

# TEST REPORT

**ACCORDING TO: FCC part 15 subpart E and RSS-210 Issue 8, Annex 9**

FOR:

**RADWIN Ltd.**

**Outdoor radio unit operating  
in the 5.4 GHz band**

**Model: RADWIN 1000,  
RADWIN 2000,  
RADWIN 5000**

This report is in conformity with ISO/ IEC 17025. The "A2LA Accredited" symbol endorsement applies only to the tests and calibrations that are listed in the scope of Hermon Laboratories accreditation. The test results relate only to the items tested. This test report shall not be reproduced in any form except in full with the written approval of Hermon Laboratories Ltd.



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## 1 Applicant information

**Client name:** RADWIN Ltd.  
**Address:** 27 Habarzel str., Tel Aviv 69710, Israel  
**Telephone:** +972 3766 2988  
**Fax:** +972 3766 2902  
**E-mail:** shlomo\_weiss@radwin.com  
**Contact name:** Mr. Shlomo Weiss

## 2 Equipment under test attributes

**Product name:** Outdoor radio unit operating in 5.4 GHz band  
**Product type:** Point to Point and Point to Multipoint transceiver  
**Model(s):** RADWIN 1000, RADWIN 2000, RADWIN 5000  
**Receipt date** 10/29/2009

## 3 Manufacturer information

**Manufacturer name:** RADWIN Ltd.  
**Address:** 27 Habarzel str., Tel Aviv 69710, Israel  
**Telephone:** +972 3766 2988  
**Fax:** +972 3766 2902  
**E-Mail:** shlomo\_weiss@radwin.com  
**Contact name:** Mr. Shlomo Weiss

## 4 Test details

**Project ID:** 20146  
**Location:** Hermon Laboratories Ltd. P.O.Box 23, Binyamina 30500, Israel  
**Test started:** 10/29/2009  
**Test completed:** 12/8/2009  
**Test specification(s):** FCC part 15 subpart E;  
RSS-210 Issue 8:2010, Annex 9  
RSS-Gen Issue 3:2010



## 5 Tests summary

Test	Status
<b>Transmitter characteristics</b>	
FCC Section 15.407(a)(3) / RSS-Gen, Section 4.6, Occupied 26 dB bandwidth	Measured
FCC Section 15.407(a)(3) / RSS-210, Section A9.2, Maximum peak output power	Pass
FCC Section 15.407(a)(3) / RSS-210, Section A9.2, Peak power spectral density	Pass
FCC Section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power	Pass
FCC Section 15.407(b) / RSS-210, Section A9.2, Unwanted radiated emission	Pass
FCC Section 15.407(b) / RSS-210, Section A9.2, Unwanted conducted emission	Pass
FCC Section 15.407(b)(6), 15.207/ RSS-Gen, Section 7.2.4, Conducted emission	Pass
FCC Section 15.407(f), / RSS-Gen, Section 5.6, RF exposure	Provided in documentation for Application
FCC Section 15.407(g), Frequency stability	Pass
RSS-Gen, Section 6, 4.10, Receiver spurious radiated emission	Pass
RSS-Gen, Section 4.6.1, 99% emission occupied bandwidth	Measured
FCC section 15.203, RSS-Gen section 7.1.2, Antenna requirement	Pass

Note: The EUT model RADWIN 2000 with power setting that produced Maximum Output Power with maximum Antenna Gain 23.5 and 28 dBi was tested as the worst case between all RADWIN 1000, 2000, 5000 models. The more detailed description of RADWIN 1000, 2000, 5000 is provided in section 6.1 of the test report.

Testing was completed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested. The test results relate only to the items tested. Pass/ fail decision was based on nominal values.

This test report replaces the previously issued test report identified by Doc ID "RDWRAD\_FCC.20146\_21882".

	Name and Title	Date	Signature
<b>Tested by:</b>	Mr. S. Samokha, test engineer	December 8, 2009	
<b>Reviewed by:</b>	Ms. N. Averin, certification engineer	April 17, 2011	
<b>Approved by:</b>	Mr. M. Nikishin, EMC and Radio group manager	April 17, 2011	

## 6 EUT description

### 6.1 General information

The EUT, RADWIN 1000, RADWIN 2000, RADWIN 5000 is an outdoor unit (ODU). The power and Ethernet communication are supplied by an indoor unit (IDU) or PoE device. It has connectorized and integrated antenna configurations that can support dual pole antenna type. The RADWIN 1000 activates one RF port, RADWIN 2000 activates two RF ports for software configured Point to Point topology and RADWIN 5000 is identifier for software configured Point to Multipoint topology .For relevant output power setting versus each antenna type please refer to RADWIN 5000 Antenna List and Power Settings and RADWIN 1000/2000 Antenna List and Power Settings attached.

The EUT model RADWIN 2000 was tested as worst case representative.

### 6.2 Ports and lines

Port type	Port description	Conn. from	Conn. to	Qty.	Cable type	Cable length	Indoor / outdoor
Power	DC Power+ Ethernet	IDU	EUT	1	Shielded	20	Outdoor
RF1	RF1 (Antenna 1)	EUT	Antenna	1	Coax	1	Outdoor*
RF2	RF2 (Antenna 2)	EUT	Antenna	1	Coax	1	Outdoor*
Power	DC Power	AC/DC adaptor	IDU	1	Unshielded	1.5	Indoor
Power	AC Power	mains	AC/DC adaptor	1	Unshielded	1.5	Indoor
Signal	Ethernet	Laptop	IDU	1	Shielded	1	Indoor

\* - for external antenna configuration only

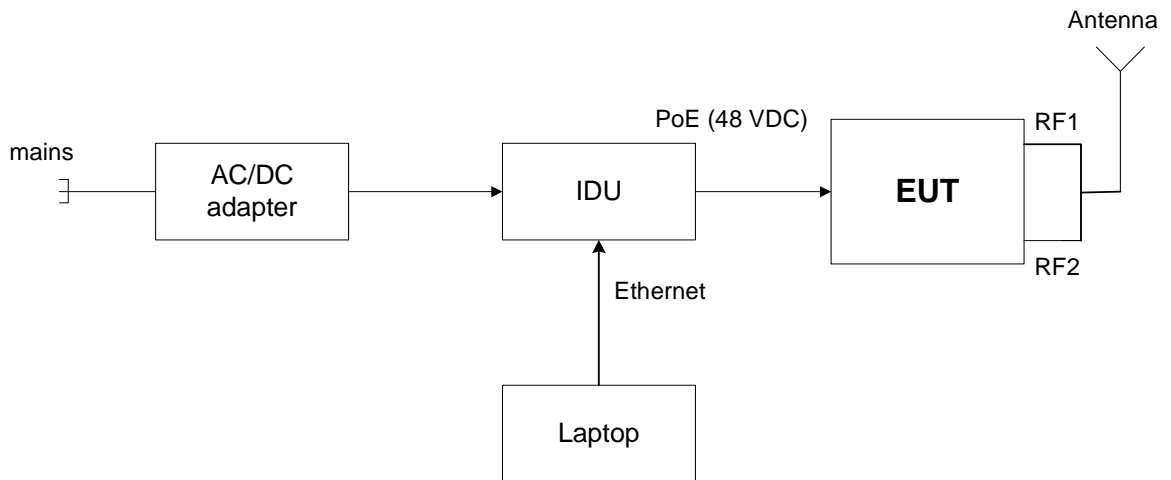
### 6.3 Support and test equipment

Description	Manufacturer	Model number	Serial number
Laptop	Dell	Latitude/D530	NA
IDU (for configuration with ODU)	RadWin Ltd.	IDU-E	DE000201267
AC/DC	YCL	WMB480042-5G	S0714002271

### 6.4 Changes made in the EUT

No changes were implemented.

## 6.5 Test configuration



Error!



### 6.6 Transmitter characteristics

<b>Type of equipment</b>			
X	Stand-alone (Equipment with or without its own control provisions)		
<b>Intended use</b>		<b>Condition of use</b>	
X	fixed	Always at a distance more than 2 m from all people	
<b>Assigned frequency range</b>		5470 - 5725 MHz	
<b>Operating frequency range</b>		5480 - 5715 MHz	
<b>Maximum rated output power</b>	<b>Peak (conducted)</b>	6.73 dBm with 22.5 dBi antenna 5.73 dBm with 23.5 dBi antenna 1.72 dBm with 28 dBi antenna 23.74 dBm with 6 dBi antenna 6.73 dBm with 15.5 dBi antenna 6.73 dBm with 13.0 dBi antenna	
<b>Antenna connection</b>			
unique coupling	X	standard connector, N-type	integral
		X with temporary RF connector without temporary RF connector	
<b>Antenna/s technical characteristics</b>			
Type	Manufacturer	Model number	Gain
Flat Panel – Dual polarized external	RADWIN Ltd.	RW-9611-4958	6.0 dBi (23.5 dBi with 17.5 dB feeder loss)
Dish – Dual polarized External	RADWIN Ltd.	RW-9721-5158	6.0 dBi (28.9 dBi with 22.9 dB feeder loss)
Flat Panel – Dual polarized Integrated	RADWIN Ltd.	RW-9611-4958INT	23.5 dBi
Flat Panel – Dual polarized external	RADWIN Ltd.	RW-9611-4958	22.5 dBi (23.5 dBi with 1.0 dB feeder loss)
Dish – Dual polarized External	RADWIN Ltd.	RW-9721-5158	27.9 dBi (28.9 dBi with 1.0 dB feeder loss)
Flat Panel – Dual polarized external	RADWIN Ltd.	RW-9061-5002	15.5 dBi (16.5 dBi with 1.0 dB feeder loss)
Flat Panel – Dual polarized external	RADWIN Ltd.	RW-9061-5001	13.0 dBi (14.0 dBi with 1.0 dB feeder loss)
Flat Panel – Dual polarized external	RADWIN Ltd.	RW-9061-5002	6.0 dBi (16.5 dBi with 10.5 dB feeder loss)
Flat Panel – Dual polarized external	RADWIN Ltd.	RW-9061-5001	6.0 dBi (14.0 dBi with 8.0 dB feeder loss)
<b>Nominal channel bandwidth</b>	<b>Transmitter aggregate data rate/s, MBps</b>	<b>Type of modulation</b>	
5 MHz	3.25	BPSK	
	32.5	64QAM	
10 MHz	6.5	BPSK	
	65	64QAM	
20 MHz	13	BPSK	
	130	64QAM	
40 MHz	27	BPSK	
	270	64QAM	
<b>Maximum transmitter duty cycle in normal use</b>	92%		
<b>Transmitter duty cycle supplied for test</b>	100%		

Table 6.6.1 Measurement frequencies according to RSS-210 Annex 9 requirements

Channel bandwidth, MHz	Channel frequency, MHz			
	Low	Mid 1	Mid 2	High
5	5480	5590	5660	5715
10	5485	5585	5665	5710
20	5490	5580	5670	5705
40	5500, 5505	5565, 5570	5680, 5685	5690, 5695



<b>Test specification:</b>	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b>			

## 7 Transmitter tests according to 47CFR part 15 subpart E and RSS-210 Annex 9 requirements

### 7.1 Peak output power and peak spectral power density

#### 7.1.1 General

This test was performed to measure the maximum peak output power and the peak spectral power density at the transmitter RF antenna connector. Specification test limits are given in Table 7.1.1.

Table 7.1.1 Peak output power and peak spectral power density limits

Assigned frequency range, MHz	Maximum peak transmit power*, dBm	Peak spectral power density*, dBm	Measurement bandwidth, MHz
5470 - 5725	The lesser of 250 mW or 11 dBm +10 log B**	11.0	1.0

\*Note 1: due to 22.5 dBi antenna assembly gain the limits of peak output power and peak power spectral density shall be reduced by 16.5 dB, due to 28 dBi antenna assembly gain the limits of peak output power and peak power spectral density shall be reduced by 22 dB;

\*\*Note 2: "B" is the 26-dB emission bandwidth in MHz.

#### 7.1.2 Test procedure

7.1.2.1 The EUT was set up as shown in Figure 7.1.1, energized and its proper operation was checked.

7.1.2.2 The EUT was set to transmit modulated carrier at maximum data rate.

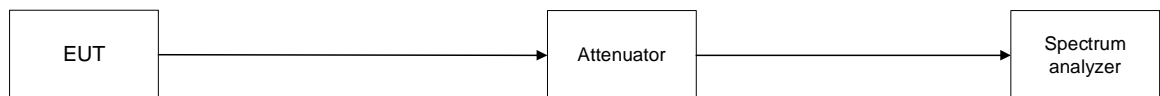
7.1.2.3 The measurements were performed in continuous transmission mode of operation for carrier (channel) frequencies at low and high edges and at the middle of the frequency range shown in Table 7.1.1. The transmitter 26 dB bandwidth was measured with spectrum analyzer as frequency delta between reference points on modulation envelope and provided in the associated tables and plots.

7.1.2.4 The EUT was adjusted to produce maximum available for end user RF output power.

7.1.2.5 The peak output power measurements were performed in continuous transmission mode of operation for carrier (channel) frequency at low, mid and high edges. The power was computed by integrating the spectrum across the 26 dB bandwidth of the signal as provided in the associated tables and plots.

7.1.2.6 The peak power spectral density was measured using a sample detector and power averaging mode to find the highest level across the emission in any 1-MHz band after 100 sweeps of averaging. The test results are provided in the associated tables and plots.

Figure 7.1.1 Peak output power test setup







<b>Test specification:</b>	<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

Table 7.1.2 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 DETECTOR USED: Peak  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz  
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)  
 ANTENNA ASSEMBLY GAIN: 22.5dBi  
 EMISSION BANDWIDTH: 40 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, MBps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel In-Band</b>								
5505	45.15	27	BPSK	3.04	6.04	7.50	-1.46	Pass
5505	46.05	270	64QAM	3.73	6.73	7.50	-0.77	Pass
<b>Low channel</b>								
5500	48.00	27	BPSK	0.45	3.45	7.50	-4.05	Pass
5500	47.55	270	64QAM	0.88	3.88	7.50	-3.62	Pass
<b>First mid channel In-Band</b>								
5565	46.20	27	BPSK	3.44	6.44	7.50	-1.06	Pass
5565	46.05	270	64QAM	3.48	6.48	7.50	-1.02	Pass
<b>First mid channel</b>								
5570	47.85	27	BPSK	-0.23	2.77	7.50	2.77	Pass
5570	46.65	270	64QAM	-0.15	2.85	7.50	2.85	Pass
<b>Second mid channel (for IC only) In-Band</b>								
5685	46.20	27	BPSK	1.27	4.27	7.50	-3.23	Pass
5685	45.45	270	64QAM	0.92	3.92	7.50	-3.58	Pass
<b>Second mid channel (for IC only)</b>								
5680	47.25	27	BPSK	-1.31	1.69	7.50	-5.81	Pass
5680	47.55	270	64QAM	-1.28	1.72	7.50	-5.78	Pass
<b>High channel In-Band</b>								
5690	46.50	27	BPSK	1.46	4.46	7.50	-3.04	Pass
5690	45.75	270	64QAM	1.71	4.71	7.50	-2.79	Pass
<b>High channel</b>								
5695	47.55	27	BPSK	-1.66	1.34	7.50	-6.16	Pass
5695	46.80	270	64QAM	-1.62	1.38	7.50	-6.12	Pass

\* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

\*\* - Margin = Total output power – specification limit.

#### Reference numbers of test equipment used

HL2909	HL 2952	HL 3442				
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Full description is given in Appendix A.



<b>Test specification:</b>	<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

Table 7.1.3 Peak power spectral density test results

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 DETECTOR USED: Sample  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz  
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)  
 ANTENNA ASSEMBLY GAIN: 22.5dBi  
 EMISSION BANDWIDTH: 40 MHz

Frequency, MHz	Bit Rate, MBps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel In-Band</b>							
5505	27	BPSK	-16.93	-13.93	-5.5	-8.43	Pass
5505	270	64QAM	-16.66	-13.66	-5.5	-8.16	Pass
<b>Low channel</b>							
5500	27	BPSK	-18.84	-15.84	-5.5	-10.34	Pass
5500	270	64QAM	-19.15	-16.15	-5.5	-10.65	Pass
<b>First mid channel In-Band</b>							
5565	27	BPSK	-16.82	-13.82	-5.5	-8.32	Pass
5565	270	64QAM	-16.89	-13.89	-5.5	-8.39	Pass
<b>First mid channel</b>							
5570	27	BPSK	-19.96	-16.96	-5.5	-11.46	Pass
5570	270	64QAM	-19.70	-16.70	-5.5	-11.20	Pass
<b>Second mid channel (for IC only) In-Band</b>							
5685	27	BPSK	-18.32	-15.32	-5.5	-9.82	Pass
5685	270	64QAM	-18.79	-15.79	-5.5	-10.29	Pass
<b>Second mid channel (for IC only)</b>							
5680	27	BPSK	-20.87	-17.87	-5.5	-12.37	Pass
5680	270	64QAM	-20.73	-17.73	-5.5	-12.23	Pass
<b>High channel In-Band</b>							
5690	27	BPSK	-18.59	-15.89	-5.5	-10.39	Pass
5690	270	64QAM	-18.67	-15.67	-5.5	-10.17	Pass
<b>High channel</b>							
5695	27	BPSK	-21.75	-18.75	-5.5	-13.25	Pass
5695	270	64QAM	-21.32	-18.32	-5.5	-12.82	Pass

\* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

\*\* - Margin = Total peak power density – specification limit.

## Reference numbers of test equipment used

HL 2909	HL 2952	HL 3442				
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Full description is given in Appendix A.

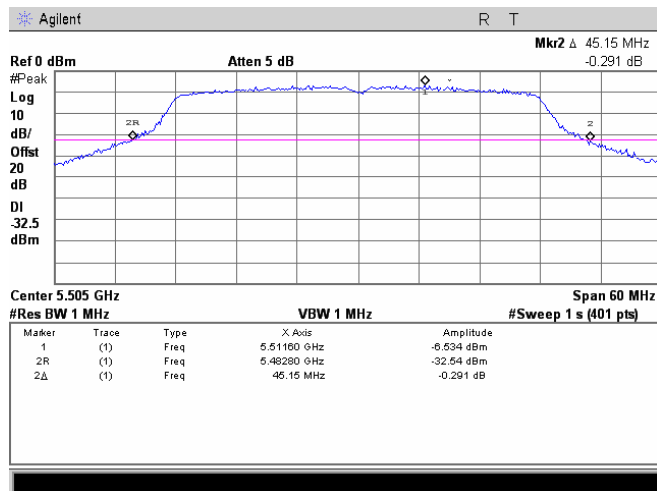


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

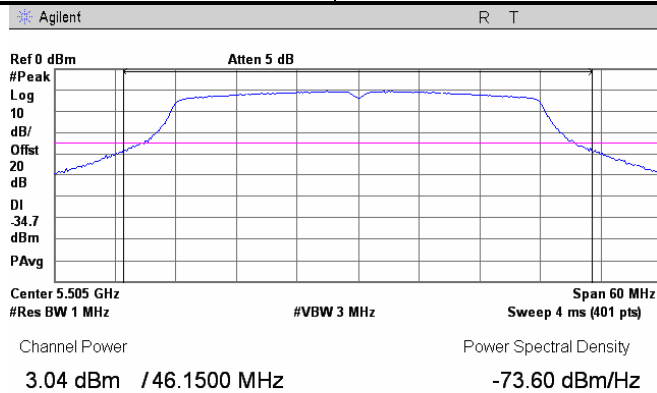
Plot 7.1.1 The 26 dB emission bandwidth

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.2 Peak output power

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



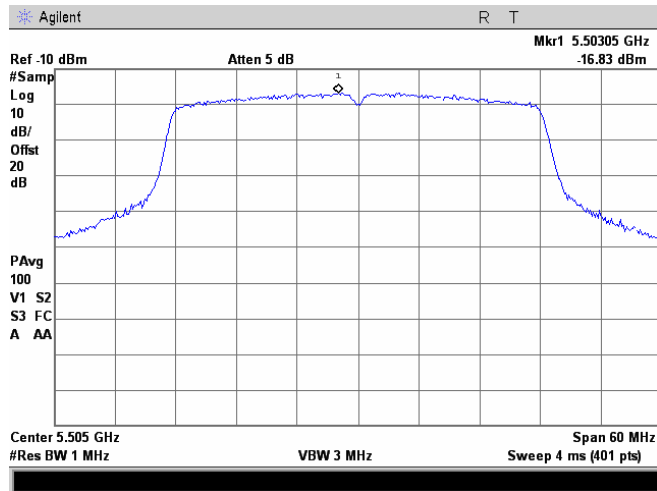


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2</b>	
		<b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

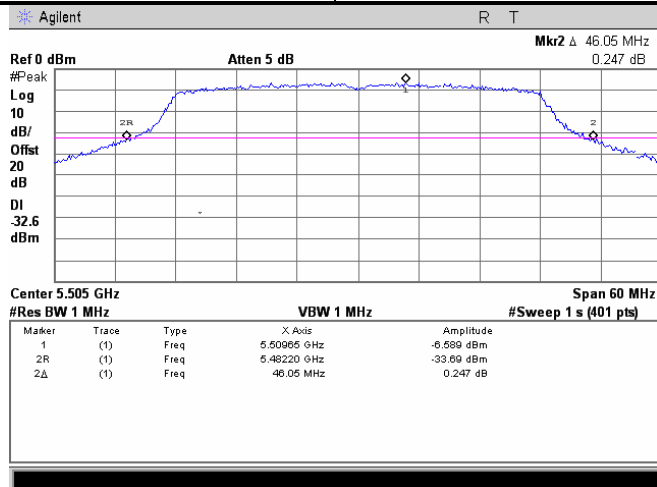
Plot 7.1.3 Peak spectral power density

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.4 The 26 dB emission bandwidth

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 270 Mbps
NOTE	In-Band



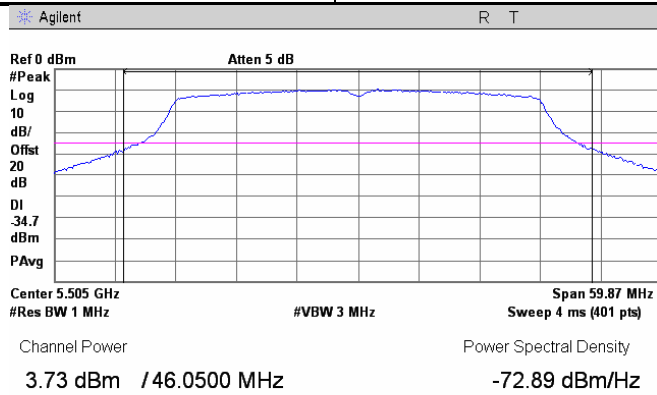


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2</b>	
<b>Test procedure:</b>		<b>Peak output power and peak power spectral density</b>	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

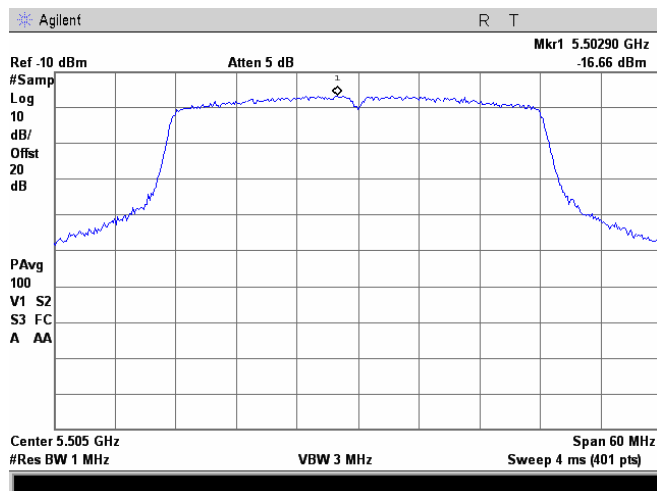
Plot 7.1.5 Peak output power

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 270 Mbps
NOTE	In-Band



Plot 7.1.6 Peak spectral power density

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band



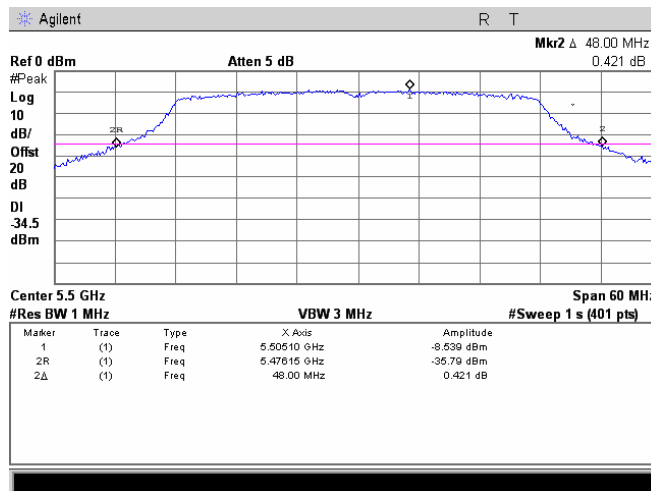


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

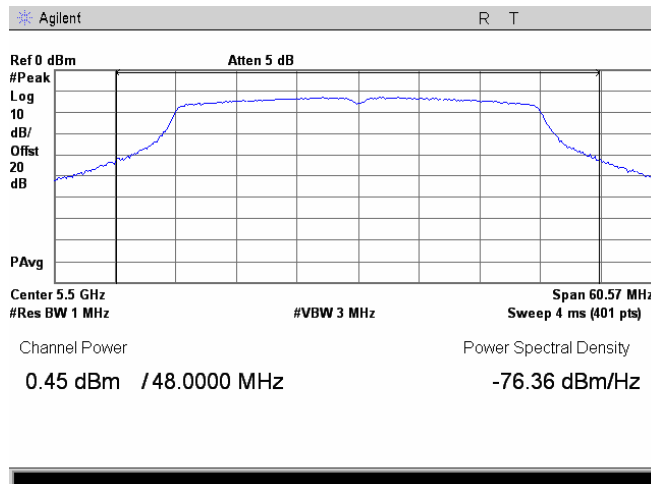
Plot 7.1.7 The 26 dB emission bandwidth

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge



Plot 7.1.8 Peak output power

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge



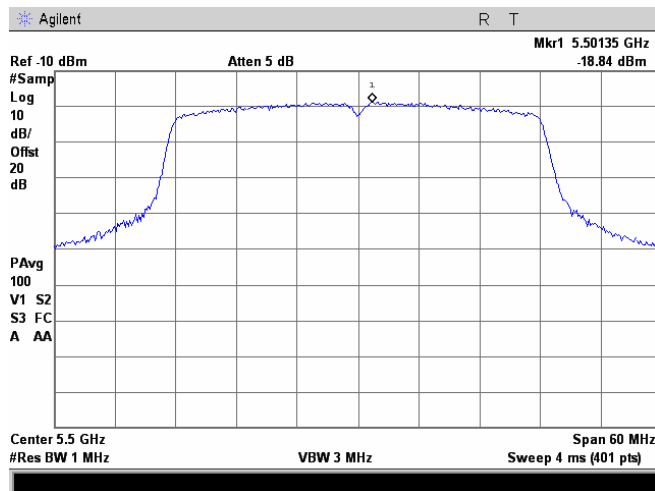


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

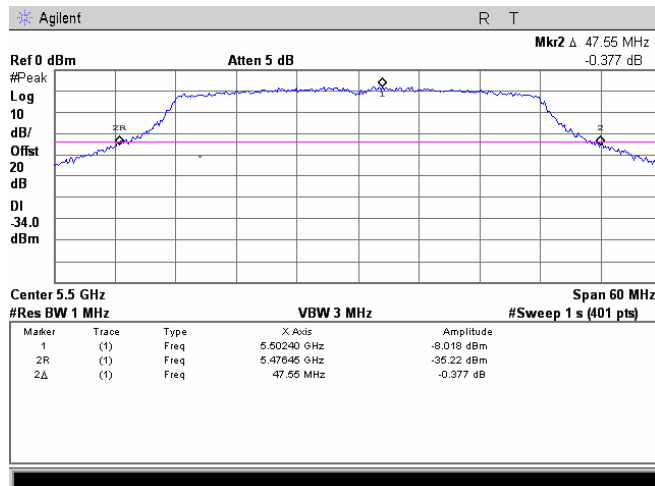
Plot 7.1.9 Peak spectral power density

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge



Plot 7.1.10 The 26 dB emission bandwidth

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



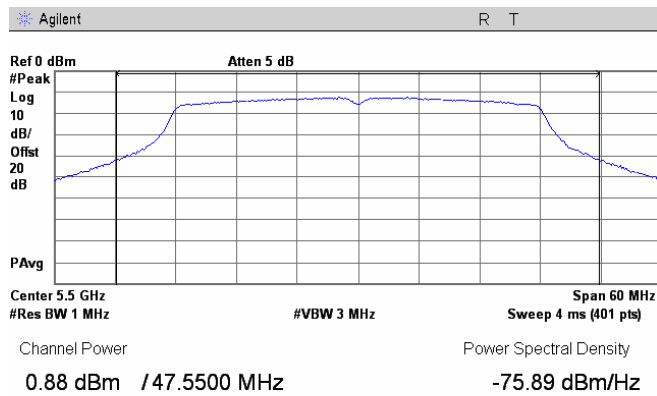


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

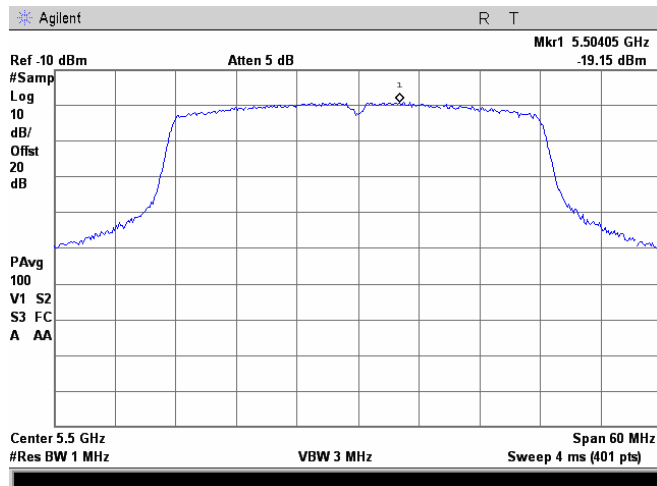
Plot 7.1.11 Peak output power

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



Plot 7.1.12 Peak spectral power density

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge





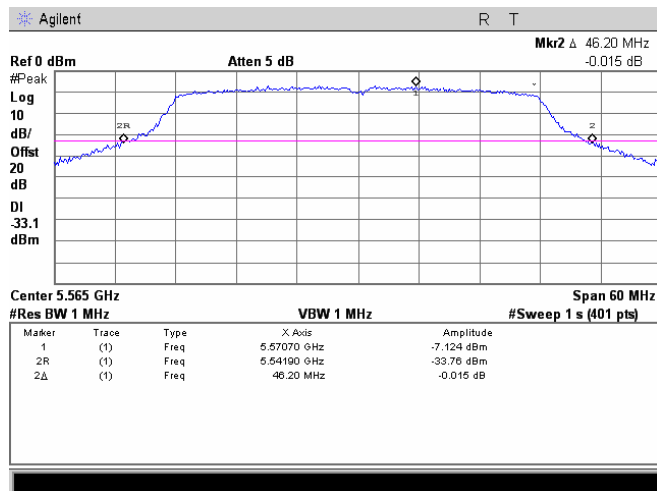


HERMON LABORATORIES

<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

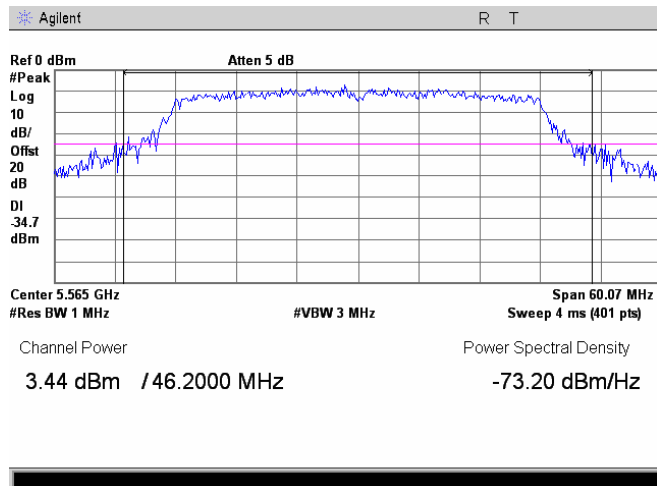
Plot 7.1.13 The 26 dB emission bandwidth

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.14 Peak output power

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



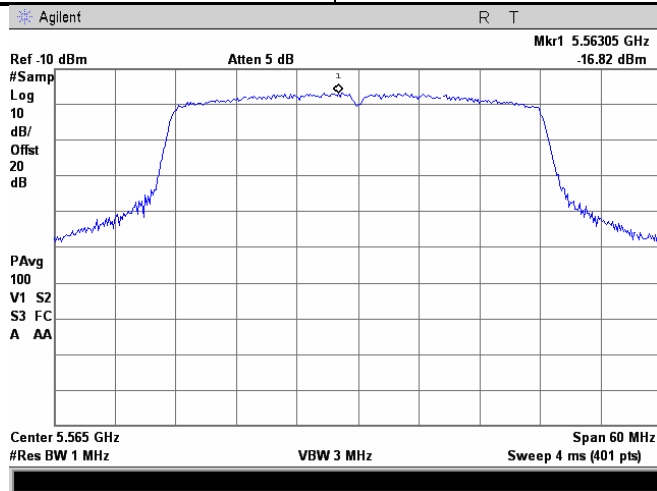


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

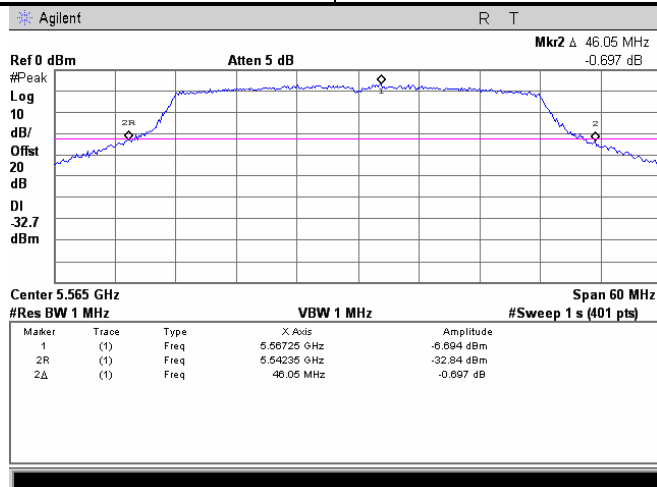
Plot 7.1.15 Peak spectral power density

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.16 The 26 dB emission bandwidth

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 270 Mbps
NOTE	In-Band



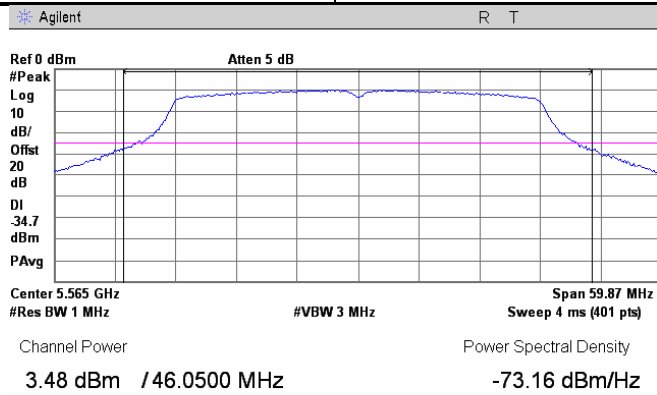


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2</b>	
<b>Test procedure:</b>		<b>Peak output power and peak power spectral density</b>	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

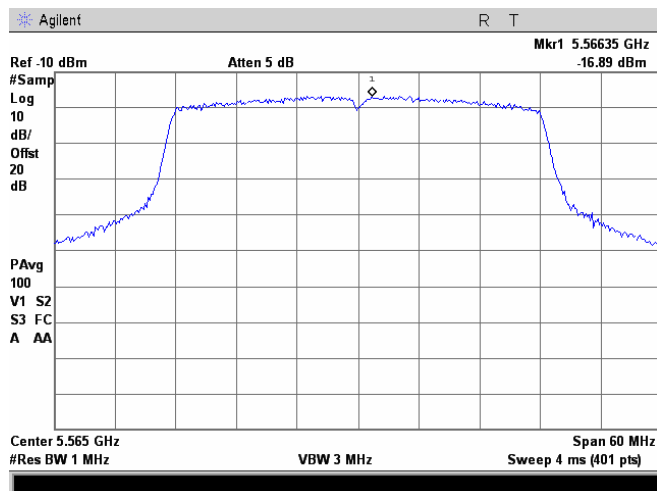
Plot 7.1.17 Peak output power

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 270 Mbps
NOTE	In-Band



Plot 7.1.18 Peak spectral power density

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 270 Mbps
NOTE	In-Band



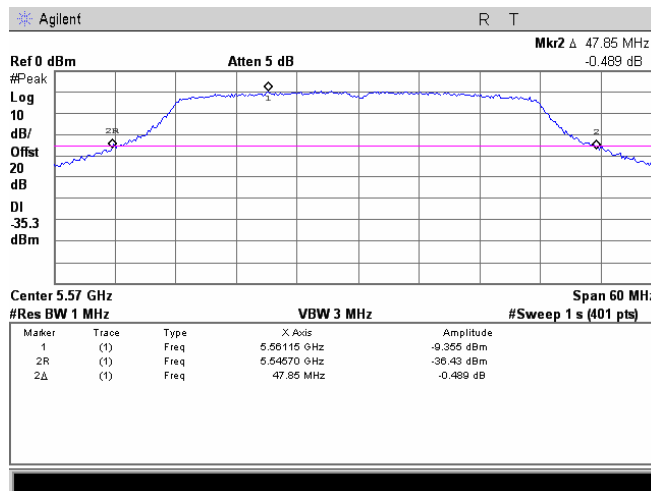


HERMON LABORATORIES

<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

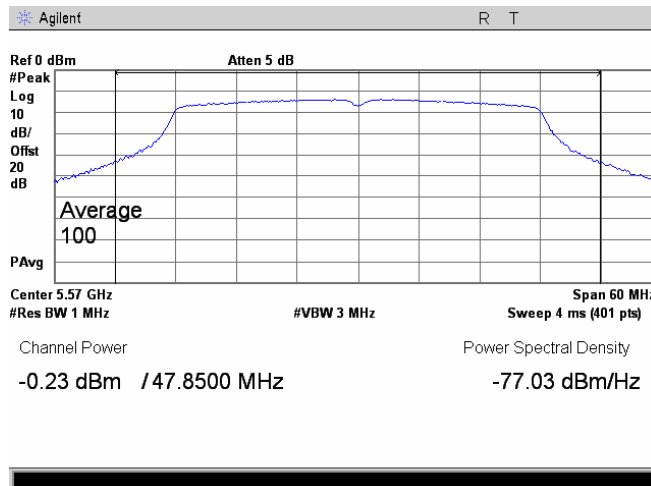
Plot 7.1.19 The 26 dB emission bandwidth

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge



Plot 7.1.20 Peak output power

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge



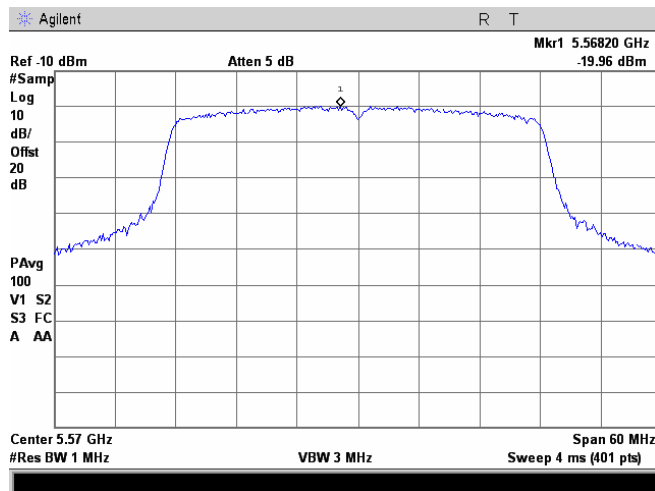


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2</b>	
		<b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

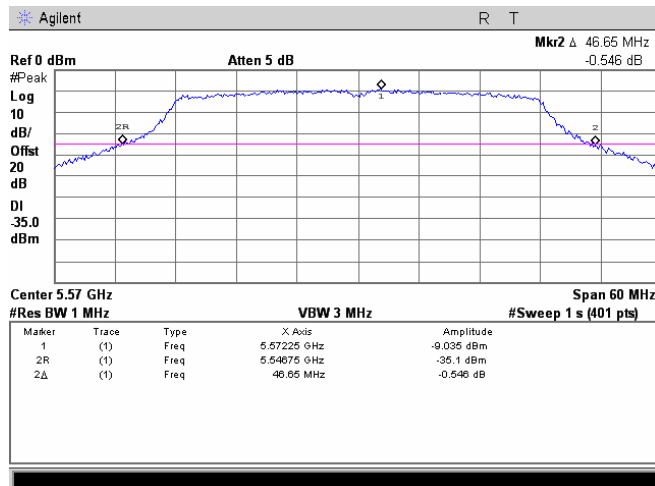
Plot 7.1.21 Peak spectral power density

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge



Plot 7.1.22 The 26 dB emission bandwidth

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



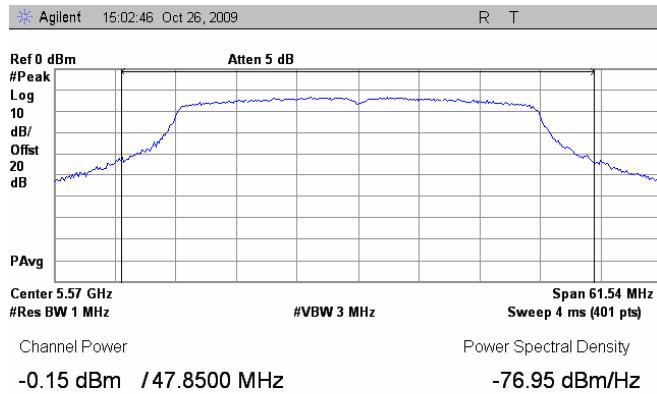


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

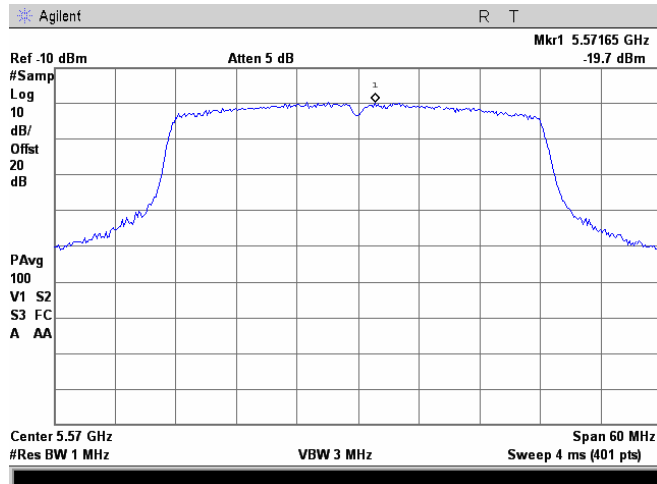
Plot 7.1.23 Peak output power

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



Plot 7.1.24 Peak spectral power density

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



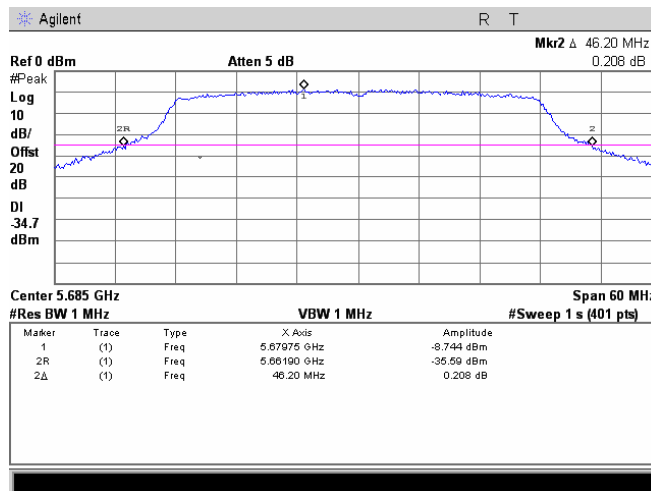


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

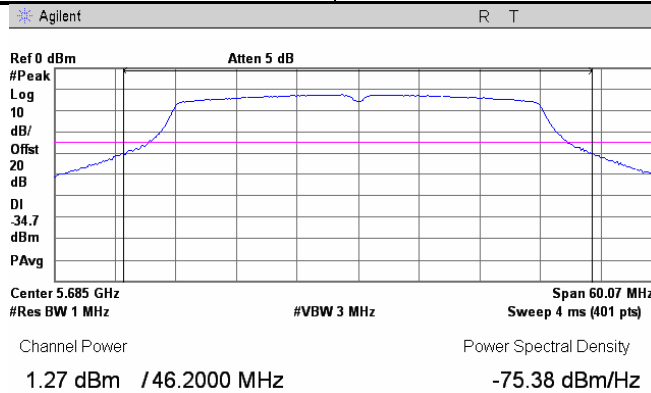
Plot 7.1.25 The 26 dB emission bandwidth

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.26 Peak output power

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



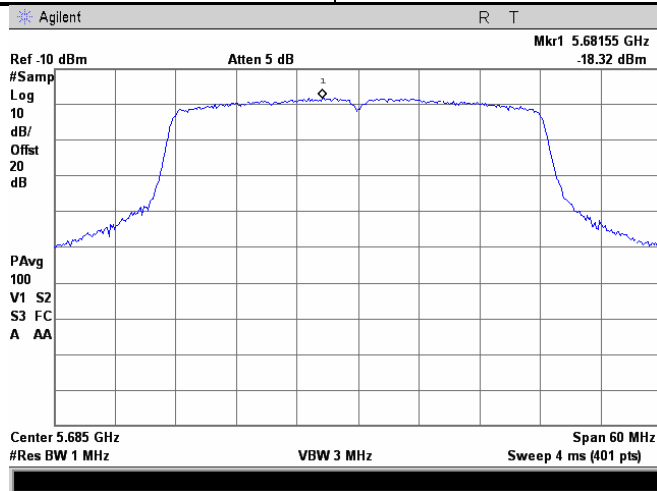


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

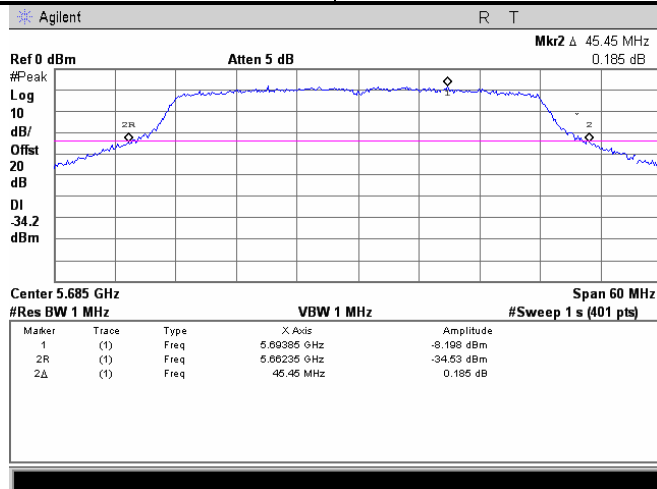
Plot 7.1.27 Peak spectral power density

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.28 The 26 dB emission bandwidth

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 270 Mbps
NOTE	In-Band





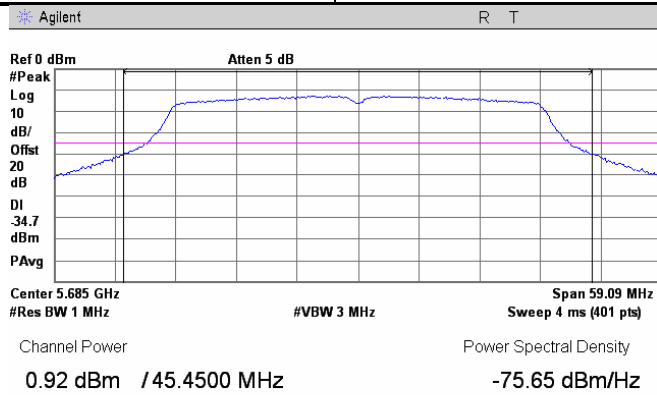


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

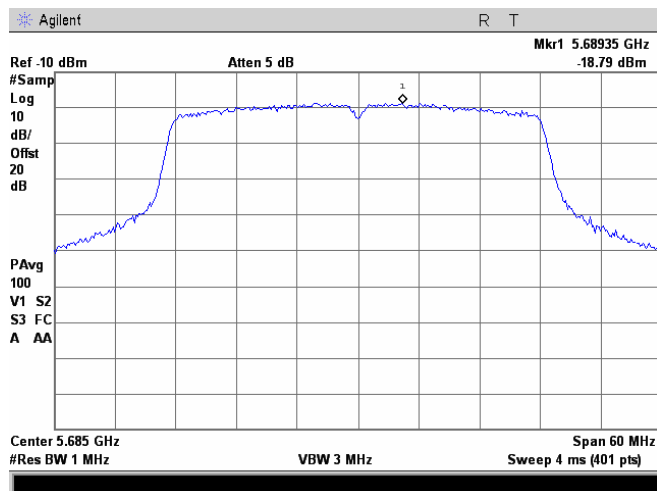
Plot 7.1.29 Peak output power

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 270 Mbps
NOTE	In-Band



Plot 7.1.30 Peak spectral power density

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 270 Mbps
NOTE	In-Band



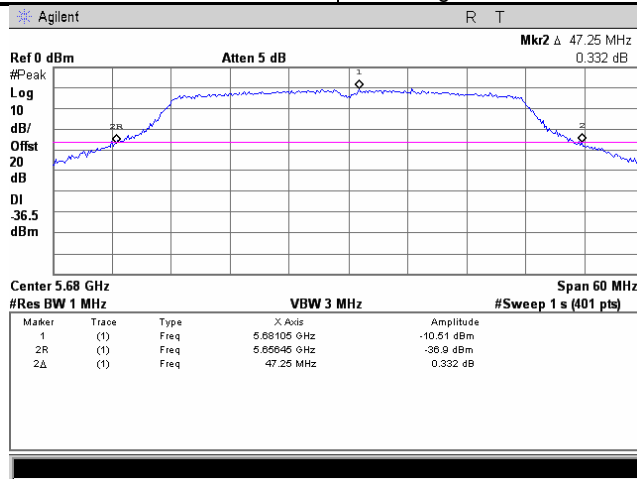


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

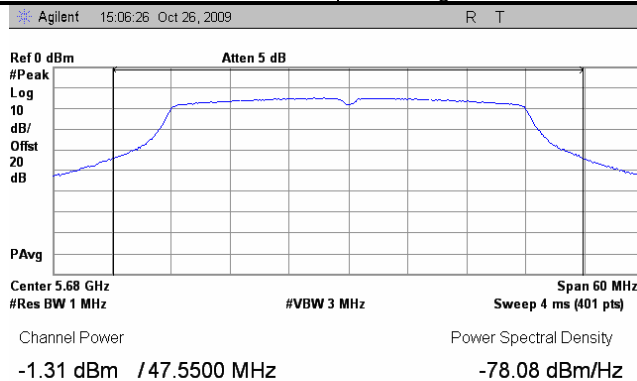
Plot 7.1.31 The 26 dB emission bandwidth

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge



Plot 7.1.32 Peak output power

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge



EBW = 47.25 MHz

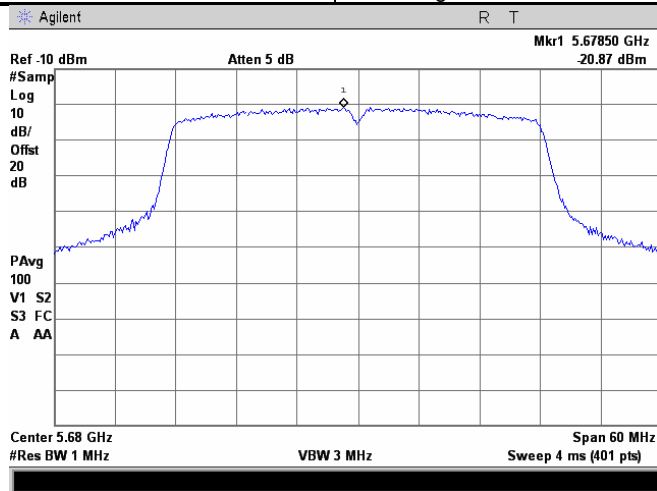


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

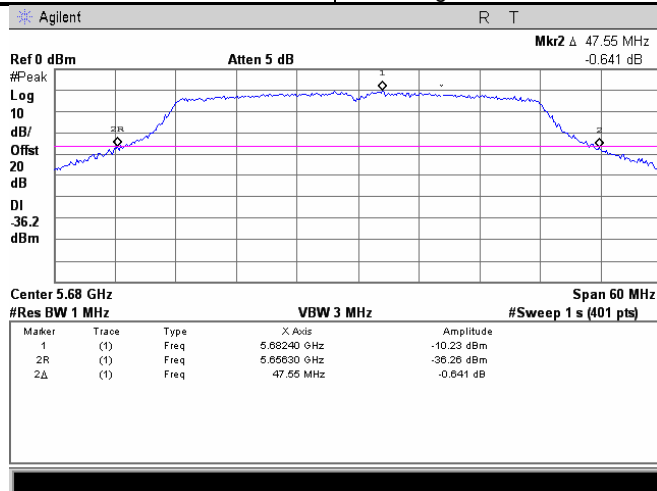
Plot 7.1.33 Peak spectral power density

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge



Plot 7.1.34 The 26 dB emission bandwidth

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



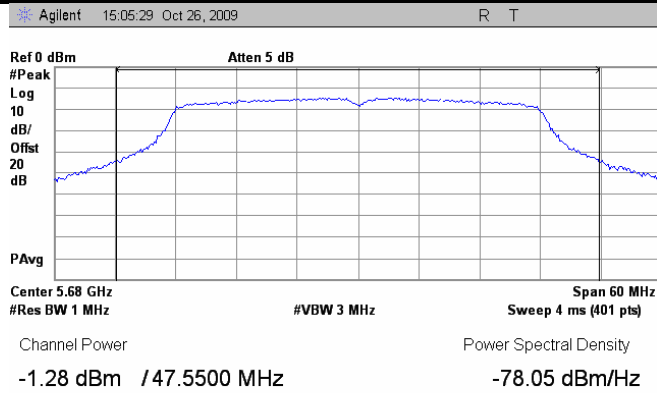


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

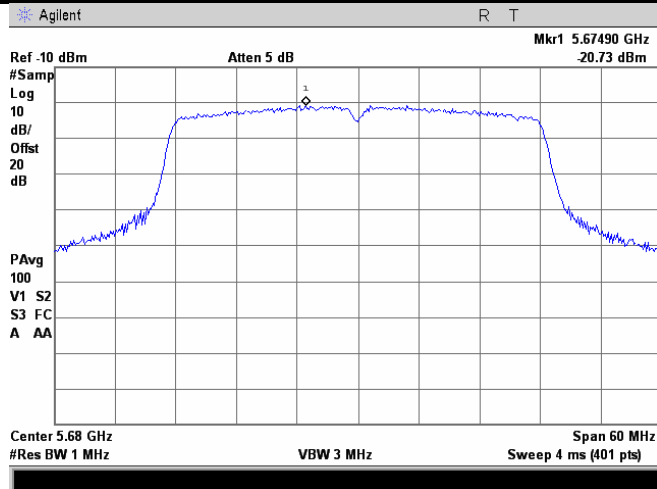
Plot 7.1.35 Peak output power

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



Plot 7.1.36 Peak spectral power density

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



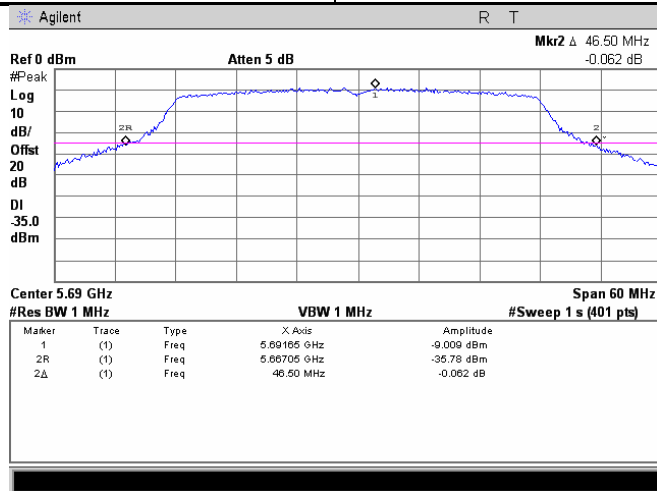


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

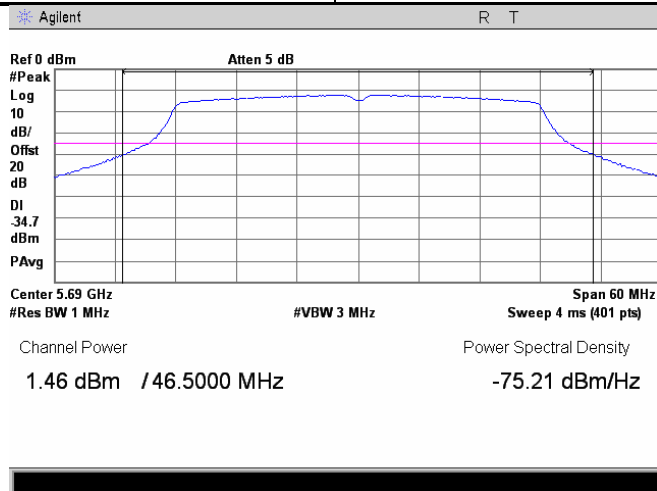
Plot 7.1.37 The 26 dB emission bandwidth

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.38 Peak output power

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



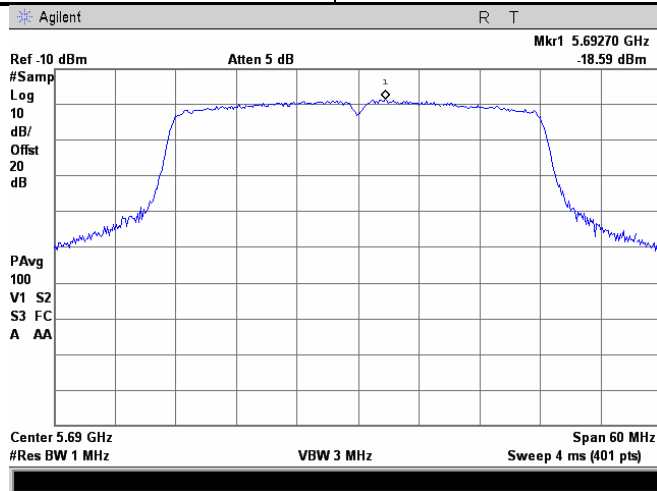


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

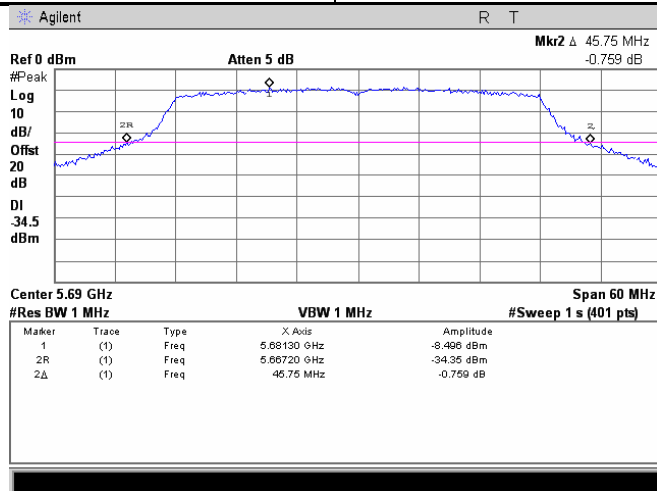
Plot 7.1.39 Peak spectral power density

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.40 The 26 dB emission bandwidth

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 270 Mbps
NOTE	In-Band



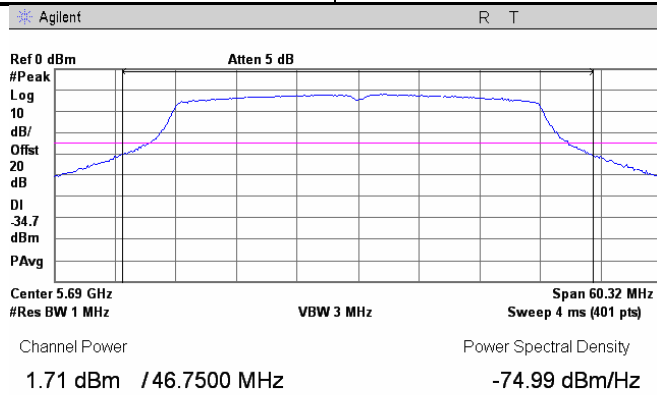


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

Plot 7.1.41 Peak output power

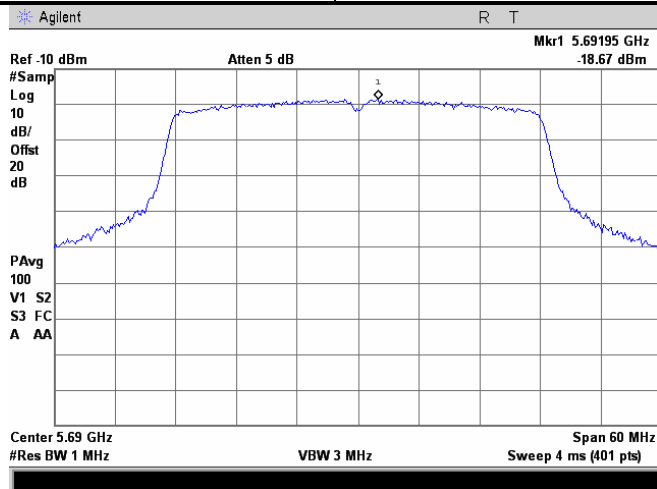
Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 270 Mbps
NOTE	In-Band



EBW 45.75MHz

Plot 7.1.42 Peak spectral power density

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 270 Mbps
NOTE	In-Band



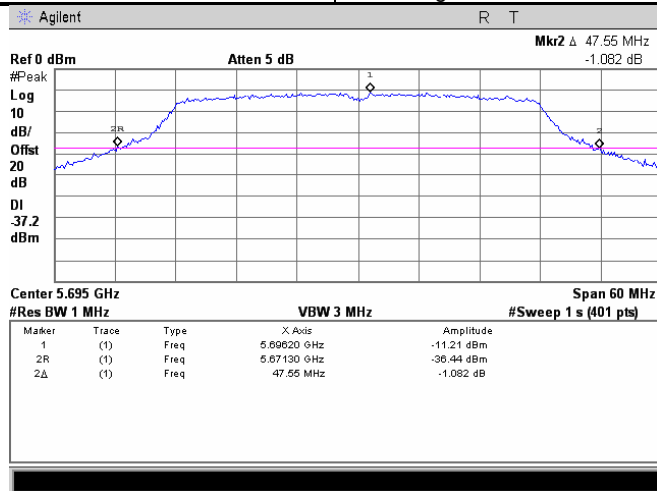


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

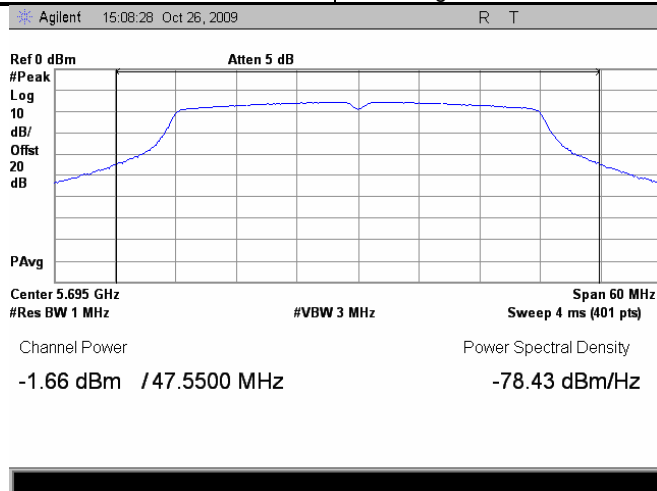
Plot 7.1.43 The 26 dB emission bandwidth

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge



Plot 7.1.44 Peak output power

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge





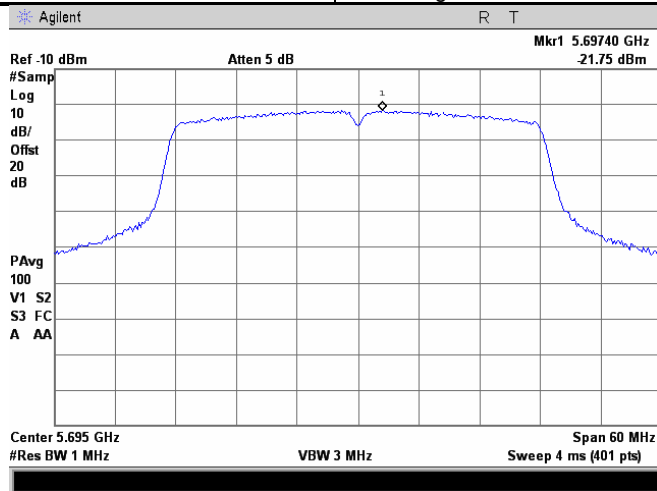


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

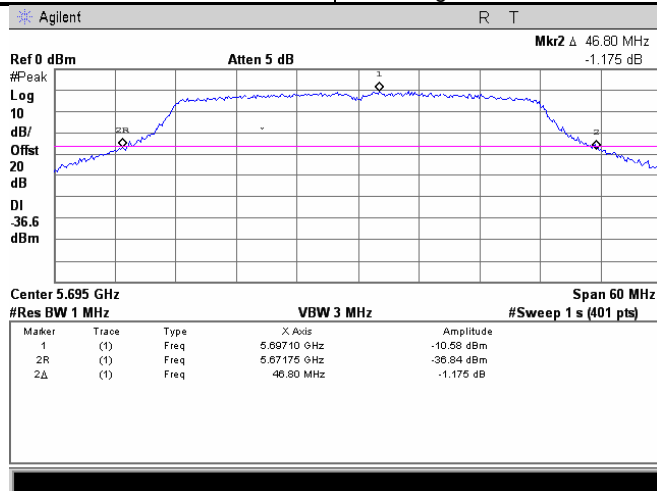
Plot 7.1.45 Peak spectral power density

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge



Plot 7.1.46 The 26 dB emission bandwidth

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



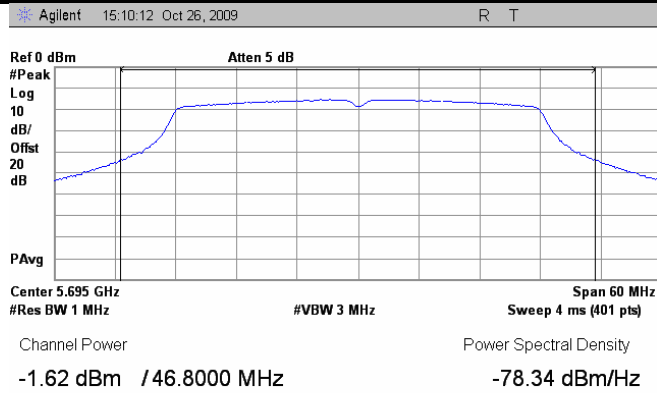


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

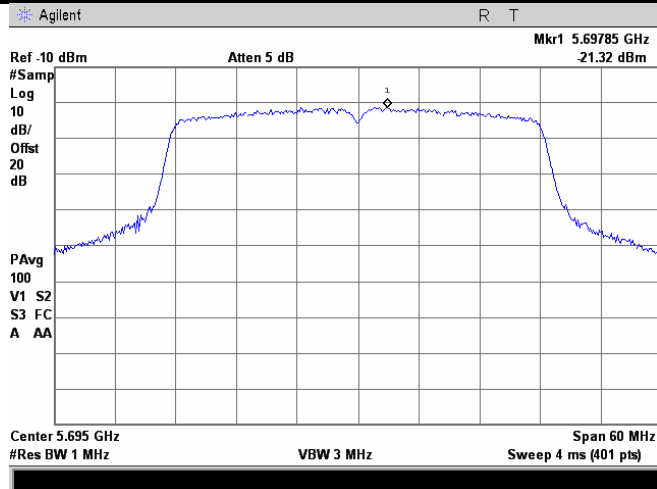
Plot 7.1.47 Peak output power

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



Plot 7.1.48 Peak spectral power density

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge





HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date:</b> 10/29/2009			
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

Table 7.1.4 Conducted output power test results

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 DETECTOR USED: Peak  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz  
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)  
 ANTENNA ASSEMBLY GAIN: 28 dBi  
 EMISSION BANDWIDTH: 40 MHz

Frequency, MHz	26 dB Bandwidth	Bit Rate, MBps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel In-Band</b>								
5505	46.95	27	BPSK	-1.28	1.72	2.00	-0.28	Pass
5505	47.70	270	64QAM	-1.34	1.66	2.00	-0.34	Pass
<b>Low channel</b>								
5500	45.75	27	BPSK	-3.72	-0.72	2.00	-2.72	Pass
5500	46.50	270	64QAM	-3.74	-0.74	2.00	-2.74	Pass
<b>First mid channel In-Band</b>								
5565	46.80	27	BPSK	-2.41	0.59	2.00	-1.41	Pass
5565	46.95	270	64QAM	-2.34	0.66	2.00	-1.34	Pass
<b>First mid channel</b>								
5570	46.50	27	BPSK	-4.09	-1.09	2.00	-3.09	Pass
5570	46.35	270	64QAM	-4.34	-1.34	2.00	-3.34	Pass
<b>Second mid channel (for IC only) In-Band</b>								
5685	47.25	27	BPSK	-3.77	-0.77	2.00	-2.77	Pass
5685	46.35	270	64QAM	-3.54	-0.54	2.00	-2.54	Pass
<b>Second mid channel (for IC only)</b>								
5680	47.25	27	BPSK	-5.87	-2.87	2.00	-4.87	Pass
5680	48.15	270	64QAM	-5.69	-2.69	2.00	-4.69	Pass
<b>High channel In-Band</b>								
5690	46.65	27	BPSK	-3.55	-0.55	2.00	-2.55	Pass
5690	47.25	270	64QAM	-3.25	-0.25	2.00	-2.25	Pass
<b>High channel</b>								
5695	46.80	27	BPSK	-5.69	-2.69	2.00	-4.69	Pass
5695	46.65	270	64QAM	-5.79	-2.79	2.00	-4.79	Pass

\* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

\*\* - Margin = Total output power – specification limit.

Reference numbers of test equipment used

HL2909	HL 2952	HL 3442				
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Full description is given in Appendix A.



HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date:</b> 10/29/2009			
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

**Table 7.1.5 Peak power spectral density test results**

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 DETECTOR USED: Sample  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz  
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)  
 ANTENNA ASSEMBLY GAIN: 28 dBi  
 EMISSION BANDWIDTH: 40 MHz

Frequency, MHz	Bit Rate, MBps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel In-Band</b>							
5505	27	BPSK	-21.20	-18.20	-11.0	-7.20	Pass
5505	270	64QAM	-21.63	-18.63	-11.0	-7.63	Pass
<b>Low channel</b>							
5500	27	BPSK	-23.44	-20.44	-11.0	-9.44	Pass
5500	270	64QAM	-23.01	-20.01	-11.0	-9.01	Pass
<b>First mid channel In-Band</b>							
5565	27	BPSK	-21.65	-18.65	-11.0	-7.65	Pass
5565	270	64QAM	-22.28	-19.28	-11.0	-8.28	Pass
<b>First mid channel</b>							
5570	27	BPSK	-23.08	-20.08	-11.0	-9.08	Pass
5570	270	64QAM	-24.09	-21.09	-11.0	-10.09	Pass
<b>Second mid channel (for IC only) In-Band</b>							
5685	27	BPSK	-23.59	-20.59	-11.0	-9.59	Pass
5685	270	64QAM	-22.93	-19.93	-11.0	-8.93	Pass
<b>Second mid channel (for IC only)</b>							
5680	27	BPSK	-25.24	-22.24	-11.0	-11.24	Pass
5680	270	64QAM	-25.12	-22.12	-11.0	-11.12	Pass
<b>High channel In-Band</b>							
5690	27	BPSK	-23.18	-20.18	-11.0	-9.18	Pass
5690	270	64QAM	-23.30	-20.30	-11.0	-9.30	Pass
<b>High channel</b>							
5695	27	BPSK	-26.09	-23.09	-11.0	-12.09	Pass
5695	270	64QAM	-25.48	-22.48	-11.0	-11.48	Pass

\* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.  
 \*\* - Margin = Total peak power density – specification limit.

**Reference numbers of test equipment used**

HL2909	HL 2952	HL 3442				
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Full description is given in Appendix A.

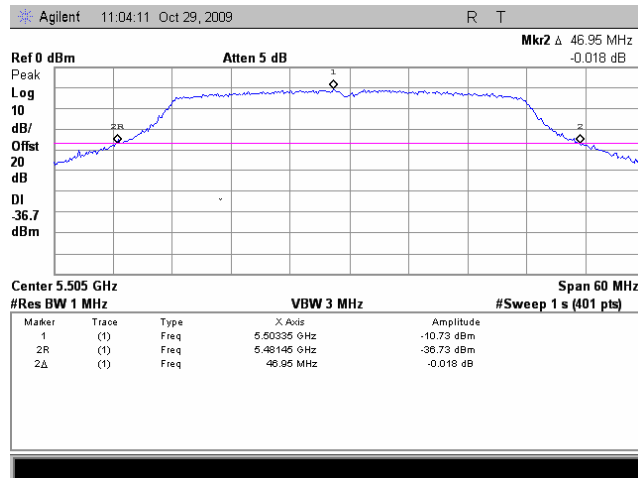


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

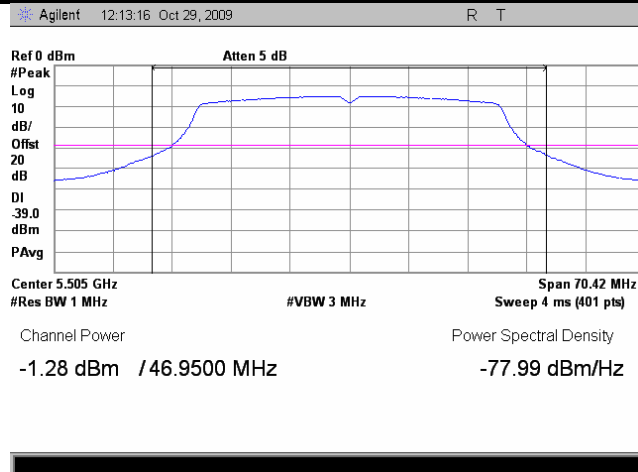
Plot 7.1.49 The 26 dB emission bandwidth

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.50 Peak output power

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



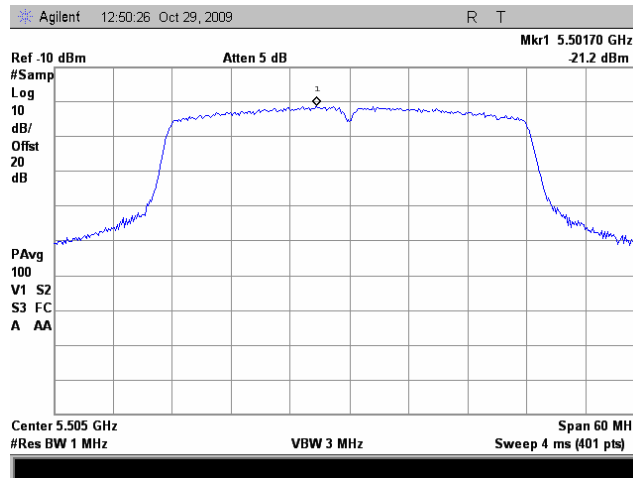


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

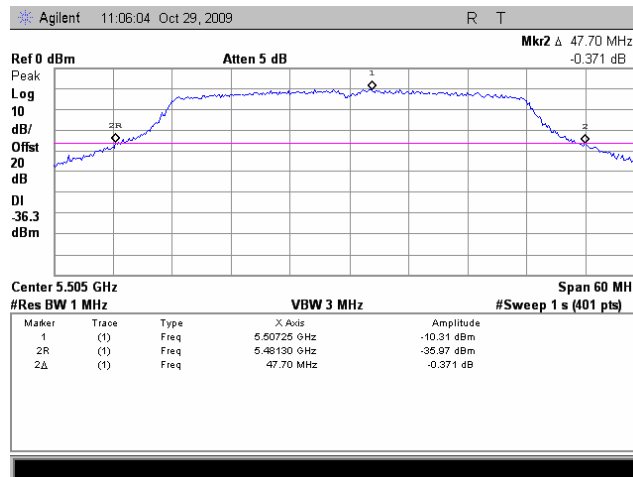
Plot 7.1.51 Peak spectral power density

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.52 The 26 dB emission bandwidth

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM 270 Mbps
NOTE	In-Band



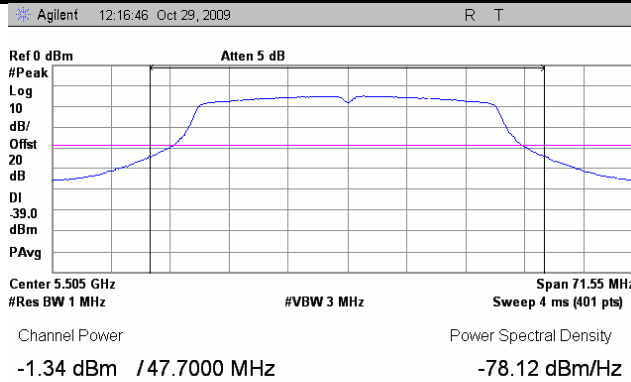


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/29/2009			
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

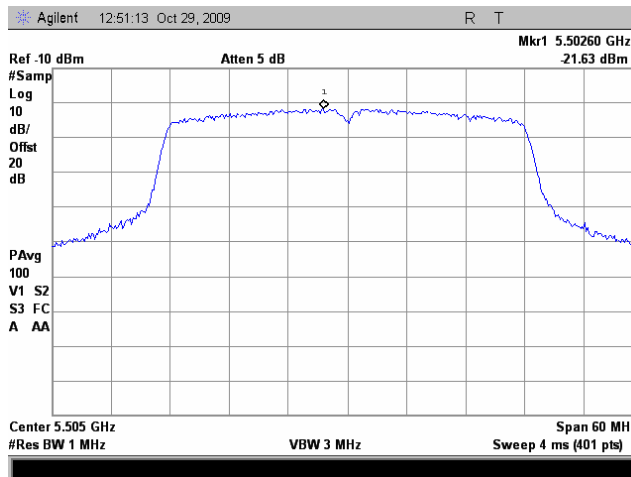
Plot 7.1.53 Peak output power

<b>Frequency:</b>	5505 MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	64QAM 270 Mbps
<b>NOTE</b>	In-Band



Plot 7.1.54 Peak spectral power density

<b>Frequency:</b>	5505 MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	64QAM 270 Mbps
<b>NOTE</b>	In-Band



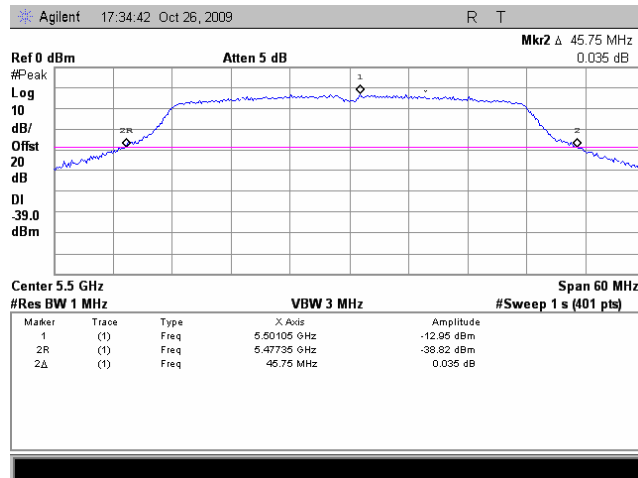


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/29/2009			
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

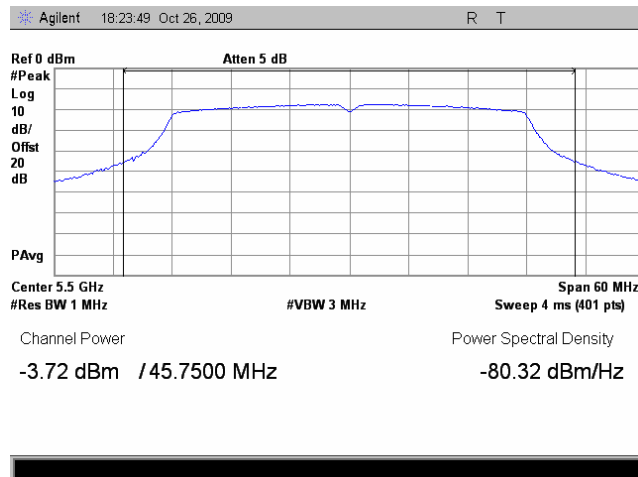
Plot 7.1.55 The 26 dB emission bandwidth

<b>Frequency:</b>	5500 MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	BPSK, 27 Mbps
<b>NOTE</b>	Band Edge



Plot 7.1.56 Peak output power

<b>Frequency:</b>	5500 MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	BPSK, 27 Mbps
<b>NOTE</b>	Band Edge





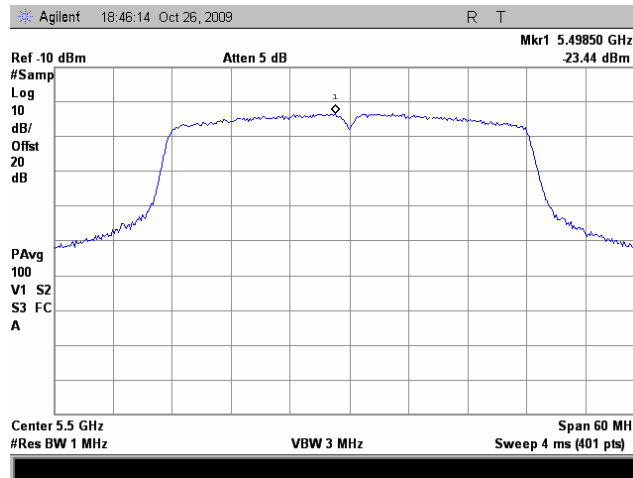


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

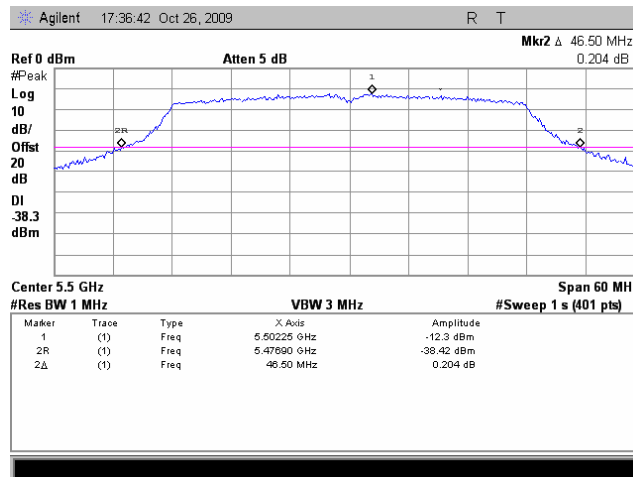
Plot 7.1.57 Peak spectral power density

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.58 The 26 dB emission bandwidth

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



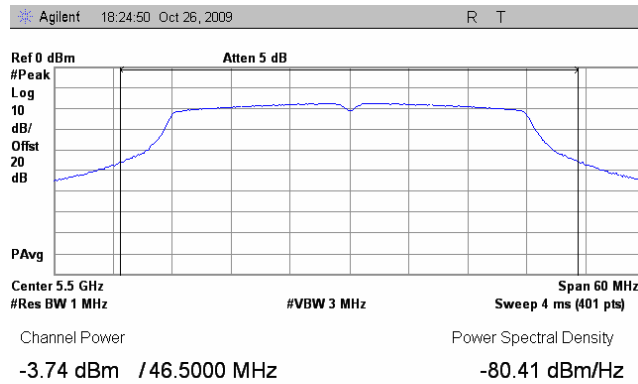


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

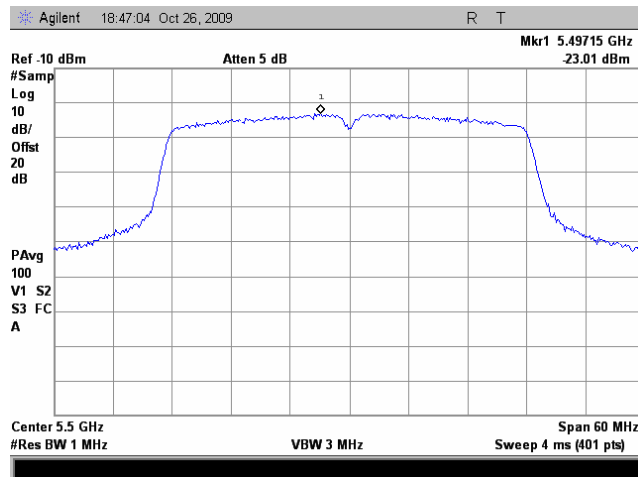
Plot 7.1.59 Peak output power

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



Plot 7.1.60 Peak spectral power density

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



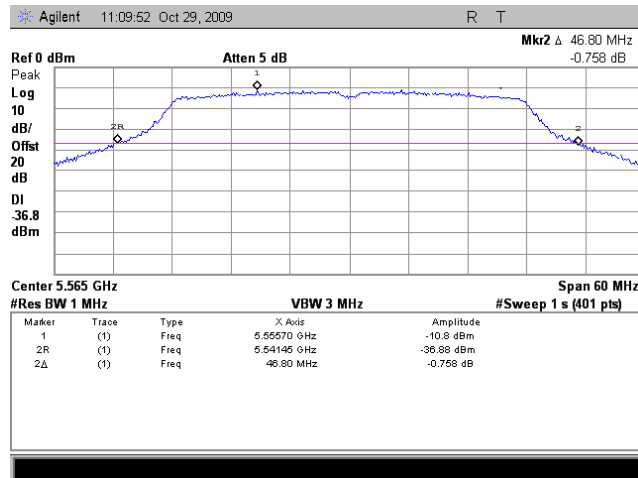


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

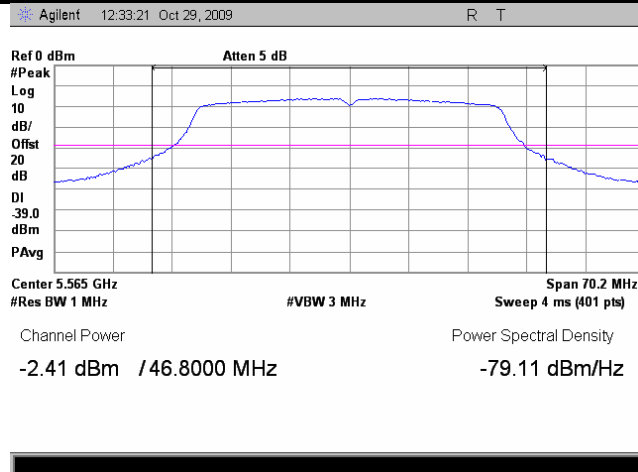
Plot 7.1.61 The 26 dB emission bandwidth

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.62 Peak output power

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



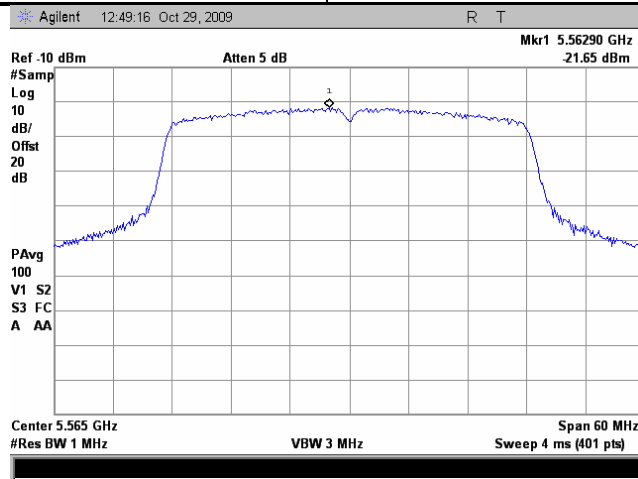


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

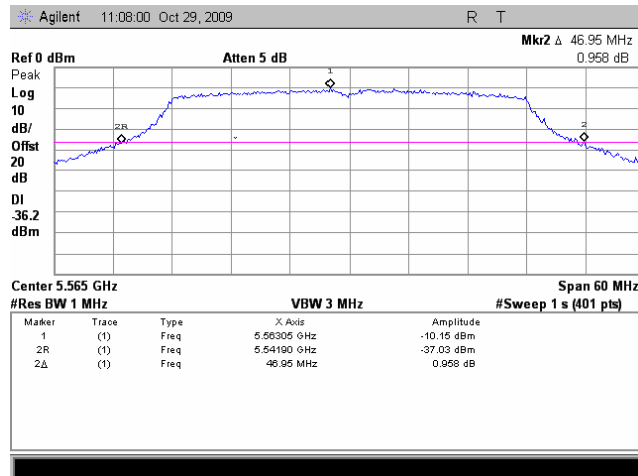
Plot 7.1.63 Peak spectral power density

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.64 The 26 dB emission bandwidth

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM 270 Mbps
NOTE	In-Band





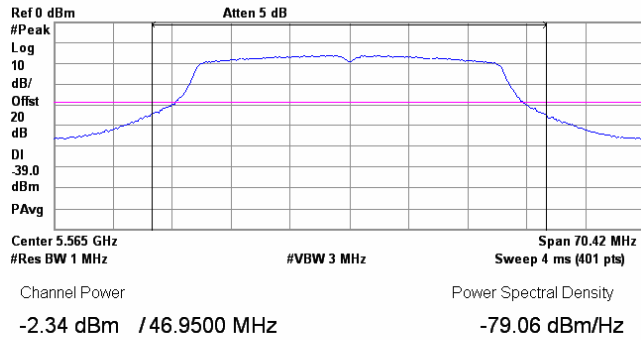
HERMON LABORATORIES

<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

Plot 7.1.65 Peak output power

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM 270 Mbps
NOTE	In-Band

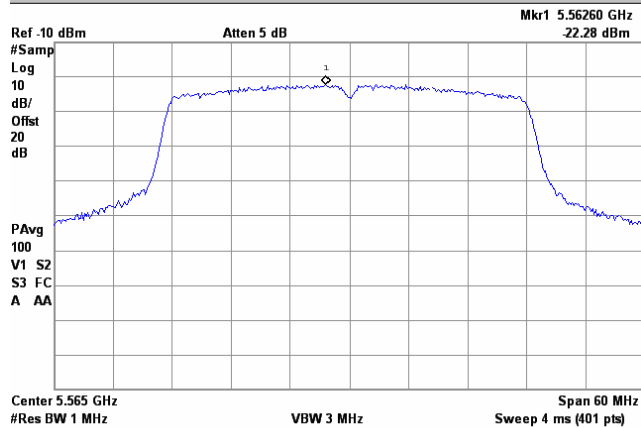
Agilent 12:32:17 Oct 29, 2009 R T



Plot 7.1.66 Peak spectral power density

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM 270 Mbps
NOTE	In-Band

Agilent 12:48:00 Oct 29, 2009 R T



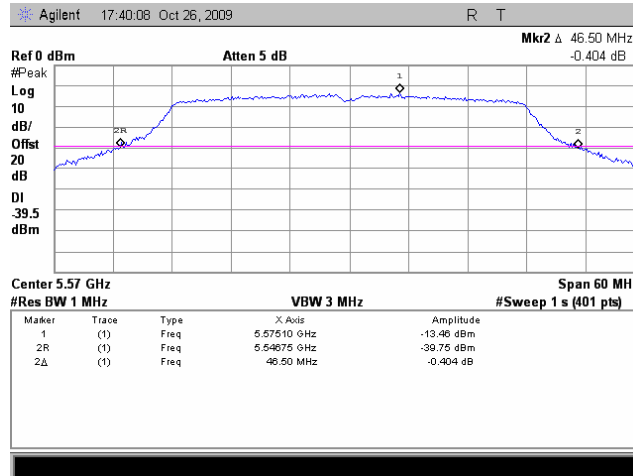


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/29/2009			
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

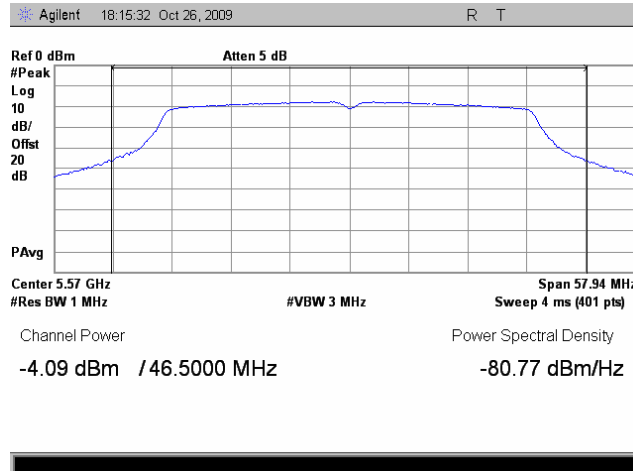
Plot 7.1.67 The 26 dB emission bandwidth

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.68 Peak output power

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



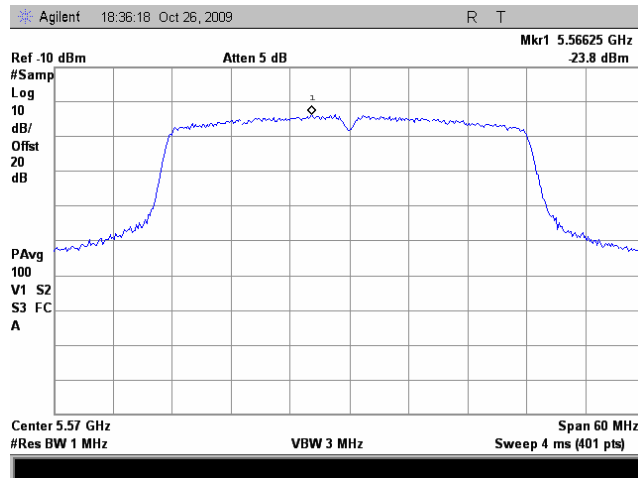


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/29/2009			
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

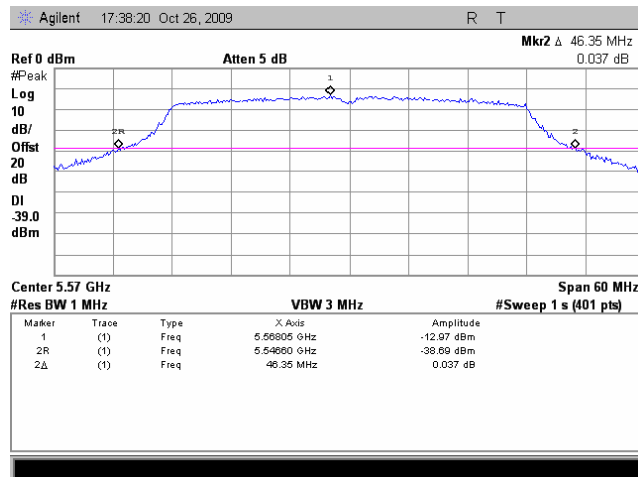
Plot 7.1.69 Peak spectral power density

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.70 The 26 dB emission bandwidth

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



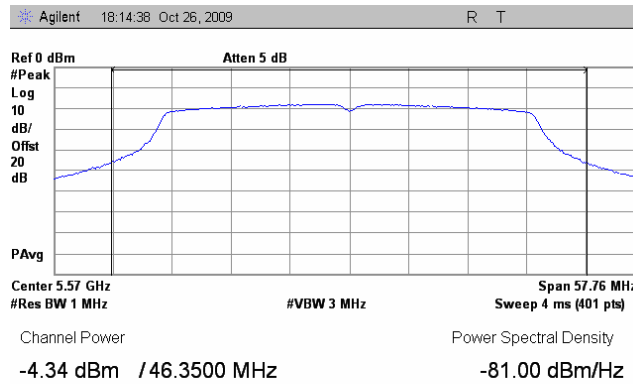


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

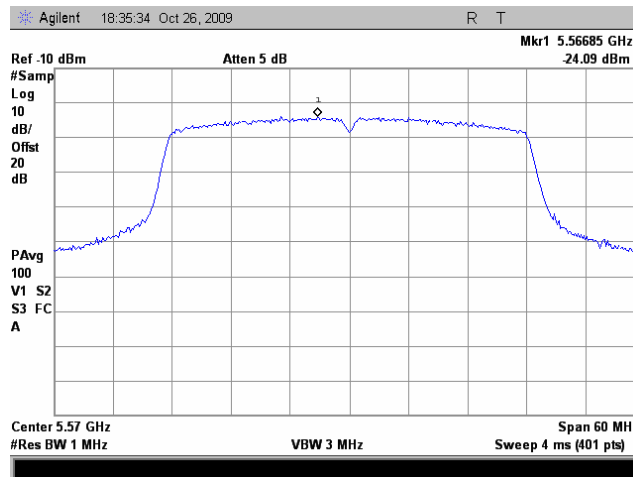
Plot 7.1.71 Peak output power

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



Plot 7.1.72 Peak spectral power density

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge





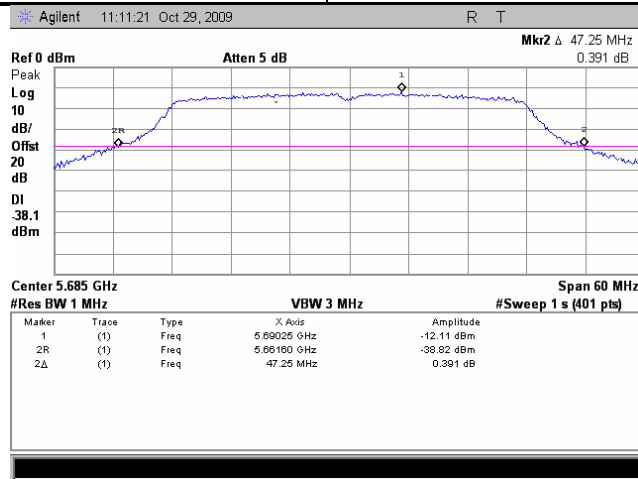


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

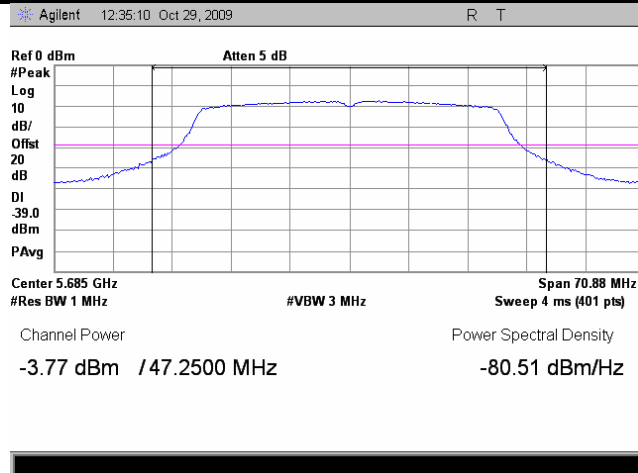
Plot 7.1.73 The 26 dB emission bandwidth

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.74 Peak output power

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



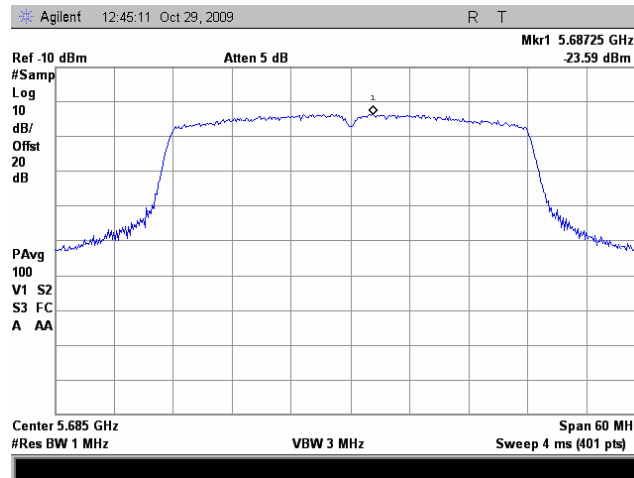


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

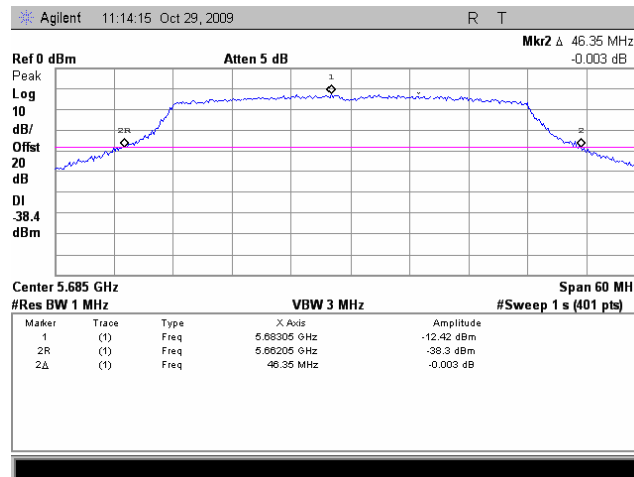
Plot 7.1.75 Peak spectral power density

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.76 The 26 dB emission bandwidth

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM 270 Mbps
NOTE	In-Band



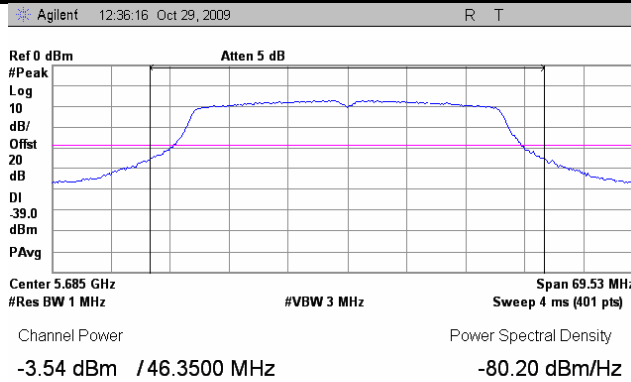


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

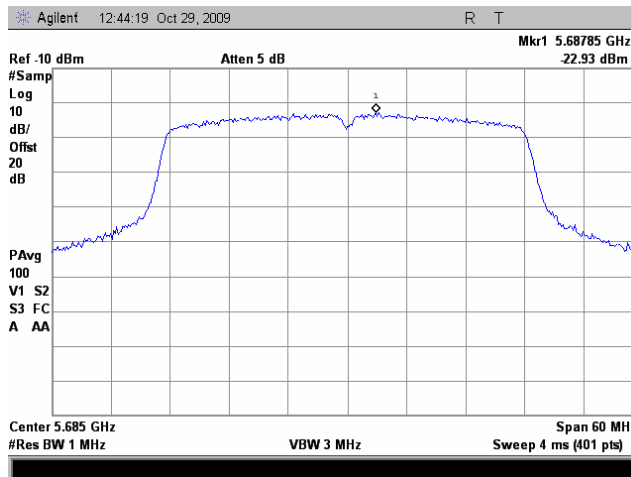
**Plot 7.1.77 Peak output power**

<b>Frequency:</b>	5685 MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	64QAM 270 Mbps
<b>NOTE</b>	In-Band



**Plot 7.1.78 Peak spectral power density**

<b>Frequency:</b>	5685 MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	64QAM 270 Mbps
<b>NOTE</b>	In-Band



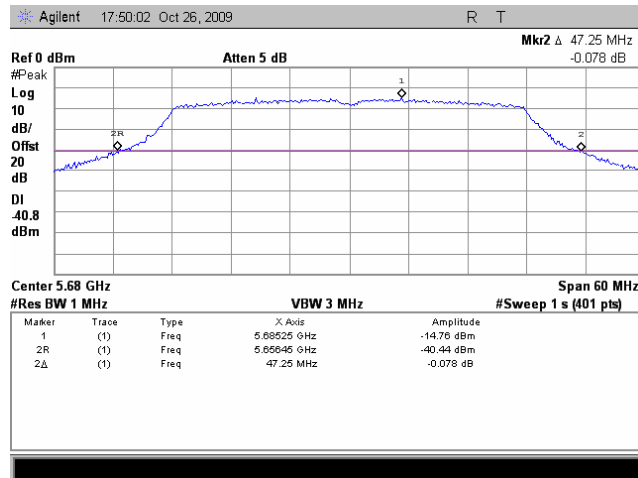


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

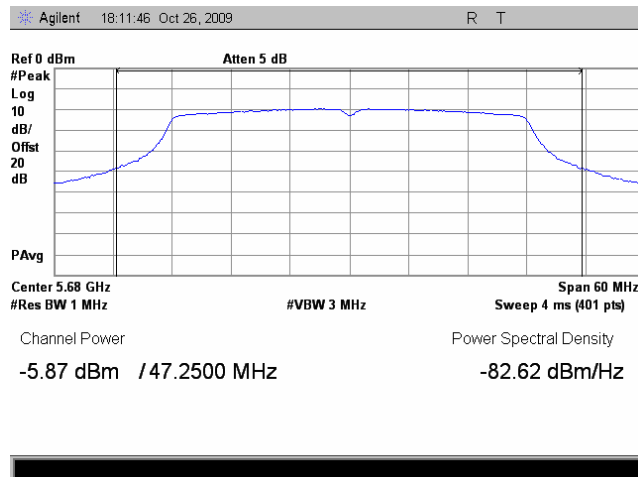
Plot 7.1.79 The 26 dB emission bandwidth

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.80 Peak output power

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



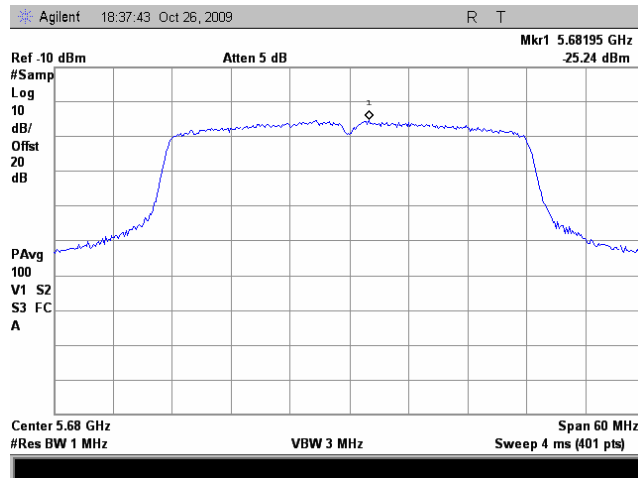


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

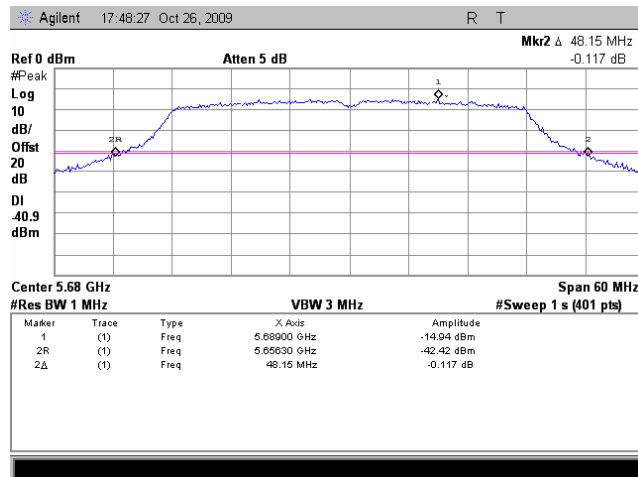
Plot 7.1.81 Peak spectral power density

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.82 The 26 dB emission bandwidth

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



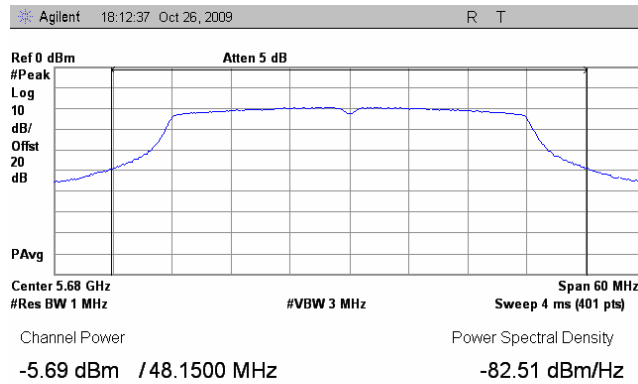


HERMON LABORATORIES

<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

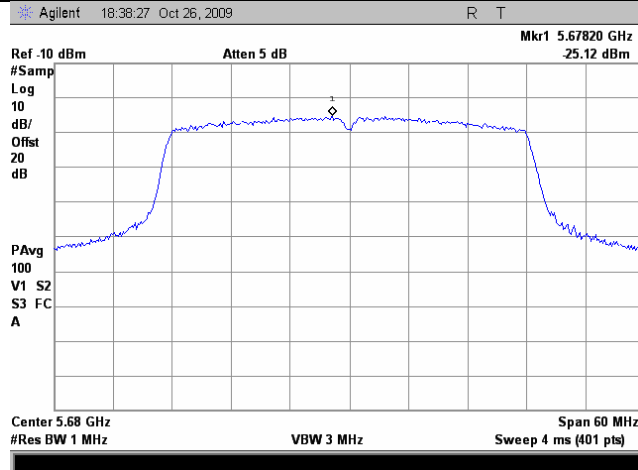
Plot 7.1.83 Peak output power

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



Plot 7.1.84 Peak spectral power density

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



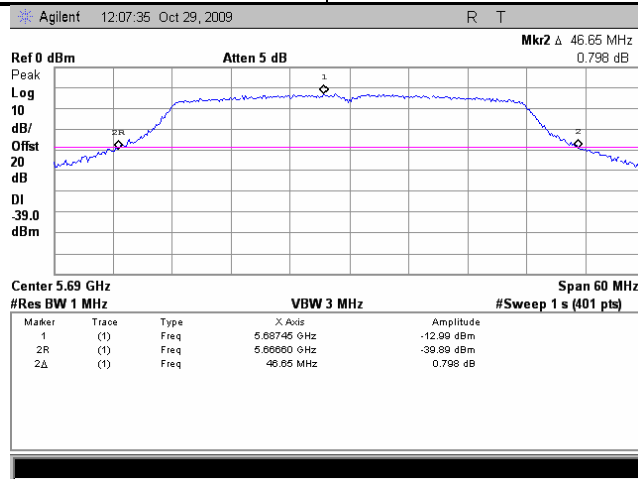


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/29/2009	<b>Relative Humidity:</b>	39 %
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Power Supply:</b>	120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

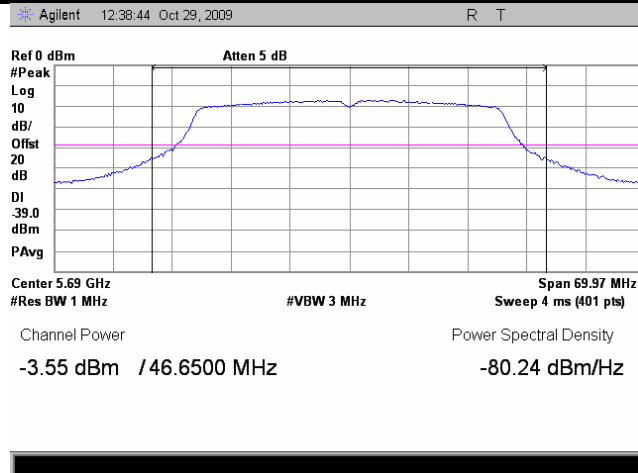
Plot 7.1.85 The 26 dB emission bandwidth

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.86 Peak output power

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



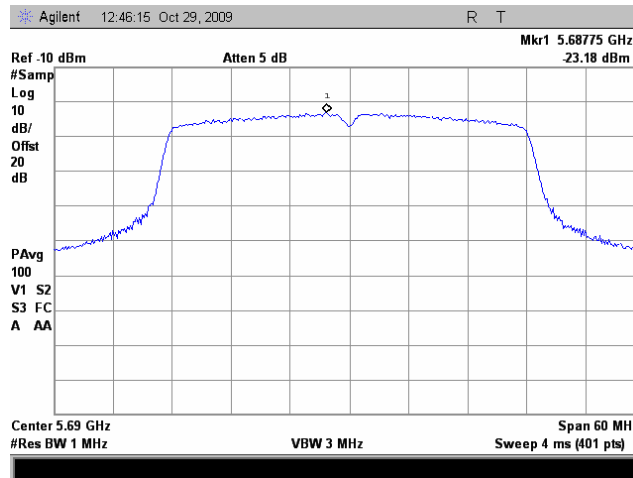


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

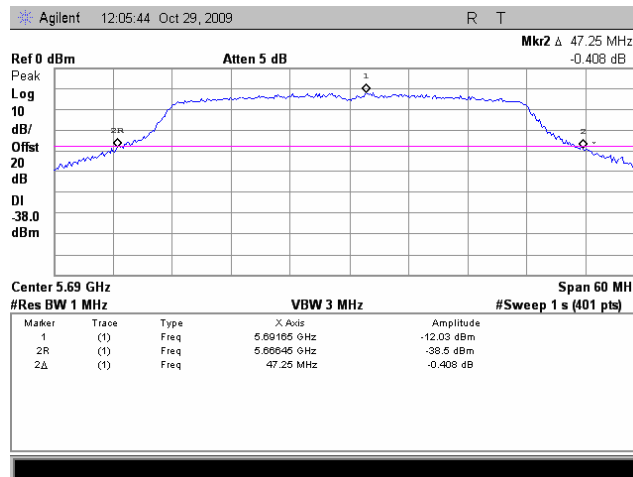
Plot 7.1.87 Peak spectral power density

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.88 The 26 dB emission bandwidth

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM 270 Mbps
NOTE	In-Band







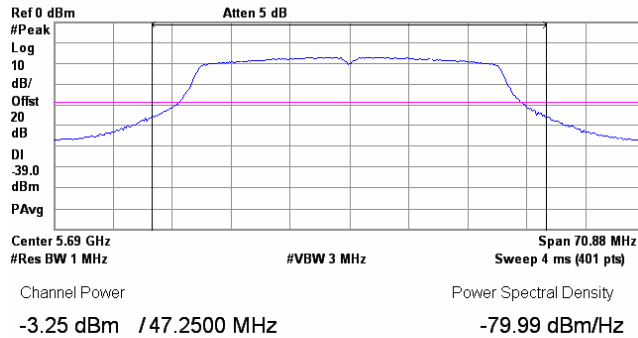
HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

Plot 7.1.89 Peak output power

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM 270 Mbps
NOTE	In-Band

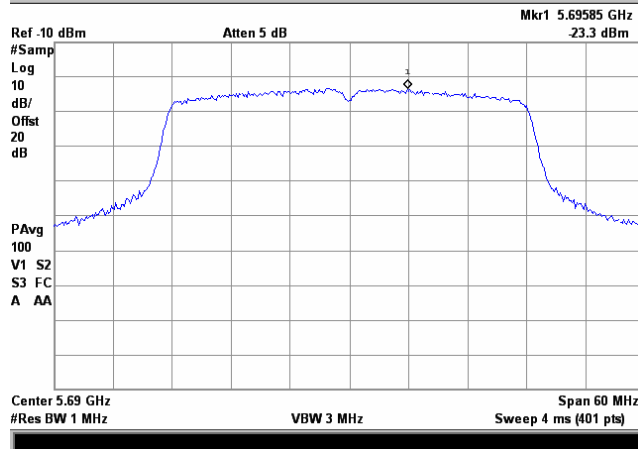
Agilent 12:37:53 Oct 29, 2009 R T



Plot 7.1.90 Peak spectral power density

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM 270 Mbps
NOTE	In-Band

Agilent 12:47:01 Oct 29, 2009 R T



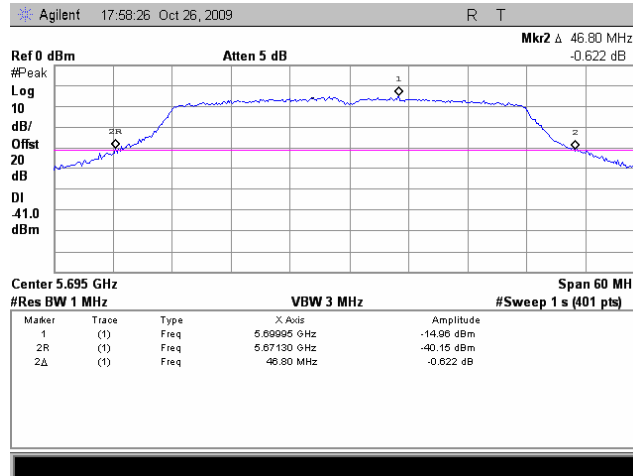


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/29/2009			
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

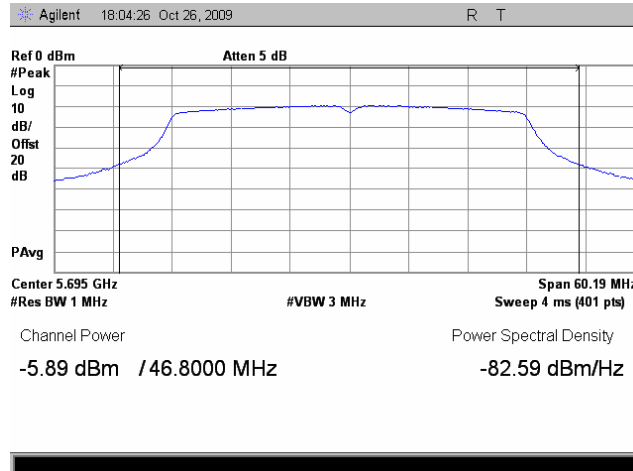
Plot 7.1.91 The 26 dB emission bandwidth

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.92 Peak output power

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



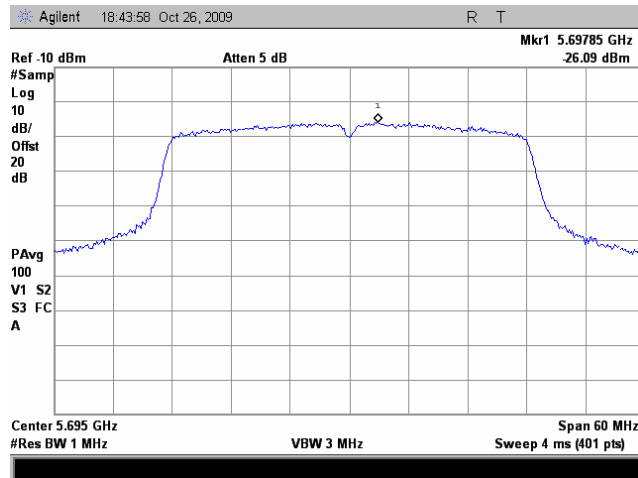


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/29/2009			
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

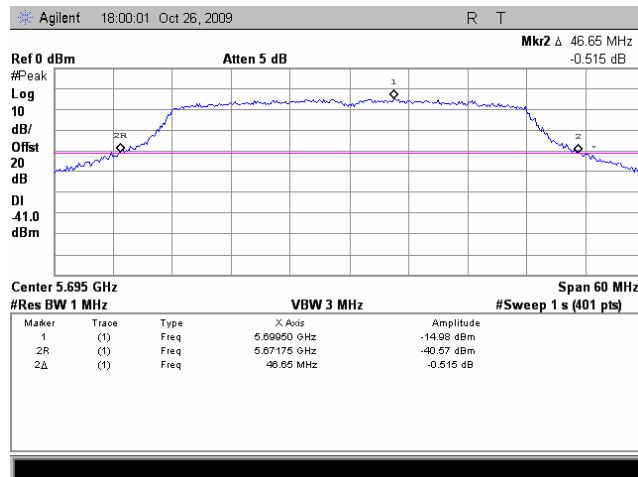
Plot 7.1.93 Peak spectral power density

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.94 The 26 dB emission bandwidth

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge





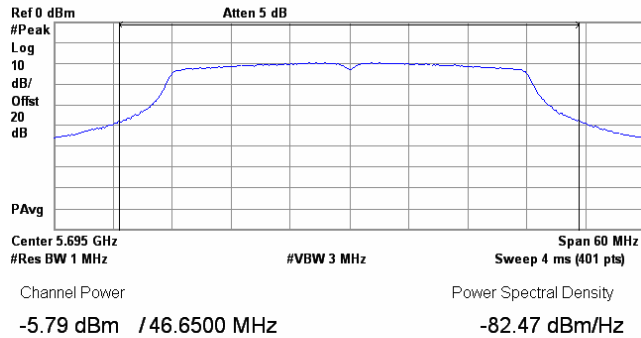
HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/29/2009		
<b>Temperature:</b> 24 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 39 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

Plot 7.1.95 Peak output power

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge

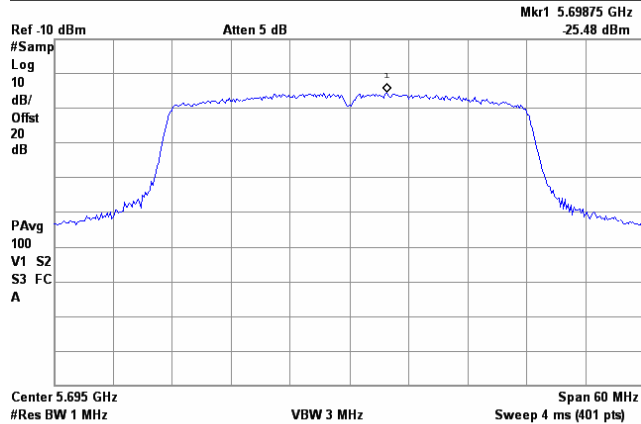
Agilent 18:03:13 Oct 26, 2009 R T



Plot 7.1.96 Peak spectral power density

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge

Agilent 18:43:07 Oct 26, 2009 R T





<b>Test specification:</b>	<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

**Table 7.1.6 Conducted output power test results**

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 DETECTOR USED: Peak  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz  
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)  
 ANTENNA ASSEMBLY GAIN: 6 dBi  
 EMISSION BANDWIDTH: 40 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, MBps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel In-Band</b>								
5505	47.40	27	BPSK	19.28	22.28	24.0	-1.72	Pass
5505	48.45	270	64QAM	19.73	22.73	24.0	-1.27	Pass
<b>Low channel</b>								
5500	46.05	27	BPSK	17.08	20.08	24.0	-3.92	Pass
5500	46.95	270	64QAM	17.76	20.76	24.0	-3.24	Pass
<b>First mid channel In-Band</b>								
5565	47.10	27	BPSK	20.28	23.28	24.0	-0.72	Pass
5565	46.50	270	64QAM	20.06	23.06	24.0	-0.94	Pass
<b>First mid channel</b>								
5570	47.25	27	BPSK	16.68	19.68	24.0	-4.32	Pass
5570	47.10	270	64QAM	16.75	19.75	24.0	-4.25	Pass
<b>Second mid channel (for IC only) In-Band</b>								
5685	46.80	27	BPSK	20.20	23.20	24.0	-0.80	Pass
5685	47.10	270	64QAM	20.55	23.55	24.0	-0.45	Pass
<b>Second mid channel (for IC only)</b>								
5680	46.20	27	BPSK	16.61	19.61	24.0	-4.39	Pass
5680	47.25	270	64QAM	16.47	19.47	24.0	-4.53	Pass
<b>High channel In-Band</b>								
5690	48.00	27	BPSK	20.74	23.74	24.0	-0.26	Pass
5690	46.65	270	64QAM	20.15	23.15	24.0	-0.85	Pass
<b>High channel</b>								
5695	47.10	27	BPSK	16.03	19.03	24.0	-4.97	Pass
5695	46.50	270	64QAM	16.36	19.36	24.0	-4.64	Pass

\* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

\*\* - Margin = Total output power – specification limit.



<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

**Table 7.1.7 Conducted output power test results**

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 DETECTOR USED: Peak  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz  
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)  
 ANTENNA ASSEMBLY GAIN: 6 dBi  
 EMISSION BANDWIDTH: 20 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, MBps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel</b>								
5490	23.550	13	BPSK	19.09	22.09	24.0	-1.91	Pass
5490	24.075	130	64QAM	18.89	21.89	24.0	-2.11	Pass
<b>First mid channel</b>								
5580	24.075	13	BPSK	19.39	22.39	24.0	-1.61	Pass
5580	23.625	130	64QAM	18.96	21.96	24.0	-2.04	Pass
<b>Second mid channel (for IC only)</b>								
5670	23.400	13	BPSK	19.64	22.64	24.0	-1.36	Pass
5670	23.625	130	64QAM	20.59	23.59	24.0	-0.41	Pass
<b>High channel</b>								
5705	23.400	13	BPSK	19.70	22.70	24.0	-1.30	Pass
5705	23.175	130	64QAM	19.36	22.36	24.0	-1.64	Pass

\* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

\*\* - Margin = Total output power – specification limit.



<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

**Table 7.1.8 Conducted output power test results**

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 DETECTOR USED: Peak  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz  
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)  
 ANTENNA ASSEMBLY GAIN: 6 dBi  
 EMISSION BANDWIDTH: 10 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, MBps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel</b>								
5485	13.000	6.5	BPSK	18.53	21.53	22.14	-0.61	Pass
5485	12.050	65	64QAM	18.20	21.20	21.81	-0.61	Pass
<b>First mid channel</b>								
5585	13.150	6.5	BPSK	17.94	20.94	22.19	-1.25	Pass
5585	12.500	65	64QAM	17.55	20.55	21.97	-1.42	Pass
<b>Second mid channel (for IC only)</b>								
5665	13.660	6.5	BPSK	18.98	21.98	22.35	-0.37	Pass
5665	12.750	65	64QAM	18.05	21.05	22.05	-1.00	Pass
<b>High channel</b>								
5710	13.000	6.5	BPSK	17.57	20.57	22.14	-1.57	Pass
5710	12.750	65	64QAM	17.23	20.23	22.05	-1.82	Pass

\* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.

\*\* - Margin = Total output power – specification limit.



<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

**Table 7.1.9 Conducted output power test results**

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 DETECTOR USED: Peak  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz  
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26 dB EBW)  
 ANTENNA ASSEMBLY GAIN: 6 dBi  
 EMISSION BANDWIDTH: 5 MHz

Frequency, MHz	26 dB Bandwidth, MHz	Bit Rate, MBps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel</b>								
5480	7.050	3.25	BPSK	15.07	18.07	19.48	-1.41	Pass
5480	6.650	32.5	64QAM	15.08	18.08	19.23	-1.15	Pass
<b>First mid channel</b>								
5590	7.400	3.25	BPSK	15.10	18.10	19.69	-1.59	Pass
5590	6.950	32.5	64QAM	15.20	18.20	19.42	-1.22	Pass
<b>Second mid channel (for IC only)</b>								
5660	6.975	3.25	BPSK	14.50	17.50	19.44	-1.94	Pass
5660	6.900	32.5	64QAM	14.35	17.35	19.39	-2.04	Pass
<b>High channel</b>								
5715	7.050	3.25	BPSK	13.95	16.95	19.48	-2.53	Pass
5715	6.800	32.5	64QAM	13.62	16.62	19.32	-2.70	Pass

\* - The total output power was calculated from the measured one by addition of 3 dB for the second Tx chain.  
 \*\* - Margin = Total output power – specification limit.

**Reference numbers of test equipment used**

HL2909	HL 2952	HL 3442					
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Full description is given in Appendix A.





HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

**Table 7.1.10 Peak power spectral density test results**

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 TRANSMITTER OUTPUT POWER SETTINGS: "15 dBm" at 40 MHz channel bandwidth In-Band  
 "11.5 dBm" at 40 MHz channel bandwidth Not In-Band  
 DETECTOR USED: Sample  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz  
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)  
 ANTENNA ASSEMBLY GAIN: 6 dBi  
 EMISSION BANDWIDTH: 40 MHz

Frequency, MHz	Bit Rate, MBps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel In-Band</b>							
5505	27	BPSK	0.58	3.58	11.0	-7.42	Pass
5505	270	64QAM	0.54	3.54	11.0	-7.46	Pass
<b>Low channel</b>							
5500	27	BPSK	-2.45	0.55	11.0	-10.45	Pass
5500	270	64QAM	-2.88	0.12	11.0	-10.88	Pass
<b>First mid channel In-Band</b>							
5565	27	BPSK	0.42	3.42	11.0	-7.58	Pass
5565	270	64QAM	0.69	3.67	11.0	-7.33	Pass
<b>First mid channel</b>							
5570	27	BPSK	-2.46	0.54	11.0	-10.46	Pass
5570	270	64QAM	-2.84	0.16	11.0	-10.84	Pass
<b>Second mid channel (for IC only) In-Band</b>							
5685	27	BPSK	1.16	4.16	11.0	-6.84	Pass
5685	270	64QAM	1.62	4.62	11.0	-6.38	Pass
<b>Second mid channel (for IC only)</b>							
5680	27	BPSK	-2.82	0.18	11.0	-10.82	Pass
5680	270	64QAM	-3.22	-0.22	11.0	-11.22	Pass
<b>High channel In-Band</b>							
5690	27	BPSK	0.87	3.87	11.0	-7.13	Pass
5690	270	64QAM	1.03	4.03	11.0	-6.97	Pass
<b>High channel</b>							
5695	27	BPSK	-3.46	-0.46	11.0	-11.46	Pass
5695	270	64QAM	-3.30	-0.30	11.0	-11.30	Pass

\* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

\*\* - Margin = Total peak power density – specification limit.



<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

**Table 7.1.11 Peak power spectral density test results**

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 TRANSMITTER OUTPUT POWER SETTINGS: "17.5 dBm" at 20 MHz channel bandwidth  
 DETECTOR USED: Sample  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz  
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)  
 ANTENNA ASSEMBLY GAIN: 6 dBi  
 EMISSION BANDWIDTH: 20 MHz

Frequency, MHz	Bit Rate, MBps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel</b>							
5490	13	BPSK	1.84	4.84	11.0	-6.16	Pass
5490	130	64QAM	1.78	4.78	11.0	-6.22	Pass
<b>First mid channel</b>							
5580	13	BPSK	1.50	4.50	11.0	-6.50	Pass
5580	130	64QAM	2.15	5.15	11.0	-5.85	Pass
<b>Second mid channel (for IC only)</b>							
5670	13	BPSK	2.05	5.05	11.0	-5.95	Pass
5670	130	64QAM	3.20	6.20	11.0	-4.80	Pass
<b>High channel</b>							
5705	13	BPSK	2.08	5.08	11.0	-5.92	Pass
5705	130	64QAM	2.16	5.16	11.0	-5.84	Pass

\* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

\*\* - Margin = Total peak power density – specification limit.



<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

**Table 7.1.12 Peak power spectral density test results**

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 TRANSMITTER OUTPUT POWER SETTINGS: "16 dBm" at 10 MHz channel bandwidth  
 DETECTOR USED: Sample  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz  
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)  
 ANTENNA ASSEMBLY GAIN: 6 dBi  
 EMISSION BANDWIDTH: 10 MHz

Frequency, MHz	Bit Rate, MBps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel</b>							
5485	6.5	BPSK	3.84	6.84	11.0	-4.16	Pass
5485	65	64QAM	3.11	6.11	11.0	-4.89	Pass
<b>First mid channel</b>							
5585	6.5	BPSK	3.23	6.23	11.0	-4.77	Pass
5585	65	64QAM	3.61	6.61	11.0	-4.39	Pass
<b>Second mid channel (for IC only)</b>							
5665	6.5	BPSK	3.90	6.90	11.0	-4.10	Pass
5665	65	64QAM	3.06	6.06	11.0	-4.94	Pass
<b>High channel</b>							
5710	6.5	BPSK	3.62	6.62	11.0	-4.38	Pass
5710	65	64QAM	3.15	6.15	11.0	-4.85	Pass

\* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.

\*\* - Margin = Total peak power density – specification limit.



<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

**Table 7.1.13 Peak power spectral density test results**

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 TRANSMITTER OUTPUT POWER SETTINGS: "13 dBm" at 5 MHz channel bandwidth  
 DETECTOR USED: Sample  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz  
 METHOD OF POWER DENSITY MEASUREMENTS: 2 (Sample detector and 100 power averaging)  
 ANTENNA ASSEMBLY GAIN: 6 dBi  
 EMISSION BANDWIDTH: 5 MHz

Frequency, MHz	Bit Rate, MBps	Modulation	Peak power spectral density				Verdict
			Measured, dBm	Total peak power spectral density, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel</b>							
5480	3.25	BPSK	3.02	6.02	11.0	-4.98	Pass
5480	32.5	64QAM	3.15	6.15	11.0	-4.85	Pass
<b>First mid channel</b>							
5590	3.25	BPSK	2.77	5.77	11.0	-5.23	Pass
5590	32.5	64QAM	2.96	5.96	11.0	-5.04	Pass
<b>Second mid channel (for IC only)</b>							
5660	3.25	BPSK	2.58	5.58	11.0	-5.42	Pass
5660	32.5	64QAM	3.03	6.03	11.0	-4.97	Pass
<b>High channel</b>							
5715	3.25	BPSK	2.17	5.17	11.0	-5.83	Pass
5715	32.5	64QAM	2.35	5.35	11.0	-5.65	Pass

\* - The total peak power spectral density was calculated from measured by addition of 3 dB for the second Tx chain.  
 \*\* - Margin = Total peak power density – specification limit.

**Reference numbers of test equipment used**

HL2909	HL 2952	HL 3442					
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Full description is given in Appendix A.

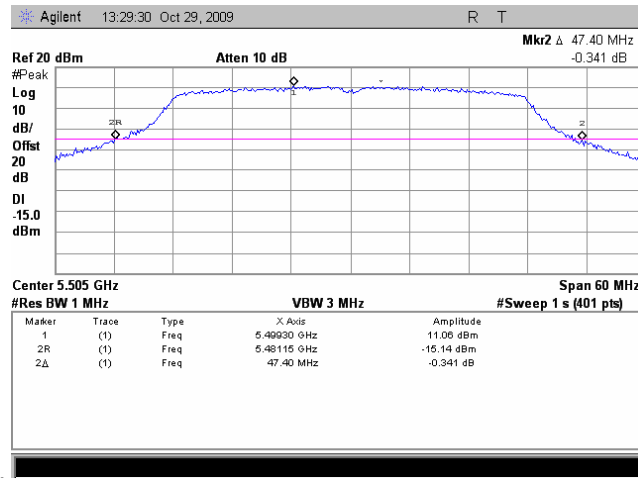


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

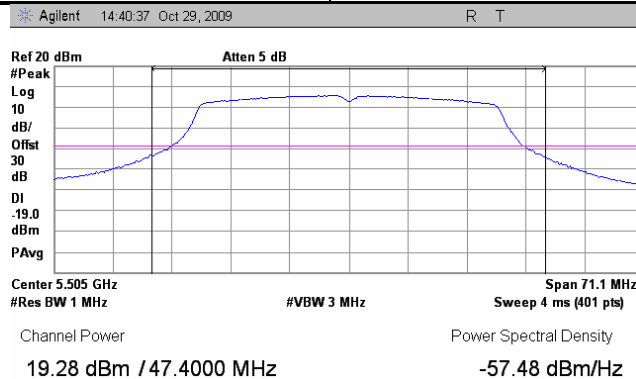
Plot 7.1.97 The 26 dB emission bandwidth

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.98 Peak output power

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



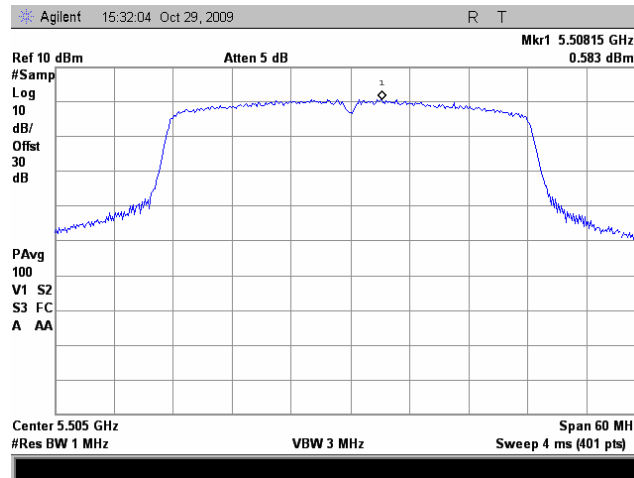


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

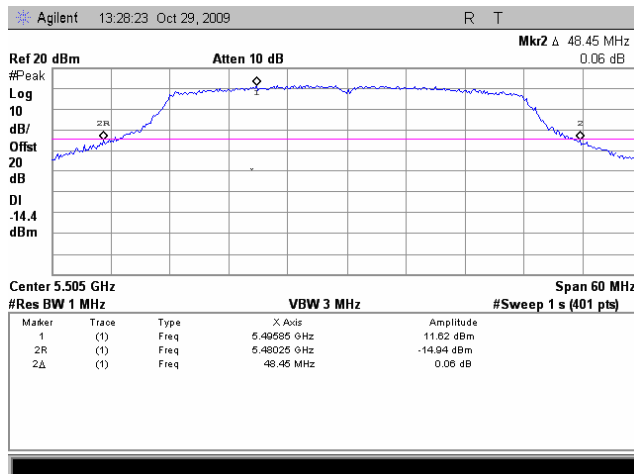
Plot 7.1.99 Peak spectral power density

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.100 The 26 dB emission bandwidth

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band



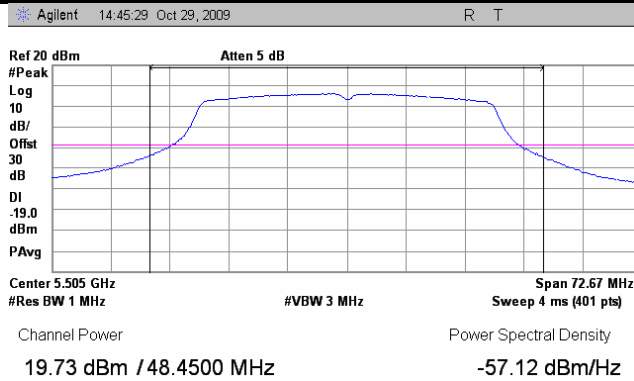


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<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

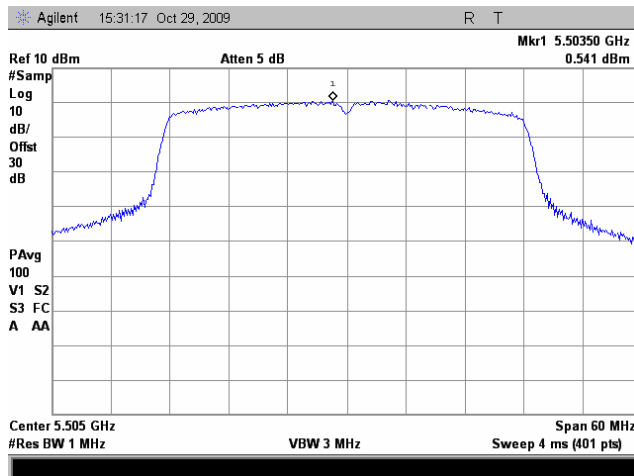
Plot 7.1.101 Peak output power

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band



Plot 7.1.102 Peak spectral power density

Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band



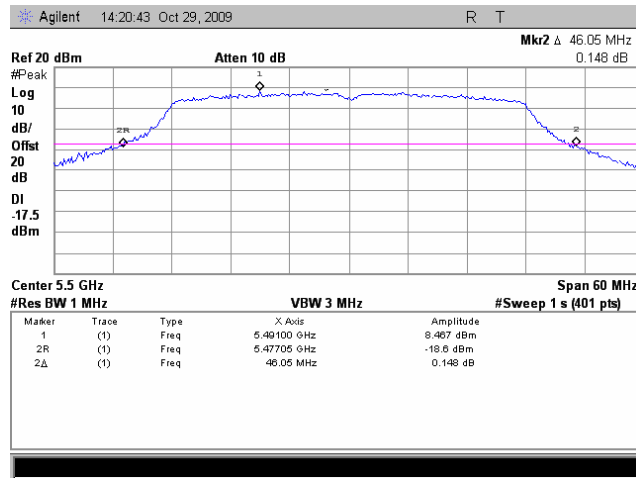


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

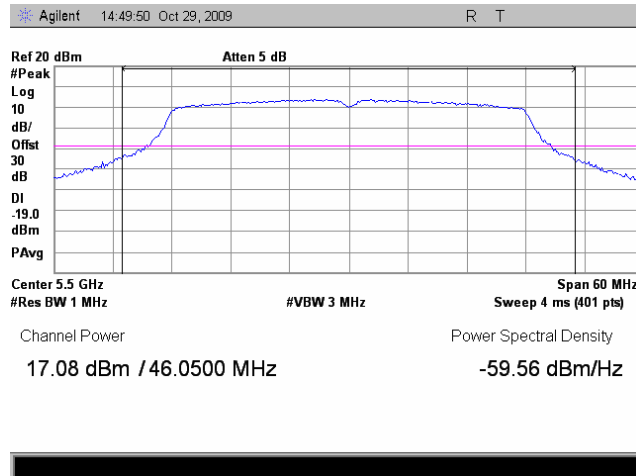
Plot 7.1.103 The 26 dB emission bandwidth

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.104 Peak output power

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge





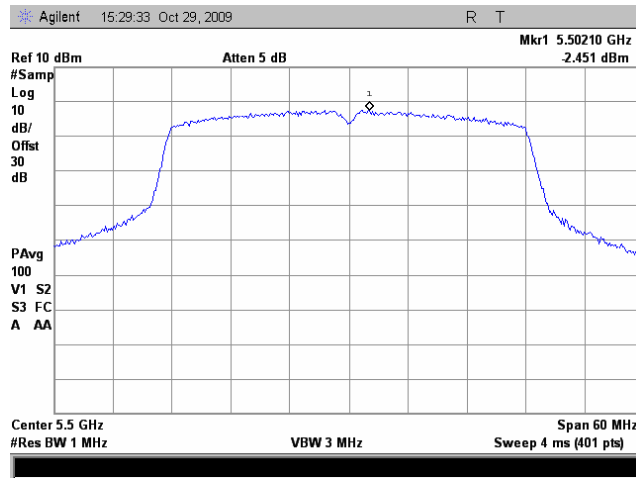


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

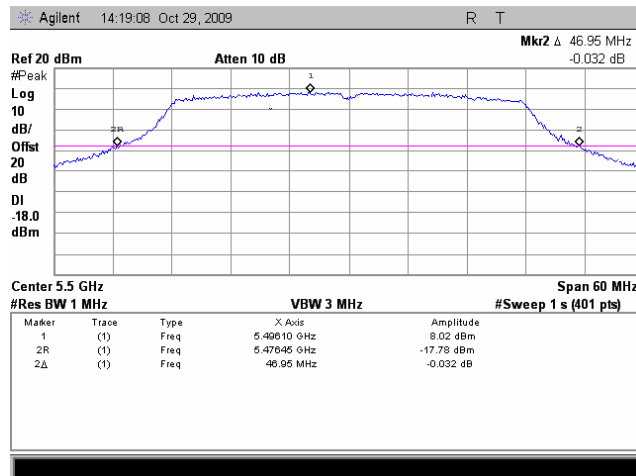
Plot 7.1.105 Peak spectral power density

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.106 The 26 dB emission bandwidth

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



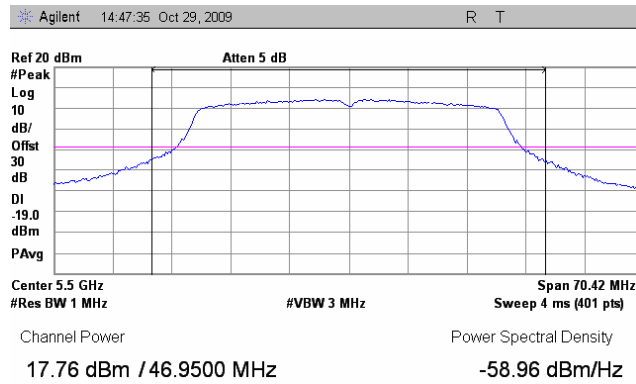


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

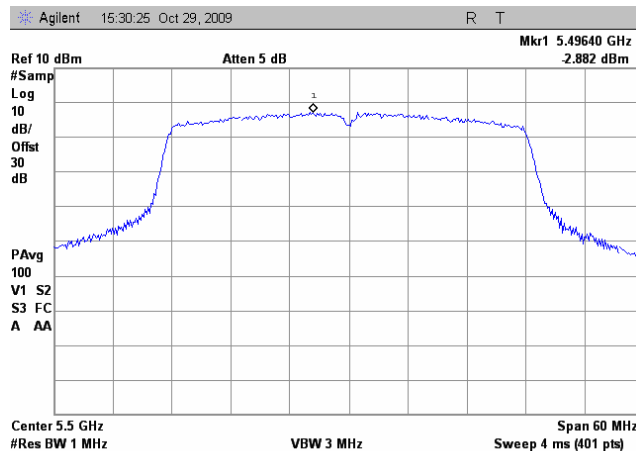
Plot 7.1.107 Peak output power

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



Plot 7.1.108 Peak spectral power density

Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



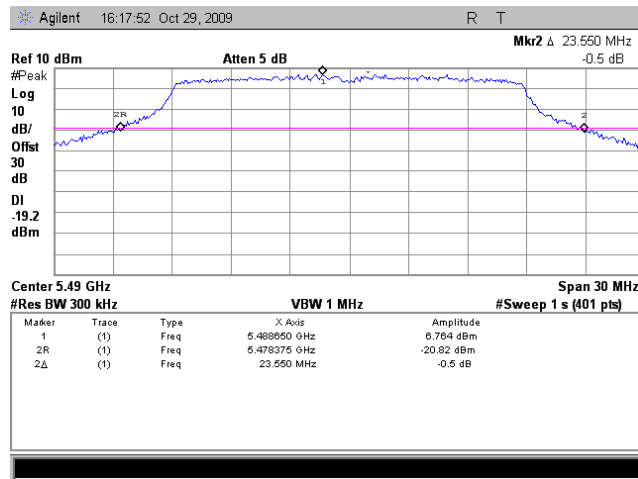


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

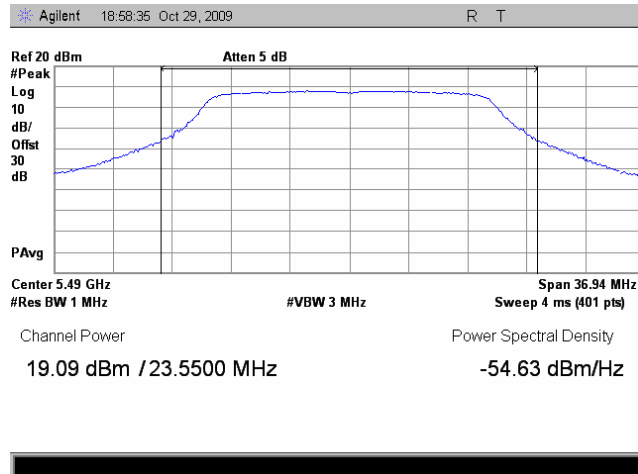
Plot 7.1.109 The 26 dB emission bandwidth

Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



Plot 7.1.110 Peak output power

Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



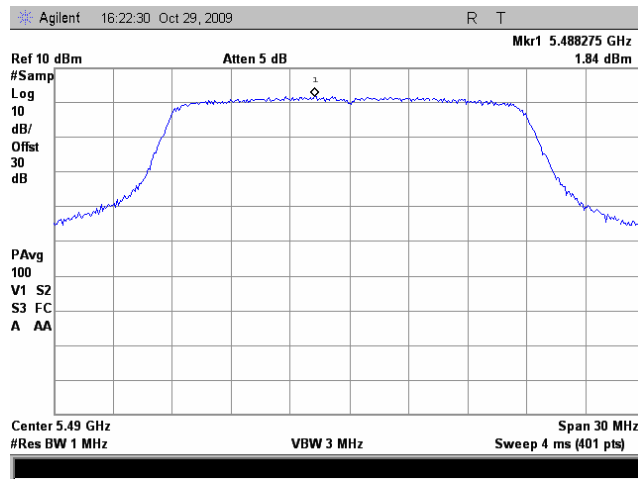


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

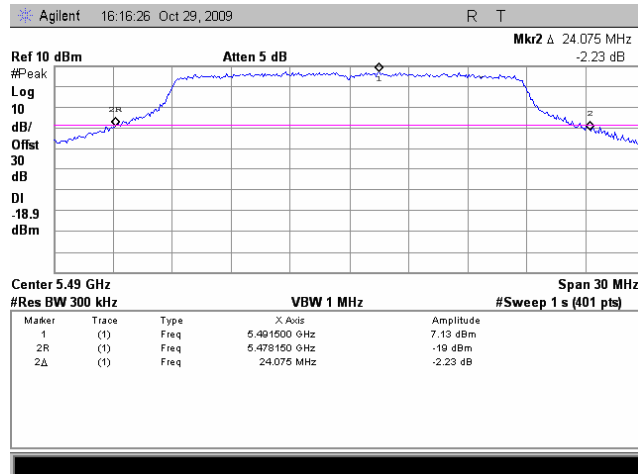
Plot 7.1.111 Peak spectral power density

Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



Plot 7.1.112 The 26 dB emission bandwidth

Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



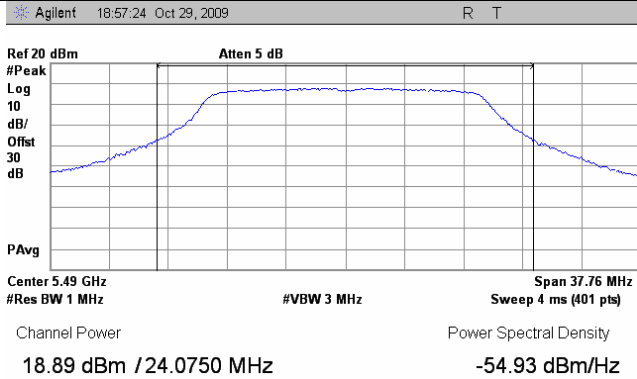


HERMON LABORATORIES

<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

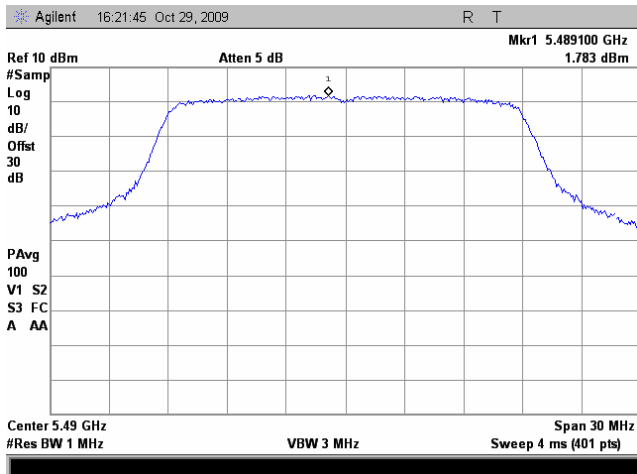
Plot 7.1.113 Peak output power

Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



Plot 7.1.114 Peak spectral power density

Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



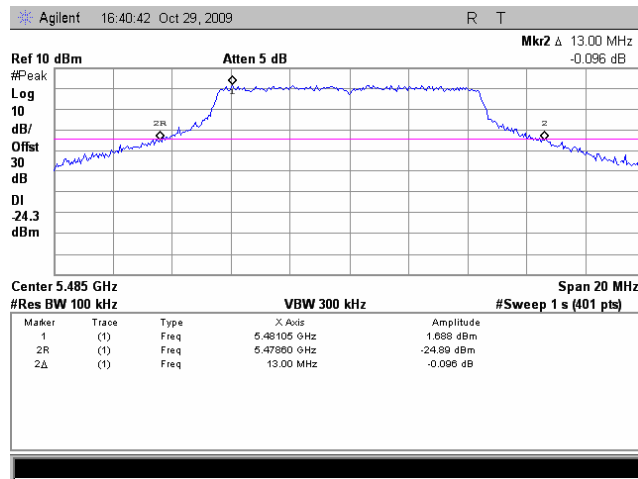


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

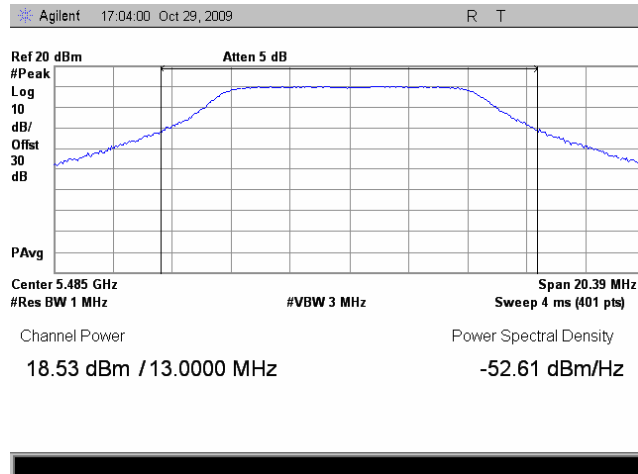
Plot 7.1.115 The 26 dB emission bandwidth

Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 7.1.116 Peak output power

Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



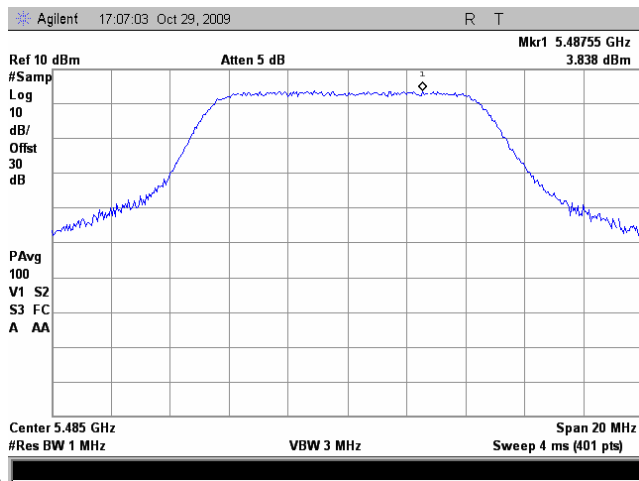


HERMON LABORATORIES

<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

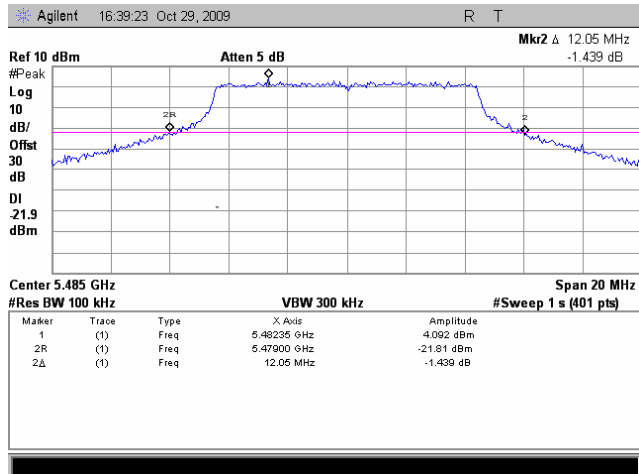
Plot 7.1.117 Peak spectral power density

Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 7.1.118 The 26 dB emission bandwidth

Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



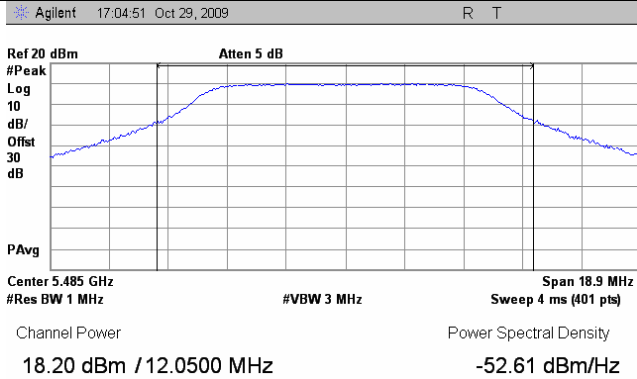


HERMON LABORATORIES

<b>Test specification:</b>	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

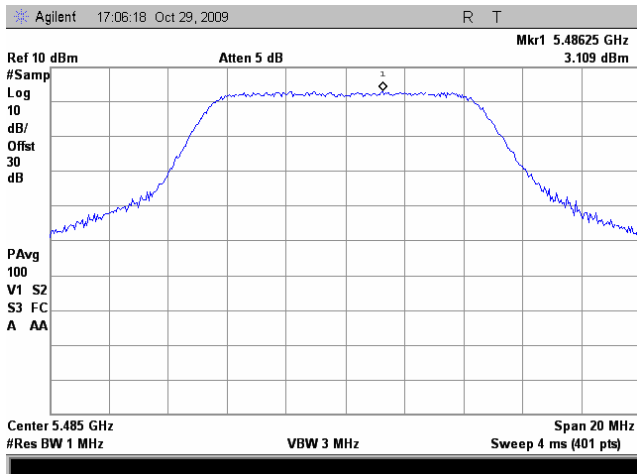
Plot 7.1.119 Peak output power

Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



Plot 7.1.120 Peak spectral power density

Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps





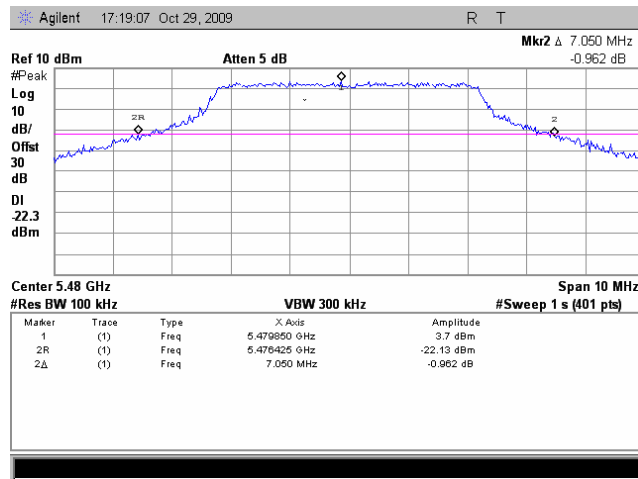


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

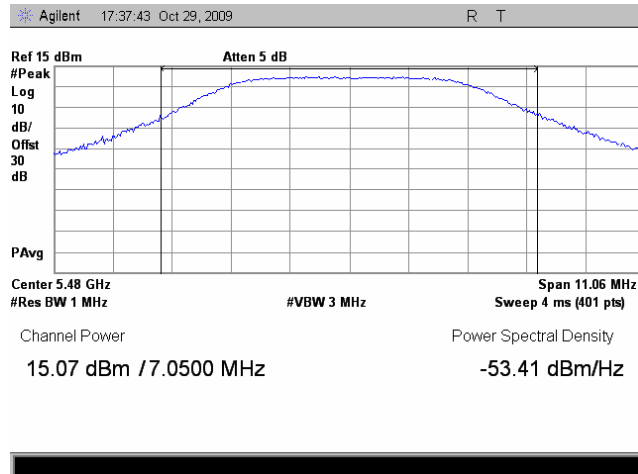
Plot 7.1.121 The 26 dB emission bandwidth

Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



Plot 7.1.122 Peak output power

Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



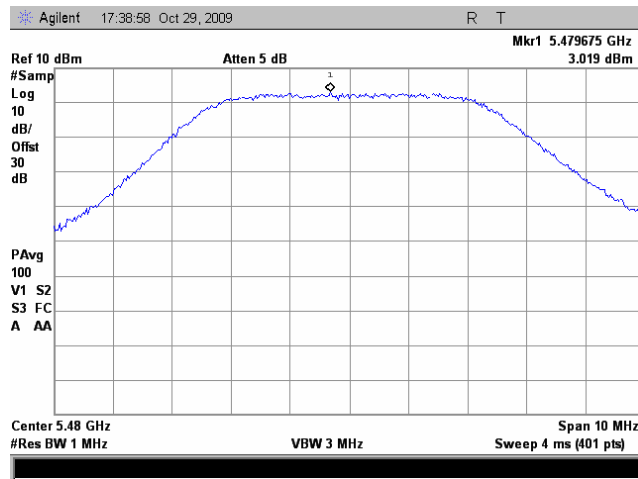


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

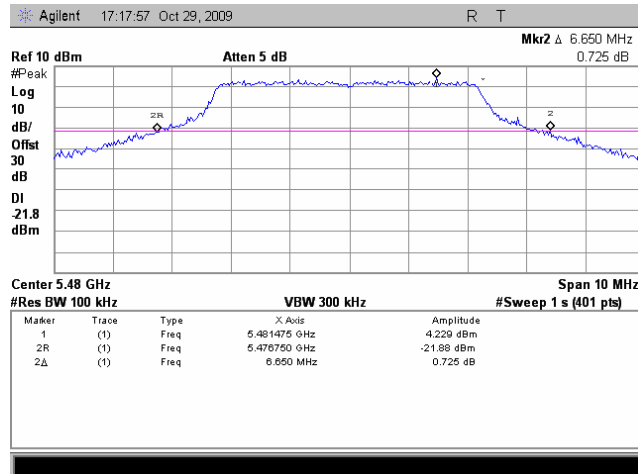
Plot 7.1.123 Peak spectral power density

Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



Plot 7.1.124 The 26 dB emission bandwidth

Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



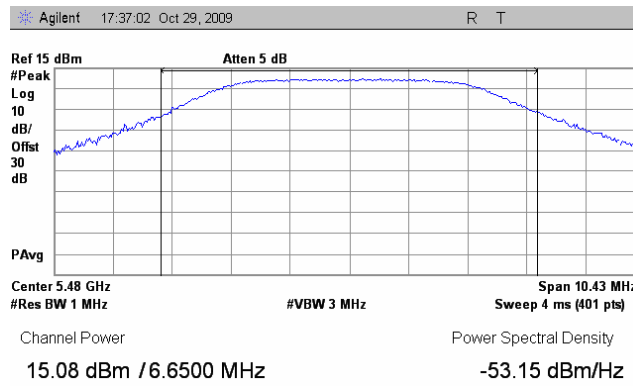


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

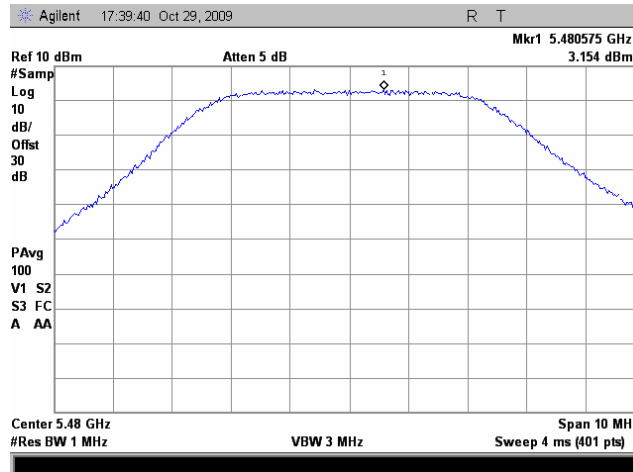
Plot 7.1.125 Peak output power

Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



Plot 7.1.126 Peak spectral power density

Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



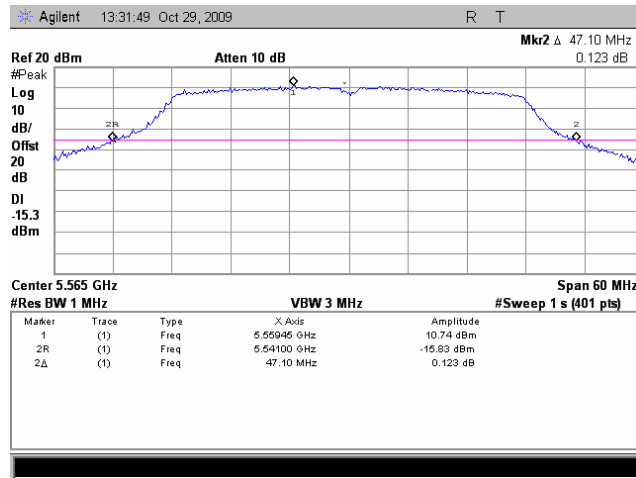


HERMON LABORATORIES

<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

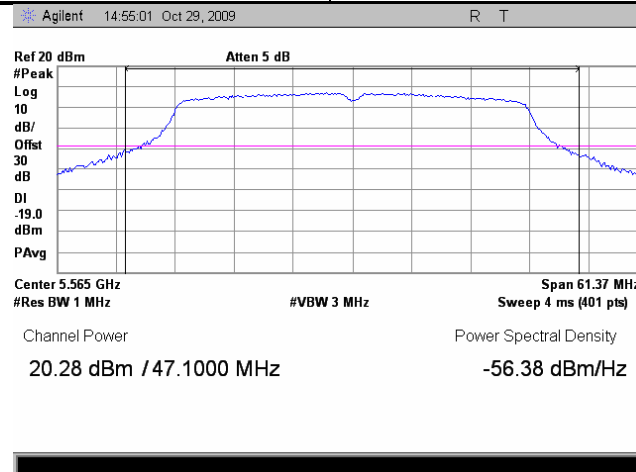
Plot 7.1.127 The 26 dB emission bandwidth

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.128 Peak output power

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



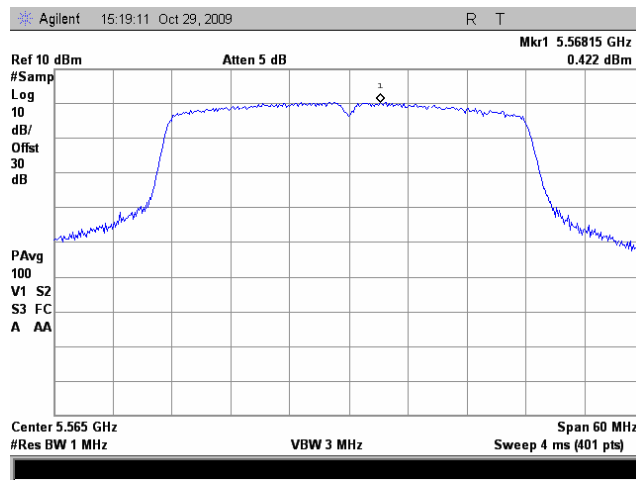


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

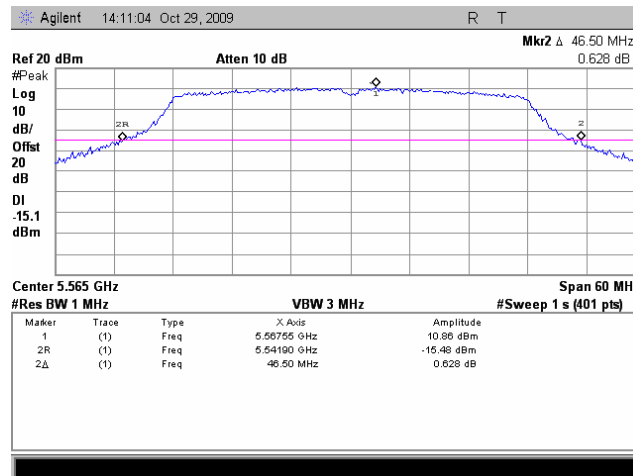
Plot 7.1.129 Peak spectral power density

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.130 The 26 dB emission bandwidth

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band



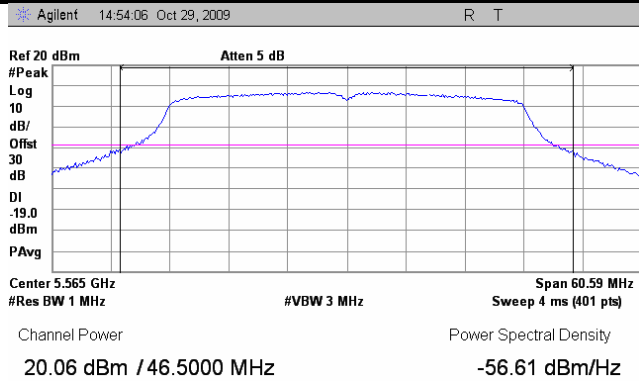


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2		<b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance		<b>Verdict:</b> PASS	
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

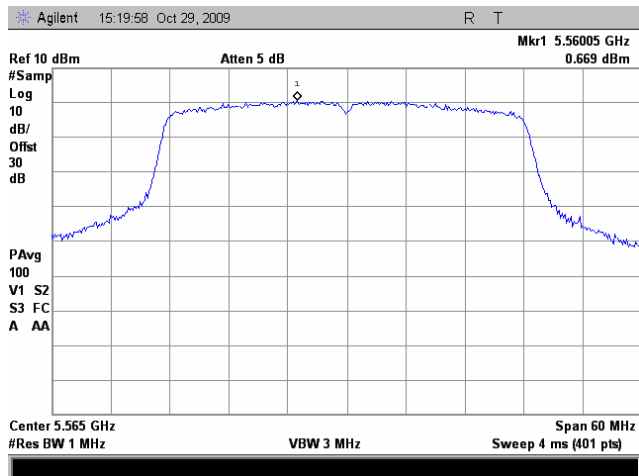
Plot 7.1.131 Peak output power

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band



Plot 7.1.132 Peak spectral power density

Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band



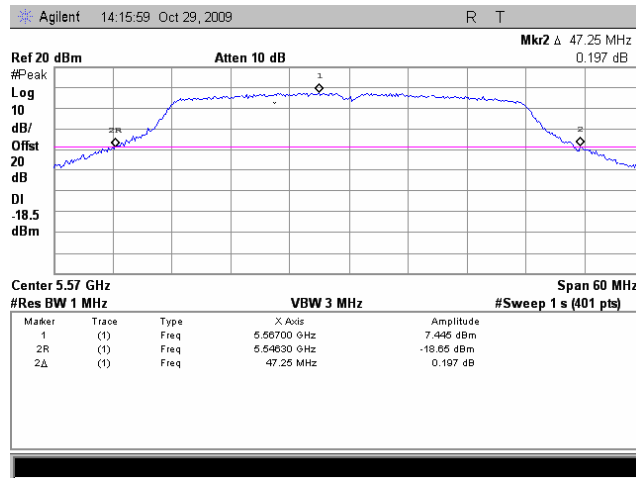


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

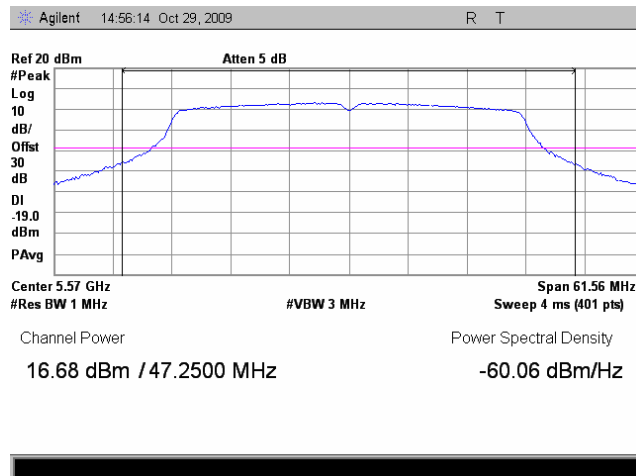
Plot 7.1.133 The 26 dB emission bandwidth

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.134 Peak output power

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



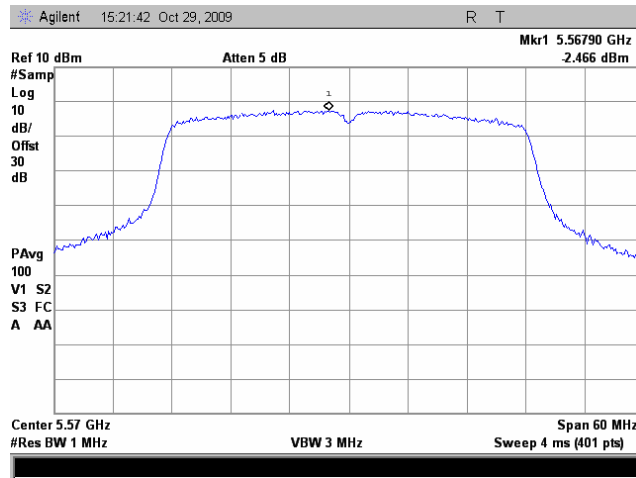


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

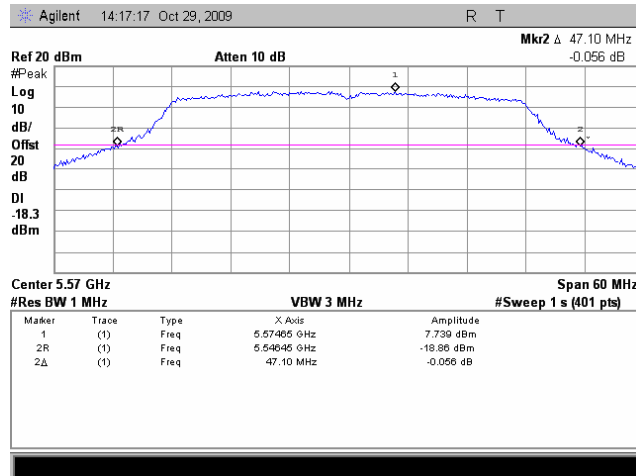
Plot 7.1.135 Peak spectral power density

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.136 The 26 dB emission bandwidth

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge





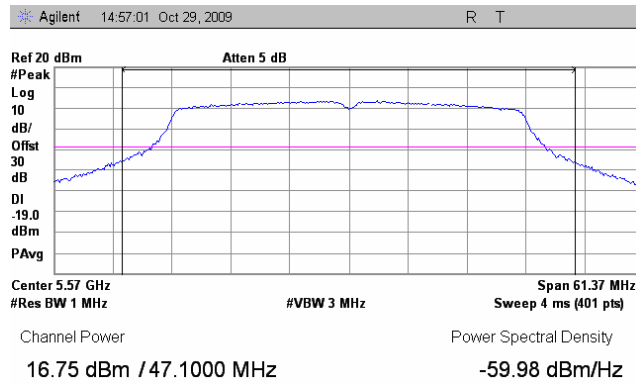


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

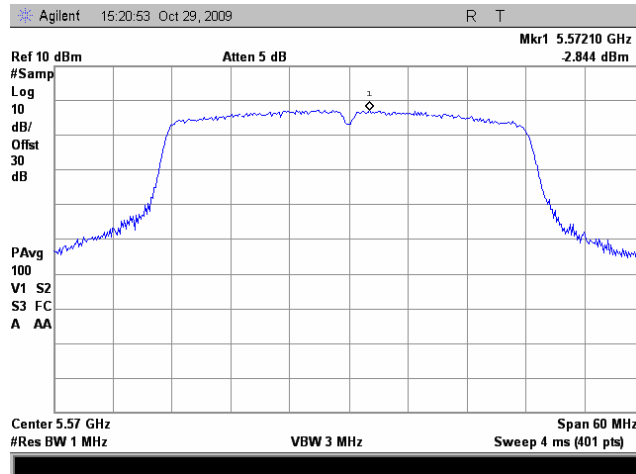
Plot 7.1.137 Peak output power

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



Plot 7.1.138 Peak spectral power density

Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



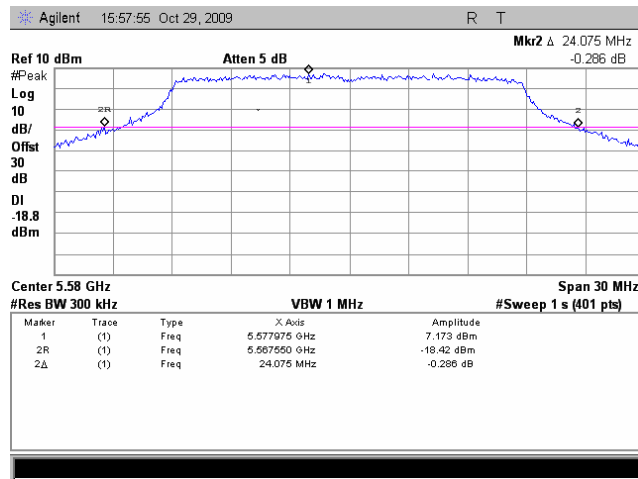


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

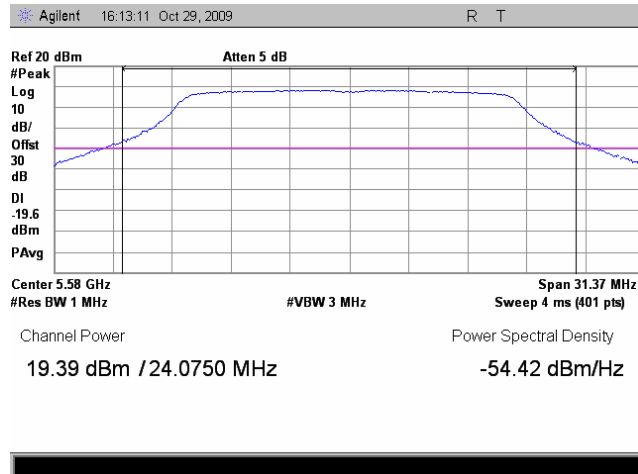
Plot 7.1.139 The 26 dB emission bandwidth

Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



Plot 7.1.140 Peak output power

Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



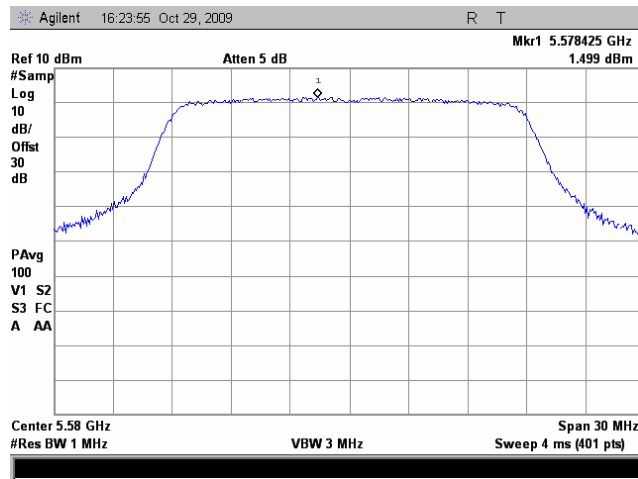


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

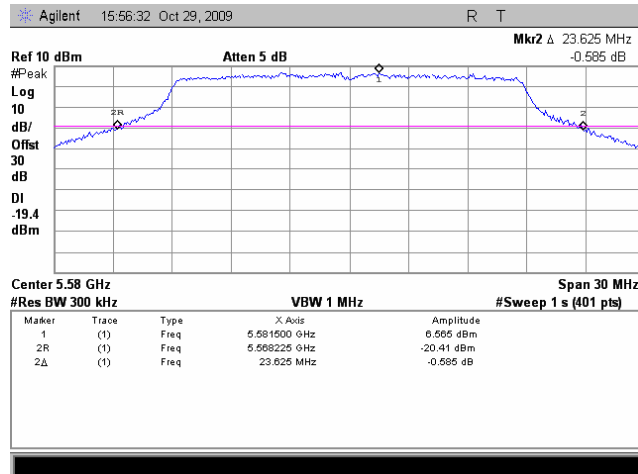
Plot 7.1.141 Peak spectral power density

Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



Plot 7.1.142 The 26 dB emission bandwidth

Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



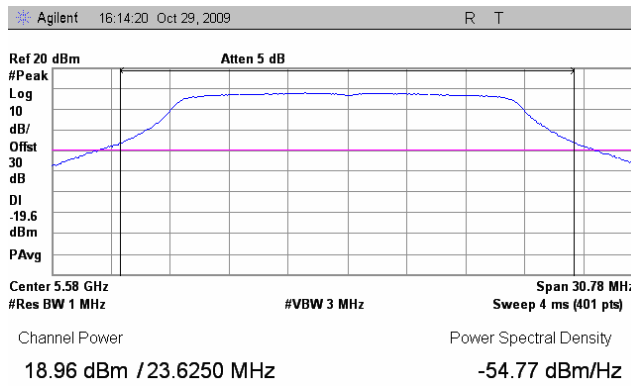


HERMON LABORATORIES

<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

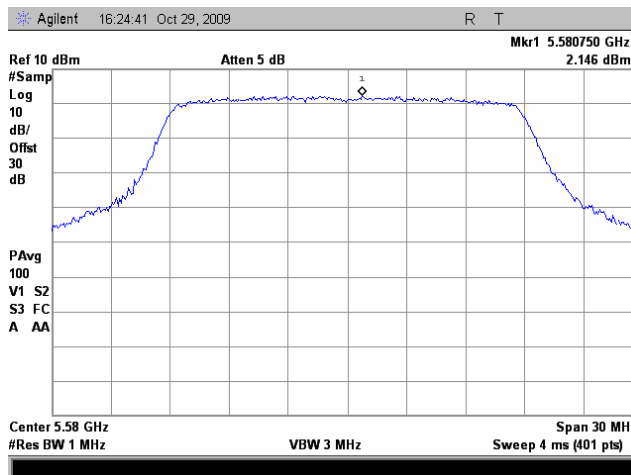
Plot 7.1.143 Peak output power

Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



Plot 7.1.144 Peak spectral power density

Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



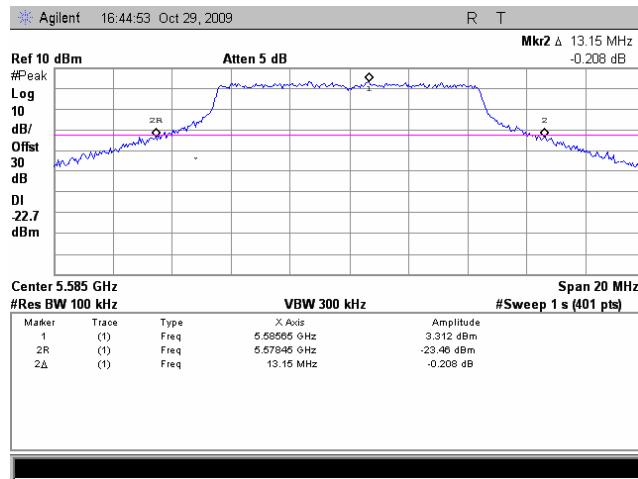


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

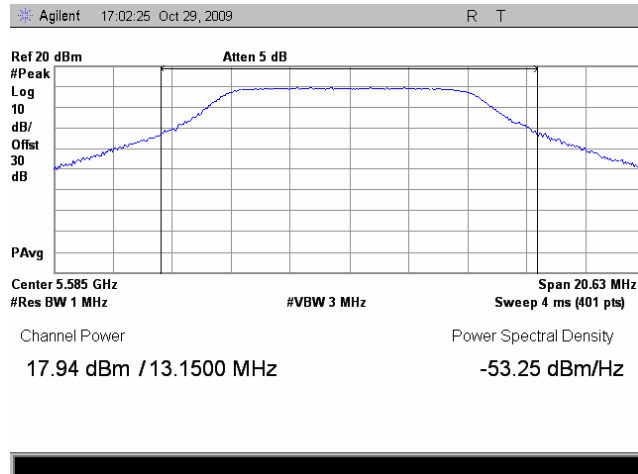
Plot 7.1.145 The 26 dB emission bandwidth

Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 7.1.146 Peak output power

Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



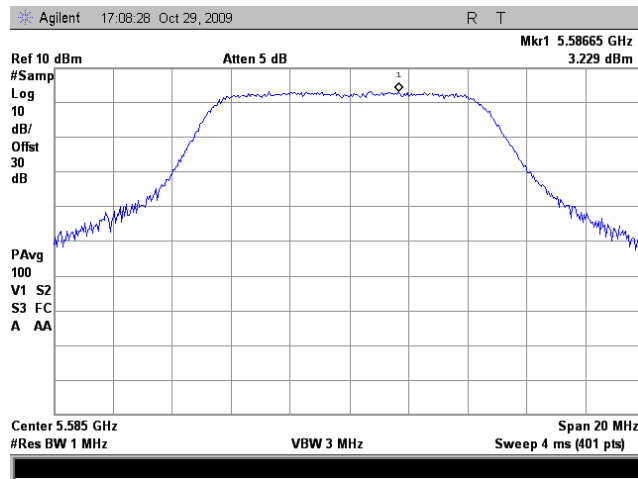


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

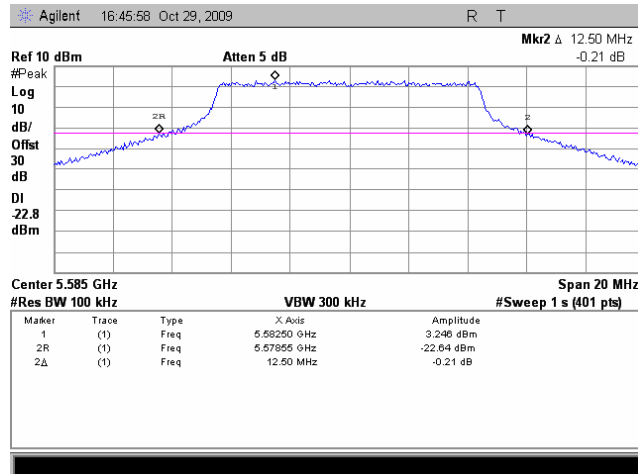
Plot 7.1.147 Peak spectral power density

Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 7.1.148 The 26 dB emission bandwidth

Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



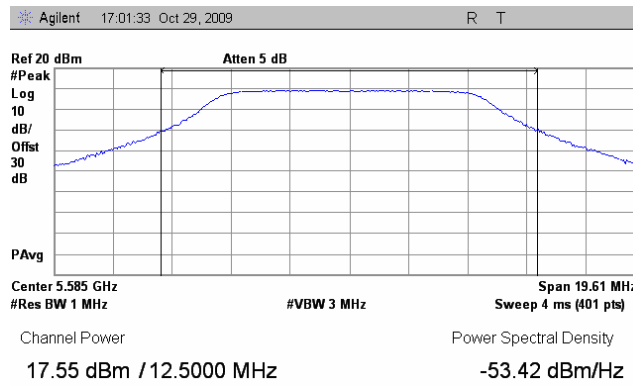


HERMON LABORATORIES

<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

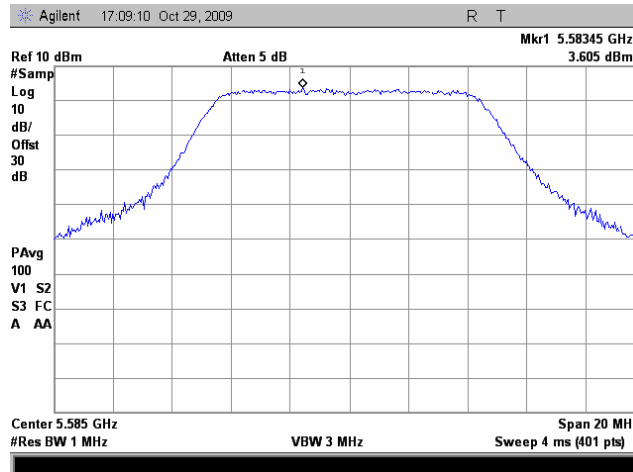
Plot 7.1.149 Peak output power

Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



Plot 7.1.150 Peak spectral power density

Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



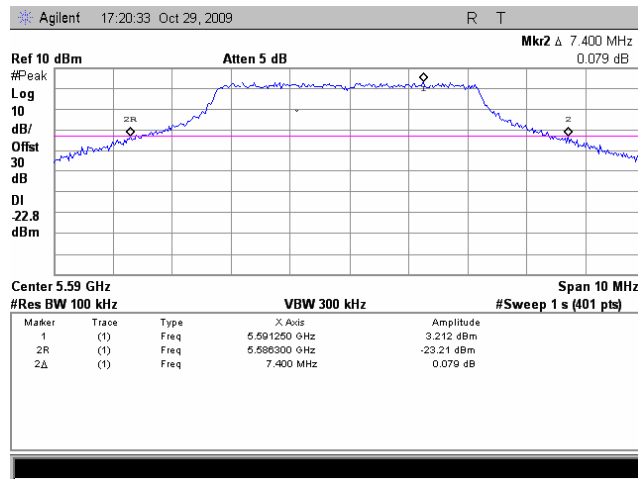


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

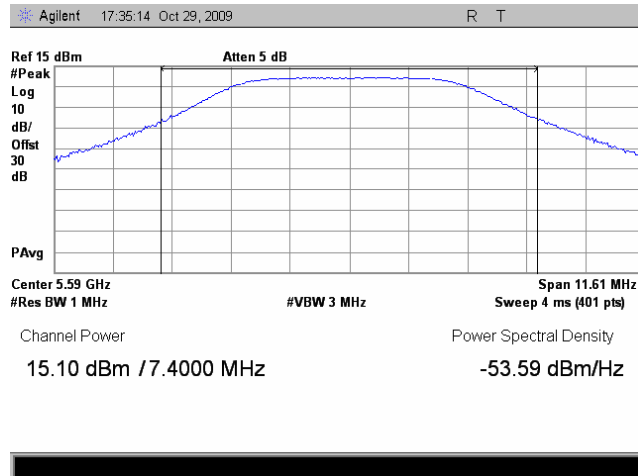
Plot 7.1.151 The 26 dB emission bandwidth

Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



Plot 7.1.152 Peak output power

Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps





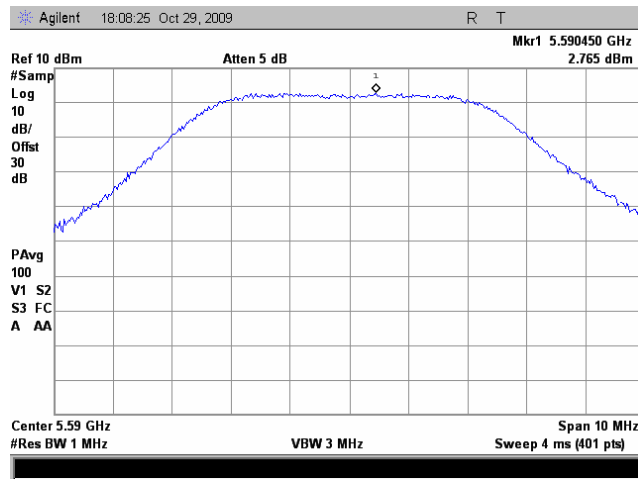


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

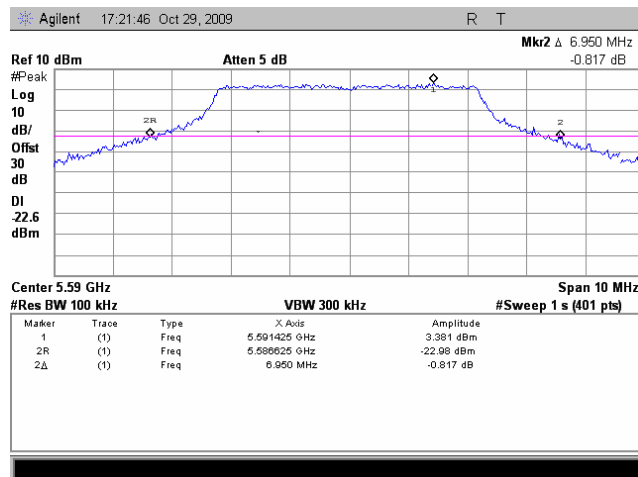
Plot 7.1.153 Peak spectral power density

Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



Plot 7.1.154 The 26 dB emission bandwidth

Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



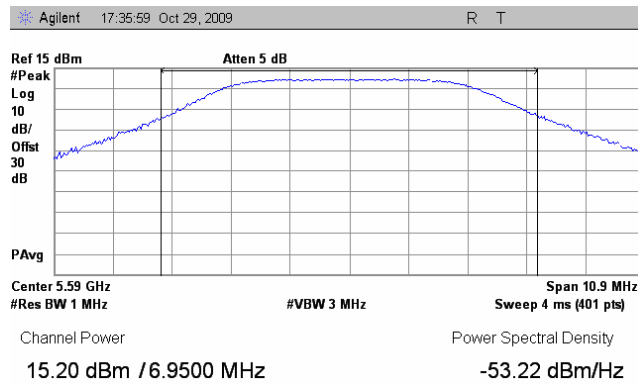


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

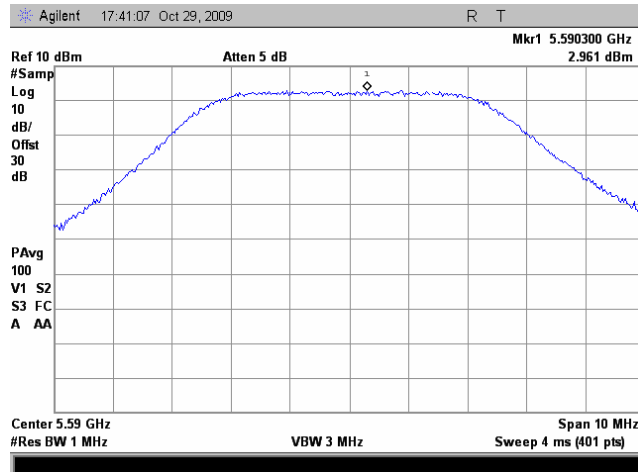
Plot 7.1.155 Peak output power

Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



Plot 7.1.156 Peak spectral power density

Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



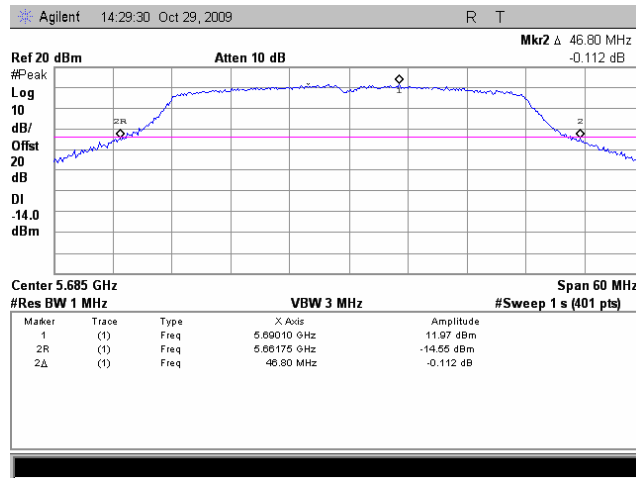


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

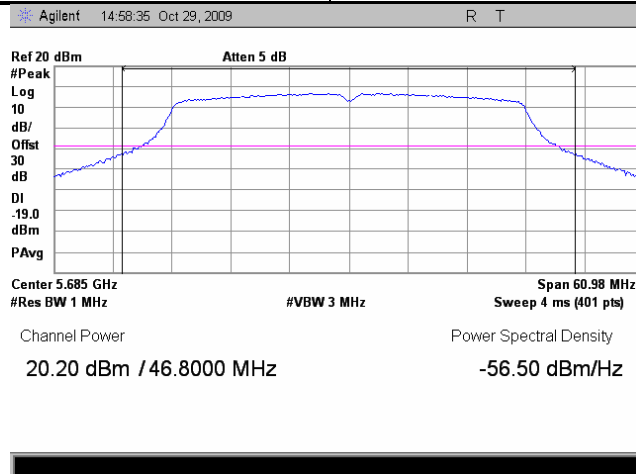
Plot 7.1.157 The 26 dB emission bandwidth

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.158 Peak output power

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



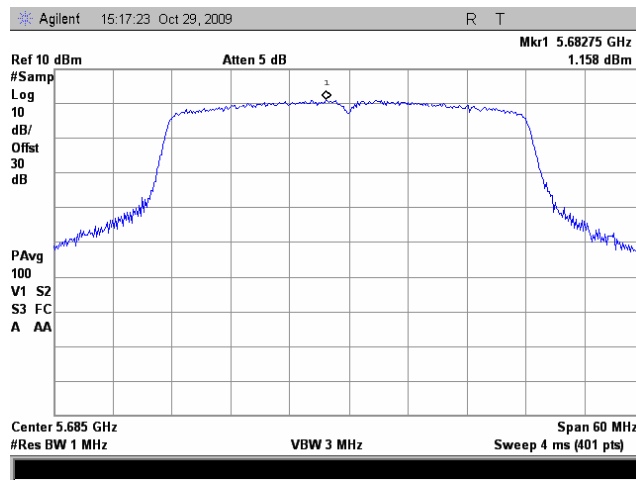


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

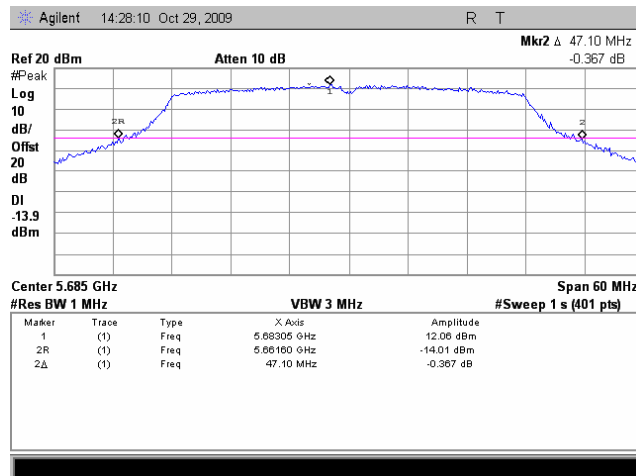
Plot 7.1.159 Peak spectral power density

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.160 The 26 dB emission bandwidth

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band



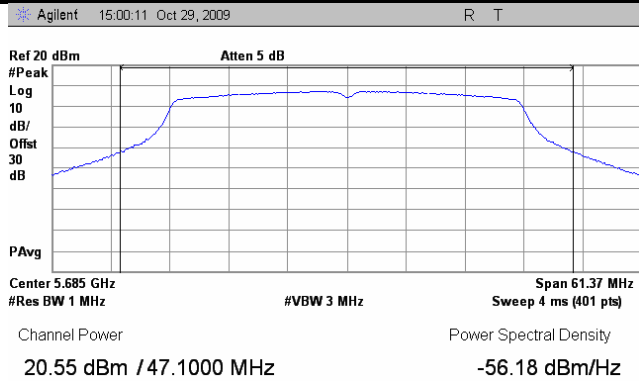


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

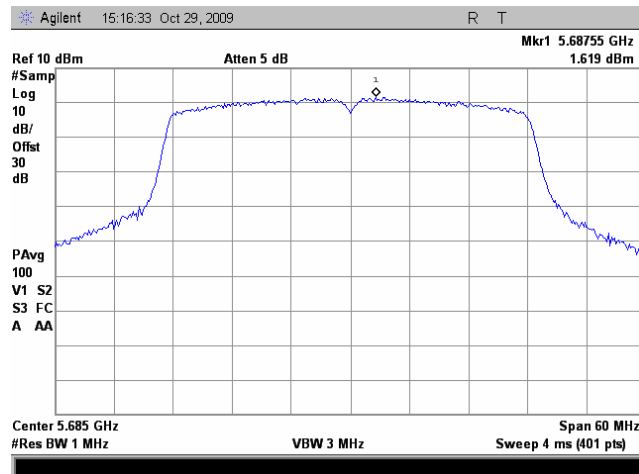
Plot 7.1.161 Peak output power

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band



Plot 7.1.162 Peak spectral power density

Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band

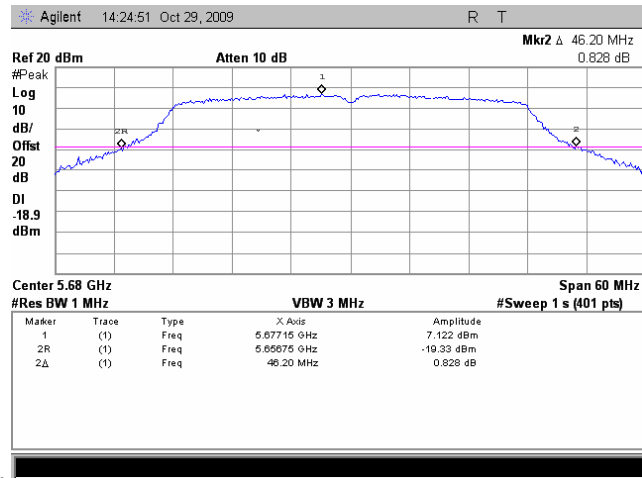




<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

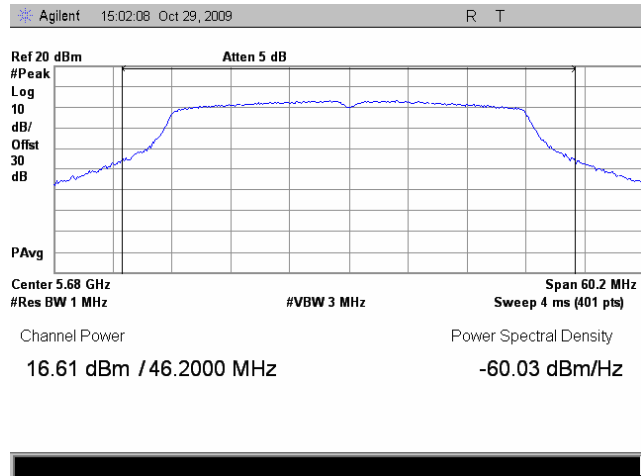
Plot 7.1.163 The 26 dB emission bandwidth

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.164 Peak output power

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



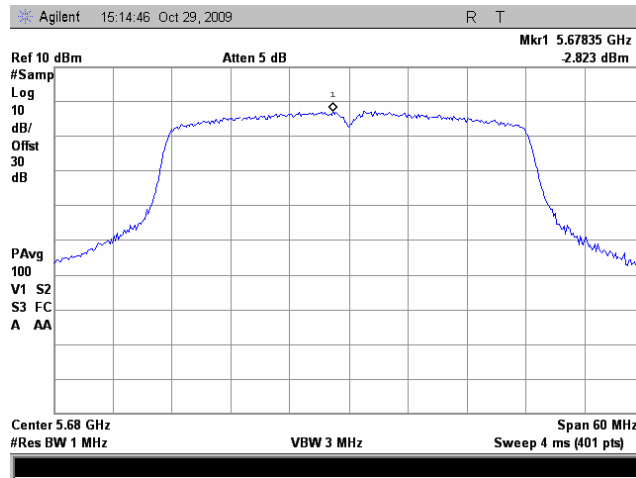


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

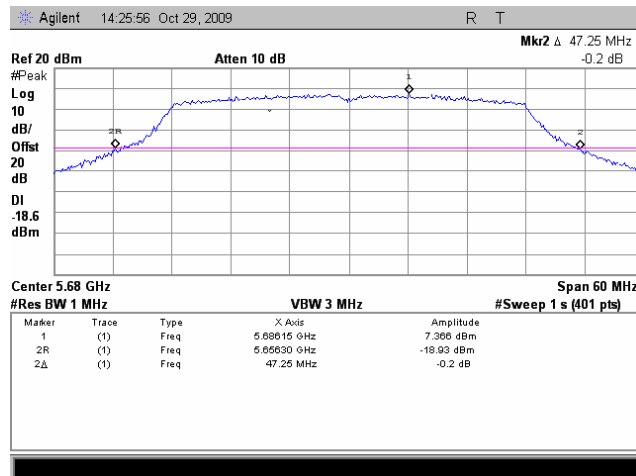
Plot 7.1.165 Peak spectral power density

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.166 The 26 dB emission bandwidth

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



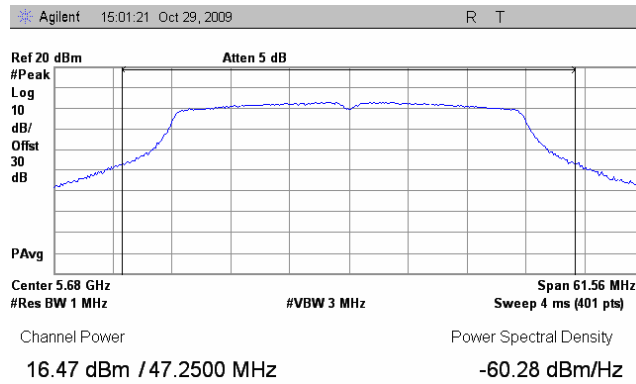


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

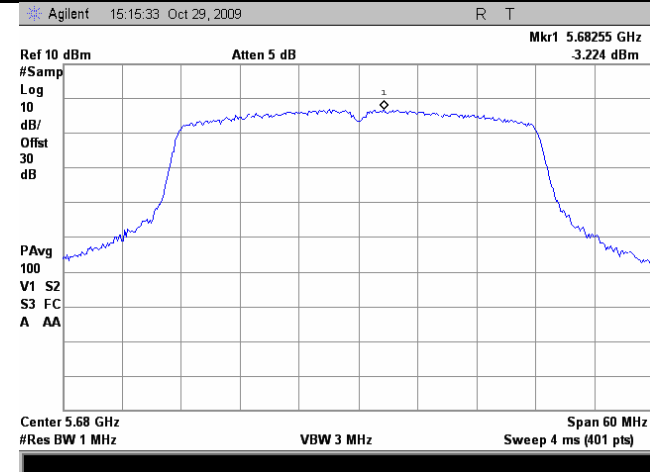
Plot 7.1.167 Peak output power

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



Plot 7.1.168 Peak spectral power density

Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge





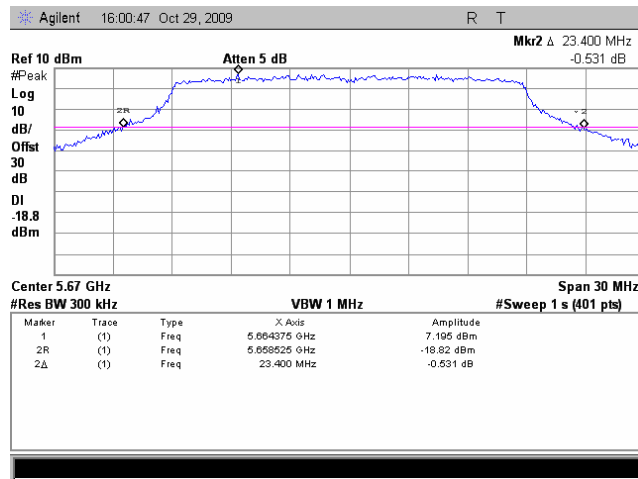


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

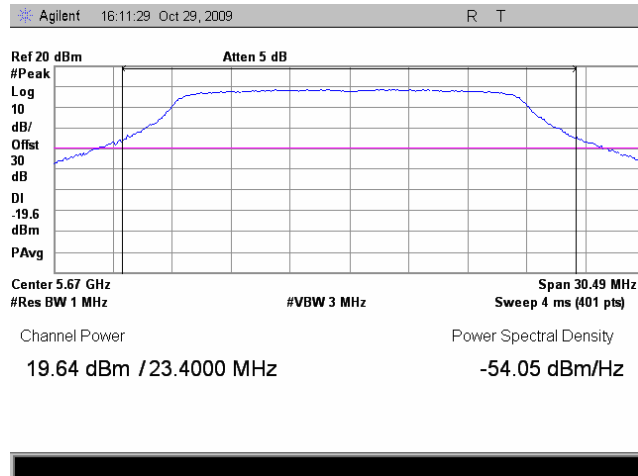
Plot 7.1.169 The 26 dB emission bandwidth

Frequency:	5670 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



Plot 7.1.170 Peak output power

Frequency:	5670MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



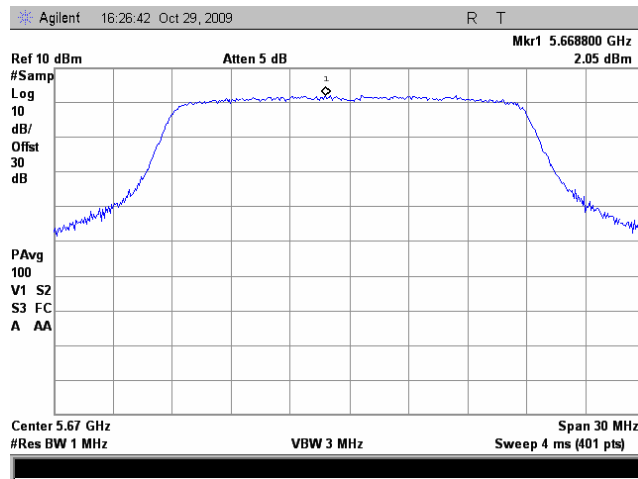


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

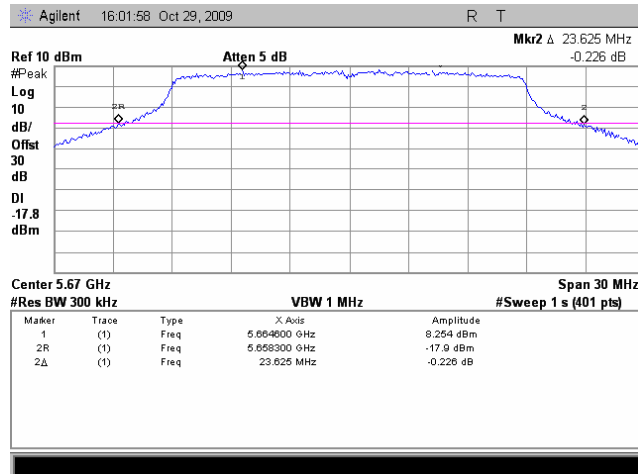
Plot 7.1.171 Peak spectral power density

Frequency:	5670MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



Plot 7.1.172 The 26 dB emission bandwidth

Frequency:	5670MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



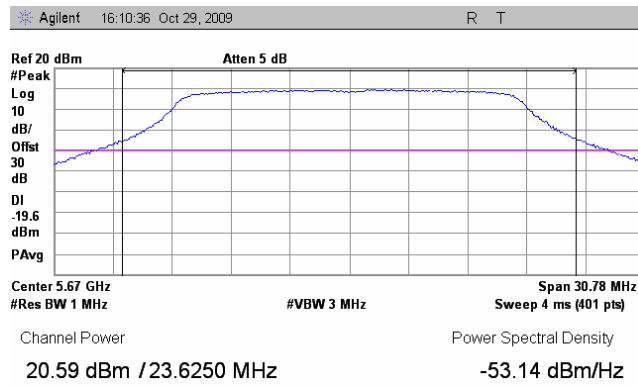


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

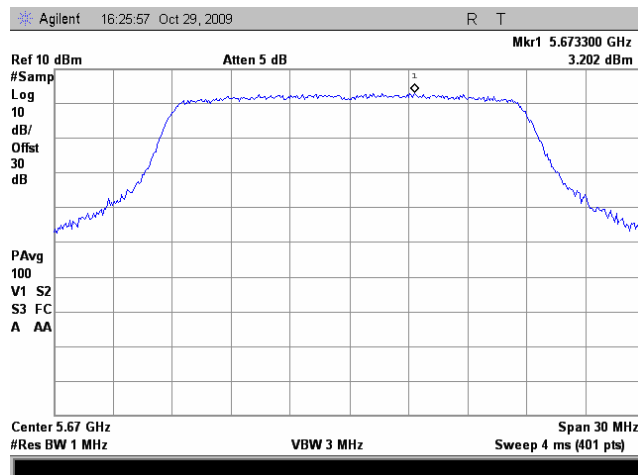
Plot 7.1.173 Peak output power

Frequency:	5670MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



Plot 7.1.174 Peak spectral power density

Frequency:	5670MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



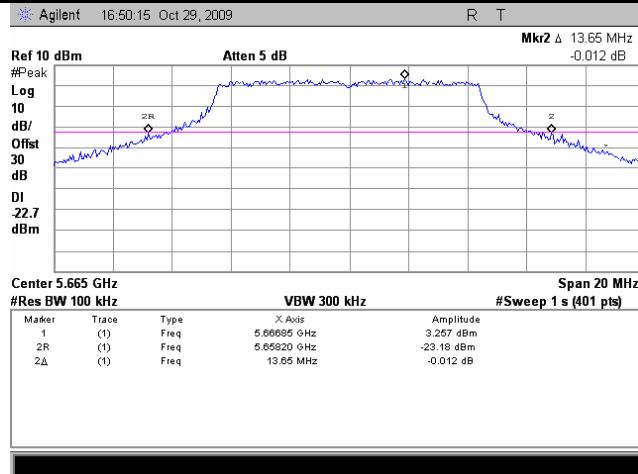


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

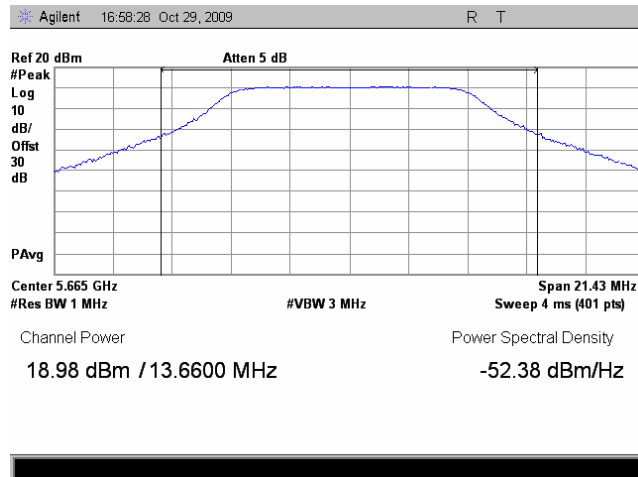
Plot 7.1.175 The 26 dB emission bandwidth

Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 7.1.176 Peak output power

Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



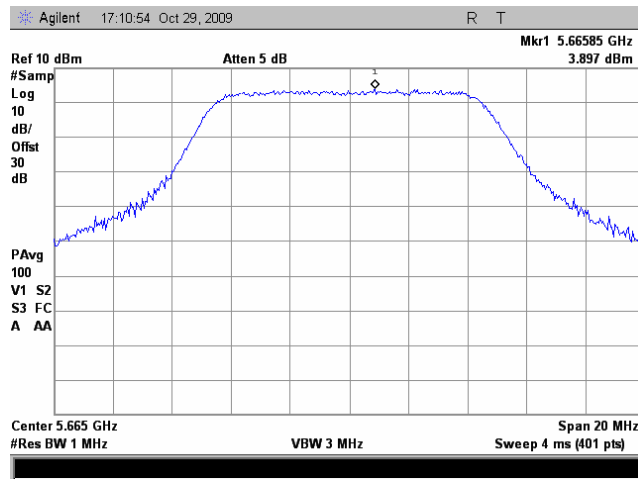


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

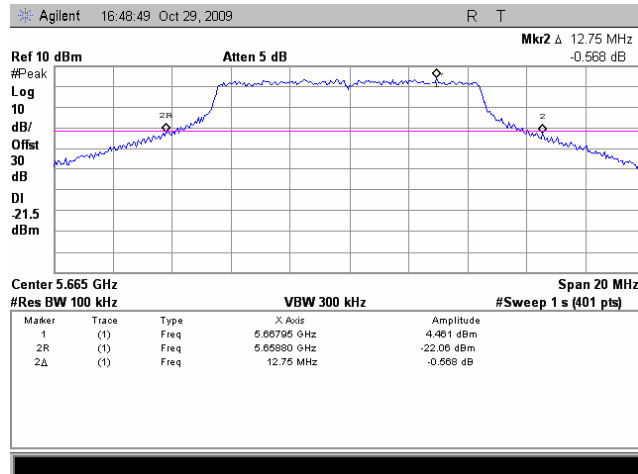
Plot 7.1.177 Peak spectral power density

Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 7.1.178 The 26 dB emission bandwidth

Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



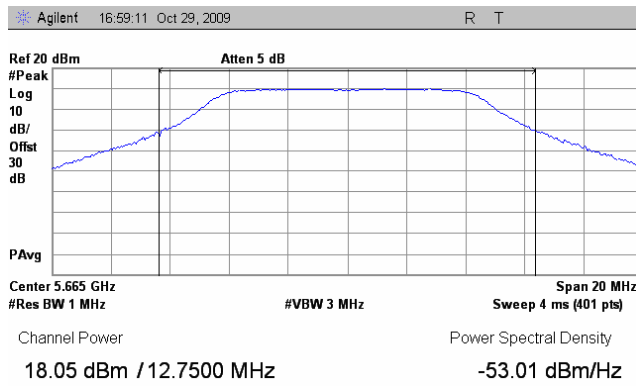


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

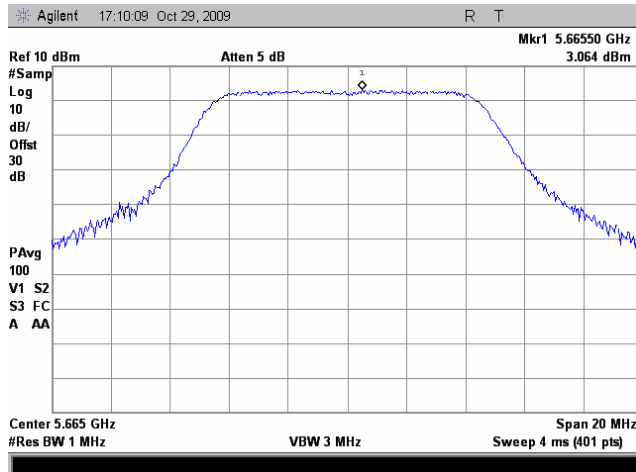
Plot 7.1.179 Peak output power

Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



Plot 7.1.180 Peak spectral power density

Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



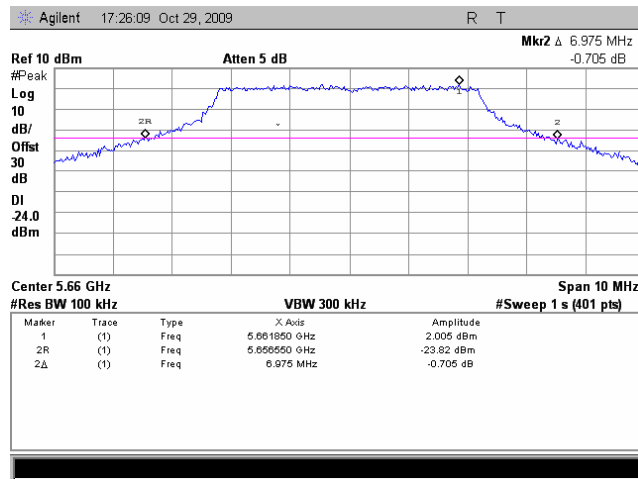


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

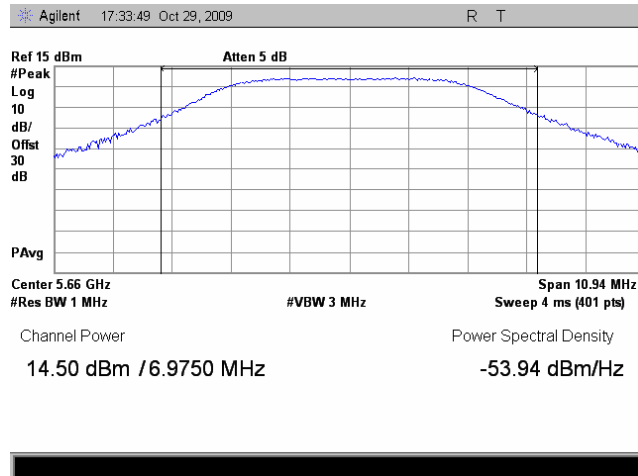
Plot 7.1.181 The 26 dB emission bandwidth

Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



Plot 7.1.182 Peak output power

Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



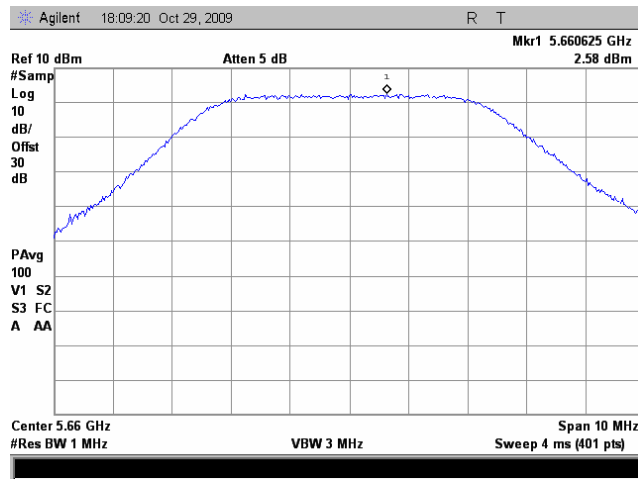


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

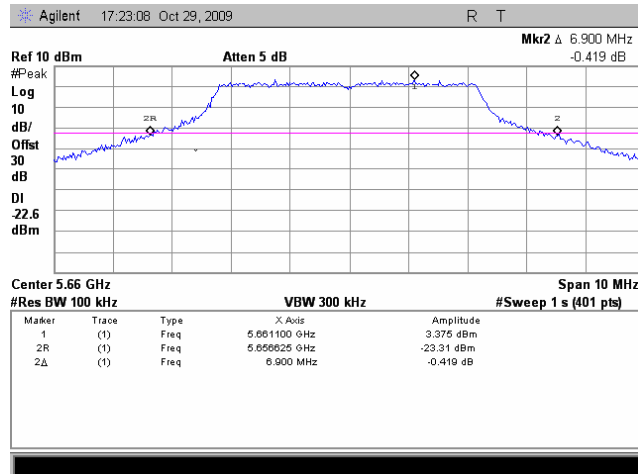
Plot 7.1.183 Peak spectral power density

Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



Plot 7.1.184 The 26 dB emission bandwidth

Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps





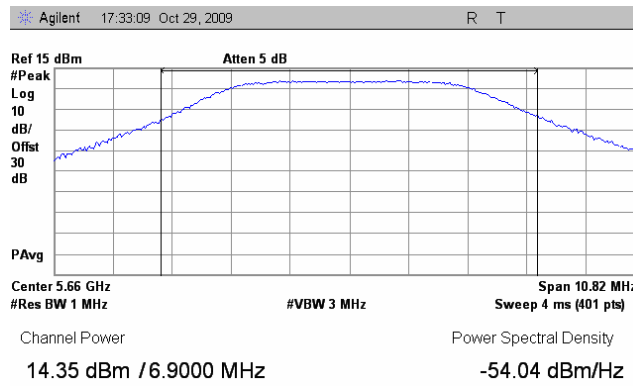


HERMON LABORATORIES

<b>Test specification:</b>	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

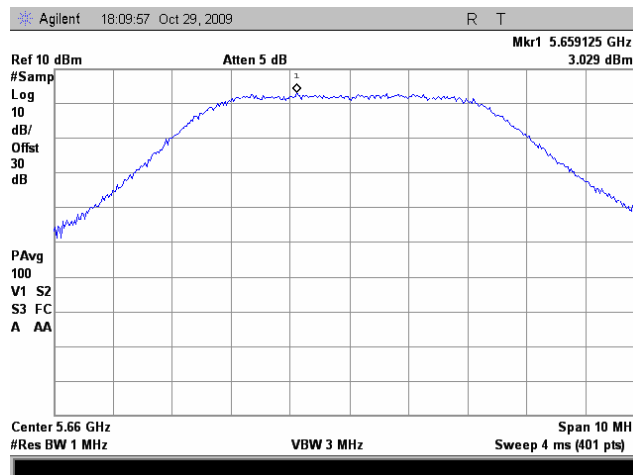
Plot 7.1.185 Peak output power

Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



Plot 7.1.186 Peak spectral power density

Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



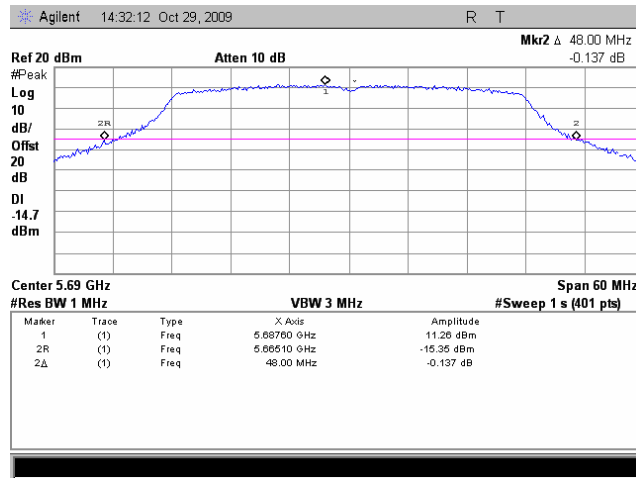


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

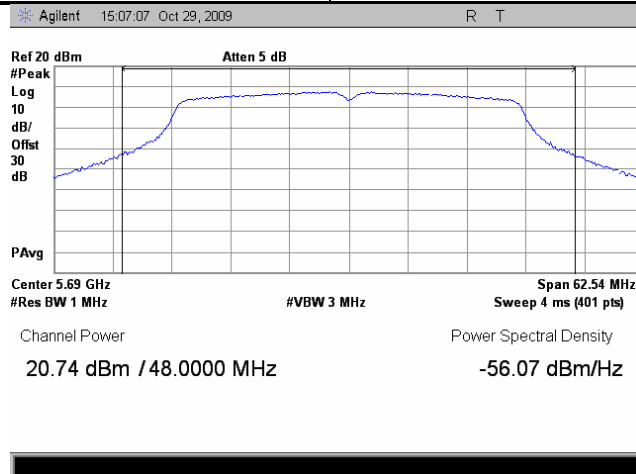
Plot 7.1.187 The 26 dB emission bandwidth

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.188 Peak output power

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



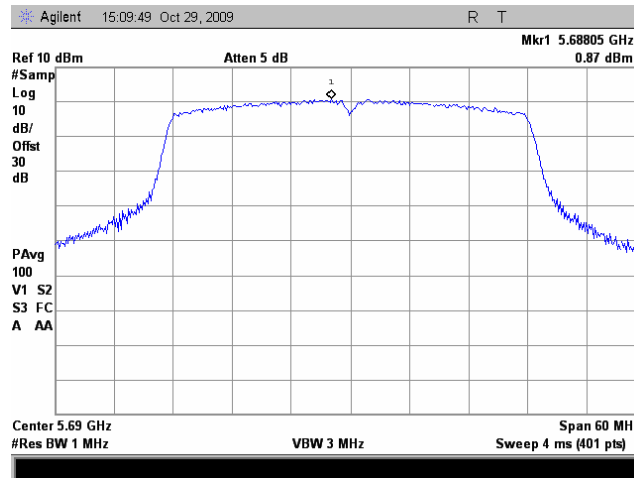


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

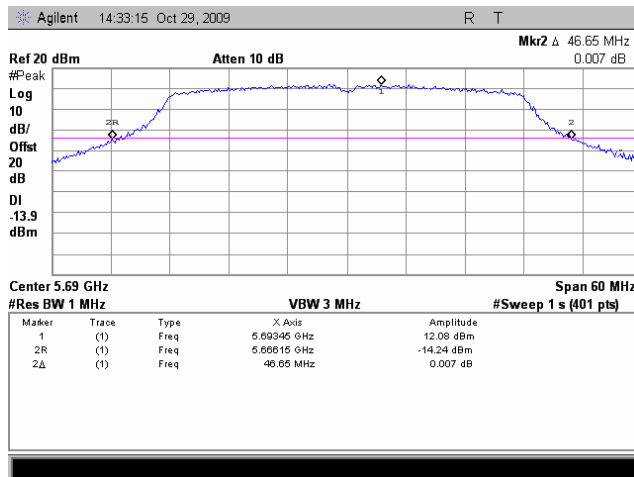
Plot 7.1.189 Peak spectral power density

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



Plot 7.1.190 The 26 dB emission bandwidth

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band





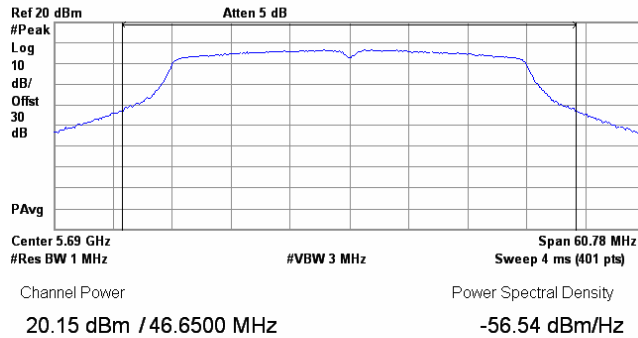
HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

Plot 7.1.191 Peak output power

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band

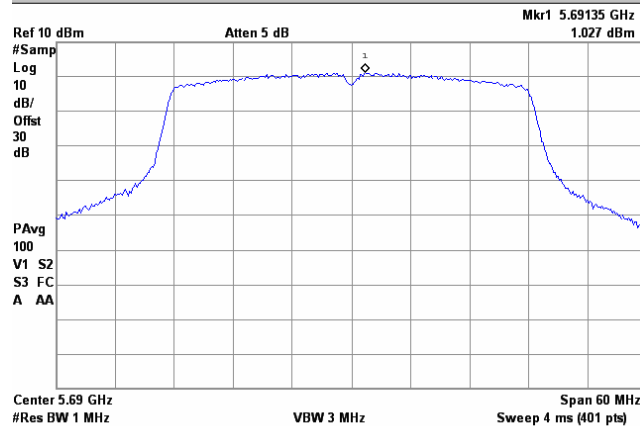
Agilent 15:06:16 Oct 29, 2009 R T



Plot 7.1.192 Peak spectral power density

Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band

Agilent 15:11:48 Oct 29, 2009 R T



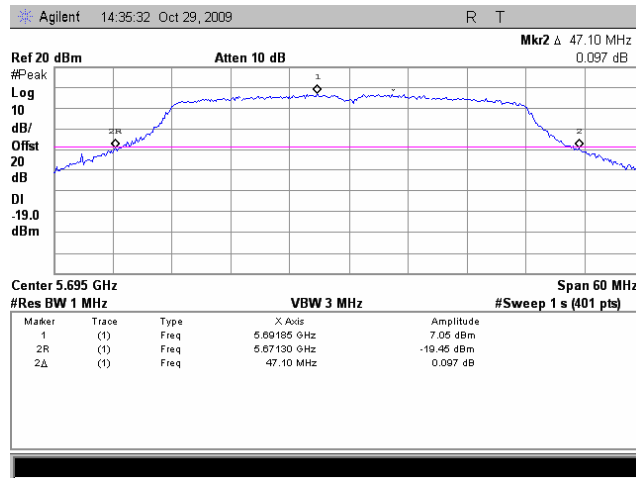


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

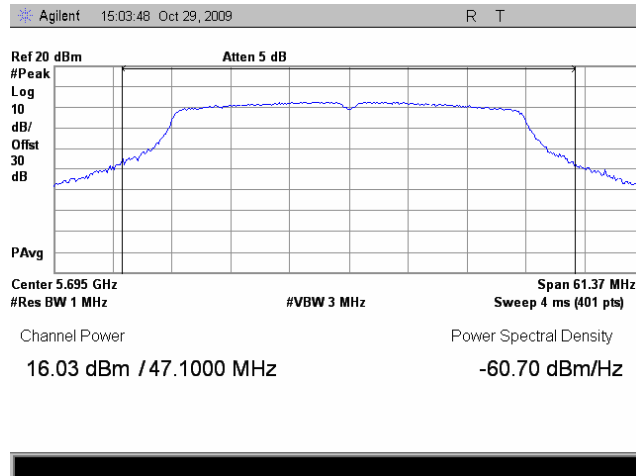
Plot 7.1.193 The 26 dB emission bandwidth

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.194 Peak output power

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



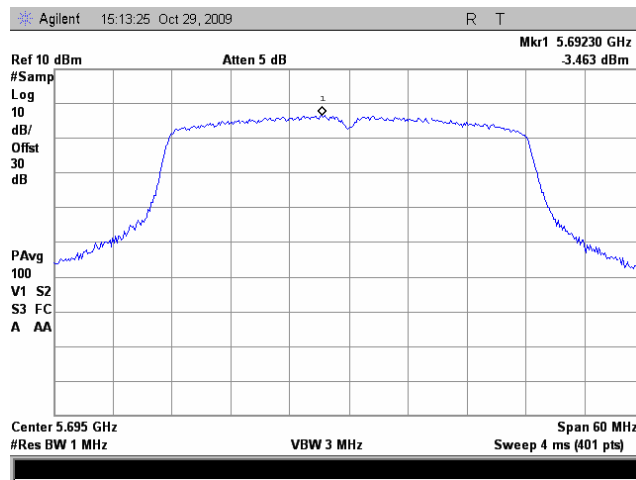


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

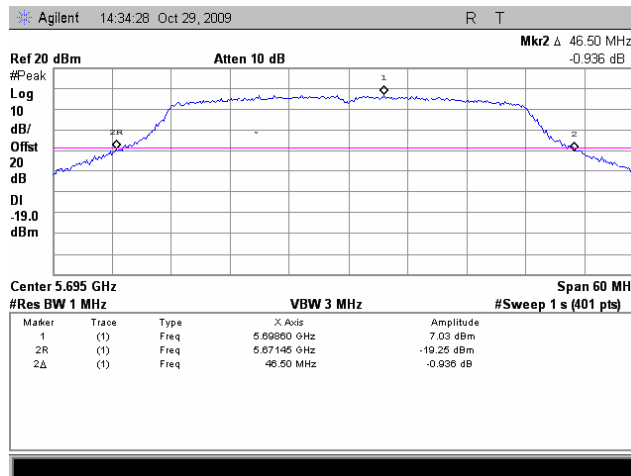
Plot 7.1.195 Peak spectral power density

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



Plot 7.1.196 The 26 dB emission bandwidth

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



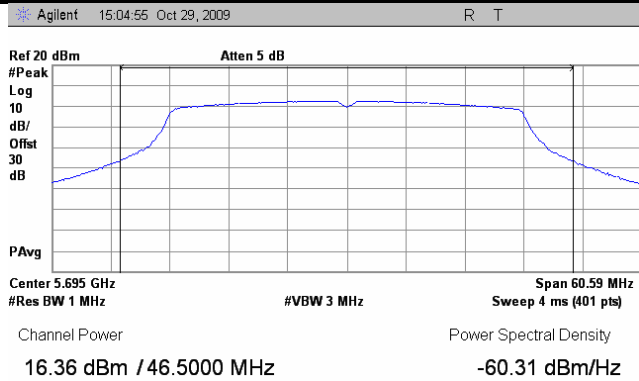


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<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

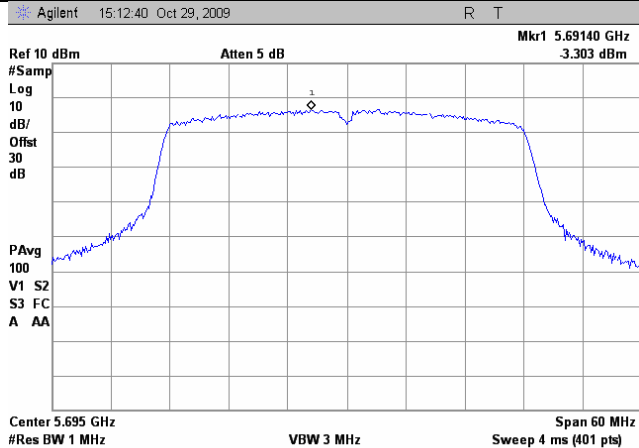
Plot 7.1.197 Peak output power

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



Plot 7.1.198 Peak spectral power density

Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge

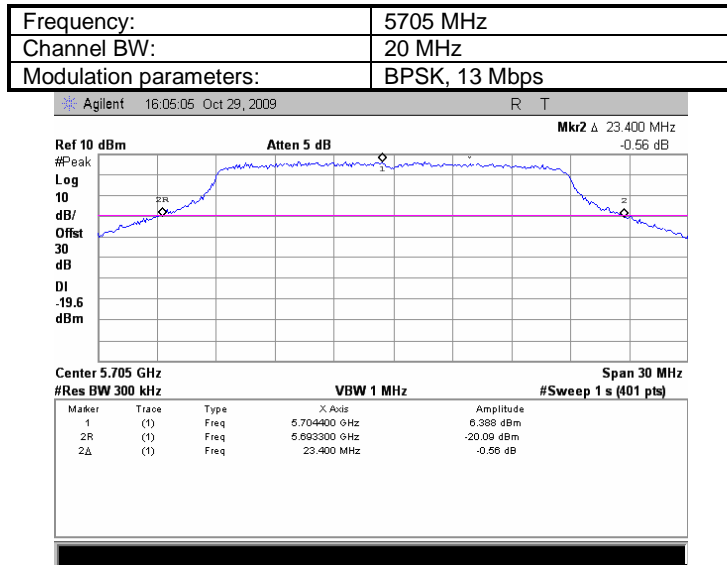




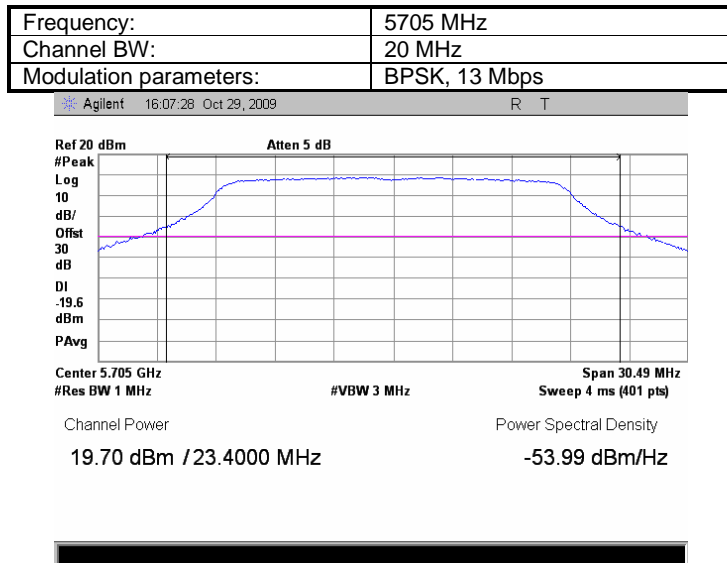
HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

Plot 7.1.199 The 26 dB emission bandwidth



Plot 7.1.200 Peak output power





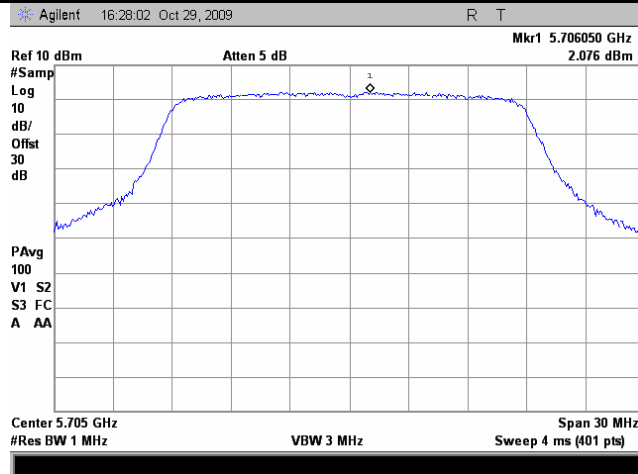


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

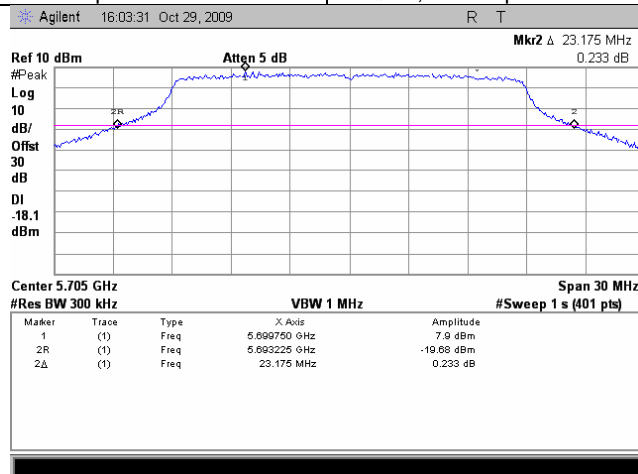
Plot 7.1.201 Peak spectral power density

Frequency:	5705 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



Plot 7.1.202 The 26 dB emission bandwidth

Frequency:	5705 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



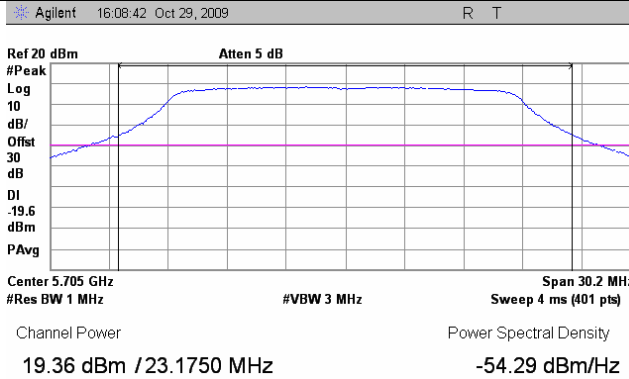


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

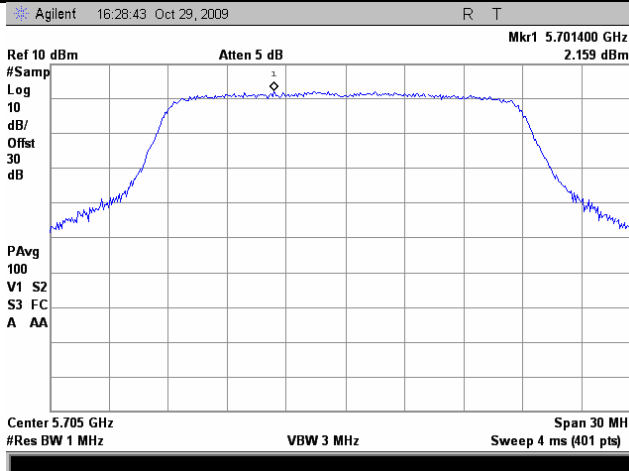
Plot 7.1.203 Peak output power

Frequency:	5705 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



Plot 7.1.204 Peak spectral power density

Frequency:	5705 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



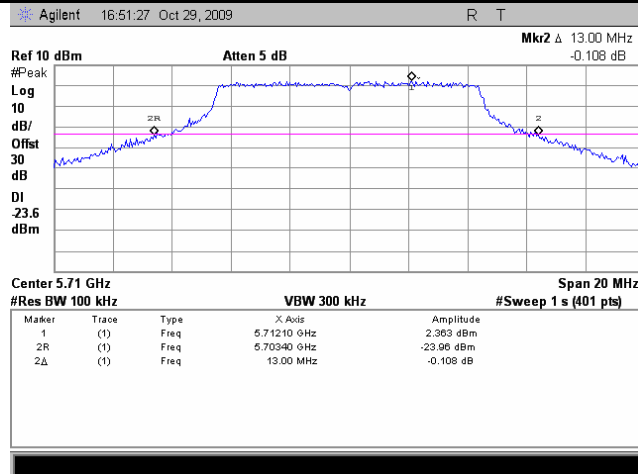


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

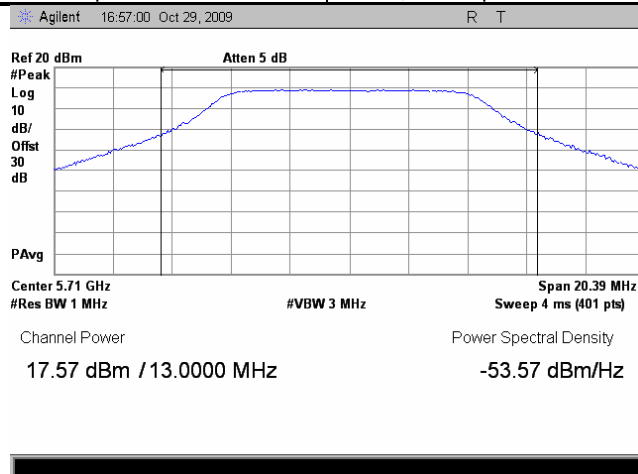
Plot 7.1.205 The 26 dB emission bandwidth

<b>Frequency:</b>	5710 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	BPSK, 6.5 Mbps



Plot 7.1.206 Peak output power

<b>Frequency:</b>	5710 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	BPSK, 6.5 Mbps



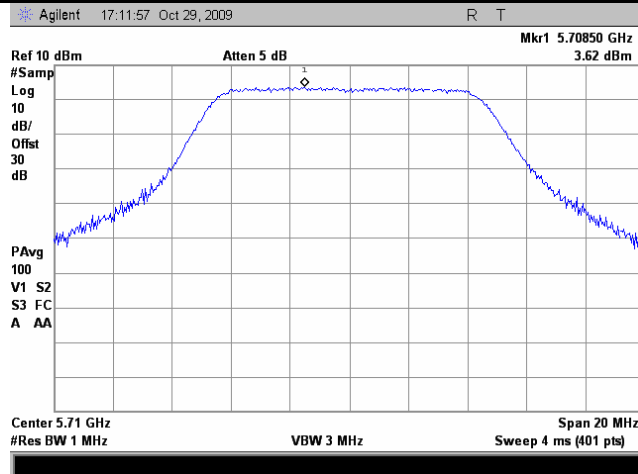


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 10/26/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

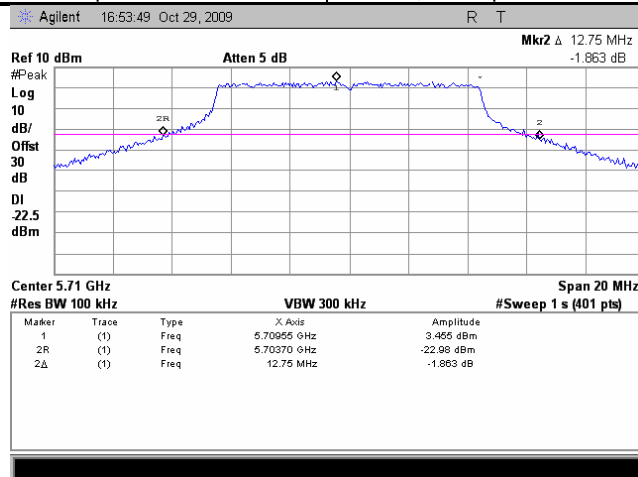
Plot 7.1.207 Peak spectral power density

<b>Frequency:</b>	5710 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	BPSK, 6.5 Mbps



Plot 7.1.208 The 26 dB emission bandwidth

<b>Frequency:</b>	5710 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	64QAM, 65 Mbps





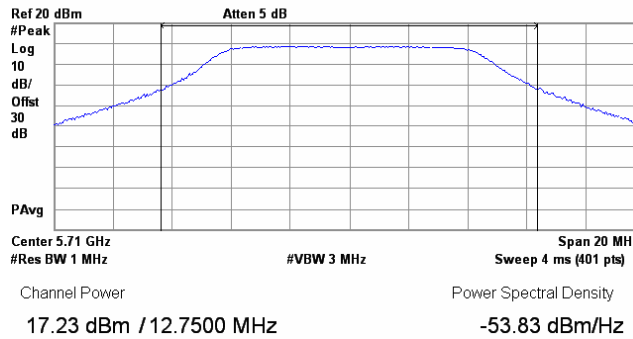
HERMON LABORATORIES

<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

Plot 7.1.209 Peak output power

Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps

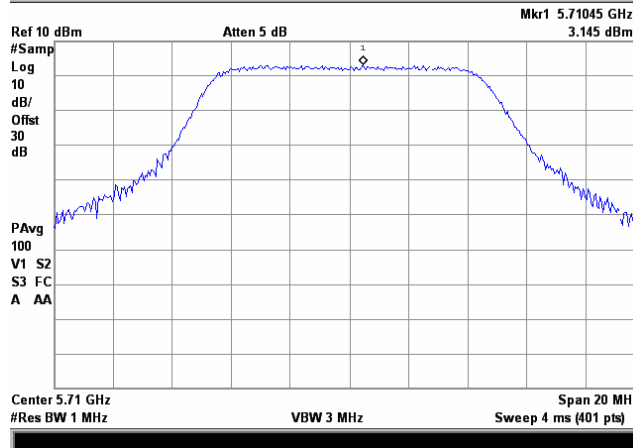
Agilent 16:55:52 Oct 29, 2009 R T



Plot 7.1.210 Peak spectral power density

Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps

Agilent 17:12:38 Oct 29, 2009 R T



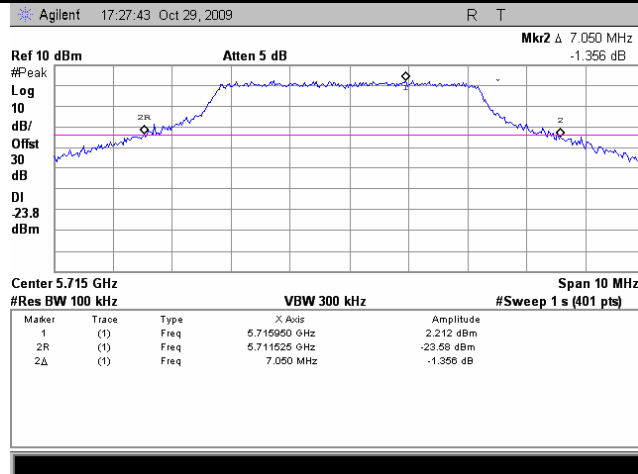


HERMON LABORATORIES

<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

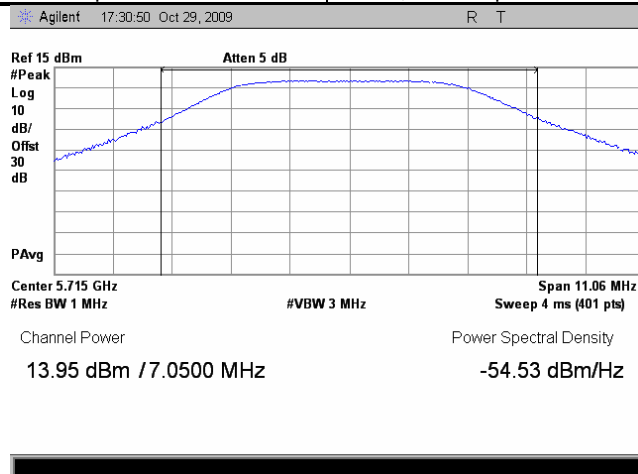
Plot 7.1.211 The 26 dB emission bandwidth

Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



Plot 7.1.212 Peak output power

Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



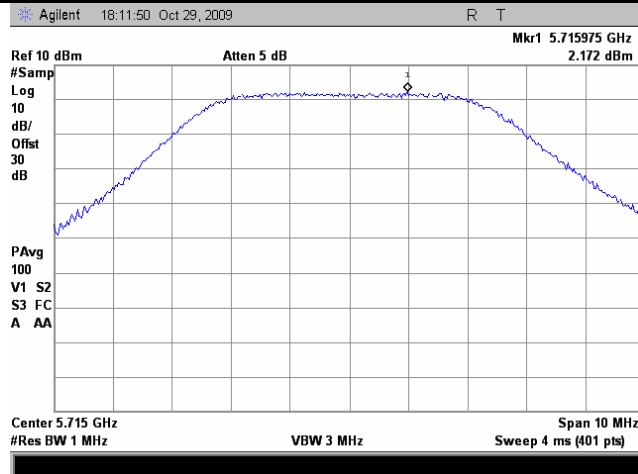


HERMON LABORATORIES

<b>Test specification:</b>		FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

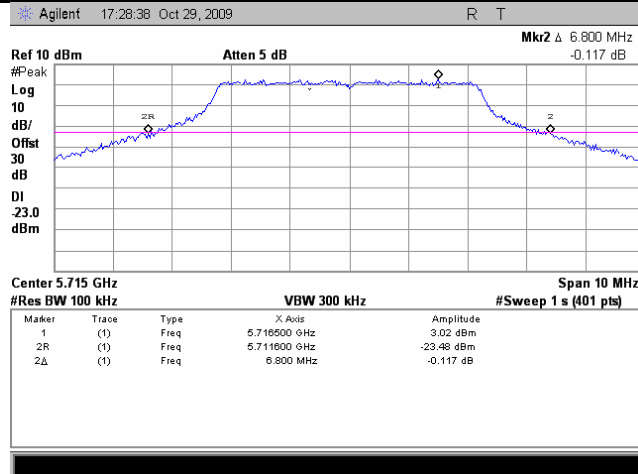
Plot 7.1.213 Peak spectral power density

Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



Plot 7.1.214 The 26 dB emission bandwidth

Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



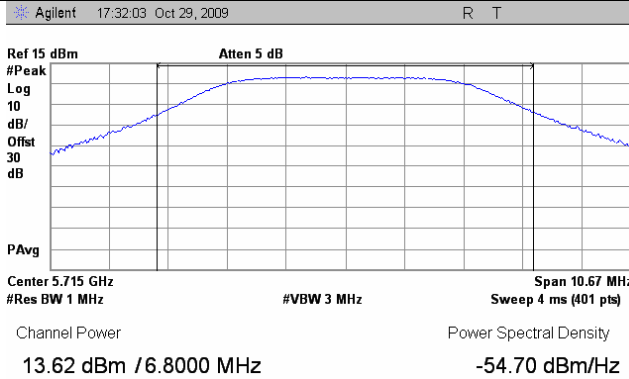


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	10/26/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1008 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

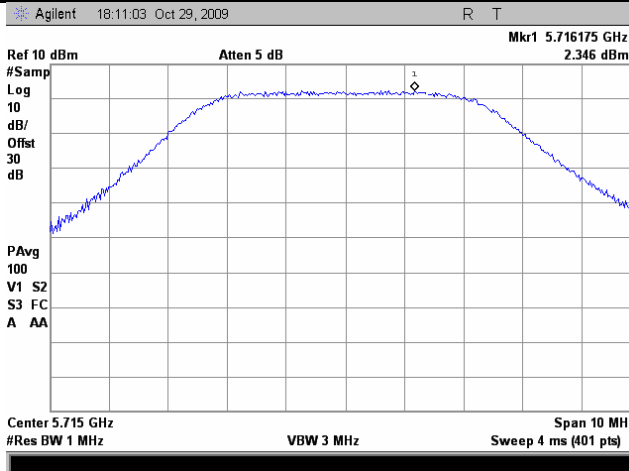
Plot 7.1.215 Peak output power

Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



Plot 7.1.216 Peak spectral power density

Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps







<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b>			

## 7.2 Ratio of the peak excursion of the modulation envelope to the peak transmit power

### 7.2.1 General

This test was performed to measure the ratio of the peak excursion of the modulation envelope to the peak transmit power at RF antenna connector. Specification test limits are given in Table 7.2.1.

Table 7.2.1 Peak excursion limits

Assigned frequency, MHz	Maximum peak excursion, dB/MHz
5470 - 5750	13.0

### 7.2.2 Test procedure

7.2.2.1 The EUT was set up as shown in Figure 7.2.1, energized and its proper operation was checked.

7.2.2.2 The EUT was adjusted to produce maximum available to end user RF output power.

7.2.2.3 The measurements were performed in continuous transmission mode of operation for carrier (channel) frequency at low and high edges and at the middle of the frequency range.

The maximum peak excursion of modulation envelope was measured as a difference between 2 traces.

7.2.2.4 The test results were recorded in Table 7.2.2 to Table 7.2.7 and shown in the associated plots.

Figure 7.2.1 Ratio of peak excursion test setup





<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

Table 7.2.2 Peak excursion test results

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
DETECTOR USED: 1-st trace : Peak, Max Hold  
2-nd trace : Peak, 100 Power Averaging  
TRANSMITTER OUTPUT POWER: 6.73 dBm  
RESOLUTION BANDWIDTH: 1 MHz  
VIDEO BANDWIDTH: 3 MHz

Frequency, MHz	Bit Rate, MBps	1-st trace, dBm	2-nd trace, dBm	Peak excursion, dB	Limit, dB	Margin, dB	Verdict
<b>Low channel In-Band</b>							
5505	27	-5.67	-11.45	5.78	13.0	-7.22	Pass
5505	270	-5.49	-10.31	4.82	13.0	-8.18	Pass
<b>Low channel</b>							
5500	27	-8.18	-13.60	5.42	13.0	-7.58	Pass
5500	270	-7.89	-12.91	5.02	13.0	-7.98	Pass
<b>First mid channel In-Band</b>							
5565	27	-6.21	-10.65	4.44	13.0	-8.56	Pass
5565	270	-5.95	-10.79	4.84	13.0	-8.16	Pass
<b>First mid channel</b>							
5570	27	-8.45	-14.46	6.01	13.0	-6.99	Pass
5570	270	-8.73	-14.22	5.49	13.0	-7.51	Pass
<b>Second mid channel (for IC only) In-Band</b>							
5685	27	-7.89	-12.50	4.61	13.0	-8.39	Pass
5685	270	-7.78	-13.09	5.31	13.0	-7.69	Pass
<b>Second mid channel</b>							
5680	27	-10.67	-15.37	4.7	13.0	-8.3	Pass
5680	270	-10.26	-15.39	5.13	13.0	-7.87	Pass
<b>High channel In-Band</b>							
5690	27	-7.67	-12.21	4.54	13.0	-8.46	Pass
5690	270	-7.64	-12.43	4.79	13.0	-8.21	Pass
<b>High channel</b>							
5695	27	-10.41	-15.74	5.33	13.0	-7.67	Pass
5695	270	-10.48	-15.39	4.91	13.0	-8.09	Pass

## Reference numbers of test equipment used

HL 2909	HL 2952	HL 3442				
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Full description is given in Appendix A.

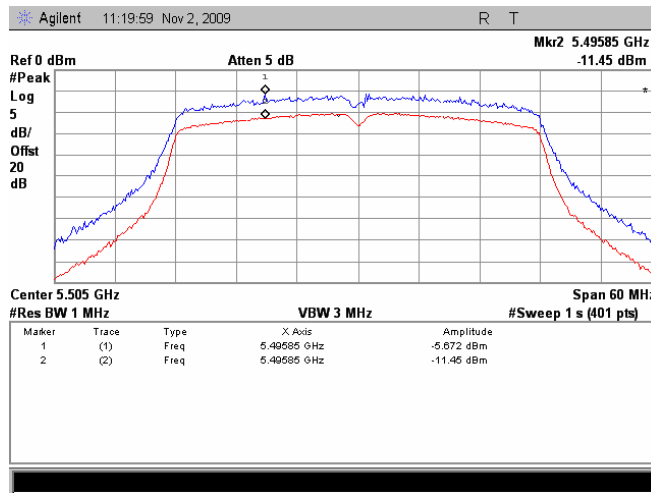


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009	<b>Relative Humidity:</b>	49 %
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Power Supply:</b>	120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

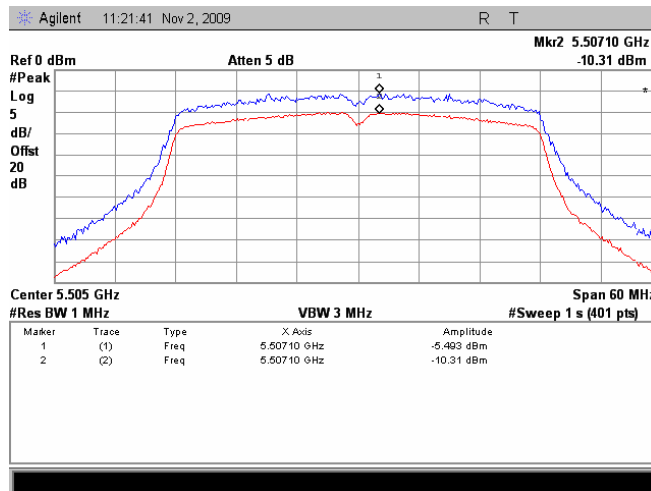
**Plot.7.2.1 Peak excursion measurement**

Frequency: 5505MHz  
Channel BW: 40 MHz  
Modulation parameters: BPSK; 27 MBps



**Plot.7.2.2 Peak excursion measurement**

Frequency: 5505MHz  
Channel BW: 40 MHz  
Modulation parameters: 64QAM; 270 MBps

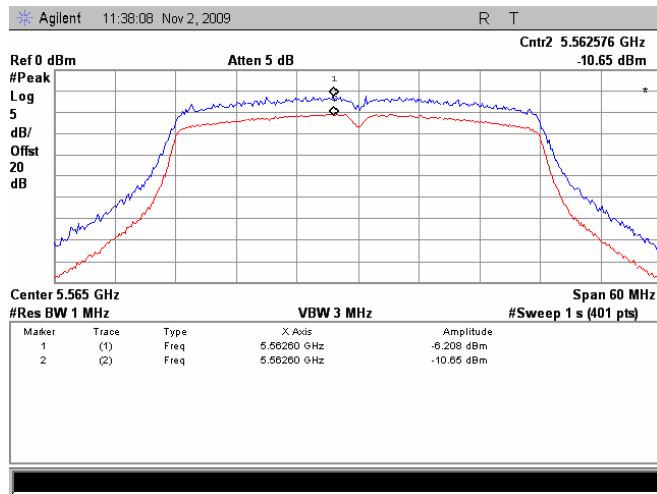




<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

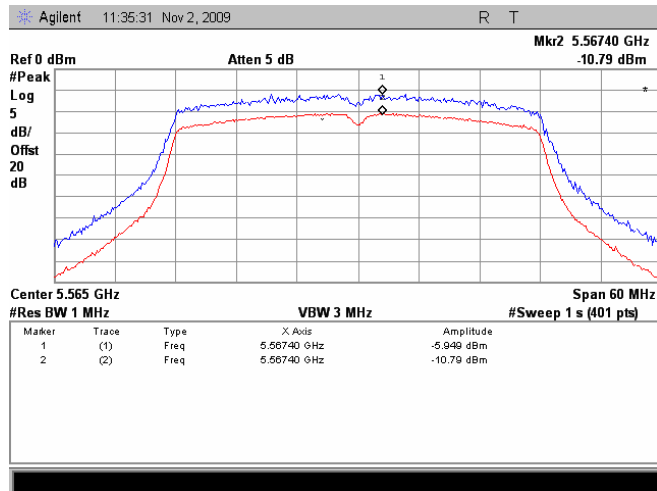
Plot 7.2.3 Peak excursion measurement

<b>Frequency:</b>	5565MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	BPSK; 27 MBps



Plot 7.2.4 Peak excursion measurement

<b>Frequency:</b>	5565MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	64QAM; 270 MBps



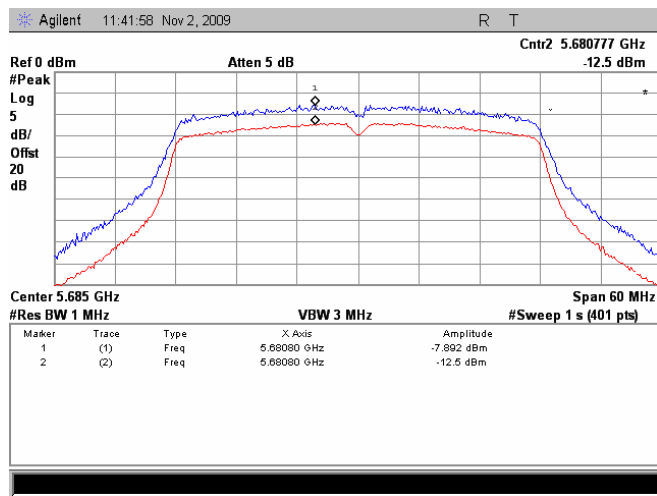


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

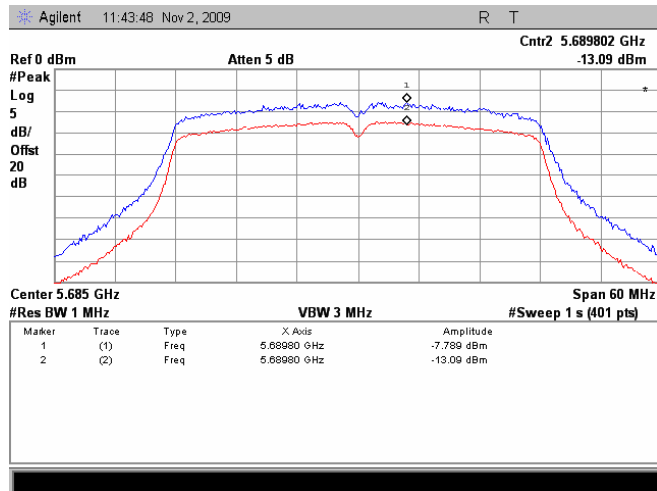
Plot 7.2.5 Peak excursion measurement

Frequency:	5685MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK; 27 MBps



Plot 7.2.6 Peak excursion measurement

Frequency:	5685MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



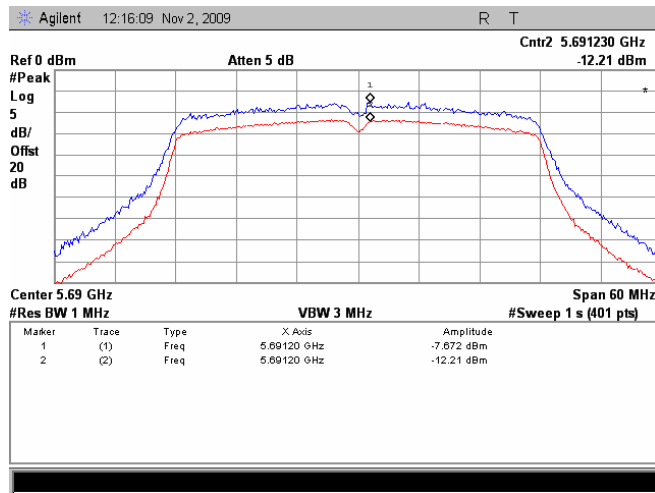


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/02/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

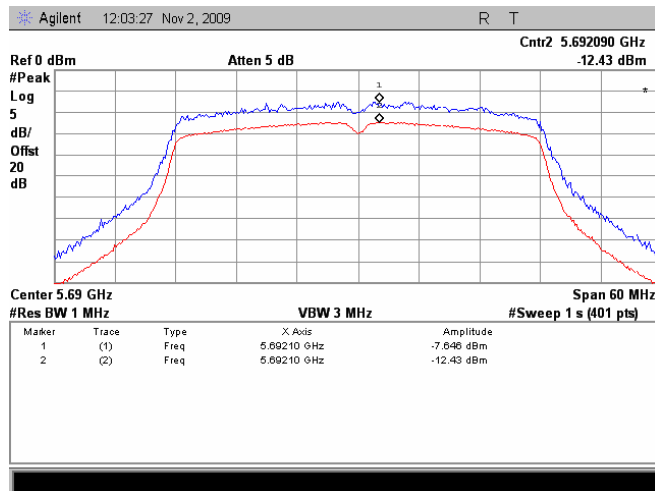
Plot.7.2.7 Peak excursion measurement

Frequency: 5690MHz  
Channel BW: 40 MHz  
Modulation parameters: BPSK; 27 MBps



Plot.7.2.8 Peak excursion measurement

Frequency: 5690MHz  
Channel BW: 40 MHz  
Modulation parameters: 64QAM; 270 MBps



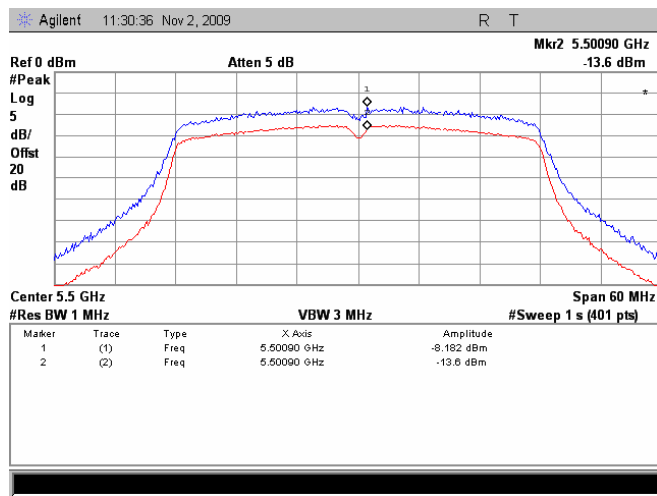


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

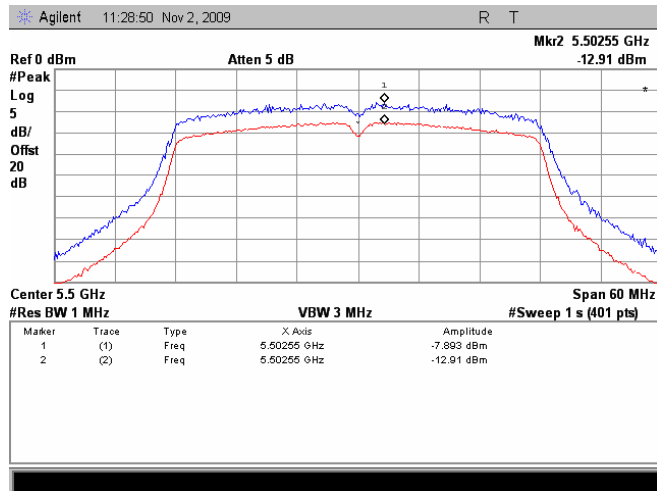
Plot 7.2.9 Peak excursion measurement

Frequency:	5500MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK; 27 MBps



Plot 7.2.10 Peak excursion measurement

Frequency:	5500MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



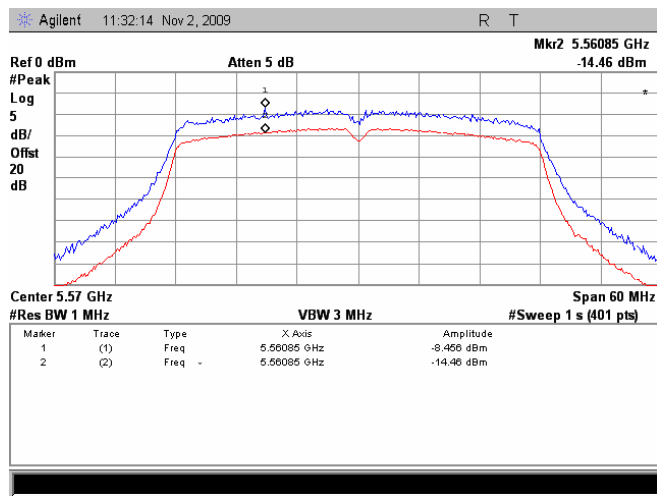


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/02/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

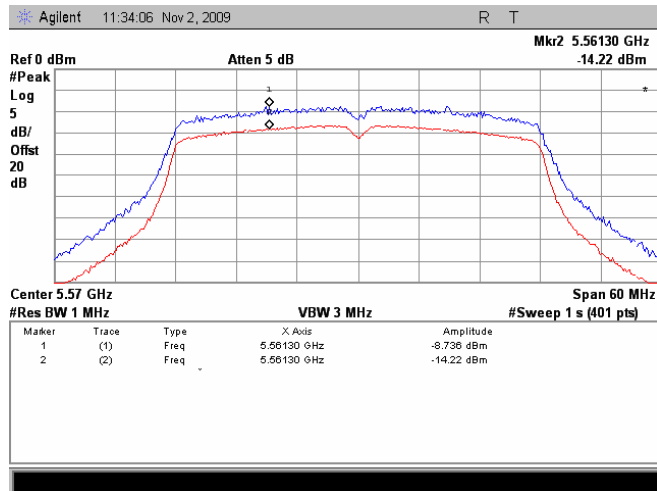
Plot 7.2.11 Peak excursion measurement

<b>Frequency:</b>	5570MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	BPSK; 27 MBps



Plot 7.2.12 Peak excursion measurement

<b>Frequency:</b>	5570MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	64QAM; 270 MBps





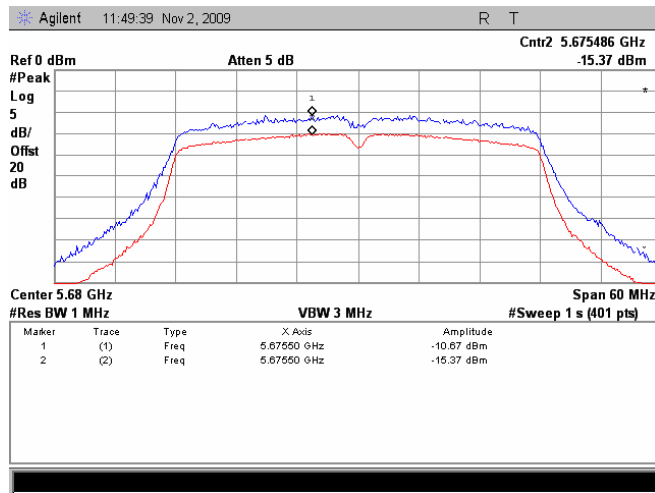


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/02/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

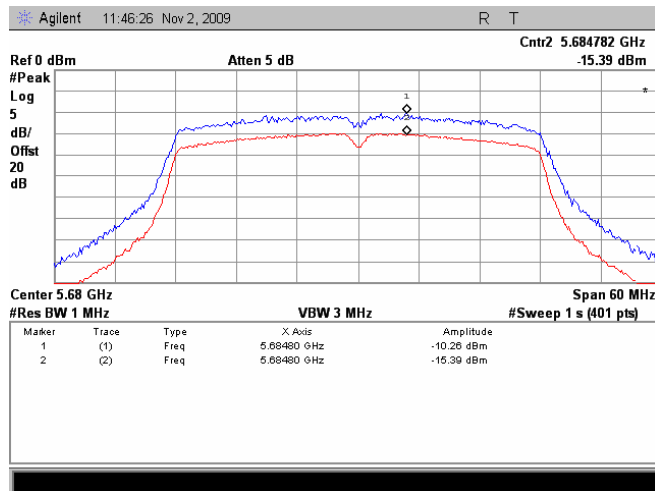
Plot.7.2.13 Peak excursion measurement

Frequency: 5680MHz  
Channel BW: 40 MHz  
Modulation parameters: BPSK; 27 MBps



Plot.7.2.14 Peak excursion measurement

Frequency: 5680MHz  
Channel BW: 40 MHz  
Modulation parameters: 64QAM; 270 MBps



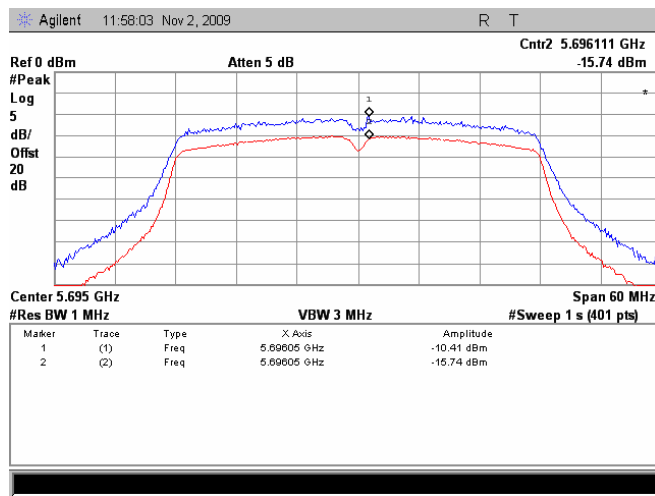


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/02/2009			
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain, 40 MHz EBW			

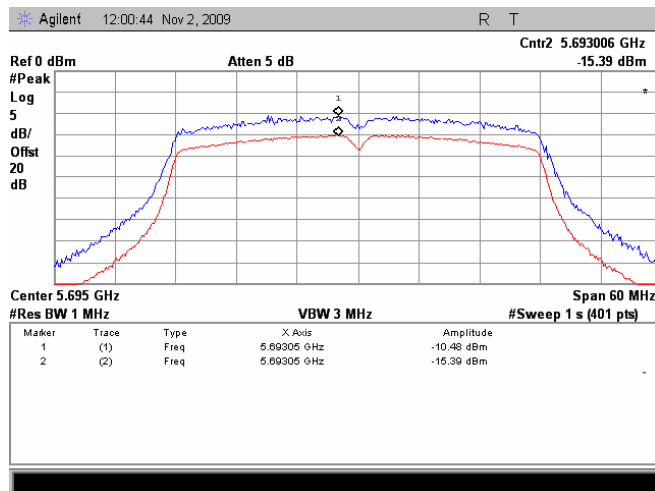
Plot 7.2.15 Peak excursion measurement

Frequency:	5695MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK; 27 MBps



Plot 7.2.16 Peak excursion measurement

Frequency:	5695MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps





<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

**Table 7.2.3 Peak excursion test results**

ASSIGNED FREQUENCY RANGE: 5470-5725 MHz  
 DETECTOR USED: 1-st trace : Peak, Max Hold  
 2-nd trace : Peak, 100 Power Averaging  
 TRANSMITTER OUTPUT POWER: 1.72 dBm  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz

Frequency, MHz	Bit Rate, MBps	1-st trace, dBm	2-nd trace, dBm	Peak excursion, dB	Limit, dB	Margin, dB	Verdict
<b>Low channel In-Band</b>							
5505	27	-10.72	-15.87	5.15	13.0	-7.85	Pass
5505	270	-10.06	-15.24	5.18	13.0	-7.82	Pass
<b>Low channel</b>							
5500	27	-12.66	-17.89	5.23	13.0	-7.77	Pass
5500	270	-12.42	-17.42	5.00	13.0	-8.00	Pass
<b>First mid channel In-Band</b>							
5565	27	-11.35	-16.15	4.80	13.0	-8.20	Pass
5565	270	-10.40	-15.30	4.90	13.0	-8.10	Pass
<b>First mid channel</b>							
5570	27	-13.78	-18.40	4.62	13.0	-8.38	Pass
5570	270	-13.19	-18.85	5.66	13.0	-7.34	Pass
<b>Second mid channel (for IC only) In-Band</b>							
5685	27	-12.45	-17.39	4.94	13.0	-8.06	Pass
5685	270	-11.93	-16.83	4.90	13.0	-8.10	Pass
<b>Second mid channel</b>							
5680	27	-15.13	-20.18	5.05	13.0	-7.95	Pass
5680	270	-14.77	-19.73	4.96	13.0	-8.04	Pass
<b>High channel In-Band</b>							
5690	27	-12.74	-17.51	4.77	13.0	-8.23	Pass
5690	270	-11.94	-16.84	4.90	13.0	-8.10	Pass
<b>High channel</b>							
5695	27	-14.78	-20.37	5.59	13.0	-7.41	Pass
5695	270	-14.77	-19.59	4.82	13.0	-8.18	Pass

**Reference numbers of test equipment used**

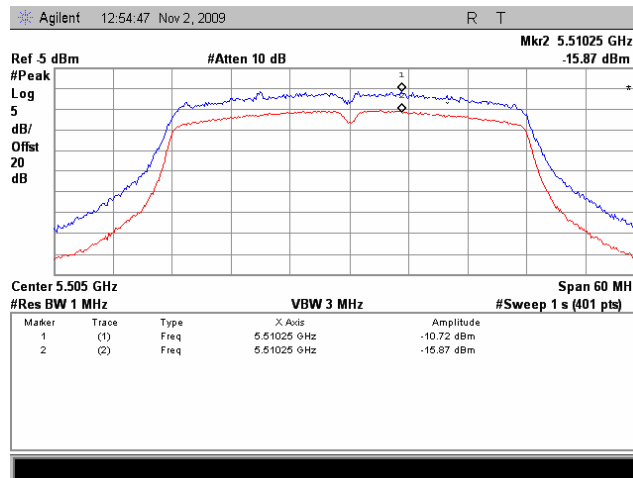
HL 2909	HL 2952	HL 3442				
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Full description is given in Appendix A.

<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

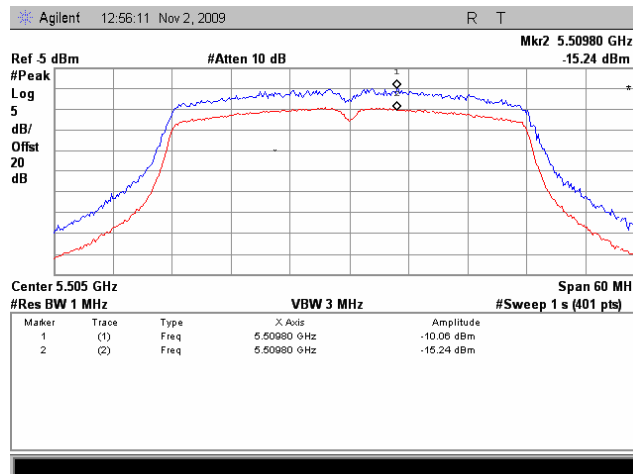
**Plot.7.2.17 Peak excursion measurement**

Frequency: 5505MHz  
Channel BW: 40 MHz  
Modulation parameters: BPSK; 27 MBps



**Plot.7.2.18 Peak excursion measurement**

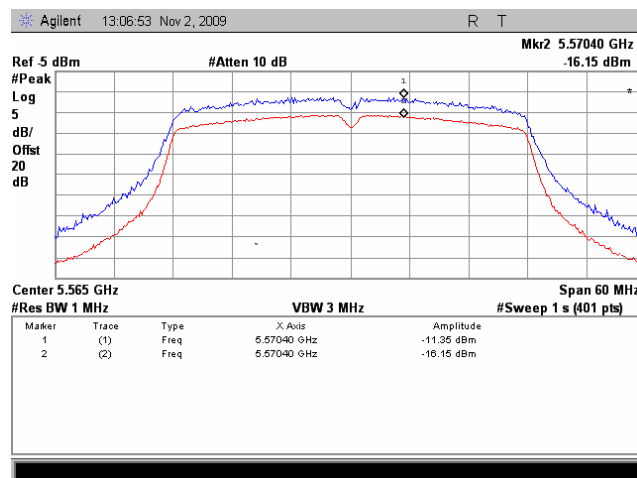
Frequency: 5505MHz  
Channel BW: 40 MHz  
Modulation parameters: 64QAM; 270 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

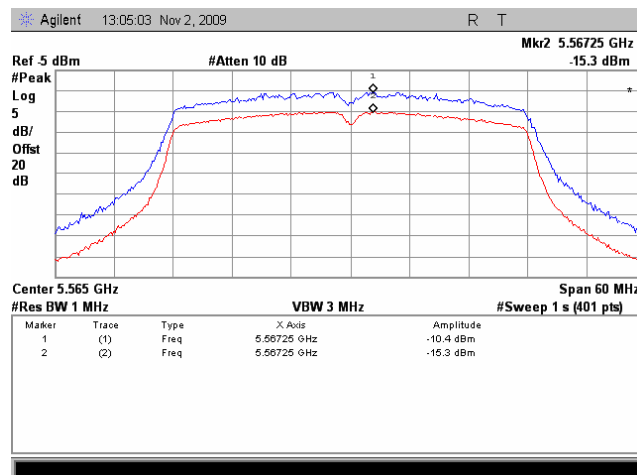
**Plot 7.2.19 Peak excursion measurement**

<b>Frequency:</b>	5565MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	BPSK; 27 MBps



**Plot 7.2.20 Peak excursion measurement**

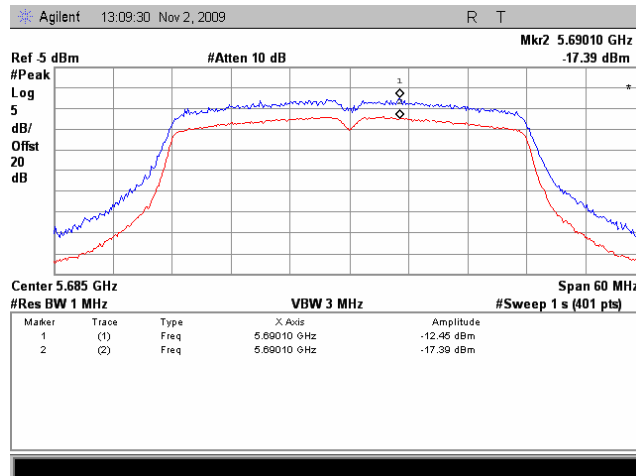
<b>Frequency:</b>	5565MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	64QAM; 270 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

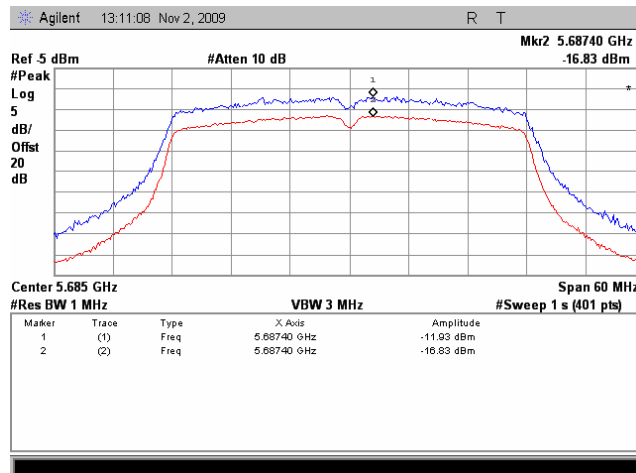
**Plot 7.2.21 Peak excursion measurement**

<b>Frequency:</b>	5685MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	BPSK; 27 MBps



**Plot 7.2.22 Peak excursion measurement**

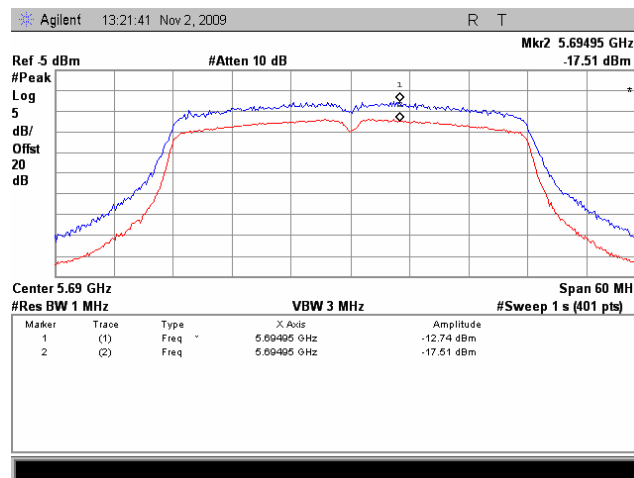
<b>Frequency:</b>	5685MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	64QAM; 270 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

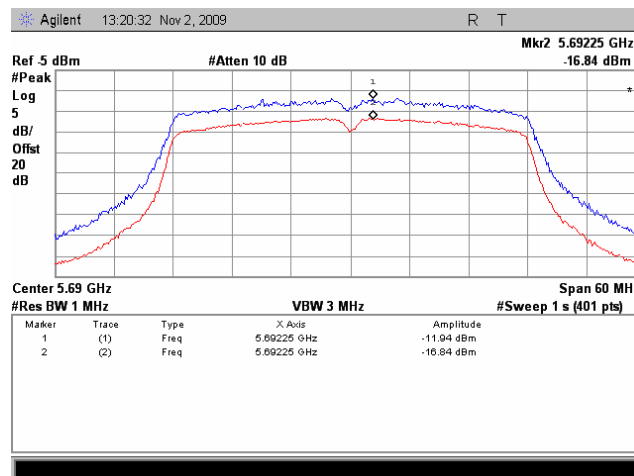
**Plot.7.2.23 Peak excursion measurement**

Frequency: 5690MHz  
Channel BW: 40 MHz  
Modulation parameters: BPSK; 27 MBps



**Plot.7.2.24 Peak excursion measurement**

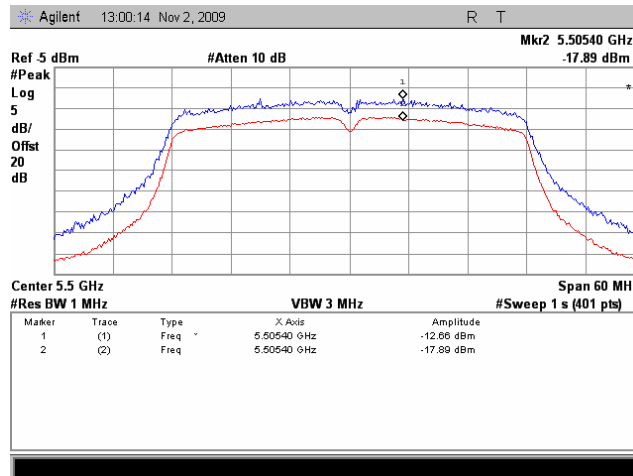
Frequency: 5690MHz  
Channel BW: 40 MHz  
Modulation parameters: 64QAM; 270 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

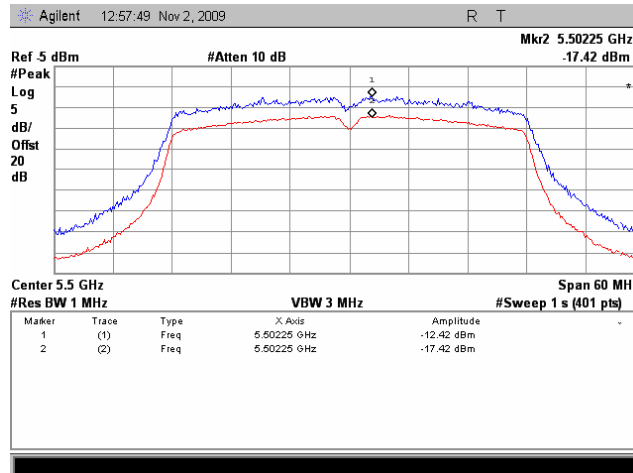
**Plot 7.2.25 Peak excursion measurement**

<b>Frequency:</b>	5500MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	BPSK; 27 MBps



**Plot 7.2.26 Peak excursion measurement**

<b>Frequency:</b>	5500MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	64QAM; 270 MBps

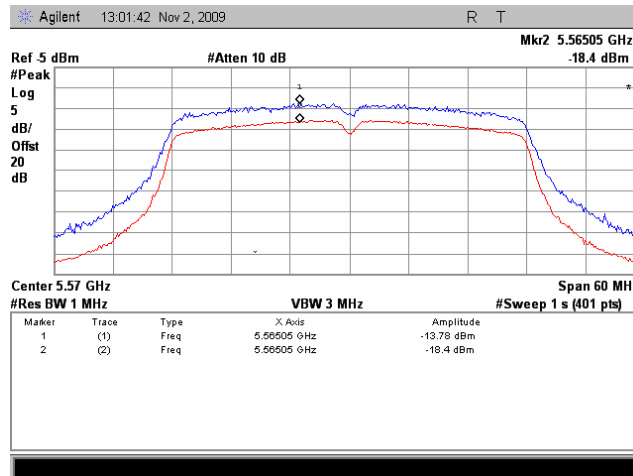




<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

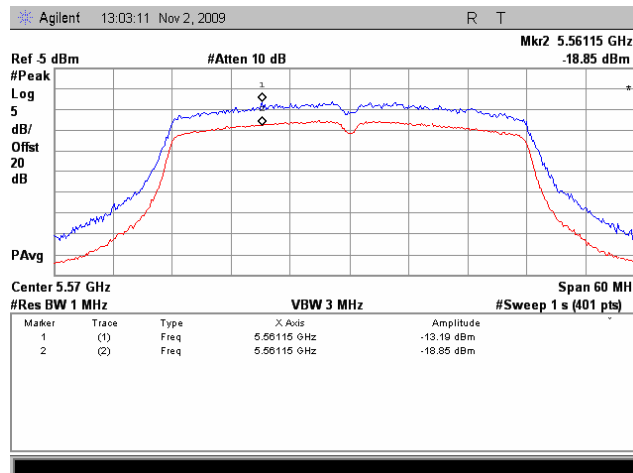
**Plot 7.2.27 Peak excursion measurement**

<b>Frequency:</b>	5570MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	BPSK; 27 MBps



**Plot 7.2.28 Peak excursion measurement**

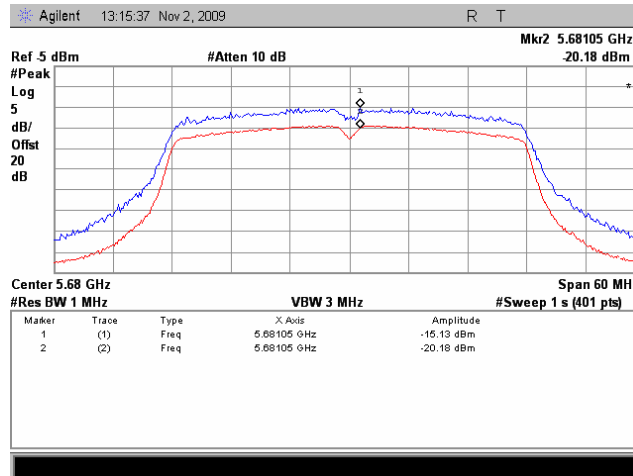
<b>Frequency:</b>	5570MHz
<b>Channel BW:</b>	40 MHz
<b>Modulation parameters:</b>	64QAM; 270 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

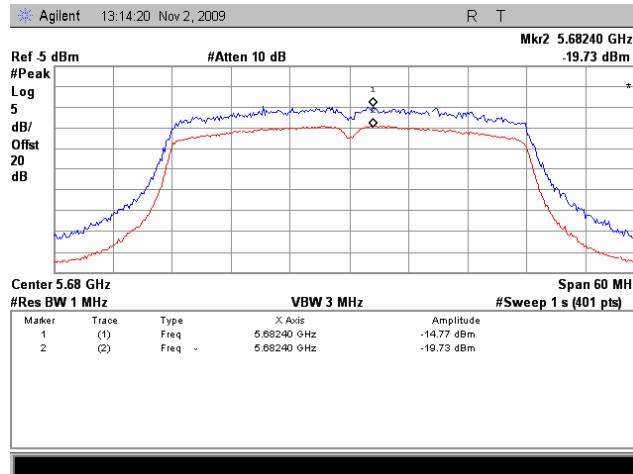
**Plot.7.2.29 Peak excursion measurement**

Frequency: 5680MHz  
Channel BW: 40 MHz  
Modulation parameters: BPSK; 27 MBps



**Plot.7.2.30 Peak excursion measurement**

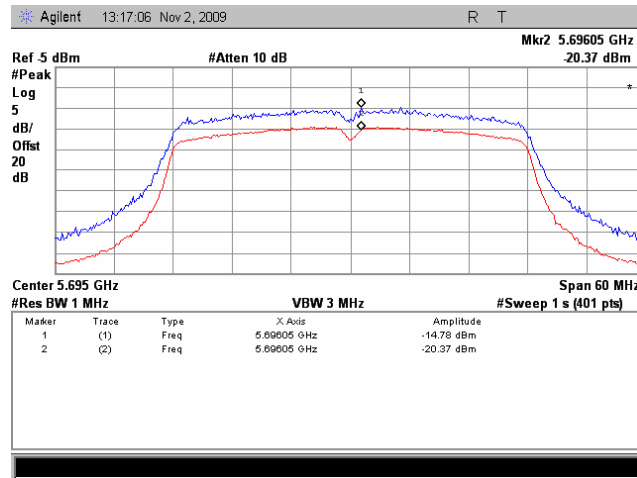
Frequency: 5680MHz  
Channel BW: 40 MHz  
Modulation parameters: 64QAM; 270 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain, 40 MHz EBW			

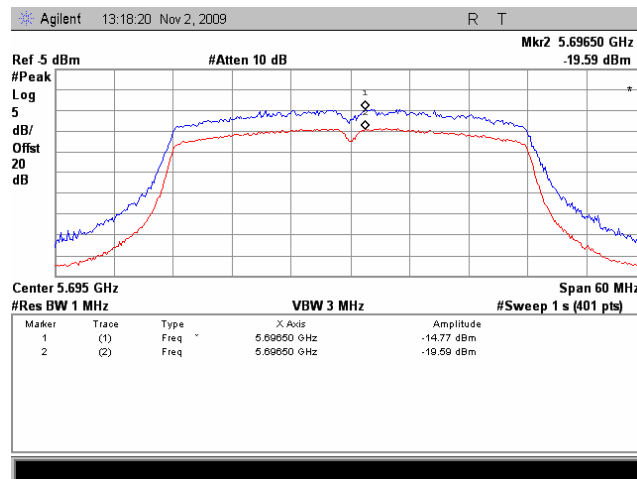
**Plot 7.2.31 Peak excursion measurement**

Frequency:	5695MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK; 27 MBps



**Plot 7.2.32 Peak excursion measurement**

Frequency:	5695MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps





<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

Table 7.2.4 Peak excursion test results

ASSIGNED FREQUENCY: 5470-5725 MHz  
DETECTOR USED: 1-st trace : Peak, Max Hold  
2-nd trace : Peak, 100 Power Averaging  
TRANSMITTER OUTPUT POWER: 15.0 dBm at 40 MHz channel bandwidth In-Band  
11.5 dBm at 40 MHz channel bandwidth Not In-Band  
RESOLUTION BANDWIDTH: 1 MHz  
VIDEO BANDWIDTH: 3 MHz  
EMISSION BANDWIDTH: 40 MHz

Frequency, MHz	Bit Rate, MBps	1-st trace, dBm	2-nd trace, dBm	Peak excursion, dB	Limit, dB	Margin, dB	Verdict
<b>Low channel In-Band</b>							
5505	27	11.50	5.05	6.45	13.0	-6.55	Pass
5505	270	10.32	5.07	5.25	13.0	-7.75	Pass
<b>Low channel</b>							
5500	27	8.14	2.97	5.17	13.0	-7.83	Pass
5500	270	7.28	1.87	5.41	13.0	-7.59	Pass
<b>First mid channel In-Band</b>							
5565	27	11.51	5.46	6.05	13.0	-6.95	Pass
5565	270	11.73	6.21	5.52	13.0	-7.48	Pass
<b>First mid channel</b>							
5570	27	7.80	1.90	5.90	13.0	-7.10	Pass
5570	270	7.97	3.01	4.96	13.0	-8.04	Pass
<b>Second mid channel (for IC only) In-Band</b>							
5685	27	11.58	6.49	5.09	13.0	-7.91	Pass
5685	270	12.16	7.25	4.91	13.0	-8.09	Pass
<b>Second mid channel</b>							
5680	27	7.04	2.18	4.86	13.0	-8.14	Pass
5680	270	7.65	2.84	4.81	13.0	-8.19	Pass
<b>High channel In-Band</b>							
5690	27	11.90	6.36	5.54	13.0	-7.46	Pass
5690	270	11.91	5.80	6.11	13.0	-6.89	Pass
<b>High channel</b>							
5695	27	7.48	2.56	4.92	13.0	-8.08	Pass
5695	270	7.21	2.43	4.78	13.0	-8.22	Pass



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

**Table 7.2.5 Peak excursion test results**

ASSIGNED FREQUENCY: 5470-5725 MHz  
DETECTOR USED: 1-st trace : Peak, Max Hold  
2-nd trace : Peak, 100 Power Averaging  
TRANSMITTER OUTPUT POWER: 17.5 dBm at 20 MHz BW  
RESOLUTION BANDWIDTH: 1 MHz  
VIDEO BANDWIDTH: 3 MHz  
EMISSION BANDWIDTH: 20 MHz

Frequency, MHz	Bit Rate, MBps	1-st trace, dBm	2-nd trace, dBm	Peak excursion, dB	Limit, dB	Margin, dB	Verdict
<b>Low channel</b>							
5490	13	13.28	8.38	4.90	13.0	-8.10	Pass
5490	130	13.63	8.44	5.19	13.0	-7.81	Pass
<b>First mid channel</b>							
5580	13	12.57	7.89	4.68	13.0	-8.32	Pass
5580	130	13.12	7.50	5.62	13.0	-7.38	Pass
<b>Second mid channel</b>							
5670	13	13.66	8.79	4.87	13.0	-8.13	Pass
5670	130	12.84	7.72	5.12	13.0	-7.88	Pass
<b>High channel</b>							
5705	13	13.69	8.87	4.82	13.0	-8.18	Pass
5705	130	13.36	8.40	4.96	13.0	-8.04	Pass

**Table 7.2.6 Peak excursion test results**

ASSIGNED FREQUENCY: 5470-5725 MHz  
DETECTOR USED: 1-st trace : Peak, Max Hold  
2-nd trace : Peak, 100 Power Averaging  
TRANSMITTER OUTPUT POWER: 16.0 dBm at 10 MHz BW  
RESOLUTION BANDWIDTH: 1 MHz  
VIDEO BANDWIDTH: 3 MHz  
EMISSION BANDWIDTH: 10 MHz

Frequency, MHz	Bit Rate, MBps	1-st trace, dBm	2-nd trace, dBm	Peak excursion, dB	Limit, dB	Margin, dB	Verdict
<b>Low channel</b>							
5485	6.5	14.86	9.46	5.40	13.0	-7.60	Pass
5485	65	15.55	10.53	5.02	13.0	-7.98	Pass
<b>First mid channel</b>							
5585	6.5	15.30	10.06	5.24	13.0	-7.76	Pass
5585	65	14.99	10.07	4.92	13.0	-8.08	Pass
<b>Second mid channel</b>							
5665	6.5	15.50	10.14	5.36	13.0	-7.64	Pass
5665	65	15.67	10.70	4.97	13.0	-8.03	Pass
<b>High channel</b>							
5710	6.5	15.04	9.79	5.25	13.0	-7.75	Pass
5710	65	14.50	9.35	5.15	13.0	-7.85	Pass



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

**Table 7.2.7 Peak excursion test results**

ASSIGNED FREQUENCY: 5470-5725 MHz  
DETECTOR USED: 1-st trace : Peak, Max Hold  
2-nd trace : Peak, 100 Power Averaging  
TRANSMITTER OUTPUT POWER: 13.0 dBm at 5 MHz BW  
RESOLUTION BANDWIDTH: 1 MHz  
VIDEO BANDWIDTH: 3 MHz  
EMISSION BANDWIDTH: 5 MHz

Frequency, MHz	Bit Rate, MBps	1-st trace, dBm	2-nd trace, dBm	Peak excursion, dB	Limit, dB	Margin, dB	Verdict
<b>Low channel</b>							
5480	3.25	14.44	9.26	5.18	13.0	-7.82	Pass
5480	32.5	14.73	9.68	5.05	13.0	-7.95	Pass
<b>First mid channel</b>							
5590	3.25	14.57	9.06	5.51	13.0	-7.49	Pass
5590	32.5	14.25	9.08	5.17	13.0	-7.83	Pass
<b>Second mid channel</b>							
5660	3.25	14.22	9.06	5.16	13.0	-7.84	Pass
5660	32.5	14.10	9.21	4.89	13.0	-8.11	Pass
<b>High channel</b>							
5715	3.25	13.64	8.46	5.18	13.0	-7.82	Pass
5715	32.5	13.93	8.77	5.16	13.0	-7.84	Pass

**Reference numbers of test equipment used**

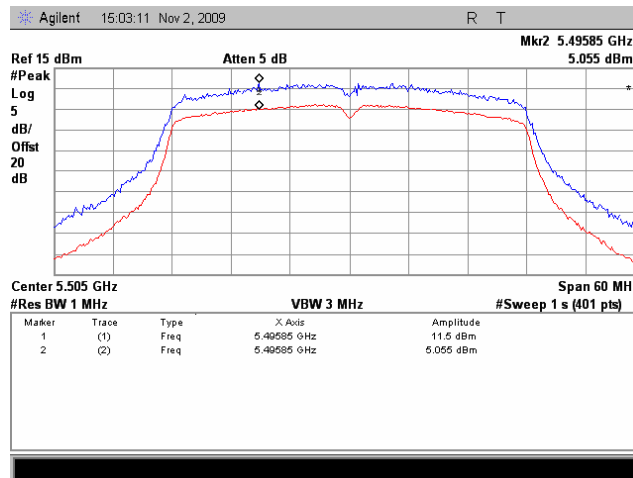
HL 2909	HL 2952	HL 3442					
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Full description is given in Appendix A.

<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

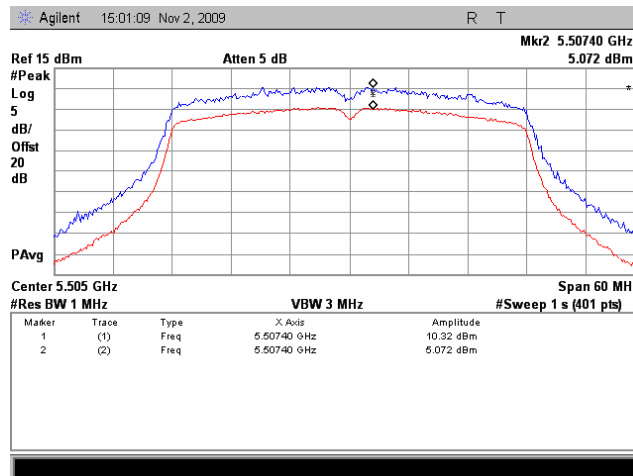
**Plot.7.2.33 Peak excursion measurement**

Frequency: 5505MHz  
Channel BW: 40 MHz  
Modulation parameters: BPSK; 27 MBps



**Plot.7.2.34 Peak excursion measurement**

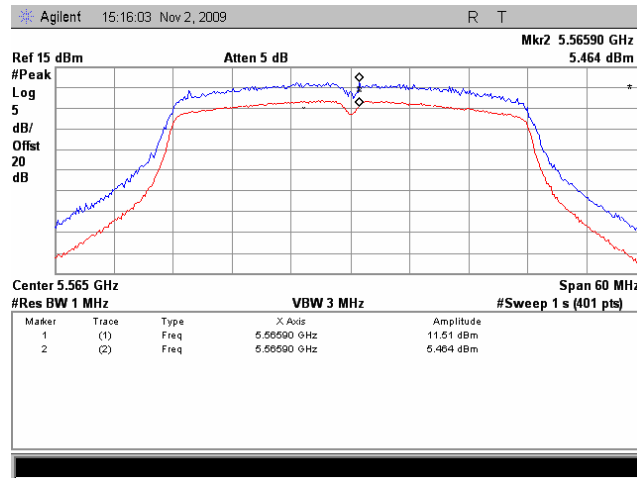
Frequency: 5505MHz  
Channel BW: 40 MHz  
Modulation parameters: 64QAM; 270 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

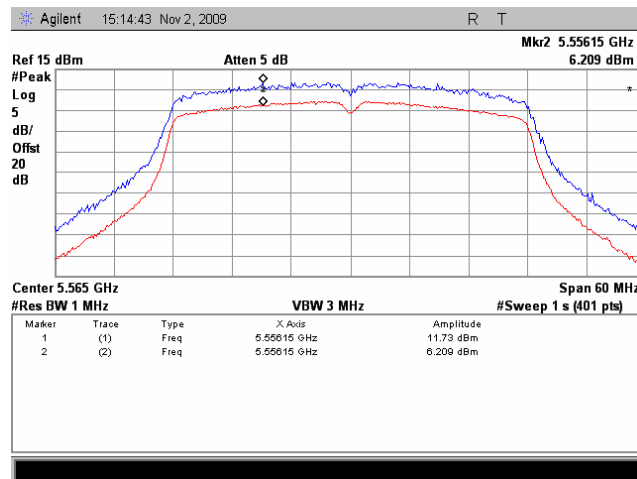
**Plot 7.2.35 Peak excursion measurement**

Frequency:	5565MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK; 27 MBps



**Plot 7.2.36 Peak excursion measurement**

Frequency:	5565MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps

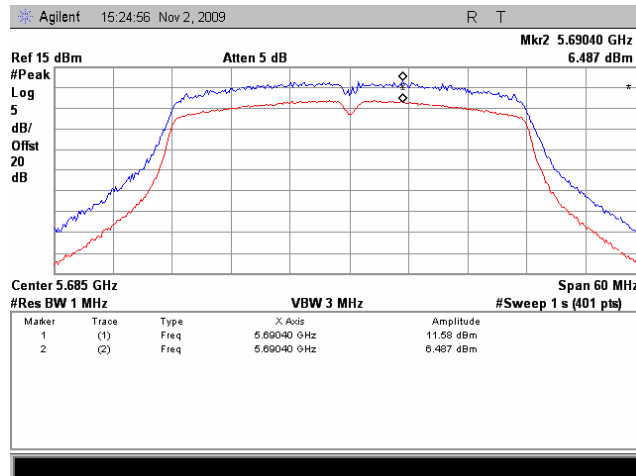




<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

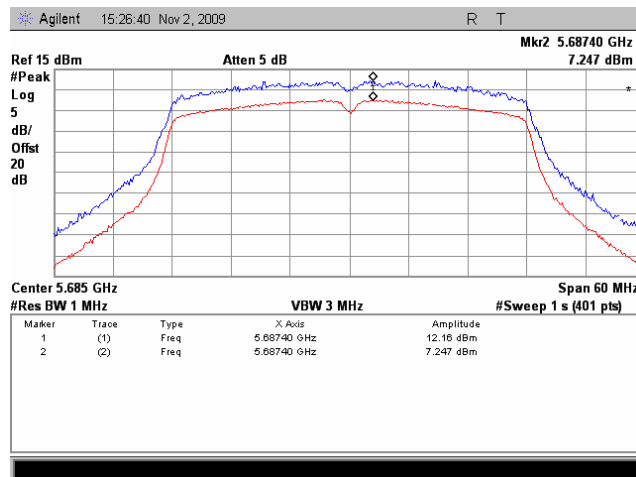
**Plot 7.2.37 Peak excursion measurement**

Frequency:	5685MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK; 27 MBps



**Plot 7.2.38 Peak excursion measurement**

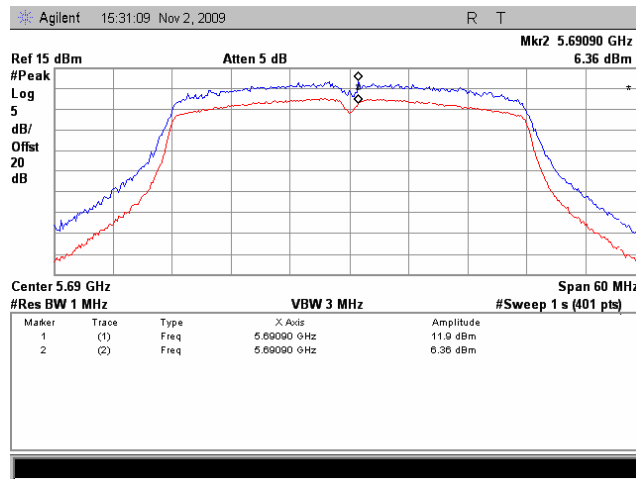
Frequency:	5685MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

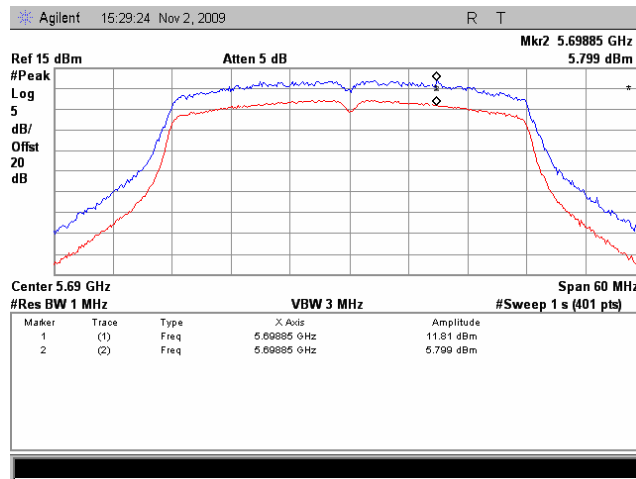
**Plot.7.2.39 Peak excursion measurement**

Frequency: 5690MHz  
Channel BW: 40 MHz  
Modulation parameters: BPSK; 27 MBps



**Plot.7.2.40 Peak excursion measurement**

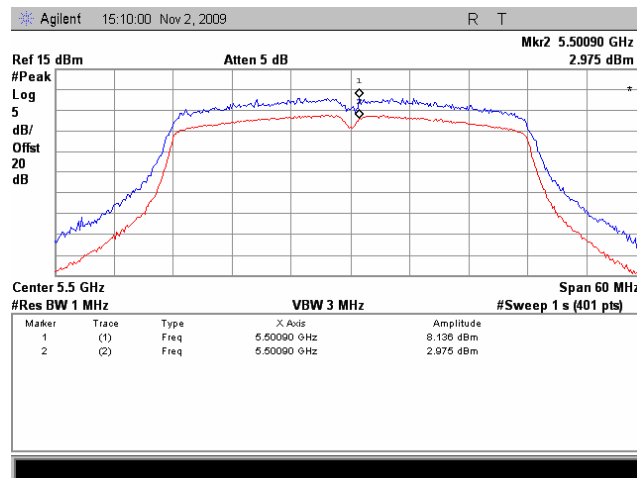
Frequency: 5690MHz  
Channel BW: 40 MHz  
Modulation parameters: 64QAM; 270 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

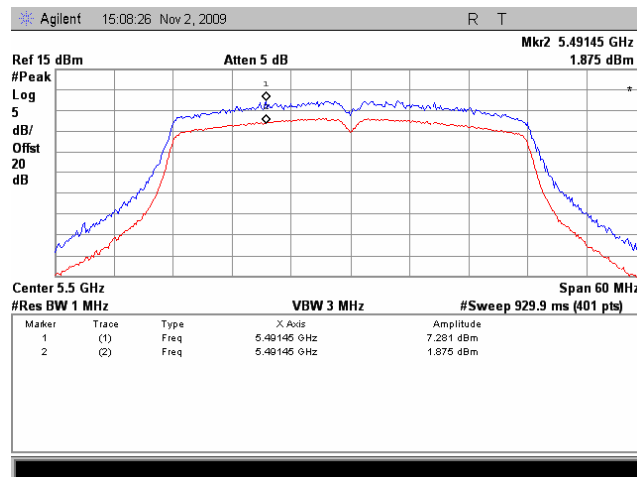
Plot 7.2.41 Peak excursion measurement

Frequency:	5500MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK; 27 MBps



Plot 7.2.42 Peak excursion measurement

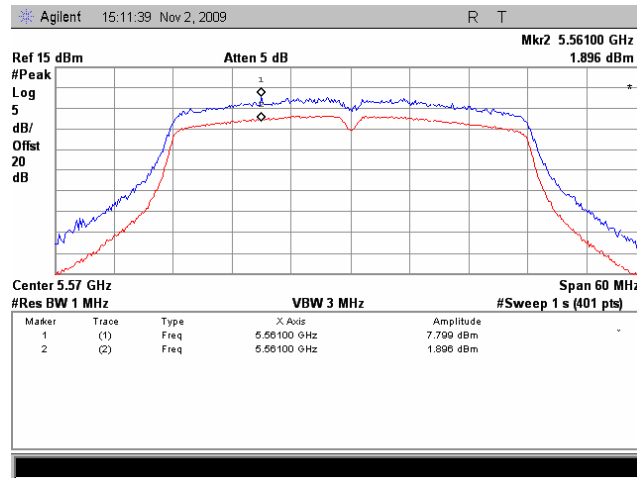
Frequency:	5500MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

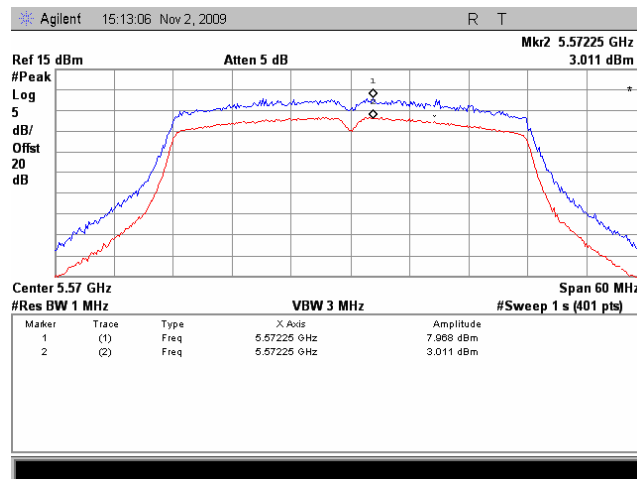
Plot 7.2.43 Peak excursion measurement

Frequency:	5570MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK; 27 MBps



Plot 7.2.44 Peak excursion measurement

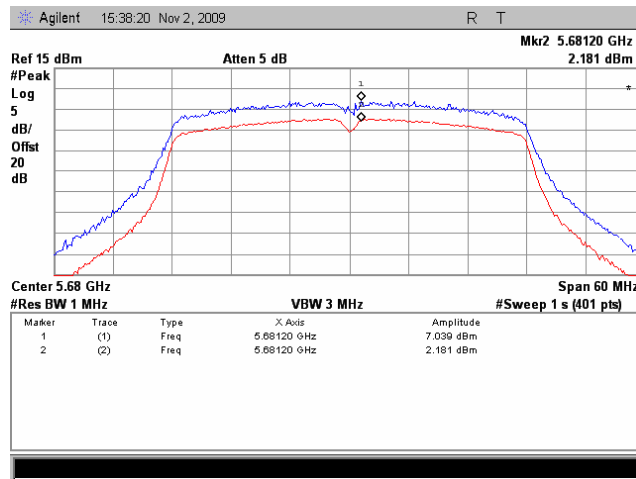
Frequency:	5570MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

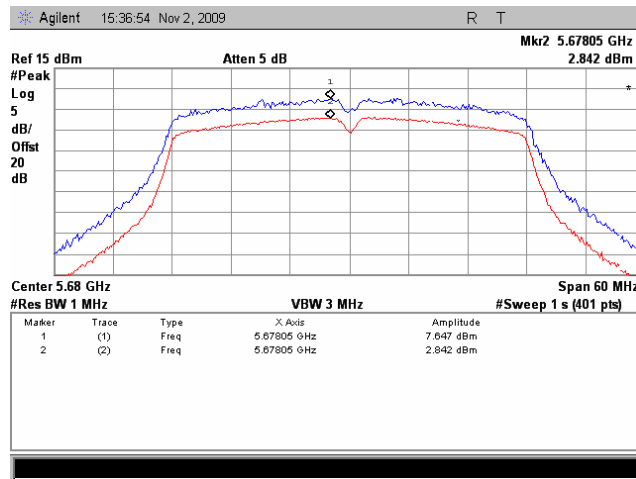
**Plot.7.2.45 Peak excursion measurement**

Frequency: 5680MHz  
Channel BW: 40 MHz  
Modulation parameters: BPSK; 27 MBps



**Plot.7.2.46 Peak excursion measurement**

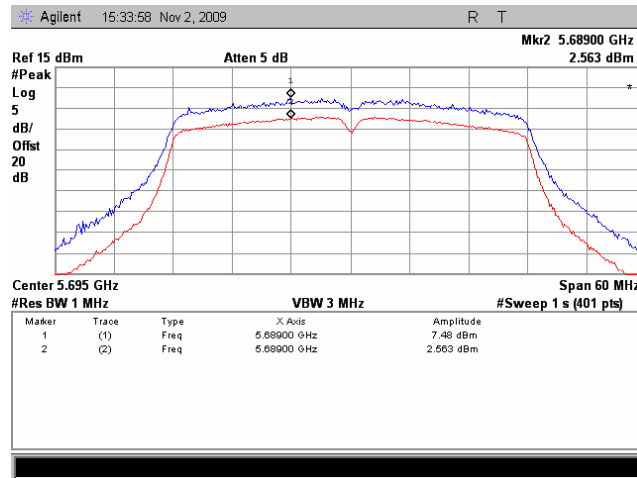
Frequency: 5680MHz  
Channel BW: 40 MHz  
Modulation parameters: 64QAM; 270 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

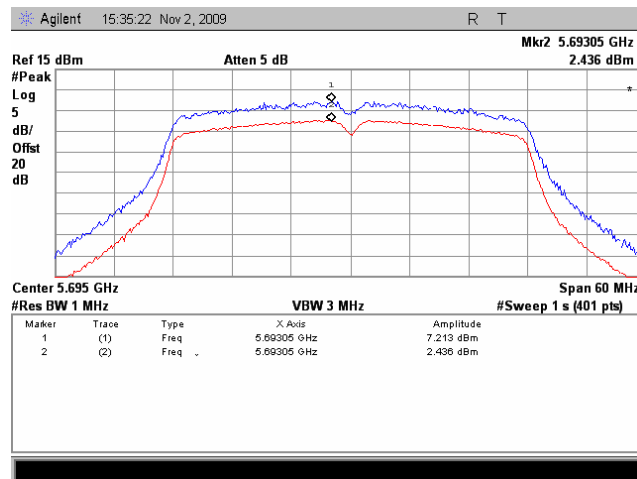
Plot 7.2.47 Peak excursion measurement

Frequency:	5695MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK; 27 MBps



Plot 7.2.48 Peak excursion measurement

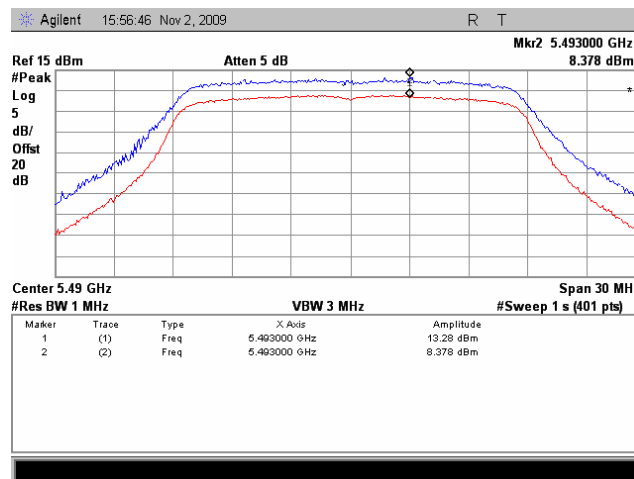
Frequency:	5695MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

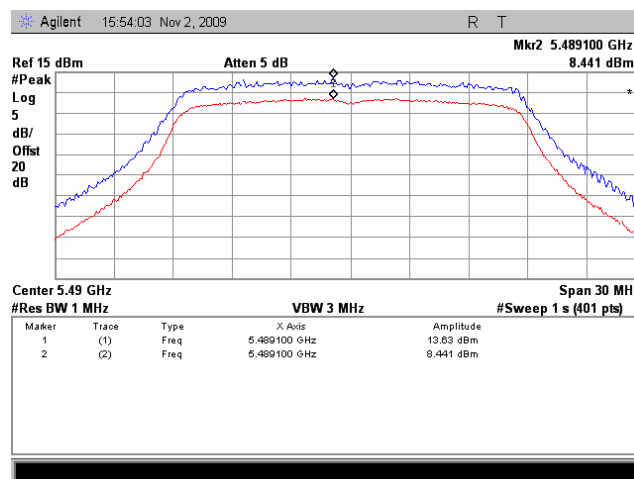
**Plot.7.2.49 Peak excursion measurement**

Frequency: 5490MHz  
Channel BW: 20 MHz  
Modulation parameters: BPSK; 13 MBps



**Plot.7.2.50 Peak excursion measurement**

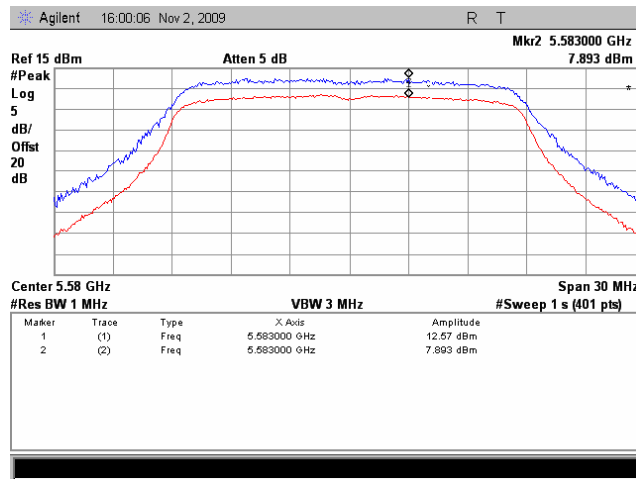
Frequency: 5490 MHz  
Channel BW: 20 MHz  
Modulation parameters: 64QAM; 130 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

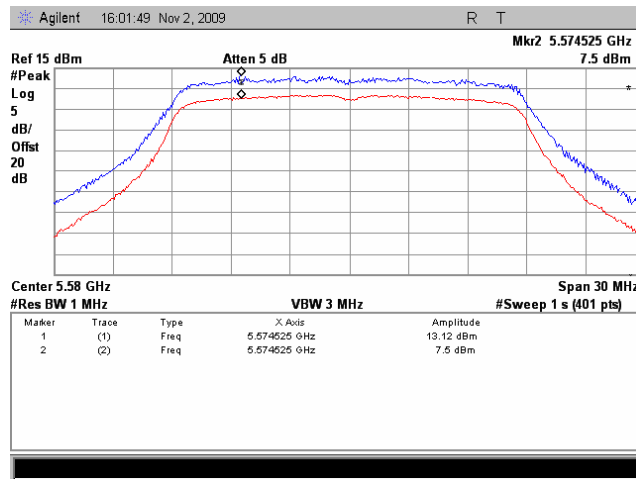
**Plot.7.2.51 Peak excursion measurement**

Frequency: 5580MHz  
Channel BW: 20 MHz  
Modulation parameters: BPSK; 13 MBps



**Plot.7.2.52 Peak excursion measurement**

Frequency: 5580 MHz  
Channel BW: 20 MHz  
Modulation parameters: 64QAM; 130 MBps

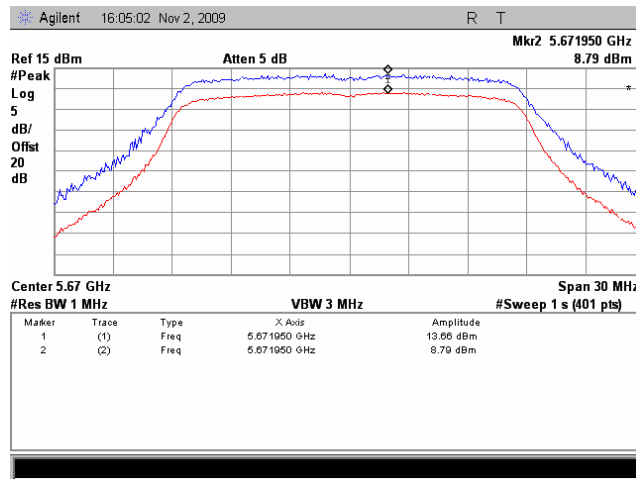




<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

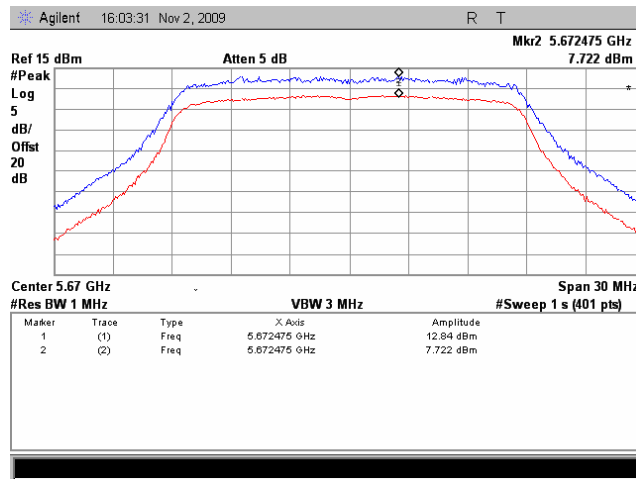
**Plot.7.2.53 Peak excursion measurement**

Frequency: 5670MHz  
Channel BW: 20 MHz  
Modulation parameters: BPSK; 13 MBps



**Plot.7.2.54 Peak excursion measurement**

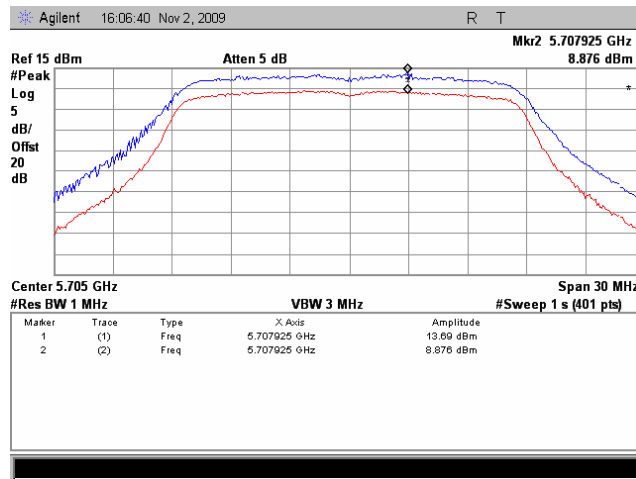
Frequency: 5670 MHz  
Channel BW: 20 MHz  
Modulation parameters: 64QAM; 130 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

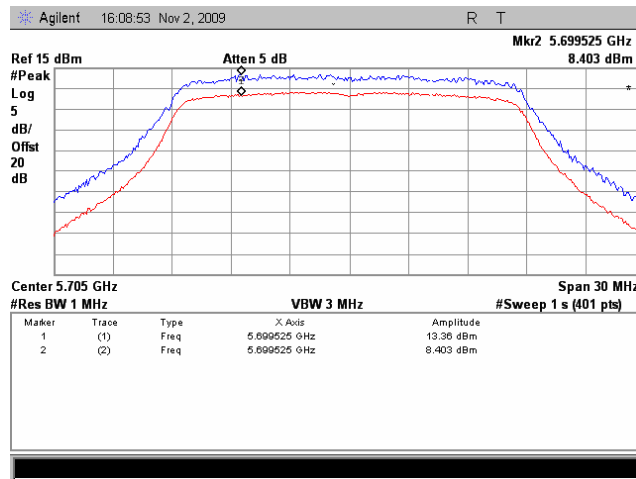
**Plot.7.2.55 Peak excursion measurement**

Frequency: 5705MHz  
Channel BW: 20 MHz  
Modulation parameters: BPSK; 13 MBps



**Plot.7.2.56 Peak excursion measurement**

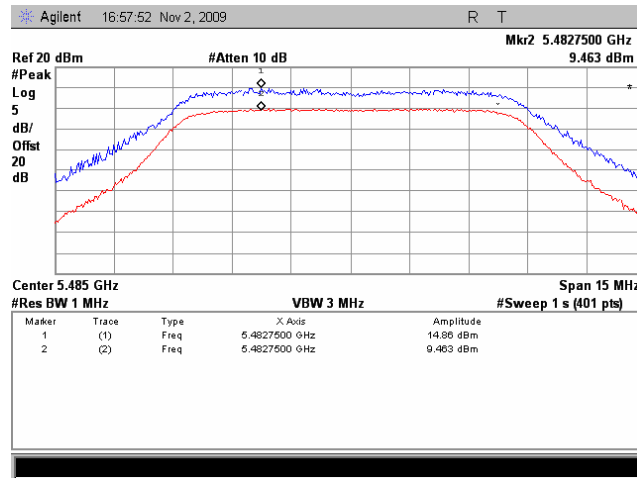
Frequency: 5705 MHz  
Channel BW: 20 MHz  
Modulation parameters: 64QAM; 130 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

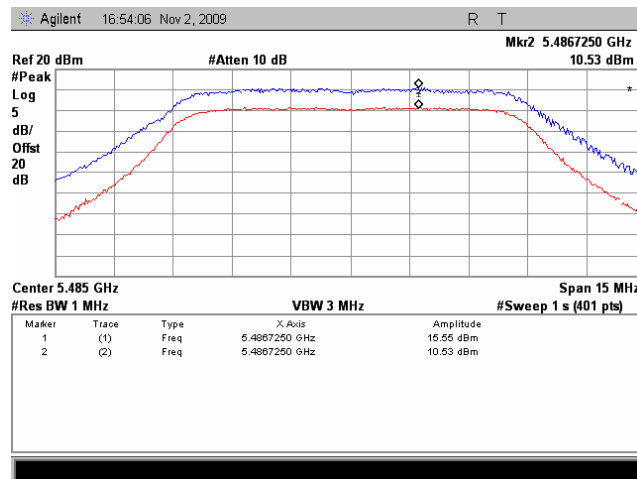
**Plot 7.2.57 Peak excursion measurement**

Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK; 6.5 Mbps



**Plot 7.2.58 Peak excursion measurement**

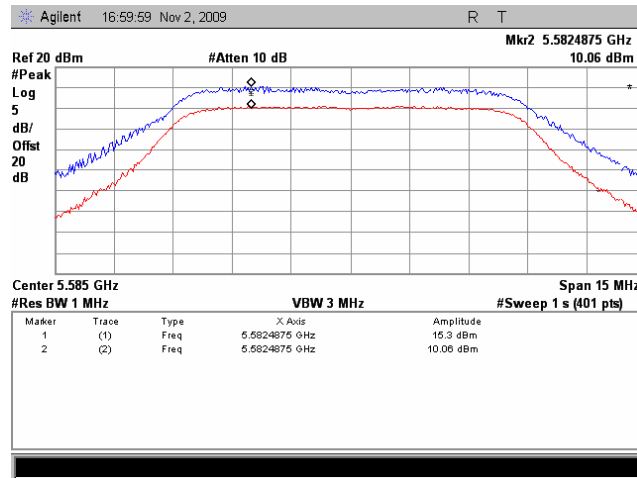
Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM; 65 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

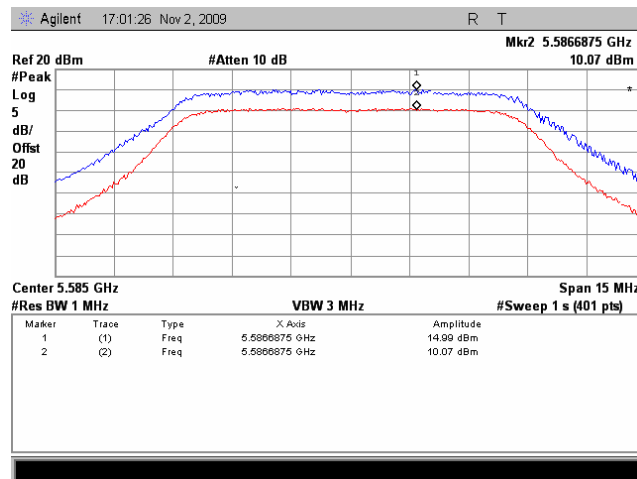
**Plot 7.2.59 Peak excursion measurement**

<b>Frequency:</b>	5585 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	BPSK; 6.5 Mbps



**Plot 7.2.60 Peak excursion measurement**

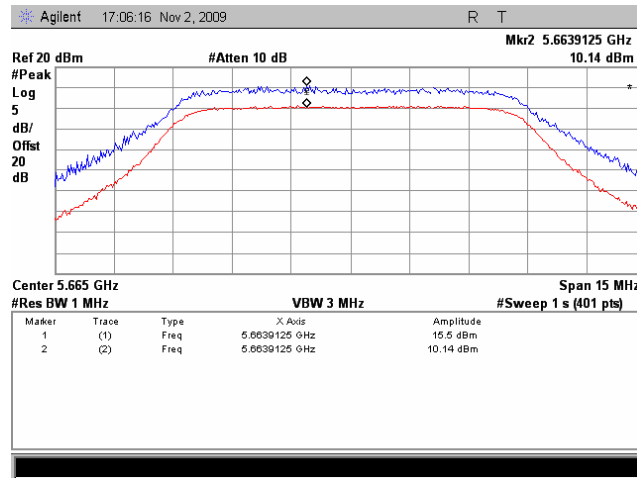
<b>Frequency:</b>	5585 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	64QAM; 65 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

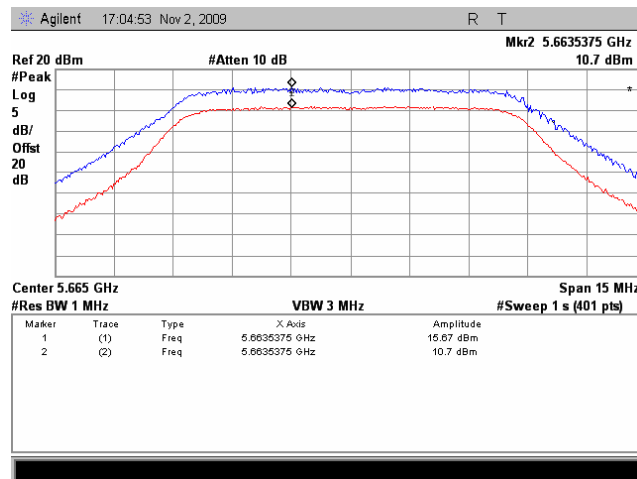
**Plot 7.2.61 Peak excursion measurement**

<b>Frequency:</b>	5665 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	BPSK; 6.5 Mbps



**Plot 7.2.62 Peak excursion measurement**

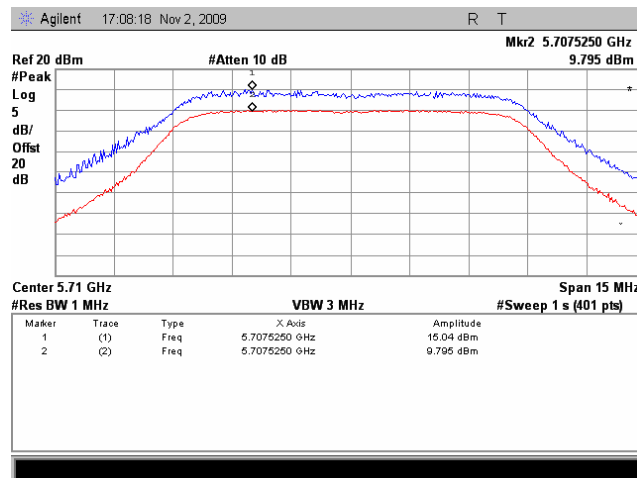
<b>Frequency:</b>	5665 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	64QAM; 65 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

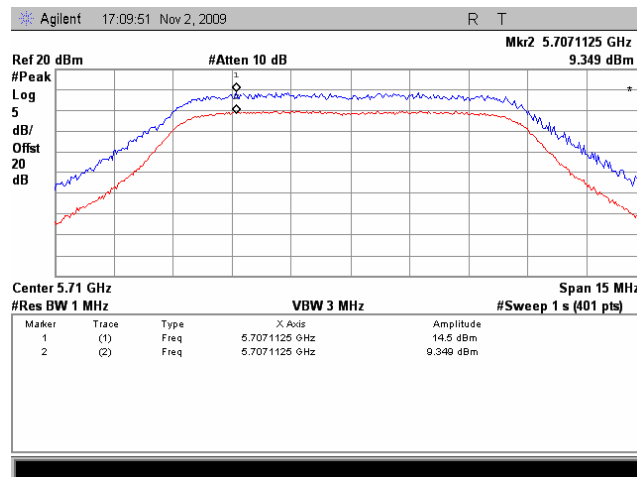
**Plot 7.2.63 Peak excursion measurement**

<b>Frequency:</b>	5710 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	BPSK; 6.5 Mbps



**Plot 7.2.64 Peak excursion measurement**

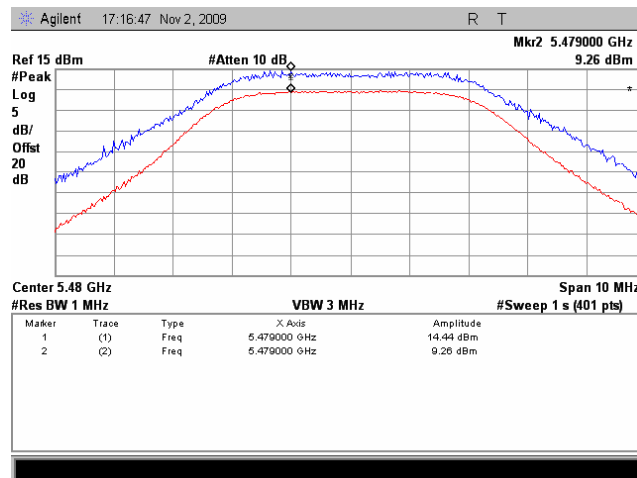
<b>Frequency:</b>	5710 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	64QAM; 65 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

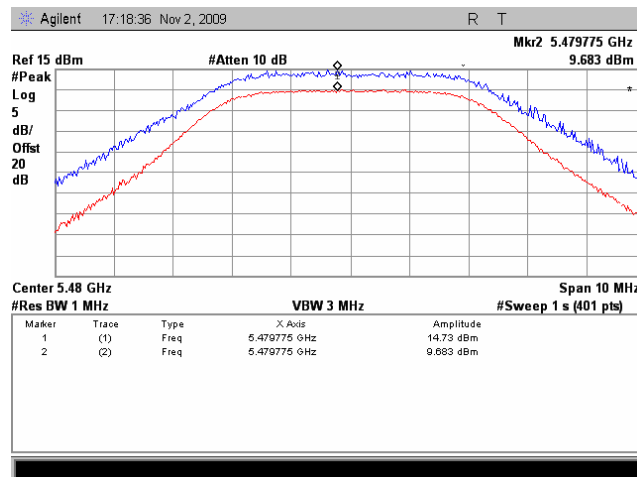
**Plot 7.2.65 Peak excursion measurement**

<b>Frequency:</b>	5480 MHz
<b>Channel BW:</b>	5 MHz
<b>Modulation parameters:</b>	BPSK; 3.25 MBps



**Plot 7.2.66 Peak excursion measurement**

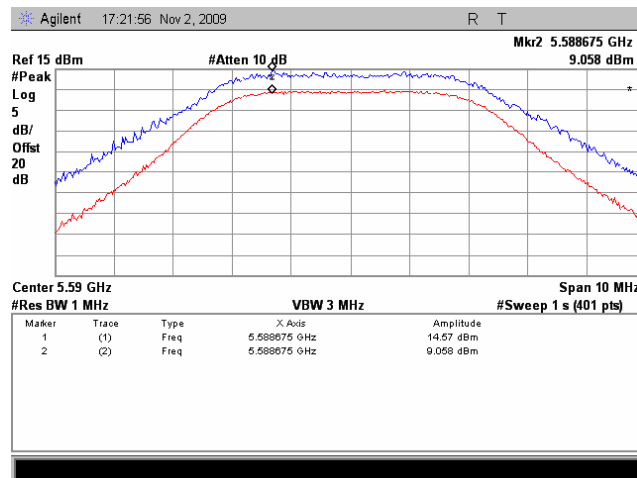
<b>Frequency:</b>	5480 MHz
<b>Channel BW:</b>	5 MHz
<b>Modulation parameters:</b>	64QAM; 32.5 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

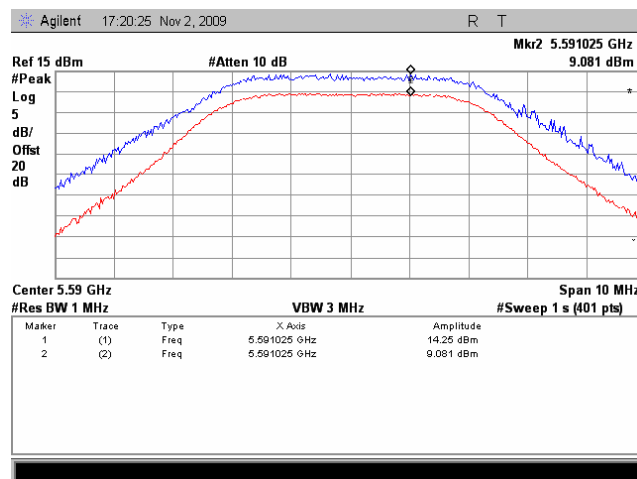
**Plot 7.2.67 Peak excursion measurement**

<b>Frequency:</b>	5590 MHz
<b>Channel BW:</b>	5 MHz
<b>Modulation parameters:</b>	BPSK; 3.25 MBps



**Plot 7.2.68 Peak excursion measurement**

<b>Frequency:</b>	5590 MHz
<b>Channel BW:</b>	5 MHz
<b>Modulation parameters:</b>	64QAM; 32.5 MBps

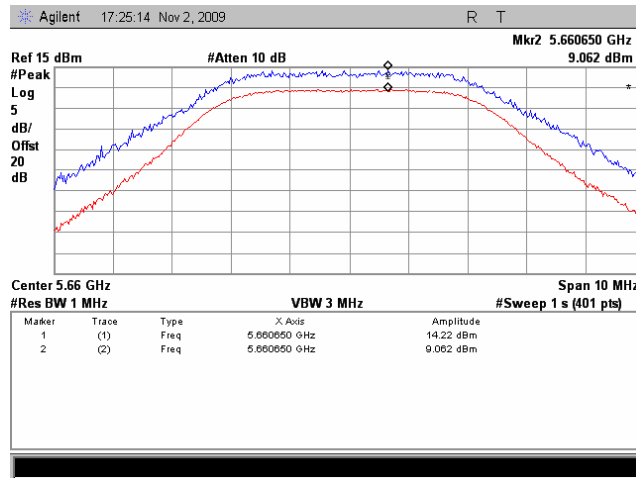




<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

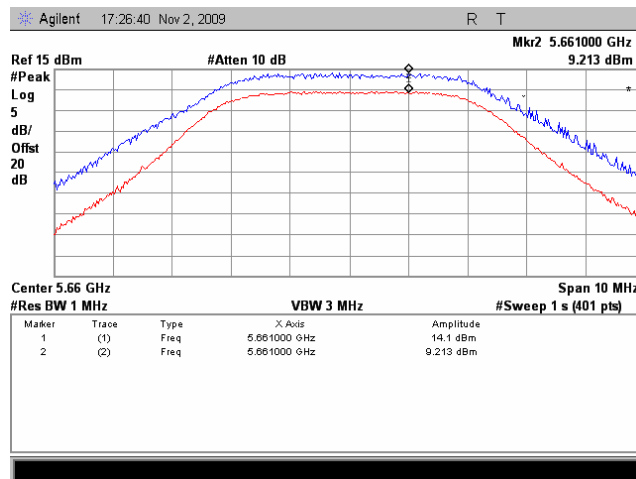
**Plot 7.2.69 Peak excursion measurement**

<b>Frequency:</b>	5660 MHz
<b>Channel BW:</b>	5 MHz
<b>Modulation parameters:</b>	BPSK; 3.25 MBps



**Plot 7.2.70 Peak excursion measurement**

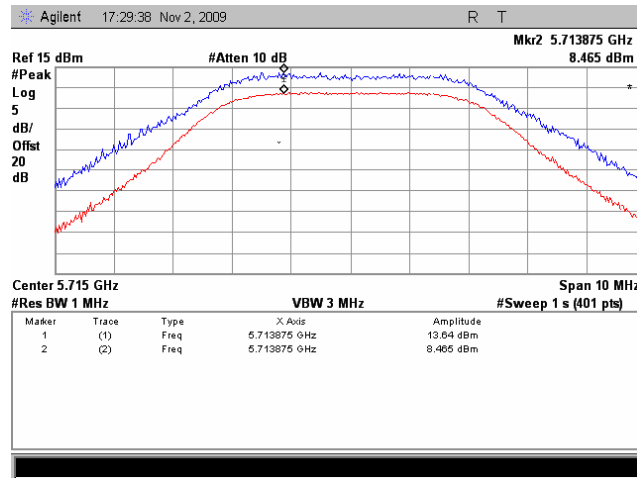
<b>Frequency:</b>	5660 MHz
<b>Channel BW:</b>	5 MHz
<b>Modulation parameters:</b>	64QAM; 32.5 MBps



<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/02/2009		
<b>Temperature:</b> 25 °C	<b>Air Pressure:</b> 1006 hPa	<b>Relative Humidity:</b> 49 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, 5/10/20/40 MHz EBW			

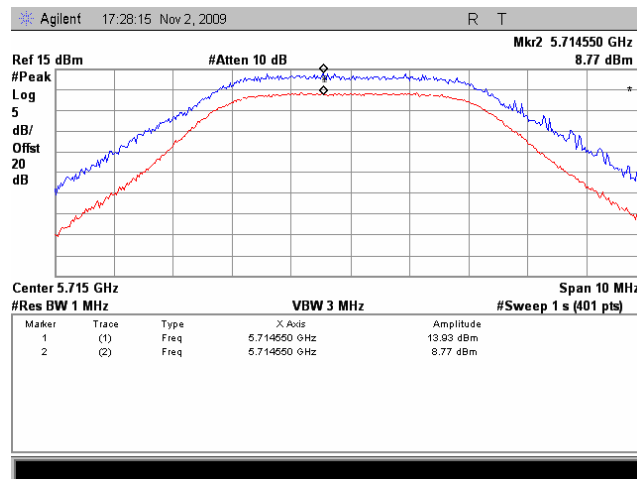
**Plot 7.2.71 Peak excursion measurement**

<b>Frequency:</b>	5715 MHz
<b>Channel BW:</b>	5 MHz
<b>Modulation parameters:</b>	BPSK; 3.25 MBps



**Plot 7.2.72 Peak excursion measurement**

<b>Frequency:</b>	5715 MHz
<b>Channel BW:</b>	5 MHz
<b>Modulation parameters:</b>	64QAM; 32.5 MBps





<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions</b>		
<b>Test procedure:</b>	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/09/2009		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b>			

### 7.3 Field strength of spurious emissions

#### 7.3.1 General

This test was performed to measure field strength of spurious emissions from the EUT. Specification test limits are given in Table 7.3.1, Table 7.3.2.

**Table 7.3.1 Radiated spurious emissions limits below 1 GHz and within restricted bands above 1 GHz**

Frequency, MHz	Field strength at 3 m, dB(μV/m)***		
	Peak	Quasi Peak	Average
0.009 – 0.490*	NA	128.5 – 93.8**	NA
0.490 – 1.705*		73.8 – 63.0**	
1.705 – 30.0*		69.5**	
30 – 88		40.0	
88 – 216		43.5	
216 – 960		46.0	
960 - 1000		54.0	
Above 1000		74.0	

\*- The limit for 3 m test distance was calculated using the inverse square distance extrapolation factor as follows:  
$$\text{LimS2} = \text{LimS1} + 40 \log (S1/S2),$$

where S1 and S2 – standard defined and test distance respectively in meters.

\*\* - The limit decreases linearly with the logarithm of frequency.

\*\*\* - The field strength limits applied from the lowest radio frequency generated in the device, without going below 9 kHz up to the tenth harmonic of the highest fundamental frequency.

**Table 7.3.2 EIRP of undesirable emissions limits outside restricted bands (above 1 GHz)**

Frequency band, GHz	Out of band EIRP, dBm/MHz	Field strength at 3 m, dB(μV/m)
5.47 – 5.725	-27	68.23

#### 7.3.2 Test procedure for spurious emission field strength measurements in 9 kHz to 30 MHz band

**7.3.2.1** The EUT was set up as shown in Figure 7.3.1, energized and the performance check was conducted.

**7.3.2.2** The specified frequency range was investigated with antenna connected to spectrum analyzer/ EMI receiver. To find maximum radiation the turntable was rotated 360° and the measuring antenna was rotated around its vertical axis.

**7.3.2.3** The worst test results (the lowest margins) were recorded and shown in the associated plots.

#### 7.3.3 Test procedure for spurious emission field strength measurements above 30 MHz

**7.3.3.1** The EUT was set up as shown in Figure 7.3.2, energized and the performance check was conducted.

**7.3.3.2** The specified frequency range was investigated with antenna connected to spectrum analyzer/ EMI receiver. To find maximum radiation the turntable was rotated 360°, the measuring antenna height was changed from 1 to 4 m, its polarization was switched from vertical to horizontal.

**7.3.3.3** The worst test results (the lowest margins) were recorded and shown in the associated plots.



<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions</b>		
<b>Test procedure:</b>	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/09/2009		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b>			

Figure 7.3.1 Setup for spurious emission field strength measurements below 30 MHz

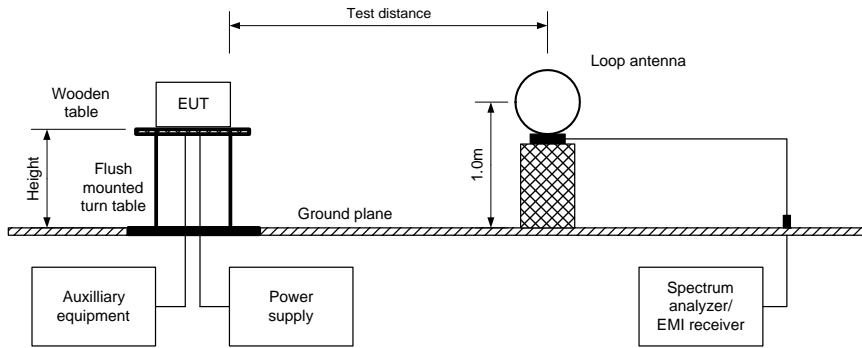
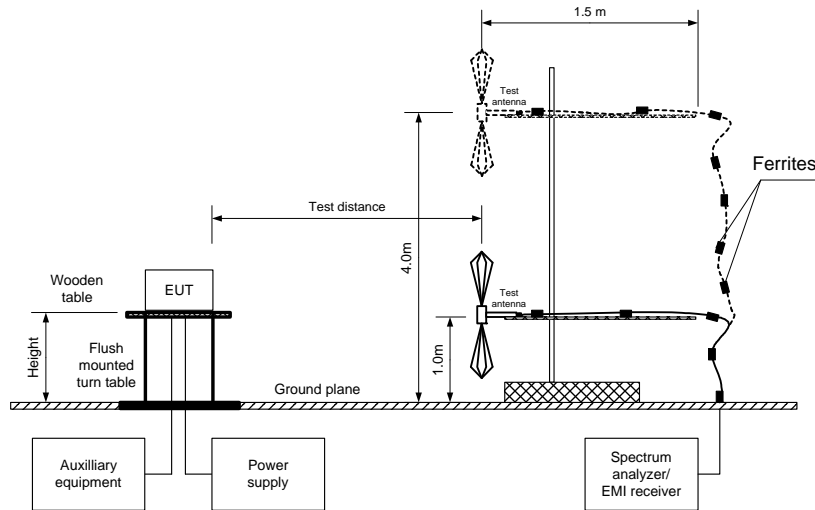


Figure 7.3.2 Setup for spurious emission field strength measurements above 30 MHz





<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>	
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4	
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS
<b>Date:</b> 11/09/2009	
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa
<b>Relative Humidity:</b> 47 %	
<b>Power Supply:</b> 120 VAC	
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna	

**Table 7.3.3 Field strength of spurious emissions below 1 GHz within restricted bands**

ASSIGNED FREQUENCY RANGE: 5470 - 5725 MHz  
 INVESTIGATED FREQUENCY RANGE: 0.009 - 1000 MHz  
 TEST SITE: Semi Anechoic Chamber  
 TEST DISTANCE: 3 m  
 MODULATION: OFDM, BPSK  
 BIT RATE: 6.5 Mbps  
 DUTY CYCLE: 100 %  
 TRANSMITTER OUTPUT POWER: Maximum  
 RESOLUTION BANDWIDTH: 1.0 kHz (9 kHz – 150 kHz)  
 9.0 kHz (150 kHz – 30 MHz)  
 120 kHz (30 MHz – 1000 MHz)  
 VIDEO BANDWIDTH: > Resolution bandwidth  
 TEST ANTENNA TYPE: Active loop (9 kHz – 30 MHz)  
 Biconilog (30 MHz – 1000 MHz)  
 Double ridged guide (above 1000 MHz)  
 NOTE: Worst case 10 MHz EBW

Frequency, MHz	Peak, dB(µV/m)	Quasi-peak dB(µV/m)			Antenna polarization	Antenna height, m	Turntable position**, degrees	Verdict	
		Measured emission, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*					
<b>Low channel (5485 MHz)</b>									
37.6405	40.4	36.7	40.0	-3.30	Vertical	1.0	52	Pass	
111.61335	39.6	37.0	43.5	-6.50	Vertical	1.0	170		
974.69680	49.1	44.8	54.0	-9.20	Vertical	1.2	282		
<b>First mid channel (5585 MHz)</b>									
37.6405	40.3	36.7	40.0	-3.30	Vertical	1.0	52		
111.61335	39.8	38.2	43.5	-5.30	Vertical	1.0	170		
974.69680	48.9	44.9	54.0	-9.10	Vertical	1.2	282		
<b>Second mid channel (5665 MHz)</b>									
37.6405	39.8	36.8	40.0	-3.20	Vertical	1.0	52		
111.61335	39.9	37.3	43.5	-6.20	Vertical	1.0	170		
974.69680	48.6	44.9	54.0	-9.10	Vertical	1.2	282		
<b>High channel (5710 MHz)</b>									
37.6405	39.9	36.9	40.0	-3.10	Vertical	1.0	52		
111.61335	39.8	37.4	43.5	-6.10	Vertical	1.0	170		
974.69680	49.4	44.8	54.0	-9.20	Vertical	1.2	282		

\*- Margin = Measured emission – specification limit.  
 \*\*- EUT front panel refers to 0 degrees position of turntable.

**Reference numbers of test equipment used**

HL 0446	HL 0521	HL 0604	HL 3123	HL 3616			
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Full description is given in Appendix A.



<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>	
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4	
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS
<b>Date:</b> 11/09/2009	
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa
<b>Relative Humidity:</b> 47 %	
<b>Power Supply:</b> 120 VAC	
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna	

**Table 7.3.4 Field strength of spurious emissions above 1 GHz within restricted bands**

ASSIGNED FREQUENCY RANGE: 5470 - 5725 MHz  
 INVESTIGATED FREQUENCY RANGE: 0.009 - 40000 MHz  
 TEST SITE: Semi Anechoic Chamber  
 TEST DISTANCE: 3 m  
 MODULATION: OFDM, BPSK  
 BIT RATE: 6.5 Mbps  
 DUTY CYCLE: 100 %  
 TRANSMITTER OUTPUT POWER: Maximum  
 RESOLUTION BANDWIDTH: 1000 kHz  
 VIDEO BANDWIDTH: > Resolution bandwidth  
 TEST ANTENNA TYPE: Double ridged guide (above 1000 MHz)  
 NOTE: Worst case 10 MHz EBW

Frequency, MHz	Peak, dB(µV/m)			Average dB(µV/m)			Ant. polariz.	Ant. height, m	Turntable position**, degrees	Verdict
	Measured emission, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*	Measured emission, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*				
<b>Second mid channel (5680 MHz)</b>										
11330.27	54.19	74.0	-19.81	41.45	54.0	-12.85	Vertical	1.0	90	Pass
<b>High channel (5695 MHz)</b>										
11420.00	54.17	74.0	-19.83	40.36	54.0	-13.74	Vertical	1.0	90	

For band edge emission results refer to section 7.4 of this test report.

- \*- Margin = Measured emission – specification limit.
- \*\* - EUT front panel refers to 0 degrees position of turntable.

Reference numbers of test equipment used

HL 0446	HL 0521	HL 0604	HL 0768	HL 0769	HL 1984	HL 2254	HL 2387
HL 2871	HL 2909	HL 2952	HL 3123	HL 3531	HL 3533	HL 3535	HL 3616
HL 3818							

Full description is given in Appendix A.

**Table 7.3.5 Restricted bands**

MHz	MHz	MHz	MHz	MHz	GHz
0.09 - 0.11	8.37625 - 8.38675	73 - 74.6	399.9 - 410	2690 - 2900	10.6 - 12.7
0.495 - 0.505	8.41425 - 8.41475	74.8 - 75.2	608 - 614	3260 - 3267	13.25 - 13.4
2.1735 - 2.1905	12.29 - 12.293	108 - 121.94	960 - 1240	3332 - 3339	14.47 - 14.5
4.125 - 4.128	12.51975 - 12.52025	123 - 138	1300 - 1427	3345.8 - 3358	15.35 - 16.2
4.17725 - 4.17775	12.57675 - 12.57725	149.9 - 150.05	1435 - 1626.5	3600 - 4400	17.7 - 21.4
4.20725 - 4.20775	13.36 - 13.41	156.52475 - 156.52525	1645.5 - 1646.5	4500 - 5150	22.01 - 23.12
6.215 - 6.218	16.42 - 16.423	156.7 - 156.9	1660 - 1710	5350 - 5460	23.6 - 24
6.26775 - 6.26825	16.69475 - 16.69525	162.0125 - 167.17	1718.8 - 1722.2	7250 - 7750	31.2 - 31.8
6.31175 - 6.31225	16.80425 - 16.80475	167.72 - 173.2	2200 - 2300	8025 - 8500	36.43 - 36.5
8.291 - 8.294	25.5 - 25.67	240 - 285	2310 - 2390	9000 - 9200	Above 38.6
8.362 - 8.366	37.5 - 38.25	322 - 335.4	2483.5 - 2500	9300 - 9500	



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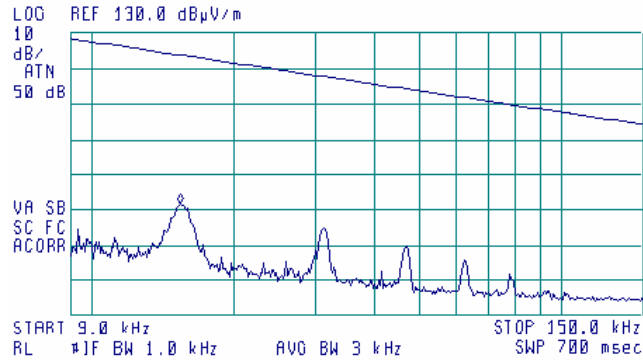
<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

**Plot 7.3.1 Radiated emission measurements from 9 to 150 kHz at the low carrier frequency**

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal

23:13:41 NOV 10, 2009

ACTV DET: PEAK  
MERS DET: PEAK OP AVG  
MKR 15.6 kHz  
B1.56 dBμV/m

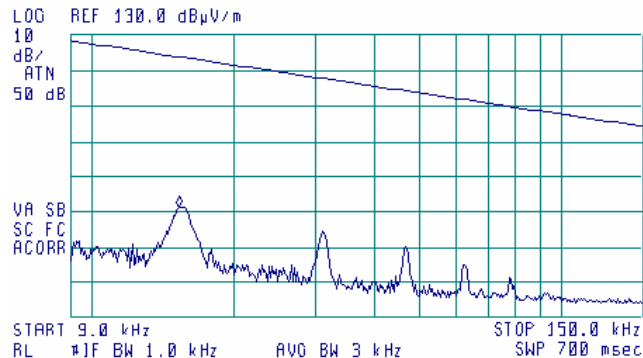


**Plot 7.3.2 Radiated emission measurements from 9 to 150 kHz at the first mid carrier frequency**

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal

23:14:43 NOV 10, 2009

ACTV DET: PEAK  
MERS DET: PEAK OP AVG  
MKR 15.4 kHz  
B1.55 dBμV/m





HERMON LABORATORIES

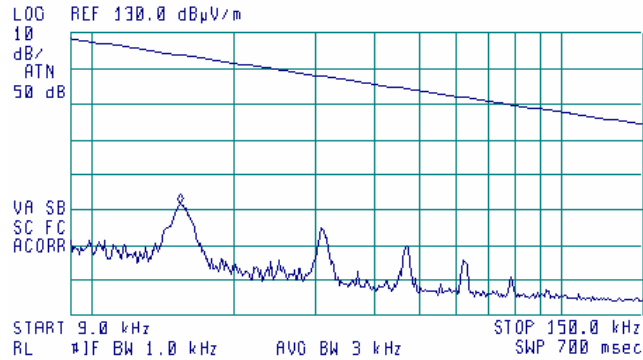
<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

Plot 7.3.3 Radiated emission measurements from 9 to 150 kHz at the second mid carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal

23:18:21 NOV 10, 2009

ACTV DET: PEAK  
MERS DET: PEAK OP AVG  
MKR 15.6 kHz  
B1.75 dBμV/m

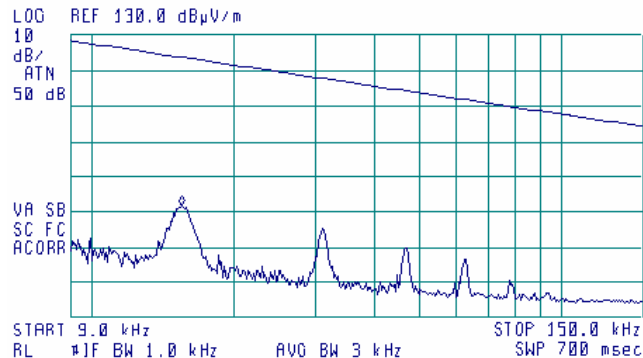


Plot 7.3.4 Radiated emission measurements from 9 to 150 kHz at the high carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal

23:19:22 NOV 10, 2009

ACTV DET: PEAK  
MERS DET: PEAK OP AVG  
MKR 15.7 kHz  
B1.60 dBμV/m







HERMON LABORATORIES

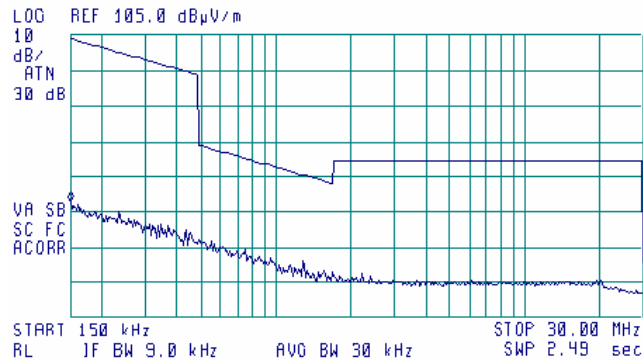
<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

Plot 7.3.5 Radiated emission measurements from 0.15 MHz to 30 MHz at the low carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal

23:11:56 NOV 10, 2009

ACTV DET: PEAK  
MEAS DET: PEAK OP AVG  
MKR 150 kHz  
57.63 dBμV/m

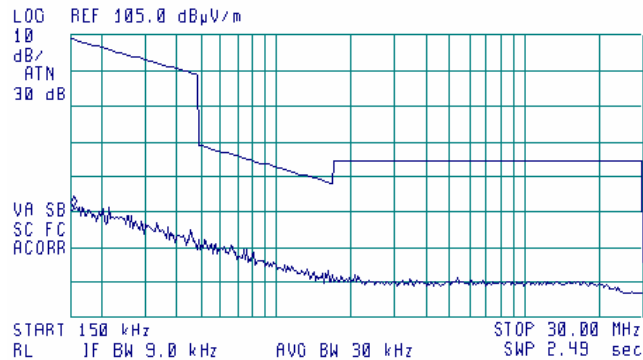


Plot 7.3.6 Radiated emission measurements from 0.15 MHz to 30 MHz at the first mid carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal

23:15:55 NOV 10, 2009

ACTV DET: PEAK  
MEAS DET: PEAK OP AVG  
MKR 150 kHz  
56.53 dBμV/m





HERMON LABORATORIES

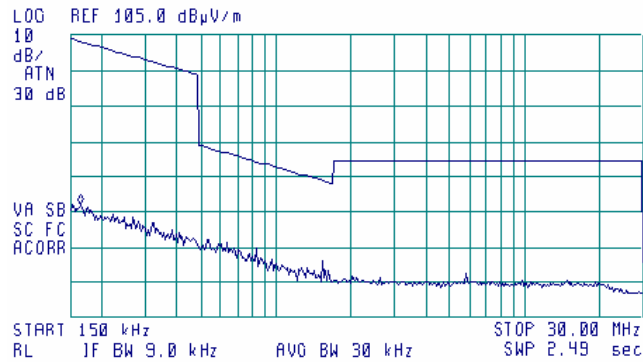
<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

Plot 7.3.7 Radiated emission measurements from 0.15 MHz to 30 MHz at the second mid carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal

23:17:07 NOV 10, 2009

ACTV DET: PEAK  
MEAS DET: PEAK OP AVG  
MKR 170 kHz  
57.15 dBμV/m

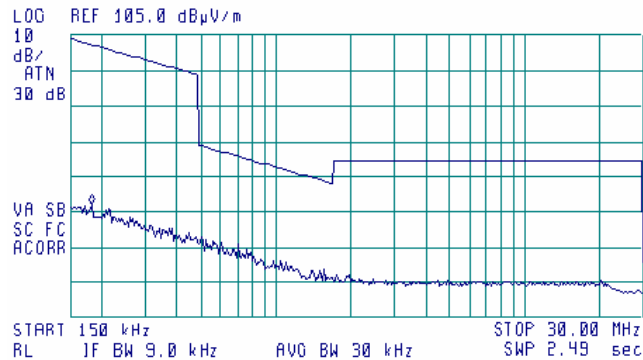


Plot 7.3.8 Radiated emission measurements from 0.15 MHz to 30 MHz at the high carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal

23:20:42 NOV 10, 2009

ACTV DET: PEAK  
MEAS DET: PEAK OP AVG  
MKR 180 kHz  
57.23 dBμV/m





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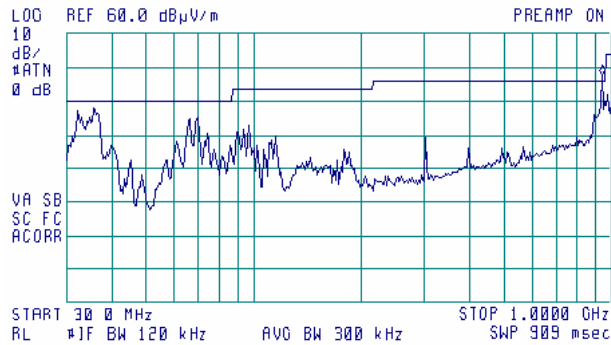
<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

Plot 7.3.9 Radiated emission measurements from 30 MHz to 1000 MHz at the low carrier frequency

TEST SITE: Semi Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal

00:23:42 NOV 09, 2009

ACTV DET: PEAK  
MEAS DET: PEAK OP AVG  
MKR 933.3 MHz  
47.69 dBµV/m



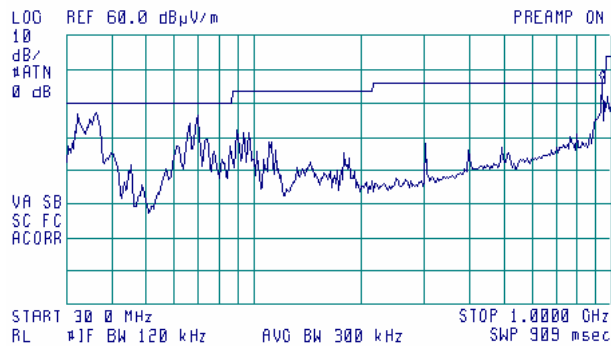
Note: Maximum peak emission was found outside restricted band

Plot 7.3.10 Radiated emission measurements from 30 MHz to 1000 MHz at the first mid carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal

00:25:52 NOV 09, 2009

ACTV DET: PEAK  
MEAS DET: PEAK OP AVG  
MKR 933.3 MHz  
47.00 dBµV/m



Note: Maximum peak emission was found outside restricted band



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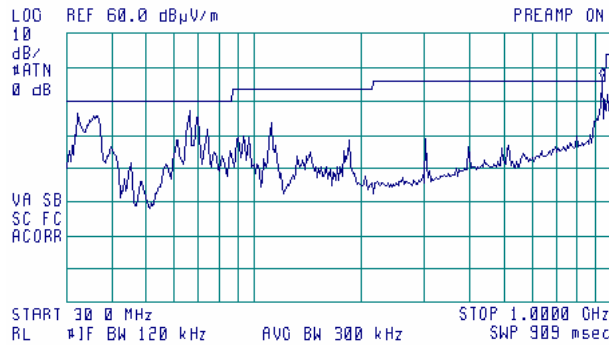
<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

Plot 7.3.11 Radiated emission measurements from 30 MHz to 1000 MHz at the second mid carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal

00:29:02 NOV 09, 2009

ACTV DET: PEAK  
MEAS DET: PEAK OP AVG  
MKR 933.3 MHz  
47.01 dBµV/m



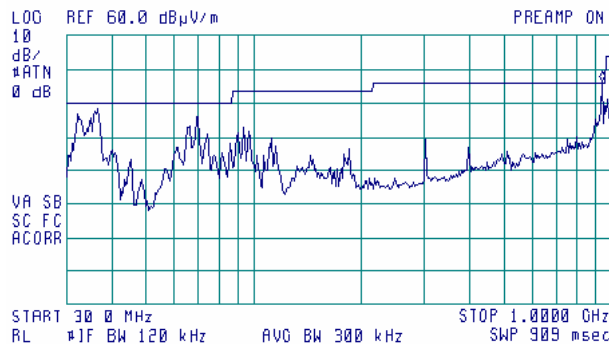
Note: Maximum peak emission was found outside restricted band

Plot 7.3.12 Radiated emission measurements from 30 MHz to 1000 MHz at the high carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal

00:31:21 NOV 09, 2009

ACTV DET: PEAK  
MEAS DET: PEAK OP AVG  
MKR 933.3 MHz  
46.00 dBµV/m



Note: Maximum peak emission was found outside restricted band



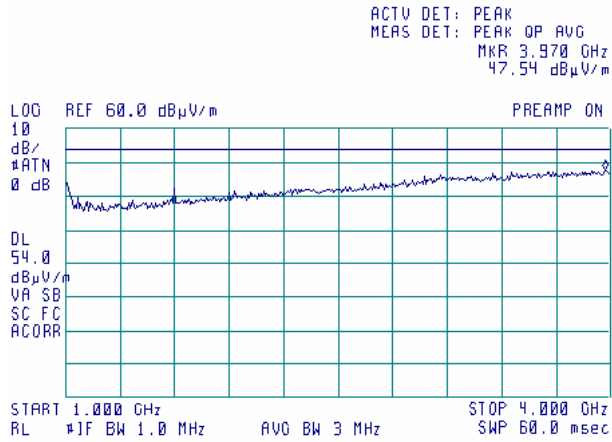
HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

Plot 7.3.13 Radiated emission measurements from 1.0 to 4.0 GHz at the low carrier frequency

TEST SITE: Anechoic chamber  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Peak under average limit

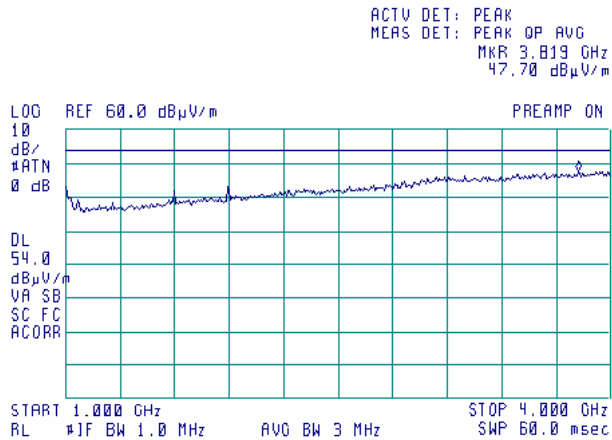
23:01:41 NOV 08, 2009



Plot 7.3.14 Radiated emission measurements from 1.0 to 4.0 GHz at the first mid carrier frequency

TEST SITE: Anechoic chamber  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Peak under average limit

23:03:24 NOV 08, 2009





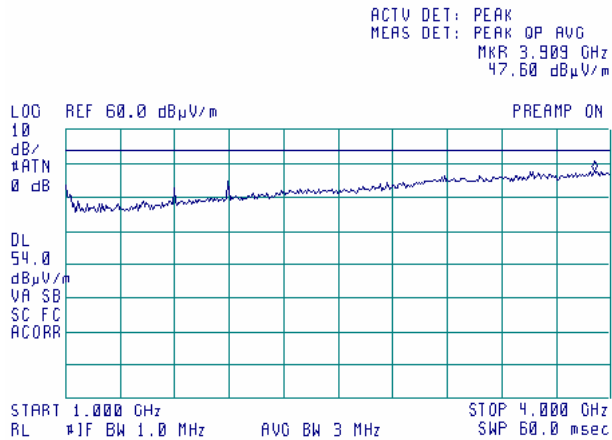
HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

Plot 7.3.15 Radiated emission measurements from 1.0 to 4.0 GHz at the second mid carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Peak under average limit

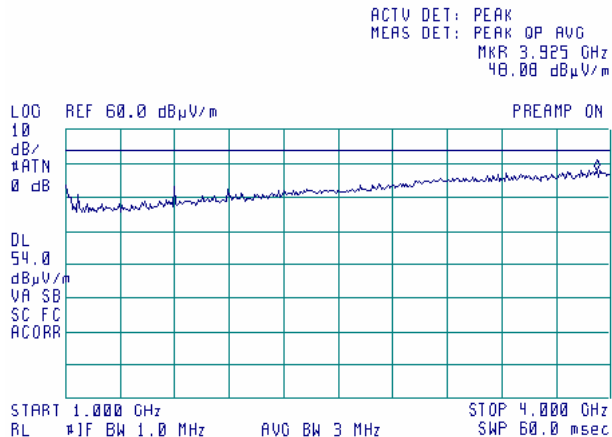
23:05:03 NOV 08, 2009



Plot 7.3.16 Radiated emission measurements from 1.0 to 4.0 GHz at the high carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Peak under average limit

23:06:51 NOV 08, 2009



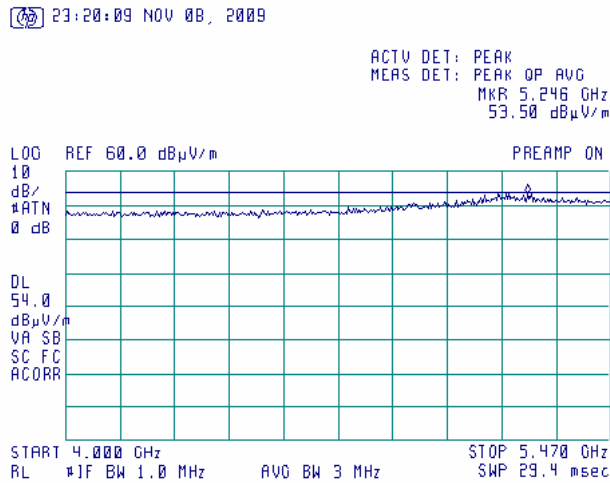


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

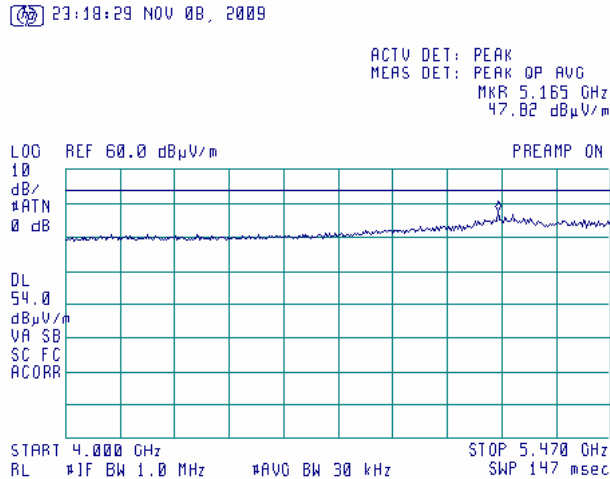
Plot 7.3.17 Radiated emission measurements from 4.0 to 5.47 GHz at the low carrier frequency

TEST SITE: Anechoic chamber  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Peak under average limit



Plot 7.3.18 Radiated emission measurements from 4.0 to 5.47 GHz at the low carrier frequency

TEST SITE: Anechoic chamber  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Average





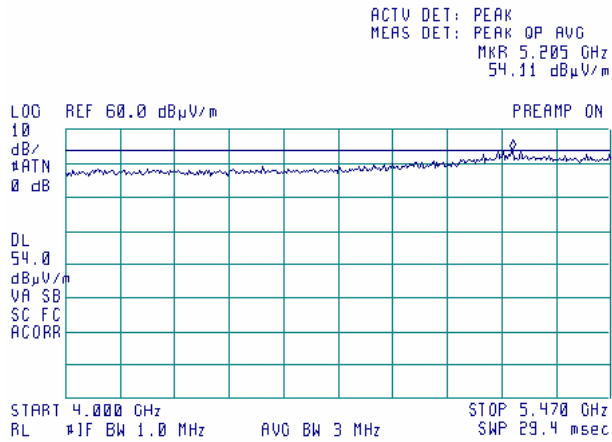
HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

Plot 7.3.19 Radiated emission measurements from 4.0 to 5.47 GHz at the first mid carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Peak

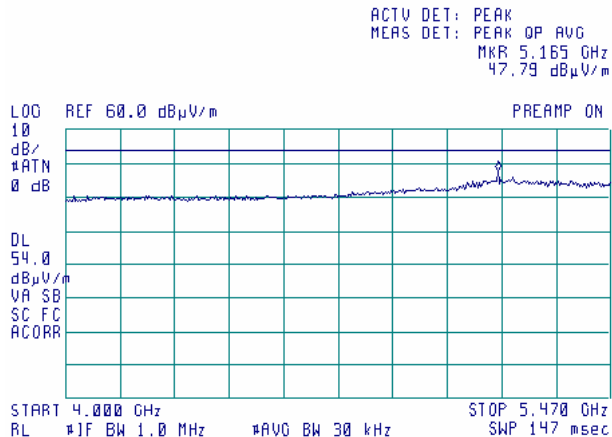
23:15:17 NOV 08, 2009



Plot 7.3.20 Radiated emission measurements from 4.0 to 5.47 GHz at the first mid carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Average

23:16:28 NOV 08, 2009







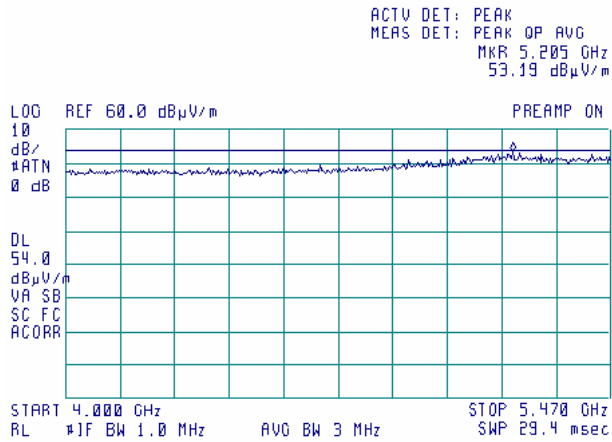
HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

Plot 7.3.21 Radiated emission measurements from 4.0 to 5.47 GHz at the second mid carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Peak

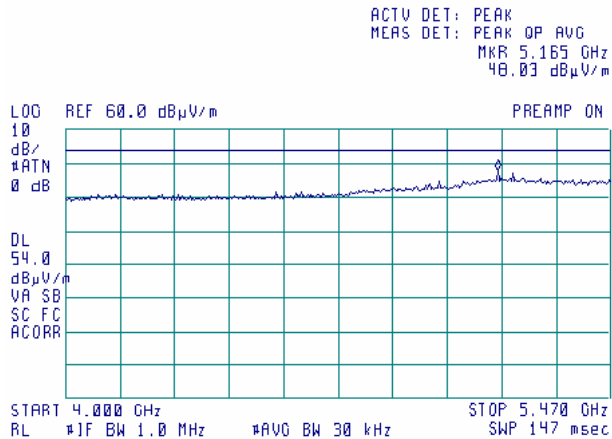
23:13:33 NOV 08, 2009



Plot 7.3.22 Radiated emission measurements from 4.0 to 5.47 GHz at the second mid carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Average

23:12:18 NOV 08, 2009



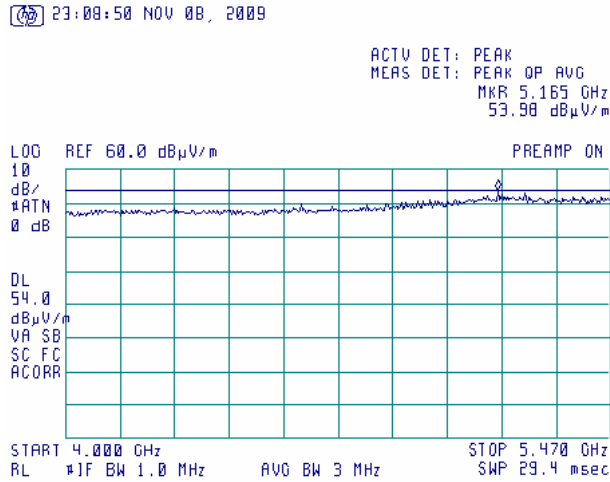


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

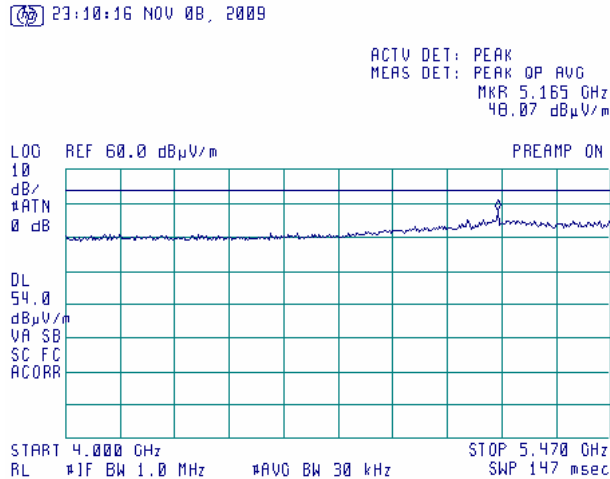
Plot 7.3.23 Radiated emission measurements from 4.0 to 5.47 GHz at the high carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Peak under average limit



Plot 7.3.24 Radiated emission measurements from 4.0 to 5.47 GHz at the high carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Average



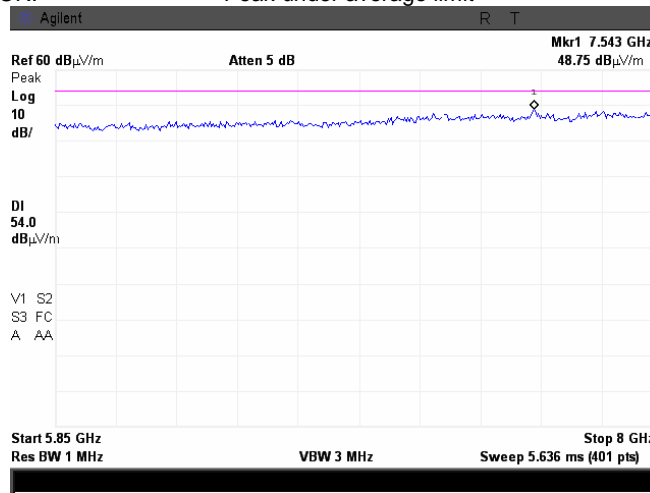


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

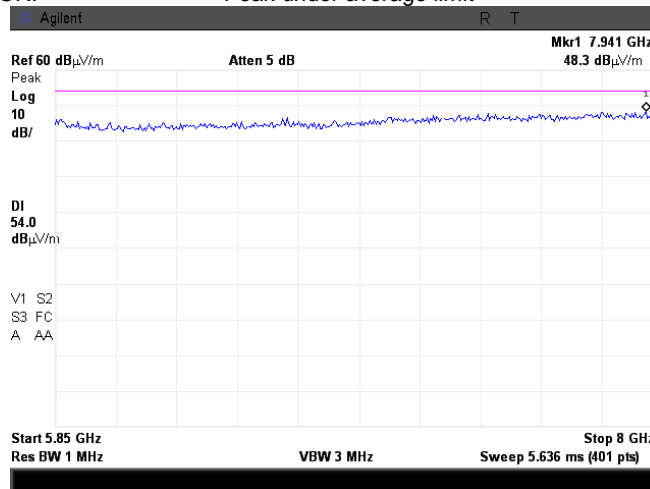
Plot 7.3.25 Radiated emission measurements from 5.85 to 8 GHz at the low carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Peak under average limit



Plot 7.3.26 Radiated emission measurements from 5.85 to 8 GHz at the first mid carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Peak under average limit



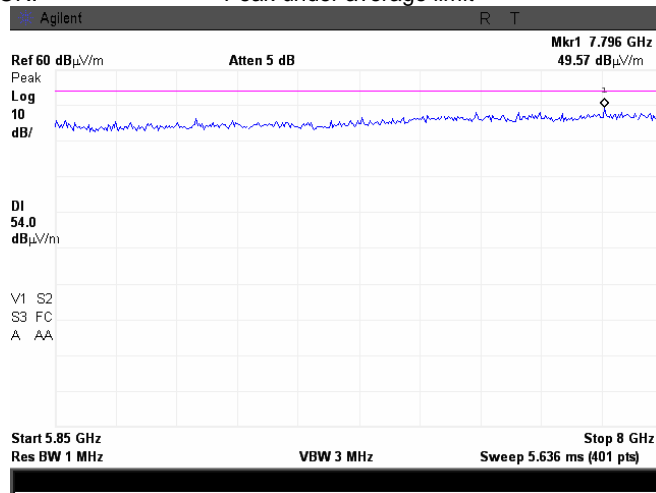


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

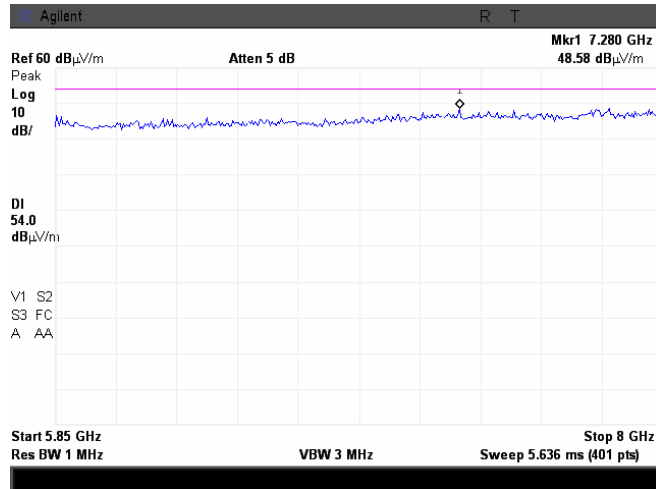
Plot 7.3.27 Radiated emission measurements from 5.85 to 8 GHz at the second mid carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Peak under average limit



Plot 7.3.28 Radiated emission measurements from 5.85 to 8 GHz at the high carrier frequency

TEST SITE: Anechoic chamber  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Peak

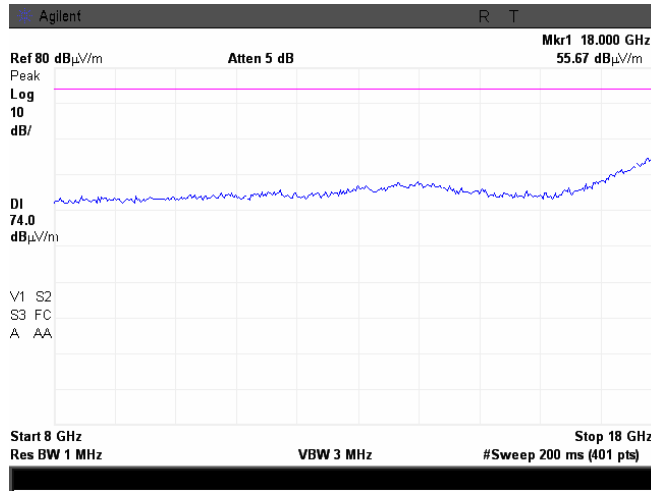




<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

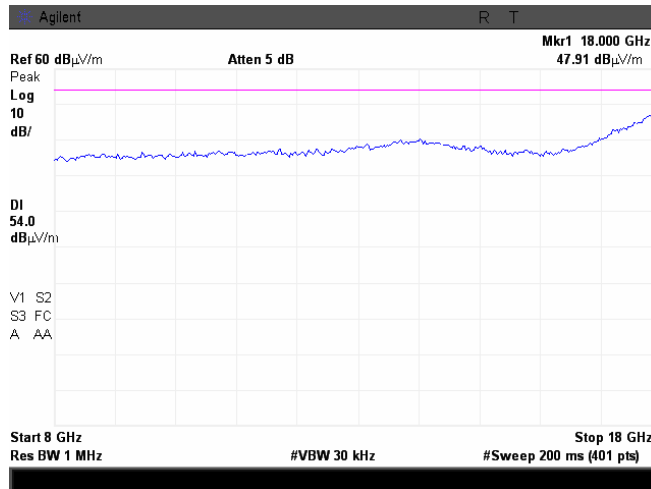
Plot 7.3.29 Radiated emission measurements from 8 to 18 GHz at the low carrier frequency

TEST SITE: Anechoic chamber  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Peak



Plot 7.3.30 Radiated emission measurements from 8 to 18 GHz at the low carrier frequency

TEST SITE: Anechoic chamber  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Average



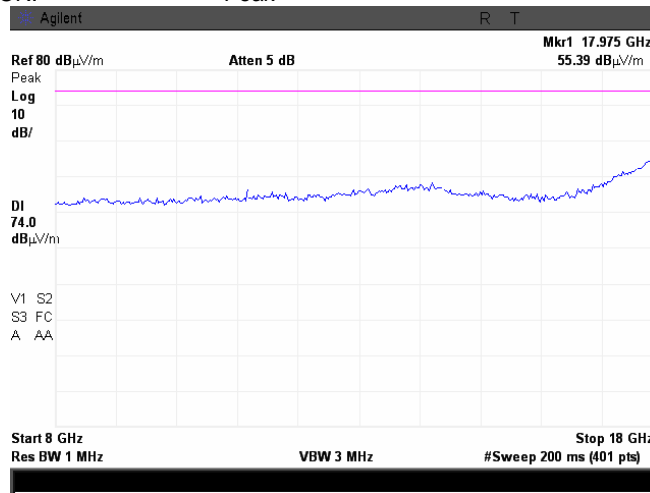


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<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

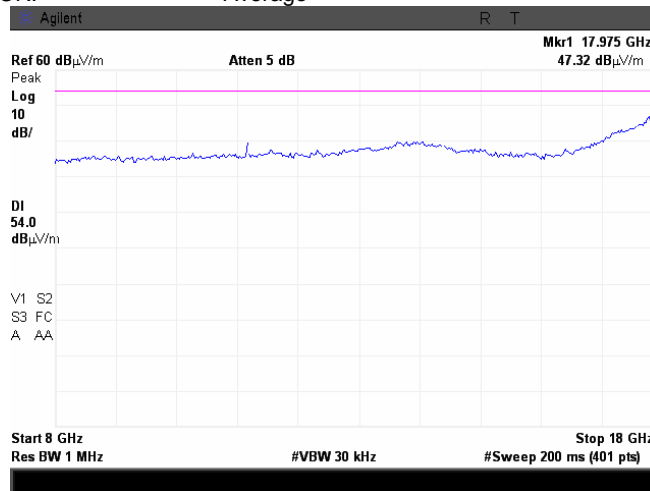
Plot 7.3.31 Radiated emission measurements from 8 to 18 GHz at the first mid carrier frequency

TEST SITE: OATS  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Peak



Plot 7.3.32 Radiated emission measurements from 8 to 18 GHz at the first mid carrier frequency

TEST SITE: OATS  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Average



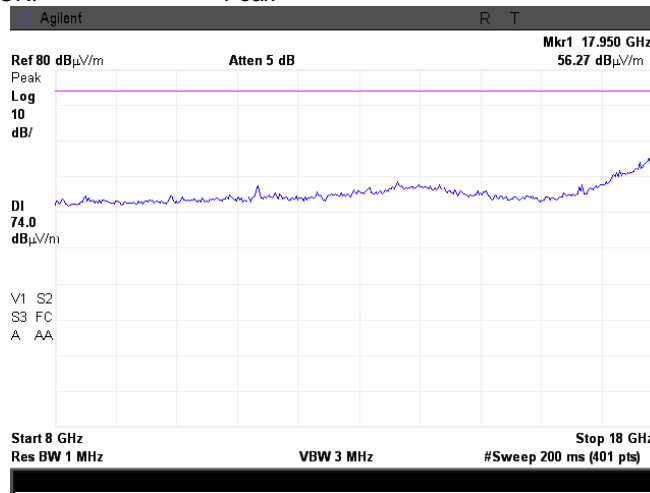


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

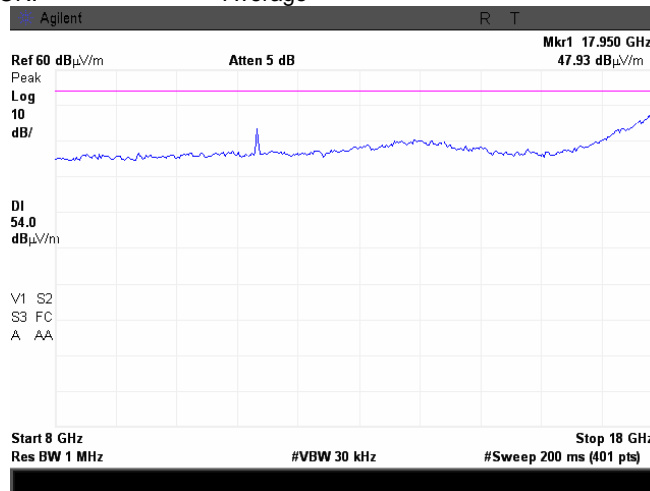
Plot 7.3.33 Radiated emission measurements from 8 to 18 GHz at the second mid carrier frequency

TEST SITE: OATS  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Peak



Plot 7.3.34 Radiated emission measurements from 8 to 18 GHz at the second mid carrier frequency

TEST SITE: OATS  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Average



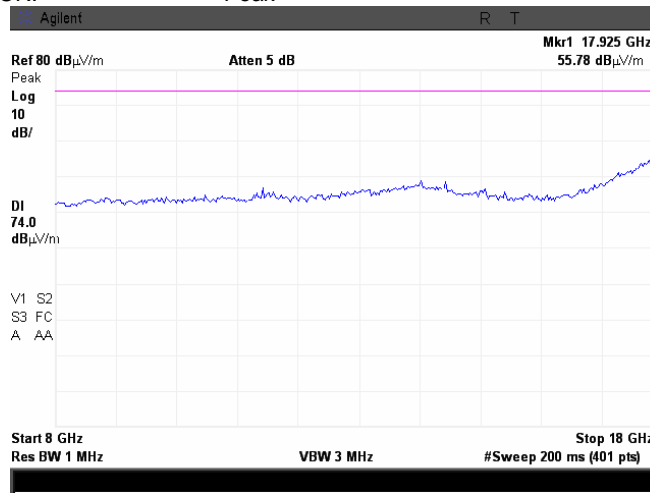


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

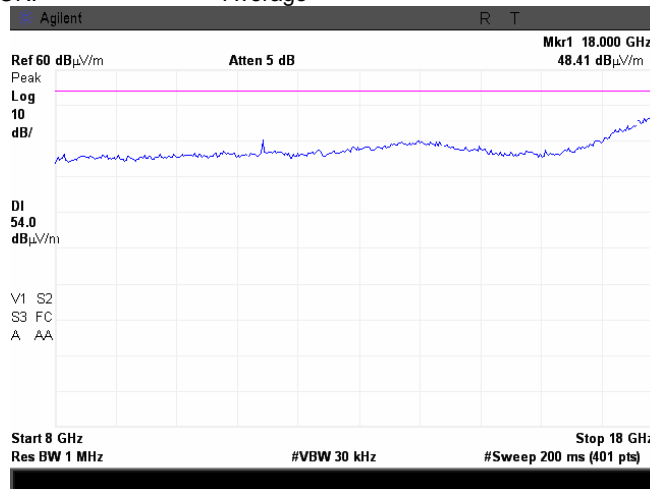
Plot 7.3.35 Radiated emission measurements from 8 to 18 GHz at the high carrier frequency

TEST SITE: OATS  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Peak



Plot 7.3.36 Radiated emission measurements from 8 to 18 GHz at the high carrier frequency

TEST SITE: OATS  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Average

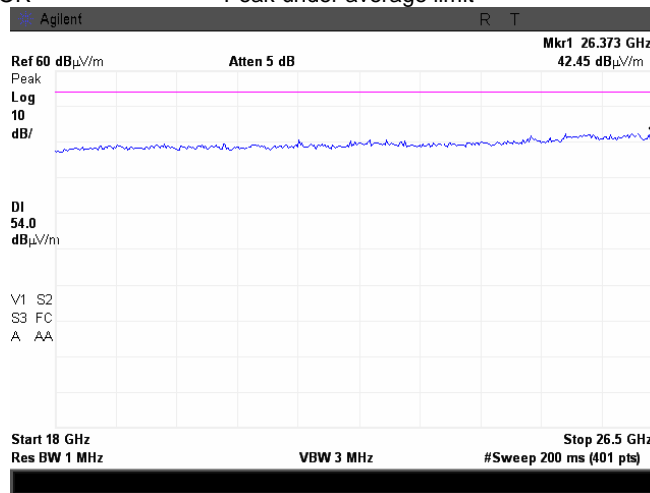




<b>Test specification:</b>		<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions</b>	
<b>Test procedure:</b>		Public notice DA 00-705 / ANSI C63.4, Section 13.1.4	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	11/09/2009		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

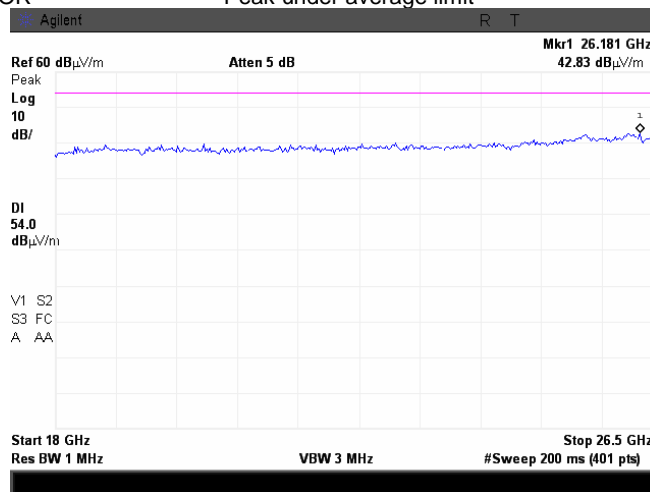
**Plot 7.3.37 Radiated emission measurements from 18 to 26.5 GHz at the low carrier frequency**

TEST SITE: OATS  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Peak under average limit



**Plot 7.3.38 Radiated emission measurements from 18 to 26.5 GHz at the first mid carrier frequency**

TEST SITE: OATS  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Peak under average limit



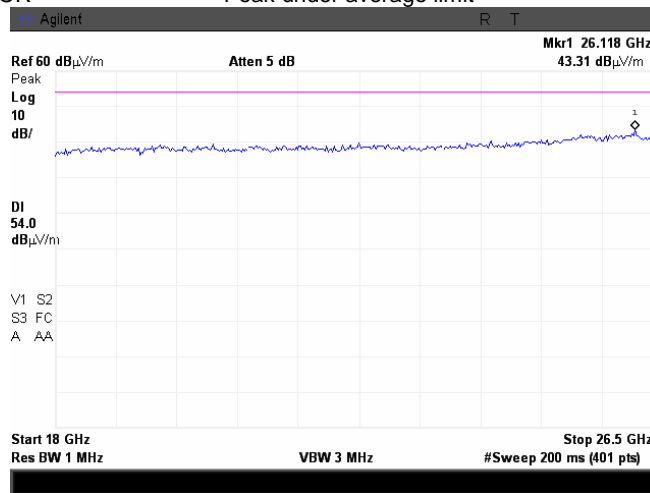


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

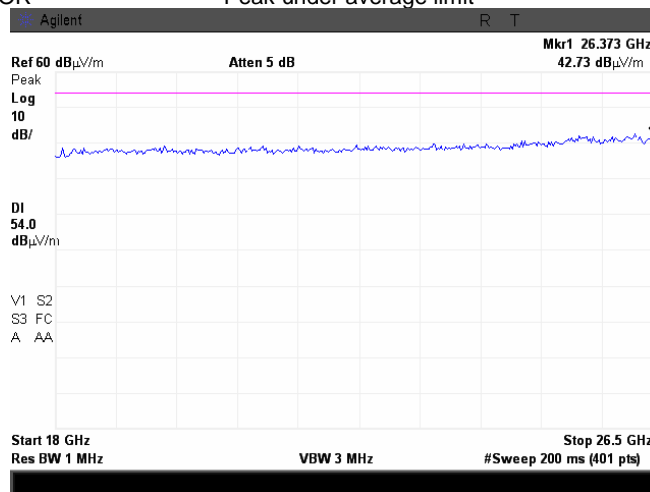
Plot 7.3.39 Radiated emission measurements from 18 to 26.5 GHz at the second mid carrier frequency (5665 MHz)

TEST SITE: OATS  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Peak under average limit



Plot 7.3.40 Radiated emission measurements from 18 to 26.5 GHz at the high carrier frequency (5710 MHz)

TEST SITE: OATS  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Peak under average limit



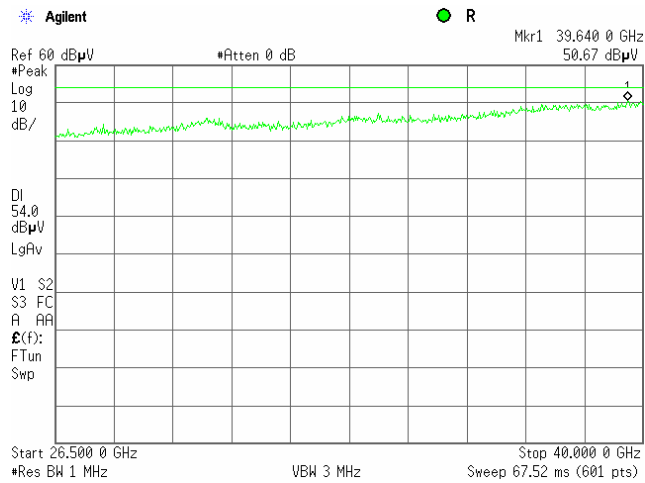


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

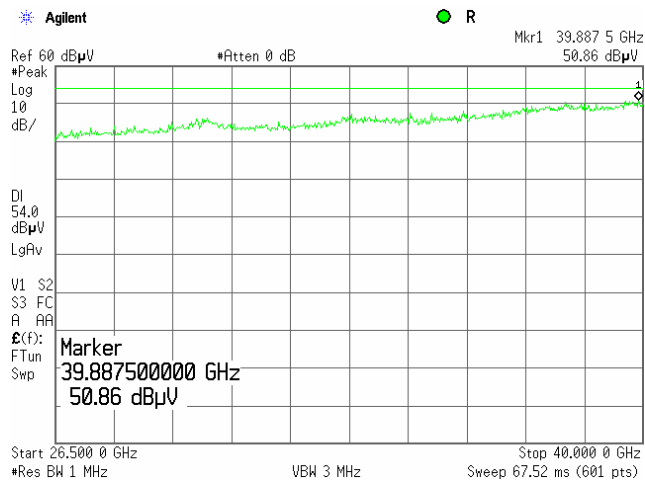
Plot 7.3.41 Radiated emission measurements from 26.5 to 40 GHz at the low carrier frequency

TEST SITE: OATS  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Peak under average limit



Plot 7.3.42 Radiated emission measurements from 26.5 to 40 GHz at the first mid carrier frequency

TEST SITE: OATS  
TEST DISTANCE: 3 m  
ANTENNA POLARIZATION: Vertical and Horizontal  
DETECTOR: Peak under average limit



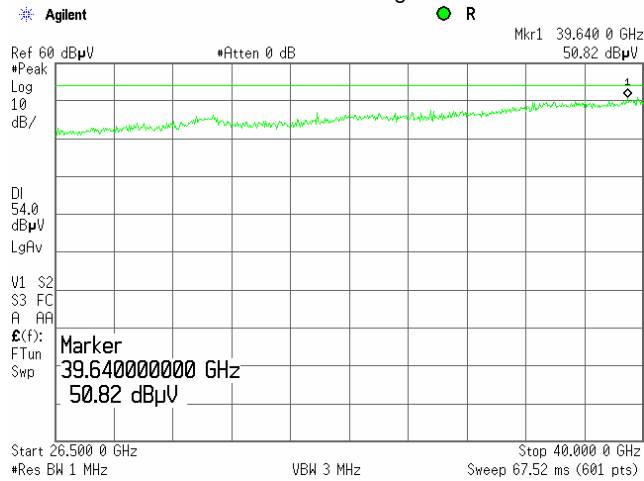


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

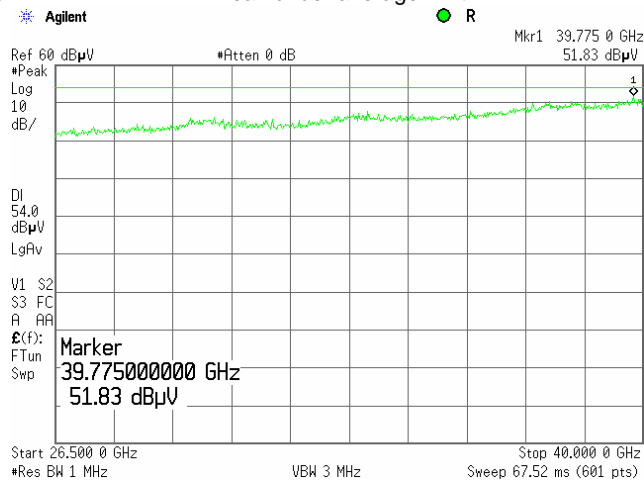
Plot 7.3.43 Radiated emission measurements from 26.5 to 40 GHz at the second mid carrier frequency (5665 MHz)

TEST SITE: OATS  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Peak under average limit



Plot 7.3.44 Radiated emission measurements from 26.5 to 40 GHz at the high carrier frequency (5710 MHz)

TEST SITE: OATS  
 TEST DISTANCE: 3 m  
 ANTENNA POLARIZATION: Vertical and Horizontal  
 DETECTOR: Peak under average limit



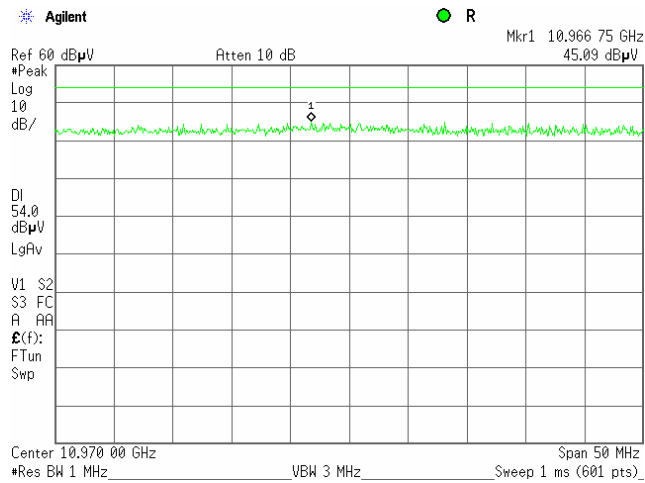


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions</b>		
<b>Test procedure:</b>	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/09/2009		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

**Plot 7.3.45 Radiated emission measurements at the second harmonic of low carrier frequency**

TEST SITE: OATS  
TEST DISTANCE: 3 m  
DETECTOR: Peak under average limit



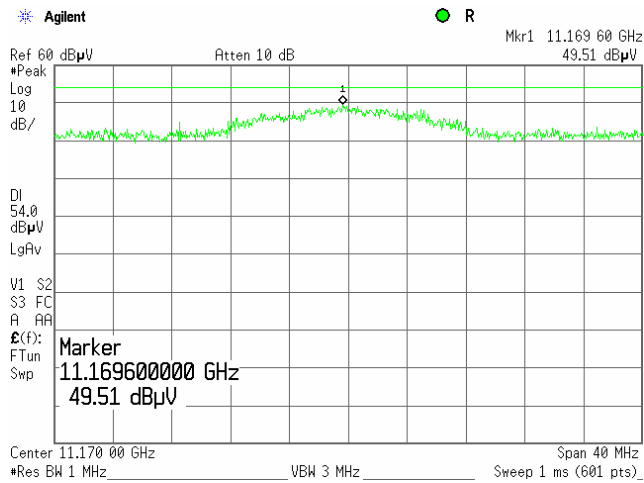


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

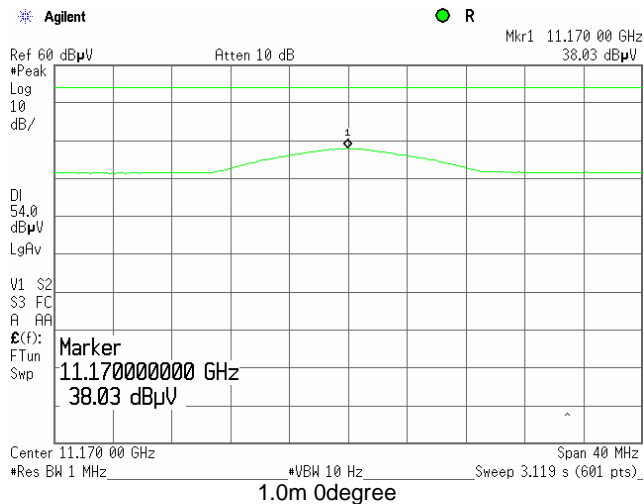
Plot 7.3.46 Radiated emission measurements at the second harmonic of the first mid carrier frequency

TEST SITE: OATS  
TEST DISTANCE: 3 m  
DETECTOR: Peak under average limit



Plot 7.3.47 Radiated emission measurements at the second harmonic of the first mid carrier frequency

TEST SITE: OATS  
TEST DISTANCE: 3 m  
DETECTOR: Average



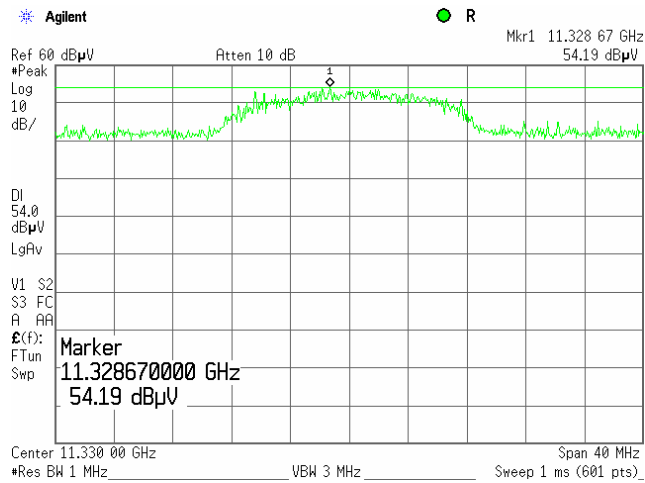


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

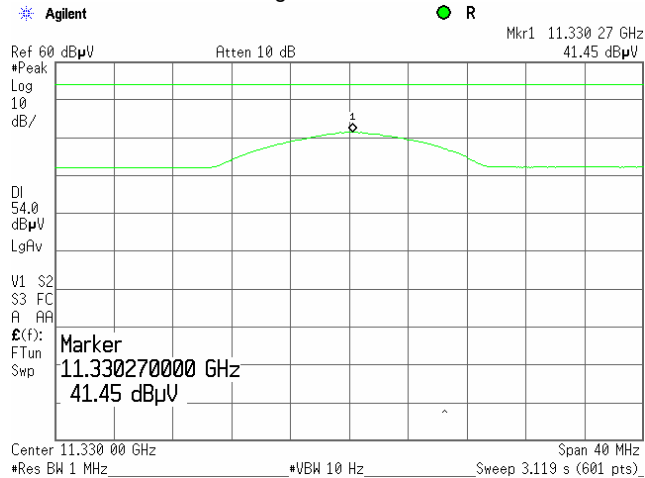
Plot 7.3.48 Radiated emission measurements at the second harmonic of the second mid carrier frequency

TEST SITE: OATS  
TEST DISTANCE: 3 m  
DETECTOR: Peak under average limit



Plot 7.3.49 Radiated emission measurements at the second harmonic of the second mid carrier frequency

TEST SITE: OATS  
TEST DISTANCE: 3 m  
DETECTOR: Average



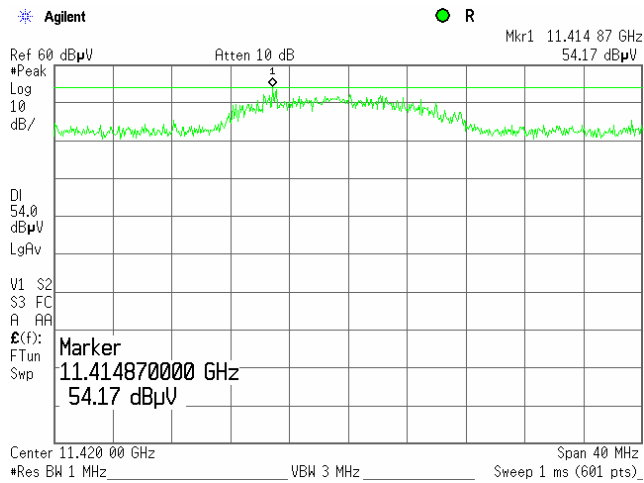


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/09/2009			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1015 hPa	<b>Relative Humidity:</b> 47 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 6 dBi antenna assembly gain, flat antenna			

Plot 7.3.50 Radiated emission measurements at the second harmonic of high carrier frequency

TEST SITE: OATS  
 TEST DISTANCE: 3 m  
 DETECTOR: Peak under average limit



Plot 7.3.51 Radiated emission measurements at the second harmonic of high carrier frequency

TEST SITE: OATS  
 TEST DISTANCE: 3 m  
 DETECTOR: Average

