TUV Rheinland of North America

Electromagnetic Compatibility

EMC Report

For

Description: Sensor Network Adapter

Model: 2400E WITH 2 DIFFERENT ANTENNAS

Applicant: Daintree Networks, Inc.

TUV Rheinland of North America, Inc., North American Headquarters, 12 Commerce Road, Newtown, CT 06470 - Tel (203)426-0888 - Fax (203)426-4009

TÜV TUV Rheinland of North America

Test Report Number: Prübericht Nr.:	**30561247.001 Daintree 2400E.doc**		**Test Report Summary**
Applicant: Auftraggeber:	Daintree Networks, Inc. 111 N. Market Street, Suite 615 San Jose, CA 95113	Tel: (408) 351-3646 Fax: (408) 351-3330 pcobb@daintree.net	Peter Cobb
Type of Equipment: Gegenstand der Prüfung:	Sensor Network Adapter		
Model Number: Bezeichnung:	**2400E**	**Trademark:** Ursprungszeichen:	
Standards: Prufgrundlage:	See details below	**Date of Testing:**	May 18th-28th, 2005

Standard Number	Description	Severity Level or Limit	Minimum Acceptable Performance Criteria	Summary Result
FCC Part 15.249	**Operation within the bands 902-928 MHz, 2400-2483.5 MHz, 5725-5875 MHz and 24.0-24.25 GHz**	**See Below**	**See Below**	**See Below**
Section 15.249 (a)	Field Strength emissions within Frequency Band	Fundamental 50µV/m, Harmonic 500µV/m	NA	**Complied**
Section 15.249 (b)	Test Conditions	As per section 15.249 (b), 1), 2), 3)	NA	**Complied**
Section 15.249 (c)	Test Distance	Field strength measurement done at 3m distance	NA	**Complied**
Section 15.249 (d)	Radiated Emissions outside the Frequency Band	Complies with FCC Part 15.209	NA	**Complied**
Section 15.249 (e)	Maximum permitted Average	Not exceed the maximum permitted average limit by more than 20dB above 1000MHz	NA	**Complied**
Section 15.207 (a)	Conducted Emissions	As per section 15.207 (a)	NA	**Complied**
Section 15.209 (b)	Radiated Emissions	As per section 15.209(a)	NA	**Complied**

The tests performed were as requested by the grantee in order to verify that changes made to product do not change the results of tests previously performed and reported for certification purposes. For this purpose, only the tests shown were carried out.

All data covered in this report is covered by the NVLAP accreditation.

Place of Test: Prüfort	TUV Rheinland of North America, 12 Commerce Road, Newtown, CT 06470 USA E-mail: info-new@tuv.com Phone: (203) 426-0888 Web: http://www.tuv.com Fax: (203) 429-4009	NVLAP FOR THE SCOPE OF ACCREDITATION UNDER NVLAP LAB CODE 200111-0
Test Result: Prüfergebnis:	Unit presented for testing complied with criteria shown above. Additional information is contained in the following pages.	
Tested By: Der Sachverständige:	**Dieter Baldamus**	**Checked By:** Geprüft: **Bruce Fagley**
15June2005 **Date, Signature** Datum, Unterschrift		15June2005 **Date, Signature** Datum, Unterschrift

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1. Table of Contents

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2. Measuring Equipment Used

Description	Asset or Serial Number	Calibrated	Cal. Period
California Instruments 5001iX	HK53766	06/04	1 yr.
EMCO 3115	9402-4227	02/04	1 yr.
EMCO 3109	9310-2754	03/05	1 yr.
EMCO 3146	2548	02/05	1 yr.
NLSK 8126A LISN	8126277	01/05	1 yr.
HP 8546A	3325A00134	08/04	1 yr.

2.1 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, to equivalent nationally recognized standards organizations.

2.2 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

2.3 Measurement Uncertainty

☐	The estimated combined standard uncertainty for ESD immunity measurements is ± 4.1%.
☐	The estimated combined standard uncertainty for radiated immunity measurements is ± 2.7dB.
☐	The estimated combined standard uncertainty for EFT fast transient immunity measurements is ± 5.8%.
☐	The estimated combined standard uncertainty for surge immunity measurements is ± 8.0%.
☐	The estimated combined standard uncertainty for conducted immunity measurements is ± 1.5dB.
☐	The estimated combined standard uncertainty for power frequency magnetic field immunity measurements is ± 0.58%.
☐	The estimated combined standard uncertainty for voltage variation and interruption measurements is ± 4.3%.
☐	The estimated combined standard uncertainty for damped oscillatory wave immunity measurements is ± 8.7%.
☒	The estimated combined standard uncertainty for radiated emissions measurements is ± 1.6 dB.
☒	The estimated combined standard uncertainty for conducted emissions measurements is ± 1.2dB.
☐	The estimated combined standard uncertainty for harmonic current and flicker measurements is ± 11.6%.

2.4 Location of original data

The original copies of all test data taken during actual testing were either contained within the body of this report or were attached at Appendix B. The originals were delivered to the applicant. A copy has been retained in the TUV Rheinland file for certification follow-up purposes.

2.5 Status of facility used for testing

The TUV Rheinland of North America EMC test facility located at 12 Commerce Road, Newtown, CT, USA is listed on the US Federal Communications Commission list of facilities approved to perform measurements and has been audited and found acceptable by TUV Rheinland GmbH, Cologne, Germany, a competent body in the European Union.

3. Description of Equipment Tested

3.1 General Description of Equipment

The Daintree Networks Sensor Network Adapter is a data capture accessory for the Sensor Network Analyzer. It acts as an observation point enabling the use of Daintree's Sensor Network Analyzer software in live IEEE 802.15.4™ and ZigBee™ network environments. The adapter provides both Ethernet and USB interfaces.

4. Test Conditions

All emissions tests were performed using the procedures of ANSI C63.4: 2003 including methods for signal maximizations and EUT configuration. The photos included with the report show the EUT in its maximized configuration.

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APPENDIX A: TEST DATA

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Input Voltage Variation:

The evaluation of the results was investigated using input power variations from 85% to 115% of nominal voltage.

No variation on the emission levels were observed as a result of the input power variation.

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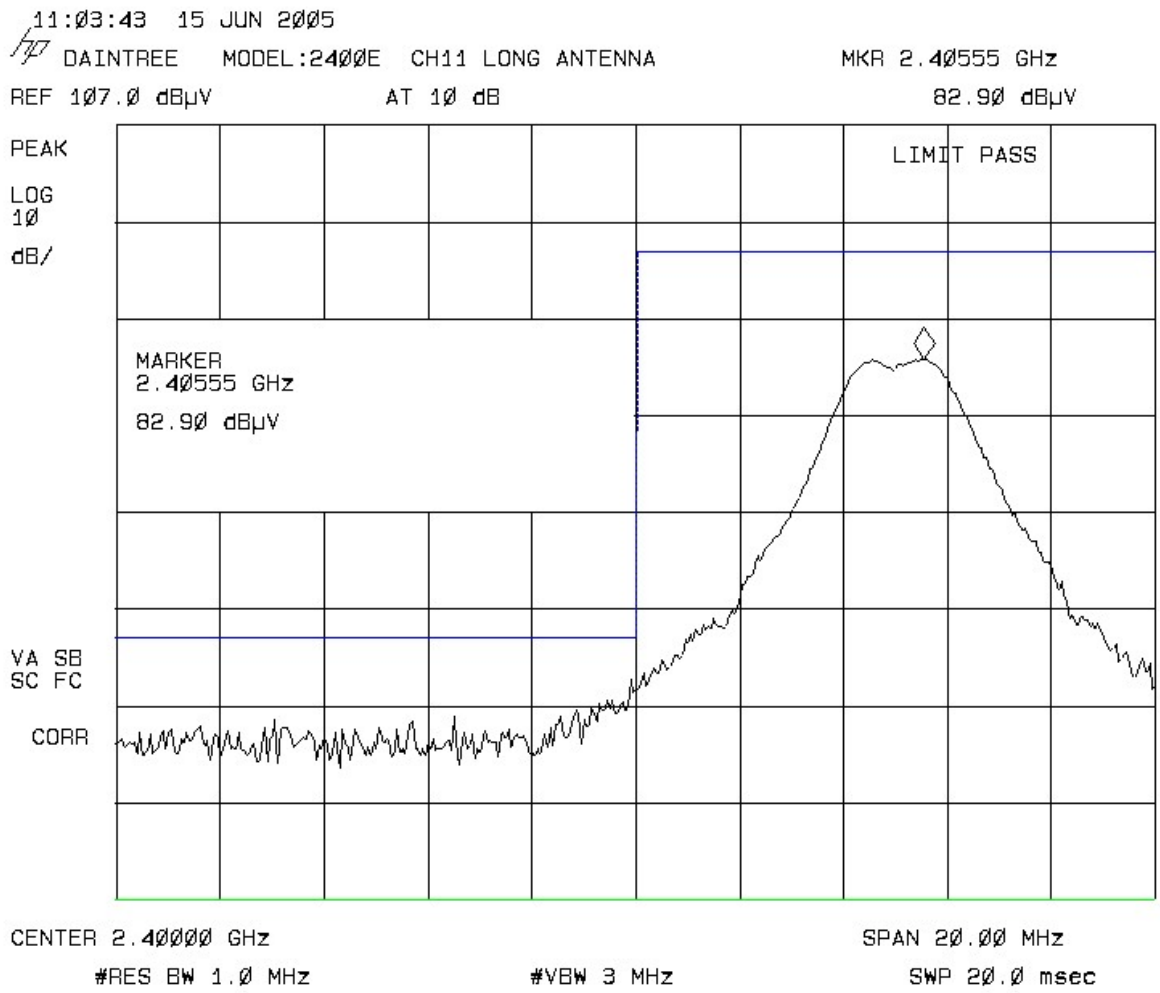
NOTES: Fundamental Emissions FCC Part 15.249 (a)
2400MHz-2483.5MHz
50mV/m Fundamental (94dBµV/m)
CH 11 (lower channel)



ANTENNA/COUPLER:

☐ 9124 Bicon	☐ 3109 Bicon	☐ CBL6140 X-Wing	☐ NNB-4/63TL LISN
☐ 3146 Log Per	☒ 3115 Horn	☐ MDS–21 Clamp	☐ NNB-4/200X LISN
☐ 3106 Horn	☐ CBL6112B Bilog	☐ NSLK 8126 LISN	☐ Other_____

MEAS TYPE:	POLARIZATION:	DISTANCE:	LOCATION:
☐ Radiated Prescan	☒ Vertical	☒ 3 Meter	☐ OATS
☒ Radiated Final	☒ Horizontal	☐ 10 Meter	☒ Semi-Anechoic
☐ Conducted	☐ Line	☐ ____Meter	☐ Shielded Room
☐ Disturbance Power	☐ Neutral	☐ NA	☐ Factory Floor
☐ Other_____	☐ NA		☐ Other_____

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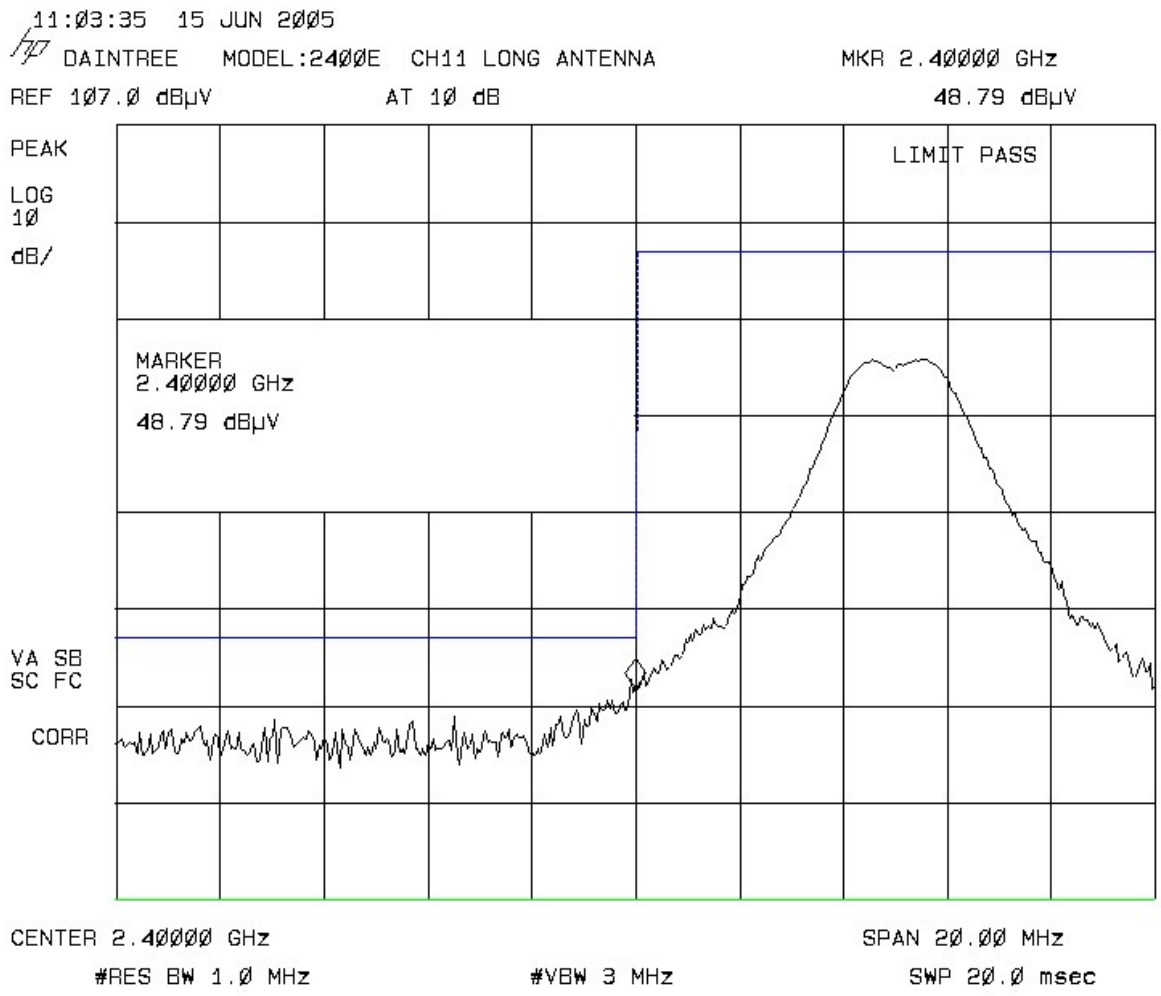
NOTES:

Fundamental Emissions FCC Part 15.249 (a)
Band-Edge Measurement
2400MHz-2483.5MHz
50mV/m Fundamental (94dBµV/m)
CH 11 (lower channel)



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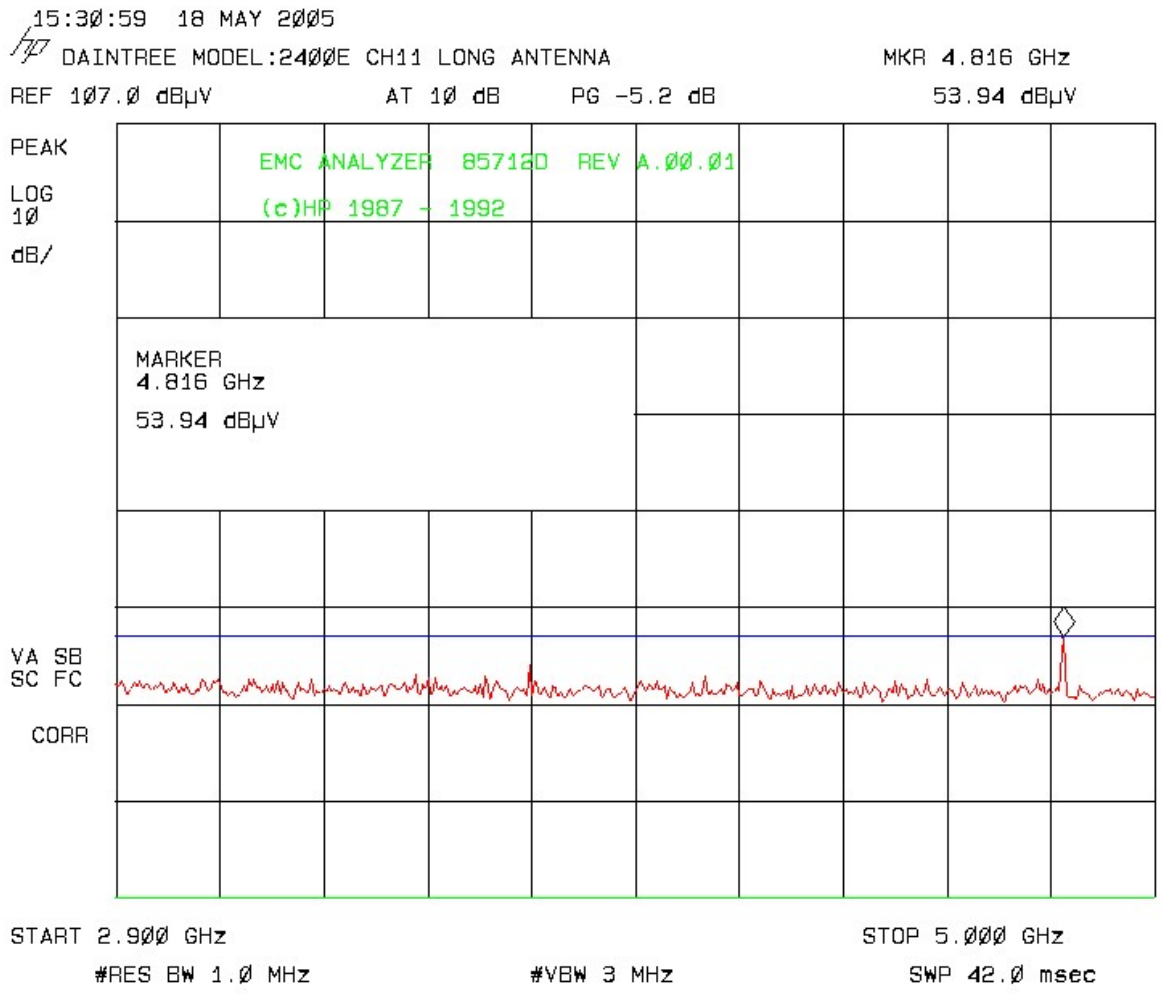
☐ Disturbance Power	☐ Neutral	☐ NA	☐ Factory Floor
☐ Other_____	☐ NA		☐ Other_____

TUV Rheinland of North America

NOTES:	Fundamental Emissions FCC Part 15.249 (a) 2400MHz-2483.5MHz 500µV/m harmonic (54dBµV/m) CH 11 (lower channel)



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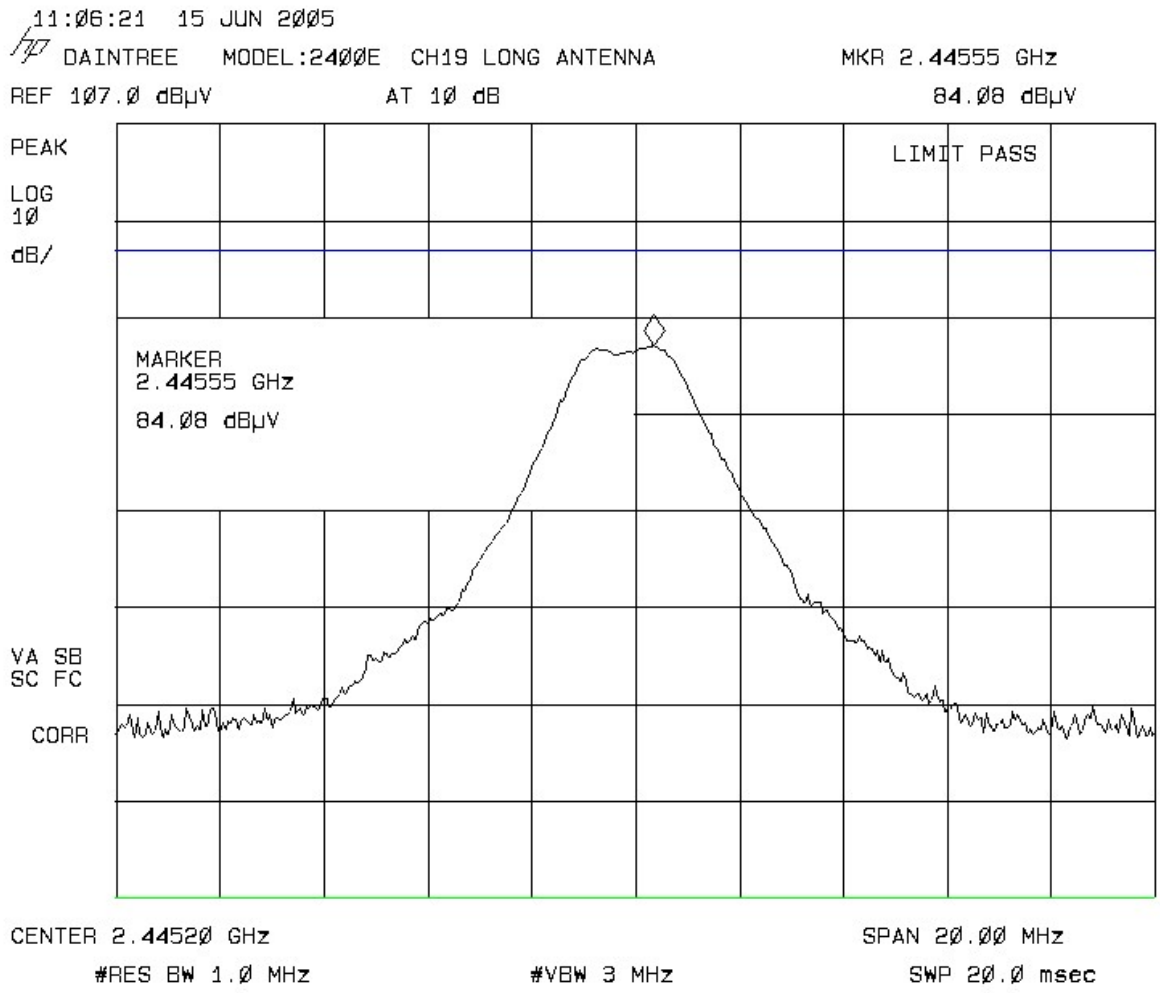
NOTES:	Fundamental Emissions FCC Part 15.249 (a) 2400MHz-2483.5MHz 50mV/m Fundamental (94dBµV/m) CH 19 (middle channel)



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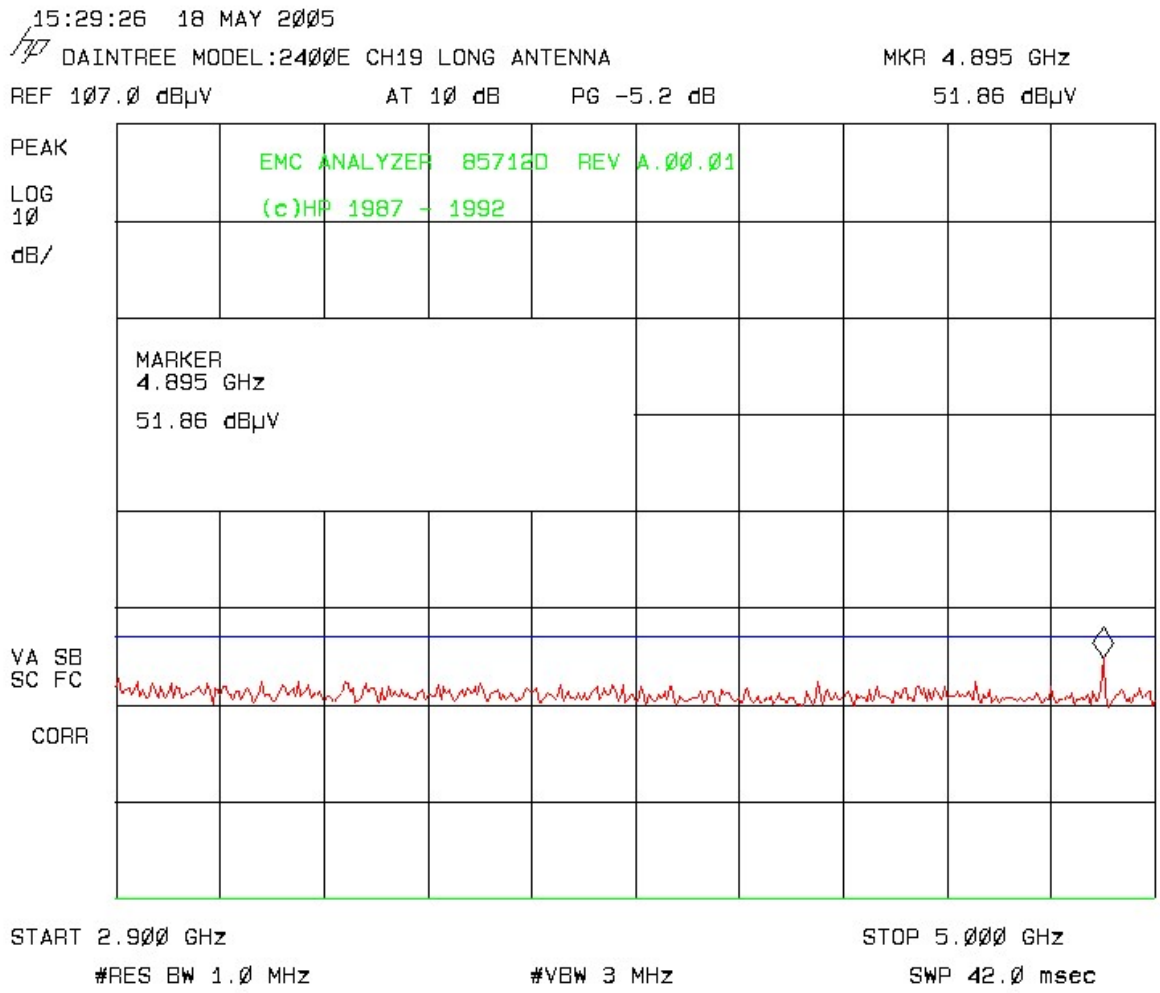
NOTES: Fundamental Emissions FCC Part 15.249 (a)
2400MHz-2483.5MHz
500µV/m harmonic (54dBµV/m)
CH 19 (middle channel)



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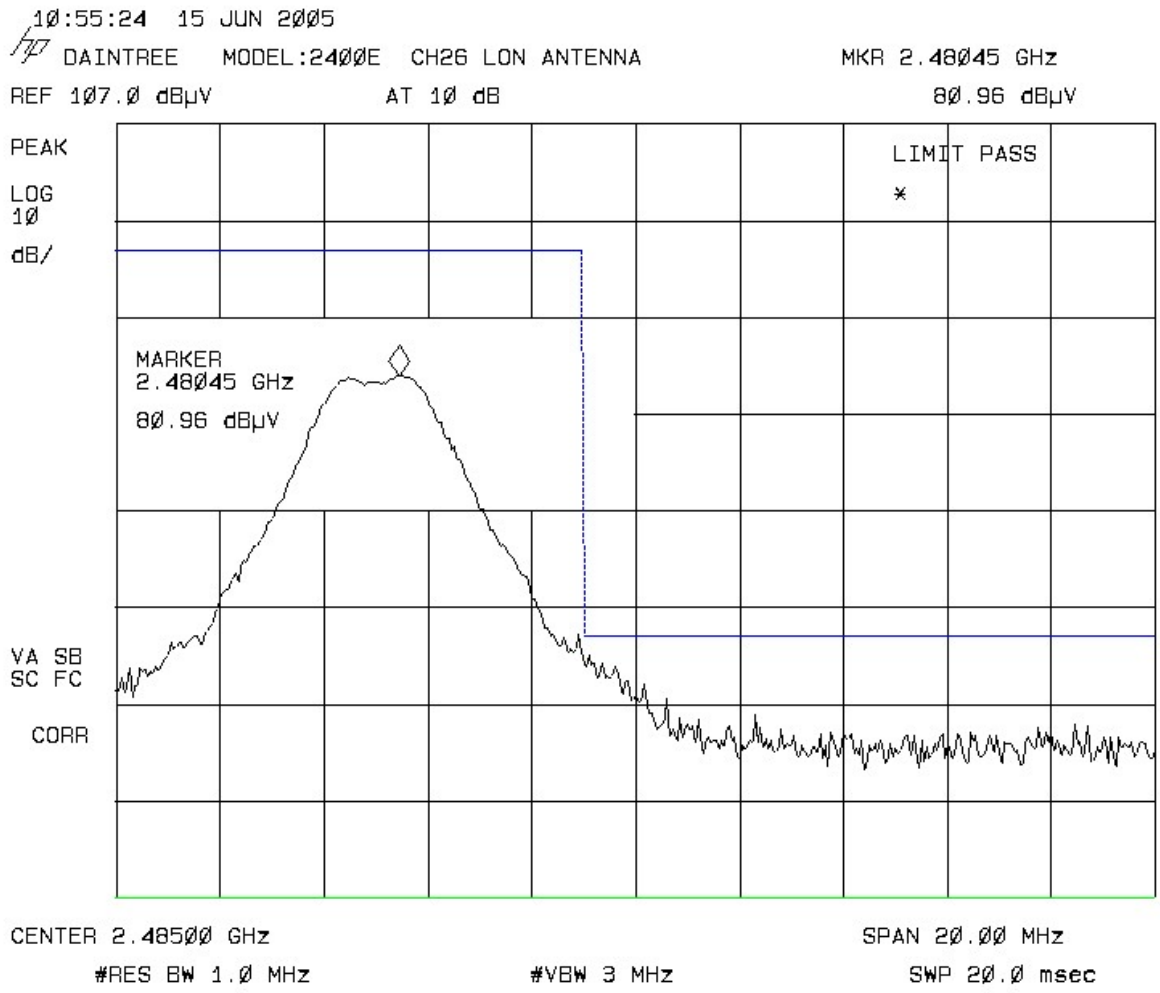
NOTES:	Fundamental Emissions FCC Part 15.249 (a) 2400MHz-2483.5MHz 50mV/m Fundamental (94dBµV/m) CH 26 (higher channel)



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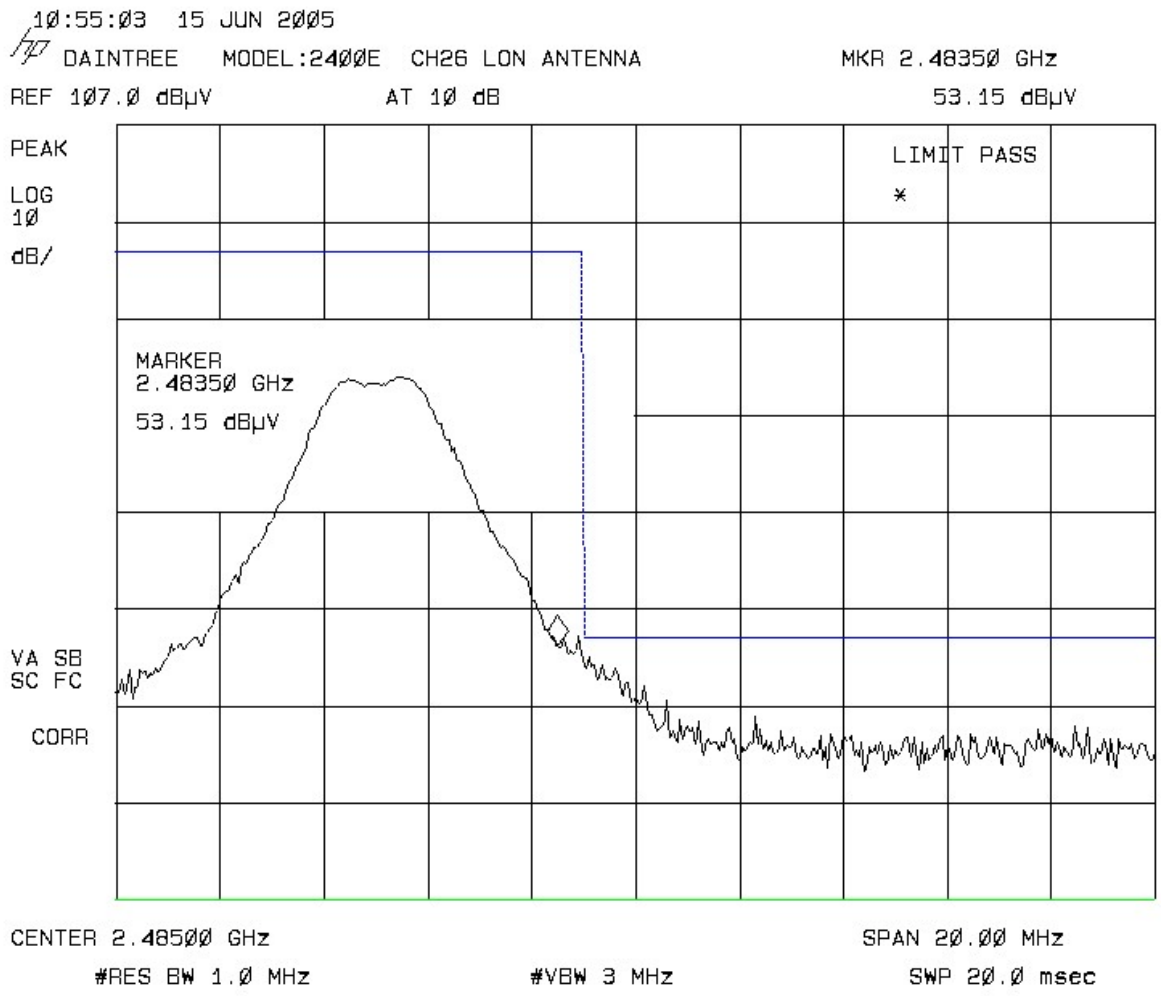

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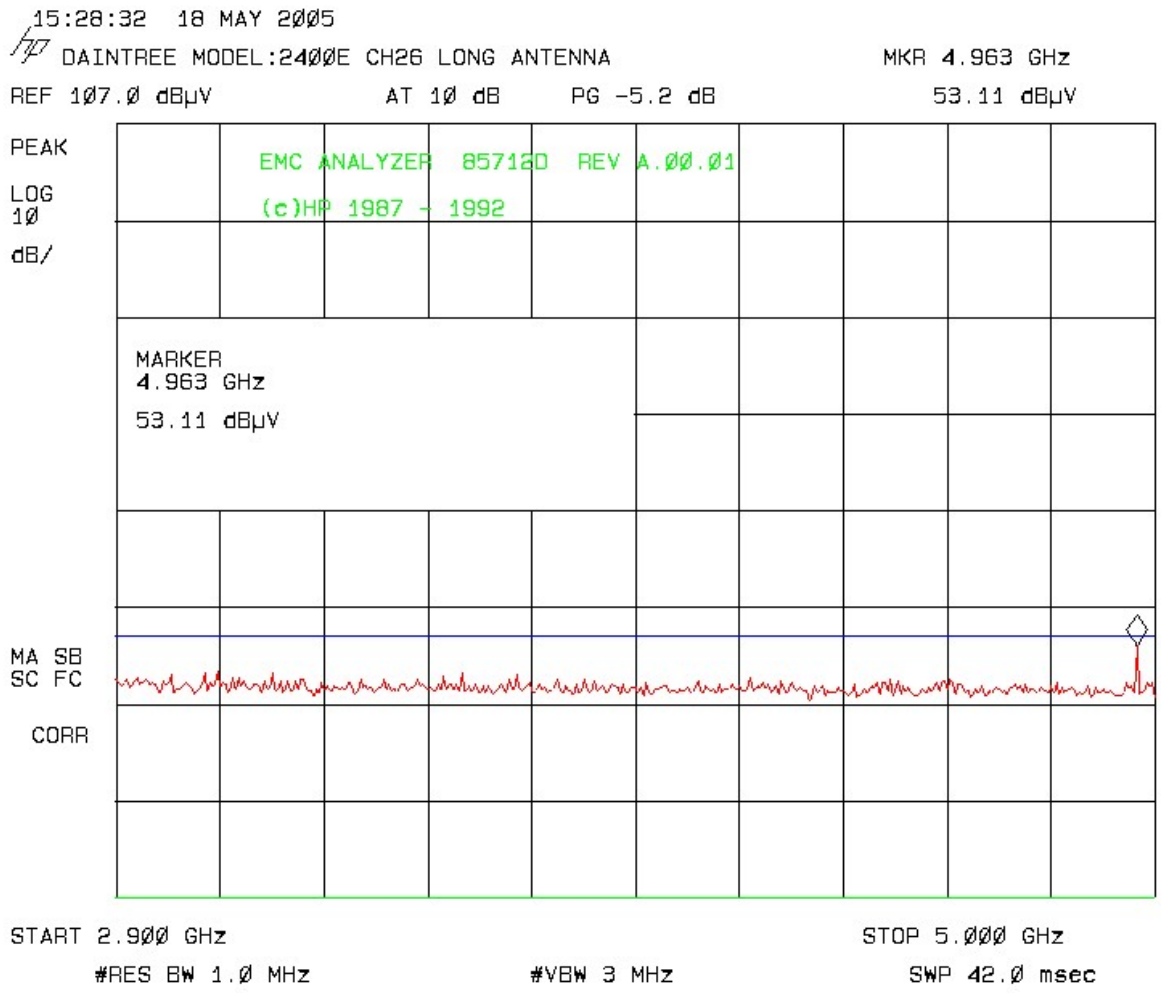

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Emissions Measurements

Standard:	ANSI C63.4:2003/ CFR 47 FCC Part 15.249								***PRESCAN or FINAL:***	Final						***Date:***	5/25/2005	
Device Tested:	Daintree - 2400E								***Distance:***	3.0m						***File:***	05052503.xls	
		Measured Level			Antenna + Cable-Amplifier Correction Factor (included in measured levels)	Peak Limit	Average Limit	Peak Δ	Average Δ	Peak Result	Average Result	Polarization	Angle (degrees)	Antenna Height (meters)	Comment			
Meas #	Signal Type	Freq (GHz)	Peak (dBµV/m)	Average (dBµV/m)														
1	Fundmental CH 11	2.4056	82.90	81.61	0.10	114	94	-31.10	-12.39	Complied	Complied	Vertical	180	1.00	Worst case condition			
2	Band-Edge CH11	2.4000	48.79	41.08	0.10	74	54	-25.21	-12.92	Complied	Complied	Vertical	154	1.00	Worst case condition			
3	2 Harmonic CH11	4.8160	53.44	44.60	6.20	74	54	-20.56	-9.40	Complied	Complied	Vertical	132	1.00	Worst case condition			
4	Fundmental CH 19	2.4456	84.08	82.70	0.10	114	94	-29.92	-11.30	Complied	Complied	Vertical	150	1.00	Worst case condition			
5	2 Harmonic CH 19	4.8950	51.86	42.00	6.20	74	54	-22.14	-12.00	Complied	Complied	Vertical	185	1.00	Worst case condition			
6	Fundmental CH 26	2.4805	80.96	83.07	0.10	114	94	-33.04	-10.93	Complied	Complied	Vertical	175	1.00	Worst case condition			
7	Band-Edge CH 26	2.4835	53.15	46.30	0.10	74	54	-20.85	-7.70	Complied	Complied	Vertical	178	1.00	Worst case condition			
8	2 Harmonic CH 26	4.9630	53.11	40.94	6.20	74	54	-20.89	-13.06	Complied	Complied	Vertical	134	1.00	Worst case condition			
Tested by:	Dieter Baldamus																	
TUV Rheinland of North America, Inc.	12 Commerce Road	Newtown, CT 06470	Tel:(203) 426-0888	Fax: (203) 426-4009													REFCC15B.xlt Revised 10/04/R03	
Conducted Emissions Calculation:	Measured Quasi Peak Value or Average Value + Correction Factor (LISN + cable) - Quasi Peak limitor Average Limit = Result (Quasi Peak Delta.)																	
	Quasi Peak Value and Average Value in the above table already includes measured Quai Peak and Average value plus correction factors.																	

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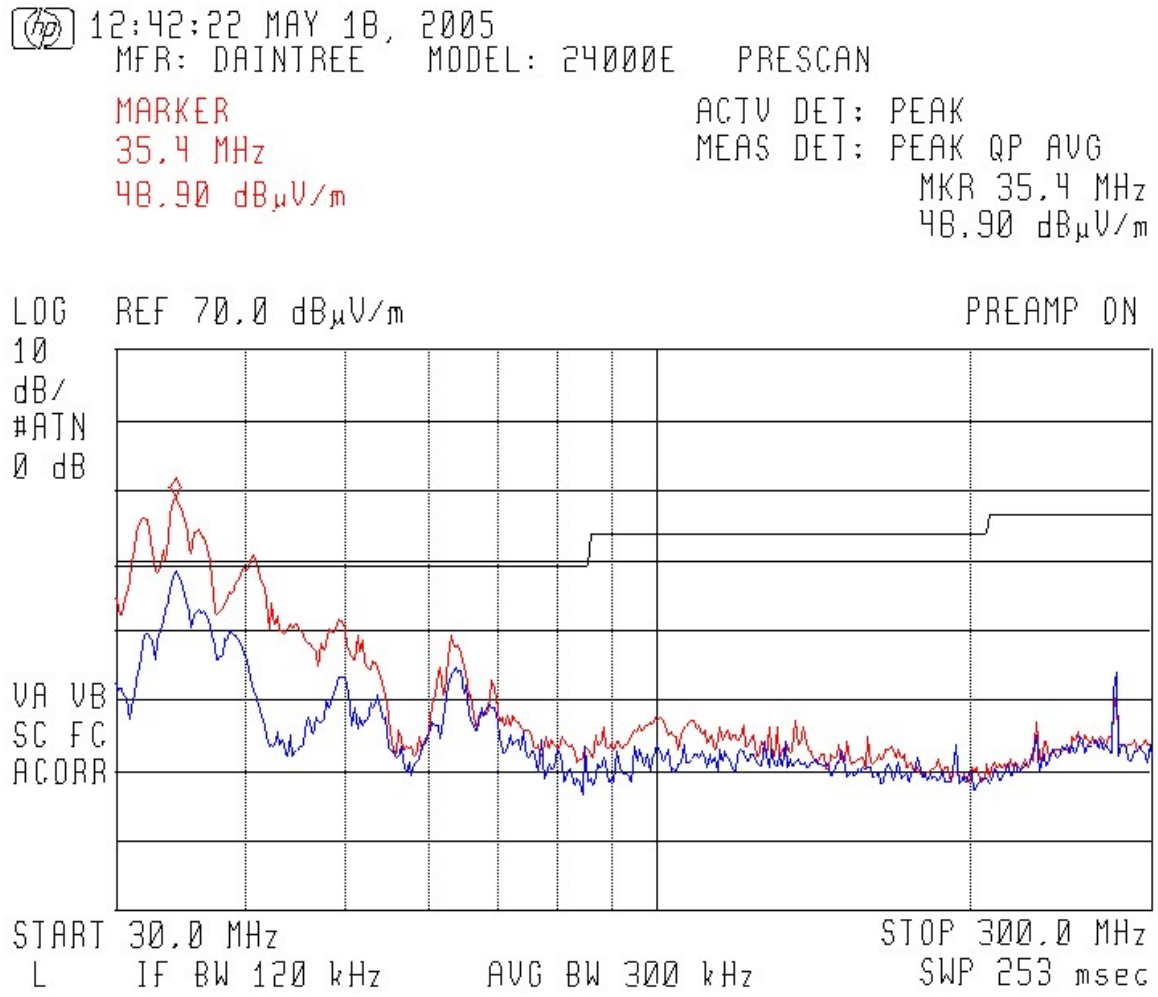
NOTES:

Radiated Spurious Emissions
FCC Part 15.209 (a)
Measurement at 3m distance



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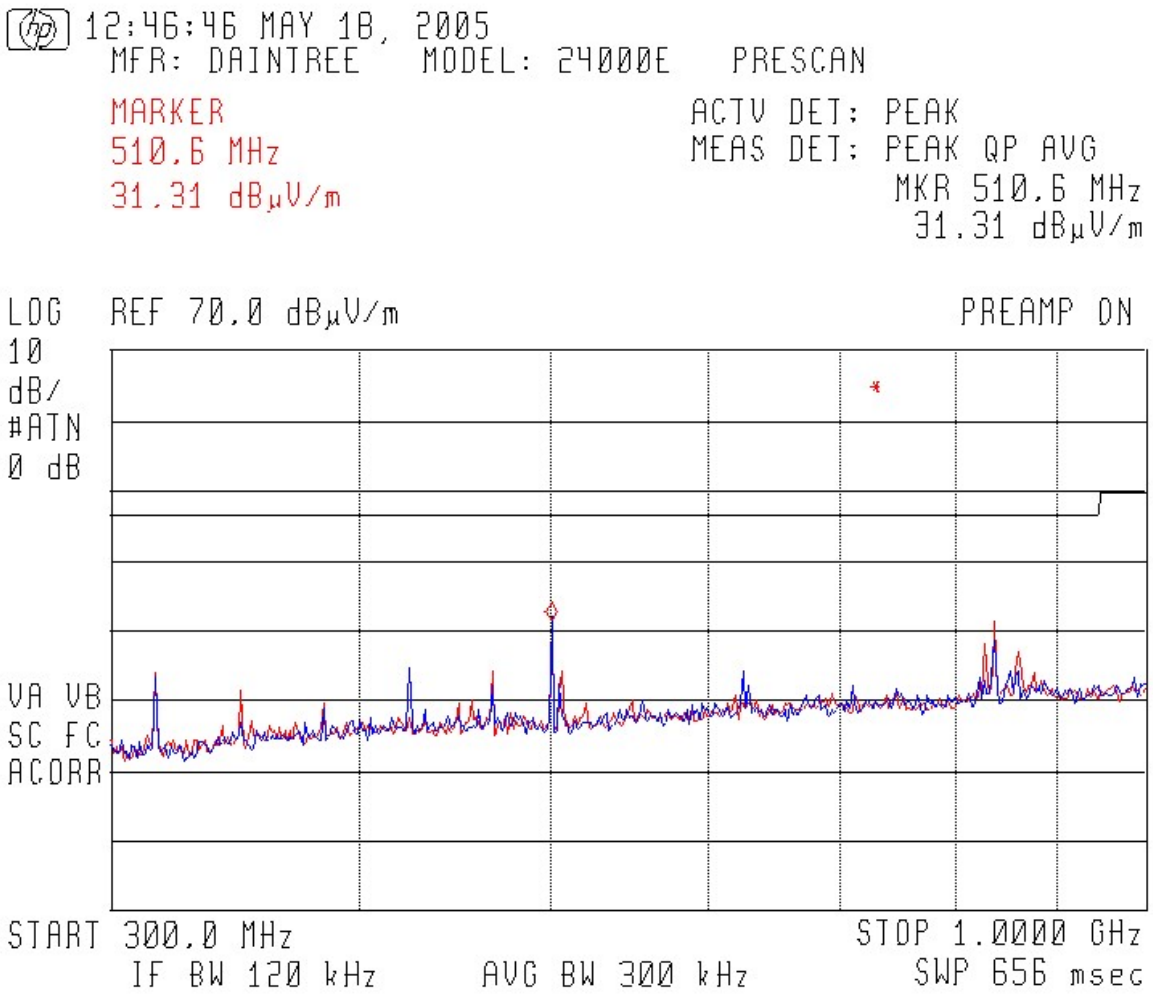
Radiated Spurious Emissions
FCC Part 15.209 (a)
Measurement at 3m distance



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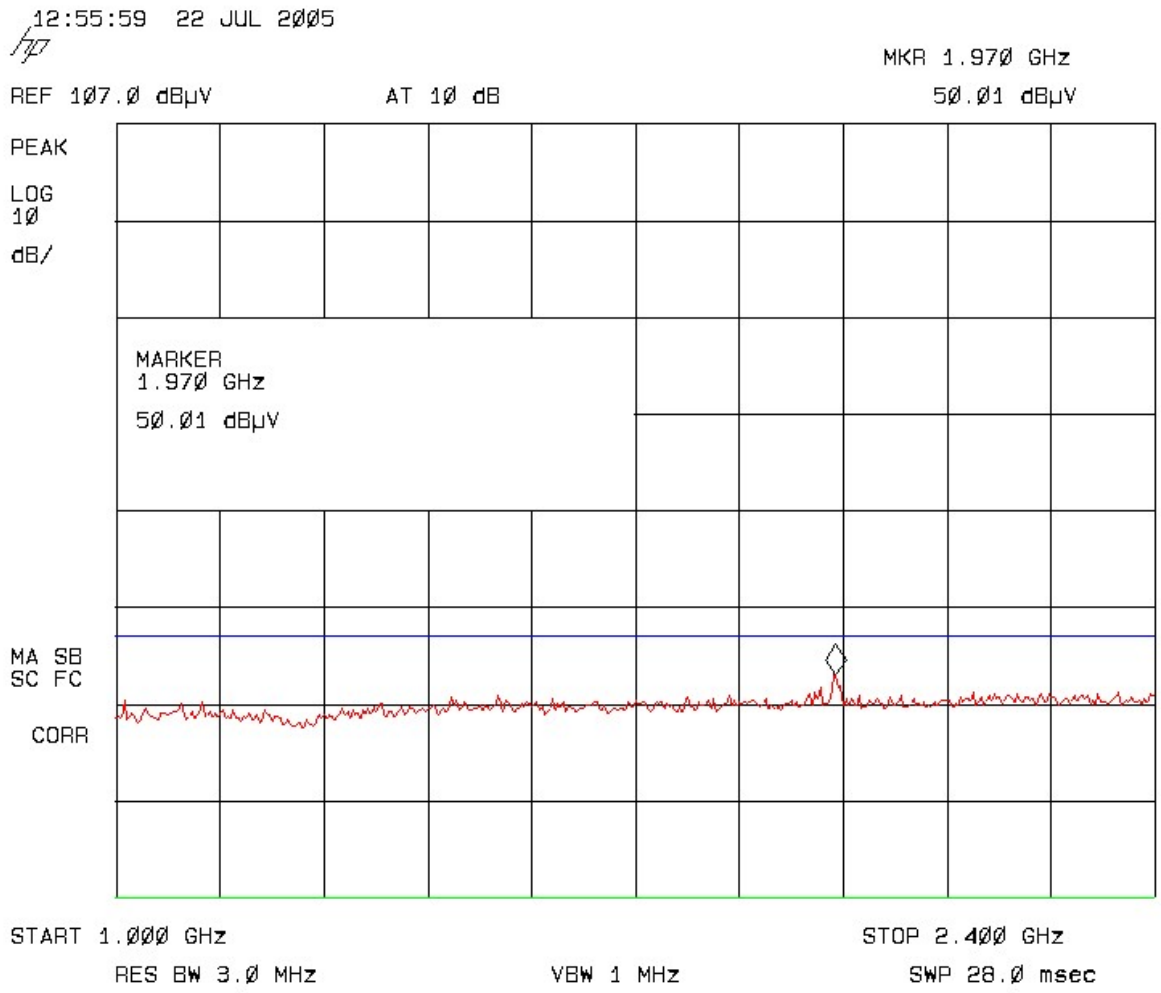

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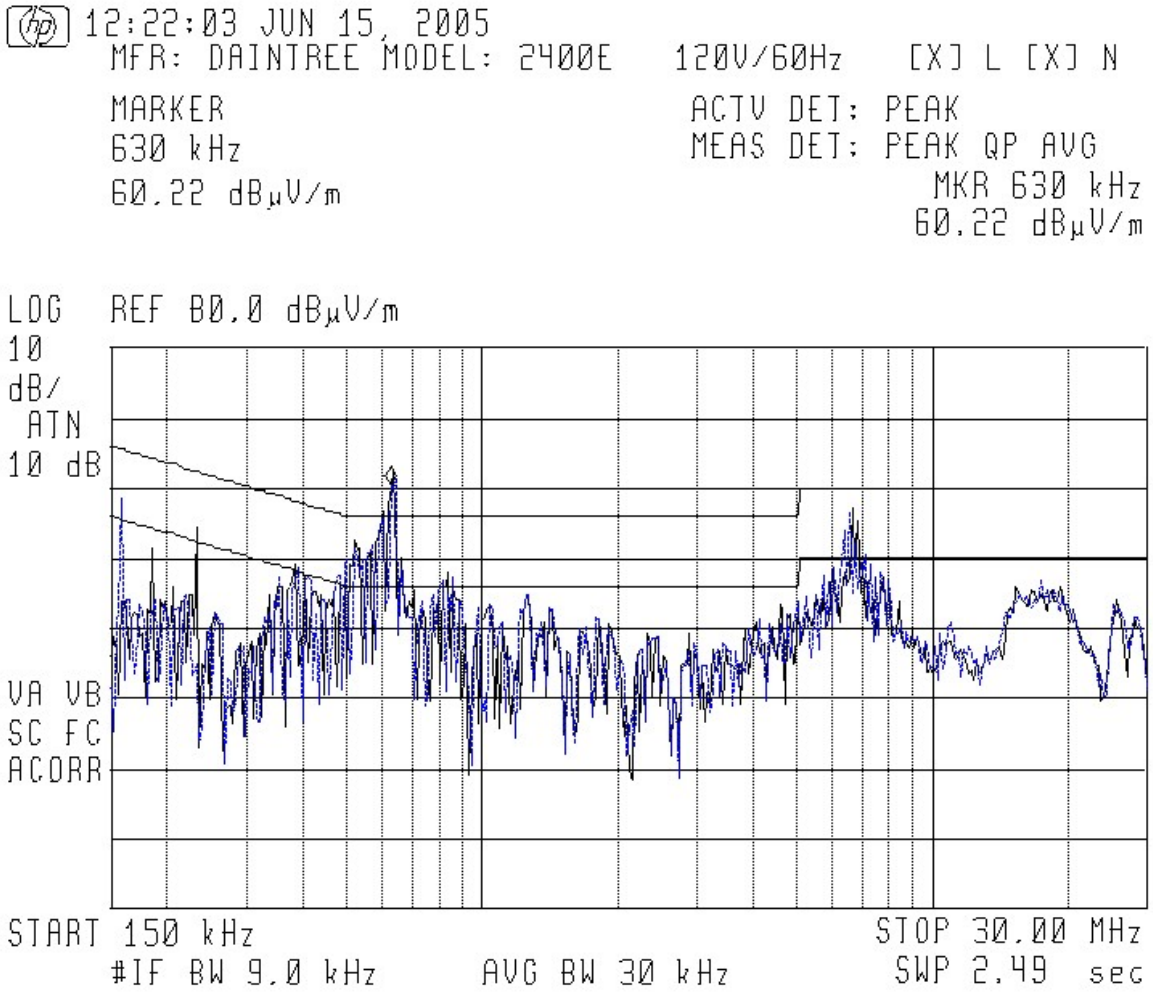
Radiated Emissions Measurements														
Standard:	ANSI C63.4:2003/ CFR 47 FCC Part 15.209 (a) Class B						*PRESCAN or FINAL:*	Final				***Date:***	5/25/2005	
Device Tested:	Daintree 2400E						***Distance:***	3.0m				***File:***	05052501.xls	
		Measured Level												
Meas #	Freq (MHz)	Peak	Quasi-Peak	Average	Quasi-Peak Limit	Quasi-Peak Δ	Antenna + Cable Correction Factor (included in measured levels)	Result	Polarization	Angle (degrees)	Antenna Height (meters)	Comment		
1	34.9229	41.02	31.45	20.75	40.00	-8.55	16.89	Complied	Horizontal	185	1.00			
2	44.0221	38.88	28.94	18.59	40.00	-11.06	12.29	Complied	Horizontal	144	1.00			
3	47.0302	45.10	32.18	13.66	40.00	-7.82	10.75	Complied	Horizontal	54	1.20			
4	78.8577	35.40	29.18	21.04	40.00	-10.82	8.15	Complied	Horizontal	68	1.50			
5	108.0567	39.22	35.38	27.15	43.50	-8.12	12.41	Complied	Horizontal	154	1.80			
6	221.2351	30.12	25.34	11.43	46.00	-20.66	10.98	Complied	Horizontal	354	1.54			
7	479.9949	28.27	24.98	21.65	46.00	-21.02	19.76	Complied	Horizontal	245	1.54			
8	35.4244	45.74	39.50	38.45	40.00	-0.50	15.95	Complied	Vertical	124	1.00			
9	37.6885	41.20	36.70	31.74	40.00	-3.30	14.85	Complied	Vertical	98	1.00			
10	41.8955	42.33	38.60	30.75	40.00	-1.40	12.70	Complied	Vertical	88	1.00			
11	51.0009	34.43	28.43	21.34	40.00	-11.57	8.24	Complied	Vertical	255	2.02			
12	66.1858	31.29	24.40	18.58	40.00	-15.60	6.32	Complied	Vertical	312	2.15			
Tested by:	Dieter Baldamus													
TUV Rheinland of North America, Inc. 12 Commerce Road Newtown, CT 06470 Tel:(203) 426-0888 Fax: (203) 426-4009												REFCC15B.xlt Revised 10MAR03		
Field Strength Calculation:	Measured Quasi Peak Value + Correction Factor (Anntenna + cable) - Quasi Peak limit = Result (Quasi Peak Delta.)													
	Quasi Peak Value in the above table already includes measured value and correction factors.													
	Negative Result is a Pass													

TUV Rheinland of North America

NOTES:

Conducted Emissions
FCC Part 15.207 (a)
120V/60Hz



ANTENNA/COUPLER:

☐ 9124 Bicon	☐ 3109 Bicon	☐ CBL6140 X-Wing	☐ NNB-4/63TL LISN
☐ 3146 Log Per	☒ 3115 Horn	☐ MDS–21 Clamp	☐ NNB-4/200X LISN
☐ 3106 Horn	☐ CBL6112B Bilog	☐ NSLK 8126 LISN	☐ Other_____

MEAS TYPE:	POLARIZATION:	DISTANCE:	LOCATION:
☐ Radiated Prescan	☒ Vertical	☒ 3 Meter	☐ OATS
☒ Radiated Final	☒ Horizontal	☐ 10 Meter	☒ Semi-Anechoic
☐ Conducted	☐ Line	☐ ____Meter	☐ Shielded Room
☐ Disturbance Power	☐ Neutral	☐ NA	☐ Factory Floor
☐ Other_____	☐ NA		☐ Other_____

TUV Rheinland of North America

Conducted Emissions Measurements

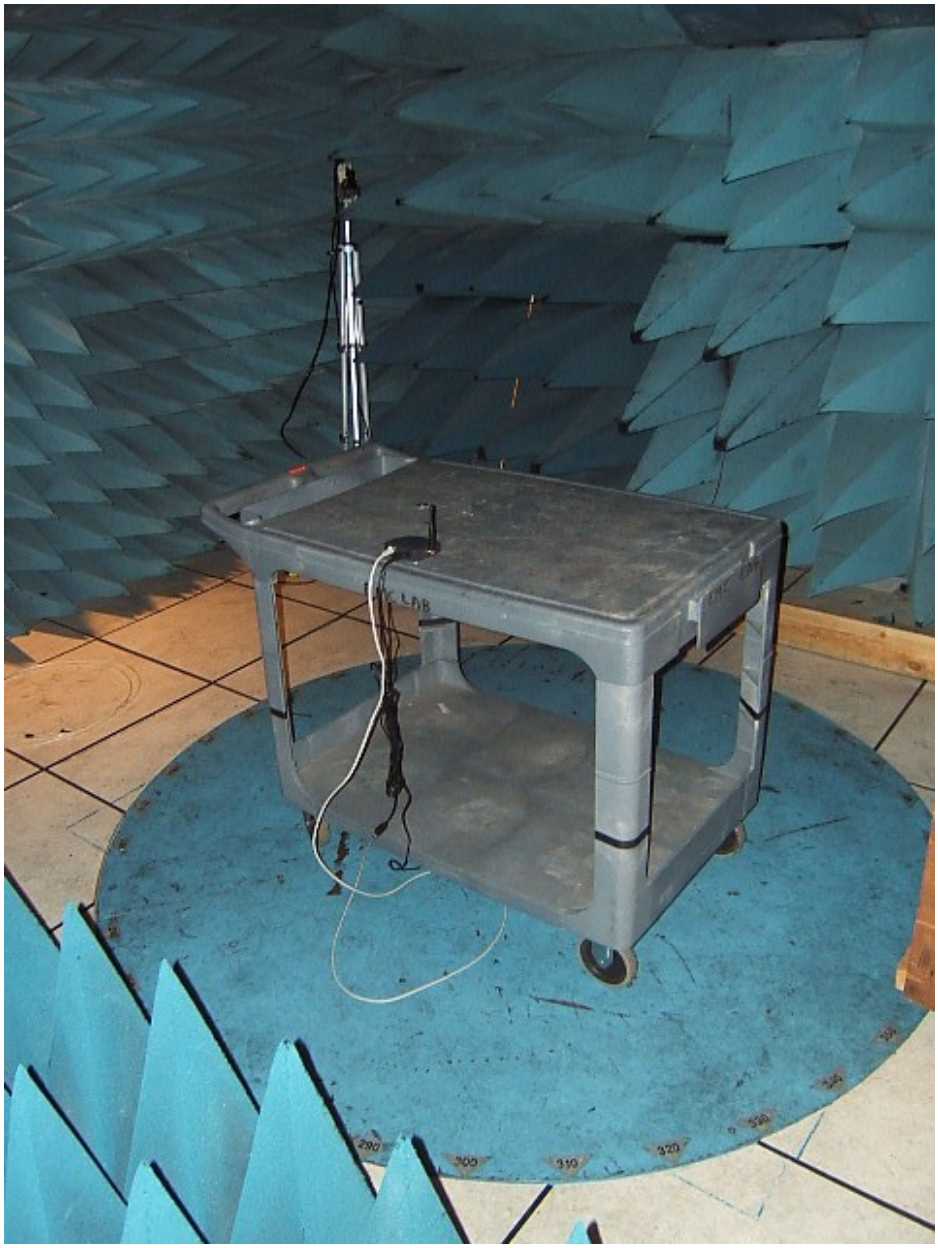
Standard:	ANSI C63.4:2003/ CFR 47 FCC Part 15.207 (a)											*Date:*	25/05/2005	
Device Tested:	Daintree - 2400E											*File: .xls*	05052502.xls	
Signal Num	Freq	Peak Amp	QP Amp	Avg Amp	QP Limit	Avg Limit	LISN and Cable Correction factor (included in measured levels)	Conductor	QP Δ	QP Result	Avg Δ	Average Result	Mode	
	MHz	dBuV	dBuV	dBuV	dBuV	dBuV	dB		dB		dB			
1	0.5535	53.13	49.92	39.74	56.00	46.00	10.30	Line	-6.08	Complied	-6.26	Complied		
2	0.6346	60.22	55.71	44.66	56.00	46.00	10.30	Line	-0.29	Complied	-1.34	Complied		
3	0.8683	48.42	45.33	33.45	56.00	46.00	10.30	Line	-10.67	Complied	-12.55	Complied		
4	6.6504	58.86	57.03	49.44	60.00	50.00	10.30	Line	-2.97	Complied	-0.56	Complied		
5	16.2796	47.40	44.57	37.33	60.00	50.00	10.30	Line	-15.43	Complied	-12.67	Complied		
6	0.6367	60.77	55.91	42.75	56.00	46.00	10.30	Neutral	-0.09	Complied	-3.25	Complied		
7	0.8478	48.77	44.43	31.30	56.00	46.00	10.30	Neutral	-11.57	Complied	-14.70	Complied		
8	3.8808	40.13	35.98	24.94	56.00	46.00	10.30	Neutral	-20.02	Complied	-21.06	Complied		
9	6.7188	50.88	45.28	36.70	60.00	50.00	10.30	Neutral	-14.72	Complied	-13.30	Complied		
10	18.9805	47.72	45.67	38.57	60.00	50.00	10.30	Neutral	-14.33	Complied	-11.43	Complied		
Tested by:	Dieter Baldamus													
TUV Rheinland of North America, Inc.		12 Commerce Road		Newtown, CT 06470		Tel:(203) 426-0888		Fax: (203) 426-4009				CE22_B.xlt Revised 19APR05		
Conducted Emissions Calculation:		Measured Quasi Peak Value or Average Value + Correction Factor (LISN + cable) - Quasi Peak limitor Average Limit = Result (Quasi Peak Delta.)												
		Quasi Peak Value and Average Value in the above table already includes measured Quai Peak and Average value plus correction factors.												
		Negative Result is a Pass												

TUV Rheinland of North America

APPENDIX B: PHOTOGRAPHS

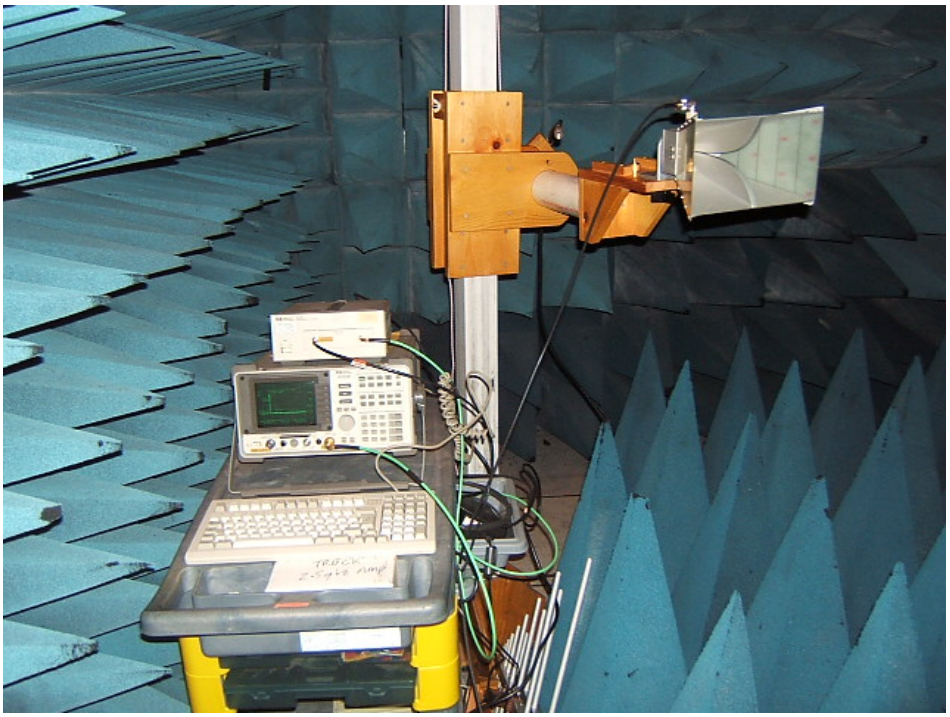
TUV Rheinland of North America

Emissions Pre-scan



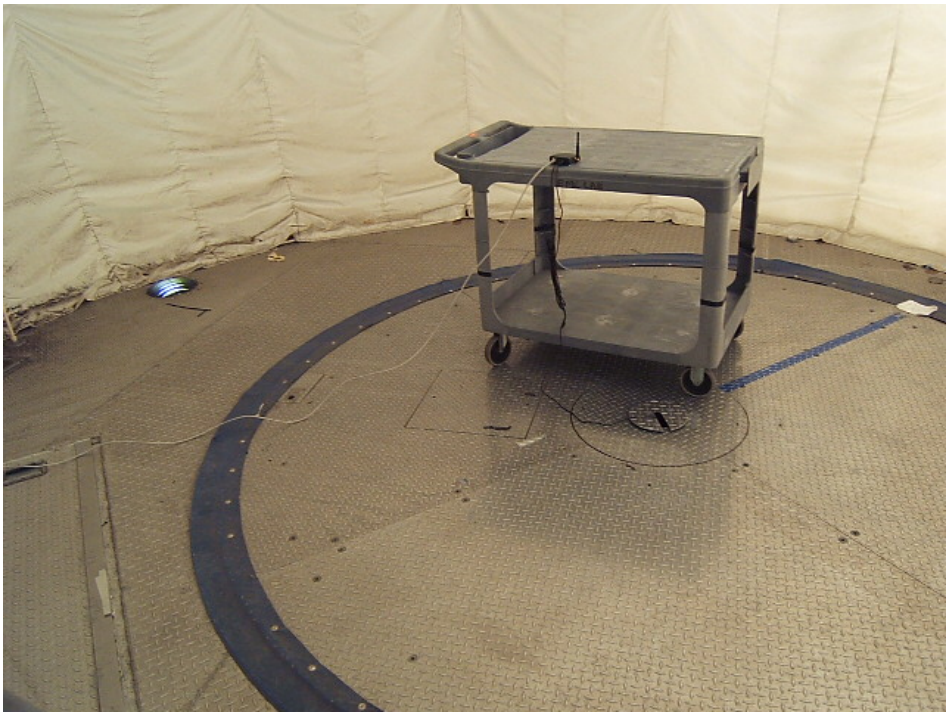
Emissions Pre-scan

Test Equipment



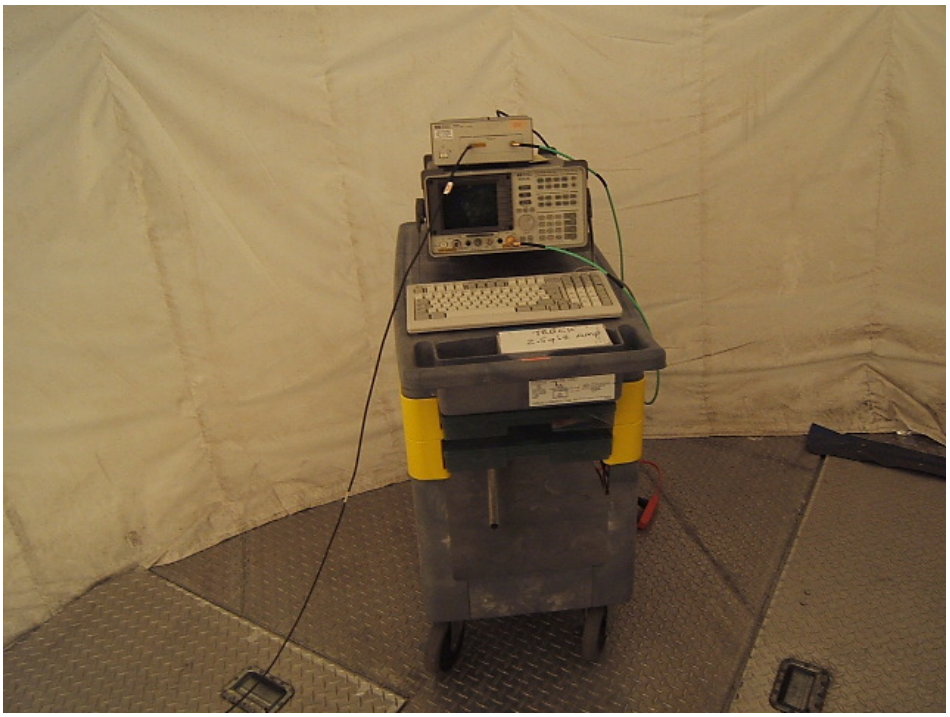
Emissions Final Scan (OATS)

EUT



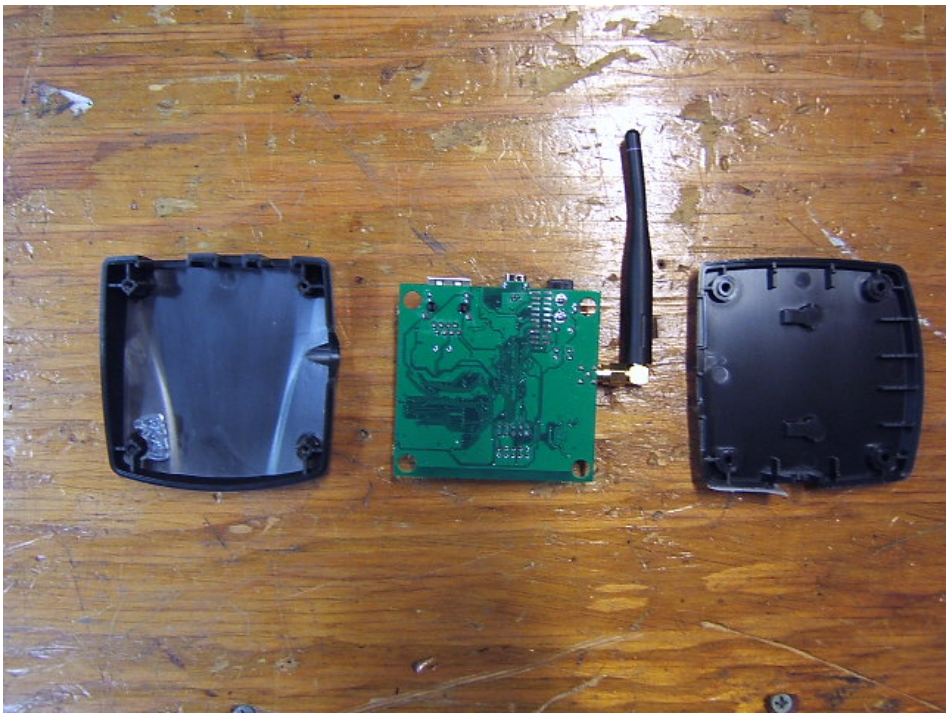
Emissions Final Scan (OATS)

Test Equipment

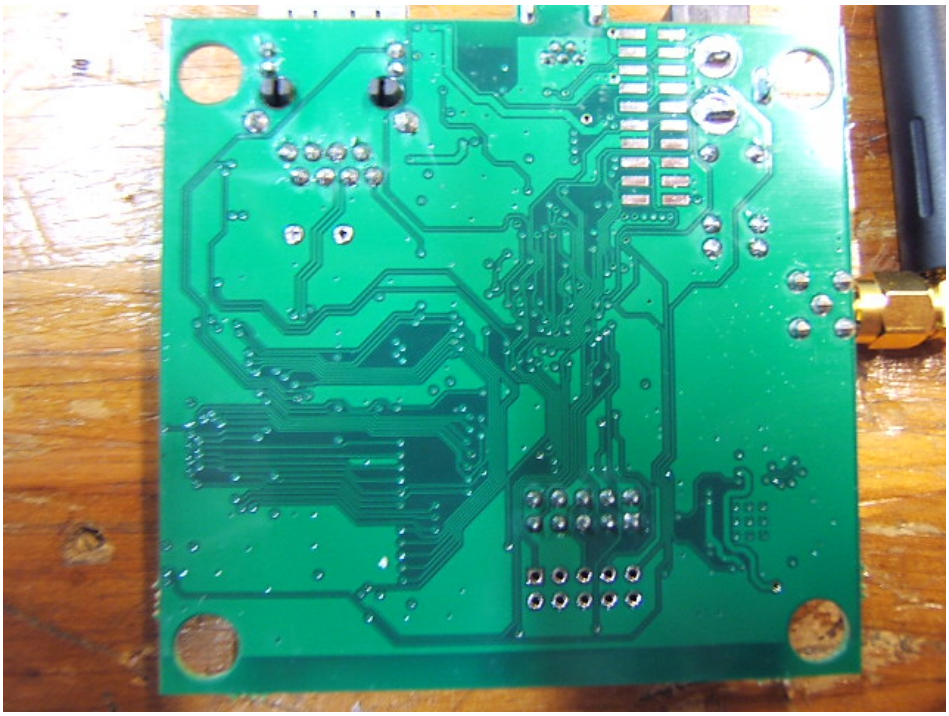


Conducted Emissions

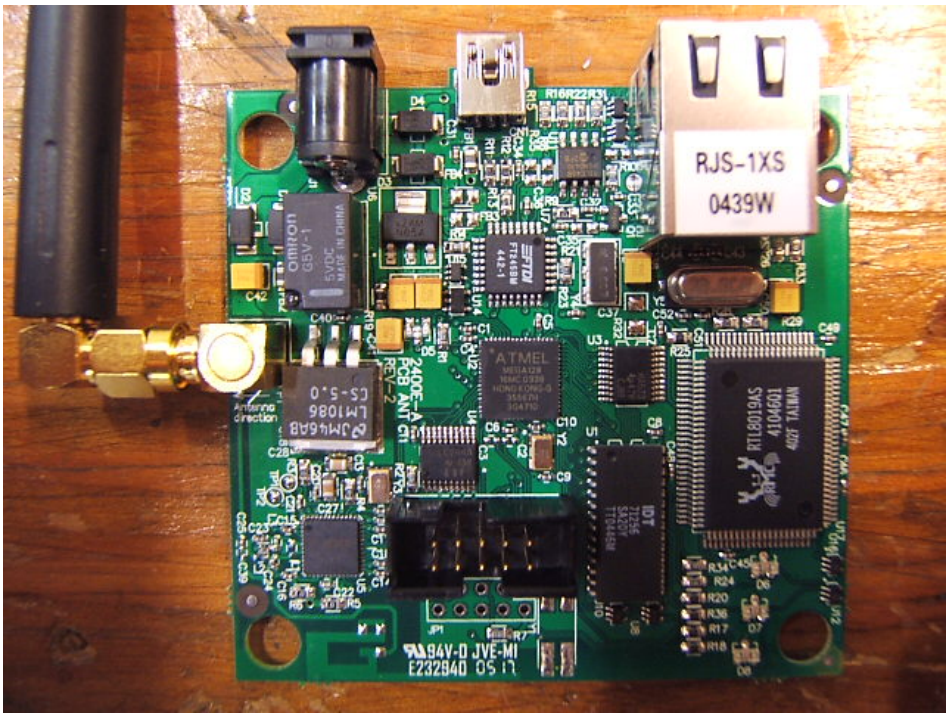
Inside view



Inside view



Inside view



Power Adapter