

**DIGITAL EMC CO., LTD.**

683-3, Yubang-Dong, Yongin-Si, Kyunggi-Do, Korea. 449-080

Tel: +82-31-321-2664 Fax: +82-31-321-1664

<http://www.digitalemccom>**CERTIFICATION OF COMPLIANCE****CERTIFICATE OF COMPLIANCE  
FCC Part 22 Certification**

Dates of Tests: November 12 ~ 19, 2009

Test Report S/N: DR50110911X

Test Site : DIGITAL EMC CO., LTD.

Model No.

**R2NSEC-8380**

APPLICANT

**EpiValley Co., Ltd.**

<b>Classification</b>	<b>:</b>	<b>Licensed Non-Broadcast Station Transmitter (TNB)</b>
<b>FCC Rule Part(s)</b>	<b>:</b>	<b>§22(H), §2</b>
<b>EUT Type</b>	<b>:</b>	<b>CDMA 1x EV-DO USB Modem</b>
<b>Model name</b>	<b>:</b>	<b>SEC-8380</b>
<b>Serial number</b>	<b>:</b>	<b>Identical prototype</b>
<b>TX Frequency Range</b>	<b>:</b>	<b>824.70 ~848.31 MHz</b>
<b>RX Frequency Range</b>	<b>:</b>	<b>869.70 ~893.31 MHz</b>
<b>Max. RF Output Power</b>	<b>:</b>	<b>0.378 W ERP(25.77 dBm)</b>
<b>Emission Designators:</b>	<b>:</b>	<b>1M29F9W</b>
<b>Date of Issue</b>	<b>:</b>	<b>November 23, 2009</b>

***The Test results relate only to the tested sample. It is not allowed to copy this report even partly without the allowance of DIGITAL EMC CO., LTD.***

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## TABLE OF CONTENTS

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◆ AUTHORIZATION LETTER	
◆ CONFIDENTIALITY LETTER(S)	
◆ TEST REPORT	
1.1 SCOPE	3
2.1 GENERAL INFORMATION	4
3.1 DESCRIPTION OF TESTS	5
4.1 TEST DATA	8
4.1.1 CONDUCTED OUTPUT POWER	8
4.1.2 EFFECTIVE RADIATED POWER OUTPUT	9
4.1.3 CDMA RADIATED MEASUREMENTS	10
4.1.4 FREQUENCY STABILITY(CDAM)	13
5.1 PLOTS OF EMISSIONS	15
6.1 LIST OF TEST EQUIPMENT	16
7.1 SAMPLE CALCULATIONS	18
8.1 CONCLUSION	19
◆ TEST PLOTS	
◆ FCC ID LABEL & LOCATION	
◆ TEST SETUP PHOTOGRAPHS	
◆ EXTERNAL PHOTOGRAPHS	
◆ INTERNAL PHOTOGRAPHS	
◆ BLOCK DIAGRAM(S)	
◆ SCHEMATIC DIAGRAM(S)	
◆ OPERATIONAL DESCRIPTION	
◆ PARTS LIST	
◆ PARTS LOCATION	
◆ USER'S MANUAL	

## MEASUREMENT REPORT

### 1.1 Scope

Measurement and determination of electromagnetic emissions (EME) of radio frequency devices including intentional and/or unintentional radiators for compliance with the technical rules and regulations of the Federal Communications Commission.

### §2.1033 General Information

**Applicant:** EpiValley Co., Ltd.  
**Address:** Lordland EZ Tower #511, 513, Gumi-dong, Bundang-Gu,  
Sungnam-City, Kyunggi-Do, Korea  
**Attention:** Woo Won Choung

- |                          |  |
|--------------------------|--|
| ● FCC ID:                | R2NSEC-8380                                      |
| ● Quantity:              | Quantity production is planned                   |
| ● Emission Designators:  | 1M29F9W  |
| ● Tx Freq. Range:        | 824.70 ~ 848.31 MHz                              |
| ● Rx Freq. Range:        | 869.70 ~ 893.31 MHz                              |
| ● Max. Power Rating:     | 0.378 W ERP(25.77 dBm)                           |
| ● FCC Classification(s): | Licensed Non-Broadcast Station Transmitter (TNB) |
| ● Equipment (EUT) Type:  | CDMA 1x EV-DO USB Modem                          |
| ● Frequency Tolerance:   | ± 0.00025 % (2.5ppm)                             |
| ● FCC Rule Part(s):      | §22(H), §2                                       |
| ● Dates of Tests:        | November 12 ~ 19, 2009                           |
| ● Place of Tests:        | DIGITAL EMC                                      |
| ● Test Report S/N:       | DR50110911X                                      |

## 2.1. General Information

This report contains the result of tests performed by:

DIGITAL EMC CO., LTD.

Address : 683-3, Yubang-Dong, Yongin-Si, Kyunggi-Do, Korea. 449-080

<http://www.digitalemcc.com> E-mail: [harveysung@digitalemcc.com](mailto:harveysung@digitalemcc.com)

Tel: +82-31-321-2664 Fax: +82-31-321-1664

Quality control in the testing laboratory is implemented as per ISO/IEC 17025 which is the "General requirements for the competents of calibration and testing laboratory".

**Tested by:** *Engineer*

November 23, 2009 Sun-Kyu Ryu



Date

Name

Signature

**Reviewed by:** *Manager*

November 23, 2009 W.J. Lee



Date

Name

Signature

**Applicant:**

Company name : EpiValley Co., Ltd.

Address : Lordland EZ Tower #511, 513, Gumi-dong, Bundang-Gu, Sungnam City, Kyunggi-Do, Korea

Date of order : October 26, 2009

## **3.1 DESCRIPTION OF TESTS**

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### **3.1.1 Occupied Bandwidth Emission Limits**

- (a) On any frequency outside a licensee's frequency block, the power of any emission shall be attenuated below the transmitter power (P) by at least  $43 + 10 \log(P)$  dB.
- (b) When measuring the emission limits, the nominal carrier frequency shall be adjusted as close to the licensee's frequency block edges, both upper and lower, as the design permits.
- (c) The measurement of emission power can be expressed in peak or average values, provided they are expressed in the same parameters as the transmitter power.

### **3.1.2 Occupied Bandwidth**

The 99% power bandwidth was measured with a calibrated spectrum analyzer.

### **3.1.3 Spurious and Harmonic Emissions at Antenna Terminal**

The level of the carrier and the various conducted spurious and harmonic frequencies is measured by means of a calibrated spectrum analyzer. The spectrum is scanned from the lowest frequency generated in the equipment up to a frequency including its 10<sup>th</sup> harmonic.

### **3.1.5 Radiation Spurious and Harmonic Emissions**

Radiation and harmonic emissions are measured outdoors at our 3-meter test range. The equipment under test is placed on a wooden turntable 3-meters from the receive antenna. The receive antenna height and turntable rotations were adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator with the level of the signal generator being adjusted to obtain the same receive spectrum analyzer reading. This level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

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## 3.1 DESCRIPTION OF TESTS

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(Continued...)

### **3.1.6 Frequency Stability/Temperature Variation.**

The frequency stability of the transmitter is measured by:

- a) **Temperature:** The temperature is varied from -30°C to +60°C increments using an environmental chamber.
- b) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the normal voltage for non hand-carried battery equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

***Specification** - The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within  $\pm 0.00025$  ( $\pm 2.5$ ppm) of the center frequency.*

#### **Time Period and Procedure:**

1. The carrier frequency of the transmitter is measured at room temperature (25°C to 27 °C to provide a reference)
2. The equipment is tuned on in a “standby” condition for one minute before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
3. Frequency measurements are made at 10°C intervals ranging from -30°C up to +60°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

## 3.1 DESCRIPTION OF TESTS

(Continued...)

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### **3.1.7 Radiated Emission**

Final test was performed according to ANSI C63.4-2003 at the open field test site. There are no deviations from the standard.

The EUT was placed in a 0.8m high table along with the peripherals. The turn table was separated from the antenna distance 3meters. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for maximum.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Reported are maximized emission levels.

These tests were performed at 120kHz of 6dB bandwidth.

### **3.1.8 Conducted Emission**

The power line conducted interference measurements were performed according to ANSI C63.4-2003 in a shielded enclosure with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded enclosure wall. There are no deviations from the standard.

The EUT was plugged into the LISN and the frequency range of interest scanned.

Reported are maximized emission levels.

These tests were performed at 9kHz of 6dB bandwidth.

## 4.1 TEST DATA

### 4.1.1 Conducted Output Power

The output power was measured under all R.C.s and S.O.s which are listed below measurement data.

The worst case output power is reported with SO55 of RC3.

Therefore this device was tested under SO55 of RC3.

- Measurement data

Band	Channel	1X RRT					EvDo (Rev.0)		EvDo (Rev.A)	
		RC1	RC1	RC3	RC3	RC3	FTAP	RTAP	FETAP	RETAP
		SO2	SO55	SO2	SO55	SO32 (TDSO)				
Cellular	1013	23.18	23.17	23.22	<b>23.27</b>	23.20	23.14	23.27	23.09	23.08
	0384	23.21	23.19	23.21	<b>23.23</b>	23.20	23.18	23.22	23.17	23.14
	0777	22.80	22.81	22.82	<b>22.84</b>	22.78	22.79	22.82	22.77	22.71



## **4.1.2 Effective Radiated Power Output**

### **A. POWER: High (Cellular Mode)**

<b>Freq. Tuned (MHz)</b>	<b>REF. LEVEL (dBm)</b>	<b>POL (H/V)</b>	<b>ERP (W)</b>	<b>ERP (dBm)</b>	<b>Supplied Power</b>	<b>Note</b>
<b>824.70</b>	<b>-11.34</b>	<b>H</b>	<b>0.378</b>	<b>25.77</b>	<b>USB</b>	<b>RC3 SO55</b>
836.52	-12.06	H	0.360	25.56	USB	RC3 SO55
848.31	-13.88	H	0.317	25.01	USB	RC3 SO55

### **NOTES:**

Effective Radiated Power Output Measurements by Substitution Method  
according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. The conducted power at the terminals of the dipole is measured. The ERP is recorded.

### 4.1.3 CDMA Radiated Measurements

#### Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 824.70 MHz  
 CHANNEL : 1013(Low)  
 MEASURED OUTPUT POWER : 25.77 dBm = 0.378 W  
 MODULATION SIGNAL : CDMA (Internal)  
 DISTANCE : 3 meters  
 LIMIT :  $43 + 10 \log_{10} (W) = 38.77$  dBc

Freq. (MHz)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1649.40	-32.98	7.78	-27.35	H	53.12
1649.40	-32.05	7.78	-26.42	V	52.19
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

#### **NOTE**

Radiated Spurious Emission Measurements by Substitution Method  
according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

## 4.1.3 CDMA Radiated Measurements

(Continued...)

Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 836.52 MHz  
 CHANNEL : 384(Mid)  
 MEASURED OUTPUT POWER : 25.56 dBm = 0.360 W  
 MODULATION SIGNAL : CDMA (Internal)  
 DISTANCE : 3 meters  
 LIMIT :  $43 + 10 \log_{10} (W) =$  38.56 dBc

Freq. (MHz)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1673.04	-41.08	7.84	-35.39	H	60.95
1673.04	-40.98	7.84	-35.29	V	60.85
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

**NOTE**

Radiated Spurious Emission Measurements by Substitution Method  
according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

### 4.1.3 CDMA Radiated Measurements

(Continued...)

#### Field Strength of SPURIOUS Radiation

OPERATING FREQUENCY : 848.31 MHz  
 CHANNEL : 777(High)  
 MEASURED OUTPUT POWER : 25.01 dBm = 0.317 W  
 MODULATION SIGNAL : CDMA (Internal)  
 DISTANCE : 3 meters  
 LIMIT :  $43 + 10 \log_{10} (W) = 38.01$  dBc

Freq. (MHz)	LEVEL@ ANTENNA TERMINALS (dBm)	SUBSTITUTE ANTENNA GAIN (dBd)	CORRECT GENERATOR LEVEL (dBm)	POL (H/V)	(dBc)
1696.62	-46.81	7.90	-41.06	H	66.07
1696.62	-46.11	7.90	-40.36	V	65.37
-	-	-	-	-	-
-	-	-	-	-	-
-	-	-	-	-	-

#### **NOTE**

Radiated Spurious Emission Measurements by Substitution Method  
according to ANSI/TIA/EIA-603-C-2004, Aug. 17, 2004:

The EUT was placed on a wooden turn table 3-meters from the receive antenna. The receive antenna height and turntable rotation was adjusted for the highest reading on the receive spectrum analyzer. A half-wave dipole was substituted in place of the EUT. This dipole antenna was driven by a signal generator and the level of the signal generator was adjusted to obtain the same receive spectrum analyzer reading. This spurious level is recorded. For readings above 1GHz, the above procedure is repeated using horn antennas and the difference between the gain of the horn and an isotropic or dipole antenna are taken into consideration.

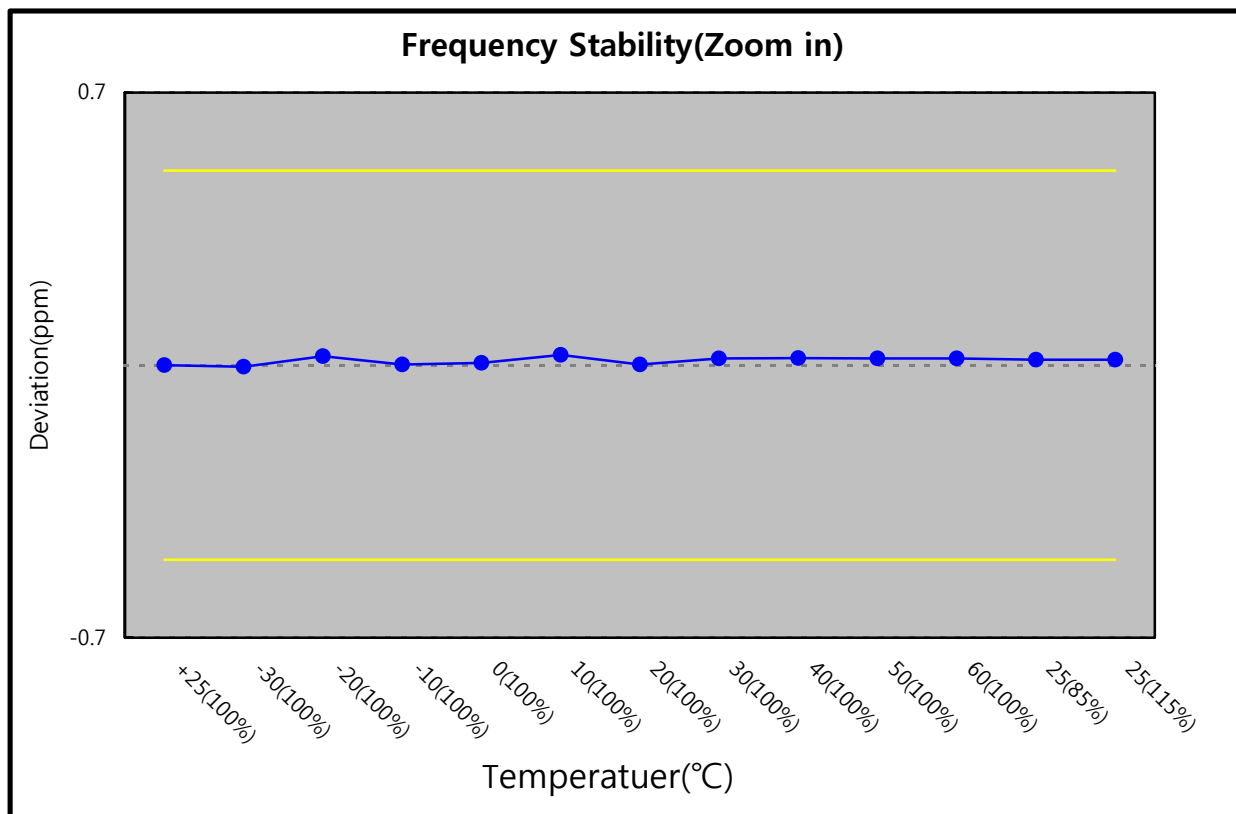
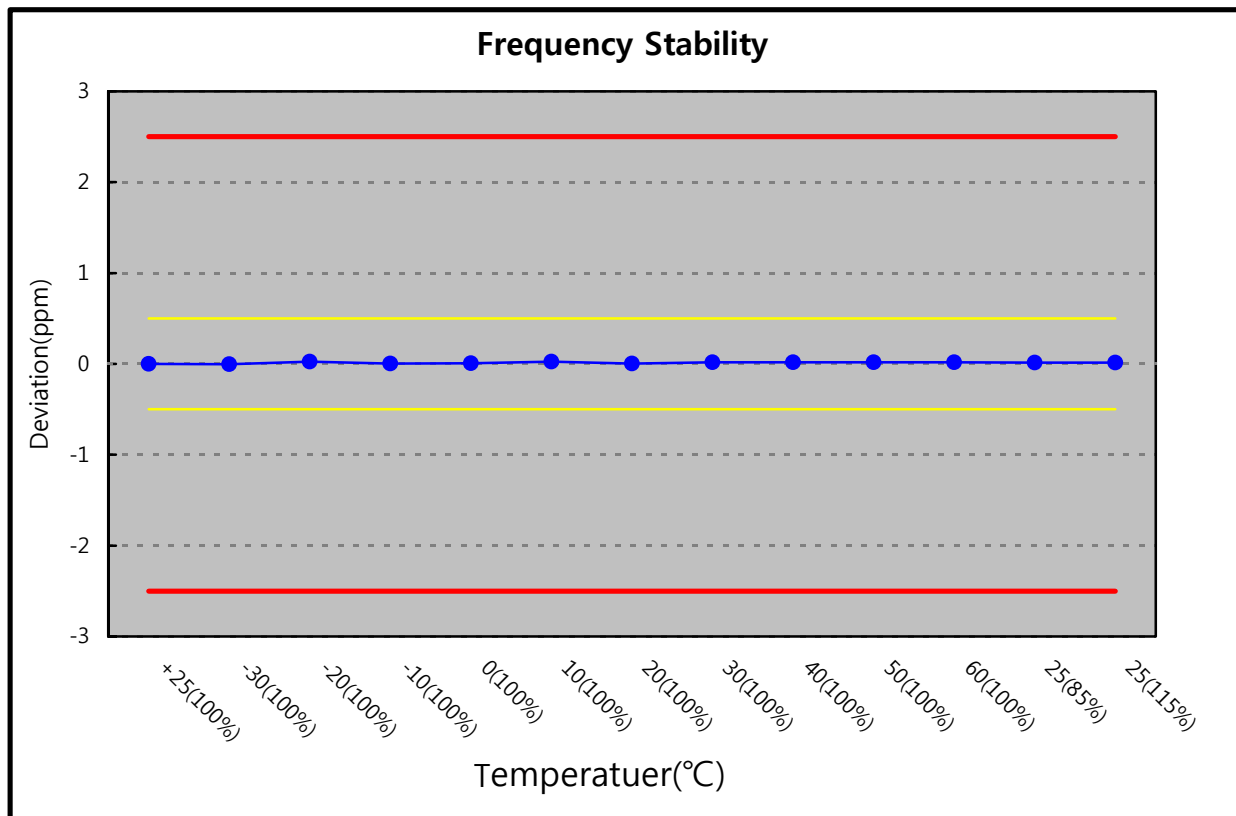
#### 4.1.4 Frequency Stability (CDMA)

OPERATING FREQUENCY : 836,519,990 Hz  
 CHANNEL : 0384(Mid)  
 REFERENCE VOLTAGE : 5 VDC  
 DEVIATION LIMIT : ± 0.00025 % or 2.5 ppm

VOLTAGE (%)	POWER (VAC)	TEMP (dB)	FREQ (Hz)	Deviation (ppm)
100%	5.00	+25(Ref)	836,519,990	0.000
100%		-30	836,519,987	-0.004
100%		-20	836,520,009	0.023
100%		-10	836,519,992	0.002
100%		0	836,519,995	0.006
100%		+10	836,520,012	0.026
100%		+20	836,519,992	0.002
100%		+30	836,520,004	0.012
100%		+40	836,520,005	0.017
100%		+50	836,520,004	0.018
100%		+60	836,520,004	0.017
85%	4.25	+25	836,520,002	0.017
115%	5.75	+25	836,520,002	0.014
BATT.ENDPOINT	-	-	-	-

#### 4.1.4 Frequency Stability (CDMA)

(Continued...)



## **5.1 PLOTS OF EMISSIONS**

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(SEE ATTACHMENT “Test Plots”)

## 6.1 LIST OF TEST EQUIPMENT

	Type	Manufacturer	Model	Cal.Due.Date (dd/mm/yy)	Next.Due.Date (dd/mm/yy)	S/N
<input checked="" type="checkbox"/>	Spectrum Analyzer	Agilent	E4440A	25/09/09	25/09/10	MY45304199
<input type="checkbox"/>	Spectrum Analyzer	Rohde Schwarz	FSQ26	05/06/09	05/06/10	200445
<input type="checkbox"/>	Spectrum Analyzer(RE)	H.P	8563E	13/10/09	13/10/10	3551A04634
<input checked="" type="checkbox"/>	Power Meter	H.P	EMP-442A	02/07/09	02/07/10	GB37170413
<input checked="" type="checkbox"/>	Power Sensor	H.P	8481A	02/07/09	02/07/10	3318A96332
<input type="checkbox"/>	Power Divider	Agilent	11636B	13/10/09	13/10/10	56471
<input checked="" type="checkbox"/>	Power Splitter	Anritsu	K241B	13/10/09	13/10/10	20611
<input type="checkbox"/>	Power Splitter	Anritsu	K241B	02/07/09	02/07/10	017060
<input type="checkbox"/>	Frequency Counter	H.P	5342A	13/07/09	13/07/10	2119A04450
<input checked="" type="checkbox"/>	TEMP & HUMIDITY Chamber	JISCO	KR-100/J-RHC2	10/10/09	10/10/10	30604493/021031
<input checked="" type="checkbox"/>	Digital Multimeter	H.P	34401A	13/03/09	13/03/10	3146A13475, US36122178
<input type="checkbox"/>	Multifunction Synthesizer	HP	8904A	06/10/09	06/10/10	3633A08404
<input checked="" type="checkbox"/>	Signal Generator	Rohde Schwarz	SMR20	13/03/09	13/03/10	101251
<input checked="" type="checkbox"/>	Signal Generator	H.P	ESG-3000A	02/07/09	02/07/10	US37230529
<input type="checkbox"/>	Vector Signal Generator	Rohde Schwarz	SMJ100A	02/02/09	02/02/10	100148
<input type="checkbox"/>	Audio Analyzer	H.P	8903B	02/07/09	02/07/10	3011A09448
<input type="checkbox"/>	Modulation Analyzer	H.P	8901B	02/07/09	02/07/10	3028A03029
<input checked="" type="checkbox"/>	8960 Series 10 Wireless Comms. Test Set	Agilent	E5515C	02/07/09	02/07/10	GB43461134
<input type="checkbox"/>	Universal Radio communication Tester	Rohde Schwarz	CMU 200	19/05/09	19/05/10	106760
<input type="checkbox"/>	Bluetooth Tester	TESCOM	TC-3000B	02/07/09	02/07/10	3000B000268
<input type="checkbox"/>	Thermo hygrometer	BODYCOM	BJ5478	06/02/09	06/02/10	090205-3
<input checked="" type="checkbox"/>	Thermo hygrometer	BODYCOM	BJ5478	06/02/09	06/02/10	090205-2
<input type="checkbox"/>	Thermo hygrometer	BODYCOM	BJ5478	06/02/09	06/02/10	090205-4
<input type="checkbox"/>	AC Power supply	DAEKWANG	5KVA	13/03/09	13/03/10	20060321-1
<input type="checkbox"/>	DC Power Supply	HP	6622A	13/03/09	13/03/10	3448A03760
<input checked="" type="checkbox"/>	DC Power Supply	HP	6633A	13/03/09	13/03/10	3524A06634
<input checked="" type="checkbox"/>	BAND Reject Filter	Microwave Circuits	N0308372	06/10/09	06/10/10	3125-01DC0352
<input type="checkbox"/>	BAND Reject Filter	Wainwright	WRCG1750	06/10/09	06/10/10	2
<input type="checkbox"/>	High-Pass Filter	ANRITSU	MP526D	06/10/09	06/10/10	M27756
<input type="checkbox"/>	High-pass filter	Wainwright	WHKX2.1	N/A	N/A	1
<input type="checkbox"/>	High-Pass Filter	Wainwright	WHKX3.0	N/A	N/A	9
<input type="checkbox"/>	Tunable Notch Filter	Wainwright	WRCT800.0/960.0-0.2/40-8SSK	N/A	N/A	10
<input type="checkbox"/>	Tunable Notch Filter	Wainwright	WRCD1700.0/2000.0-0.2/40-10SSK	N/A	N/A	27
<input type="checkbox"/>	Tunable Notch Filter	Wainwright	WRCT1900.0/2200.0-5/40-10SSK	N/A	N/A	7
<input checked="" type="checkbox"/>	HORN ANT	ETS	3115	17/06/09	17/06/10	6419
<input checked="" type="checkbox"/>	HORN ANT	ETS	3115	23/09/09	23/09/10	21097
<input type="checkbox"/>	HORN ANT	A.H.Systems	SAS-574	10/06/09	10/06/10	154
<input type="checkbox"/>	HORN ANT	A.H.Systems	SAS-574	10/06/09	10/06/10	155



	Type	Manufacturer	Model	Cal.Due.Date (dd/mm/yy)	Next.Due.Date (dd/mm/yy)	S/N
<input checked="" type="checkbox"/>	Dipole Antenna	Schwarzbeck	VHA9103	06/10/09	06/10/10	2116
<input checked="" type="checkbox"/>	Dipole Antenna	Schwarzbeck	VHA9103	06/10/09	06/10/10	2117
<input type="checkbox"/>	Dipole Antenna	Schwarzbeck	UHA9105	05/10/09	05/10/10	2261
<input type="checkbox"/>	Dipole Antenna	Schwarzbeck	UHA9105	05/10/09	05/10/10	2262
<input type="checkbox"/>	LOOP Antenna	ETS	6502	14/09/09	14/09/10	3471
<input type="checkbox"/>	Coaxial Fixed Attenuators	Agilent	8491B	02/07/09	02/07/10	MY39260700
<input checked="" type="checkbox"/>	Coaxial Fixed Attenuators	Agilent	8491B	02/07/09	02/07/10	MY39260699
<input checked="" type="checkbox"/>	Attenuator (10dB)	WEINSCHTEL	23-10-34	01/10/09	01/10/10	BP4386
<input type="checkbox"/>	Attenuator (10dB)	WEINSCHTEL	23-10-34	19/01/09	19/01/10	BP4387
<input type="checkbox"/>	Attenuator (20dB)	WEINSCHTEL	86-20-11	06/10/09	06/10/10	432
<input type="checkbox"/>	Attenuator (10dB)	WEINSCHTEL	31696	06/10/09	06/10/10	446
<input type="checkbox"/>	Attenuator (10dB)	WEINSCHTEL	31696	06/10/09	06/10/10	408
<input type="checkbox"/>	Attenuator (40dB)	WEINSCHTEL	57-40-33	01/10/09	01/10/10	NN837
<input type="checkbox"/>	Attenuator (30dB)	JFW	50FH-030-300	13/03/09	13/03/10	060320-1
<input type="checkbox"/>	Type N Coaxial CIRCULATOR	NOVA MICROWAVE	0088CAN	02/07/09	02/07/10	788
<input type="checkbox"/>	Type N Coaxial CIRCULATOR	NOVA MICROWAVE	0185CAN	02/07/09	02/07/10	790
<input type="checkbox"/>	Type N Coaxial CIRCULATOR	NOVA MICROWAVE	0215CAN	02/07/09	02/07/10	112
<input checked="" type="checkbox"/>	Amplifier (30dB)	Agilent	8449B	10/10/09	10/10/10	3008A01590
<input checked="" type="checkbox"/>	Amplifier	EMPOWER	BBS3Q7ELU	02/02/09	02/02/10	1020
<input type="checkbox"/>	RF Power Amplifier	OPHIRRF	5069F	02/07/09	02/07/10	1006
<input type="checkbox"/>	EMI TEST RECEIVER	R&S	ESU	02/02/09	02/02/10	100014
<input type="checkbox"/>	BILOG ANTENNA	SCHAFFNER	CBL6112B	02/06/09	02/06/10	2737
<input type="checkbox"/>	Amplifier (22dB)	H.P	8447E	05/02/09	05/02/10	2945A02865
<input type="checkbox"/>	EMI TEST RECEIVER	R&S	ESCI	12/05/09	12/05/10	100364
<input type="checkbox"/>	LOG-PERIODIC ANT.	Schwarzbeck	UHALP9108A	30/05/09	30/05/10	590
<input type="checkbox"/>	BICONICAL ANT.	Schwarzbeck	VHA 9103	02/06/09	02/06/10	2233
<input type="checkbox"/>	LOG-PERIODIC ANT.	Schwarzbeck	UHALP9108A1	07/10/09	07/10/10	1098
<input type="checkbox"/>	BICONICAL ANT.	Schwarzbeck	VHA 9103	06/10/09	06/10/10	91031946
<input type="checkbox"/>	Low Noise Pre Amplifier	TSJ	MLA-100K01-B01-2	13/03/09	13/03/10	1252741
<input checked="" type="checkbox"/>	Amplifier (25dB)	Agilent	8447D	12/05/09	12/05/10	2944A10144
<input type="checkbox"/>	Amplifier (25dB)	Agilent	8447D	03/07/09	03/07/10	2648A04922
<input type="checkbox"/>	Spectrum Analyzer(CE)	H.P	8591E	26/04/09	26/04/10	3649A05889
<input type="checkbox"/>	LISN	Kyoritsu	KNW-407	03/07/09	03/07/10	8-317-8
<input type="checkbox"/>	LISN	Kyoritsu	KNW-242	13/10/09	13/10/10	8-654-15
<input type="checkbox"/>	CVCF	NF Electronic	4420	13/03/09	13/03/10	304935/337980
<input type="checkbox"/>	DC BLOCK	Hyuplip	KEL-007	N/A	N/A	7-1581-5
<input type="checkbox"/>	50 ohm Terminator	HME	CT-01	22/01/09	22/01/10	N/A
<input type="checkbox"/>	RFI/FIELD Intensity Meter	Kyoritsu	KNM-2402	03/07/09	03/07/10	4N-170-3

## 7.1 SAMPLE CALCULATIONS

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### A. Emission Designator

Emission Designator = 1M29F9W

CDMA BW = 1.2853 MHz

F = Frequency Modulation

9 = Composite Digital Info

W = Combination (Audio/Data)

(Measured at the 99.75% power bandwidth)

## 8.1 CONCLUSION

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The data collected shows that the **EpiValley Co., Ltd. CDMA 1x EV-DO USB Modem (FCC ID: R2NSEC-8380)** complies with all the requirements of Parts 2 and 22 of the FCC rules.