
FCC Test Report

Report No.: AGC01211011SZ08F1

FCC ID : YHGV-ME900
PRODUCT DESIGNATION : Mini PCI Express EVDO Rev.A Card
BRAND NAME : Olive
TEST MODEL : V-ME900
CLIENT : OLIVE TELECOM(HK)LIMITED
DATE OF ISSUE : Nov.29, 2010
STANDARD(S) : FCC Part 15 Rules

Attestation of **Global Compliance Co., Ltd.**

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1. VERIFICATION OF COMPLIANCE

Product Designation Mini PCI Express EVDO Rev. A Card

Brand Name: Olive

Model Name: V-ME900

Applicant: OLIVE TELECOM(HK)LIMITED
UNIT 3201 A 32/F CITY CORP CENTER 18 WHITFIELD ROAD

Manufacturer: Q-Innovations Private Limited
862,Udyog Vihar,Phase V,Gurgaon,India-122016

Type of Test: FCC Class B

Measurement Procedure: ANSI C63.4: 2003

File Number: AGC01211011SZ08F1

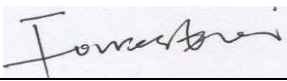
Date of test: Nov.26 ~Nov.27 ,2010

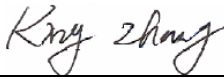
Deviation: None

Condition of Test Sample: Normal

The above equipment was tested by Attestation of Global Compliance Co., Ltd. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, the measurement procedure according to ANSI C63.4:2003 This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

The test results of this report relate only to the tested sample identified in this report.

Checked By:  _____
Forrest Lei Nov.29, 2010

Authorized By  _____
King Zhang Nov.29, 2010

2. PRODUCT INFORMATION

Housing Type:

N/A

EUT Rating Voltage:

DC 5V by USB

I/O Ports of EUT

I/O Port Type	Q'TY	Cable	Tested with
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3. TEST FACILITY

Facility	Attestation of Global Compliance Co., Ltd.
Location:	1F, No.2 Building, Huafeng No.1 Technical,Industrial Park, Sanwei, Xixiang, Baoan District,Shenzhen,China
Description:	The test site is constructed and calibrated to meet the FCC requirements in documents ANSI C63.4: 2003
Site Filing:	The FCC Registration Number is 259865 The IC Number is 9083A
Instrument Tolerance:	All measuring equipment is in accord with ANSI C63.4 requirements that meet industry regulatory agency and accreditation agency requirement.

4. TEST EQUIPMENT LIST

Equipment used during the tests:

Description	Manufacturer	Model	Identifier	Cal. Date	Cal. Due
Spectrum Analyzer	Agilent	E4440A	N/A	06/29/2010	06/28/2011
Test Receiver	R&S	ESCI	N/A	06/29/2010	06/28/2011
ANTENNA	A.H.	SAS-521-4	N/A	06/29/2010	06/28/2011
Multi_device Controller	ETS	2090	N/A	06/29/2010	06/28/2011

The calibrations of the measuring instruments, including any accessories that may effect such calibration, are checked frequently to assure their accuracy. Adjustments are made and correction factors applied in accordance with instructions contained in the manual for the measuring instrument.

5. SUPPORT EQUIPMENT LIST

Device Type	Manufacturer	Model Name	Serial No.	Data Cable	Power Cable
Notebook	IBM	IE3	S1005U13	N/A	1.6m unshielded

***Note: All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.*

Grounding: Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

6. SYSTEM DESCRIPTION

EUT test procedure:

1. Connect EUT and peripheral devices (if need).
2. Power on the EUT, running applicable software.
4. Make sure the EUT operates GPS(1575.42MHZ) mode during the test.

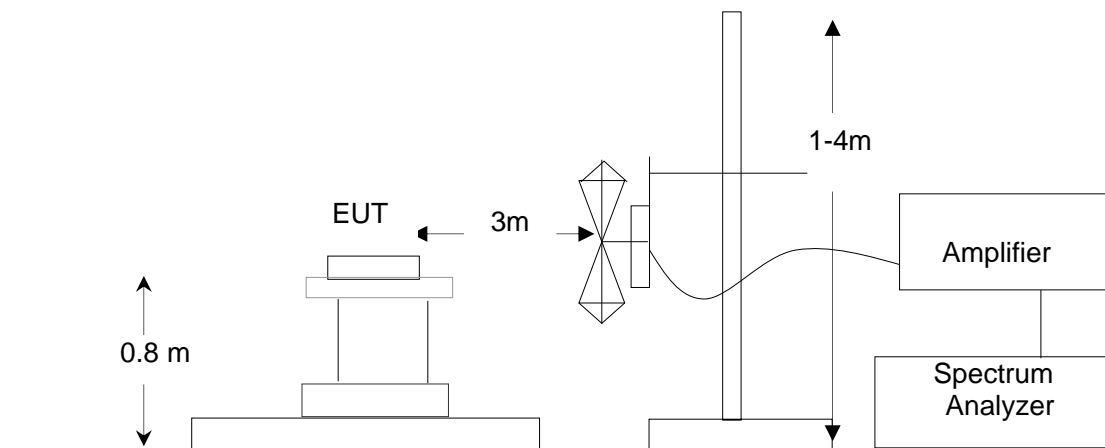
8. FCC RADIATED EMISSION TEST

8.1 LIMITS OF RADIATED EMISSION TEST

Frequency (MHz)	Distance (m)	Maximum Field Strength Limit (dBuV/m/ Q.P.)
30~88	3	40.0
88~216	3	43.5
216~960	3	46.0
Above 960	3	54.0

**Note: The lower limit shall apply at the transition frequency.

8.2 BLOCK DIAGRAM OF RADIATED EMISSION TEST



8.3 PRELIMINARY PROCEDURE OF RADIATED EMISSION TEST

- 1) The equipment was set up as per the test configuration to simulate typical actual usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- 2) Support equipment, if needed, was placed as per ANSI C63.4.
- 3) All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- 4) All support equipments received AC 120V/60Hz power from socket under the turntable, if any.
- 5) The antenna was placed at 3 meter away from the EUT as stated in FCC Part 15. The antenna connected to the Analyzer via a cable and at times a pre-amplifier would be used.
- 6) The Analyzer / Receiver quickly scanned from 30MHz to 1000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- 7) The following test mode(s) were scanned during the preliminary test:

Preliminary Radiated Emission Test				
Frequency Range Investigated			30 MHz TO 1000 MHz	
Mode of operation	Date of test	Report No.	Data#	Worst Mode
GPS	11/26/2010	AGC01211011SZ08F1	V-ME900-0(H,V)	<input checked="" type="checkbox"/>

Then, the EUT and cable(s) configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for final testing.

8.4 FINAL PROCEDURE OF RADIATED EMISSION TEST

EUT and support equipment were set up on the turntable as per step 7 of the preliminary test.

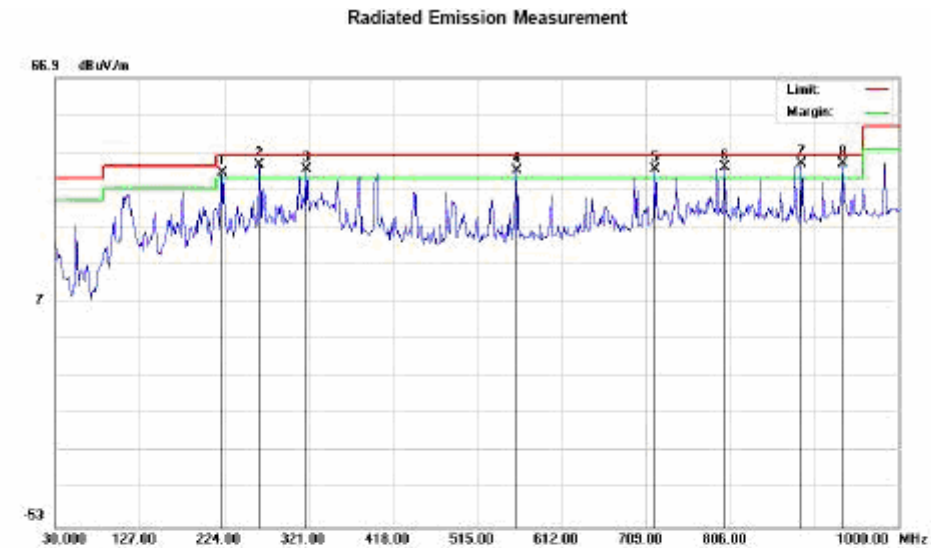
The Analyzer / Receiver scanned from 30MHz to 1000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.

Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and Q.P/Peak. reading is presented.

The test data of the worst case condition(s) was reported on the Summary Data page.

8.5 TEST RESULT OF RADIATED EMISSION TEST

USB RESULT OF RADIATED EMISSION AT-HORIZONTAL



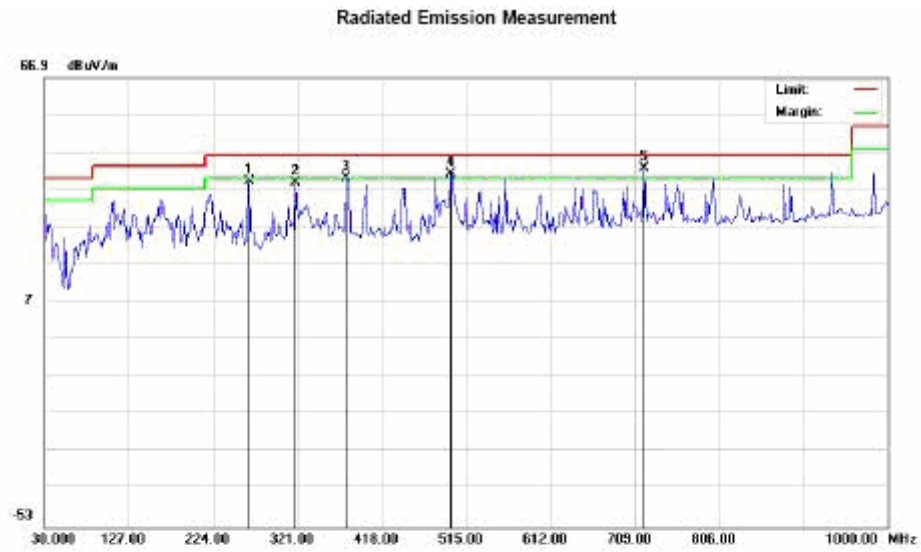
Site: site #1
Limit: FCC Class B 3M Radiation
EUT:
M/N:
Mode: GPS
Note:

Polarization: **Horizontal**
Power:
Distance: 3m

Temperature: 26
Humidity: 80 %

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1	!	222.3833	26.95	14.55	41.50	46.00	-4.50	peak			
2	!	264.4167	26.47	17.21	43.68	46.00	-2.32	QP			
3	!	319.3833	24.34	18.01	42.35	46.00	-3.65	QP			
4	!	560.2667	18.10	24.20	42.30	46.00	-3.70	peak			
5	!	720.3167	16.35	26.16	42.51	46.00	-3.49	peak			
6	!	799.5333	15.15	28.04	43.19	46.00	-2.81	QP			
7	!	888.4500	14.83	29.00	43.83	46.00	-2.17	QP			
8	*	935.3333	13.73	30.18	43.91	46.00	-2.09	QP			

USB RESULT OF RADIATED EMISSION-VERTICAL



Site: site #1	Polarization: Vertical	Temperature: 26
Limit: FCC Class B 3M Radiation	Power:	Humidity: 60 %
EUT:	Distance: 3m	
M/N:		
Mode: GPS		
Note:		

No.	Mk	Freq.	Reading	Factor	Measurement	Limit	Over	Detector	Antenna Height	Table Degree	Comment
		MHz	dBuV	dB/m	dBuV/m	dBuV/m	dB		cm	degree	
1		266.0333	21.94	17.20	39.14	46.00	-6.86	peak			
2		319.3833	20.97	18.01	38.98	46.00	-7.02	peak			
3		377.5833	20.52	19.40	39.92	46.00	-6.08	peak			
4	!	497.2167	18.56	22.82	41.38	46.00	-4.62	QP			
5	*	720.3167	16.62	26.16	42.78	46.00	-3.22	QP			

APPENDIX 1

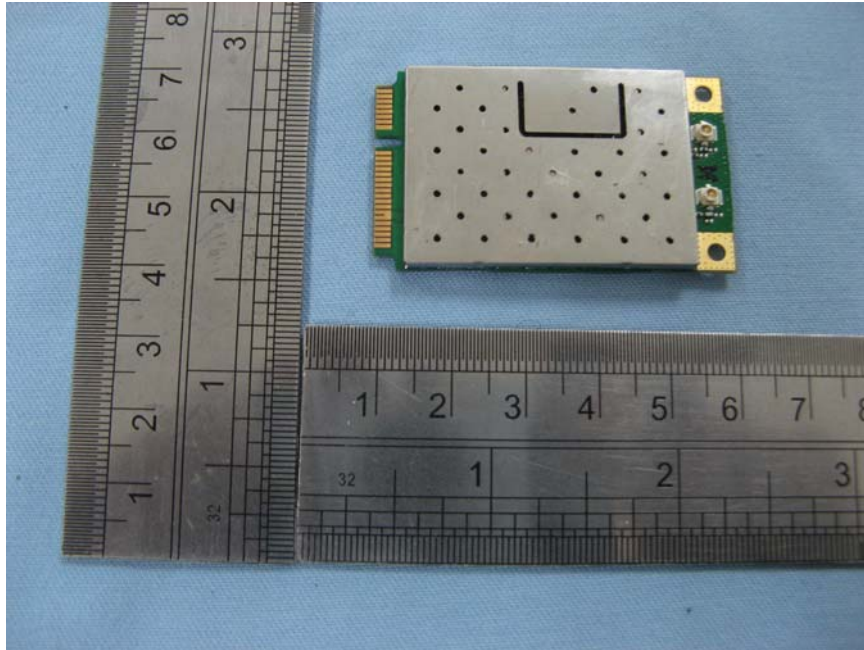
PHOTOGRAPHS OF TEST SETUP

TEST SETUP OF RADIATED EMISSION

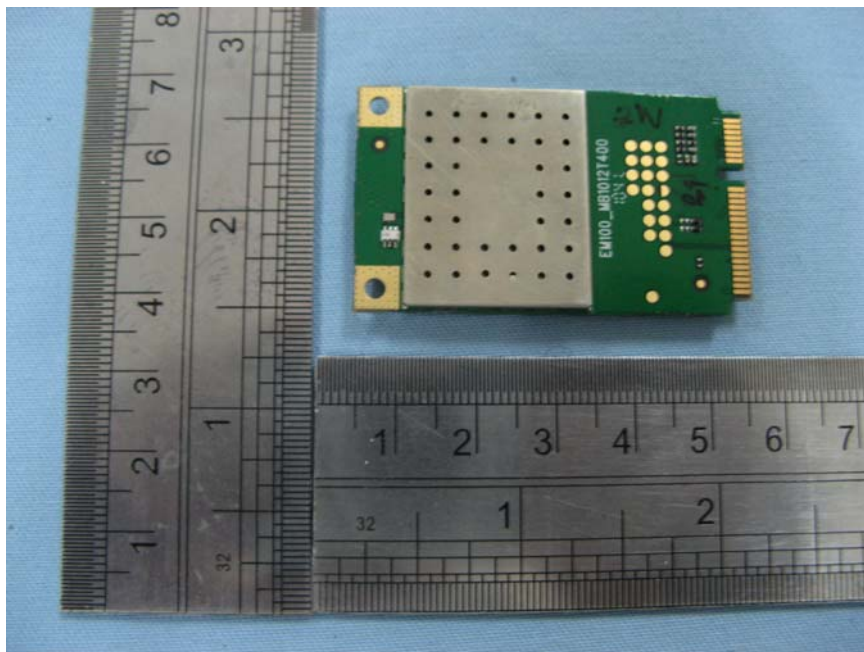


APPENDIX 2 PHOTOGRAPHS OF EUT

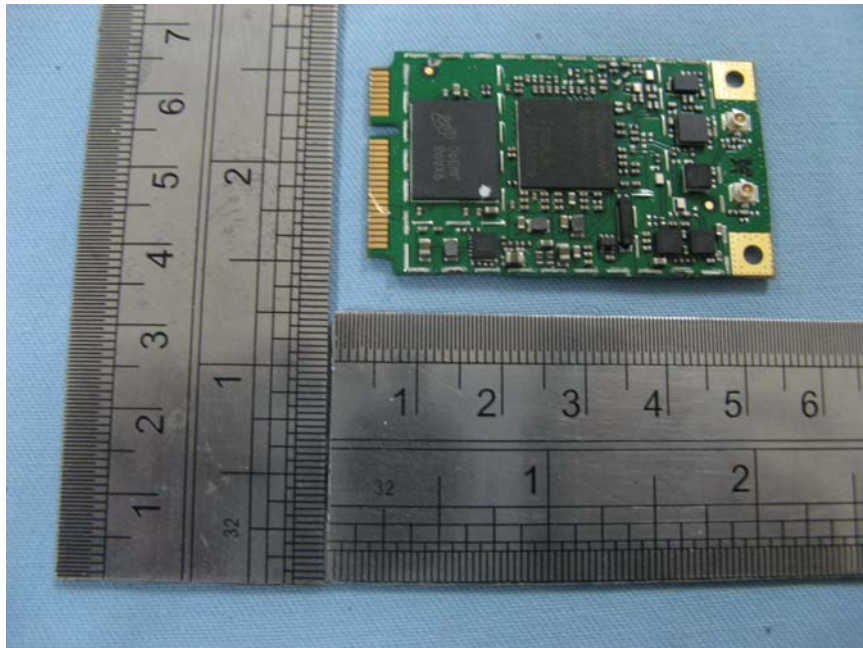
FRONT VIEW OF EUT



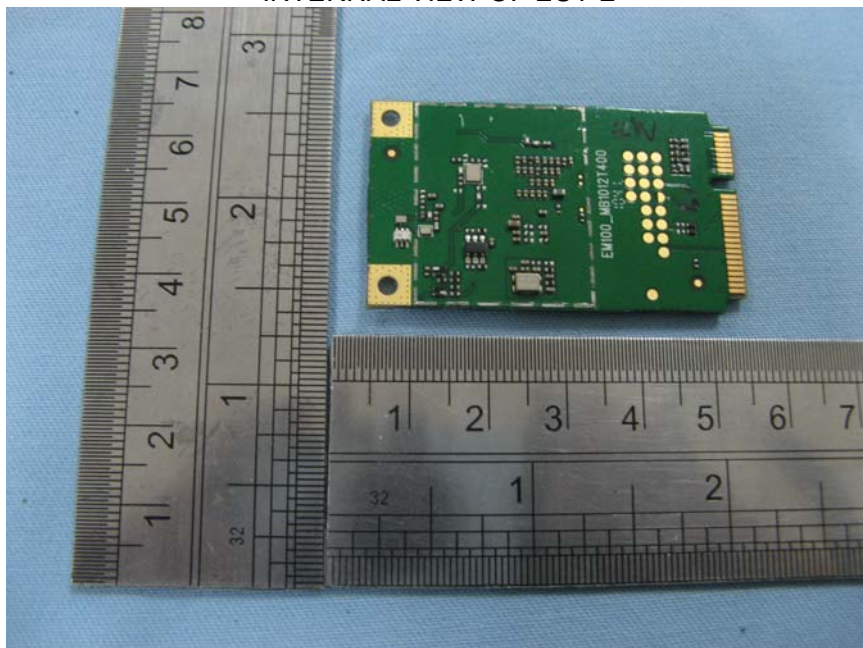
BACK VIEW OF EUT



INTERNAL VIEW OF EUT-1



INTERNAL VIEW OF EUT-2



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