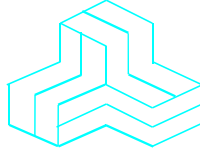


ENGINEERING TEST REPORT



IXM TOUCH 3 FP2 PWB

Model: IXM091PWB

HVIN: IXM091PWB

IC: 10891A-T3ENXP

Applicant:

Invoxium Access Inc.
#300-111 Gordon Baker Road
Toronto, Ontario
Canada M2H 3R1

In Accordance With

ISED, RSS-102, Issue 6
Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus
(All Frequency Bands)

UltraTech's File No.: 26INVX177_ISEDRSS102NS

This Test report is Issued under the Authority of
Tri M. Luu
Vice President of Engineering
UltraTech Group of Labs

Date: March 27, 2026

Report Prepared by: Dan Huynh

Tested by: Angus Au

Issued Date: March 27, 2026

Test Dates: February 9, 2026

- The results in this Test Report apply only to the sample(s) tested, and the sample tested is randomly selected.
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Lab Code: 0685



APEC TEL CA0001



1309



CA 0001/2049



AT-1945



SL2-IN-E-1119R



Korea KCC-RRR
CA0001

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EXHIBIT 1. INTRODUCTION

1.1. SCOPE

Reference:	ISED RSS-102, Issue 6
Title:	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Bands)
Purpose of Test:	Equipment certification for Technical Acceptance Certificate (TAC) under Licence-exempt Radio Apparatus: Category I Equipment
Test Procedures:	▪ RSS-102 ▪ RSS-102.NS.MEAS
Environmental Classification:	☒ Commercial, industrial or business environment ☐ Residential

1.2. RELATED SUBMITTAL(S)/GRANT(S)

None.

1.3. NORMATIVE REFERENCES

Publication	Year	Title
RSS-102, Issue 6	2023	Radio Frequency (RF) Exposure Compliance of Radiocommunication Apparatus (All Frequency Band)
RSS-102.NS.MEAS, Issue 1	2023	Measurement Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102
Notice 2024-DRS004	2024	Guidance on curve-fitting techniques related to measurements associated with nerve stimulation compliance
Notice 2024-DRS0014	2024	Additional guidance on nerve stimulation compliance assessment using curve-fitting techniques

EXHIBIT 2. PERFORMANCE ASSESSMENT

2.1. CLIENT INFORMATION

Applicant	
Name:	Invixium Access Inc.
Address:	#300-111 Gordon Baker Road Toronto, Ontario Canada M2H 3R1

Manufacturer	
Name:	Mara Technologies Inc.
Address:	5680 14th Avenue Markham, Ontario Canada L3S 3K8

2.2. EQUIPMENT UNDER TEST (EUT) INFORMATION

The following information (with the exception of the Date of Receipt) has been supplied by the applicant.

Brand Name:	Invixium Access Inc.
Product Name:	IXM TOUCH 3 FP2 PWB
Model Name or Number:	IXM091PWB
Serial Number:	Test samples
Type of Equipment:	General Field Strength Device
Input Power Supply Type:	DC external power supply / Power over Ethernet (PoE)
Primary User Functions of EUT:	Access Control

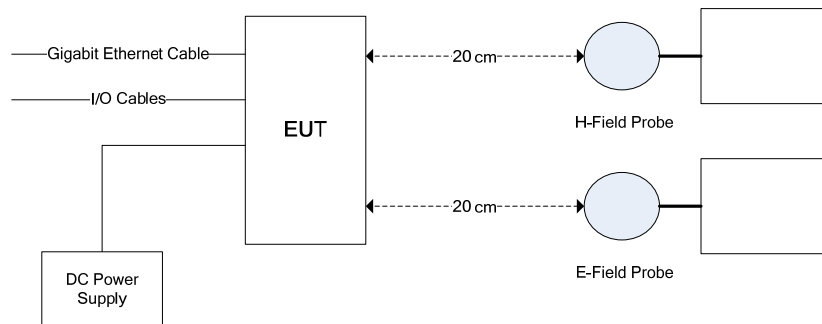
2.3. EUT'S TECHNICAL SPECIFICATIONS

Transmitter	
Equipment Type:	Mobile
Intended Operating Environment:	Commercial, light industry & heavy industry
Power Supply Requirement:	5V, 3.3V DC
RF Output Power Rating:	73.87 dB μ V/m peak at 3m distance
Operating Frequency Range:	121 kHz
Modulation Type:	Load Modulation
Antenna Connector Type:	Integral

2.4. ASSOCIATED ANTENNA DESCRIPTIONS

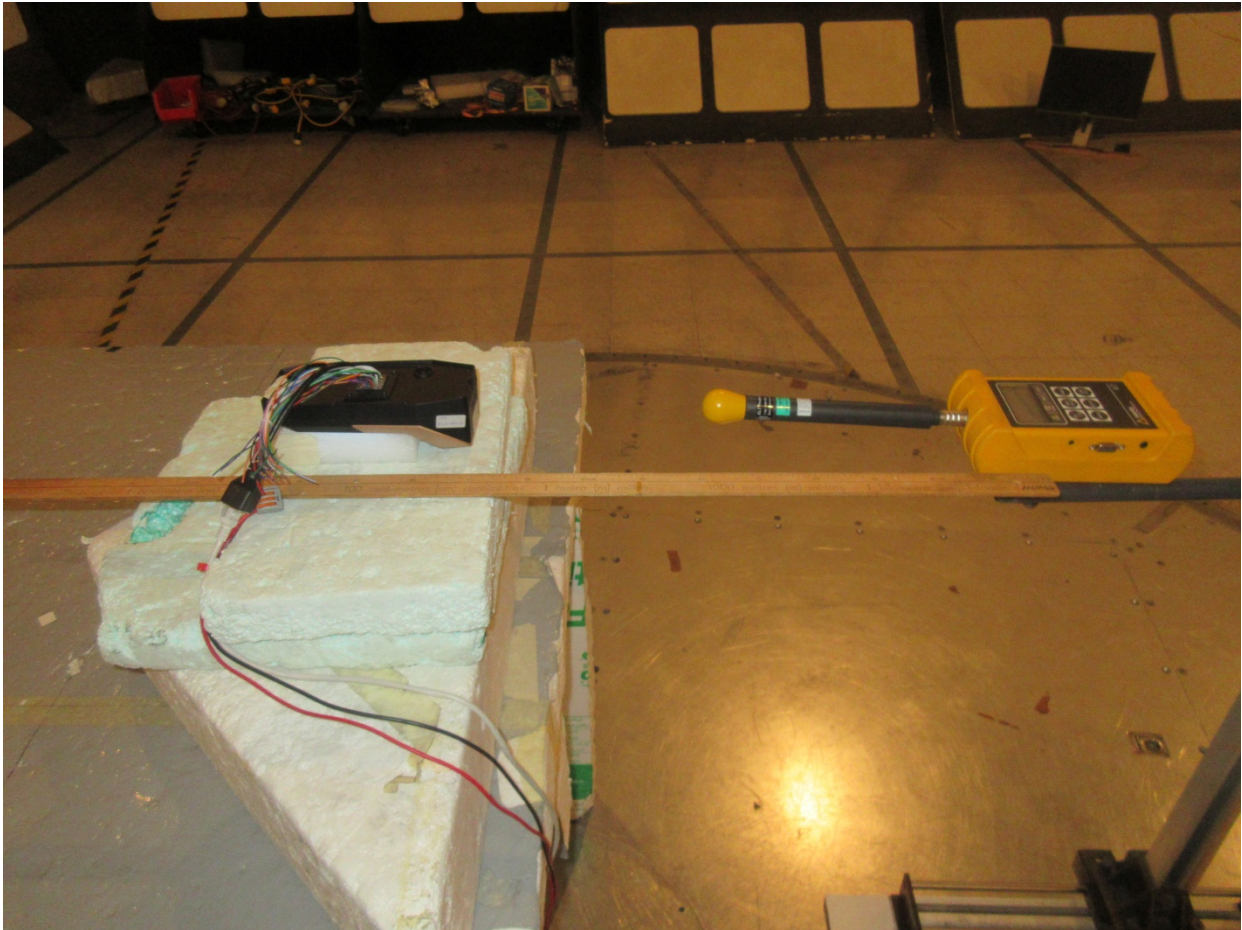
Manufacturer	Antenna Type	Model	Frequency Range	Maximum Gain
Invixium	Wire loop	n/a	125 kHz	n/a

2.5. TEST SETUP BLOCK DIAGRAM



2.6. Test Setup Photos

H-field Highest Exposure Configuration



ULTRATECH GROUP OF LABS

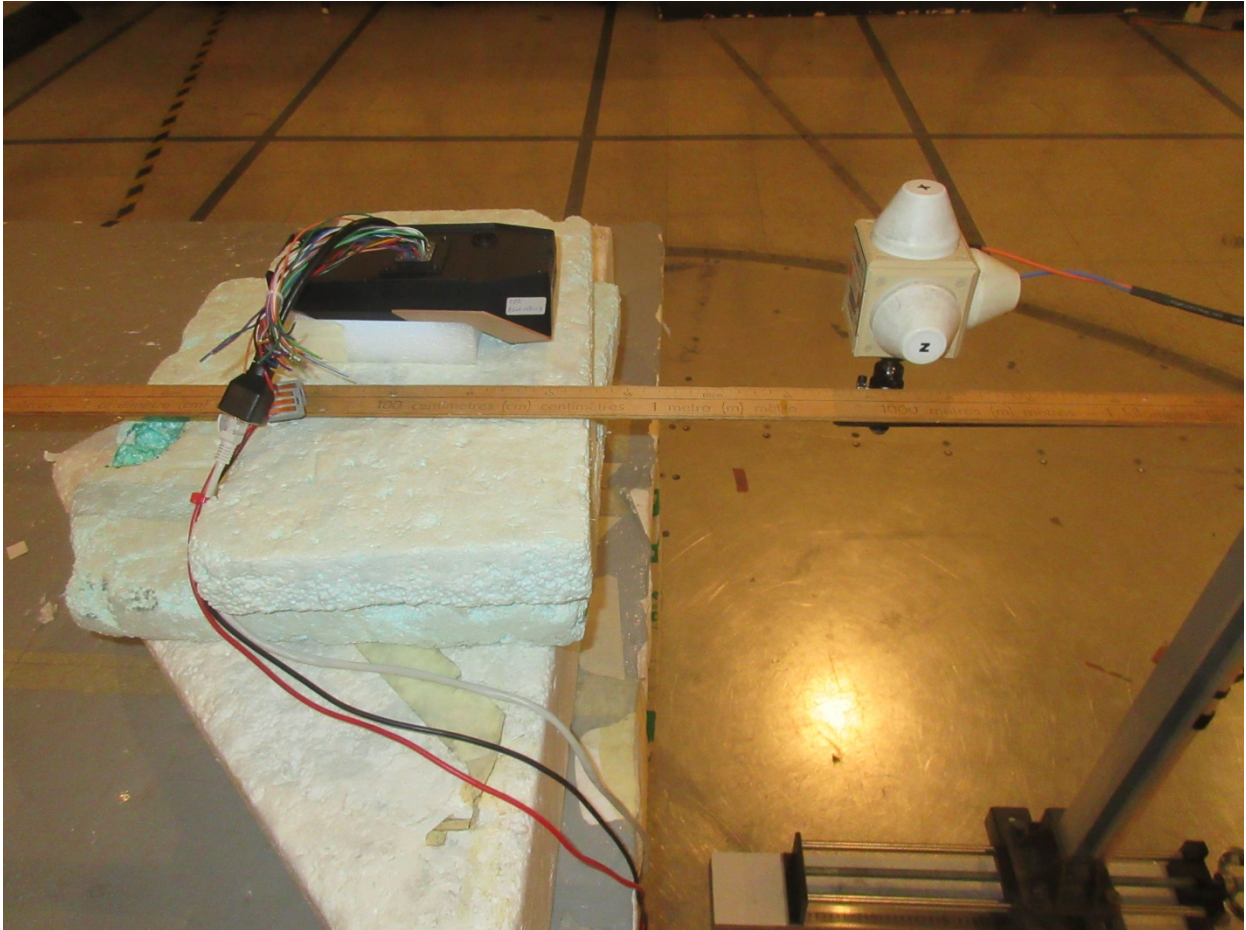
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March 27, 2026

All test results contained in this engineering test report are traceable to National Institute of Standards and Technology (NIST)

E-field Highest Exposure Configuration



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EXHIBIT 3. EUT OPERATING CONDITIONS AND CONFIGURATIONS DURING TESTS

3.1. CLIMATE TEST CONDITIONS

The climate conditions of the test environment are as follows:

Temperature:	21 to 23 °C
Humidity:	45 to 58%
Pressure:	102 kPa
Power input source:	12 VDC

3.2. OPERATIONAL TEST CONDITIONS & ARRANGEMENT FOR TESTS

Operating Modes:	EUT continuously transmits for emissions measurements.
Special Test Software:	N/A
Special Hardware Used:	N/A
Transmitter Test Antenna:	Tx antenna is integral.

Transmitter Test Signals	
Frequency Band(s):	121 kHz
Test Frequency(ies):	121 kHz
RF Power Output:	73.87 dBµV/m peak at 3m distance
Normal Test Modulation:	Load Modulation
Modulating Signal Source:	Internal

EXHIBIT 4. SUMMARY OF TEST RESULTS

4.1. TEST LAB AND LOCATION

Company Name:	Ultratech Engineering labs Inc.	
Address:	3000 Bristol Circle, Oakville, Ontario, Canada, L6H 6G4 Tel.: (905) 829-1570 Fax.: (905) 829-8050 Website: www.ultratech-labs.com ,	
Test Site/Company Number:	FCC	ISED
	MRA: APEC TEL Designation no. CA0001	Company No.2049A CAB Identifier: CA0001

4.2. APPLICABILITY & SUMMARY OF EMC EMISSION TEST RESULTS

ISED Rules	Test Requirements	Compliance (Yes/No)
RSS-Gen, Section 3.4 RSS-102	Radio Frequency Exposure	Yes

4.3. MODIFICATIONS INCORPORATED IN THE EUT FOR COMPLIANCE PURPOSES

None.

EXHIBIT 5. TEST DATA

5.1. EXPOSURE OF HUMANS TO RF FIELD (RSS-Gen, SECTION 3.4 & RSS-102)

5.1.1. Limit

The criteria listed in the following tables shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified in RSS-102

Table 5: Electric field strength reference levels

Frequency range (MHz)	Reference level basis	Reference level (E_{RL}) for uncontrolled environment (V_{RMS}/m)	Reference level (E_{RL}) for controlled environment (V_{RMS}/m)	Reference period
0.003 -10	NS	83	170	Instantaneous
1.10-10	SAR	$87/f^{0.5}$	N/A	6 minutes
1.29-10	SAR	N/A	$193/f^{0.5}$	6 minutes

Note: f is frequency in MHz.

Table 6: Magnetic field strength reference levels

Frequency range (MHz)	Reference level basis	Reference level (H_{RL}) for uncontrolled environment (A_{RMS}/m)	Reference level (H_{RL}) for controlled environment (A_{RMS}/m)	Reference period
0.003-10	NS	90	180	Instantaneous
0.1-10	SAR	$0.73 / f$	$1.6 / f$	6 minutes

Note: f is frequency in MHz.

5.1.2. Method of Measurements

ISED RSS-102.NS.MEAS, Issue 1, Measurement Procedure for Assessing Nerve Stimulation (NS) Compliance in Accordance with RSS-102

All faces of the EUT were scanned using the E and H field probes to find the maximum field strength (MFS) values for both the E and H fields.

5.1.3. Test Data

Remarks:

- Measurement Distance: 20 cm, manufacturer's declared separation distance obtained via the information in the user manual.
- Maximum Field Strength Location: Bottom side of EUT for H-field and E-field.
- The following test results represent the worst-case

H-field measurement at 20 cm measurement distance				
Frequency (kHz)	Measured H-Field (A/m)	Limit (A/m)	Margin (A/m)	Verdict
121	0.2784	90	-89.72	Compliant

E-field measurement at 20 cm measurement distance				
Frequency (kHz)	Measured E-Field (V/m)	Limit (V/m)	Margin (V/m)	Verdict
121	1.520	83	-81.48	Compliant

EXHIBIT 6. TEST EQUIPMENT LIST

Test Instruments	Manufacturer	Model No.	Serial No.	Frequency Range	Cal. Due Date
Probe	Narda	2304/03	L-0009	1Hz – 400kHz	18 Aug 2028
Exposure Level Tester	Narda	2300/90.10	L-0015	-	18 Aug 2028
Isotropic Electric Field Probe	Amplifier Research	FP4000	24747	10kHz-1GHz	15 Aug 2027

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EXHIBIT 7. MEASUREMENT UNCERTAINTY

The measurement uncertainties stated were calculated in accordance with the requirements of CISPR 16-4-2 @ IEC:2003 and JCGM 100:2008 (GUM 1995) – Guide to the Expression of Uncertainty in Measurement.

7.1.1. Near Field Strength Measurement Uncertainty

	Radiated Field Strength Emission Measurement Uncertainty (1Hz-400kHz):	Measured (dB)	Limit (dB)
u_c	Combined standard uncertainty: $u_c(y) = \sqrt{\sum_{i=1}^m u_i^2(y)}$	± 2.09	± 2.6
U	Expanded uncertainty U: $U = 2u_c(y)$	± 4.18	± 5.2

	Radiated Field Strength Emission Measurement Uncertainty (10kHz-1000 MHz):	Measured (dB)	Limit (dB)
u_c	Combined standard uncertainty: $u_c(y) = \sqrt{\sum_{i=1}^m u_i^2(y)}$	± 2.08	± 2.6
U	Expanded uncertainty U: $U = 2u_c(y)$	± 4.16	± 5.2