

**Nemko Test Report:** 153666-7TRFWL

**Applicant:** Redline Communications  
302 Town Center Blvd.  
Markham, Ontario,  
Canada, L3R 0E8

**Apparatus:** RDL-3000

**FCC ID:** QC8-RDL3000A

**In Accordance With:** FCC Part 15 Subpart E, 15.407  
Unlicensed National Information Infrastructure  
Devices

**Authorized By:**

A handwritten signature in blue ink, appearing to read 'Sim Jagpal'.

Sim Jagpal, General Manager

**Date:** February 23, 2011

**Total Number of Pages:** 46

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## Section 1 : Report Summary

These tests were conducted on a sample of the equipment for the purpose of demonstrating compliance with Part 15, Subpart E. Radiated tests were conducted in accordance with ANSI C63.4-2003.

The assessment summary is as follows:

<b>Apparatus Assessed:</b>	RDL-3000
<b>Specification:</b>	FCC Part 15 Subpart E, 15.407
<b>Compliance Status:</b>	Complies
<b>Exclusions:</b>	None
<b>Non-compliances:</b>	None
<b>Report Release History:</b>	Original Release
<b>Test Location:</b>	Nemko Canada Inc. 303 River Road Ottawa, Ontario K1V 1H2
<b>Registration Number:</b>	176392 (3 m Semi-Anechoic Chamber)
<b>Tests Performed By:</b>	Kevin Ma, Technical Assessor
<b>Test Dates:</b>	February 2011

Note that the results contained in this report relate only to the items tested and were obtained in the period between the date of initial receipt of samples and the date of issue of the report.

This test report has been completed in accordance with the requirements of ISO/IEC 17025. All results contain in this report are within Nemko Canada's ISO/IEC 17025 accreditation.

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## Section 2 : Equipment Under Test

### 2.1 Identification of Equipment Under Test (EUT)

The following information identifies the EUT under test:

Type of Equipment:	Broad-band wireless infrastructure product
Brand Name:	Redline
Model Name or Number:	RDL-3000
Serial Number:	NA
Nemko Sample Number:	2
FCC ID:	QC8-RDL3000A
Date of Receipt:	July 23, 2010

### 2.2 Accessories

The following information identifies accessories used to exercise the EUT during testing:

Description:	POE Power Adapter
Brand Name:	Cincon Electronics Co., Ltd.
Model Name or Number:	TR60A-POE-L
Serial Number:	002179
Nemko Sample Number:	2
Connection Port:	Shielded Ethernet
Cable Length and Type:	LAN cable

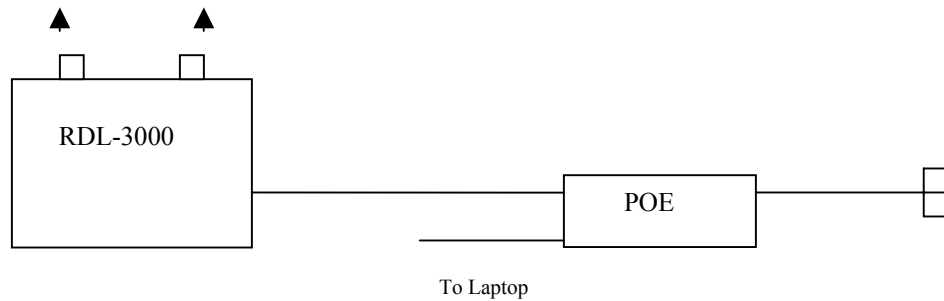
### 2.3 EUT Description

The EUT is a 2×2 MIMO point-to-point (PTP) and point-to multipoint (PMP) carrier grade broadband wireless infrastructure product, designed to operate in the 5.25–5.35 GHz bands.

## 2.4 Technical Specifications of the EUT

<b>Operating Band:</b>	5250–5350 MHz
<b>Operating Frequency:</b>	5 MHz Channel: 5252.5–5345 MHz 10 MHz Channel: 5255–5342.5 MHz 20 MHz Channel: 5260–5337.5 MHz
<b>Modulation:</b>	OFDM using 64-QAM, 16-QAM, QPSK and BPSK modulation for sub-carriers
<b>Channel Bandwidth:</b>	5, 10 and 20 MHz
<b>Emission Designator:</b>	W7D
<b>Antenna Data:</b>	A2308MFD, 14-inch, 8 degree, 23 dBi flat panel antenna, 4.9–5.8 GHz, dual-polarization A2FT2906LTPD, 2 foot, 6 degree, 29 dBi parabolic antenna, 4.9–5.8 GHz, dual-polarization A3FT3204LTPD, 3 foot, 4 degree, 32 dBi parabolic antenna, 4.9–5.8 GHz, dual-polarization A9014MTD, 90 degree, 14 dBi sector flat panel, 4.9–5.95 GHz, dual polarization A6015MTD, 60 degree, 15.5 dBi sector flat panel, 4.9–5.95 GHz, dual polarization
<b>Power Supply Requirements:</b>	–48VDC PoE

## 2.5 EUT Setup diagram



## 2.6 Operation of the EUT during testing

The EUT was in a continuous transmitting mode with random data frames. The modulation, channel bandwidth and channel frequency was changed using a Web-base interface of the Ethernet port.

## 2.7 Modifications incorporated in the EUT

There were no modifications performed to the EUT during this assessment.

## **Section 3 : Test Conditions**

### **3.1 Specifications**

The apparatus was assessed against the following specifications:

FCC Part 15 Subpart E, 15.407  
Unlicensed National Information Infrastructure Devices

### **3.2 Deviations From Laboratory Test Procedures**

No deviations were made from laboratory test procedures.

### **3.3 Test Environment**

All tests were performed under the following environmental conditions:

Temperature range	:	15–30 °C
Humidity range	:	20–75 %
Pressure range	:	86–106 kPa
Power supply range	:	±5 % of rated voltages

### **3.4 Measurement Uncertainty**

Nemko Canada measurement uncertainty has been calculated using guidance of UKAS LAB 34:2003 and TIA-603-B Nov 7, 2002. All calculations have been performed to provide a confidence level of 95 % and can be found in Nemko Canada document MU-003.

### 3.5 Test Equipment

Equipment	Manufacturer	Model No.	Asset/Serial No.	Cal. Date	Next Cal.
3 m EMI Test Chamber	TDK	SAC-3	FA002047	Mar. 09/10	Mar. 09/11
Flush Mount Turntable	Sunol	FM2022	FA002082	NCR	NCR
Controller	Sunol	SC104V	FA002060	NCR	NCR
Antenna Mast	Sunol	TLT2	FA002061	NCR	NCR
International Power Supply	California Inst.	3001i	FA001021	COU	COU
Receiver/Spectrum Analyzer	Rohde & Schwarz	ESU 26	FA002043	Jan. 14/10	Apr. 14/11
Spectrum Analyzer	Rohde & Schwarz	FSU	FA001877	Sept. 29/10	Sept. 29/11
Bilog Antenna	Sunol	JB3	FA002108	Jan. 18/10	Jan. 18/12
Horn Antenna #2	EMCO	3115	FA000825	Jan. 18/10	Jan. 18/12
1-18 GHz Amplifier	JCA	JCA118-503	FA002091	Oct 07/10	Oct 07/11
Temperature Chamber	Thermotron	SM-16C	FA001030	NCR	NCR
Multimeter	Fluke	16	FA001831	Jan. 12/10	Jan. 12/12
Air probe	Fluke	None	FA001561	NCR	NCR
Horn 18-26.5 GHz	Electro-Metrics	SH-50/60-1	FA000479	COU	COU
18-26 GHz Amplifier	NARDA	BBS-1826N612	FA001550	COU	COU
18.0 - 40.0GHz Horn Antenna	EMCO	3116	FA001847	May 13/10	May 13/11
26 - 40.0 GHz Amplifier	NARDA	DBL-2640N610	FA001556	COU	COU
Frequency Counter	HP	5352B	FA001915	Jan 08/10	Jan 24/12
Power Meter	HP	E4418B	FA001413	Jun 05/10	Jun 05/11
Power Sensor	HP	8487A	FA001908	Jun 05/10	Jun 05/11
Combiner	Mini-circuits	ZA3PD-4	FA001156	COU	COU
Notch Filter	Microwave Circuits	5470-5725MHz	FA002012	COU	COU

COU – Calibrate on Use

NCR – No Calibration Required



## Section 4 : Results Summary

This section contains the following:

### FCC Part 15 Subpart E : Test Results

The column headed 'Required' indicates whether the associated clauses were invoked for the apparatus under test. The following abbreviations are used:

N No : not applicable / not relevant.

Y Yes : Mandatory i.e. the apparatus shall conform to these tests.

N/T Not Tested, mandatory but not assessed. (See Report Summary)

### 4.1 FCC Part 15 Subpart E : Test Results

Part 15	Test Description	Required	Result
15.207(a)	Powerline Conducted Emissions	Y	PASS
15.209(a)	Radiated Emissions within Restricted Bands	Y	PASS
15.403(i)	Emission Bandwidth	Y	PASS
15.407(a)(2)	Maximum Conducted Transmit Output Power	Y	PASS
15.407(a)(2)	Peak Power Spectral Density	Y	PASS
15.407(a)(6)	Peak Excursion Measurement	Y	PASS
15.407(b)	Spurious Emissions	Y	PASS
15.407(g)	Frequency stability	Y	PASS



## Appendix A : Test Results

### Clause 15.207(a) Powerline Conducted Emissions

Frequency of Conducted limit (dB $\mu$ V)		
Emission (MHz)	Quasi-peak	Average
0.15–0.5	66 to 56*	56 to 46*
0.5–5	56	46
5–30	60	50

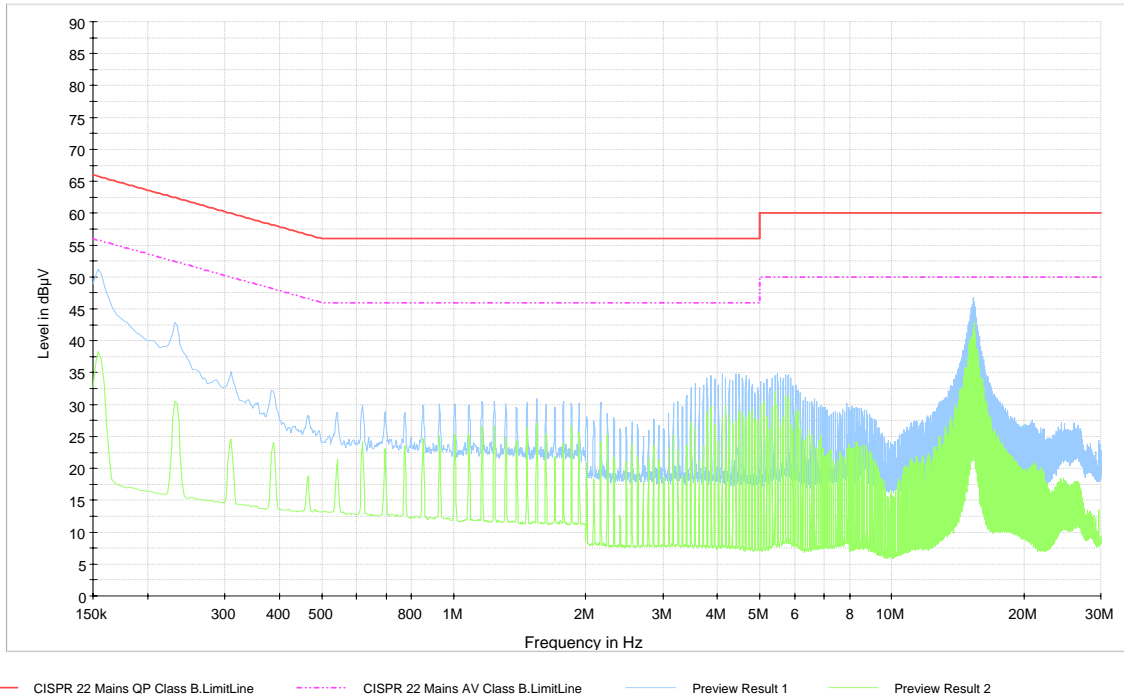
\* Decreases with the logarithm of the frequency.

**Test Results:** Pass

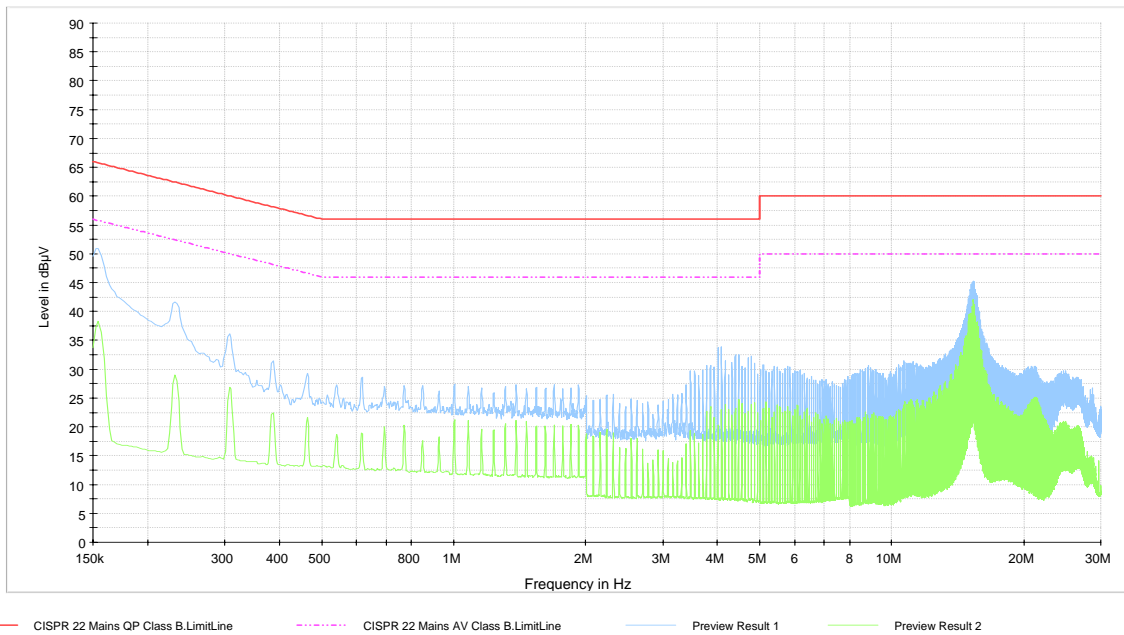
#### Additional Observations:

All plots were obtained using a sweeping receiver with an IF of 9 kHz using a Quasi-Peak and Average detector. The plots have been corrected with the cable loss and LISN loss to show compliance.

**Phase:**



**Neutral:**



**Clause 15.209(a) Radiated Emissions within Restricted Bands**

Except as provided elsewhere in this subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

Frequency (MHz)	Field Strength		Measurement Distance (meters)
	( $\mu$ V/m)	(dB $\mu$ V/m)	
0.009–0.490	2400/F	67.6–20log(F)	300
0.490–1.705	24000/F	87.6–20log(F)	30
1.705–30.0	30	29.5	30
30–88	100	40.0	3
88–216	150	43.5	3
216–960	200	46.0	3
Above 960	500	54.0	3

Note: F = fundamental frequency in kHz

**Test Results:** Pass

**Additional Observations:**

The Spectrum was searched from 30 MHz to the 40 GHz.

These results apply to emissions found in the Restricted bands defined in FCC Part 15 Subpart C, 15.205.

Peak Detector with 100 kHz/300 kHz RBW/VBW was used for measurements below 1 GHz and 1 MHz/3 MHz RBW/VBW for frequencies above 1 GHz. Since EUT has 100 % duty cycle average measurements were performed at the frequencies above 1 GHz with 1 MHz/10 Hz RBW/VBW spectrum analyzer settings.

Measurement distance is 3 m, and antennas were set to horizontal and vertical polarization to test.

For type of sector flat panel antenna, the highest gain (15.5 dBi) antenna was chosen for the test.

All modulations were investigated, only the worst case data is presented.

**5 MHz Channel**

Antenna	Channel MHz	Frequency, MHz	Pol	FS Peak, dBμV/m	FS Peak Limit, dBμV/m	Margin, dB	FS Avg, dBμV/m	FS Avg Limit, dBμV/m	Margin, dB
Sector flat panel 15.5 dBi	5252.5	5093.75	V	66.83	74.00	7.17	52.91	54.00	1.09
		5370.86	V	68.64	74.00	5.36	53.55	54.00	0.45
	5300	5139.58	V	66.80	74.00	7.20	52.96	54.00	1.04
		5459.82	V	68.29	74.00	5.71	53.79	54.00	0.21
	5345	5103.12	V	67.66	74.00	6.34	52.86	54.00	1.14
		5350.00	V	69.73	74.00	4.27	53.94	54.00	0.06
Flat panel 23 dBi	5252.5	5150.00	V	68.45	74.00	5.55	53.11	54.00	0.89
		5372.74	V	68.23	74.00	5.77	53.14	54.00	0.86
	5300	5139.98	V	67.89	74.00	6.11	53.05	54.00	0.95
		5459.82	V	69.75	74.00	4.25	53.94	54.00	0.06
	5345	5099.52	V	68.18	74.00	5.82	52.82	54.00	1.18
		5350.00	V	69.23	74.00	4.77	53.92	54.00	0.08
Parabolic 29 dBi	5252.5	5123.16	V	67.41	74.00	6.59	52.84	54.00	1.16
		5460.00	V	69.02	74.00	4.98	53.44	54.00	0.56
	5300	5111.94	V	68.52	74.00	5.48	52.85	54.00	1.15
		5459.64	V	68.71	74.00	5.29	53.56	54.00	0.44
	5345	5122.75	V	67.55	74.00	6.45	52.78	54.00	1.22
		5350.00	V	67.99	74.00	6.01	53.52	54.00	0.48
Parabolic 32 dBi	5252.5	5099.52	V	67.83	74.00	6.17	52.86	54.00	1.14
		5458.94	V	68.77	74.00	5.23	53.34	54.00	0.66
	5300	5102.32	V	68.03	74.00	5.97	52.84	54.00	1.16
		5458.76	V	68.51	74.00	5.49	53.33	54.00	0.67
	5345	5102.72	V	67.88	74.00	6.12	52.84	54.00	1.16
		5350.00	V	69.22	74.00	4.78	53.71	54.00	0.29

**10 MHz Channel**

Antenna	Channel MHz	Frequency, MHz	Pol	FS Peak, dBμV/m	FS Peak Limit, dBμV/m	Margin, dB	FS Avg, dBμV/m	FS Avg Limit, dBμV/m	Margin, dB
Sector flat panel 15.5 dBi	5255	5095.83	V	66.81	74.00	7.19	53.02	54.00	0.98
		5376.09	V	67.49	74.00	6.51	53.87	54.00	0.13
	5300	5141.66	V	66.49	74.00	7.51	52.99	54.00	1.01
		5459.29	V	67.43	74.00	6.57	53.70	54.00	0.30
	5342.5	5134.37	V	66.58	74.00	7.42	52.89	54.00	1.11
		5350.00	V	69.93	74.00	4.07	53.90	54.00	0.10
Flat panel 23 dBi	5255	5146.39	V	67.66	74.00	6.34	53.24	54.00	0.76
		5376.97	V	67.98	74.00	6.02	53.48	54.00	0.52
	5300	5140.78	V	68.51	74.00	5.49	53.31	54.00	0.69
		5443.95	V	68.86	74.00	5.14	53.74	54.00	0.26
	5342.5	5104.32	V	68.06	74.00	5.94	52.92	54.00	1.08
		5350.00	V	69.83	74.00	4.17	53.91	54.00	0.09
Parabolic 29 dBi	5255	5109.53	V	67.46	74.00	6.54	52.76	54.00	1.24
		5456.12	V	68.11	74.00	5.89	53.19	54.00	0.81
	5300	5127.16	V	67.88	74.00	6.12	52.74	54.00	1.26
		5457.71	V	69.01	74.00	4.99	53.30	54.00	0.70
	5342.5	5109.93	V	68.19	74.00	5.81	52.85	54.00	1.15
		5350.00	V	69.99	74.00	4.01	53.89	54.00	0.11
Parabolic 32 dBi	5255	5104.72	V	67.73	74.00	6.27	52.84	54.00	1.16
		5459.11	V	68.52	74.00	5.48	53.32	54.00	0.68
	5300	5121.55	V	67.99	74.00	6.01	52.83	54.00	1.17
		5459.47	V	68.76	74.00	5.24	53.32	54.00	0.68
	5342.5	5098.71	V	68.01	74.00	5.99	52.84	54.00	1.16
		5350.00	V	68.39	74.00	5.61	53.34	54.00	0.66

**20 MHz Channel**

Antenna	Channel MHz	Frequency, MHz	Pol	FS Peak, dB $\mu$ V/m	FS Peak Limit, dB $\mu$ V/m	Margin, dB	FS Avg, dB $\mu$ V/m	FS Avg Limit, dB $\mu$ V/m	Margin, dB
Sector flat panel 15.5 dBi	5260	5140.62	V	66.66	74.00	7.34	52.96	54.00	1.04
		5459.11	V	67.45	74.00	6.55	53.59	54.00	0.41
	5300	5141.66	V	67.08	74.00	6.92	53.07	54.00	0.93
		5459.11	V	67.99	74.00	6.01	53.82	54.00	0.18
	5337.5	5139.58	V	66.39	74.00	7.61	52.88	54.00	1.12
		5351.23	V	69.15	74.00	4.85	53.90	54.00	0.10
Flat panel 23 dBi	5260	5147.91	V	69.13	74.00	4.87	53.78	54.00	0.22
		5377.85	V	68.26	74.00	5.74	53.47	54.00	0.53
	5300	5147.19	V	67.98	74.00	6.02	53.26	54.00	0.74
		5375.91	V	68.31	74.00	5.69	53.61	54.00	0.39
	5337.5	5103.12	V	67.09	74.00	6.91	52.89	54.00	1.11
		5351.76	V	68.51	74.00	5.49	53.68	54.00	0.32
Parabolic 29 dBi	5260	5113.14	V	67.59	74.00	6.41	52.72	54.00	1.28
		5459.47	V	68.33	74.00	5.67	53.17	54.00	0.83
	5300	5112.74	V	68.21	74.00	5.79	52.73	54.00	1.27
		5457.88	V	68.56	74.00	5.44	53.15	54.00	0.85
	5337.5	5109.93	V	68.29	74.00	5.71	52.84	54.00	1.16
		5351.05	V	69.51	74.00	4.49	53.68	54.00	0.32
Parabolic 32 dBi	5260	5108.33	V	67.62	74.00	6.38	52.84	54.00	1.16
		5459.64	V	68.56	74.00	5.44	53.33	54.00	0.67
	5300	5105.93	V	67.98	74.00	6.02	52.84	54.00	1.16
		5460.00	V	68.98	74.00	5.02	53.33	54.00	0.67
	5337.5	5096.31	V	68.88	74.00	5.12	52.84	54.00	1.16
		5459.29	V	69.08	74.00	4.92	53.32	54.00	0.68

**Clause 15.403(i) Emission Bandwidth**

The emission bandwidth shall be determined by measuring the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, that are 26 dB down relative to the maximum level of the modulated carrier. Determination of the emissions bandwidth is based on the use of measurement instrumentation employing a peak detector function with an instrument resolution bandwidth approximately equal to 1.0 percent of the emission bandwidth of the device under measurement

**Test Results:** Pass

**Additional Observations:**

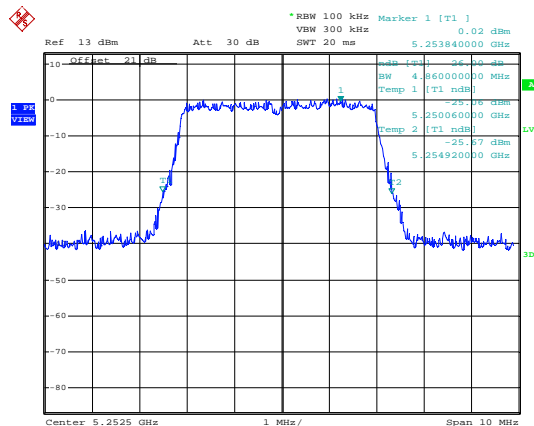
All modulations were investigated, only the worst-case test results are reported.

**26 dB Bandwidth:**

Frequency MHz	Channel Bandwidth MHz	26 dB Bandwidth MHz
5252.5	5	4.860
5300	5	4.780
5345	5	4.800
5255	10	9.280
5300	10	9.320
5342.5	10	9.360
5260	20	19.280
5300	20	19.280
5337.5	20	19.280

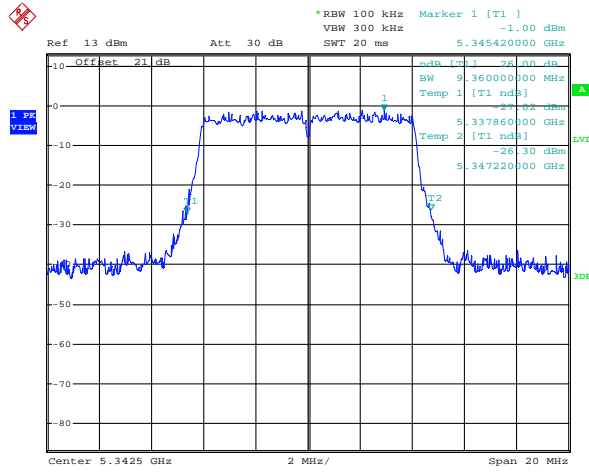
26 dB BW spectral plot sample:

**5 MHz Channel:**



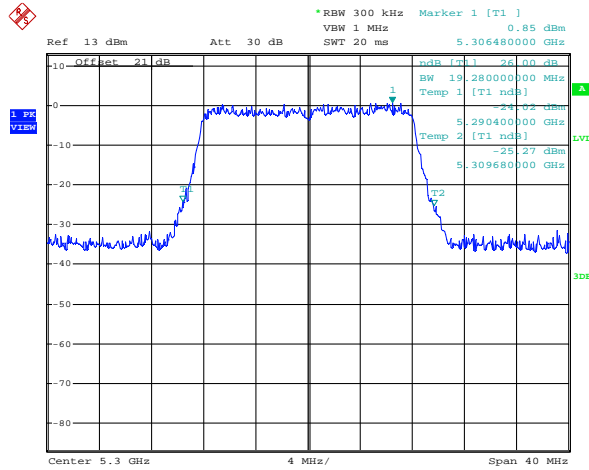
Date: 8.DEC.2010 14:29:45

**10 MHz Channel:**



Date: 8.DEC.2010 15:27:58

**20 MHz Channel:**



Date: 8.DEC.2010 15:37:02



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**Clause 15.407(a)(2) Maximum conducted output power and PPSD limits**

For the 5.25–5.35 GHz and 5.47–5.725 GHz bands, the maximum conducted output power over the frequency bands of operation shall not exceed the lesser of 250 mW (24 dBm) or  $11\text{dBm} + 10 \log B$ , where B is the 26 dB emission bandwidth in megahertz. In addition, the peak power spectral density shall not exceed 11 dBm in any 1 megahertz band. If transmitting antennas of directional gain greater than 6 dBi are used, both the maximum conducted output power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

**Test Results:** Pass

**Additional Observations:**

Transmit output power was measured while supply voltage was varied from 102 VAC to 138 VAC (85 % to 115 % of the nominal rated supply voltage) via POE adapter. No change in transmit output power was observed.

The output RF power was measured on the antenna port 1 and 2 by means of a spectrum analyzer and following the *Method 1* procedure from the FCC Public Notice Ref: DA: 02-2138, Measurement Procedure for Peak Transmit Power in UNII Band.

The power at each antenna port was measured individually and the aggregate power was summed up mathematically.

**Maximum Conducted Output Power Measurement:**

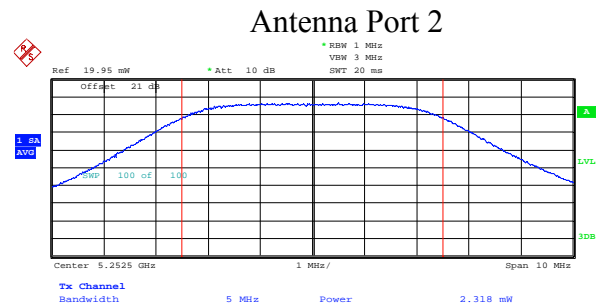
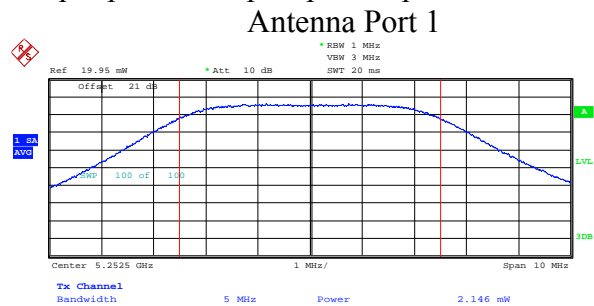
**5 MHz Channel**

Low Channel: Central nominal frequency: 5252.5 MHz

Modulation	Conducted Output Power		Combined power (dBm)	Power Limit (dBm)	Margin (dB)	Antenna Gain, (dBi)	e.i.r.p, (dBm)	e.i.r.p Limit, (dBm)	Margin, (dB)
	Ant 1, (mW)	Ant 2, (mW)							
BPSK	2.152	2.281	6.47	9.80	3.33	14.00	20.47	23.80	3.33
QPSK	2.146	2.318	6.50	9.80	3.30	14.00	20.50	23.80	3.30
16QAM	2.136	2.289	6.46	9.80	3.34	14.00	20.46	23.80	3.34
64QAM	2.123	2.267	6.42	9.80	3.38	14.00	20.42	23.80	3.38
BPSK	2.152	2.281	6.47	8.30	1.83	15.50	21.97	23.80	1.83
QPSK	2.146	2.318	6.50	8.30	1.80	15.50	22.00	23.80	1.80
16QAM	2.136	2.289	6.46	8.30	1.84	15.50	21.96	23.80	1.84
64QAM	2.123	2.267	6.42	8.30	1.88	15.50	21.92	23.80	1.88
BPSK	0.343	0.351	-1.59	0.80	2.39	23.00	21.41	23.80	2.39
QPSK	0.341	0.349	-1.61	0.80	2.41	23.00	21.39	23.80	2.41
16QAM	0.344	0.349	-1.59	0.80	2.39	23.00	21.41	23.80	2.39
64QAM	0.342	0.354	-1.57	0.80	2.37	23.00	21.43	23.80	2.37
BPSK	0.025	0.032	-12.44	-5.20	7.24	29.00	16.56	23.80	7.24
QPSK	0.025	0.032	-12.44	-5.20	7.24	29.00	16.56	23.80	7.24
16QAM	0.025	0.032	-12.44	-5.20	7.24	29.00	16.56	23.80	7.24
64QAM	0.025	0.031	-12.52	-5.20	7.32	29.00	16.48	23.80	7.32
BPSK	0.025	0.032	-12.44	-8.20	4.24	32.00	19.56	23.80	4.24
QPSK	0.025	0.032	-12.44	-8.20	4.24	32.00	19.56	23.80	4.24
16QAM	0.025	0.032	-12.44	-8.20	4.24	32.00	19.56	23.80	4.24
64QAM	0.025	0.031	-12.52	-8.20	4.32	32.00	19.48	23.80	4.32

EIRP limit = 11 dBm + 10 log 4.86 + 6dB = 23.8 dBm

Output power sample spectral plots:



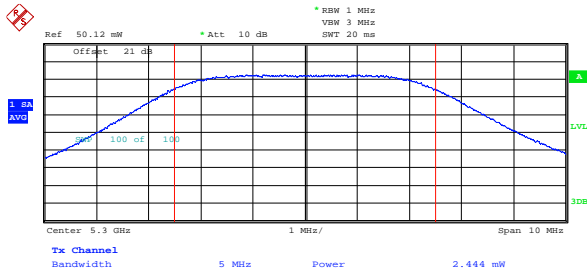
Mid Channel: Central nominal frequency: 5300 MHz

Modulation	Conducted Output Power		Combined power (dBm)	Power Limit (dBm)	Margin (dB)	Antenna Gain, (dBi)	e.i.r.p., (dBm)	e.i.r.p Limit, (dBm)	Margin, (dB)
	Ant 1, (mW)	Ant 2, (mW)							
BPSK	2.451	2.458	6.91	9.80	2.89	14.00	20.91	23.80	2.89
QPSK	2.450	2.468	6.92	9.80	2.88	14.00	20.92	23.80	2.88
16QAM	2.438	2.456	6.90	9.80	2.90	14.00	20.90	23.80	2.90
64QAM	2.444	2.471	6.92	9.80	2.88	14.00	20.92	23.80	2.88
BPSK	2.451	2.458	6.91	8.30	1.39	15.50	22.41	23.80	1.39
QPSK	2.450	2.468	6.92	8.30	1.38	15.50	22.42	23.80	1.38
16QAM	2.438	2.456	6.90	8.30	1.40	15.50	22.40	23.80	1.40
64QAM	2.444	2.471	6.92	8.30	1.38	15.50	22.42	23.80	1.38
BPSK	0.335	0.341	-1.70	0.80	2.50	23.00	21.30	23.80	2.50
QPSK	0.337	0.342	-1.68	0.80	2.48	23.00	21.32	23.80	2.48
16QAM	0.338	0.339	-1.69	0.80	2.49	23.00	21.31	23.80	2.49
64QAM	0.335	0.342	-1.69	0.80	2.49	23.00	21.31	23.80	2.49
BPSK	0.031	0.040	-11.49	-5.20	6.29	29.00	17.51	23.80	6.29
QPSK	0.031	0.040	-11.49	-5.20	6.29	29.00	17.51	23.80	6.29
16QAM	0.031	0.040	-11.49	-5.20	6.29	29.00	17.51	23.80	6.29
64QAM	0.032	0.040	-11.43	-5.20	6.23	29.00	17.57	23.80	6.23
BPSK	0.031	0.040	-11.49	-8.20	3.29	32.00	20.51	23.80	3.29
QPSK	0.031	0.040	-11.49	-8.20	3.29	32.00	20.51	23.80	3.29
16QAM	0.031	0.040	-11.49	-8.20	3.29	32.00	20.51	23.80	3.29
64QAM	0.032	0.040	-11.43	-8.20	3.23	32.00	20.57	23.80	3.23

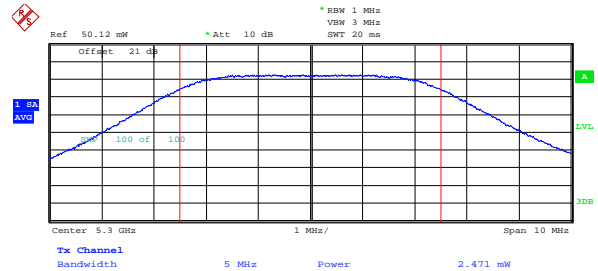
EIRP limit = 11dBm + 10 log 4.86 + 6dB = 23.8 dBm

Output power sample spectral plots:

Antenna Port 1



Antenna Port 2



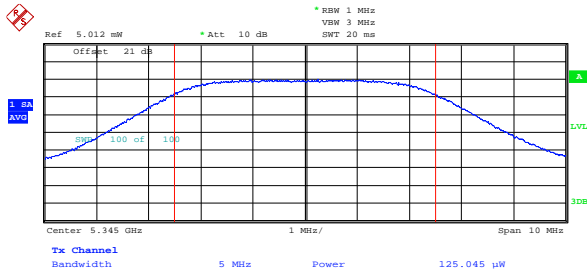
High Channel: Central nominal frequency: 5345 MHz

Modulation	Conducted Output Power		Combined power (dBm)	Power Limit (dBm)	Margin (dB)	Antenna Gain, (dBi)	e.i.r.p., (dBm)	e.i.r.p Limit, (dBm)	Margin, (dB)
	Ant 1, (mW)	Ant 2, (mW)							
BPSK	0.124	0.149	-5.64	9.80	15.44	14.00	8.36	23.80	15.44
QPSK	0.124	0.148	-5.65	9.80	15.45	14.00	8.35	23.80	15.45
16QAM	0.125	0.149	-5.62	9.80	15.42	14.00	8.38	23.80	15.42
64QAM	0.124	0.148	-5.65	9.80	15.45	14.00	8.35	23.80	15.45
BPSK	0.124	0.149	-5.64	8.30	13.94	15.50	9.86	23.80	13.94
QPSK	0.124	0.148	-5.65	8.30	13.95	15.50	9.85	23.80	13.95
16QAM	0.125	0.149	-5.62	8.30	13.92	15.50	9.88	23.80	13.92
64QAM	0.124	0.148	-5.65	8.30	13.95	15.50	9.85	23.80	13.95
BPSK	0.040	0.045	-10.71	0.80	11.51	23.00	12.29	23.80	11.51
QPSK	0.039	0.045	-10.76	0.80	11.56	23.00	12.24	23.80	11.56
16QAM	0.039	0.045	-10.76	0.80	11.56	23.00	12.24	23.80	11.56
64QAM	0.039	0.045	-10.76	0.80	11.56	23.00	12.24	23.80	11.56
BPSK	0.011	0.013	-16.20	-5.20	11.00	29.00	12.80	23.80	11.00
QPSK	0.011	0.014	-16.02	-5.20	10.82	29.00	12.98	23.80	10.82
16QAM	0.011	0.013	-16.20	-5.20	11.00	29.00	12.80	23.80	11.00
64QAM	0.011	0.013	-16.20	-5.20	11.00	29.00	12.80	23.80	11.00
BPSK	0.011	0.013	-16.20	-8.20	8.00	32.00	15.80	23.80	8.00
QPSK	0.011	0.014	-16.02	-8.20	7.82	32.00	15.98	23.80	7.82
16QAM	0.011	0.013	-16.20	-8.20	8.00	32.00	15.80	23.80	8.00
64QAM	0.011	0.013	-16.20	-8.20	8.00	32.00	15.80	23.80	8.00

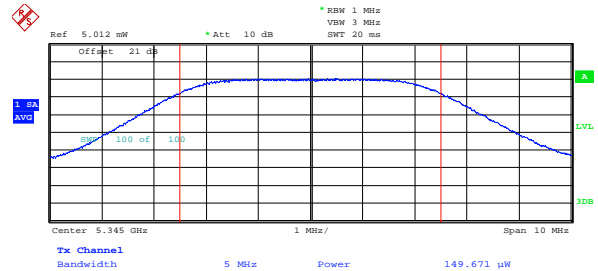
EIRP limit = 11dBm + 10 log 4.86 + 6dB = 23.8 dBm

Output power sample spectral plots:

Antenna Port 1



Antenna Port 2



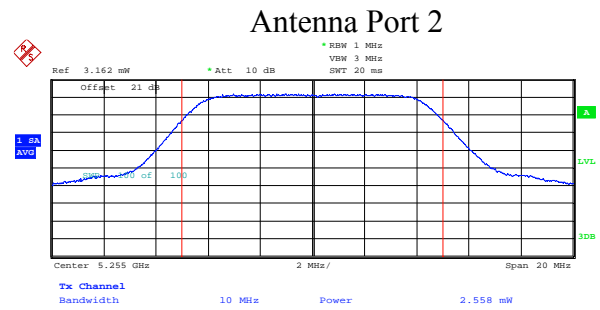
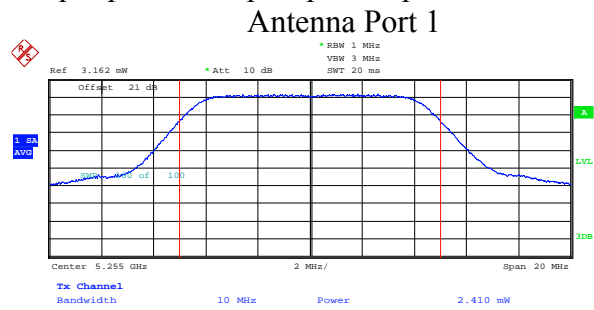
### 10 MHz Channel

Low Channel: Central nominal frequency: 5255 MHz

Modulation	Conducted Output Power		Combined power (dBm)	Power Limit (dBm)	Margin (dB)	Antenna Gain, (dBi)	e.i.r.p, (dBm)	e.i.r.p Limit, (dBm)	Margin, (dB)
	Ant 1, (mW)	Ant 2, (mW)							
BPSK	2.390	2.552	6.94	12.70	5.76	14.00	20.94	26.70	5.76
QPSK	2.423	2.540	6.96	12.70	5.74	14.00	20.96	26.70	5.74
16QAM	2.391	2.531	6.92	12.70	5.78	14.00	20.92	26.70	5.78
64QAM	2.410	2.558	6.96	12.70	5.74	14.00	20.96	26.70	5.74
BPSK	2.390	2.552	6.94	11.20	4.26	15.50	22.44	26.70	4.26
QPSK	2.423	2.540	6.96	11.20	4.24	15.50	22.46	26.70	4.24
16QAM	2.391	2.531	6.92	11.20	4.28	15.50	22.42	26.70	4.28
64QAM	2.410	2.558	6.96	11.20	4.24	15.50	22.46	26.70	4.24
BPSK	0.351	0.377	-1.38	3.70	5.08	23.00	21.62	26.70	5.08
QPSK	0.344	0.370	-1.46	3.70	5.16	23.00	21.54	26.70	5.16
16QAM	0.350	0.373	-1.41	3.70	5.11	23.00	21.59	26.70	5.11
64QAM	0.348	0.362	-1.49	3.70	5.19	23.00	21.51	26.70	5.19
BPSK	0.088	0.110	-7.03	-2.30	4.73	29.00	21.97	26.70	4.73
QPSK	0.088	0.110	-7.03	-2.30	4.73	29.00	21.97	26.70	4.73
16QAM	0.087	0.110	-7.06	-2.30	4.76	29.00	21.94	26.70	4.76
64QAM	0.087	0.110	-7.06	-2.30	4.76	29.00	21.94	26.70	4.76
BPSK	0.024	0.030	-12.68	-5.30	7.38	32.00	19.32	26.70	7.38
QPSK	0.024	0.030	-12.68	-5.30	7.38	32.00	19.32	26.70	7.38
16QAM	0.024	0.031	-12.60	-5.30	7.30	32.00	19.40	26.70	7.30
64QAM	0.024	0.031	-12.60	-5.30	7.30	32.00	19.40	26.70	7.30

EIRP limit = 11 dBm + 10 log 9.36 + 6dB = 26.7 dBm

Output power sample spectral plots:

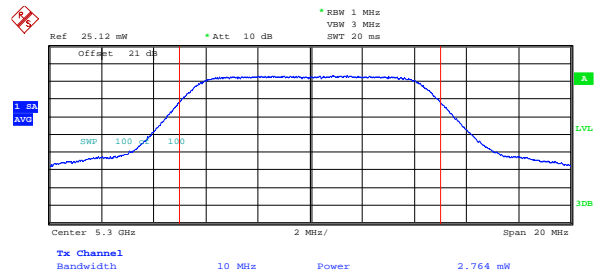


Mid Channel: Central nominal frequency: 5300 MHz

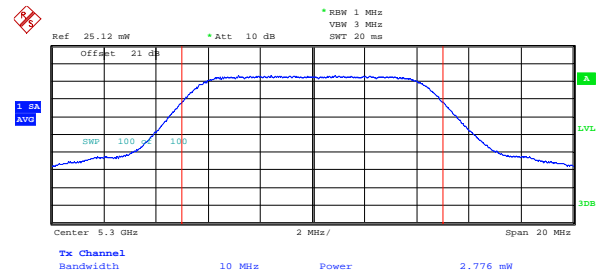
Modulation	Conducted Output Power		Combined power (dBm)	Power Limit (dBm)	Margin (dB)	Antenna Gain, (dBi)	e.i.r.p., (dBm)	e.i.r.p Limit, (dBm)	Margin, (dB)
	Ant 1, (mW)	Ant 2, (mW)							
BPSK	2.761	2.745	7.41	12.70	5.29	14.00	21.41	26.70	5.29
QPSK	2.779	2.745	7.42	12.70	5.28	14.00	21.42	26.70	5.28
16QAM	2.764	2.776	7.44	12.70	5.26	14.00	21.44	26.70	5.26
64QAM	2.744	2.772	7.42	12.70	5.28	14.00	21.42	26.70	5.28
BPSK	2.761	2.745	7.41	11.20	3.79	15.50	22.91	26.70	3.79
QPSK	2.779	2.745	7.42	11.20	3.78	15.50	22.92	26.70	3.78
16QAM	2.764	2.776	7.44	11.20	3.76	15.50	22.94	26.70	3.76
64QAM	2.744	2.772	7.42	11.20	3.78	15.50	22.92	26.70	3.78
BPSK	0.399	0.398	-0.99	3.70	4.69	23.00	22.01	26.70	4.69
QPSK	0.396	0.394	-1.02	3.70	4.72	23.00	21.98	26.70	4.72
16QAM	0.399	0.395	-1.00	3.70	4.70	23.00	22.00	26.70	4.70
64QAM	0.398	0.399	-0.99	3.70	4.69	23.00	22.01	26.70	4.69
BPSK	0.100	0.124	-6.50	-2.30	4.20	29.00	22.50	26.70	4.20
QPSK	0.099	0.123	-6.54	-2.30	4.24	29.00	22.46	26.70	4.24
16QAM	0.100	0.122	-6.54	-2.30	4.24	29.00	22.46	26.70	4.24
64QAM	0.100	0.123	-6.52	-2.30	4.22	29.00	22.48	26.70	4.22
BPSK	0.030	0.037	-11.74	-5.30	6.44	32.00	20.26	26.70	6.44
QPSK	0.030	0.036	-11.80	-5.30	6.50	32.00	20.20	26.70	6.50
16QAM	0.030	0.036	-11.80	-5.30	6.50	32.00	20.20	26.70	6.50
64QAM	0.030	0.036	-11.80	-5.30	6.50	32.00	20.20	26.70	6.50

EIRP limit = 11dBm + 10 log 9.36 + 6dB = 26.7 dBm

Output power sample spectral plots:  
Antenna Port 1



Antenna Port 2

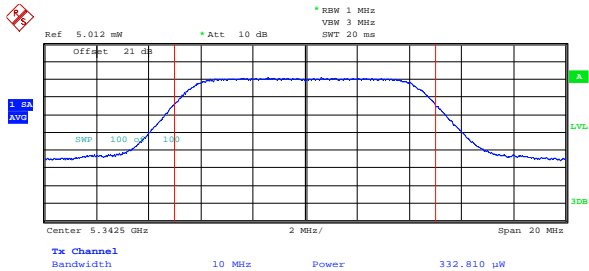


High Channel: Central nominal frequency: 5342.5 MHz

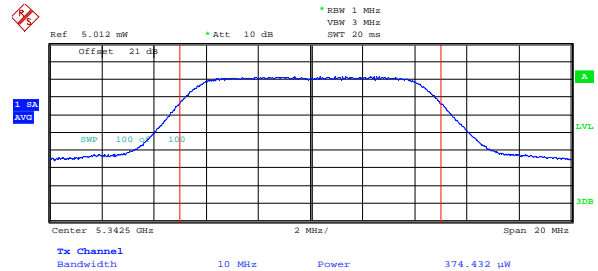
Modulation	Conducted Output Power		Combined power (dBm)	Power Limit (dBm)	Margin (dB)	Antenna Gain, (dBi)	e.i.r.p., (dBm)	e.i.r.p Limit, (dBm)	Margin, (dB)
	Ant 1, (mW)	Ant 2, (mW)							
BPSK	0.332	0.374	-1.51	12.70	14.21	14.00	12.49	26.70	14.21
QPSK	0.329	0.375	-1.52	12.70	14.22	14.00	12.48	26.70	14.22
16QAM	0.331	0.372	-1.53	12.70	14.23	14.00	12.47	26.70	14.23
64QAM	0.332	0.370	-1.54	12.70	14.24	14.00	12.46	26.70	14.24
BPSK	0.332	0.374	-1.51	11.20	12.71	15.50	13.99	26.70	12.71
QPSK	0.329	0.375	-1.52	11.20	12.72	15.50	13.98	26.70	12.72
16QAM	0.331	0.372	-1.53	11.20	12.73	15.50	13.97	26.70	12.73
64QAM	0.332	0.370	-1.54	11.20	12.74	15.50	13.96	26.70	12.74
BPSK	0.129	0.112	-6.18	3.70	9.88	23.00	16.82	26.70	9.88
QPSK	0.130	0.111	-6.18	3.70	9.88	23.00	16.82	26.70	9.88
16QAM	0.129	0.112	-6.18	3.70	9.88	23.00	16.82	26.70	9.88
64QAM	0.130	0.112	-6.16	3.70	9.86	23.00	16.84	26.70	9.86
BPSK	0.035	0.041	-11.19	-2.30	8.89	29.00	17.81	26.70	8.89
QPSK	0.035	0.041	-11.19	-2.30	8.89	29.00	17.81	26.70	8.89
16QAM	0.035	0.041	-11.19	-2.30	8.89	29.00	17.81	26.70	8.89
64QAM	0.035	0.041	-11.19	-2.30	8.89	29.00	17.81	26.70	8.89
BPSK	0.035	0.041	-11.19	-5.30	5.89	32.00	20.81	26.70	5.89
QPSK	0.035	0.041	-11.19	-5.30	5.89	32.00	20.81	26.70	5.89
16QAM	0.035	0.041	-11.19	-5.30	5.89	32.00	20.81	26.70	5.89
64QAM	0.035	0.041	-11.19	-5.30	5.89	32.00	20.81	26.70	5.89

EIRP limit = 11dBm + 10 log 9.36 + 6dB = 26.7 dBm

Output power sample spectral plots:  
Antenna Port 1



Antenna Port 2



### 20 MHz Channel

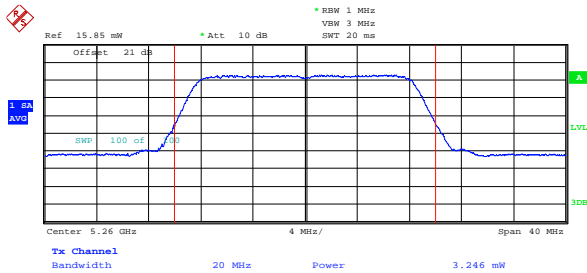
Low Channel: central nominal frequency: 5260 MHz

Modulation	Conducted Output Power		Combined power (dBm)	Power Limit (dBm)	Margin (dB)	Antenna Gain, (dBi)	e.i.r.p, (dBm)	e.i.r.p Limit, (dBm)	Margin, (dB)
	Ant 1, (mW)	Ant 2, (mW)							
BPSK	3.246	3.406	8.23	15.85	7.62	14.00	22.23	29.85	7.62
QPSK	3.240	3.377	8.21	15.85	7.64	14.00	22.21	29.85	7.64
16QAM	3.228	3.388	8.21	15.85	7.64	14.00	22.21	29.85	7.64
64QAM	3.272	3.372	8.22	15.85	7.63	14.00	22.22	29.85	7.63
BPSK	3.246	3.406	8.23	14.35	6.12	15.50	23.73	29.85	6.12
QPSK	3.240	3.377	8.21	14.35	6.14	15.50	23.71	29.85	6.14
16QAM	3.228	3.388	8.21	14.35	6.14	15.50	23.71	29.85	6.14
64QAM	3.272	3.372	8.22	14.35	6.13	15.50	23.72	29.85	6.13
BPSK	0.459	0.465	-0.34	6.85	7.19	23.00	22.66	29.85	7.19
QPSK	0.456	0.468	-0.34	6.85	7.19	23.00	22.66	29.85	7.19
16QAM	0.457	0.468	-0.34	6.85	7.19	23.00	22.66	29.85	7.19
64QAM	0.458	0.468	-0.33	6.85	7.18	23.00	22.67	29.85	7.18
BPSK	0.092	0.119	-6.76	0.85	7.61	29.00	22.24	29.85	7.61
QPSK	0.093	0.120	-6.72	0.85	7.57	29.00	22.28	29.85	7.57
16QAM	0.092	0.120	-6.74	0.85	7.59	29.00	22.26	29.85	7.59
64QAM	0.092	0.119	-6.76	0.85	7.61	29.00	22.24	29.85	7.61
BPSK	0.026	0.033	-12.29	-2.15	10.14	32.00	19.71	29.85	10.14
QPSK	0.026	0.033	-12.29	-2.15	10.14	32.00	19.71	29.85	10.14
16QAM	0.026	0.033	-12.29	-2.15	10.14	32.00	19.71	29.85	10.14
64QAM	0.026	0.033	-12.29	-2.15	10.14	32.00	19.71	29.85	10.14

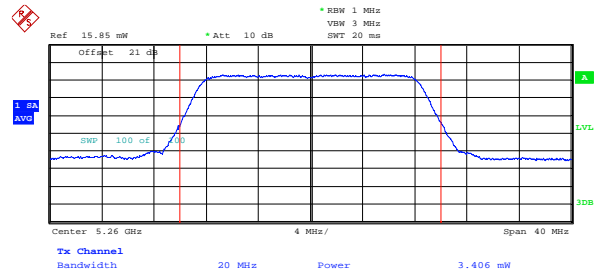
EIRP limit = 1 dBm + 10 log 19.28 + 6dB = 29.85 dBm

Output power sample spectral plots:

Antenna Port 1



Antenna Port 2



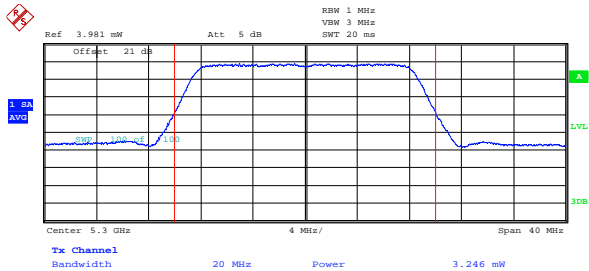


Mid Channel: central nominal frequency: 5300 MHz

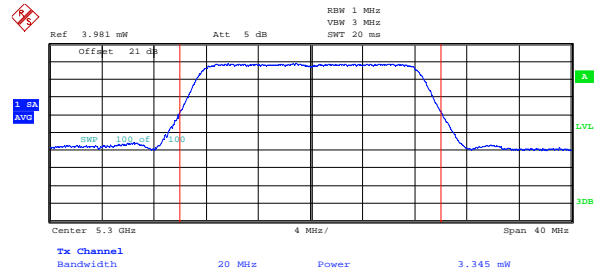
Modulation	Conducted Output Power		Combined power (dBm)	Power Limit (dBm)	Margin (dB)	Antenna Gain, (dBi)	e.i.r.p., (dBm)	e.i.r.p Limit, (dBm)	Margin, (dB)
	Ant 1, (mW)	Ant 2, (mW)							
BPSK	3.267	3.318	8.19	15.85	7.66	14.00	22.19	29.85	7.66
QPSK	3.217	3.357	8.18	15.85	7.67	14.00	22.18	29.85	7.67
16QAM	3.265	3.311	8.18	15.85	7.67	14.00	22.18	29.85	7.67
64QAM	3.246	3.345	8.19	15.85	7.66	14.00	22.19	29.85	7.66
BPSK	3.267	3.318	8.19	14.35	6.16	15.50	23.69	29.85	6.16
QPSK	3.217	3.357	8.18	14.35	6.17	15.50	23.68	29.85	6.17
16QAM	3.265	3.311	8.18	14.35	6.17	15.50	23.68	29.85	6.17
64QAM	3.246	3.345	8.19	14.35	6.16	15.50	23.69	29.85	6.16
BPSK	0.455	0.480	-0.29	6.85	7.14	23.00	22.71	29.85	7.14
QPSK	0.456	0.479	-0.29	6.85	7.14	23.00	22.71	29.85	7.14
16QAM	0.456	0.472	-0.32	6.85	7.17	23.00	22.68	29.85	7.17
64QAM	0.456	0.473	-0.32	6.85	7.17	23.00	22.68	29.85	7.17
BPSK	0.112	0.129	-6.18	0.85	7.03	29.00	22.82	29.85	7.03
QPSK	0.112	0.128	-6.20	0.85	7.05	29.00	22.80	29.85	7.05
16QAM	0.112	0.129	-6.18	0.85	7.03	29.00	22.82	29.85	7.03
64QAM	0.112	0.129	-6.18	0.85	7.03	29.00	22.82	29.85	7.03
BPSK	0.031	0.037	-11.67	-2.15	9.52	32.00	20.33	29.85	9.52
QPSK	0.031	0.038	-11.61	-2.15	9.46	32.00	20.39	29.85	9.46
16QAM	0.031	0.037	-11.67	-2.15	9.52	32.00	20.33	29.85	9.52
64QAM	0.030	0.038	-11.67	-2.15	9.52	32.00	20.33	29.85	9.52

EIRP limit = 11dBm + 10 log 19.28 + 6dB = 29.85 dBm

Output power sample spectral plots:  
Antenna Port 1



Antenna Port 2



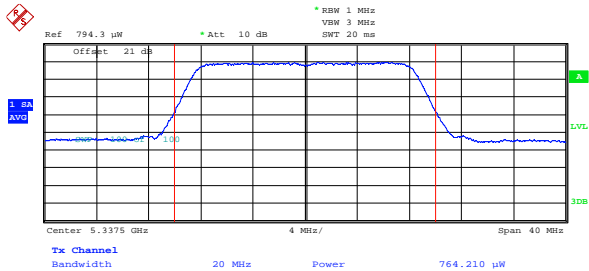
High Channel: central nominal frequency: 5337.5 MHz

Modulation	Conducted Output Power		Combined power (dBm)	Power Limit (dBm)	Margin (dB)	Antenna Gain, (dBi)	e.i.r.p., (dBm)	e.i.r.p Limit, (dBm)	Margin, (dB)
	Ant 1, (mW)	Ant 2, (mW)							
BPSK	0.764	0.681	1.60	15.85	14.25	14.00	15.60	29.85	14.25
QPSK	0.751	0.681	1.56	15.85	14.29	14.00	15.56	29.85	14.29
16QAM	0.752	0.685	1.57	15.85	14.28	14.00	15.57	29.85	14.28
64QAM	0.763	0.684	1.60	15.85	14.25	14.00	15.60	29.85	14.25
BPSK	0.764	0.681	1.60	14.35	12.75	15.50	17.10	29.85	12.75
QPSK	0.751	0.681	1.56	14.35	12.79	15.50	17.06	29.85	12.79
16QAM	0.752	0.685	1.57	14.35	12.78	15.50	17.07	29.85	12.78
64QAM	0.763	0.684	1.60	14.35	12.75	15.50	17.10	29.85	12.75
BPSK	0.237	0.218	-3.42	6.85	10.27	23.00	19.58	29.85	10.27
QPSK	0.237	0.217	-3.43	6.85	10.28	23.00	19.57	29.85	10.28
16QAM	0.236	0.219	-3.42	6.85	10.27	23.00	19.58	29.85	10.27
64QAM	0.236	0.220	-3.41	6.85	10.26	23.00	19.59	29.85	10.26
BPSK	0.035	0.041	-11.19	0.85	12.04	29.00	17.81	29.85	12.04
QPSK	0.035	0.041	-11.19	0.85	12.04	29.00	17.81	29.85	12.04
16QAM	0.035	0.041	-11.19	0.85	12.04	29.00	17.81	29.85	12.04
64QAM	0.035	0.041	-11.19	0.85	12.04	29.00	17.81	29.85	12.04
BPSK	0.035	0.041	-11.19	-2.15	9.04	32.00	20.81	29.85	9.04
QPSK	0.035	0.041	-11.19	-2.15	9.04	32.00	20.81	29.85	9.04
16QAM	0.035	0.041	-11.19	-2.15	9.04	32.00	20.81	29.85	9.04
64QAM	0.035	0.041	-11.19	-2.15	9.04	32.00	20.81	29.85	9.04

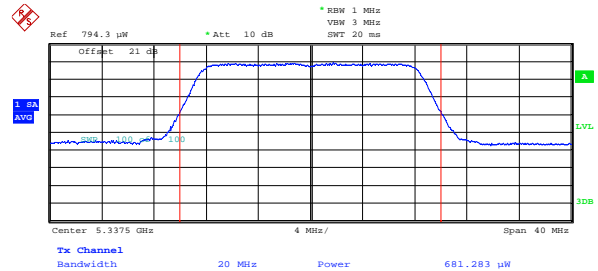
EIRP limit = 11dBm + 10 log 19.28 + 6dB = 29.85 dBm

Output power sample spectral plots:

Antenna Port 1



Antenna Port 2



**PPSD Measurement:**

The PPSD was measured on the antenna port 1 and 2 by means of a spectrum analyzer and following the ‘Method 2’ procedure from the FCC Public Notice Ref: DA: 02-2138, Measurement Procedure for Peak Transmit Power in UNII Band.

The total PPSD at each antenna port was measured individually and the aggregate PPSD was summed up mathematically.

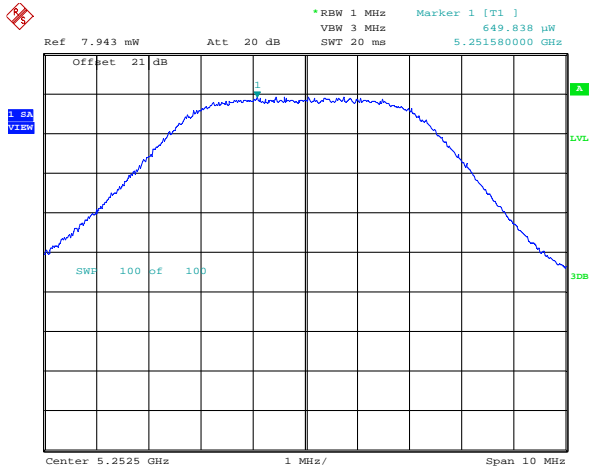
All modulations were investigated, only the worst case data is presented.

**5 MHz Channel**

Channel	Conducted PPSD		Combined PPSD (dBm)	PSD Limit (dBm)	Margin (dB)	Antenna Gain, (dBi)	e.i.r.p, PSD (dBm)	e.i.r.p PSD Limit, (dBm)	Margin, (dB)
	Ant 1, (mW)	Ant 2, (mW)							
Low	0.649	0.677	1.23	3.00	1.77	14.00	15.23	17.00	1.77
	0.649	0.677	1.23	1.50	0.27	15.50	16.73	17.00	0.27
	0.102	0.119	-6.56	-6.00	0.56	23.00	16.44	17.00	0.56
	0.010	0.012	-16.58	-12.00	4.58	29.00	12.42	17.00	4.58
	0.010	0.012	-16.58	-15.00	1.58	32.00	15.42	17.00	1.58
Mid	0.669	0.705	1.38	3.00	1.62	14.00	15.38	17.00	1.62
	0.669	0.705	1.38	1.50	0.12	15.50	16.88	17.00	0.12
	0.119	0.128	-6.07	-6.00	0.07	23.00	16.93	17.00	0.07
	0.012	0.015	-15.69	-12.00	3.69	29.00	13.31	17.00	3.69
	0.012	0.015	-15.69	-15.00	0.69	32.00	16.31	17.00	0.69
High	0.048	0.055	-9.87	3.00	12.87	14.00	4.13	17.00	12.87
	0.048	0.055	-9.87	1.50	11.37	15.50	5.63	17.00	11.37
	0.016	0.018	-14.69	-6.00	8.69	23.00	8.31	17.00	8.69
	0.005	0.006	-19.59	-12.00	7.59	29.00	9.41	17.00	7.59
	0.005	0.006	-19.59	-15.00	4.59	32.00	12.41	17.00	4.59

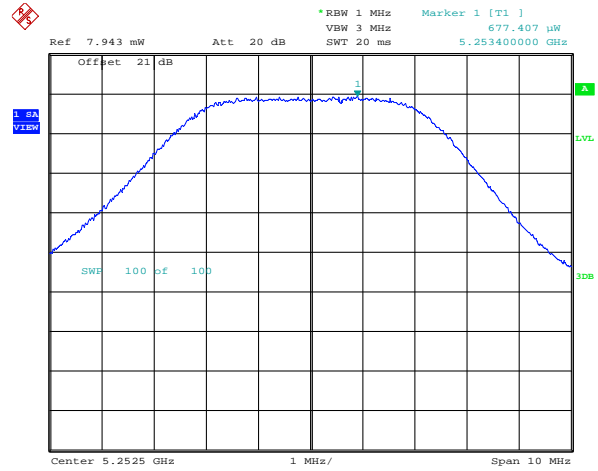
PPSD Low channel sample spectral plots:

Antenna Port 1



Date: 9.DEC.2010 15:08:46

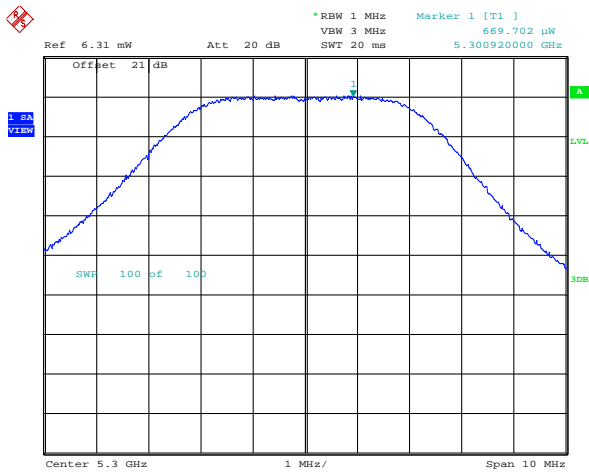
Antenna Port 2



Date: 9.DEC.2010 15:07:36

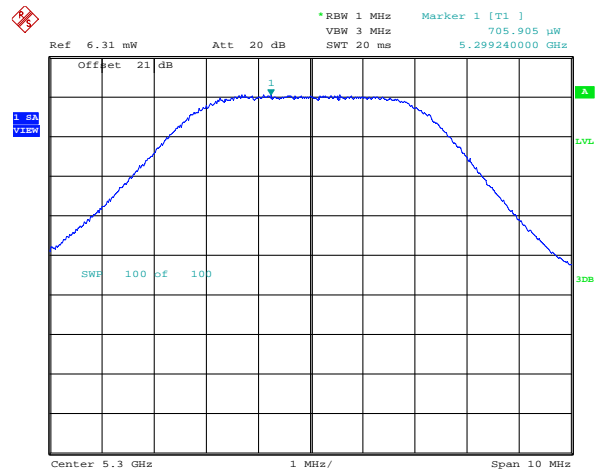
PPSD Mid channel sample spectral plots:

Antenna Port 1



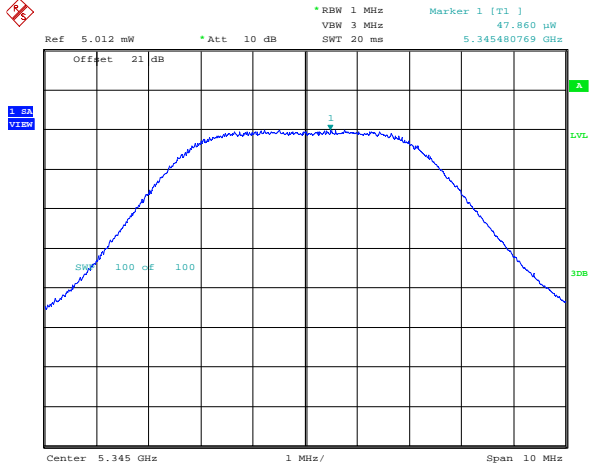
Date: 9.DEC.2010 15:19:05

Antenna Port 2



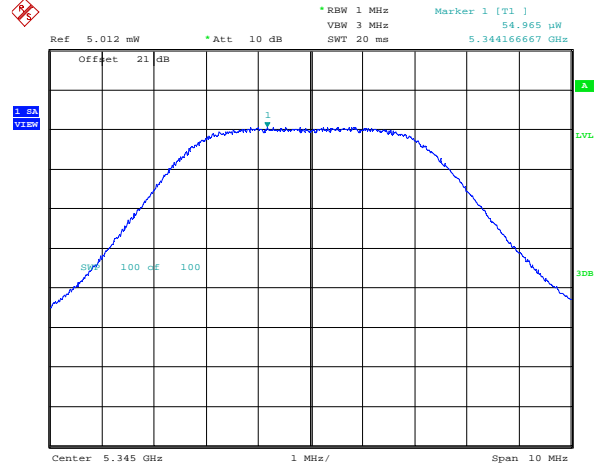
Date: 9.DEC.2010 15:17:45

PPSD High channel sample spectral plots:  
Antenna Port 1



Date: 4.FEB.2011 20:36:32

Antenna Port 2



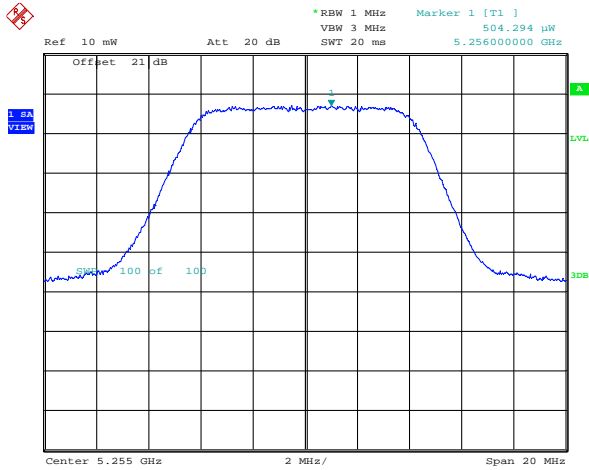
Date: 4.FEB.2011 20:34:54

10 MHz Channel

Channel	Conducted PPSD		Combined PPSD (dBm)	PSD Limit (dBm)	Margin (dB)	Antenna Gain, (dBi)	e.i.r.p, PSD (dBm)	e.i.r.p PSD Limit, (dBm)	Margin, (dB)
	Ant 1, (mW)	Ant 2, (mW)							
Low	0.504	0.546	0.21	3.00	2.79	14.00	14.21	17.00	2.79
	0.504	0.546	0.21	1.50	1.29	15.50	15.71	17.00	1.29
	0.048	0.052	-10.00	-6.00	4.00	23.00	13.00	17.00	4.00
	0.013	0.018	-15.09	-12.00	3.09	29.00	13.91	17.00	3.09
	0.004	0.006	-20.00	-15.00	5.00	32.00	12.00	17.00	5.00
Mid	0.611	0.625	0.92	3.00	2.08	14.00	14.92	17.00	2.08
	0.611	0.625	0.92	1.50	0.58	15.50	16.42	17.00	0.58
	0.062	0.065	-8.96	-6.00	2.96	23.00	14.04	17.00	2.96
	0.018	0.024	-13.77	-12.00	1.77	29.00	15.23	17.00	1.77
	0.006	0.008	-18.54	-15.00	3.54	32.00	13.46	17.00	3.54
High	0.062	0.056	-9.28	3.00	12.28	14.00	4.72	17.00	12.28
	0.062	0.056	-9.28	1.50	10.78	15.50	6.22	17.00	10.78
	0.024	0.027	-12.92	-6.00	6.92	23.00	10.08	17.00	6.92
	0.008	0.009	-17.70	-12.00	5.70	29.00	11.30	17.00	5.70
	0.008	0.009	-17.70	-15.00	2.70	32.00	14.30	17.00	2.70

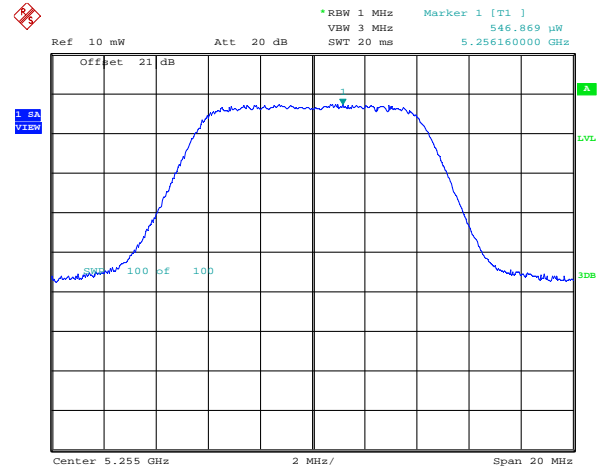
PPSD Low channel sample spectral plots:

Antenna Port 1



Date: 9.DEC.2010 14:05:33

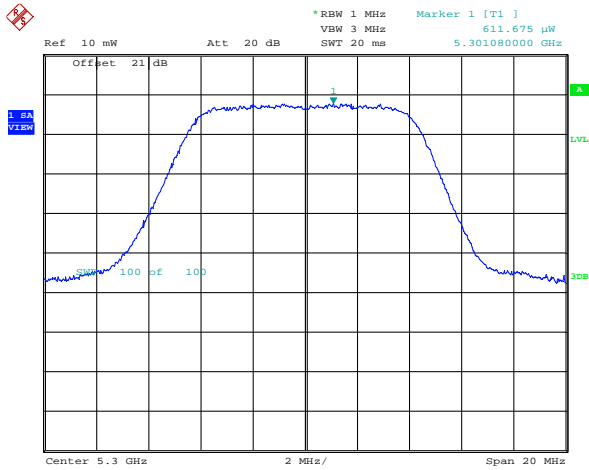
Antenna Port 2



Date: 9.DEC.2010 14:13:12

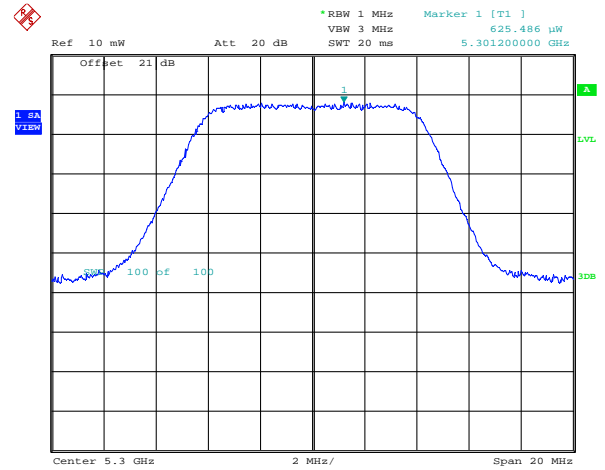
PPSD Mid channel sample spectral plots:

Antenna Port 1



Date: 9.DEC.2010 14:33:56

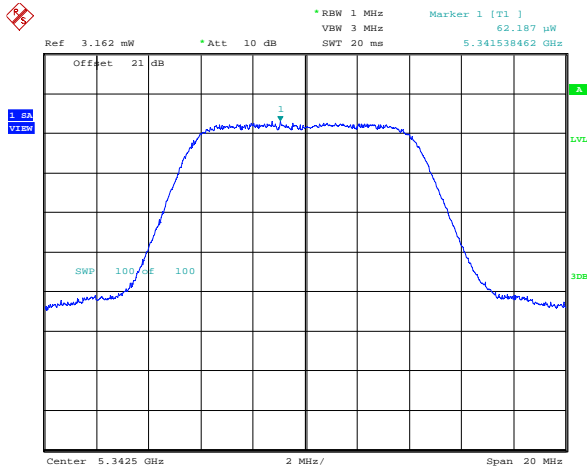
Antenna Port 2



Date: 9.DEC.2010 14:35:06

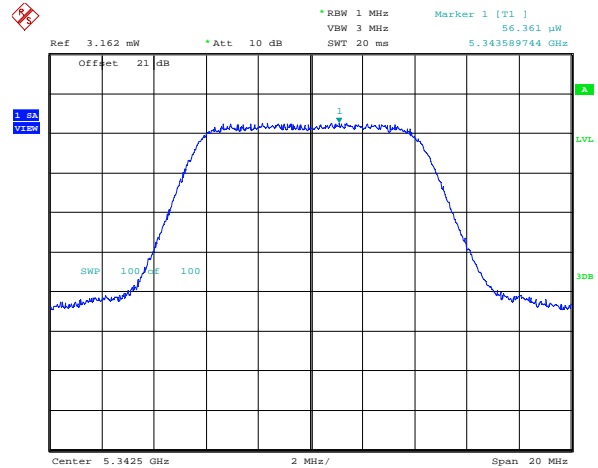
PPSD High channel sample spectral plots:

Antenna Port 1



Date: 4.FEB.2011 20:59:11

Antenna Port 2



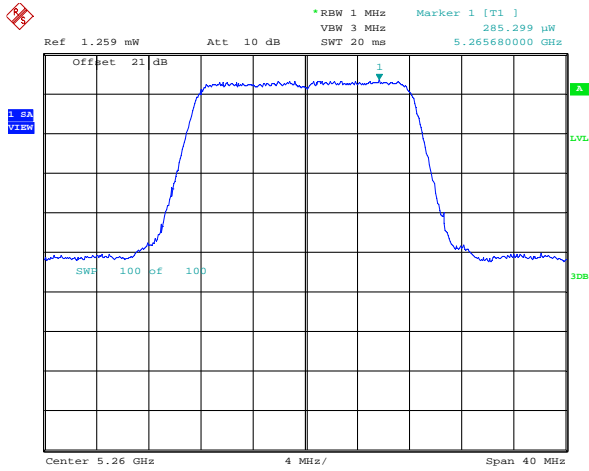
Date: 4.FEB.2011 21:01:05

**20 MHz Channel**

Channel	Conducted PPSD		Combined PPSD (dBm)	PSD Limit (dBm)	Margin (dB)	Antenna Gain, (dBi)	e.i.r.p, PSD (dBm)	e.i.r.p PSD Limit, (dBm)	Margin, (dB)
	Ant 1, (mW)	Ant 2, (mW)							
Low	0.285	0.289	-2.41	3.00	5.41	14.00	11.59	17.00	5.41
	0.285	0.289	-2.41	1.50	3.91	15.50	13.09	17.00	3.91
	0.039	0.041	-10.97	-6.00	4.97	23.00	12.03	17.00	4.97
	0.007	0.010	-17.70	-12.00	5.70	29.00	11.30	17.00	5.70
	0.005	0.005	-20.00	-15.00	5.00	32.00	12.00	17.00	5.00
Mid	0.284	0.302	-2.32	3.00	5.32	14.00	11.68	17.00	5.32
	0.284	0.302	-2.32	1.50	3.82	15.50	13.18	17.00	3.82
	0.038	0.040	-11.08	-6.00	5.08	23.00	11.92	17.00	5.08
	0.009	0.011	-16.99	-12.00	4.99	29.00	12.01	17.00	4.99
	0.005	0.006	-19.59	-15.00	4.59	32.00	12.41	17.00	4.59
High	0.059	0.052	-9.55	3.00	12.55	14.00	4.45	17.00	12.55
	0.059	0.052	-9.55	1.50	11.05	15.50	5.95	17.00	11.05
	0.022	0.022	-13.57	-6.00	7.57	23.00	9.43	17.00	7.57
	0.006	0.004	-20.00	-12.00	8.00	29.00	9.00	17.00	8.00
	0.006	0.004	-20.00	-15.00	5.00	32.00	12.00	17.00	5.00

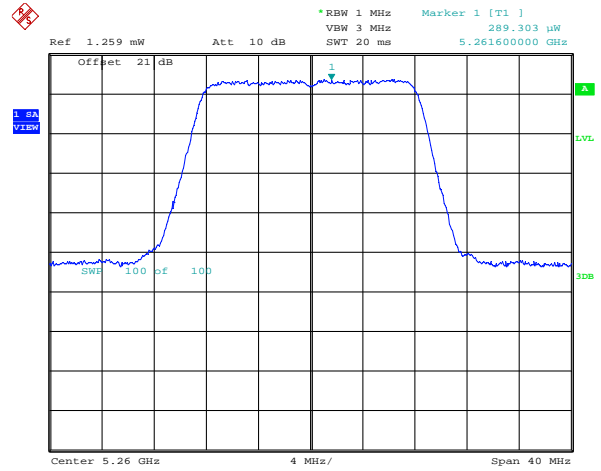
PPSD Low channel sample spectral plots:

Antenna Port 1



Date: 9.DEC.2010 12:41:54

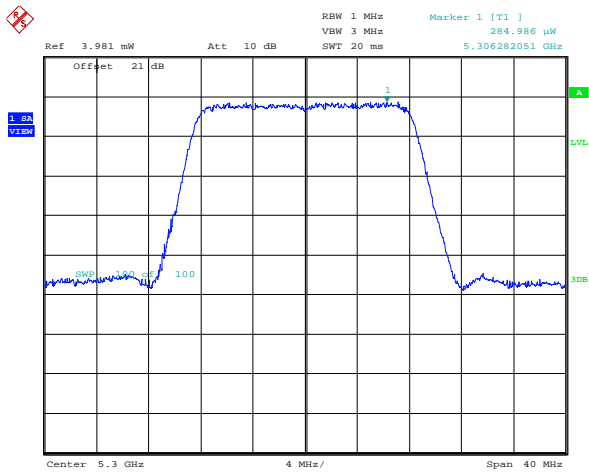
Antenna Port 2



Date: 9.DEC.2010 12:39:18

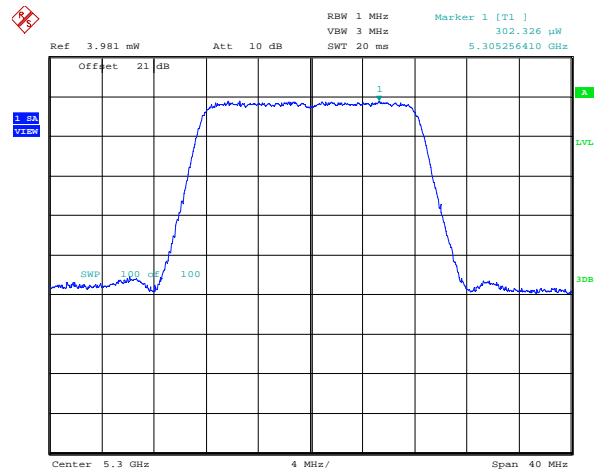
PPSD Mid channel sample spectral plots:

Antenna Port 1



Date: 10.FEB.2011 16:20:18

Antenna Port 2

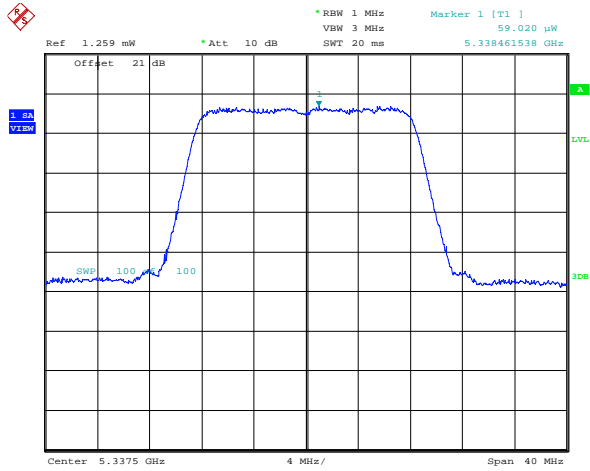


Date: 10.FEB.2011 16:18:47



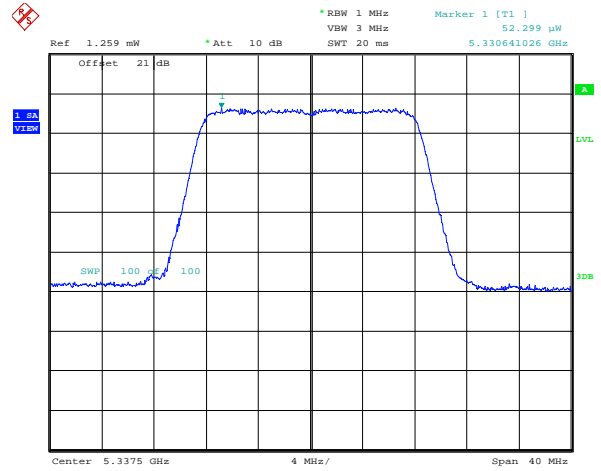
PPSD High channel sample spectral plots:

Antenna Port 1



Date: 4.FEB.2011 21:30:14

Antenna Port 2



Date: 4.FEB.2011 21:29:02