



**FCC CFR47 PART 15 SUBPART B
CERTIFICATION TEST REPORT
FOR
USB MODEM**

MODEL NUMBER: AC250U

REPORT NUMBER: 09U12929-2

ISSUE DATE: DECEMBER 15, 2009

Prepared for
**SIERRA WIRELESS INC.
2200 FARADAY AVENUE, SUITE 150
CARLSBAD, CA 92008, U.S.A.**

Prepared by
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NVLAP LAB CODE 200065-0

Revision History

<u>Rev.</u>	<u>Issue Date</u>	<u>Revisions</u>	<u>Revised By</u>
--	12/1509	Initial Issue	T. Chan

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS	4
2. TEST METHODOLOGY	5
3. FACILITIES AND ACCREDITATION	5
4. CALIBRATION AND UNCERTAINTY	5
4.1. <i>MEASURING INSTRUMENT CALIBRATION</i>	5
4.2. <i>SAMPLE CALCULATION</i>	5
4.3. <i>MEASUREMENT UNCERTAINTY</i>	5
5. EQUIPMENT UNDER TEST	6
5.1. <i>DESCRIPTION OF EUT</i>	6
5.2. <i>WORST CASE CONFIGURATIONS</i>	6
5.3. <i>MODE(S) OF OPERATION</i>	6
5.4. <i>SOFTWARE AND FIRMWARE</i>	6
5.5. <i>MODIFICATIONS</i>	6
5.6. <i>DETAILS OF TESTED SYSTEM</i>	7
6. TEST AND MEASUREMENT EQUIPMENT	9
7. APPLICABLE LIMITS AND TEST RESULTS	10
7.1. <i>RADIATED EMISSIONS</i>	10
7.2. <i>AC MAINS LINE CONDUCTED EMISSIONS</i>	19
8. SETUP PHOTOS	25

1. ATTESTATION OF TEST RESULTS

COMPANY NAME: SIERRA WIRELESS, INC.
2200 FARADAY AVENUE, SUITE 150
CARLSBAD, CA 92008, U.S.A.

EUT DESCRIPTION: USB MODEM

MODEL: AC250U

SERIAL NUMBER: 3

DATE TESTED: NOVEMBER 15-19, 2009

APPLICABLE STANDARDS	
STANDARD	TEST RESULTS
FCC PART 15 SUBPART B	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. No part of this report may be used to claim product certification, approval, or endorsement by NVLAP, NIST, or any government agency.

Approved & Released For CCS By:

Tested By:



THU CHEN
EMC MANAGER
COMPLIANCE CERTIFICATION SERVICES

CHIN PANG
EMC ENGINEER
COMPLIANCE CERTIFICATION SERVICES

2. TEST METHODOLOGY

The tests documented in this report were performed in accordance with ANSI C63.4-2003.

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 <http://www.ccsemc.com>.

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:

$$\begin{aligned} \text{Field Strength (dBuV/m)} &= \text{Measured Voltage (dBuV)} + \text{Antenna Factor (dB/m)} + \\ &\text{Cable Loss (dB)} - \text{Preamp Gain (dB)} \\ 36.5 \text{ dBuV} + 18.7 \text{ dB/m} + 0.6 \text{ dB} - 26.9 \text{ dB} &= 28.9 \text{ dBuV/m} \end{aligned}$$

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 that operates on the CDMA2000 1xRTT, 1xEVDO and Wimax network. The EUT manufactured by Sierra Wireless, Inc.

GENERAL INFORMATION

CHASSIS MATERIAL	PLASTIC
ENCLOSURE MATERIAL	PLASTIC
POWER REQUIREMENTS	5VDC from USB port
LIST OF ALL OSCILLATOR FREQUENCIES GREATER THAN OR EQUAL TO 9 kHz	32KHz, 2GHz

5.2. WORST CASE CONFIGURATIONS

Two configurations have been investigated on:

1. EUT directly plugged into the Laptop without USB cable.
2. EUT directly plugged into the Laptop with USB cable.

5.3. MODE(S) OF OPERATION

Mode	Description
Normal	The EUT was in normal mode, while all the I/O ports active to transfer data between the laptop and other peripherals.

5.4. SOFTWARE AND FIRMWARE

The test software used during the test was EMCTest software.

5.5. MODIFICATIONS

No modifications were made during testing.

5.6. DETAILS OF TESTED SYSTEM

SUPPORT EQUIPMENT & PERIPHERALS

PERIPHERAL SUPPORT EQUIPMENT LIST				
Description	Manufacturer	Model	Serial Number	FCC ID
Printer	Microline 186	D22300A	AC5C018494A0	DoC
Mouse	Logitech	M-UA34	LTC70500299	DoC
Laptop	Sony	VGN-SZ340	3000325	DoC
AC Adapter	Sony	VGP-AC19V13	1479681110488130	DoC

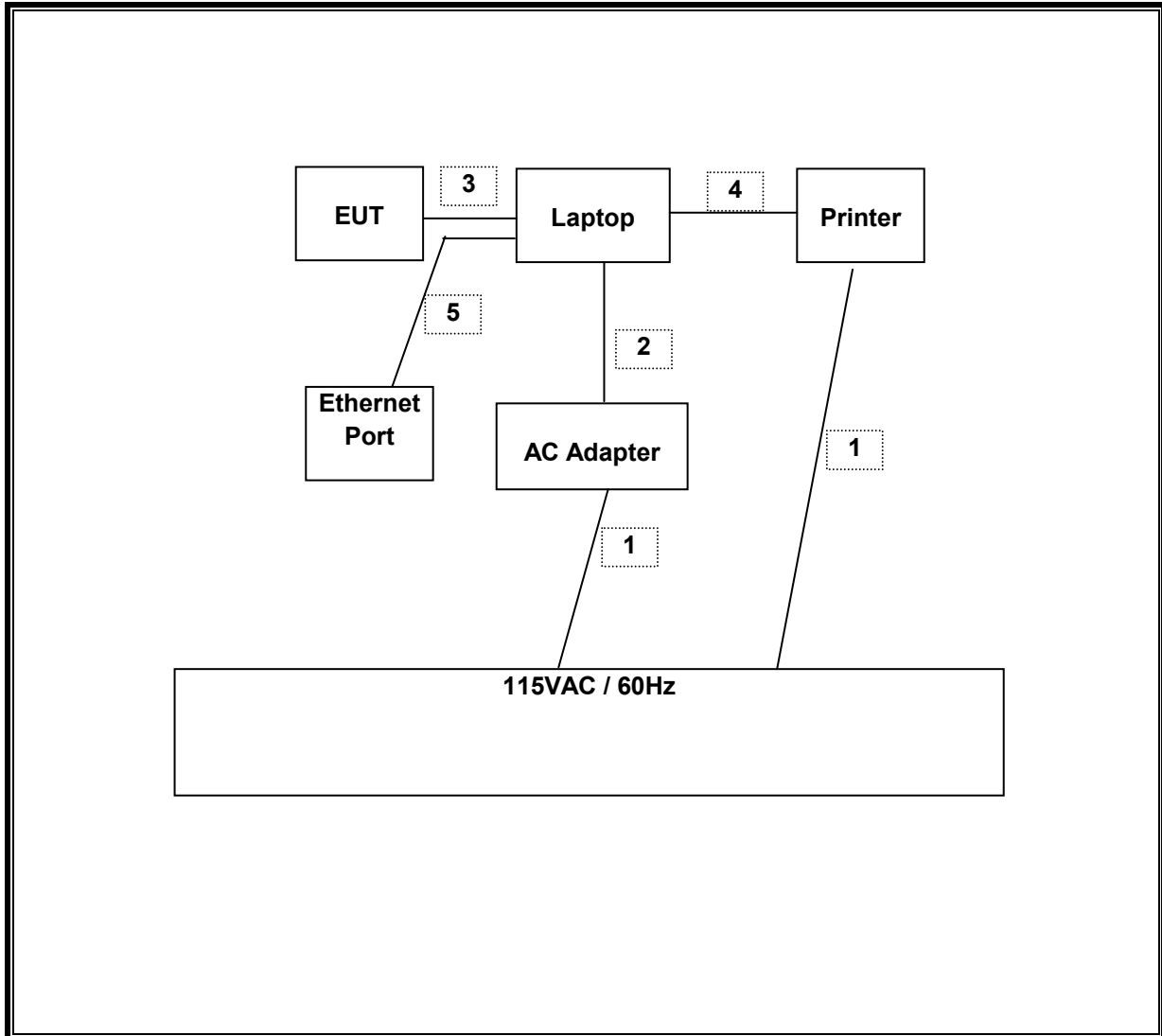
I/O CABLES

I/O CABLE LIST						
Cable No.	Port	# of Identical Ports	Connector Type	Cable Type	Cable Length	Remarks
1	AC	2	US 115V	Un-shielded	2m	
2	DC	1	DC	Un-shielded	2m	
3	USB	1	EUT	Un-shielded	2m	
4	USB	1	Printer	Un-shielded	2m	
5	Ethernet Port	1	RJ45	Un-shielded	5m	

TEST SETUP

The EUT is installed into a laptop with and without USB cable, and test software exercised the EUT.

TEST SETUP DIAGRAM



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	Asset	Cal Due
Preamplifier, 26.5 GHz	Agilent / HP	8449B	C01063	02/04/10
Antenna, Horn, 18 GHz	EMCO	3115	C00783	01/29/10
Preamplifier, 1300 MHz	Agilent / HP	8447D	C00778	12/16/09
Antenna, Bilog, 2 GHz	Sundt Sciences	JB1	C01011	01/14/10
Spectrum Analyzer, 26.5 GHz	Agilent / HP	E4440A	C01178	08/31/10
EMI Test Receiver, 30 MHz	R & S	ESHS 20	N02396	05/06/11
LISN, 30 MHz	FCC	LISN-50/250-25-2	N02625	10/29/10

7. APPLICABLE LIMITS AND TEST RESULTS

7.1. RADIATED EMISSIONS

TEST PROCEDURE

ANSI C63.4

The highest clock frequency generated is 2 GHz in the EUT. Therefore the frequency range was investigated from 30 MHz to 10 GHz.

LIMIT

§15.109 (a) Except for Class A digital devices, the field strength of radiated emissions from unintentional radiators at a distance of 3 meters shall not exceed the following values:

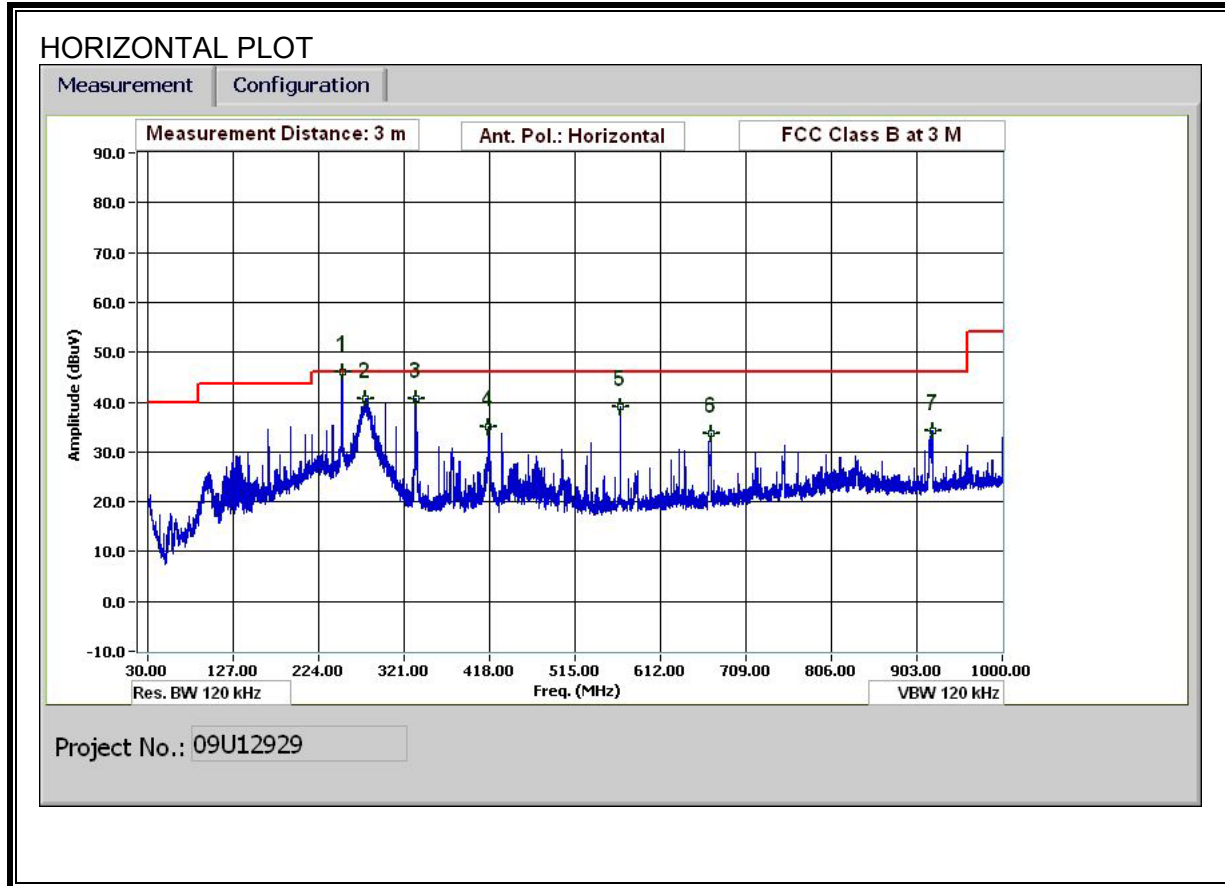
Limits for radiated disturbance of Class B ITE at measuring distance of 3 m	
Frequency range (MHz)	Quasi-peak limits (dB μ V/m)
30 to 88	40
88 to 216	43.5
216 to 960	46
Above 960 MHz	54

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

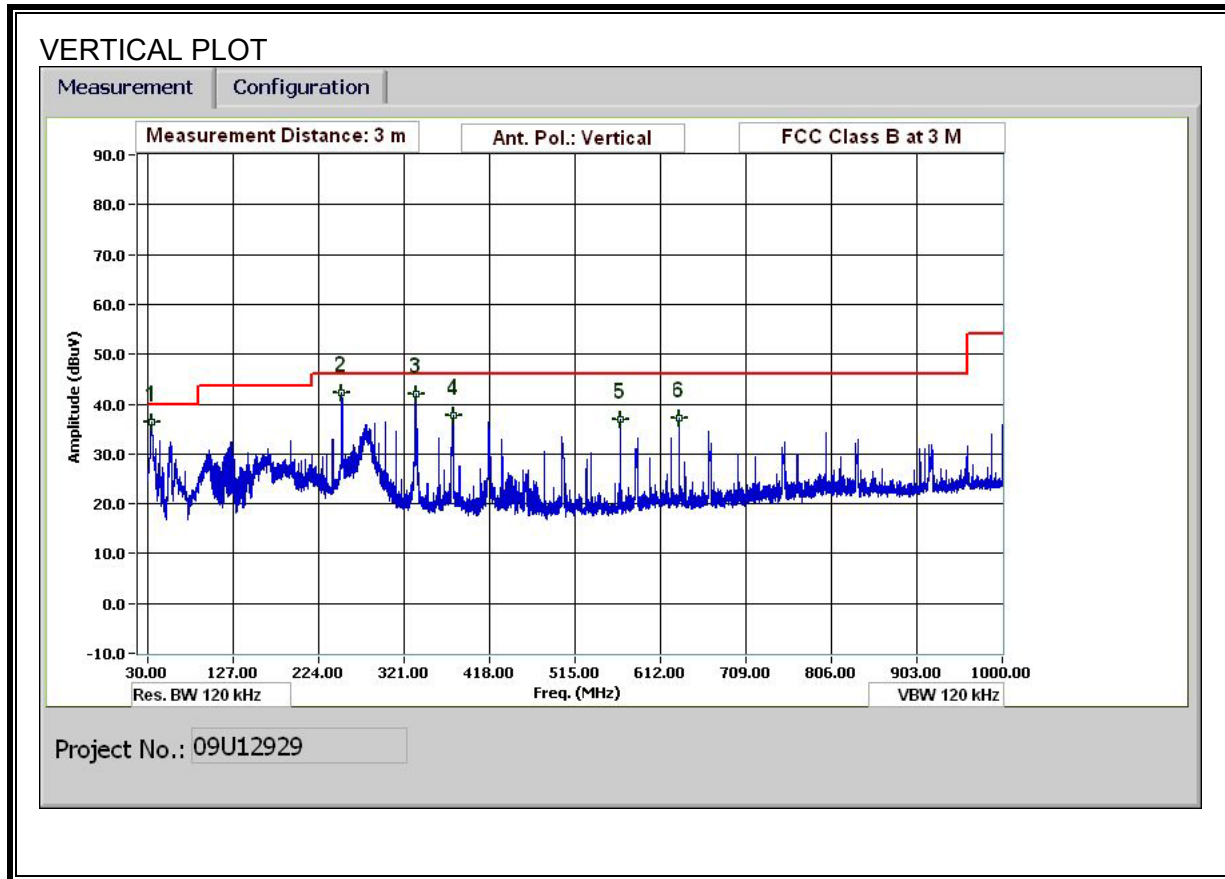
RESULTS

EUT WITH USB CABLE

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



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



EMISSIONS DATA

30-1000MHz Frequency Measurement
 Compliance Certification Services, Fremont 5m Chamber

Test Engr: Chin Pang
 Date: 11/18/09
 Project #: 09U12929
 Company: Sierra Wireless
 EUT Description: USB Modem
 EUT Configuration: EUT with USB cable and Basic peripheral
 EUT M/N: AC250U
 Test Target: FCC Class B
 Mode Oper: Normal

f Measurement Frequency Amp Preamp Gain Margin Margin vs. Limit
 Dist Distance to Antenna D Corr Distance Correct to 3 meters
 Read Analyzer Reading Filter Filter Insert Loss
 AF Antenna Factor Corr. Calculated Field Strength
 CL Cable Loss Limit Field Strength Limit

f MHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filter dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol. V/H	Det. P/A/QP	Notes
34.440	3.0	47.1	18.3	0.5	29.7	0.0	0.0	36.3	40.0	-3.7	V	P	
250.089	3.0	57.8	11.8	1.4	28.8	0.0	0.0	42.3	46.0	-3.7	V	P	
334.693	3.0	55.4	13.9	1.7	29.0	0.0	0.0	42.0	46.0	-4.0	V	P	
376.454	3.0	50.4	14.6	1.8	29.2	0.0	0.0	37.7	46.0	-8.3	V	P	
566.662	3.0	46.4	17.8	2.3	29.7	0.0	0.0	36.8	46.0	-9.2	V	P	
633.385	3.0	45.6	18.6	2.5	29.6	0.0	0.0	37.1	46.0	-8.9	V	P	
250.929	3.0	61.5	11.8	1.4	28.8	0.0	0.0	45.9	46.0	-0.1	H	P	
250.929	3.0	57.0	11.8	1.4	28.8	0.0	0.0	41.4	46.0	-4.6	H	QP	
277.690	3.0	55.2	12.6	1.5	28.8	0.0	0.0	40.6	46.0	-5.4	H	P	
334.453	3.0	54.0	13.9	1.7	29.0	0.0	0.0	40.6	46.0	-5.4	H	P	
416.656	3.0	47.1	15.3	1.9	29.4	0.0	0.0	35.0	46.0	-11.0	H	P	
566.662	3.0	48.8	17.8	2.3	29.7	0.0	0.0	39.2	46.0	-6.8	H	P	
669.386	3.0	41.8	18.9	2.5	29.6	0.0	0.0	33.6	46.0	-12.4	H	P	
920.437	3.0	38.0	21.7	3.0	28.5	0.0	0.0	34.3	46.0	-11.7	H	P	

SPURIOUS EMISSIONS ABOVE 1000 MHz (WORST-CASE CONFIGURATION)

High Frequency Measurement
 Compliance Certification Services, Fremont 5m Chamber

Company: Sierra Wireless
 Project #: 09U12929
 Date: 11/18/09
 Test Engineer: Chun Pang
 Configuration: EUT (with USB Cable) /basic peripheral
 Mode: Normal

Test Equipment:

Horn 1-18GHz	Pre-amplifier 1-26GHz	Pre-amplifier 26-40GHz	Horn > 18GHz	Limit
T59; S/N: 3245 @3m	T145 Agilent 3008A0056			FCC 15.209

Hi Frequency Cables

3' cable 22807700	12' cable 22807600	20' cable 22807500	HPF	Reject Filter	Peak Measurements RBW=VBW=1MHz
3' cable 22807700	12' cable 22807600	20' cable 22807500			Average Measurements RBW=1MHz ; VBW=10Hz

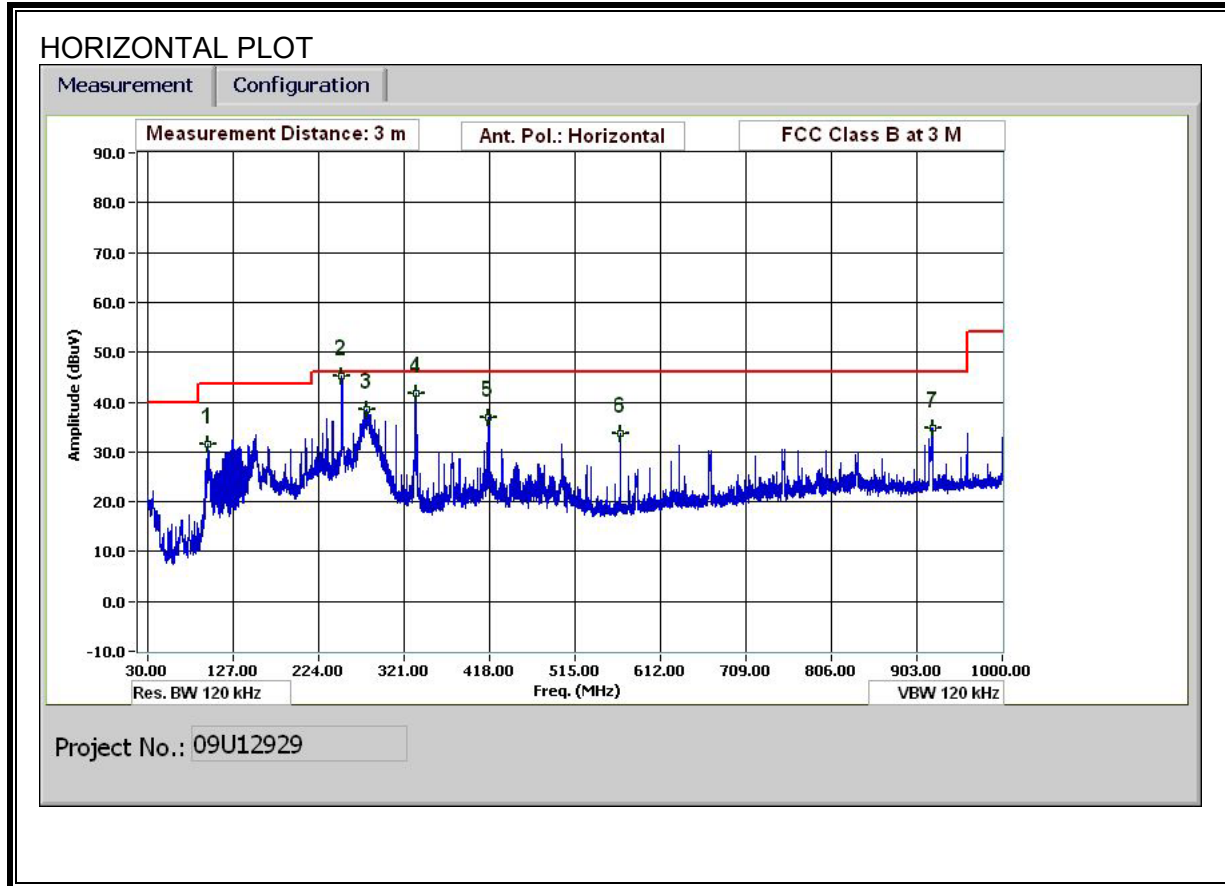
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Fltr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)
1.000	3.0	56.0	45.8	23.9	2.4	-36.2	0.0	0.0	46.2	36.0	74	54	-27.8	-18.0	Y
1.250	3.0	56.0	46.2	24.9	2.7	-36.0	0.0	0.0	47.6	37.8	74	54	-26.4	-16.2	Y
2.000	3.0	59.5	53.8	27.6	3.5	-35.4	0.0	0.0	55.2	49.5	74	54	-18.8	-4.5	Y
2.500	3.0	54.0	45.3	28.5	3.9	-35.1	0.0	0.0	51.3	42.6	74	54	-22.7	-11.4	Y
1.000	3.0	50.0	37.5	23.9	2.4	-36.2	0.0	0.0	40.2	27.7	74	54	-33.8	-26.3	H
1.250	3.0	50.0	45.6	24.9	2.7	-36.0	0.0	0.0	41.6	37.2	74	54	-32.4	-16.8	H
2.000	3.0	53.0	47.3	27.6	3.5	-35.4	0.0	0.0	48.7	43.0	74	54	-25.3	-11.0	H
2.500	3.0	57.3	42.0	28.5	3.9	-35.1	0.0	0.0	54.6	39.3	74	54	-19.4	-14.7	H

Rev. 11.10.08
Note: No other emissions were

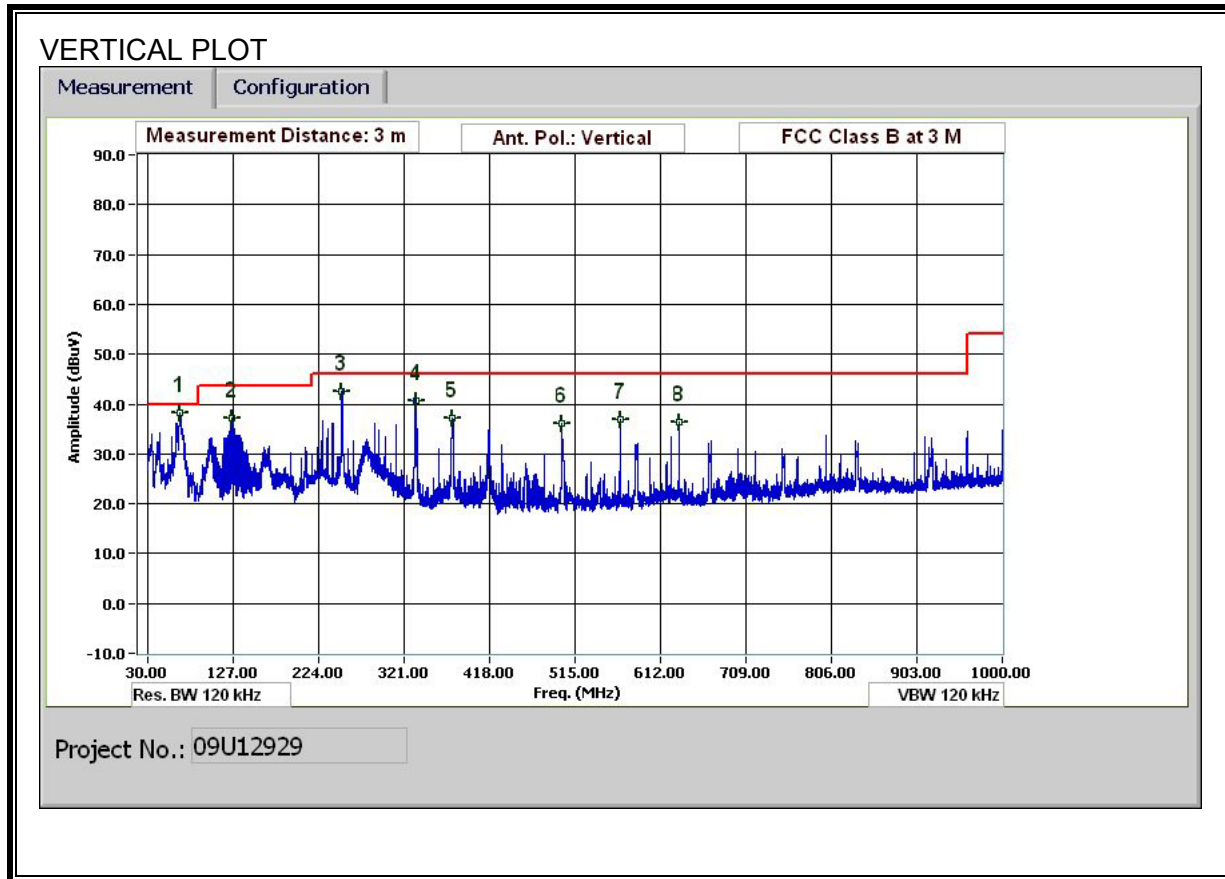
f	Measurement Frequency	Amp	Preamp Gain	Avg Lim	Average Field Strength Limit
Dist	Distance to Antenna	D Corr	Distance Correct to 3 meters	Pk Lim	Peak Field Strength Limit
Read	Analyzer Reading	Avg	Average Field Strength @ 3 m	Avg Mar	Margin vs. Average Limit
AF	Antenna Factor	Peak	Calculated Peak Field Strength	Pk Mar	Margin vs. Peak Limit
CL	Cable Loss	HPF	High Pass Filter		

EUT WITHOUT USB CABLE

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



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



EMISSIONS DATA

30-1000MHz Frequency Measurement
 Compliance Certification Services, Fremont 5m Chamber

Test Engr: Chin Pang
 Date: 11/20/09
 Project #: 09U12929
 Company: Sierra Wireless
 EUT Description: USB Modem
 Configuration: EUT (No USB Cable) with basic peripheral
 EUT M/N: AC250U
 Test Target: FCC Class B
 Mode Oper: Normal

f Measurement Frequency Amp Preamp Gain Margin Margin vs. Limit
 Dist Distance to Antenna D Corr Distance Correct to 3 meters
 Read Analyzer Reading Filter Filter Insert Loss
 AF Antenna Factor Corr. Calculated Field Strength
 CL Cable Loss Limit Field Strength Limit

f MHz	Dist (m)	Read dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filter dB	Corr. dBuV/m	Limit dBuV/m	Margin dB	Ant. Pol V/H	Det. P/A/QP	Notes
66.241	3.0	59.2	8.1	0.7	29.6	0.0	0.0	38.4	40.0	-1.6	V	P	
66.241	3.0	55.4	8.1	0.7	29.6	0.0	0.0	34.6	40.0	-5.4	V	QP	
125.284	3.0	51.7	13.8	1.0	29.4	0.0	0.0	37.1	43.5	-6.4	V	P	
250.929	3.0	57.9	11.8	1.4	28.8	0.0	0.0	42.4	46.0	-3.6	V	P	
333.373	3.0	54.3	13.9	1.7	29.0	0.0	0.0	40.9	46.0	-5.1	V	P	
375.014	3.0	49.9	14.6	1.8	29.2	0.0	0.0	37.2	46.0	-8.8	V	P	
499.939	3.0	46.9	16.8	2.1	29.7	0.0	0.0	36.1	46.0	-9.9	V	P	
566.662	3.0	46.5	17.8	2.3	29.7	0.0	0.0	36.9	46.0	-9.1	V	P	
633.385	3.0	45.0	18.6	2.5	29.6	0.0	0.0	36.4	46.0	-9.6	V	P	
98.403	3.0	50.5	9.7	0.9	29.5	0.0	0.0	31.5	43.5	-12.0	H	P	
250.089	3.0	60.7	11.8	1.4	28.8	0.0	0.0	45.2	46.0	-0.8	H	P	
250.089	3.0	56.9	11.8	1.4	28.8	0.0	0.0	41.4	46.0	-4.6	H	QP	
279.250	3.0	53.1	12.7	1.5	28.8	0.0	0.0	38.5	46.0	-7.5	H	P	
334.573	3.0	55.1	13.9	1.7	29.0	0.0	0.0	41.7	46.0	-4.3	H	P	
416.656	3.0	49.1	15.3	1.9	29.4	0.0	0.0	37.0	46.0	-9.0	H	P	
566.662	3.0	43.2	17.8	2.3	29.7	0.0	0.0	33.6	46.0	-12.4	H	P	
920.437	3.0	38.5	21.7	3.0	28.5	0.0	0.0	34.7	46.0	-11.3	H	P	

SPURIOUS EMISSIONS ABOVE 1000 MHz (WORST-CASE CONFIGURATION)

High Frequency Measurement																	
Compliance Certification Services, Fremont 5m Chamber																	
Company: Sierra Wireless																	
Project #: 09U12929																	
Date: 11/18/09																	
Test Engineer: Chun Pang																	
Configuration: EUT (without USB Cable) /basic peripheral																	
Mode: Normal																	
Test Equipment:																	
Horn 1-18GHz			Pre-amplifer 1-26GHz			Pre-amplifer 26-40GHz			Horn > 18GHz			Limit					
T59; S/N: 3245 @3m			T145 Agilent 3008A0056									FCC 15.209					
Hi Frequency Cables																	
3' cable 22807700			12' cable 22807600			20' cable 22807500			HPF			Reject Filter			Peak Measurements RBW=VBW=1MHz Average Measurements RBW=1MHz ; VBW=10Hz		
3' cable 22807700			12' cable 22807600			20' cable 22807500											
f GHz	Dist (m)	Read Pk dBuV	Read Avg. dBuV	AF dB/m	CL dB	Amp dB	D Corr dB	Filtr dB	Peak dBuV/m	Avg dBuV/m	Pk Lim dBuV/m	Avg Lim dBuV/m	Pk Mar dB	Avg Mar dB	Notes (V/H)		
1.067	3.0	54.8	44.0	24.2	2.4	-36.1	0.0	0.0	45.3	34.5	74	54	-28.7	-19.5	V		
1.250	3.0	55.0	40.0	24.9	2.7	-36.0	0.0	0.0	46.6	31.6	74	54	-27.4	-22.4	V		
2.000	3.0	58.5	53.8	27.6	3.5	-35.4	0.0	0.0	54.2	49.5	74	54	-19.8	-4.5	V		
2.500	3.0	52.0	44.8	28.5	3.9	-35.1	0.0	0.0	49.3	42.1	74	54	-24.7	-11.9	V		
1.000	3.0	50.0	37.5	23.9	2.4	-36.2	0.0	0.0	40.2	27.7	74	54	-33.8	-26.3	H		
1.250	3.0	53.0	39.5	24.9	2.7	-36.0	0.0	0.0	44.6	31.1	74	54	-29.4	-22.9	H		
2.000	3.0	53.0	46.0	27.6	3.5	-35.4	0.0	0.0	48.7	41.7	74	54	-25.3	-12.3	H		
2.500	3.0	57.3	42.1	28.5	3.9	-35.1	0.0	0.0	54.6	39.4	74	54	-19.4	-14.6	H		
Rev. 11.10.08																	
f	Measurement Frequency					Amp	Preamp Gain					Avg Lim	Average Field Strength Limit				
Dist	Distance to Antenna					D Corr	Distance Correct to 3 meters					Pk Lim	Peak Field Strength Limit				
Read	Analyzer Reading					Avg	Average Field Strength @ 3 m					Avg Mar	Margin vs. Average Limit				
AF	Antenna Factor					Peak	Calculated Peak Field Strength					Pk Mar	Margin vs. Peak Limit				
CL	Cable Loss					HPF	High Pass Filter										

7.2. AC MAINS LINE CONDUCTED EMISSIONS

TEST PROCEDURE

ANSI C63.4

LIMIT

§15.107 (a) Except for Class A digital devices, for equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). Compliance with the provisions of this paragraph shall be based on the measurement of the radio frequency voltage between each power line and ground at the power terminal. The lower limit applies at the band edges.

Frequency range (MHz)	Limits (dB μ V)	
	Quasi-peak	Average
0.15 to 0.50	66 to 56	56 to 46
0.50 to 5	56	46
5 to 30	60	50

Notes:
1. The lower limit shall apply at the transition frequencies
2. The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

RESULTS

6 WORST EMISSIONS

EUT WITH USB CABLE

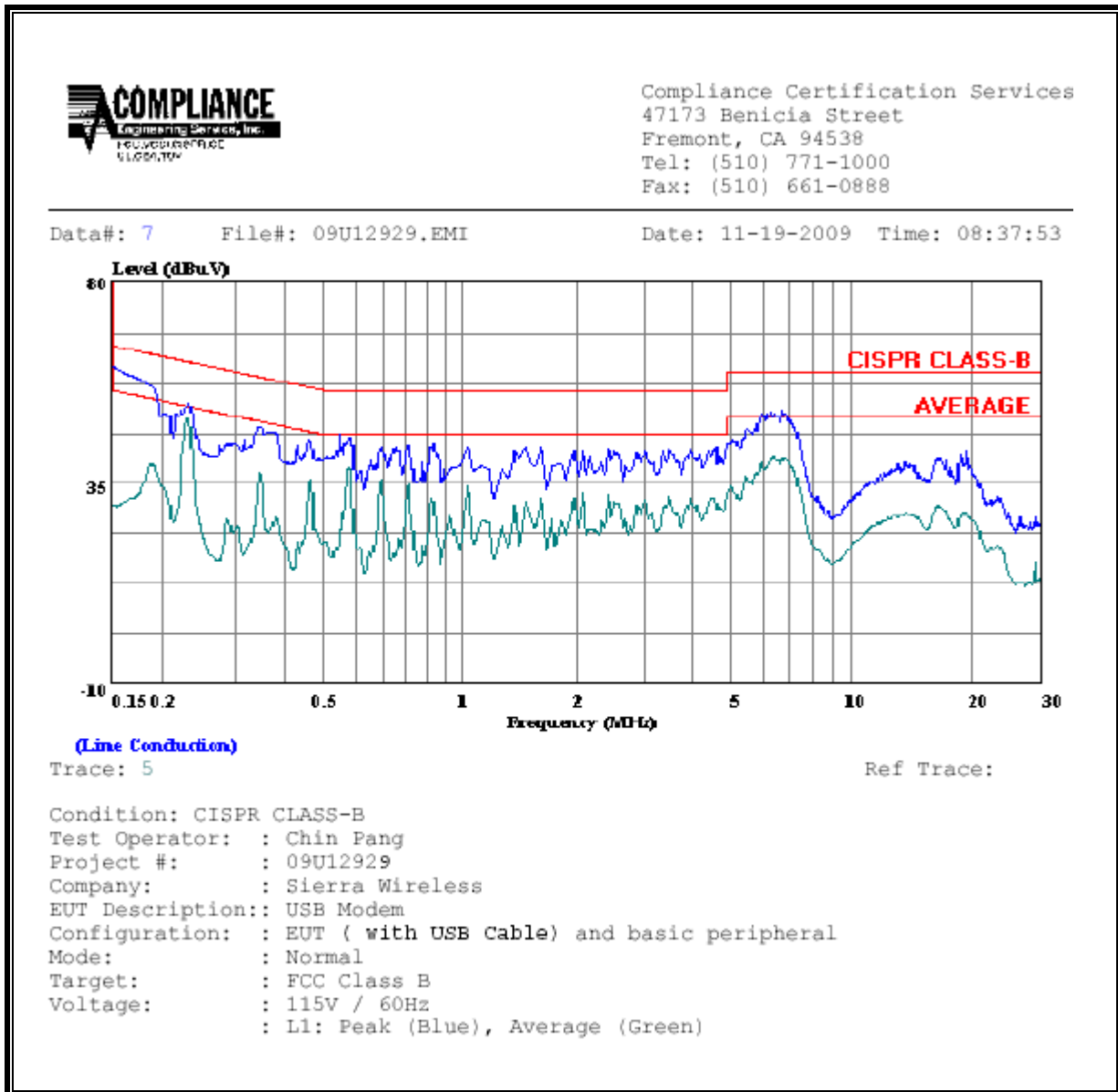
CONDUCTED EMISSIONS DATA (115VAC 60Hz)										
Freq. (MHz)	Reading			Class (dB)	Limit QP	EN B		Margin		Remark L1 / L2
	PK (dBuV)	QP (dBuV)	AV (dBuV)			AV	QP (dB)	AV (dB)		
0.23	52.27	--	49.61	0.00	62.49	52.49	-10.22	-2.88	L1	
0.58	45.16	--	38.78	0.00	56.00	46.00	-10.84	-7.22	L1	
6.84	50.66	--	41.10	0.00	60.00	50.00	-9.34	-8.90	L1	
0.23	52.57	--	50.67	0.00	62.31	52.31	-9.74	-1.64	L2	
0.57	45.74	--	40.32	0.00	56.00	46.00	-10.26	-5.68	L2	
6.49	50.65	--	40.72	0.00	60.00	50.00	-9.35	-9.28	L2	
6 Worst Data										

EUT WITHOUT USB CABLE

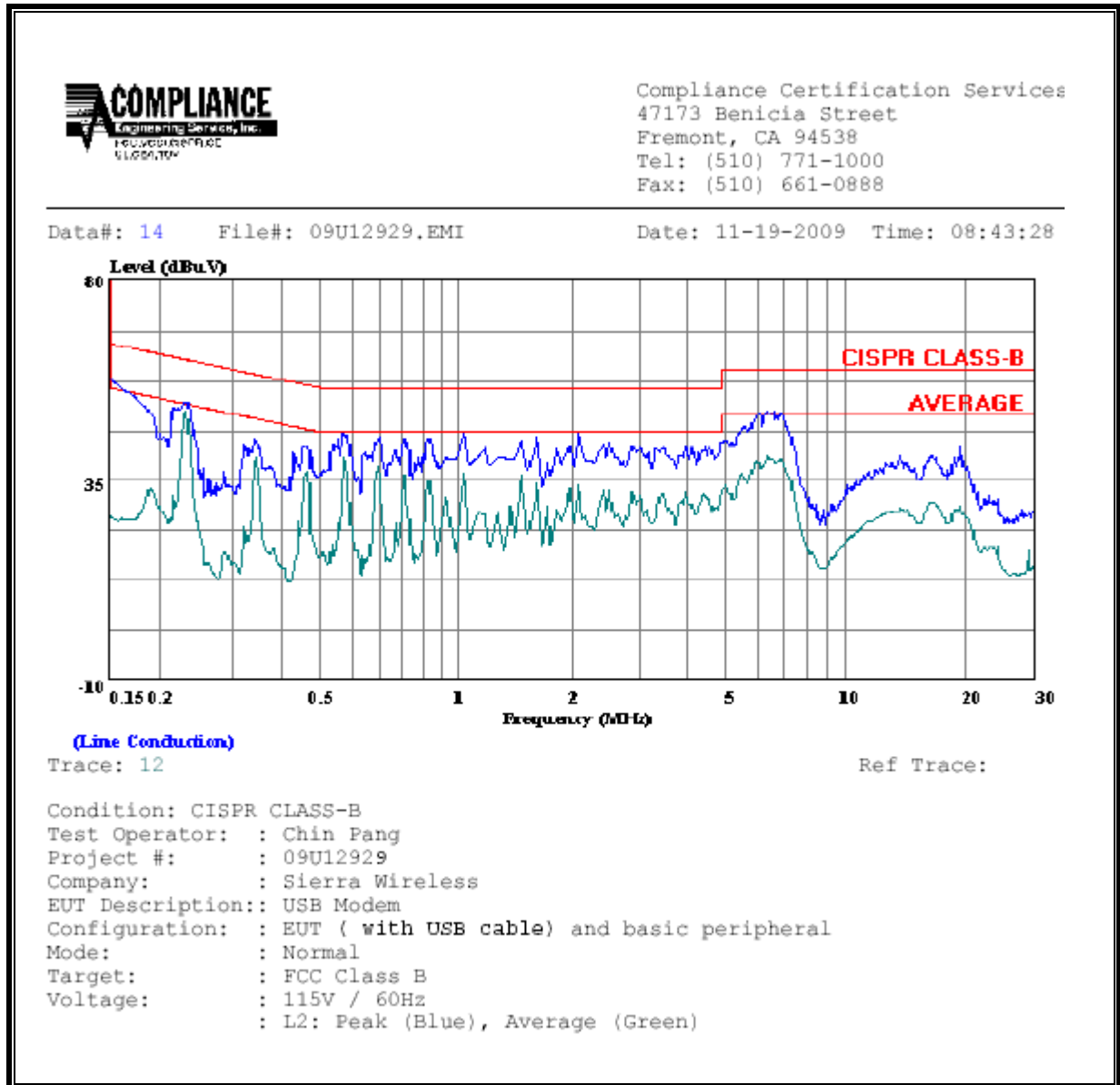
CONDUCTED EMISSIONS DATA (115VAC 60Hz)										
Freq. (MHz)	Reading			Class (dB)	Limit QP	EN B		Margin		Remark L1 / L2
	PK (dBuV)	QP (dBuV)	AV (dBuV)			AV	QP (dB)	AV (dB)		
0.21	53.88	--	44.62	0.00	63.05	53.05	-9.17	-8.43	L1	
0.48	45.40	--	36.02	0.00	56.32	46.32	-10.92	-10.30	L1	
6.95	50.78	--	40.57	0.00	60.00	50.00	-9.22	-9.43	L1	
0.22	50.19	--	44.54	0.00	62.97	52.97	-12.78	-8.43	L2	
0.60	43.77	--	38.47	0.00	56.00	46.00	-12.23	-7.53	L2	
7.10	51.11	--	41.02	0.00	60.00	50.00	-8.89	-8.98	L2	
6 Worst Data										

EUT WITH USB CABLE

LINE 1 RESULTS

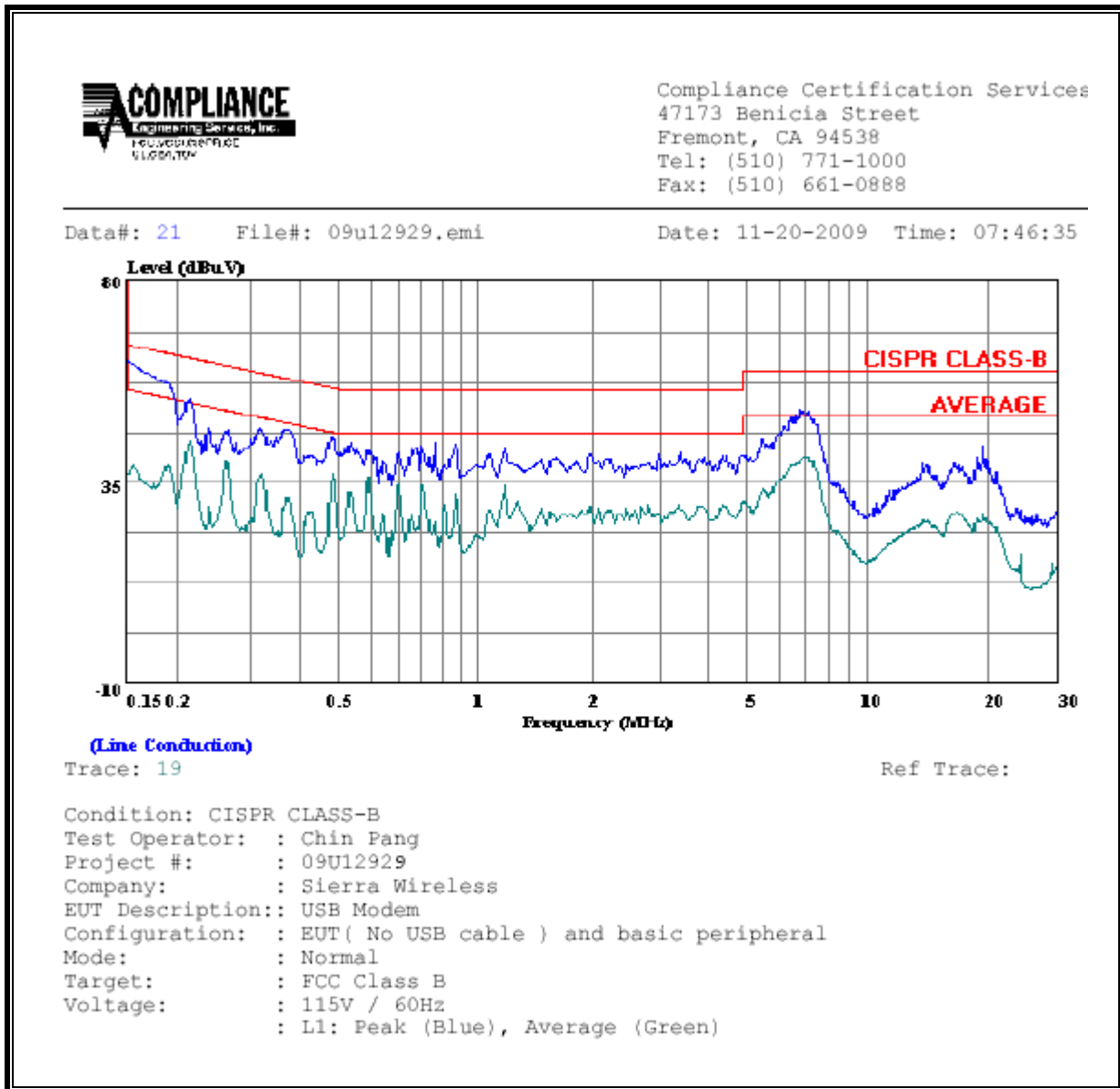


LINE 2 RESULTS

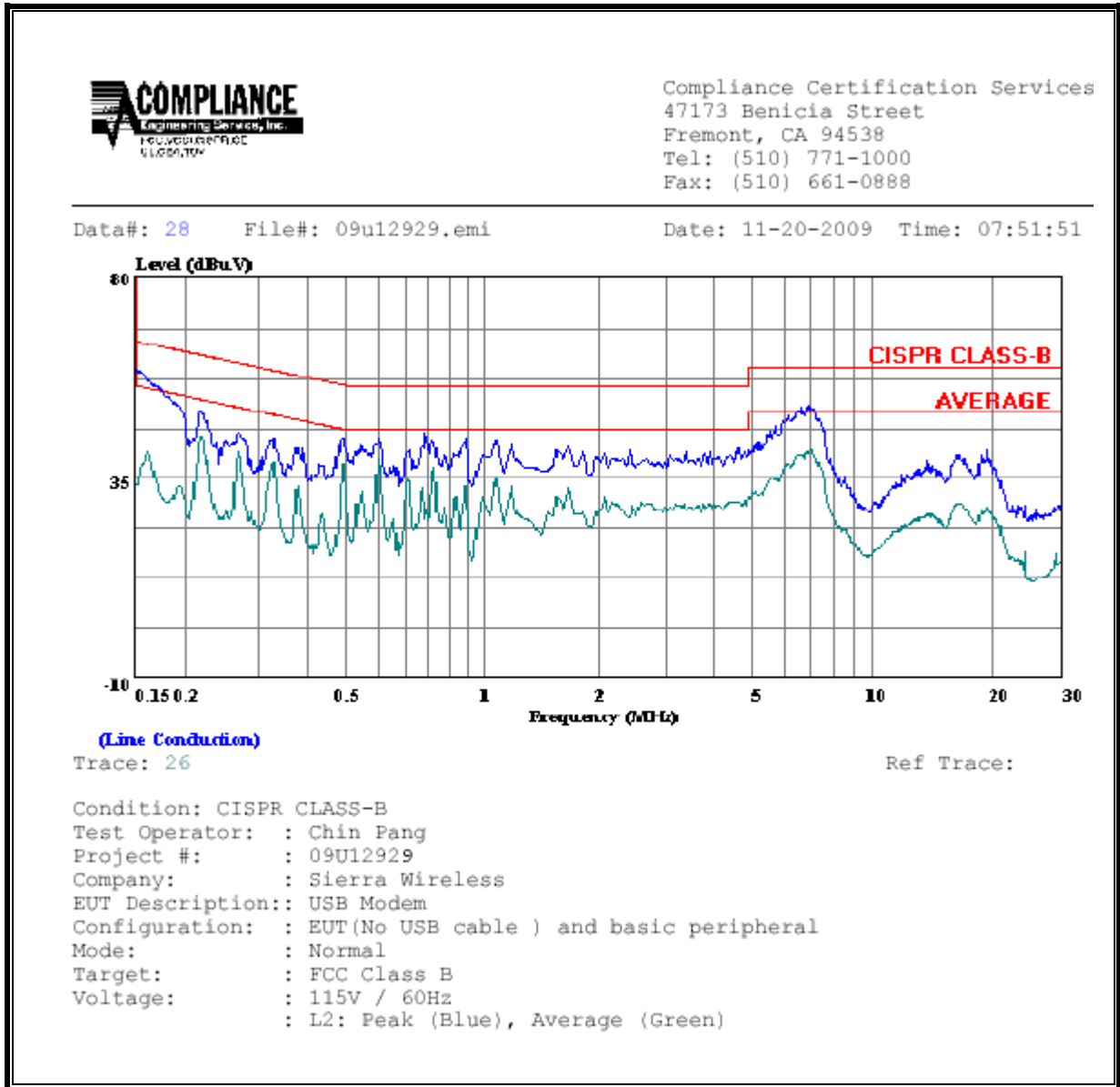


EUT WITHOUT USB CABLE

LINE 1 RESULTS

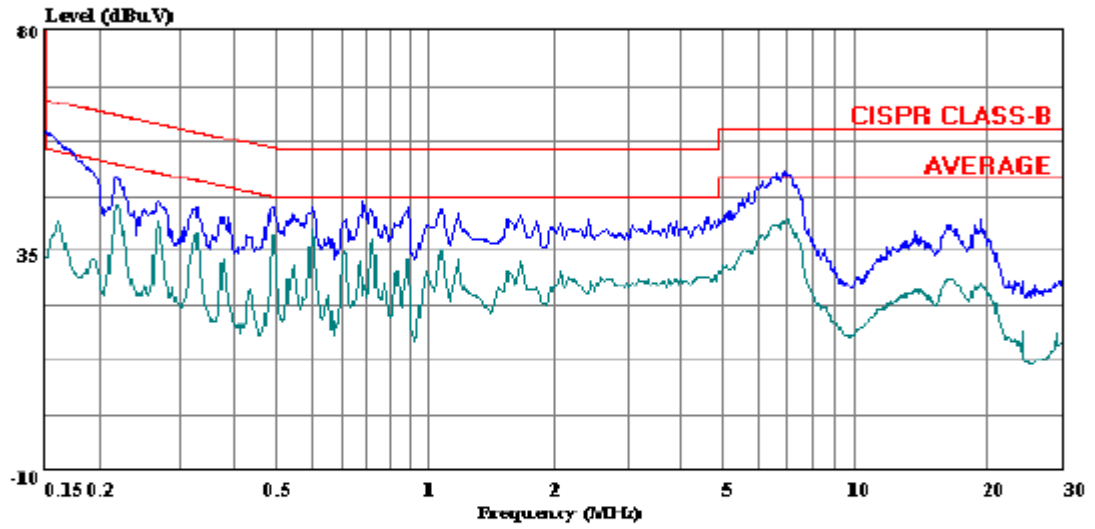


LINE 2 RESULTS



Compliance Certification Services
47173 Benicia Street
Fremont, CA 94538
Tel: (510) 771-1000
Fax: (510) 661-0888

Data#: 28 File#: 09u12929.emi Date: 11-20-2009 Time: 07:51:51



(Line Conduction)

Trace: 26 Ref Trace:

Condition: CISPR CLASS-B
Test Operator: : Chin Pang
Project #: : 09U12929
Company: : Sierra Wireless
EUT Description: : USB Modem
Configuration: : EUT(No USB cable) and basic peripheral
Mode: : Normal
Target: : FCC Class B
Voltage: : 115V / 60Hz
: L2: Peak (Blue), Average (Green)