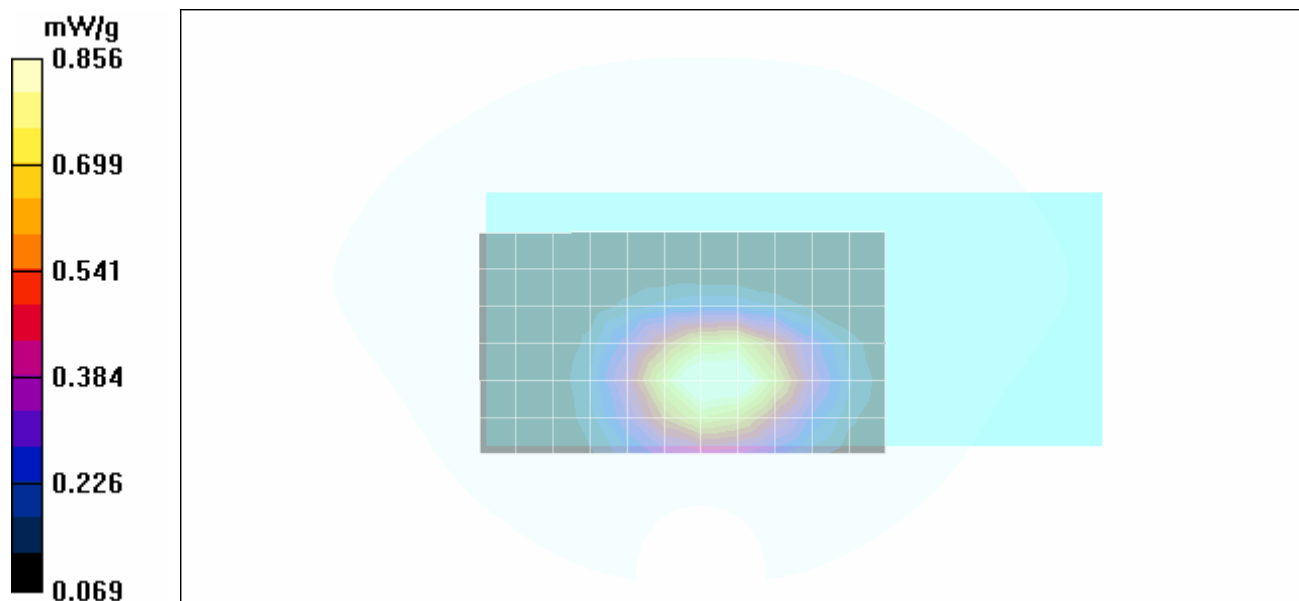
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 33.1 V/m; Power Drift = -0.130 dB



Peak SAR (extrapolated) = 1.10 W/kg

**SAR(1 g) = 0.803 mW/g; SAR(10 g) = 0.550 mW/g**

Maximum value of SAR (measured) = 0.856 mW/g



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/12/2010

## Body SAR - Cellular 850 Band - GPRS (4 Uplink) - 824.2 MHz - Channel 128 - Right Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: None (Touch Position)**

Ambient Temp: 23.8°C; Fluid Temp: 22.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 uplink)

Frequency: 824.2 MHz; Duty Cycle: 1:2.08

Medium: M835 Medium parameters used:  $f = 825 \text{ MHz}$ ;  $\sigma = 0.96 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - Right side of DUT touching SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.441 mW/g

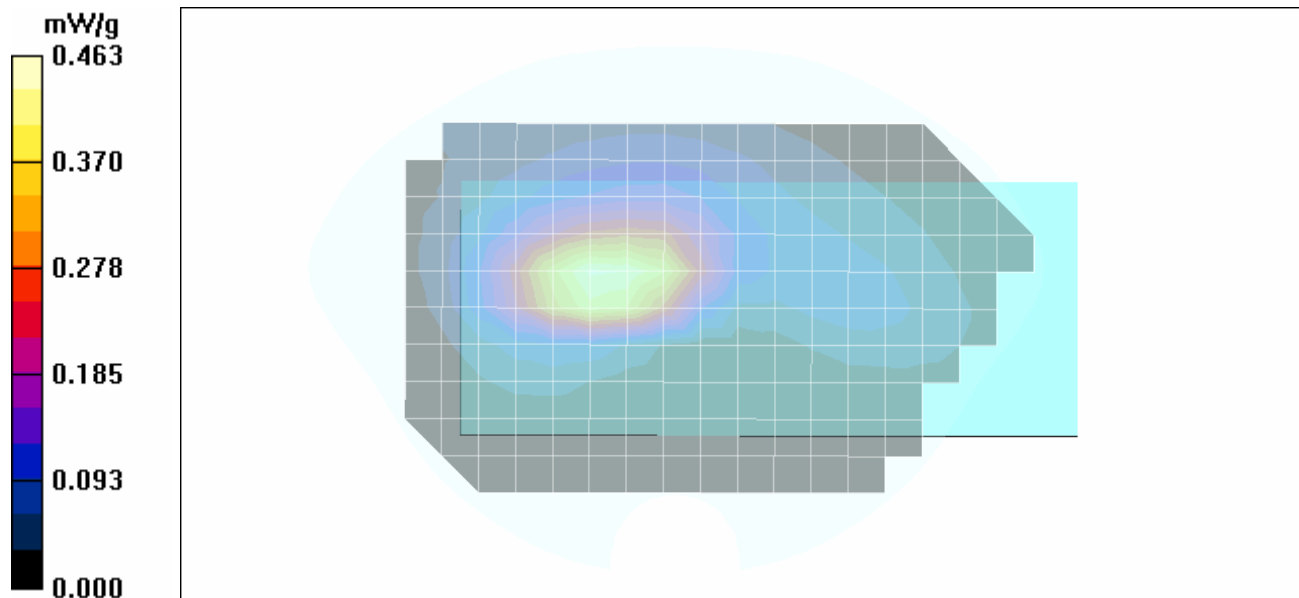
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 21.5 V/m; Power Drift = 0.235 dB



Peak SAR (extrapolated) = 0.780 W/kg

**SAR(1 g) = 0.450 mW/g; SAR(10 g) = 0.270 mW/g**

Maximum value of SAR (measured) = 0.463 mW/g



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>		
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/10/2010

## Body SAR - PCS 1900 Band - GPRS (4 Uplink) - 1850.2 MHz - Channel 512 - Front Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: FC3422HOLSTER**

Ambient Temp: 24.3°C; Fluid Temp: 23.4°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 Uplink)

Frequency: 1850.2 MHz; Duty Cycle: 1:2.08

Medium: M1900 Medium parameters used:  $f = 1850 \text{ MHz}$ ;  $\sigma = 1.49 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.47, 6.47, 6.47); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn SAR - 1.8 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)**

**Area Scan (11x18x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.047 mW/g

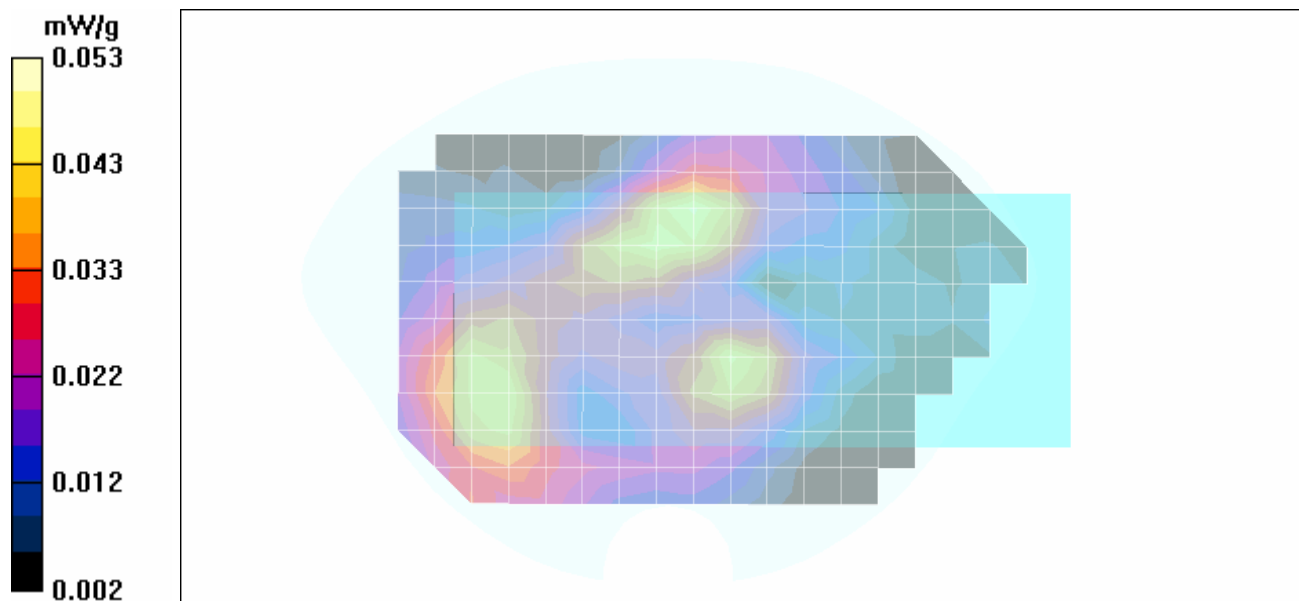
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 5.60 V/m; Power Drift = 0.160 dB



Peak SAR (extrapolated) = 0.071 W/kg

**SAR(1 g) = 0.045 mW/g; SAR(10 g) = 0.029 mW/g**

Maximum value of SAR (measured) = 0.053 mW/g



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/10/2010

## Body SAR - PCS 1900 Band - GPRS (4 Uplink) - 1850.2 MHz - Channel 512 - Front Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: MX9420HOLSTER**

Ambient Temp: 24.3°C; Fluid Temp: 23.4°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 Uplink)

Frequency: 1850.2 MHz; Duty Cycle: 1:2.08

Medium: M1900 Medium parameters used:  $f = 1850 \text{ MHz}$ ;  $\sigma = 1.49 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.47, 6.47, 6.47); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn SAR - 1.0 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)**

**Area Scan (11x18x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

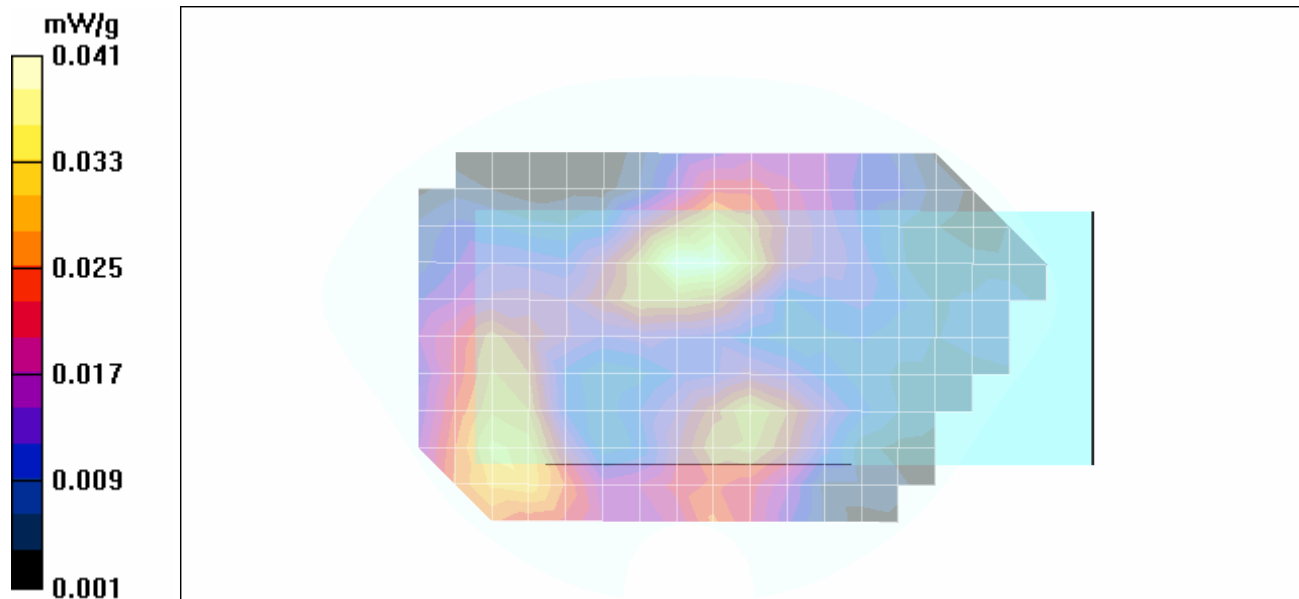
Maximum value of SAR (measured) = 0.041 mW/g


**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$

Reference Value = 5.04 V/m; Power Drift = -0.018 dB



Peak SAR (extrapolated) = 0.055 W/kg

**SAR(1 g) = 0.034 mW/g; SAR(10 g) = 0.022 mW/g**



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 64



	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Date Tested: 05/10/2010

## Body SAR - PCS 1900 Band - GPRS (4 Uplink) - 1850.2 MHz - Channel 512 - Left Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: None (2.0 Air-Gap Spacing)**

Ambient Temp: 24.3°C; Fluid Temp: 23.4°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 Uplink)

Frequency: 1850.2 MHz; Duty Cycle: 1:2.08

Medium: M1900 Medium parameters used:  $f = 1850 \text{ MHz}$ ;  $\sigma = 1.49 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.47, 6.47, 6.47); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 2.0 cm air-gap spacing from left side of DUT to SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.631 mW/g

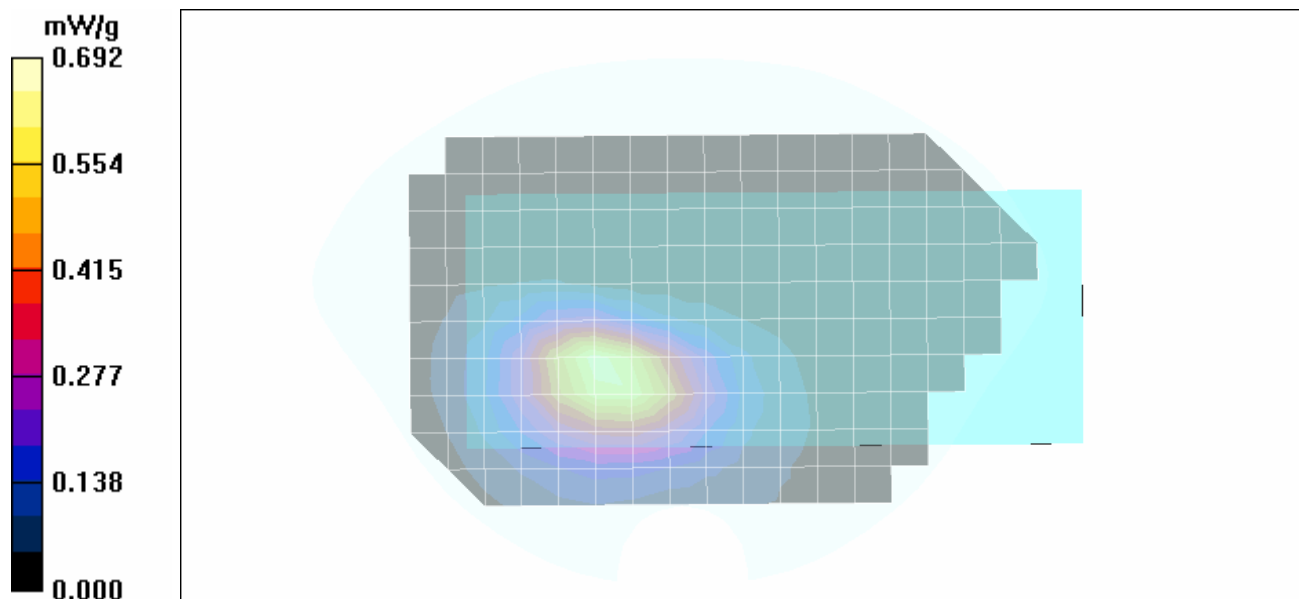
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 20.8 V/m; Power Drift = -0.196 dB



Peak SAR (extrapolated) = 0.956 W/kg

**SAR(1 g) = 0.591 mW/g; SAR(10 g) = 0.376 mW/g**

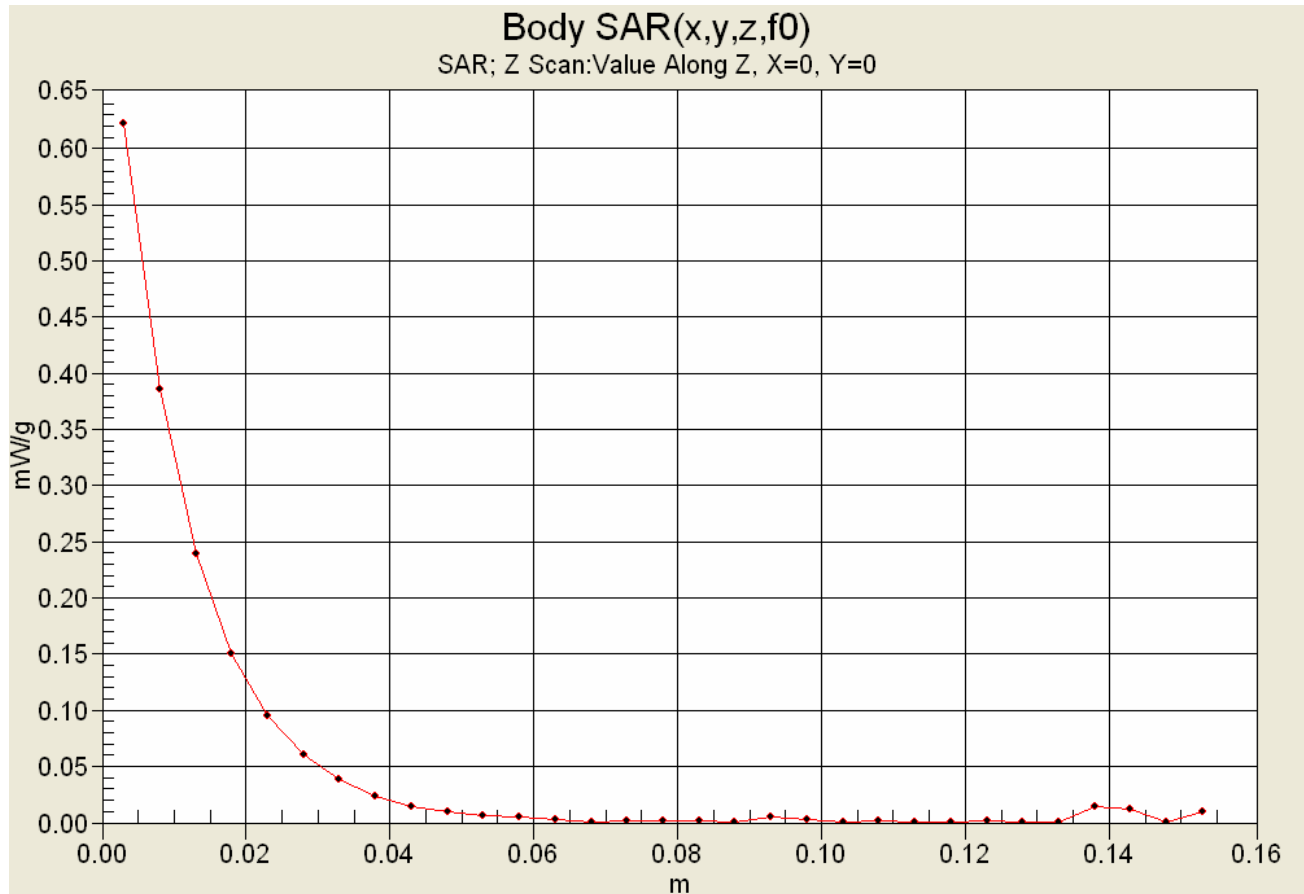
Maximum value of SAR (measured) = 0.692 mW/g






<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## Z-Axis Scan



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>		
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

Date Tested: 05/10/2010

## Body SAR - PCS 1900 Band - GPRS (4 Uplink) - 1850.2 MHz - Channel 512 - Right Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: None (Touch Position)**

Ambient Temp: 24.3°C; Fluid Temp: 23.4°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS (4 Uplink)

Frequency: 1850.2 MHz; Duty Cycle: 1:2.08

Medium: M1900 Medium parameters used:  $f = 1850 \text{ MHz}$ ;  $\sigma = 1.49 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.47, 6.47, 6.47); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - Right side of DUT touching SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.127 mW/g

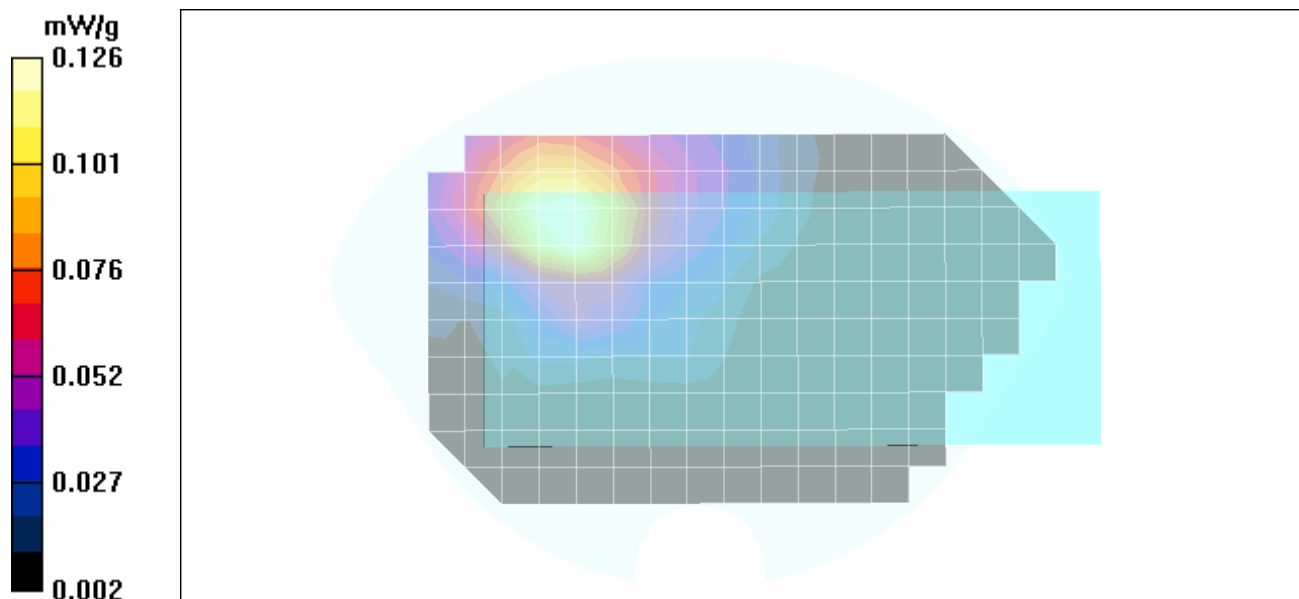
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 8.92 V/m; Power Drift = -0.014 dB



Peak SAR (extrapolated) = 0.166 W/kg

**SAR(1 g) = 0.108 mW/g; SAR(10 g) = 0.071 mW/g**

Maximum value of SAR (measured) = 0.126 mW/g



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

Date Tested: 05/07/2010

## Body SAR - 2450 WLAN - 802.11b - 1Mbps - 2437 MHz - Ch. 6 - AUX Ant. - Front Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: FC3422HOLSTER**

Ambient Temp: 25.0°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: DSSS WLAN

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2440 \text{ MHz}$ ;  $\sigma = 2 \text{ mho/m}$ ;  $\epsilon_r = 51.6$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn SAR - 1.8 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)**

**Area Scan (11x18x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.031 mW/g

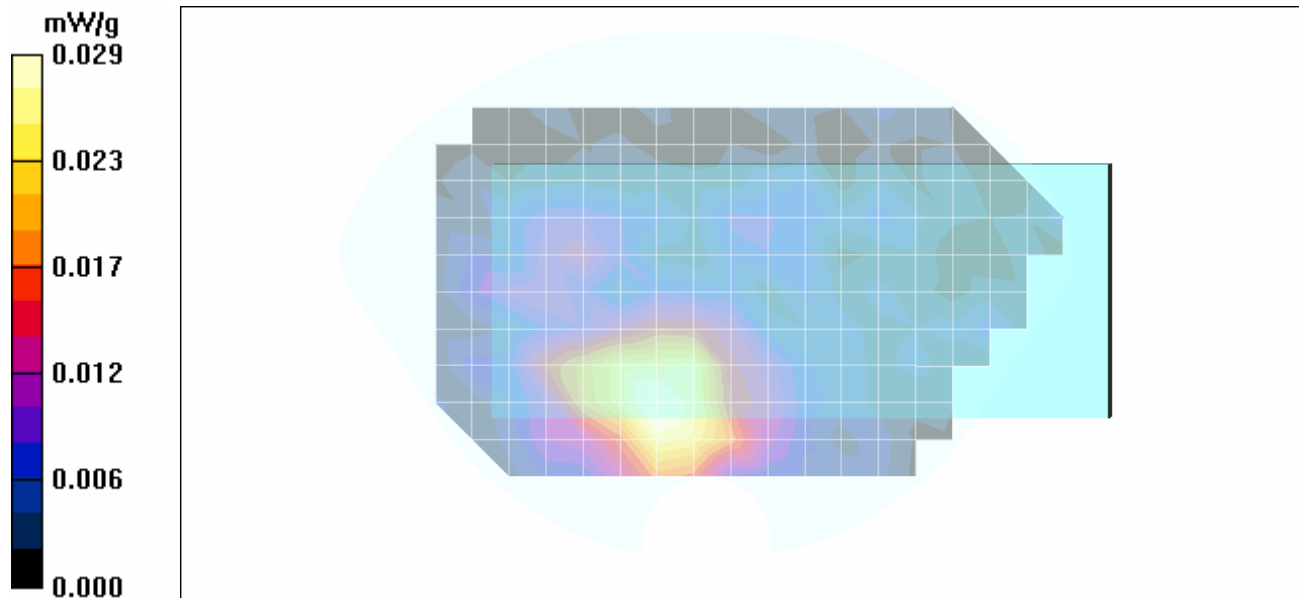
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 3.83 V/m; Power Drift = -0.050 dB



Peak SAR (extrapolated) = 0.042 W/kg

**SAR(1 g) = 0.024 mW/g; SAR(10 g) = 0.014 mW/g**

Maximum value of SAR (measured) = 0.029 mW/g



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>		
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

Date Tested: 05/07/2010

## Body SAR - 2450 WLAN - 802.11b - 1Mbps - 2437 MHz - Ch. 6 - AUX Ant. - Front Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: MX9420HOLSTER**

Ambient Temp: 25.0°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: DSSS WLAN

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2440 \text{ MHz}$ ;  $\sigma = 2 \text{ mho/m}$ ;  $\epsilon_r = 51.6$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

**Body-worn SAR - 1.0 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)**

**Area Scan (11x18x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.064 mW/g

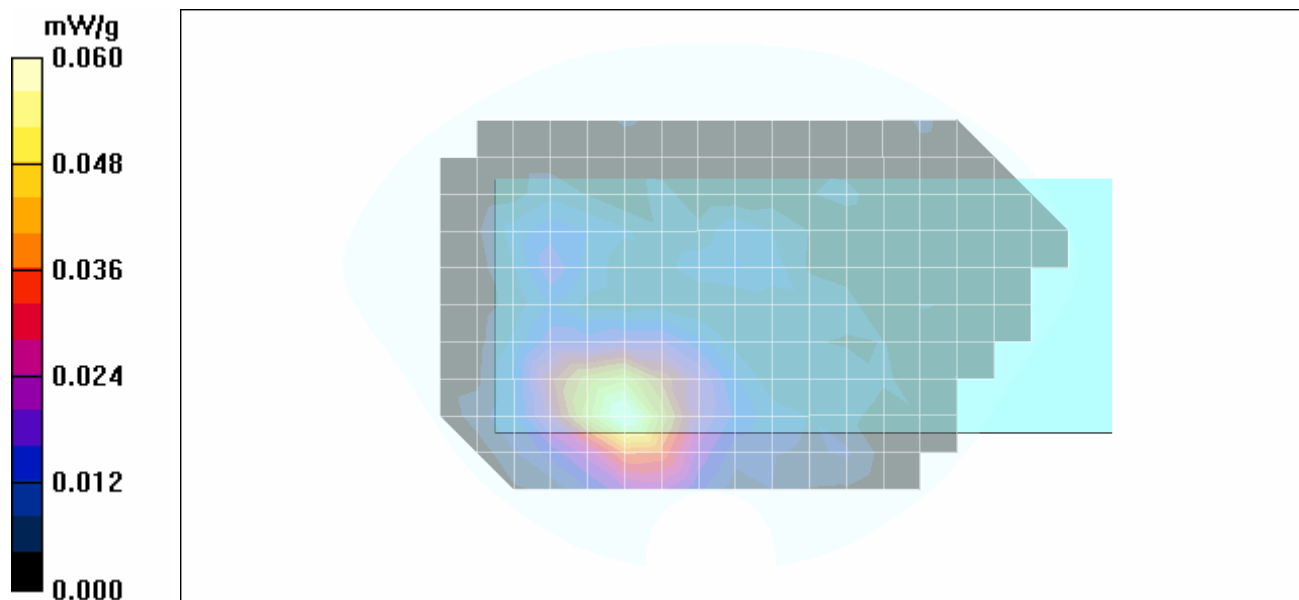
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 5.53 V/m; Power Drift = 0.171 dB



Peak SAR (extrapolated) = 0.093 W/kg

**SAR(1 g) = 0.050 mW/g; SAR(10 g) = 0.028 mW/g**

Maximum value of SAR (measured) = 0.060 mW/g



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

Date Tested: 05/07/2010

## Body SAR - 2450 WLAN - 802.11b - 1Mbps - 2437 MHz - Ch. 6 - AUX Ant. - Left Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: None (2.0 cm Air-Gap Spacing)**

Ambient Temp: 25.0°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: DSSS WLAN

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2440 \text{ MHz}$ ;  $\sigma = 2 \text{ mho/m}$ ;  $\epsilon_r = 51.6$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 2.0 cm air-gap spacing from left side of DUT to SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.034 mW/g

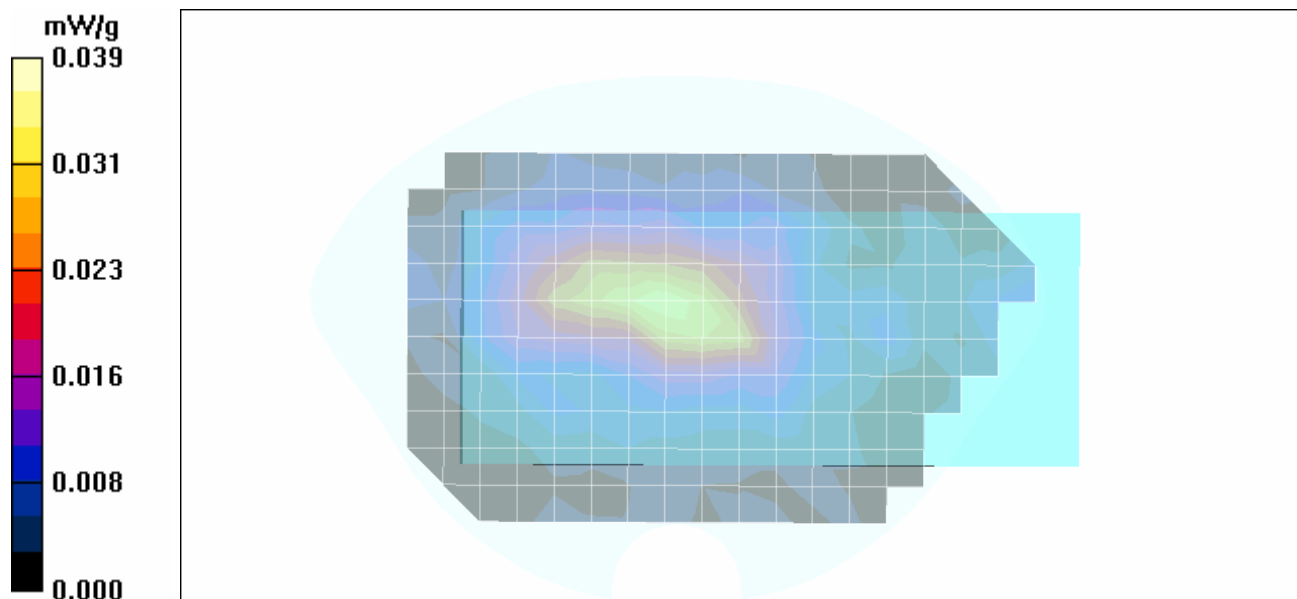
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 4.29 V/m; Power Drift = -0.075 dB

Peak SAR (extrapolated) = 0.057 W/kg



**SAR(1 g) = 0.031 mW/g; SAR(10 g) = 0.017 mW/g**

Maximum value of SAR (measured) = 0.039 mW/g



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 64



	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

Date Tested: 05/07/2010

## Body SAR - 2450 WLAN - 802.11b - 1Mbps - 2437 MHz - Ch. 6 - MAIN Ant. - Front Side of DUT

**DUT:** LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747

**Body-worn Accessory:** FC3422HOLSTER

Ambient Temp: 25.0°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: DSSS WLAN

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2440 \text{ MHz}$ ;  $\sigma = 2 \text{ mho/m}$ ;  $\epsilon_r = 51.6$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 1.8 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.026 mW/g

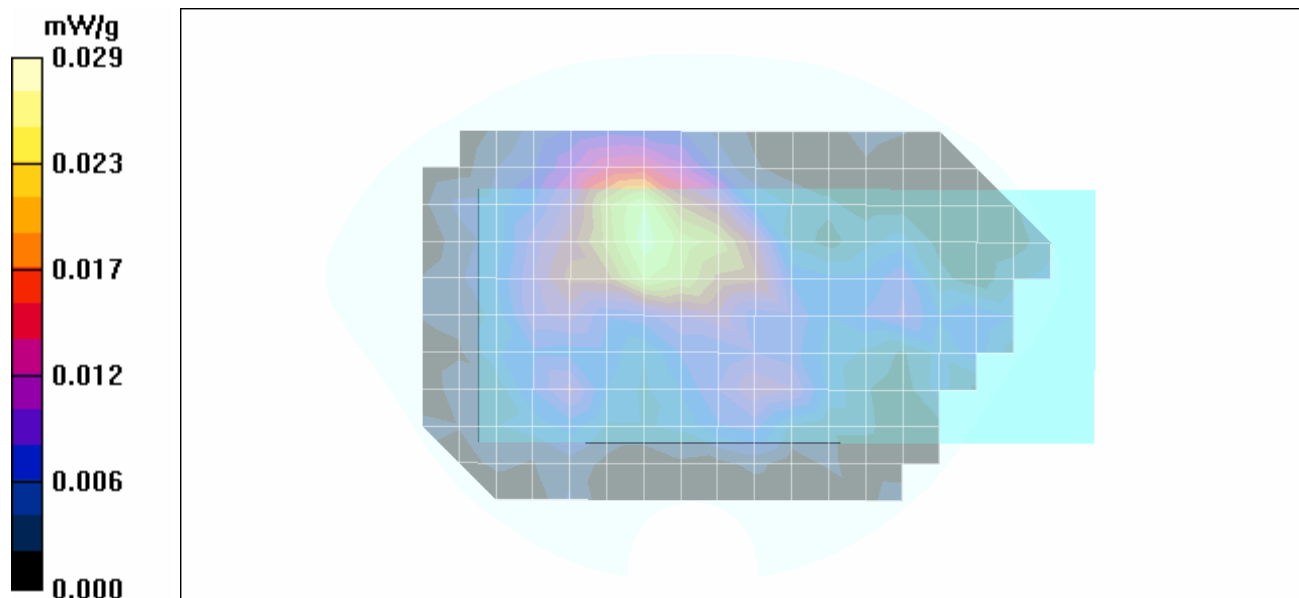
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 3.49 V/m; Power Drift = 0.171 dB



Peak SAR (extrapolated) = 0.044 W/kg

**SAR(1 g) = 0.023 mW/g; SAR(10 g) = 0.013 mW/g**

Maximum value of SAR (measured) = 0.029 mW/g



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>	<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

Date Tested: 05/07/2010

## Body SAR - 2450 WLAN - 802.11b - 1Mbps - 2437 MHz - Ch. 6 - MAIN Ant. - Front Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: MX9420HOLSTER**

Ambient Temp: 25.0°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: DSSS WLAN

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2440 \text{ MHz}$ ;  $\sigma = 2 \text{ mho/m}$ ;  $\epsilon_r = 51.6$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - 1.0 cm accessory spacing between front keypad side of DUT & SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.046 mW/g

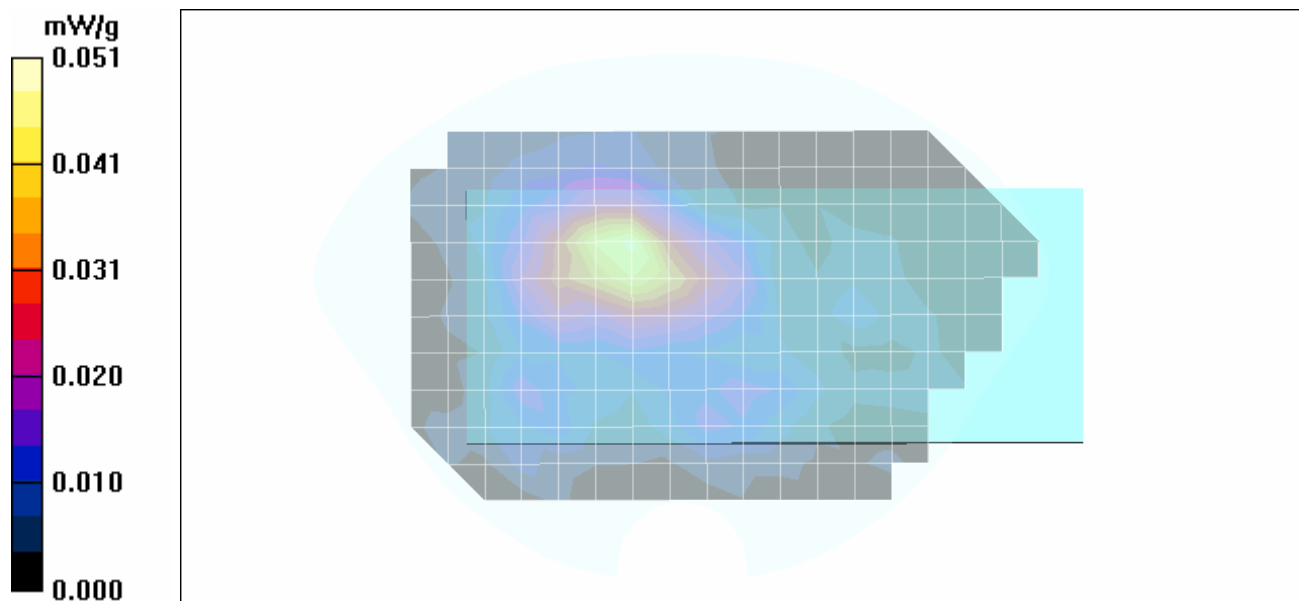
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 4.78 V/m; Power Drift = 0.147 dB



Peak SAR (extrapolated) = 0.075 W/kg

**SAR(1 g) = 0.040 mW/g; SAR(10 g) = 0.024 mW/g**

Maximum value of SAR (measured) = 0.051 mW/g



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

Date Tested: 05/07/2010

## Body SAR - 2450 WLAN - 802.11b - 1Mbps - 2437 MHz - Ch. 6 - MAIN Ant. - Right Side of DUT

**DUT: LXE Model: MX9; Type: Rugged Handheld PC with WWAN, WLAN & Bluetooth; Serial: MX910053747**

**Body-worn Accessory: None (Touch Position)**

Ambient Temp: 25.0°C; Fluid Temp: 23.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: DSSS WLAN

Frequency: 2437 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2440 \text{ MHz}$ ;  $\sigma = 2 \text{ mho/m}$ ;  $\epsilon_r = 51.6$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### Body-worn SAR - Right side of DUT touching SAM phantom (planar section)

**Area Scan (11x18x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.334 mW/g

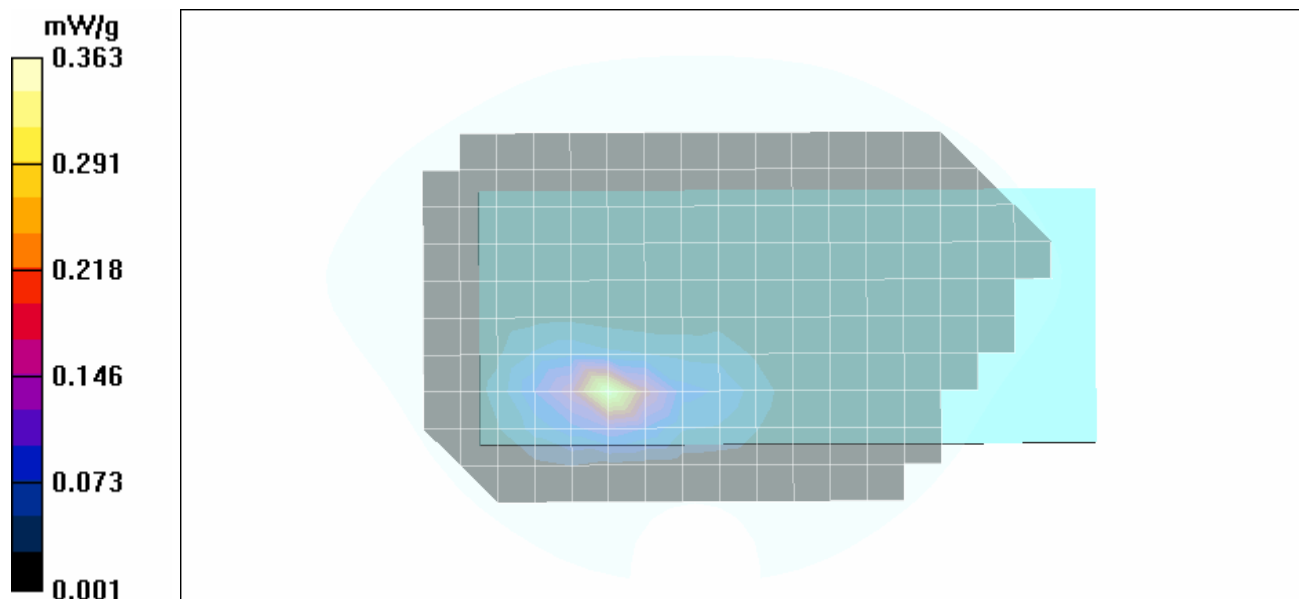
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 12.8 V/m; Power Drift = 0.159 dB



Peak SAR (extrapolated) = 0.672 W/kg

**SAR(1 g) = 0.283 mW/g; SAR(10 g) = 0.117 mW/g**

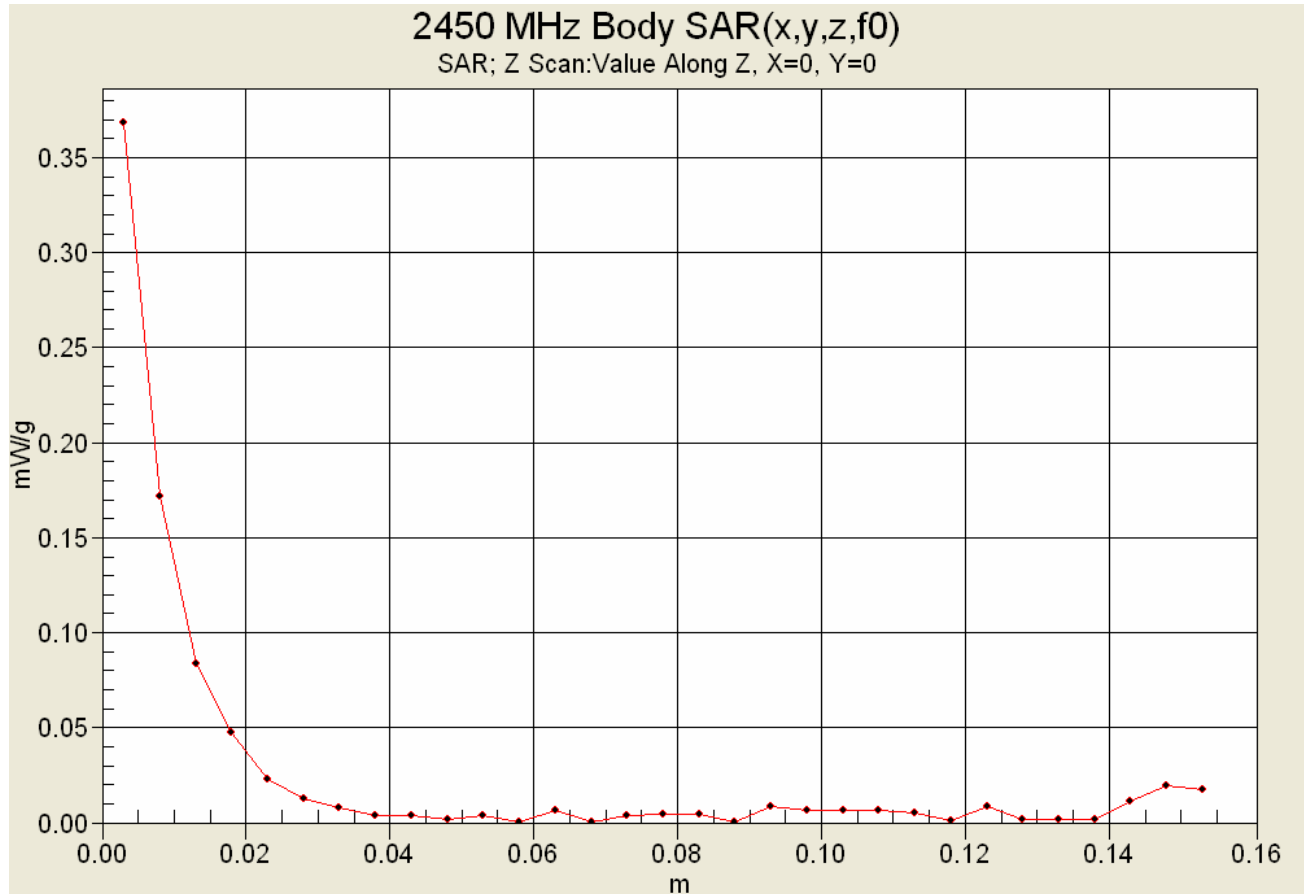
Maximum value of SAR (measured) = 0.363 mW/g






<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	


## Z-Axis Scan





<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## APPENDIX B - SYSTEM PERFORMANCE CHECK DATA

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

Date Tested: 05/12/2010

## System Performance Check - 835 MHz Dipole - Body

**DUT: Dipole 835 MHz; Type: D835V2; Serial: 4d075; Calibrated: 20/04/2009**

Ambient Temp: 23.5°C; Fluid Temp: 22.8°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 835 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used:  $f = 835 \text{ MHz}$ ;  $\sigma = 0.97 \text{ mho/m}$ ;  $\epsilon_r = 54.1$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.34, 6.34, 6.34); Calibrated: 16/07/2009
- Sensor-Surface: 4mm (Mechanical And Optical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### 835 MHz System Performance Check

**Area Scan (6x10x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 2.40 mW/g

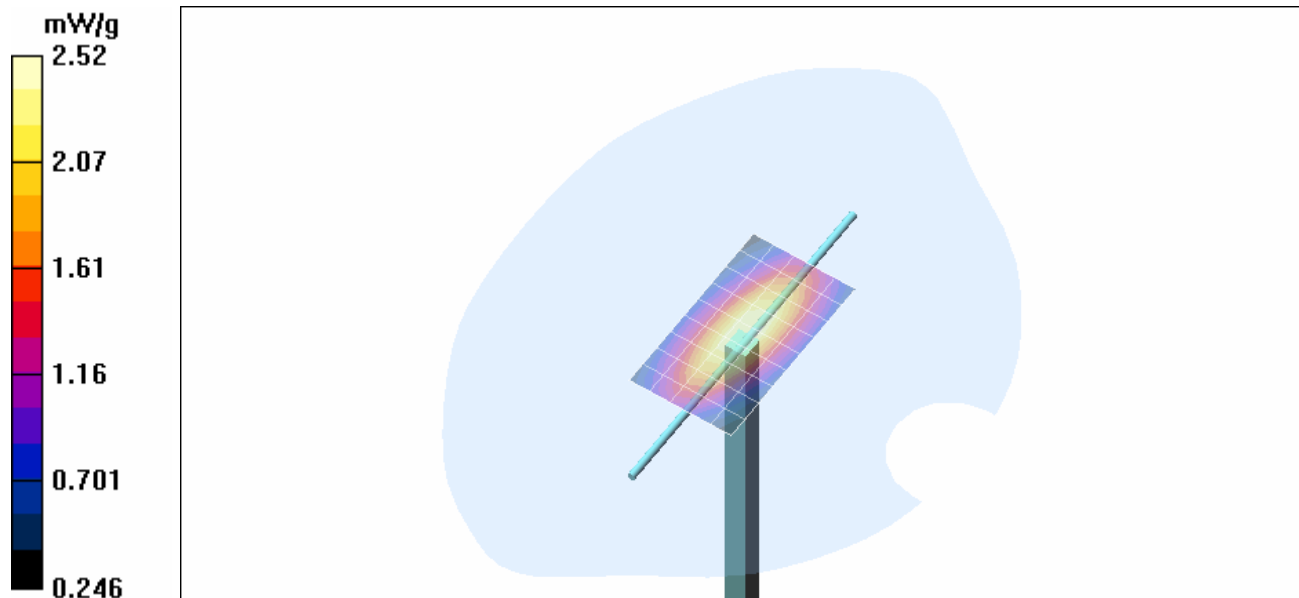
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 53.5 V/m; Power Drift = 0.023 dB

Peak SAR (extrapolated) = 3.30 W/kg



**SAR(1 g) = 2.33 mW/g; SAR(10 g) = 1.54 mW/g**

Maximum value of SAR (measured) = 2.52 mW/g

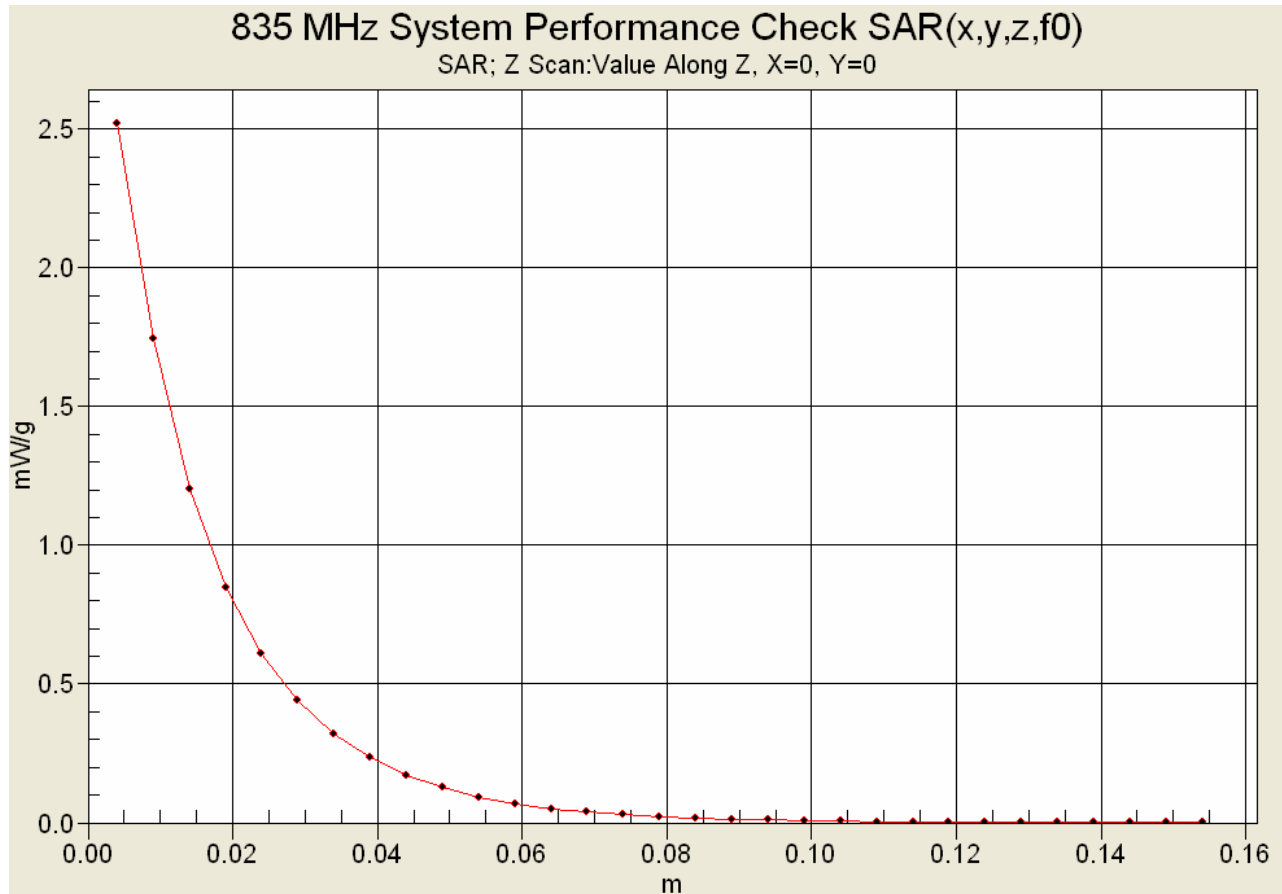



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				





	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

## Z-Axis Scan



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

Date Tested: 05/10/2010

## System Performance Check - 1900 MHz Dipole - Body

**DUT: Dipole 1900 MHz; Type: D1900V2; Serial: 5d107; Calibrated: 21/04/2009**

Ambient Temp: 24.1°C; Fluid Temp: 23.2°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 1900 MHz; Duty Cycle: 1:1

Medium: M1900 Medium parameters used:  $f = 1900 \text{ MHz}$ ;  $\sigma = 1.55 \text{ mho/m}$ ;  $\epsilon_r = 51.7$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.47, 6.47, 6.47); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### 1900 MHz System Performance Check

**Area Scan (5x8x1):** Measurement grid:  $dx=15\text{mm}$ ,  $dy=15\text{mm}$

Maximum value of SAR (measured) = 12.8 mW/g

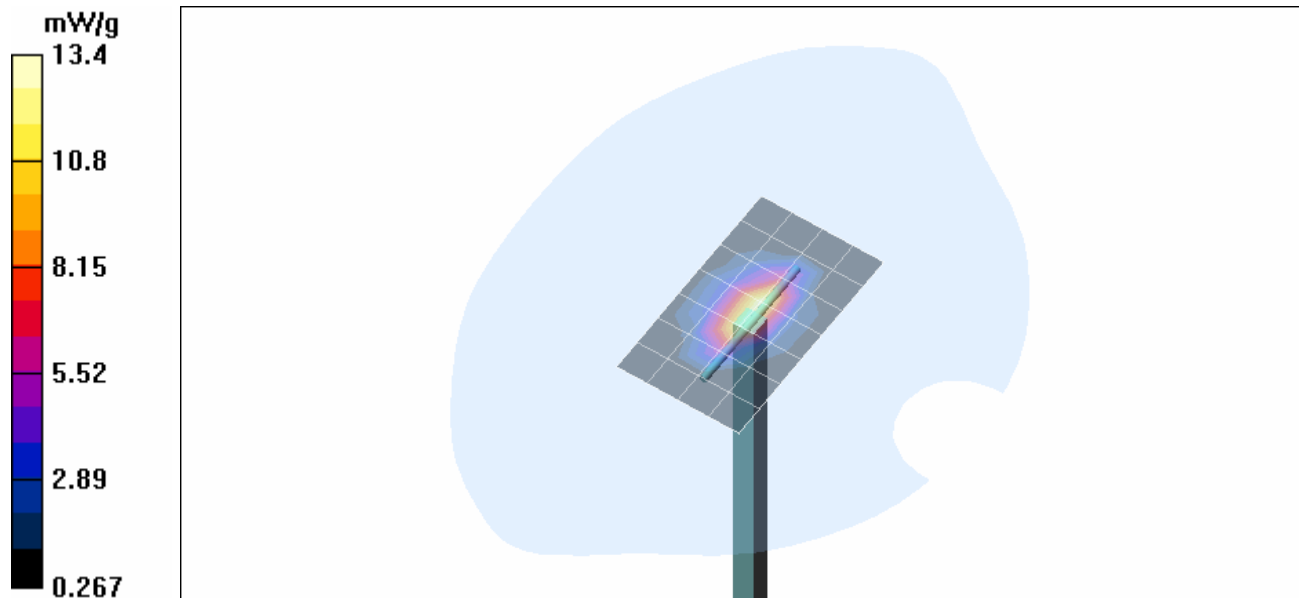
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 93.2 V/m; Power Drift = -0.028 dB



Peak SAR (extrapolated) = 19.9 W/kg

**SAR(1 g) = 10.6 mW/g; SAR(10 g) = 5.48 mW/g**

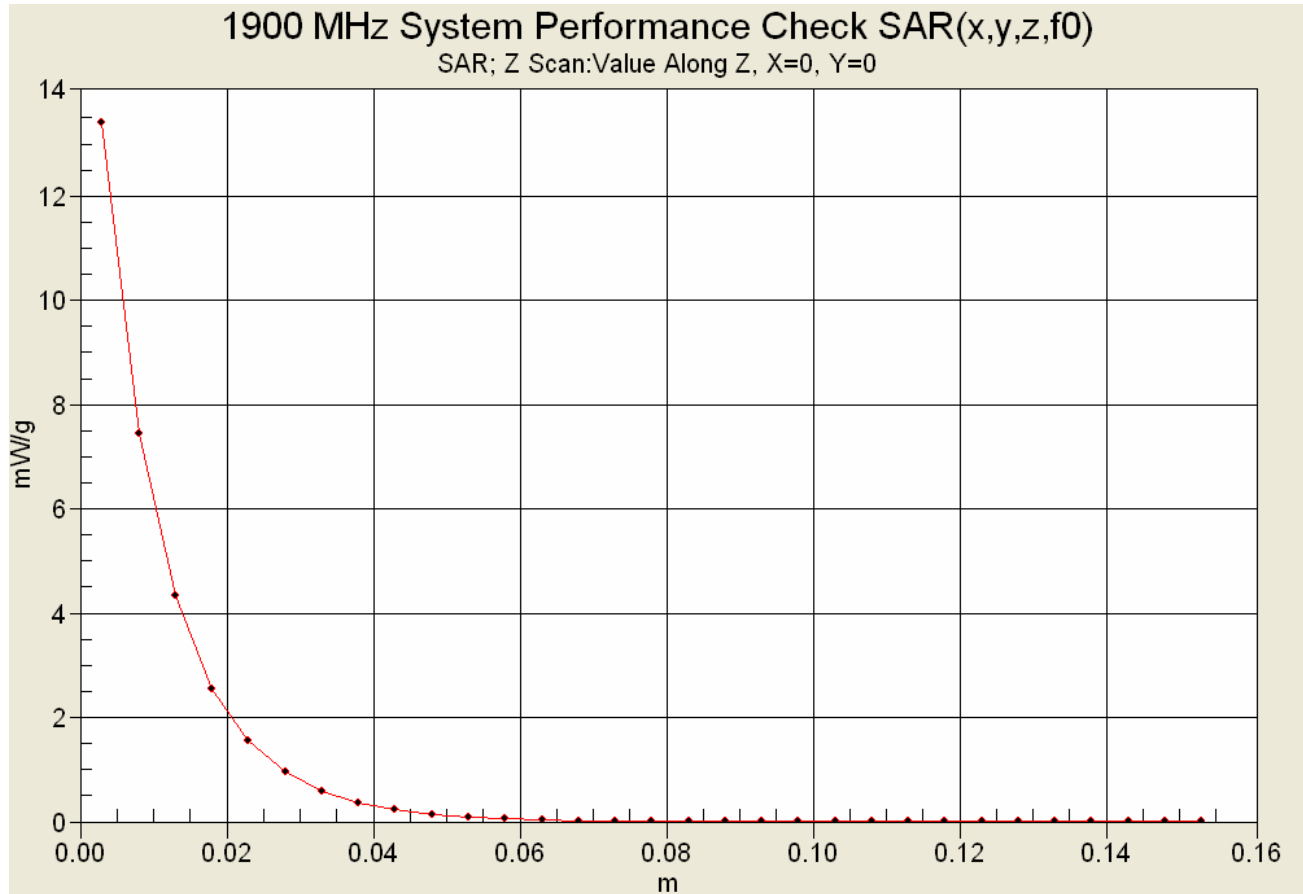
Maximum value of SAR (measured) = 13.4 mW/g






<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## Z-Axis Scan



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 41 of 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

Date Tested: 05/07/2010

## System Performance Check - 2450 MHz Dipole - Body

**DUT: Dipole 2450 MHz; Type: D2450V2; Serial: 825; Calibrated: 17/04/2009**

Ambient Temp: 25.3°C; Fluid Temp: 23.8°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: CW

Forward Conducted Power: 250 mW

Frequency: 2450 MHz; Duty Cycle: 1:1

Medium: M2450 Medium parameters used:  $f = 2450 \text{ MHz}$ ;  $\sigma = 2.02 \text{ mho/m}$ ;  $\epsilon_r = 51.5$ ;  $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.24, 6.24, 6.24); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: SAM 4.0; Type: Fiberglass; Serial: 1033
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

### 2450 MHz System Performance Check

**Area Scan (6x10x1):** Measurement grid:  $dx=10\text{mm}$ ,  $dy=10\text{mm}$

Maximum value of SAR (measured) = 15.8 mW/g

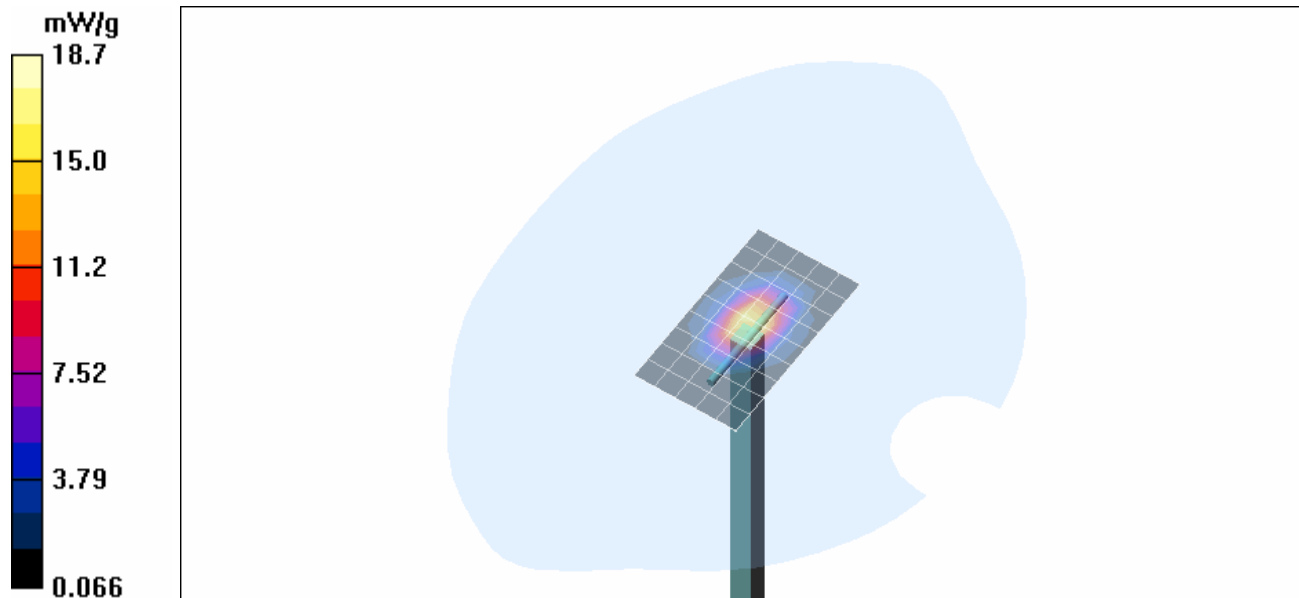
**Zoom Scan (7x7x7)/Cube 0:** Measurement grid:  $dx=5\text{mm}$ ,  $dy=5\text{mm}$ ,  $dz=5\text{mm}$


Reference Value = 96.5 V/m; Power Drift = -0.054 dB



Peak SAR (extrapolated) = 31.3 W/kg

**SAR(1 g) = 14 mW/g; SAR(10 g) = 6.13 mW/g**

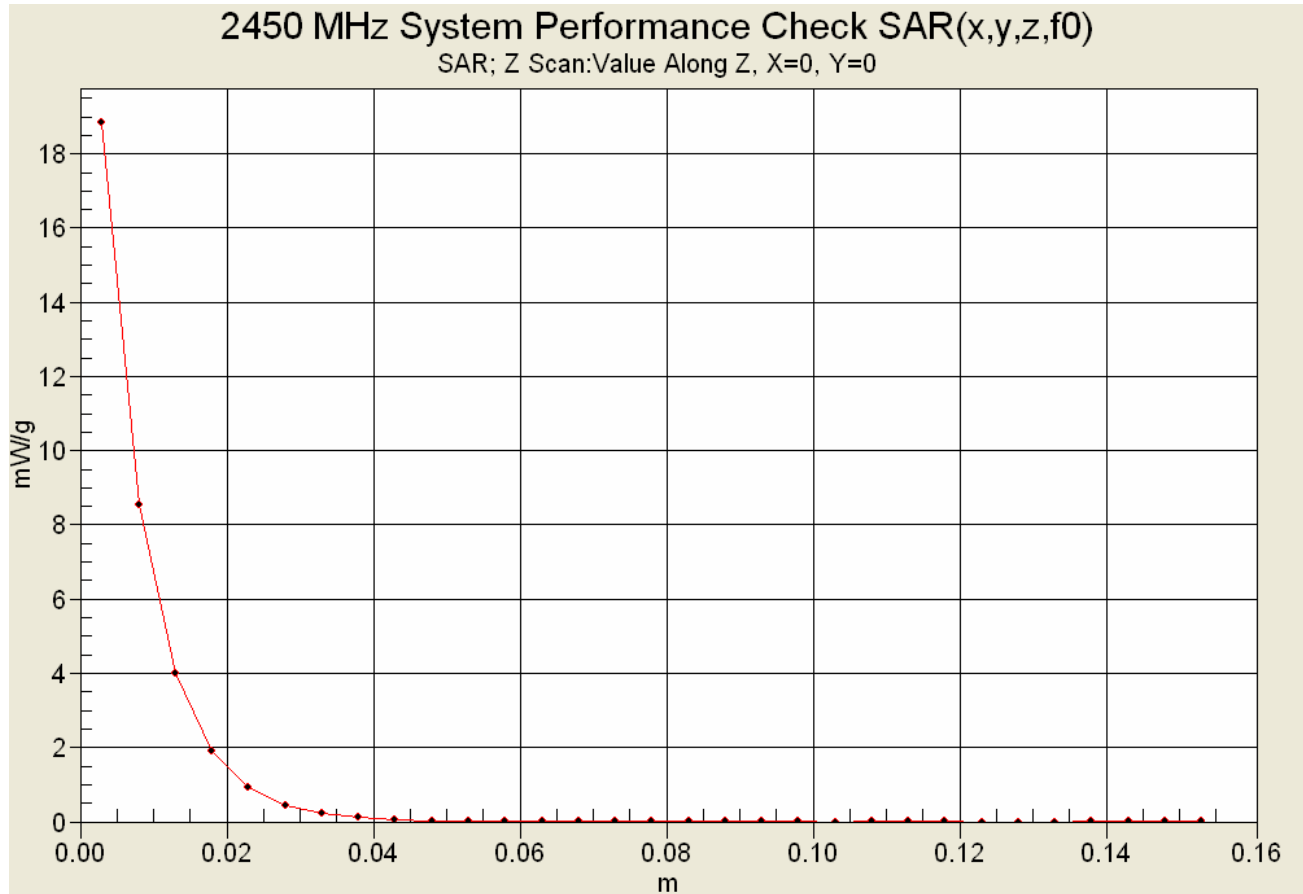
Maximum value of SAR (measured) = 18.7 mW/g






<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

## Z-Axis Scan






<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Lab Certificate No. 2470.01

## APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>	<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 44 of 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				


## 835 MHz System Performance Check & DUT Evaluation (Body)

\*\*\*\*\*



Celltech Labs Inc.  
Test Result for UIM Dielectric Parameter  
12/May/2010  
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	55.00	0.88
0.7450	55.55	0.96	54.93	0.89
0.7550	55.51	0.96	54.84	0.89
0.7650	55.47	0.96	54.71	0.90
0.7750	55.43	0.97	54.62	0.91
0.7850	55.39	0.97	54.54	0.91
0.7950	55.36	0.97	54.56	0.93
0.8050	55.32	0.97	54.12	0.94
0.8150	55.28	0.97	54.32	0.95
0.8250	55.24	0.97	54.10	0.96
0.8350	55.20	0.97	54.09	0.97
0.8450	55.17	0.98	53.97	0.98
0.8550	55.14	0.99	54.06	0.99
0.8650	55.11	1.01	53.85	0.99
0.8750	55.08	1.02	54.00	1.00
0.8850	55.05	1.03	53.79	1.01
0.8950	55.02	1.04	53.80	1.01
0.9050	55.00	1.05	53.84	1.02
0.9150	55.00	1.06	53.75	1.03
0.9250	54.98	1.06	53.52	1.04
0.9350	54.96	1.07	53.59	1.05

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 45 of 64



	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				


## 1900 MHz System Performance Check & DUT Evaluation (Body)



\*\*\*\*\*

Celltech Labs Inc.  
Test Result for UIM Dielectric Parameter  
10/May/2010  
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
1.8000	53.30	1.52	51.92	1.46
1.8100	53.30	1.52	51.44	1.46
1.8200	53.30	1.52	51.84	1.47
1.8300	53.30	1.52	51.76	1.48
1.8400	53.30	1.52	51.77	1.50
1.8500	53.30	1.52	51.69	1.49
1.8600	53.30	1.52	51.73	1.52
1.8700	53.30	1.52	51.68	1.54
1.8800	53.30	1.52	51.71	1.53
1.8900	53.30	1.52	51.62	1.53
1.9000	53.30	1.52	51.70	1.55
1.9100	53.30	1.52	51.65	1.57
1.9200	53.30	1.52	51.65	1.57
1.9300	53.30	1.52	51.46	1.60
1.9400	53.30	1.52	51.62	1.61
1.9500	53.30	1.52	51.58	1.62
1.9600	53.30	1.52	51.59	1.64
1.9700	53.30	1.52	51.50	1.64
1.9800	53.30	1.52	51.48	1.65
1.9900	53.30	1.52	51.35	1.67
2.0000	53.30	1.52	51.38	1.69

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 46 of 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				


## 2450 MHz System Performance Check & DUT Evaluation (Body)



\*\*\*\*\*

Celltech Labs Inc.  
Test Result for UIM Dielectric Parameter  
07/May/2010  
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
2.3500	52.83	1.85	51.51	1.88
2.3600	52.82	1.86	51.53	1.90
2.3700	52.81	1.87	51.59	1.89
2.3800	52.79	1.88	51.59	1.91
2.3900	52.78	1.89	51.52	1.97
2.4000	52.77	1.90	51.51	1.96
2.4100	52.75	1.91	51.50	1.97
2.4200	52.74	1.92	51.59	1.97
2.4300	52.73	1.93	51.39	1.97
2.4400	52.71	1.94	51.60	2.00
2.4500	52.70	1.95	51.50	2.02
2.4600	52.69	1.96	51.39	2.03
2.4700	52.67	1.98	51.21	2.03
2.4800	52.66	1.99	51.39	2.04
2.4900	52.65	2.01	51.31	2.05
2.5000	52.64	2.02	51.19	2.07
2.5100	52.62	2.04	51.37	2.10
2.5200	52.61	2.05	51.20	2.10
2.5300	52.60	2.06	51.13	2.13
2.5400	52.59	2.08	51.08	2.12
2.5500	52.57	2.09	51.13	2.18

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 47 of 64

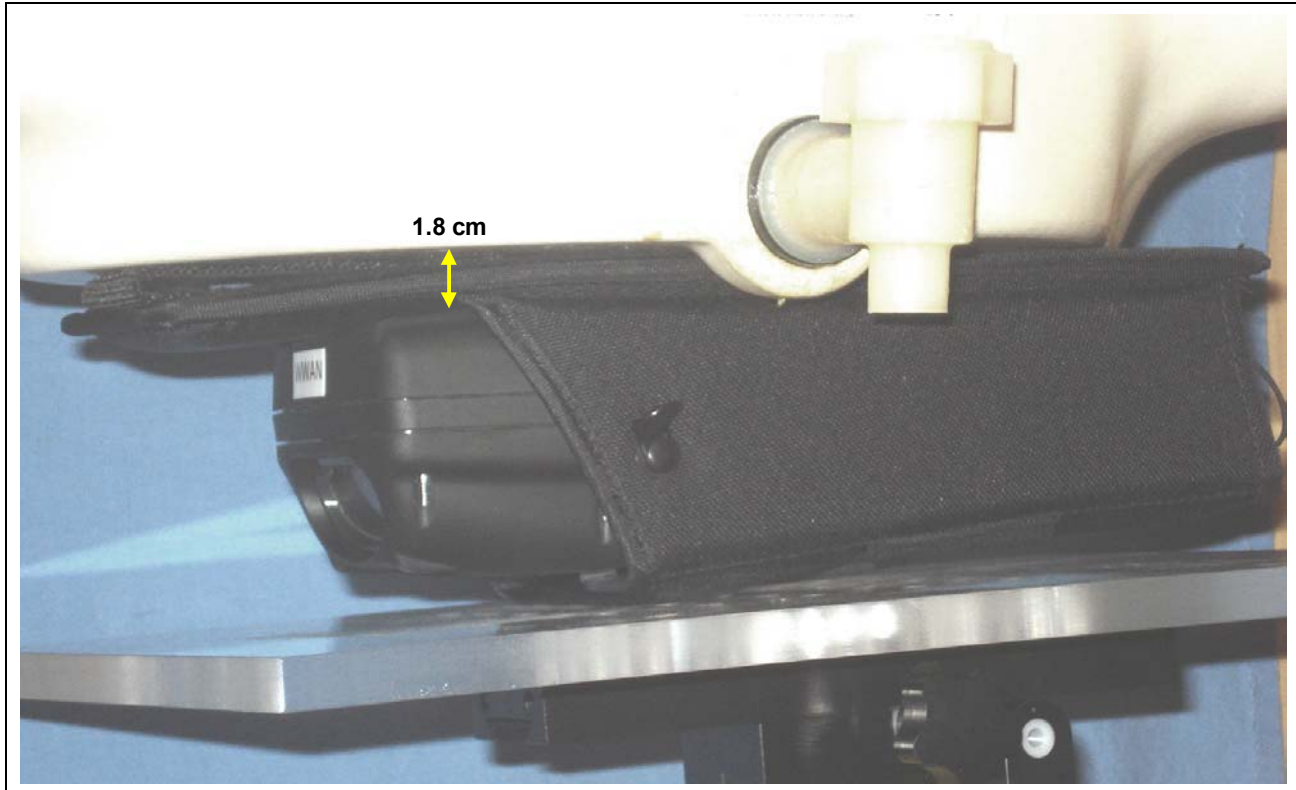
	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	


## APPENDIX D - SAR TEST SETUP & DUT PHOTOGRAPHS



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>	<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 48 of 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	
Test Lab Certificate No. 2470.01				

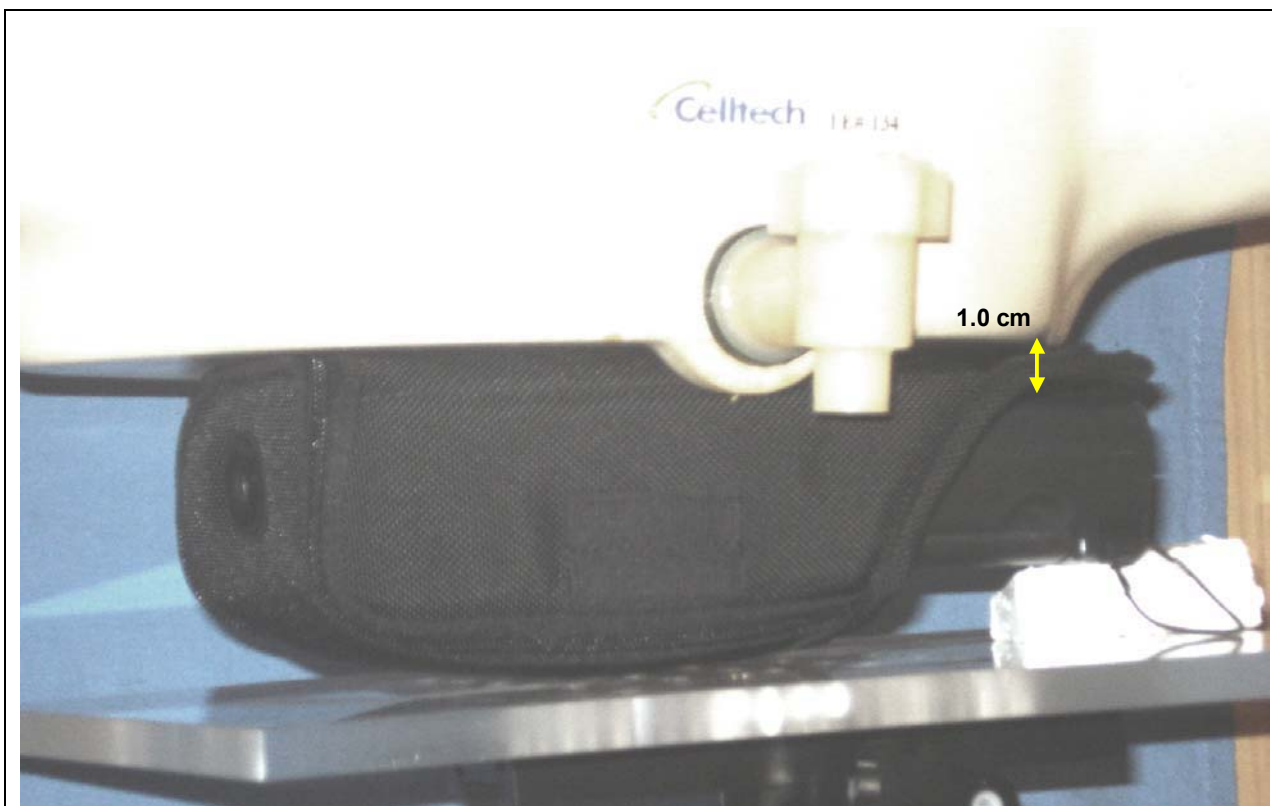
**BODY SAR TEST SETUP PHOTOGRAPHS**  
**DUT with FC3422HOLSTER Body-worn Accessory**  
**Keypad Side of DUT Facing Planar Section of SAM Phantom**  
**1.8 cm holster accessory thickness between DUT and Phantom**







<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>		
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 49 of 64

 Testing and Engineering Services Ltd.	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

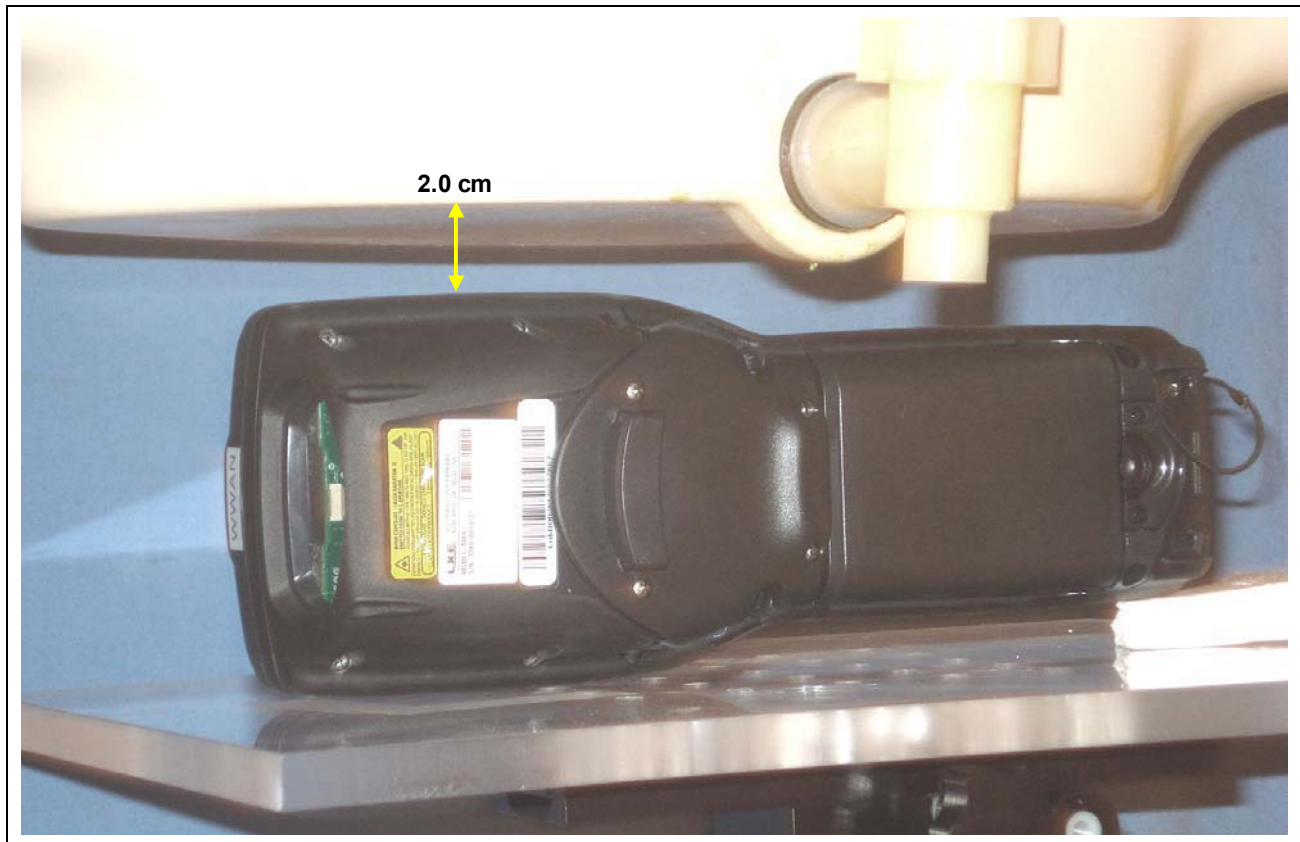
**BODY SAR TEST SETUP PHOTOGRAPHS**  
**DUT with MX9420HOLSTER Body-worn Accessory**  
**Keypad Side of DUT Facing Planar Section of SAM Phantom**  
**1.0 cm holster accessory thickness between DUT and Phantom**




<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>		
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 50 of 64



	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	  Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

**BODY SAR TEST SETUP PHOTOGRAPHS**  
**Left Side of DUT Facing Planar Section of SAM Phantom**  
**2.0 cm air-gap spacing between Left Side of DUT and Phantom**



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 51 of 64




	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	




## BODY SAR TEST SETUP PHOTOGRAPHS

### Right Side of DUT Touching Planar Section of SAM Phantom



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 52 of 64






	Dates of Evaluation May 07, 10, 12, 2010	Test Report Serial No. 041310KDZ-T1014-S24G	Test Report Revision No. Rev. 1.1 (2nd Release)	 
	Test Report Issue Date June 08, 2010	Description of Test(s) Specific Absorption Rate	RF Exposure Category Gen. Pop. / Uncontrolled	

Test Lab Certificate No. 2470.01

## DUT PHOTOGRAPHS

		
Front Side of DUT	Back Side of DUT	Back Side of DUT (battery removed)

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

	Dates of Evaluation May 07, 10, 12, 2010	Test Report Serial No. 041310KDZ-T1014-S24G	Test Report Revision No. Rev. 1.1 (2nd Release)	
	Test Report Issue Date June 08, 2010	Description of Test(s) Specific Absorption Rate	RF Exposure Category Gen. Pop. / Uncontrolled	

Test Lab Certificate No. 2470.01

## DUT PHOTOGRAPHS



Right Side Keypad Edge of DUT




Left Side Keypad Edge of DUT





Left Side Keypad Edge of DUT



Right Side Keypad Edge of DUT

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
2010 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 54 of 64

	Dates of Evaluation May 07, 10, 12, 2010	Test Report Serial No. 041310KDZ-T1014-S24G	Test Report Revision No. Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	Test Report Issue Date June 08, 2010	Description of Test(s) Specific Absorption Rate	RF Exposure Category Gen. Pop. / Uncontrolled	

## DUT PHOTOGRAPHS



Bottom end of DUT




Top end of DUT





Li-ion Battery P/N: 161888-0001



Li-ion Battery P/N: 161888-0001

Applicant:	LXE Inc.	FCC ID:	KDZLXEMX9GSM2G (C2PC)	IC:	1995B-MX9GSM2G (C2PC)	
Model(s):	MX9, FC300	DUT:	Hand-held PC w/ GPRS/EDGE & Bluetooth		Add 802.11bg WLAN Co-Tx	
2010 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 55 of 64




	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	



## DUT PHOTOGRAPHS



Front Side of FC3422HOLSTER accessory with DUT

Back Side of FC3422HOLSTER accessory

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 56 of 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## DUT PHOTOGRAPHS



Front Side of FC3422HOLSTER accessory




Bottom end of FC3422HOLSTER accessory with DUT






Top end of FC3422HOLSTER accessory with DUT



Inside view of FC3422HOLSTER accessory


<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 57 of 64





	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	  Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## DUT PHOTOGRAPHS



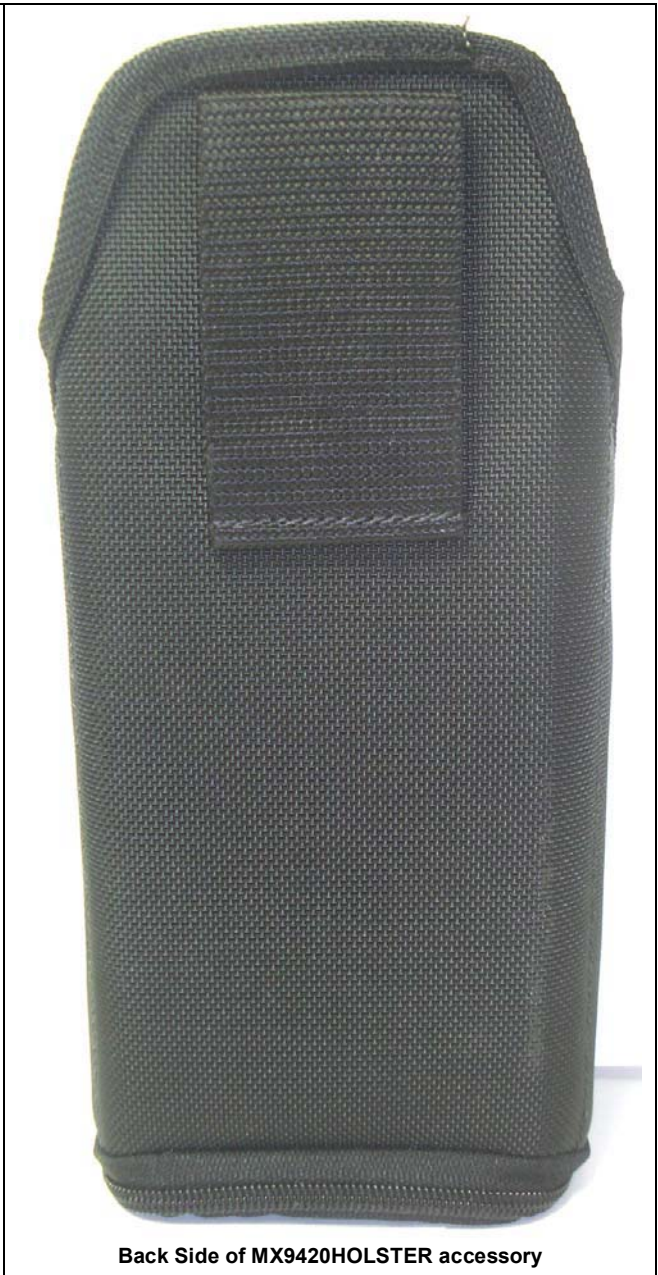
<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	


## DUT PHOTOGRAPHS






Front Side of MX9420HOLSTER accessory with DUT



Back Side of MX9420HOLSTER accessory

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 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 59 of 64



	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	  Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## DUT PHOTOGRAPHS



Front Side of MX9420HOLSTER accessory




Bottom end of MX9420HOLSTER accessory with DUT





Top end of MX9420HOLSTER accessory with DUT




Inside view of MX9420HOLSTER accessory



<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>		<b>Add 802.11bg WLAN Co-Tx</b>	
2010 Celltech Labs Inc.		This document is not to be reproduced in whole or in part without the prior written permission of Celltech Labs Inc.				

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	 Test Lab Certificate No. 2470.01
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

## DUT PHOTOGRAPHS




<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>	<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 61 of 64

	<u>Dates of Evaluation</u> May 07, 10, 12, 2010	<u>Test Report Serial No.</u> 041310KDZ-T1014-S24G	<u>Test Report Revision No.</u> Rev. 1.1 (2nd Release)	
	<u>Test Report Issue Date</u> June 08, 2010	<u>Description of Test(s)</u> Specific Absorption Rate	<u>RF Exposure Category</u> Gen. Pop. / Uncontrolled	

Test Lab Certificate No. 2470.01

## APPENDIX G - SAM PHANTOM CERTIFICATE OF CONFORMITY

<b>Applicant:</b>	<b>LXE Inc.</b>	<b>FCC ID:</b>	<b>KDZLXEMX9GSM2G (C2PC)</b>	<b>IC:</b>	<b>1995B-MX9GSM2G (C2PC)</b>	
<b>Model(s):</b>	<b>MX9, FC300</b>	<b>DUT:</b>	<b>Hand-held PC w/ GPRS/EDGE &amp; Bluetooth</b>	<b>Add 802.11bg WLAN Co-Tx</b>		
2010 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 64 of 64

# 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 Hauptstr. 69 CH-8559 Fruthwilen 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, Samples
Material thickness	Compliant with the requirements according to the standards	2mm +/- 0.2mm in specific areas	First article, Samples
Material parameters	Dielectric parameters for required frequencies	200 MHz – 3 GHz Relative permittivity < 5 Loss tangent < 0.05.	Material sample 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, 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].

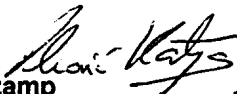
### Conformity

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