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|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

DECLARATION OF COMPLIANCE - SAR RF EXPOSURE EVALUATION (FCC/IC)

| | | | | | | | |
|------------------------------------|-------------------|---|----------------|---|--|--|------------|
| Test Lab Information | Name | CELLTECH LABS INC. | Address | 21-364 Lougheed Road, Kelowna B.C. V1X 7R8 Canada | | | |
| Test Lab Accreditation | A2LA | ISO/IEC 17025:2005 (A2LA Test Lab Certificate No. 2470.01) | | | | | |
| Applicant Information | Name | XPLORE TECHNOLOGIES CORP. | Address | 14000 Summit Drive, Suite 900, Austin, Texas, 78728 USA | | | |
| Standard(s) Applied | FCC | 47 CFR §2.1093 | IC | Health Canada Safety Code 6 | | | |
| Procedure(s) Applied | FCC | OET Bulletin 65, Supplement C (01-01) | | KDB 447498 D01v04 | FCC KDB 941225 D01v02 | | |
| | IC | RSS-102 Issue 4 | IEEE | 1528-2003 | IEC | 62209-1:2005; 62209-2:2010 | |
| Device Classification(s) | FCC | PCS Licensed Transmitter (PCB) | | | 47 CFR §24 Subpart E | | |
| | IC | Cellular Telephones Employing New Technologies Operating in the 800 Band 2 GHz Personal Communications Services | | | RSS-132 Issue 2 RSS-133 Issue 5 | | |
| Application Type | FCC/IC | Class II Permissive Change - Add Xplore iX104C5 Tablet PC & Non Pump-Up Antenna (Limited Modular Approval) | | | | | |
| Device-Under-Test Sample | Rcpt Date | September 21, 2010 | | Test Dates | October 15 & 26, 2010 | | |
| Device Identifier(s) | FCC ID: | Q2GGOBI2K-XPL | | IC: | 4596A-GOBI2KXPL | | |
| Device Under Test (DUT) | WWAN | GPRS/EDGE/CDMA/WCDMA/HSPA Module | | Model | GOBI2000 | | |
| | Manuf. | Qualcomm Inc. | | Serial No. | IMEI 358504020003108 | | |
| DUT Host Configuration(s) | Host PC | Rugged Tablet PC | | Model | iX104C5 | | |
| | Manuf. | Wistron Corporation | | Serial No. | XPL 01 | | |
| Co-located Transmitter 1 | WLAN | 802.11a/b/g/n WLAN Mini-PCI Card | | Model | 622ANHMW | | |
| | FCC ID: | Q2GI6200-XPL | | IC: | 4596A-I6200XPL | | |
| | Manuf. | Intel Corporation | | Co-Transmit | Does not support co-transmission with WWAN | | |
| Co-located Transmitter 2 | Bluetooth | Class 2 | | Model | BCM92070MD_REF | | |
| | FCC ID: | QDS-BRCM1043 | | IC: | 4324A-BRCM1043 | | |
| | Manuf. | Broadcom Corporation | | Co-Transmit | Does support co-transmission with WWAN | | |
| | Tx Freq. | 2402 - 2480 MHz | | Cond. Pwr. | 4.27 dBm (Original TCB Cert.) = P(mW)<60/f | | |
| | Ant. Dist. | 179 mm (Bluetooth-to-WWAN) | | | | | |
| User LCD Orientation(s) | Host PC | 0 Degrees Landscape | | 90 Degrees Portrait | | | |
| Device Position(s) Tested | Host PC | Bottom Side Touch | | | | | |
| Transmit Frequency Range(s) | Cell Band | 824.2-848.8 MHz (GPRS/EDGE) | | 826.4-846.6 MHz (WCDMA/HSPA) | | 824.70-848.31 MHz (CDMA/EV-DO) | |
| | PCS Band | 1850.2-1909.8 MHz (GPRS/EDGE) | | 1852.4-1907.5 MHz (WCDMA/HSPA) | | 1851.25-1908.75 MHz (CDMA/EV-DO) | |
| Max. Duty Cycle(s) Tested | GPRS | 25% (2 Uplink Slots) Class 10 | | WCDMA | 100% | EV-DO | 100% |
| | | | | CDMA | 100% | | |
| Antenna Type(s) Tested | WWAN | SkyCross "Non Pump-Up" Standard Antenna | | P/N: 25.90A0P.001 | Gain Specification: -5 dBi | | |
| Antenna-to-User Distance(s) | WWAN | WWAN to Bottom Side = 1.6 cm | | | WWAN to Right Side Edge (90° Portrait) = 18.8 cm | | |
| Power Source(s) Tested | Host PC | Lithium-ion Battery | 7.4V | 10000mAh | | Model: 909T2021F | |
| Max. SAR Level(s) Evaluated | BODY (LAP) | 0.093 W/kg | 1g average | 850 Band | FCC/IC Spatial Peak SAR Limit | 1.6 W/kg | 1g average |
| | | 0.320 W/kg | 1g average | 1900 Band | | Gen. Pop. / Uncontrolled Exposure | |


Celltech Labs Inc. declares under its sole responsibility that this wireless portable device is compliant with the Specific Absorption Rate (SAR) RF exposure requirements specified in FCC 47 CFR §2.1093 and Health Canada's Safety Code 6 for the General Population / Uncontrolled Exposure environment. The device was tested in accordance with the measurement standards and procedures specified in FCC OET Bulletin 65, Supplement C (Edition 01-01), Industry Canada RSS-102 Issue 4, IEEE 1528-2003, International Standard IEC 62209-1 (2005) and International Standard IEC 62209-2 (Edition 1.0 2010-03). All measurements were performed in accordance with the SAR system manufacturer recommendations.



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

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



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| | | | | |
|--------------------------------|---|----------------------|--------------------|---------------------------|
| Test Report Approved By |  | Sean Johnston | Lab Manager | Celltech Labs Inc. |
|--------------------------------|---|----------------------|--------------------|---------------------------|

| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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REVISION HISTORY

| REVISION NO. | DESCRIPTION | IMPLEMENTED BY | RELEASE DATE |
|--------------|-----------------|----------------|-------------------|
| 1.0 | Initial Release | Jon Hughes | December 19, 2010 |

TEST REPORT SIGN-OFF

| DEVICE TESTED BY | REPORT PREPARED BY | QA REVIEW BY | REPORT APPROVED BY |
|------------------|--------------------|--------------|--------------------|
| Scott Kulifaj | Scott Kulifaj | Jon Hughes | Sean Johnston |

| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
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| | December 19, 2010 | Specific Absorption Rate | Gen. Pop. / Uncontrolled | |

1.0 INTRODUCTION

This measurement report demonstrates that the Xplore Technologies Corporation Model: iX104C5 Rugged Tablet PC, incorporating the GOBI2000 WWAN Mini-PCI Express Card FCC ID: Q2GGGOBI2K-XPL (with Non Pump-Up Antenna), complies with the SAR (Specific Absorption Rate) RF exposure requirements of 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 Standard 1528-2003 (see reference [5]), IEC International Standard 62209-1 (see reference [6]) and IEC International Standard 62209-2 (see reference [7]) were employed. A description of the product, operating configuration, detailed summary of the test results, methodology and procedures used in the evaluation, equipment used, and the various provisions of the rules are included within this test report.

2.0 SAR MEASUREMENT SYSTEM


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

The following procedures are recommended for measurements at 150 MHz - 3 GHz to minimize probe calibration and tissue dielectric parameter discrepancies. In general, SAR measurements below 300 MHz should be within ± 50 MHz of the probe calibration frequency. At 300 MHz to 3 GHz, measurements should be within ± 100 MHz of the probe calibration frequency. Measurements exceeding 50% of these intervals, ± 25 MHz < 300 MHz and ± 50 MHz ≥ 300 MHz, require additional steps (per FCC KDB 450824 D01 v01r01, SAR Probe Calibration and System Verification Considerations for Measurements at 150 MHz - 3 GHz - see reference [10]).

| Probe Calibration Freq. | Device Measurement Freq. | Frequency Interval | ± 50 MHz ≥ 300 MHz |
|-------------------------|--------------------------|--------------------|-----------------------------|
| 835 MHz | 836.6 MHz | 1.6 MHz | < 50 MHz |
| | 836.4 MHz | 1.4 MHz | < 50 MHz |
| | 836.52 MHz | 1.52 MHz | < 50 MHz |
| 1900 MHz | 1880.0 MHz | 20 MHz | < 50 MHz |

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

| | | | | | | |
|-------------------------|--|----------------|----------------|------------|-----------------|---|
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| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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4.0 OUTPUT POWER MEASUREMENTS

GPRS Mode


Procedure used to establish test signal



The following setting was used to configure the Agilent 8960 Series E5515C wireless communications test set.

Service Selection > Test Mode A - Auto Slot Config. > off
 Main Service > Packet Data
 Network Support > GSM+GPRS
 Slot Config > 33 dBm (GSM850) & 30 dBm (GSM1900)
 BAP: Burst Average Power
 Pavg: Average power over all time slots

| RF CONDUCTED OUTPUT POWER MEASUREMENT RESULTS – GPRS Mode | | | | | | | | | |
|---|---------|-------------|---------------------|-------|-------------|---------|-------------|---------------------|-------|
| 2 Uplink Slots (Multislot Class 10) | | | | | | | | | |
| Mode / Band | Channel | Freq. (MHz) | Burst-Average Power | | Mode / Band | Channel | Freq. (MHz) | Burst-Average Power | |
| | | | dBm | Watts | | | | dBm | Watts |
| GPRS 850 | 128 | 824.2 | 32.6 | 1.82 | GPRS 1900 | 512 | 1850.2 | 29.9 | 0.977 |
| | 190 | 836.6 | 32.6 | 1.74 | | 661 | 1880.0 | 29.9 | 0.977 |
| | 251 | 848.8 | 32.5 | 1.78 | | 810 | 1909.8 | 29.8 | 0.955 |

Note: The EDGE mode conducted power levels specified by Sierra Wireless Inc. for the Gobi2000 WWAN module are ~ 5 dB lower than the conducted output power levels specified for GPRS mode and therefore EDGE mode was not evaluated.

| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
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| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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OUTPUT POWER MEASUREMENTS (Cont.)

WCDMA Mode

Procedure used to establish test signal

This procedure assumes the Agilent 8960 Series E5515C wireless communications test set has the following applications installed and with valid license.

Application: WCDMA Mobile Test

Rev, License: A.07.13, L

Call Setup > Shift & Preset

Cell Parameters: PS Domain Information > Present
ATT (IMSI Attach) Flag State > Set

Security Parameter - System Operations > None

Channel Type: RMC - 12.2k, 64k, 144k, 384k
AMC - 12.2k UL / 64 DL AM RMC,
12.2k UL / 144 DL AM RMC,
12.2k UL / 384 DL AM RMC

Paging Service: RB Test Mode

Channel Parameters (UARFCN):

DL Channel: PCS: 9662 / 9800 / 9938
Cell: 4357 / 4407 / 4458


UL Channel: PCS: 9262 / 9400 / 9538
Cell: 4132 / 4182 / 4233



DL DTCH Data: All Ones
RLC Reestablish: Off
Call Limit State: Off
Call Drop Timer: Off
SRB Config: 13.6k DCCH
UE Target Power: 25 dBm
UL CL Pwr Ctrl Mode: All Up Bits

RF CONDUCTED OUTPUT POWER MEASUREMENT RESULTS – WCDMA Mode

| Channel Type: 12.2k RMC | | | | | | | | | |
|-------------------------|---------|-------------|---------------|-------|-------------|---------|-------------|---------------|-------|
| Mode / Band | Channel | Freq. (MHz) | Channel Power | | Mode / Band | Channel | Freq. (MHz) | Channel Power | |
| | | | dBm | Watts | | | | dBm | Watts |
| WCDMA 850 | 4132 | 826.4 | 24.0 | 0.251 | WCDMA 1900 | 9262 | 1852.4 | 23.9 | 0.254 |
| | 4180 | 836.4 | 24.0 | 0.254 | | 9400 | 1880.0 | 24.0 | 0.251 |
| | 4233 | 846.6 | 23.8 | 0.254 | | 9538 | 1907.6 | 23.7 | 0.234 |

Note: The conducted output power levels for HSDPA/HSUPA modes specified by Sierra Wireless Inc. for the Gobi2000 WWAN module are lower than the conducted output power levels specified for WCDMA mode; therefore HSDPA/HSUPA modes were not evaluated.

| | | | | | | |
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OUTPUT POWER MEASUREMENTS (Cont.)

1xEv-Do Rel. 0 Mode

Procedure used to establish test signal

This procedure assumes the Agilent 8960 Series 10 E5515C Wireless Communications Test Set contains the following applications installed and with valid license.

Application

Rev. License

1xEv-Do Terminal Test

A.07.13, L

FTAP

- Call Setup → Shift & Preset
- Protocol Rev → 0 (1xEv-Do)
- Application Config → Enhanced Test Application Protocol → FTAP
- FTAP Rate → 307.2 kbps (2 Slot, QPSK)
- Access Network Info → Cell Parameters → Sector ID → 00840AC0 → Subnet Mask → 0
- Generator Info → Termination Parameters → Max Forward Packet Duration → 16 Slots
- Rvs Power Ctrl → All Bits Up (to get the maximum power)


RTAP



- Call Setup → Shift & Preset
- Protocol Rev → 0 (1xEv-Do)
- Application Config → Enhanced Test Application Protocol → RTAP
- RTAP Rate → 153.6 kbps
- Access Network Info → Cell Parameters → Sector ID → 00840AC0 → Subnet Mask → 0
- Generator Info → Termination Parameters → Max Forward Packet Duration → 16 Slots
- Rvs Power Ctrl → All Bits Up (to get the maximum power)

RF CONDUCTED OUTPUT POWER MEASUREMENT RESULTS - 1xEv-Do Rev. 0 Mode

FTAP Rate = 307 kbps (2 slot) / RTAP Rate = 76.8 kbps

| Mode / Band | Channel | Freq. (MHz) | Channel Power | | Mode / Band | Channel | Freq. (MHz) | Channel Power | |
|----------------------------|---------|-------------|---------------|-------|-----------------------------|---------|-------------|---------------|-------|
| | | | dBm | Watts | | | | dBm | Watts |
| 1xEv-Do Rel. 0 (850) | 1013 | 824.70 | 24.5 | 0.282 | 1xEv-Do Rel. 0 (1900) | 25 | 1851.25 | 24.3 | 0.269 |
| | 384 | 836.52 | 24.5 | 0.282 | | 600 | 1880.00 | 24.5 | 0.282 |
| | 777 | 848.31 | 24.3 | 0.269 | | 1175 | 1908.75 | 24.4 | 0.269 |

| | | | | | | |
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OUTPUT POWER MEASUREMENTS (Cont.)

1xEv-Do Rev. A Mode

Procedure used to establish test signal

This procedure assumes the Agilent 8960 Series 10 E5515C Wireless Communications Test Set contains the following applications installed and with valid license.

Application

1xEv-Do Terminal Test

Rev. License

A.07.13, L

FETAP

- Call Setup → Shift & Preset
- Protocol Rev → A (1xEv-Do-A)
- Application Config → Enhanced Test Application Protocol → FETAP
- FTAP Rate → 307.2 kbps (2 Slot, QPSK)
- Protocol Subtype Config → Release A Physical Layer Subtype → Subtype 0
- Access Network Info → Cell Parameters → Sector ID → 00840AC0 → Subnet Mask → 0
- Generator Info → Termination Parameters > Max Forward Packet Duration → 16 Slots
- Rvs Power Ctrl → All Bits Up (to get the maximum power)



RETAP

- Call Setup → Shift & Preset
- Protocol Rev → A (1xEv-Do-A)
- Application Config → Enhanced Test Application Protocol → RETAP
- F-Traffic Format → 4 (1024, 2,128) Canonical (307.2k, QPSK)
- R-Data Pkt Size → 4096
- Protocol Subtype Config → Release A Physical Layer Subtype → Subtype 2
→ PL Subtype 2 Access Channel MAC Subtype → Default (Subtype 0)
- Access Network Info → Cell Parameters → Sector ID → 00840AC0 → Subnet Mask → 0
- Generator Info → Termination Parameters → Max Forward Packet Duration > 16 Slots
→ ACK R-Data After > Subpacket 0 (All ACK)
- Rvs Power Ctrl → All Bits Up (to get the maximum power)

RF CONDUCTED OUTPUT POWER MEASUREMENT RESULTS - 1xEv-Do Rev. A Mode

FETAP Rate = 307 kbps (2 slot) / RETAP Rate = 2048 bps

| Mode / Band | Channel | Freq. (MHz) | Channel Power | | Mode / Band | Channel | Freq. (MHz) | Channel Power | |
|----------------------|---------|-------------|---------------|-------|-----------------------|---------|-------------|---------------|-------|
| | | | dBm | Watts | | | | dBm | Watts |
| 1xEv-Do Rev. A (850) | 1013 | 824.70 | 24.3 | 0.269 | 1xEv-Do Rev. A (1900) | 25 | 1851.25 | 24.3 | 0.269 |
| | 384 | 836.52 | 24.4 | 0.275 | | 600 | 1880.00 | 24.4 | 0.275 |
| | 777 | 848.31 | 24.3 | 0.269 | | 1175 | 1908.75 | 24.2 | 0.263 |

| | | | | |
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OUTPUT POWER MEASUREMENTS (Cont.)

CDMA 1xRTT Mode

Procedure used to establish test signal

This procedure assumes the Agilent 8960 Series 10 E5515C Wireless Communications Test Set contains the following applications installed and with valid license.

Application

CDMA2000 Mobile Test

Rev. License


B.12.12, L



1xRTT

- Call Setup → Shift & Preset
- Protocol Rev → 6 (IS-2000-0)
- Radio Config (RC) → RC3 (Fwd3, Rvs3)
- FCH Service Option (SO) Setup → SO55
- Traffic Data Rate → Full
- Cell info → Cell Parameters → System ID (SID) → 2238 (for Cellular) and 4145 (for PCS)
→ Network ID (NID) → 65535
- Rvs Power Ctrl → All Bits Up (to get the maximum power)

RF CONDUCTED OUTPUT POWER MEASUREMENT RESULTS - 1xRTT Mode

| RC3, SO55 | | | | | | | | | |
|-------------|---------|-------------|---------------|-------|-------------|---------|-------------|---------------|-------|
| Mode / Band | Channel | Freq. (MHz) | Channel Power | | Mode / Band | Channel | Freq. (MHz) | Channel Power | |
| | | | dBm | Watts | | | | dBm | Watts |
| 1xRTT 850 | 1013 | 824.70 | 24.5 | 0.282 | 1xRTT 1900 | 25 | 1851.25 | 24.3 | 0.269 |
| | 384 | 836.52 | 24.5 | 0.282 | | 600 | 1880.00 | 24.5 | 0.282 |
| | 777 | 848.31 | 24.3 | 0.269 | | 1175 | 1908.75 | 24.4 | 0.275 |


| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

5.0 FLUID DIELECTRIC PARAMETERS

| FLUID DIELECTRIC PARAMETERS | | | | | | |
|-----------------------------|--------|--------------------|-----------------|-----------------|------------------------|------------------------|
| Date: 10/26/2010 | | Frequency: 835 MHz | | | Tissue: Body | |
| Freq (GHz) | Test_e | Test_s | 835MHz Target_e | 835MHz Target_s | Deviation Permittivity | Deviation Conductivity |
| 0.735 | 53.95 | 0.91 | 55.2 | 0.97 | -2.26% | -6.19% |
| 0.745 | 53.69 | 0.92 | 55.2 | 0.97 | -2.74% | -5.15% |
| 0.755 | 53.28 | 0.94 | 55.2 | 0.97 | -3.48% | -3.09% |
| 0.765 | 53.20 | 0.95 | 55.2 | 0.97 | -3.62% | -2.06% |
| 0.775 | 53.36 | 0.95 | 55.2 | 0.97 | -3.33% | -2.06% |
| 0.785 | 53.30 | 0.97 | 55.2 | 0.97 | -3.44% | 0.00% |
| 0.795 | 53.07 | 0.97 | 55.2 | 0.97 | -3.86% | 0.00% |
| 0.805 | 53.18 | 0.98 | 55.2 | 0.97 | -3.66% | 1.03% |
| 0.815 | 52.99 | 0.99 | 55.2 | 0.97 | -4.00% | 2.06% |
| 0.825 | 52.81 | 0.98 | 55.2 | 0.97 | -4.33% | 1.03% |
| 0.835 | 52.64 | 0.99 | 55.2 | 0.97 | -4.64% | 2.06% |
| 0.8365* | 52.60 | 0.99 | 55.2 | 0.97 | -4.71% | 2.06% |
| 0.845 | 52.50 | 1.00 | 55.2 | 0.97 | -4.89% | 3.09% |
| 0.855 | 52.51 | 0.99 | 55.2 | 0.97 | -4.87% | 2.06% |
| 0.865 | 52.50 | 1.00 | 55.2 | 0.97 | -4.89% | 3.09% |
| 0.875 | 52.48 | 1.02 | 55.2 | 0.97 | -4.93% | 5.15% |
| 0.885 | 52.44 | 1.02 | 55.2 | 0.97 | -5.00% | 5.15% |
| 0.895 | 51.94 | 1.03 | 55.2 | 0.97 | -5.91% | 6.19% |
| 0.905 | 51.85 | 1.05 | 55.2 | 0.97 | -6.07% | 8.25% |
| 0.915 | 52.00 | 1.06 | 55.2 | 0.97 | -5.80% | 9.28% |
| 0.925 | 51.57 | 1.08 | 55.2 | 0.97 | -6.58% | 11.34% |
| 0.935 | 51.53 | 1.09 | 55.2 | 0.97 | -6.65% | 12.37% |


*Interpolated using DASY4 Software



| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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|--|---|---|---|--|
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| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

FLUID DIELECTRIC PARAMETERS (Cont.)

| FLUID DIELECTRIC PARAMETERS | | | | | | |
|-----------------------------|--------|---------------------|------------------|------------------|------------------------|------------------------|
| Date: 10/15/2010 | | Frequency: 1900 MHz | | | Tissue: Body | |
| Freq (GHz) | Test_e | Test_s | 1900MHz Target_e | 1900MHz Target_s | Deviation Permittivity | Deviation Conductivity |
| 1.80 | 51.73 | 1.39 | 51.95 | 1.38 | 0.43% | -0.72% |
| 1.81 | 51.45 | 1.41 | 52.02 | 1.4 | 1.11% | -0.71% |
| 1.82 | 51.59 | 1.41 | 51.87 | 1.4 | 0.54% | -0.71% |
| 1.83 | 51.61 | 1.42 | 51.64 | 1.4 | 0.06% | -1.41% |
| 1.84 | 51.29 | 1.43 | 51.87 | 1.42 | 1.13% | -0.70% |
| 1.85 | 51.35 | 1.44 | 51.82 | 1.44 | 0.92% | 0.00% |
| 1.86 | 51.32 | 1.44 | 51.78 | 1.45 | 0.90% | 0.69% |
| 1.87 | 51.33 | 1.45 | 51.77 | 1.47 | 0.86% | 1.38% |
| 1.88 | 51.06 | 1.48 | 51.79 | 1.47 | 1.43% | -0.68% |
| 1.89 | 51.32 | 1.49 | 51.79 | 1.48 | 0.92% | -0.67% |
| 1.90 | 51.04 | 1.49 | 51.5 | 1.48 | 0.90% | -0.67% |
| 1.91 | 51.41 | 1.52 | 51.45 | 1.51 | 0.08% | -0.66% |
| 1.92 | 51.11 | 1.51 | 51.74 | 1.51 | 1.23% | 0.00% |
| 1.93 | 51.07 | 1.52 | 51.71 | 1.53 | 1.25% | 0.66% |
| 1.94 | 51.18 | 1.53 | 51.55 | 1.55 | 0.72% | 1.31% |
| 1.95 | 51.00 | 1.56 | 51.77 | 1.54 | 1.51% | -1.28% |
| 1.96 | 51.05 | 1.56 | 51.45 | 1.55 | 0.78% | -0.64% |
| 1.97 | 51.03 | 1.57 | 51.63 | 1.59 | 1.18% | 1.27% |
| 1.98 | 50.92 | 1.57 | 51.58 | 1.6 | 1.30% | 1.91% |
| 1.99 | 50.95 | 1.60 | 51.6 | 1.61 | 1.28% | 0.63% |
| 2.00 | 50.97 | 1.60 | 51.78 | 1.63 | 1.59% | 1.87% |

| | | | | | | |
|-------------------------|--|----------------|----------------------|------------|------------------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

6.0 SAR MEASUREMENT SUMMARY


BODY (LAP-HELD) SAR MEASUREMENT RESULTS



| Test Date | Freq. Band | Test Freq. | Ch. | Test Mode | | Tablet PC Position to Planar Phantom | Tablet PC Distance to Planar Phantom | Start Power (Conducted) | | SAR Drift During Test | Measured SAR | |
|-----------|------------|------------|------|---------------|----------------------|--------------------------------------|--------------------------------------|-------------------------|------|-----------------------|--------------|-------|
| | | | | | | | | dBm | Mode | | W/kg | 1g/Pk |
| Oct 26 | 850 | 836.6 | 190 | GPRS Class 10 | 2 Uplink Slots | Bottom Side | Touch | 32.6 | BAP | -0.034 | 0.093 | 1g |
| | | 836.4 | 4182 | WCDMA Rel99 | 12.2k RMC | Bottom Side | Touch | 24.0 | MAP | -0.064 | 0.055 | 1g |
| | | 836.52 | 384 | EV-DO Rel. 0 | FTAP 2 slot 307 kbps | Bottom Side | Touch | 24.5 | MAP | -0.023 | 0.088 | 1g |
| Oct 15 | 1900 | 1880.0 | 661 | GPRS Class 10 | 2 Uplink Slots | Bottom Side | Touch | 29.9 | BAP | 0.017 | 0.223 | 1g |
| | | 1880.0 | 9400 | WCDMA Rel99 | 12.2k RMC | Bottom Side | Touch | 24.0 | MAP | -0.010 | 0.270 | 1g |
| | | 1880.0 | 600 | EV-DO Rel. 0 | FTAP 2 slot 307 kbps | Bottom Side | Touch | 24.5 | MAP | -0.093 | 0.320 | 1g |

| SAR LIMIT(S) | | BODY | SPATIAL PEAK | RF EXPOSURE CATEGORY |
|-------------------|-----------------------------|----------|--------------|-----------------------------------|
| FCC 47 CFR 2.1093 | Health Canada Safety Code 6 | 1.6 W/kg | 1g average | General Population / Uncontrolled |

| Test Date | ρ (Kg/m ³) | Ambient Temperature | Fluid Temperature | Fluid Depth | Relative Humidity | Atmospheric Pressure |
|------------------|-----------------------------|---------------------|-------------------|-------------|-------------------|----------------------|
| October 15, 2010 | 1000 | 22.0 °C | 21.5 °C | ≥15 cm | 35 % | 101.1 kPa |
| October 26, 2010 | 1000 | 21.0 °C | 20.8 °C | ≥15 cm | 40 % | 101.1 kPa |

| Notes | |
|-------|---|
| 1. | Detailed measurement data and plots showing the maximum SAR location of the DUT are reported in Appendix A. |
| 2. | The SAR evaluations (3G modes) were performed in accordance with the procedures specified in FCC KDB 941225 D01v02 (see reference [9]). |
| 3. | The measured SAR levels were < 0.8 W/kg (1g); therefore SAR evaluations for the remaining channels were not required (per FCC KDB 447498 Section 1(e)). |
| 4. | The conducted power levels for EDGE mode, as specified by the manufacturer of the Gobi2000 WWAN module, are ~ 5 dB lower than the conducted output power levels specified for GPRS mode and therefore EDGE mode was not evaluated. |
| 5. | The conducted power levels for HSDPA/HSUPA modes, as specified by the manufacturer of the Gobi2000 WWAN module, are lower than the conducted power levels specified for WCDMA Rel99 mode; therefore HSDPA/HSUPA modes were not evaluated. |
| 6. | The conducted output power levels measured for EV-DO Rel. A were not > the conducted output power levels measured for EV-DO Rel. 0; therefore EV-DO Rel. A mode was not evaluated. |
| 7. | The conducted output power levels measured for CDMA 1xRTT were not > 0.25 dB higher than the conducted output power levels measured for EV-DO Rel. 0; therefore CDMA 1xRTT mode was not evaluated. |
| 8. | The SAR drift of the DUT during the SAR evaluations was measured by the DASY4 system. |
| 9. | The internal battery of the Tablet PC was fully charged prior to the SAR evaluations. |
| 10. | The fluid temperature was measured prior to and after the SAR evaluations. The fluid temperature remained within +/-2°C during the SAR evaluations. |
| 11. | The dielectric parameters of the simulated tissue mixture were measured prior to the SAR evaluations using an HP 85070C Dielectric Probe Kit and an HP 8753ET Network Analyzer (see Appendix C). |

| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | | | | |
|--|-------------------------------|-------------------------------|---------------------------------|--|
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| | October 15 & 26, 2010 | 092110Q2G-T1048b-S24M | Rev. 1.0 (Initial Release) | |
| | <u>Test Report Issue Date</u> | <u>Description of Test(s)</u> | <u>RF Exposure Category</u> | |
| | December 19, 2010 | Specific Absorption Rate | Gen. Pop. / Uncontrolled | Test Lab Certificate No. 2470.01 |

7.0 DETAILS OF SAR EVALUATION

Test Configuration(s)

- The DUT was tested for body SAR (lap-held) with the bottom side of the Tablet PC parallel and touching the outer surface of the planar phantom.
- The detailed test setup photographs are shown in Appendix D.

Test Mode(s)


- The SAR evaluations for GPRS mode were performed with an air-link communication established with the Agilent 8960 Series 10 E5515C Wireless Communications Test Set with 2 uplink slots (Multi-slot Class 10).
- The SAR evaluations in WCDMA mode were performed with an air-link communication established with the Agilent 8960 Series 10 E5515C Wireless Communications Test Set with 12.2 kbps RMC channel and the TPC bits configured to all "1s".
- The SAR evaluations in CDMA/EV-DO modes were performed with an air-link communication established with the Agilent 8960 Series 10 E5515C Wireless Communications Test Set at maximum power in "all bits up" power control mode.



Power Level(s)

- The conducted output power levels of the DUT were measured prior to the SAR evaluations (see Section 4.0) with the Agilent 8960 Series 10 E5515C Wireless Communications Test Set and Gigatronics Universal Power Meter with Burst Average Power (GPRS mode) and Modulated Average Power (WCDMA, CDMA/EV-DO modes).

8.0 SAR EVALUATION PROCEDURES

- The evaluation was performed in the applicable area of the phantom depending on the type of device being tested. For devices held to the ear during normal operation, both the left and right ear positions were evaluated using the SAM phantom.
 - For body-worn and face-held devices a planar phantom was used.
- The SAR was determined by a pre-defined procedure within the DASY4 software. Upon completion of a reference and optical surface check, the exposed region of the phantom was scanned near the inner surface with a grid spacing of 15mm x 15mm.
An area scan was determined as follows:
- Based on the defined area scan grid, a more detailed grid is created to increase the points by a factor of 10. The interpolation function then evaluates all field values between corresponding measurement points.
- A linear search is applied to find all the candidate maxima. Subsequently, all maxima are removed that are >2 dB from the global maximum. The remaining maxima are then used to position the cube scans.
A 1g and 10g spatial peak SAR was determined as follows:
- Extrapolation is used to 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.

| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
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| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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9.0 CO-LOCATED TRANSMITTER(S)

The iX104C5 Tablet PC incorporating the GOBI2000 WWAN Mini-PCI Express Card FCC ID: Q2GGOBI2K-XPL (with “Non Pump-Up” Antenna) can be co-located with the following transmitters:

| Transmitter Type | Manufacturer | FCC ID | IC ID | Model | Co-Transmit |
|-------------------|--------------|--------------|----------------|----------------|-------------|
| WLAN | Intel | Q2GI6200-XPL | 4596A-I6200XPL | 622ANHMMW | No |
| Class 2 Bluetooth | Broadcom | QDS-BRCM1043 | 4324A-BRCM1043 | BCM92070MD_REF | Yes |

10.0 SIMULTANEOUS TRANSMISSION ASSESSMENT


The provisions set forth in FCC KDB 447498 D01v04 Section 3)b)ii) were applied to determine simultaneous transmission SAR evaluations were not required based on the following:



WWAN Co-Transmission: WLAN can transmit simultaneously with Bluetooth
Bluetooth Output Power = 4.27 dBm (< 60/f mW)

Antenna-to-Antenna Distance: WWAN to Bluetooth = 17.9 cm

Summary

SAR evaluation for simultaneous transmission of the WWAN and Bluetooth is not required based on the maximum conducted output power of the Bluetooth (for which stand-alone SAR evaluation not required) is < 60/f mW and the antenna-to-antenna separation distance (WWAN to Bluetooth) is > 5 cm.

| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
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| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | Test Report Issue Date December 19, 2010 | Description of Test(s) Specific Absorption Rate | RF Exposure Category Gen. Pop. / Uncontrolled | |

11.0 SYSTEM PERFORMANCE CHECK

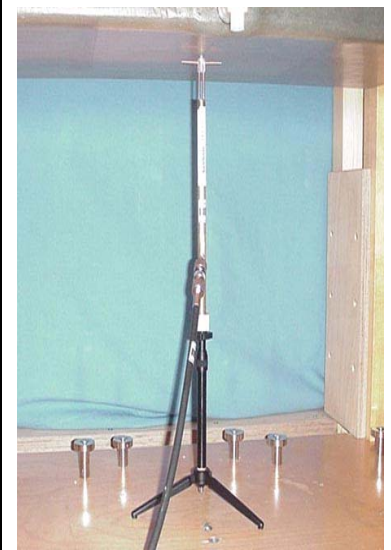
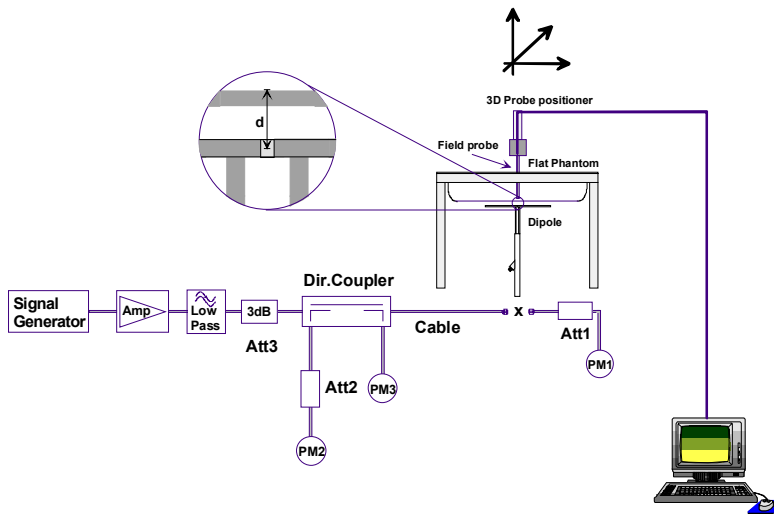
Prior to the SAR evaluations, daily system checks were performed using a planar phantom with 835 MHz and 1900 MHz SPEAG dipoles (see Appendix B for system performance check evaluation plots) in accordance with the procedures described in IEEE Standard 1528-2003 (see reference [5]) and IEC International Standard 62209-1:2005 (see reference [6]). 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 F for system manufacturer's dipole calibration procedures).

SYSTEM PERFORMANCE CHECK EVALUATION RESULTS

| Test Date | Fluid Freq. | SAR 1g (W/kg) | | | Dielectric Constant ϵ_r | | | Conductivity σ (mho/m) | | | ρ (Kg/m ³) | 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. | | | | | | |
| Oct 26 | 835 | 2.49 $\pm 10\%$ | 2.50 | +0.4% | 55.2 $\pm 5\%$ | 52.6 | -4.7% | 0.97 $\pm 5\%$ | 0.99 | +2.1% | 1000 | 22.0 | 21.5 | ≥ 15 | 35 | 101.1 |
| Oct 15 | 1900 | 10.6 $\pm 10\%$ | 10.3 | -2.8% | 53.3 $\pm 5\%$ | 51.0 | -4.3% | 1.52 $\pm 5\%$ | 1.49 | -2.0% | 1000 | 21.0 | 20.8 | ≥ 15 | 40 | 101.1 |

Notes


- The target SAR values are the measured values from the dipole calibration performed by SPEAG (see Appendix F).
- The target dielectric parameters are the nominal values from the dipole calibration performed by SPEAG (see Appendix F).
- 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.
- 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 Measurement Setup Diagram (IEEE 1528-2003)

835 MHz Validation Dipole Setup

1900 MHz Validation Dipole Setup

| | | | | | | |
|-------------------------|--|---------|---------------|-----|-----------------|---|
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12.0 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 reference [11]) in accordance with the procedures and requirements specified in IEEE Standard 1528-2003 (see reference [5]) and IEC Standard 62209-1:2005 (see reference [6]). The ingredient percentage may have been adjusted marginally in order to achieve the appropriate target dielectric parameters within the specified tolerance.




| 1900 MHz TISSUE MIXTURE | |
|-------------------------|---------------|
| INGREDIENT | 1900 MHz BODY |
| Water | 69.85 % |
| Glycol Monobutyl | 29.89 % |
| Salt | 0.26 % |

| 835 MHz TISSUE MIXTURE | |
|------------------------|--------------|
| INGREDIENT | 835 MHz BODY |
| Water | 53.79 % |
| Sugar | 45.13 % |
| Salt | 0.98 % |
| Bactericide | 0.10 % |

13.0 SAR LIMITS


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



| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |   |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

14.0 ROBOT SYSTEM SPECIFICATIONS

| | |
|--|---|
| <u>Specifications</u> | |
| Positioner | Stäubli Unimation Corp. Robot Model: RX60L |
| Repeatability | 0.02 mm |
| No. of axis | 6 |
| <u>Data Acquisition Electronic (DAE) System</u> | |
| <u>Cell Controller</u> | |
| Processor | AMD Athlon XP 2400+ |
| Clock Speed | 2.0 GHz |
| Operating System | Windows XP Professional |
| <u>Data Converter</u> | |
| Features | Signal Amplifier, multiplexer, A/D converter, and control logic |
| Software | Measurement Software: DASY4, V4.7 Build 44 |
| | Postprocessing Software: SEMCAD, V1.8 Build 171 |
| Connecting Lines | Optical downlink for data and status info.; Optical uplink for commands and clock |
| <u>DASY4 Measurement Server</u> | |
| Function | Real-time data evaluation for field measurements and surface detection |
| Hardware | PC/104 166MHz Pentium CPU; 32 MB chipdisk; 64 MB RAM |
| Connections | COM1, COM2, DAE, Robot, Ethernet, Service Interface |
| <u>E-Field Probe</u> | |
| <u>Probe (850 Band)</u> | |
| Model | ET3DV6 |
| Serial No. | 1590 |
| Construction | Triangular core fiber optic detection system |
| Frequency | 10 MHz to 6 GHz |
| Linearity | ±0.2 dB (30 MHz to 3 GHz) |
| <u>Probe (1900 Band)</u> | |
| Model | EX3DV4 |
| Serial No. | 3600 |
| Construction | Symmetrical design with triangular core |
| Frequency | 10 MHz to 6 GHz |
| Linearity | ±0.2 dB (30 MHz to 3 GHz) |
| <u>Phantom(s)</u> | |
| Type | Barski Planar Phantom |
| Shell Material | Fiberglass |
| Thickness | 2.0 ±0.1 mm |
| Volume | Approx. 70 liters |

| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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|--|-------------------------------|-------------------------------|---------------------------------|--|
|  | <u>Date(s) of Evaluation</u> | <u>Test Report Serial No.</u> | <u>Test Report Revision No.</u> |  |
| | October 15 & 26, 2010 | 092110Q2G-T1048b-S24M | Rev. 1.0 (Initial Release) | |
| | <u>Test Report Issue Date</u> | <u>Description of Test(s)</u> | <u>RF Exposure Category</u> | |
| | December 19, 2010 | Specific Absorption Rate | Gen. Pop. / Uncontrolled | Test Lab Certificate No. 2470.01 |

15.0 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: ± 0.2 dB (30 MHz to 3 GHz) |
| Directivity: | ± 0.2 dB in brain tissue (rotation around probe axis) ± 0.4 dB in brain tissue (rotation normal to probe axis) |
| Dynamic Range: | $5 \mu\text{W/g}$ to > 100 mW/g; Linearity: ± 0.2 dB |
| Surface Detect: | ± 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: ± 0.2 dB (30 MHz to 3 GHz) |
| Directivity: | ± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis) |
| Dynamic Range: | $10 \mu\text{W/g}$ to >100 mW/g; Linearity: ± 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

16.0 BARSKI PLANAR PHANTOM

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




Barski Planar Phantom



17.0 DEVICE HOLDER

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




Device Holder




| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

18.0 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 | 15Jul10 | 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 | -Barski Planar Phantom | 00155 | 03-01 | 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 | | | | |

| | | | | | | |
|-------------------------|--|----------------|----------------------|------------|------------------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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|--|--|--|--|---|
|  | Date(s) of Evaluation October 15 & 26, 2010 | Test Report Serial No. 092110Q2G-T1048b-S24M | Test Report Revision No. Rev. 1.0 (Initial Release) |   |
| | Test Report Issue Date December 19, 2010 | Description of Test(s) Specific Absorption Rate | RF Exposure Category Gen. Pop. / Uncontrolled | |


19.0 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_i or V_{eff} |
|---|-------------------|---------------------------|--------------------------|-------------|-------|--------|--------------------------------|---------------------------------|--------------------|
| Measurement System | | | | | | | | | |
| Probe Calibration (835 MHz) | E.2.1 | 5.5 | Normal | 1 | 1 | 1 | 5.5 | 5.5 | ∞ |
| Axial Isotropy | E.2.2 | 4.7 | Rectangular | 1.732050808 | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| Hemispherical Isotropy | E.2.2 | 9.6 | Rectangular | 1.732050808 | 0.7 | 0.7 | 3.9 | 3.9 | ∞ |
| Boundary Effect | E.2.3 | 1 | Rectangular | 1.732050808 | 1 | 1 | 0.6 | 0.6 | ∞ |
| Linearity | E.2.4 | 4.7 | Rectangular | 1.732050808 | 1 | 1 | 2.7 | 2.7 | ∞ |
| System Detection Limits | E.2.5 | 1 | Rectangular | 1.732050808 | 1 | 1 | 0.6 | 0.6 | ∞ |
| Readout Electronics | E.2.6 | 0.3 | Normal | 1 | 1 | 1 | 0.3 | 0.3 | ∞ |
| Response Time | E.2.7 | 0.8 | Rectangular | 1.732050808 | 1 | 1 | 0.5 | 0.5 | ∞ |
| Integration Time | E.2.8 | 2.6 | Rectangular | 1.732050808 | 1 | 1 | 1.5 | 1.5 | ∞ |
| RF Ambient Conditions | E.6.1 | 3 | Rectangular | 1.732050808 | 1 | 1 | 1.7 | 1.7 | ∞ |
| Probe Positioner Mechanical Tolerance | E.6.2 | 0.4 | Rectangular | 1.732050808 | 1 | 1 | 0.2 | 0.2 | ∞ |
| Probe Positioning wrt Phantom Shell | E.6.3 | 2.9 | Rectangular | 1.732050808 | 1 | 1 | 1.7 | 1.7 | ∞ |
| Extrapolation, interpolation & integration algorithms for max. SAR evaluation | E.5 | 1 | Rectangular | 1.732050808 | 1 | 1 | 0.6 | 0.6 | ∞ |
| Test Sample Related | | | | | | | | | |
| 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 | ∞ |
| Phantom and Tissue Parameters | | | | | | | | | |
| Phantom Uncertainty | E.3.1 | 4 | Rectangular | 1.732050808 | 1 | 1 | 2.3 | 2.3 | ∞ |
| Liquid Conductivity (target) | E.3.2 | 5 | Rectangular | 1.732050808 | 0.64 | 0.43 | 1.8 | 1.2 | ∞ |
| Liquid Conductivity (measured) | E.3.3 | 2.06 | Normal | 1 | 0.64 | 0.43 | 1.3 | 0.9 | ∞ |
| Liquid Permittivity (target) | E.3.2 | 5 | Rectangular | 1.732050808 | 0.6 | 0.49 | 1.7 | 1.4 | ∞ |
| Liquid Permittivity (measured) | E.3.3 | 4.71 | Normal | 1 | 0.6 | 0.49 | 2.8 | 2.3 | ∞ |
| Combined Standard Uncertainty | | | RSS | | | | 10.81 | 10.51 | |
| Expanded Uncertainty (95% Confidence Interval) | | | k=2 | | | | 21.62 | 21.01 | |

Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003

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


| | | | | | | |
|-------------------------|--|---------|---------------|-----|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | Test Report Issue Date December 19, 2010 | Description of Test(s) Specific Absorption Rate | RF Exposure Category Gen. Pop. / Uncontrolled | |

MEASUREMENT UNCERTAINTIES (Cont.)

| 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_i or V_{eff} |
| Measurement System | | | | | | | | | |
| Probe Calibration (1900 MHz) | E.2.1 | 5.5 | Normal | 1 | 1 | 1 | 5.5 | 5.5 | ∞ |
| Axial Isotropy | E.2.2 | 4.7 | Rectangular | 1.732050808 | 0.7 | 0.7 | 1.9 | 1.9 | ∞ |
| Hemispherical Isotropy | E.2.2 | 9.6 | Rectangular | 1.732050808 | 0.7 | 0.7 | 3.9 | 3.9 | ∞ |
| Boundary Effect | E.2.3 | 1 | Rectangular | 1.732050808 | 1 | 1 | 0.6 | 0.6 | ∞ |
| Linearity | E.2.4 | 4.7 | Rectangular | 1.732050808 | 1 | 1 | 2.7 | 2.7 | ∞ |
| System Detection Limits | E.2.5 | 1 | Rectangular | 1.732050808 | 1 | 1 | 0.6 | 0.6 | ∞ |
| Readout Electronics | E.2.6 | 0.3 | Normal | 1 | 1 | 1 | 0.3 | 0.3 | ∞ |
| Response Time | E.2.7 | 0.8 | Rectangular | 1.732050808 | 1 | 1 | 0.5 | 0.5 | ∞ |
| Integration Time | E.2.8 | 2.6 | Rectangular | 1.732050808 | 1 | 1 | 1.5 | 1.5 | ∞ |
| RF Ambient Conditions | E.6.1 | 3 | Rectangular | 1.732050808 | 1 | 1 | 1.7 | 1.7 | ∞ |
| Probe Positioner Mechanical Tolerance | E.6.2 | 0.4 | Rectangular | 1.732050808 | 1 | 1 | 0.2 | 0.2 | ∞ |
| Probe Positioning wrt Phantom Shell | E.6.3 | 2.9 | Rectangular | 1.732050808 | 1 | 1 | 1.7 | 1.7 | ∞ |
| Extrapolation, interpolation & integration algorithms for max. SAR evaluation | E.5 | 1 | Rectangular | 1.732050808 | 1 | 1 | 0.6 | 0.6 | ∞ |
| Test Sample Related | | | | | | | | | |
| 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 | ∞ |
| Phantom and Tissue Parameters | | | | | | | | | |
| Phantom Uncertainty | E.3.1 | 4 | Rectangular | 1.732050808 | 1 | 1 | 2.3 | 2.3 | ∞ |
| Liquid Conductivity (target) | E.3.2 | 5 | Rectangular | 1.732050808 | 0.64 | 0.43 | 1.8 | 1.2 | ∞ |
| Liquid Conductivity (measured) | E.3.3 | 0.68 | Normal | 1 | 0.64 | 0.43 | 0.4 | 0.3 | ∞ |
| Liquid Permittivity (target) | E.3.2 | 5 | Rectangular | 1.732050808 | 0.6 | 0.49 | 1.7 | 1.4 | ∞ |
| Liquid Permittivity (measured) | E.3.3 | 1.43 | Normal | 1 | 0.6 | 0.49 | 0.9 | 0.7 | ∞ |
| Combined Standard Uncertainty | | | RSS | | | | 10.40 | 10.24 | |
| Expanded Uncertainty (95% Confidence Interval) | | | k=2 | | | | 20.79 | 20.48 | |
| Measurement Uncertainty Table in accordance with IEEE Standard 1528-2003 | | | | | | | | | |


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



| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |


20.0 REFERENCES



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- [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 62209-1:2005 - "Human exposure to radio frequency fields from hand-held and body-mounted wireless communication devices - Human models, instrumentation, and procedures - Part 1: Procedure to determine the specific absorption rate (SAR) for handheld devices used in close proximity to the ear (300 MHz to 3 GHz)".
- [7] International Standard IEC 62209-2 Edition 1.0 2010-03 - "Human exposure to radio frequency fields from hand-held & body-mounted wireless communication devices - Part 2: Procedure to determine the specific absorption rate (SAR) for wireless communication devices used in close proximity to the human body (frequency range of 30 MHz to 6 GHz)".
- [8] Federal Communications Commission, Office of Engineering and Technology - "Mobile and Portable Device RF Exposure Procedures and Equipment Authorization Policies"; KDB 447498 D01v04: November 2009.
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| | | | | | | |
|-------------------------|--|----------------|----------------------|------------|------------------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
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| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

APPENDIX A - SAR MEASUREMENT PLOTS

| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

Date Tested: 10/26/2010

Body SAR - GPRS 850 - 2 Uplink Slots - 836.6 MHz - Ch. 190 - Bottom Side Touch

DUT: Xplore Technologies Corporation; Type: GOBI2000 WWAN in iX104C5 Tablet PC; Serial: XPL 01 WWAN Antenna P/N: 25.90A0P.001 ("Non Pump-Up")

Ambient Temp: 21.0°C; Fluid Temp: 20.8°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: GPRS - 2 Uplink

Frequency: 836.6 MHz; Duty Cycle: 1:4.16

Medium: M835 Medium parameters used: $f = 836.6 \text{ MHz}$; $\sigma = 0.992 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.33, 6.33, 6.33); Calibrated: 15/07/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - Bottom Side of Tablet PC Touching Planar Phantom

Area Scan (14x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.087 mW/g

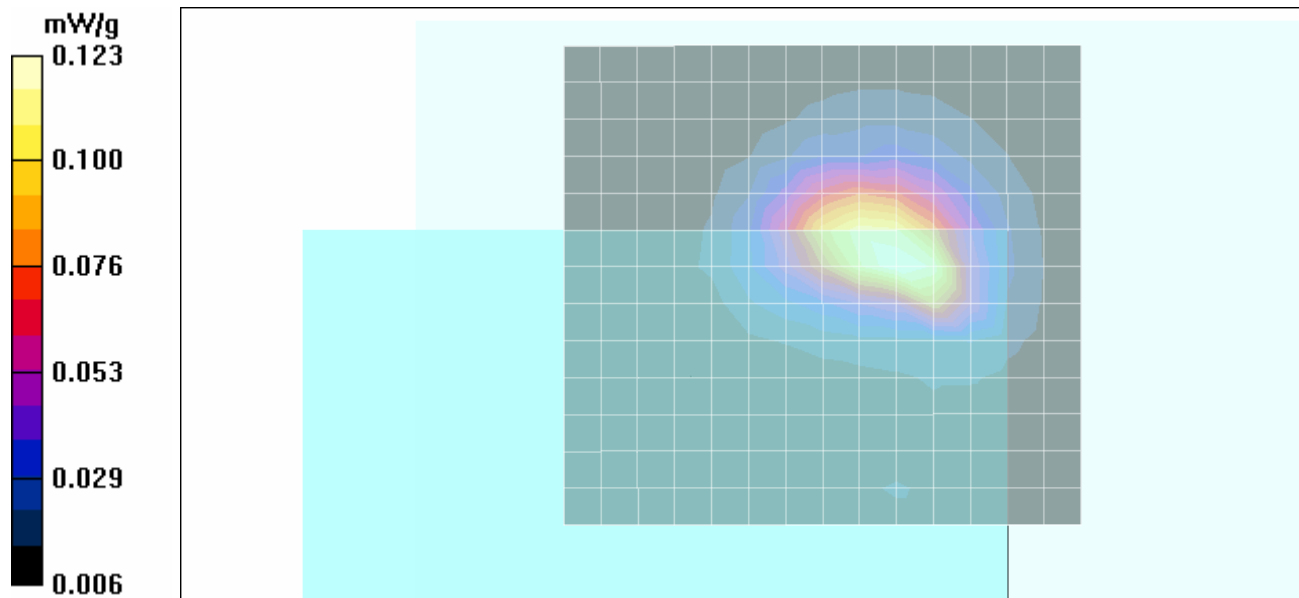
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$


Reference Value = 8.85 V/m; Power Drift = -0.034 dB



Peak SAR (extrapolated) = 0.401 W/kg

SAR(1 g) = 0.093 mW/g; SAR(10 g) = 0.055 mW/g

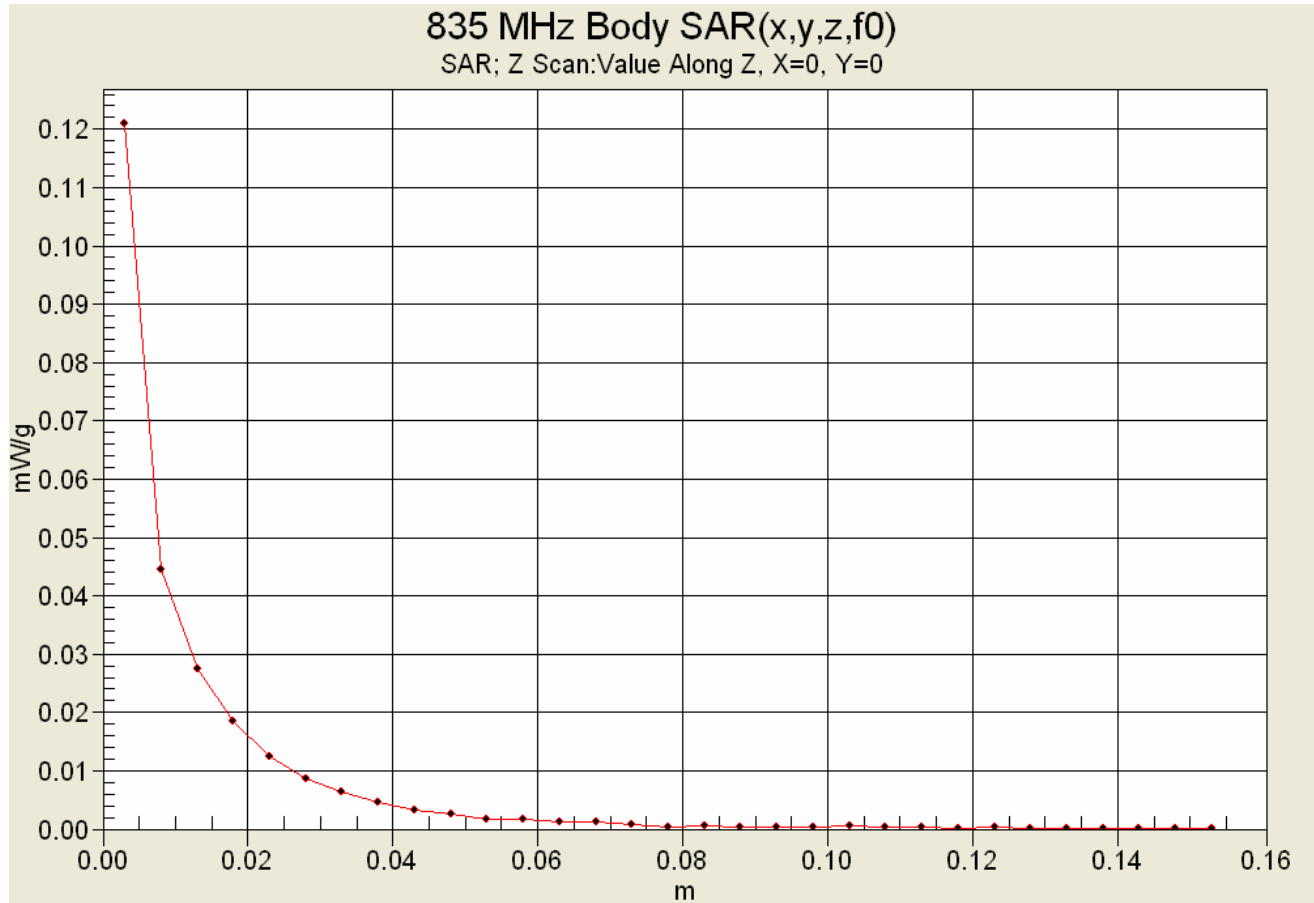
Maximum value of SAR (measured) = 0.123 mW/g





| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

Z-Axis Scan



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|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

Date Tested: 10/26/2010

Body SAR - WCDMA Rel99 (850) - 12.kbps - 836.4 MHz - Ch. 4182 - Bottom Side Touch

**DUT: Xplore Technologies Corporation; Type: GOBI2000 WWAN in iX104C5 Tablet PC; Serial: XPL 01
WWAN Antenna P/N: 25.90A0P.001 ("Non Pump-Up")**

Ambient Temp: 21.0°C; Fluid Temp: 20.8°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: WCDMA 850

Frequency: 836.4 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used: $f = 836.4 \text{ MHz}$; $\sigma = 0.992 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.33, 6.33, 6.33); Calibrated: 15/07/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - Bottom Side of Tablet PC Touching Planar Phantom

Area Scan (14x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.061 mW/g

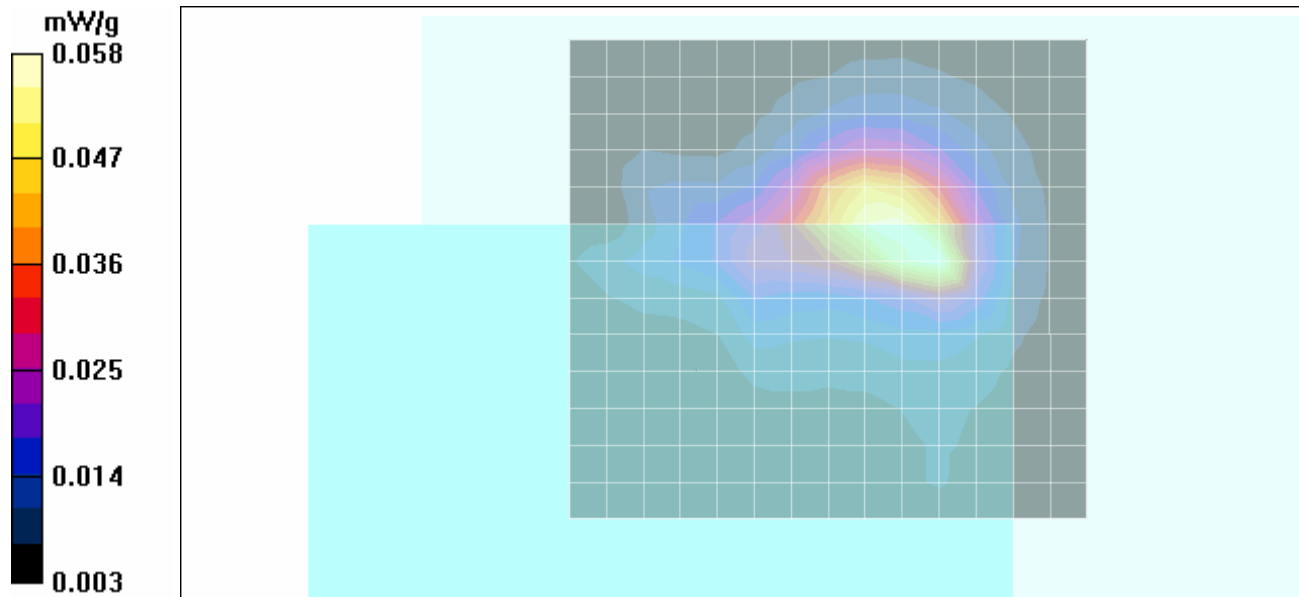
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$


Reference Value = 7.88 V/m; Power Drift = -0.064 dB



Peak SAR (extrapolated) = 0.090 W/kg

SAR(1 g) = 0.055 mW/g; SAR(10 g) = 0.037 mW/g

Maximum value of SAR (measured) = 0.058 mW/g



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|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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|--|-------------------------------|-------------------------------|---------------------------------|--|
|  | <u>Date(s) of Evaluation</u> | <u>Test Report Serial No.</u> | <u>Test Report Revision No.</u> |  |
| | October 15 & 26, 2010 | 092110Q2G-T1048b-S24M | Rev. 1.0 (Initial Release) | |
| | <u>Test Report Issue Date</u> | <u>Description of Test(s)</u> | <u>RF Exposure Category</u> | |
| | December 19, 2010 | Specific Absorption Rate | Gen. Pop. / Uncontrolled | Test Lab Certificate No. 2470.01 |

Date Tested: 10/26/2010

Body SAR - EV-DO Rel. 0 (850) - FTAP 307kbps - 836.52 MHz - Ch. 384 - Bottom Side Touch

**DUT: Xplore Technologies Corporation; Type: GOBI2000 WWAN in iX104C5 Tablet PC; Serial: XPL 01
WWAN Antenna P/N: 25.90A0P.001 (“Non Pump-Up”)**

Ambient Temp: 21.0°C; Fluid Temp: 20.8°C; Barometric Pressure: 101.1 kPa; Humidity: 40%

Communication System: EV-DO Rel. 0

Frequency: 836.52 MHz; Duty Cycle: 1:1

Medium: M835 Medium parameters used: $f = 836.52 \text{ MHz}$; $\sigma = 0.992 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.33, 6.33, 6.33); Calibrated: 15/07/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - Bottom Side of Tablet PC Touching Planar Phantom

Area Scan (14x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.090 mW/g

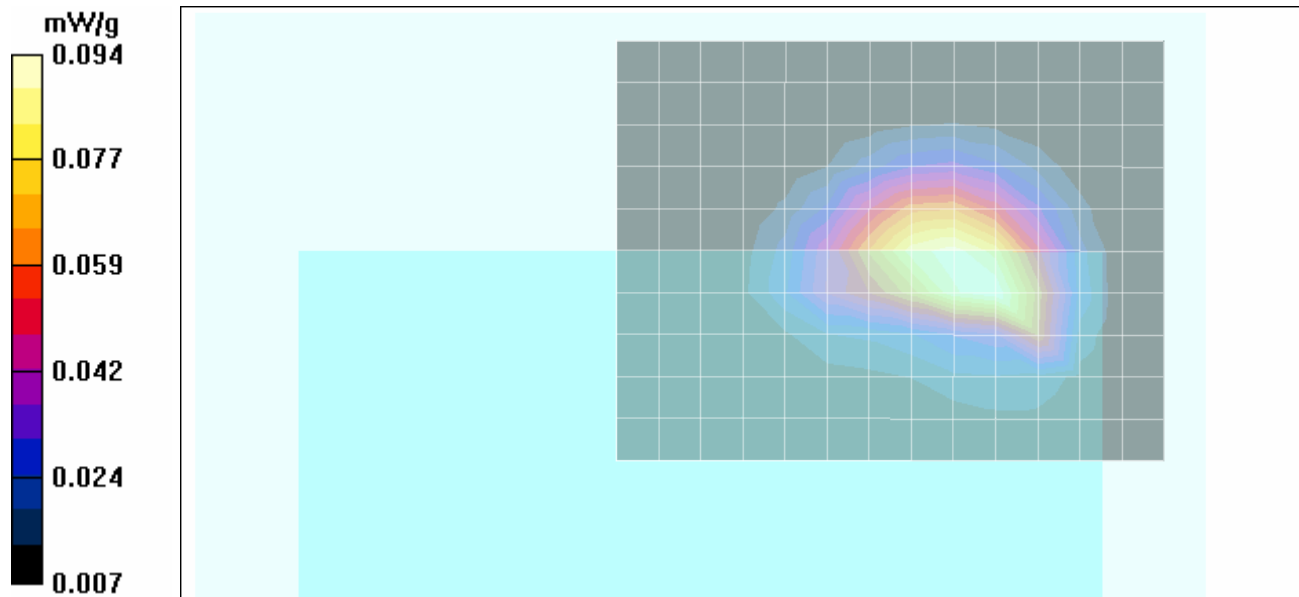
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$



Reference Value = 10.1 V/m; Power Drift = -0.023 dB

Peak SAR (extrapolated) = 0.156 W/kg

SAR(1 g) = 0.088 mW/g; SAR(10 g) = 0.062 mW/g

Maximum value of SAR (measured) = 0.094 mW/g



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|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

Date Tested: 10/15/2010

Body SAR - GPRS 1900 - 2 Uplink Slots - 1880.0 MHz - Ch. 661 - Bottom Side Touch

DUT: Xplore Technologies Corporation; Type: GOBI2000 WWAN in iX104C5 Tablet PC; Serial: XPL 01 WWAN Antenna P/N: 25.90A0P.001 ("Non Pump-Up")

Ambient Temp: 22.0°C; Fluid Temp: 21.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: GPRS - 2 Uplink

Frequency: 1880 MHz; Duty Cycle: 1:4.16

Medium: M1880 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 51.1$; $\rho = 1000 \text{ kg/m}^3$

- 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: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - Bottom Side of Tablet PC Touching Planar Phantom

Area Scan (14x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.258 mW/g

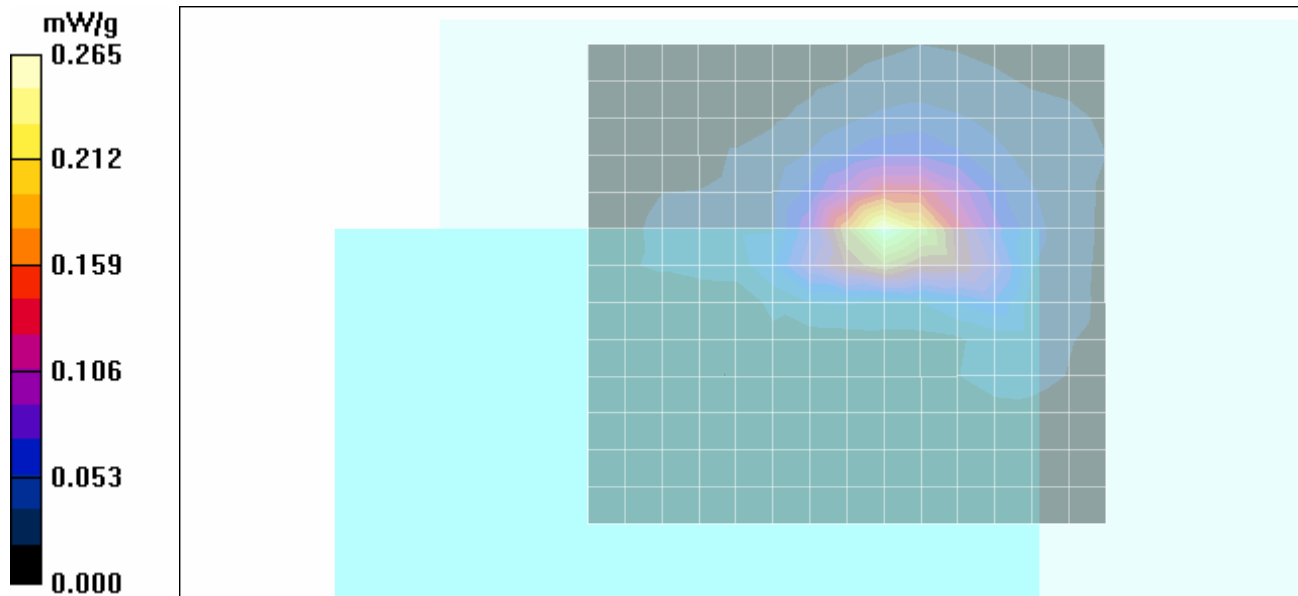
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$


Reference Value = 13.1 V/m; Power Drift = 0.017 dB



Peak SAR (extrapolated) = 0.384 W/kg

SAR(1 g) = 0.223 mW/g; SAR(10 g) = 0.121 mW/g

Maximum value of SAR (measured) = 0.265 mW/g



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|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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|--|-------------------------------|-------------------------------|---------------------------------|--|
|  | <u>Date(s) of Evaluation</u> | <u>Test Report Serial No.</u> | <u>Test Report Revision No.</u> |  |
| | October 15 & 26, 2010 | 092110Q2G-T1048b-S24M | Rev. 1.0 (Initial Release) | |
| | <u>Test Report Issue Date</u> | <u>Description of Test(s)</u> | <u>RF Exposure Category</u> | |
| | December 19, 2010 | Specific Absorption Rate | Gen. Pop. / Uncontrolled | Test Lab Certificate No. 2470.01 |

Date Tested: 10/15/2010

Body SAR - WCDMA Rel99 (1900) - 12.2kbps - 1880.0 MHz - Ch. 9400 - Bottom Side Touch

**DUT: Xplore Technologies Corporation; Type: GOBI2000 WWAN in iX104C5 Tablet PC; Serial: XPL 01
WWAN Antenna P/N: 25.90A0P.001 ("Non Pump-Up")**

Ambient Temp: 22.0°C; Fluid Temp: 21.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: WCDMA 1900

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: M1880 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 51.1$; $\rho = 1000 \text{ kg/m}^3$

- 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: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - Bottom Side of Tablet PC Touching Planar Phantom

Area Scan (14x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.280 mW/g

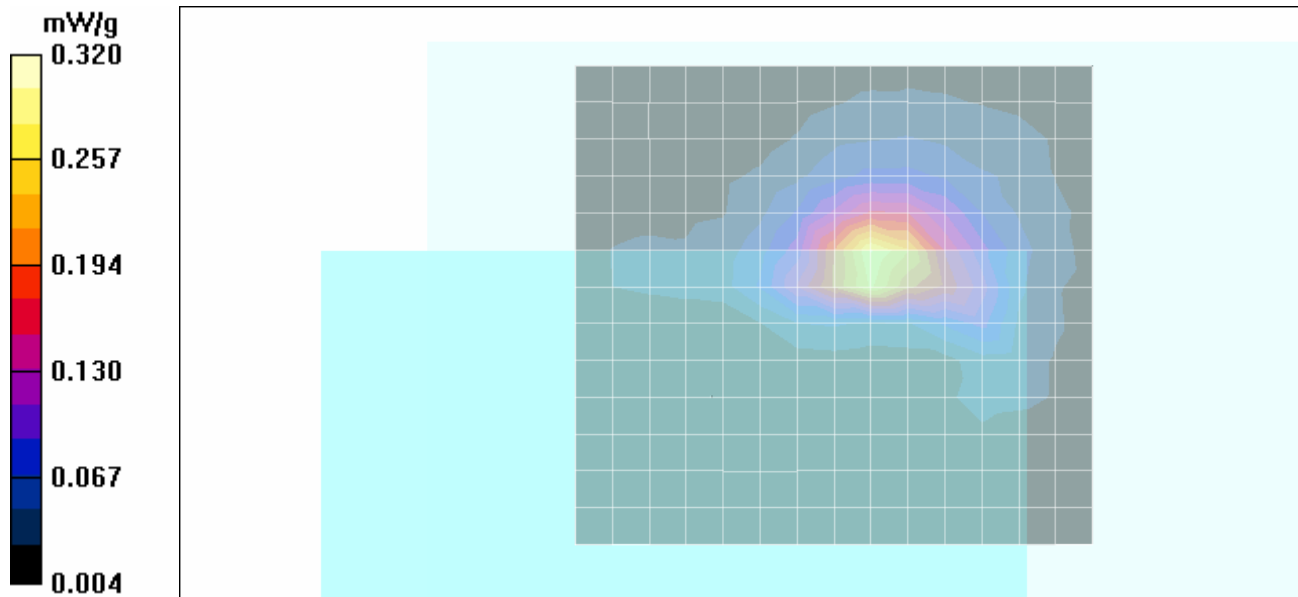
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$



Reference Value = 14.2 V/m; Power Drift = -0.010 dB

Peak SAR (extrapolated) = 0.435 W/kg

SAR(1 g) = 0.270 mW/g; SAR(10 g) = 0.159 mW/g

Maximum value of SAR (measured) = 0.320 mW/g



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|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

Date Tested: 10/15/2010

Body SAR - EV-DO Rel. 0 (1900) - FTAP 307kbps - 1880.0 MHz - Ch. 600 - Bottom Side Touch

**DUT: Xplore Technologies Corporation; Type: GOBI2000 WWAN in iX104C5 Tablet PC; Serial: XPL 01
WWAN Antenna P/N: 25.90A0P.001 (“Non Pump-Up”)**

Ambient Temp: 22.0°C; Fluid Temp: 21.5°C; Barometric Pressure: 101.1 kPa; Humidity: 35%

Communication System: EV-DO Rel. 0

Frequency: 1880 MHz; Duty Cycle: 1:1

Medium: M1880 Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.48 \text{ mho/m}$; $\epsilon_r = 51.1$; $\rho = 1000 \text{ kg/m}^3$

- 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: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- Measurement SW: DASY4, V4.7 Build 44; Postprocessing SW: SEMCAD, V1.8 Build 171

Body SAR - Bottom Side of Tablet PC Touching Planar Phantom

Area Scan (11x15x1): Measurement grid: $dx=15\text{mm}$, $dy=15\text{mm}$

Maximum value of SAR (measured) = 0.298 mW/g

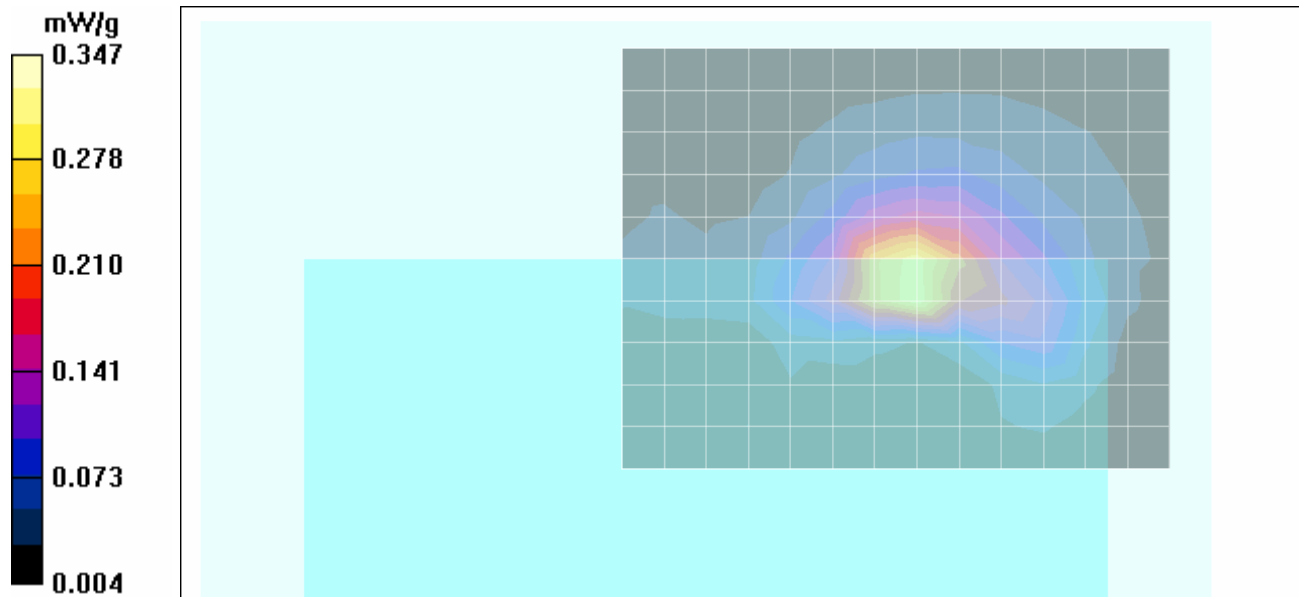
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$


Reference Value = 14.1 V/m; Power Drift = -0.093 dB



Peak SAR (extrapolated) = 0.532 W/kg

SAR(1 g) = 0.320 mW/g; SAR(10 g) = 0.186 mW/g

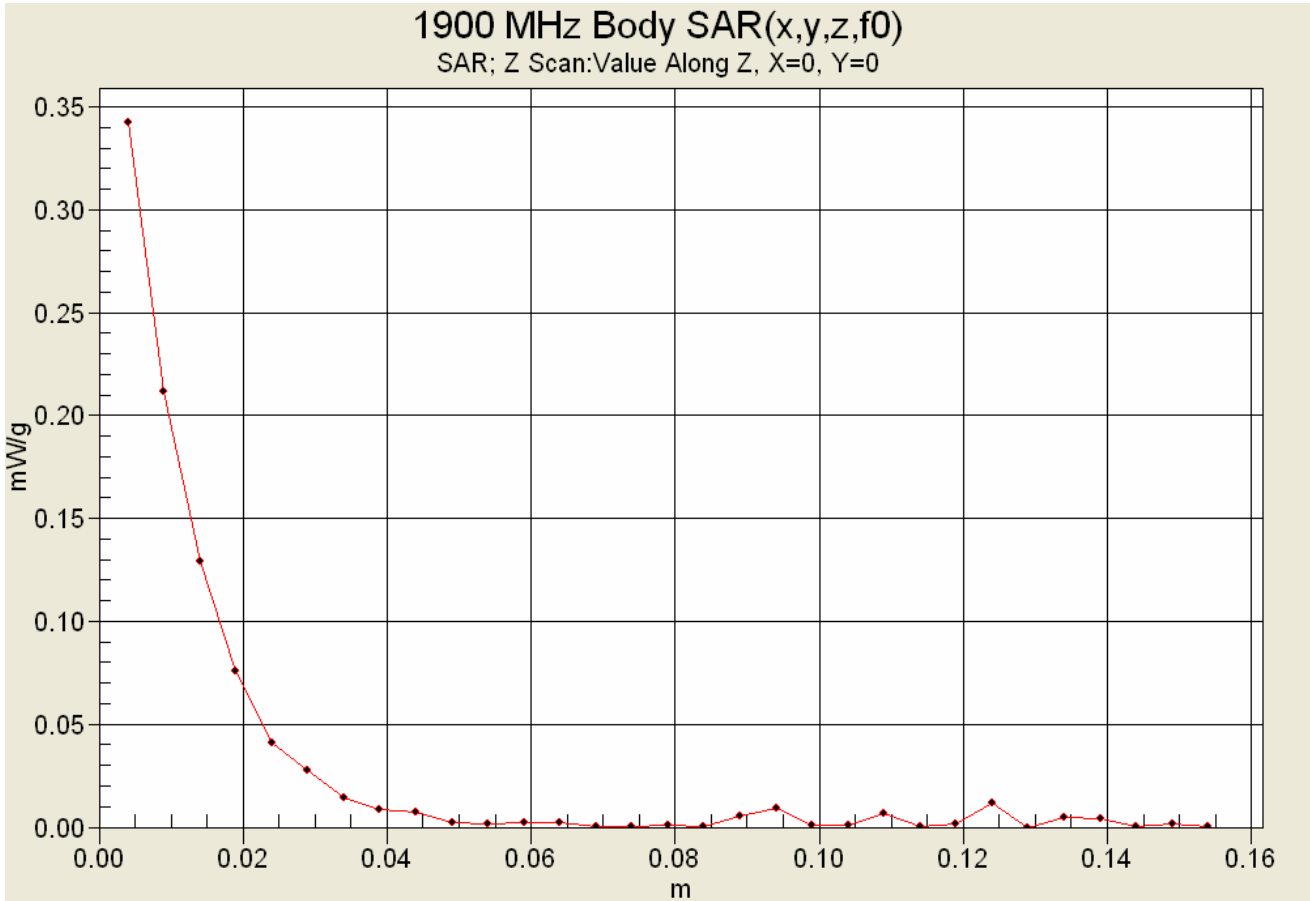
Maximum value of SAR (measured) = 0.347 mW/g






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|--|--|----------------------------|---|
| Applicant: Xplore Technologies Corp. | FCC ID: Q2GGOBI2K-XPL | IC: 4596A-GOBI2KXPL |  |
| DUT Type: GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | |
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|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |


Z-Axis Scan






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|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

APPENDIX B - SYSTEM PERFORMANCE CHECK PLOTS

| | | | | | | |
|-------------------------|--|----------------|----------------------|------------|------------------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |   |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

Date Tested: 10/26/2010

System Performance Check - 835 MHz Dipole - Body

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

Ambient Temp: 22.0°C; Fluid Temp: 21.5°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: $f = 835 \text{ MHz}$; $\sigma = 0.99 \text{ mho/m}$; $\epsilon_r = 52.6$; $\rho = 1000 \text{ kg/m}^3$

- Probe: ET3DV6 - SN1590; ConvF(6.33, 6.33, 6.33); Calibrated: 15/07/2010
- Sensor-Surface: 4mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- 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) = 2.61 mW/g

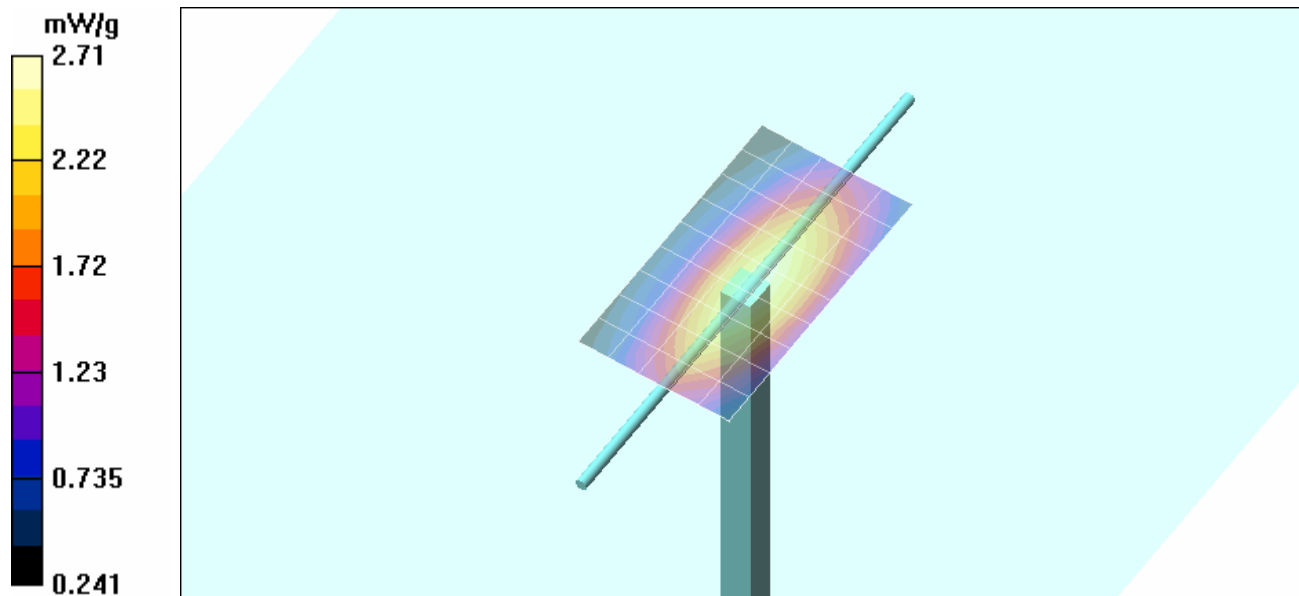
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$


Reference Value = 51.6 V/m; Power Drift = -0.036 dB

Peak SAR (extrapolated) = 3.60 W/kg

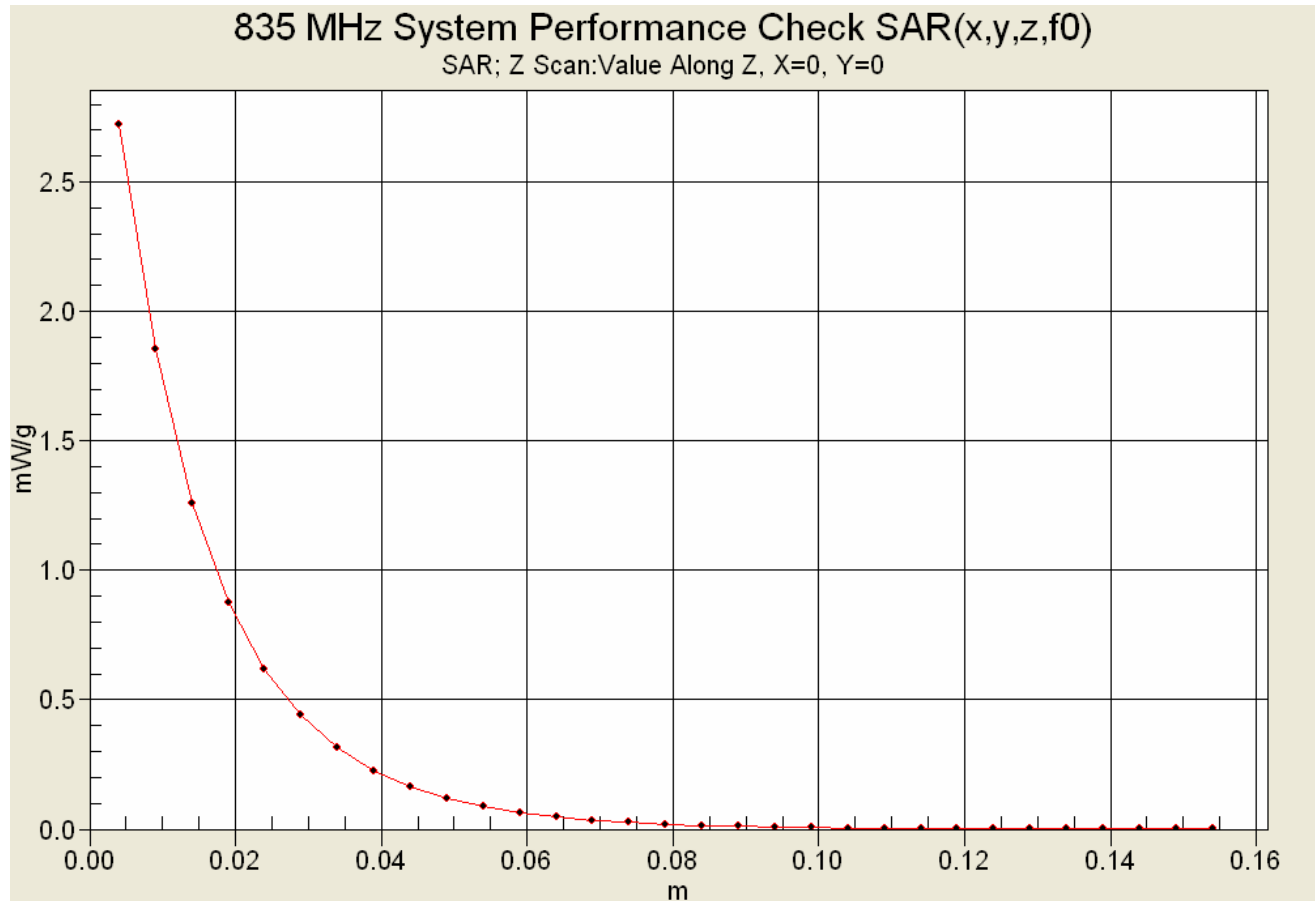
SAR(1 g) = 2.50 mW/g; SAR(10 g) = 1.64 mW/g




Maximum value of SAR (measured) = 2.71 mW/g



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|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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Z-Axis Scan



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|--|---|---|---|---|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |   |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

Date Tested: 10/15/2010

System Performance Check - 1900 MHz Dipole - Body

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

Ambient Temp: 21.0°C; Fluid Temp: 20.8°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: $f = 1900 \text{ MHz}$; $\sigma = 1.49 \text{ mho/m}$; $\epsilon_r = 51$; $\rho = 1000 \text{ kg/m}^3$

- Probe: EX3DV4 - SN3600; ConvF(6.53, 6.53, 6.53); Calibrated: 29/04/2010
- Sensor-Surface: 3mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn353; Calibrated: 27/04/2010
- Phantom: Barski Industries; Type: Fiberglass Planar; Serial: 03-01
- 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) = 12.3 mW/g

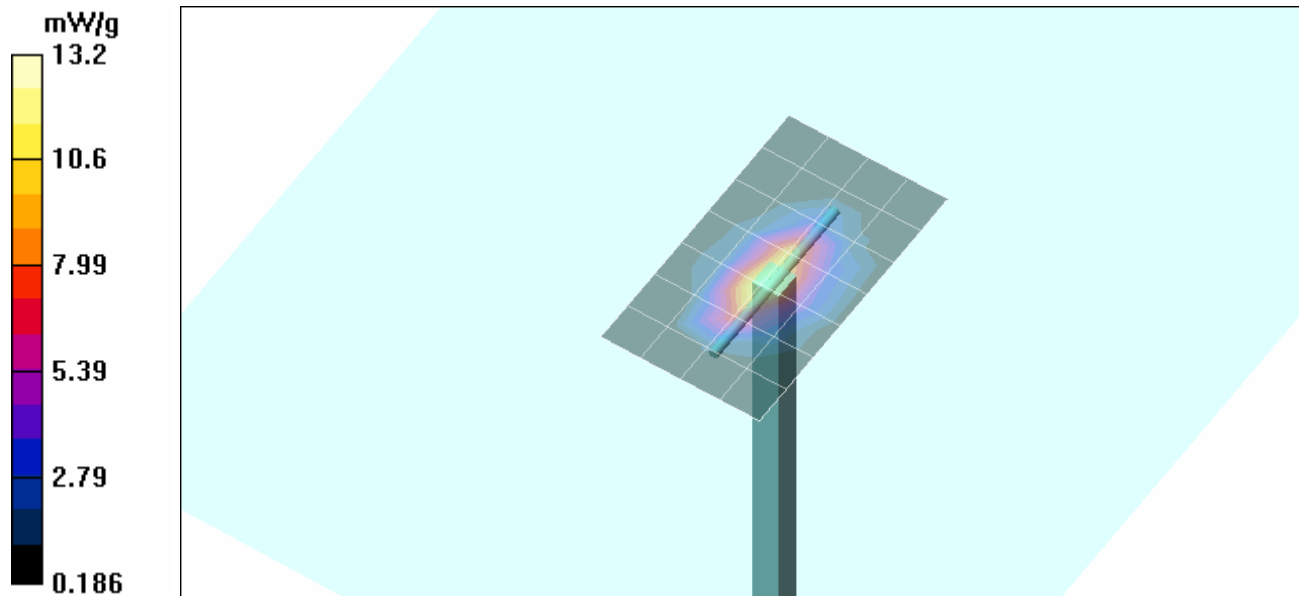
Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$


Reference Value = 85.7 V/m; Power Drift = -0.061 dB



Peak SAR (extrapolated) = 19.8 W/kg

SAR(1 g) = 10.3 mW/g; SAR(10 g) = 5.2 mW/g

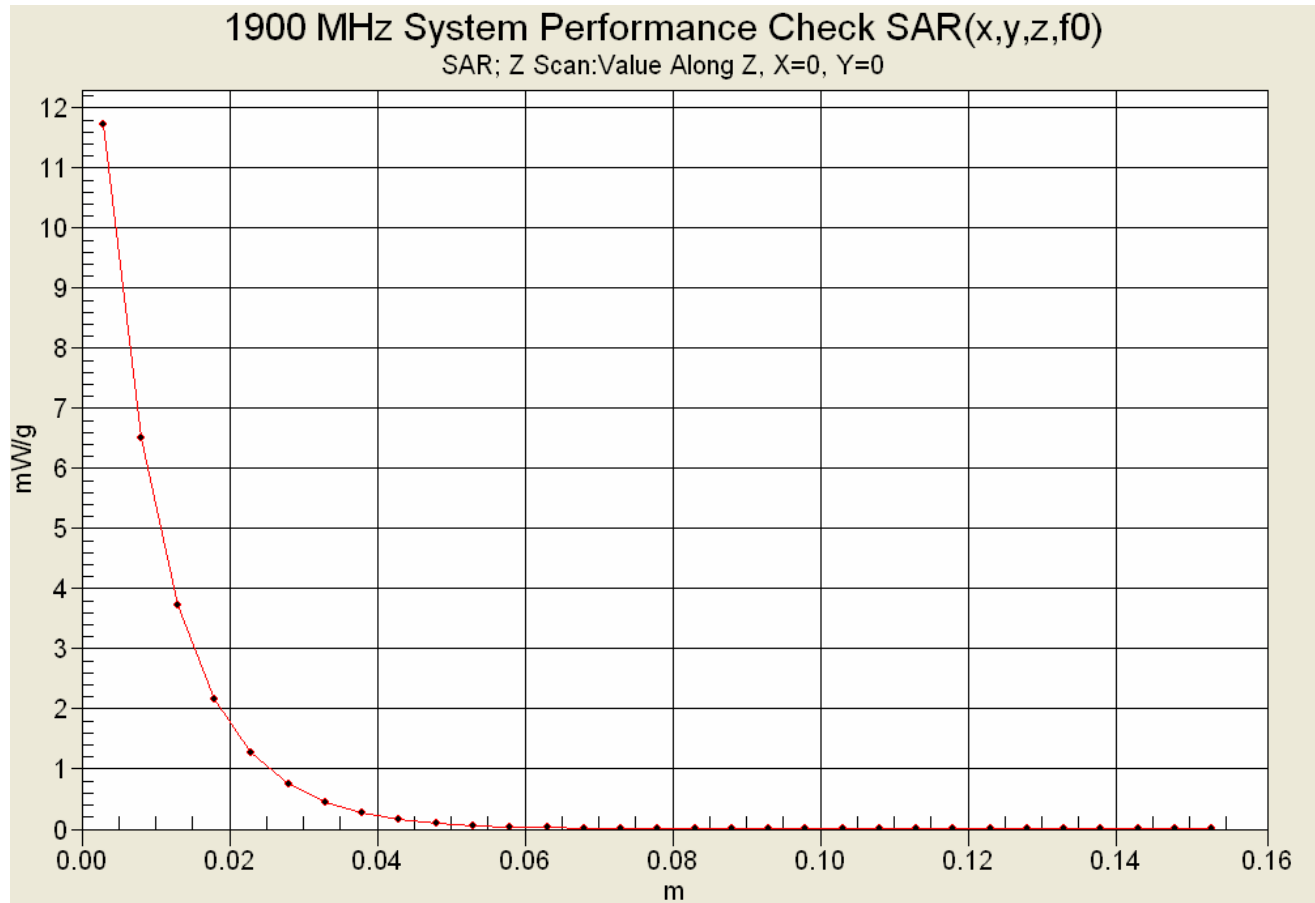
Maximum value of SAR (measured) = 13.2 mW/g





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|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |



Z-Axis Scan



| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

APPENDIX C - MEASURED FLUID DIELECTRIC PARAMETERS


| | | | | | | |
|-------------------------|--|----------------|----------------------|------------|------------------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

835 MHz (Body)

Celltech Labs Inc.
 Test Result for UIM Dielectric Parameter
 26/Oct/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 | 53.95 | 0.91 |
| 0.7450 | 55.55 | 0.96 | 53.69 | 0.92 |
| 0.7550 | 55.51 | 0.96 | 53.28 | 0.94 |
| 0.7650 | 55.47 | 0.96 | 53.20 | 0.95 |
| 0.7750 | 55.43 | 0.97 | 53.36 | 0.95 |
| 0.7850 | 55.39 | 0.97 | 53.30 | 0.97 |
| 0.7950 | 55.36 | 0.97 | 53.07 | 0.97 |
| 0.8050 | 55.32 | 0.97 | 53.18 | 0.98 |
| 0.8150 | 55.28 | 0.97 | 52.99 | 0.99 |
| 0.8250 | 55.24 | 0.97 | 52.81 | 0.98 |
| 0.8350 | 55.20 | 0.97 | 52.64 | 0.99 |
| 0.8450 | 55.17 | 0.98 | 52.50 | 1.00 |
| 0.8550 | 55.14 | 0.99 | 52.51 | 0.99 |
| 0.8650 | 55.11 | 1.01 | 52.50 | 1.00 |
| 0.8750 | 55.08 | 1.02 | 52.48 | 1.02 |
| 0.8850 | 55.05 | 1.03 | 52.44 | 1.02 |
| 0.8950 | 55.02 | 1.04 | 51.94 | 1.03 |
| 0.9050 | 55.00 | 1.05 | 51.85 | 1.05 |
| 0.9150 | 55.00 | 1.06 | 52.00 | 1.06 |
| 0.9250 | 54.98 | 1.06 | 51.57 | 1.08 |
| 0.9350 | 54.96 | 1.07 | 51.53 | 1.09 |


| | | | | | | |
|-------------------------|--|----------------|----------------------|------------|------------------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

1900 MHz (Body)


Celltech Labs Inc.
 Test Result for UIM Dielectric Parameter
 15/Oct/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 | 51.73 | 1.39 |
| 1.8100 | 53.30 | 1.52 | 51.45 | 1.41 |
| 1.8200 | 53.30 | 1.52 | 51.59 | 1.41 |
| 1.8300 | 53.30 | 1.52 | 51.61 | 1.42 |
| 1.8400 | 53.30 | 1.52 | 51.29 | 1.43 |
| 1.8500 | 53.30 | 1.52 | 51.35 | 1.44 |
| 1.8600 | 53.30 | 1.52 | 51.32 | 1.44 |
| 1.8700 | 53.30 | 1.52 | 51.33 | 1.45 |
| 1.8800 | 53.30 | 1.52 | 51.06 | 1.48 |
| 1.8900 | 53.30 | 1.52 | 51.32 | 1.49 |
| 1.9000 | 53.30 | 1.52 | 51.04 | 1.49 |
| 1.9100 | 53.30 | 1.52 | 51.41 | 1.52 |
| 1.9200 | 53.30 | 1.52 | 51.11 | 1.51 |
| 1.9300 | 53.30 | 1.52 | 51.07 | 1.52 |
| 1.9400 | 53.30 | 1.52 | 51.18 | 1.53 |
| 1.9500 | 53.30 | 1.52 | 51.00 | 1.56 |
| 1.9600 | 53.30 | 1.52 | 51.05 | 1.56 |
| 1.9700 | 53.30 | 1.52 | 51.03 | 1.57 |
| 1.9800 | 53.30 | 1.52 | 50.92 | 1.57 |
| 1.9900 | 53.30 | 1.52 | 50.95 | 1.60 |
| 2.0000 | 53.30 | 1.52 | 50.97 | 1.60 |

| | | | | | | |
|-------------------------|--|----------------|----------------------|------------|------------------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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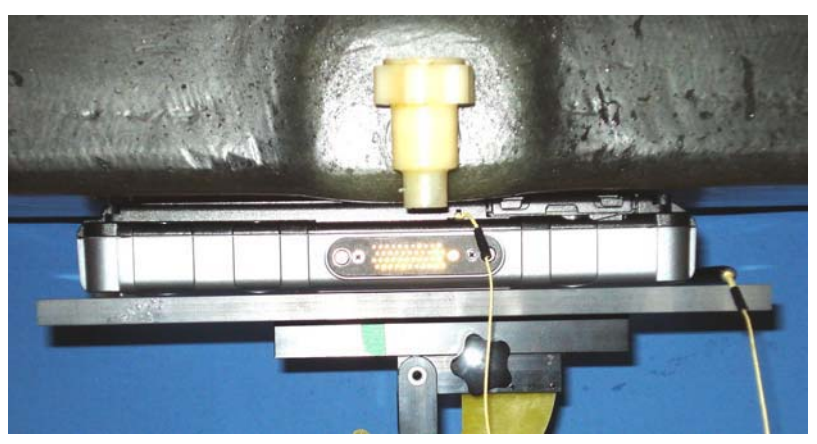
| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |



APPENDIX D - SAR TEST SETUP PHOTOGRAPHS

| | | | | | | |
|-------------------------|--|----------------|----------------------|------------|------------------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |



BODY (LAP-HELD) SAR TEST SETUP PHOTOGRAPHS
Bottom Side of iX104C5 Tablet PC Touching Planar Phantom



| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

APPENDIX E - SAR DUT PHOTOGRAPHS


| | | | | | | |
|-------------------------|--|----------------|----------------------|------------|------------------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

**WWAN Transmit
Antenna Housing
(Non Pumped-Up)**



Tablet PC Model: iX104C5 - "0 Degrees Landscape" LCD Display Orientation



| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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WWAN Transmit Antenna Housing (Non Pumped-Up)

| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |




Bottom Side of iX104C5 Tablet PC with Li-ion Battery

| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |



Bottom Side of iX104C5 Tablet PC with Li-ion Battery Removed

| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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Right Edge of Tablet PC





Left Edge of Tablet PC



Top Edge of Tablet PC (with and without antenna housing)



Bottom Edge of Tablet PC


| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |





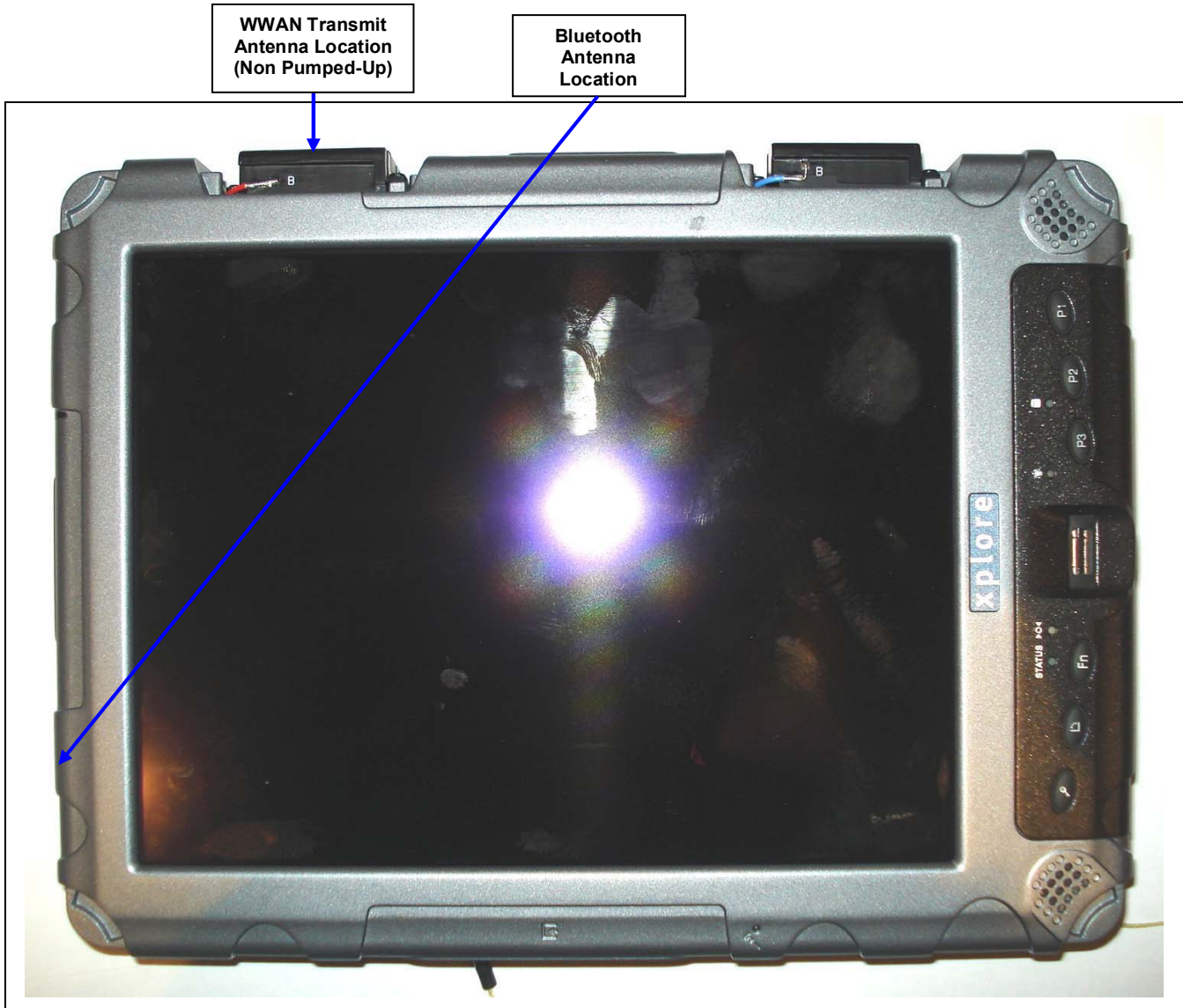
Front Side of Li-ion Battery




Back Side of Li-ion Battery



| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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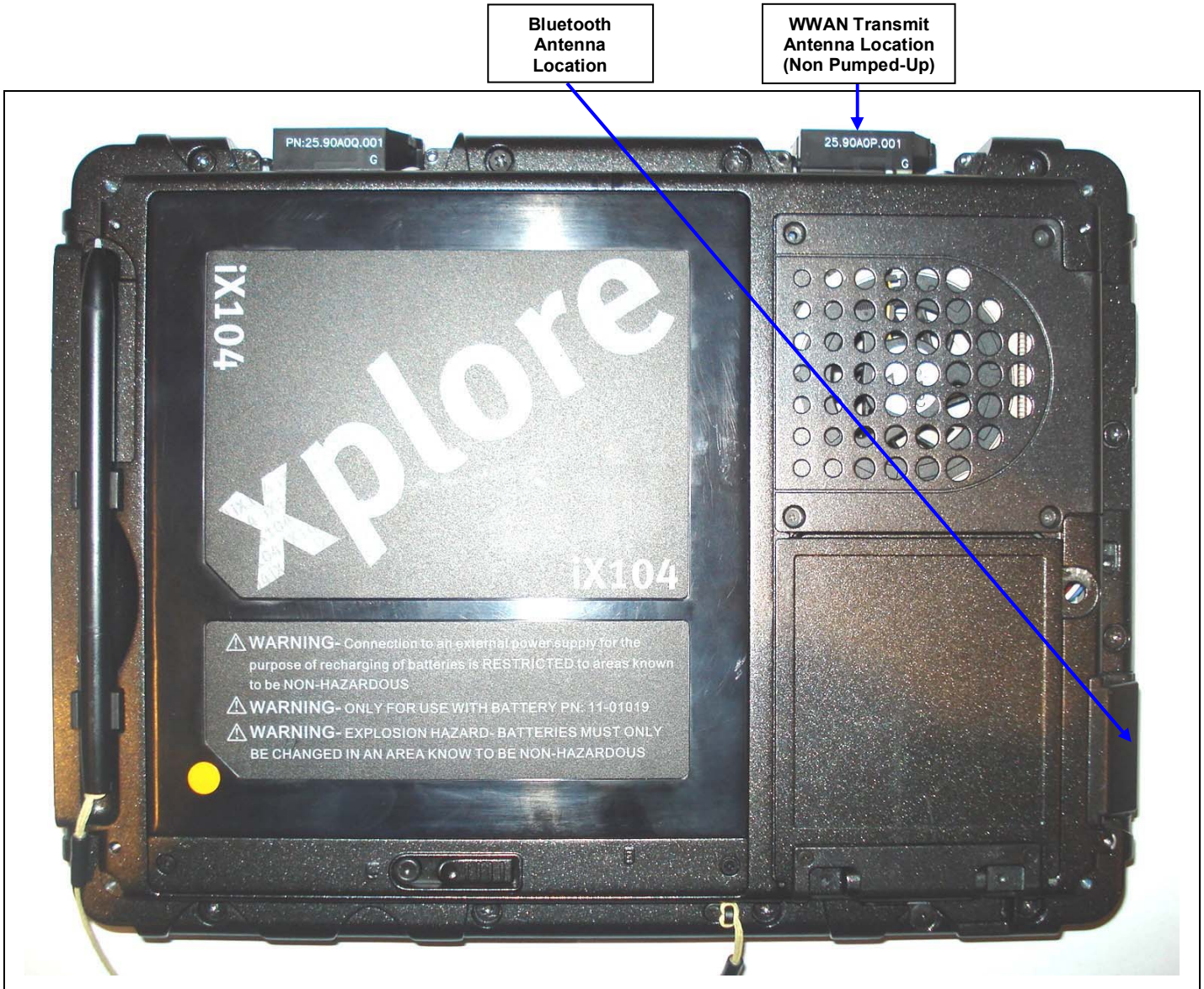
| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |




ANTENNA LOCATION(S) – TOP SIDE OF iX104C5 TABLET PC



| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

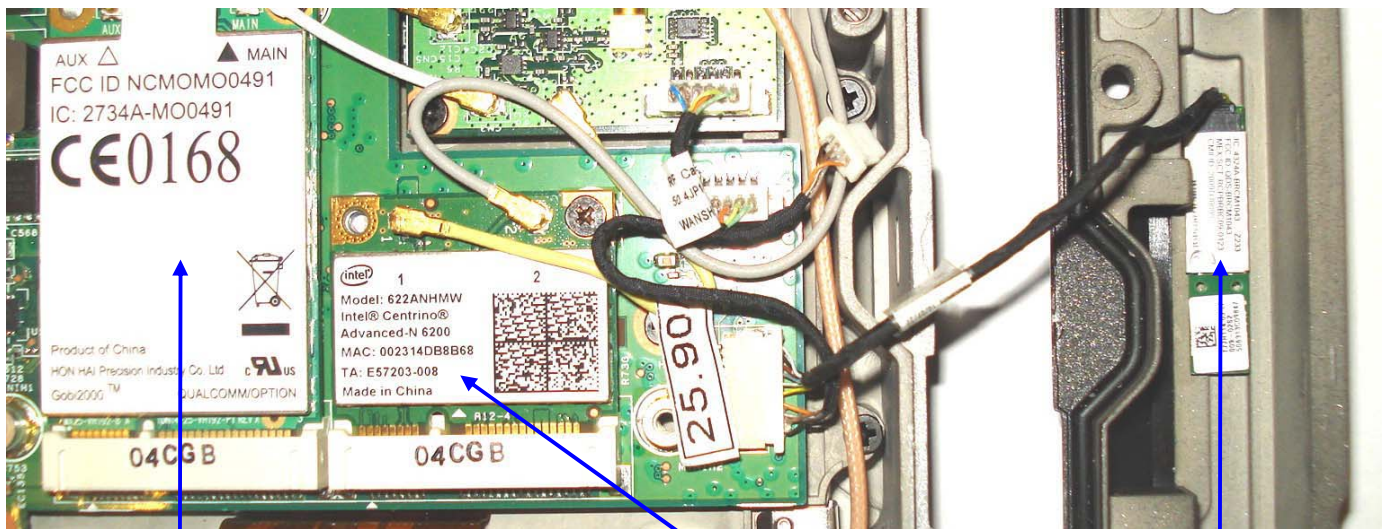


ANTENNA LOCATION(S) – BOTTOM SIDE OF iX104C5 TABLET PC

| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |


Bottom Side view inside Tablet PC





GOBI2000 WWAN Module

622ANHMW WLAN Mini-PCI Express Module

Broadcom BCM92070MD_REF Bluetooth Module

| | | | | | | |
|-------------------------|--|----------------|---------------------|------------|-----------------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOB2K-XPL | IC: | 4596A-GOB2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |





WWAN TRANSMIT ANTENNA ("NON PUMP-UP")




BROADCOM BCM92070MD_REF BLUETOOTH MODULE



| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |




GOBI2000 WWAN Mini-PCI Express Card

| | | | | | | |
|-------------------------|--|----------------|---------------|------------|-----------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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| | | | | |
|--|---|---|---|--|
|  | <u>Date(s) of Evaluation</u> October 15 & 26, 2010 | <u>Test Report Serial No.</u> 092110Q2G-T1048b-S24M | <u>Test Report Revision No.</u> Rev. 1.0 (Initial Release) |  Test Lab Certificate No. 2470.01 |
| | <u>Test Report Issue Date</u> December 19, 2010 | <u>Description of Test(s)</u> Specific Absorption Rate | <u>RF Exposure Category</u> Gen. Pop. / Uncontrolled | |

APPENDIX H - BARSKI PLANAR PHANTOM CERTIFICATE OF CONFORMITY

| | | | | | | |
|-------------------------|--|----------------|----------------------|------------|------------------------|---|
| Applicant: | Xplore Technologies Corp. | FCC ID: | Q2GGOBI2K-XPL | IC: | 4596A-GOBI2KXPL |  |
| DUT Type: | GOBI2000 Mini-PCI Express WWAN Card in iX104C5 Tablet PC with Non Pump-Up Antenna | | | | | |
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2378 Westlake Road
Kelowna, B.C. Canada
V1Z-2V2



Ph. # 250-769-6848
Fax # 250-769-6334
E-mail: barskiind@shaw.ca
Web: www.bcfiberglass.com

FIBERGLASS FABRICATORS

Certificate of Conformity

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

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

Conformity

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

Signature: _____

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

Daniel Chailier



Fiberglass Planar Phantom - Top View



Fiberglass Planar Phantom - Front View



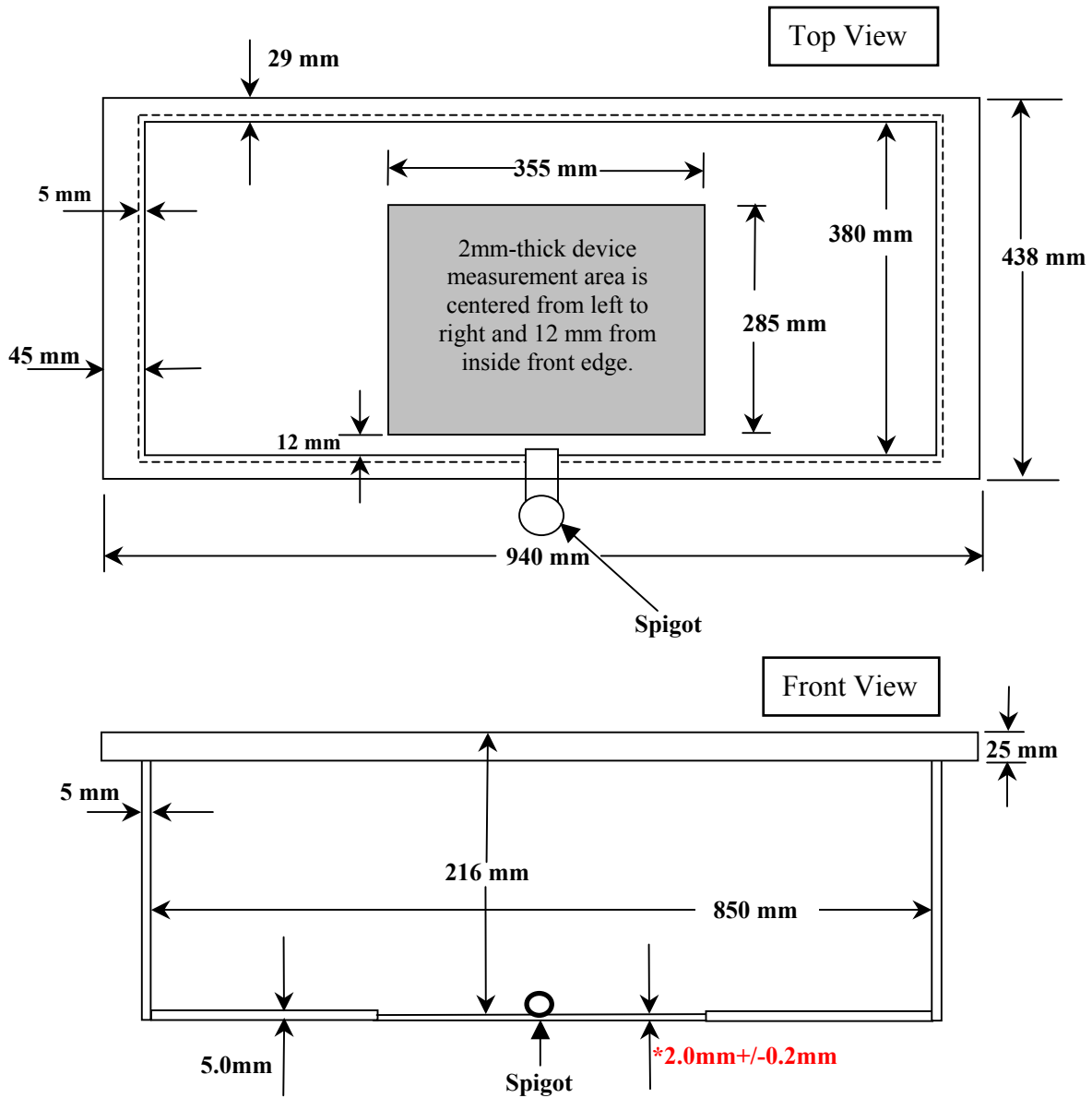
Fiberglass Planar Phantom - Back View



Fiberglass Planar Phantom - Bottom View

Dimensions of Fiberglass Planar Phantom

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



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