

RADIATED EMISSIONS PORTIONS OF FCC CFR47 PART 22 SUBPART H FCC CFR47 PART 24 SUBPART E INDUSTRY CANADA RSS-132 ISSUE 2 INDUSTRY CANADA RSS-133 ISSUE 4

### **CERTIFICATION TEST REPORT**

**FOR** 

**USB MODEM** 

**MODEL NUMBER: USB305** 

FCC ID: N7NU305 IC: 2417C-U305

REPORT NUMBER: 09U12527-1, Revision B

**ISSUE DATE: JUNE 11, 2009** 

Prepared for

SIERRA WIRELESS, INC. 13811 WIRELESS WAY RICHMOND, BC V6V 3A4, CANADA

Prepared by

COMPLIANCE CERTIFICATION SERVICES 47173 BENICIA STREET FREMONT, CA 94538, U.S.A.

TEL: (510) 771-1000 FAX: (510) 661-0888



NVLAP LAB CODE 200065-0

### **Revision History**

Rev.	Issue Date	Revisions	Revised By
	06/10/09	Initial Issue	T. Chan
В	6/11/09	Frequency correction on part 22 and 24	T. Chan

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REPORT NO: 09U12572-1B FCC ID: N7NU305

#### 1. ATTESTATION OF TEST RESULTS

**COMPANY NAME:** SIERRA WIRELESS

13811 WIRELESS WAY

RICHMOND, BC V6V 3A4, CANADA

EUT DESCRIPTION: USB MODEM

MODEL: USB305

SERIAL NUMBER: CCS2305

**DATE TESTED:** MAY 29 - JUNE 01, 2009

# APPLICABLE STANDARDS

STANDARD	TEST RESULTS
Radiated emissions portions of CFR 47 Part 22 Subpart H	Pass
Radiated emissions portions of CFR 47 Part 24 Subpart E	Pass
Radiated emissions portions of INDUSTRY CANADA RSS-132 Issue 2	Pass
Radiated emissions portions of INDUSTRY CANADA RSS-133 Issue 4	Pass

Compliance Certification Services, Inc. (CCS) tested the above equipment in accordance with the requirements set forth in the above standards. All indications of Pass/Fail in this report are opinions expressed by CCS based on interpretations and/or observations of test results. Measurement Uncertainties were not taken into account and are published for informational purposes only. The test results show that the equipment tested is capable of demonstrating compliance with the requirements as documented in this report.

**Note:** The results documented in this report apply only to the tested sample, under the conditions and modes of operation as described herein. This document may not be altered or revised in any way unless done so by CCS and all revisions are duly noted in the revisions section. Any alteration of this document not carried out by CCS will constitute fraud and shall nullify the document. This report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, any agency of the Federal Government, or any agency of any government.

Approved & Released For CCS By:

Tested By:

THU CHAN

**EMC MANAGER** 

COMPLIANCE CERTIFICATION SERVICES

CHIN PANG EMC ENGINEER

Chin Pany

COMPLIANCE CERTIFICATION SERVICES

DATE: JUNE 11, 2009 IC: 2417C-U305

#### 2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with TIA-603-C, FCC CFR 47 Part 2, FCC CFR 47 Part 22, FCC CFR Part 24, RSS-132 Issue 2, and RSS-133 Issue 4.

### 3. FACILITIES AND ACCREDITATION

The test sites and measurement facilities used to collect data are located at 47173 Benicia Street, Fremont, California, USA.

CCS is accredited by NVLAP, Laboratory Code 200065-0. The full scope of accreditation can be viewed at <a href="http://www.ccsemc.com">http://www.ccsemc.com</a>.

#### 4. CALIBRATION AND UNCERTAINTY

#### 4.1. MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

#### 4.2. SAMPLE CALCULATION

Where relevant, the following sample calculation is provided:

Field Strength (dBuV/m) = Measured Voltage (dBuV) + Antenna Factor (dB/m) + Cable Loss (dB) – Preamp Gain (dB) 36.5 dBuV + 18.7 dB/m + 0.6 dB – 26.9 dB = 28.9 dBuV/m

#### 4.3. MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the apparatus:

PARAMETER	UNCERTAINTY
Conducted Disturbance, 0.15 to 30 MHz	3.52 dB
Radiated Disturbance, 30 to 1000 MHz	4.94 dB

Uncertainty figures are valid to a confidence level of 95%.

#### 5. EQUIPMENT UNDER TEST

#### 5.1. DESCRIPTION OF EUT

The EUT is a multi-band wireless modem operating on the GSM/GPRS/EDGE/UMTS network. In the US and Canada, only cellular and PCS bands are used for EDGE/GPRS/UMTS operation, so this test report only contains data for these two bands (850MHz and 1900MHz).

#### 5.2. SOFTWARE AND FIRMWARE

The following settings were used to configure the Wireless Communications Test Set, Agilent 8960 Series 10, E5515C.

**Instrument information:** (by press SYSTEM CONFIG)

Application: WCDMA Lap App C

E6703C C.03.11

Format: **WCDMA** 

Call Control: (by press CALL SETUP)

2 of 4 Cell Parameters: PS Domain Information > Present

ATT (IMSI Attach) Flag State > Set

4 of 4 Security Info: Security Parameter - System Operations > None

Call Parms: (by press CALL SETUP)

1 of 3

Channel Type: 12.2k RMC Paging Service: **RB Test Mode** 

#### **HSDPA Parameters:**

1 of 2

HSDPA RB Test Mode Setup FRC Type > H-Set 5 QPSK CN Domain > PS Domain

Uplink 64k DTCH for HSDPA Loopback State > On

HS-DSCH Data Pattern > CCITT PRBS15 RLC Header on HS-DSCH > Present

Channel (UARFCN) Parms: DL Channel: 4357 / 4407 / 4458

> UL Channel: 4132 / 4182 / 4233 UL Sep (Band) > 400MHz (Band 4)

Freg Bnad Ind > On

2 of 3

DL DTCH Data: **ALL ONES** 

RLC Reestablish: Off Call Limit State: Off Call Drop Timer: Off

SRB Config.: 13.6k DCCH

3 of 3

UE Target Power: -5 dBm

UL CL Pwr Ctrl Parms: Active bits (Select "All Up bits" after linked to get maximum power)

DL Channel: 9662 / 9800 / 9938 / 4357 / 4407 / 4458 **UL** Channel: 9262 / 9400 / 9538 / 4132 / 4182 / 4233

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#### 5.3. WORST-CASE CONFIGURATION AND MODE

The worst-position was the EUT with highest emissions. To determine the worst-case, the EUT was investigated at X and Y-Positions, and the worst position is X-position for Cell band and Y-position for PCS band.

#### 5.4. DESCRIPTION OF TEST SETUP

#### **SUPPORT EQUIPMENT**

PERIPHERAL SUPPORT EQUIPMENT LIST					
Description	Manufacturer	Model	Serial Number	FCC ID	
Laptop	Lenovo	T60 IBM ThinkPad	ZZBC354	DoC	
AC Adapter	Lenovo	PA-1600	11S92P1160Z1ZAW65C90MH	DoC	
Communications Test Set	Agilent	E5515C	GB42140288	DoC	

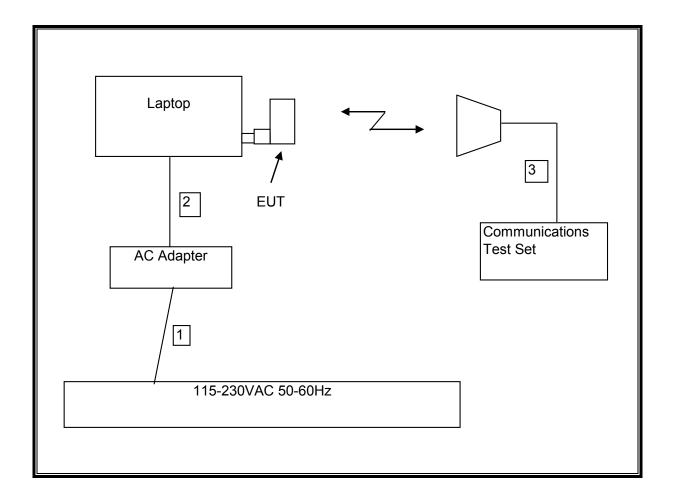
#### **I/O CABLES**

	I/O CABLE LIST						
Cable	Port	# of	Connector	Cable	Cable	Remarks	
No.		Identical	Type	Туре	Length		
		Ports					
1	AC	1	US 115V	Un-shielded	2m	No	
2	DC	1	DC	Un-shielded	2m	No	
3	RF In/Out	1	N-Type	Un-shielded	2m	Yes	

#### **TEST SETUP**

The EUT directly plugged into the laptop during the tests. The Wireless Communication test set exercised the EUT.

### **RADIATED TEST SETUP DIAGRAM**



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## 6. TEST AND MEASUREMENT EQUIPMENT

The following test and measurement equipment was utilized for the tests documented in this report:

TEST EQUIPMENT LIST					
Description	Manufacturer	Model	Serial Number	Cal Due	
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01161	08/06/09	
Antenna, Horn, 18 GHz	EMCO	3115	C00872	07/22/09	
Antenna, Bilog, 2 GHz	Sunol Sciences	JB1	C01011	01/14/10	
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01052	02/04/10	
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00580	12/16/09	
Wireless Communications Test Set	Agilent / HP	E5515C	NA	09/28/09	
Antenna, Horn, 18 GHz	ETS	3117	C01006	07/22/09	
Signal Generator 1024 MHz	R&S	SMY01	DE 12311	05/28/10	
Dipole	EMCO	3121C-DB2	22435	06/28/09	
2.7GHz HPF	MicroTronic	HPM13194	2	CNR	
1.5GHz HPF	MicroTronic	HPM13195	1	CNR	

#### 7. LIMITS AND RESULTS

#### 7.1. RADIATED OUTPUT POWER

#### LIMIT

22.913(a) The ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 Watts.

24.232(b) & RSS133 § 6.4 Mobile/portable stations are limited to 2 watts e.i.r.p. peak power and the equipment must employ means to limit the power to the minimum necessary for successful communications.

RSS-132 § 4.4 The maximum ERP shall be 6.3 Watts for mobile stations.

### TEST PROCEDURE

RSS-132, RSS-133, & ANSI / TIA / EIA 603C Clause 2.2.17

#### **RESULTS**

#### 850 MHz GPRS Mode

Channel	Frequency	ERP	ERP
		Peak Power	Peak Power
	(MHz)	(dBm)	(mW)
Low	824.2	31.30	1348.96
Middle	836.6	30.80	1202.26
High	848.8	28.80	758.58

#### 850 MHz EGPRS Mode

Channel	Frequency	ERP	ERP
		Peak Power	Peak Power
	(MHz)	(dBm)	(mW)
Low	824.2	28.20	660.69
Middle	836.6	27.30	537.03
High	848.8	26.20	416.87

### 850 MHz WCDMA Modulation

Channel	Frequency	ERP	ERP
		Peak Power	Peak Power
	(MHz)	(dBm)	(mW)
Low	826.4	23.80	239.88
Middle	836.4	24.20	263.03
High	846.6	23.60	229.09

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#### 1900 MHz GPRS Mode

Channel	Frequency	EIRP	EIRP
		Peak Power	Peak Power
	(MHz)	(dBm)	(mW)
Low	1850.2	30.60	1148.15
Middle	1880.0	28.80	758.58
High	1909.8	28.20	660.69

#### 1900 MHz EGPRS Mode

Channel	Frequency	EIRP	EIRP
		Peak Power	Peak Power
	(MHz)	(dBm)	(mW)
Low	1850.2	28.10	645.65
Middle	1880.0	27.10	512.86
High	1909.8	26.60	457.09

### 1900 MHz WCDMA Modulation

Channel	Frequency	EIRP	EIRP
		Peak Power	Peak Power
	(MHz)	(dBm)	(mW)
Low	1852.4	27.80	602.56
Middle	1880.0	27.40	549.54
High	1907.6	26.20	416.87

#### **CELL BAND GPRS OUTPUT POWER (ERP)**

# High Frequency Substitution Measurement Compliance Certification Services Chamber B

Company: Sierra Wireless Project #: 09U12572 Date: 5/29/2009

Test Engineer: Chin Pang Configuration:EUT/Laptop Mode:CELL, GSM, GPRS

#### Test Equipment:

Receiving: Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.

f	SA reading	Ant. Pol.	Path Loss	ERP	Limit	Margin	Notes
MHz	(dBm)	(H/V)	(dBm)	(dBm)	(dBm)	(dB)	
Low Ch							
824.20	-2.5	V	32.6	30.1	38.5	-8.3	
824.20	0.93	Н	30.4	31.3	38.5	-7.2	
Mid Ch							
836.60	4.3	V	32.7	28.4	38.5	-10.1	
836.60	0.03	Н	30.7	30.8	38.5	-7.7	
High Ch							
848.80	4.5	V	32.0	27.5	38.5	-11.0	
848.80	-2.0	Н	30.8	28.8	38.5	-9.7	

#### **CELL BAND EGPRS OUTPUT POWER (ERP)**

# High Frequency Substitution Measurement Compliance Certification Services Chamber B

Company: Sierra Wireless Project #: 09U12572 Date: 5/29/2009

Test Engineer: Chin Pang Configuration:EUT/Laptop Mode:CELL, GSM, EGPRS

#### Test Equipment:

Receiving: Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.

f	SA reading	Ant. Pol.	Path Loss	ERP	Limit	Margin	Notes
MHz	(dBm)	(H/∨)	(dBm)	(dBm)	(dBm)	(dB)	
Low Ch							
824.20	-5.4	V	32.6	27.2	38.5	-11.3	
824.20	-2.20	Н	30.4	28.2	38.5	-10.3	
Mid Ch							
836.60	-5.5	V	32.7	27.1	38.5	-11.3	
836.60	-3.41	Н	30.7	27.3	38.5	-11.1	
High Ch							
848.80	-6.6	V	32.0	25.4	38.5	-13.1	
848.80	4.6	Н	30.8	26.2	38.5	-12.3	

#### **CELL BAND WCDMA OUTPUT POWER (ERP)**

# High Frequency Substitution Measurement Compliance Certification Services Chamber B

Company: Sierra Wireless Project #: 09U12572 Date: 5/29/2009

Test Engineer: Chin Pang Configuration:EUT/Laptop Mode:CELL, UMTS WCDMA

#### Test Equipment:

Receiving: Sunol T130, and 3m Chamber N-type Cable (Setup this one for testing EUT) Substitution: Dipole S/N: 00022117, 6ft SMA Cable (SN # 208947003) Warehouse.

f	SA reading	Ant. Pol.	Path Loss	ERP	Limit	Margin	Notes
MHz	(dBm)	(H/V)	(dBm)	(dBm)	(dBm)	(dB)	
Low Ch							
826.40	-10.0	V	32.6	22.6	38.5	-15.9	
826.40	-6.60	Н	30.4	23.8	38.5	-14.7	
Mid Ch							
836.40	-10.8	V	32.7	21.9	38.5	-16.6	
836.40	-6.57	Н	30.7	24.2	38.5	-14.3	
High Ch							
846.60	-10.8	V	32.0	21.2	38.5	-17.3	
846.60	-7.2	Н	30.8	23.6	38.5	-14.9	

#### PCS BAND GPRS OUTPUT POWER (EIRP)

# High Frequency Fundamental Measurement Compliance Certification Services Chamber B

Company:Sierra Wireless

Project #:09U12572 Date: 5/29/2009

Test Engineer: Chin Pang Configuration:EUT/Laptop Mode:PCS, GSM GPRS 1900

#### Test Equipment:

Receiving: Horn T59, and Camber B SMA Cables

Substitution: Horn T72 Substitution, 6ft SMA Cable (208947003) Warehouse

f	SA reading	Ant. Pol.	Path Loss	EIRP	Limit	Delta	Notes
GHz	(dBm)	(H/V)	(dBm)	(dBm)	(dBm)	(dB)	
Low Ch							
1.8520	-9.6	V	40.2	30.6	33.0	-2.4	
1.8520	-17.3	Н	39.5	22.2	33.0	-10.8	
Mid Ch							
1.8800	-11.5	V	40.3	28.8	33.0	4.3	
1.8800	-19.0	Н	40.1	21.1	33.0	-11.9	
High Ch							
1.9098	-12.0	V	40.2	28.2	33.0	4.8	
1.9098	-19.1	Н	40.1	21.0	33.0	-12.0	

#### PCS BAND EGPRS OUTPUT POWER (EIRP)

# High Frequency Fundamental Measurement Compliance Certification Services Chamber B

Company:Sierra Wireless Project #:09U12572

Date: 5/29/2009

Test Engineer: Chin Pang Configuration:EUT/Laptop Mode:PCS, GSM EGPRS 1900

#### Test Equipment:

Receiving: Horn T59, and Camber B SMA Cables

Substitution: Horn T72 Substitution, 6ft SMA Cable (208947003) Warehouse

f	SA reading	Ant. Pol.	Path Loss	EIRP	Limit	Delta	Notes
GHz	(dBm)	(H/V)	(dBm)	(dBm)	(dBm)	(dB)	
Low Ch							
1.8520	-12.0	V	40.2	28.1	33.0	4.9	
1.8520	-21.2	Н	39.5	18.3	33.0	-14.7	
Mid Ch							
1.8800	-13.1	V	40.3	27.1	33.0	-5.9	
1.8800	-22.1	Н	40.1	18.0	33.0	-15.0	
High Ch							
1.9098	-13.6	V	40.2	26.6	33.0	-6.5	
1.9098	-22.5	Н	40.1	17.7	33.0	-15.4	

#### PCS BAND WCDMA OUTPUT POWER (EIRP)

#### High Frequency Fundamental Measurement Compliance Certification Services Chamber A

Company:Sierra Wireless Project #:09U12572 Date: 5/27/2009

Test Engineer: Chin Pang Configuration:EUT/Laptop Mode:PCS, UMTS WCDMA

#### Test Equipment:

Receiving: Horn T73, and Camber B SMA Cables

Substitution: Horn T72 Substitution, 6ft SMA Cable (208947003) Warehouse

f	SA reading	Ant. Pol.	Path Loss	EIRP	Limit	Delta	Notes
GHz	(dBm)	(H/V)	(dBm)	(dBm)	(dBm)	(dB)	
Low Ch							
1.8524	-12.6	V	40.4	27.8	33.0	-5.2	
1.8524	-20.1	Н	39.7	19.6	33.0	-13.4	
Mid Ch							
1.880	-12.6	V	39.9	27.4	33.0	-5.7	
1.880	-16.3	Н	40.1	23.8	33.0	-9.2	
High Ch							
1.9076	-13.7	V	39.8	26.2	33.0	-6.8	
1.9076	-21.4	Н	40.2	18.8	33.0	-14.3	

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#### 7.2. FIELD STRENGTH OF SPURIOUS EMISSION

#### **LIMIT**

§22.917 (e) and §24.238 (a) Out of band emissions. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least 43 + 10 log (P) dB.

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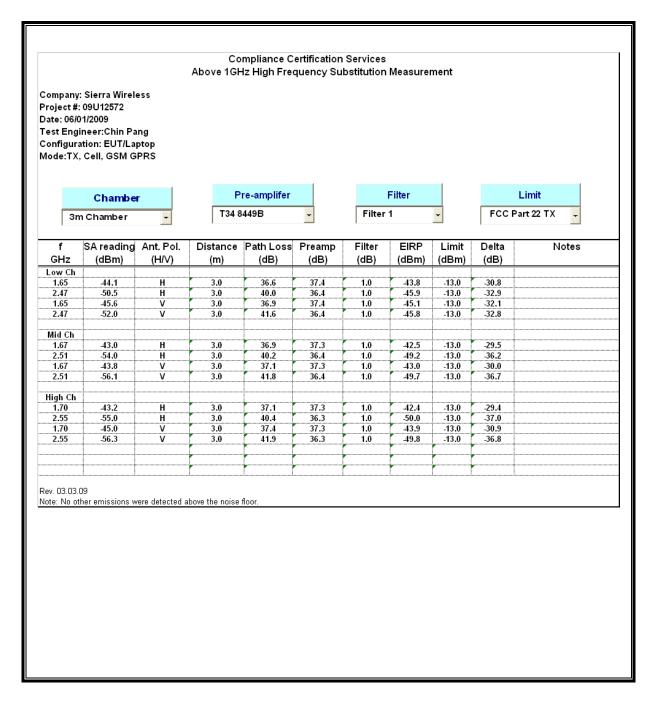
#### **TEST PROCEDURE**

RSS-132, RSS-133, & ANSI / TIA / EIA 603C Clause 2.2.12

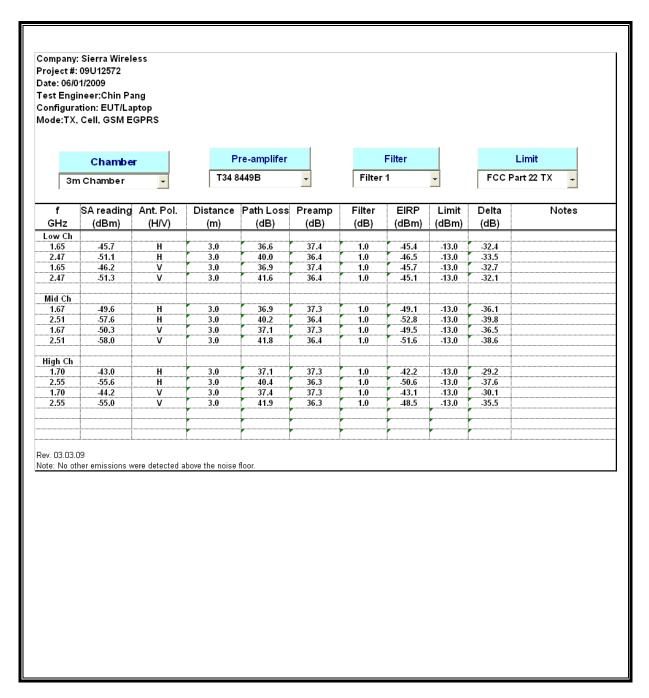
#### **RESULTS**

Note: No emissions were found within 30-1000MHz & after the third harmonic of 20dB below the system noise.

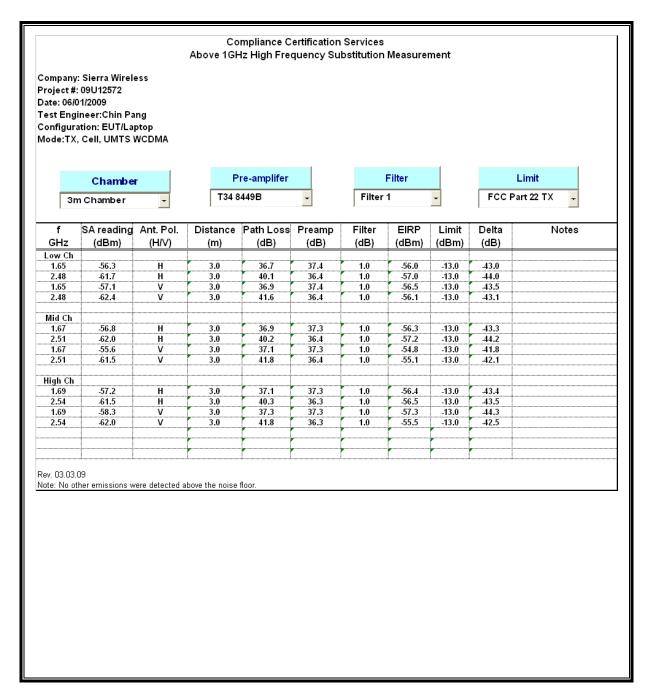
#### **CELL BAND GPRS SPURIOUS & HARMONIC (ERP)**



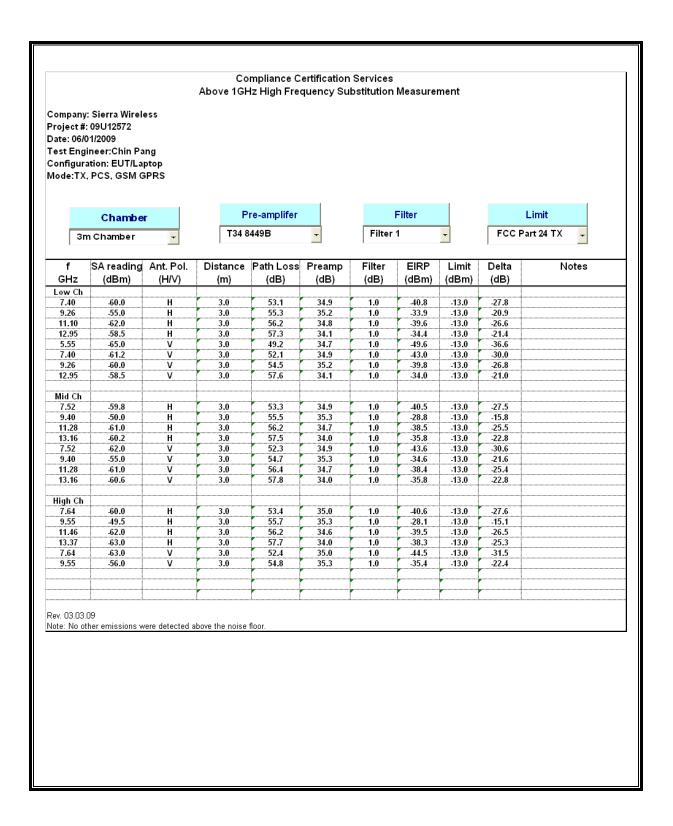
#### **CELL BAND EGPRS SPURIOUS & HARMONIC (ERP)**



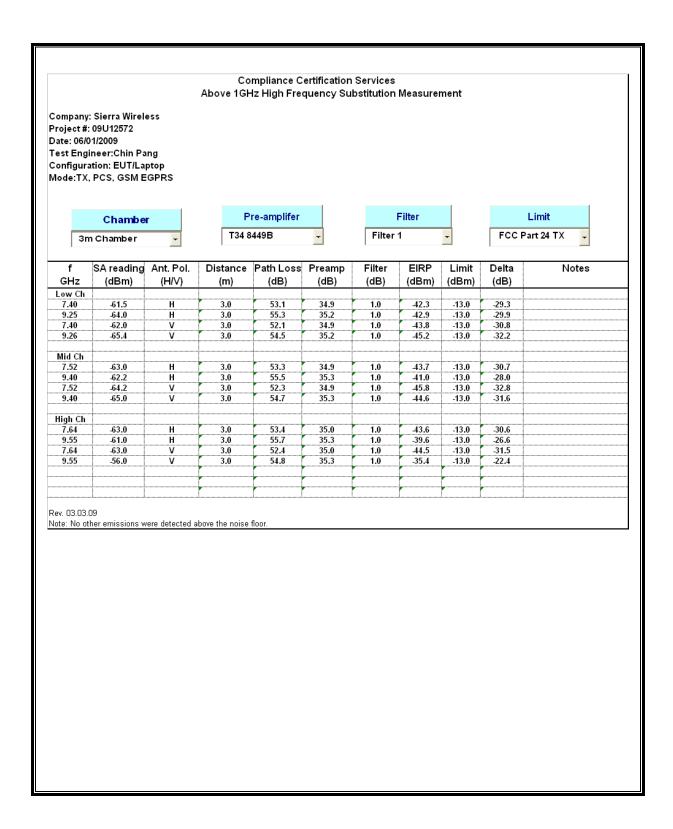
#### **CELL BAND WCDMA SPURIOUS & HARMONIC (ERP)**



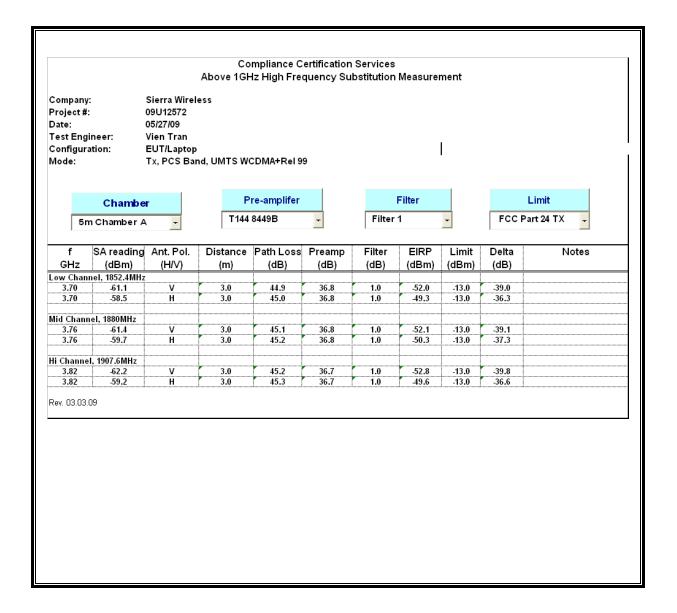
#### PCS BAND GPRS SPURIOUS & HARMONIC (EIRP)



#### PCS BAND EGPRS SPURIOUS & HARMONIC (EIRP)



#### PCS BAND WCDMA SPURIOUS & HARMONIC (EIRP)



#### 7.3. RECEIVER SPURIOUS EMISSIONS

#### **LIMIT**

Spurious Emission Limits for Receivers:

Spurious Frequency (MHz)	Field Strength (microvolts/m at 3 metres)
30-88	100
88-216	150
216-960	200
Above 960	500

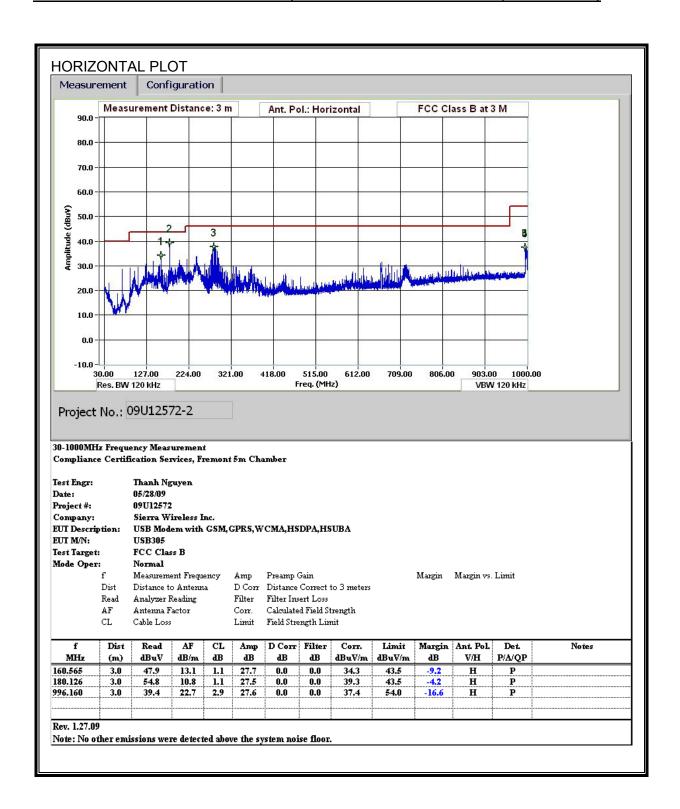
#### **TEST PROCEDURE**

The search for spurious emissions shall be from the lowest frequency internally generated or used in the receiver (local oscillator frequency, intermediate frequency or carrier frequency),

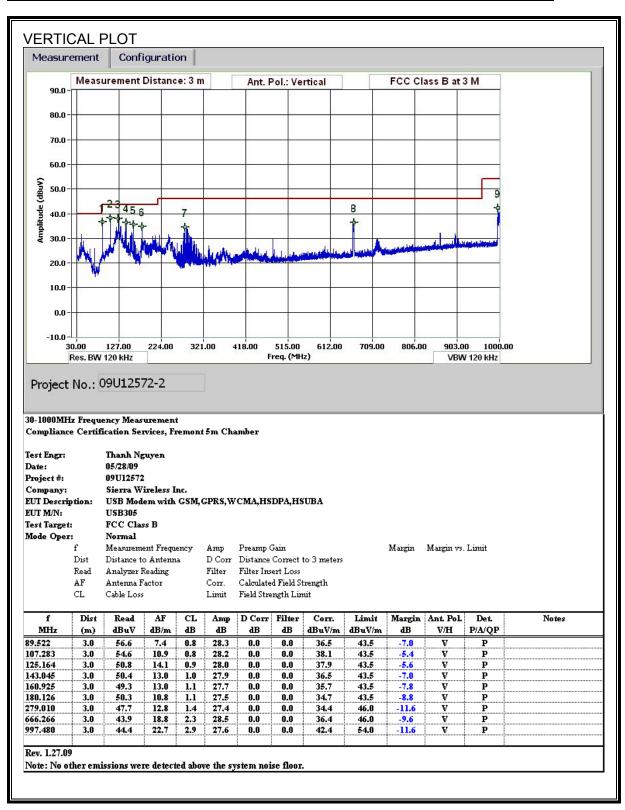
or 30 MHz, whichever is the higher, to at least 3 times the highest tunable and local oscillator frequencies.

#### **RESULTS**

#### SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, HORIZONTAL)

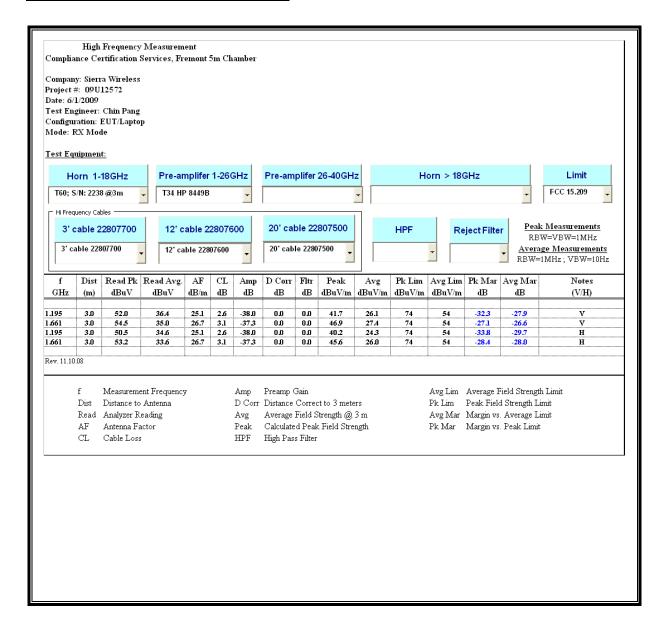


#### SPURIOUS EMISSIONS 30 TO 1000 MHz (WORST-CASE CONFIGURATION, VERTICAL)



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#### **SPURIOUS EMISSIONS ABOVE 1000 MHz**



#### 7.4. POWER LINE CONDUCTED EMISSION

#### **LIMIT**

RSS-Gen 7.2.2

Except when the requirements applicable to a given device state otherwise, for any licence-exempt radio communication device equipped to operate from the public utility AC power supply, either directly or indirectly, the radio frequency voltage that is conducted back onto the AC power lines in the frequency range of 0.15 MHz to 30 MHz shall not exceed the limits shown in Table 2. The tighter limit applies at the frequency range boundaries.

Table 2 – AC Power Lines Conducted Emission Limits

Frequency of Emission (MHz)	Frequency of Emission (MHz) Conducted Limit (dB		
	Quasi-peak	Average	
0.15-0.5	66 to 56 °	56 to 46 *	
0.5-5	56	46	
5-30	60	50	

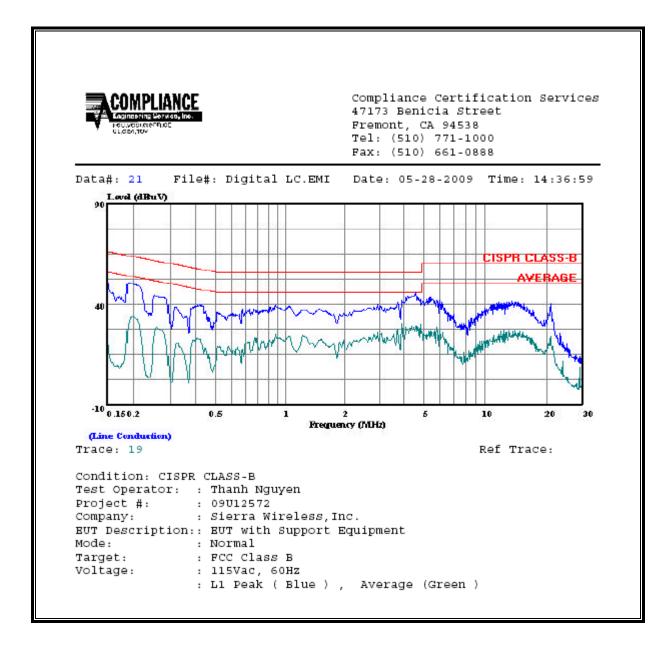
Decreases with the logarithm of the frequency.

#### **RESULTS**

### **6 WORST EMISSIONS**

	CONDUCTED EMISSIONS DATA (115VAC 60Hz)										
Freq.		Reading		Closs	Limit	EN_B	Margin		Remark		
(MHz)	PK (dBuV)	QP (dBuV)	AV (dBuV)	(dB)	QP	AV	QP (dB)	AV (dB)	L1 / L2		
0.19	50.63		33.61	0.00	64.08	54.08	-13.45	-20.47	L1		
0.98	39.54		24.89	0.00	56.00	46.00	-16.46	-21.11	L1		
4.65	45.97		29.96	0.00	56.00	46.00	-10.03	-16.04	L1		
0.30	53.13		21.64	0.00	60.24	50.24	-7.11	-28.60	L2		
0.46	47.65		22.74	0.00	56.67	46.67	-9.02	-23.93	L2		
4.65	45.76		30.31	0.00	56.00	46.00	-10.24	-15.69	L2		
6 Worst I	) Data										

#### **LINE 1 RESULTS**



#### **LINE 2 RESULTS**

Compliance Certification Services 47173 Benicia Street Fremont, CA 94538 Tel: (510) 771-1000 Fax: (510) 661-0888 Data#: 14 File#: Digital LC.EMI Date: 05-28-2009 Time: 14:21:46 Love (dBuV) -10 0.150.2 0.5 2 5 10 20 Frequency (MHz) (Line Conduction) Ref Trace: Trace: 12 Condition: CISPR CLASS-B Test Operator: : Thanh Nguyen Project #: : 09U12572 Company: : Sierra Wireless, Inc. BUT Description:: BUT with Support Equipment Mode: : Normal : FCC Class B Target: Voltage: : 115Vac, 60Hz : L2: Peak ( Blue ) , Average (Green )

DATE: JUNE 11, 2009

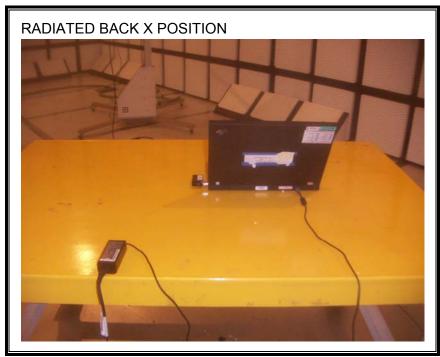
IC: 2417C-U305

#### DATE: JUNE 11, 2009 IC: 2417C-U305

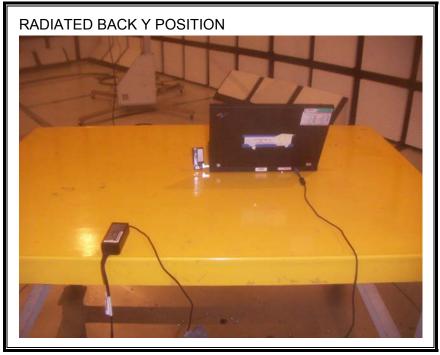
## 8. SETUP PHOTOS

#### **RADIATED RF MEASUREMENT SETUP**

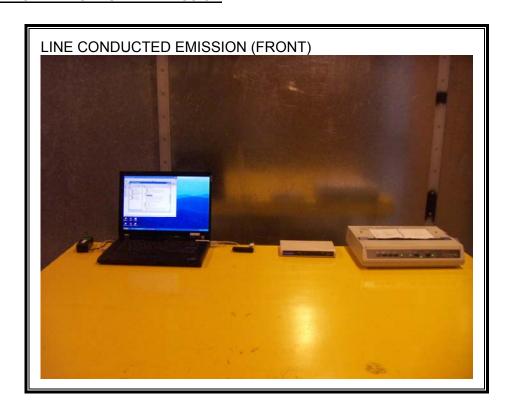




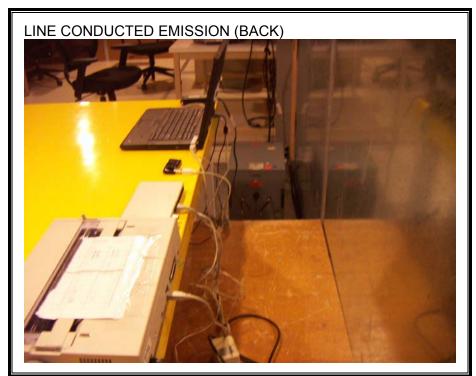




## AC MAINS LINE CONDUCTED EMISSION



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**END OF REPORT** 

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