

# 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**

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## 1 Applicant information

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**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** 11/25/2008

## 3 Manufacturer information

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

## 4 Test details

**Project ID:** 19241  
**Location:** Hermon Laboratories Ltd. P.O.Box 23, Binyamina 30500, Israel  
**Test started:** 11/25/2008  
**Test completed:** 12/28/2008  
**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
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.19241\_21882".

	Name and Title	Date	Signature
<b>Tested by:</b>	Mr. E. Plotnichenko, test engineer	December 28, 2008	
<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	Connected		Connector type	Q-ty	Cable type	Cable length, m	Indoor / outdoor
		From	To					
Power	-48 VDC	AC/DC adapter	IDU	Terminal block	1	unshielded	1.5	Indoor
Power	AC power	mains	AC/DC adapter	IEC 60320	1	unshielded	1.5	Indoor
RF1	RF1 (Antenna 1)	EUT	antenna	N-type	1	shielded	1	Outdoor*
RF2	RF2 (Antenna 2)	EUT	antenna	N-type	1	shielded	1	Outdoor*
Signal	DC + Ethernet	IDU	EUT	RJ45	1	shielded	20	Outdoor
Signal	Ethernet	IDU	Laptop	RJ45	1	FTP	1.5	Indoor

\* - for external antenna configuration only

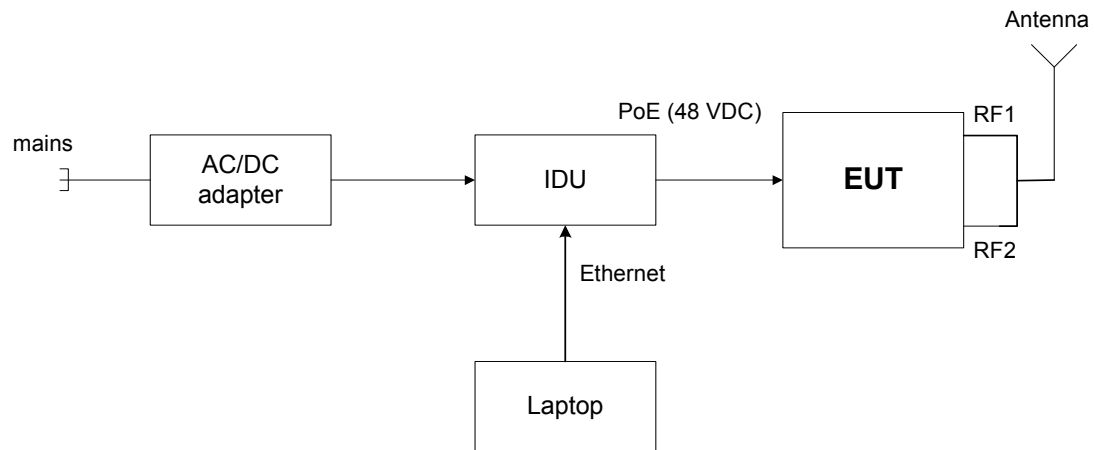
### 6.3 Support and test equipment

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



## 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>	7.3 dBm with 22.5 dBi antenna 6.3 dBm with 23.5 dBi antenna 1.6 dBm with 27.9 dBi antenna 7.2 dBm with 15.5 dBi antenna 7.2 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 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 dB feeder loss)
Dish – Dual polarized External	RADWIN Ltd.	RW-9721-5158	27.9 dBi (28.9 dBi with 1 dB feeder loss)
Flat Panel Dual Pole External	RADWIN Ltd.	RW-9061-5002	15.5 dBi (16.5 dBi with 1 dB feeder loss)
Flat Panel Dual Pole External	RADWIN Ltd.	RW-9061-5001	13.0 dBi (14.0 dBi with 1 dB feeder loss)
<b>Transmitter 99% power 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
<b>Maximum transmitter duty cycle in normal use</b>	40%		
<b>Transmitter duty cycle supplied for test</b>	100%		

Table 6.6.1 Measurement frequencies according to FCC part 15 subpart E requirements

Channel bandwidth, MHz	Channel frequency, MHz		
	Low	Mid	High
5	5480	5590	5715
10	5485	5585	5710
20	5490	5580	5705
40	5500, 5505	5565, 5570	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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<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.

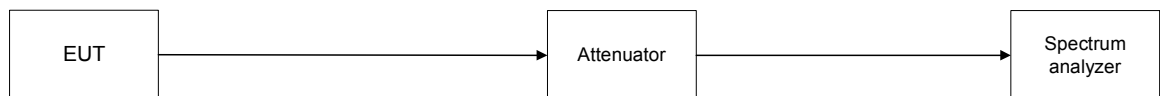
7.1.2.3 The measurements were performed in continuous transmission mode of operation for carrier (channel) frequencies at low and high edges and at the middle of the frequency range shown in Table 7.1.1. The transmitter 26 dB bandwidth was measured with spectrum analyzer as frequency delta between reference points on modulation envelope and provided in Table 7.1.2, Table 7.1.4 and associated 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 with a sample detector. The power was computed by integrating the spectrum across the 26 dB bandwidth of the signal as provided in Table 7.1.2, Table 7.1.4 and associated 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 Table 7.1.5, Table 7.1.5 and associated plots.

Figure 7.1.1 Peak output power test setup







<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

**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: 16.5dBi  
 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	46.15	27	BPSK	3.04	6.04	13.5	-7.46	Pass
5505	46.05	270	64QAM	3.73	6.73	13.5	-6.77	Pass
<b>Low channel</b>								
5500	48.00	27	BPSK	0.45	3.45	13.5	-10.05	Pass
5500	47.55	270	64QAM	0.88	3.88	13.5	-9.62	Pass
<b>First mid channel In-Band</b>								
5565	46.20	27	BPSK	3.44	6.44	13.5	-7.06	Pass
5565	46.05	270	64QAM	3.48	6.48	13.5	-7.02	Pass
<b>First mid channel</b>								
5570	47.85	27	BPSK	-0.23	2.77	13.5	-10.73	Pass
5570	46.65	270	64QAM	-0.15	2.85	13.5	-10.65	Pass
<b>Second mid channel (for IC only) In-Band</b>								
5685	46.20	27	BPSK	1.27	4.27	13.5	-9.23	Pass
5685	45.45	270	64QAM	0.92	3.92	13.5	-9.58	Pass
<b>Second mid channel (for IC only)</b>								
5680	47.55	27	BPSK	-1.31	1.69	13.5	-11.81	Pass
5680	47.55	270	64QAM	-1.28	1.72	13.5	-11.78	Pass
<b>High channel In-Band</b>								
5690	46.50	27	BPSK	1.46	4.46	13.5	-9.04	Pass
5690	46.75	270	64QAM	1.71	4.71	13.5	-8.79	Pass
<b>High channel</b>								
5695	47.55	27	BPSK	-1.66	1.34	13.5	-12.16	Pass
5695	46.80	270	64QAM	-1.62	1.38	13.5	-12.12	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.



<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

Table 7.1.3 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)

Frequency, MHz	26 dB Bandwidth	Bit Rate, MBps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel</b>								
5490	23.850	13	BPSK	4.28	7.28	13.5	-6.22	Pass
5490	23.400	130	64QAM	4.17	7.17	13.5	-6.33	Pass
5485	12.800	6.5	BPSK	1.31	4.31	11.6	-7.26	Pass
5485	12.450	65	64QAM	1.43	4.43	11.5	-7.02	Pass
5480	6.800	3.25	BPSK	-1.32	1.68	8.8	-7.15	Pass
5480	7.000	32.5	64QAM	-1.63	1.37	9.0	-7.58	Pass
<b>First mid channel</b>								
5580	24.000	13	BPSK	3.84	6.84	13.5	-6.66	Pass
5580	23.400	130	64QAM	4.03	7.03	13.5	-6.47	Pass
5585	12.950	6.5	BPSK	0.41	3.41	11.6	-8.21	Pass
5585	12.300	65	64QAM	0.38	3.38	11.4	-8.02	Pass
5590	6.950	3.25	BPSK	-2.46	0.54	8.9	-8.38	Pass
5590	7.000	32.5	64QAM	-2.69	0.31	9.0	-8.64	Pass
<b>Second mid channel (for IC only)</b>								
5670	24.150	13	BPSK	2.63	5.63	13.5	-7.87	Pass
5670	23.700	130	64QAM	2.65	5.65	13.5	-7.85	Pass
5665	12.750	6.5	BPSK	-0.96	2.04	11.6	-9.52	Pass
5665	12.650	65	64QAM	-0.58	2.42	11.5	-9.10	Pass
5660	6.825	3.25	BPSK	-3.64	-0.64	8.8	-9.48	Pass
5660	6.700	32.5	64QAM	-3.29	-0.29	8.8	-9.05	Pass
<b>High channel</b>								
5705	23.775	13	BPSK	2.52	5.52	13.5	-7.98	Pass
5705	23.625	130	64QAM	2.01	5.01	13.5	-8.49	Pass
5710	12.900	6.5	BPSK	-1.31	1.69	11.6	-9.92	Pass
5710	12.500	65	64QAM	-1.36	1.64	11.5	-9.83	Pass
5715	7.175	3.25	BPSK	-3.15	-0.15	9.1	-9.21	Pass
5715	7.125	32.5	64QAM	-3.09	-0.09	9.0	-9.12	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.



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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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

**Table 7.1.4 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: 16.5dBi  
 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	0.5	-14.43	Pass
5505	270	64QAM	-16.66	-13.66	0.5	-14.16	Pass
<b>Low channel</b>							
5500	27	BPSK	-18.84	-15.84	0.5	-16.34	Pass
5500	270	64QAM	-19.15	-16.15	0.5	-16.65	Pass
<b>First mid channel In-Band</b>							
5565	27	BPSK	-16.82	-13.82	0.5	-14.32	Pass
5565	270	64QAM	-16.89	-13.89	0.5	-14.39	Pass
<b>First mid channel</b>							
5570	27	BPSK	-19.96	-16.96	0.5	-17.46	Pass
5570	270	64QAM	-19.70	-16.70	0.5	-17.20	Pass
<b>Second mid channel (for IC only) In-Band</b>							
5685	27	BPSK	-18.32	-15.32	0.5	-15.82	Pass
5685	270	64QAM	-18.79	-15.79	0.5	-16.29	Pass
<b>Second mid channel (for IC only)</b>							
5680	27	BPSK	-20.87	-17.87	0.5	-18.37	Pass
5680	270	64QAM	-20.73	-17.73	0.5	-18.23	Pass
<b>High channel In-Band</b>							
5690	27	BPSK	-18.59	-15.89	0.5	-16.09	Pass
5690	270	64QAM	-18.67	-15.67	0.5	-16.17	Pass
<b>High channel</b>							
5695	27	BPSK	-21.75	-18.75	0.5	-19.25	Pass
5695	270	64QAM	-21.32	-18.32	0.5	-18.82	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.



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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>	11/25/2008				
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC		
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain					

**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)

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	-13.00	-10.00	0.5	-10.50	Pass
5490	130	64QAM	-12.65	-9.65	0.5	-10.15	Pass
5485	6.5	BPSK	-13.27	-10.27	0.5	-10.77	Pass
5485	65	64QAM	-12.98	-9.98	0.5	-10.48	Pass
5480	3.25	BPSK	-12.91	-9.91	0.5	-10.41	Pass
5480	32.5	64QAM	-13.22	-10.22	0.5	-10.72	Pass
<b>First mid channel</b>							
5580	13	BPSK	-13.18	-10.18	0.5	-10.68	Pass
5580	130	64QAM	-13.06	-10.06	0.5	-10.56	Pass
5585	6.5	BPSK	-14.40	-11.40	0.5	-11.90	Pass
5585	65	64QAM	-14.23	-11.23	0.5	-11.73	Pass
5590	3.25	BPSK	-14.41	-11.41	0.5	-11.91	Pass
5590	32.5	64QAM	-14.17	-11.17	0.5	-11.67	Pass
<b>Second mid channel (for IC only)</b>							
5670	13	BPSK	-14.23	-11.23	0.5	-11.73	Pass
5670	130	64QAM	-14.38	-11.38	0.5	-11.88	Pass
5665	6.5	BPSK	-15.21	-12.21	0.5	-12.71	Pass
5665	65	64QAM	-15.23	-12.23	0.5	-12.73	Pass
5660	3.25	BPSK	-15.19	-12.19	0.5	-12.69	Pass
5660	32.5	64QAM	-14.90	-11.90	0.5	-12.40	Pass
<b>High channel</b>							
5705	13	BPSK	-14.64	-11.64	0.5	-12.14	Pass
5705	130	64QAM	-15.07	-12.07	0.5	-12.57	Pass
5710	6.5	BPSK	-16.00	-13.00	0.5	-13.50	Pass
5710	65	64QAM	-15.57	-12.57	0.5	-13.07	Pass
5715	3.25	BPSK	-14.86	-11.86	0.5	-12.36	Pass
5715	32.5	64QAM	-14.62	-11.62	0.5	-12.12	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 2883	HL 3180					
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Full description is given in Appendix A.

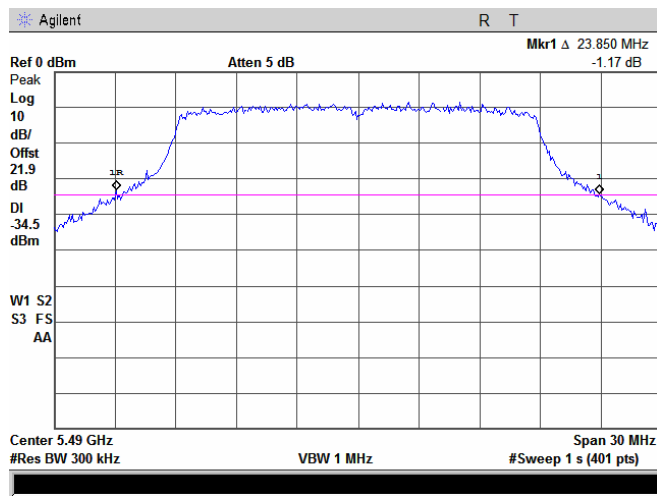


HERMON LABORATORIES

<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> 11/25/2008			
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

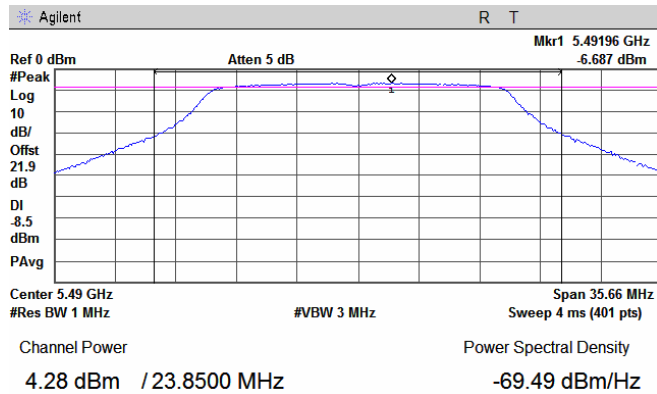
Plot 7.1.1 The 26 dB emission bandwidth

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



Plot 7.1.2 Peak output power

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



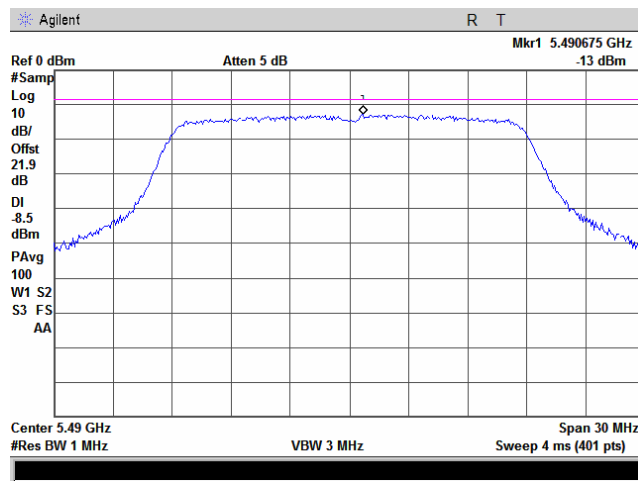


HERMON LABORATORIES

<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>	11/25/2008	<b>Relative Humidity:</b>	52 %
<b>Temperature:</b>	23 °C	<b>Air Pressure:</b>	1012 hPa
<b>Remarks:</b>	EUT with 22.5 dBi antenna assembly gain	<b>Power Supply:</b>	120 VAC

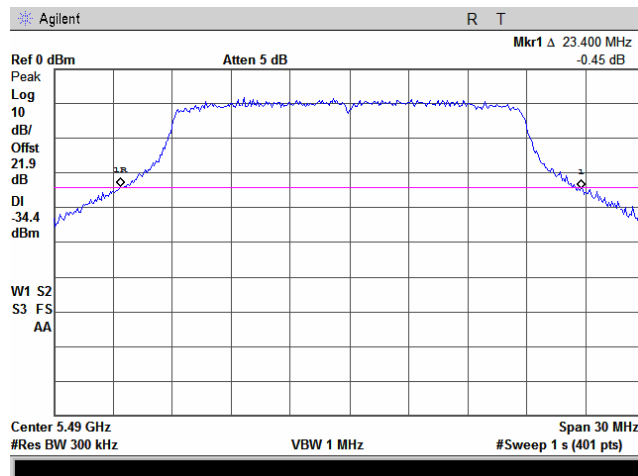
Plot 7.1.3 Peak spectral power density

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



Plot 7.1.4 The 26 dB emission bandwidth

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



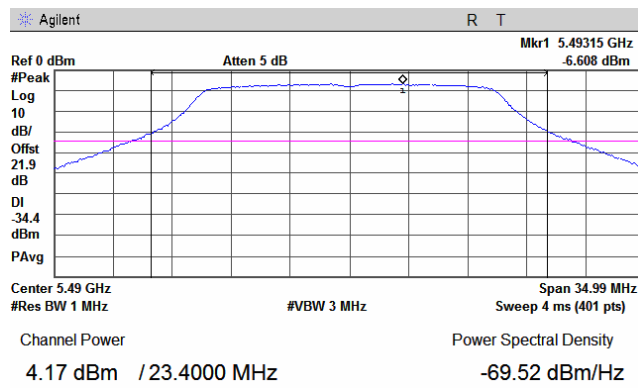


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

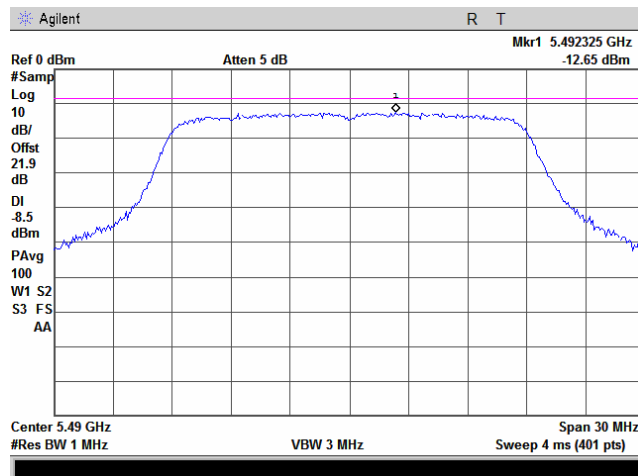
Plot 7.1.5 Peak output power

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



Plot 7.1.6 Peak spectral power density

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



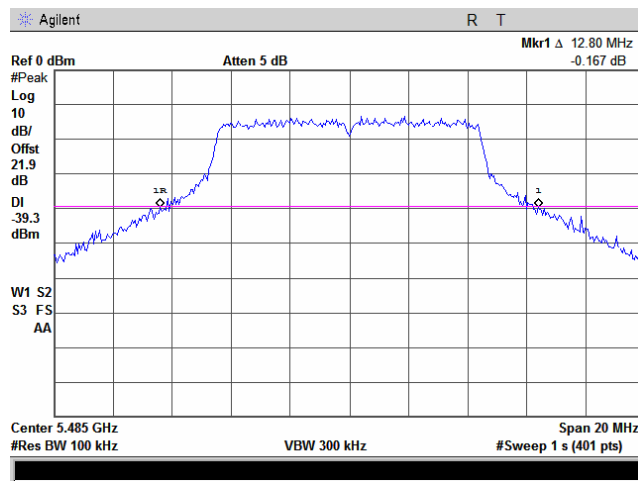


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

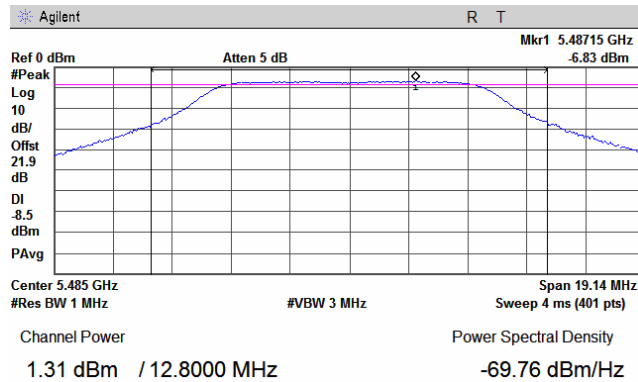
Plot 7.1.7 The 26 dB emission bandwidth

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



Plot 7.1.8 Peak output power

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





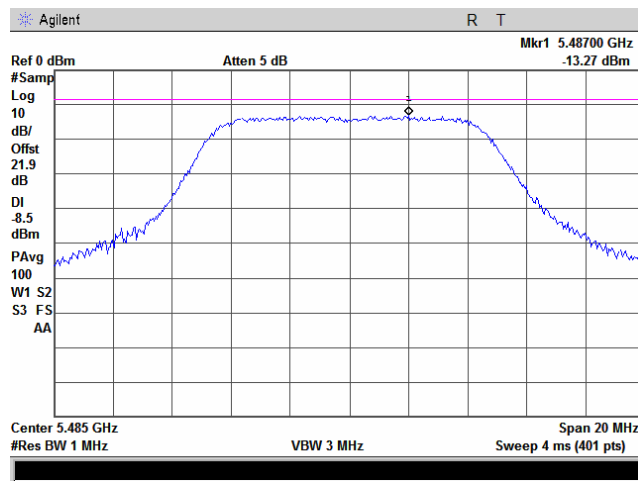


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

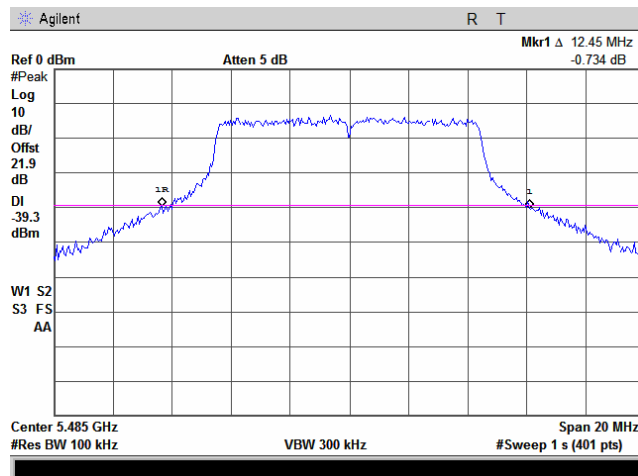
Plot 7.1.9 Peak spectral power density

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



Plot 7.1.10 The 26 dB emission bandwidth

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



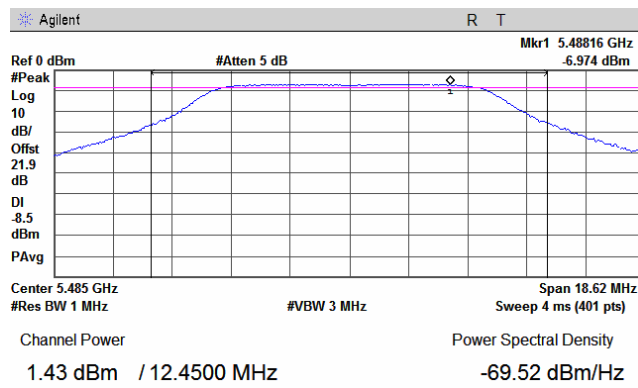


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

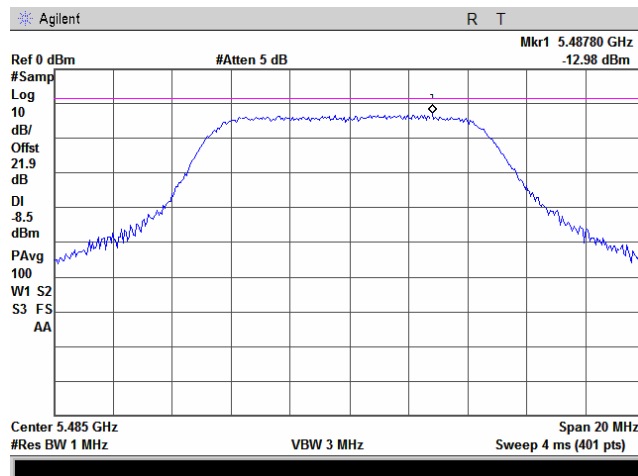
Plot 7.1.11 Peak output power

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



Plot 7.1.12 Peak spectral power density

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



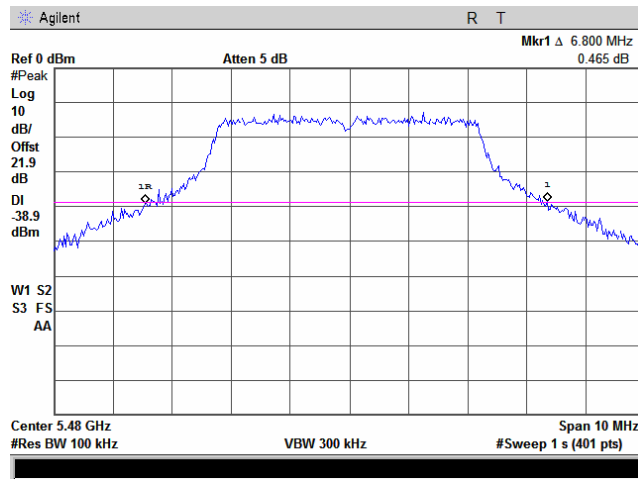


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

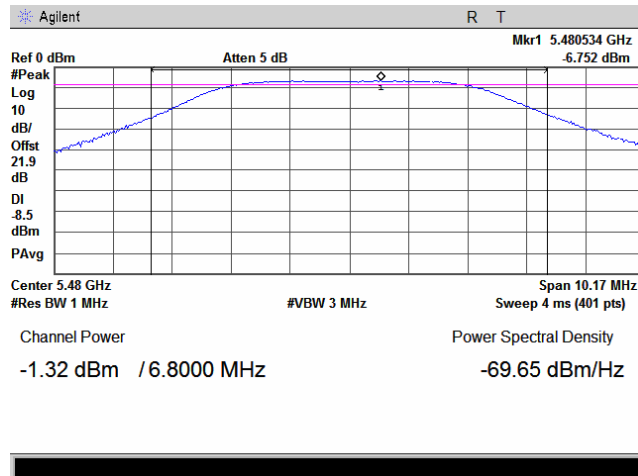
Plot 7.1.13 The 26 dB emission bandwidth

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



Plot 7.1.14 Peak output power

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



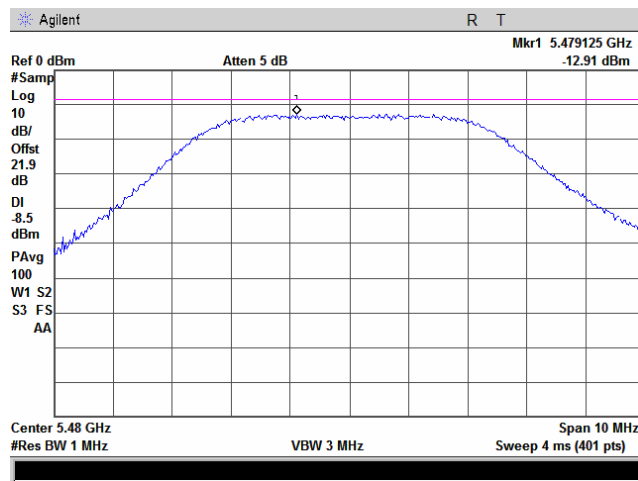


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

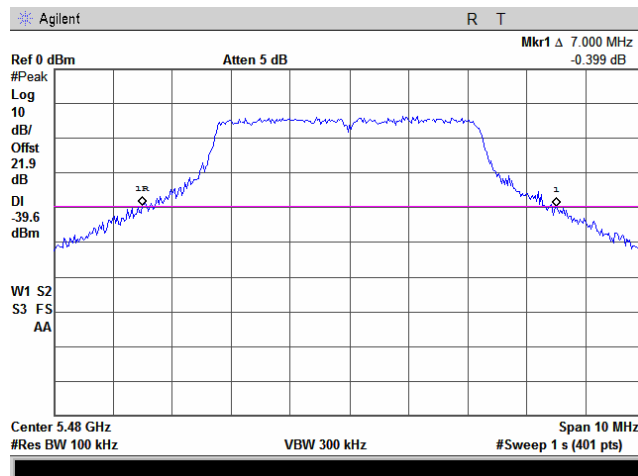
Plot 7.1.15 Peak spectral power density

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



Plot 7.1.16 The 26 dB emission bandwidth

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



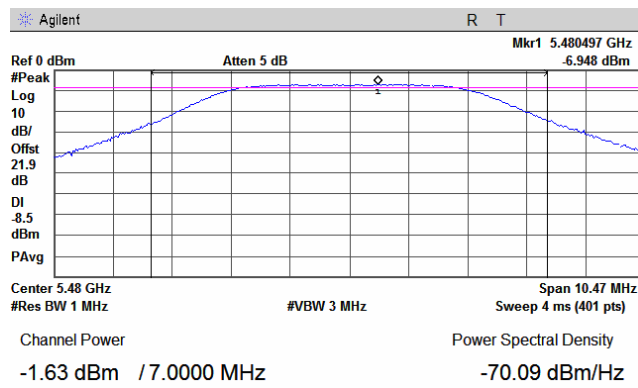


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

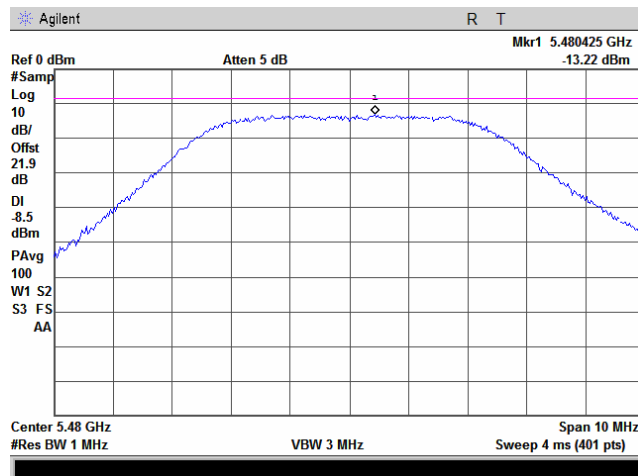
Plot 7.1.17 Peak output power

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



Plot 7.1.18 Peak spectral power density

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



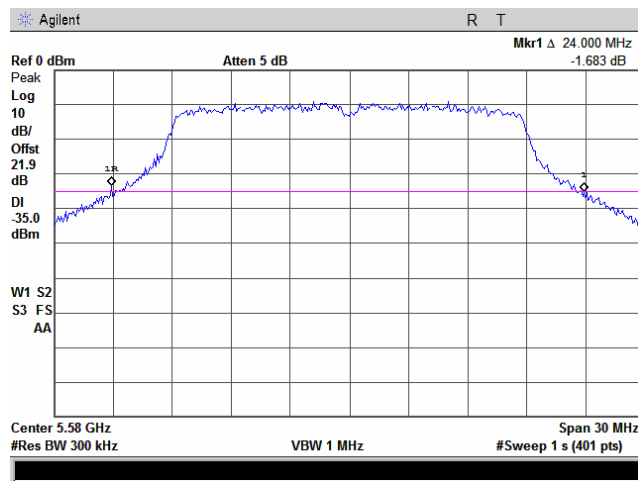


HERMON LABORATORIES

<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> 11/25/2008			
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

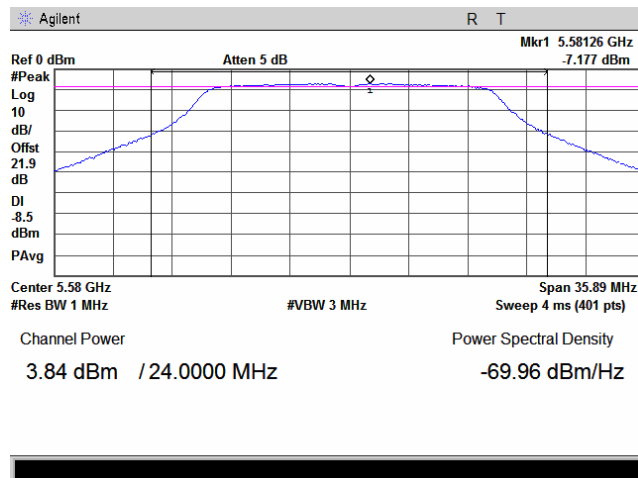
Plot 7.1.19 The 26 dB emission bandwidth

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



Plot 7.1.20 Peak output power

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



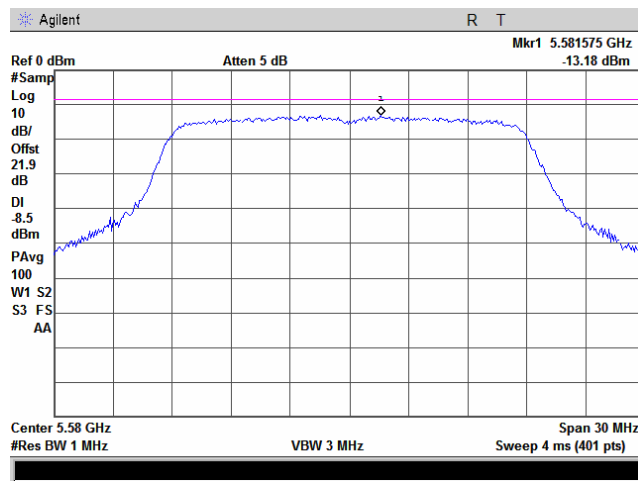


HERMON LABORATORIES

<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> 11/25/2008			
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

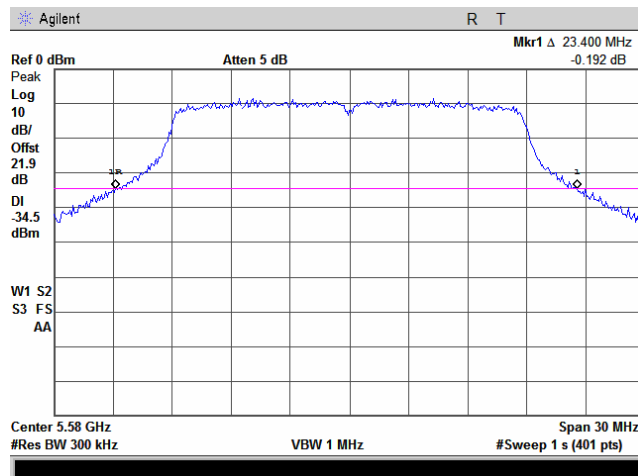
Plot 7.1.21 Peak spectral power density

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



Plot 7.1.22 The 26 dB emission bandwidth

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



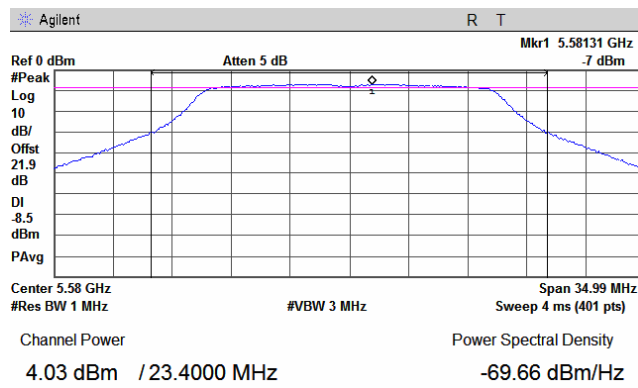


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

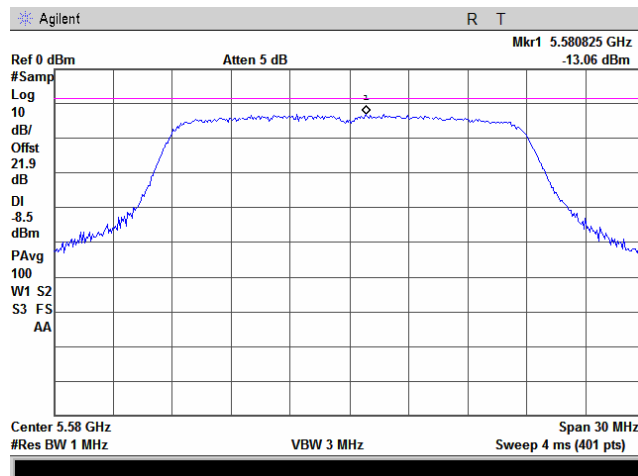
Plot 7.1.23 Peak output power

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



Plot 7.1.24 Peak spectral power density

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





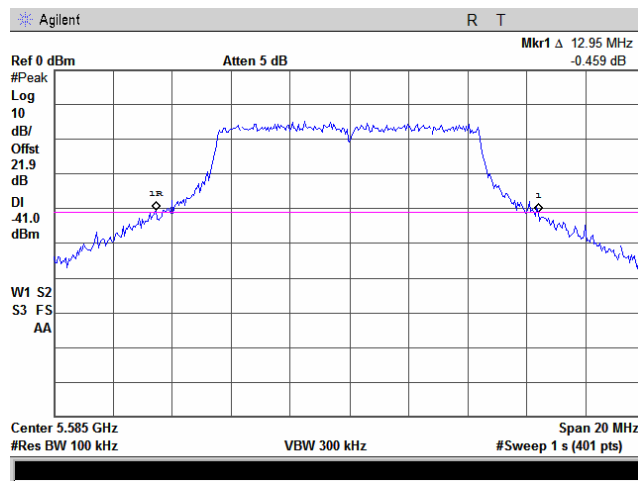


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

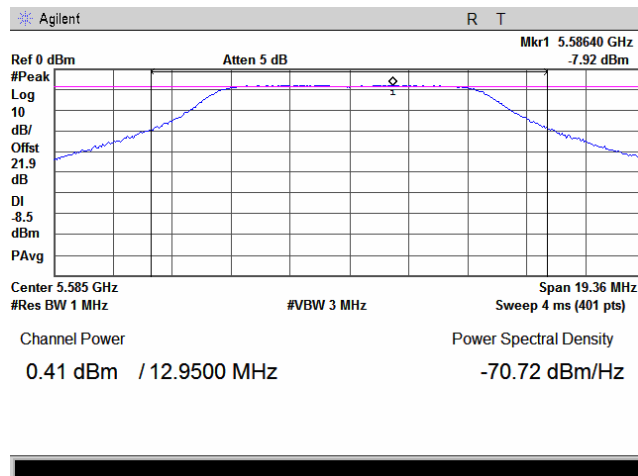
Plot 7.1.25 The 26 dB emission bandwidth

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



Plot 7.1.26 Peak output power

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



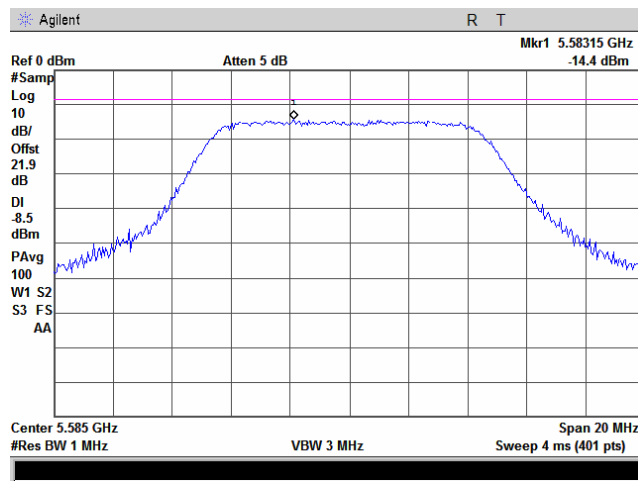


HERMON LABORATORIES

<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>	<b>PASS</b>
<b>Date:</b>	11/25/2008	<b>Relative Humidity:</b>	52 %
<b>Temperature:</b>	23 °C	<b>Air Pressure:</b>	1012 hPa
<b>Remarks:</b>	EUT with 22.5 dBi antenna assembly gain	<b>Power Supply:</b>	120 VAC

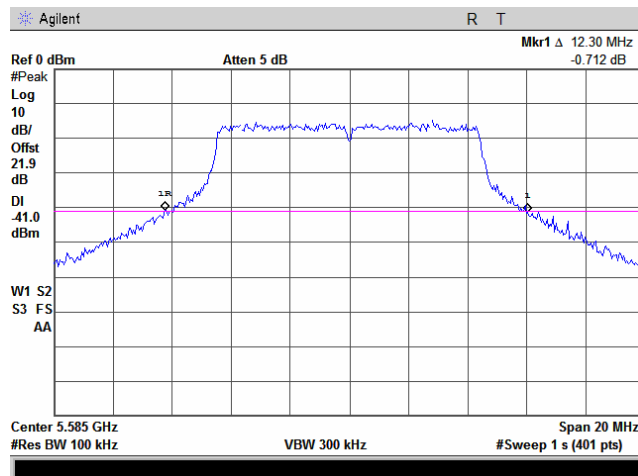
Plot 7.1.27 Peak spectral power density

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



Plot 7.1.28 The 26 dB emission bandwidth

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



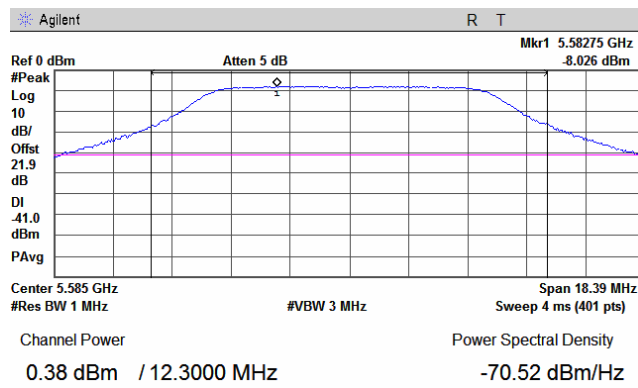


HERMON LABORATORIES

<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> 11/25/2008			
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

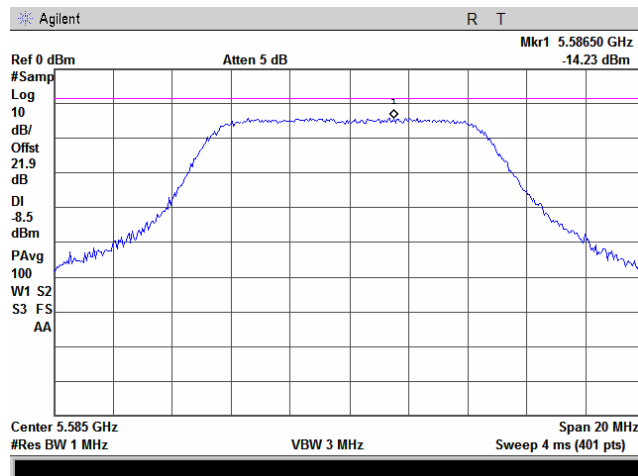
Plot 7.1.29 Peak output power

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



Plot 7.1.30 Peak spectral power density

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



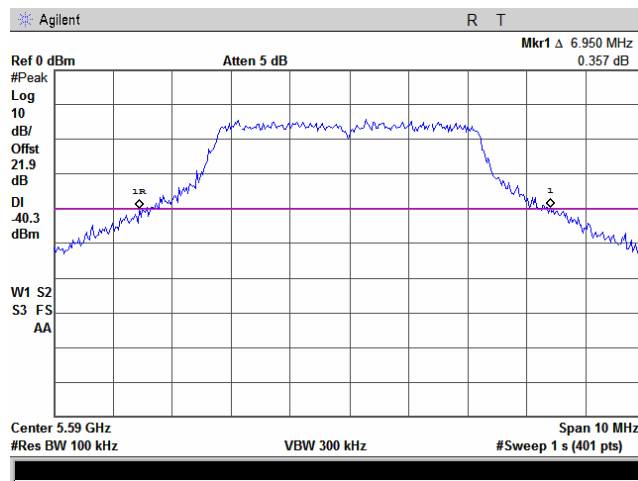


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

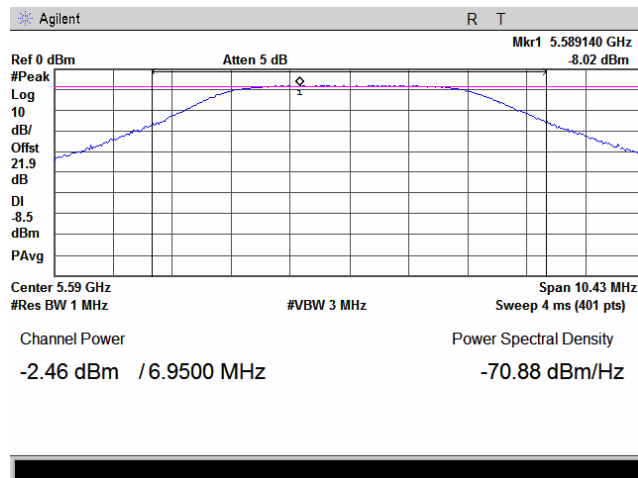
Plot 7.1.31 The 26 dB emission bandwidth

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



Plot 7.1.32 Peak output power

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



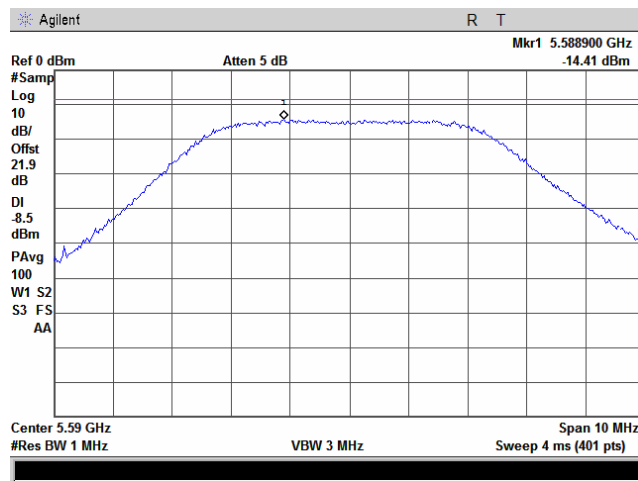


HERMON LABORATORIES

<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> 11/25/2008			
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

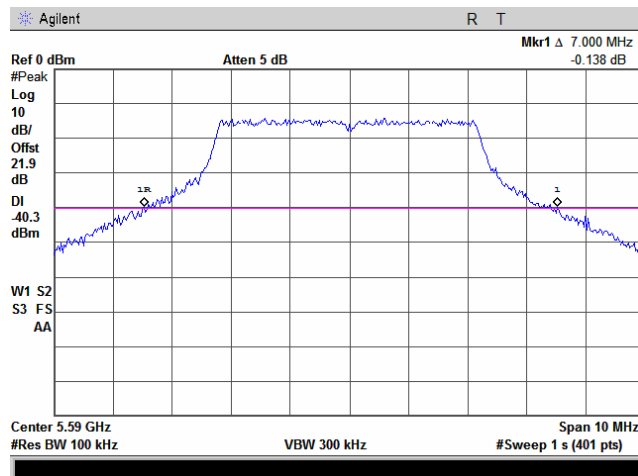
Plot 7.1.33 Peak spectral power density

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



Plot 7.1.34 The 26 dB emission bandwidth

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



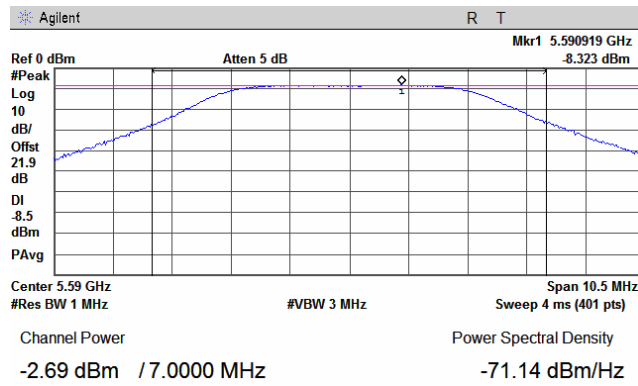


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

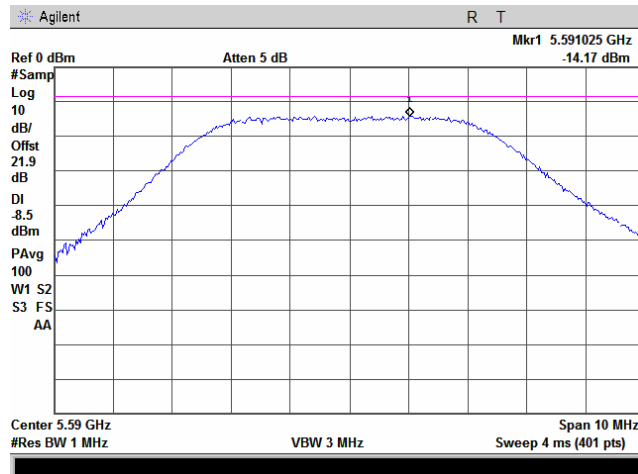
Plot 7.1.35 Peak output power

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



Plot 7.1.36 Peak spectral power density

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



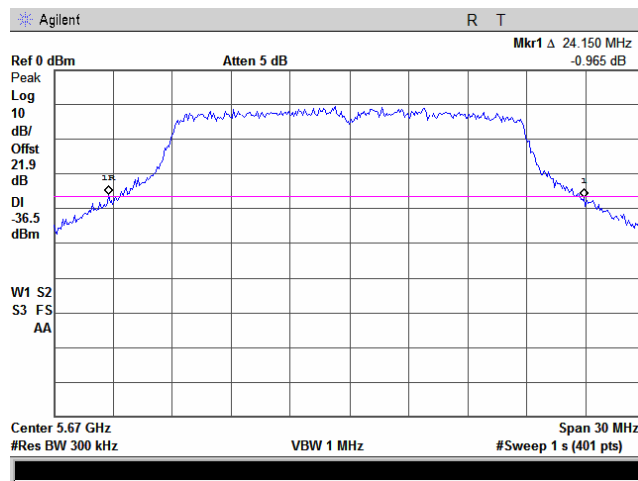


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<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/25/2008			
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

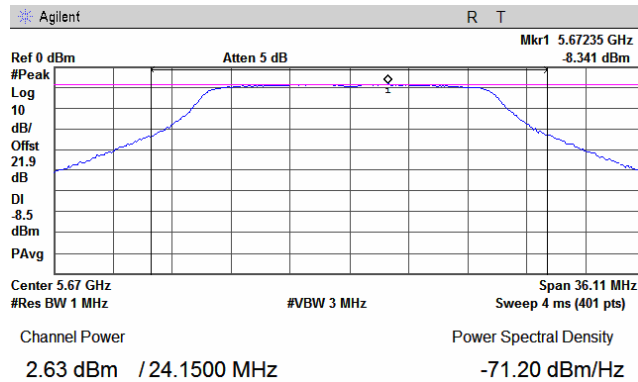
Plot 7.1.37 The 26 dB emission bandwidth

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



Plot 7.1.38 Peak output power

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



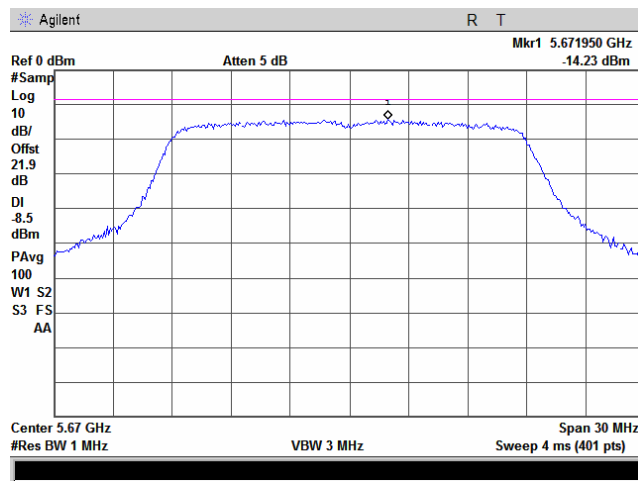


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<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/25/2008			
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

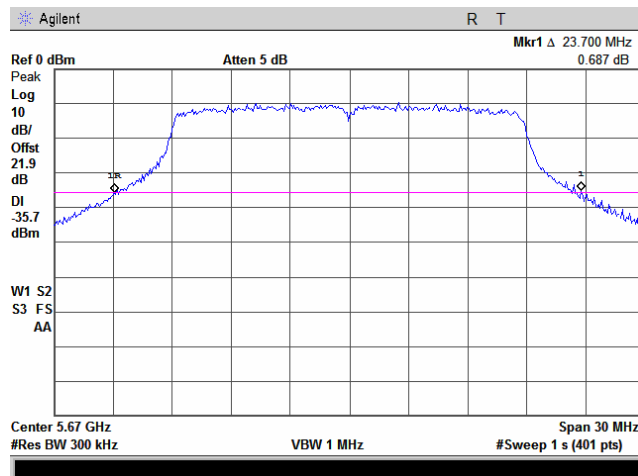
Plot 7.1.39 Peak spectral power density

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



Plot 7.1.40 The 26 dB emission bandwidth

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





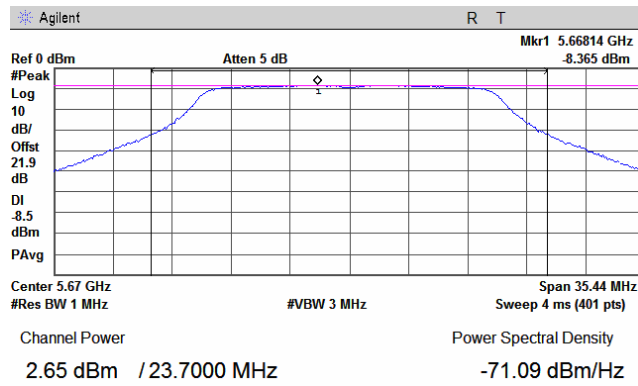


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<b>Test specification:</b>	<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

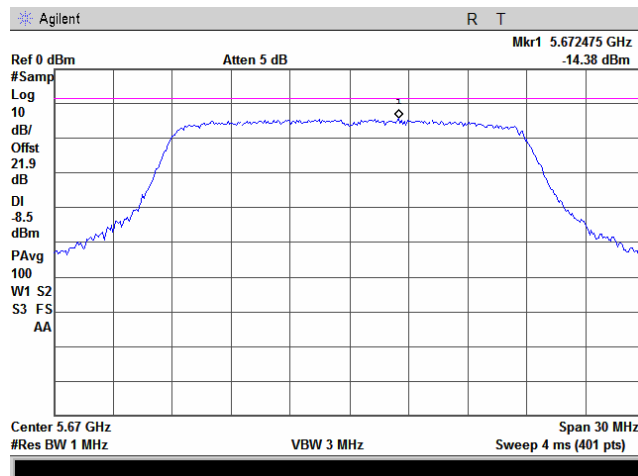
Plot 7.1.41 Peak output power

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



Plot 7.1.42 Peak spectral power density

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



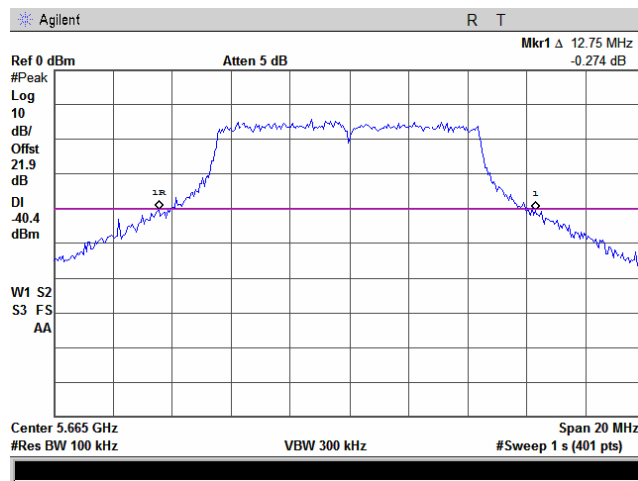


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

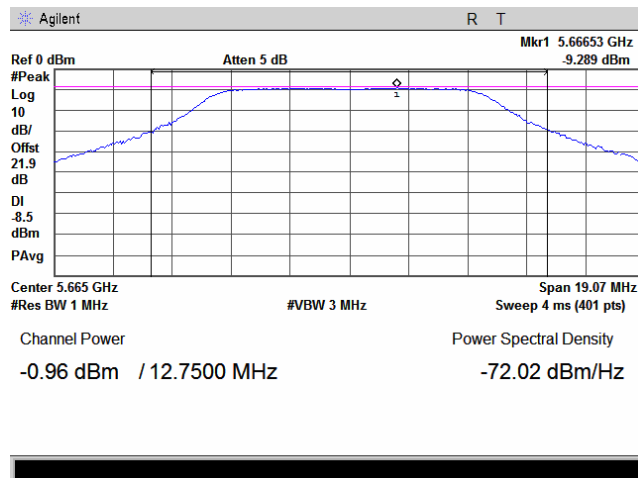
Plot 7.1.43 The 26 dB emission bandwidth

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



Plot 7.1.44 Peak output power

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



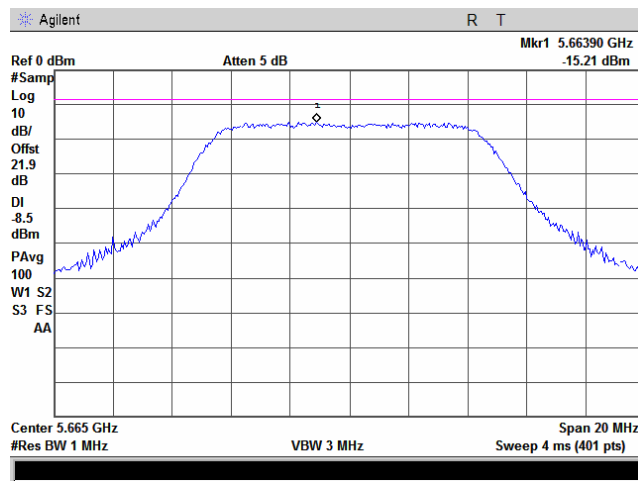


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

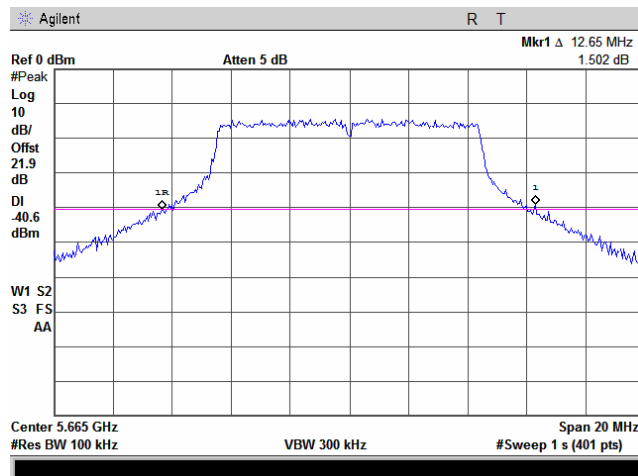
Plot 7.1.45 Peak spectral power density

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



Plot 7.1.46 The 26 dB emission bandwidth

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



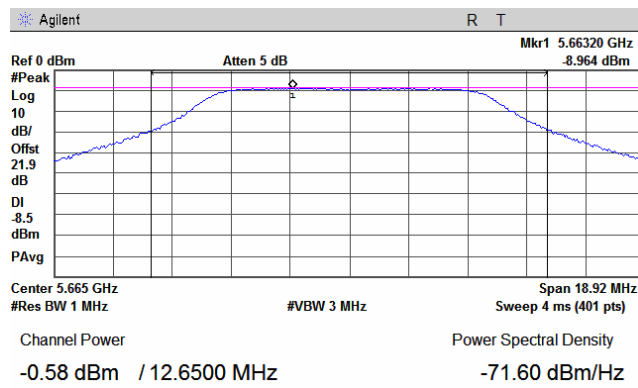


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

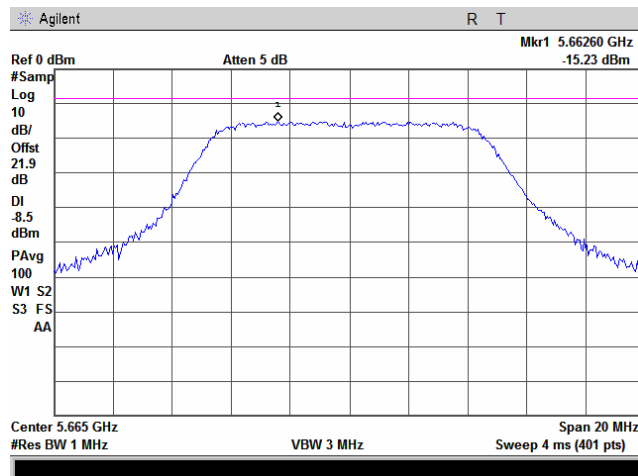
Plot 7.1.47 Peak output power

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



Plot 7.1.48 Peak spectral power density

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



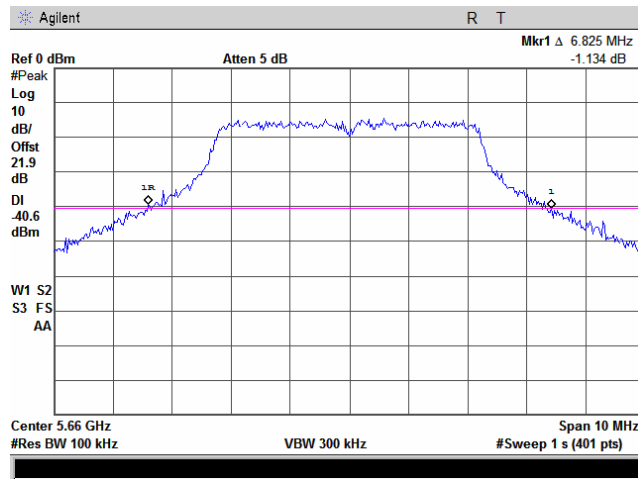


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<b>Test specification:</b> FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 <b>Peak output power and peak power spectral density</b>			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/25/2008			
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

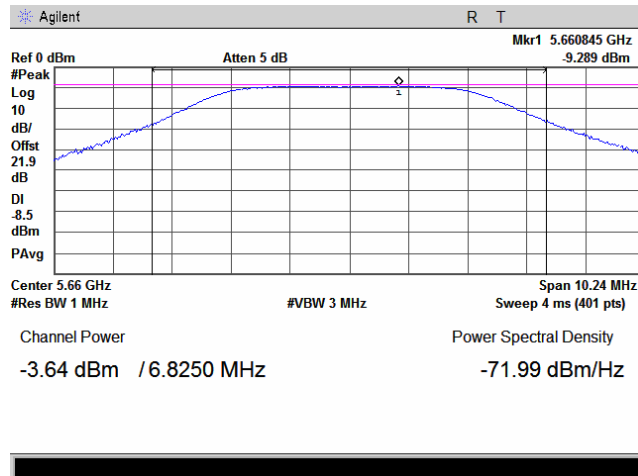
Plot 7.1.49 The 26 dB emission bandwidth

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



Plot 7.1.50 Peak output power

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

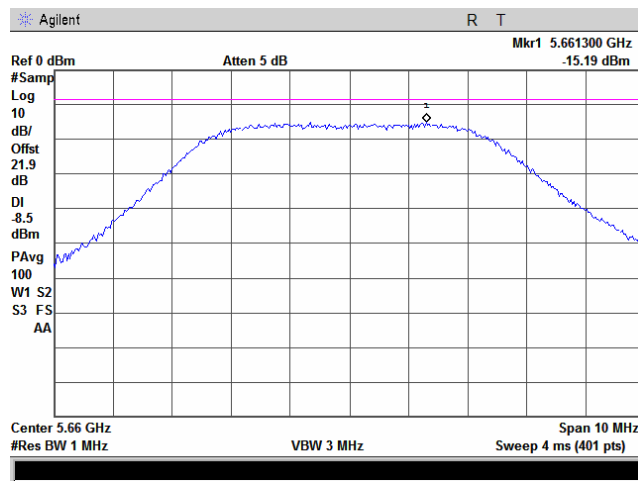




<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

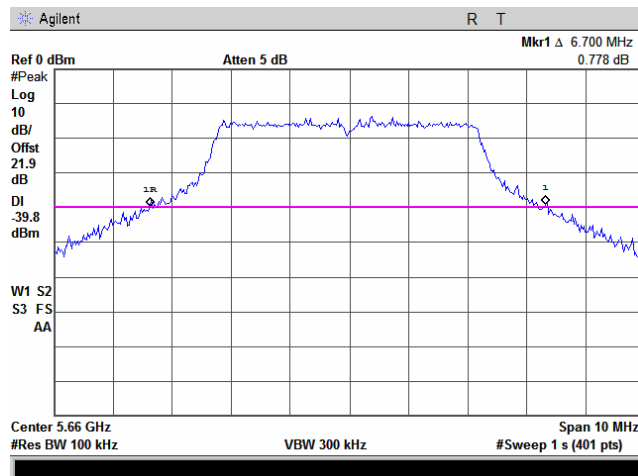
Plot 7.1.51 Peak spectral power density

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



Plot 7.1.52 The 26 dB emission bandwidth

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



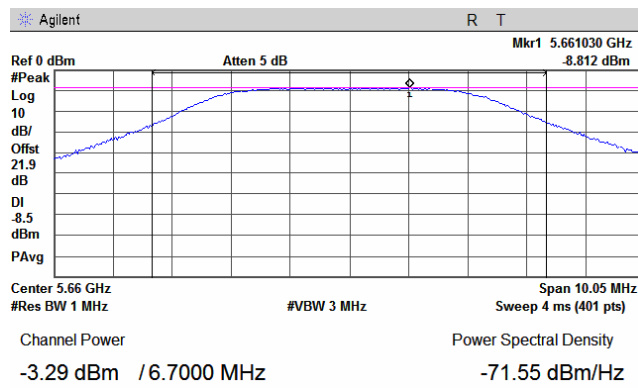


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

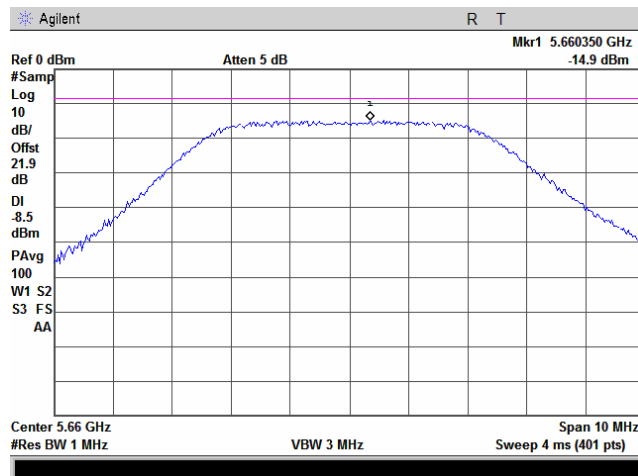
Plot 7.1.53 Peak output power

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



Plot 7.1.54 Peak spectral power density

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



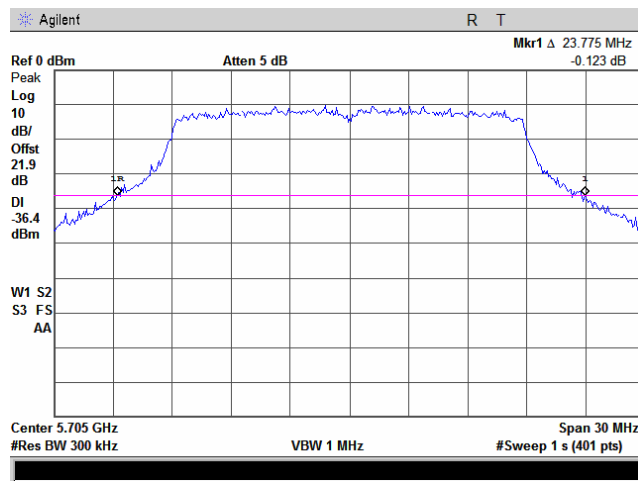


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

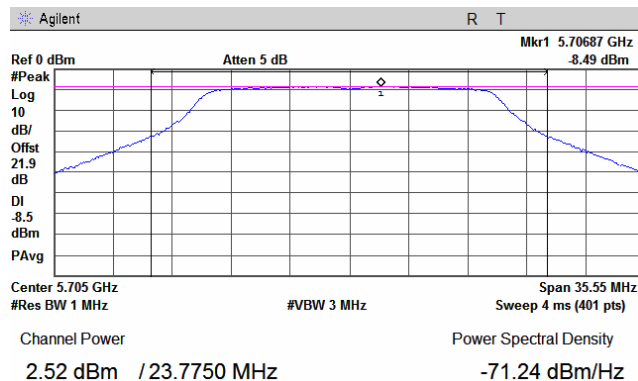
Plot 7.1.55 The 26 dB emission bandwidth

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



Plot 7.1.56 Peak output power

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





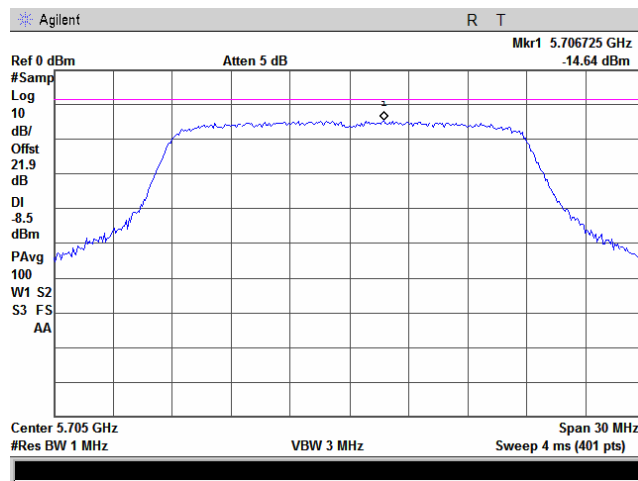


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

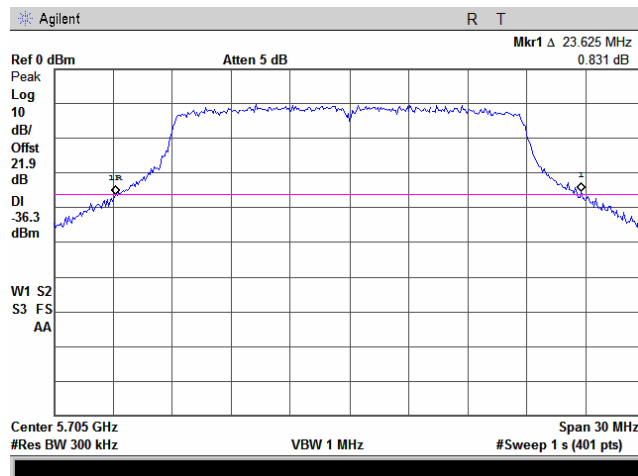
Plot 7.1.57 Peak spectral power density

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



Plot 7.1.58 The 26 dB emission bandwidth

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



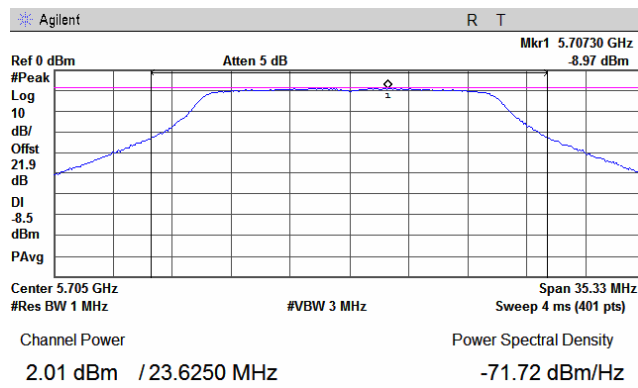


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

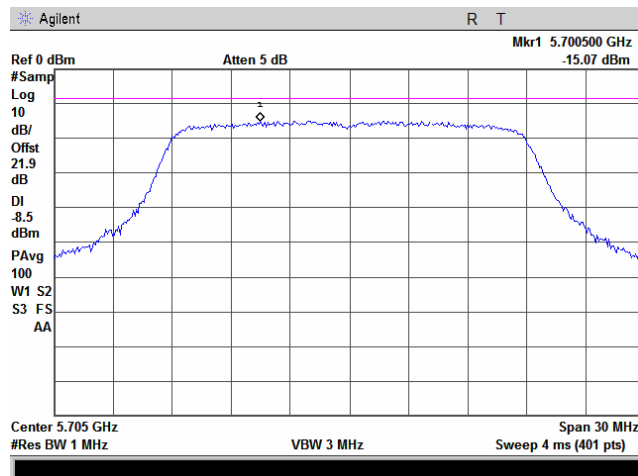
Plot 7.1.59 Peak output power

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



Plot 7.1.60 Peak spectral power density

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



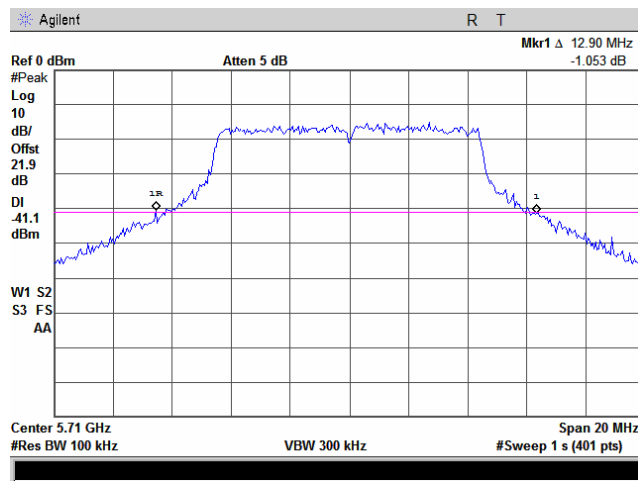


HERMON LABORATORIES

<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> 11/25/2008			
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

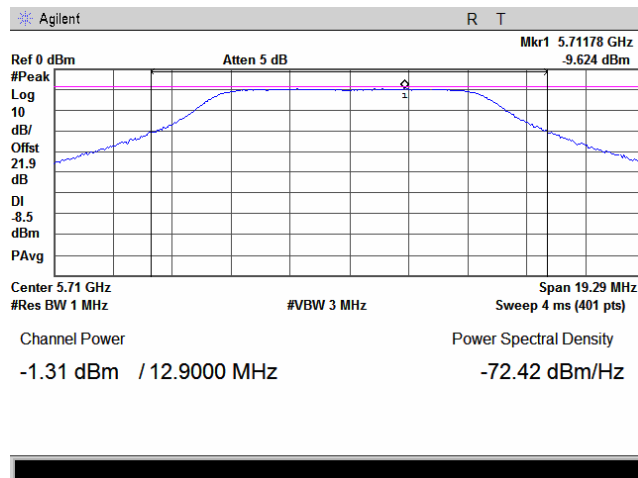
Plot 7.1.61 The 26 dB emission bandwidth

Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 7.1.62 Peak output power

Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



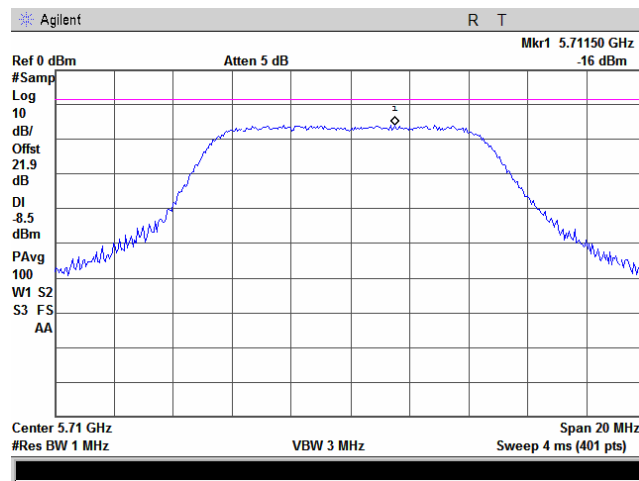


HERMON LABORATORIES

<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> 11/25/2008			
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

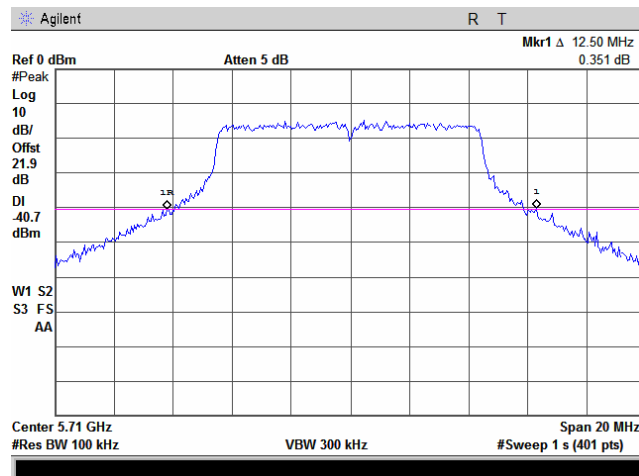
Plot 7.1.63 Peak spectral power density

Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 7.1.64 The 26 dB emission bandwidth

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



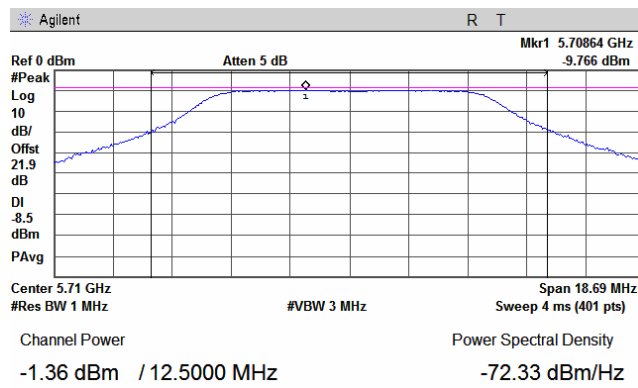


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

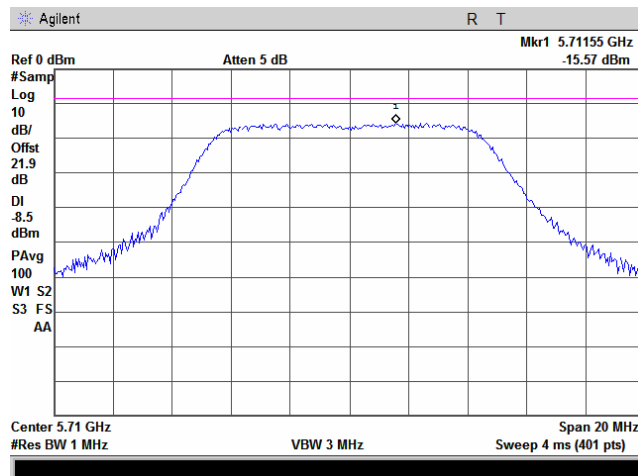
Plot 7.1.65 Peak output power

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



Plot 7.1.66 Peak spectral power density

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



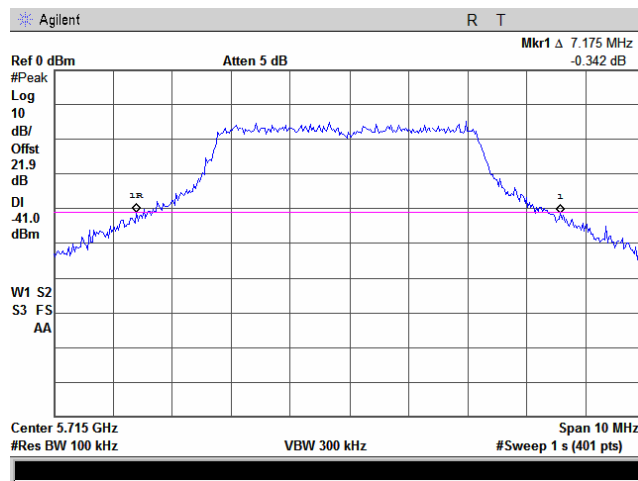


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

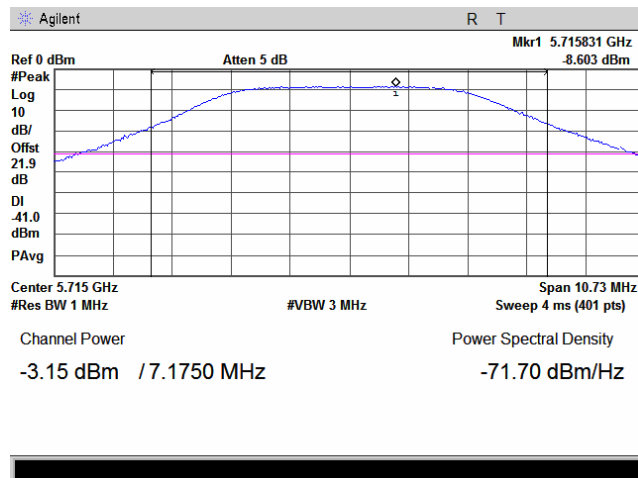
Plot 7.1.67 The 26 dB emission bandwidth

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



Plot 7.1.68 Peak output power

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



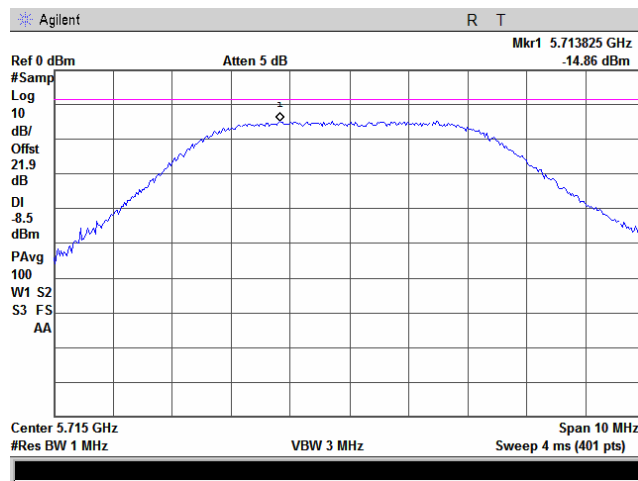


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

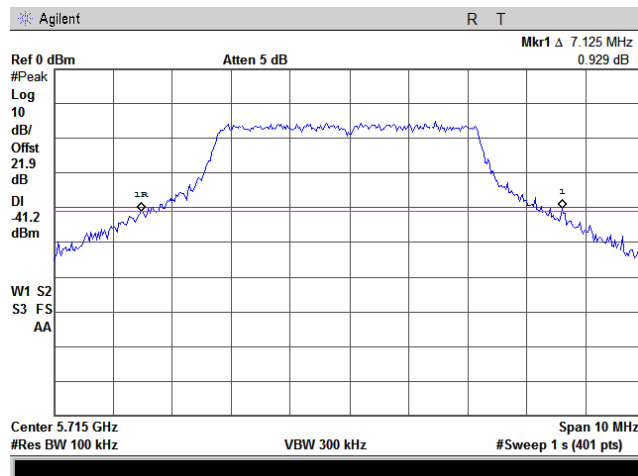
Plot 7.1.69 Peak spectral power density

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



Plot 7.1.70 The 26 dB emission bandwidth

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



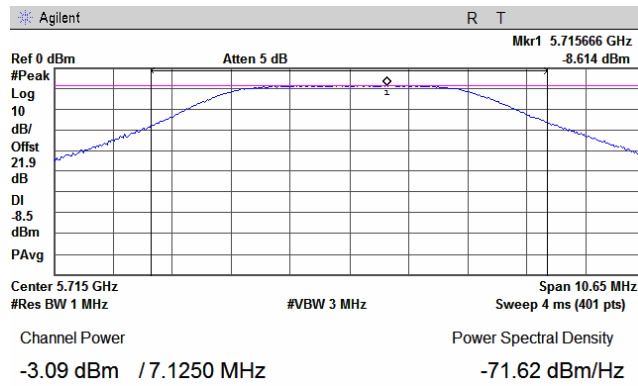


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

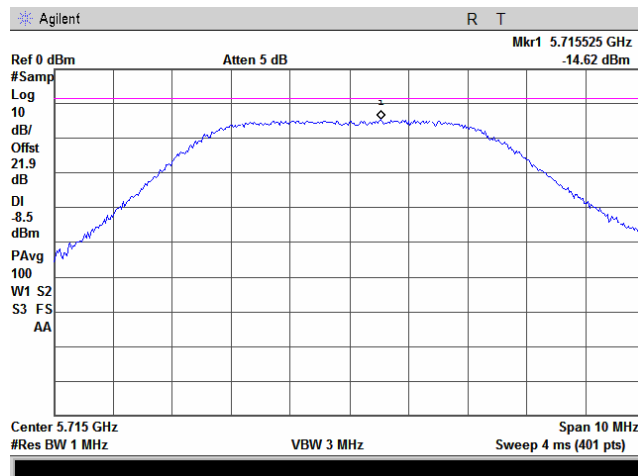
Plot 7.1.71 Peak output power

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



Plot 7.1.72 Peak spectral power density

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







<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

Table 7.1.6 Conducted output power test results

ASSIGNED FREQUENCY: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 TRANSMITTER OUTPUT POWER SETTINGS: "5 dBm" at 5 MHz channel bandwidth  
 "7.5 dBm" at 10 MHz channel bandwidth  
 "9.5 dBm" at 20 MHz channel bandwidth  
 DETECTOR USED: Peak  
 RESOLUTION BANDWIDTH: 1 MHz  
 VIDEO BANDWIDTH: 3 MHz  
 METHOD OF POWER MEASUREMENTS: 1 (channel power across the 26dB EBW)

Frequency, MHz	26 dB Bandwidth	Bit Rate, MBps	Modulation	Output power				Verdict
				Measured, dBm	Total power, dBm*	Limit, dBm	Margin, dB**	
<b>Low channel</b>								
5490	24.75	13	BPSK	-1.98	1.02	2.00	-0.98	Pass
5490	23.48	130	64QAM	-2.08	0.92	2.00	-1.08	Pass
5485	12.52	6.5	BPSK	-3.99	-0.99	-0.02	-0.97	Pass
5485	12.34	65	64QAM	-4.41	-1.41	-0.09	-1.32	Pass
5480	6.93	3.25	BPSK	-7.45	-4.45	-2.60	-1.85	Pass
5480	7.20	32.5	64QAM	-7.02	-4.02	-2.43	-1.59	Pass
<b>First mid channel</b>								
5580	24.38	13	BPSK	-1.72	1.28	2.00	-0.72	Pass
5580	23.78	130	64QAM	-1.66	1.34	2.00	-0.66	Pass
5585	12.75	6.5	BPSK	-3.18	-0.18	0.06	-0.24	Pass
5585	12.34	65	64QAM	-3.15	-0.15	-0.09	-0.06	Pass
5590	6.73	3.25	BPSK	-6.53	-3.53	-2.72	-0.81	Pass
5590	6.95	32.5	64QAM	-6.34	-3.34	-2.58	-0.76	Pass
<b>Second mid channel (for IC only)</b>								
5670	23.63	13	BPSK	-1.88	1.12	2.00	-0.88	Pass
5670	23.63	130	64QAM	-1.42	1.58	2.00	-0.42	Pass
5665	12.71	6.5	BPSK	-3.51	-0.51	0.04	-0.55	Pass
5665	12.41	65	64QAM	-3.40	-0.40	-0.06	-0.34	Pass
5660	7.18	3.25	BPSK	-5.72	-2.72	-2.44	-0.28	Pass
5660	6.98	32.5	64QAM	-6.04	-3.04	-2.56	-0.48	Pass
<b>High channel</b>								
5705	24.45	13	BPSK	-1.77	1.23	2.00	-0.77	Pass
5705	23.70	130	64QAM	-1.52	1.48	2.00	-0.52	Pass
5710	12.30	6.5	BPSK	-3.42	-0.42	-0.10	-0.32	Pass
5710	12.12	65	64QAM	-3.50	-0.50	-0.16	-0.34	Pass
5715	6.88	3.25	BPSK	-5.74	-2.74	-2.63	-0.11	Pass
5715	7.13	32.5	64QAM	-5.82	-2.82	-2.47	-0.35	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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

Table 7.1.7 Peak power spectral density test results

ASSIGNED FREQUENCY: 5470-5725 MHz  
 MODULATING SIGNAL: OFDM  
 TRANSMITTER OUTPUT POWER SETTINGS: "5 dBm" at 5 MHz channel bandwidth  
 "7.5 dBm" at 10 MHz channel bandwidth  
 "9.5 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)

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	-19.71	-16.71	-11.00	-5.71	Pass
5490	130	64QAM	-20.84	-17.84	-11.00	-6.84	Pass
5485	6.5	BPSK	-18.66	-15.66	-11.00	-4.66	Pass
5485	65	64QAM	-19.97	-16.97	-11.00	-5.97	Pass
5480	3.25	BPSK	-18.81	-15.81	-11.00	-4.81	Pass
5480	32.5	64QAM	-18.11	-15.11	-11.00	-4.11	Pass
<b>First mid channel</b>							
5580	13	BPSK	-18.72	-15.72	-11.00	-4.72	Pass
5580	130	64QAM	-18.67	-15.67	-11.00	-4.67	Pass
5585	6.5	BPSK	-17.55	-14.55	-11.00	-3.55	Pass
5585	65	64QAM	-16.90	-13.90	-11.00	-2.90	Pass
5590	3.25	BPSK	-17.91	-14.91	-11.00	-3.91	Pass
5590	32.5	64QAM	-17.62	-14.62	-11.00	-3.62	Pass
<b>Second mid channel (for IC only)</b>							
5670	13	BPSK	-18.89	-15.89	-11.00	-4.89	Pass
5670	130	64QAM	-18.10	-15.10	-11.00	-4.10	Pass
5665	6.5	BPSK	-18.13	-15.13	-11.00	-4.13	Pass
5665	65	64QAM	-17.68	-14.68	-11.00	-3.68	Pass
5660	3.25	BPSK	-17.35	-14.35	-11.00	-3.35	Pass
5660	32.5	64QAM	-17.40	-14.40	-11.00	-3.40	Pass
<b>High channel</b>							
5705	13	BPSK	-18.27	-15.27	-11.00	-4.27	Pass
5705	130	64QAM	-18.71	-15.71	-11.00	-4.71	Pass
5710	6.5	BPSK	-18.03	-15.03	-11.00	-4.03	Pass
5710	65	64QAM	-18.00	-15.00	-11.00	-4.00	Pass
5715	3.25	BPSK	-17.25	-14.25	-11.00	-3.25	Pass
5715	32.5	64QAM	-17.17	-14.17	-11.00	-3.17	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 2883	HL 2909	HL 3179				
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Full description is given in Appendix A.

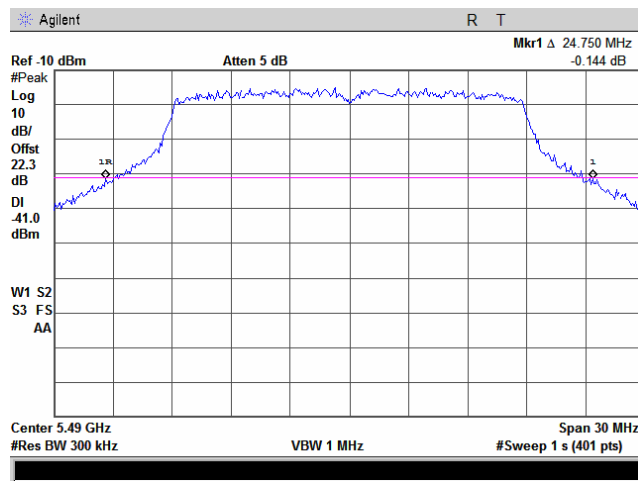


HERMON LABORATORIES

<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> 11/25/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

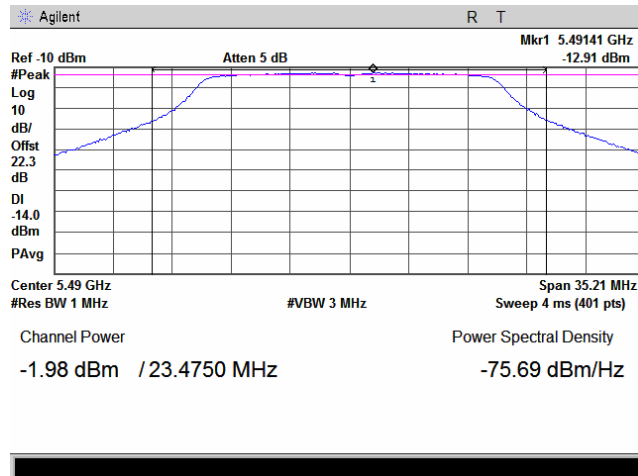
Plot 7.1.73 The 26 dB emission bandwidth

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



Plot 7.1.74 Peak output power

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



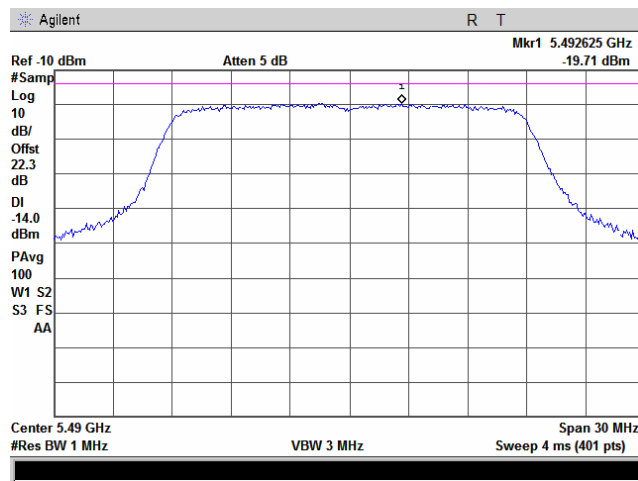


HERMON LABORATORIES

<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>	PASS
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

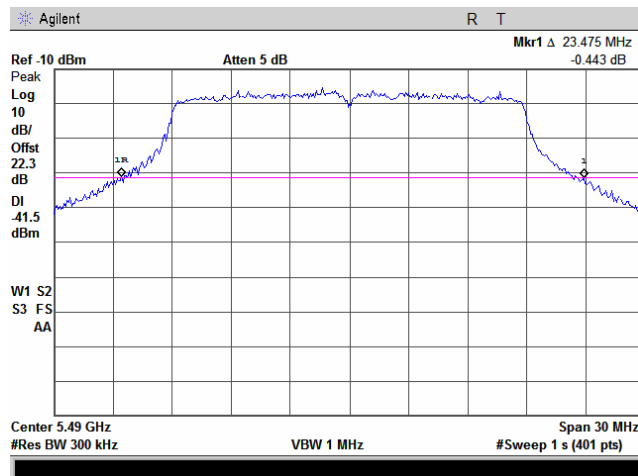
Plot 7.1.75 Peak spectral power density

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



Plot 7.1.76 The 26 dB emission bandwidth

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



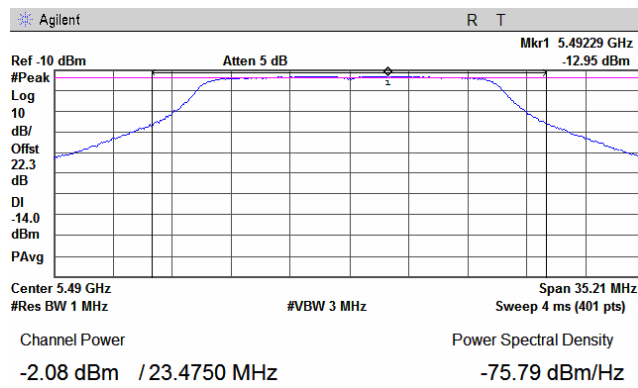


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

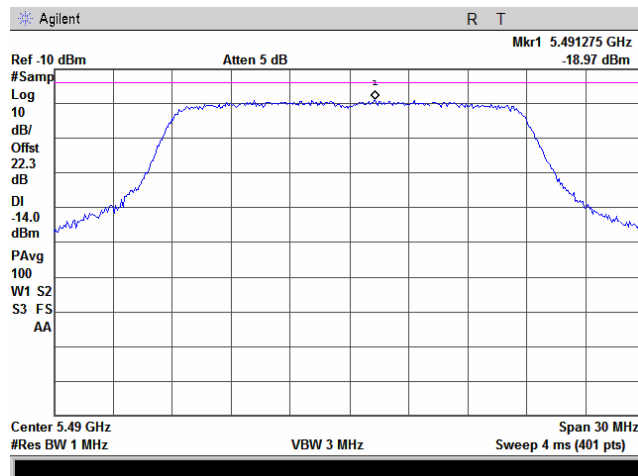
Plot 7.1.77 Peak output power

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



Plot 7.1.78 Peak spectral power density

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



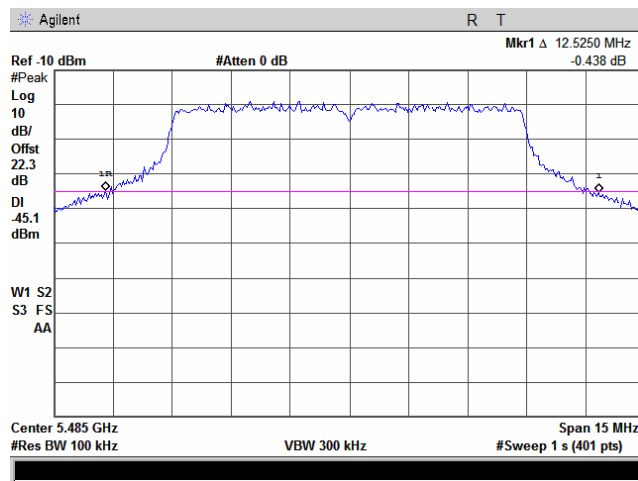


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<b>Test specification:</b>		<b>FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density</b>	
<b>Test procedure:</b>		FCC Public Notice DA 02-2138, Appendix A	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

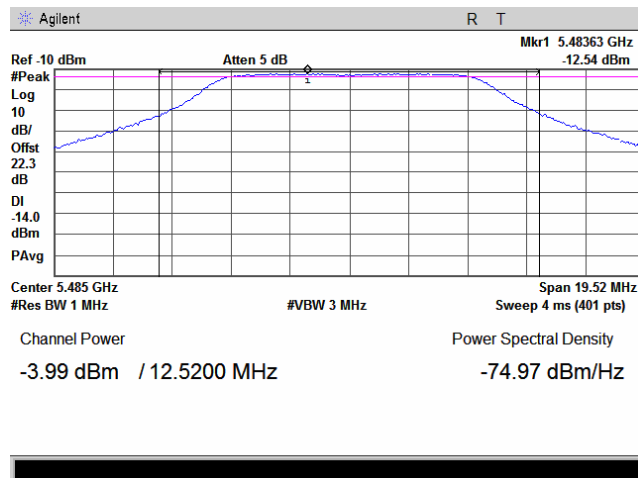
Plot 7.1.79 The 26 dB emission bandwidth

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



Plot 7.1.80 Peak output power

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



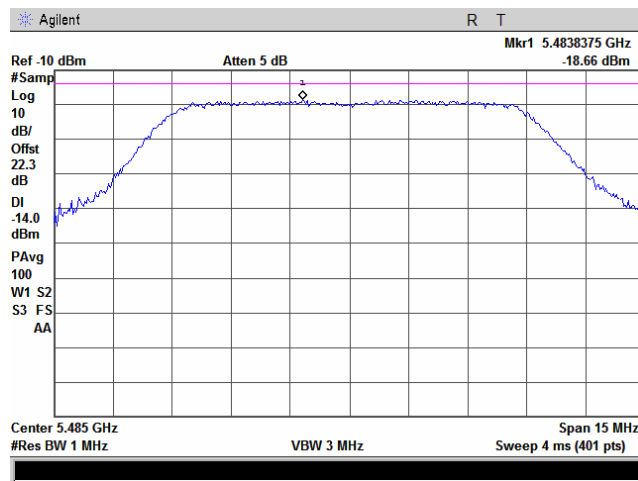


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

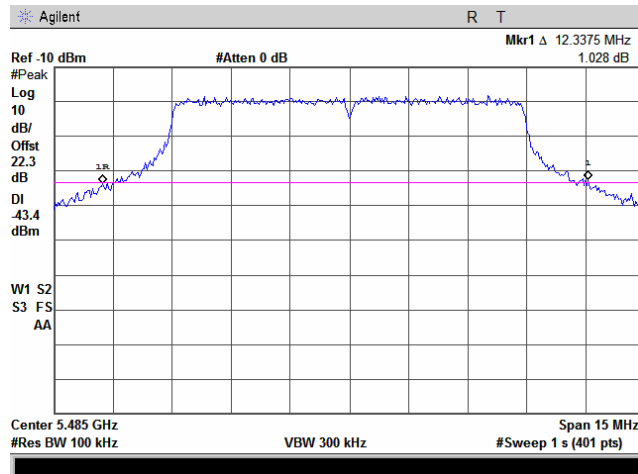
Plot 7.1.81 Peak spectral power density

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



Plot 7.1.82 The 26 dB emission bandwidth

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



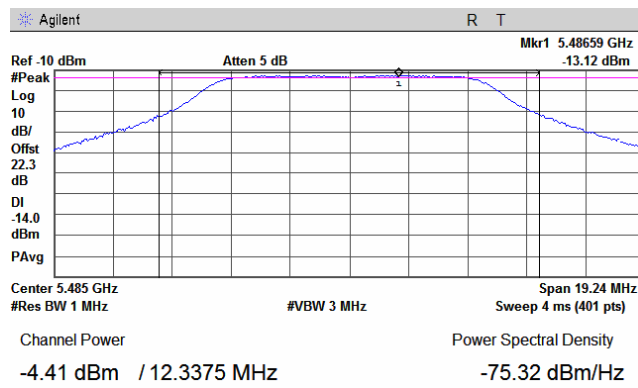


HERMON LABORATORIES

<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>	11/25/2008	<b>Relative Humidity:</b>	54 %
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Power Supply:</b>	120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

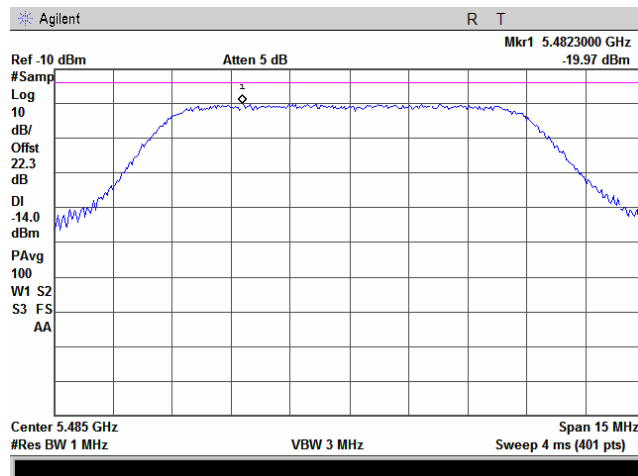
Plot 7.1.83 Peak output power

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



Plot 7.1.84 Peak spectral power density

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





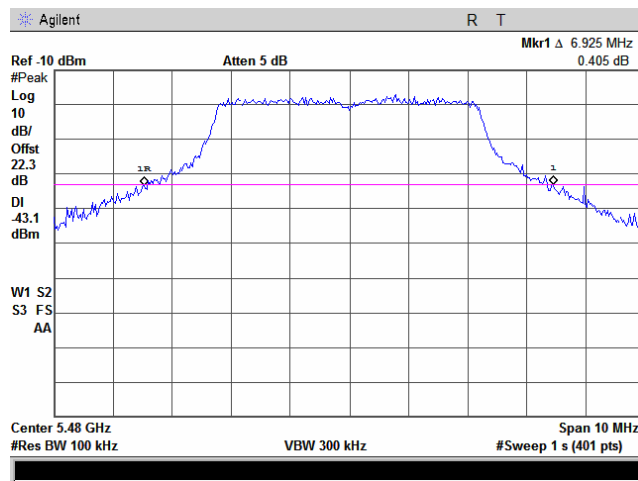


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

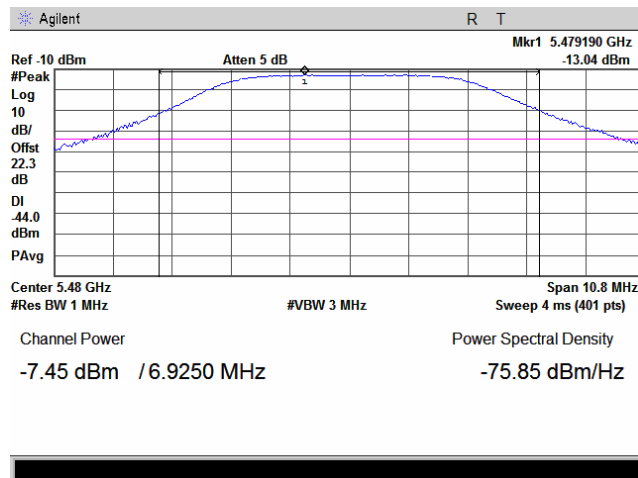
Plot 7.1.85 The 26 dB emission bandwidth

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



Plot 7.1.86 Peak output power

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



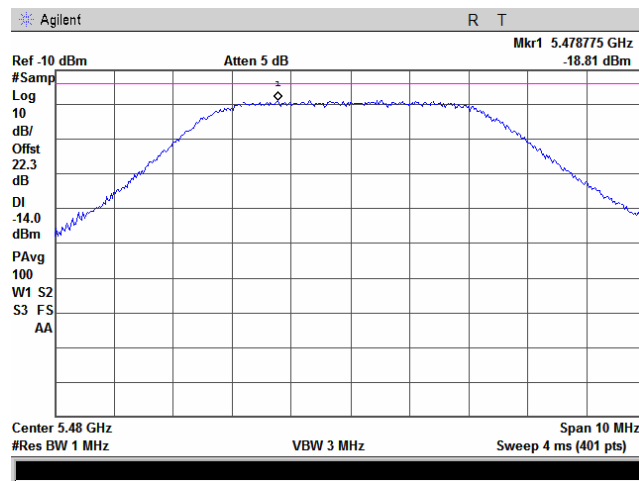


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

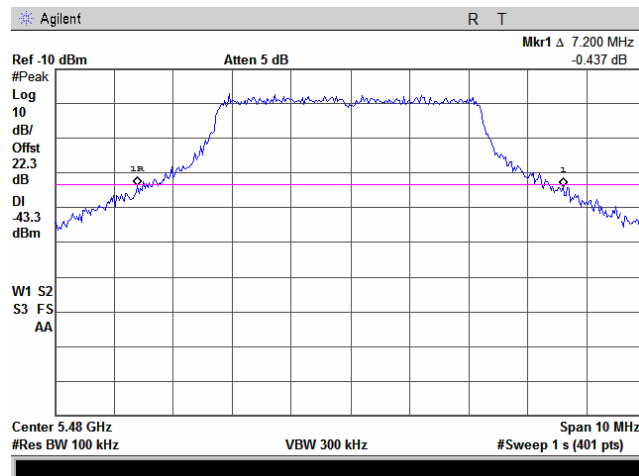
Plot 7.1.87 Peak spectral power density

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



Plot 7.1.88 The 26 dB emission bandwidth

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



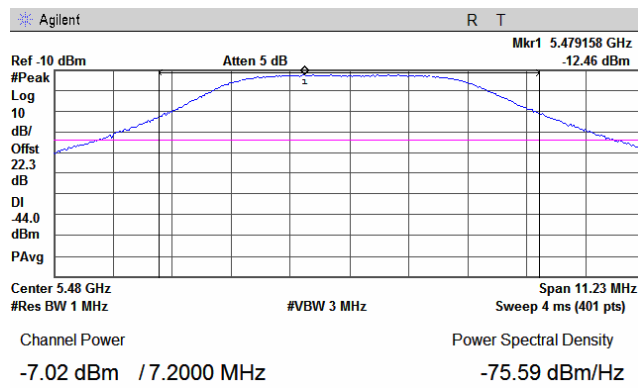


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

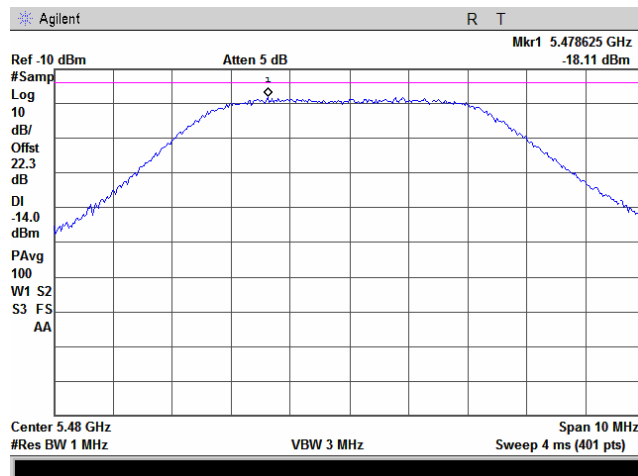
Plot 7.1.89 Peak output power

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



Plot 7.1.90 Peak spectral power density

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



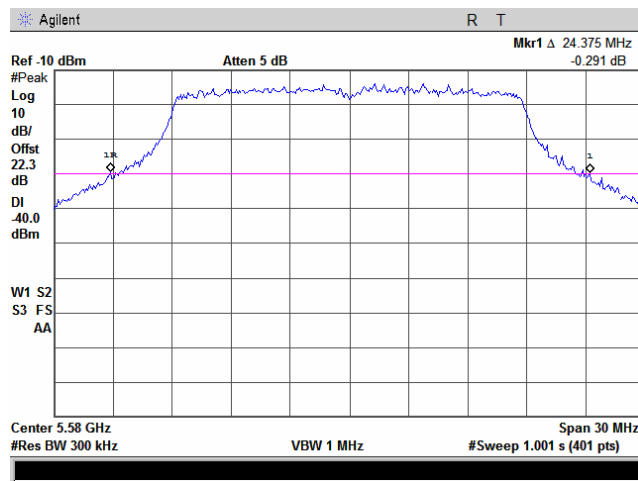


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

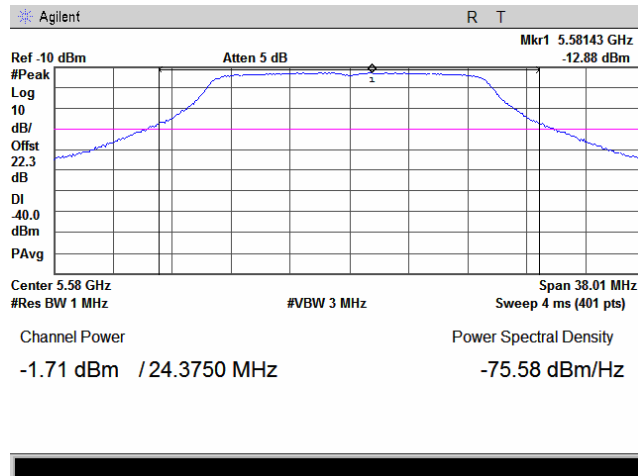
Plot 7.1.91 The 26 dB emission bandwidth

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



Plot 7.1.92 Peak output power

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



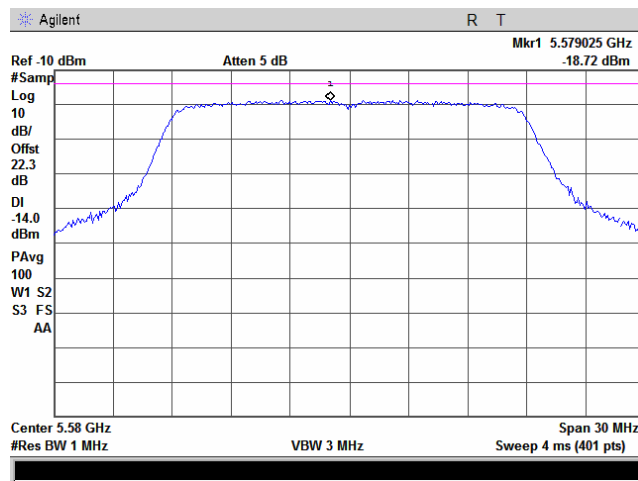


HERMON LABORATORIES

<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>	PASS
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

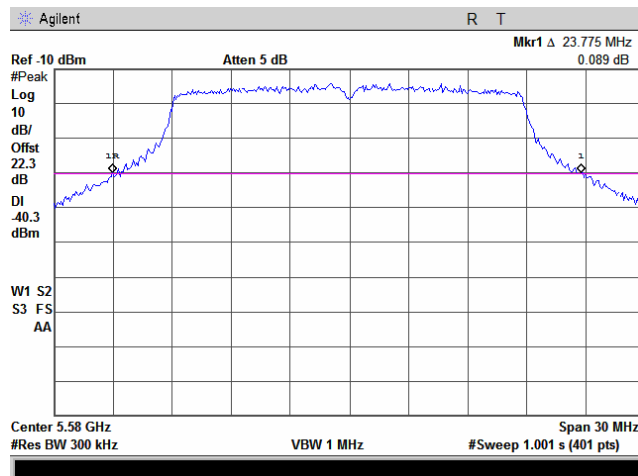
Plot 7.1.93 Peak spectral power density

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



Plot 7.1.94 The 26 dB emission bandwidth

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



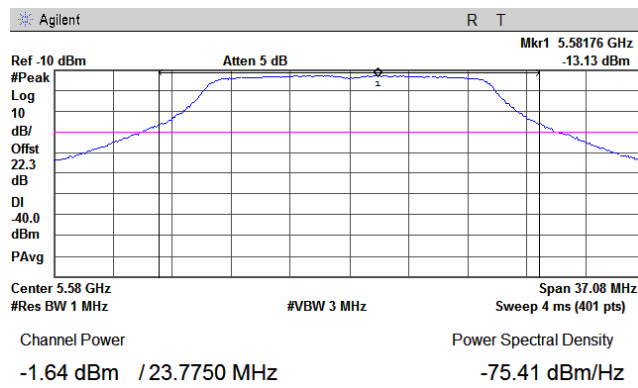


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

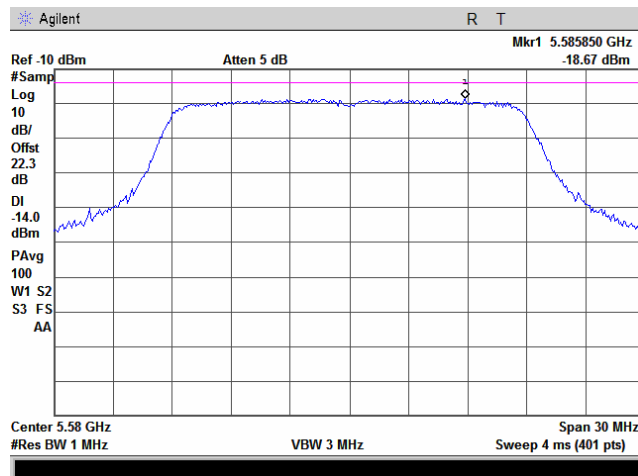
Plot 7.1.95 Peak output power

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



Plot 7.1.96 Peak spectral power density

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



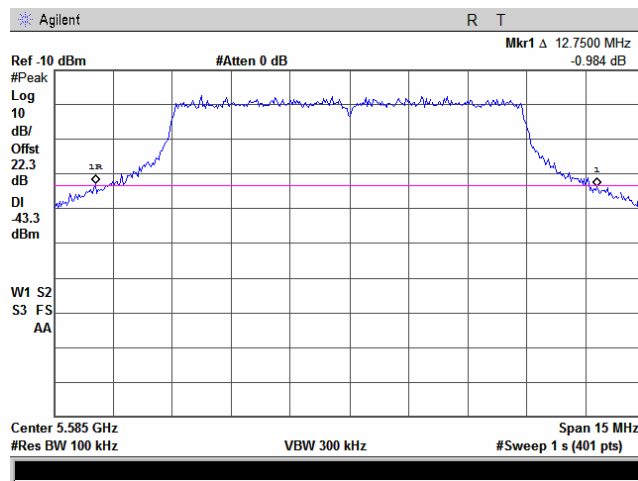


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

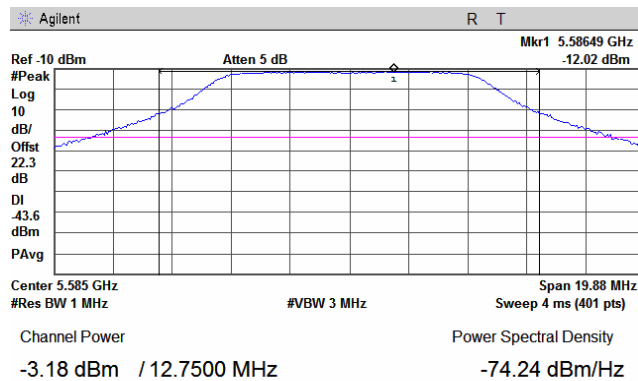
Plot 7.1.97 The 26 dB emission bandwidth

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



Plot 7.1.98 Peak output power

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



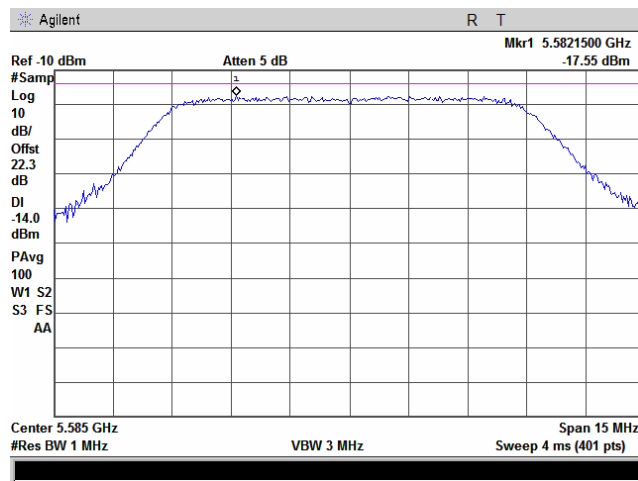


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

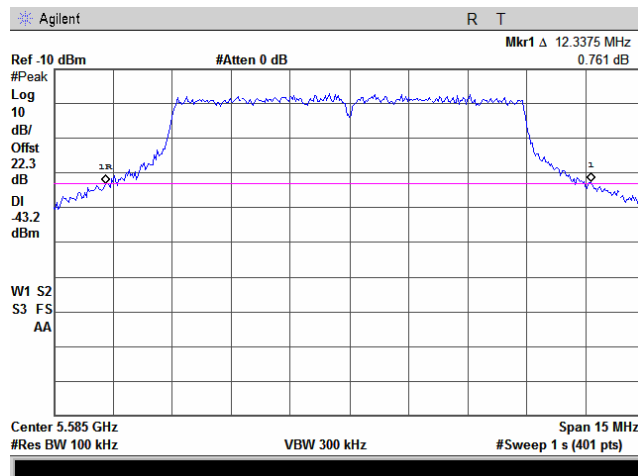
Plot 7.1.99 Peak spectral power density

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



Plot 7.1.100 The 26 dB emission bandwidth

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





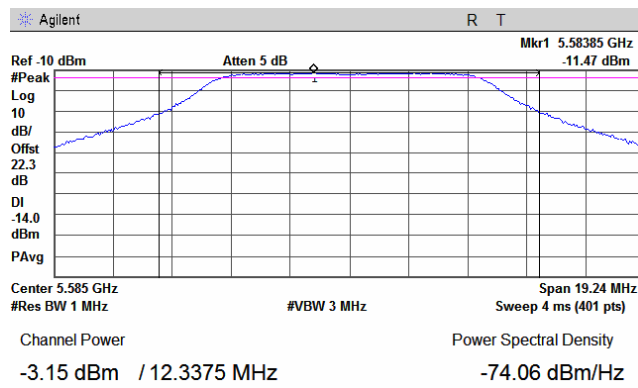


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

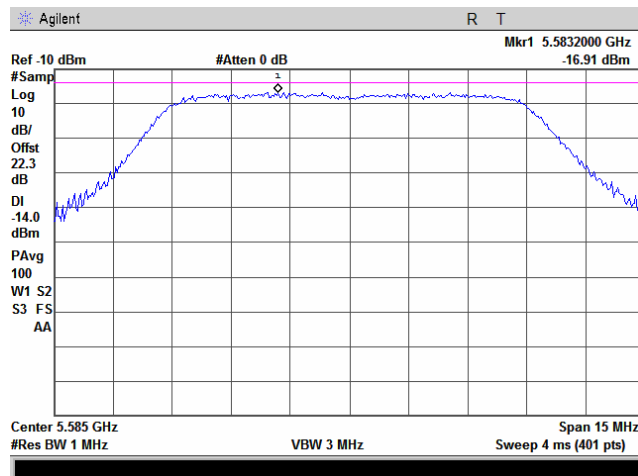
Plot 7.1.101 Peak output power

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



Plot 7.1.102 Peak spectral power density

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



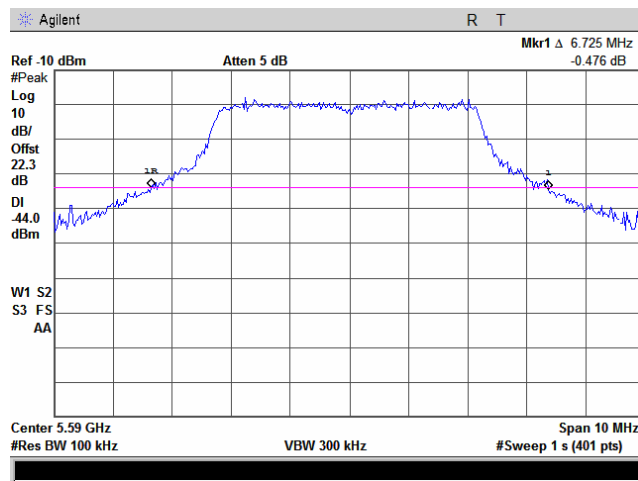


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

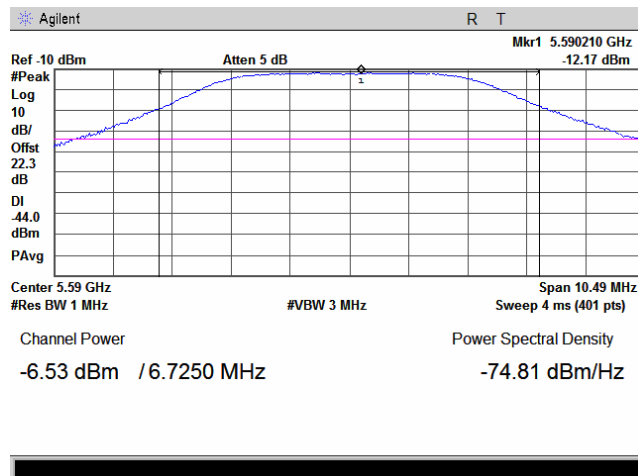
Plot 7.1.103 The 26 dB emission bandwidth

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



Plot 7.1.104 Peak output power

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



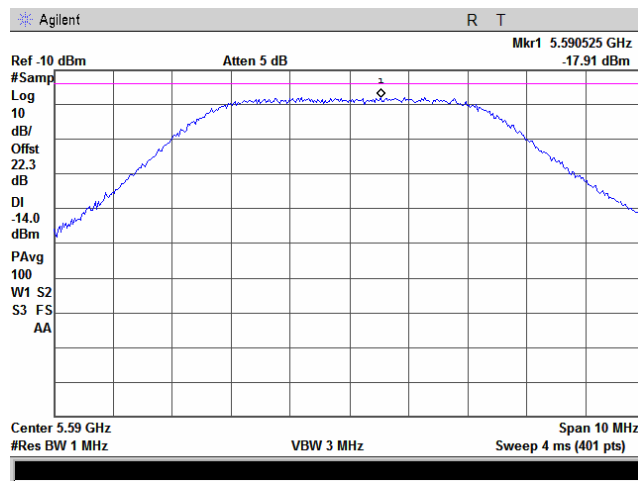


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

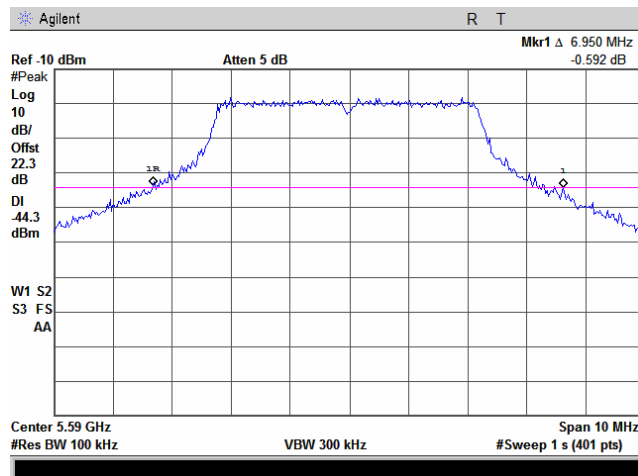
Plot 7.1.105 Peak spectral power density

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



Plot 7.1.106 The 26 dB emission bandwidth

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



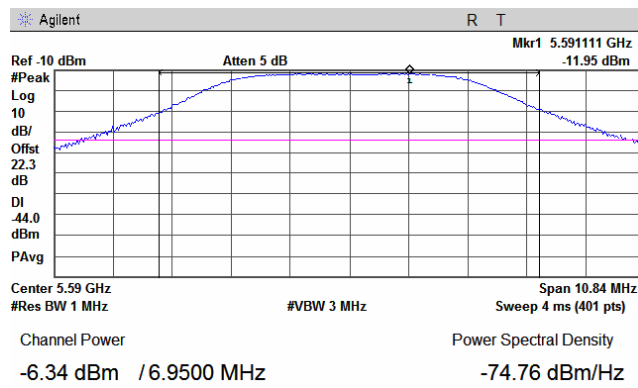


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

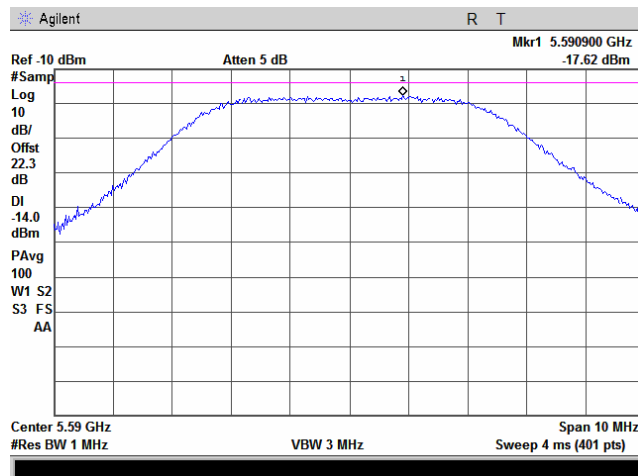
Plot 7.1.107 Peak output power

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



Plot 7.1.108 Peak spectral power density

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



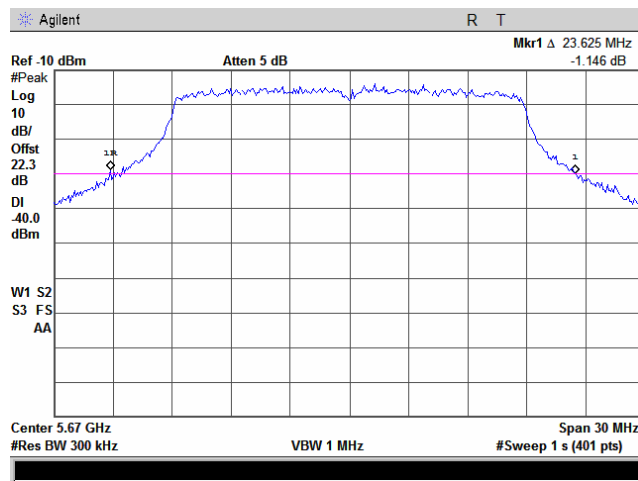


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

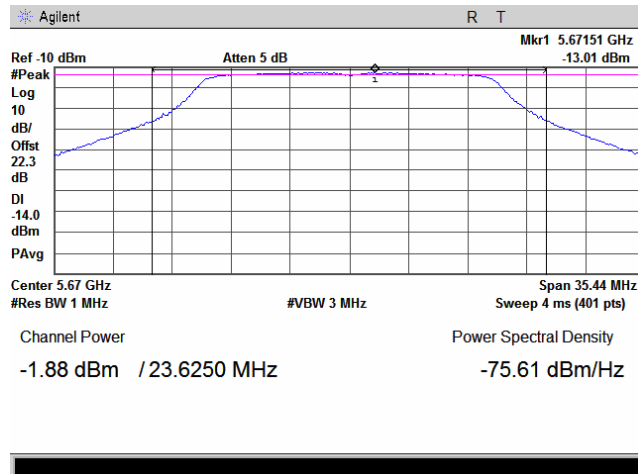
Plot 7.1.109 The 26 dB emission bandwidth

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



Plot 7.1.110 Peak output power

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



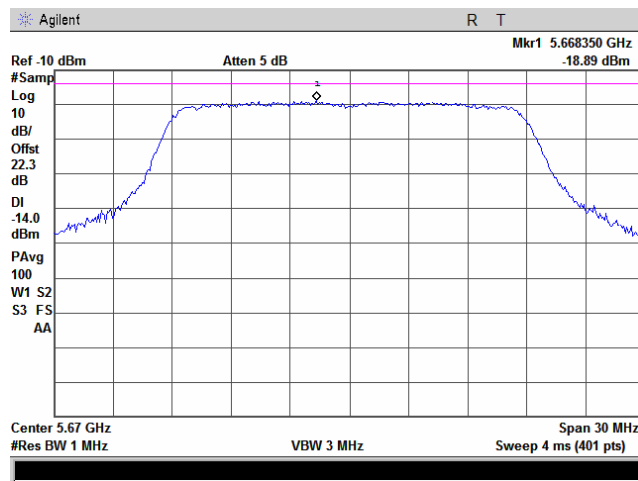


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

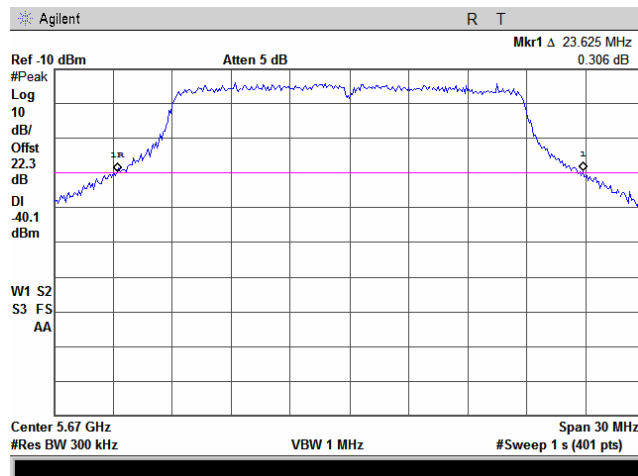
Plot 7.1.111 Peak spectral power density

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



Plot 7.1.112 The 26 dB emission bandwidth

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



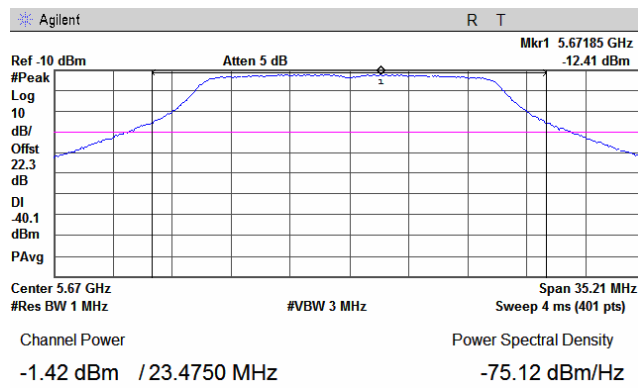


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

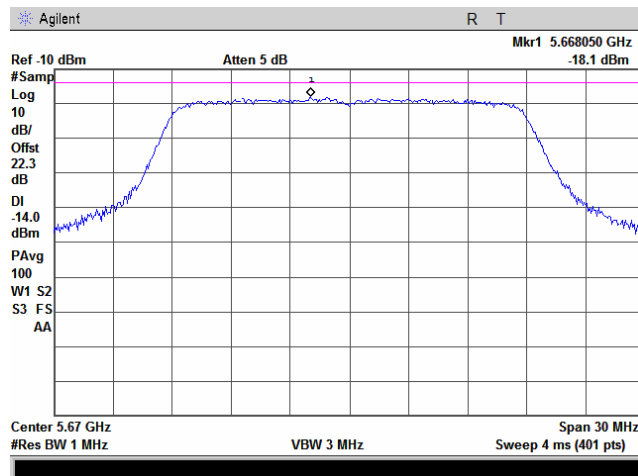
Plot 7.1.113 Peak output power

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



Plot 7.1.114 Peak spectral power density

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



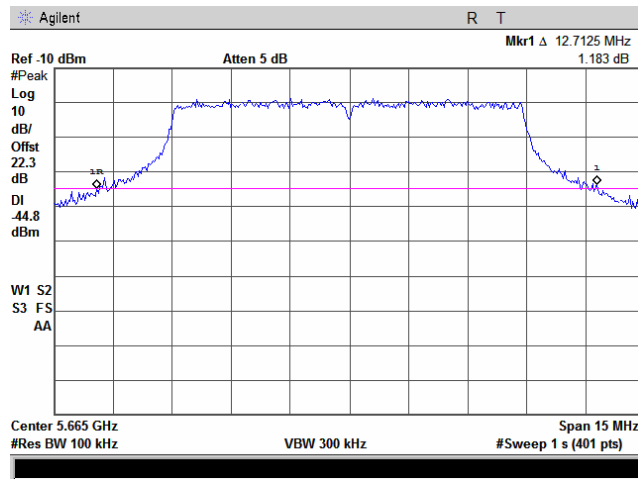


HERMON LABORATORIES

<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>	11/25/2008	<b>Relative Humidity:</b>	54 %
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Power Supply:</b>	120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

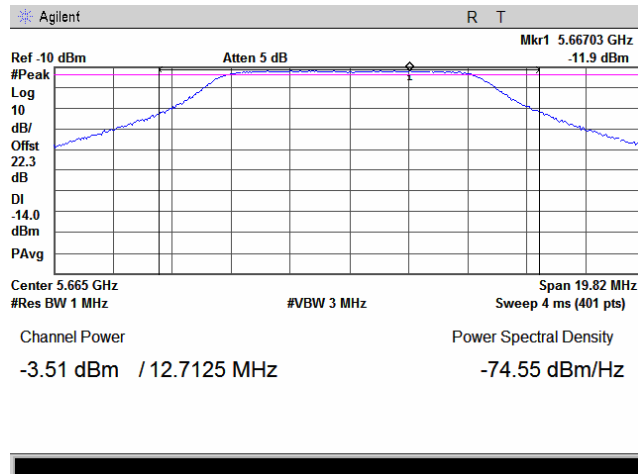
Plot 7.1.115 The 26 dB emission bandwidth

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



Plot 7.1.116 Peak output power

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





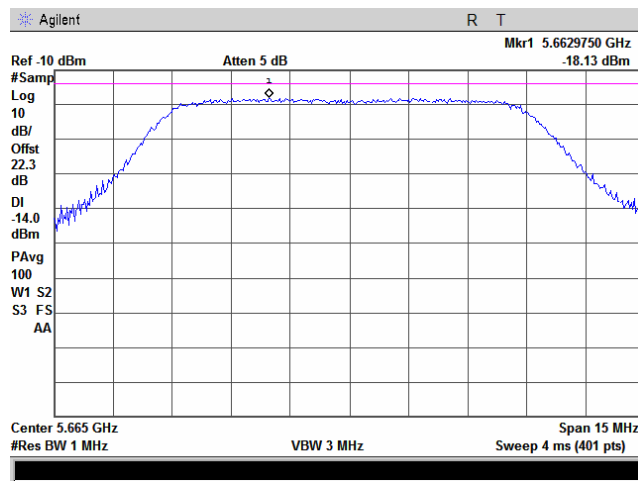


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

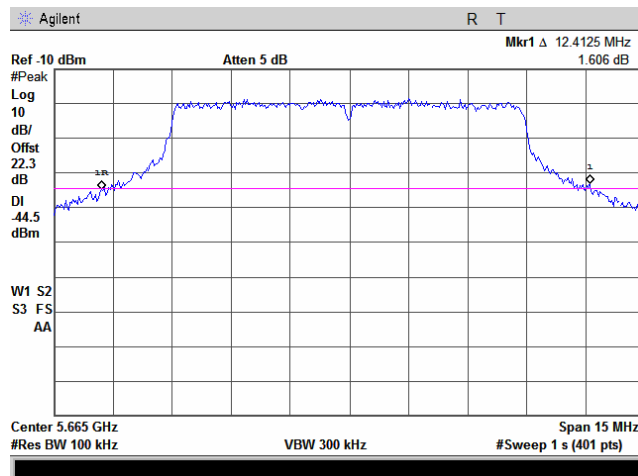
Plot 7.1.117 Peak spectral power density

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



Plot 7.1.118 The 26 dB emission bandwidth

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



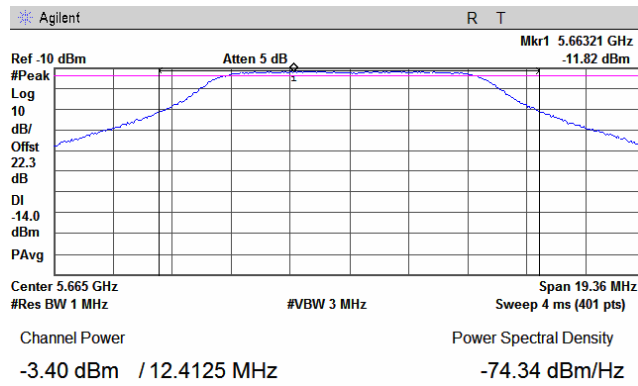


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

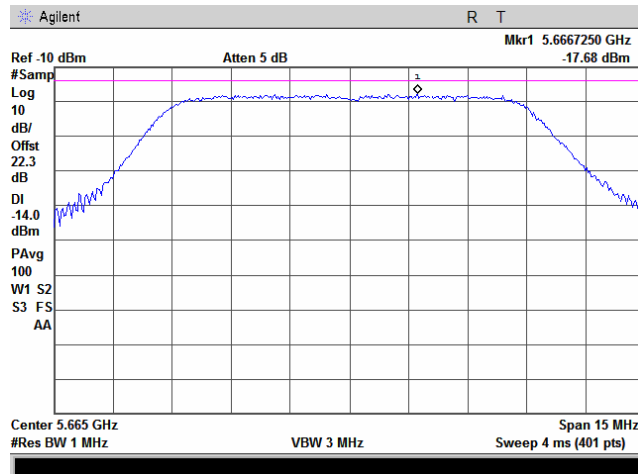
Plot 7.1.119 Peak output power

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



Plot 7.1.120 Peak spectral power density

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



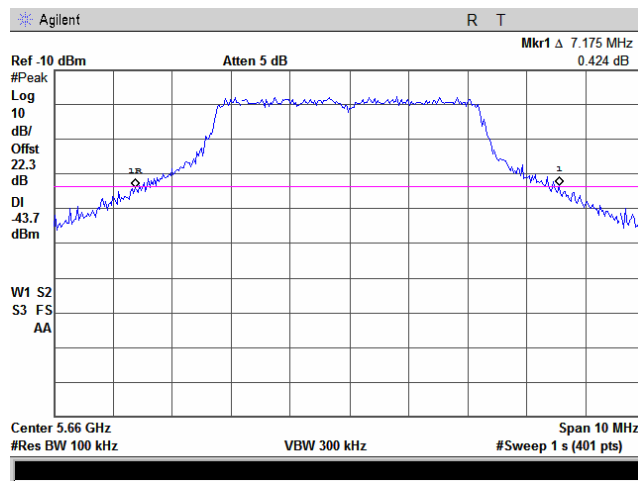


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

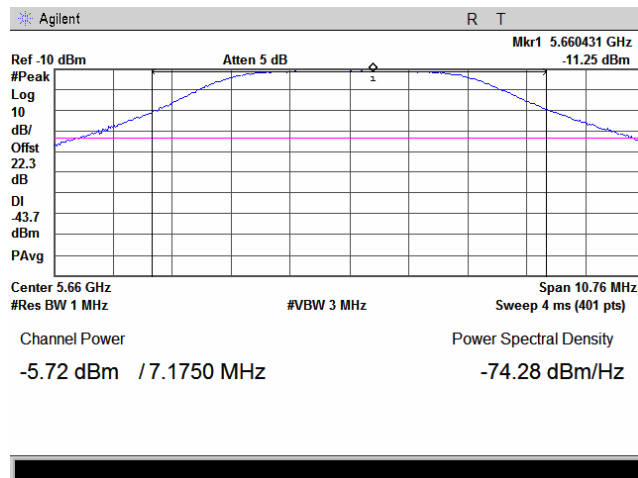
Plot 7.1.121 The 26 dB emission bandwidth

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



Plot 7.1.122 Peak output power

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



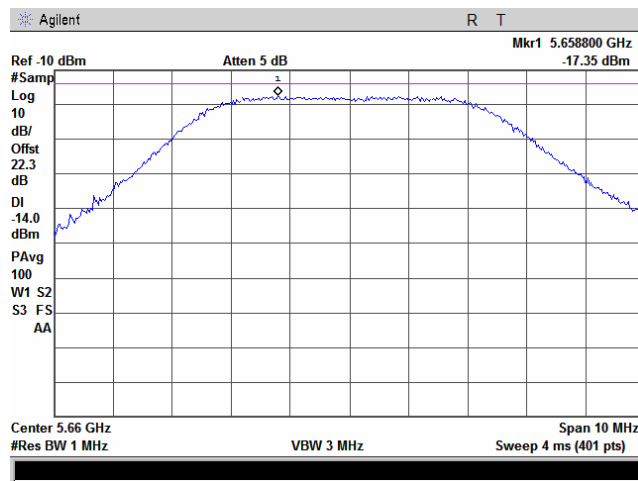


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

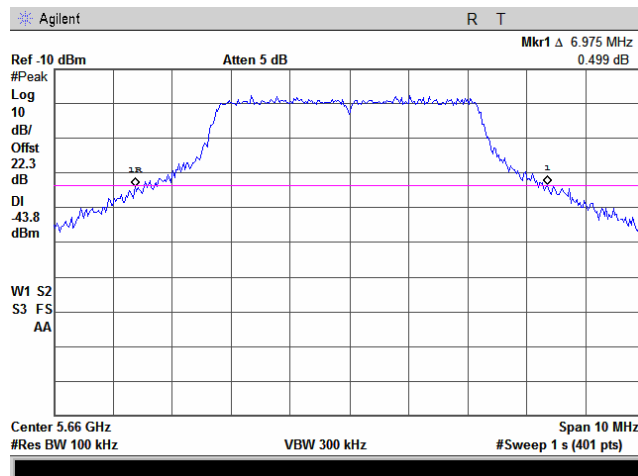
Plot 7.1.123 Peak spectral power density

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



Plot 7.1.124 The 26 dB emission bandwidth

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



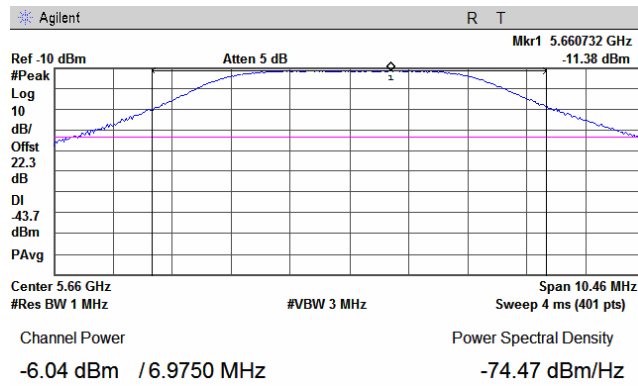


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

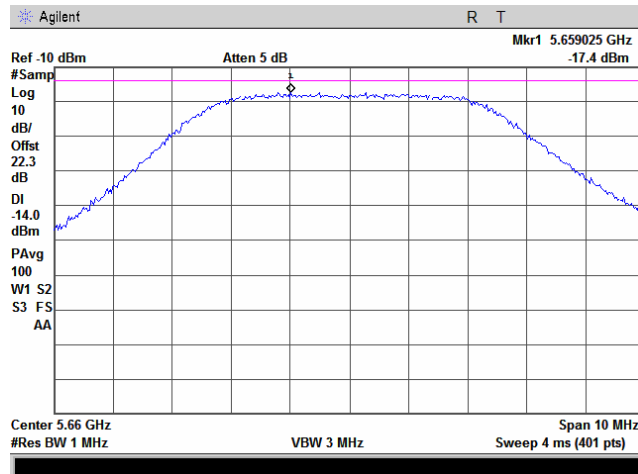
Plot 7.1.125 Peak output power

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



Plot 7.1.126 Peak spectral power density

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



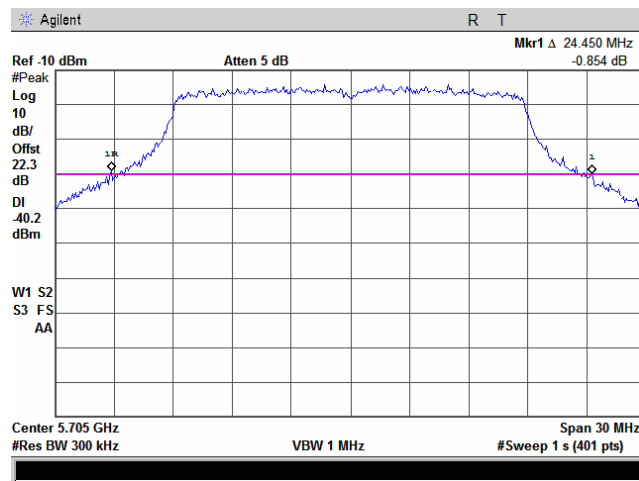


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

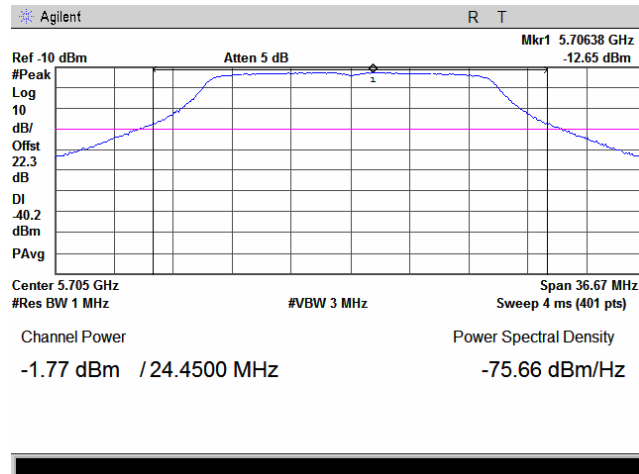
Plot 7.1.127 The 26 dB emission bandwidth

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



Plot 7.1.128 Peak output power

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



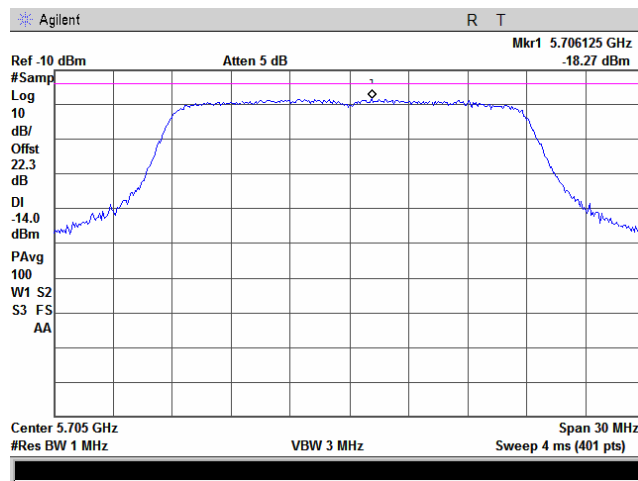


HERMON LABORATORIES

<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>	PASS
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

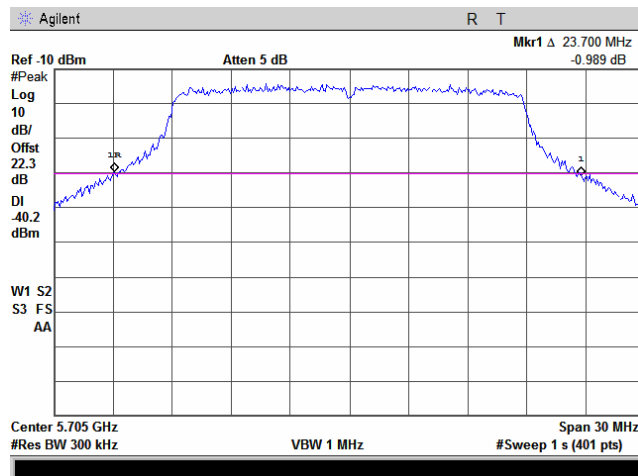
Plot 7.1.129 Peak spectral power density

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



Plot 7.1.130 The 26 dB emission bandwidth

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



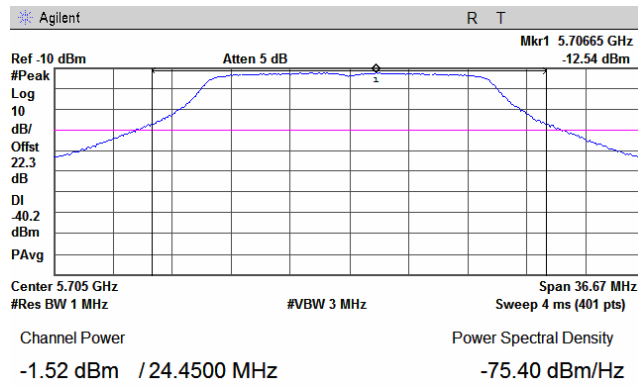


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

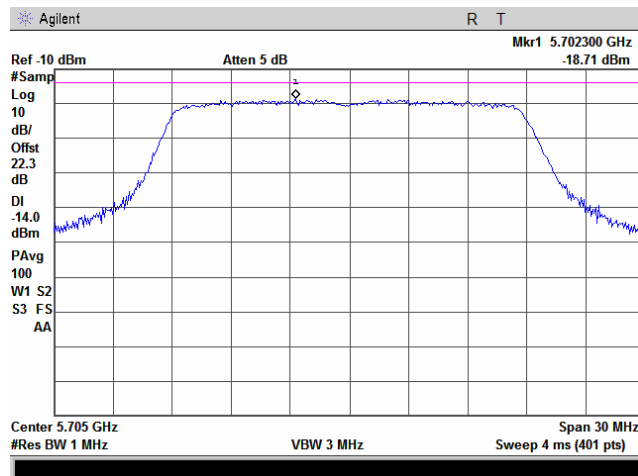
Plot 7.1.131 Peak output power

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



Plot 7.1.132 Peak spectral power density

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





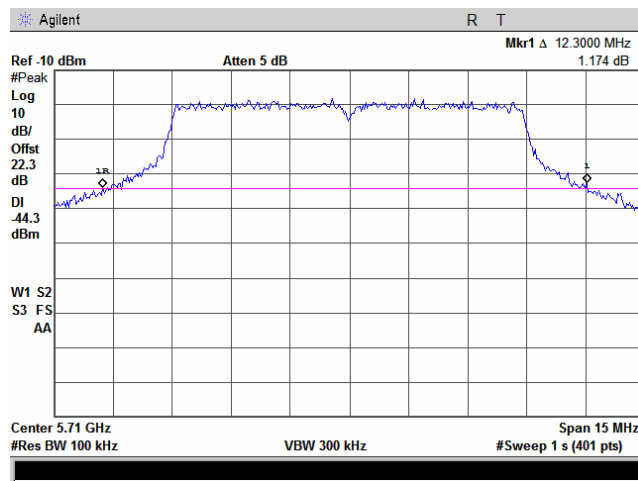


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

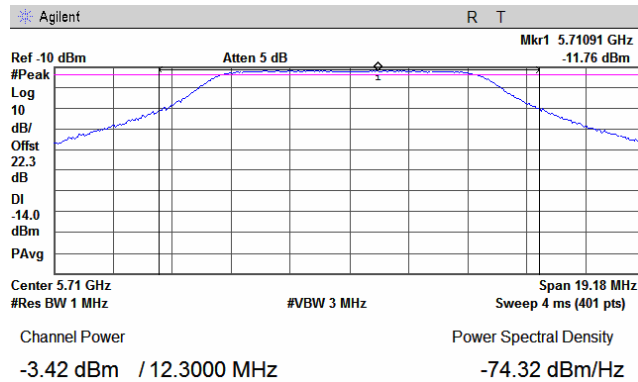
Plot 7.1.133 The 26 dB emission bandwidth

Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 7.1.134 Peak output power

Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



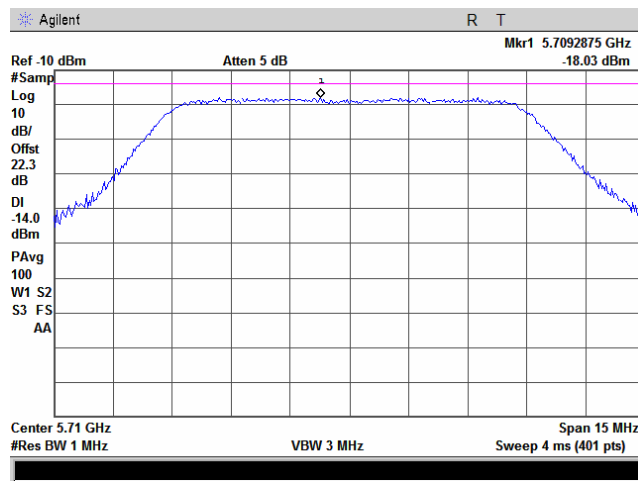


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

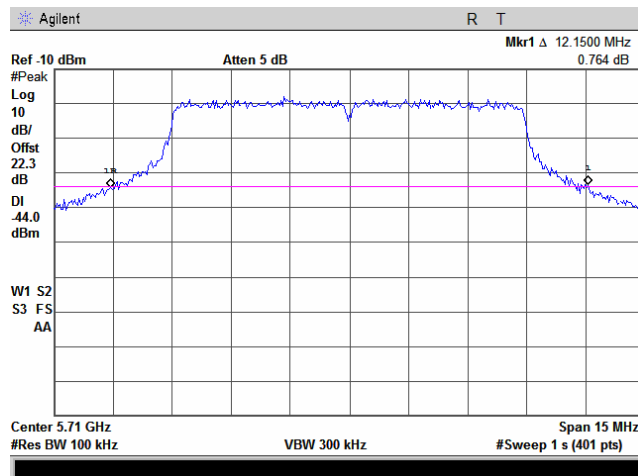
Plot 7.1.135 Peak spectral power density

Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



Plot 7.1.136 The 26 dB emission bandwidth

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



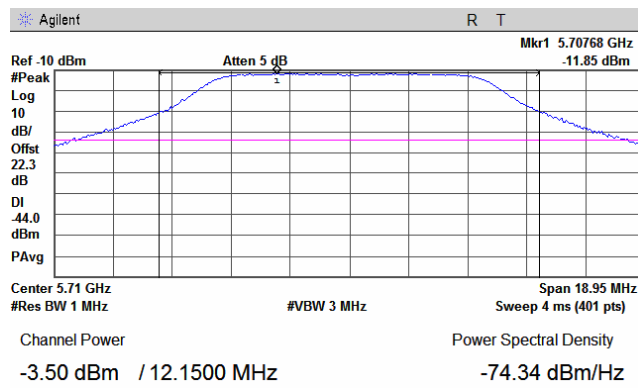


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

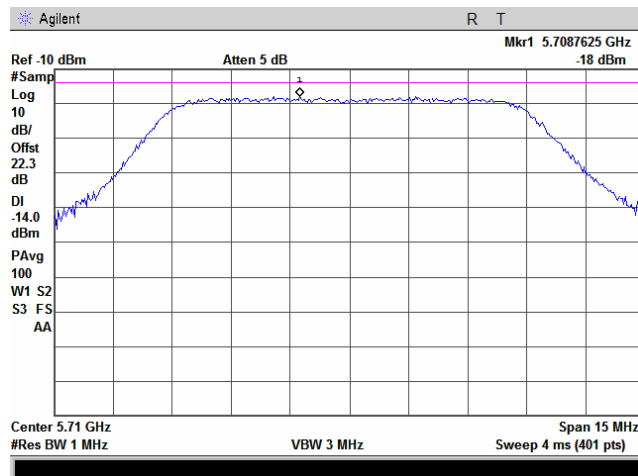
Plot 7.1.137 Peak output power

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



Plot 7.1.138 Peak spectral power density

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



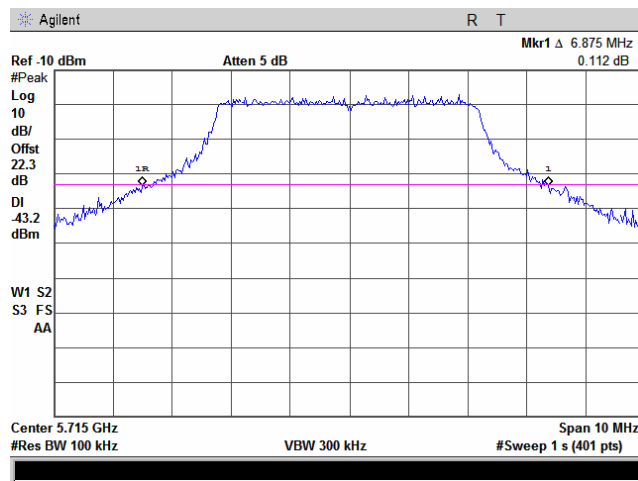


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

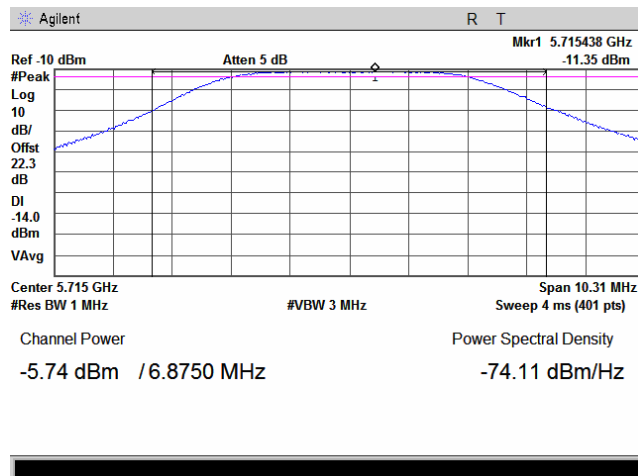
Plot 7.1.139 The 26 dB emission bandwidth

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



Plot 7.1.140 Peak output power

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



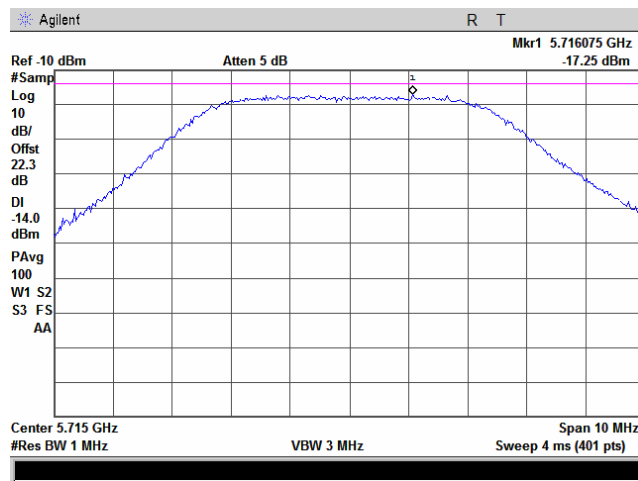


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

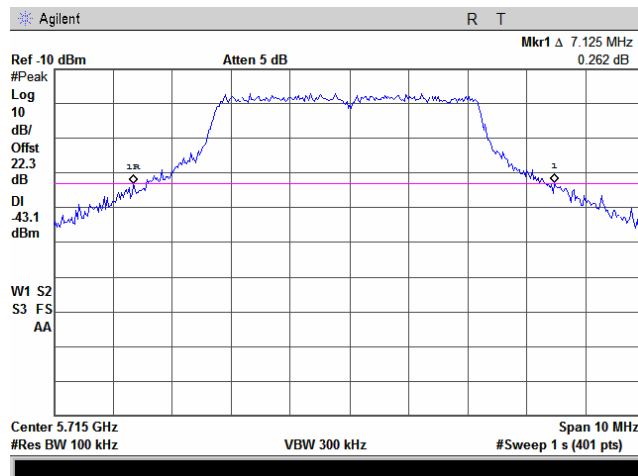
Plot 7.1.141 Peak spectral power density

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



Plot 7.1.142 The 26 dB emission bandwidth

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



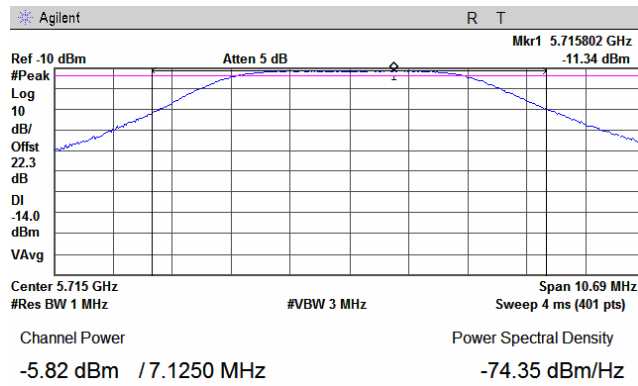


HERMON LABORATORIES

<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>	11/25/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1010 hPa	<b>Relative Humidity:</b> 54 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

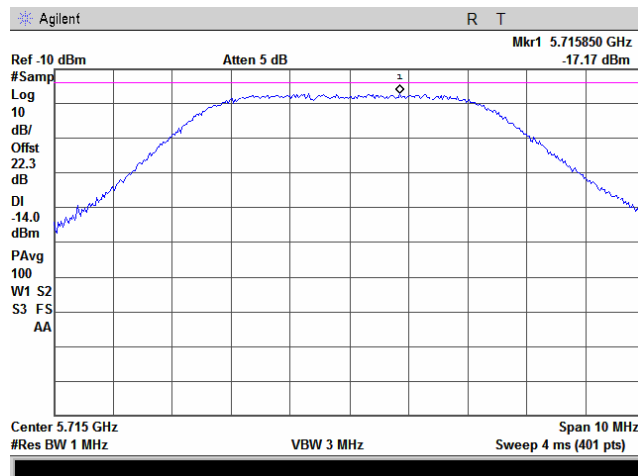
Plot 7.1.143 Peak output power

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



Plot 7.1.144 Peak spectral power density

Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 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>	11/25/2008		
<b>Temperature:</b> 23 °C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<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.

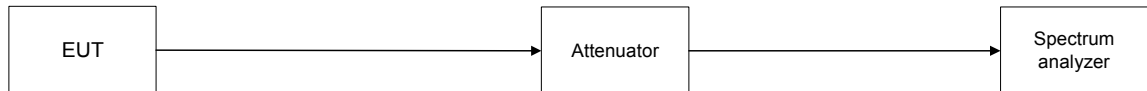
7.2.2.2 The EUT was adjusted to produce maximum available to end user RF output power.

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, Table 7.2.3 and shown in the associated plots.

Figure 7.2.1 Band edge emission 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>	12/07/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 48%	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

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  
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</b>							
5490	13	-1.840	-6.816	4.976	13	-8.024	Pass
5490	130	-1.462	-7.362	5.900	13	-7.100	Pass
5485	6.5	-2.816	-8.022	5.206	13	-7.794	Pass
5485	65	-2.893	-7.455	4.562	13	-8.438	Pass
5480	3.25	-2.142	-7.300	5.158	13	-7.842	Pass
5480	32.5	-1.829	-7.017	5.188	13	-7.812	Pass
<b>First mid channel</b>							
5580	13	-2.774	-7.528	4.754	13	-8.246	Pass
5580	130	-1.931	-7.461	5.530	13	-7.470	Pass
5585	6.5	-3.700	-9.146	5.446	13	-7.554	Pass
5585	65	-4.022	-9.308	5.286	13	-7.714	Pass
5590	3.25	-3.694	-8.885	5.191	13	-7.809	Pass
5590	32.5	-2.822	-7.975	5.153	13	-7.847	Pass
<b>Second mid channel</b>							
5670	13	-3.218	-8.326	5.108	13	-7.892	Pass
5670	130	-3.330	-9.210	5.880	13	-7.120	Pass
5665	6.5	-4.328	-9.584	5.256	13	-7.744	Pass
5665	65	-4.425	-10.12	5.695	13	-7.305	Pass
5660	3.25	-4.599	-10.060	5.461	13	-7.539	Pass
5660	32.5	-4.363	-9.761	5.398	13	-7.602	Pass
<b>High channel</b>							
5705	13	-4.448	-9.392	4.944	13	-8.056	Pass
5705	130	-4.243	-9.862	5.619	13	-7.381	Pass
5710	6.5	-4.941	-10.390	5.449	13	-7.551	Pass
5710	65	-4.755	-9.778	5.023	13	-7.977	Pass
5715	3.25	-5.338	-10.910	5.572	13	-7.428	Pass
5715	32.5	-5.078	-10.810	5.732	13	-7.268	Pass

\* - Margin = Peak excursion – specification limit.

## Reference numbers of test equipment used

HL 2780	HL 2883	HL 3180				
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Full description is given in Appendix A.



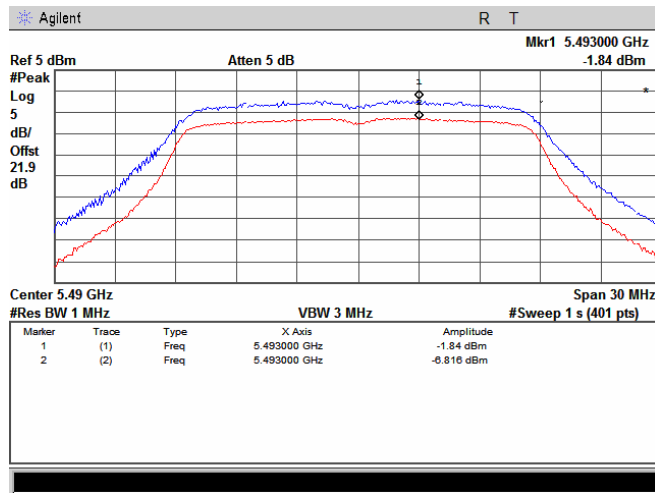


HERMON LABORATORIES

<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>	12/07/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 48%	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

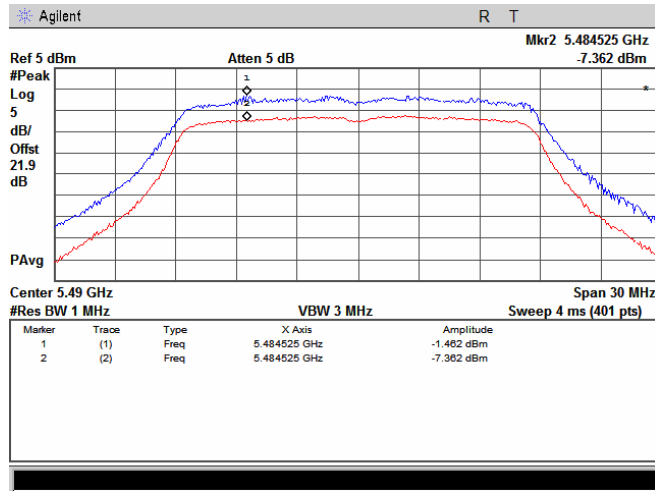
**Plot.7.2.1 Peak excursion measurement**

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



**Plot.7.2.2 Peak excursion measurement**

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

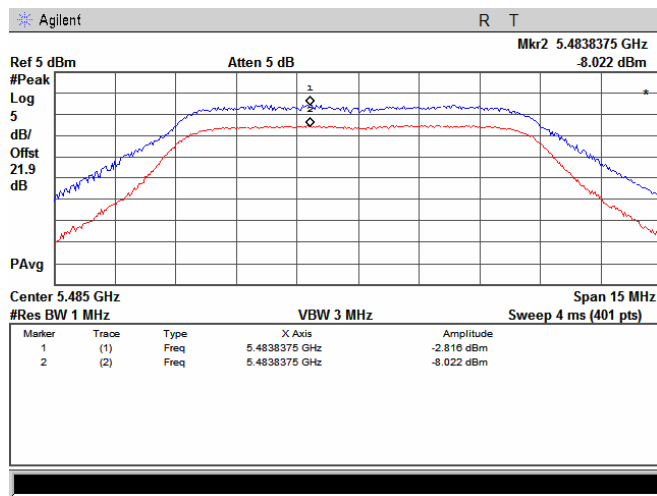




<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	12/07/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 48%	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

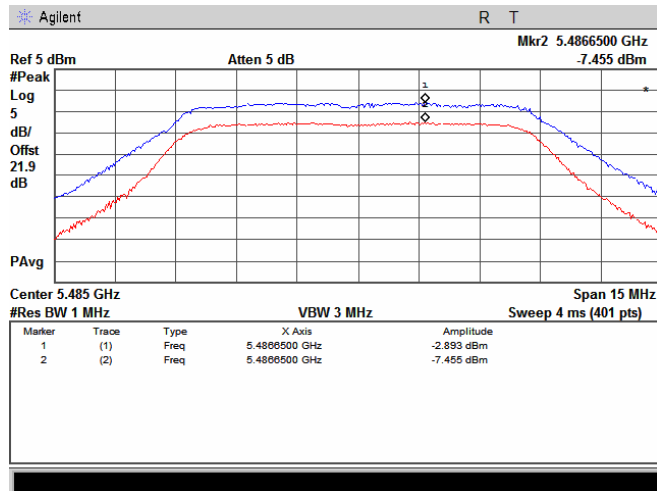
Plot 7.2.3 Peak excursion measurement

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



Plot 7.2.4 Peak excursion measurement

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

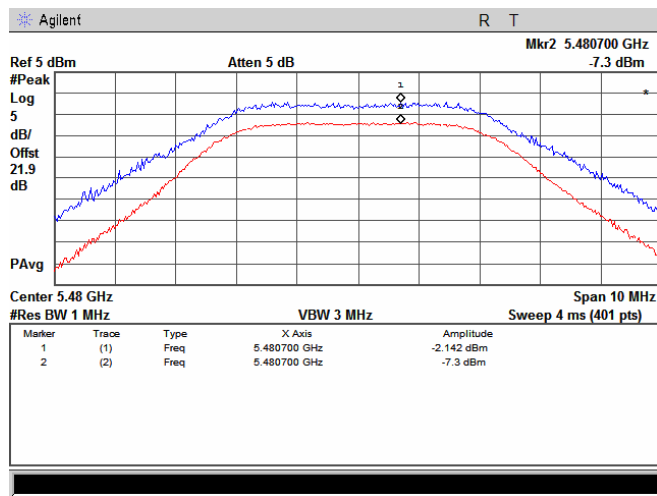




<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	12/07/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 48%	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

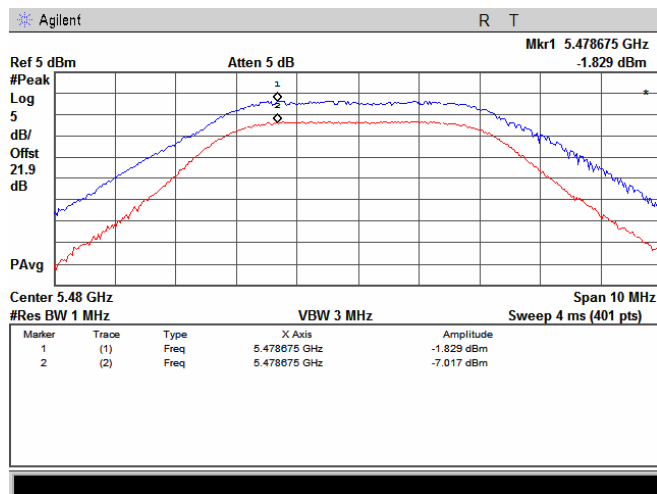
Plot 7.2.5 Peak excursion measurement

Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK; 3.25 MBps



Plot 7.2.6 Peak excursion measurement

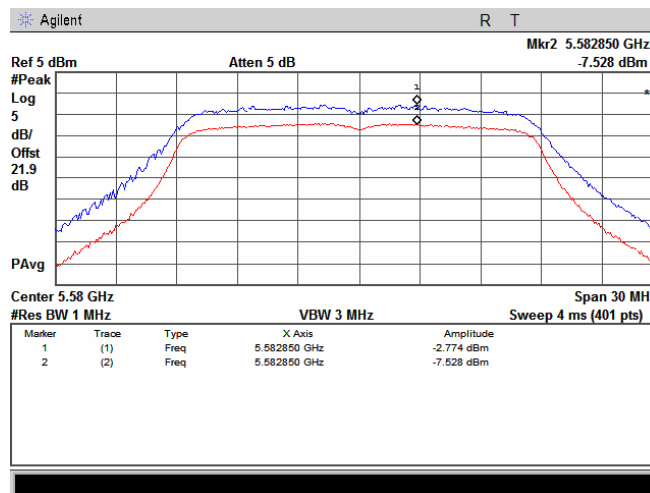
Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 32.5 MBps



<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>	12/07/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 48%	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

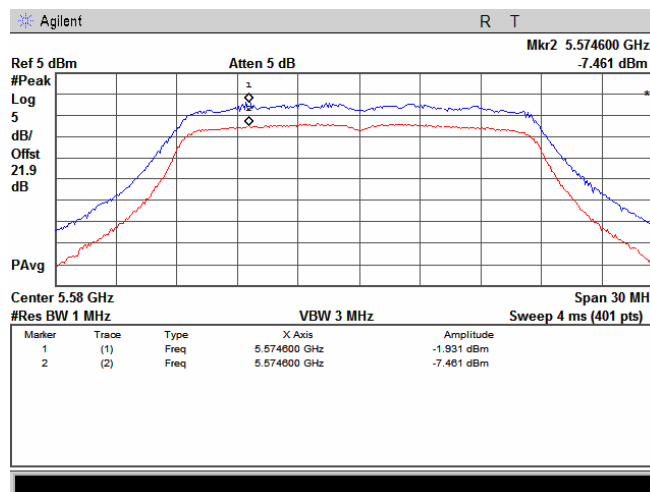
**Plot.7.2.7 Peak excursion measurement**

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



**Plot.7.2.8 Peak excursion measurement**

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



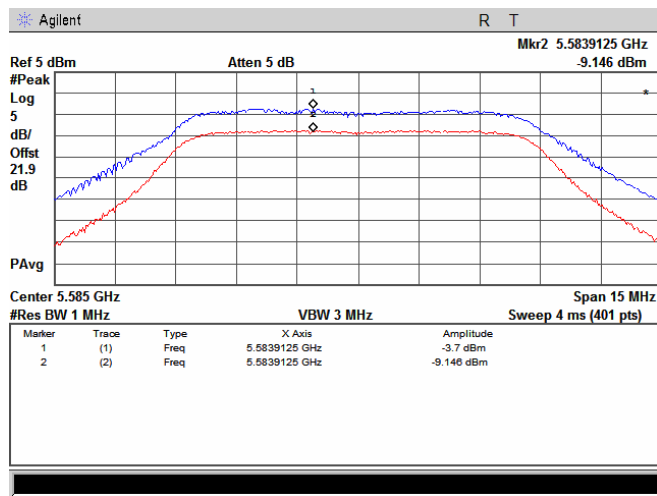


HERMON LABORATORIES

<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>	12/07/2008	<b>Relative Humidity:</b>	48%
<b>Temperature:</b>	22°C	<b>Air Pressure:</b>	1009 hPa
<b>Remarks:</b>	EUT with 22.5 dBi antenna assembly gain	<b>Power Supply:</b>	120 VAC

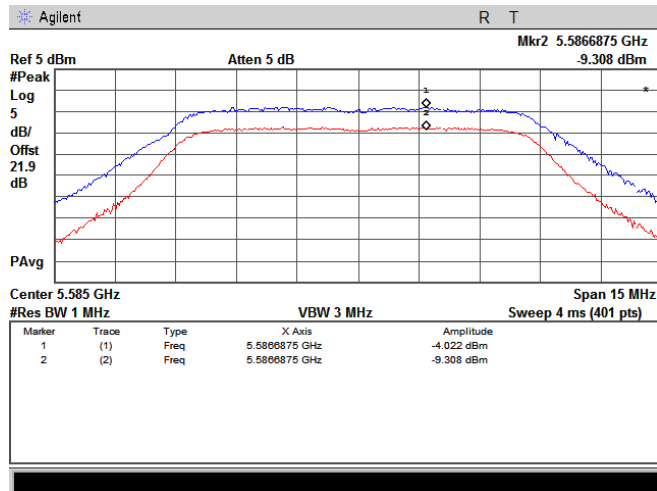
Plot 7.2.9 Peak excursion measurement

Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK; 6.5 MBps



Plot 7.2.10 Peak excursion measurement

Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 65 MBps



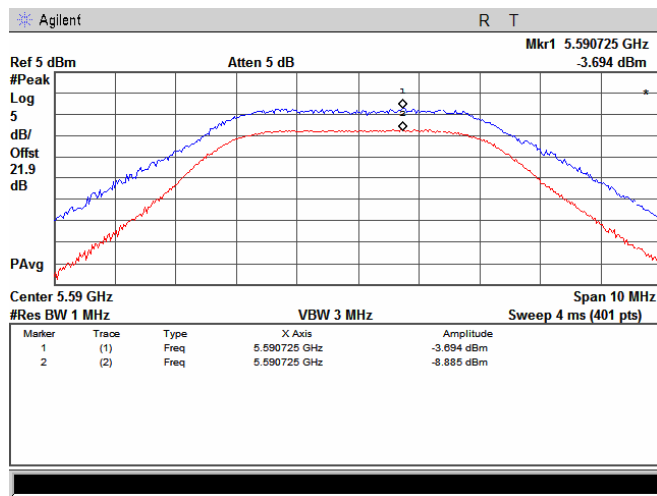


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<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	12/07/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 48%	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

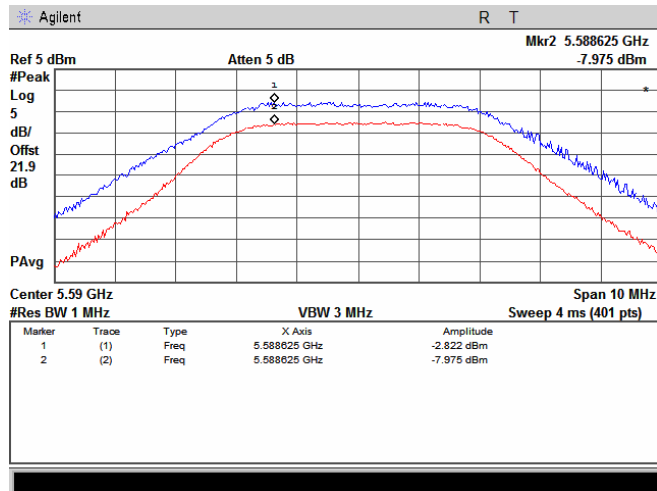
Plot 7.2.11 Peak excursion measurement

Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK; 3.25 MBps



Plot 7.2.12 Peak excursion measurement

Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 32.5 MBps



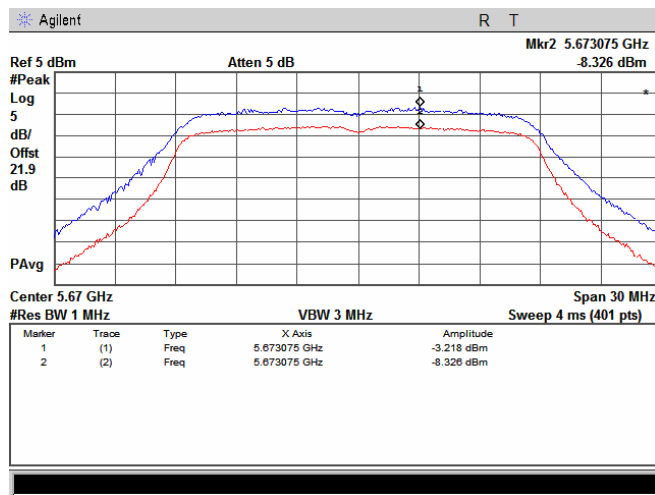


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(a)(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>	12/07/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 48%	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

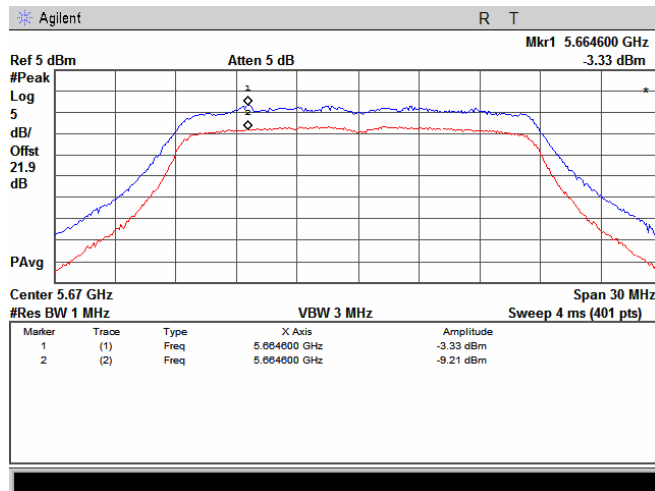
Plot.7.2.13 Peak excursion measurement

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



Plot.7.2.14 Peak excursion measurement

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



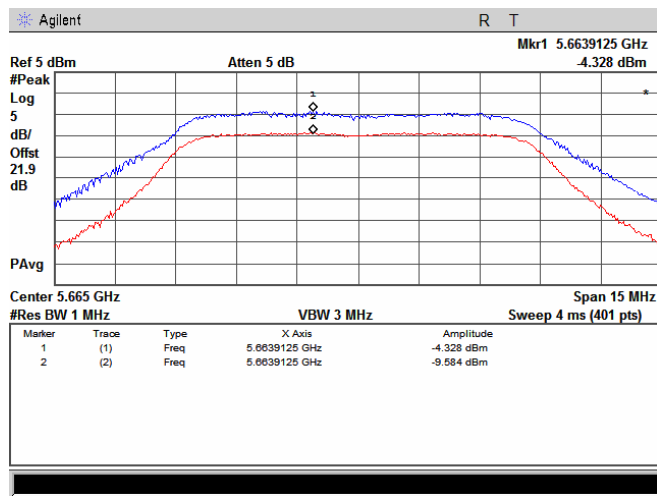


HERMON LABORATORIES

<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> 12/07/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 48%	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

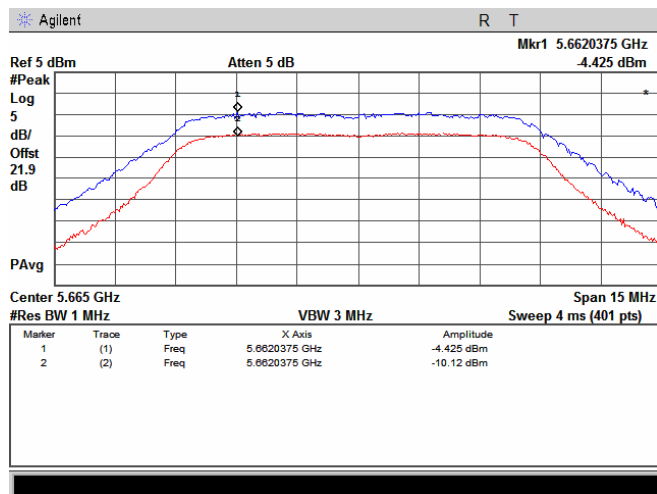
Plot 7.2.15 Peak excursion measurement

Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK; 6.5 MBps



Plot 7.2.16 Peak excursion measurement

Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	QPSK; 65 MBps





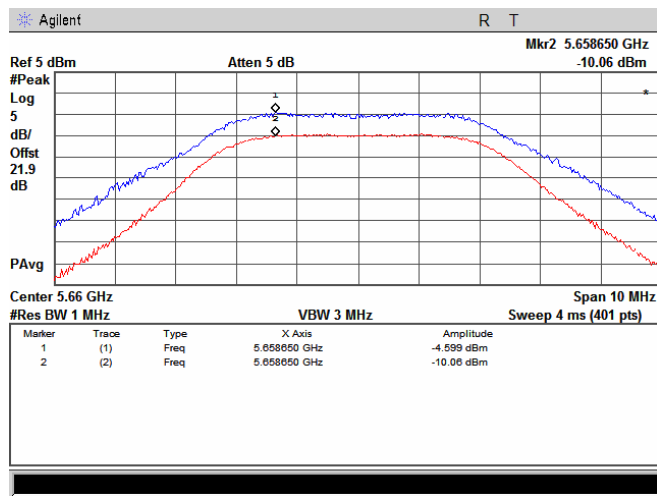


HERMON LABORATORIES

<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> 12/07/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 48%	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

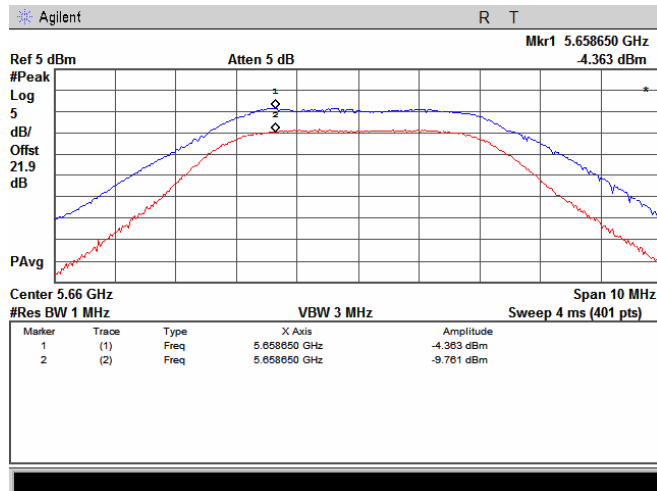
Plot 7.2.17 Peak excursion measurement

Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK; 3.25 MBps



Plot 7.2.18 Peak excursion measurement

Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 32.5 MBps



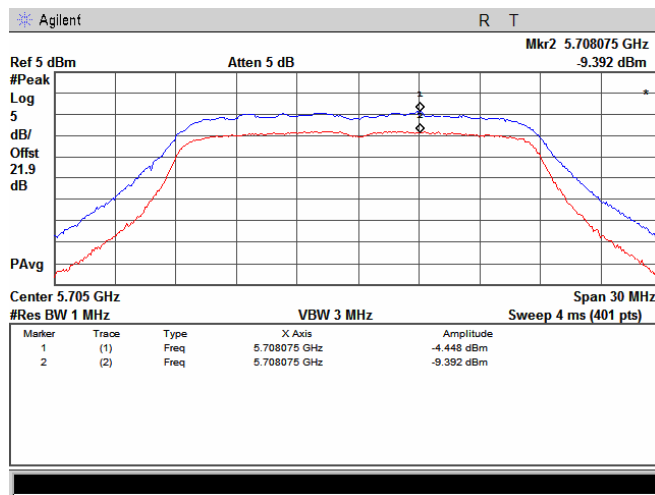


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(a)(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>	12/07/2008	<b>Relative Humidity:</b>	48%
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1009 hPa	<b>Power Supply:</b>	120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

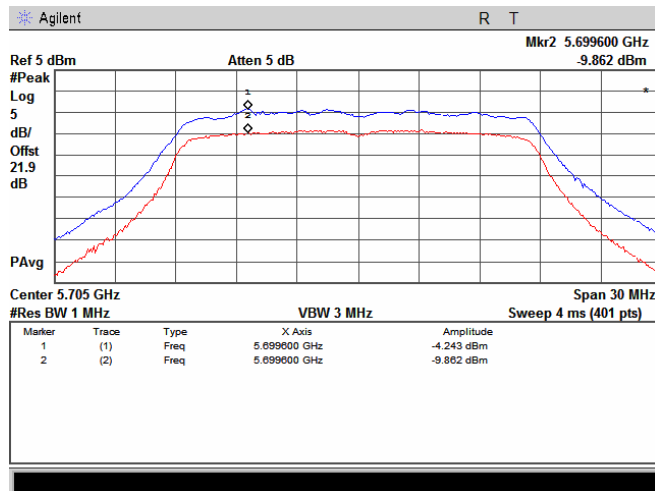
Plot.7.2.19 Peak excursion measurement

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



Plot.7.2.20 Peak excursion measurement

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



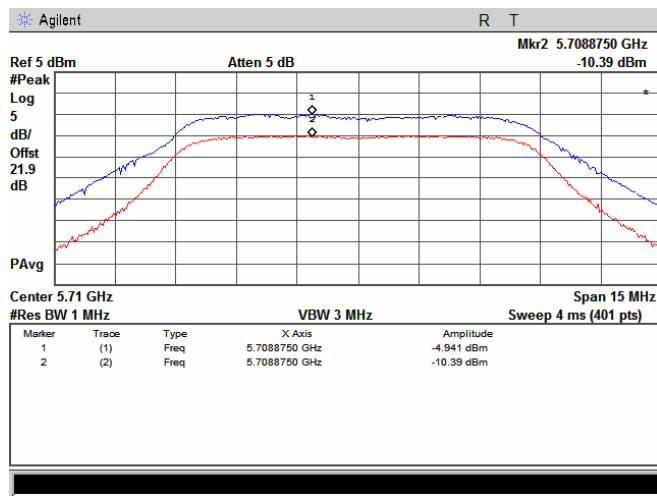


HERMON LABORATORIES

<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> 12/07/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 48%	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

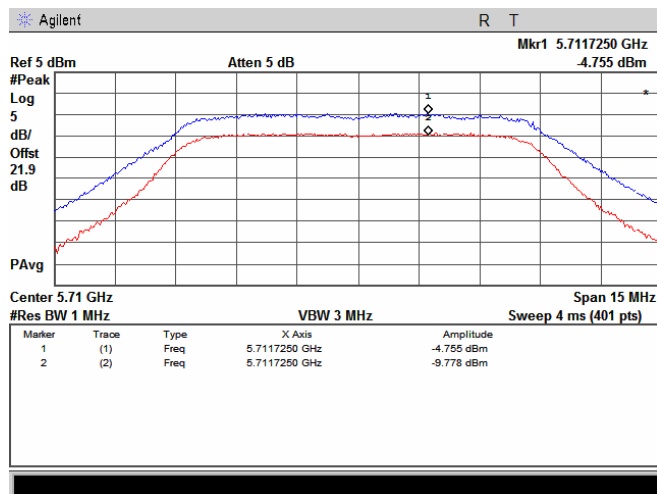
Plot 7.2.21 Peak excursion measurement

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



Plot 7.2.22 Peak excursion measurement

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

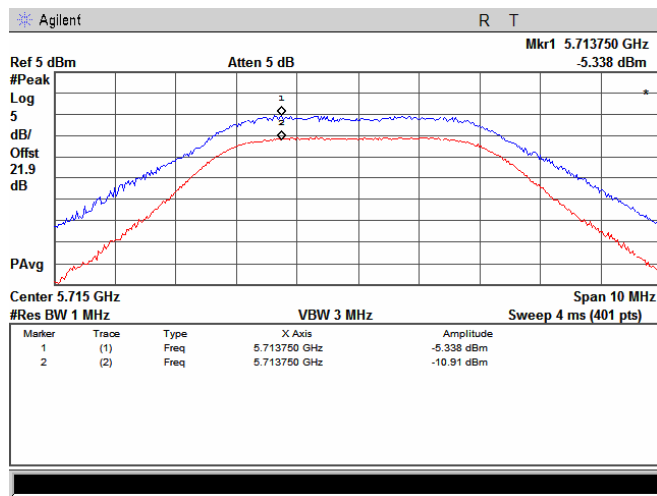




<b>Test specification:</b> FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power			
<b>Test procedure:</b> FCC Public Notice DA 02-2138, Appendix A			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/07/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 48%	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

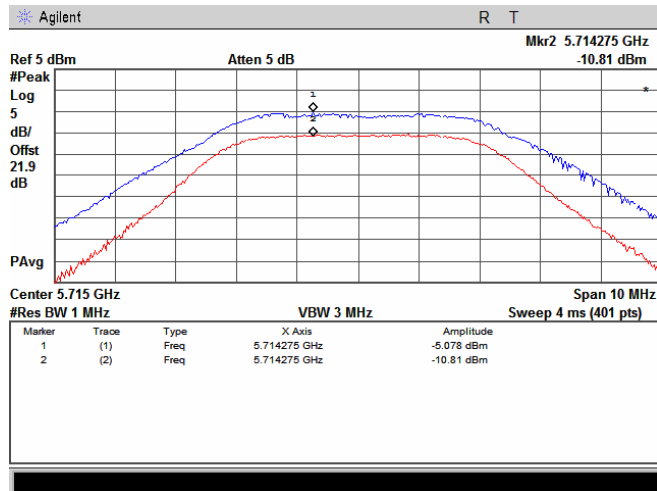
Plot 7.2.23 Peak excursion measurement

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



Plot 7.2.24 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(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>	11/25/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

**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  
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</b>							
5490	13	-9.687	-13.190	3.503	13	-9.497	Pass
5490	130	-9.133	-13.670	4.537	13	-8.463	Pass
5485	6.5	-7.600	-13.390	5.790	13	-7.210	Pass
5485	65	-7.773	-13.230	5.457	13	-7.543	Pass
5480	3.25	-7.787	-14.160	6.373	13	-6.627	Pass
5480	32.5	-7.640	-13.010	5.370	13	-7.630	Pass
<b>Mid channel</b>							
5580	13	-8.822	-12.330	3.508	13	-9.492	Pass
5580	130	-7.823	-12.350	4.527	13	-8.473	Pass
5585	6.5	-6.286	-11.890	5.604	13	-7.396	Pass
5585	65	-6.741	-11.830	5.089	13	-7.911	Pass
5590	3.25	-5.887	-11.730	5.843	13	-7.157	Pass
5590	32.5	-6.651	-12.130	5.479	13	-7.521	Pass
<b>Mid channel (IC only)</b>							
5670	13	-9.524	-13.190	3.666	13	-9.334	Pass
5670	130	-8.485	-13.210	4.725	13	-8.275	Pass
5665	6.5	-6.413	-12.030	5.617	13	-7.383	Pass
5665	65	-6.603	-11.930	5.327	13	-7.673	Pass
5660	3.25	-6.003	-12.270	6.267	13	-6.733	Pass
5660	32.5	-6.145	-12.000	5.855	13	-7.145	Pass
<b>High channel</b>							
5705	13	-9.819	-12.910	3.091	13	-9.909	Pass
5705	130	-7.913	-12.390	4.477	13	-8.523	Pass
5710	6.5	-6.546	-12.050	5.504	13	-7.496	Pass
5710	65	-6.660	-12.020	5.360	13	-7.640	Pass
5715	3.25	-5.494	-10.920	5.426	13	-7.574	Pass
5715	32.5	-5.450	-11.140	5.690	13	-7.310	Pass

\* - Margin = Peak excursion – specification limit.

**Reference numbers of test equipment used**

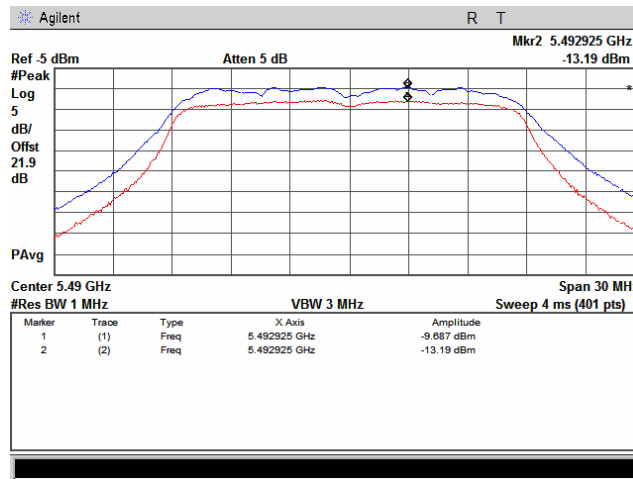
HL 2780	HL 2883	HL 3180					
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Full description is given in Appendix A.

<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>	11/25/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

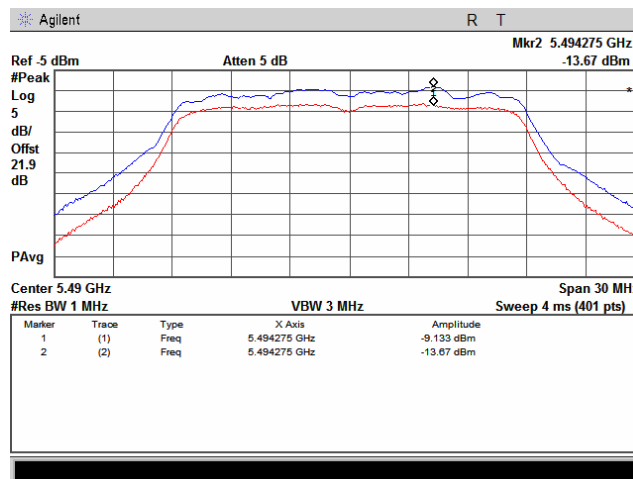
**Plot.7.2.25 Peak excursion measurement**

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



**Plot.7.2.26 Peak excursion measurement**

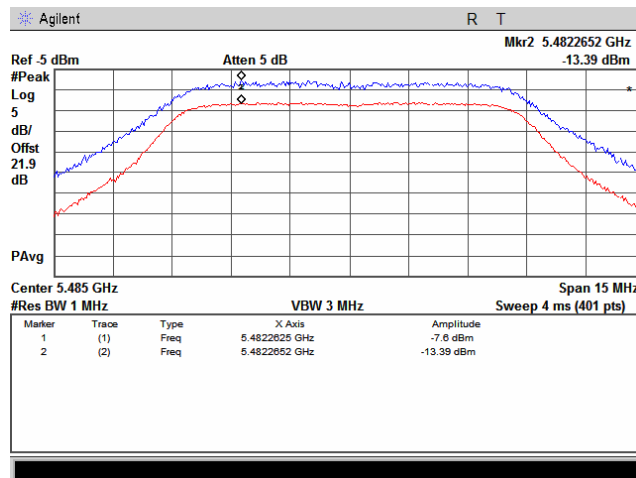
Frequency: 5490 MHz  
Channel BW: 20 MHz  
Modulation parameters: QPSK; 130 MBps



<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>	11/25/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

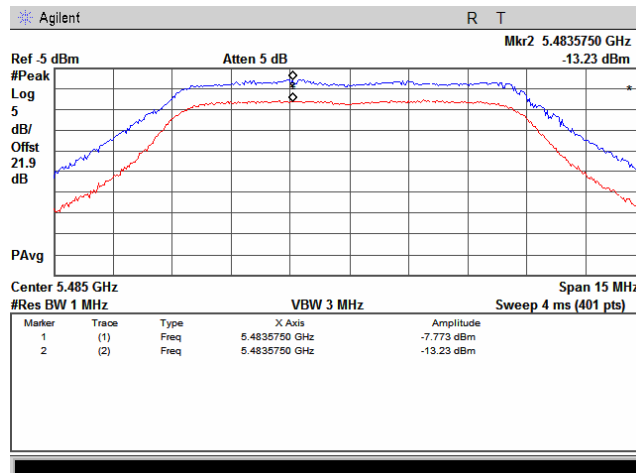
**Plot 7.2.27 Peak excursion measurement**

<b>Frequency:</b>	5485 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	BPSK; 6.5 MBps



**Plot 7.2.28 Peak excursion measurement**

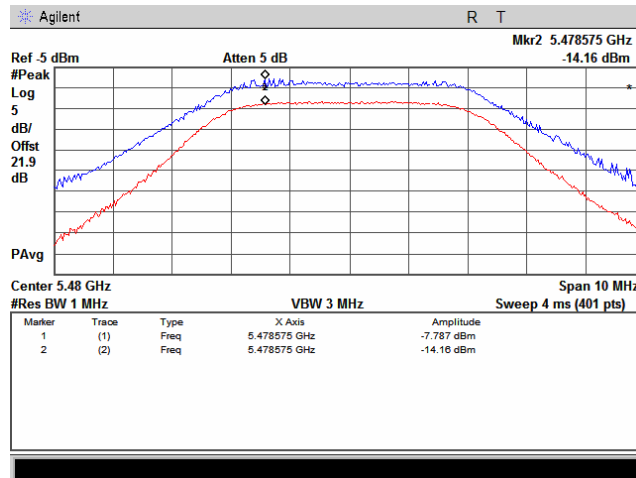
<b>Frequency:</b>	5485 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	QPSK; 65 MBps



<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>	11/25/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

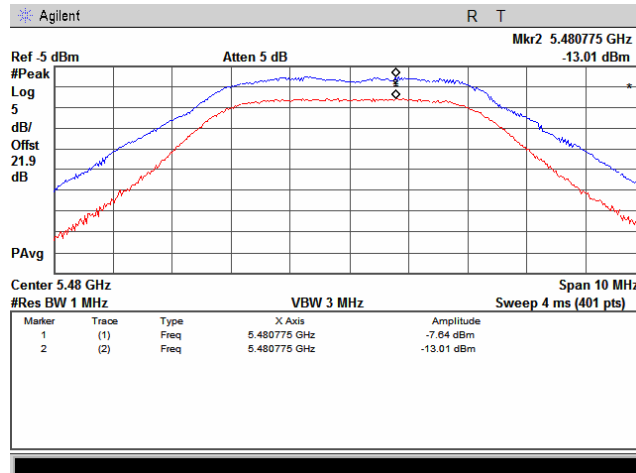
**Plot 7.2.29 Peak excursion measurement**

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



**Plot 7.2.30 Peak excursion measurement**

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

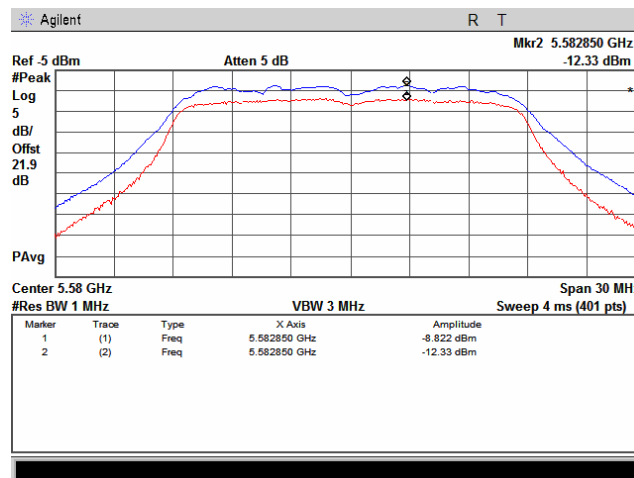




<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

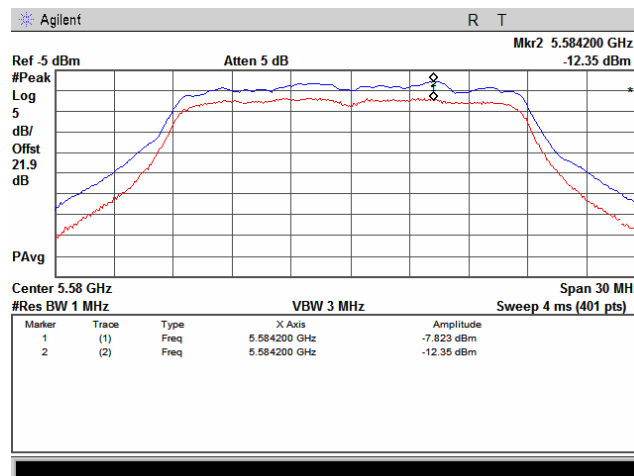
**Plot.7.2.31 Peak excursion measurement**

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



**Plot.7.2.32 Peak excursion measurement**

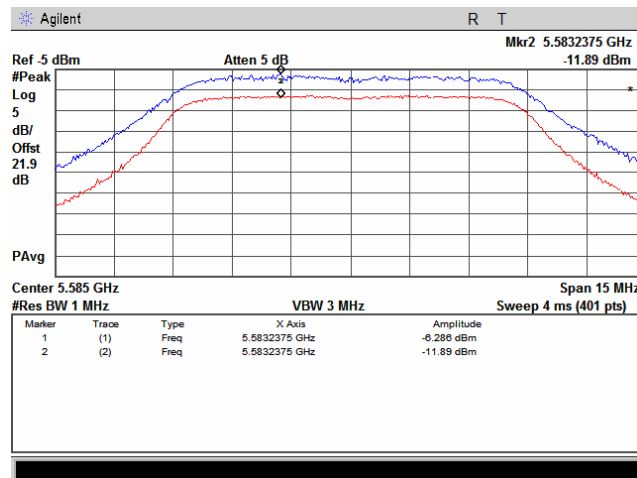
Frequency: 5580 MHz  
Channel BW: 20 MHz  
Modulation parameters: QPSK; 130 MBps



<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>	11/25/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

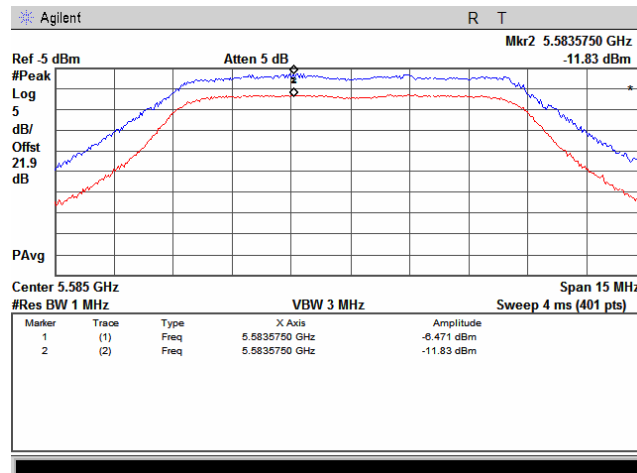
**Plot 7.2.33 Peak excursion measurement**

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



**Plot 7.2.34 Peak excursion measurement**

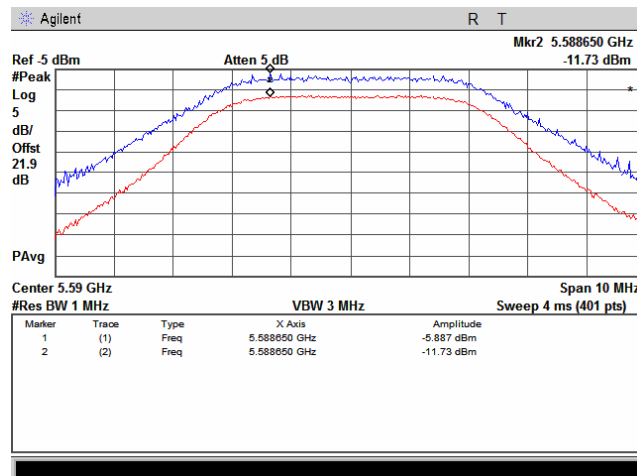
<b>Frequency:</b>	5585 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	QPSK; 65 MBps



<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>	11/25/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

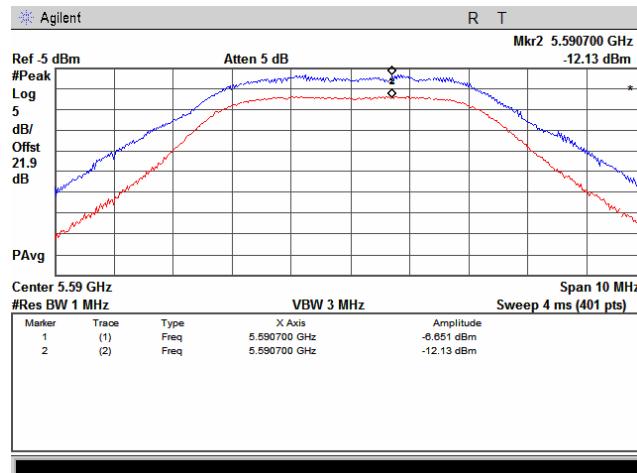
**Plot 7.2.35 Peak excursion measurement**

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



**Plot 7.2.36 Peak excursion measurement**

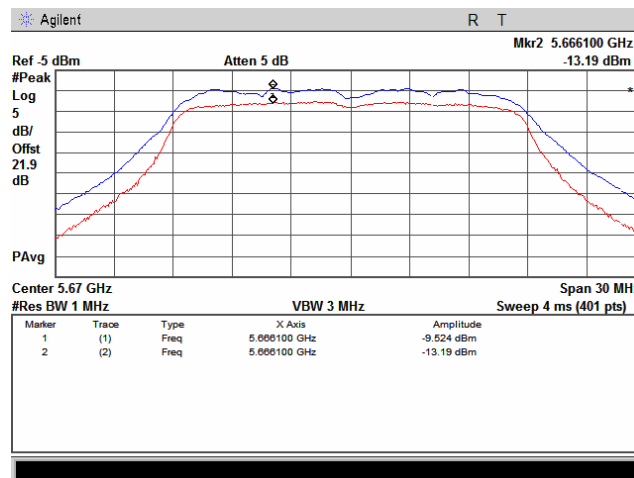
<b>Frequency:</b>	5590 MHz
<b>Channel BW:</b>	5 MHz
<b>Modulation parameters:</b>	64QAM; 32.5 MBps



<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>	11/25/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

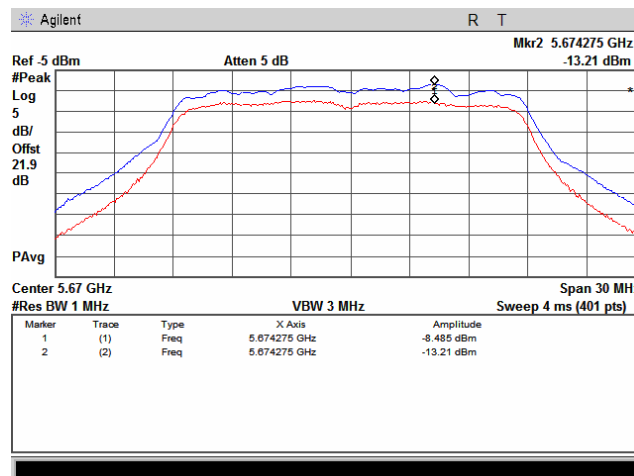
**Plot.7.2.37 Peak excursion measurement**

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



**Plot.7.2.38 Peak excursion measurement**

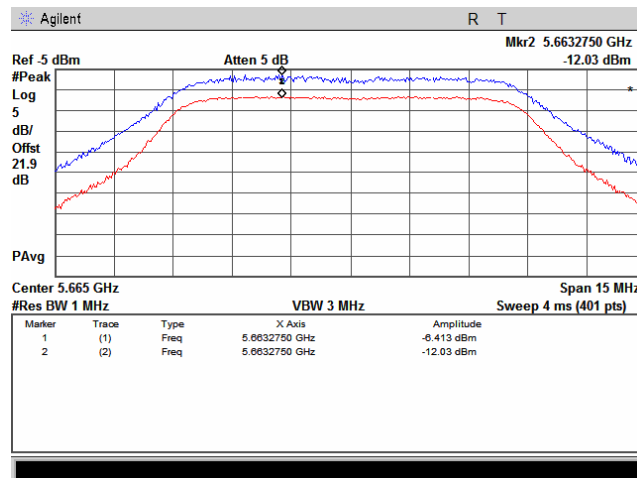
Frequency: 5670 MHz  
Channel BW: 20 MHz  
Modulation parameters: QPSK; 130 MBps



<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>	11/25/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

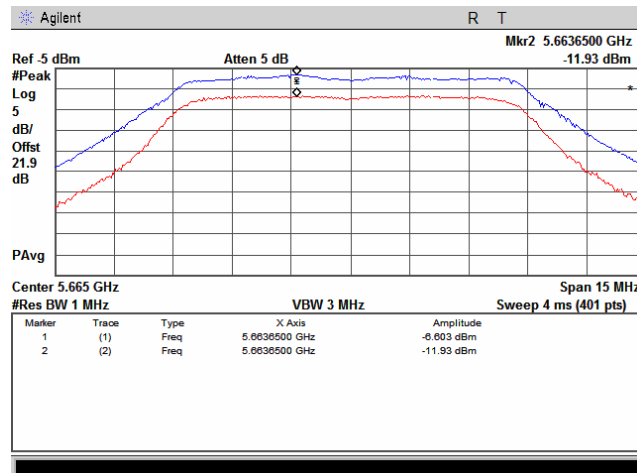
**Plot 7.2.39 Peak excursion measurement**

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



**Plot 7.2.40 Peak excursion measurement**

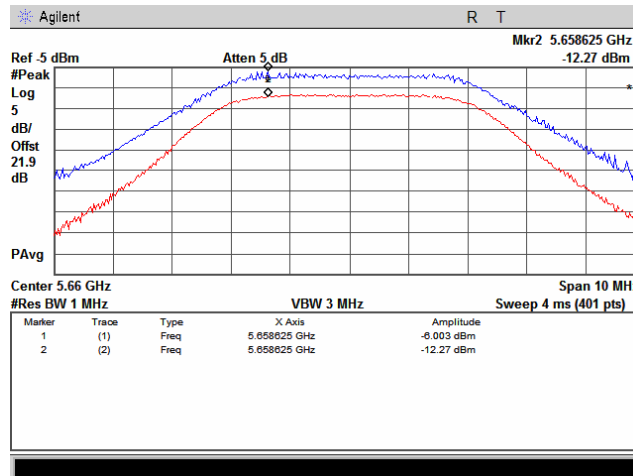
<b>Frequency:</b>	5665 MHz
<b>Channel BW:</b>	10 MHz
<b>Modulation parameters:</b>	QPSK; 65 MBps



<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>	11/25/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

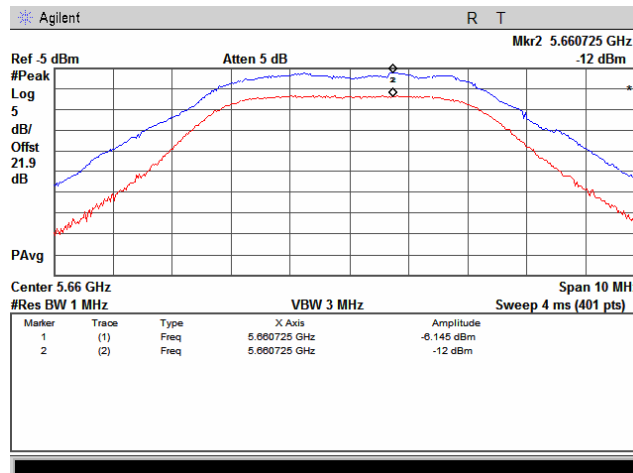
**Plot 7.2.41 Peak excursion measurement**

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



**Plot 7.2.42 Peak excursion measurement**

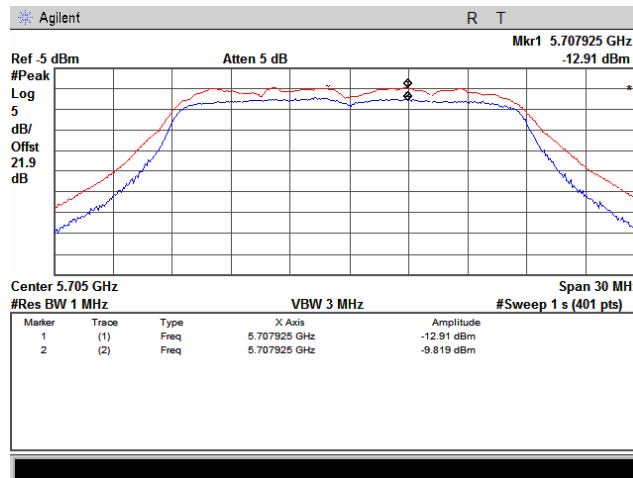
<b>Frequency:</b>	5660 MHz
<b>Channel BW:</b>	5 MHz
<b>Modulation parameters:</b>	64QAM; 32.5 MBps



<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>	11/25/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

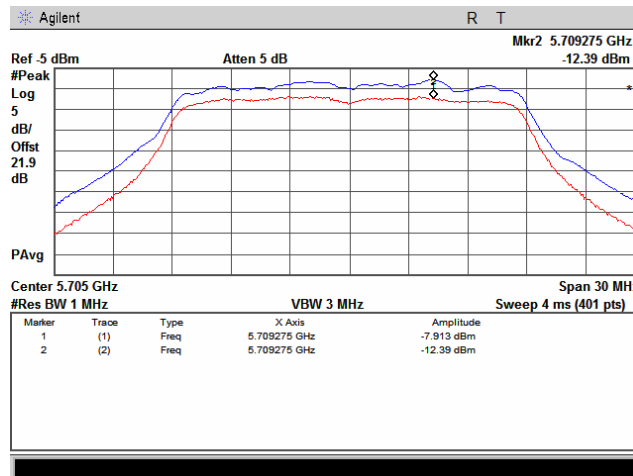
**Plot.7.2.43 Peak excursion measurement**

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



**Plot.7.2.44 Peak excursion measurement**

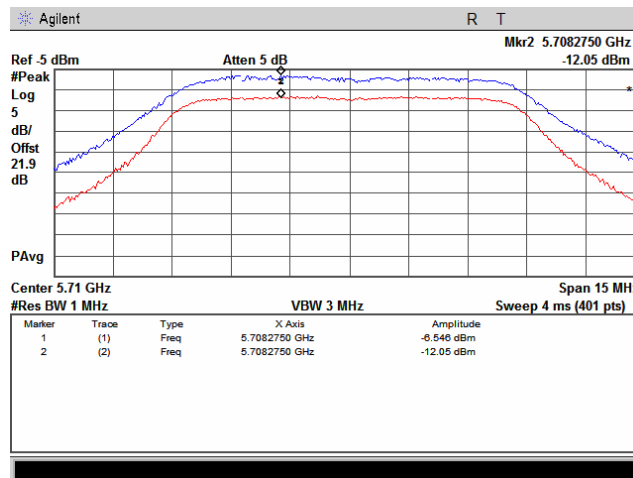
Frequency: 5705 MHz  
Channel BW: 20 MHz  
Modulation parameters: QPSK; 130 MBps



<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>	11/25/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

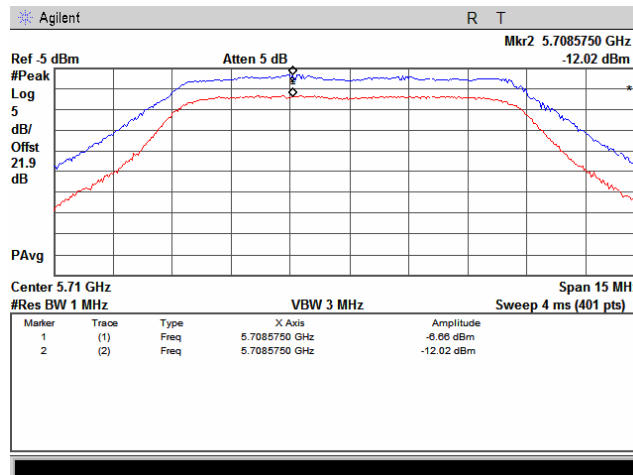
**Plot 7.2.45 Peak excursion measurement**

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



**Plot 7.2.46 Peak excursion measurement**

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

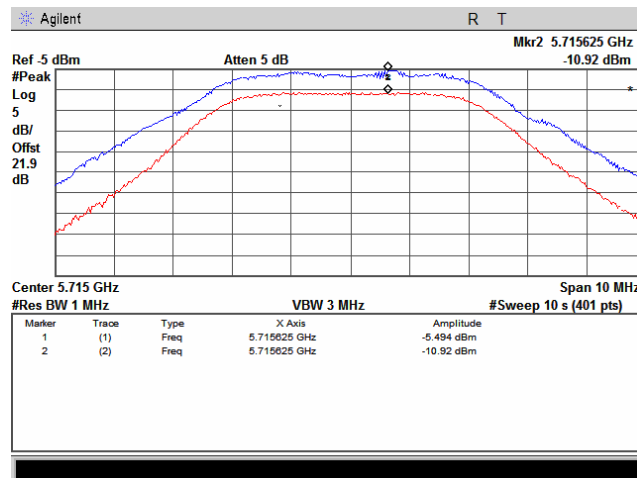




<b>Test specification:</b>	<b>FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power</b>		
<b>Test procedure:</b>	FCC Public Notice DA 02-2138, Appendix A		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/25/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 52 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

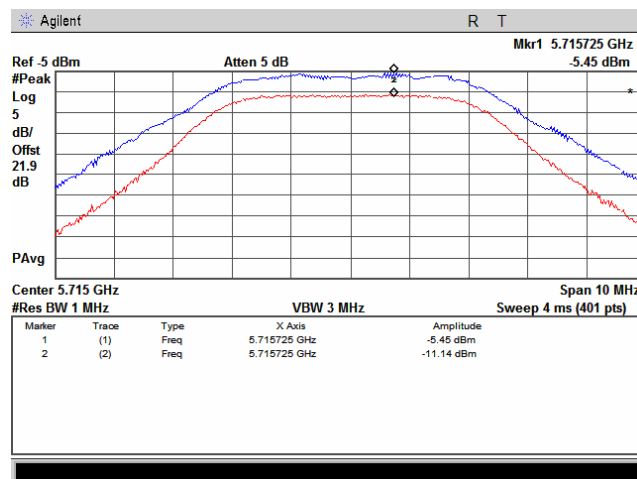
Plot 7.2.47 Peak excursion measurement

Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK; 3.25 MBps



Plot 7.2.48 Peak excursion measurement

Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	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>	12/04/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1011 hPa	<b>Relative Humidity:</b> 45 %	<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( $\mu$ V/m) <sup>***</sup>		
	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( $\mu$ V/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>	12/04/2008		
<b>Temperature:</b> 23°C	<b>Air Pressure:</b> 1011 hPa	<b>Relative Humidity:</b> 45 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b>			

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

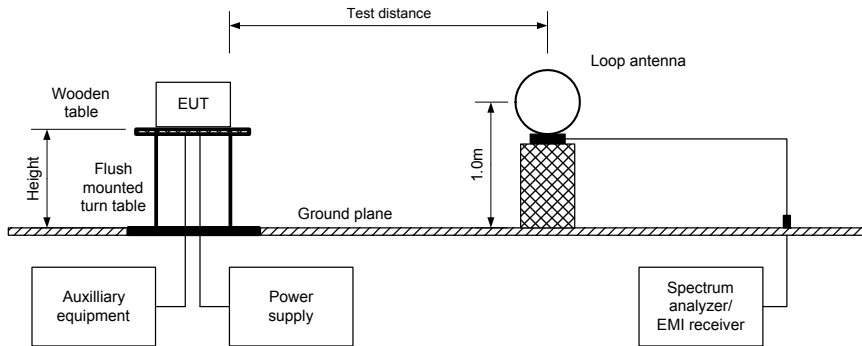
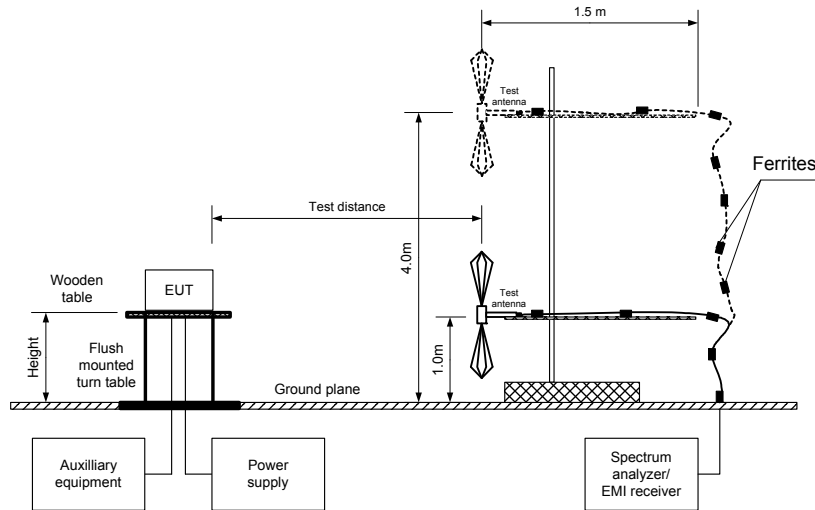


Figure 7.3.2 Setup for spurious emission field strength measurements above 30 MHz





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<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>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

**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, 64QAM
BIT RATE:	32.5 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)

Frequency, MHz	Peak, dB(µV/m)	Quasi-peak dB(µV/m)			Antenna polariz.	Antenna height, m	Turntable position**, degrees	Verdict
		Measured emission, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*				
<b>Low channel (5490 MHz)</b>								Pass
87.45	24.80	20.80	40.00	-19.20	Vertical	1.0	45	
800.00	39.80	35.90	46.00	-10.10	Vertical	1.5	90	
933.33	37.90	35.90	46.00	-10.10	Vertical	1.3	90	
<b>First mid channel (5580 MHz)</b>								
87.65	27.85	20.80	40.00	-19.20	Vertical	1.0	45	
800.00	38.40	35.80	46.00	-10.20	Vertical	1.5	90	
933.33	38.50	36.10	46.00	-9.90	Vertical	1.3	90	
<b>Second mid channel (5670 MHz)</b>								
87.62	28.30	20.90	40.00	-19.10	Vertical	1.0	45	
800.00	39.70	35.50	46.00	-8.50	Vertical	1.5	90	
933.33	38.20	36.20	46.00	-9.80	Vertical	1.3	90	
<b>High channel (5705 MHz)</b>								
87.44	26.45	21.10	40.00	-18.90	Vertical	1.0	45	
800.00	38.90	35.90	46.00	-10.10	Vertical	1.5	90	
933.33	38.00	36.10	46.00	-9.90	Vertical	1.3	90	

\*- 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 0589	HL 0604	HL 1425	HL 1556	HL 1984	HL 1947
HL 2009	HL 2909						

Full description is given in Appendix A.



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<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>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

**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, 64QAM  
 BIT RATE: 32.5 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)

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>Low channel (5490 MHz)</b>											
1001.00	51.86	74.00	-22.14	46.02	54.00	-7.98	Vertical	2.0	45	Pass	
1066.66	56.20	74.00	-17.80	48.72	54.00	-5.28	Vertical	1.0	270		
1200.00	54.88	74.00	-19.12	51.23	54.00	-2.77	Vertical	1.0	0		
5149.6	59.30	74.00	-14.70	45.91	54.00	-8.09	Vertical	1.0	0		
<b>First mid channel (5580 MHz)</b>											
1001.0	52.15	74.00	-21.85	46.09	54.00	-7.91	Vertical	2.0	45		
1066.66	56.80	74.00	-17.20	48.75	54.00	-5.25	Vertical	1.0	270		
1200.00	55.01	74.00	-18.99	51.19	54.00	-2.81	Vertical	1.1	0		
5147.95	57.00	74.00	-17.00	43.19	54.00	-10.81	Vertical	1.0	0		
<b>Second mid channel (5670 MHz)</b>											
1001.0	56.50	74.00	-17.50	45.95	54.00	-8.05	Vertical	1.0	45		
1066.66	56.12	74.00	-17.88	48.70	54.00	-5.30	Vertical	1.0	270		
1200.0	55.20	74.00	-18.80	51.28	54.00	-2.72	Vertical	1.1	0		
5147.25	56.85	74.00	-17.15	43.10	54.00	-10.90	Vertical	1.0	0		
<b>High channel (5705 MHz)</b>											
1001.0	56.95	74.00	-17.05	46.05	54.00	-7.95	Vertical	1.0	45		
1066.66	56.30	74.00	-17.70	48.74	54.00	-5.26	Vertical	1.0	270		
1200.0	54.90	74.00	-19.10	51.33	54.00	-2.67	Vertical	1.1	0		
5148.38	56.90	74.00	-17.10	43.09	54.00	-10.91	Vertical	1.0	0		

\*- 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 0589	HL 0604	HL 1425	HL 1556	HL 1984	HL 1947
HL 2009	HL 2909						

Full description is given in Appendix A.



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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> 6/22/2008	
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa
<b>Relative Humidity:</b> 58 %	
<b>Power Supply:</b> 120 VAC	
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain	

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	

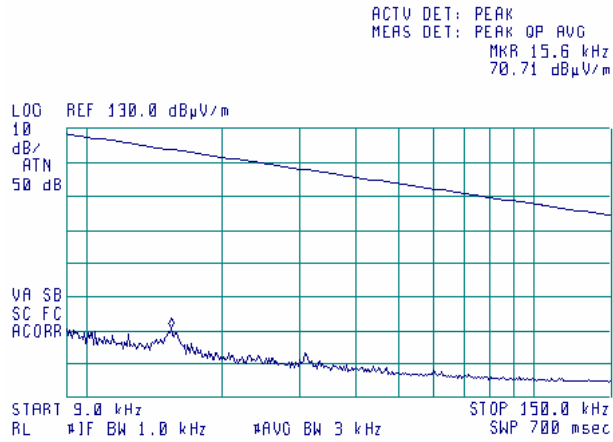


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<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

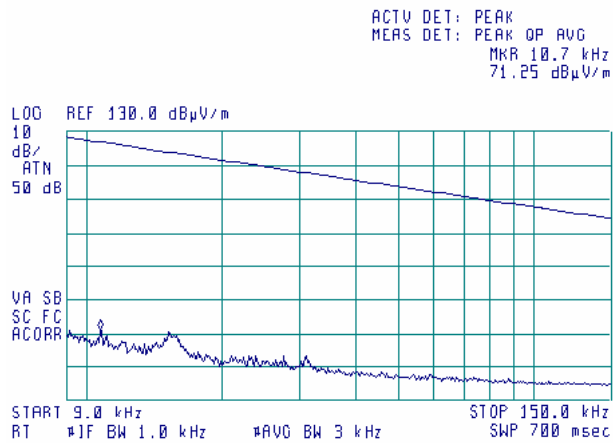
Plot 7.3.1 Radiated emission measurements from 9 to 150 kHz at the low carrier frequency

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



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



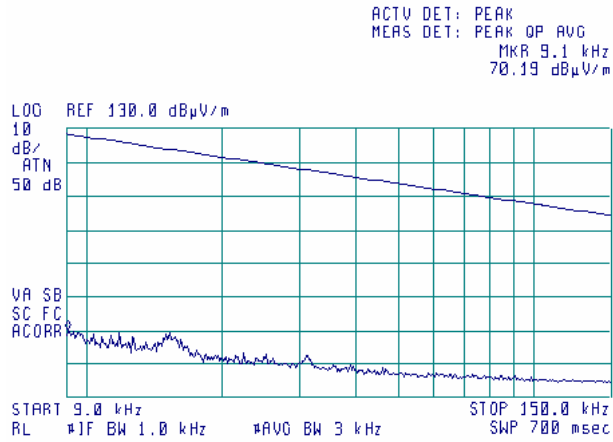


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<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

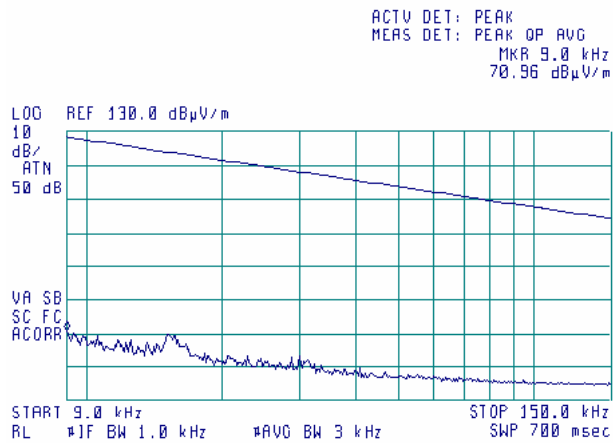
**Plot 7.3.3 Radiated emission measurements from 9 to 150 kHz at the second mid carrier frequency**

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



**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





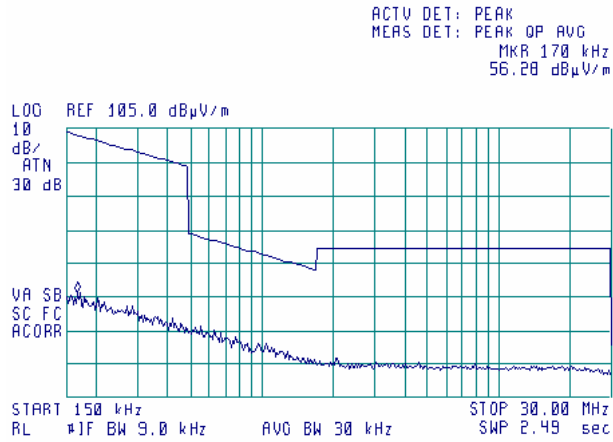


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<b>Test specification:</b>		<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions</b>	
<b>Test procedure:</b>		Public notice DA 00-705 / ANSI C63.4, Section 13.1.4	
<b>Test mode:</b>		Compliance	
<b>Date:</b>		6/22/2008	
<b>Temperature:</b> 24°C		<b>Air Pressure:</b> 1009 hPa	
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain		<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Verdict: PASS</b>			

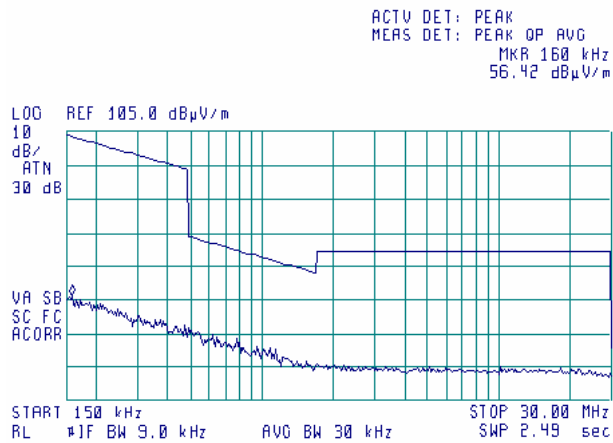
**Plot 7.3.5 Radiated emission measurements from 0.15 MHz to 30 MHz at the low carrier frequency**

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



**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



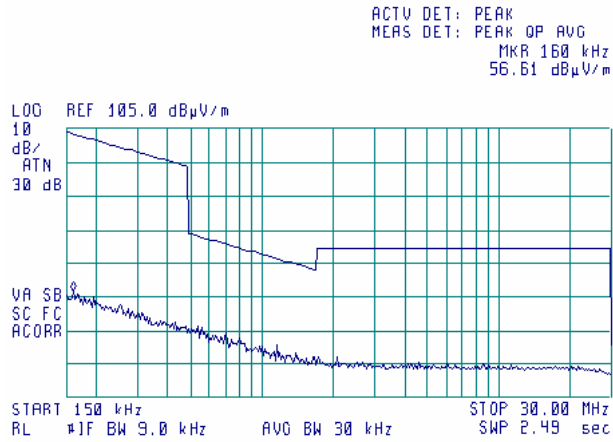


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<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

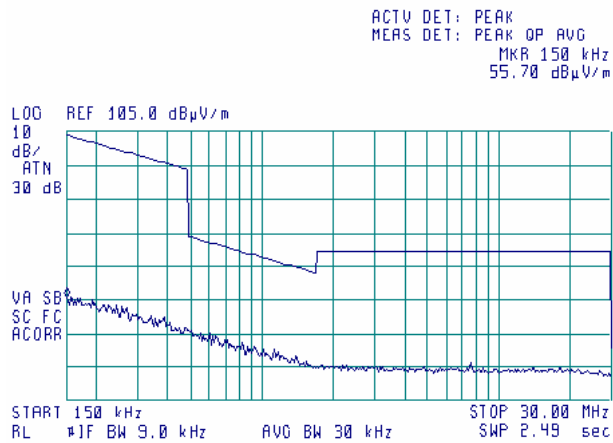
Plot 7.3.7 Radiated emission measurements from 0.15 MHz to 30 MHz at the second mid carrier frequency

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



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



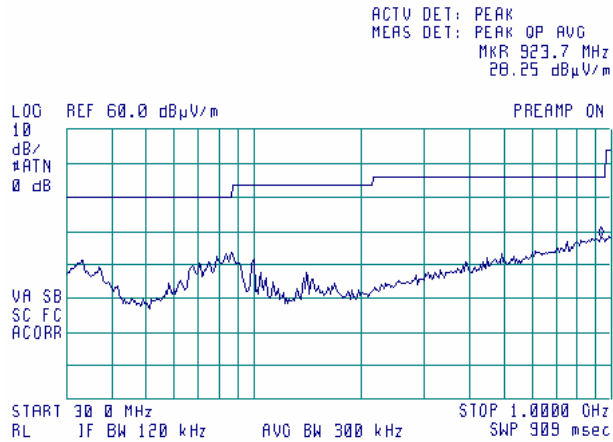


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<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

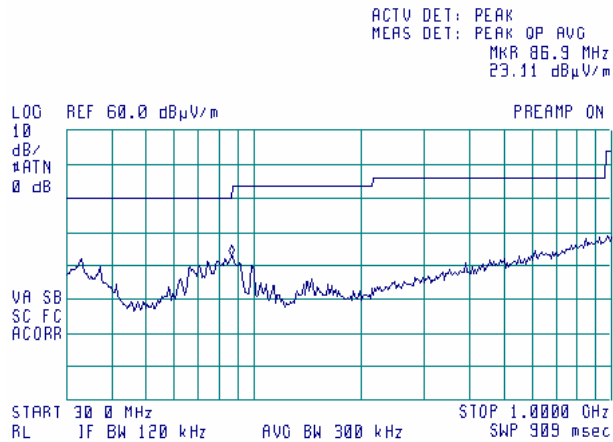
Plot 7.3.9 Radiated emission measurements from 30 MHz to 1000 MHz at the low carrier frequency

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



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



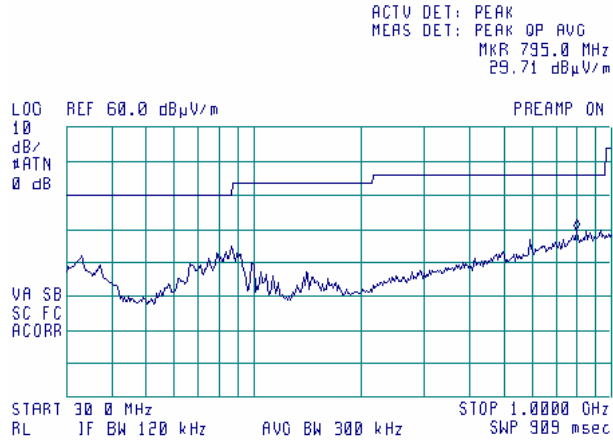


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<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

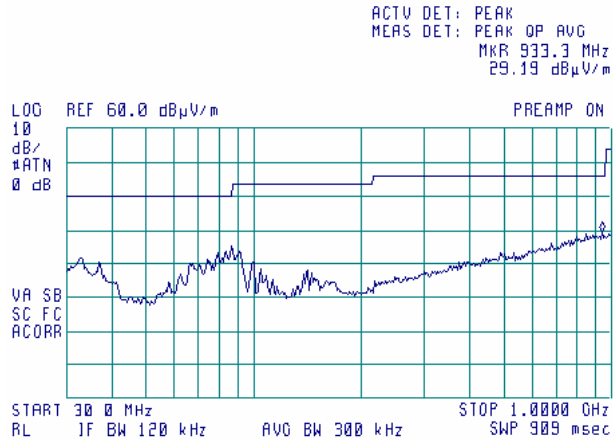
Plot 7.3.11 Radiated emission measurements from 30 MHz to 1000 MHz at the second mid carrier frequency

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



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



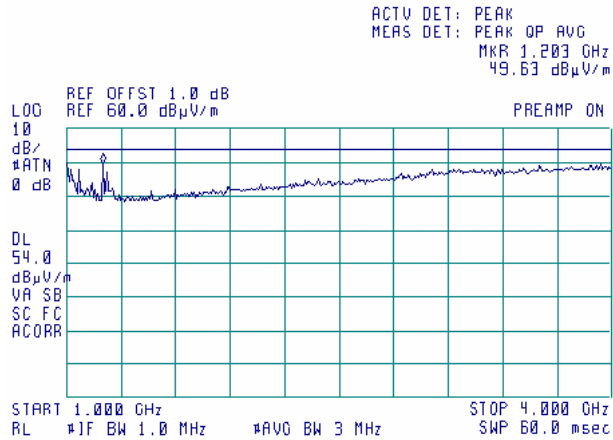


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<b>Test specification:</b>		<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions</b>	
<b>Test procedure:</b>		Public notice DA 00-705 / ANSI C63.4, Section 13.1.4	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

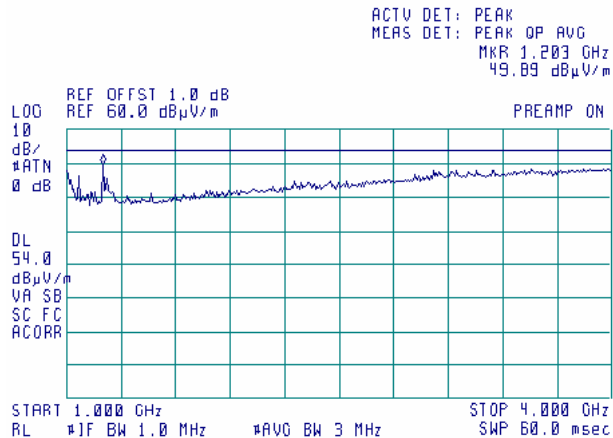
Plot 7.3.13 Radiated emission measurements from 1.0 to 4.0 GHz at the low carrier frequency

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



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



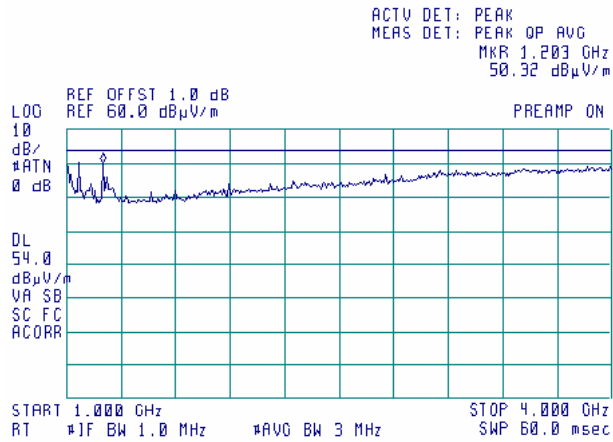


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<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Unwanted radiated emissions</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

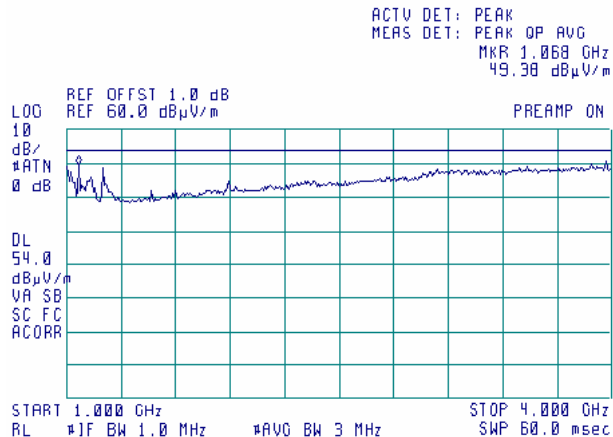
Plot 7.3.15 Radiated emission measurements from 1.0 to 4.0 GHz at the second mid carrier frequency

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



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



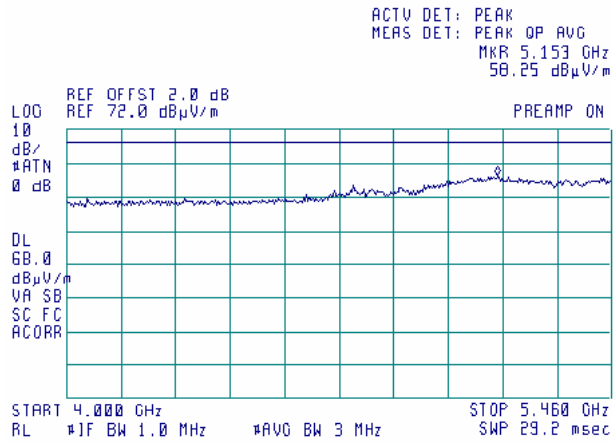


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

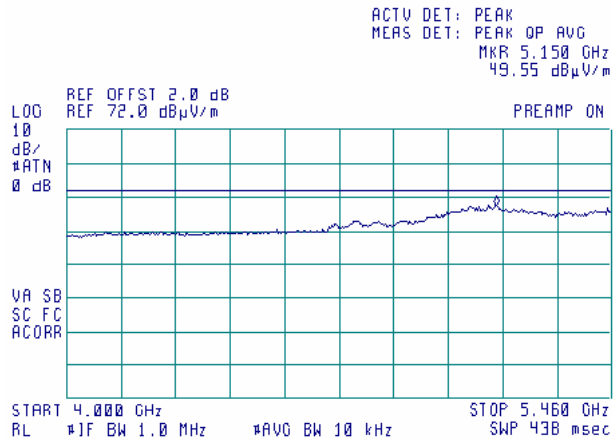
Plot 7.3.17 Radiated emission measurements from 4.0 to 5.46 GHz at the low carrier frequency

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



Plot 7.3.18 Radiated emission measurements from 4.0 to 5.46 GHz at the low carrier frequency

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



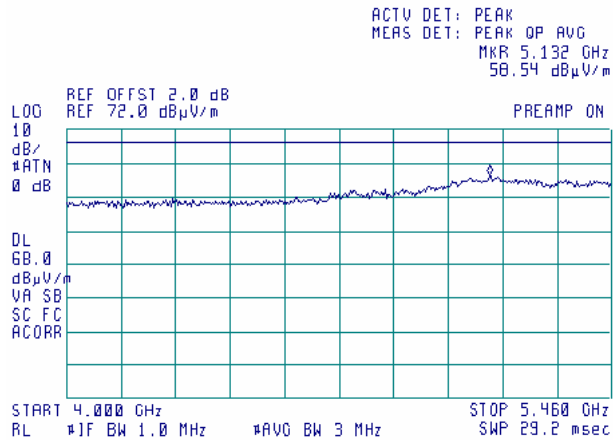


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

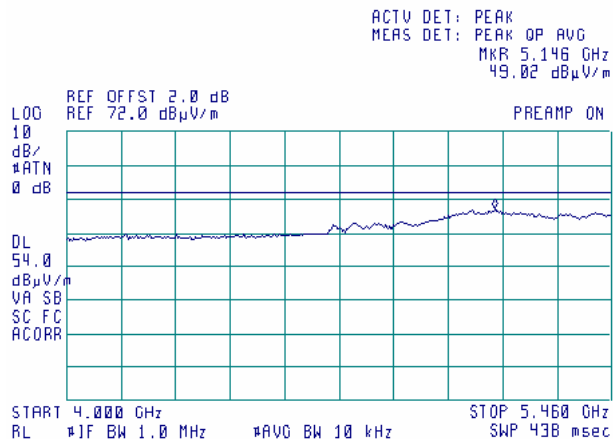
Plot 7.3.19 Radiated emission measurements from 4.0 to 5.46 GHz at the first mid carrier frequency

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



Plot 7.3.20 Radiated emission measurements from 4.0 to 5.46 GHz at the first mid carrier frequency

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





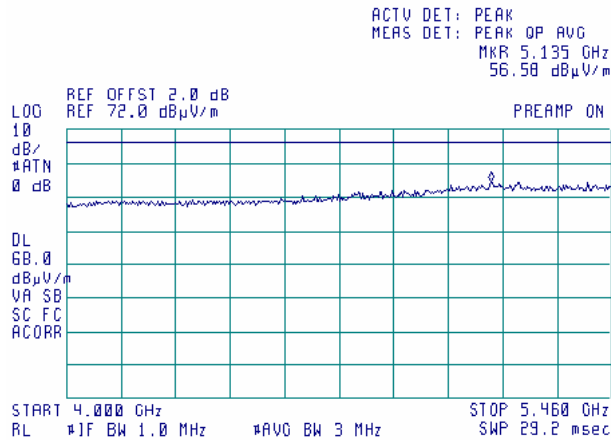


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

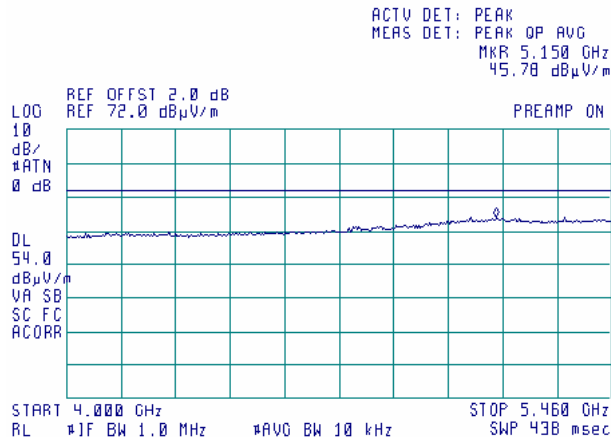
Plot 7.3.21 Radiated emission measurements from 4.0 to 5.46 GHz at the second mid carrier frequency

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



Plot 7.3.22 Radiated emission measurements from 4.0 to 5.46 GHz at the second mid carrier frequency

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



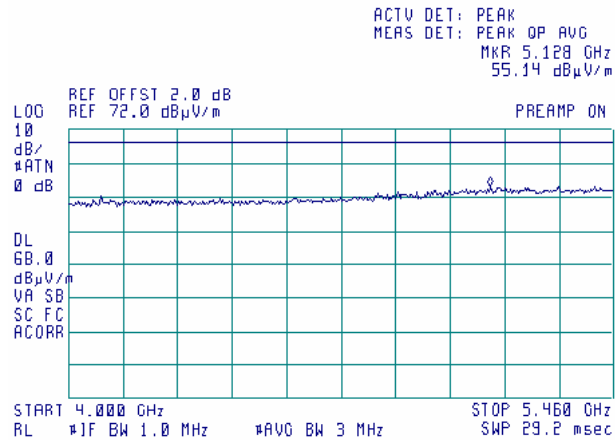


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

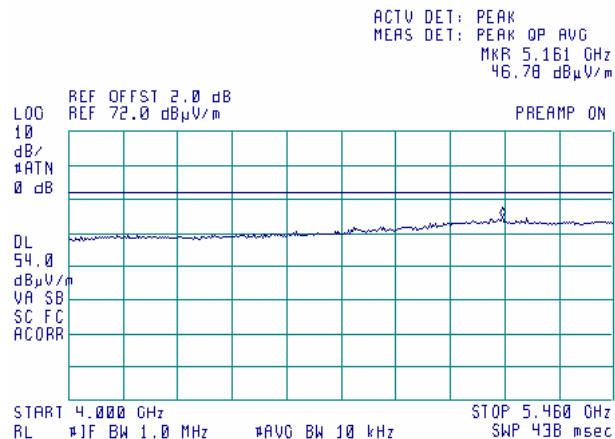
Plot 7.3.23 Radiated emission measurements from 4.0 to 5.46 GHz at the high carrier frequency

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



Plot 7.3.24 Radiated emission measurements from 4.0 to 5.46 GHz at the high carrier frequency

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



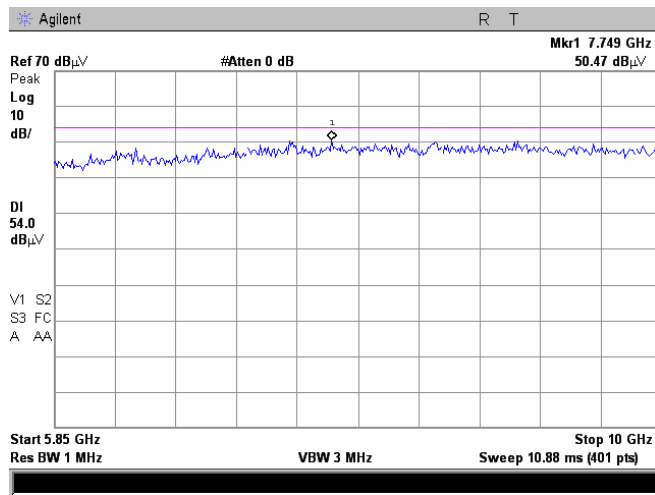


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

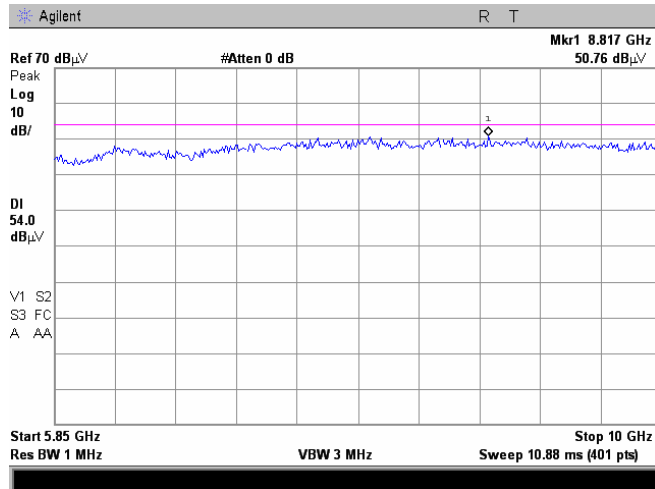
Plot 7.3.25 Radiated emission measurements from 5.85 to 10 GHz at the low carrier frequency

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



Plot 7.3.26 Radiated emission measurements from 5.85 to 10 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



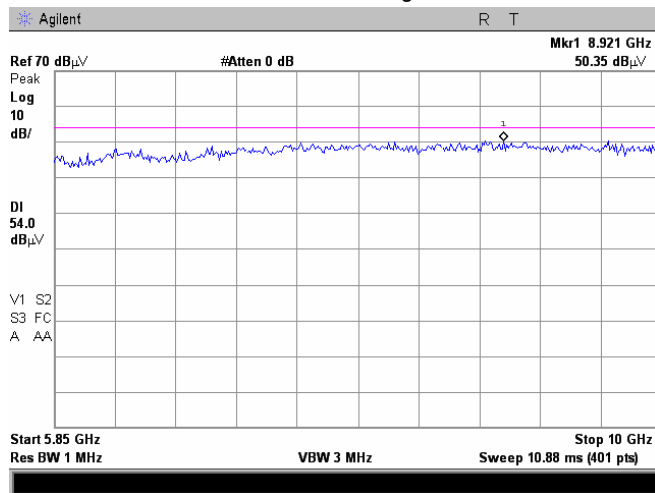


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

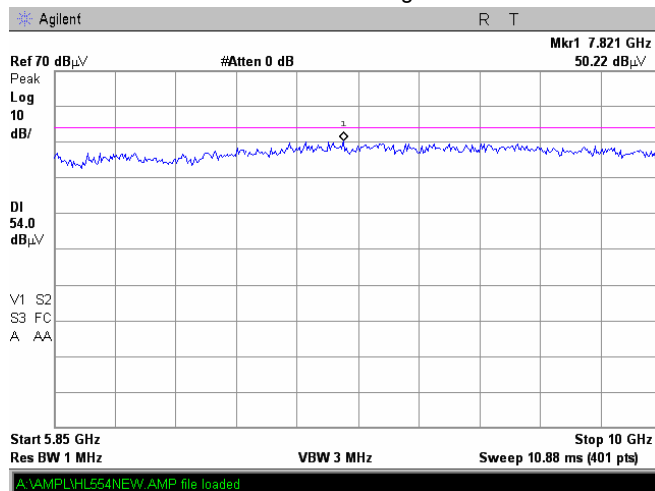
Plot 7.3.27 Radiated emission measurements from 5.85 to 10 GHz at the second mid carrier frequency

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 10 GHz at the high carrier frequency

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



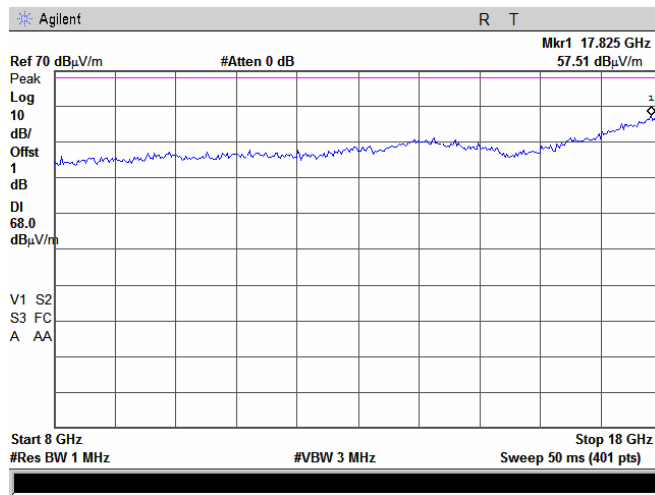


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

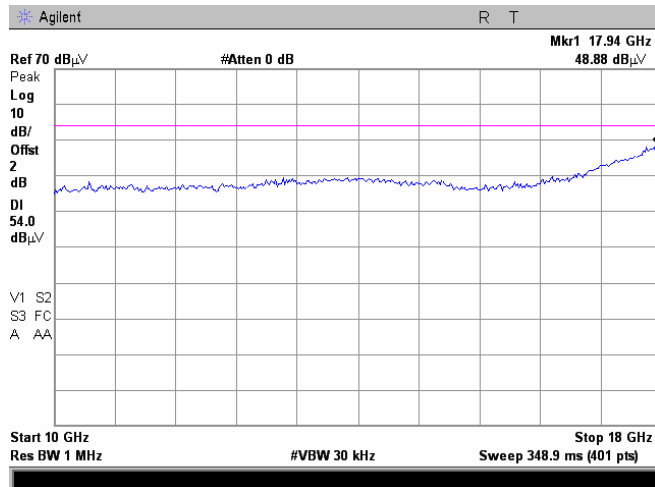
Plot 7.3.29 Radiated emission measurements from 10 to 18 GHz at the low carrier frequency

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



Plot 7.3.30 Radiated emission measurements from 10 to 18 GHz at the low carrier frequency

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



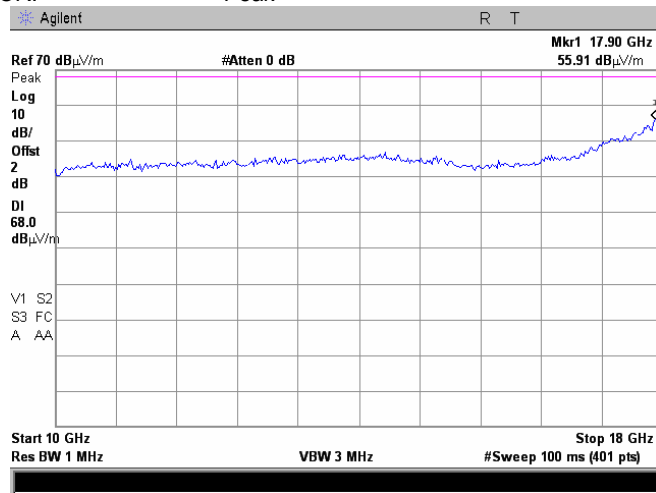


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

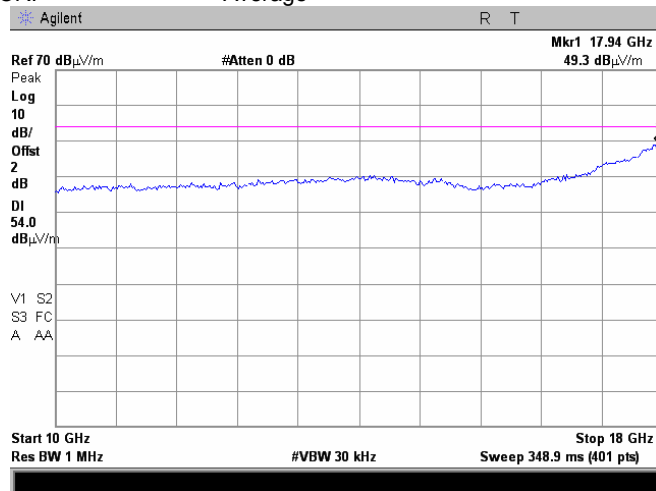
Plot 7.3.31 Radiated emission measurements from 10 to 18 GHz at the first mid carrier frequency

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



Plot 7.3.32 Radiated emission measurements from 10 to 18 GHz at the first mid carrier frequency

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



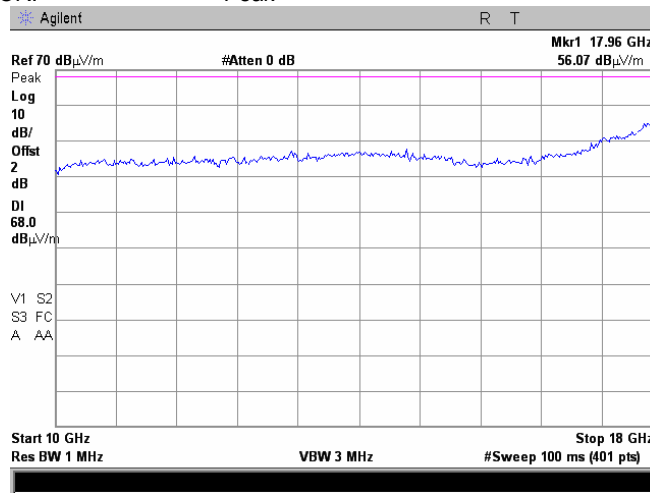


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

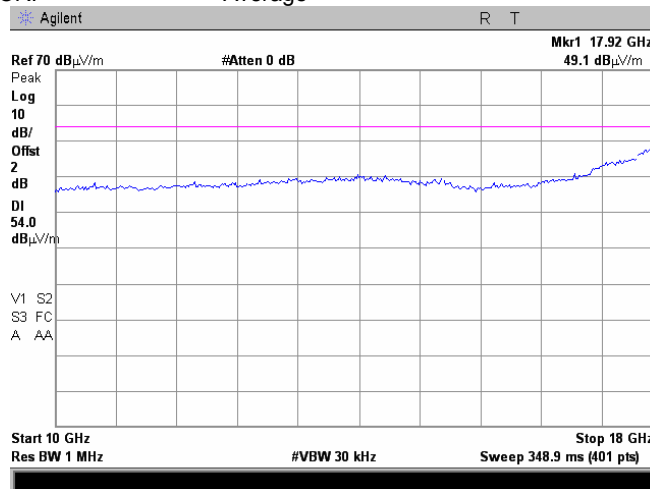
Plot 7.3.33 Radiated emission measurements from 10 to 18 GHz at the second mid carrier frequency

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



Plot 7.3.34 Radiated emission measurements from 10 to 18 GHz at the second mid carrier frequency

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



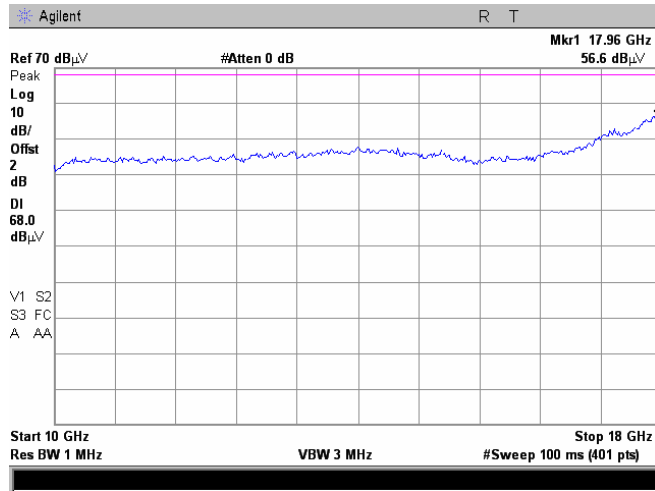


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

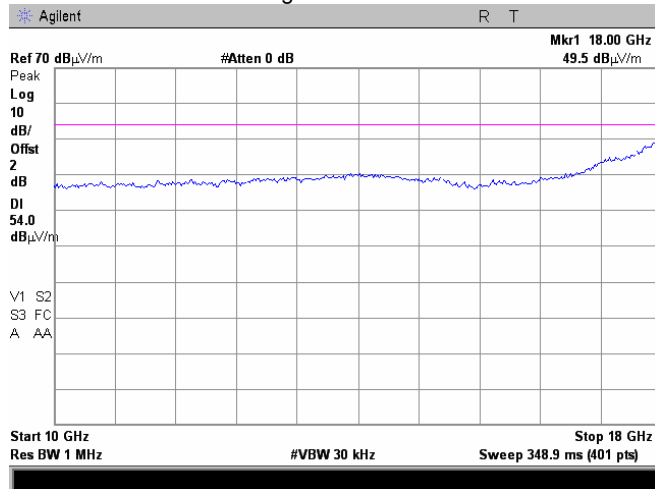
Plot 7.3.35 Radiated emission measurements from 10 to 18 GHz at the high carrier frequency

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





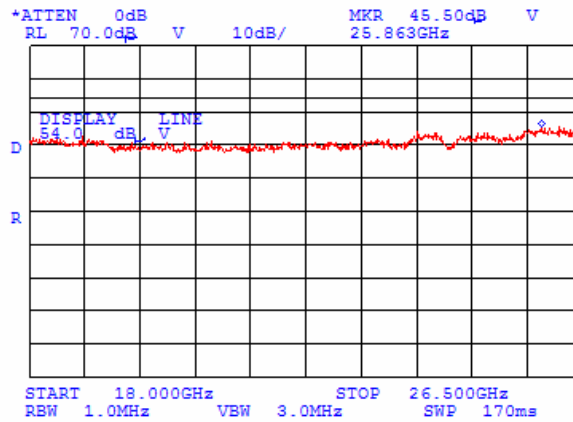


HERMON LABORATORIES

<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> 6/22/2008	
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa
<b>Relative Humidity:</b> 58 %	
<b>Power Supply:</b> 120 VAC	
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain	

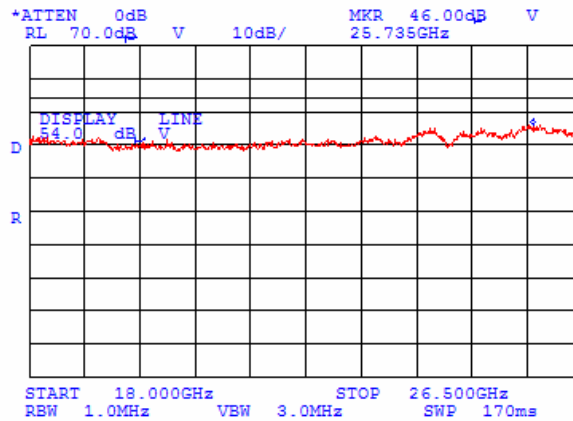
Plot 7.3.37 Radiated emission measurements from 18 to 26.5 GHz at the low carrier frequency

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



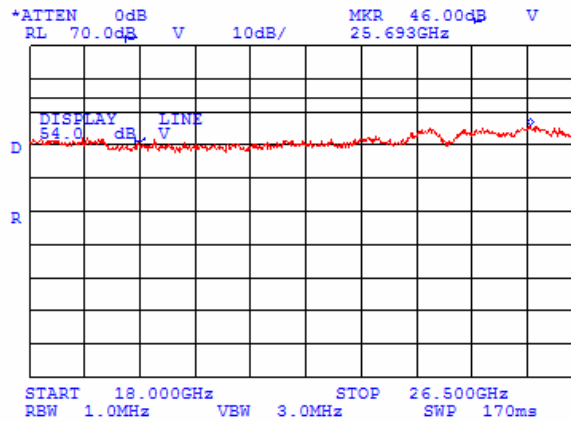


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

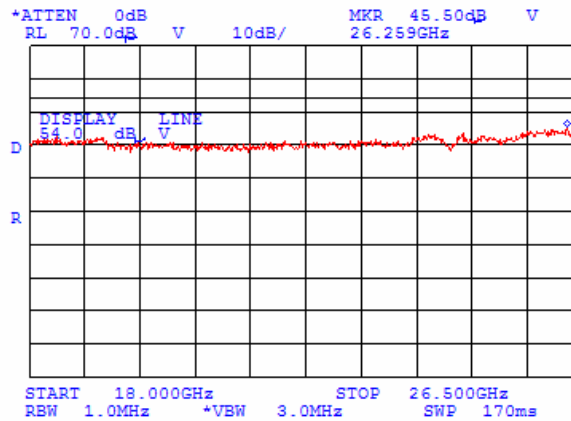
Plot 7.3.39 Radiated emission measurements from 18 to 26.5 GHz at the second mid carrier frequency (5485MHz)

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 (5485MHz)

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



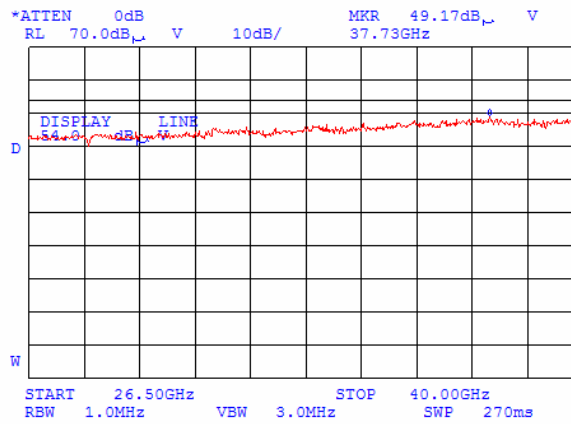


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

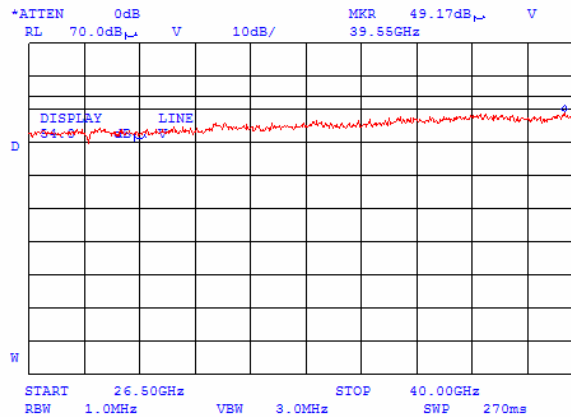
Plot 7.3.41 Radiated emission measurements from 26.5 to 40 GHz at the low carrier frequency

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



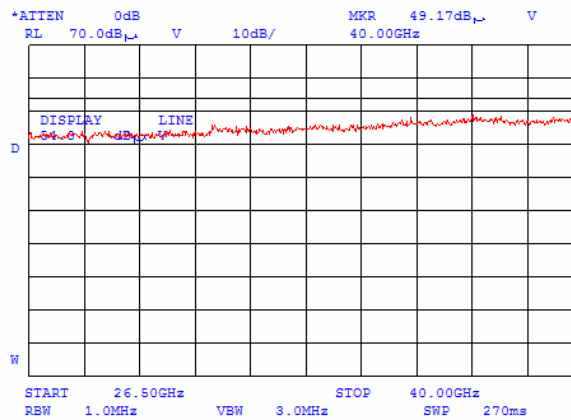


HERMON LABORATORIES

<b>Test specification:</b>		<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

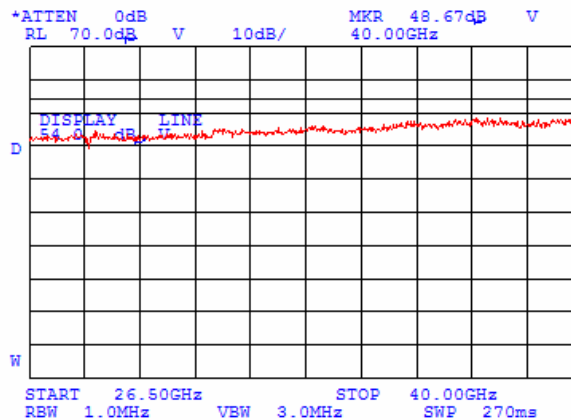
Plot 7.3.43 Radiated emission measurements from 26.5 to 40 GHz at the second mid carrier frequency

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 (5475MHz)

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>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

**Table 7.3.6 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 64QAM  
 BIT RATE: 32.5 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)

Frequency, MHz	Peak, dB(µV/m)	Quasi-peak dB(µV/m)			Antenna polariz.	Antenna height, m	Turntable position**, degrees	Verdict
		Measured emission, dB(µV/m)	Limit, dB(µV/m)	Margin, dB*				
Low channel (5490 MHz)								Pass
800.0	36.90	34.00	46.00	-12.00	Vertical	1.6	0	
892.0	39.70	37.20	46.00	-8.80	Vertical	1.4	120	
933.3	39.50	37.50	46.00	-8.50	Vertical	1.2	120	
First mid channel (5580 MHz)								
800.0	37.30	34.10	46.00	-11.90	Vertical	1.6	0	
892.0	39.90	37.10	46.00	-8.90	Vertical	1.4	120	
933.3	39.30	37.60	46.00	-8.40	Vertical	1.2	120	
Second mid channel (5670 MHz)								
800.0	37.50	34.00	46.00	-12.00	Vertical	1.6	0	
892.0	39.50	36.90	46.00	-9.10	Vertical	1.4	120	
933.3	39.40	37.50	46.00	-8.50	Vertical	1.2	120	
High channel (5705 MHz)								
800.0	37.90	34.00	46.00	-12.00	Vertical	1.6	0	
892.0	40.30	36.90	46.00	-9.10	Vertical	1.4	120	
933.3	39.30	37.50	46.00	-8.50	Vertical	1.2	120	

\*- 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 0589	HL 0604	HL 1425	HL 1556	HL 1947	HL 1984
HL 2009	HL 2909						

Full description is given in Appendix A.



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>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

**Table 7.3.7 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, 64QAM  
 BIT RATE: 32.5 Mbps  
 DUTY CYCLE: 100 %  
 TRANSMITTER OUTPUT POWER: Maximum  
 RESOLUTION BANDWIDTH: 1000 kHz  
 VIDEO BANDWIDTH: > Resolution bandwidth  
 TEST ANTENNA TYPE: Double ridged guide

Frequency, MHz	Peak, dB(μV/m)			Average dB(μV/m)			Ant. polarization	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*					
Low channel (5490 MHz)											
1025.3	46.50	74.00	-27.50	40.65	54.00	-13.35	Vertical	1.0	0	Pass	
1066.6	54.75	74.00	-19.25	47.66	54.00	-6.34	Vertical	1.0	0		
1200.0	57.20	74.00	-16.80	53.33	54.00	-0.67	Vertical	1.0	0		
1466.6	41.04	74.00	-32.96	31.61	54.00	-22.39	Vertical	1.0	0		
5149.0	54.31	74.00	-19.69	41.50	54.00	-12.50	Vertical	1.0	0		
First mid channel (5580 MHz)											
1066.6	46.35	74.00	-27.65	40.55	54.00	-13.45	Vertical	1.0	0		
1200.0	56.90	74.00	-17.10	53.17	54.00	-0.83	Vertical	1.0	0		
Second mid channel (5670 MHz)											
1066.6	46.20	74.00	-27.80	40.45	54.00	-13.55	Vertical	1.0	0		
1200.0	57.30	74.00	-16.70	53.15	54.00	-0.85	Vertical	1.0	0		
High channel (5705 MHz)											
1066.6	46.40	74.00	-27.60	40.50	54.00	-13.50	Vertical	1.0	0		
1200.0	57.49	74.00	-16.51	53.31	54.00	-0.69	Vertical	1.0	0		
5149.0	54.04	74.00	-19.96	41.04	54.00	-12.96	Vertical	1.0	0		

\*- 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 0589	HL 0604	HL 1425	HL 1556	HL 1947	HL 1984
HL 2009	HL 2909						

Full description is given in Appendix A.



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>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

Table 7.3.8 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	

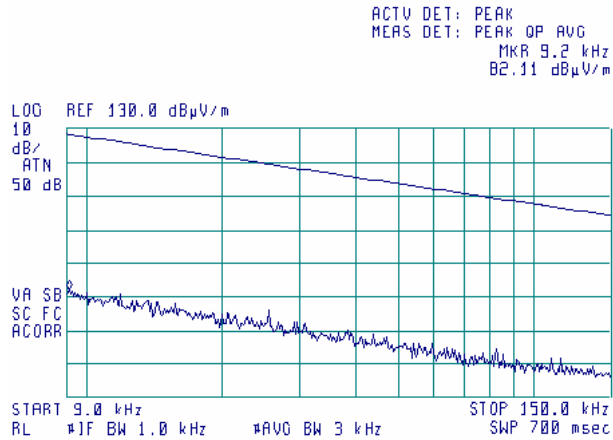


HERMON LABORATORIES

<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>	PASS
<b>Date:</b>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

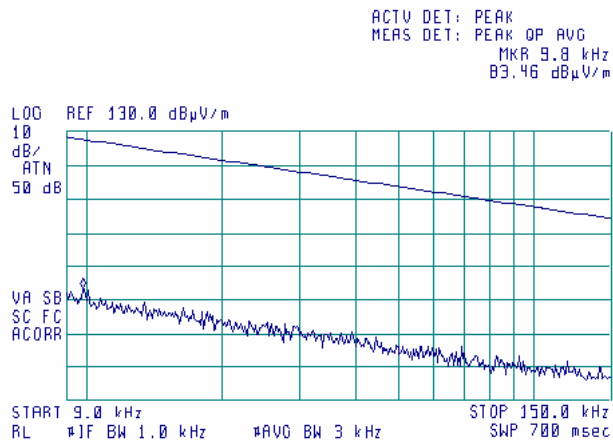
**Plot 7.3.45 Radiated emission measurements from 9 to 150 kHz at the low carrier frequency**

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



**Plot 7.3.46 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





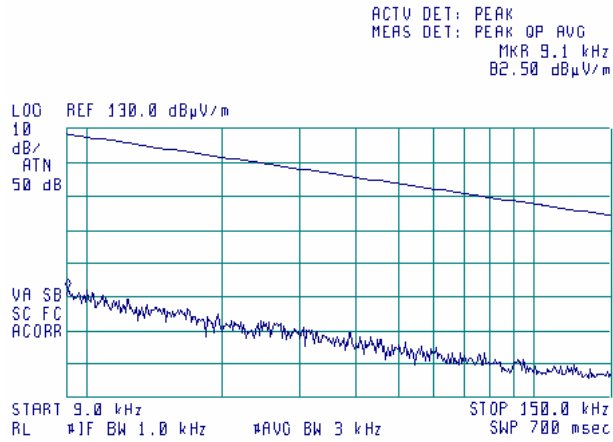


HERMON LABORATORIES

<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>	PASS
<b>Date:</b>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

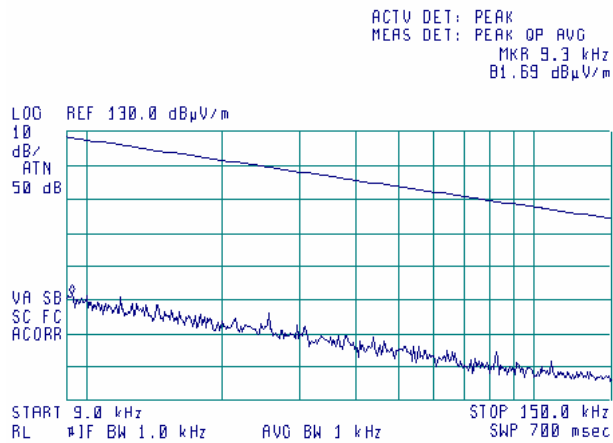
Plot 7.3.47 Radiated emission measurements from 9 to 150 kHz at the second mid carrier frequency

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



Plot 7.3.48 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



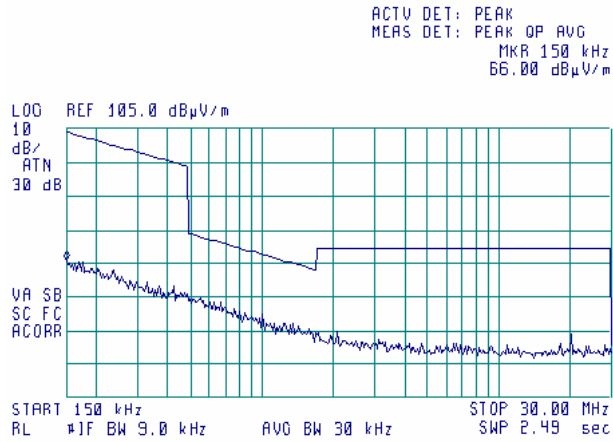


HERMON LABORATORIES

<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>	PASS
<b>Date:</b>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

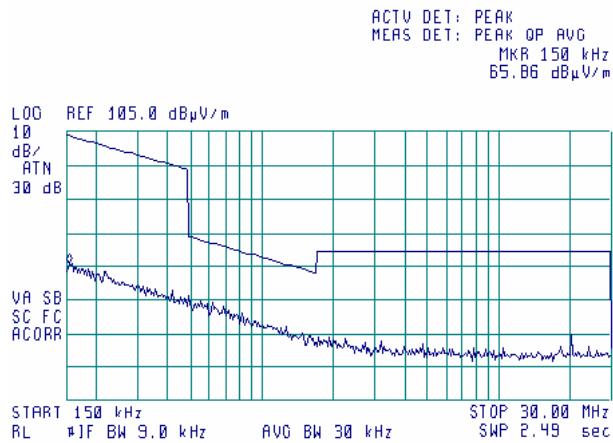
**Plot 7.3.49 Radiated emission measurements from 0.15 MHz to 30 MHz at the low carrier frequency**

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



**Plot 7.3.50 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



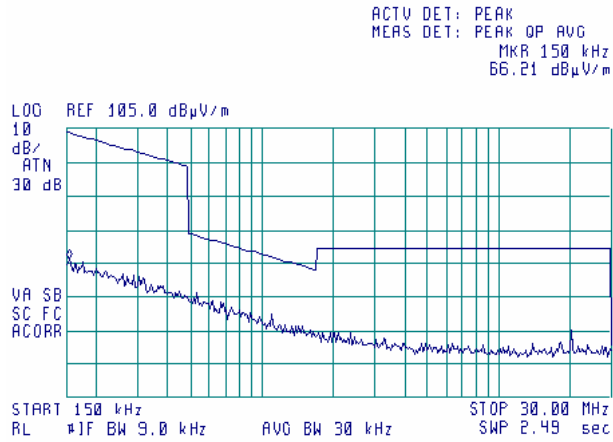


HERMON LABORATORIES

<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>	PASS
<b>Date:</b>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

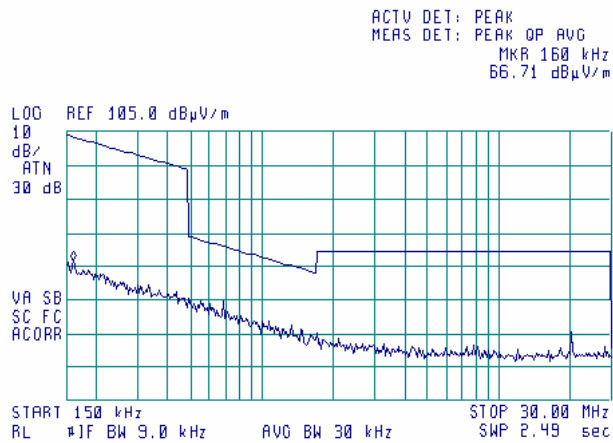
Plot 7.3.51 Radiated emission measurements from 0.15 MHz to 30 MHz at the second mid carrier frequency

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



Plot 7.3.52 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



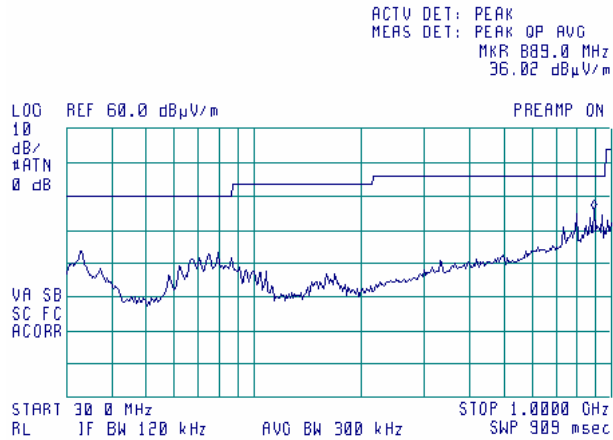


HERMON LABORATORIES

<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>	PASS
<b>Date:</b>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

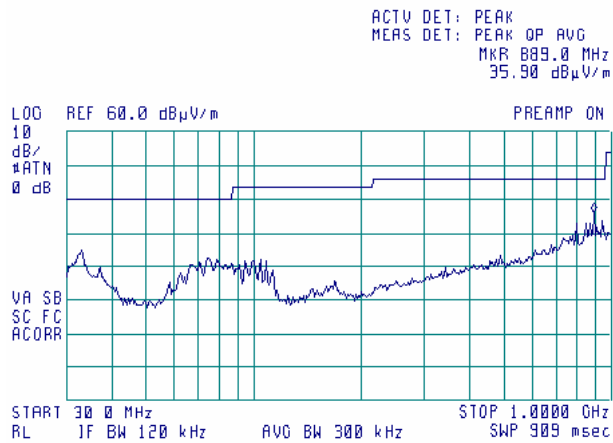
Plot 7.3.53 Radiated emission measurements from 30 MHz to 1000 MHz at the low carrier frequency

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



Plot 7.3.54 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



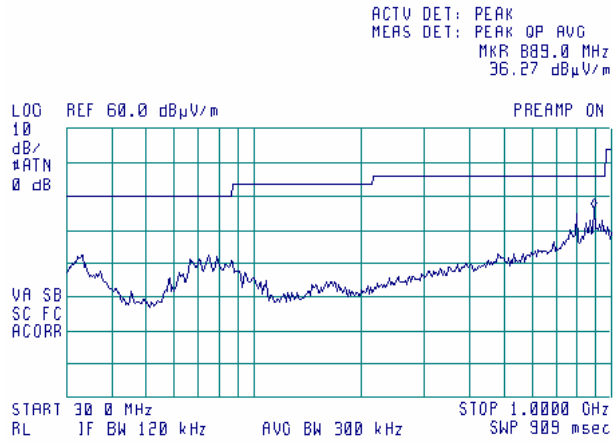


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

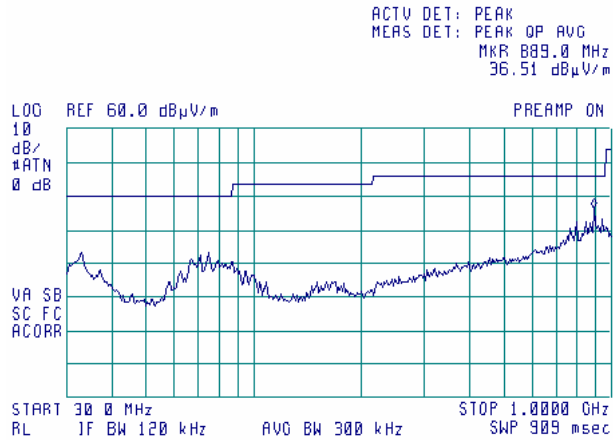
Plot 7.3.55 Radiated emission measurements from 30 MHz to 1000 MHz at the second mid carrier frequency

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



Plot 7.3.56 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



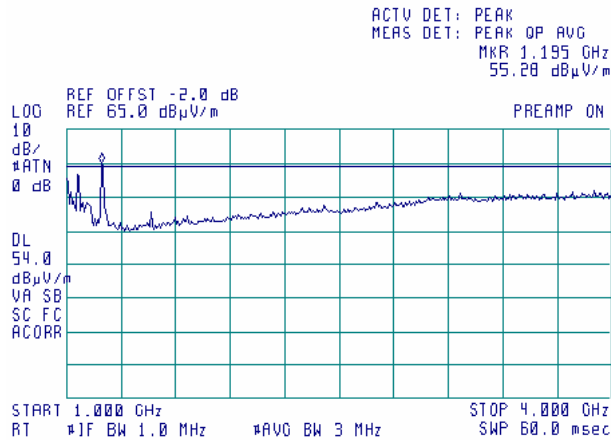


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

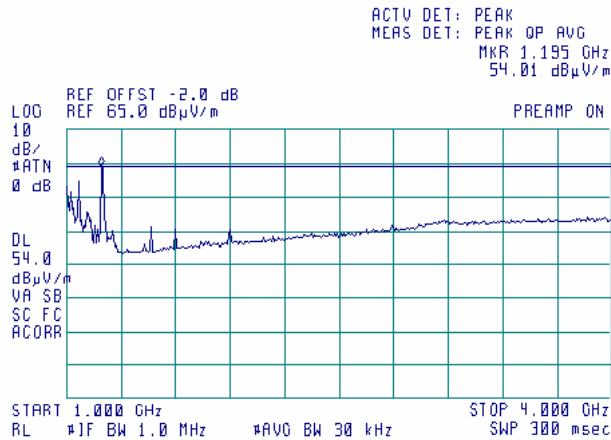
Plot 7.3.57 Radiated emission measurements from 1.0 to 4.0 GHz at the low carrier frequency

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



Plot 7.3.58 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: Average



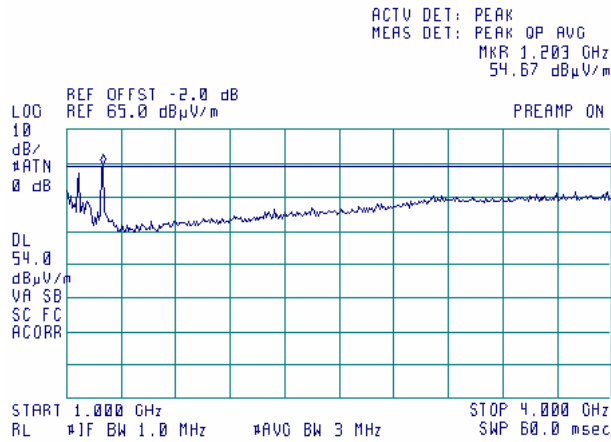


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

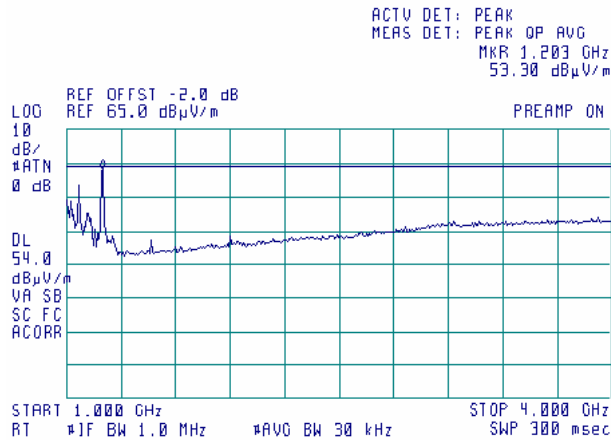
Plot 7.3.59 Radiated emission measurements from 1.0 to 4.0 GHz at the first mid carrier frequency

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



Plot 7.3.60 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: Average



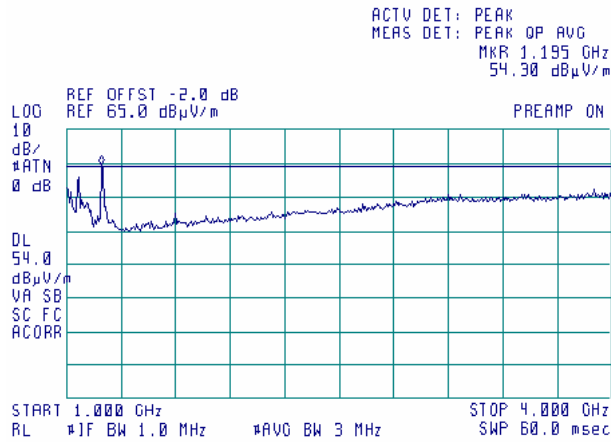


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

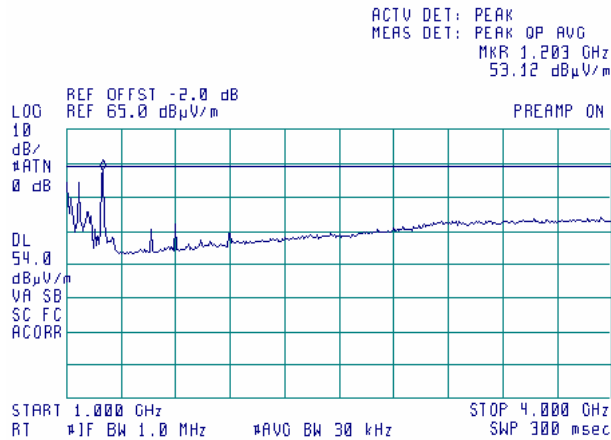
Plot 7.3.61 Radiated emission measurements from 1.0 to 4.0 GHz at the second mid carrier frequency

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



Plot 7.3.62 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: Average





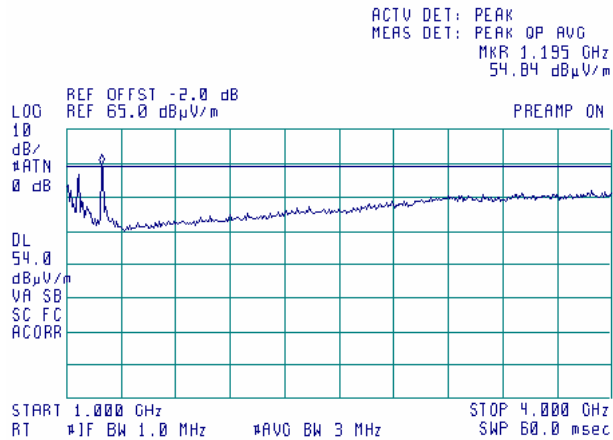


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

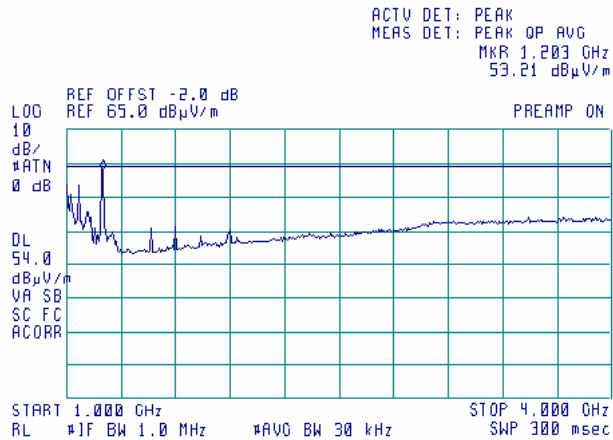
Plot 7.3.63 Radiated emission measurements from 1.0 to 4.0 GHz at the high carrier frequency

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



Plot 7.3.64 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: Average



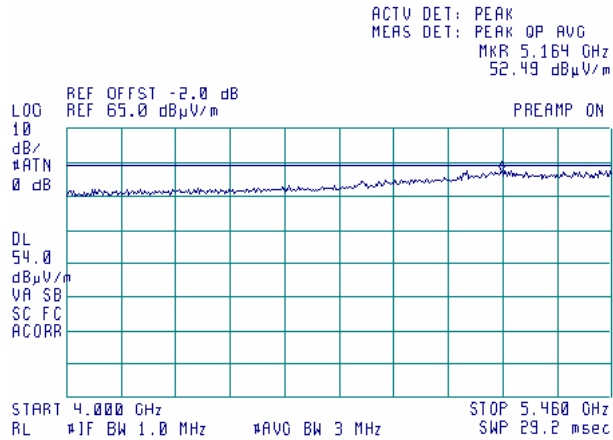


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

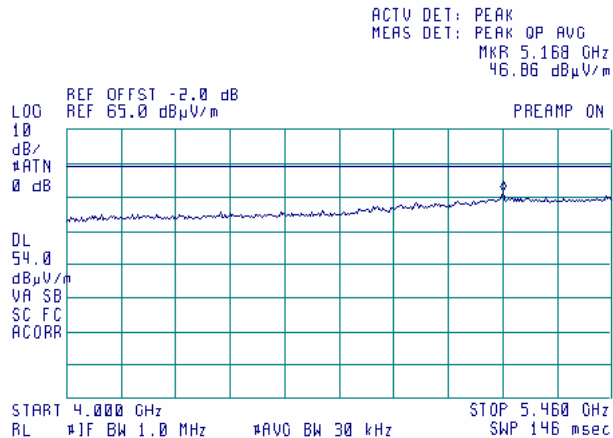
Plot 7.3.65 Radiated emission measurements from 4.0 to 5.46 GHz at the low carrier frequency

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



Plot 7.3.66 Radiated emission measurements from 4.0 to 5.46 GHz at the low carrier frequency

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



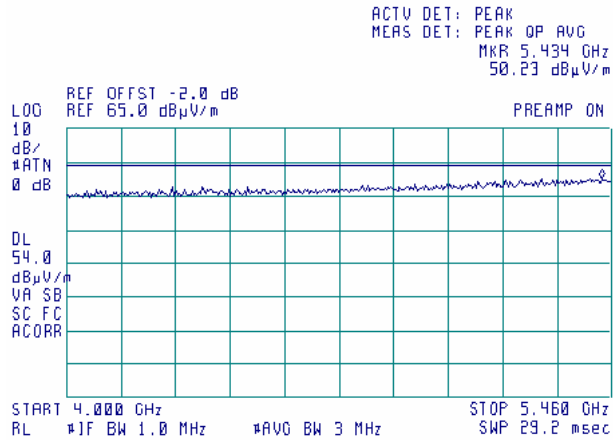


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

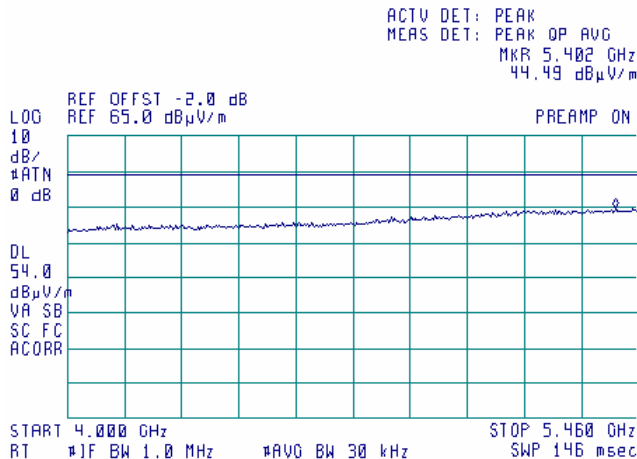
Plot 7.3.67 Radiated emission measurements from 4.0 to 5.46 GHz at the first mid carrier frequency

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



Plot 7.3.68 Radiated emission measurements from 4.0 to 5.46 GHz at the first mid carrier frequency

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



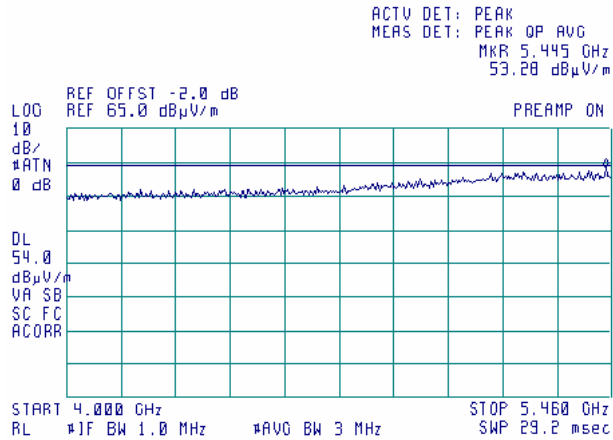


HERMON LABORATORIES

<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>	PASS
<b>Date:</b>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

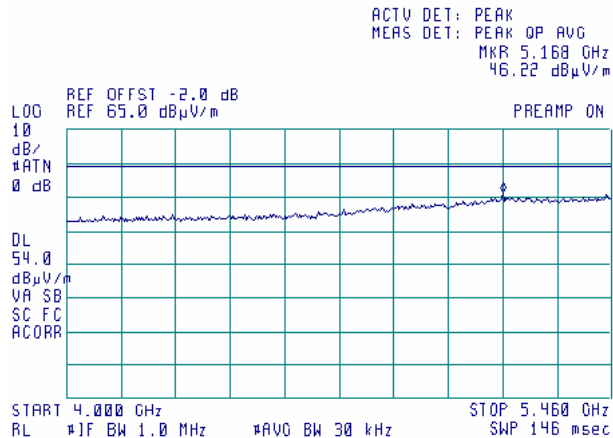
Plot 7.3.69 Radiated emission measurements from 4.0 to 5.46 GHz at the second mid carrier frequency

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



Plot 7.3.70 Radiated emission measurements from 4.0 to 5.46 GHz at the second mid carrier frequency

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



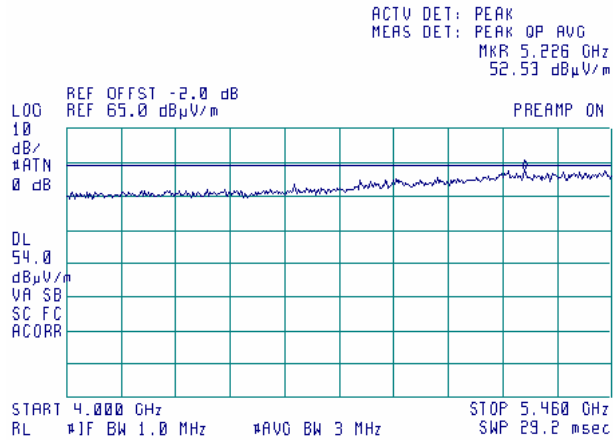


HERMON LABORATORIES

<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>	PASS
<b>Date:</b>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

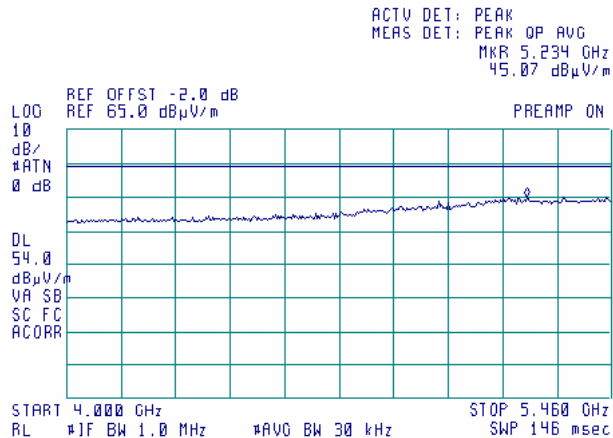
Plot 7.3.71 Radiated emission measurements from 4.0 to 5.46 GHz at the high carrier frequency

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



Plot 7.3.72 Radiated emission measurements from 4.0 to 5.46 GHz at the high carrier frequency

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



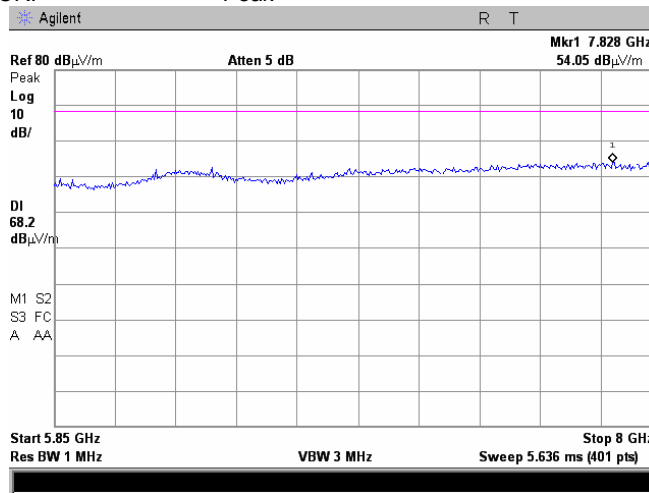


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

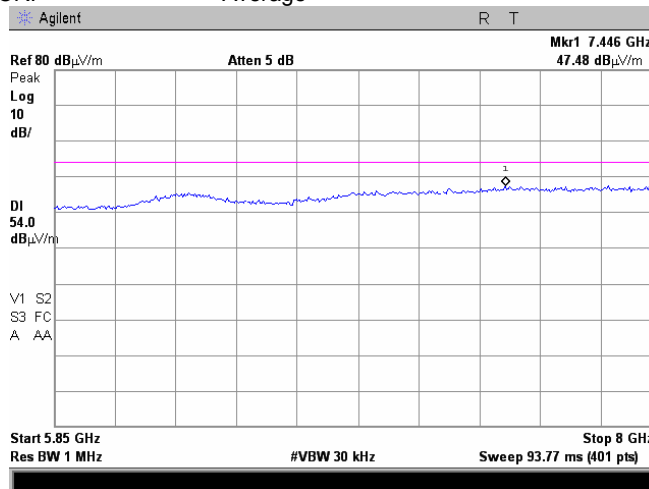
Plot 7.3.73 Radiated emission measurements from 5.85 to 8.0 GHz at the low carrier frequency

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



Plot 7.3.74 Radiated emission measurements from 5.85 to 8.0 GHz at the low carrier frequency

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



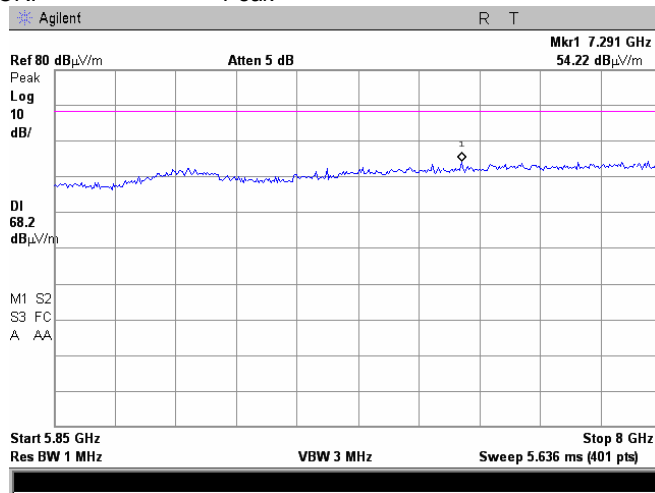


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

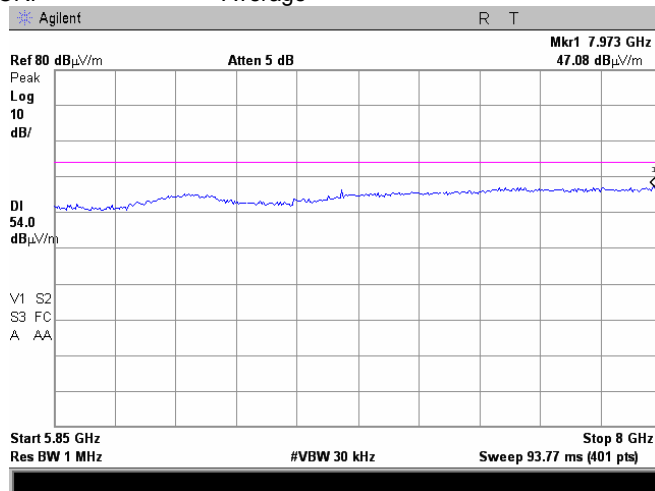
Plot 7.3.75 Radiated emission measurements from 5.85 to 8.0 GHz at the first mid carrier frequency

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



Plot 7.3.76 Radiated emission measurements from 5.85 to 8.0 GHz at the first mid carrier frequency

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



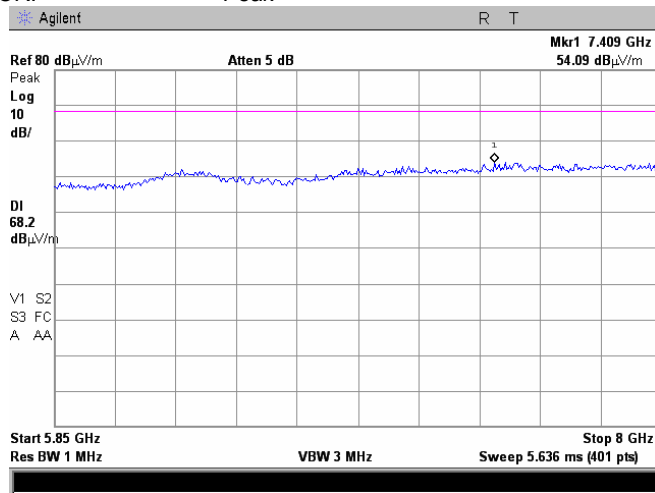


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

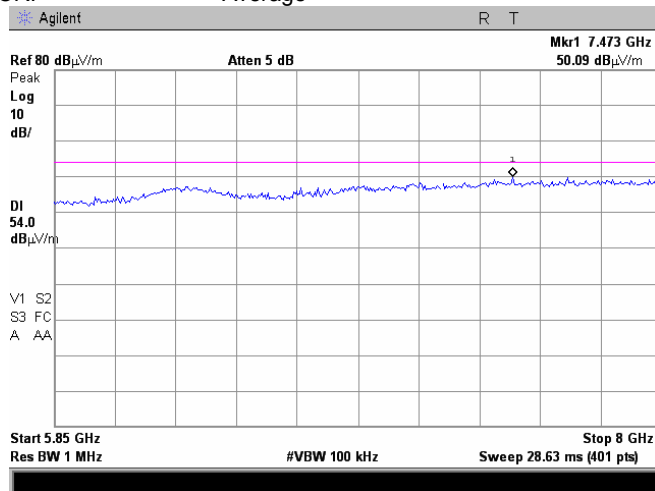
Plot 7.3.77 Radiated emission measurements from 5.85 to 8.0 GHz at the second mid carrier frequency

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



Plot 7.3.78 Radiated emission measurements from 5.85 to 8.0 GHz at the second mid carrier frequency

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





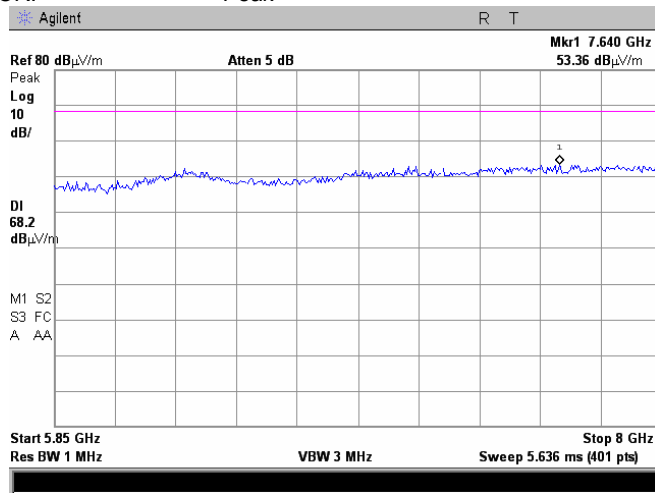


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

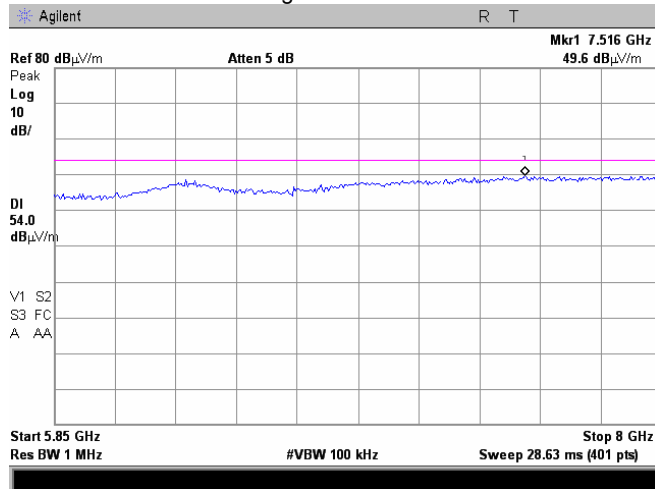
Plot 7.3.79 Radiated emission measurements from 5.85 to 8.0 GHz at the high carrier frequency

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



Plot 7.3.80 Radiated emission measurements from 5.85 to 8.0 GHz at the high carrier frequency

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



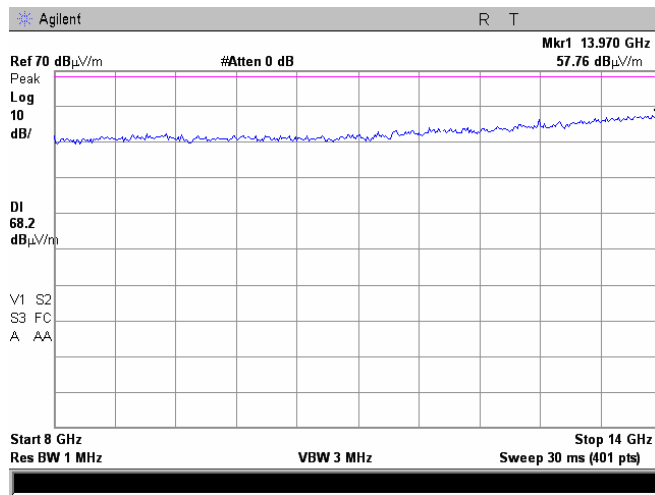


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

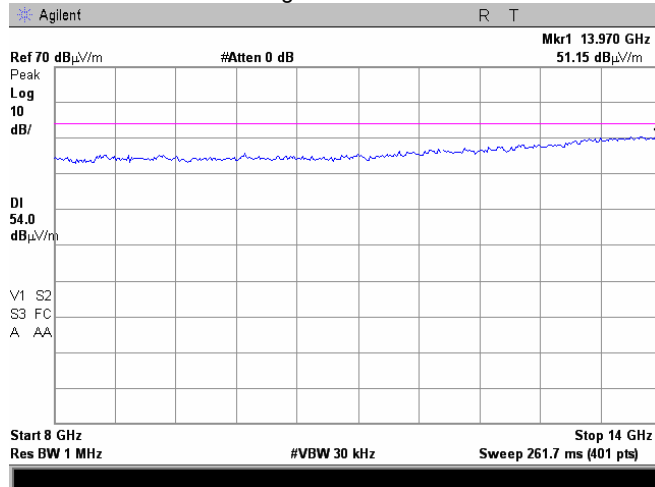
Plot 7.3.81 Radiated emission measurements from 8 to 14 GHz at the low carrier frequency

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



Plot 7.3.82 Radiated emission measurements from 8 to 14 GHz at the low carrier frequency

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



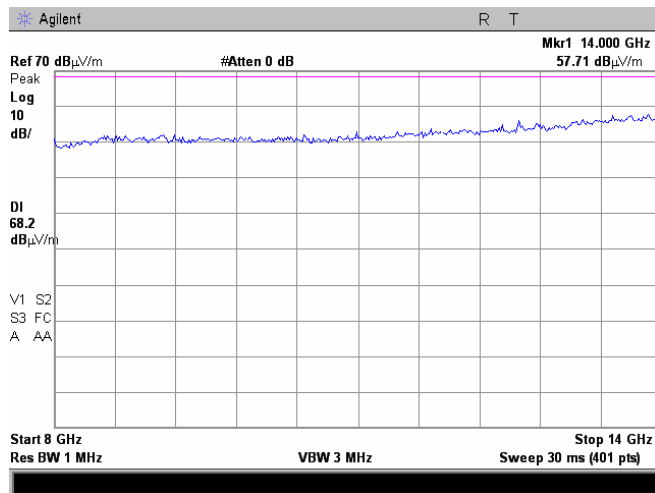


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

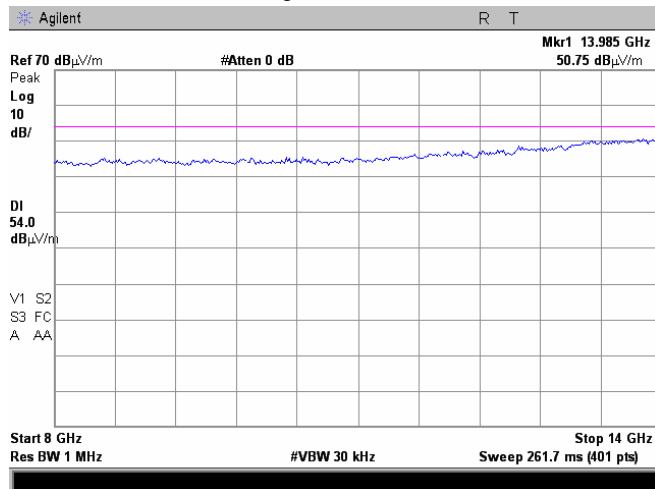
Plot 7.3.83 Radiated emission measurements from 8 to 14 GHz at the first mid carrier frequency

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



Plot 7.3.84 Radiated emission measurements from 8 to 14 GHz at the first mid carrier frequency

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



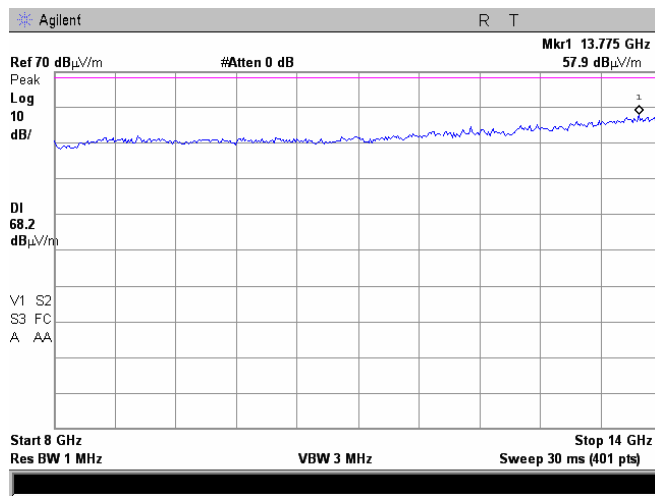


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

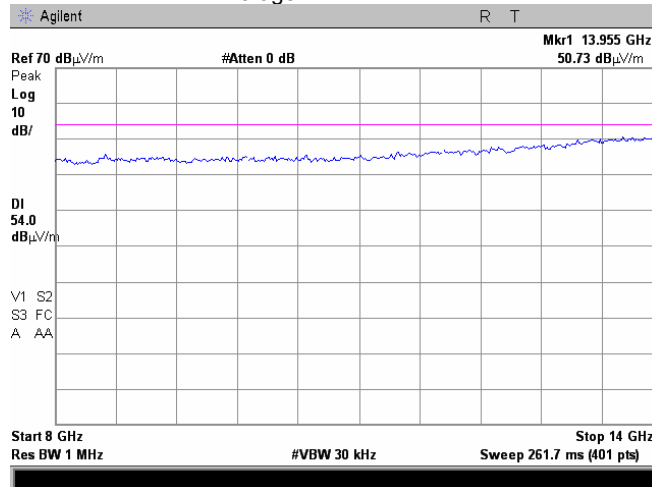
Plot 7.3.85 Radiated emission measurements from 8 to 14 GHz at the second mid carrier frequency

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



Plot 7.3.86 Radiated emission measurements from 8 to 14 GHz at the second mid carrier frequency

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



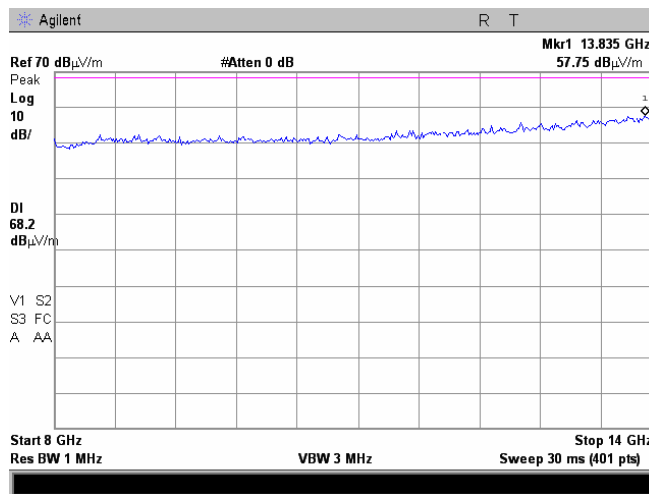


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

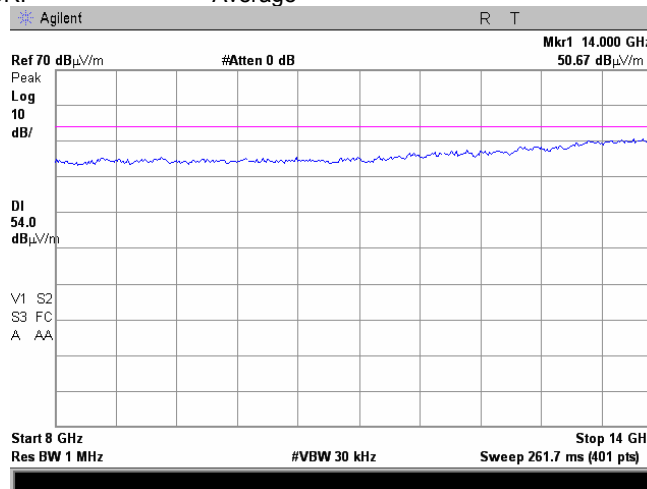
Plot 7.3.87 Radiated emission measurements from 8 to 14 GHz at the high carrier frequency

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



Plot 7.3.88 Radiated emission measurements from 8 to 14 GHz at the high carrier frequency

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

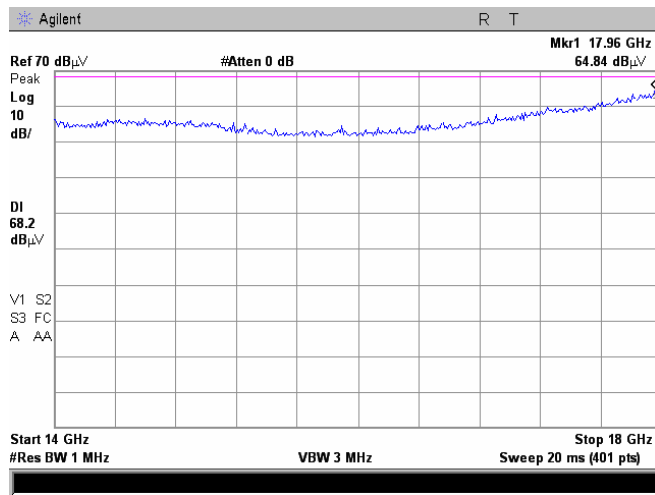




<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

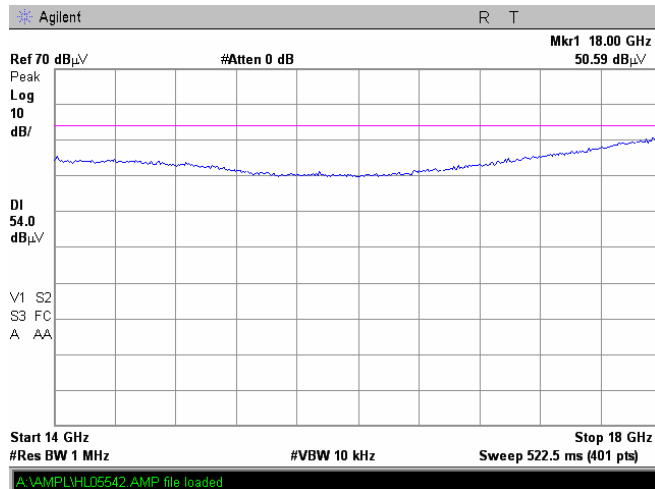
Plot 7.3.89 Radiated emission measurements from 14 to 18 GHz at the low carrier frequency

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



Plot 7.3.90 Radiated emission measurements from 14 to 18 GHz at the low carrier frequency

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



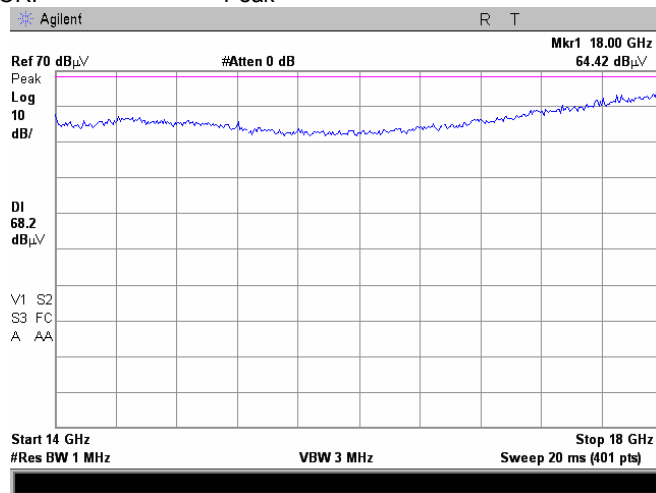


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<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

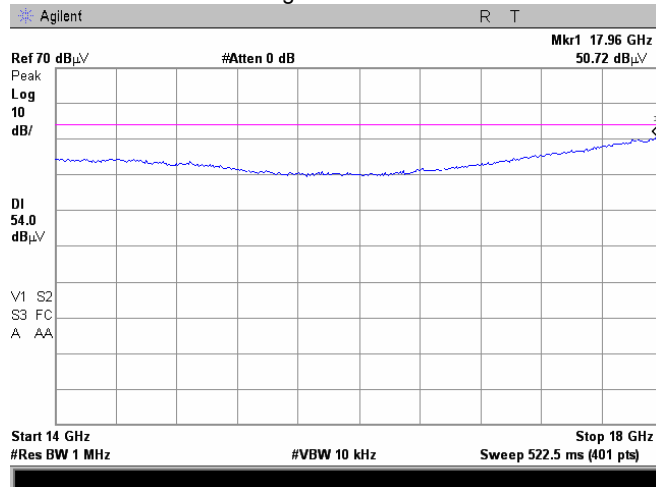
Plot 7.3.91 Radiated emission measurements from 14 to 18 GHz at the first mid carrier frequency

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



Plot 7.3.92 Radiated emission measurements from 14 to 18 GHz at the first mid carrier frequency

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



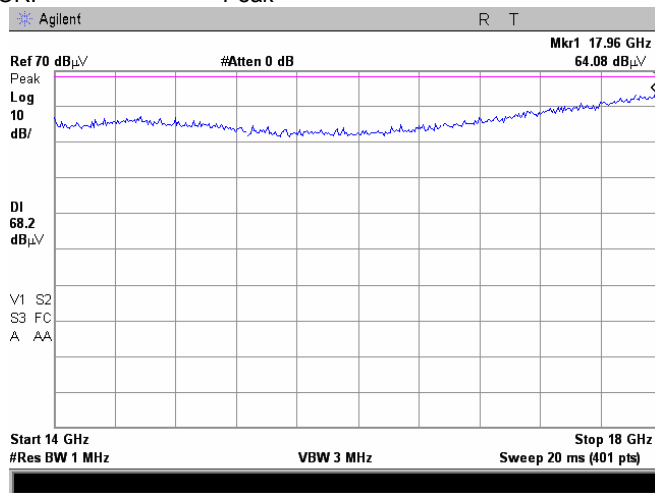


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

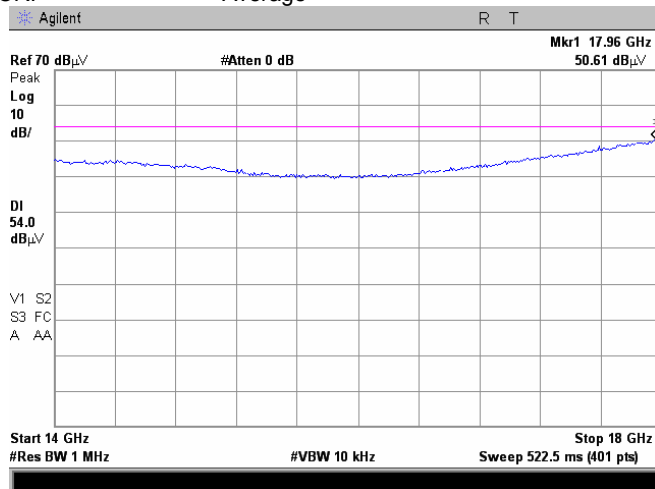
Plot 7.3.93 Radiated emission measurements from 14 to 18 GHz at the second mid carrier frequency

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



Plot 7.3.94 Radiated emission measurements from 14 to 18 GHz at the second mid carrier frequency

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





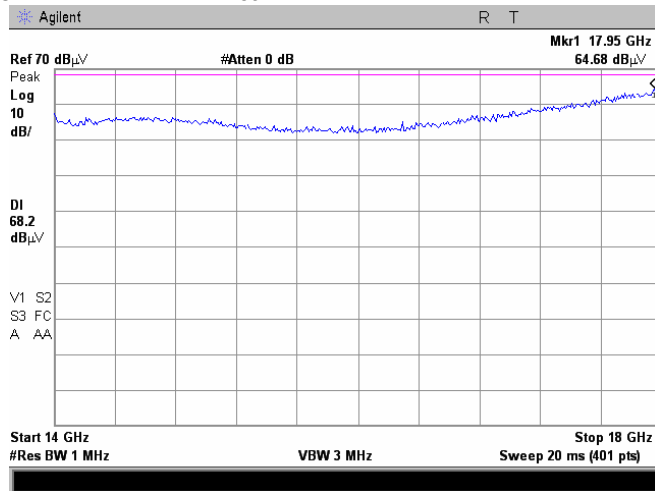


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

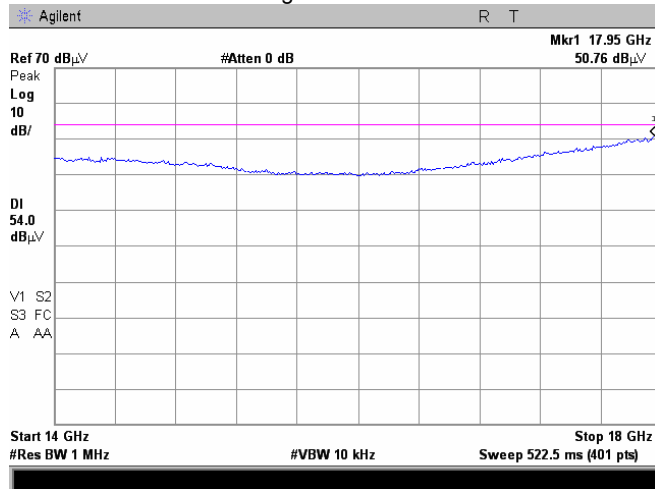
Plot 7.3.95 Radiated emission measurements from 14 to 18 GHz at the high carrier frequency

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



Plot 7.3.96 Radiated emission measurements from 14 to 18 GHz at the high carrier frequency

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



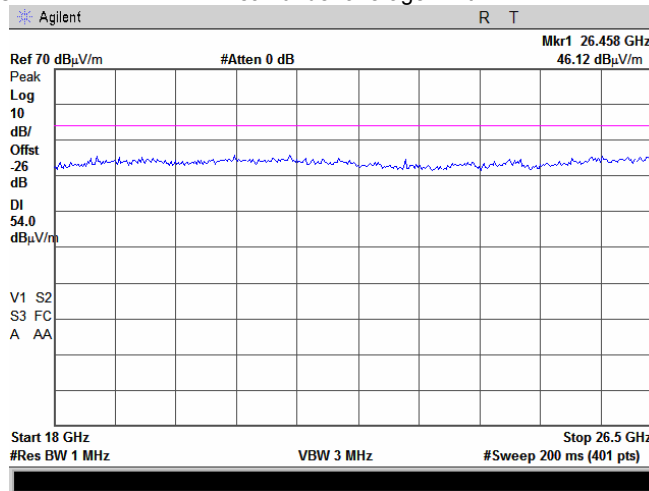


HERMON LABORATORIES

<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

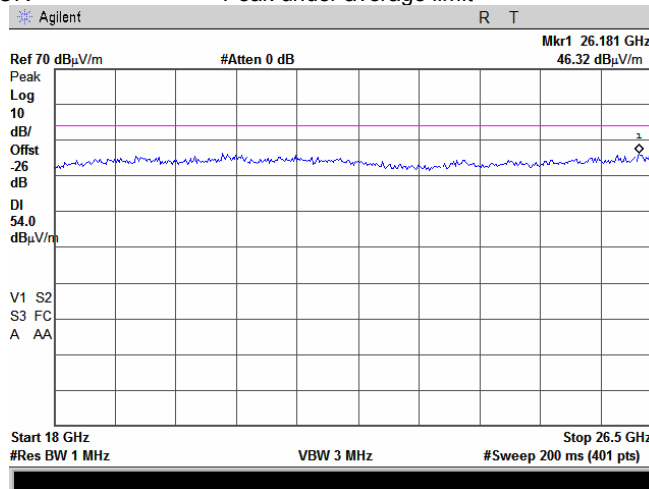
Plot 7.3.97 Radiated emission measurements from 18 to 26.5 GHz at the low carrier frequency

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



Plot 7.3.98 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



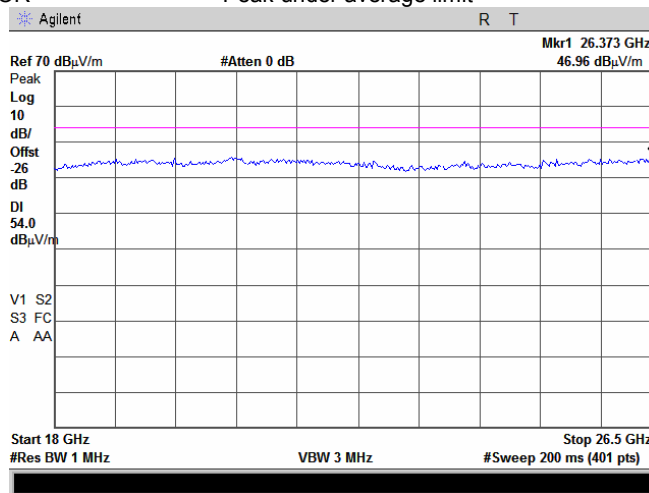


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

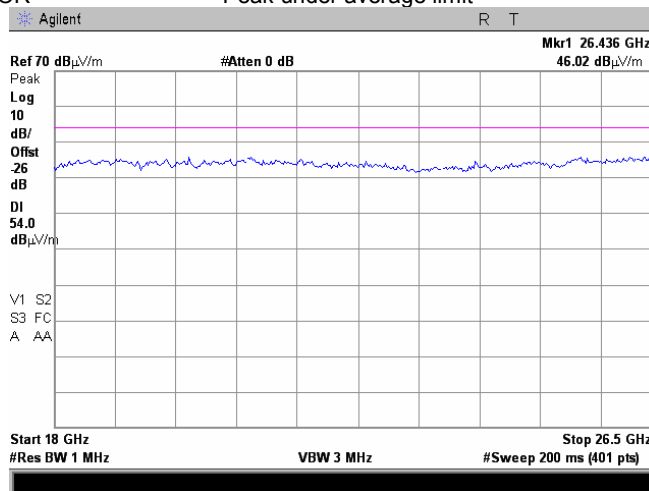
Plot 7.3.99 Radiated emission measurements from 18 to 26.5 GHz at the second mid carrier frequency (5485MHz)

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



. Plot 7.3.100 Radiated emission measurements from 18 to 26.5 GHz at the high carrier frequency (5485MHz)

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

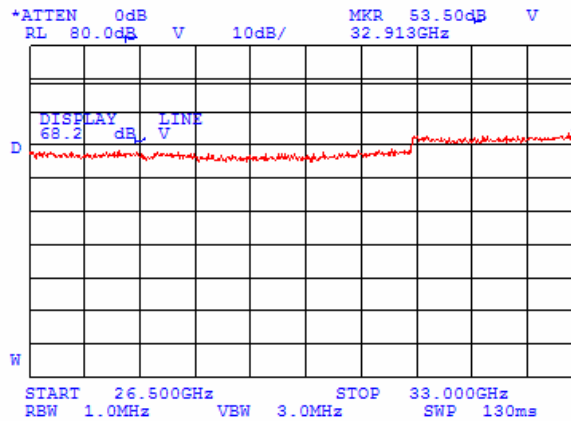




<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions</b>		
<b>Test procedure:</b>	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

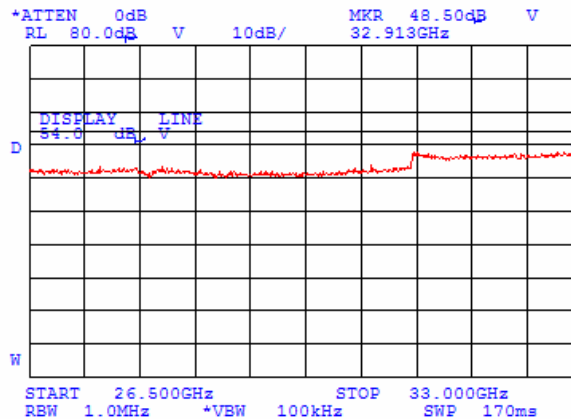
Plot 7.3.101 Radiated emission measurements from 26.5 to 33 GHz at the low carrier frequency

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



Plot 7.3.102 Radiated emission measurements from 26.5 to 33 GHz at the low carrier frequency

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



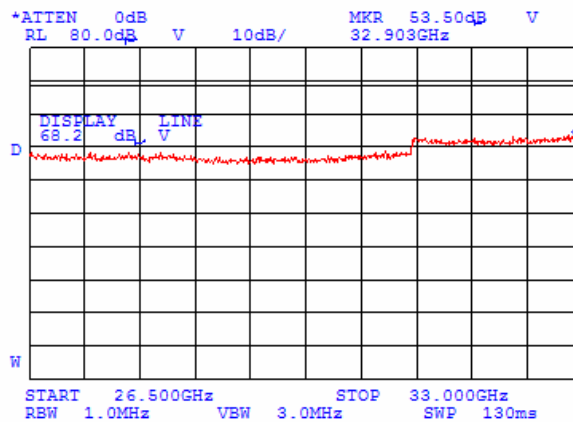


HERMON LABORATORIES

<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> PASS	
<b>Date:</b> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

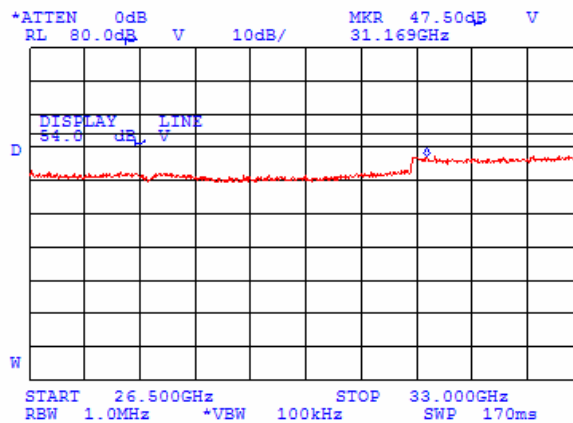
Plot 7.3.103 Radiated emission measurements from 26.5 to 33 GHz at the first mid carrier frequency

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



Plot 7.3.104 Radiated emission measurements from 26.5 to 33 GHz at the first mid carrier frequency

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



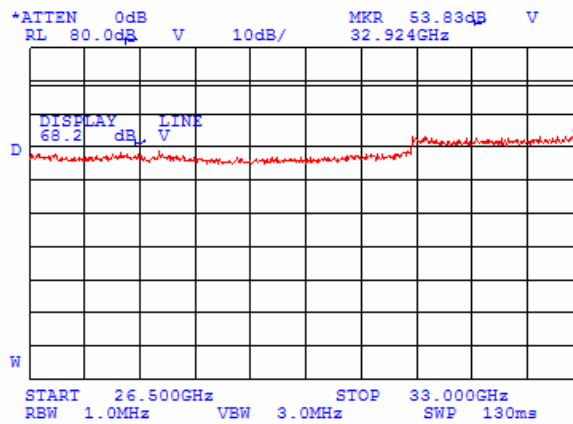


HERMON LABORATORIES

<b>Test specification:</b>		<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

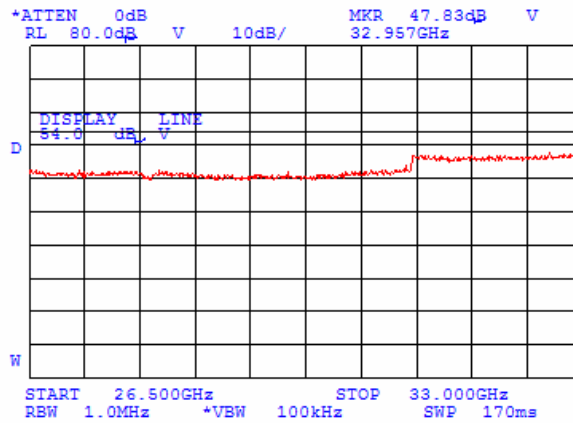
Plot 7.3.105 Radiated emission measurements from 26.5 to 33 GHz at the second mid carrier frequency

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



Plot 7.3.106 Radiated emission measurements from 26.5 to 33 GHz at the second mid carrier frequency

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



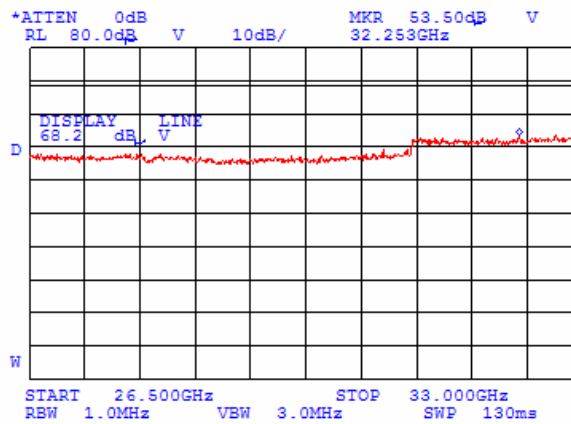


HERMON LABORATORIES

<b>Test specification:</b>		<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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

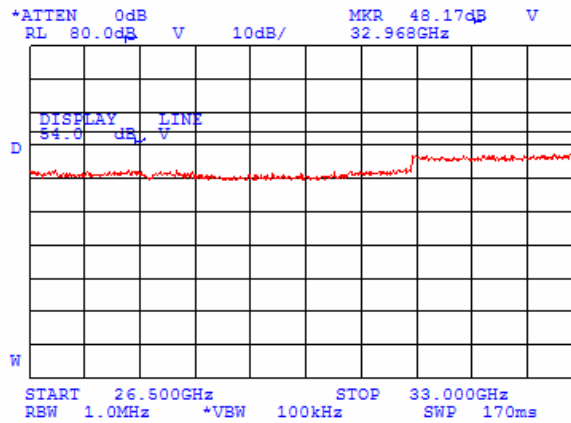
Plot 7.3.107 Radiated emission measurements from 26.5 to 33 GHz at the high carrier frequency

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



Plot 7.3.108 Radiated emission measurements from 26.5 to 33 GHz at the high carrier frequency

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



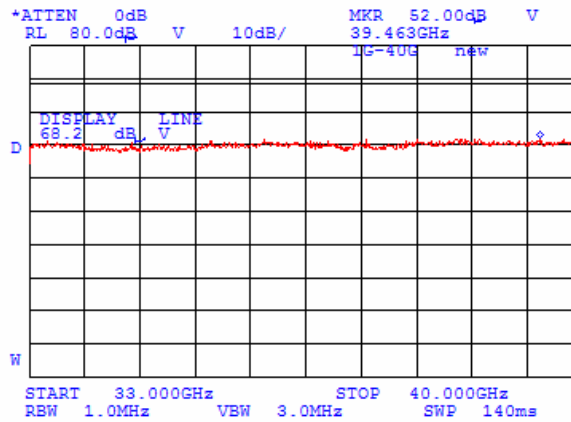


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

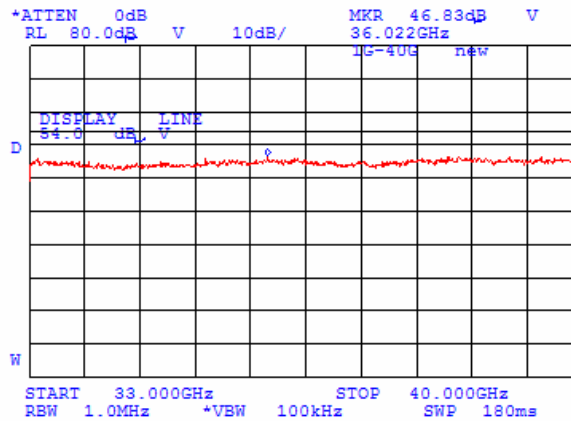
Plot 7.3.109 Radiated emission measurements from 33 to 40 GHz at the low carrier frequency

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



Plot 7.3.110 Radiated emission measurements from 33 to 40 GHz at the low carrier frequency

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





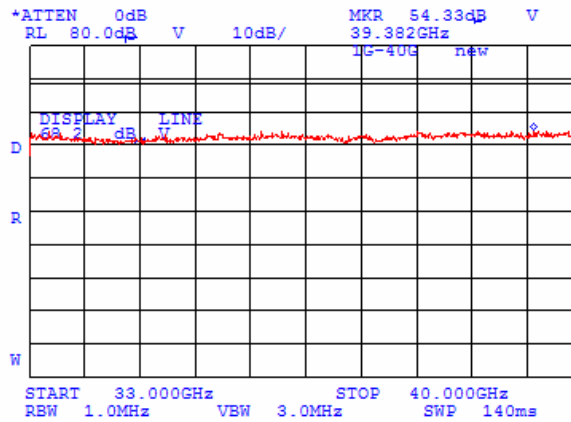


HERMON LABORATORIES

<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>	PASS
<b>Date:</b>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

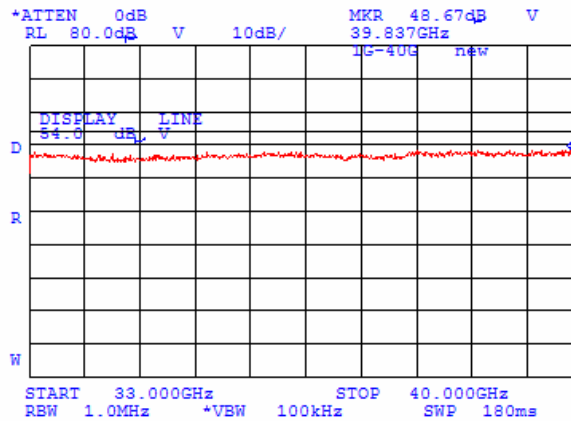
Plot 7.3.111 Radiated emission measurements from 33 to 40 GHz at the first mid carrier frequency

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



Plot 7.3.112 Radiated emission measurements from 33 to 40 GHz at the first mid carrier frequency

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



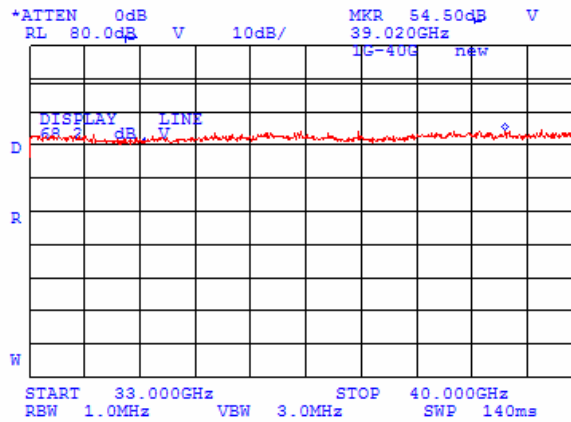


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 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> 6/22/2008			
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

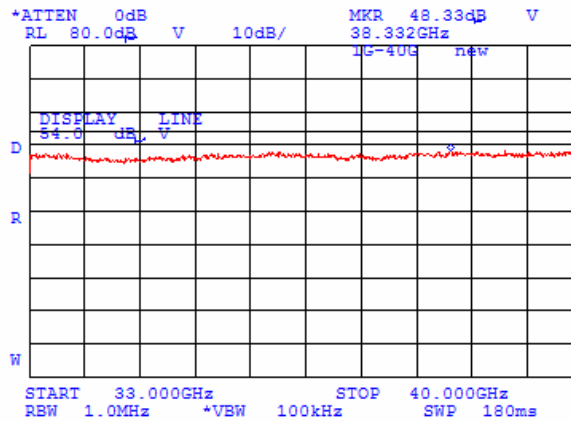
Plot 7.3.113 Radiated emission measurements from 33 to 40 GHz at the second mid carrier frequency

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



Plot 7.3.114 Radiated emission measurements from 33 to 40 GHz at the second mid carrier frequency

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



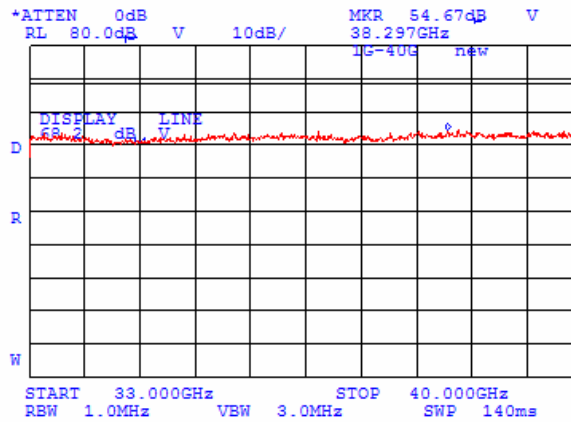


HERMON LABORATORIES

<b>Test specification:</b>		<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>	6/22/2008		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1009 hPa	<b>Relative Humidity:</b> 58 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

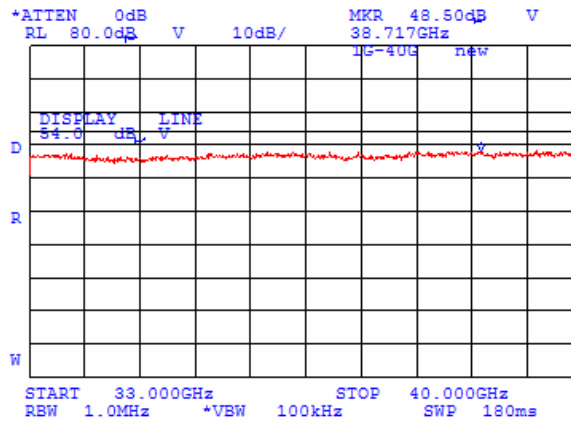
Plot 7.3.115 Radiated emission measurements from 33 to 40 GHz at the high carrier frequency (5475MHz)

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



Plot 7.3.116 Radiated emission measurements from 33 to 40 GHz at the high carrier frequency (5480MHz)

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





<b>Test specification:</b>	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges		
<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>	11/23/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b>			

## 7.4 Conducted spurious emission measurements at band edges

### 7.4.1 General

This test was performed to measure conducted spurious emissions from the EUT near the band edges and within the pass band of the antenna. Specification test limits are given in Table 7.4.1.

Table 7.4.1 Spurious emission test limits

Assigned frequency range, MHz	EIRP of spurious, dBm/MHz	Antenna assembly gain, dBi	Resolution bandwidth, kHz
5470 - 5725	-27	22.5	1000
5470 - 5725	-27	28	1000

### 7.4.2 Test procedure

- 7.4.2.1 The EUT was set up as shown in Figure 7.4.1, energized normally modulated at the maximum data rate and its proper operation was checked.
- 7.4.2.2 The EUT was adjusted to produce maximum available to end user RF output power at the lowest carrier frequency.
- 7.4.2.3 The spectrum analyzer span was set to capture the carrier frequency and associated modulation products. The resolution bandwidth was set to 1 MHz.
- 7.4.2.4 The spectrum analyzer was set in max hold mode and allowed trace to stabilize. The highest emission level within the authorized band was measured.
- 7.4.2.5 The maximum band edge emission and modulation product outside of the band were measured as provided in Table 7.4.2, Table 7.4.3 and associated plots and referenced to the highest emission level measured within the authorized band.
- 7.4.2.6 The above procedure was repeated with the EUT adjusted to produce maximum RF output power at the mid and highest carrier frequencies.

Figure 7.4.1 Setup for conducted spurious emissions



### Reference numbers of test equipment used

HL 2780	HL 2883	HL 3176				
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Full description is given in Appendix A.



HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	11/23/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

**Table 7.4.2 Conducted spurious emission test results**

ASSIGNED FREQUENCY RANGE: 5470 – 5725 MHz  
 DETECTOR USED: Peak  
 RESOLUTION BANDWIDTH 1000 kHz  
 VIDEO BANDWIDTH: 3000 kHz

Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	SA reading, dBm	Limit*, dBm/MHz	Antenna assembly gain, dBi	EIRP, dBm/MHz	Margin**, dB	Verdict
Edge	Channel									
5469.975	5490	BPSK	13	20	-52.93	-27	22.5	-30.43	-3.43	Pass
5469.925		64QAM	130		-52.98	-27	22.5	-30.48	-3.48	Pass
5469.975	5485	BPSK	6.5	10	-65.2	-27	22.5	-42.70	-15.70	Pass
5470.000		64QAM	65		-66.14	-27	22.5	-43.64	-16.64	Pass
5469.950	5480	BPSK	3.25	5	-65.95	-27	22.5	-43.45	-16.45	Pass
5470.000		BPSK	3.25		-67.11	-27	22.5	-44.61	-17.61	Pass
5600.000	5580	BPSK	13	20	-54.38	-27	22.5	-31.88	-4.88	Pass
5600.000		64QAM	130		-53.52	-27	22.5	-31.02	-4.02	Pass
5600.000	5585	BPSK	6.5	10	-66.70	-27	22.5	-44.20	-17.20	Pass
5625.000					-68.76	-27	22.5	-46.26	-19.26	Pass
5600.000		64QAM	65		-66.89	-27	22.5	-44.39	-17.39	Pass
5624.875					-68.91	-27	22.5	-46.41	-19.41	Pass
5600.000	5590	BPSK	3.25	5	-68.58	-27	22.5	-46.08	-19.08	Pass
5628.250					-63.53	-27	22.5	-41.03	-14.03	Pass
5631.875		64QAM	32.5	5	-65.71	-27	22.5	-43.21	-16.21	Pass
5600.000					-68.72	-27	22.5	-46.22	-19.22	Pass
5628.125					-63.71	-27	22.5	-41.21	-14.21	Pass
5631.750					-65.19	-27	22.5	-42.69	-15.69	Pass
5630.250	5670	BPSK	13	20	-67.58	-27	22.5	-45.08	-18.08	Pass
5650.000					-55.13	-27	22.5	-32.63	-5.63	Pass
5630.250		64QAM	130		-67.80	-27	22.5	-45.30	-18.30	Pass
5650.000					-54.64	-27	22.5	-32.14	-5.14	Pass
5625.000	5665	BPSK	6.5	10	-68.91	-27	22.5	-46.41	-19.41	Pass
5650.000					-67.02	-27	22.5	-44.52	-17.52	Pass
5625.125		64QAM	65		-68.75	-27	22.5	-46.25	-19.25	Pass
5650.000					-67.04	-27	22.5	-44.54	-17.54	Pass
5618.250	5660	BPSK	3.25	5	-65.69	-27	22.5	-43.19	-16.19	Pass
5621.875					-63.70	-27	22.5	-41.20	-14.20	Pass
5650.000		64QAM	32.5		-68.24	-27	22.5	-45.74	-18.74	Pass
5618.500					-65.46	-27	22.5	-42.96	-15.96	Pass
5621.875					-63.79	-27	22.5	-41.29	-14.29	Pass
5650.000					-68.39	-27	22.5	-45.89	-18.89	Pass
5725.000	5705	BPSK	13	20	-56.03	-27	22.5	-33.53	-6.53	Pass
5745.060					-67.89	-27	22.5	-45.39	-18.39	Pass
5725.000		64QAM	130		-55.33	-27	22.5	-32.83	-5.83	Pass
5745.350					-68.01	-27	22.5	-45.51	-18.51	Pass
5725.025	5710	BPSK	6.5	10	-66.98	-27	22.5	-44.48	-17.48	Pass
5786.460					-68.84	-27	22.5	-46.34	-19.34	Pass
5725.025		64QAM	65		-66.86	-27	22.5	-44.36	-17.36	Pass
5785.890					-68.85	-27	22.5	-46.35	-19.35	Pass
5725.000	5715	BPSK	3.25	5	-68.27	-27	22.5	-45.77	-18.77	Pass
5753.110					-64.51	-27	22.5	-42.01	-15.01	Pass
5756.850		-66.27	-27		22.5	-43.77	-16.77	Pass		
5725.000		64QAM	32.5		-68.20	-27	22.5	-45.70	-18.70	Pass
5753.110					-64.61	-27	22.5	-42.11	-15.11	Pass
5756.850	-66.34			-27	22.5	-43.84	-16.84	Pass		

\* - EIRP = SA reading (dBm) + Antenna assembly gain;

\*\* - Margin = EIRP of spurious – specified limit.

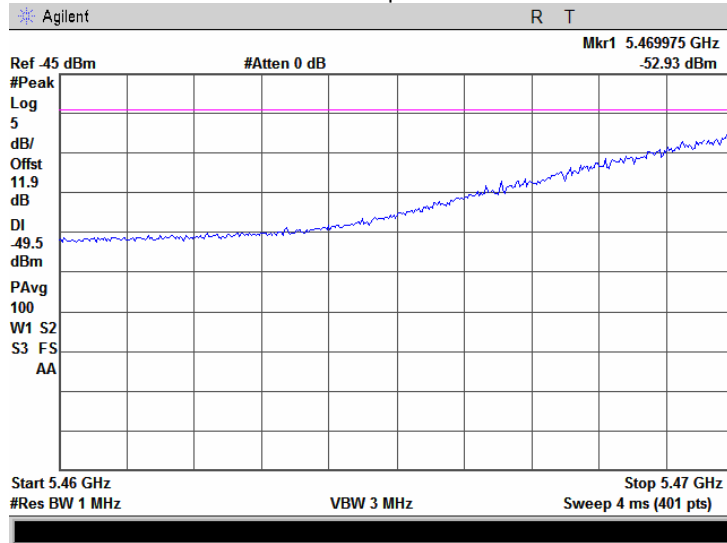


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	11/23/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

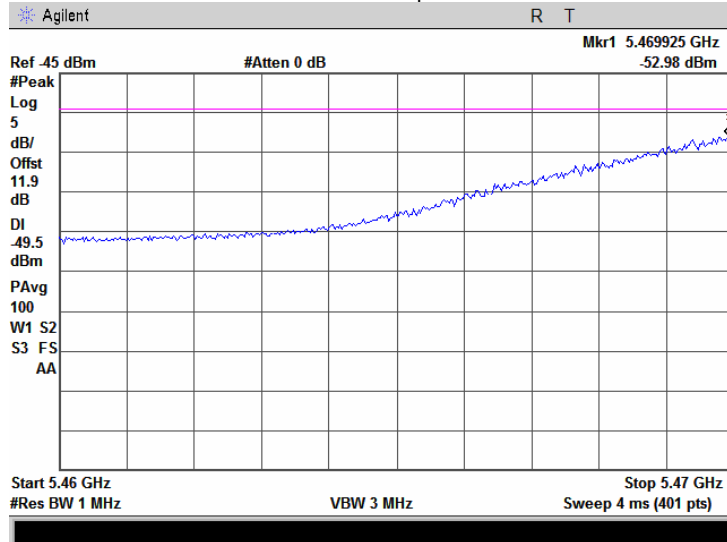
Plot 7.4.1 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5490 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: BPSK 13 Mbps



Plot 7.4.2 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5490 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: 64QAM 130 Mbps



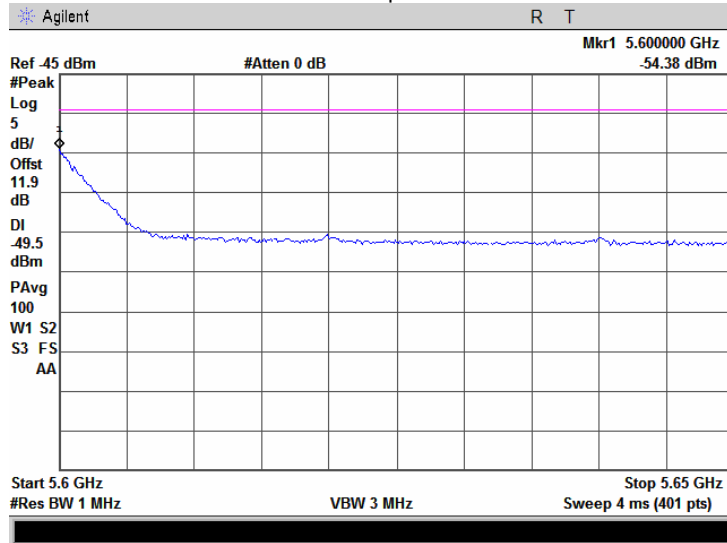


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Conducted emissions at band edges</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> 11/23/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

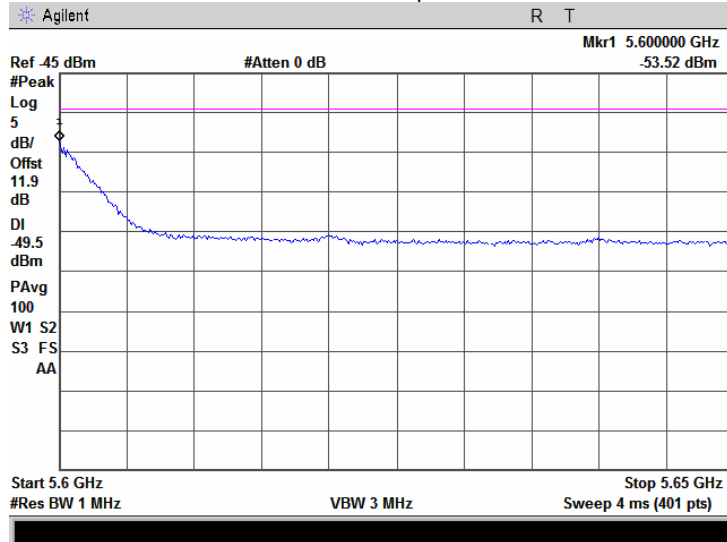
Plot 7.4.3 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5580 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: BPSK 13 Mbps



Plot 7.4.4 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5580 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: 64QAM 130 Mbps



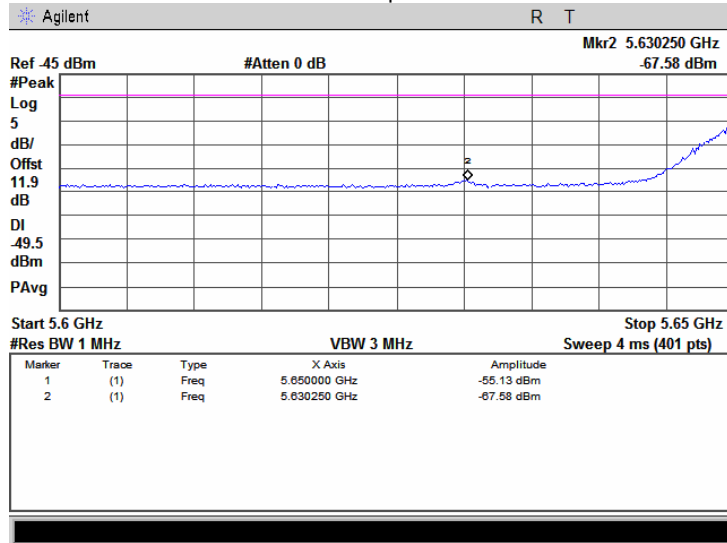


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Conducted emissions at band edges</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> 11/23/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

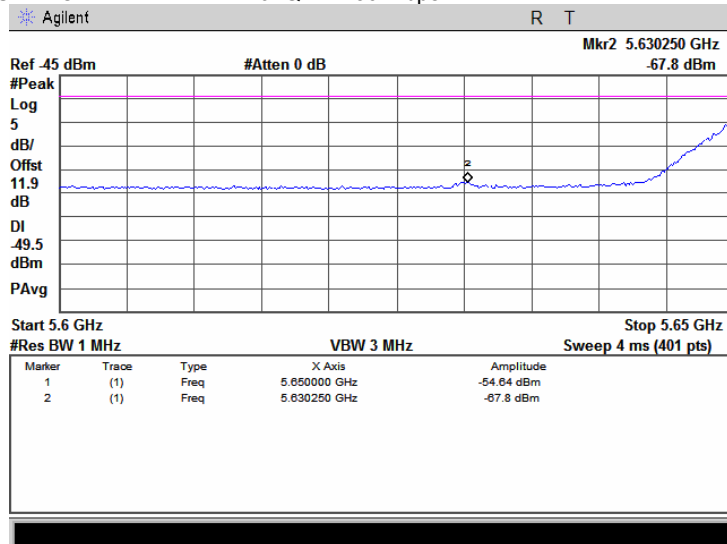
Plot 7.4.5 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5670 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: BPSK 13 Mbps



Plot 7.4.6 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5670 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: 64QAM 130 Mbps





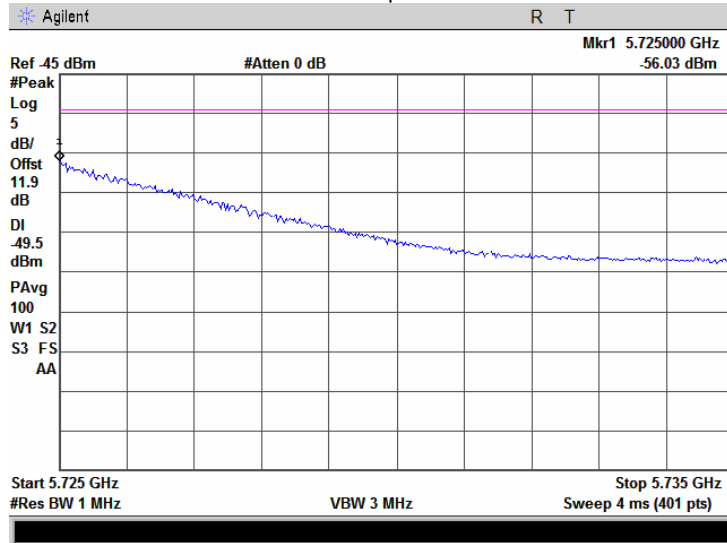


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Conducted emissions at band edges</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> 11/23/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

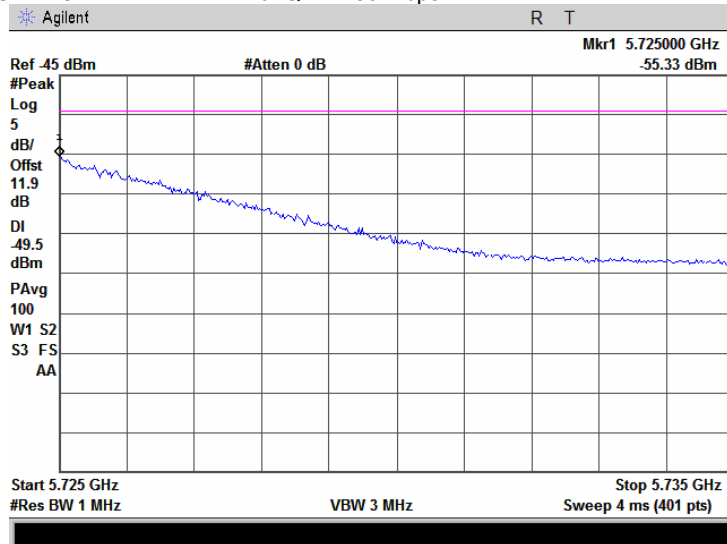
Plot 7.4.7 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5705 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: BPSK 13 Mbps



Plot 7.4.8 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5705 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: 64QAM 130 Mbps



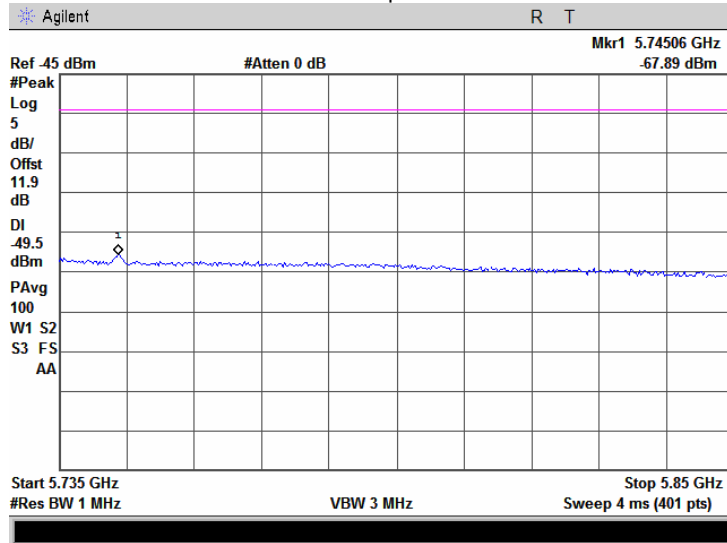


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Conducted emissions at band edges</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> 11/23/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

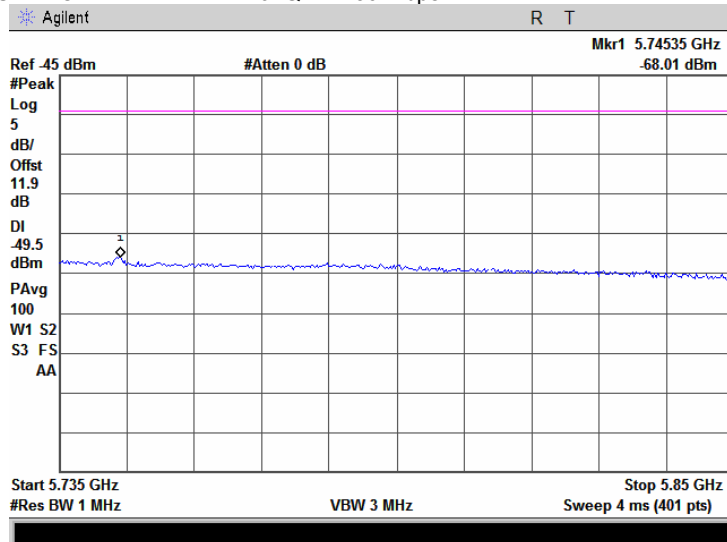
Plot 7.4.9 Conducted spurious emission measurements in the frequency range 5735 – 5850 MHz

CARRIER FREQUENCY 5705 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: BPSK 13 Mbps



Plot 7.4.10 Conducted spurious emission measurements in the frequency range 5735 – 5850 MHz

CARRIER FREQUENCY 5705 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: 64QAM 130 Mbps



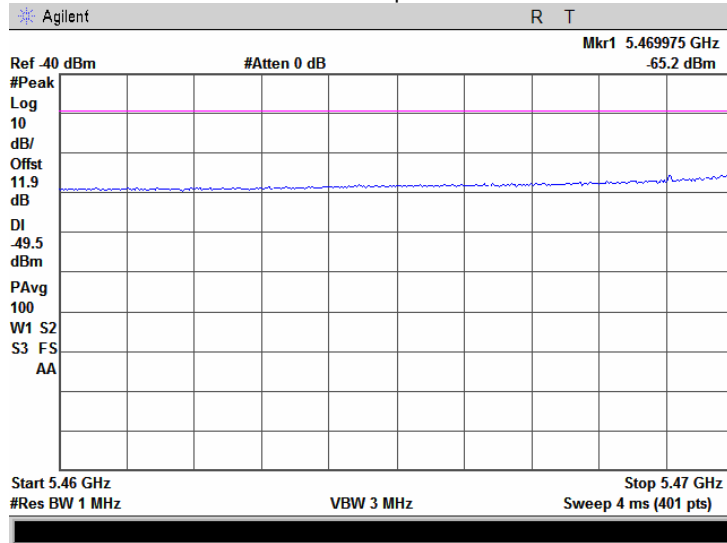


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Conducted emissions at band edges</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> 11/23/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

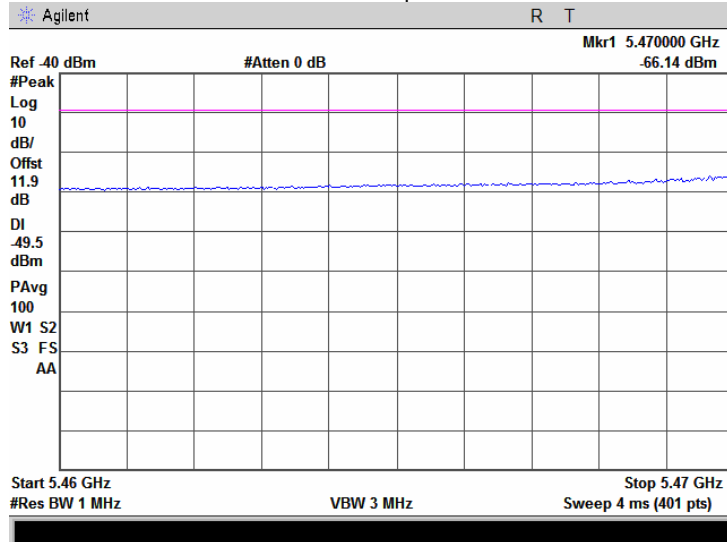
Plot 7.4.11 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5485 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: BPSK 6.5 Mbps



Plot 7.4.12 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5485 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: 64QAM 65 Mbps



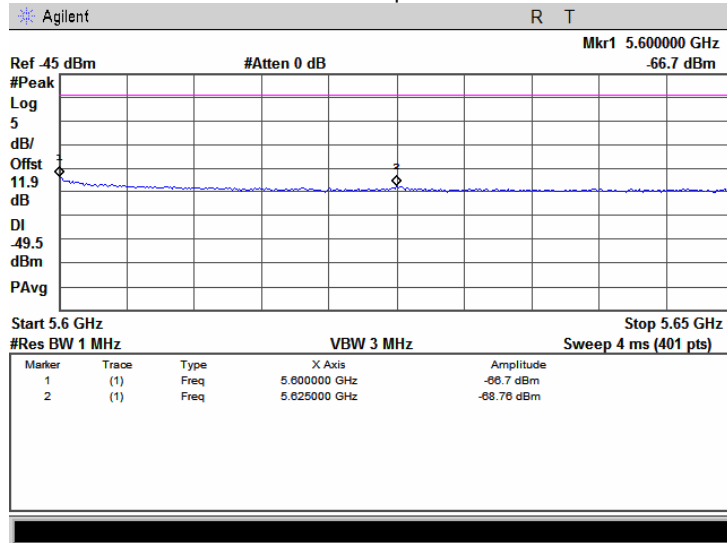


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	11/23/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

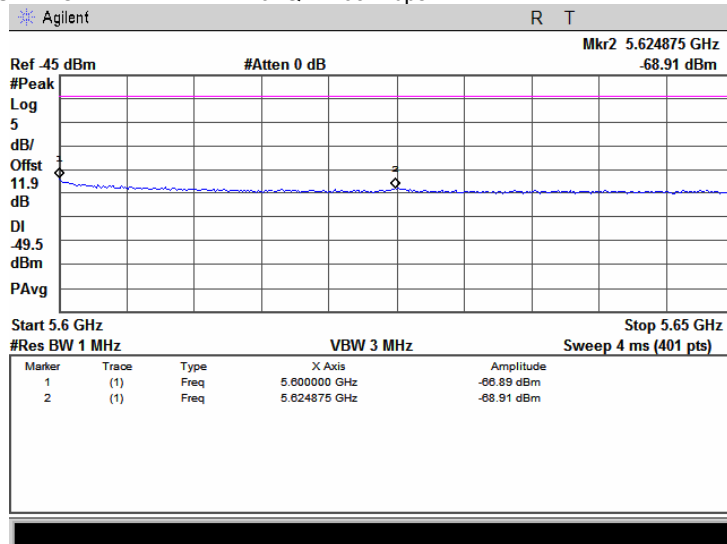
Plot 7.4.13 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5585 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: BPSK 6.5 Mbps



Plot 7.4.14 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5585 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: 64QAM 65 Mbps



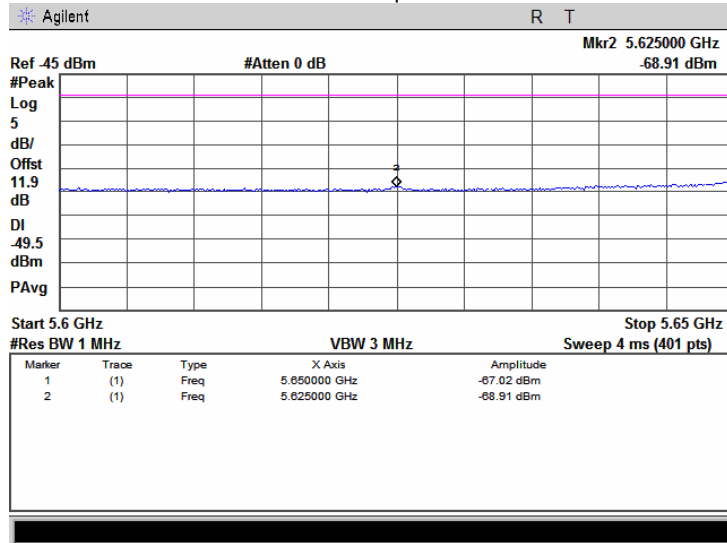


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	11/23/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

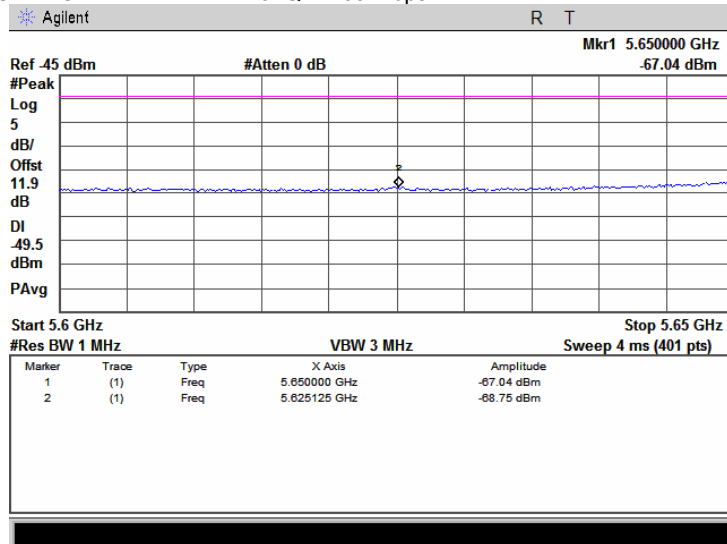
Plot 7.4.15 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5665 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: BPSK 6.5 Mbps



Plot 7.4.16 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5665 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: 64QAM 65 Mbps



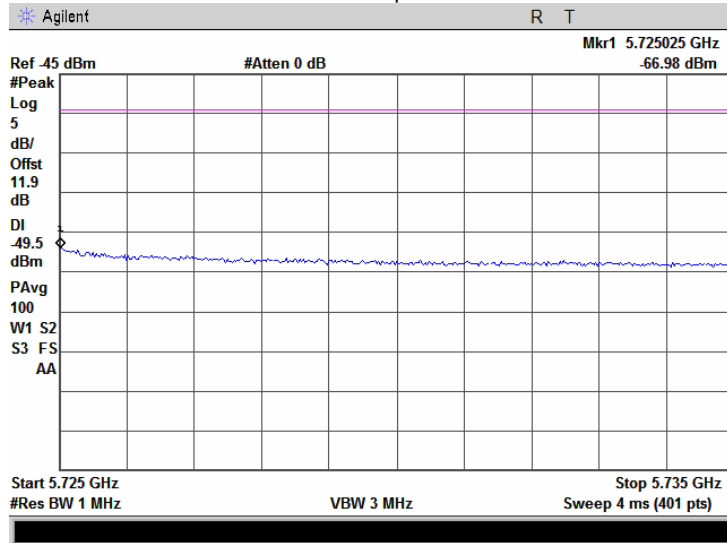


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Conducted emissions at band edges</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> 11/23/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

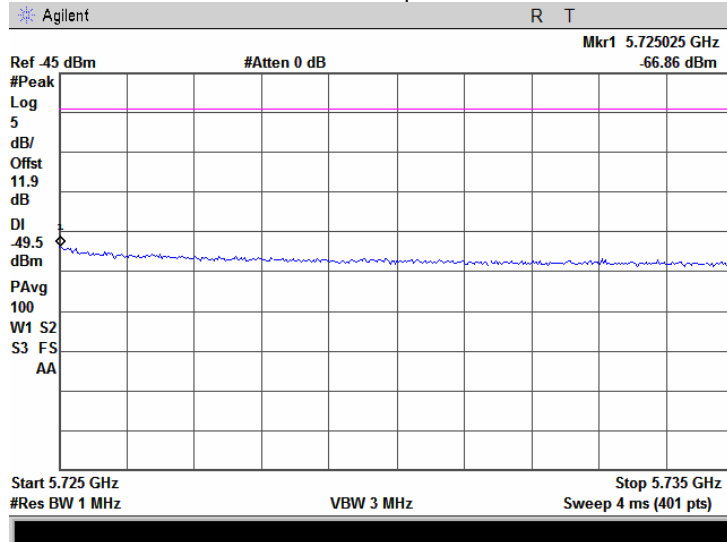
Plot 7.4.17 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5710 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: BPSK 6.5 Mbps



Plot 7.4.18 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5710 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: 64QAM 65 Mbps



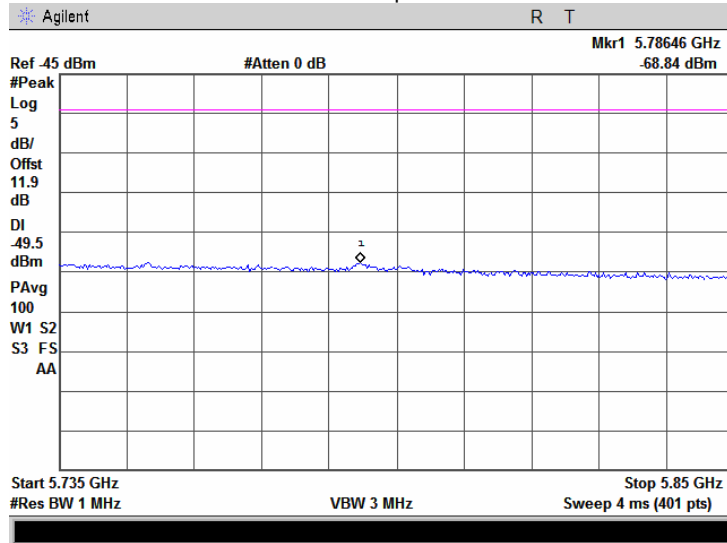


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	11/23/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

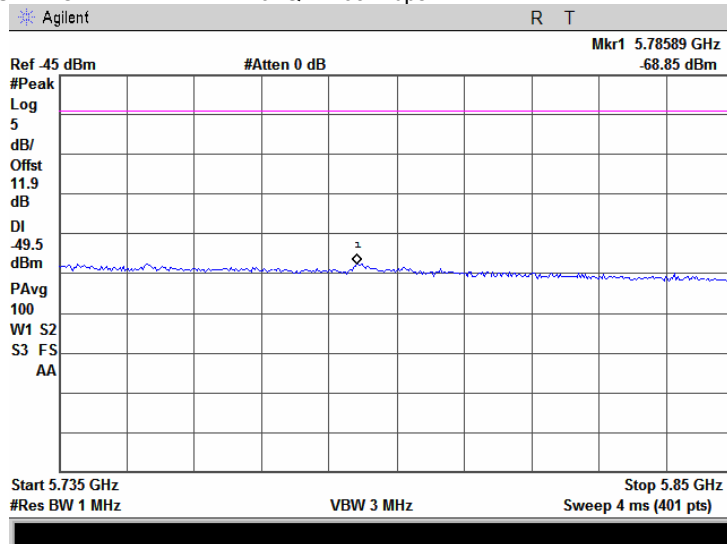
Plot 7.4.19 Conducted spurious emission measurements in the frequency range 5735 – 5850 MHz

CARRIER FREQUENCY 5710 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: BPSK 6.5 Mbps



Plot 7.4.20 Conducted spurious emission measurements in the frequency range 5735 – 5850 MHz

CARRIER FREQUENCY 5710 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: 64QAM 65 Mbps



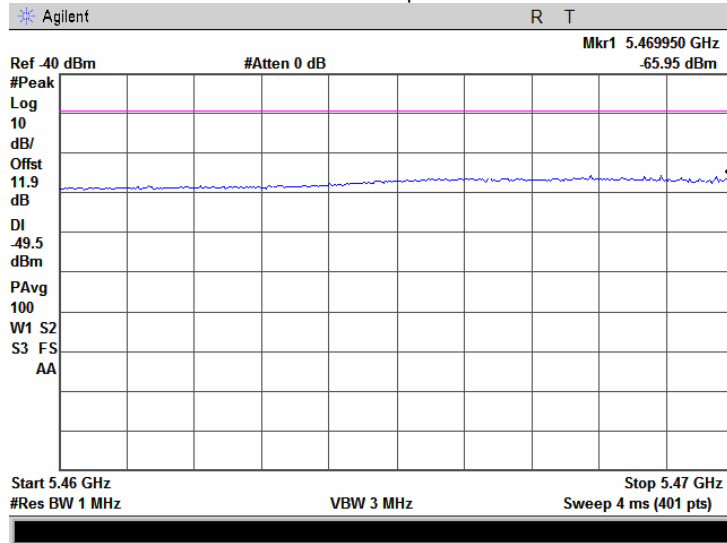


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	11/23/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

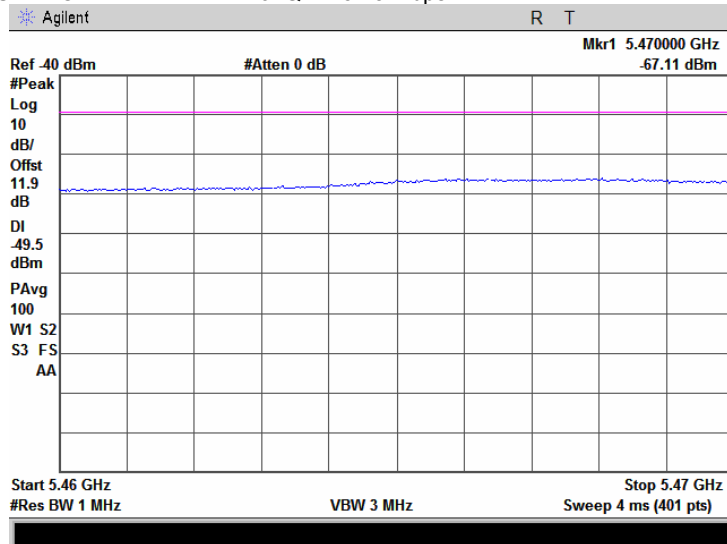
Plot 7.4.21 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5480 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: BPSK 3.25 Mbps



Plot 7.4.22 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5480 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: 64QAM 32.5 Mbps





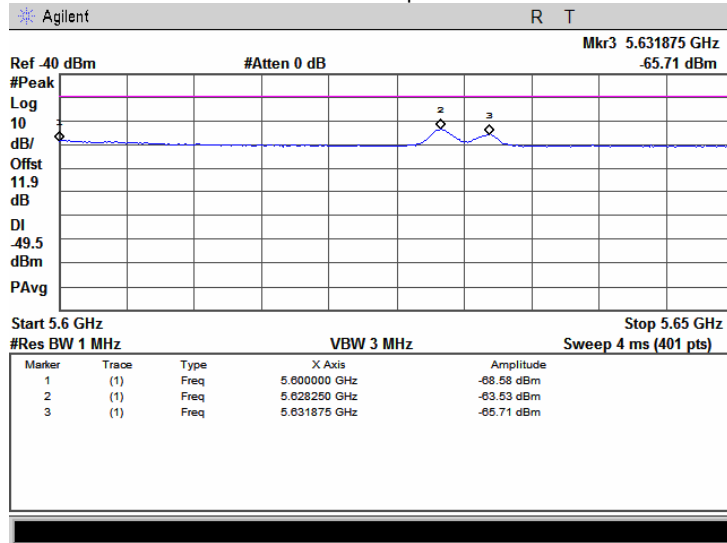


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	11/23/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

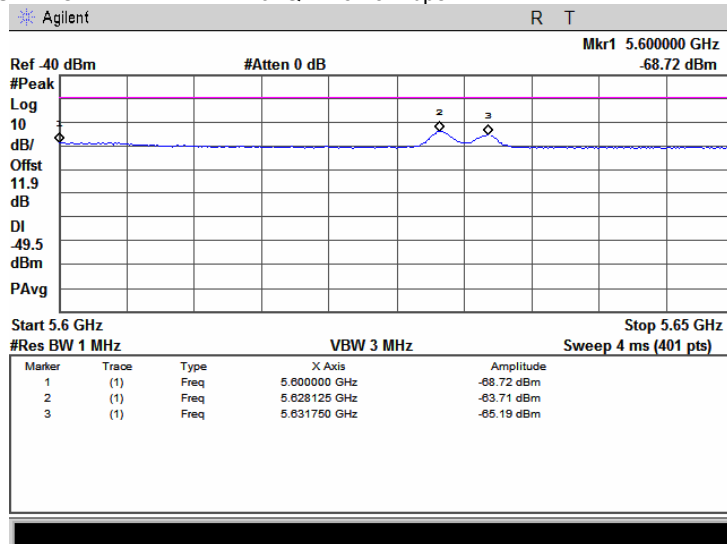
Plot 7.4.23 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5590 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: BPSK 3.25 Mbps



Plot 7.4.24 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5590 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: 64QAM 32.5 Mbps



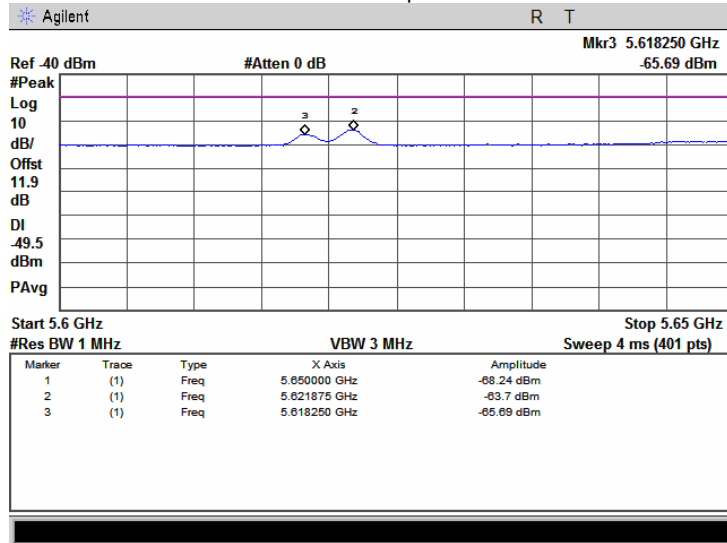


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	11/23/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

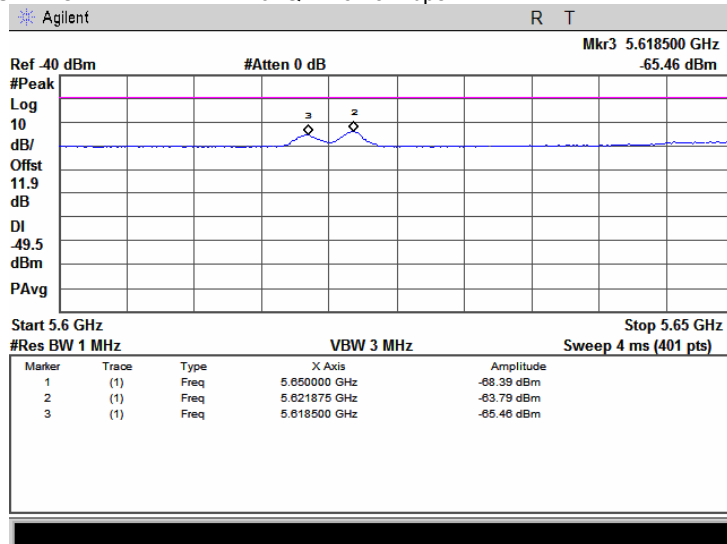
Plot 7.4.25 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5660 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: BPSK 3.25 Mbps



Plot 7.4.26 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5660 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: 64QAM 32.5 Mbps

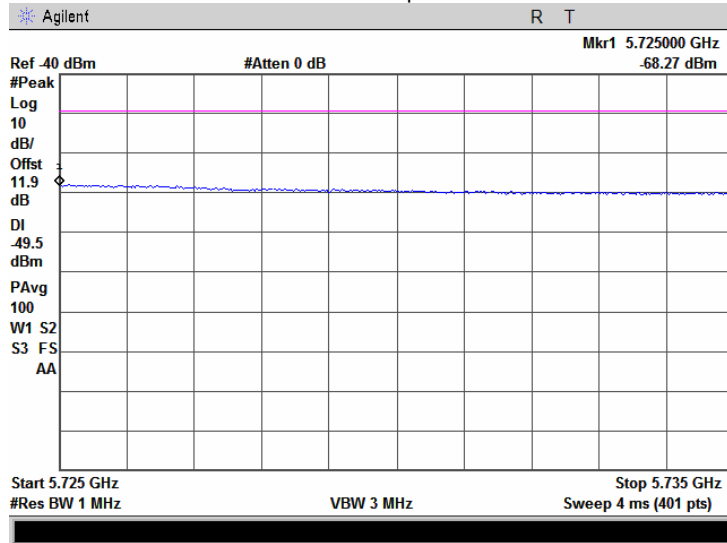




<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Conducted emissions at band edges</b>			
<b>Test procedure:</b> Public notice DA 00-705 / ANSI C63.4, Section 13.1.4			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 11/23/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

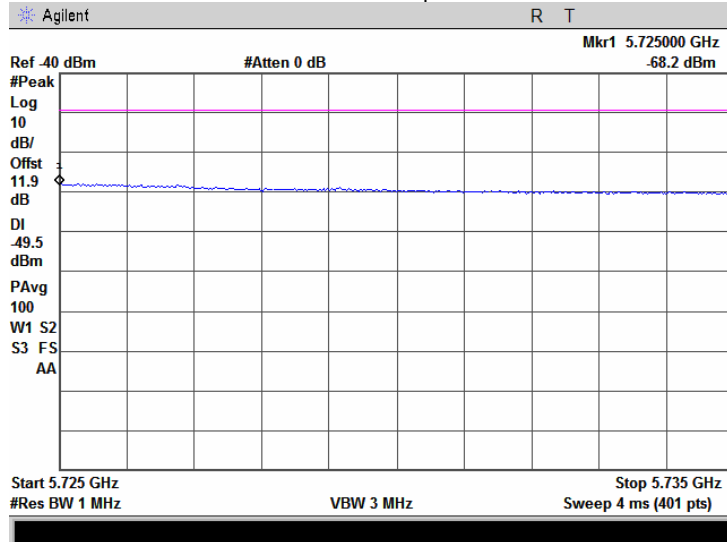
Plot 7.4.27 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5715 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: BPSK 3.25 Mbps



Plot 7.4.28 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5715 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: 64QAM 32.5 Mbps



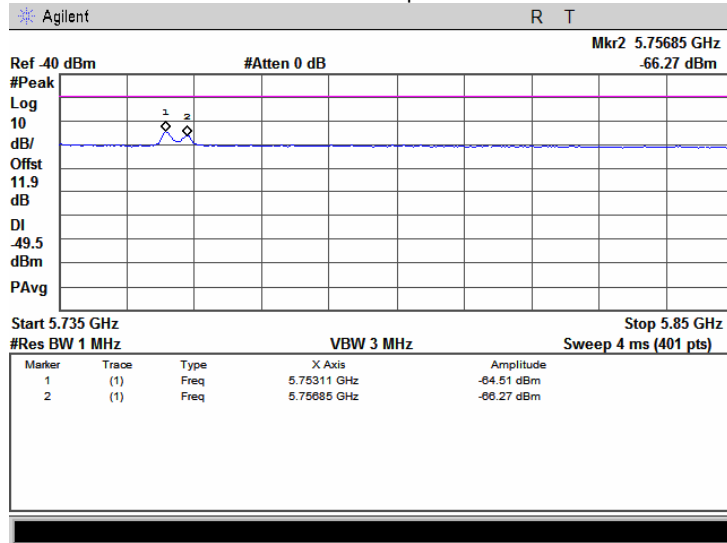


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<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</b>		
<b>Test procedure:</b>	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	11/23/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1007 hPa	<b>Relative Humidity:</b> 42 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

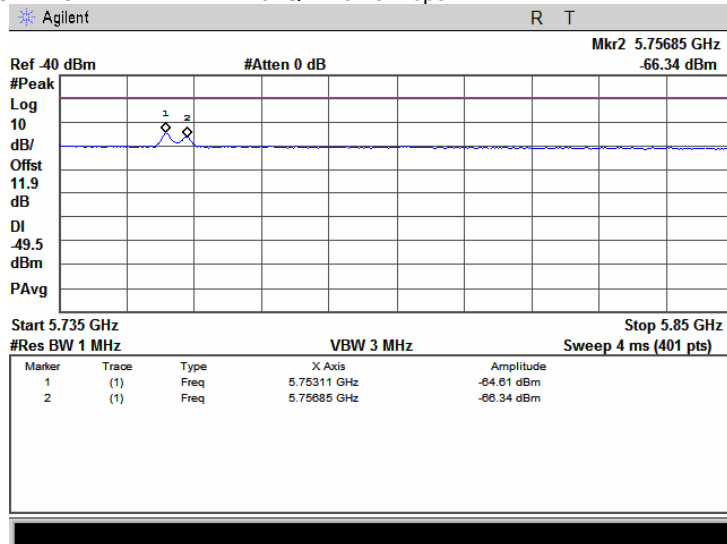
Plot 7.4.29 Conducted spurious emission measurements in the frequency range 5735 – 5850 MHz

CARRIER FREQUENCY 5715 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: BPSK 3.25 Mbps



Plot 7.4.30 Conducted spurious emission measurements in the frequency range 5735 – 5850 MHz

CARRIER FREQUENCY 5715 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: 64QAM 32.5 Mbps





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<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

**Table 7.4.3 Conducted spurious emission test results**

ASSIGNED FREQUENCY RANGE: 5470 – 5725 MHz  
 DETECTOR USED: Peak  
 RESOLUTION BANDWIDTH: 1000 kHz  
 VIDEO BANDWIDTH: 3000 kHz

Frequency, MHz		Modulation	Bit rate, Mbps	CBW, MHz	SA reading, dBm	Limit, dBm/MHz	Antenna assembly gain, dBi	EIRP, dBm/MHz	Margin*, dB	Verdict						
Edge	Channel															
5470	5490	BPSK	13	20	-64.03	-27	28	-36.03	-9.03	Pass						
5470		64QAM	130		-64.06	-27	28	-36.06	-9.06	Pass						
5470	5485	BPSK	6.5	10	No emissions were found					Pass						
5470		64QAM	65													
5470	5480	BPSK	3.25	5												
5470		64QAM	32.5													
5470																
5600	5580	BPSK	13	20							-63.87	-27	28	-35.87	-8.87	Pass
5600		64QAM	130								-63.70	-27	28	-35.70	-8.70	Pass
5600	5585	BPSK	6.5	10							No emissions were found					Pass
5600		64QAM	65													
5628.125	5590	BPSK	3.25	5	-66.59	-27	28	-38.59	-11.59	Pass						
5631.750			3.25		-68.21	-27	28	-40.21	-13.21	Pass						
5628.000		64QAM	32.5		-67.01	-27	28	-39.01	-12.01	Pass						
5631.625					-68.52	-27	28	-40.52	-13.52	Pass						
5650	5670	BPSK	13	20	-63.51	-27	28	-35.51	-8.51	Pass						
5650		64QAM	130		-64.20	-27	28	-36.20	-9.20	Pass						
5650	5665	BPSK	6.5	10	No emissions were found					Pass						
5650		64QAM	65													
5618.375	5660	BPSK	3.25	5	-68.44	-27	28	-40.44	-13.44	Pass						
5621.875			3.25		-67.25	-27	28	-39.25	-12.25	Pass						
5618.125		64QAM	32.5		-68.05	-27	28	-40.05	-13.05	Pass						
5621.875					-66.74	-27	28	-38.74	-11.74	Pass						
5725	5705	BPSK	13	20	-64.24	-27	28	-36.24	-9.24	Pass						
5725		64QAM	130		-64.62	-27	28	-36.62	-9.62	Pass						
5725	5710	BPSK	6.5	10	No emissions were found					Pass						
5725		64QAM	65													
5753.40	5715	BPSK	3.25	5	-67.50	-27	28	-39.5	-12.5	Pass						
5756.85			3.25		-69.03	-27	28	-41.03	-14.03	Pass						
5753.40		64QAM	32.5		-67.88	-27	28	-39.88	-12.88	Pass						
5756.85					-69.06	-27	28	-41.06	-14.06	Pass						

\*- Margin = Field strength of spurious – calculated field strength limit.

**Reference numbers of test equipment used**

HL 2780	HL 2883	HL 3176					
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Full description is given in Appendix A.

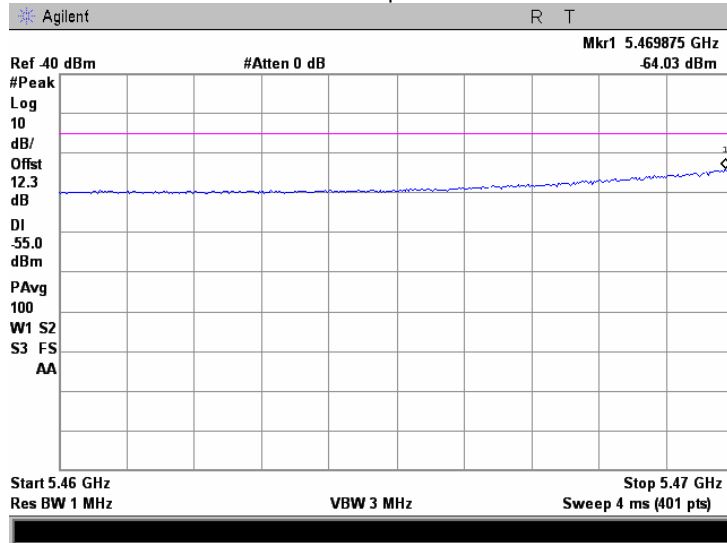


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

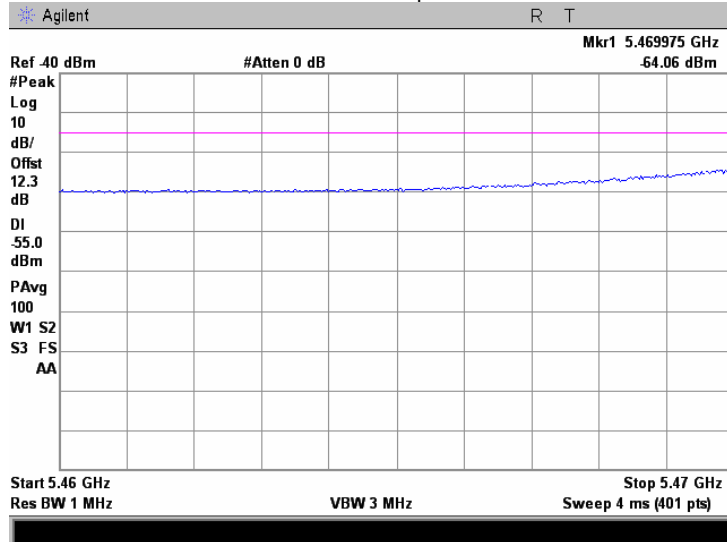
Plot 7.4.31 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5490 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: BPSK 13 Mbps



Plot 7.4.32 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5490 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: 64QAM 130 Mbps



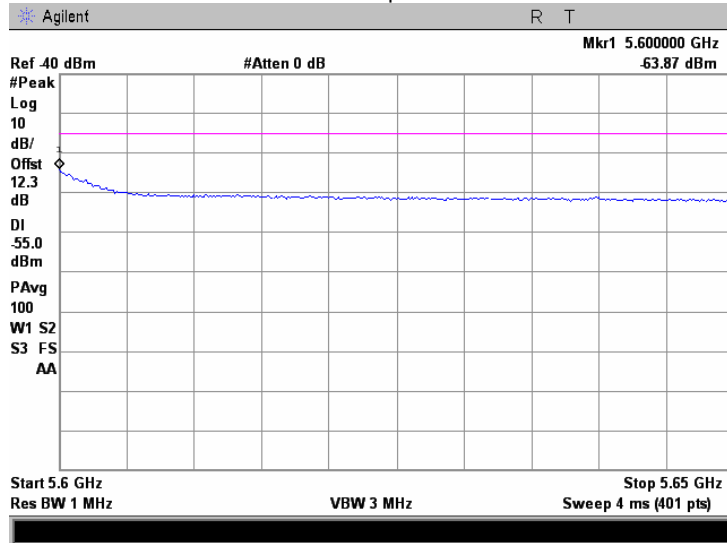


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

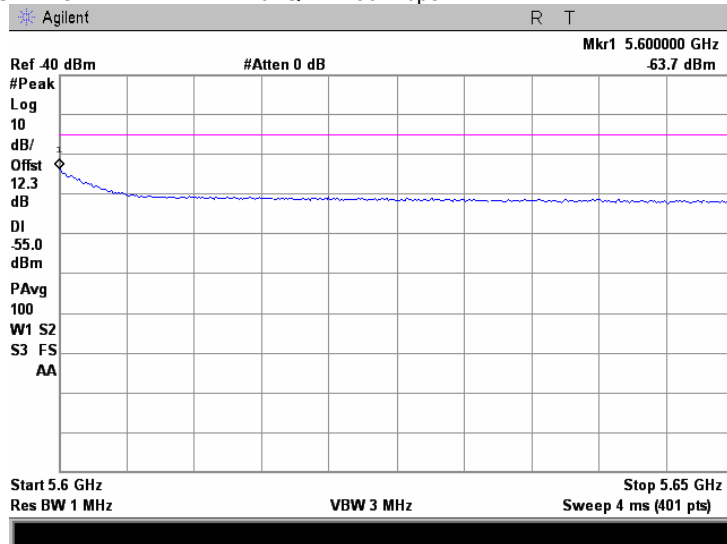
Plot 7.4.33 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5580 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: BPSK 13 Mbps



Plot 7.4.34 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5580 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: 64QAM 130 Mbps



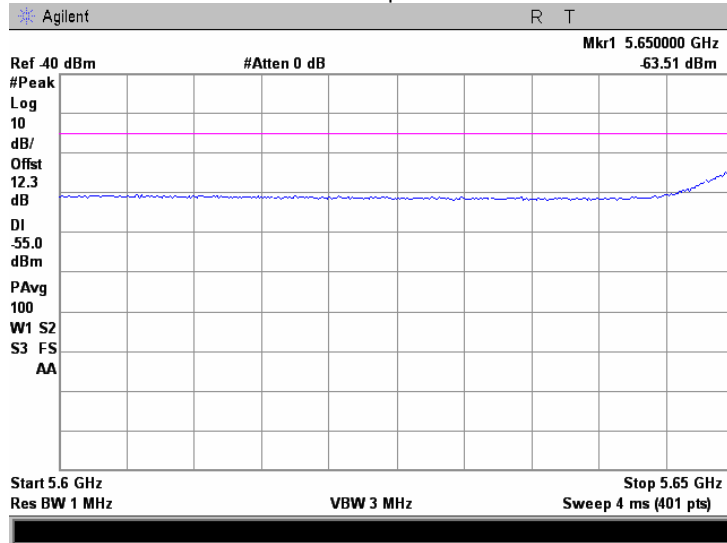


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Conducted emissions at band edges</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> 12/04/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

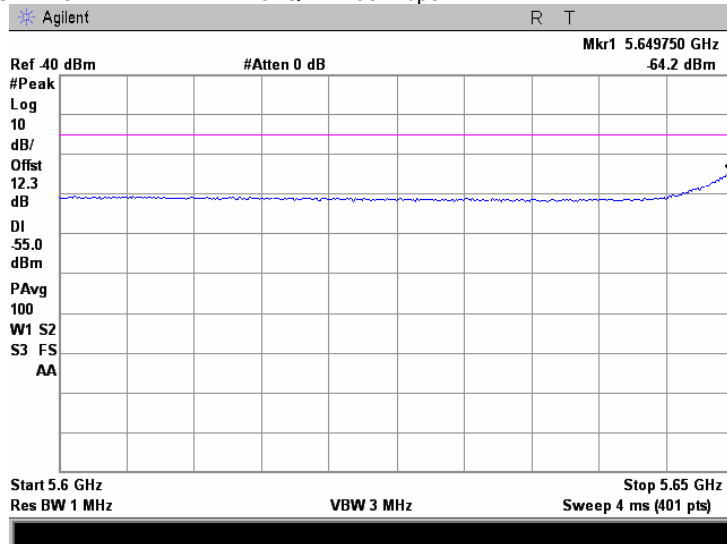
Plot 7.4.35 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5670 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: BPSK 13 Mbps



Plot 7.4.36 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5670 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: 64QAM 130 Mbps





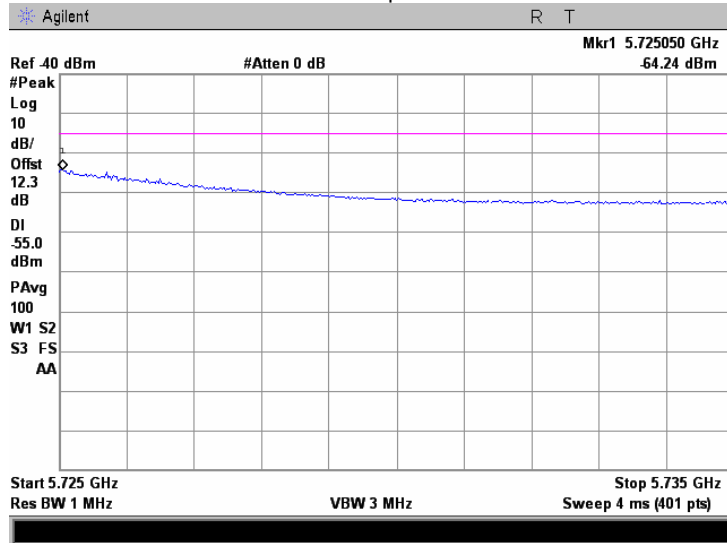


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

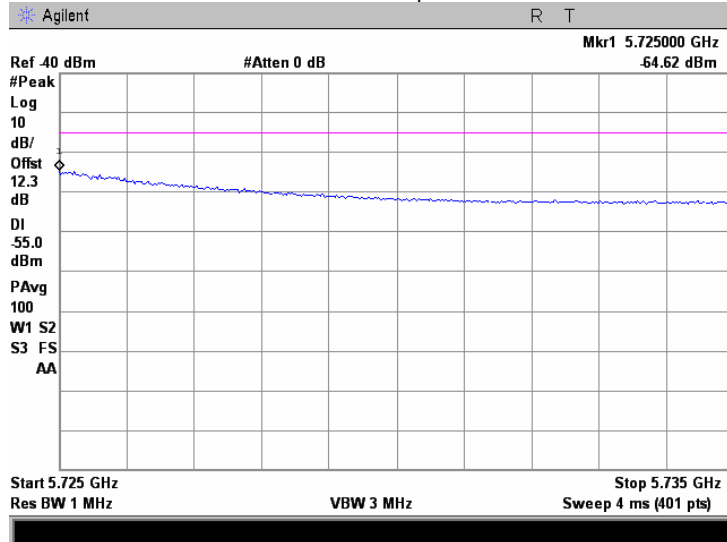
Plot 7.4.37 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5705 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: BPSK 13 Mbps



Plot 7.4.38 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5705 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: 64QAM 130 Mbps



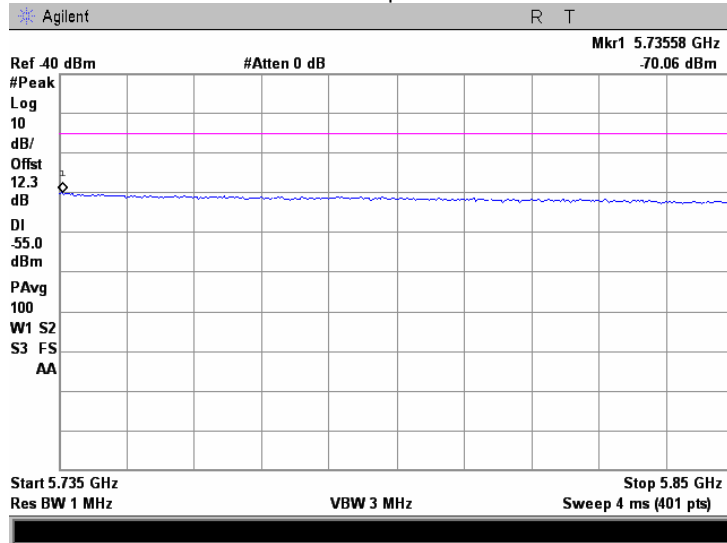


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

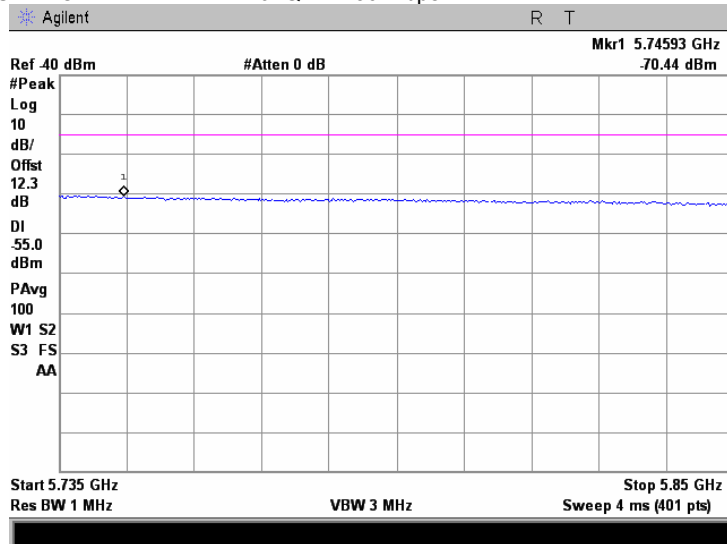
Plot 7.4.39 Conducted spurious emission measurements in the frequency range 5735 – 5850 MHz

CARRIER FREQUENCY 5705 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: BPSK 13 Mbps



Plot 7.4.40 Conducted spurious emission measurements in the frequency range 5735 – 5850 MHz

CARRIER FREQUENCY 5705 MHz  
CHANNEL BANDWIDTH 20 MHz  
MODULATION: 64QAM 130 Mbps



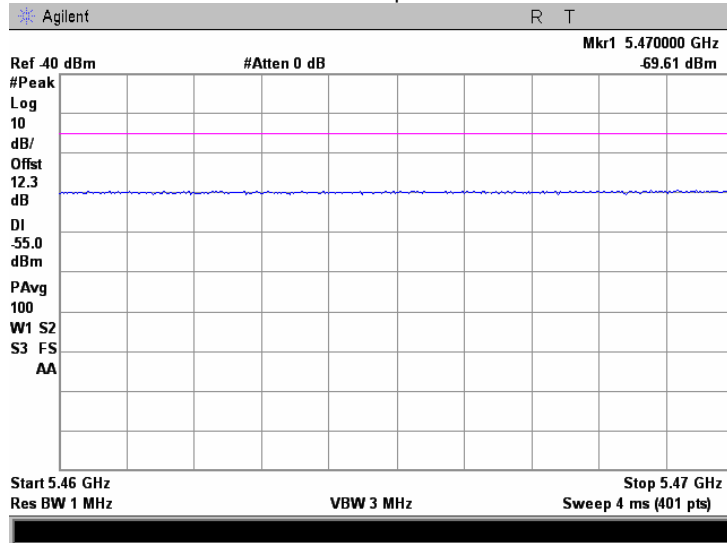


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

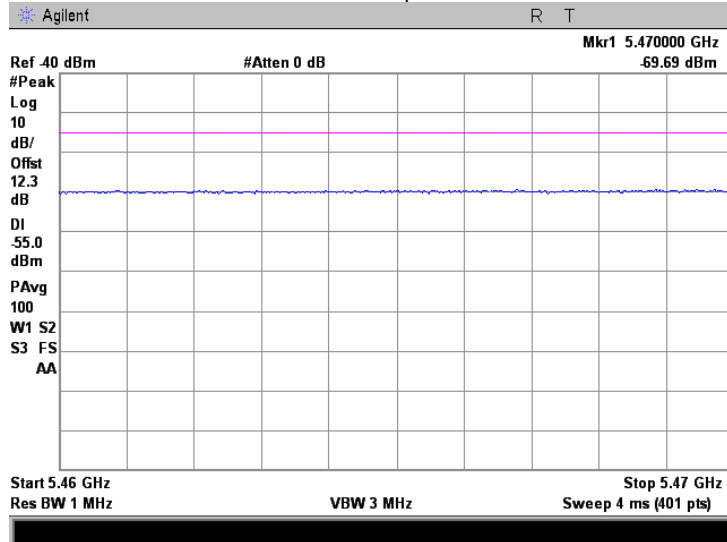
Plot 7.4.41 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5485 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: BPSK 6.5 Mbps



Plot 7.4.42 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5485 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: 64QAM 65 Mbps



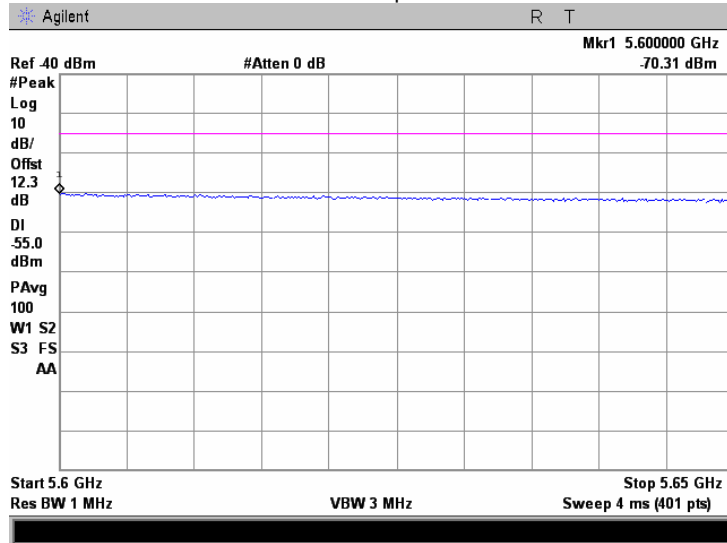


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(b), RSS-210 Annex 9, section A9.2 <b>Conducted emissions at band edges</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> 12/04/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

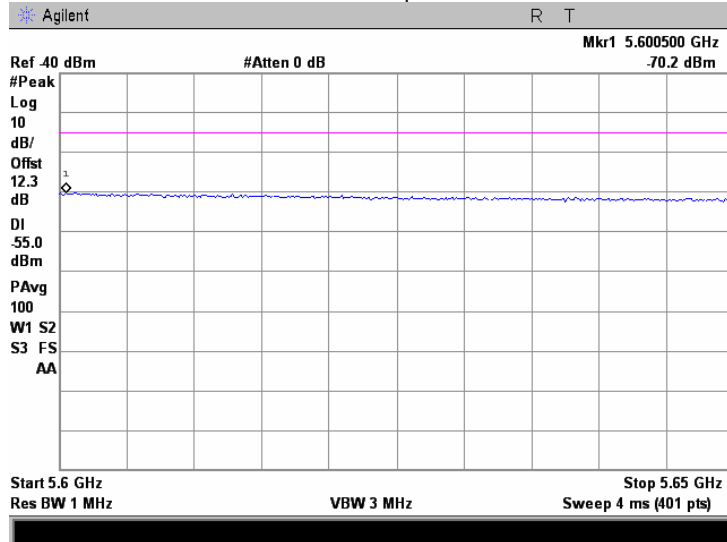
Plot 7.4.43 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5585 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: BPSK 6.5 Mbps



Plot 7.4.44 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5585 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: 64QAM 65 Mbps



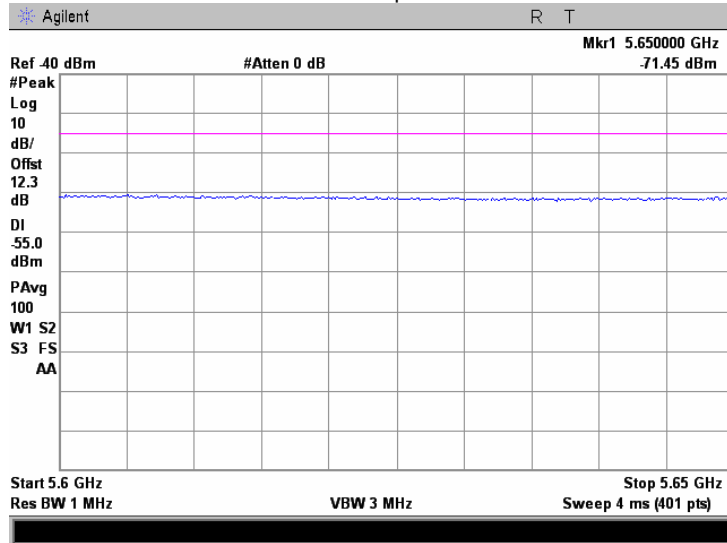


HERMON LABORATORIES

<b>Test specification:</b>		<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

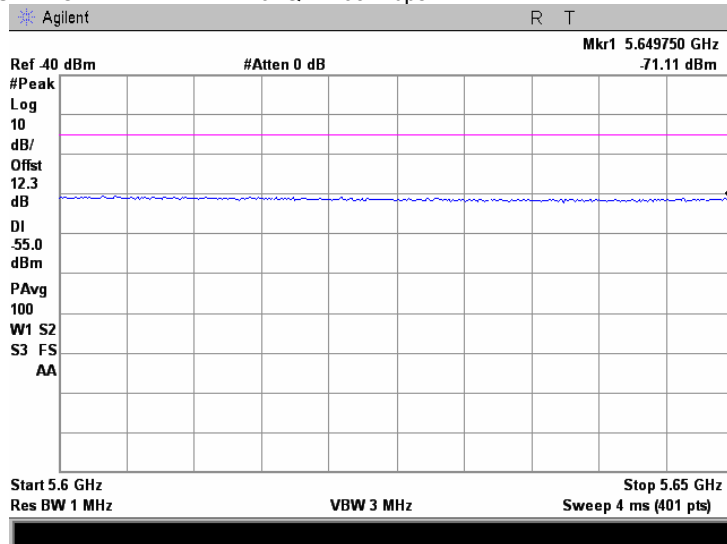
Plot 7.4.45 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5665 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: BPSK 6.5 Mbps



Plot 7.4.46 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5665 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: 64QAM 65 Mbps



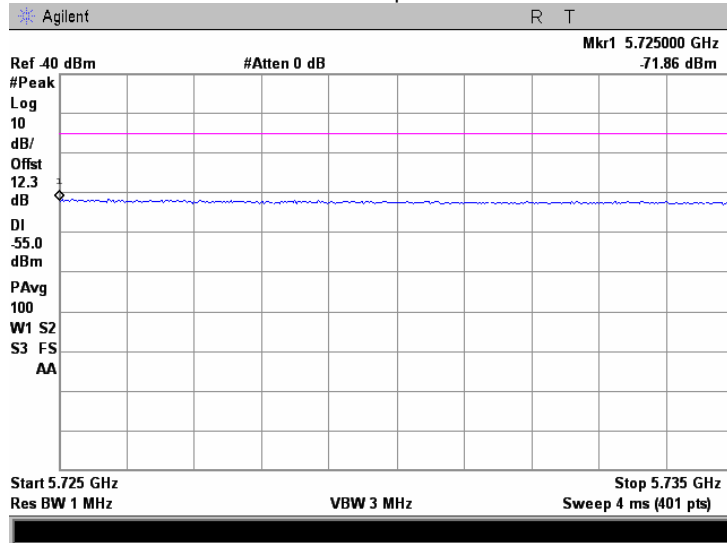


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

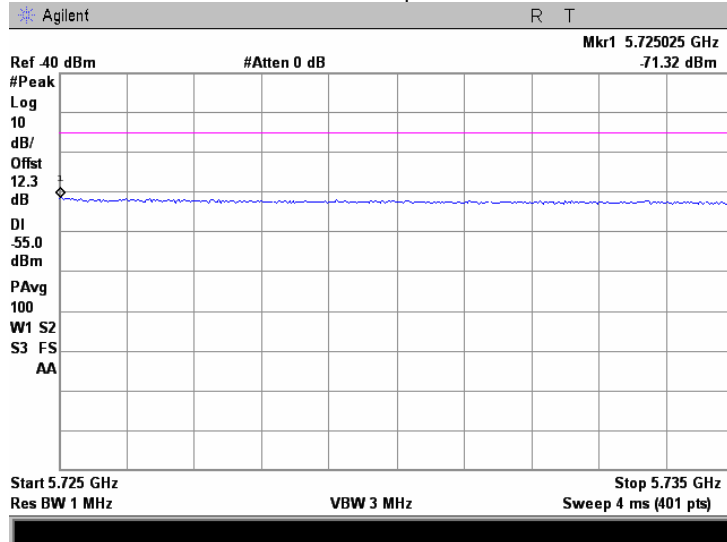
Plot 7.4.47 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5710 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: BPSK 6.5 Mbps



Plot 7.4.48 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5710 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: 64QAM 65 Mbps



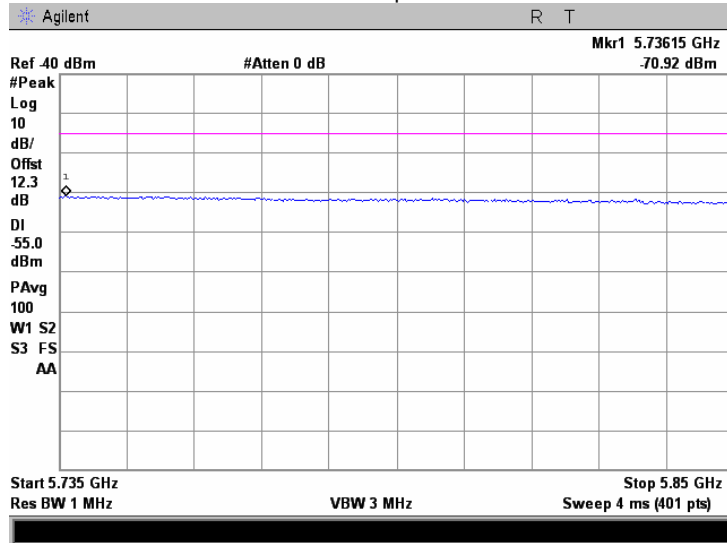


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

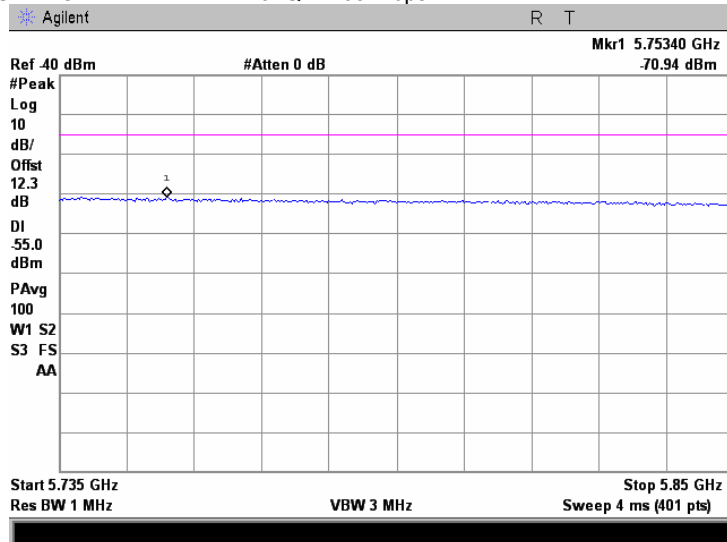
Plot 7.4.49 Conducted spurious emission measurements in the frequency range 5735 – 5850 MHz

CARRIER FREQUENCY 5710 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: BPSK 6.5 Mbps



Plot 7.4.50 Conducted spurious emission measurements in the frequency range 5735 – 5850 MHz

CARRIER FREQUENCY 5710 MHz  
CHANNEL BANDWIDTH 10 MHz  
MODULATION: 64QAM 65 Mbps

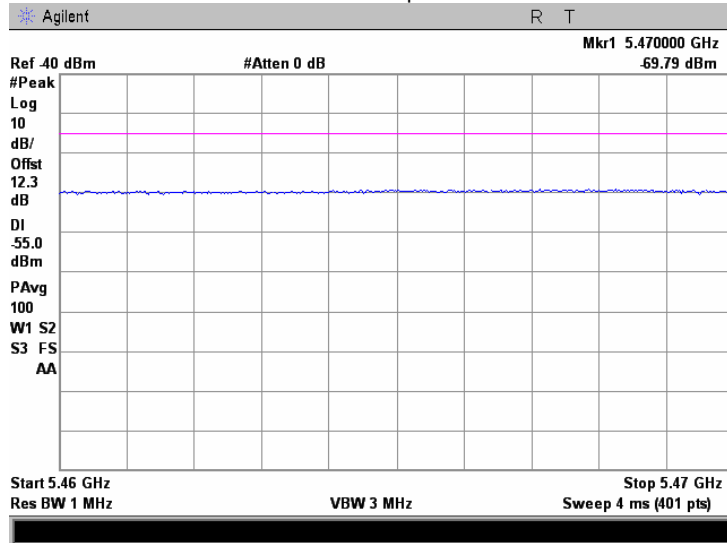




<b>Test specification:</b>		<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</b>	
<b>Test procedure:</b>		Public notice DA 00-705 / ANSI C63.4, Section 13.1.4	
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	PASS
<b>Date:</b>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

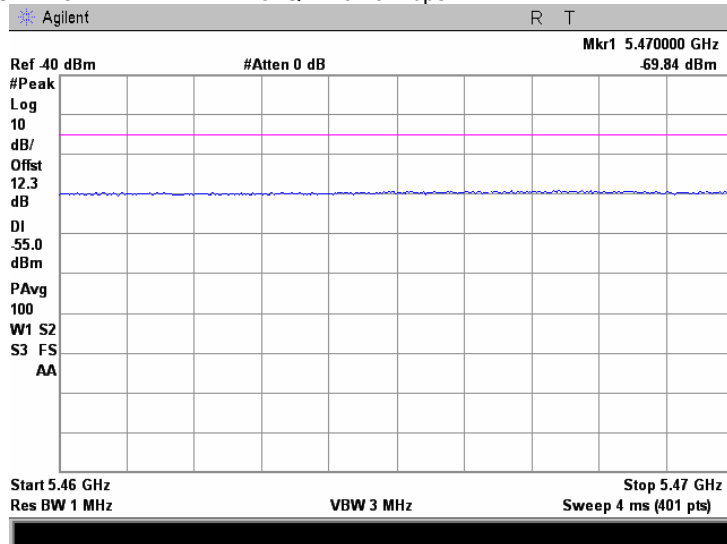
Plot 7.4.51 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5480 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: BPSK 3.25 Mbps



Plot 7.4.52 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5480 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: 64QAM 32.5 Mbps





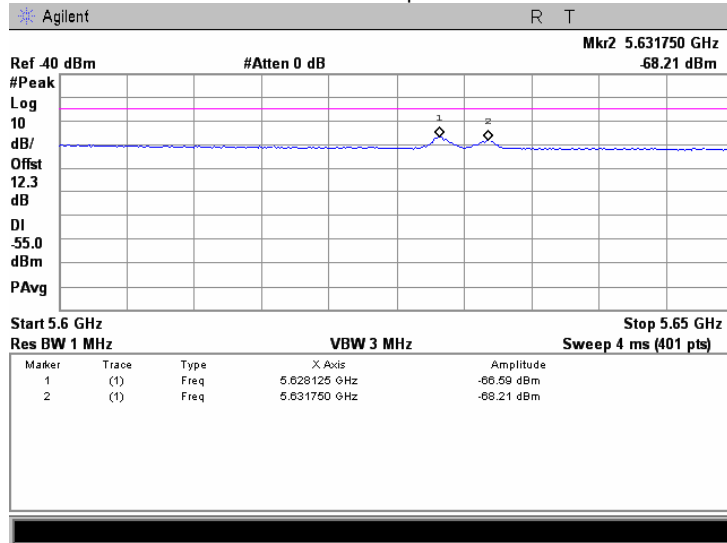


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

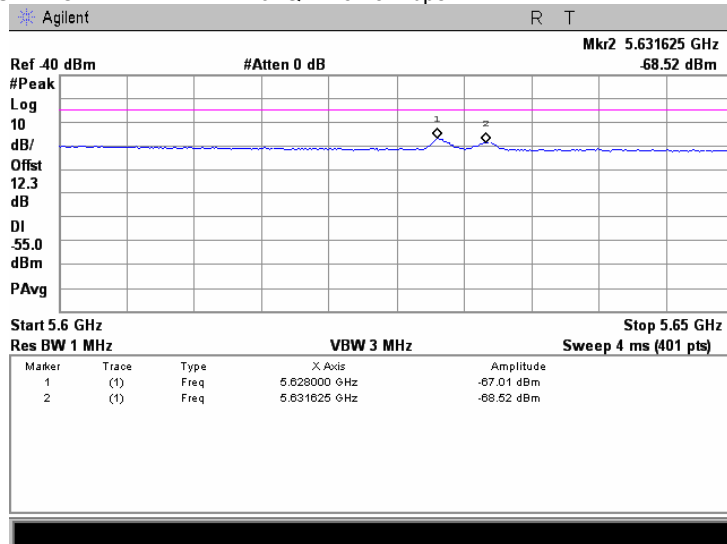
Plot 7.4.53 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5590 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: BPSK 3.25 Mbps



Plot 7.4.54 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5590 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: 64QAM 32.5 Mbps



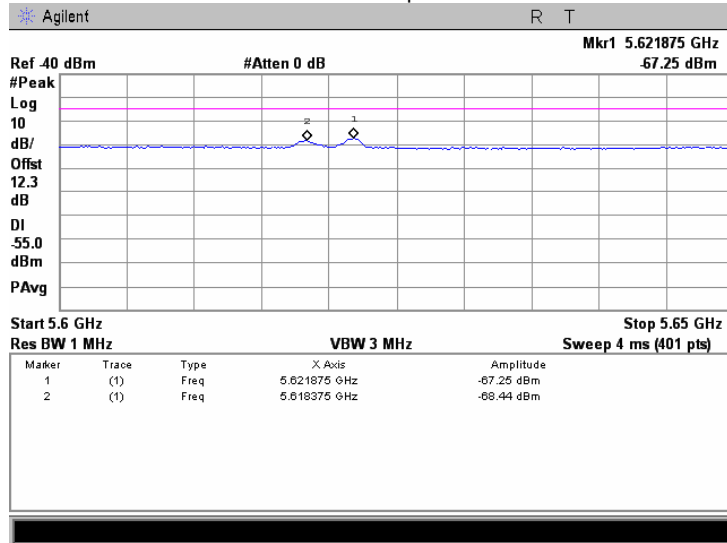


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

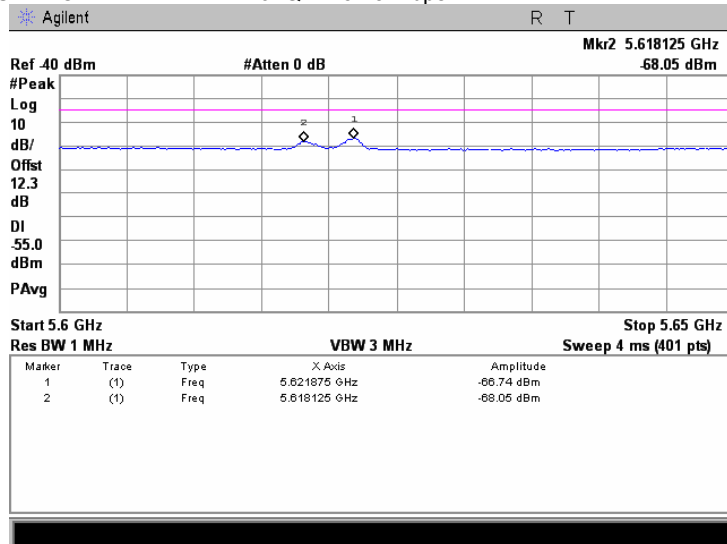
Plot 7.4.55 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5660 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: BPSK 3.25 Mbps



Plot 7.4.56 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5660 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: 64QAM 32.5 Mbps



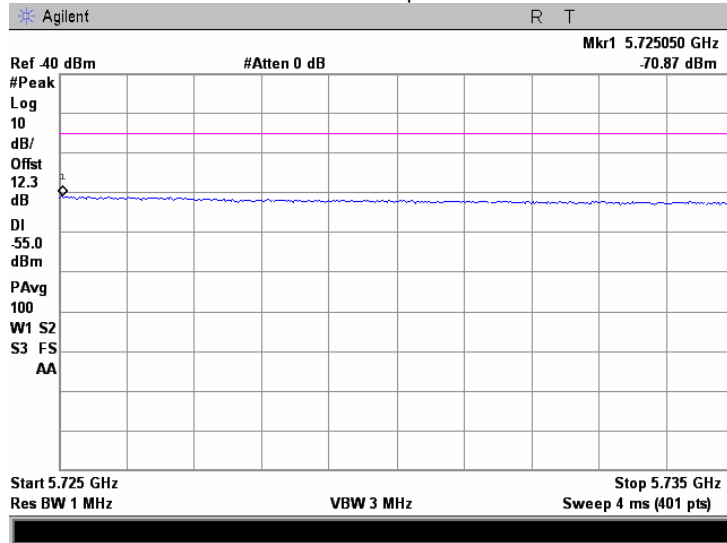


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

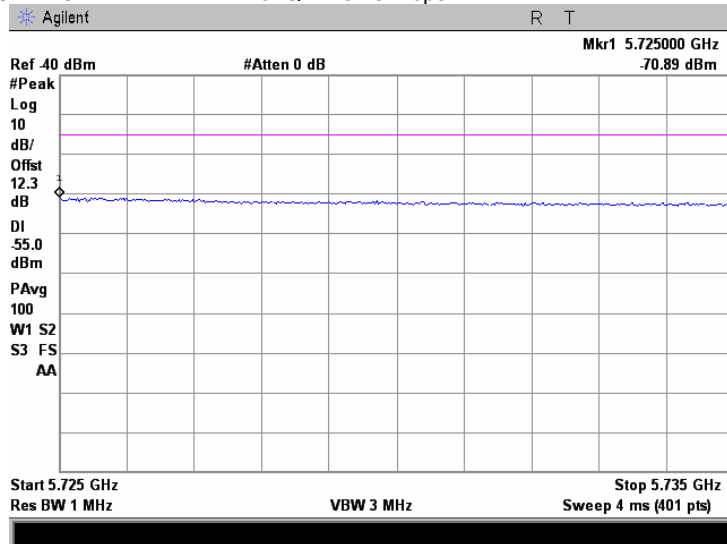
Plot 7.4.57 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5715 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: BPSK 3.25 Mbps



Plot 7.4.58 Conducted spurious emission measurements at the band edges

CARRIER FREQUENCY 5715 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: 64QAM 32.5 Mbps



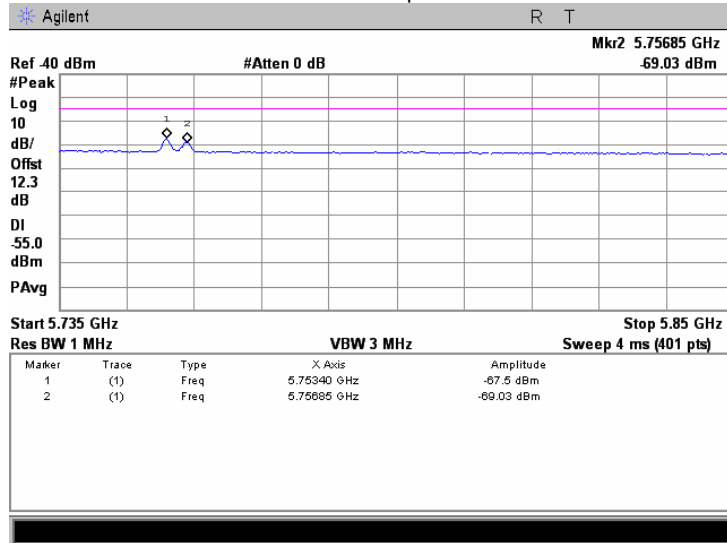


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Conducted emissions at band edges</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>	12/04/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 48 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

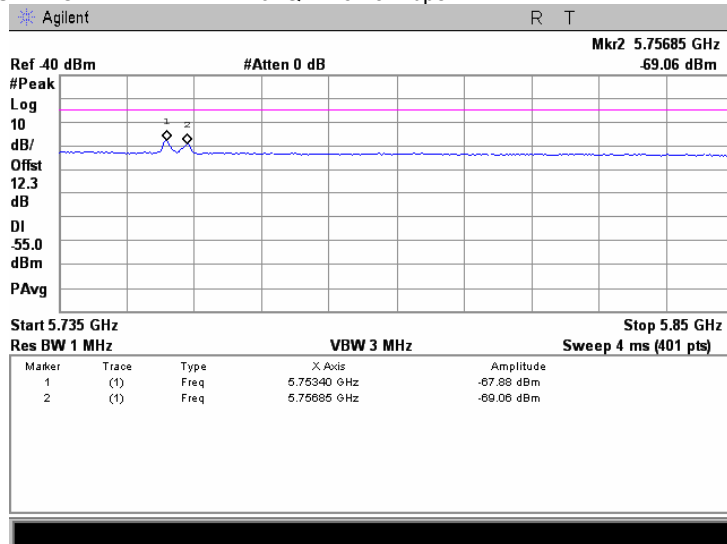
Plot 7.4.59 Conducted spurious emission measurements in the frequency range 5735 – 5850 MHz

CARRIER FREQUENCY 5715 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: BPSK 3.25 Mbps



Plot 7.4.60 Conducted spurious emission measurements in the frequency range 5735 – 5850 MHz

CARRIER FREQUENCY 5715 MHz  
CHANNEL BANDWIDTH 5 MHz  
MODULATION: 64QAM 32.5 Mbps





<b>Test specification:</b> FCC section 15.407(g), Frequency stability	
<b>Test procedure:</b> Section 2.1055	
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS
<b>Date:</b> 12/10/2008	
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa
<b>Relative Humidity:</b> 60 %	
<b>Power Supply:</b> 120 VAC	
<b>Remarks:</b>	

## 7.5 Frequency stability test

### 7.5.1 General

This test was performed to measure frequency stability of transmitter RF carrier. Specification test limits are given in Table 7.5.1.

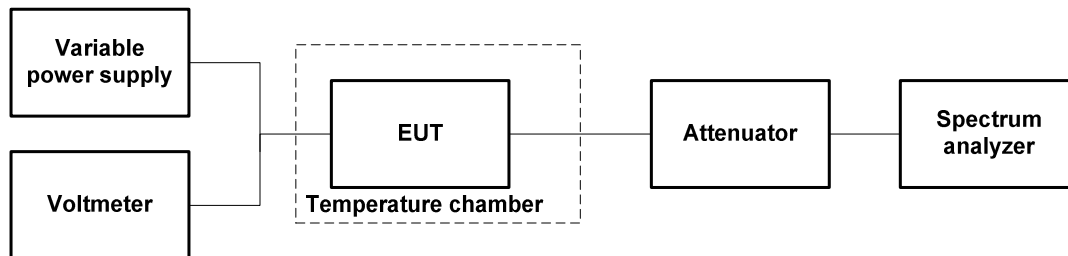
Table 7.5.1 Frequency stability limits

Assigned frequency band, MHz	Maximum allowed frequency displacement
5470 - 5725	Manufacturers of U-NII devices are responsible for ensuring frequency stability such that an emission is maintained within the band of operation under all conditions of normal operation as specified in the users manual

### 7.5.2 Test procedure

- 7.5.2.1 The EUT was set up as shown in Figure 7.5.1, energized and its proper operation was checked.
- 7.5.2.2 The EUT power was turned off. Temperature within test chamber was set to the required one and a period of time sufficient to stabilize all of the oscillator circuit components was allowed.
- 7.5.2.3 The EUT was powered on and carrier frequency was measured on the modulation slope at -27 dBm level at start up moment and then after 2, 5 and 10 minutes. The EUT was powered off.
- 7.5.2.4 The above procedure was repeated at the rest of the test temperatures and voltages as provided in Table 7.5.2, Table 7.5.3.
- 7.5.2.5 Frequency displacement was calculated and compared with the limit as provided in Table 7.5.2, Table 7.5.3.

Figure 7.5.1 Frequency stability test setup





HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability	
<b>Test procedure:</b> Section 2.1055	
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS
<b>Date:</b> 12/10/2008	
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa
<b>Relative Humidity:</b> 60 %	
<b>Power Supply:</b> 120 VAC	
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain	

Table 7.5.2 Frequency stability test results

ASSIGNID FREQUENCY BAND: 5470 - 5725 MHz  
 NOMINAL POWER VOLTAGE: 120 VAC  
 TEMPERATURE STABILIZATION PERIOD: 20 min  
 POWER DURING TEMPERATURE TRANSITION: Off  
 SPECTRUM ANALYZER MODE: Peak 100 Power averaging  
 RESOLUTION BANDWIDTH: 1000 kHz  
 VIDEO BANDWIDTH: 3000 kHz  
 CHANNEL BANDWIDTH / MODULATION: 20 MHz / 64QAM, 130Mbps (as worst case at normal steady state condition)

Temperature, °C	Voltage, V	Frequency, MHz				Band edge limit, MHz	Margin, MHz*	Verdict
		Start up	2 <sup>nd</sup> min	5 <sup>th</sup> min	10 <sup>th</sup> min			
<b>Low frequency:</b>								
-35	Nominal	5471.1750	5471.6000	5471.5125	5471.4250	5470	1.1750	Pass
20	Nominal +15%	5470.9000	5471.1375	5471.1500	5471.2250		0.9000	
20	Nominal	5470.9250	5471.2580	5471.3500	5471.4625		0.9250	
20	Nominal -15%	5470.8250	5470.9875	5471.1250	5471.2375		0.8250	
60	Nominal	5472.0000	5472.3500	5472.6500	5472.9875		2.0000	
<b>Mid first frequency:</b>								
-35	Nominal	5598.9875	5598.9000	5599.0000	5595.9625	5600	1.0000	Pass
20	Nominal +15%	5598.3500	5598.1875	5598.1875	5598.1625		1.6500	
20	Nominal	5598.1250	5598.4250	5598.5320	5598.5750		1.4250	
20	Nominal -15%	5598.5000	5598.5375	5598.6000	5598.6500		1.3500	
60	Nominal	5598.1000	5597.9125	5597.8750	5597.7625		1.9000	
<b>Mid second frequency (IC only):</b>								
-35	Nominal	5650.8625	5650.9500	5650.8500	5650.8125	5650	0.8125	Pass
20	Nominal +15%	5651.2250	5651.2625	5651.3750	5651.2875		1.2250	
20	Nominal	5650.9500	5651.1520	5651.2350	5651.2500		0.9500	
20	Nominal -15%	5651.2125	5651.2375	5651.3875	5651.3975		1.2125	
60	Nominal	5651.5250	5651.6375	5651.7500	5651.8500		1.5250	
<b>High frequency:</b>								
-35	Nominal	5723.6000	5723.5875	5723.6625	5723.7500	5725	1.2500	Pass
20	Nominal +15%	5723.4625	5723.0625	5723.1375	5723.1750		1.5375	
20	Nominal	5723.2500	5723.4850	5723.5100	5723.5250		1.4750	
20	Nominal -15%	5723.4500	5723.3000	5723.5250	5723.3375		1.4750	
60	Nominal	5722.7750	5722.6875	5722.7125	5722.6755		2.2250	

\* - Margin is an absolute frequency delta between the edge of assigned frequency band and frequency in which the spurious emissions drops below the limit -27 dBm/MHz

Reference numbers of test equipment used

HL 0493	HL 1194	HL 2780	HL 3175	HL 3233	HL 3286		
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Full description is given in Appendix A.

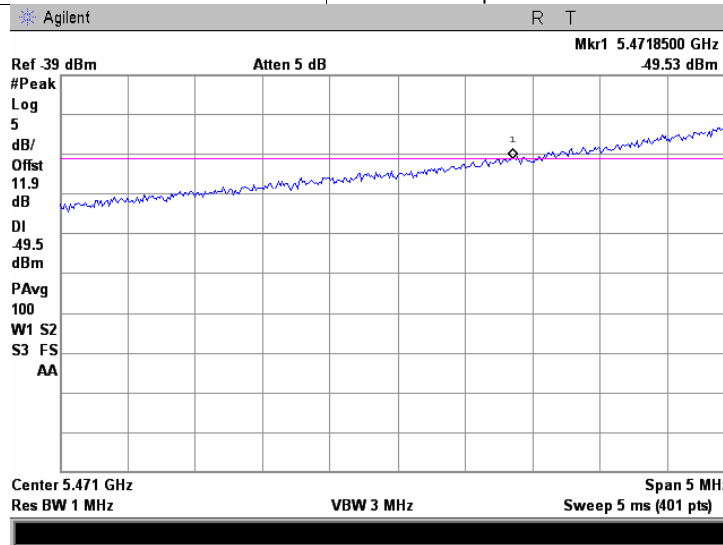


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

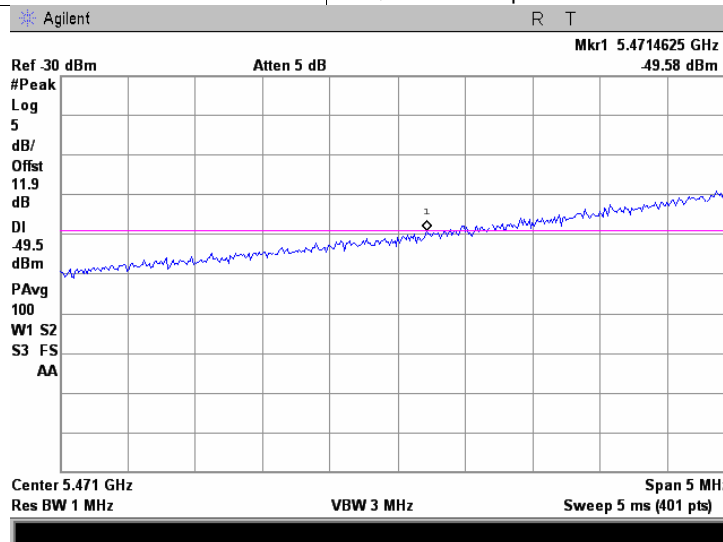
Plot 7.5.1 Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5470
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.2. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5470
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps

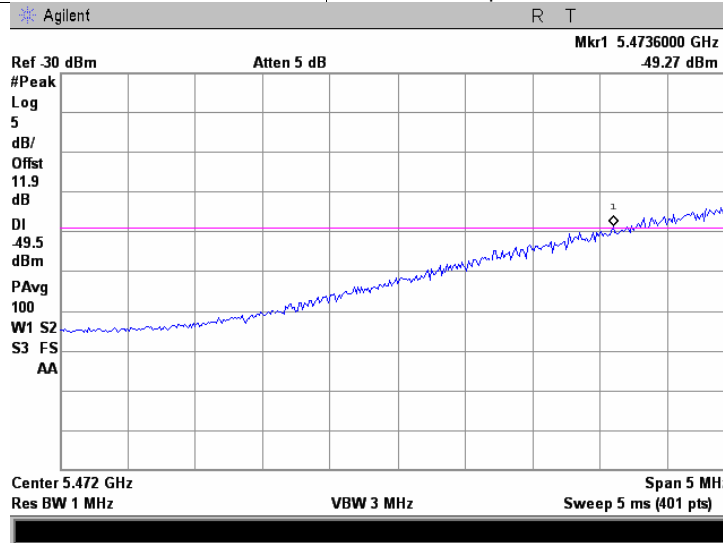




<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

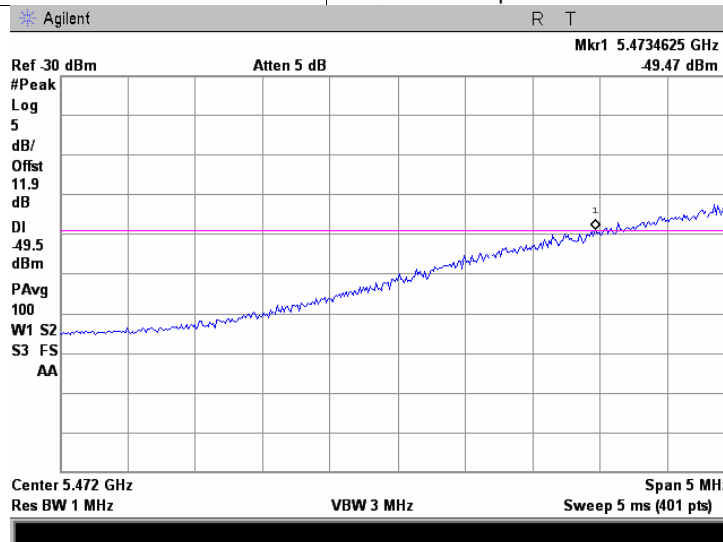
Plot 7.5.3. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5470
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	BPSK / 6.5 Mbps



Plot 7.5.4. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5470
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	64QAM / 65 Mbps





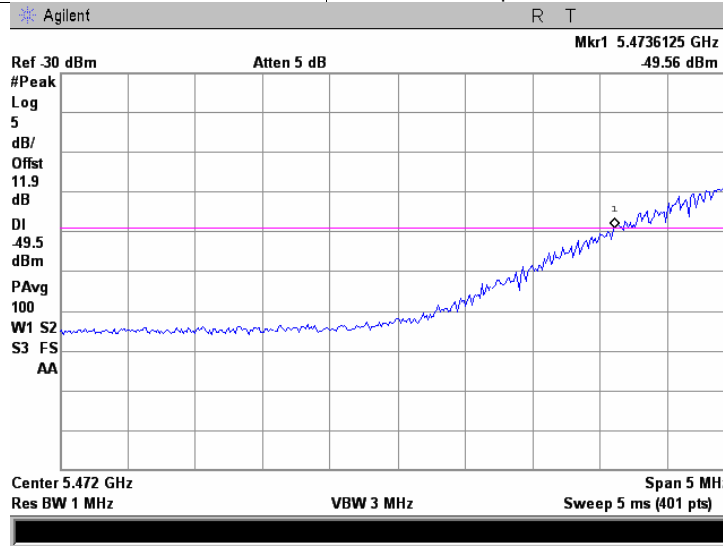


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

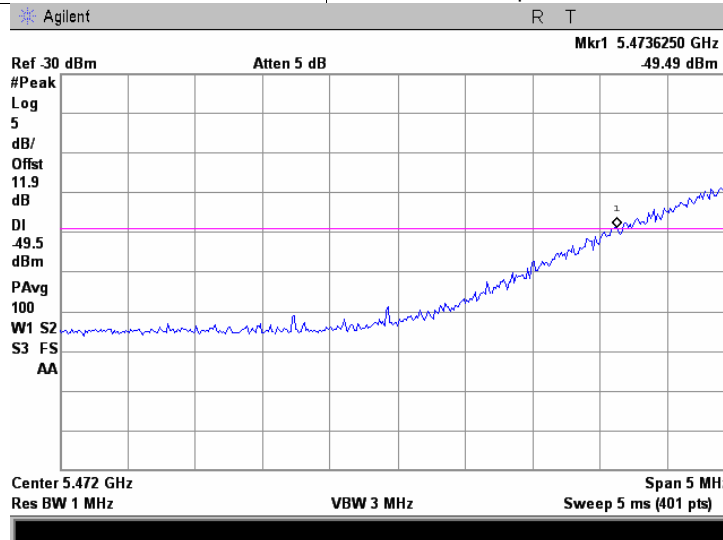
Plot 7.5.5. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5470
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	BPSK / 3.25 Mbps



Plot 7.5.6. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5470
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	64QAM / 32.5 Mbps



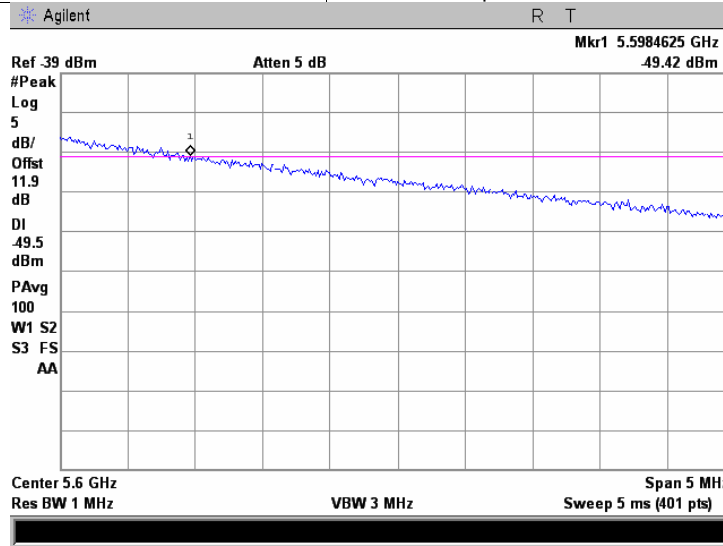


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

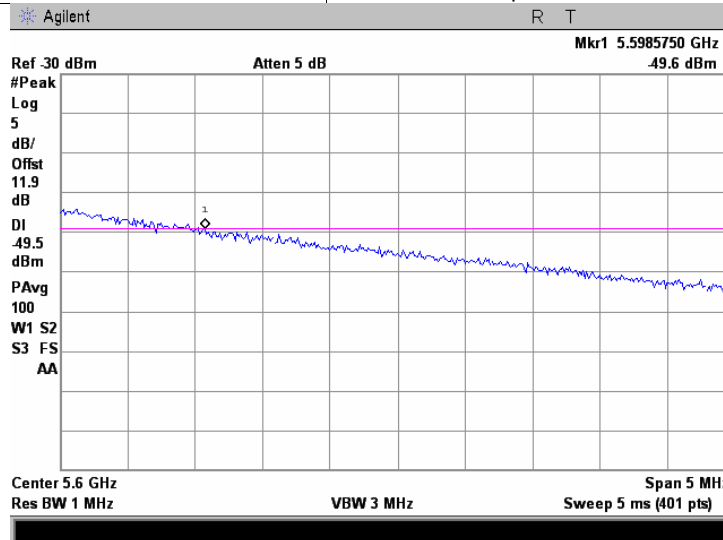
Plot 7.5.7. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5600
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.8. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5600
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps



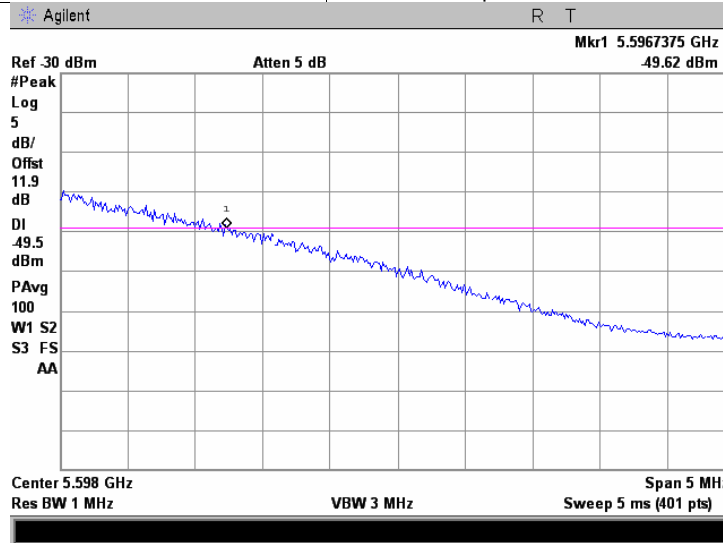


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

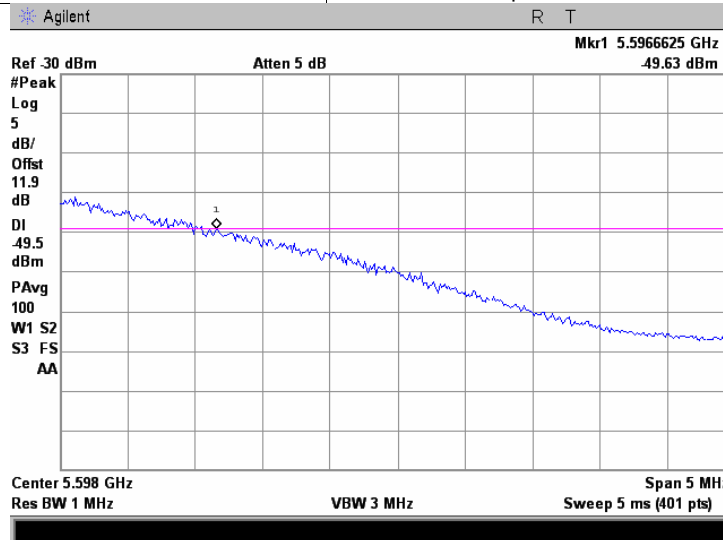
Plot 7.5.9. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5600
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.10. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5600
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps



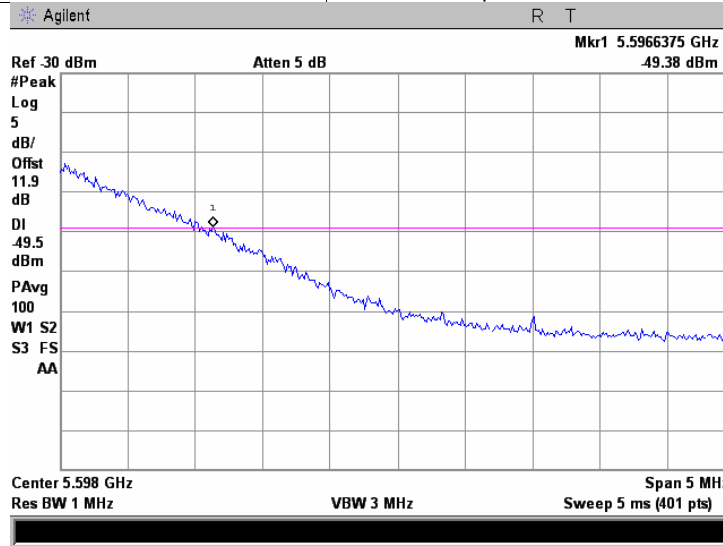


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

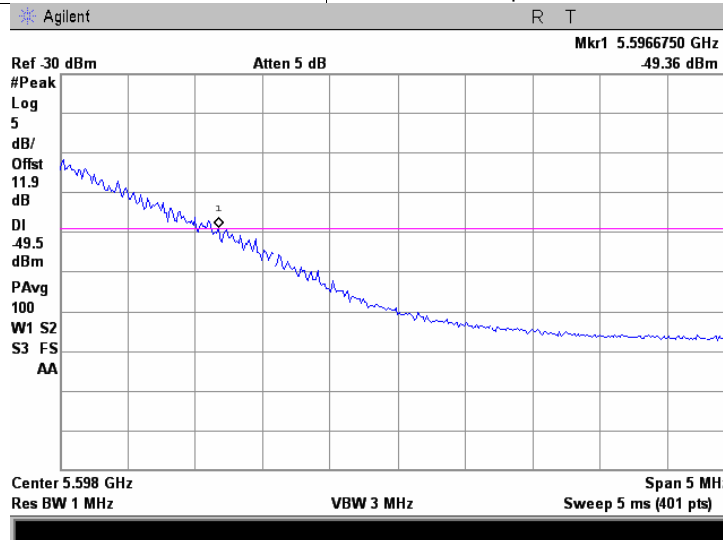
Plot 7.5.11. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5600
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.12. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5600
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps



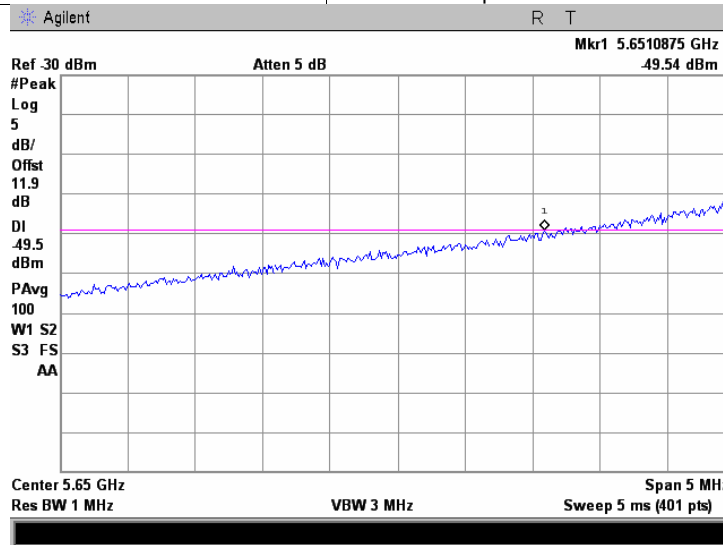


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

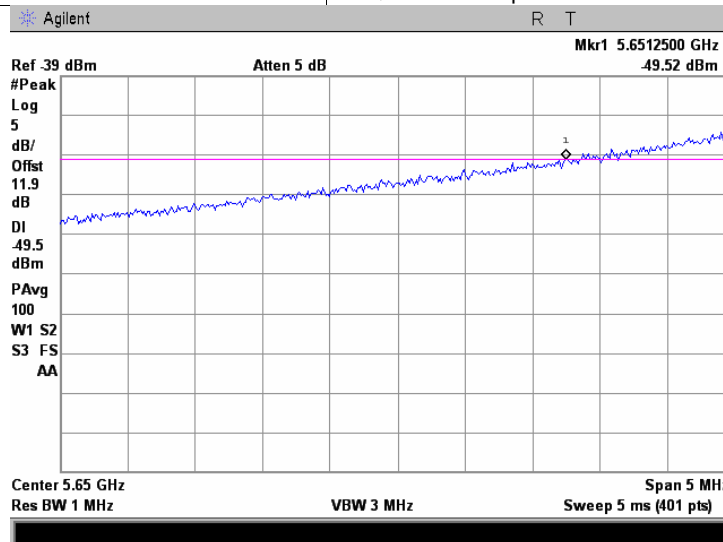
Plot 7.5.13. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5650
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.14. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5650
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps



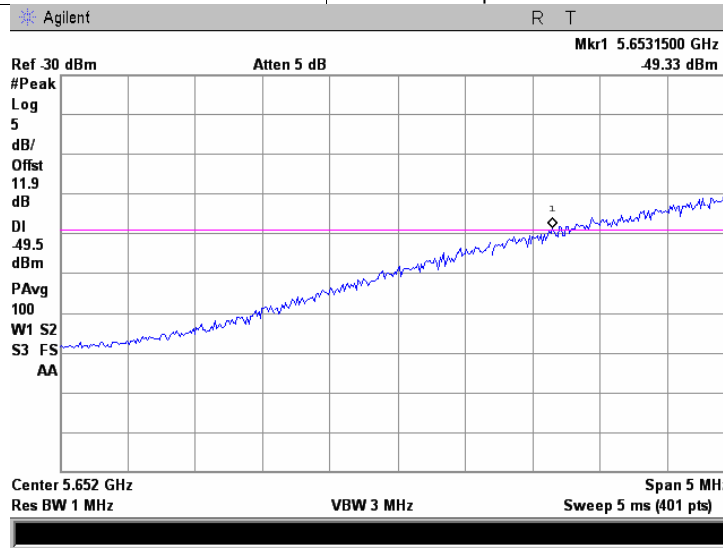


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

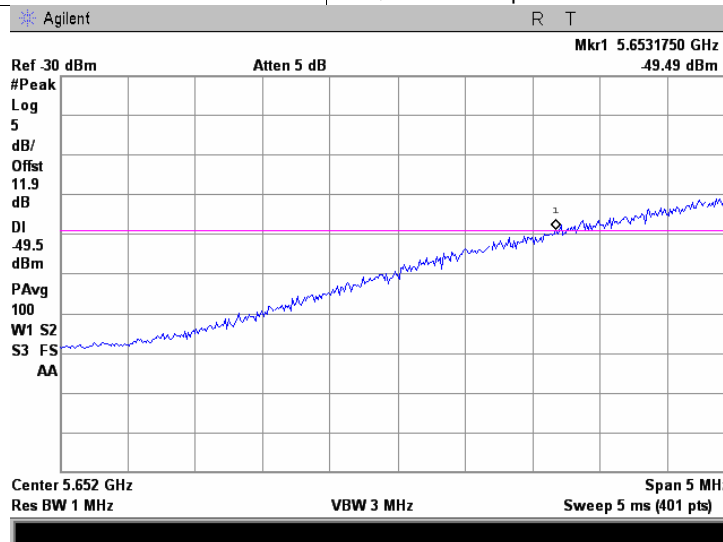
Plot 7.5.15. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5650
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.16. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5650
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps

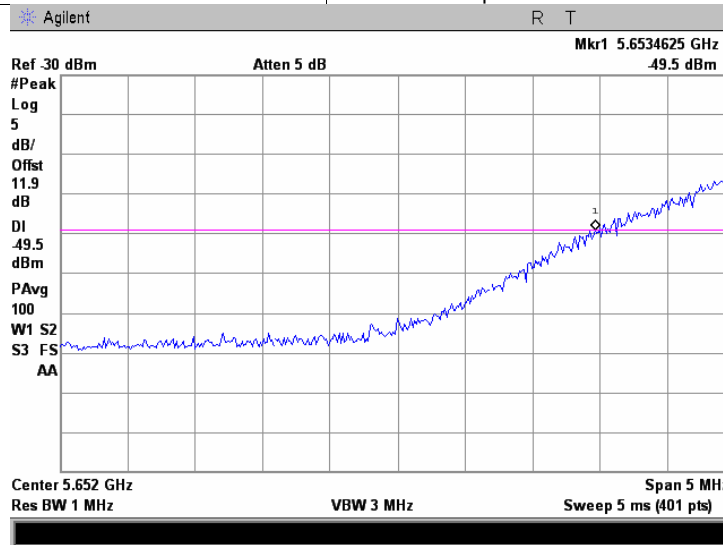




<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

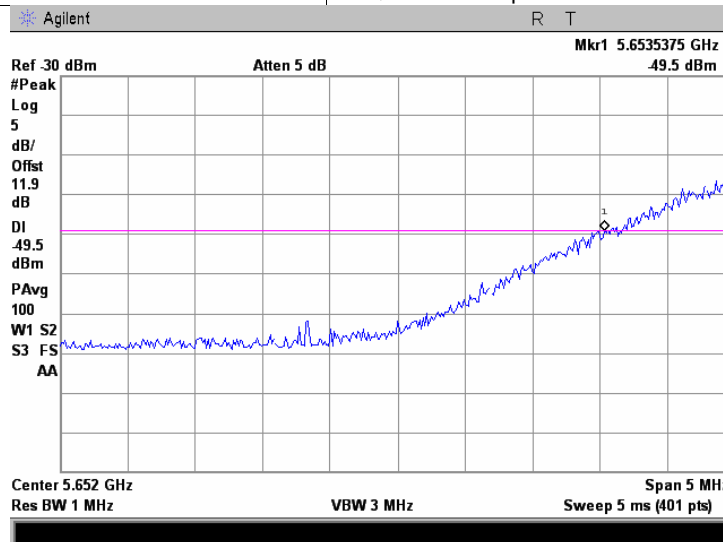
Plot 7.5.17. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5650
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.18. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5650
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps



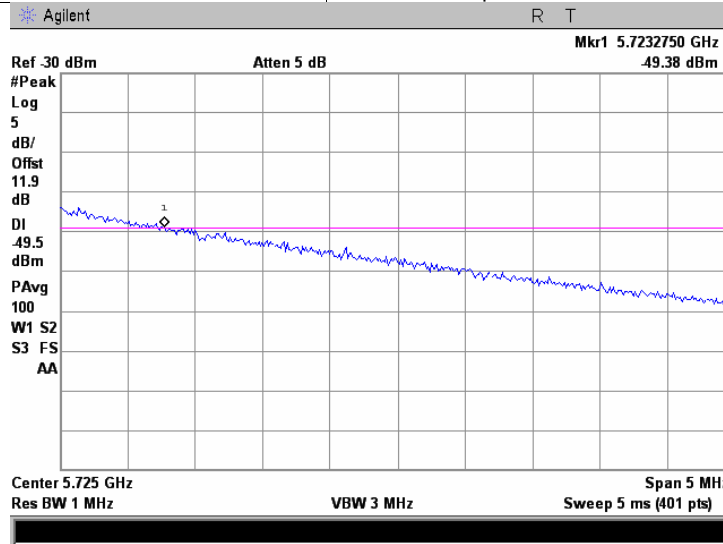


HERMON LABORATORIES

<b>Test specification:</b>	<b>FCC section 15.407(g), Frequency stability</b>		
<b>Test procedure:</b>	Section 2.1055		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	12/10/2008		
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

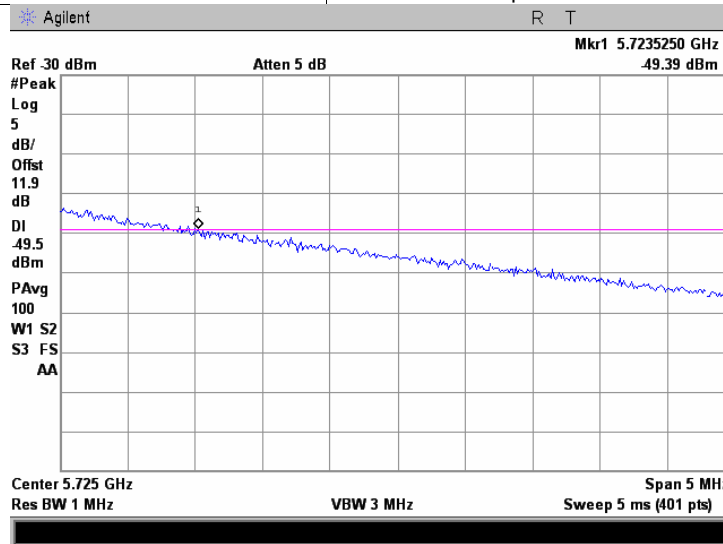
Plot 7.5.19. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5725
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.20. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5725
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps



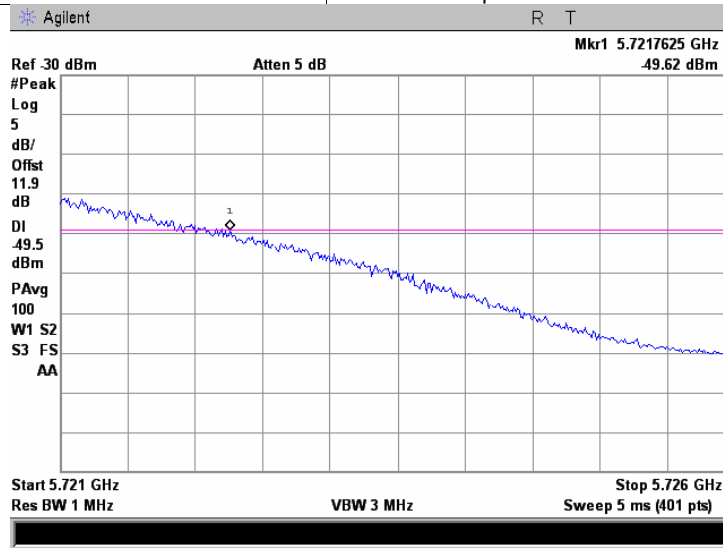




<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

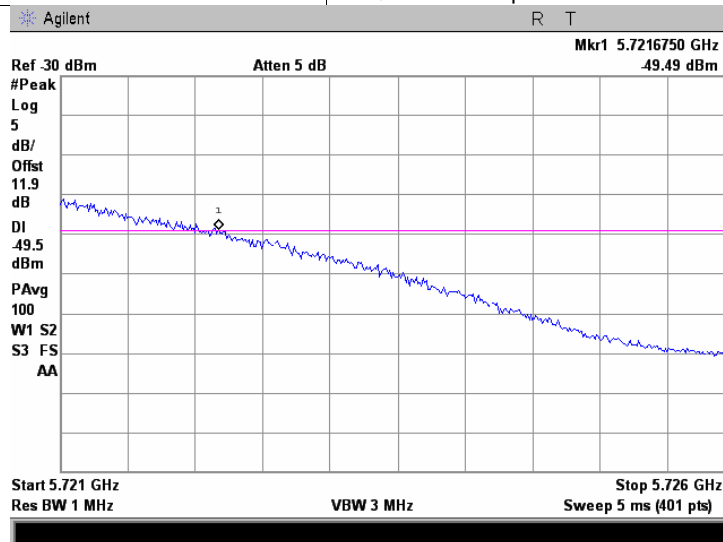
Plot 7.5.21. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5725
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.22. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5725
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps



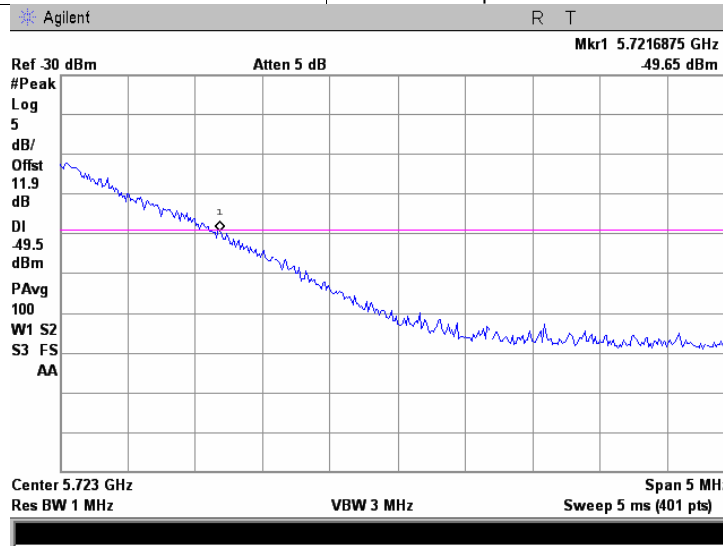


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

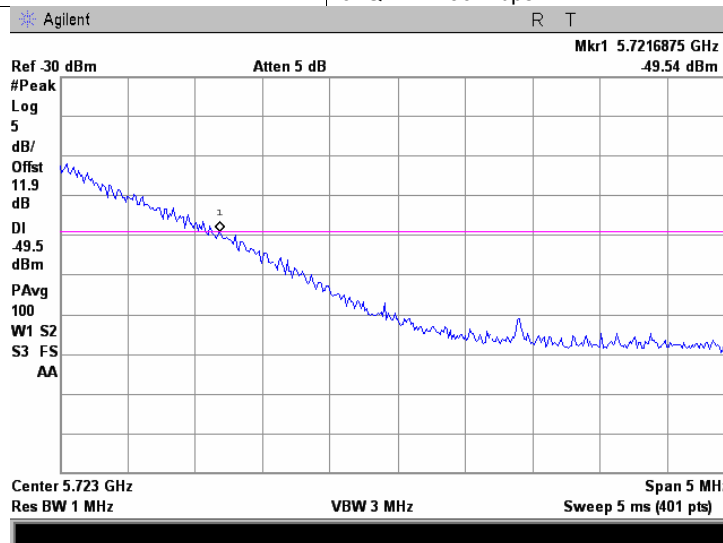
Plot 7.5.23. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5725
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.24. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5725
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps





HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability	
<b>Test procedure:</b> Section 2.1055	
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS
<b>Date:</b> 12/10/2008	
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa
<b>Relative Humidity:</b> 60 %	
<b>Power Supply:</b> 120 VAC	
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain	

Table 7.5.3 Frequency stability test results

ASSIGNID FREQUENCY BAND: 5470 - 5725 MHz  
 NOMINAL POWER VOLTAGE: 120 VAC  
 TEMPERATURE STABILIZATION PERIOD: 20 min  
 POWER DURING TEMPERATURE TRANSITION: Off  
 SPECTRUM ANALYZER MODE: Peak 100 Power averaging  
 RESOLUTION BANDWIDTH: 1000 kHz  
 VIDEO BANDWIDTH: 3000 kHz  
 CHANNEL BANDWIDTH / MODULATION: 20 MHz / 64QAM, 130Mbps (as worst case at normal steady state condition)

Temperature, °C	Voltage, V	Frequency, MHz				Band edge limit, MHz	Margin, MHz	Verdict
		Start up	2 <sup>nd</sup> min	5 <sup>th</sup> min	10 <sup>th</sup> min			
<b>Low frequency:</b>								
-35	Nominal	5472.2820	5471.7170	5471.8070	5471.8020	5470	1.7170	Pass
20	Nominal +15%	5472.0670	5472.0420	5472.0620	5472.0720		2.0420	
20	Nominal	5471.9625	5472.2500	5472.2000	5471.9375		1.9375	
20	Nominal -15%	5471.9570	5472.1170	5472.0570	5472.0920		1.9570	
60	Nominal	5472.6170	5472.8870	5473.0420	5473.1920		2.6170	
<b>Mid frequency:</b>								
-35	Nominal	5598.8670	5598.8370	5598.8760	5598.9070	5600	1.0930	Pass
20	Nominal +15%	5598.2720	5598.1670	5598.1570	5598.1670		1.7280	
20	Nominal	5598.6820	5598.6720	5598.5320	5598.5125		1.3180	
20	Nominal -15%	5598.4920	5598.4170	5598.3270	5598.4420		1.5080	
60	Nominal	5598.4470	5598.2670	5598.1470	5598.0770		1.5530	
<b>Mid frequency:</b>								
-35	Nominal	5651.1120	5651.1570	5651.1370	5651.2120	5650	1.1120	Pass
20	Nominal +15%	5651.1672	5651.7320	5651.7920	5651.7720		1.1672	
20	Nominal	5651.4370	5651.5270	5651.5920	5651.5375		1.4370	
20	Nominal -15%	5651.4920	5651.5520	5651.5770	5651.5720		1.4920	
60	Nominal	5651.8070	5651.9070	5652.0120	5652.0370		1.8070	
<b>High frequency:</b>								
-35	Nominal	5723.8070	5723.6700	5723.7120	5723.7270	5725	1.1930	Pass
20	Nominal +15%	5723.1020	5723.1470	5723.0570	5723.0770		1.8530	
20	Nominal	5723.0770	5723.1820	5723.2670	5723.2625		1.7330	
20	Nominal -15%	5723.1320	5723.0220	5723.0420	5723.0620		1.8680	
60	Nominal	5722.6670	5722.6070	5722.6520	5722.5950		2.3330	

\* - Margin is an absolute frequency delta between the edge of assigned frequency band and frequency in which the spurious emissions drops below the limit -27 dBm/MHz

Reference numbers of test equipment used

HL 0493	HL 1194	HL 2780	HL 3175	HL 3233	HL 3286		
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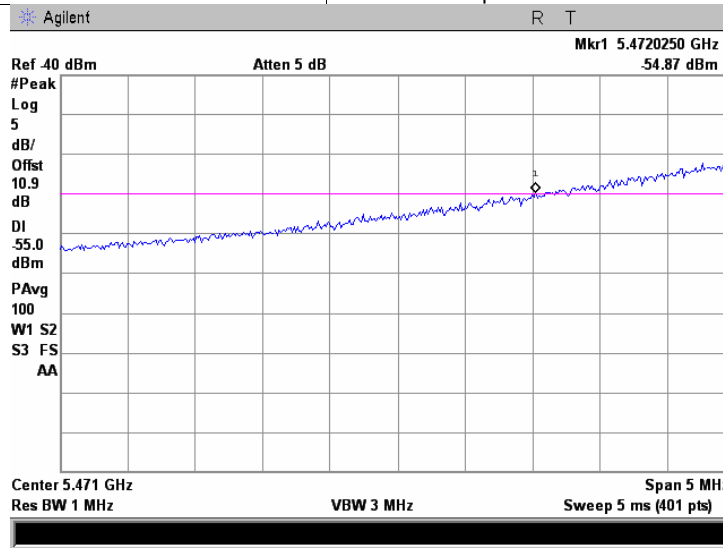
Full description is given in Appendix A.



<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

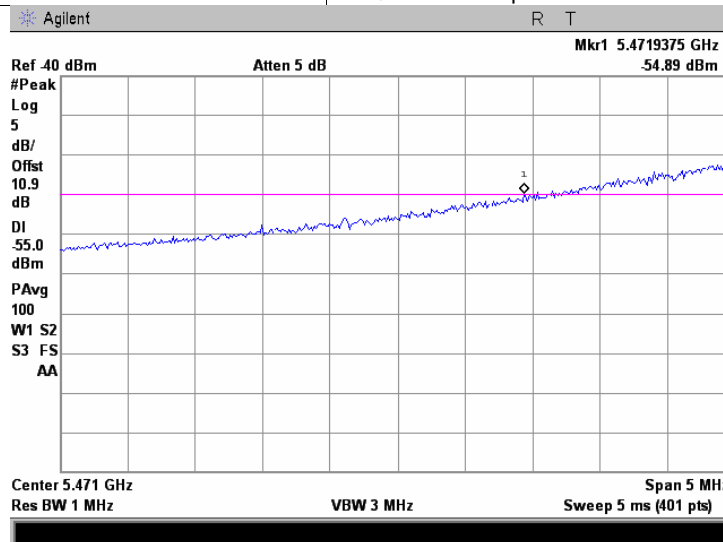
Plot 7.5.25 Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5470
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.26. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5470
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps



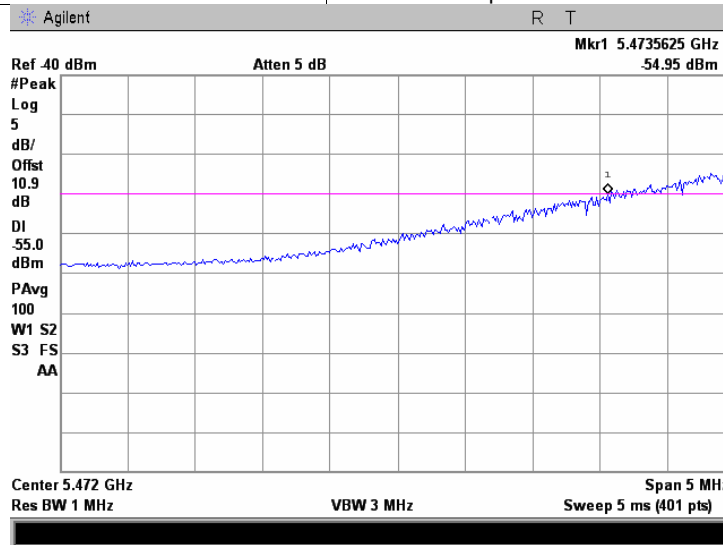


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

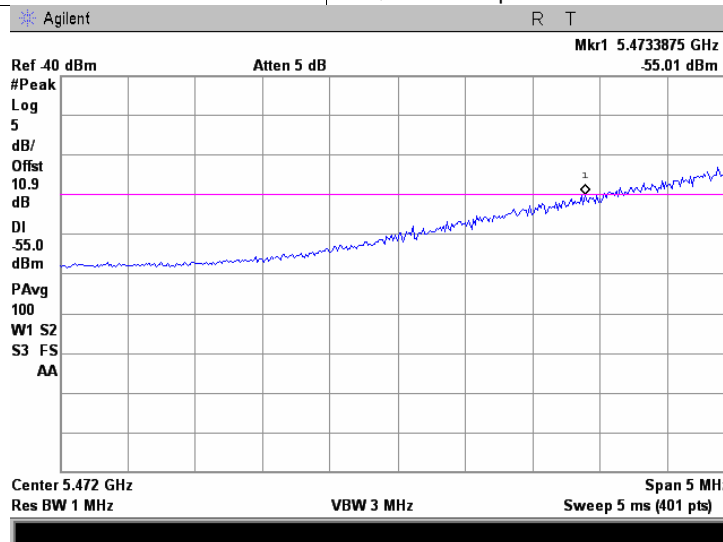
Plot 7.5.27. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5470
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	BPSK / 6.5 Mbps



Plot 7.5.28. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5470
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	64QAM / 65 Mbps



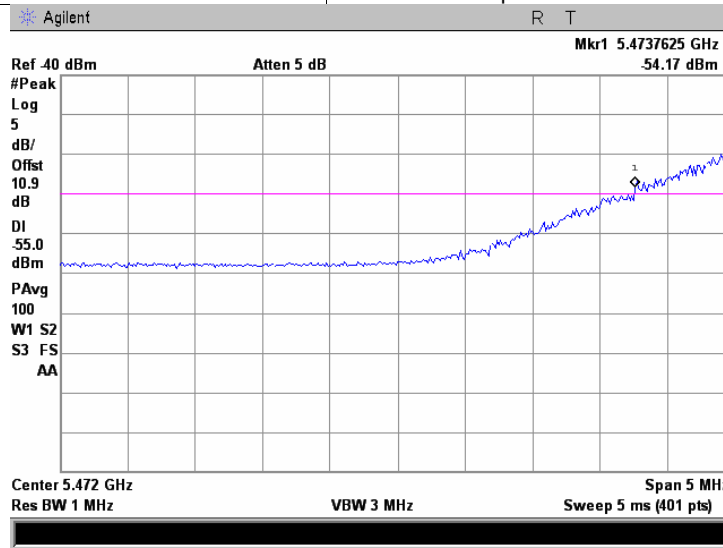


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

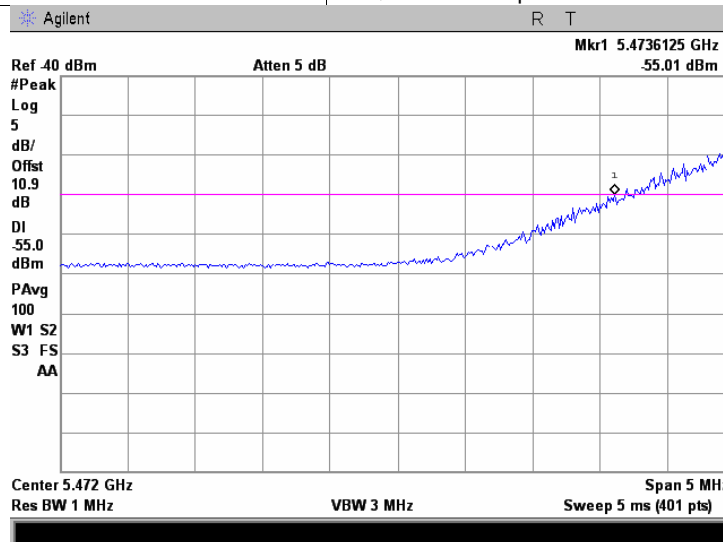
Plot 7.5.29. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5470
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	BPSK / 3.25 Mbps



Plot 7.5.30. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5470
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	64QAM / 32.5 Mbps



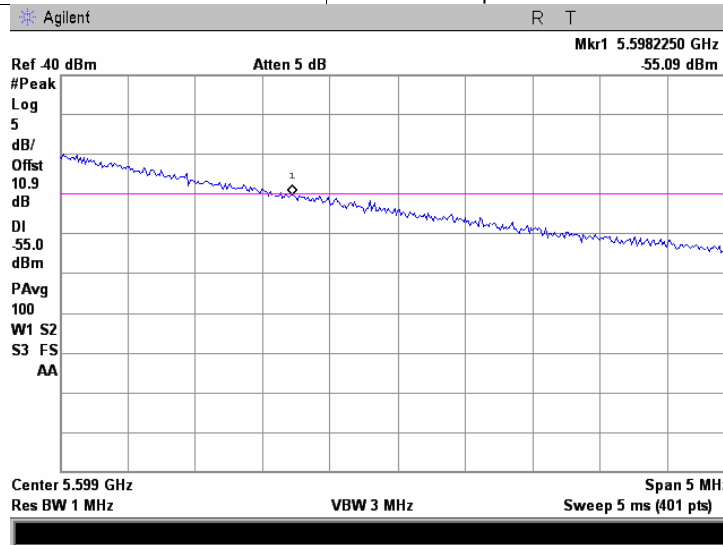


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

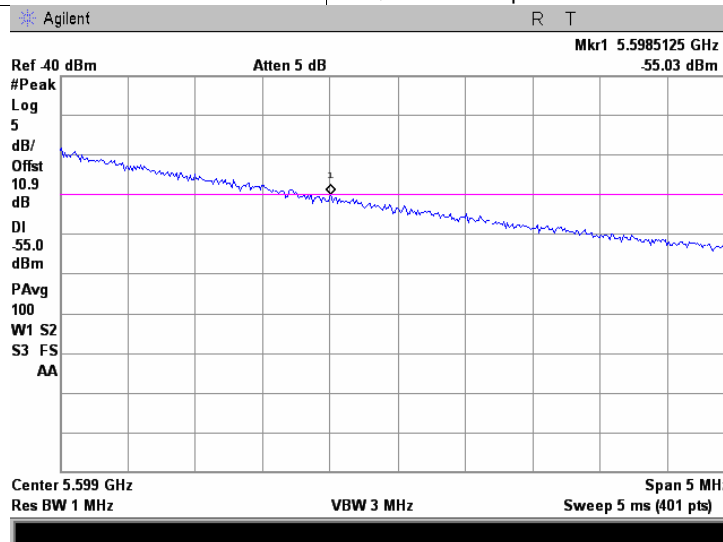
Plot 7.5.31. Band edge emissions at normal conditions at at 10th minute

FREQUENCY EDGE	5600
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.32. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5600
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps



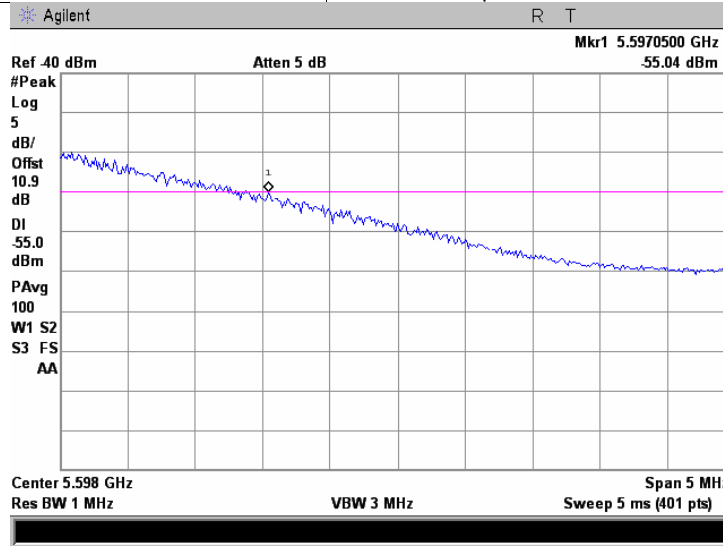


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

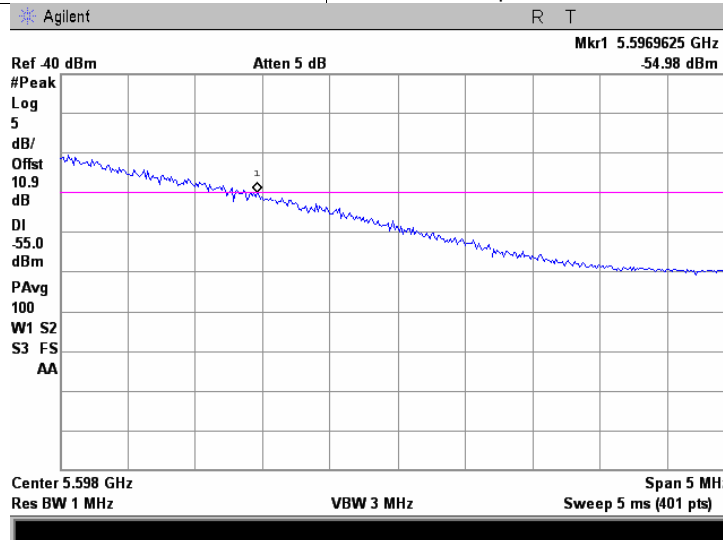
Plot 7.5.33. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5600
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	BPSK / 65 Mbps



Plot 7.5.34. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5600
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	64QAM / 65 Mbps





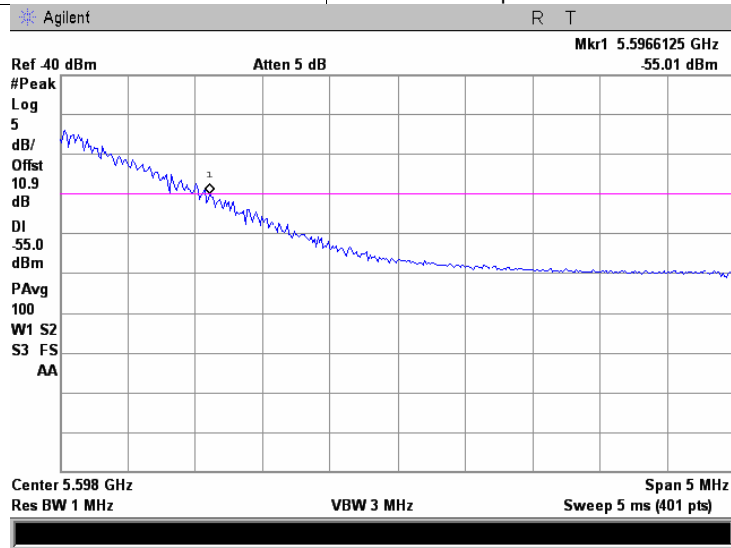


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

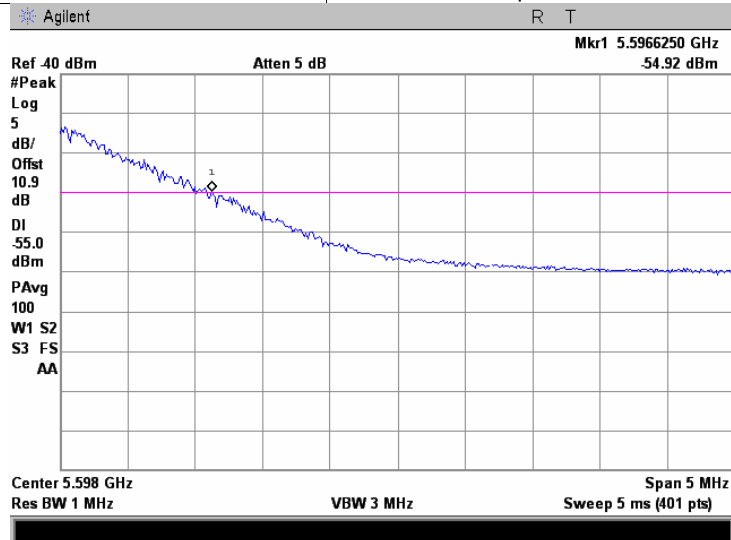
Plot 7.5.35. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5600
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	BPSK / 3.25 Mbps



Plot 7.5.36. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5600
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	64QAM / 32.5 Mbps



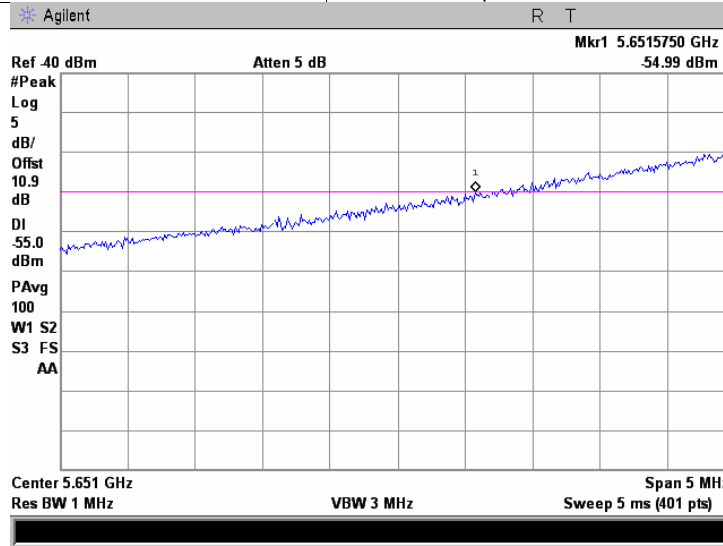


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

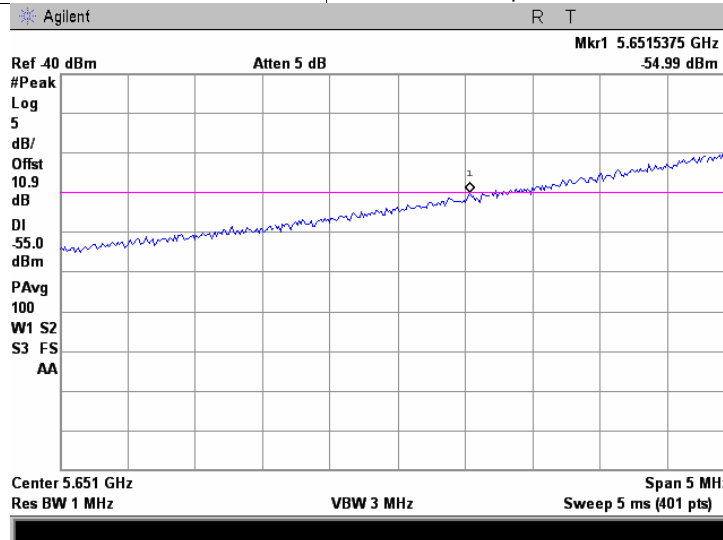
Plot 7.5.37. Band edge emissions at normal conditions at at 10th minute

FREQUENCY EDGE	5650
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.38. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5650
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps



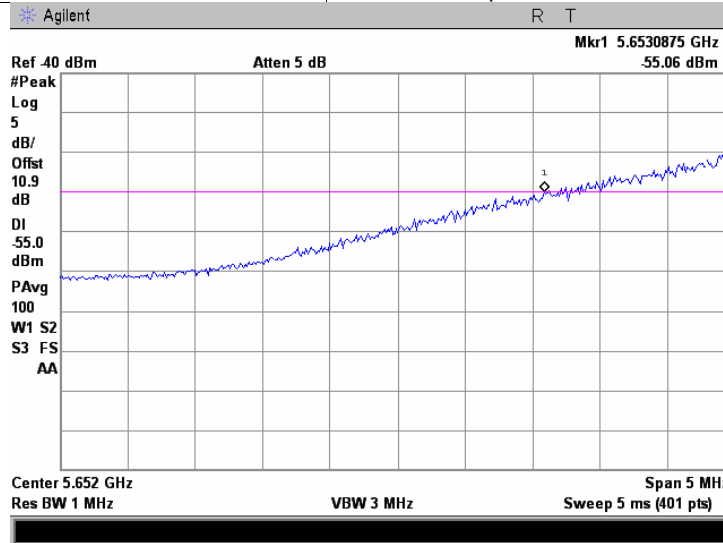


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

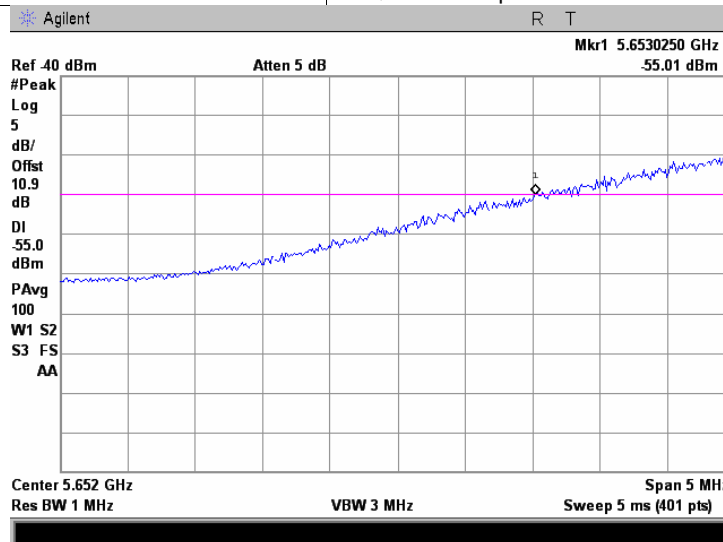
Plot 7.5.39. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5650
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	BPSK / 6.5 Mbps



Plot 7.5.40. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5650
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	64QAM / 65 Mbps



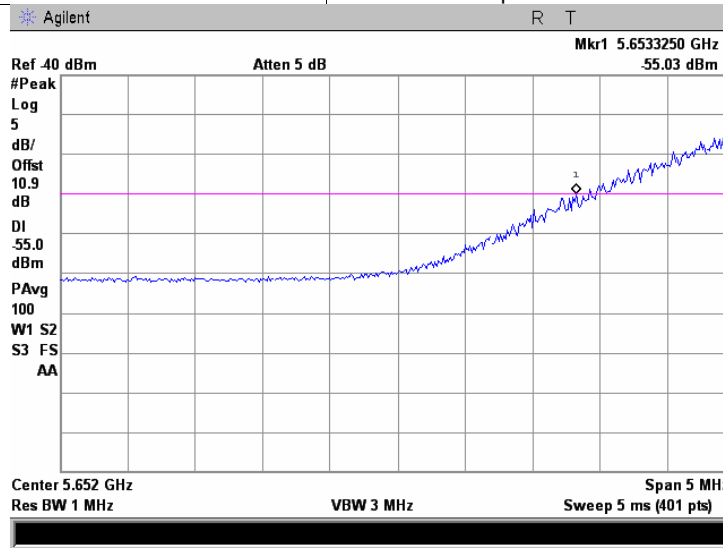


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

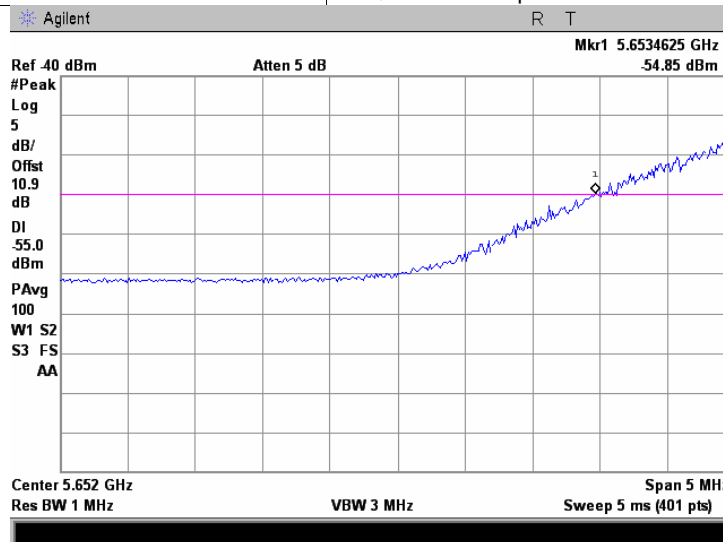
Plot 7.5.41. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5650
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	BPSK / 3.25 Mbps



Plot 7.5.42. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5650
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	64QAM / 32.5 Mbps



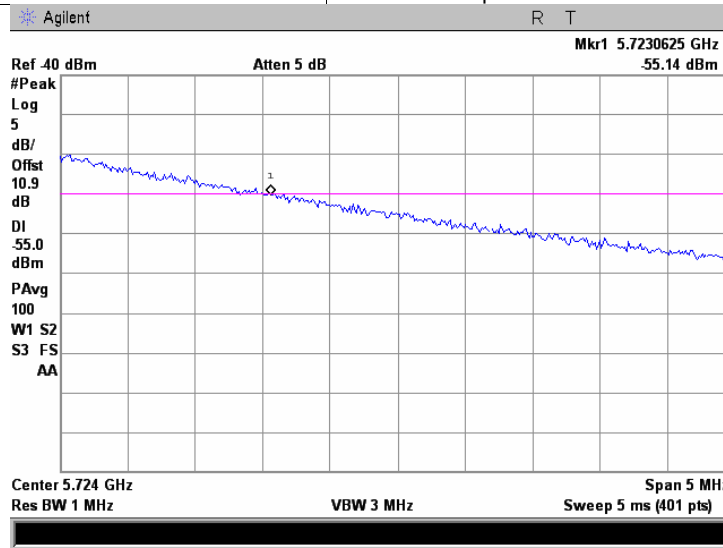


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

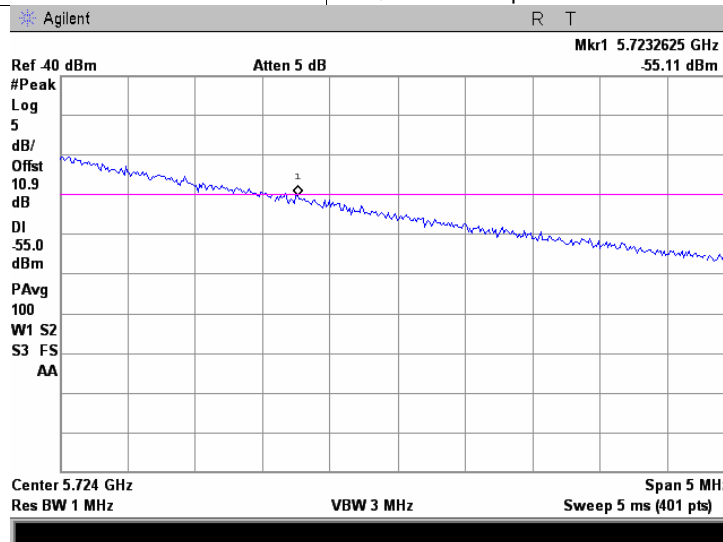
Plot 7.5.43. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5725
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	BPSK / 13 Mbps



Plot 7.5.44. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5725
CHANNEL BANDWIDTH	20 MHz
MODULATION / BIT RATE	64QAM / 130 Mbps



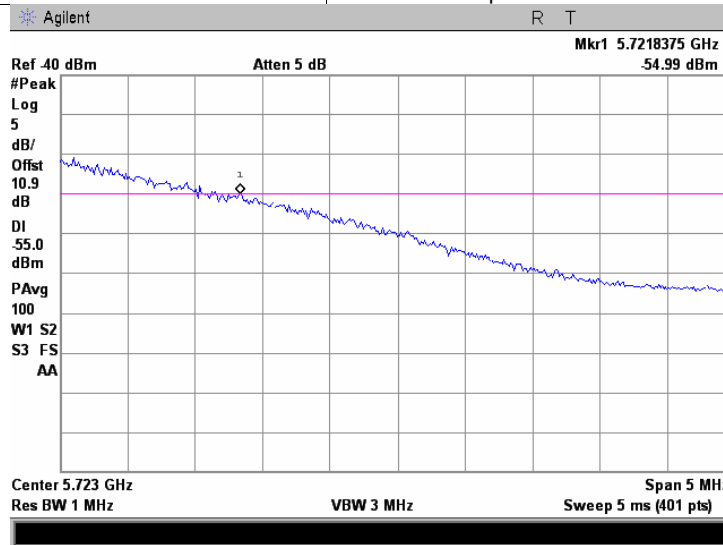


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

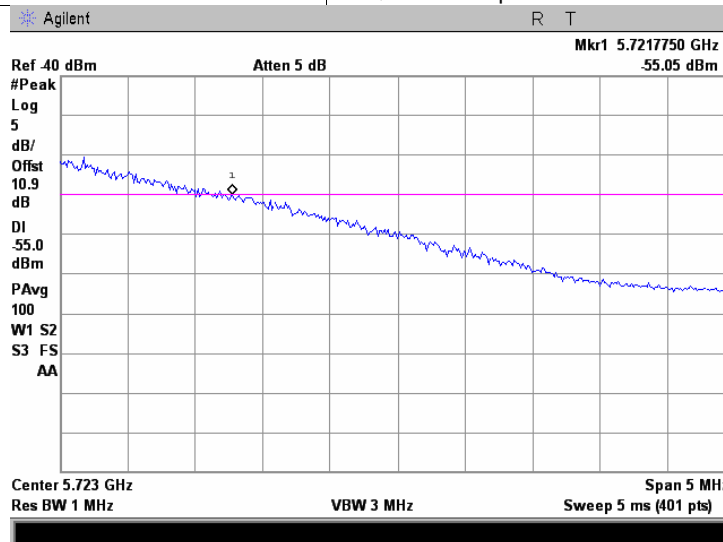
Plot 7.5.45. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5725
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	BPSK / 6.5 Mbps



Plot 7.5.46. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5725
CHANNEL BANDWIDTH	10 MHz
MODULATION / BIT RATE	64QAM / 65 Mbps



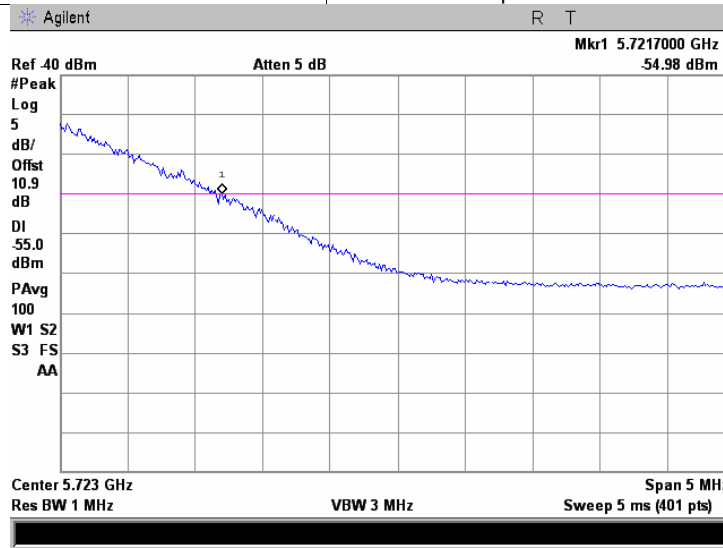


HERMON LABORATORIES

<b>Test specification:</b> FCC section 15.407(g), Frequency stability			
<b>Test procedure:</b> Section 2.1055			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/10/2008			
<b>Temperature:</b> 22°C	<b>Air Pressure:</b> 1013 hPa	<b>Relative Humidity:</b> 60 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

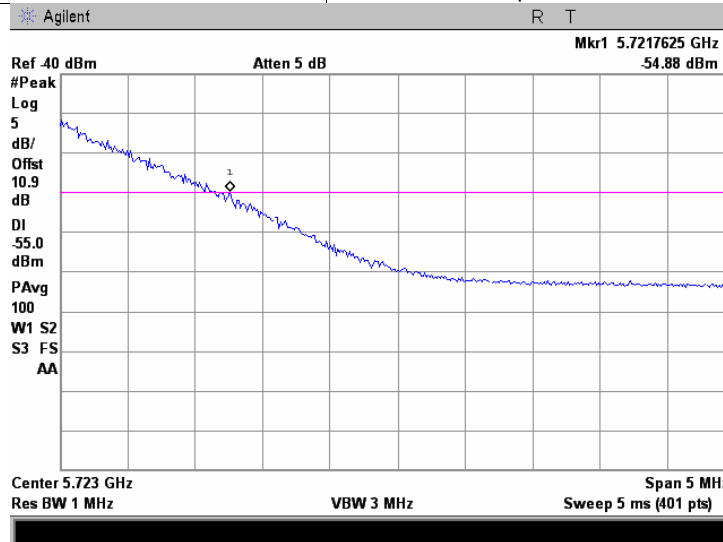
Plot 7.5.47. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5725
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	BPSK / 3.25 Mbps



Plot 7.5.48. Band edge emissions at normal conditions at 10th minute

FREQUENCY EDGE	5725
CHANNEL BANDWIDTH	5 MHz
MODULATION / BIT RATE	64QAM / 32.5 Mbps





<b>Test specification:</b>	<b>FCC Part 15, section 203, RSS-Gen section 7.1.2, Antenna requirements</b>		
<b>Test procedure:</b>	Visual inspection / supplier declaration		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	10/08/2007		
<b>Temperature:</b> 24°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 44 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b>			

### 7.6 Antenna requirements

The EUT was verified for compliance with antenna requirements. A transmitter shall be designed to ensure that no antenna other than that furnished by the responsible party will be used with the device. It may be either permanently attached or employs a unique antenna connector for every antenna proposed for use with the EUT. This requirement does not apply to professionally installed transmitters.

The rationale for compliance with the above requirements was either visual inspection results or supplier declaration. The summary of results is provided in Table 7.6.1.

**Table 7.6.1 Antenna requirements**

Requirement	Rationale	Verdict
The transmitter antenna is permanently attached (integral)	Visual inspection	Comply
The transmitter employs a unique antenna connector	NA	
The transmitter requires professional installation (external)	Visual inspection	



<b>Test specification:</b>	<b>FCC part 15 section 15.207(a), RSS-Gen section 7.2.4, Conducted emission</b>		
<b>Test procedure:</b>	ANSI C63.4, Section 13.1.3		
<b>Test mode:</b>	Compliance	<b>Verdict:</b>	<b>PASS</b>
<b>Date:</b>	12/28/2008		
<b>Temperature:</b> 21°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 44 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b>			

## 7.7 Conducted emissions

### 7.7.1 General

This test was performed to measure common mode conducted emissions at the power port. Specification test limits are given in Table 7.7.1.

**Table 7.7.1 Limits for conducted emissions**

Frequency, MHz	Class B limit, dB(μV)	
	QP	AVRG
0.15 - 0.5	66 - 56*	56 - 46*
0.5 - 5.0	56	46
5.0 - 30	60	50

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

### 7.7.2 Test procedure

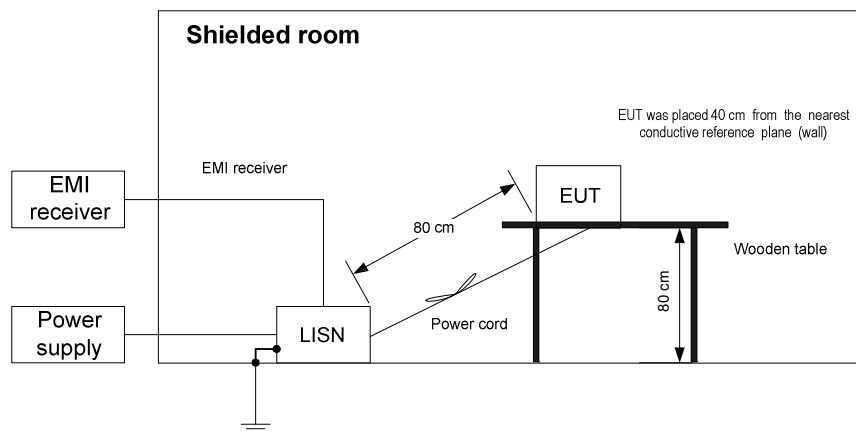
**7.7.2.1** The EUT was set up as shown in Figure 7.7.1, energized and the performance check was conducted.

**7.7.2.2** The measurements were performed at power terminals with the LISN, connected to a spectrum analyzer while unused coaxial connector of the LISN was terminated with 50 Ohm.

**7.7.2.3** The position of the device cables was varied to determine maximum emission level.

**7.7.2.4** The worst test results (the lowest margins) were recorded in Table 7.7.2 and shown in the associated plots.

**Figure 7.7.1 Setup for conducted emission measurements, table-top equipment**





<b>Test specification:</b>	<b>FCC part 15 section 15.207(a), RSS-Gen section 7.2.4, Conducted emission</b>		
<b>Test procedure:</b>	ANSI C63.4, Section 13.1.3		
<b>Test mode:</b>	Compliance	<b>Verdict: PASS</b>	
<b>Date:</b>	12/28/2008		
<b>Temperature:</b> 21°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 44 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b>			

Table 7.7.2 Conducted emission test results

LINE: AC mains  
EUT OPERATING MODE: Transmit @5580 MHz, 20 MHz, CBW 130 Mbps at maximum power  
EUT SET UP: TABLE-TOP  
TEST SITE: SHIELDED ROOM  
FREQUENCY RANGE: 150 kHz - 30 MHz  
RESOLUTION BANDWIDTH: 9 kHz

Frequency, MHz	Peak emission, dB(μV)	Quasi-peak			Average			Line ID	Verdict
		Measured emission, dB(μV)	Limit, dB(μV)	Margin, dB*	Measured emission, dB(μV)	Limit, dB(μV)	Margin, dB*		
0.154650	43.37	39.31	65.77	-26.46	36.02	55.77	-19.75	L1	Pass
0.531245	31.55	30.87	56.00	-25.13	30.60	46.00	-15.40		
3.109260	33.22	32.06	56.00	-23.94	31.04	46.00	-14.96		
3.791626	33.21	32.36	56.00	-23.64	30.87	46.00	-15.13		
0.154780	44.36	39.41	65.77	-26.36	34.66	55.77	-21.11	L2	Pass
0.530325	32.69	31.91	56.00	-24.09	31.46	46.00	-14.54		
1.971482	32.37	31.93	56.00	-24.07	31.25	46.00	-14.75		
3.109233	32.86	32.12	56.00	-23.88	31.17	46.00	-14.83		

\*- Margin = Measured emission - specification limit.

## Reference numbers of test equipment used

HL 0580	HL 1430	HL 1513	HL 2888	HL 3612			
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Full description is given in Appendix A.

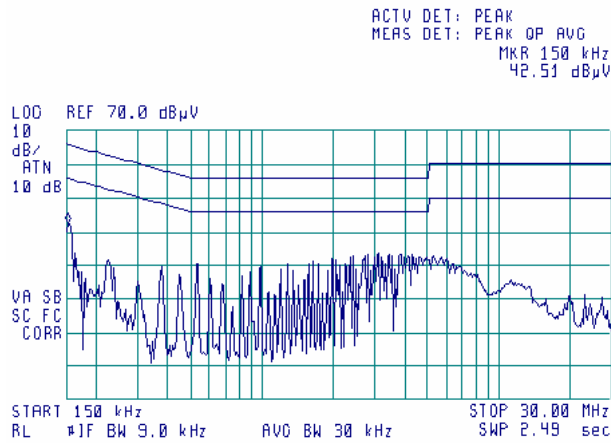


HERMON LABORATORIES

<b>Test specification:</b> FCC part 15 section 15.207(a), RSS-Gen section 7.2.4, Conducted emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/28/2008			
<b>Temperature:</b> 21°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 44 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b>			

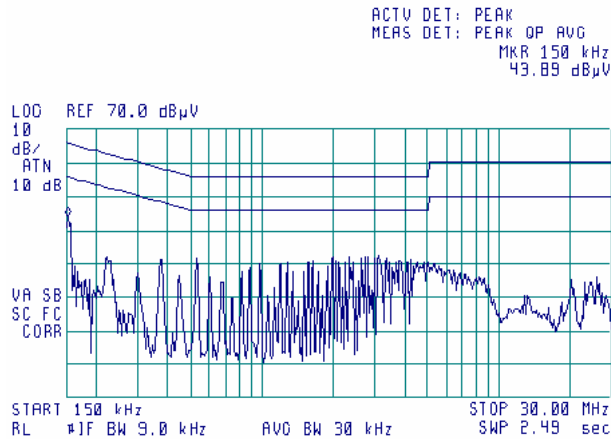
**Plot 7.7.1 Conducted emission measurements**

LINE: L1  
 EUT OPERATING MODE: Transmit  
 LIMIT: QUASI-PEAK, AVERAGE  
 DETECTOR: PEAK



**Plot 7.7.2 Conducted emission measurements**

LINE: L2  
 EUT OPERATING MODE: Transmit  
 LIMIT: QUASI-PEAK, AVERAGE  
 DETECTOR: PEAK



<b>Test specification:</b> RSS-Gen sections 6, 4.10, spurious radiated emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/28/2008			
<b>Temperature:</b> 21°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 44 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b>			

## 7.8 Receiver radiated spurious emission measurements

### 7.8.1 General

This test was performed to measure radiated emissions from the EUT enclosure. Specification test limits are given in Table 7.8.1.

Table 7.8.1 Radiated emission limits

Frequency, MHz	Field strength limit at 3 m test distance, dB( $\mu$ V/m)
30 - 88	40.0
88 - 216	43.5
216 - 960	46.0
Above 960 -3 <sup>rd</sup> harmonic*	54.0

\* - harmonic of the highest frequency the EUT generates, uses, operates or tunes to.

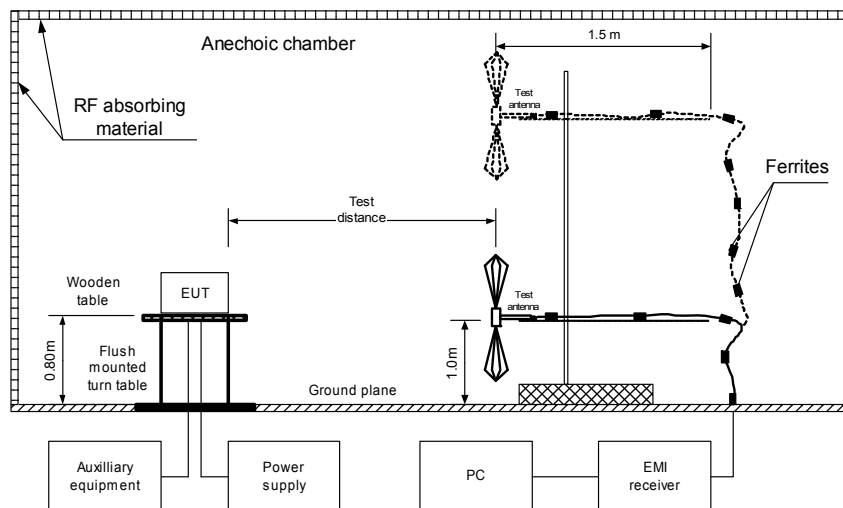
### 7.8.2 Test procedure

7.8.2.1 The EUT was set up as shown in Figure 7.8.1, energized and the performance check was conducted.

7.8.2.2 The specified frequency range was investigated with biconilog antenna connected to 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 and the EUT cables position was varied.

7.8.2.3 The worst test results (the lowest margins) were provided in the associated tables and plots.

Figure 7.8.1 Setup for radiated emission measurements in anechoic chamber, table-top equipment





<b>Test specification:</b> RSS-Gen sections 6, 4.10, spurious radiated emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/28/2008			
<b>Temperature:</b> 21°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 44 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

Table 7.8.2 Radiated emission test results

EUT SET UP: TABLE-TOP  
EUT OPERATING MODE: Receive  
TEST SITE: SEMI ANECHOIC CHAMBER  
TEST DISTANCE: 3 m  
FREQUENCY RANGE: 30 MHz – 1000 MHz  
RESOLUTION BANDWIDTH: 120 kHz

Frequency, MHz	Peak emission, dB( $\mu$ V/m)	Quasi-peak			Antenna polarization	Antenna height, m	Turn-table position**, degrees	Verdict
		Measured emission, dB( $\mu$ V/m)	Limit, dB( $\mu$ V/m)	Margin, dB*				
<b>Mid Rx channel (5580 MHz)</b>								Pass
No emissions were found								

TEST SITE: SEMI ANECHOIC CHAMBER  
TEST DISTANCE: 3 m  
FREQUENCY RANGE: 1000 MHz – 17500 MHz  
RESOLUTION BANDWIDTH: 1000 kHz

Frequency, MHz	Peak emission, dB( $\mu$ V/m)	Average			Antenna polarization	Antenna height, m	Turn-table position**, degrees	Verdict
		Measured emission, dB( $\mu$ V/m)	Limit, dB( $\mu$ V/m)	Margin, dB*				
<b>Mid Rx channel (5580 MHz)</b>								Pass
No emissions were found								

\*- Margin = Measured emission - specification limit.

\*\* - EUT front panel refer to 0 degrees position of turntable.

## Reference numbers of test equipment used

HL 0446	HL 0521	HL 0589	HL 0604	HL 1425	HL 1556	HL 1947	HL 1984
HL 2009	HL 2909						

Full description is given in Appendix A.

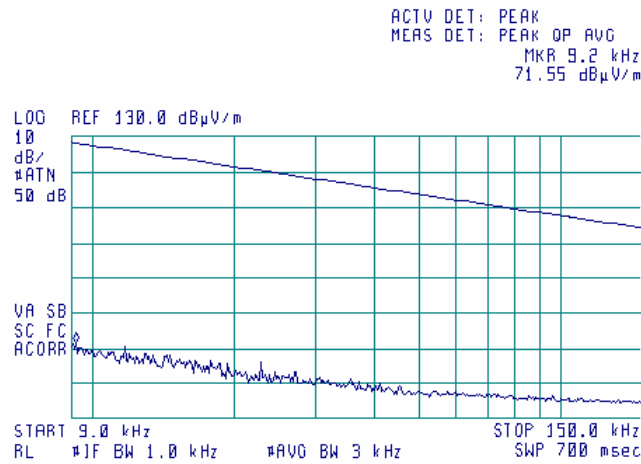


HERMON LABORATORIES

<b>Test specification:</b> RSS-Gen sections 6, 4.10, spurious radiated emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/28/2008			
<b>Temperature:</b> 21°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 44 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

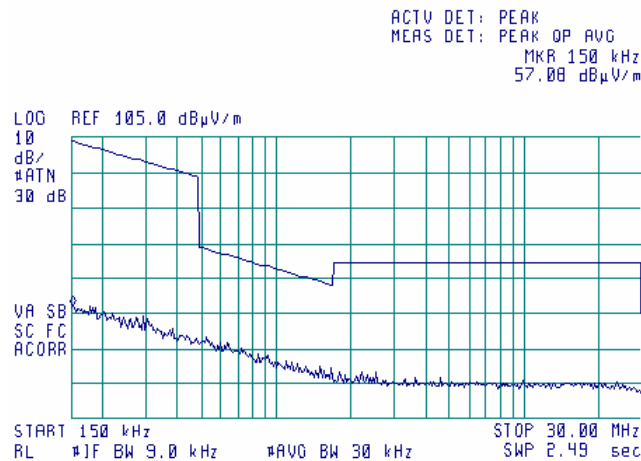
Plot 7.8.1 Radiated emission measurements from 9 to 150 kHz at the mid Rx channel frequency

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



Plot 7.8.2 Radiated emission measurements from 0.15 MHz to 30 MHz at the mid Rx channel frequency

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



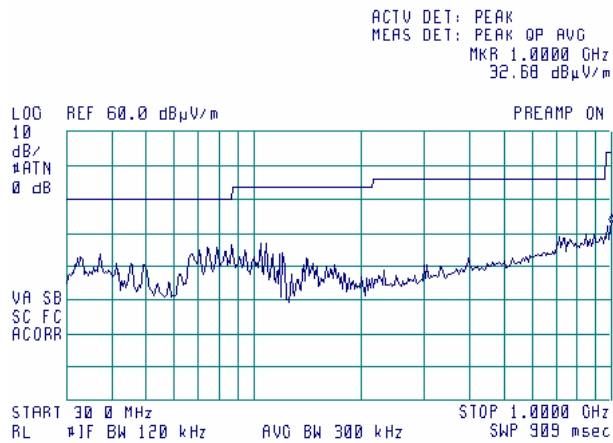


HERMON LABORATORIES

<b>Test specification:</b> RSS-Gen sections 6, 4.10, spurious radiated emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/28/2008			
<b>Temperature:</b> 21°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 44 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

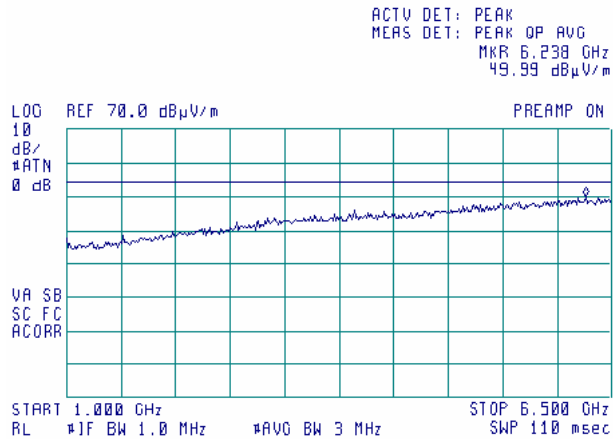
Plot 7.8.3 Radiated emission measurements from 30 MHz to 1000 MHz at the mid Rx channel frequency

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



Plot 7.8.4 Radiated emission measurements from 1.0 to 6.5 GHz at the mid Rx channel frequency

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

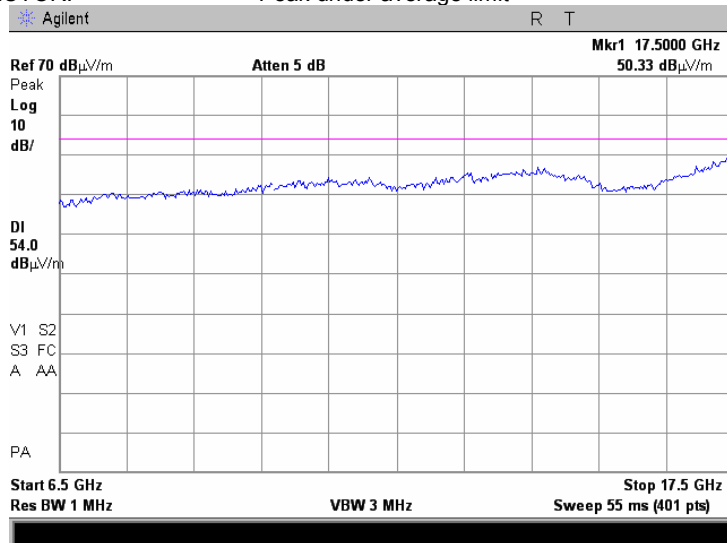




<b>Test specification:</b> RSS-Gen sections 6, 4.10, spurious radiated emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/28/2008			
<b>Temperature:</b> 21°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 44 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 22.5 dBi antenna assembly gain			

**Plot 7.8.5 Radiated emission measurements from 6.5 to 17.5 GHz at the mid Rx channel 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> RSS-Gen sections 6, 4.10, spurious radiated emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/28/2008			
<b>Temperature:</b> 21°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 44 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

Table 7.8.3 Radiated emission test results

EUT SET UP: TABLE-TOP  
 EUT OPERATING MODE: Receive  
 TEST SITE: SEMI ANECHOIC CHAMBER  
 TEST DISTANCE: 3 m  
 FREQUENCY RANGE: 30 MHz – 1000 MHz  
 RESOLUTION BANDWIDTH: 120 kHz

Frequency, MHz	Peak, dB(μV/m)	Quasi-peak dB(μV/m)			Antenna polariz.	Antenna height, m	Turntable position**, degrees	Verdict
		Measured emission, dB(μV/m)	Limit, dB(μV/m)	Margin, dB*				
<b>Mid Rx channel (5580 MHz)</b>								Pass
79.255	28.30	23.70	40.0	-16.30	V	1.2	270	

TEST SITE: SEMI ANECHOIC CHAMBER  
 TEST DISTANCE: 3 m  
 FREQUENCY RANGE: 1000 MHz – 17500 MHz  
 RESOLUTION BANDWIDTH: 1000 kHz

Frequency, MHz	Peak emission, dB(μV/m)	Average			Antenna polarization	Antenna height, m	Turn-table position**, degrees	Verdict
		Measured emission, dB(μV/m)	Limit, dB(μV/m)	Margin, dB*				
<b>Mid Rx channel (5580 MHz)</b>								Pass
1000.930	42.90	35.60	54.0	-18.40	V	1.2	090	

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

Reference numbers of test equipment used

HL 0446	HL 0521	HL 0589	HL 0604	HL 1425	HL 1556	HL 1947	HL 1984
HL 2009	HL 2909						

Full description is given in Appendix A.

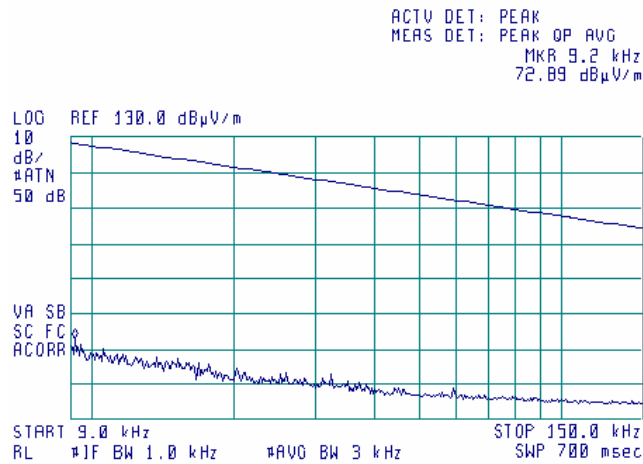


HERMON LABORATORIES

<b>Test specification:</b> RSS-Gen sections 6, 4.10, spurious radiated emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/28/2008			
<b>Temperature:</b> 21°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 44 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

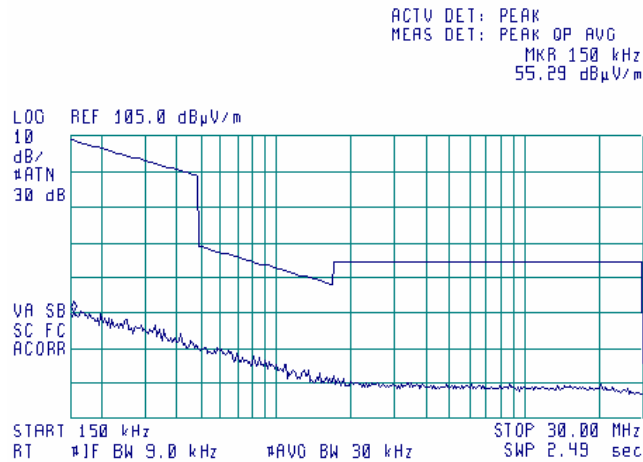
Plot 7.8.6 Radiated emission measurements from 9 to 150 kHz at the mid Rx carrier frequency

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



Plot 7.8.7 Radiated emission measurements from 0.15 MHz to 30 MHz at the mid Rx channel frequency

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



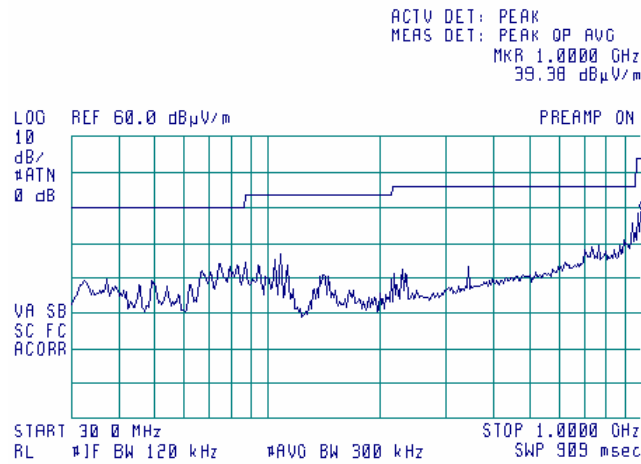


HERMON LABORATORIES

<b>Test specification:</b> RSS-Gen sections 6, 4.10, spurious radiated emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/28/2008			
<b>Temperature:</b> 21°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 44 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

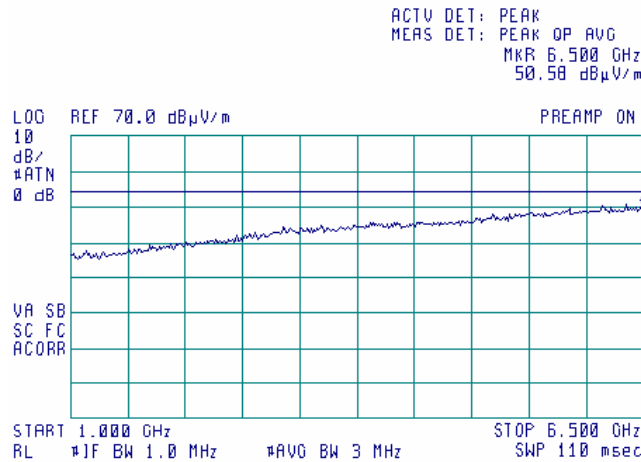
Plot 7.8.8 Radiated emission measurements from 30 MHz to 1000 MHz at the mid Rx channel frequency

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



Plot 7.8.9 Radiated emission measurements from 1.0 to 6.5 GHz at the mid Rx channel frequency

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

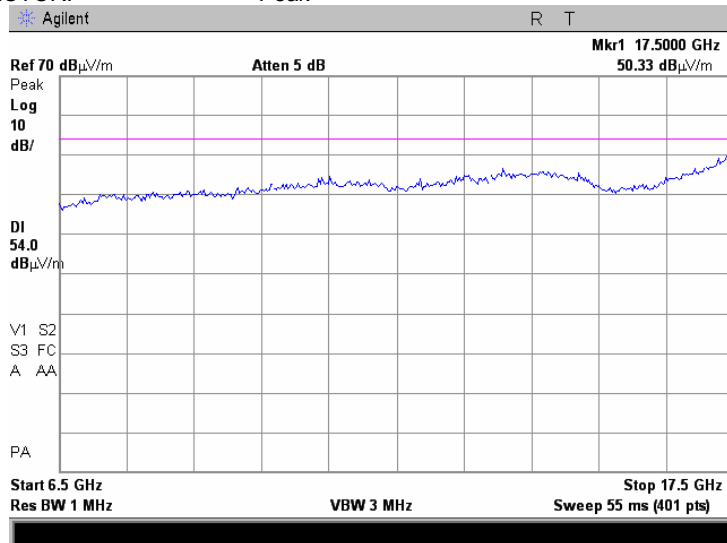




<b>Test specification:</b> RSS-Gen sections 6, 4.10, spurious radiated emission			
<b>Test procedure:</b> ANSI C63.4, Section 13.1.3			
<b>Test mode:</b> Compliance	<b>Verdict:</b> PASS		
<b>Date:</b> 12/28/2008			
<b>Temperature:</b> 21°C	<b>Air Pressure:</b> 1012 hPa	<b>Relative Humidity:</b> 44 %	<b>Power Supply:</b> 120 VAC
<b>Remarks:</b> EUT with 28 dBi antenna assembly gain			

**Plot 7.8.10 Radiated emission measurements from 6.5 to 17.5 GHz at the mid Rx channel frequency**

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



**8 APPENDIX A Test equipment and ancillaries used for tests**

HL No	Description	Manufacturer	Model	Ser. No.	Last Cal.	Due Cal.
0446	Antenna, Loop, Active, 10 kHz - 30 MHz	EMCO	6502	2857	29-Jun-08	29-Jun-09
0493	Temperature Chamber -45...175 deg C	Thermotron	S-1.2 Mini-Max	14016	19-May-08	19-May-09
0521	EMI Receiver (Spectrum Analyzer) with RF filter section 9 kHz-6.5 GHz	Hewlett Packard Co	8546A	3617A 00319, 3448A002 53	29-Aug-08	29-Aug-09
0580	DC block adaptor 10 kHz - 2.2 GHz	Anritsu	MA8601 A	580	23-Nov-08	23-Nov-09
0589	Cable Coaxial, GORE A2P01POL118, 2.3 m, 6.5 GHz	Hermon Laboratories	GORE-3	176	01-Jan-08	01-Jan-09
0604	Antenna BiconiLog Log-Periodic/T Bow-TIE, 26 - 2000 MHz	EMCO	3141	9611-1011	10-Jan-08	10-Jan-09
1194	Variac, 220 V/ 2.5 A	Matsunaga		2962	06-Jan-08	06-Jan-09
1425	EMI Receiver, 9 kHz - 2.9 GHz, System: HL1426, HL1427	Agilent Technologies	8542E	3710A002 22, 3705A002 04	03-Sep-08	03-Sep-09
1430	EMI Receiver, 9 kHz - 2.9 GHz, System: HL1431, HL1432	Agilent Technologies	8542E	3807A002 62,3705A0 0217	31-Aug-08	31-Aug-09
1513	Cable RF, 8 m, BNC/BNC	Belden	M17/167 MIL-C-17	1513	03-Sep-08	03-Sep-09
1556	Cable RF, 0.5 m	Telequis	MIL-C-17F-RG 058 CU	1556	01-Jan-08	01-Jan-09
1947	Cable 18GHz, 6.5 m, blue	Rhophase Microwave Limited	NPS-1803A-6500-NPS	T4974	01-Jan-08	01-Jan-09
1984	Antenna, Double-Ridged Waveguide Horn, 1-18 GHz, 300 W	EMC Test Systems	3115	9911-5964	03-Mar-08	03-Mar-09
2009	Cable RF, 8 m	Alpha Wire	RG-214	C-56	01-Jan-08	01-Jan-09
2780	EMC analyzer, 100 Hz to 26.5 GHz	Agilent Technologies	E7405A	MY451024 6	11-Jun-07	11-Jun-09
2883	Cable, 18 GHz N-type, M-F, 3 m	Bird	TC-MNFN-3.0	211539 003	07-Dec-08	07-Dec-09
2888	LISN Two-line V-Network 50 Ohm / 50 uH + 5 Ohm, 16A, MIL STD 461E, CISPR 16-1	Rolf Heine	NNB-2/16Z	02/10018	09-Jul-08	09-Jul-09
2909	Spectrum analyzer, ESA-E, 100 Hz to 26.5 GHz	Agilent Technologies	E4407B	MY414447 62	07-May-07	07-May-09
3175	Attenuator, N-type, 10 dB, DC to 18 GHz, 5 W	Mini-Circuits	BW-N10W5+	0708	07-May-08	07-May-09
3176	Attenuator, N-type, 10 dB, DC to 18 GHz, 5 W	Mini-Circuits	BW-N10W5+	0708	07-May-08	07-May-09
3179	Attenuator, N-type, 20 dB, DC to 18 GHz, 5 W	Mini-Circuits	BW-N20W5+	0651	07-May-08	07-May-09
3180	Attenuator, N-type, 20 dB, DC to 18 GHz, 5 W	Mini-Circuits	BW-N20W5+	0651	07-May-08	07-May-09
3233	Multimeter	Fluke	115C	93771523	15-Jul-08	15-Jul-09
3286	Temperature Chamber, (-40 to +170) °C	Thermotron	EL-8-CH-1-1-CO2	21-9048	09-Sep-08	09-Sep-09
3612	Cable RF, 17.5 m, N type-N type	Teldor	RG-214/U	NA	17-Nov-08	17-Nov-09

## 9 APPENDIX B Measurement uncertainties

Expanded uncertainty at 95% confidence in Hermon Labs EMC measurements

Test description	Expanded uncertainty
Conducted carrier power at RF antenna connector	Below 12.4 GHz: $\pm 1.7$ dB 12.4 GHz to 40 GHz: $\pm 2.3$ dB
Conducted emissions at RF antenna connector	9 kHz to 2.9 GHz: $\pm 2.6$ dB 2.9 GHz to 6.46 GHz: $\pm 3.5$ dB 6.46 GHz to 13.2 GHz: $\pm 4.3$ dB 13.2 GHz to 22.0 GHz: $\pm 5.0$ dB 22.0 GHz to 26.8 GHz: $\pm 5.5$ dB 26.8 GHz to 40.0 GHz: $\pm 4.8$ dB
Occupied bandwidth	$\pm 8.0$ %
Conducted emissions with LISN	9 kHz to 150 kHz: $\pm 3.9$ dB 150 kHz to 30 MHz: $\pm 3.8$ dB
Radiated emissions at 3 m measuring distance Horizontal polarization	Biconilog antenna: $\pm 5.3$ dB Biconical antenna: $\pm 5.0$ dB Log periodic antenna: $\pm 5.3$ dB Double ridged horn antenna: $\pm 5.3$ dB
Vertical polarization	Biconilog antenna: $\pm 6.0$ dB Biconical antenna: $\pm 5.7$ dB Log periodic antenna: $\pm 6.0$ dB Double ridged horn antenna: $\pm 6.0$ dB

Hermon Laboratories is accredited by A2LA for calibration according to present requirements of ISO/IEC 17025 and NCSL Z540-1. The accreditation is granted to perform calibration of parameters that are listed in the Scope of Hermon Laboratories Accreditation.

Hermon Laboratories calibrates its reference and transfer standards by calibration laboratories accredited to ISO/IEC 17025 by a mutually recognized Accreditation Body or by a recognized national metrology institute. All reference and transfer standards used in the calibration system are traceable to national or international standards.

In-house calibration of all test and measurement equipment is performed on a regular basis according to Hermon Laboratories calibration procedures, manufacturer calibration/verification procedures or procedures defined in the relevant standards. The Hermon Laboratories test and measurement equipment is calibrated within the tolerances specified by the manufacturers and/or by the relevant standards.

## 10 APPENDIX C Test laboratory description

Tests were performed at Hermon Laboratories Ltd., which is a fully independent, private, EMC, safety, environmental and telecommunication testing facility.

Hermon Laboratories is listed by the Federal Communications Commission (USA) for all parts of Code of Federal Regulations 47 (CFR 47), Registration Numbers 90624 for OATS and 90623 for the anechoic chamber; by Industry Canada for electromagnetic emissions (file numbers IC 2186A-1 for OATS, IC 2186A-2 for anechoic chamber, IC 2186A-3 for full-anechoic chamber for RE measurements above 1 GHz), certified by VCCI, Japan (the registration numbers are R-808 for OATS, R-1082 for anechoic chamber, G-27 for full-anechoic chamber for RE measurements above 1 GHz, C-845 for conducted emissions site, T-1606 for conducted emissions at telecommunication ports), has a status of a Telefication - Listed Testing Laboratory, Certificate No. L138/00. The laboratory is accredited by American Association for Laboratory Accreditation (USA) according to ISO/IEC 17025 for electromagnetic compatibility, product safety, telecommunications testing and environmental simulation (for exact scope please refer to Certificate No. 839.01). The FCC Designation Number is US1003.

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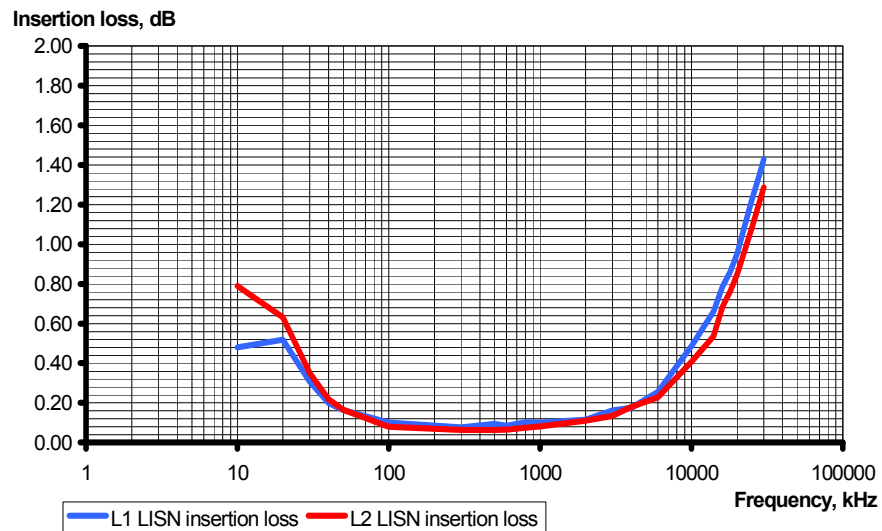
## 11 APPENDIX D Specification references

47CFR part 15: 2009	Radio Frequency Devices.
FCC Public Notice DA 02-2138 August 30, 2002	Measurement procedure updated for peak transmit power in U-NII bands
ANSI C63.2: 1996	American National Standard for Instrumentation-Electromagnetic Noise and Field Strength, 10 kHz to 40 GHz-Specifications.
ANSI C63.4: 2003	American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz.
RSS-210 Issue 8: 2010	Low Power Licence- Exempt Radiocommunication Devices
RSS-Gen Issue 3: 2010	General Requirements and Information for the certification of Radiocommunication Equipment

## 12 APPENDIX E Test equipment correction factors

**Correction factor**  
**Line impedance stabilization network**  
**Model NNB-2/16Z, Rolf Heine, HL 2888**

Frequency, kHz	Insertion loss, dB		Measurement Uncertainty, dB
	L1	N	
10	0.48	0.79	±0.6
20	0.52	0.63	
30	0.31	0.35	
40	0.20	0.22	
50	0.16	0.17	
100	0.10	0.08	
300	0.08	0.06	
500	0.10	0.06	
600	0.09	0.07	
800	0.10	0.07	
1000	0.10	0.08	
2000	0.12	0.11	
3000	0.16	0.14	
4000	0.17	0.18	
6000	0.26	0.23	
10000	0.49	0.41	
14000	0.66	0.54	
16000	0.79	0.69	
18000	0.86	0.76	
20000	0.96	0.85	
25000	1.22	1.08	
28000	1.35	1.21	
30000	1.43	1.29	





**Antenna Factor**  
**Active Loop Antenna**  
**EMC Test Systems, model 6502, serial number 2857, HL 0446**

Frequency, MHz	Magnetic Antenna Factor, dB(S/m)	Electric Antenna Factor, dB(1/m)
0.009	-32.8	18.7
0.010	-33.8	17.7
0.020	-38.3	13.2
0.050	-41.1	10.4
0.075	-41.3	10.2
0.100	-41.6	9.9
0.150	-41.7	9.8
0.250	-41.6	9.9
0.500	-41.8	9.7
0.750	-41.9	9.6
1.000	-41.4	10.1
2.000	-41.5	10.0
3.000	-41.4	10.1
4.000	-41.4	10.1
5.000	-41.5	10.0
10.000	-41.9	9.6
15.000	-41.9	9.6
20.000	-42.2	9.3
25.000	-42.8	8.7
30.000	-44.0	7.5

Antenna factor in dB(S/m) is to be added to receiver meter reading in dB( $\mu$ V) to convert it into field intensity in dB( $\mu$ A/m).

**Antenna factor**  
**Biconilog antenna EMCO, model 3141, serial number 1011, HL 0604**

Frequency, MHz	Antenna factor, dB(1/m)	Frequency, MHz	Antenna factor, dB(1/m)	Frequency, MHz	Antenna factor, dB(1/m)
26	7.8	560	19.8	1300	27.0
28	7.8	580	20.6	1320	27.8
30	7.8	600	21.3	1340	28.3
40	7.2	620	21.5	1360	28.2
60	7.1	640	21.2	1380	27.9
70	8.5	660	21.4	1400	27.9
80	9.4	680	21.9	1420	27.9
90	9.8	700	22.2	1440	27.8
100	9.7	720	22.2	1460	27.8
110	9.3	740	22.1	1480	28.0
120	8.8	760	22.3	1500	28.5
130	8.7	780	22.6	1520	28.9
140	9.2	800	22.7	1540	29.6
150	9.8	820	22.9	1560	29.8
160	10.2	840	23.1	1580	29.6
170	10.4	860	23.4	1600	29.5
180	10.4	880	23.8	1620	29.3
190	10.3	900	24.1	1640	29.2
200	10.6	920	24.1	1660	29.4
220	11.6	940	24.0	1680	29.6
240	12.4	960	24.1	1700	29.8
260	12.8	980	24.5	1720	30.3
280	13.7	1000	24.9	1740	30.8
300	14.7	1020	25.0	1760	31.1
320	15.2	1040	25.2	1780	31.0
340	15.4	1060	25.4	1800	30.9
360	16.1	1080	25.6	1820	30.7
380	16.4	1100	25.7	1840	30.6
400	16.6	1120	26.0	1860	30.6
420	16.7	1140	26.4	1880	30.6
440	17.0	1160	27.0	1900	30.6
460	17.7	1180	27.0	1920	30.7
480	18.1	1200	26.7	1940	30.9
500	18.5	1220	26.5	1960	31.2
520	19.1	1240	26.5	1980	31.6
540	19.5	1260	26.5	2000	32.0
		1280	26.6		

Antenna factor in dB(1/m) is to be added to receiver meter reading in dB( $\mu$ V) to convert it into field intensity in dB( $\mu$ V/m).

**Antenna factor**  
**Double-ridged wave guide horn antenna**  
**EMC Test Systems, model 3115, serial no: 9911-5964, HL 1984**

Frequency, MHz	Antenna gain, dBi	Antenna factor. dB(1/m)
1000.0	5.8	24.5
1500.0	9.0	24.8
2000.0	8.6	27.7
2500.0	9.5	28.7
3000.0	8.9	30.8
3500.0	8.2	32.9
4000.0	9.6	32.7
4500.0	11.2	32.1
5000.0	10.6	33.6
5500.0	9.8	35.3
6000.0	10.1	35.7
6500.0	10.7	35.8
7000.0	10.9	36.2
7500.0	10.5	37.2
8000.0	11.1	37.2
8500.0	10.8	38.1
9000.0	10.7	38.6
9500.0	11.5	38.3
10000.0	11.8	38.4
10500.0	12.3	38.3
11000.0	12.3	38.8
11500.0	11.5	39.9
12000.0	12.2	39.6
12500.0	12.6	39.5
13000.0	12.0	40.5
13500.0	11.7	41.1
14000.0	11.7	41.5
14500.0	12.7	40.8
15000.0	14.2	39.5
15500.0	16.0	38.1
16000.0	16.2	38.1
16500.0	14.5	40.1
17000.0	12.2	42.6
17500.0	9.7	45.4
18000.0	6.6	48.7

Antenna factor is to be added to receiver meter reading in dB( $\mu$ V) to convert it into field intensity in dB( $\mu$ V/m).

**Cable loss**  
Cable Coaxial, GORE A2P01POL118, 2.3 m, model:GORE-3, HL 0589  
+ Cable Coaxial, ANDREW PSWJ4, 6m, model: ANDREW-6, HL 1004

No.	Frequency, MHz	Cable loss, dB	Tolerance (Specification), dB	Measurement uncertainty, dB
1	30	0.33	≤ 6.5	±0.12
2	50	0.40		
3	100	0.57		
4	300	0.97		
5	500	1.25		
6	800	1.59		
7	1000	1.81		
8	1200	1.97		
9	1400	2.15		
10	1600	2.28		
11	1800	2.43		
12	2000	2.61		
13	2200	2.75		
14	2400	2.89		
15	2600	2.97		
16	2800	3.21	≤ 6.5	±0.12
17	3000	3.32		
18	3300	3.47		
19	3600	3.62		
20	3900	3.84		
21	4200	3.92		
22	4500	4.07		
23	4800	4.36		±0.17
24	5100	4.62		
25	5400	4.78		
26	5700	5.16		
27	6000	5.67		
28	6500	5.99		

**Cable loss**  
Cable RF, 2m, model: Sucoflex 104PE, S/N 13094/4PE, HL 1566

No.	Frequency, MHz	Cable loss, dB	Tolerance, dB	Measurement uncertainty, dB
1	30	0.10	≤ 5.0	±0.12
2	50	0.13		
3	100	0.20		
4	300	0.33		
5	500	0.45		
6	800	0.60		
7	1000	0.65		
8	1500	0.91		
9	2000	1.08		
10	2500	1.19		
11	3000	1.28		
12	3500	1.49		
13	4000	1.63		
14	4500	1.63	≤ 5.0	±0.17
15	5000	1.66		
16	5500	1.88		
17	6000	1.96		
18	6500	1.93		
19	7000	2.07		
20	7500	2.37		
21	8000	2.34		
22	8500	2.64		
23	9000	2.68		
24	9500	2.64		
25	10000	2.70		
26	10500	2.84		
27	11000	2.88		
28	11500	3.19		
29	12000	3.15		
30	12500	3.20	≤ 5.0	±0.26
31	13000	3.22		
32	13500	3.47		
33	14000	3.41		
34	14500	3.59		
35	15000	3.79		
36	15500	4.24		
37	16000	4.12		
38	16500	4.46		
39	17000	4.50		
40	17500	4.49		
41	18000	4.45		

**Cable loss**  
**Cable 18 GHz, 6.5 m, blue, model: NPS-1803A-6500-NPS, S/N T4974, HL 1947**

Frequency, GHz	Cable loss, dB
0.03	0.30
0.05	0.38
0.10	0.53
0.20	0.74
0.30	0.91
0.40	1.05
0.50	1.18
0.60	1.29
0.70	1.40
0.80	1.50
0.90	1.59
1.00	1.68
1.10	1.77
1.20	1.86
1.30	1.94
1.40	2.01
1.50	2.08
1.60	2.16
1.70	2.22
1.80	2.29
1.90	2.36
2.00	2.42
2.10	2.48
2.20	2.54
2.30	2.60
2.40	2.66
2.50	2.71
2.60	2.77
2.70	2.83
2.80	2.89
2.90	2.95
3.10	3.06
3.30	3.17
3.50	3.28
3.70	3.39
3.90	3.51
4.10	3.62
4.30	3.76
4.50	3.87
4.70	4.01
4.90	4.10
5.10	4.21
5.30	4.31
5.50	4.43
5.70	4.56
5.90	4.71

Frequency, GHz	Cable loss, dB
6.10	4.87
6.30	4.95
6.50	4.94
6.70	4.88
6.90	4.87
7.10	4.83
7.30	4.85
7.50	4.86
7.70	4.91
7.90	4.96
8.10	5.03
8.30	5.08
8.50	5.13
8.70	5.21
8.90	5.22
9.10	5.34
9.30	5.35
9.50	5.52
9.70	5.51
9.90	5.66
10.10	5.70
10.30	5.78
10.50	5.79
10.70	5.82
10.90	5.86
11.10	5.94
11.30	6.06
11.50	6.21
11.70	6.44
11.90	6.61
12.10	6.76
12.40	6.68
13.00	6.66
13.50	6.81
14.00	6.90
14.50	6.90
15.00	6.97
15.50	7.17
16.00	7.28
16.50	7.27
17.00	7.38
17.50	7.68
18.00	7.92



**Cable loss**  
**RF cable 8 m, model RG-214, HL 2009**

No.	Frequency, MHz	Cable loss, dB	Tolerance (Specification), dB	Measurement uncertainty, dB
1	1	0.10	NA	±0.12
2	10	0.14		
3	30	0.25		
4	50	0.34		
5	100	0.53		
6	300	0.99		
7	500	1.31		
8	800	1.73		
9	1000	1.98		
10	1100	2.11		
11	1200	2.21		
12	1300	2.35		
13	1400	2.46		
14	1500	2.55		
15	1600	2.68		
16	1700	2.78		
17	1800	2.88		
18	1900	2.98		
19	2000	3.09		

## 13 APPENDIX F Abbreviations and acronyms

A	ampere
AC	alternating current
A/m	ampere per meter
AM	amplitude modulation
AVRG	average (detector)
cm	centimeter
dB	decibel
dBm	decibel referred to one milliwatt
dB( $\mu$ V)	decibel referred to one microvolt
dB( $\mu$ V/m)	decibel referred to one microvolt per meter
dB( $\mu$ A)	decibel referred to one microampere
dB $\Omega$	decibel referred to one Ohm
DC	direct current
DTS	digital transmission system
EIRP	equivalent isotropically radiated power
ERP	effective radiated power
EUT	equipment under test
F	frequency
FHSS	frequency hopping spread spectrum
GHz	gigahertz
GND	ground
H	height
HL	Hermon laboratories
Hz	hertz
ITE	information technology equipment
k	kilo
kHz	kilohertz
LISN	line impedance stabilization network
LO	local oscillator
m	meter
MHz	megahertz
min	minute
mm	millimeter
ms	millisecond
$\mu$ s	microsecond
NA	not applicable
NT	not tested
OATS	open area test site
$\Omega$	Ohm
PCB	printed circuit board
PM	pulse modulation
PS	power supply
ppm	part per million ( $10^{-6}$ )
QP	quasi-peak
RE	radiated emission
RF	radio frequency
rms	root mean square
Rx	receive
s	second
T	temperature
Tx	transmit
V	volt
VA	volt-ampere

END OF TEST REPORT



14 APPENDIX G RADWIN 1000/2000 Antenna List and Power Settings



5470 – 5725 MHz Band

Part Number	Type	Antenna Frequency [GHz]	Antenna Assembly Gain at 5470-5725 MHz [dBi]	Channel Frequency [MHz]	Channel Bandwidth [MHz]	Output Power [dBm]
RW-9721-5158	Dish - Dual Pole	4.9 - 6.06	28*	5480, 5590, 5660, 5715	5	-3.3
				5485, 5585, 5665, 5710	10	0
				5490, 5580, 5670, 5705	20	1.3
				5505, 5565, 5685, 5690	40	1.7
				5500, 5570, 5680, 5695	40	-0.7
RW-9721-5158	Dish - Dual Pole	4.9 - 6.06	6*	5480, 5590, 5660, 5715	5	18.2
				5485, 5585, 5665, 5710	10	21.9
				5490, 5580, 5670, 5705	20	23.5
				5505, 5565, 5685, 5690	40	23.7
				5500, 5570, 5680, 5695	40	20.7
RW-9611-4958INT	FP Dual Pole Integrated	4.9 - 6.0	23.5	5480, 5590, 5660, 5715	5	0.7
				5485, 5585, 5665, 5710	10	3.4
				5490, 5580, 5670, 5705	20	6.3
				5505, 5565, 5685, 5690	40	5.7
				5500, 5570, 5680, 5695	40	2.8
RW-9611-4958	FP Dual Pole External	5.15 - 6.09	22.5*	5480, 5590, 5660, 5715	5	1.7
				5485, 5585, 5665, 5710	10	4.4
				5490, 5580, 5670, 5705	20	7.3
				5505, 5565, 5685, 5690	40	6.7
				5500, 5570, 5680, 5695	40	3.8
RW-9611-4958	FP Dual Pole External	5.15 - 6.09	6*	5480, 5590, 5660, 5715	5	18.2
				5485, 5585, 5665, 5710	10	21.9
				5490, 5580, 5670, 5705	20	23.5
				5505, 5565, 5685, 5690	40	23.7
				5500, 5570, 5680, 5695	40	20.7

\* Antenna assembly gain = Antenna Gain - Feeder Loss



15 APPENDIX H RADWIN 5000 Antenna List and Power Settings



5470 – 5725 MHz Band

Part Number	Type	Antenna Frequency [GHz]	Antenna Assembly Gain at 5470-5725 MHz [dBi]	Channel Frequency [MHz]	Channel Bandwidth [MHz]	Output Power [dBm]
RW-9061-5001	FP Dual Pole External	4.9 - 5.95	13*	5480, 5590, 5660, 5715	5	1.6
				5485, 5585, 5665, 5710	10	4.4
				5490, 5580, 5670, 5705	20	7.2
				5505, 5565, 5685, 5690	40	6.7
				5500, 5570, 5680, 5695	40	3.8
RW-9061-5001	FP Dual Pole External	4.9 - 5.95	6*	5480, 5590, 5660, 5715	5	18.2
				5485, 5585, 5665, 5710	10	21.9
				5490, 5580, 5670, 5705	20	23.5
				5505, 5565, 5685, 5690	40	23.7
				5500, 5570, 5680, 5695	40	20.7
RW-9061-5002	FP Dual Pole External	4.9 - 6.06	15.5*	5480, 5590, 5660, 5715	5	1.6
				5485, 5585, 5665, 5710	10	4.4
				5490, 5580, 5670, 5705	20	7.2
				5505, 5565, 5685, 5690	40	6.7
				5500, 5570, 5680, 5695	40	3.8
RW-9061-5002	FP Dual Pole External	4.9 - 6.06	6*	5480, 5590, 5660, 5715	5	18.2
				5485, 5585, 5665, 5710	10	21.9
				5490, 5580, 5670, 5705	20	23.5
				5505, 5565, 5685, 5690	40	23.7
				5500, 5570, 5680, 5695	40	20.7

\* Antenna assembly gain = Antenna Gain - Feeder Loss

