

TEST REPORT

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

FOR:

RADWIN Ltd.

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

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

This report is in conformity with ISO/ IEC 17025. The "A2LA Accredited" symbol endorsement applies only to the tests and calibrations that are listed in the scope of Hermon Laboratories accreditation. The test results relate only to the items tested.
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1 Applicant information

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Telephone: +972 3766 2988
Fax: +972 3766 2902
E-mail: shlomo_weiss@radwin.com
Contact name: Mr. Shlomo Weiss

2 Equipment under test attributes

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

3 Manufacturer information

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

4 Test details

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



5 Tests summary

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

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

Testing was completed against all relevant requirements of the test standard. Results obtained indicate that the product under test complies in full with the requirements tested.

The test results relate only to the items tested. Pass/ fail decision was based on nominal values.

This test report replaces the previously issued test report identified by Doc ID "RDWRAD_FCC.20146_21882".

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

6 EUT description

6.1 General information

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

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

6.2 Ports and lines

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

* - for external antenna configuration only

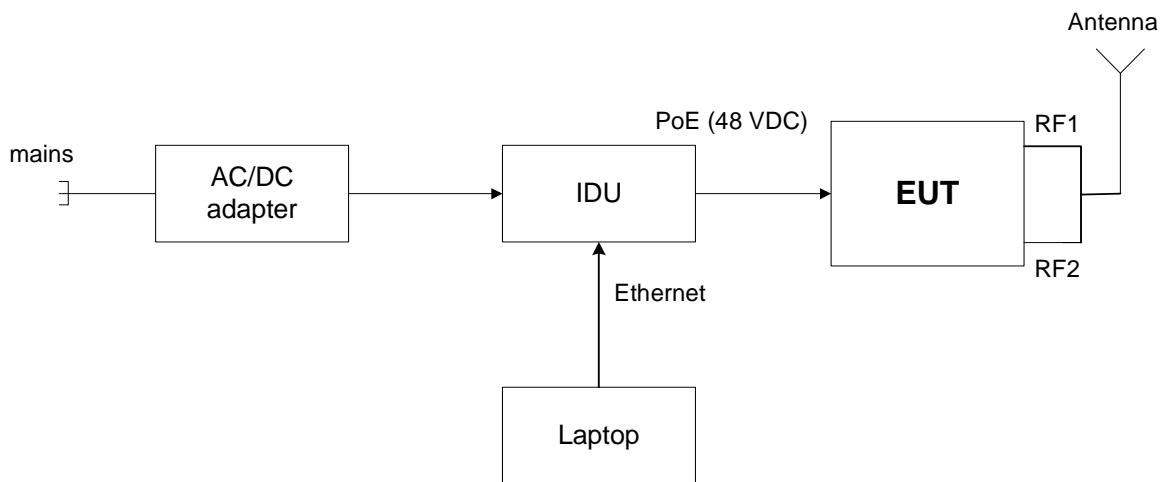
6.3 Support and test equipment

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

6.4 Changes made in the EUT

No changes were implemented.

6.5 Test configuration



Error!

6.6 Transmitter characteristics

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

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

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

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

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

7.1 Peak output power and peak spectral power density

7.1.1 General

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

Table 7.1.1 Peak output power and peak spectral power density limits

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

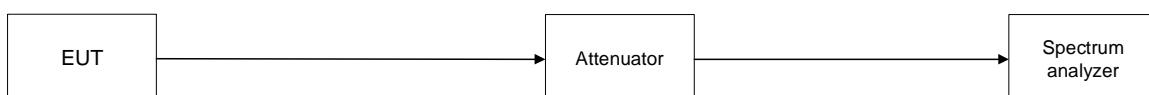
*Note 1: due to 22.5 dBi antenna assembly gain the limits of peak output power and peak power spectral density shall be reduced by 16.5 dB, due to 28 dBi antenna assembly gain the limits of peak output power and peak power spectral density shall be reduced by 22 dB;

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

7.1.2 Test procedure

- 7.1.2.1 The EUT was set up as shown in Figure 7.1.1, energized and its proper operation was checked.
- 7.1.2.2 The EUT was set to transmit modulated carrier at maximum data rate.
- 7.1.2.3 The measurements were performed in continuous transmission mode of operation for carrier (channel) frequencies at low and high edges and at the middle of the frequency range shown in Table 7.1.1. The transmitter 26 dB bandwidth was measured with spectrum analyzer as frequency delta between reference points on modulation envelope and provided in the associated tables and plots.
- 7.1.2.4 The EUT was adjusted to produce maximum available for end user RF output power.
- 7.1.2.5 The peak output power measurements were performed in continuous transmission mode of operation for carrier (channel) frequency at low, mid and high edges. The power was computed by integrating the spectrum across the 26 dB bandwidth of the signal as provided in the associated tables and plots.
- 7.1.2.6 The peak power spectral density was measured using a sample detector and power averaging mode to find the highest level across the emission in any 1-MHz band after 100 sweeps of averaging. The test results are provided in the associated tables and plots.

Figure 7.1.1 Peak output power test setup



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

Table 7.1.2 Conducted output power test results

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

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

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

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

Reference numbers of test equipment used

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



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

Table 7.1.3 Peak power spectral density test results

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

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

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

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

Reference numbers of test equipment used

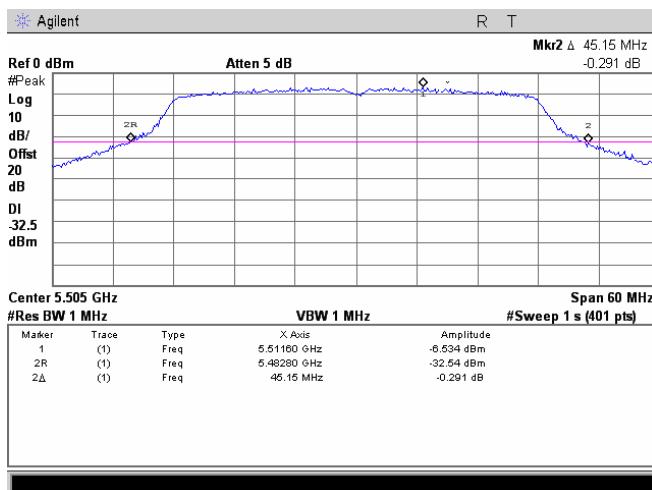
HL 2909	HL 2952	HL 3442				
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Full description is given in Appendix A.

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

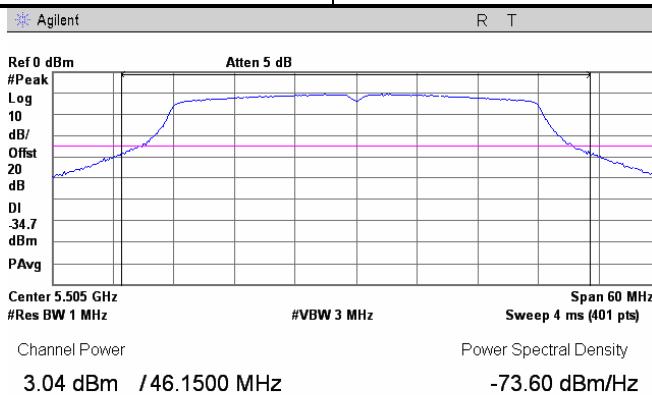
Plot 7.1.1 The 26 dB emission bandwidth

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



Plot 7.1.2 Peak output power

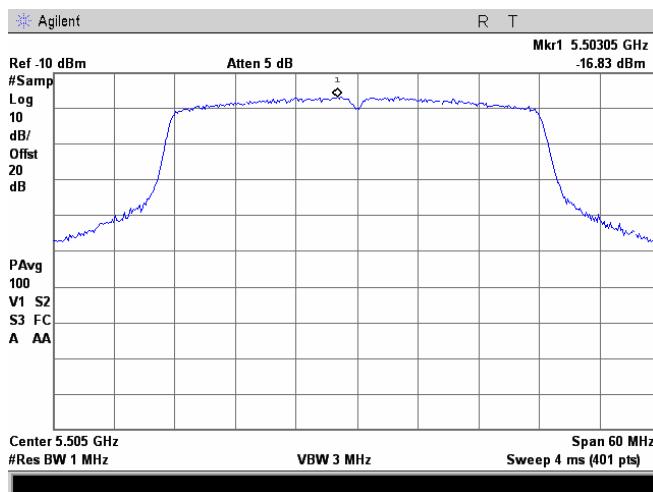
Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



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

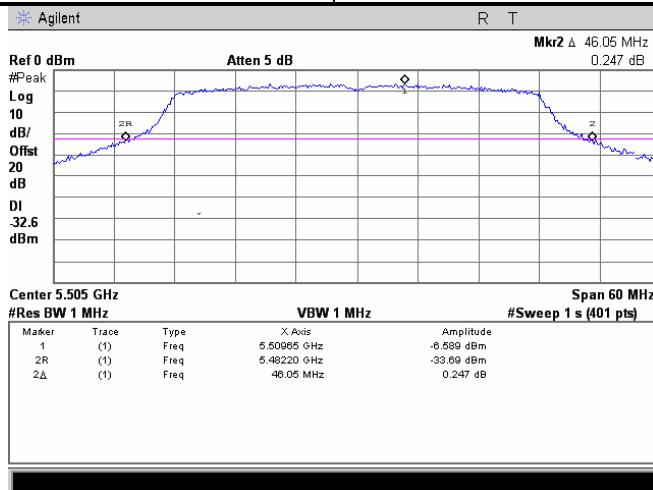
Plot 7.1.3 Peak spectral power density

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



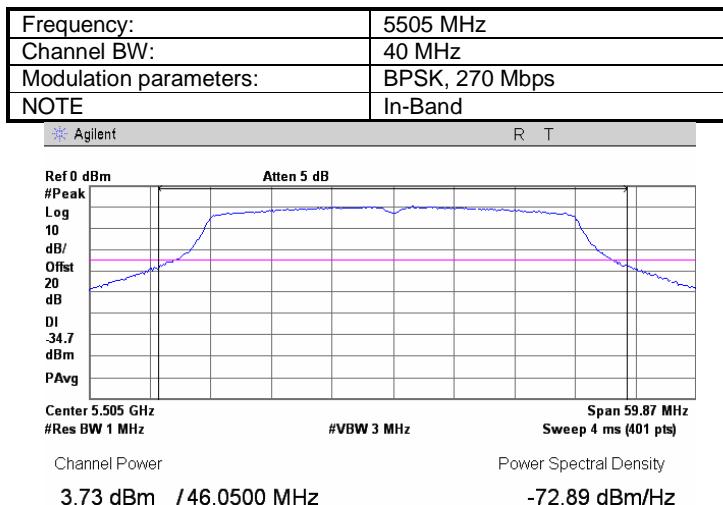
Plot 7.1.4 The 26 dB emission bandwidth

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



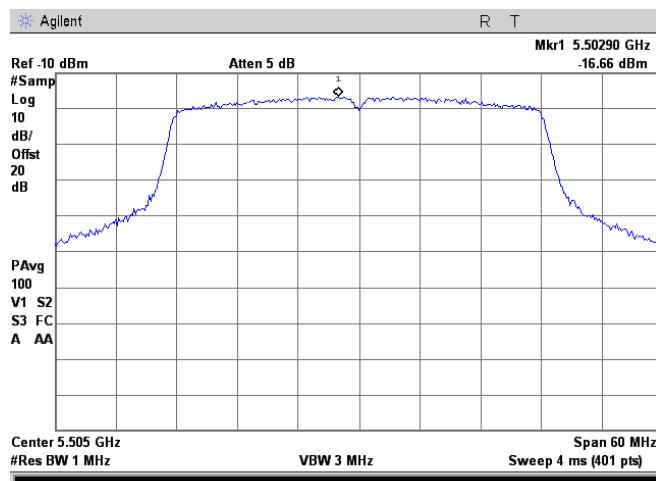
Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.5 Peak output power



Plot 7.1.6 Peak spectral power density

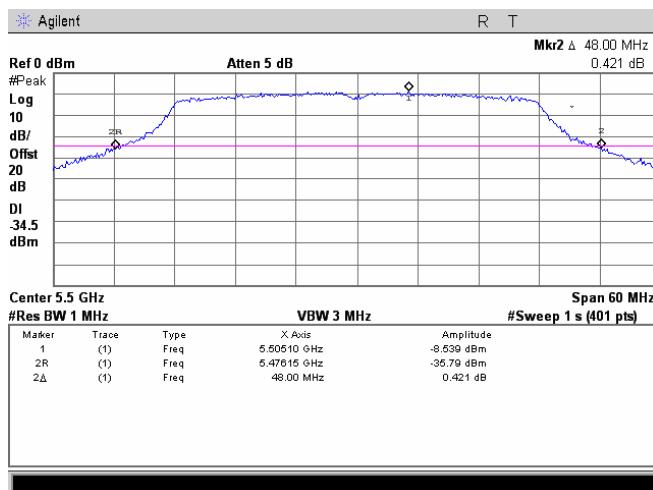
Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	In-Band



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

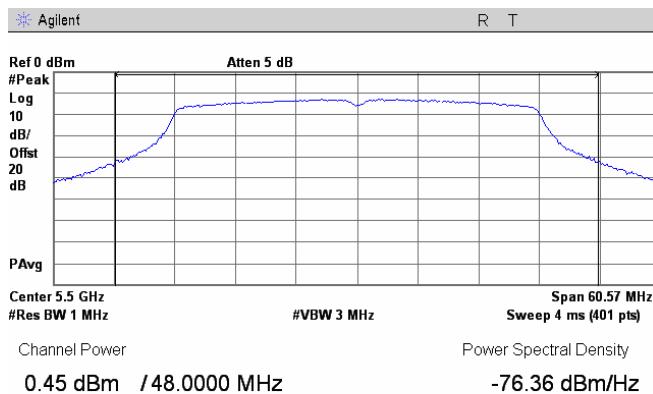
Plot 7.1.7 The 26 dB emission bandwidth

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



Plot 7.1.8 Peak output power

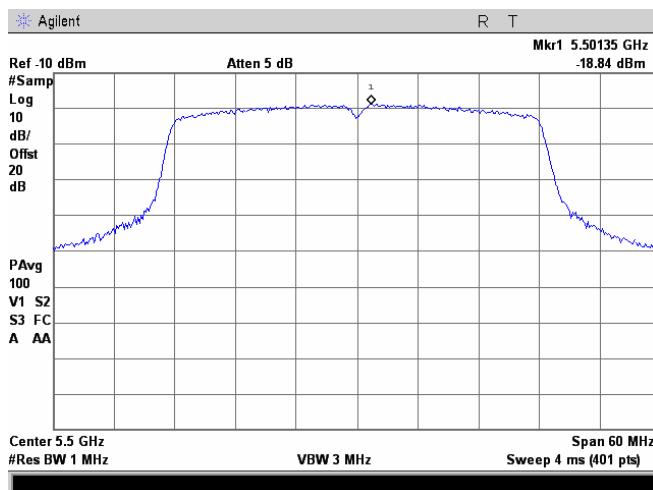
Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge



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

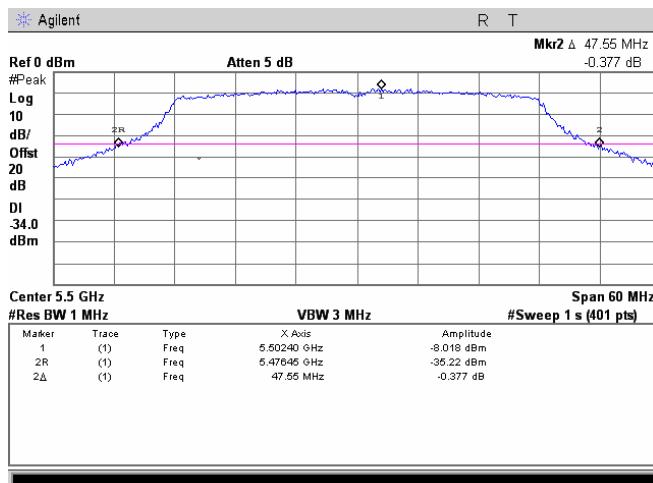
Plot 7.1.9 Peak spectral power density

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



Plot 7.1.10 The 26 dB emission bandwidth

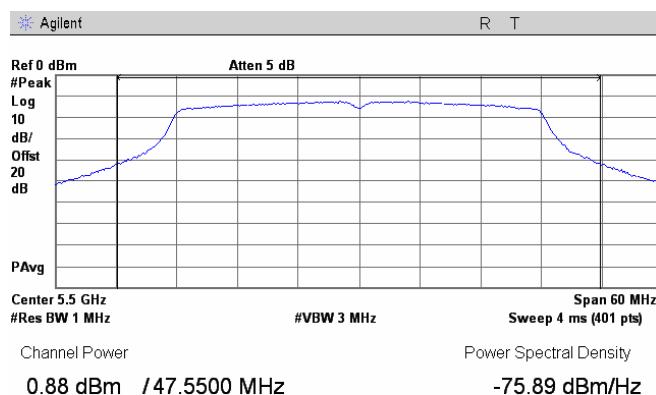
Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

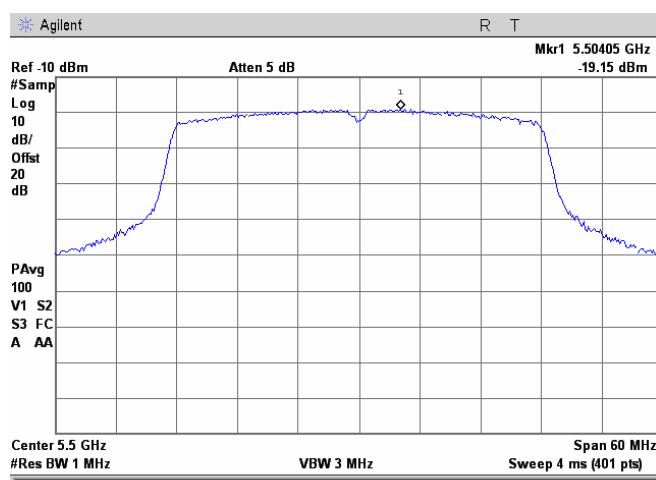
Plot 7.1.11 Peak output power

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



Plot 7.1.12 Peak spectral power density

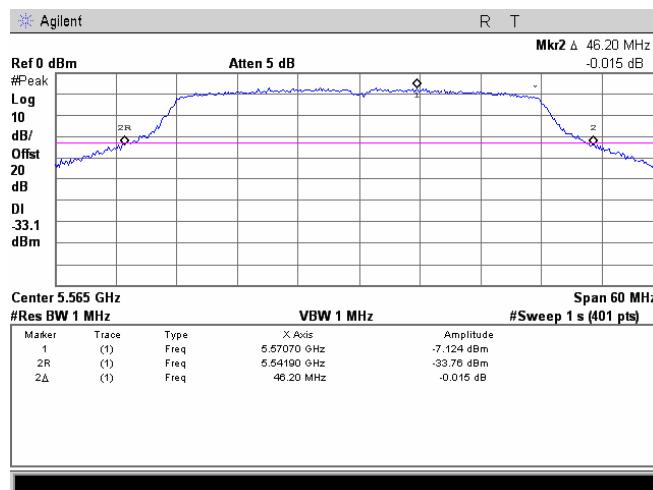
Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

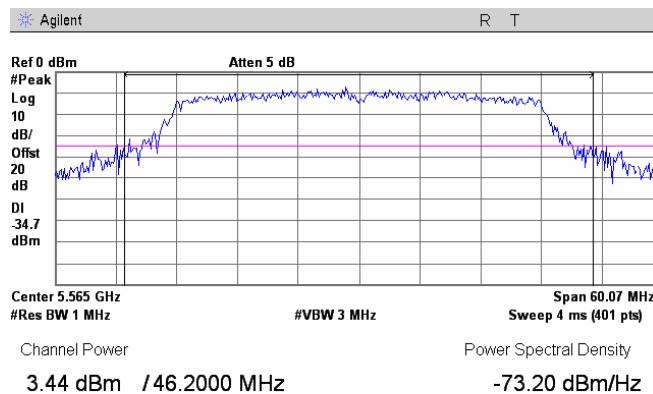
Plot 7.1.13 The 26 dB emission bandwidth

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



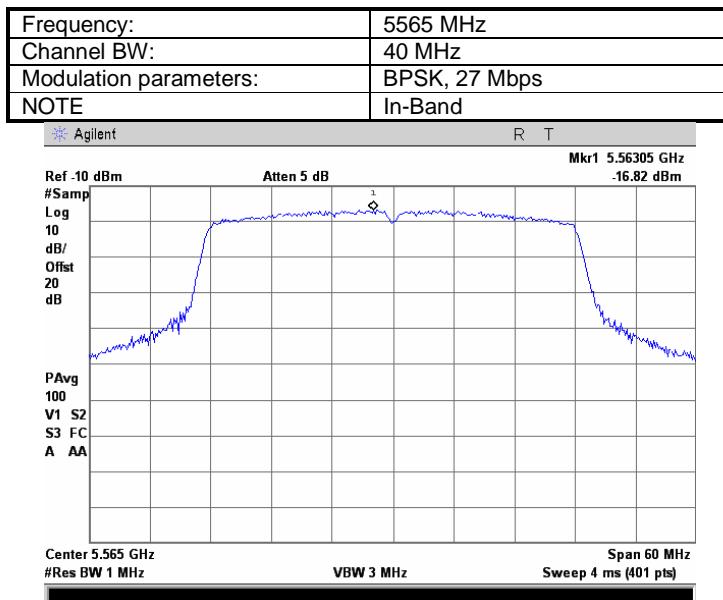
Plot 7.1.14 Peak output power

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

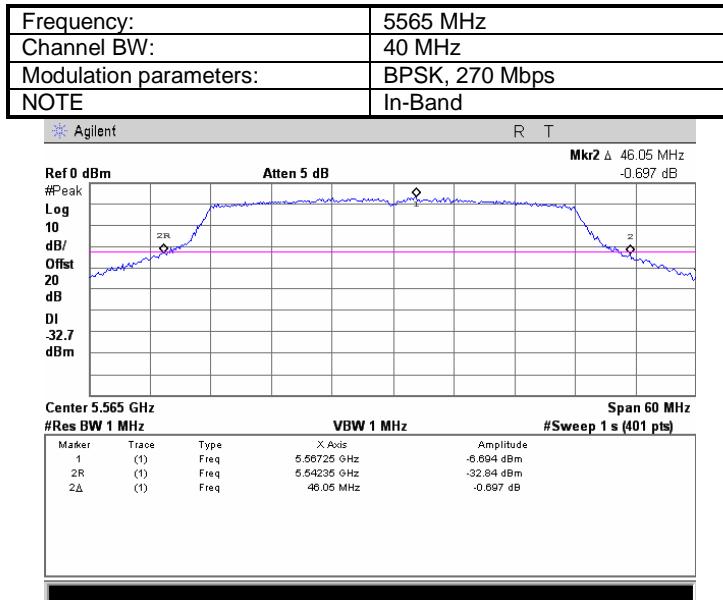


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.15 Peak spectral power density

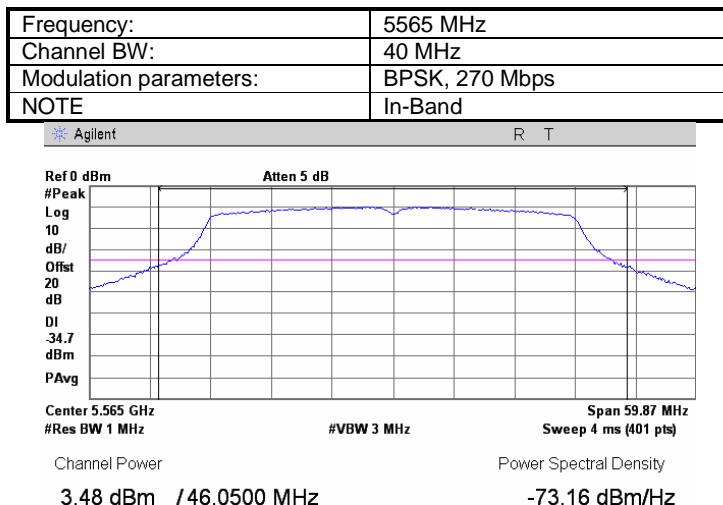


Plot 7.1.16 The 26 dB emission bandwidth



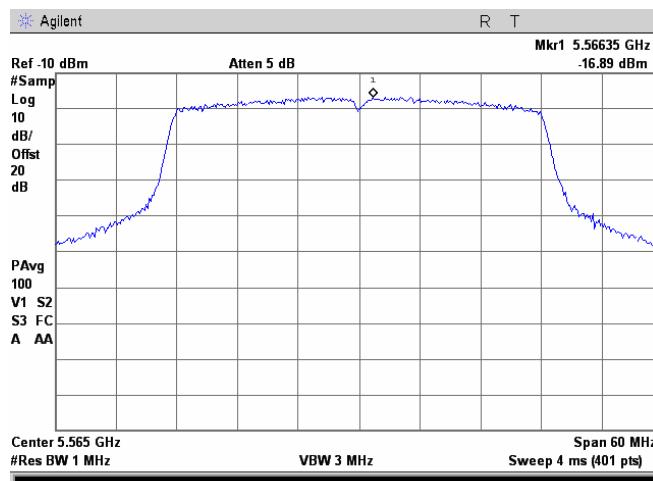
Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.17 Peak output power



Plot 7.1.18 Peak spectral power density

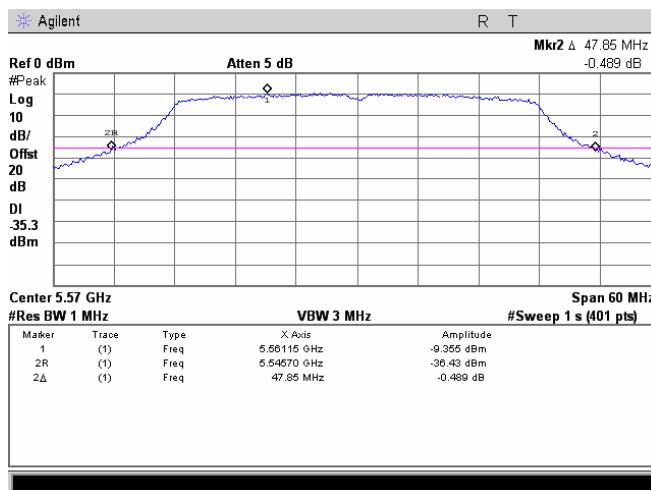
Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 270 Mbps
NOTE	In-Band



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

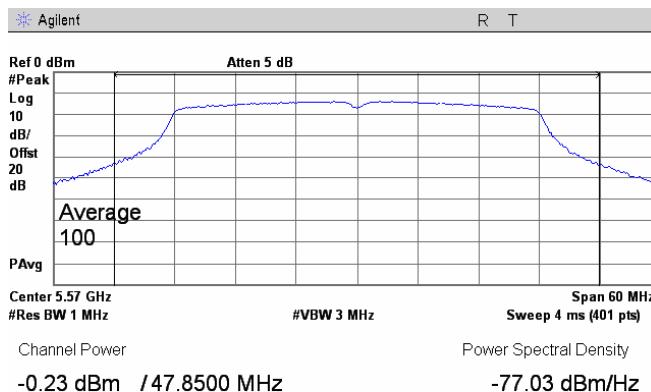
Plot 7.1.19 The 26 dB emission bandwidth

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



Plot 7.1.20 Peak output power

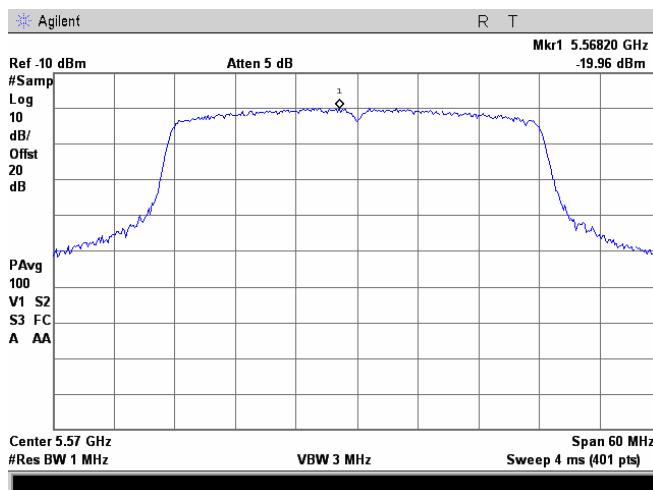
Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 27 Mbps
NOTE	Band Edge



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

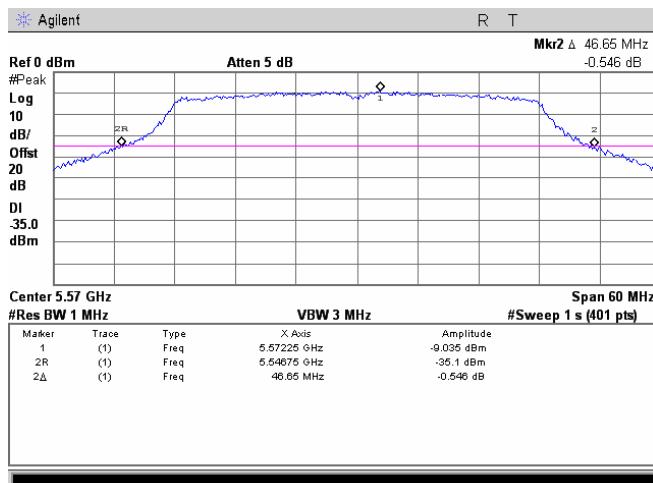
Plot 7.1.21 Peak spectral power density

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



Plot 7.1.22 The 26 dB emission bandwidth

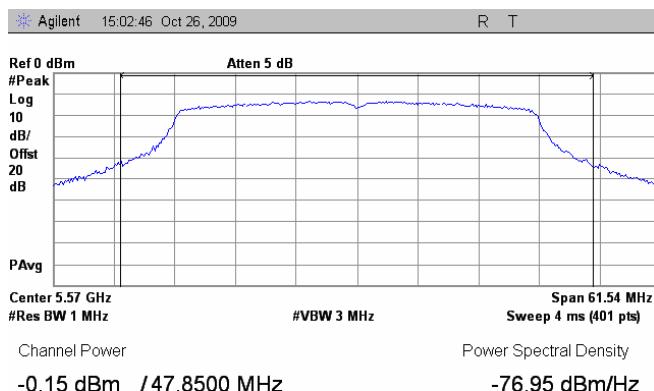
Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

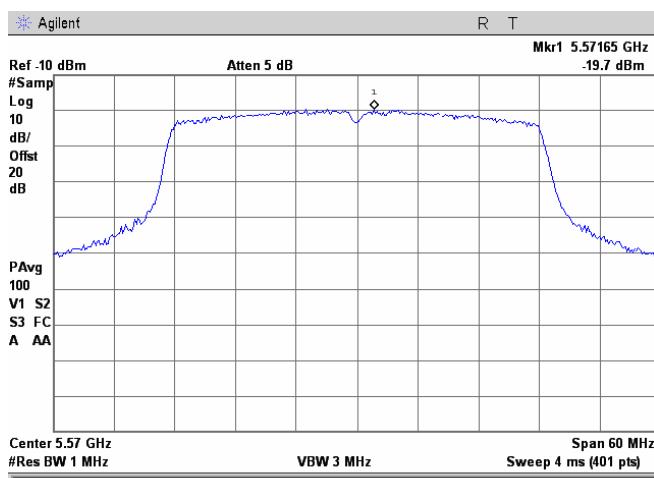
Plot 7.1.23 Peak output power

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



Plot 7.1.24 Peak spectral power density

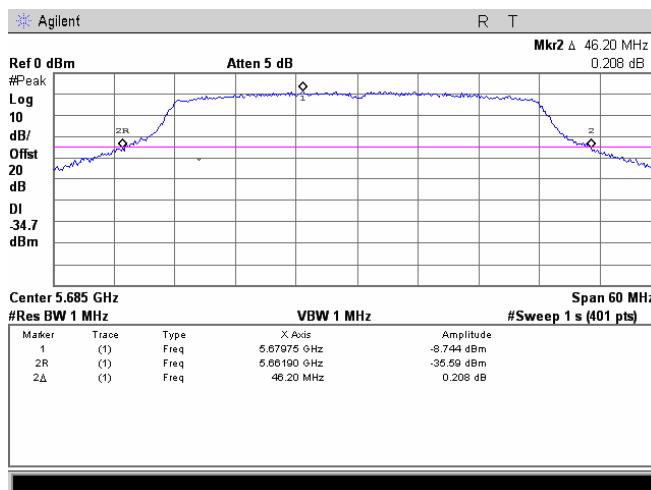
Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

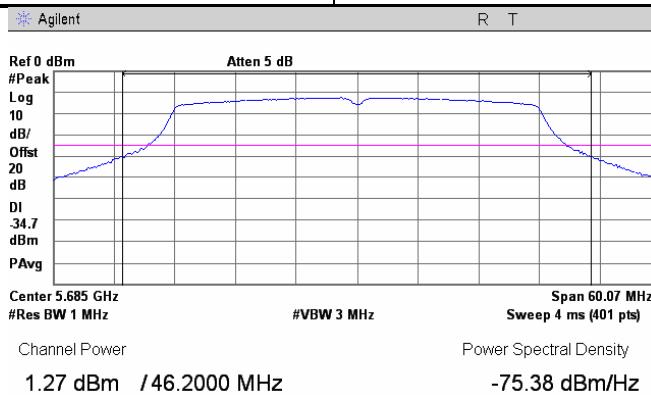
Plot 7.1.25 The 26 dB emission bandwidth

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



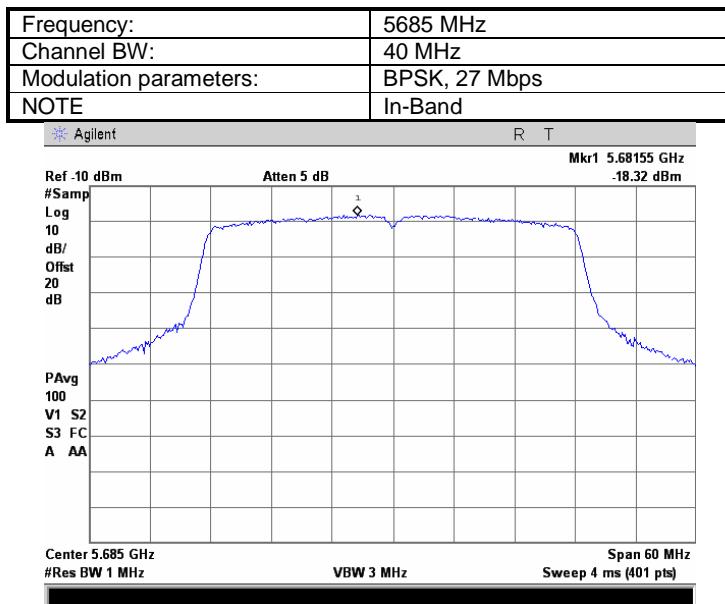
Plot 7.1.26 Peak output power

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

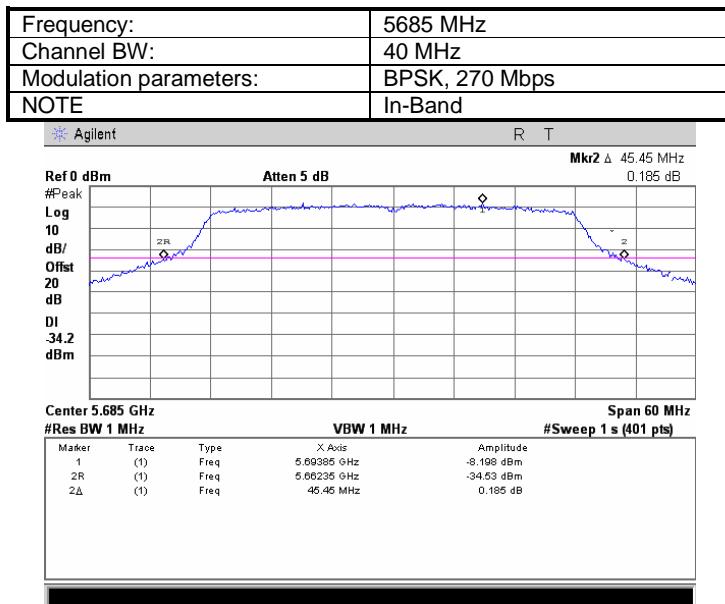


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.27 Peak spectral power density

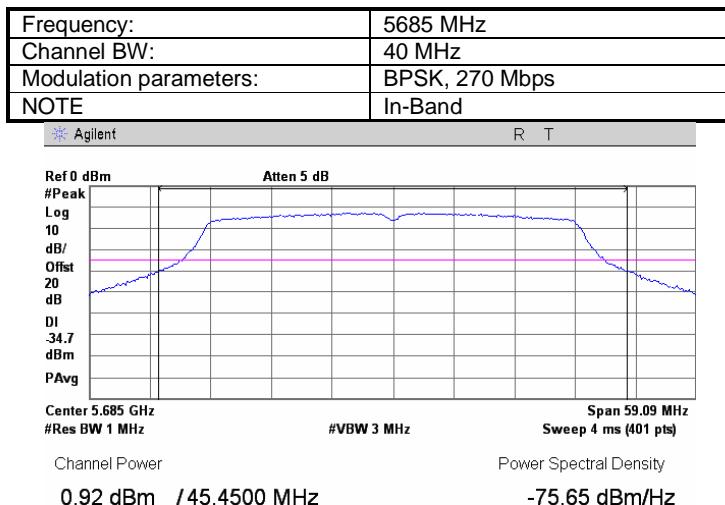


Plot 7.1.28 The 26 dB emission bandwidth



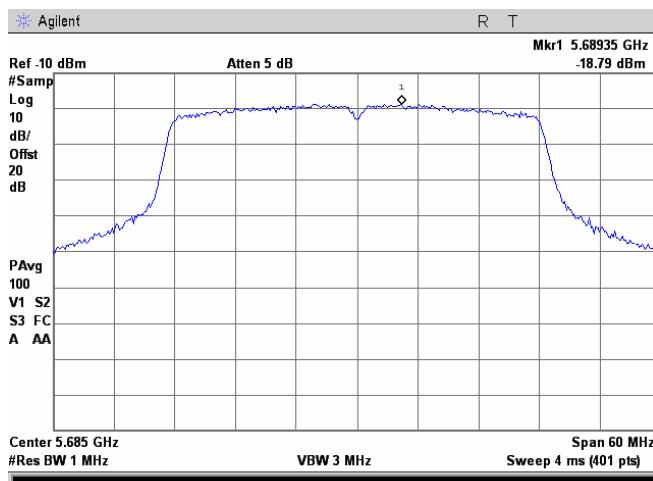
Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.29 Peak output power



Plot 7.1.30 Peak spectral power density

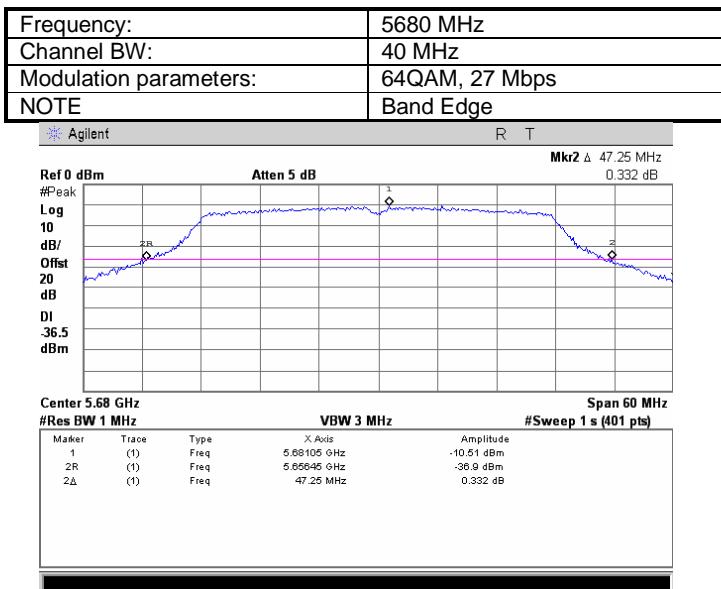
Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 270 Mbps
NOTE	In-Band



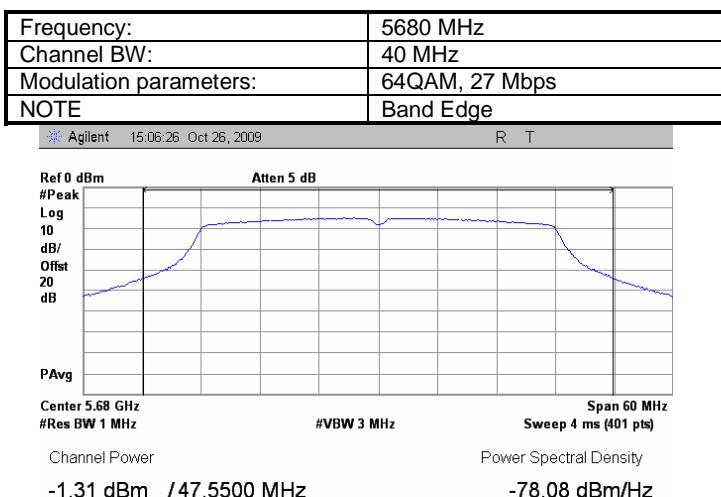


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	10/26/2009		
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.31 The 26 dB emission bandwidth



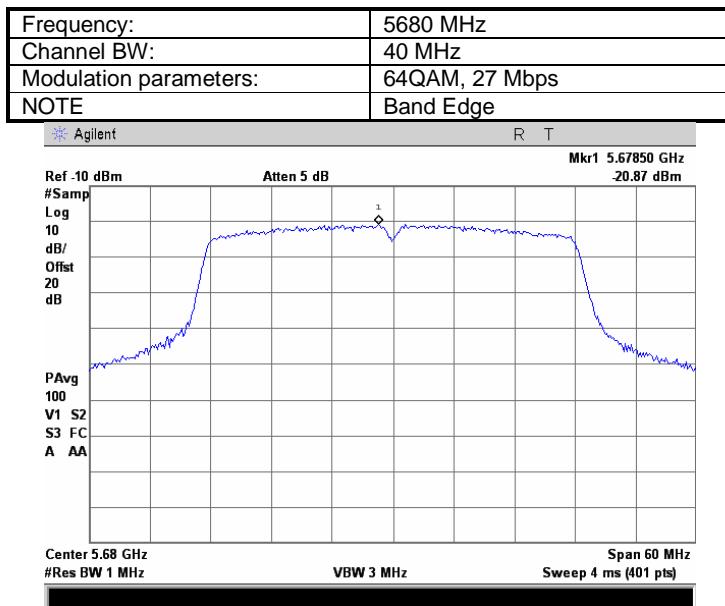
Plot 7.1.32 Peak output power



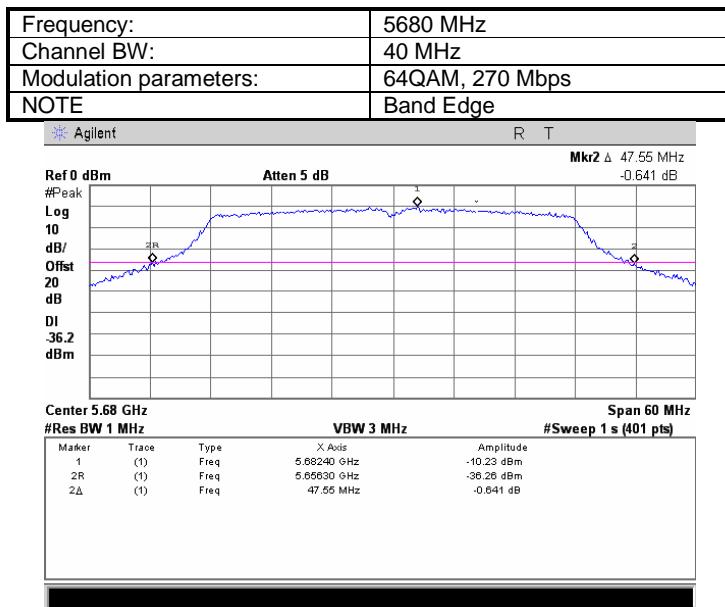
$$\text{EBW} = 47.25 \text{ MHz}$$

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

Plot 7.1.33 Peak spectral power density



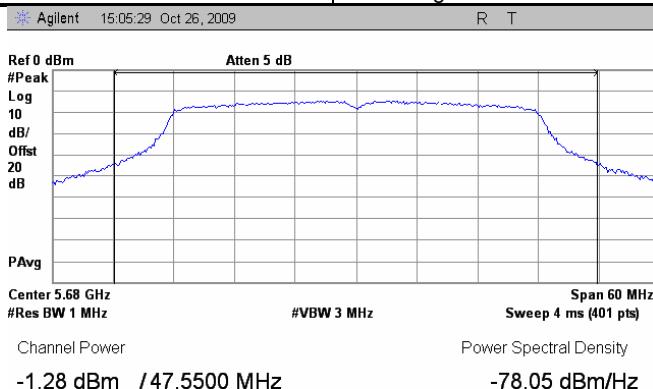
Plot 7.1.34 The 26 dB emission bandwidth



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

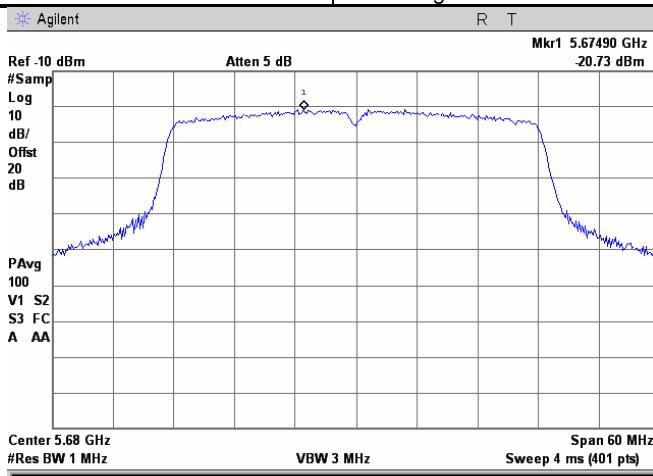
Plot 7.1.35 Peak output power

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



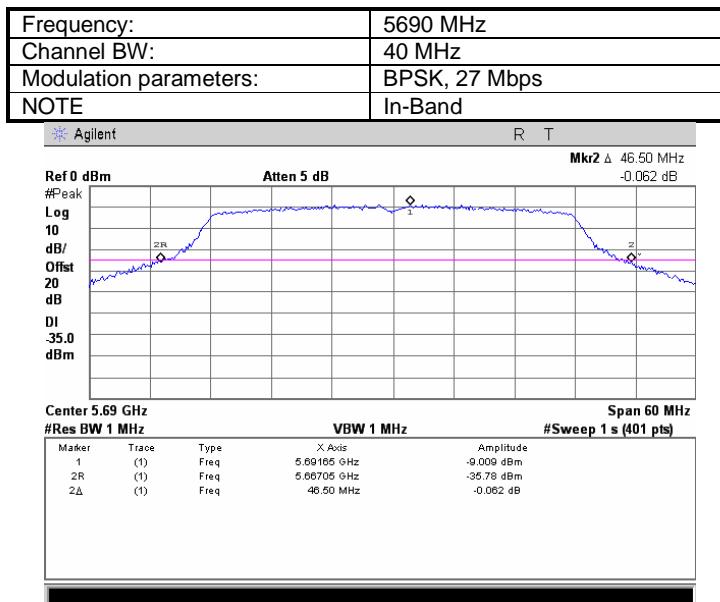
Plot 7.1.36 Peak spectral power density

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

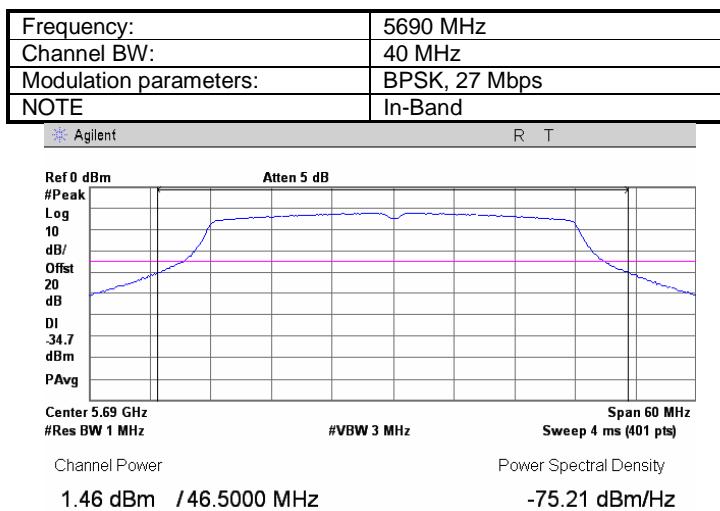


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.37 The 26 dB emission bandwidth

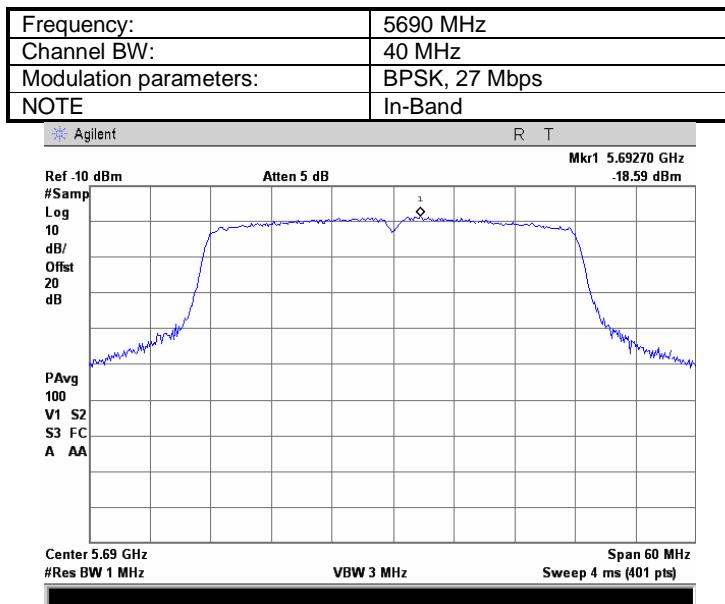


Plot 7.1.38 Peak output power

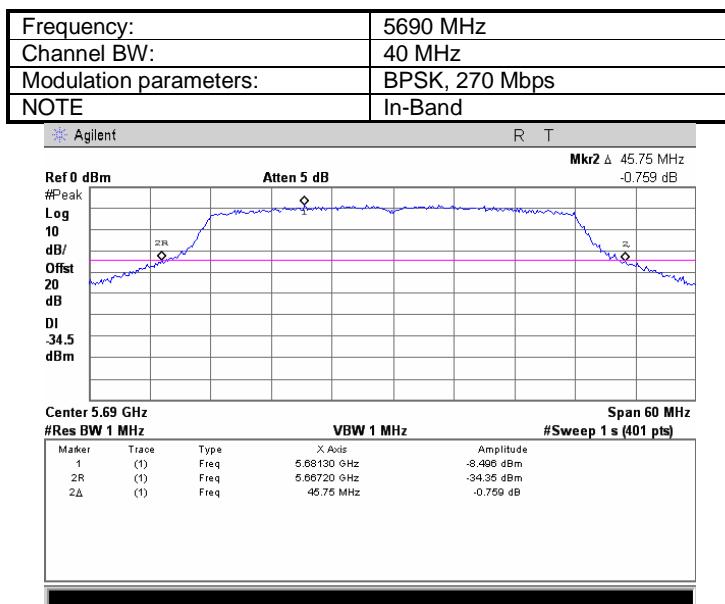


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.39 Peak spectral power density

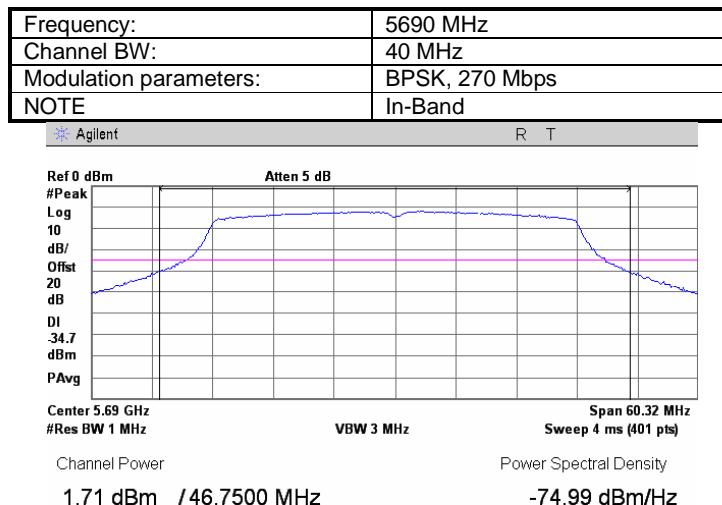


Plot 7.1.40 The 26 dB emission bandwidth



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

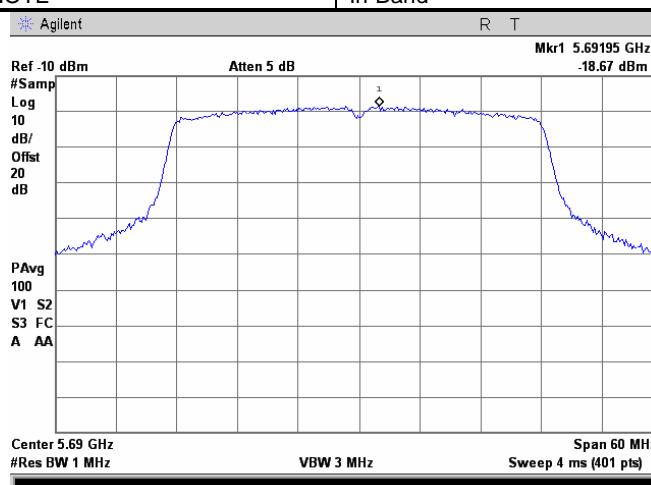
Plot 7.1.41 Peak output power



EBW 45.75MHz

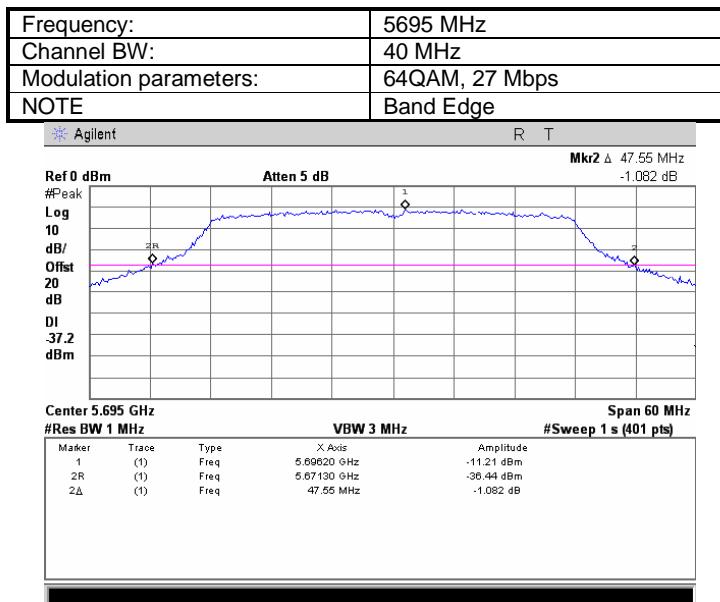
Plot 7.1.42 Peak spectral power density

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

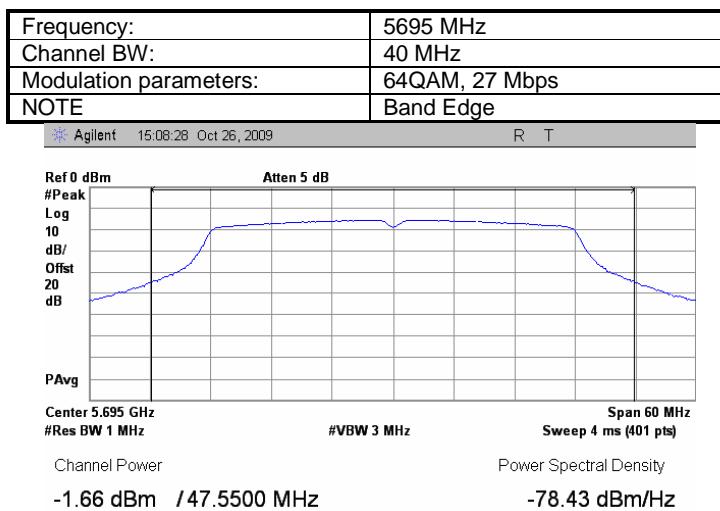


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.43 The 26 dB emission bandwidth

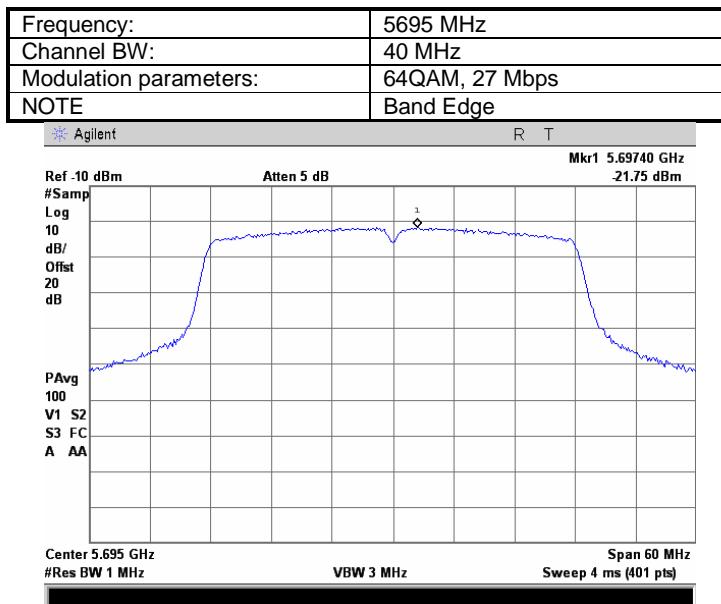


Plot 7.1.44 Peak output power

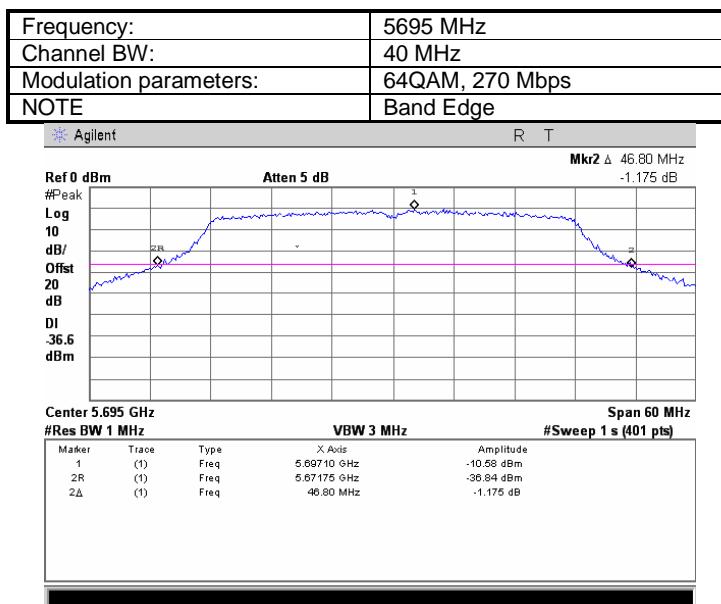


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.45 Peak spectral power density



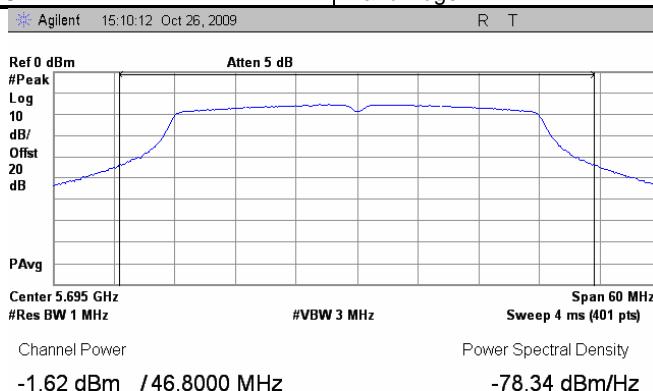
Plot 7.1.46 The 26 dB emission bandwidth



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

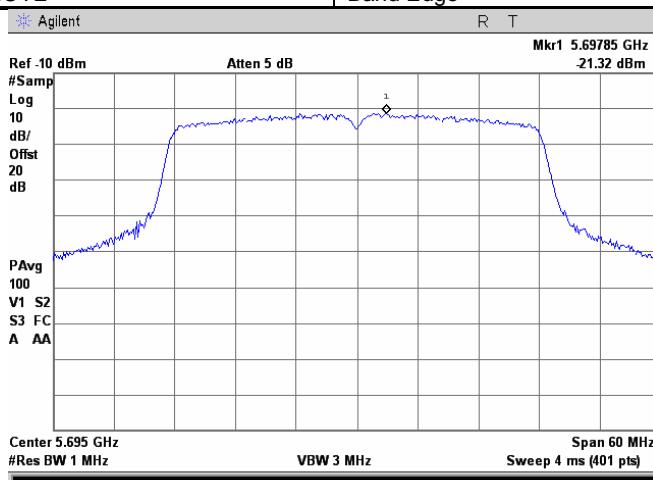
Plot 7.1.47 Peak output power

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



Plot 7.1.48 Peak spectral power density

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





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

Table 7.1.4 Conducted output power test results

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

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

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

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

Reference numbers of test equipment used

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



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

Table 7.1.5 Peak power spectral density test results

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

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

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

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

Reference numbers of test equipment used

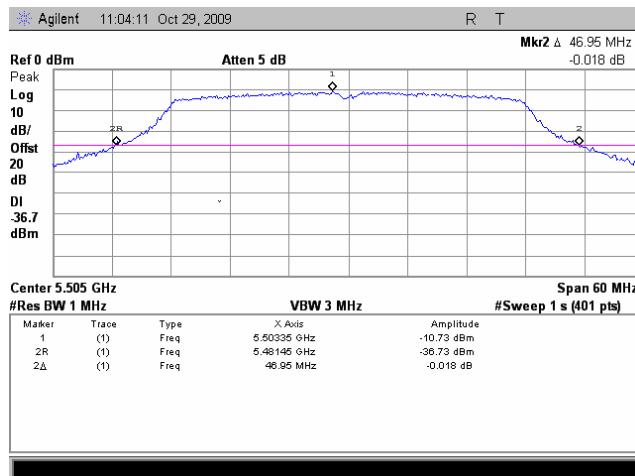
HL2909	HL 2952	HL 3442					
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Full description is given in Appendix A.

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

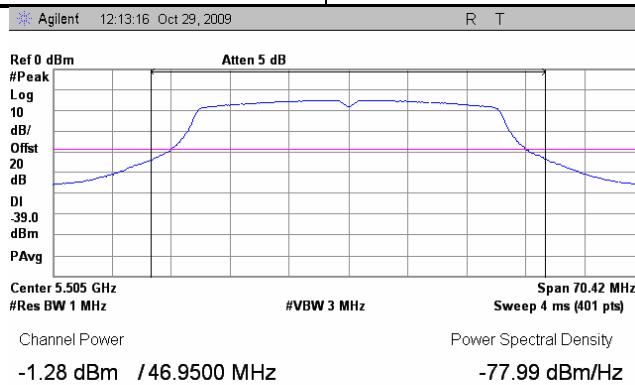
Plot 7.1.49 The 26 dB emission bandwidth

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



Plot 7.1.50 Peak output power

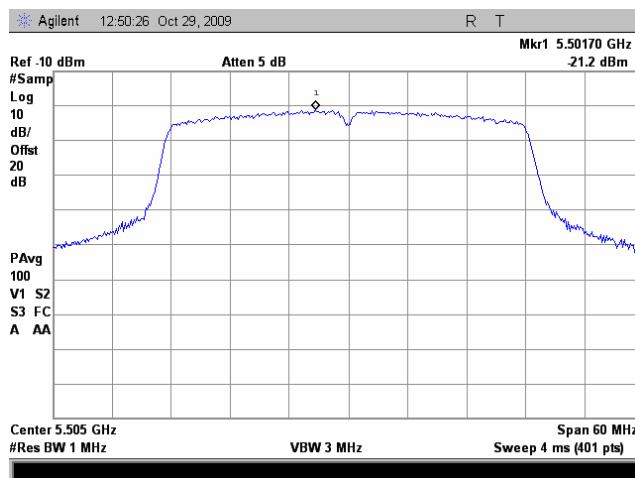
Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



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

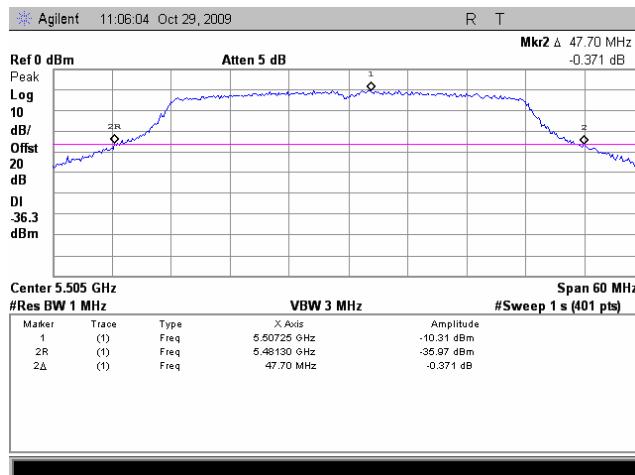
Plot 7.1.51 Peak spectral power density

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



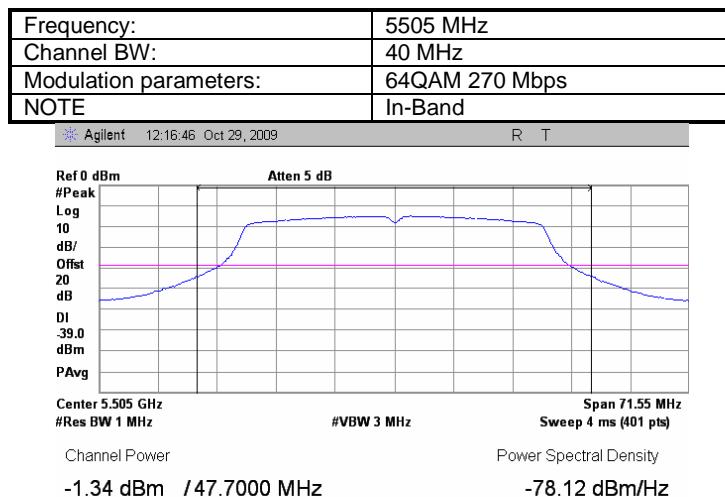
Plot 7.1.52 The 26 dB emission bandwidth

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



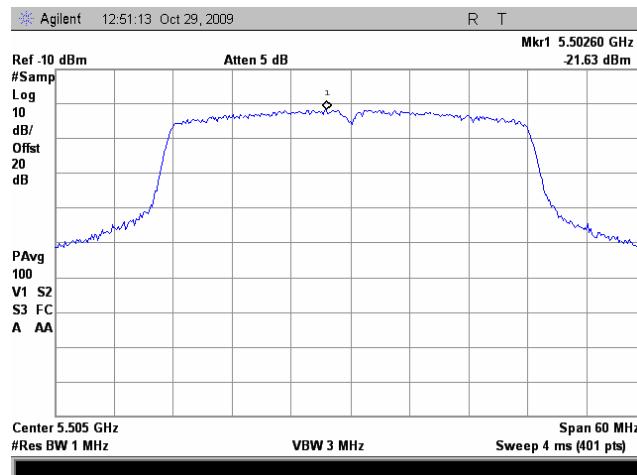
Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/29/2009	PASS	
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.53 Peak output power



Plot 7.1.54 Peak spectral power density

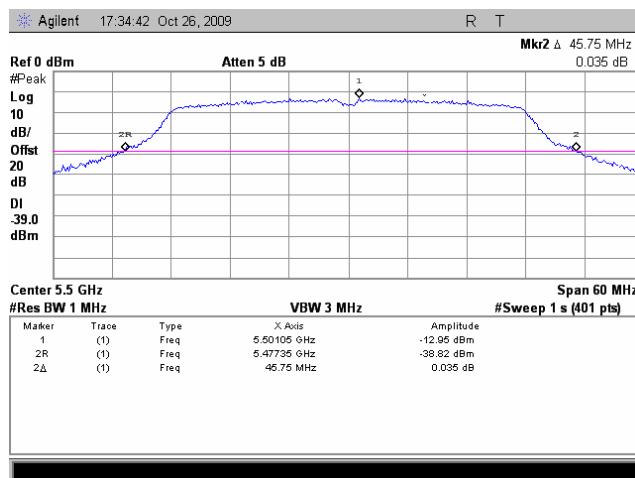
Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM 270 Mbps
NOTE	In-Band



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

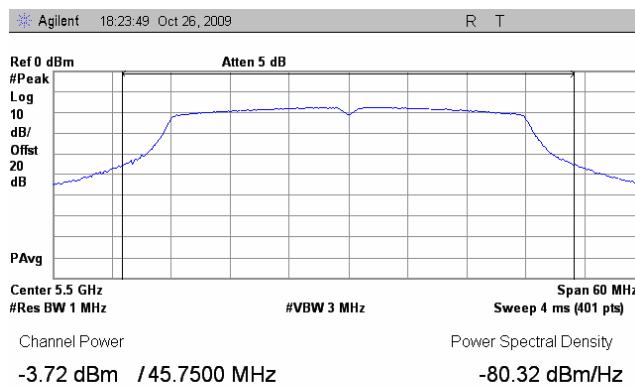
Plot 7.1.55 The 26 dB emission bandwidth

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



Plot 7.1.56 Peak output power

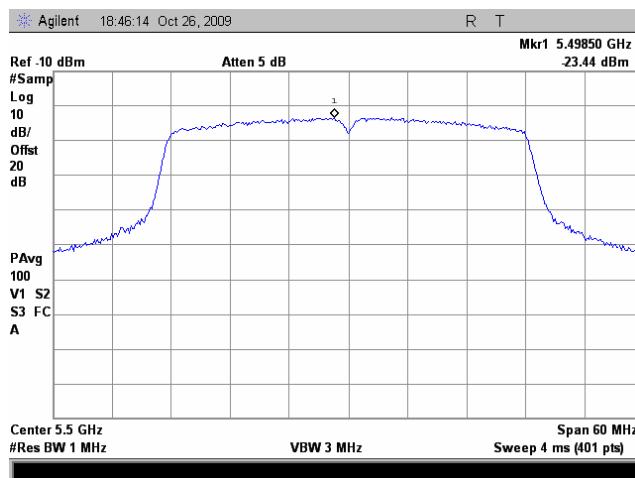
Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



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

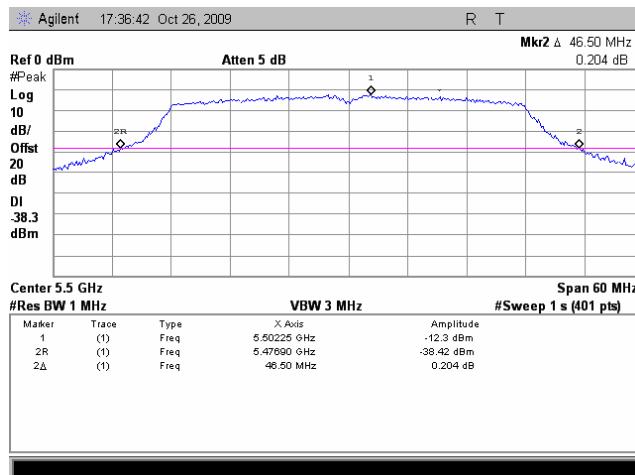
Plot 7.1.57 Peak spectral power density

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



Plot 7.1.58 The 26 dB emission bandwidth

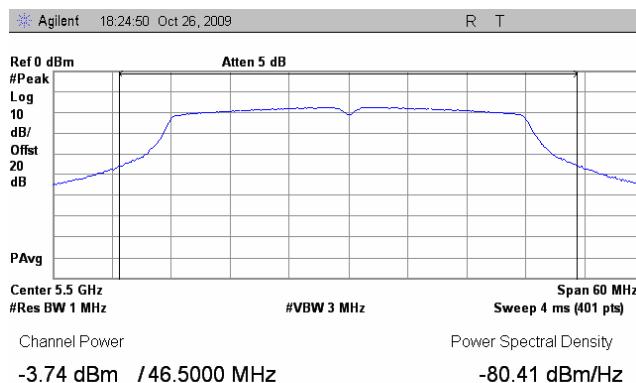
Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

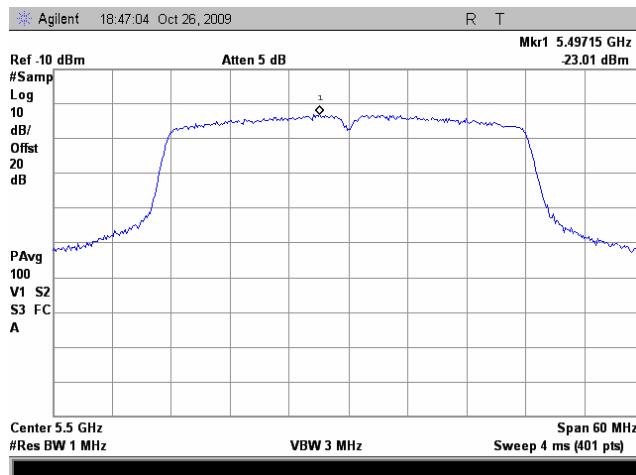
Plot 7.1.59 Peak output power

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



Plot 7.1.60 Peak spectral power density

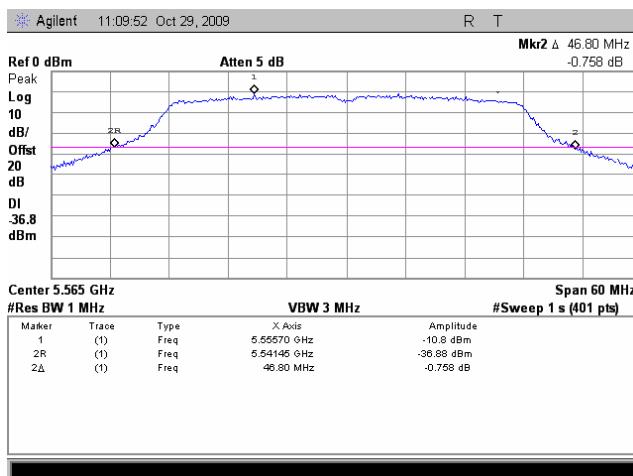
Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

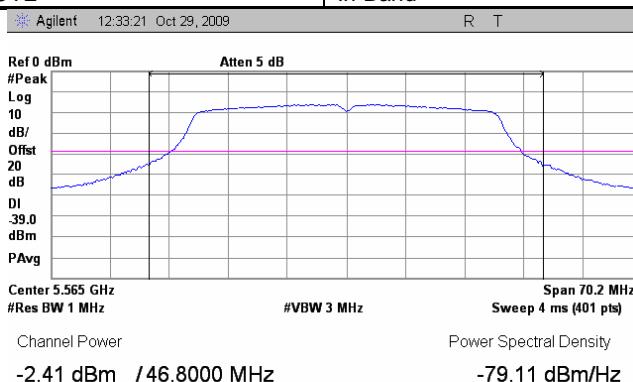
Plot 7.1.61 The 26 dB emission bandwidth

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



Plot 7.1.62 Peak output power

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

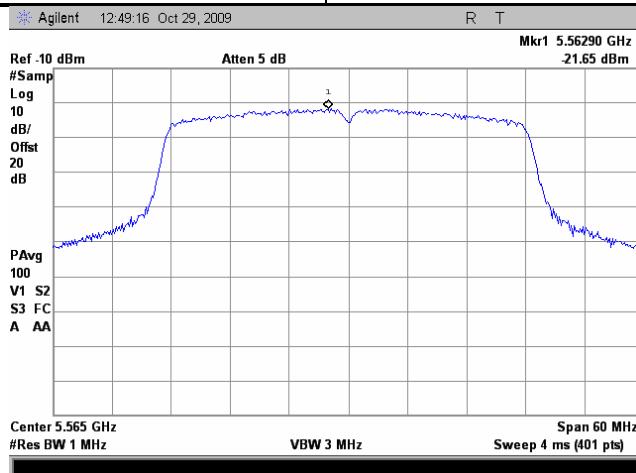




Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	10/29/2009		
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: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

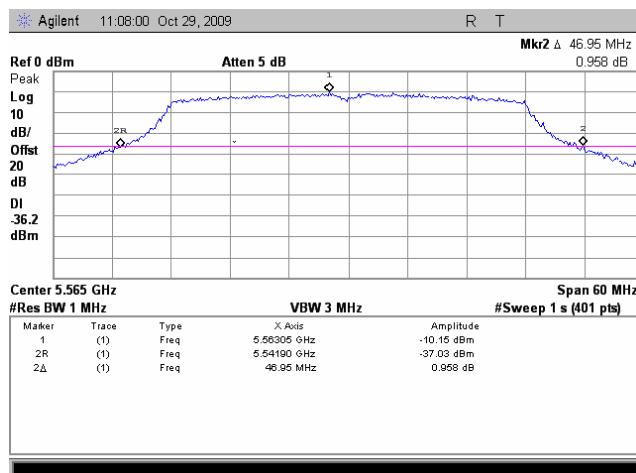
Plot 7.1.63 Peak spectral power density

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



Plot 7.1.64 The 26 dB emission bandwidth

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

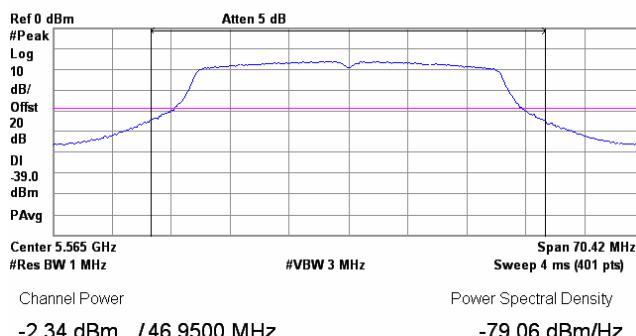


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/29/2009	PASS	
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.65 Peak output power

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

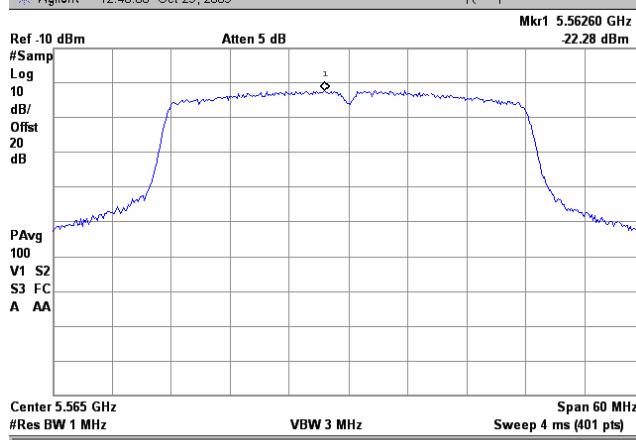
Agilent 12:32:17 Oct 29, 2009 R T



Plot 7.1.66 Peak spectral power density

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

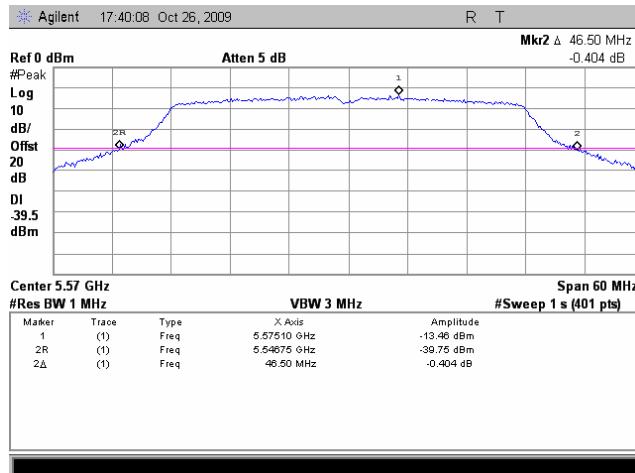
Agilent 12:48:00 Oct 29, 2009 R T



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

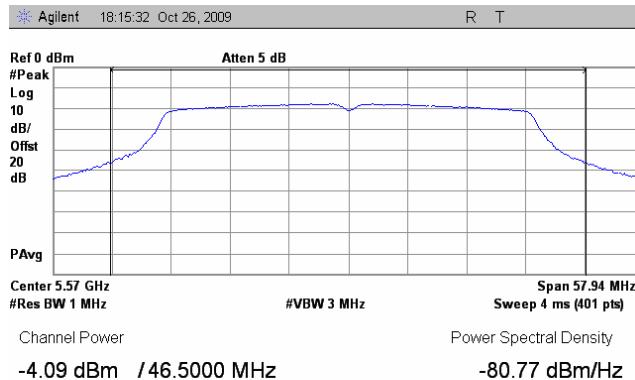
Plot 7.1.67 The 26 dB emission bandwidth

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



Plot 7.1.68 Peak output power

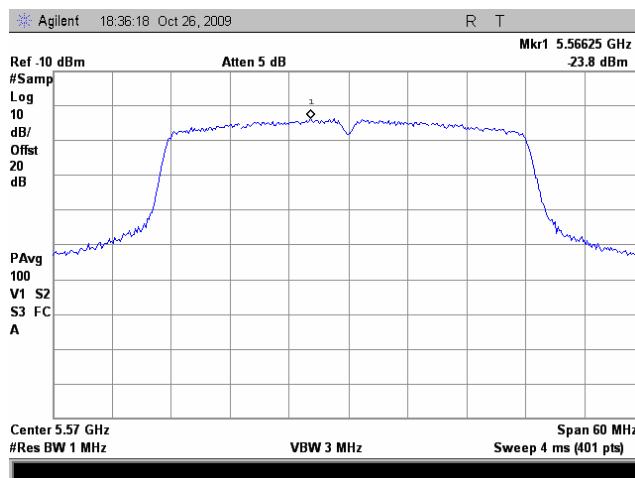
Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



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

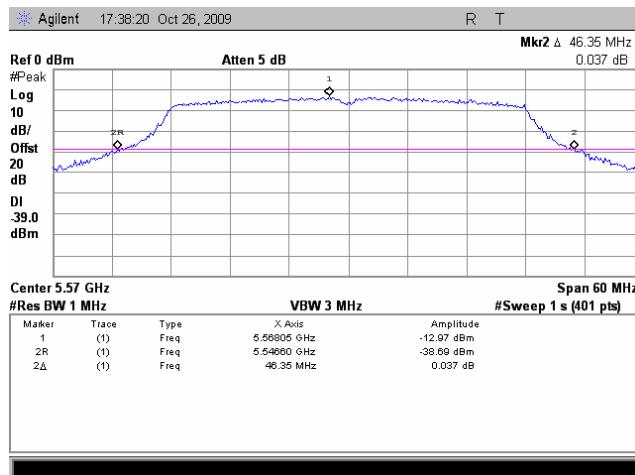
Plot 7.1.69 Peak spectral power density

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



Plot 7.1.70 The 26 dB emission bandwidth

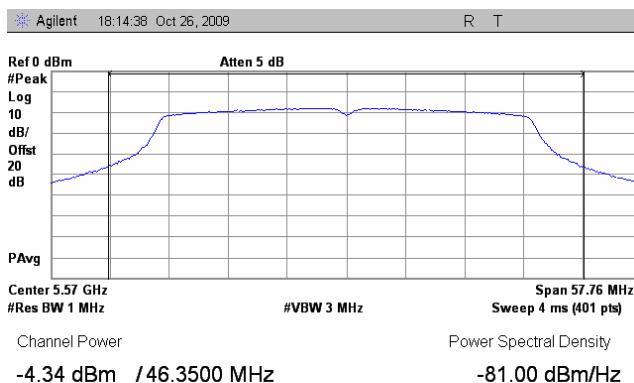
Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

Plot 7.1.71 Peak output power

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



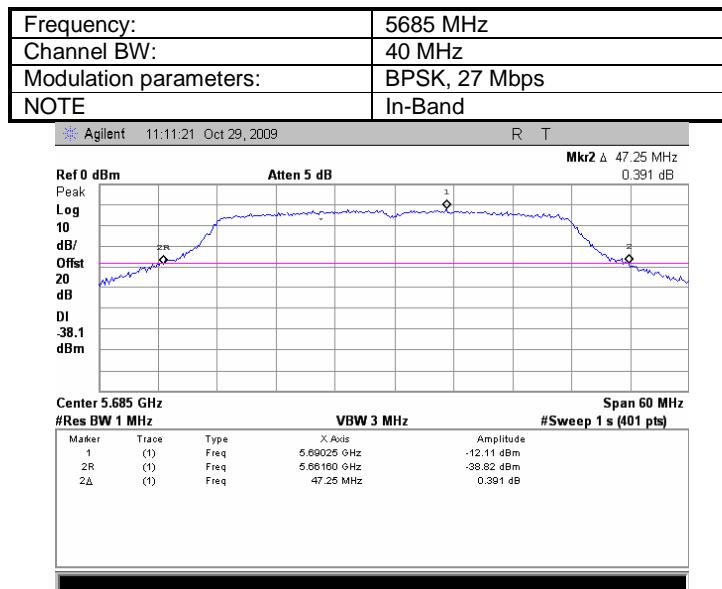
Plot 7.1.72 Peak spectral power density

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



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

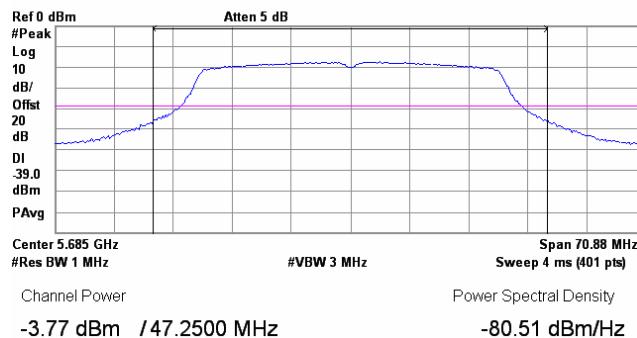
Plot 7.1.73 The 26 dB emission bandwidth



Plot 7.1.74 Peak output power

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

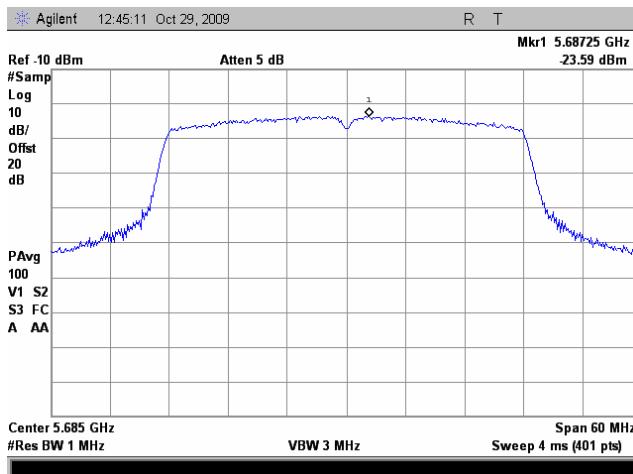
Agilent 12:35:10 Oct 29, 2009
R T



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

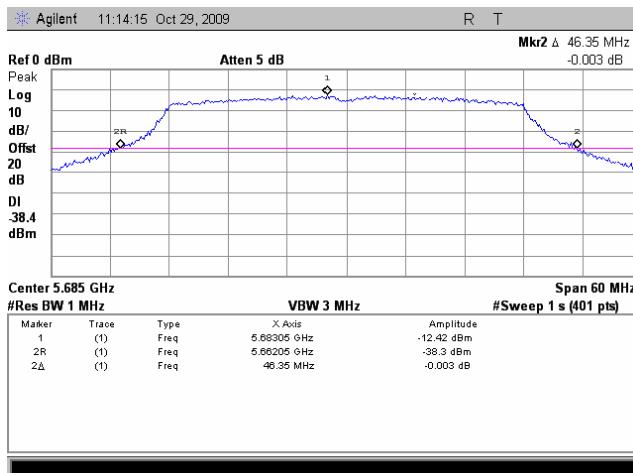
Plot 7.1.75 Peak spectral power density

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



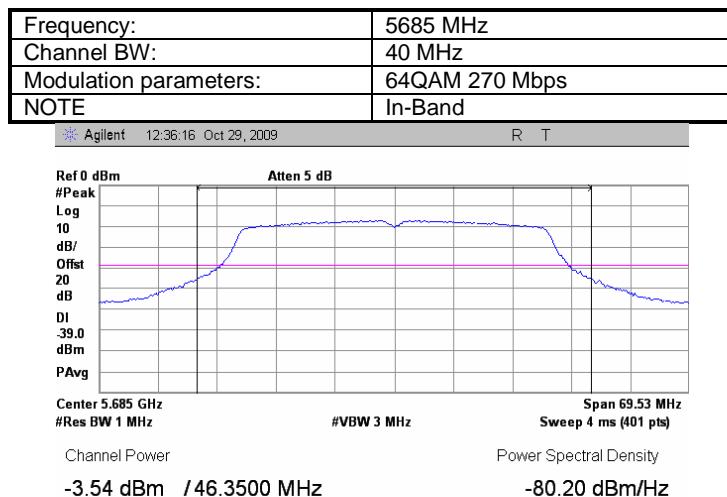
Plot 7.1.76 The 26 dB emission bandwidth

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



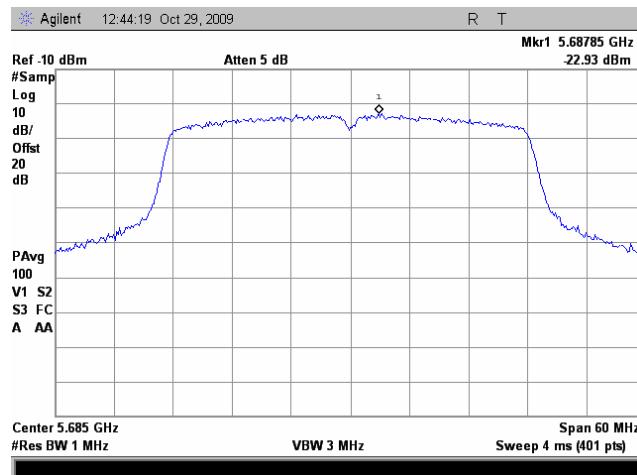
Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/29/2009	PASS	
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.77 Peak output power



Plot 7.1.78 Peak spectral power density

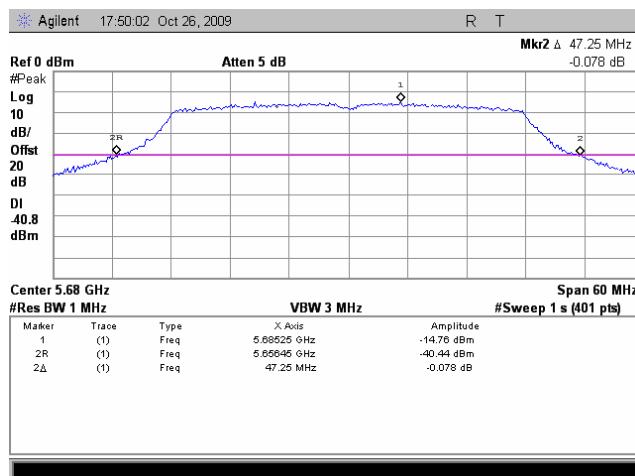
Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM 270 Mbps
NOTE	In-Band



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

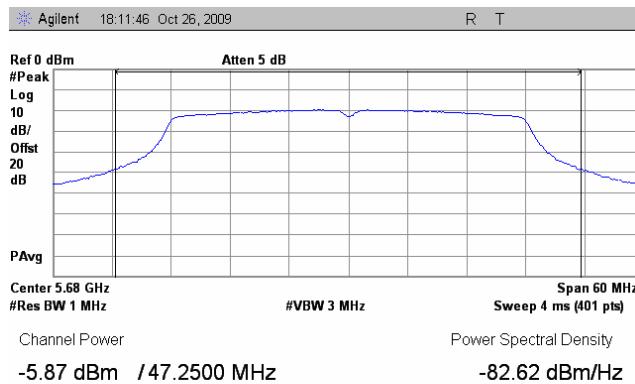
Plot 7.1.79 The 26 dB emission bandwidth

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



Plot 7.1.80 Peak output power

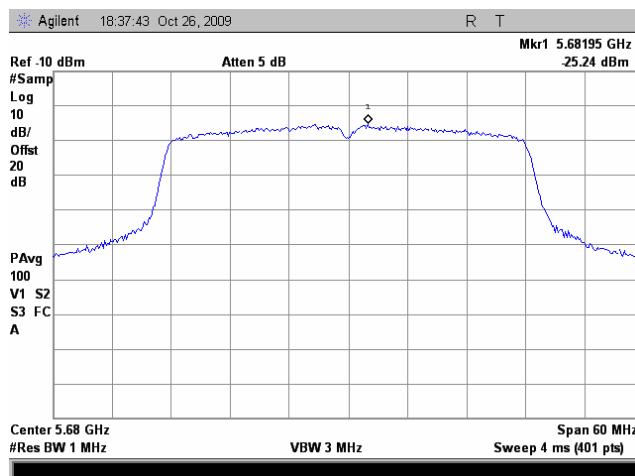
Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



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

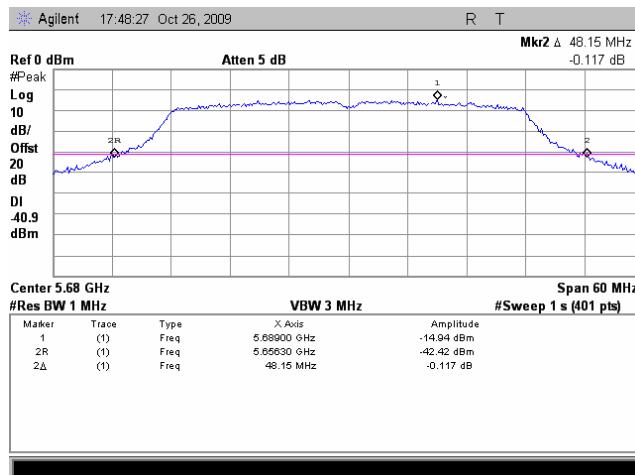
Plot 7.1.81 Peak spectral power density

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



Plot 7.1.82 The 26 dB emission bandwidth

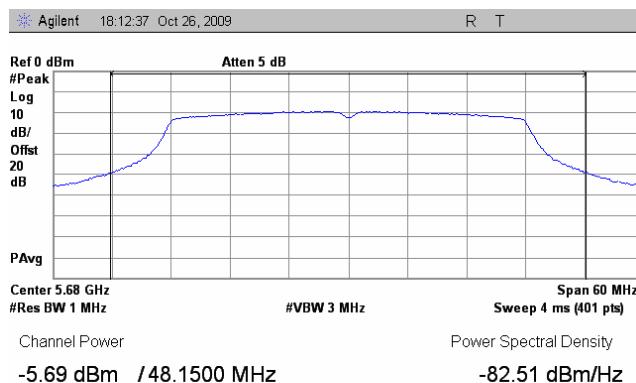
Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

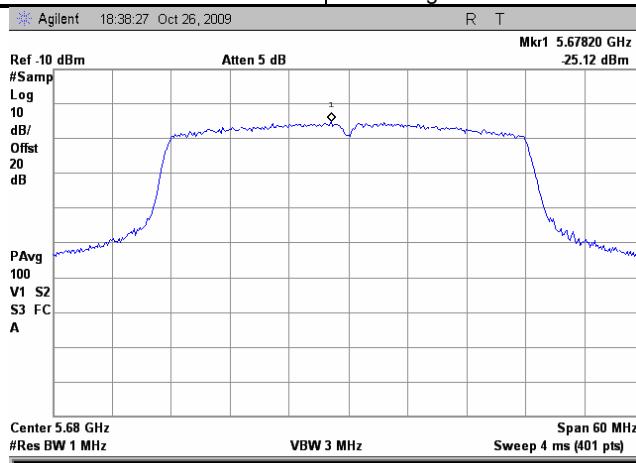
Plot 7.1.83 Peak output power

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



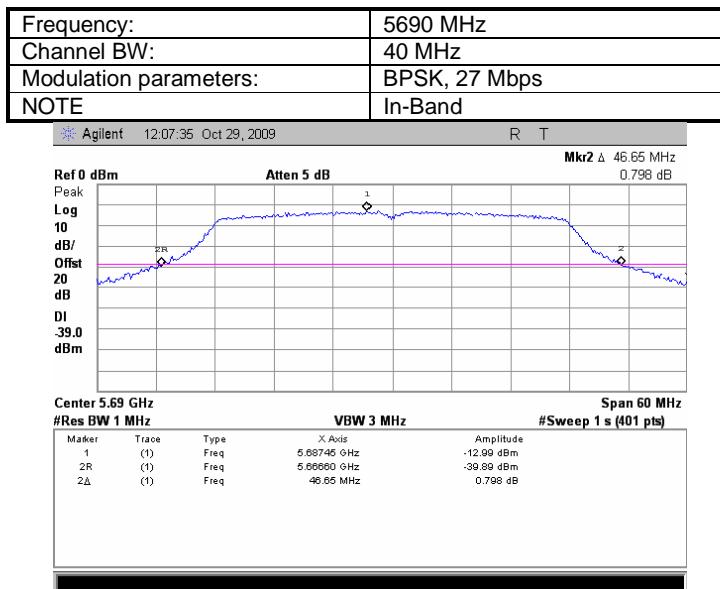
Plot 7.1.84 Peak spectral power density

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



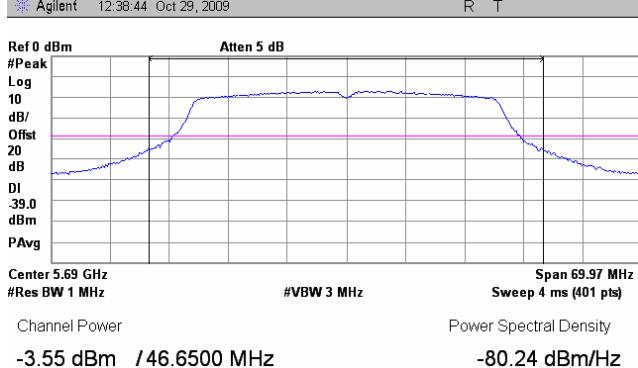
Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/29/2009	PASS	
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.85 The 26 dB emission bandwidth



Plot 7.1.86 Peak output power

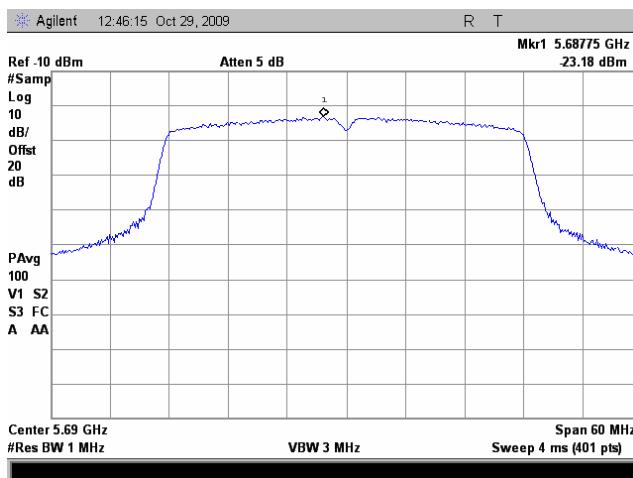
Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



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

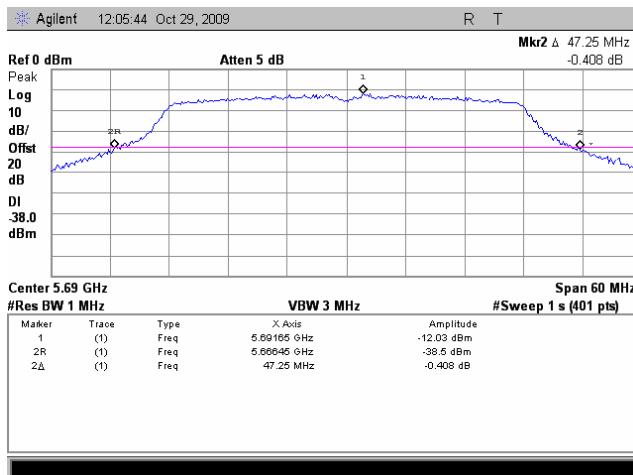
Plot 7.1.87 Peak spectral power density

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



Plot 7.1.88 The 26 dB emission bandwidth

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

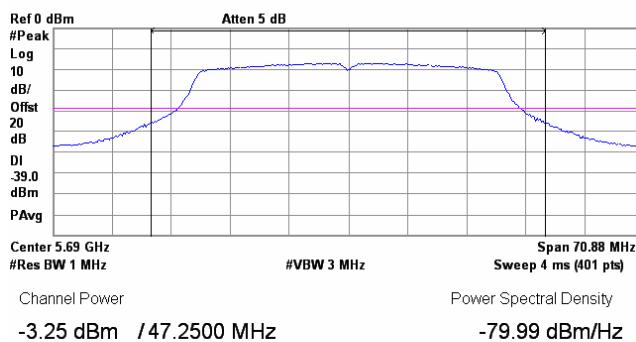


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/29/2009	PASS	
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.89 Peak output power

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

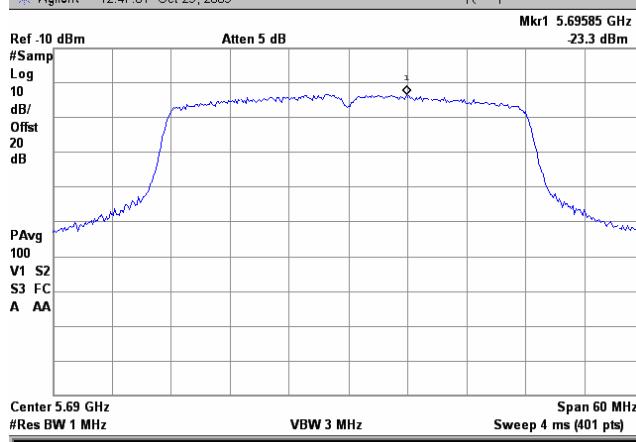
Agilent 12:37:53 Oct 29, 2009 R T



Plot 7.1.90 Peak spectral power density

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

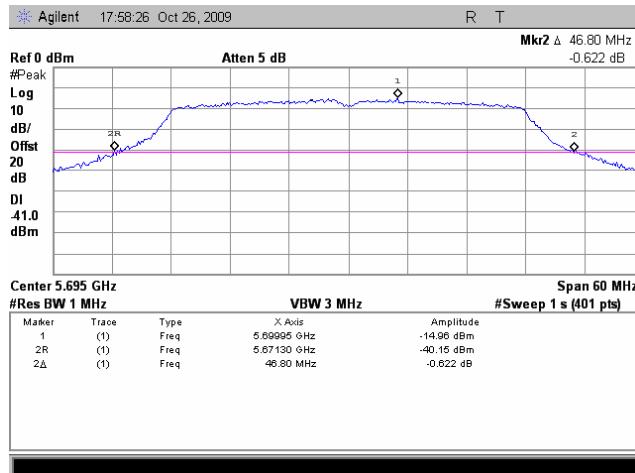
Agilent 12:47:01 Oct 29, 2009 R T



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

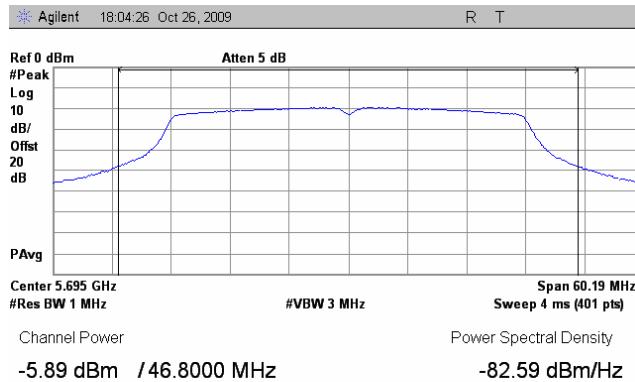
Plot 7.1.91 The 26 dB emission bandwidth

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



Plot 7.1.92 Peak output power

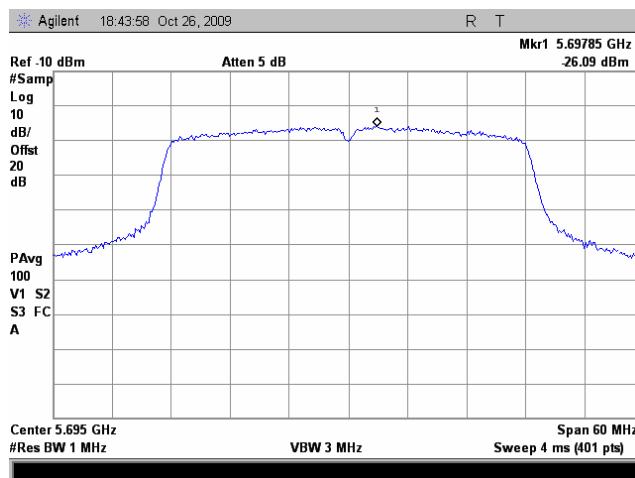
Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



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

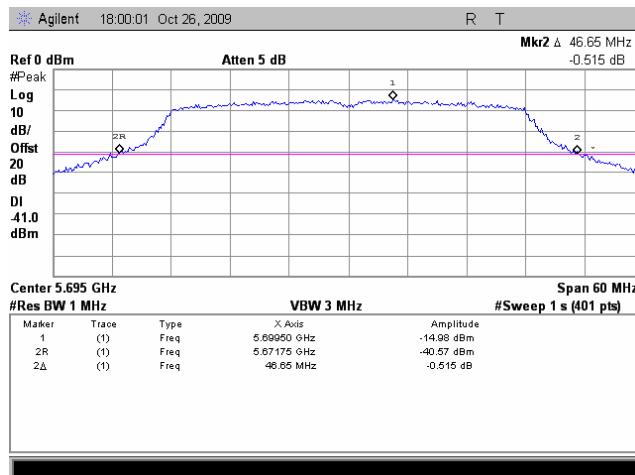
Plot 7.1.93 Peak spectral power density

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



Plot 7.1.94 The 26 dB emission bandwidth

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

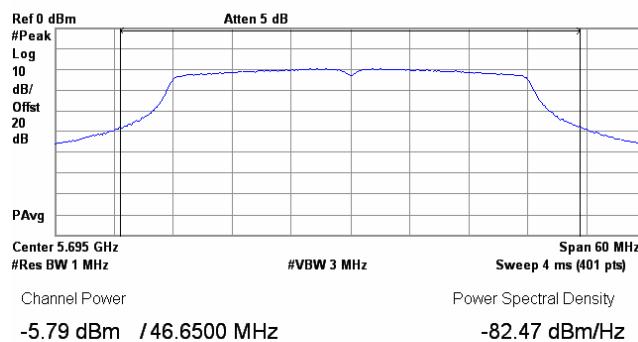


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/29/2009	PASS	
Temperature: 24 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.95 Peak output power

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

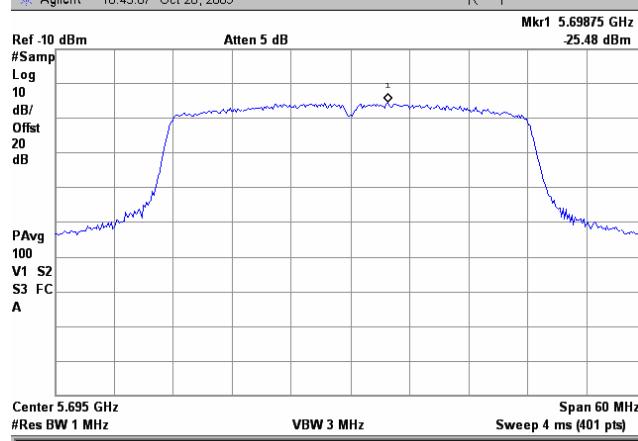
Agilent 18:03:13 Oct 26, 2009 R T



Plot 7.1.96 Peak spectral power density

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

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



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

Table 7.1.6 Conducted output power test results

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

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

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

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

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

Table 7.1.7 Conducted output power test results

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

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

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

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

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

Table 7.1.8 Conducted output power test results

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

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

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

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

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

Table 7.1.9 Conducted output power test results

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

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

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

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

Reference numbers of test equipment used

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

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

Table 7.1.10 Peak power spectral density test results

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

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

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

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

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

Table 7.1.11 Peak power spectral density test results

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

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

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

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

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

Table 7.1.12 Peak power spectral density test results

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

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

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

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

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

Table 7.1.13 Peak power spectral density test results

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

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

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

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

Reference numbers of test equipment used

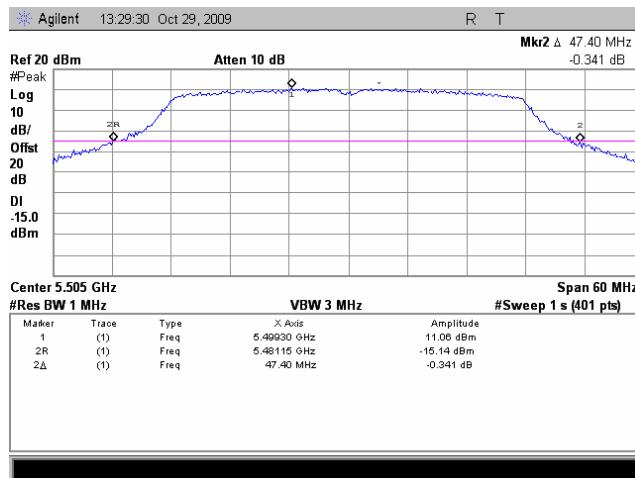
HL2909	HL 2952	HL 3442					
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Full description is given in Appendix A.

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

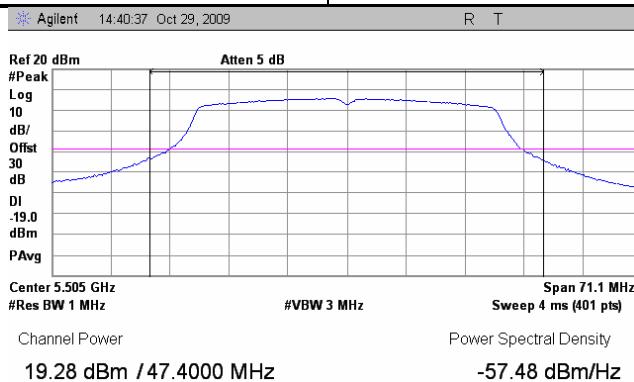
Plot 7.1.97 The 26 dB emission bandwidth

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



Plot 7.1.98 Peak output power

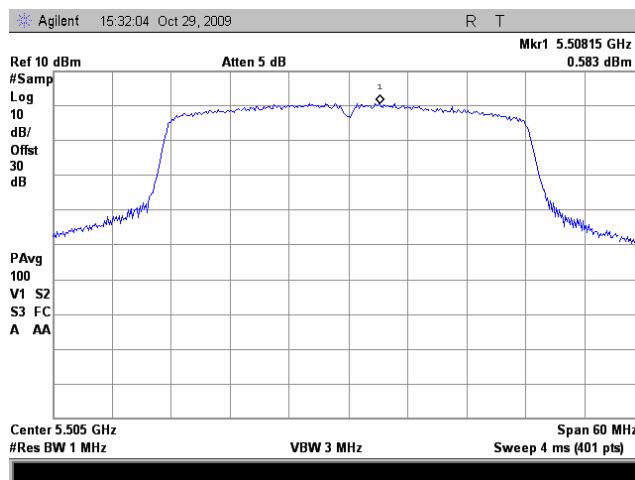
Frequency:	5505 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



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

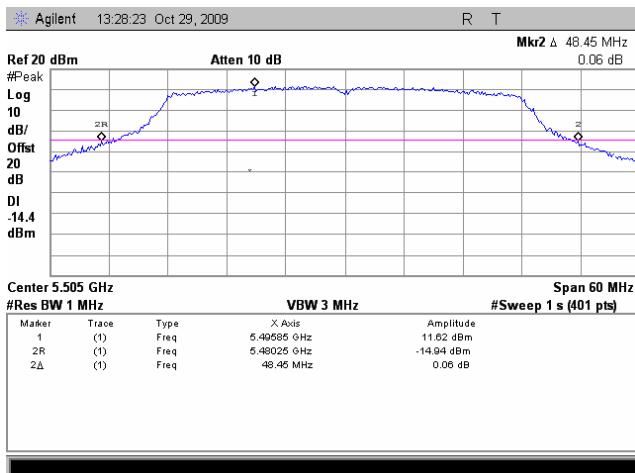
Plot 7.1.99 Peak spectral power density

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



Plot 7.1.100 The 26 dB emission bandwidth

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

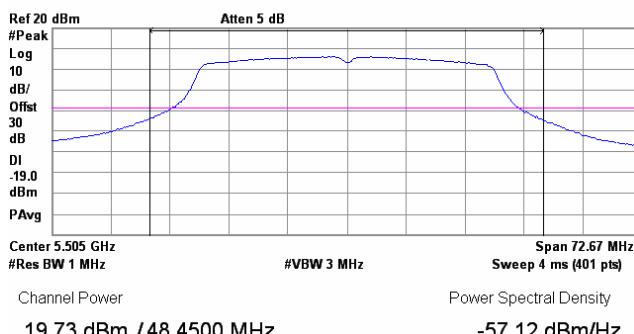


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.101 Peak output power

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

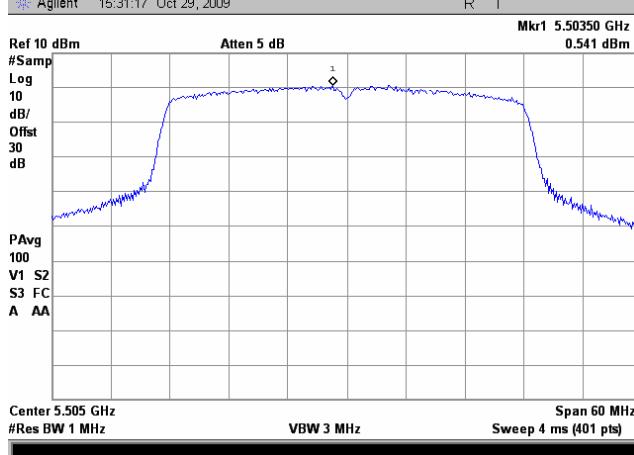
Agilent 14:45:29 Oct 29, 2009 R T



Plot 7.1.102 Peak spectral power density

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

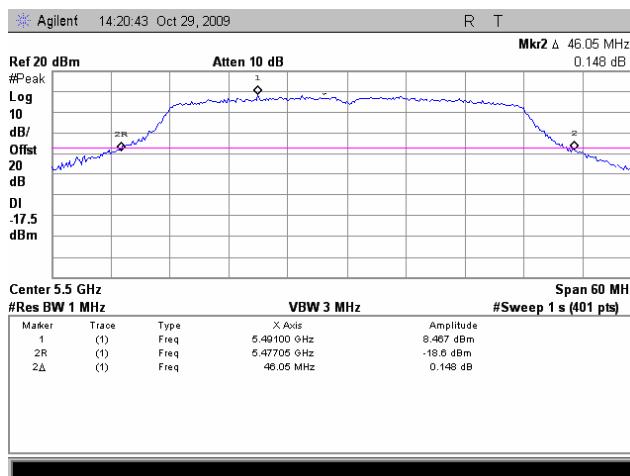
Agilent 15:31:17 Oct 29, 2009 R T



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

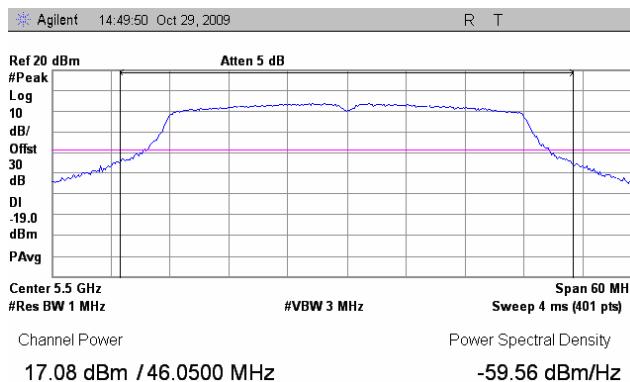
Plot 7.1.103 The 26 dB emission bandwidth

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



Plot 7.1.104 Peak output power

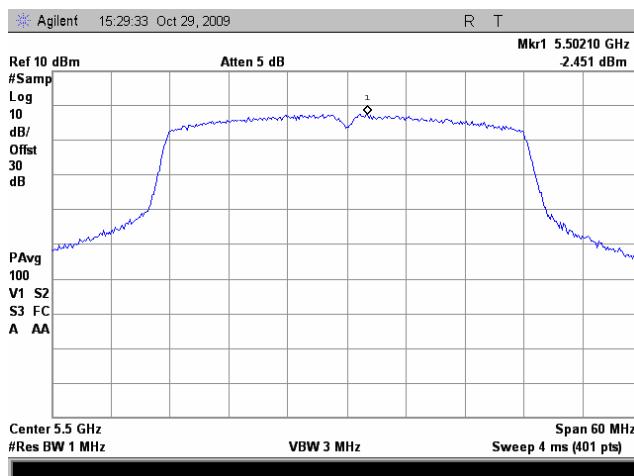
Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



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

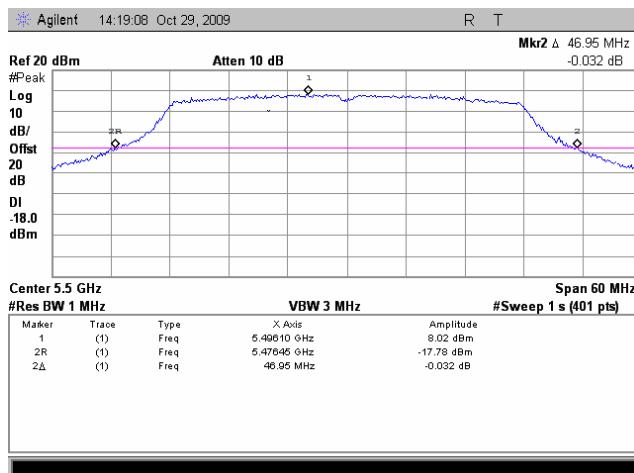
Plot 7.1.105 Peak spectral power density

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



Plot 7.1.106 The 26 dB emission bandwidth

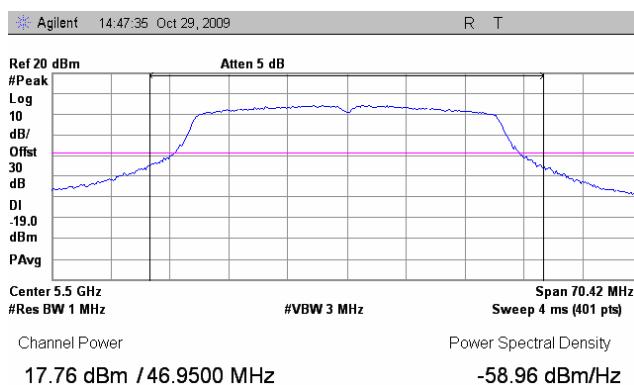
Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

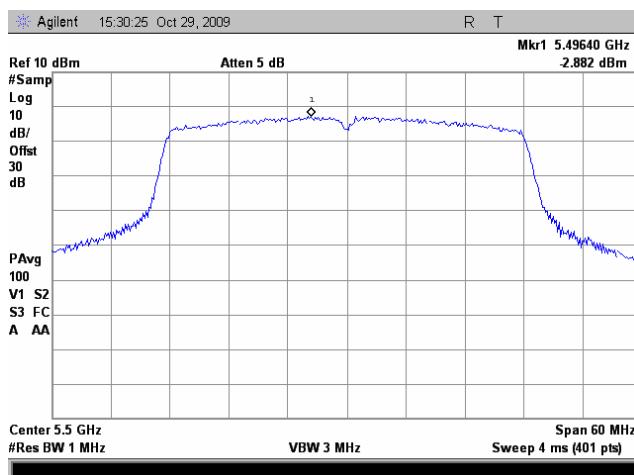
Plot 7.1.107 Peak output power

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



Plot 7.1.108 Peak spectral power density

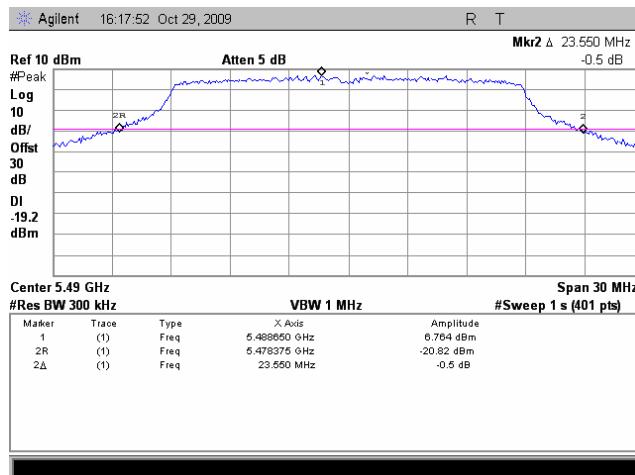
Frequency:	5500 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

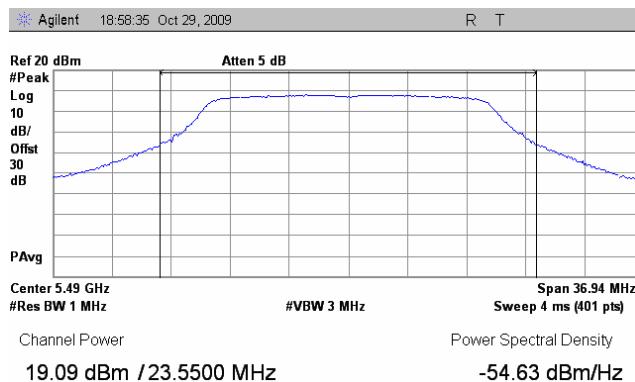
Plot 7.1.109 The 26 dB emission bandwidth

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



Plot 7.1.110 Peak output power

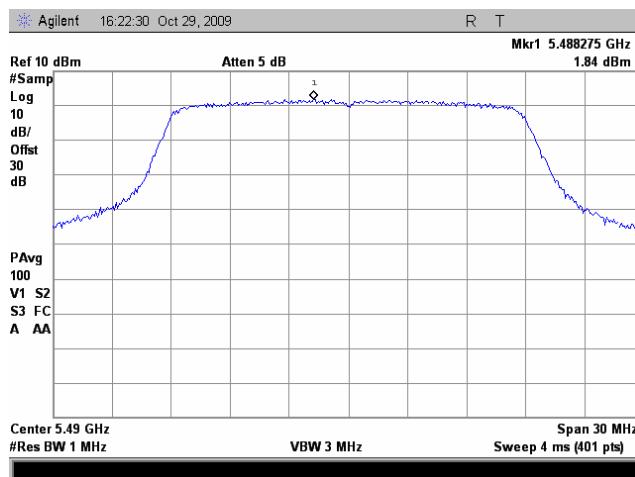
Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



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

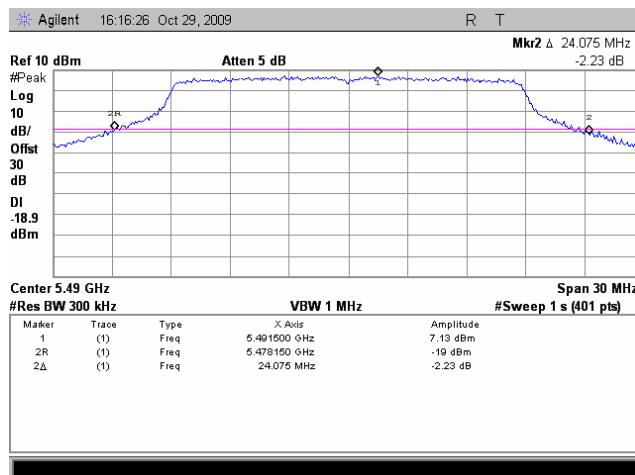
Plot 7.1.111 Peak spectral power density

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



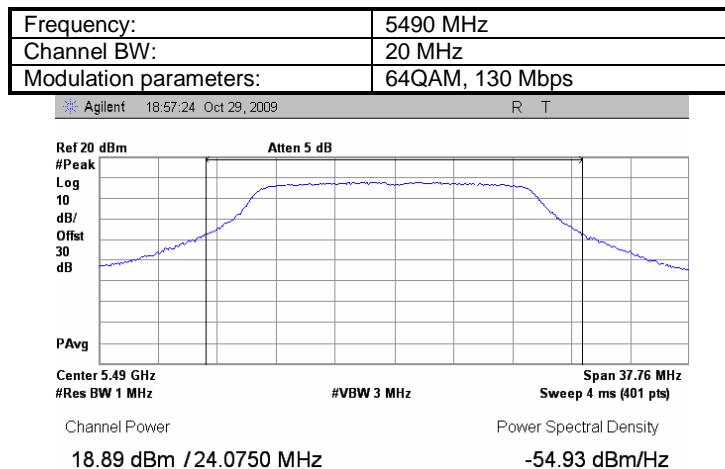
Plot 7.1.112 The 26 dB emission bandwidth

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



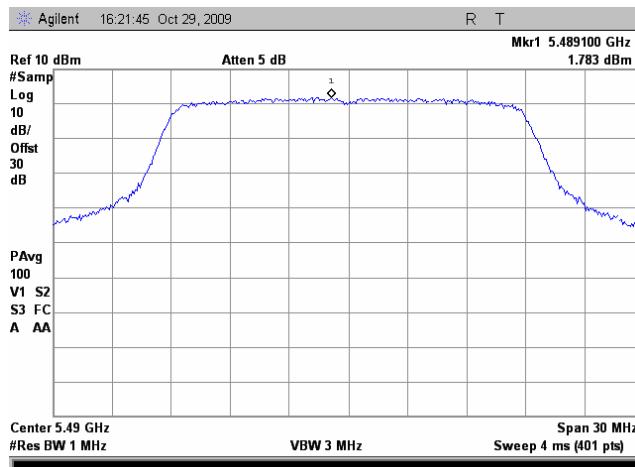
Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.113 Peak output power



Plot 7.1.114 Peak spectral power density

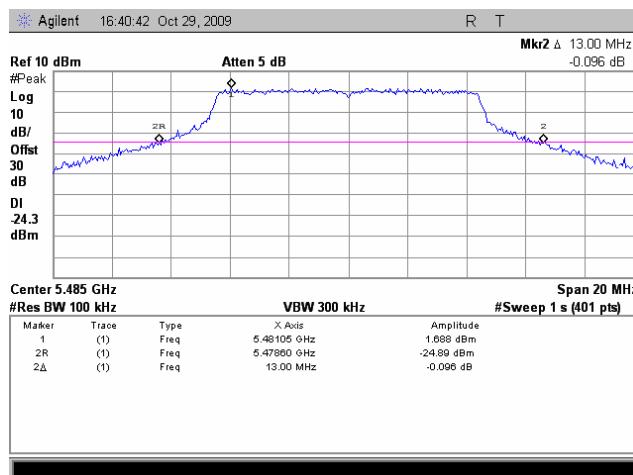
Frequency:	5490 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



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

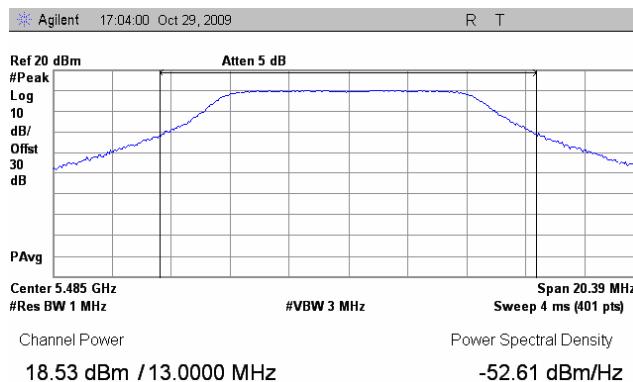
Plot 7.1.115 The 26 dB emission bandwidth

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



Plot 7.1.116 Peak output power

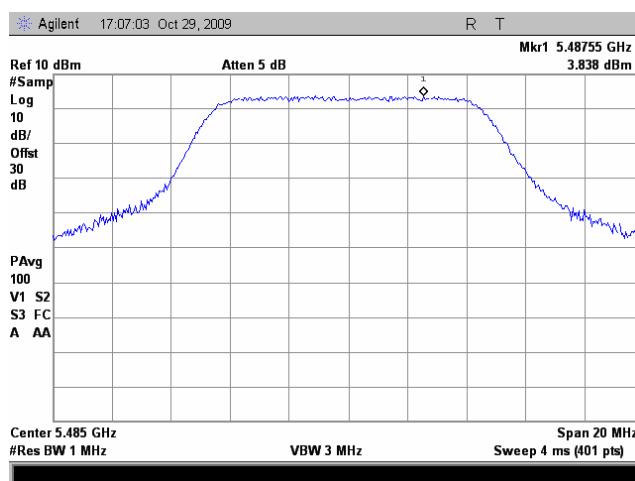
Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



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

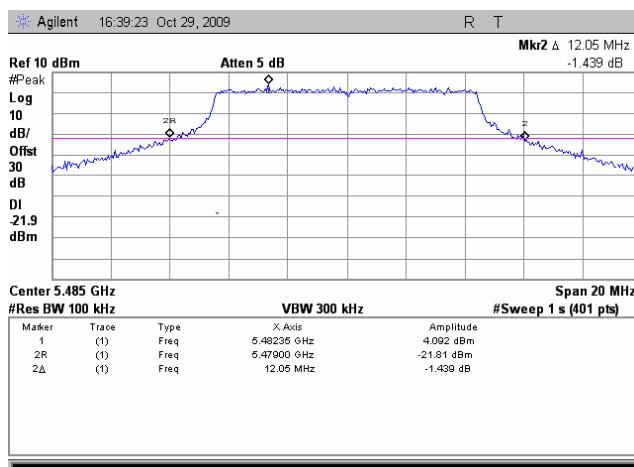
Plot 7.1.117 Peak spectral power density

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



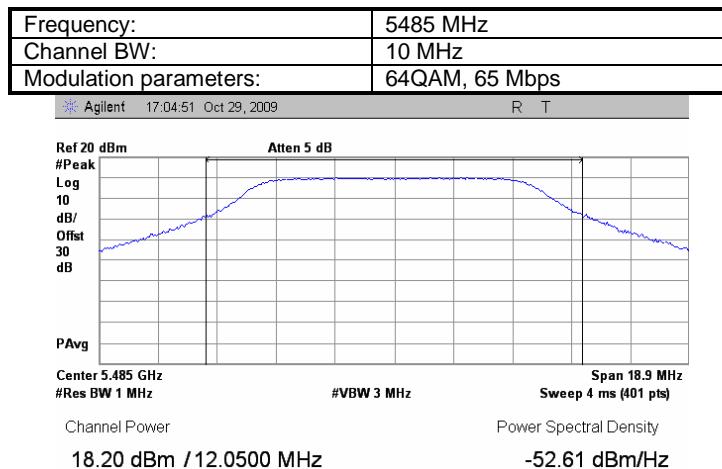
Plot 7.1.118 The 26 dB emission bandwidth

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



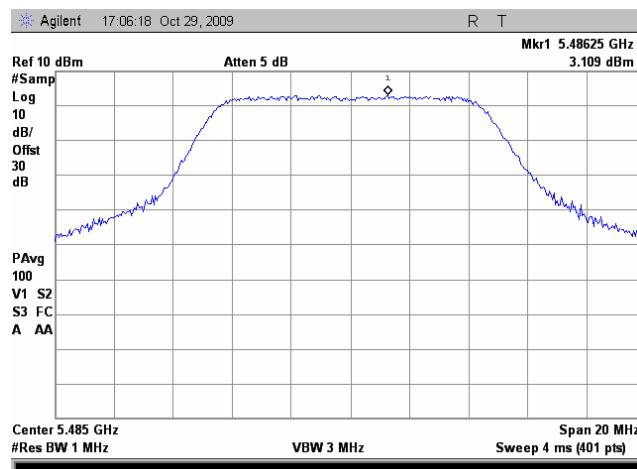
Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.119 Peak output power



Plot 7.1.120 Peak spectral power density

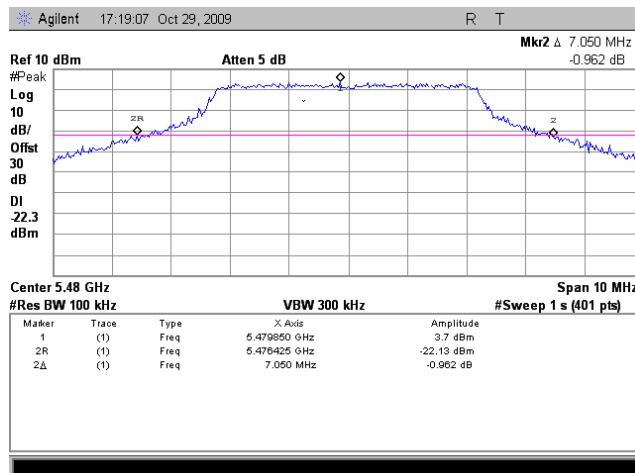
Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



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

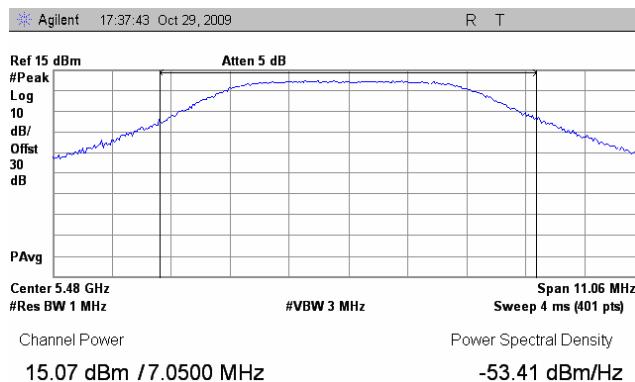
Plot 7.1.121 The 26 dB emission bandwidth

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



Plot 7.1.122 Peak output power

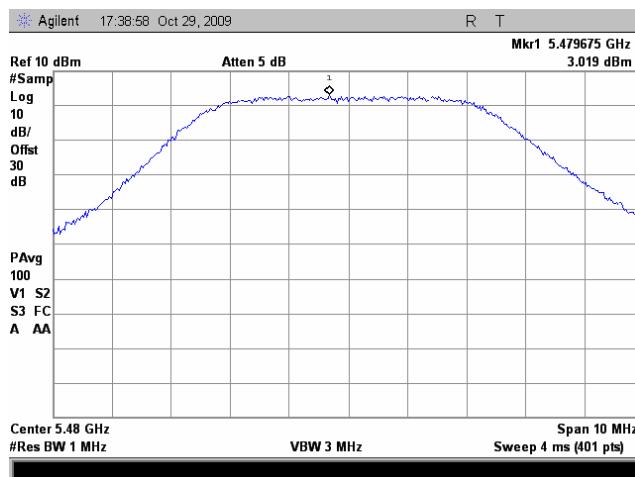
Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



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

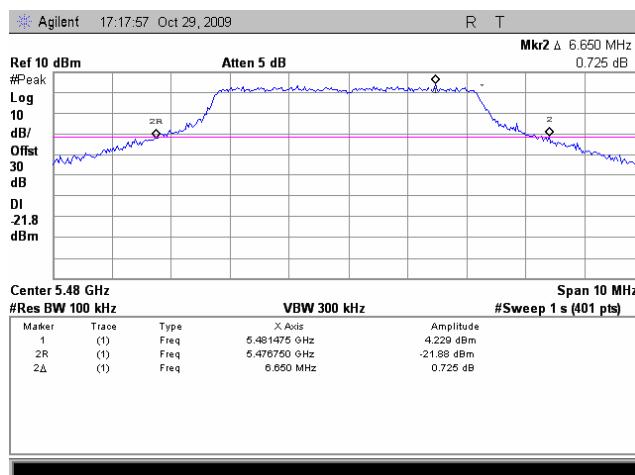
Plot 7.1.123 Peak spectral power density

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



Plot 7.1.124 The 26 dB emission bandwidth

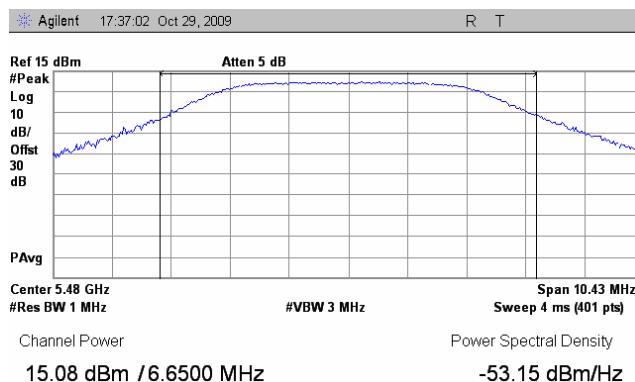
Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



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

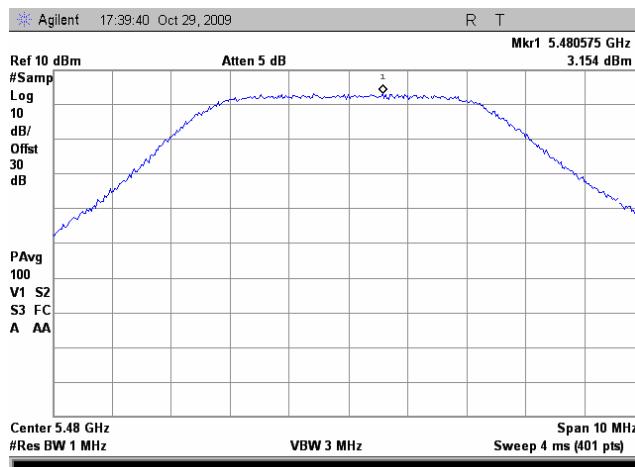
Plot 7.1.125 Peak output power

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



Plot 7.1.126 Peak spectral power density

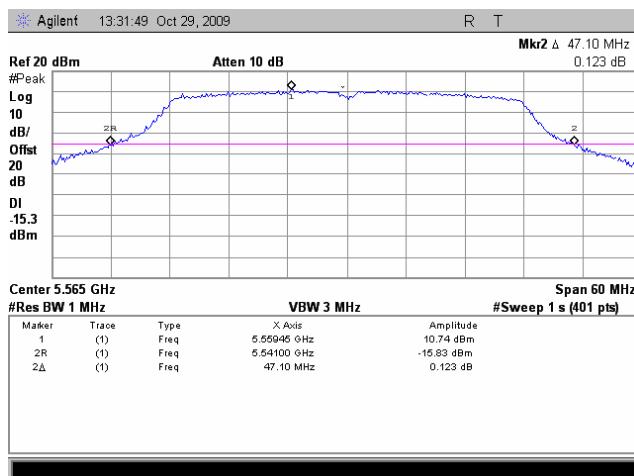
Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



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

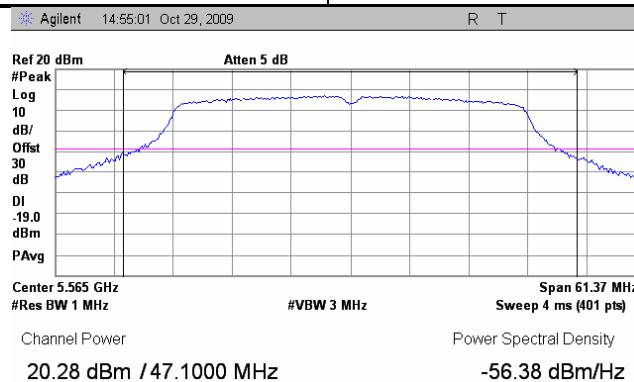
Plot 7.1.127 The 26 dB emission bandwidth

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



Plot 7.1.128 Peak output power

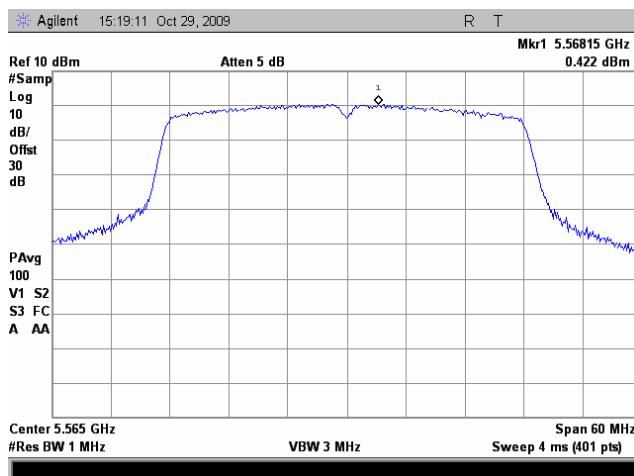
Frequency:	5565 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



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

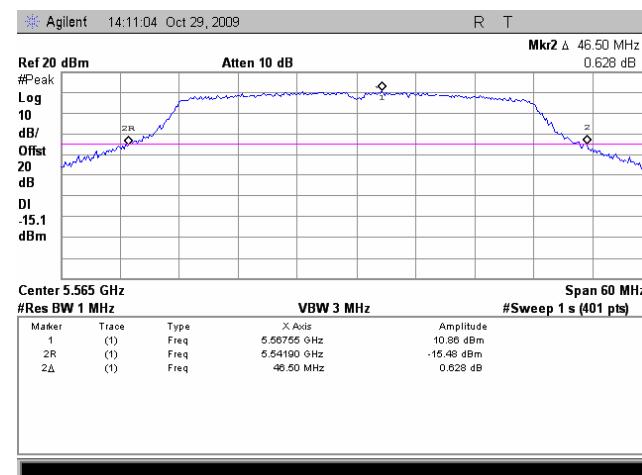
Plot 7.1.129 Peak spectral power density

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



Plot 7.1.130 The 26 dB emission bandwidth

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

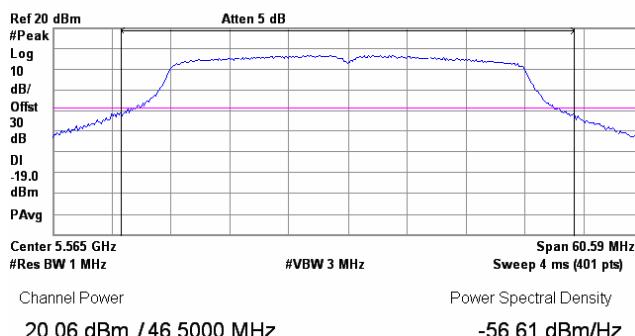


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.131 Peak output power

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

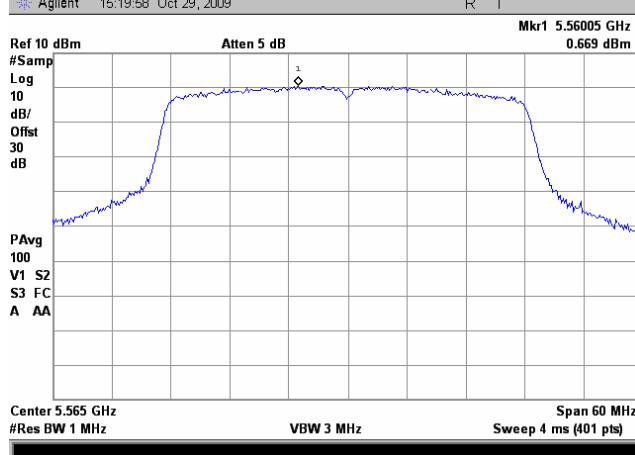
Agilent 14:54:06 Oct 29, 2009 R T



Plot 7.1.132 Peak spectral power density

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

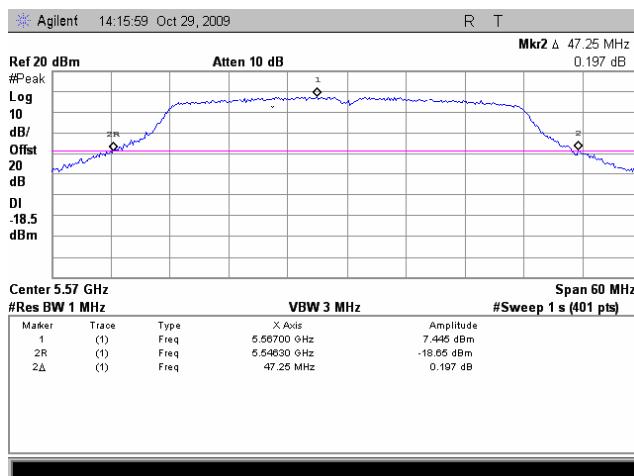
Agilent 15:19:58 Oct 29, 2009 R T



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

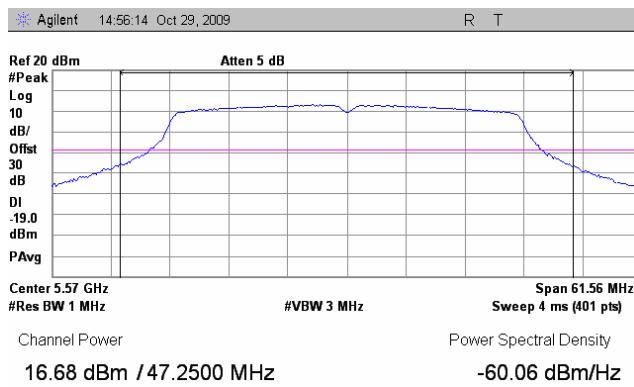
Plot 7.1.133 The 26 dB emission bandwidth

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



Plot 7.1.134 Peak output power

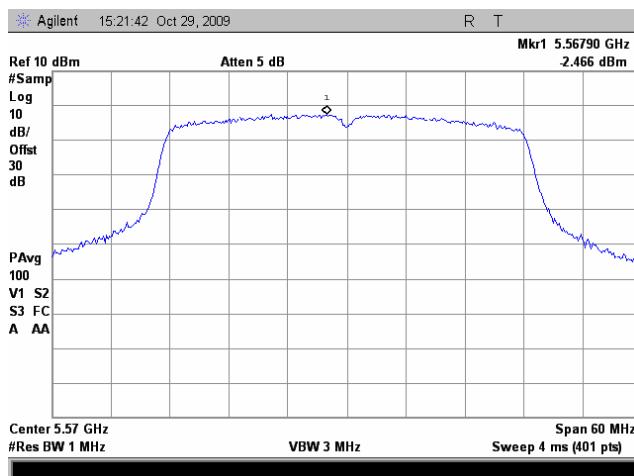
Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



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

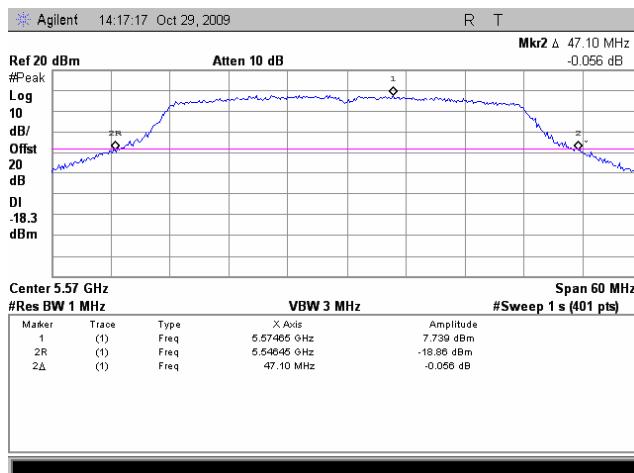
Plot 7.1.135 Peak spectral power density

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



Plot 7.1.136 The 26 dB emission bandwidth

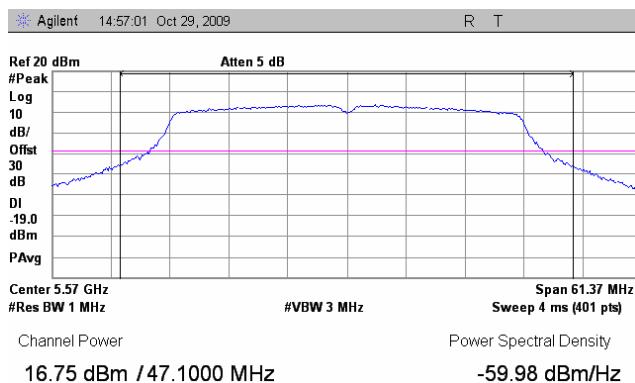
Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

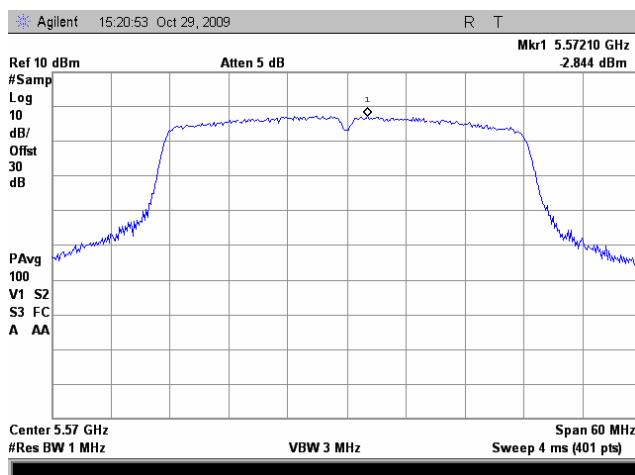
Plot 7.1.137 Peak output power

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



Plot 7.1.138 Peak spectral power density

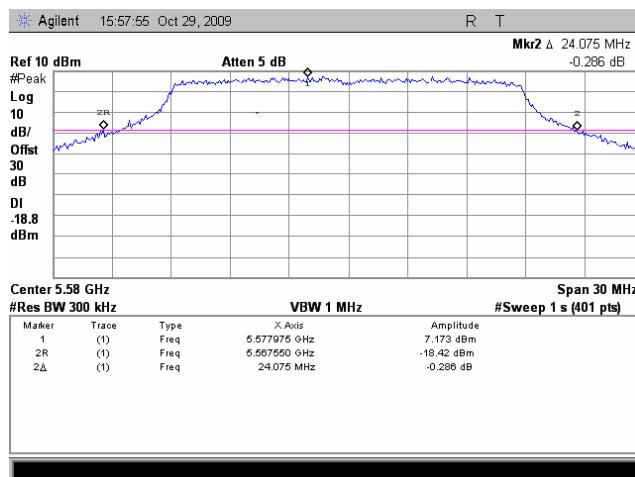
Frequency:	5570 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

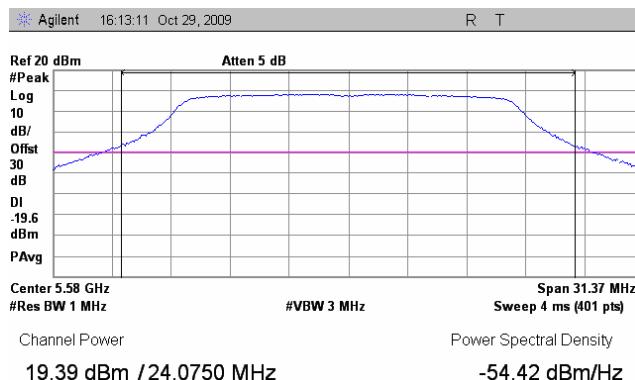
Plot 7.1.139 The 26 dB emission bandwidth

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



Plot 7.1.140 Peak output power

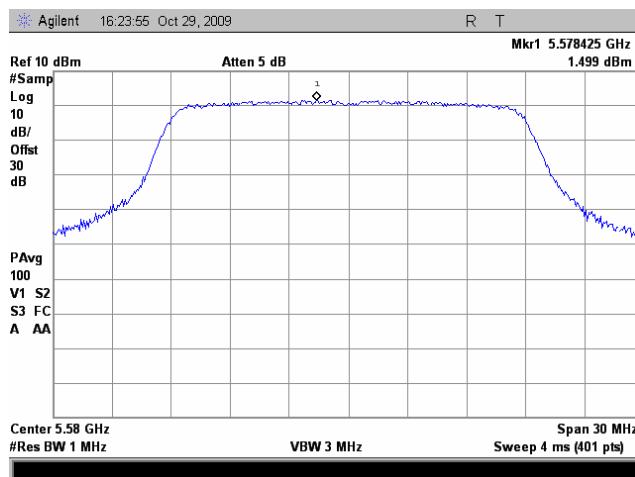
Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



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

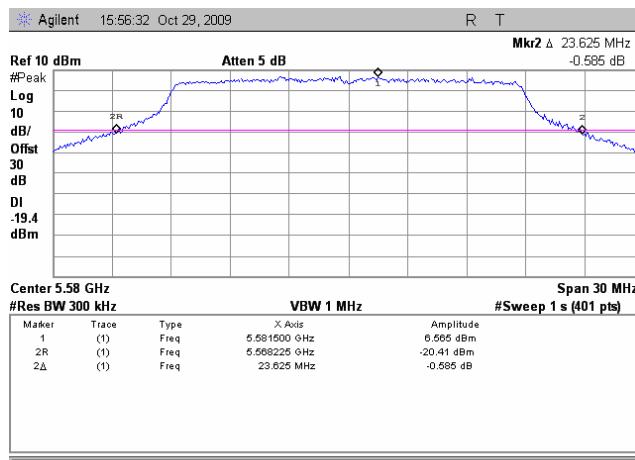
Plot 7.1.141 Peak spectral power density

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



Plot 7.1.142 The 26 dB emission bandwidth

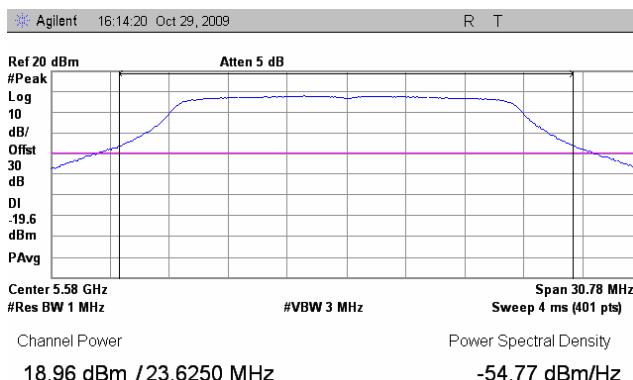
Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



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

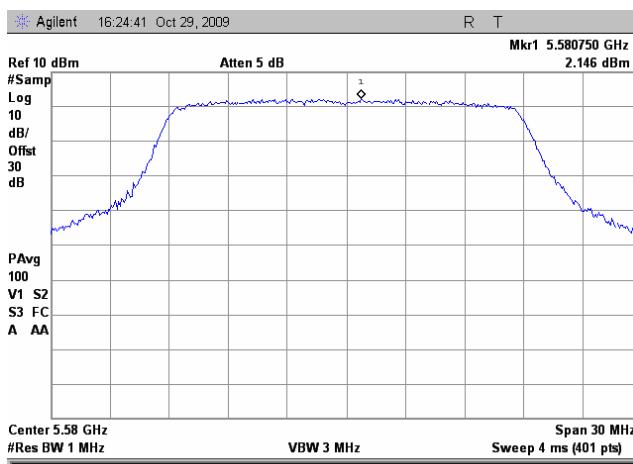
Plot 7.1.143 Peak output power

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



Plot 7.1.144 Peak spectral power density

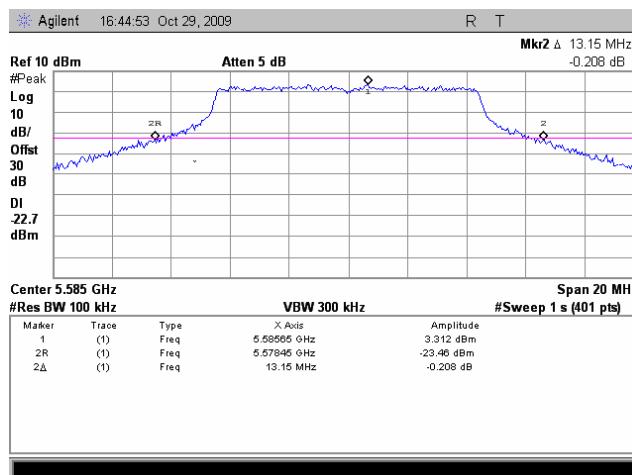
Frequency:	5580 MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



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

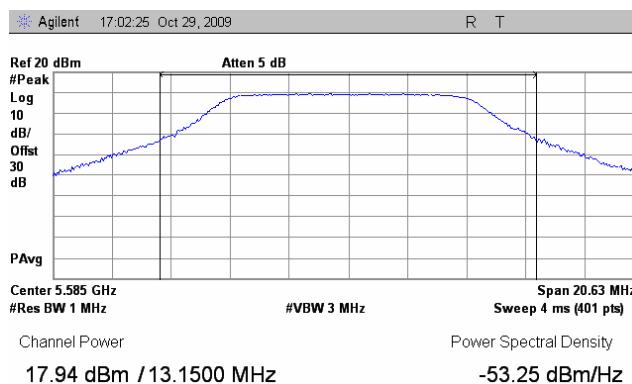
Plot 7.1.145 The 26 dB emission bandwidth

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



Plot 7.1.146 Peak output power

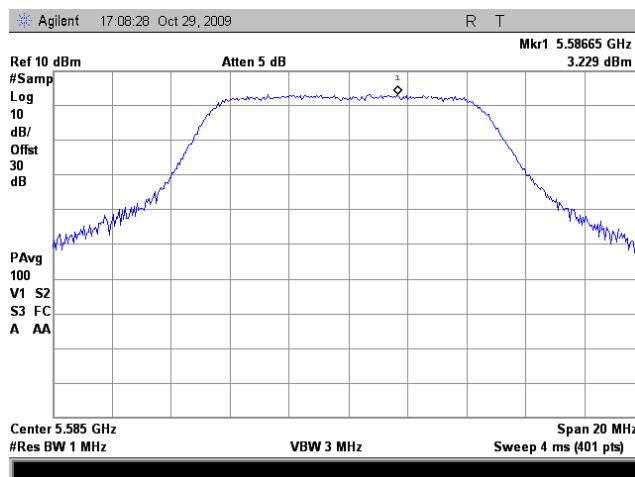
Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



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

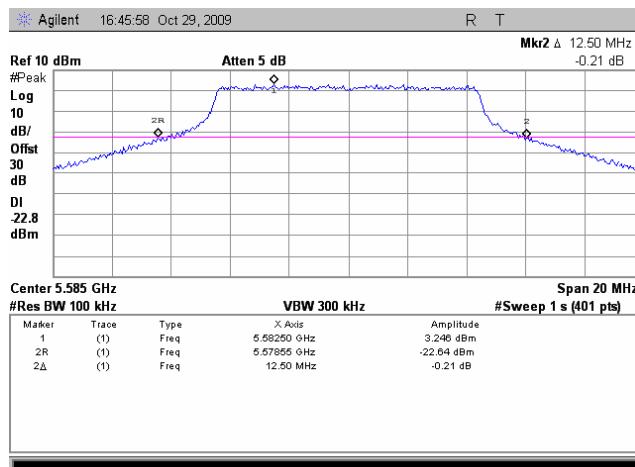
Plot 7.1.147 Peak spectral power density

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



Plot 7.1.148 The 26 dB emission bandwidth

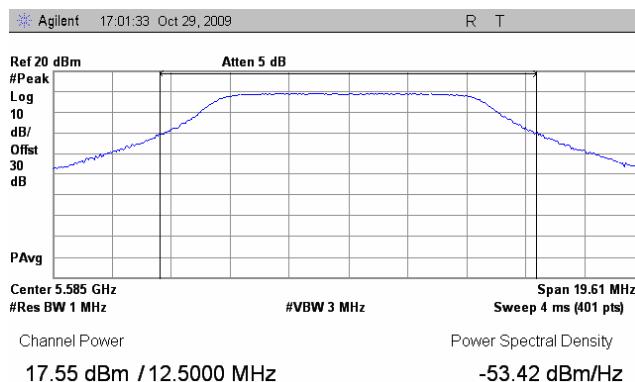
Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



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

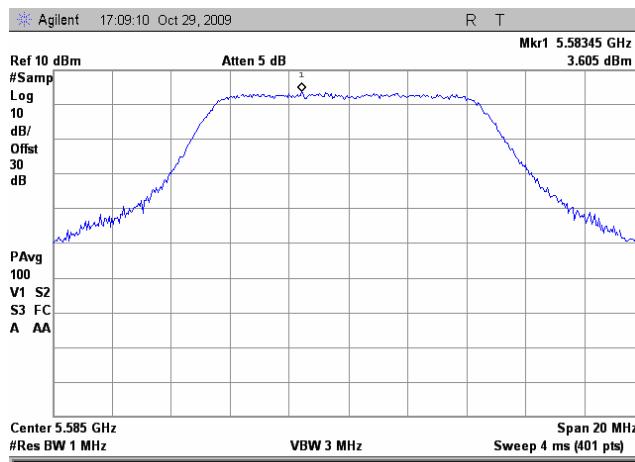
Plot 7.1.149 Peak output power

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



Plot 7.1.150 Peak spectral power density

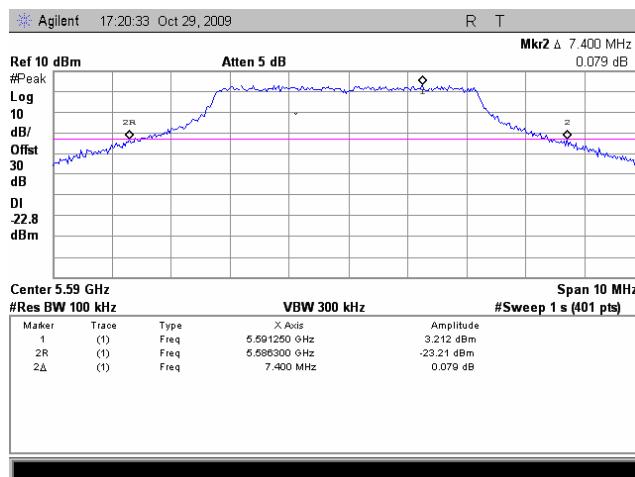
Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



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

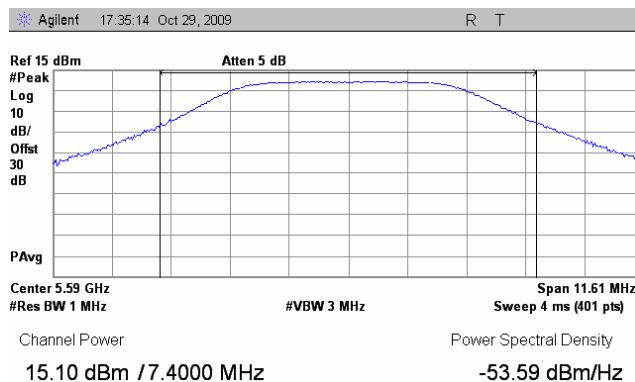
Plot 7.1.151 The 26 dB emission bandwidth

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



Plot 7.1.152 Peak output power

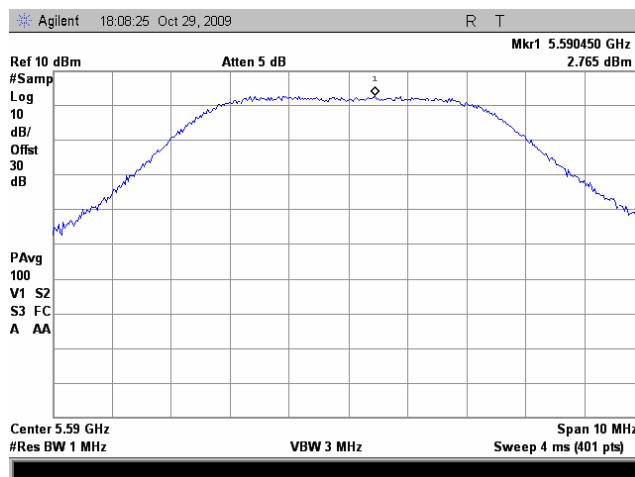
Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



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

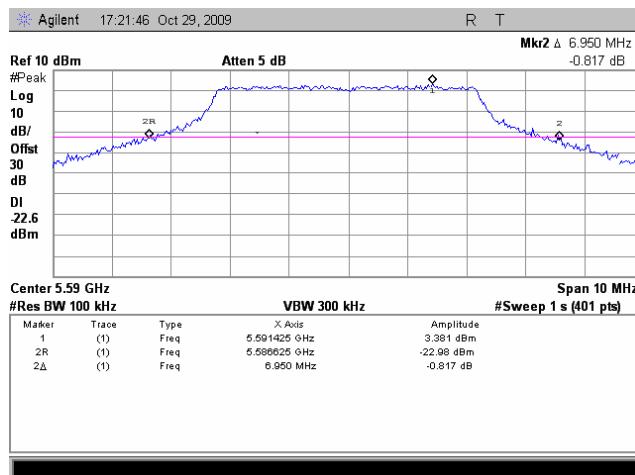
Plot 7.1.153 Peak spectral power density

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



Plot 7.1.154 The 26 dB emission bandwidth

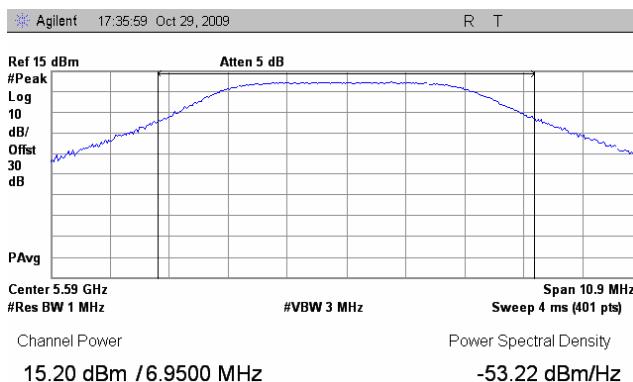
Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



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

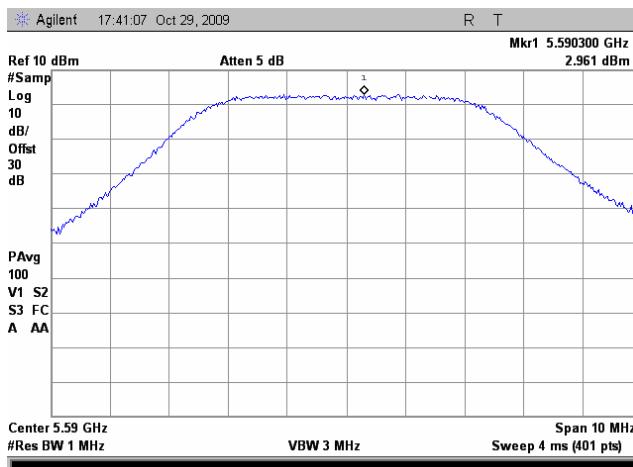
Plot 7.1.155 Peak output power

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



Plot 7.1.156 Peak spectral power density

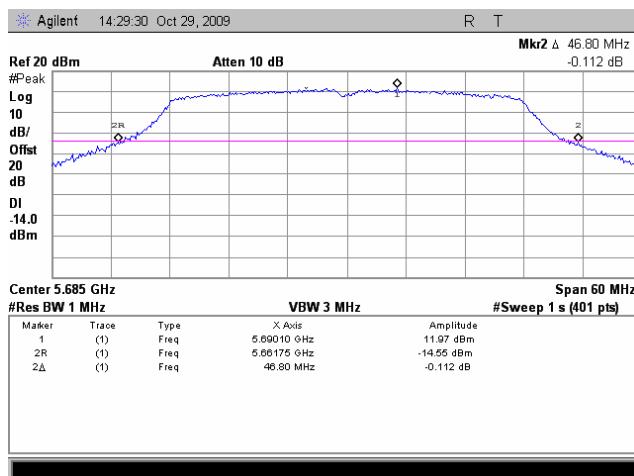
Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



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

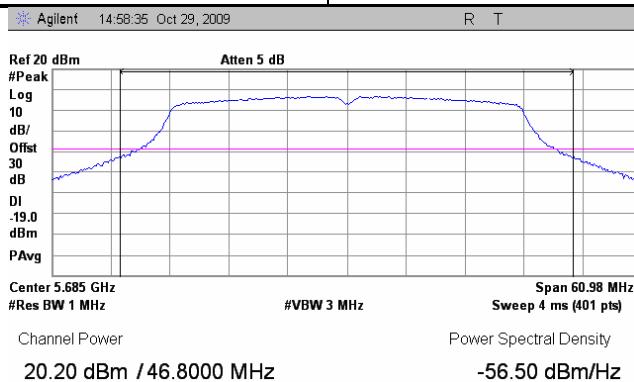
Plot 7.1.157 The 26 dB emission bandwidth

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



Plot 7.1.158 Peak output power

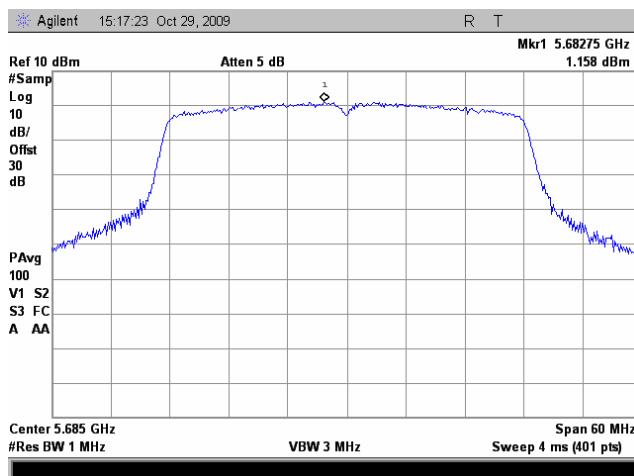
Frequency:	5685 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



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

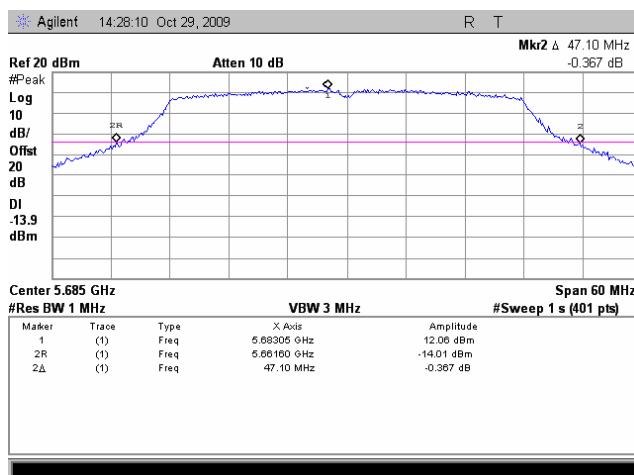
Plot 7.1.159 Peak spectral power density

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



Plot 7.1.160 The 26 dB emission bandwidth

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

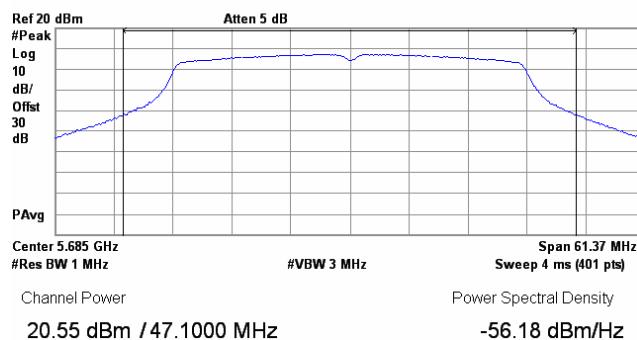


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.161 Peak output power

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

Agilent 15:00:11 Oct 29, 2009 R T



Plot 7.1.162 Peak spectral power density

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

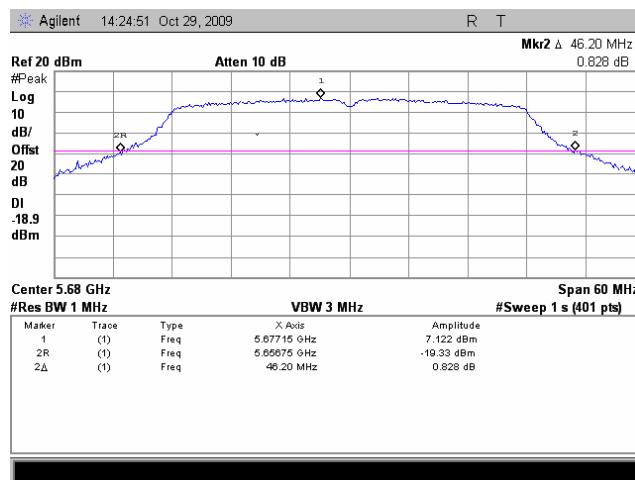
Agilent 15:16:33 Oct 29, 2009 R T



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

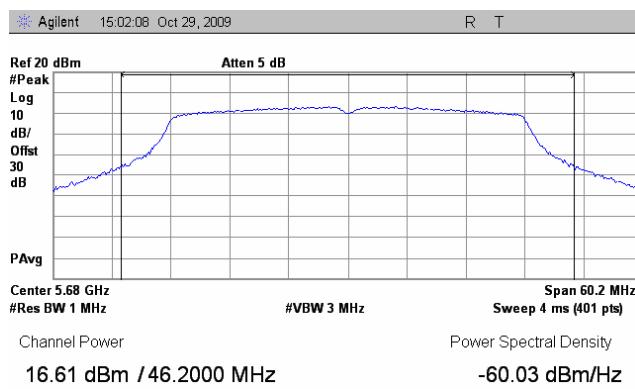
Plot 7.1.163 The 26 dB emission bandwidth

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



Plot 7.1.164 Peak output power

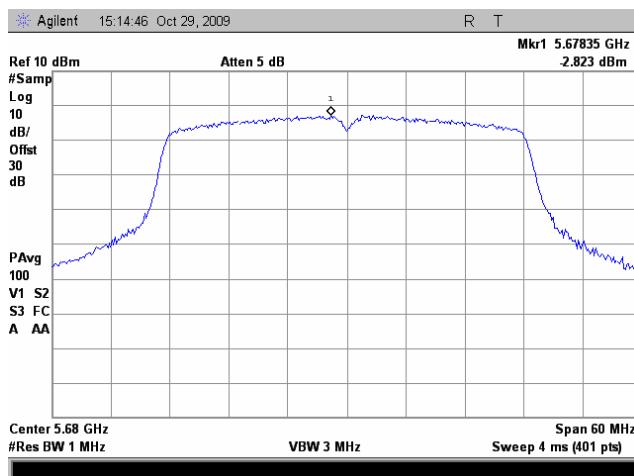
Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



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

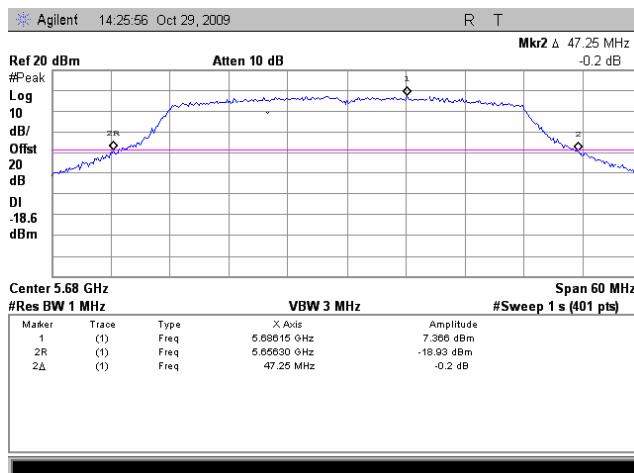
Plot 7.1.165 Peak spectral power density

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



Plot 7.1.166 The 26 dB emission bandwidth

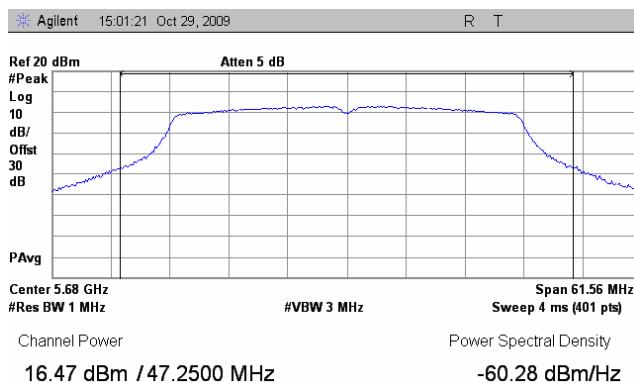
Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

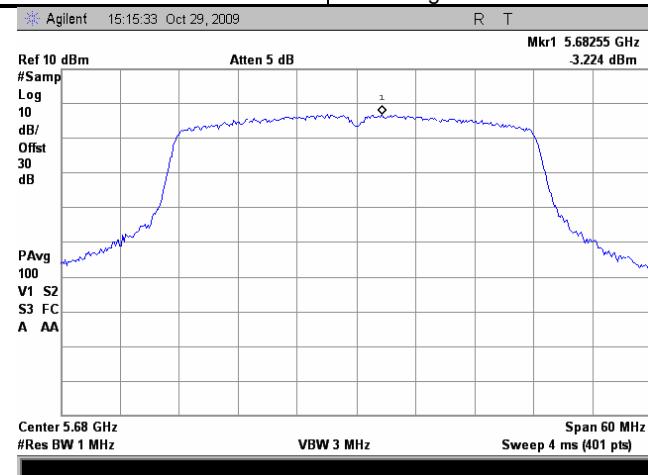
Plot 7.1.167 Peak output power

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



Plot 7.1.168 Peak spectral power density

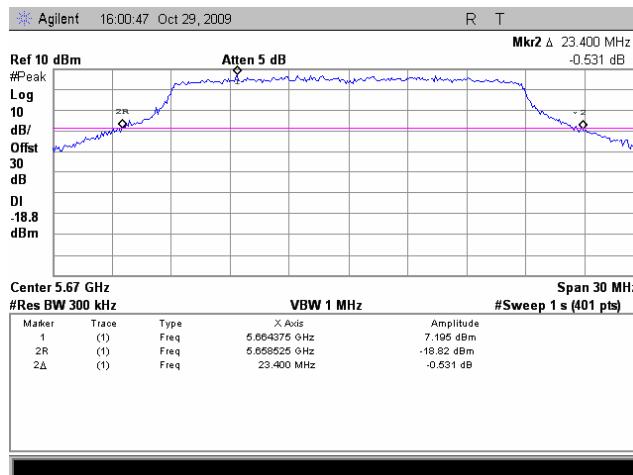
Frequency:	5680 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge



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

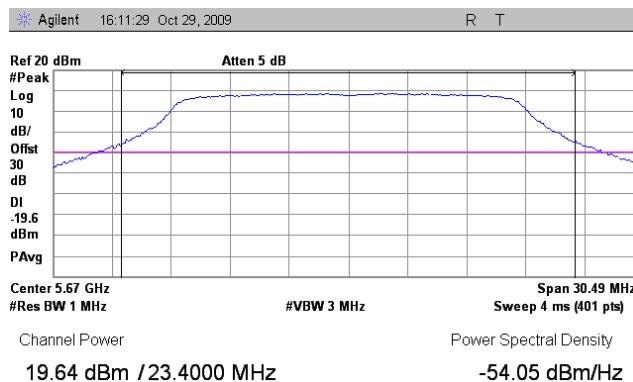
Plot 7.1.169 The 26 dB emission bandwidth

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



Plot 7.1.170 Peak output power

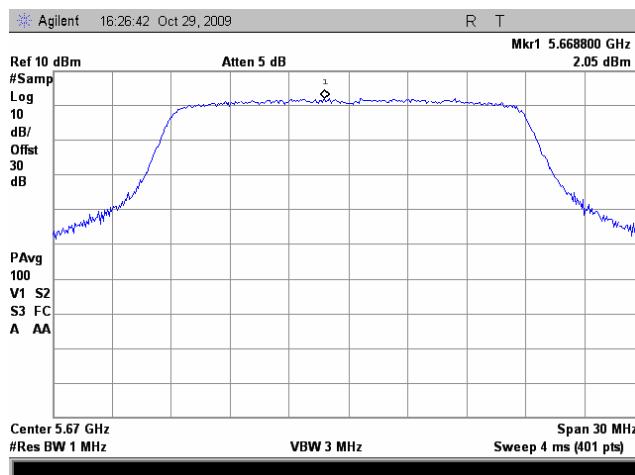
Frequency:	5670MHz
Channel BW:	20 MHz
Modulation parameters:	BPSK, 13 Mbps



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

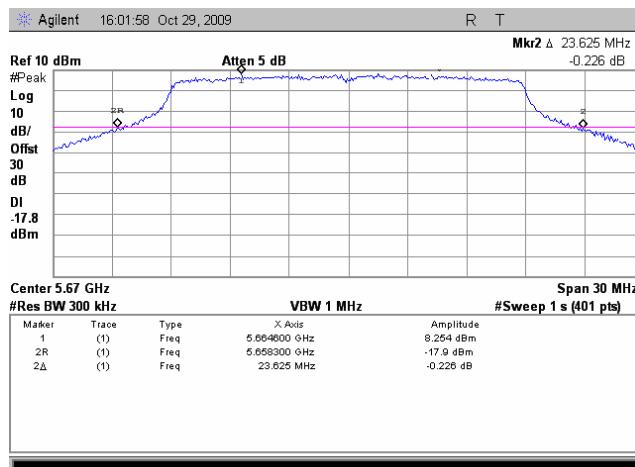
Plot 7.1.171 Peak spectral power density

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



Plot 7.1.172 The 26 dB emission bandwidth

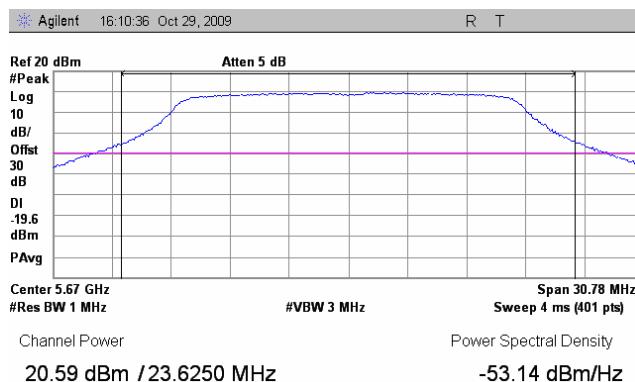
Frequency:	5670MHz
Channel BW:	20 MHz
Modulation parameters:	64QAM, 130 Mbps



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

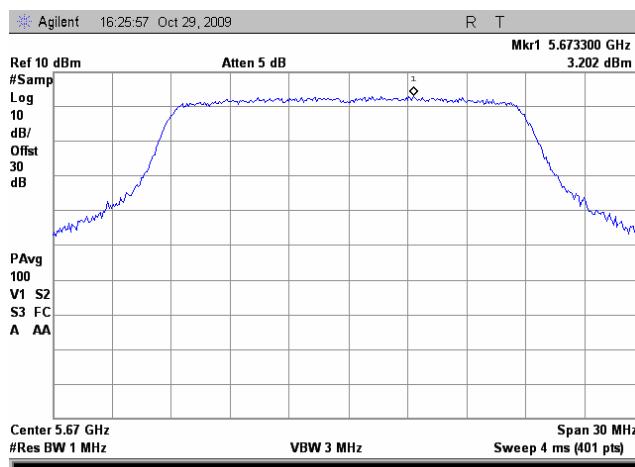
Plot 7.1.173 Peak output power

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



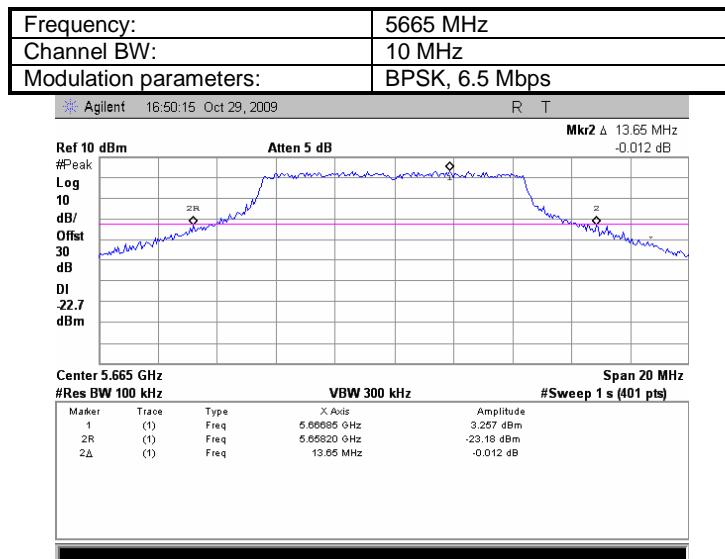
Plot 7.1.174 Peak spectral power density

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



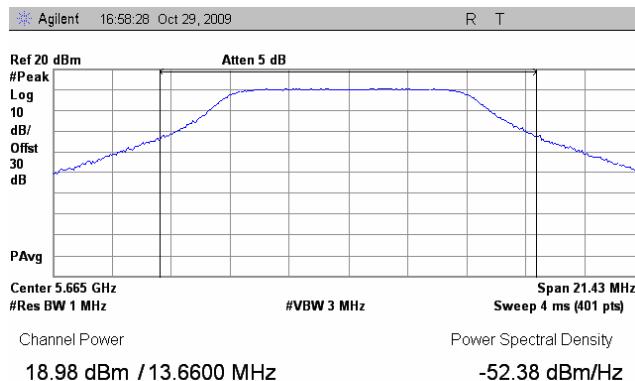
Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.175 The 26 dB emission bandwidth



Plot 7.1.176 Peak output power

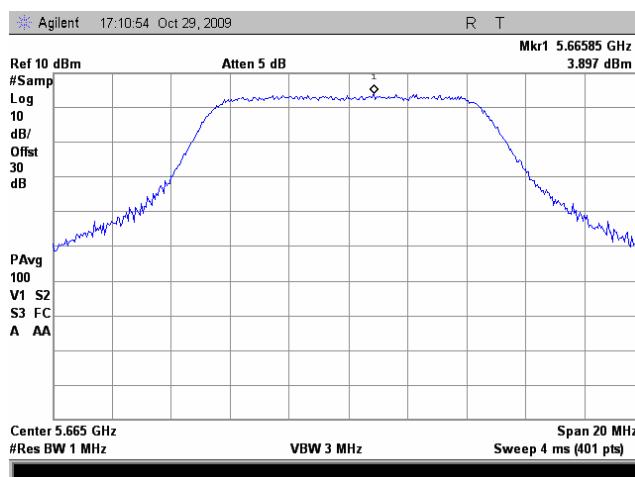
Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK, 6.5 Mbps



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

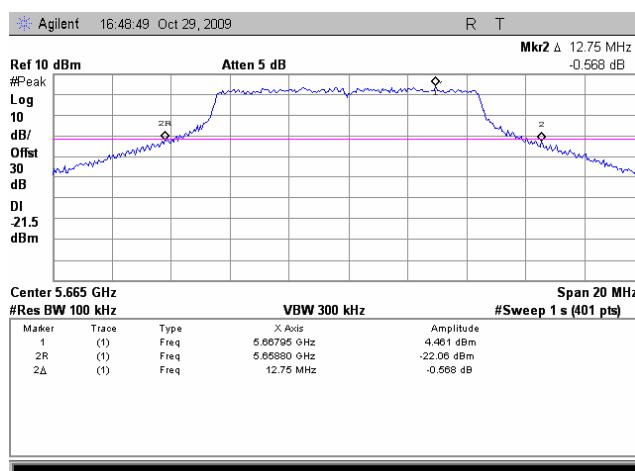
Plot 7.1.177 Peak spectral power density

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



Plot 7.1.178 The 26 dB emission bandwidth

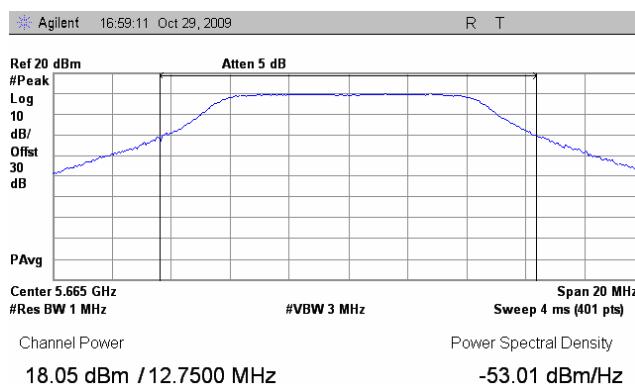
Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



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

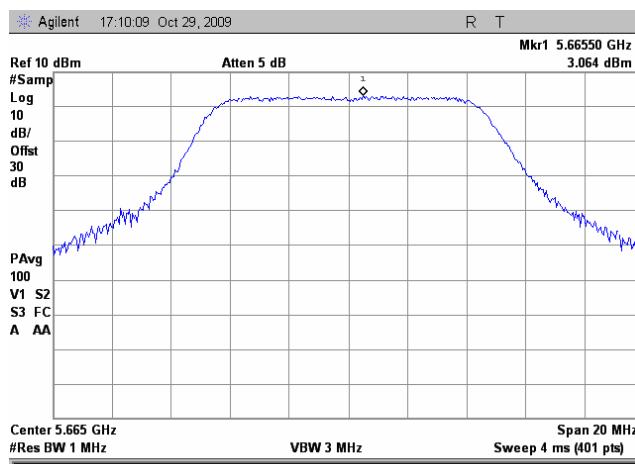
Plot 7.1.179 Peak output power

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



Plot 7.1.180 Peak spectral power density

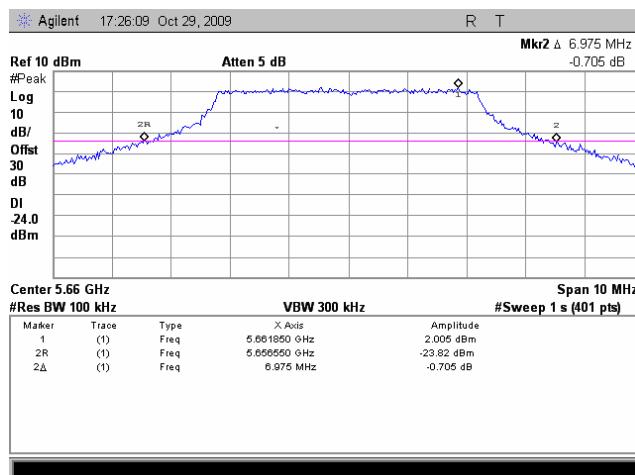
Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM, 65 Mbps



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

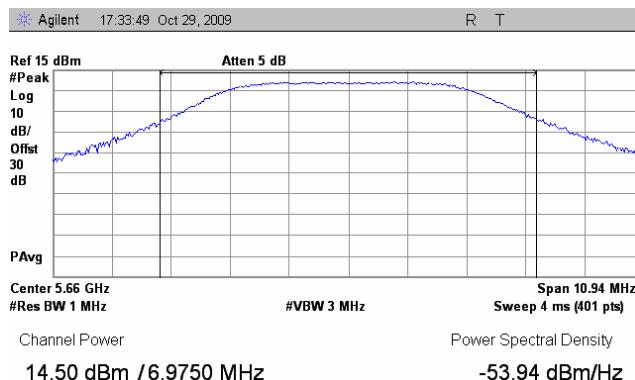
Plot 7.1.181 The 26 dB emission bandwidth

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



Plot 7.1.182 Peak output power

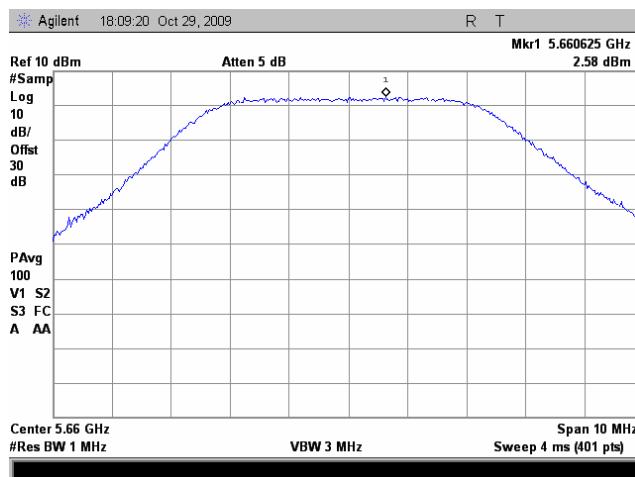
Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	BPSK, 3.25 Mbps



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

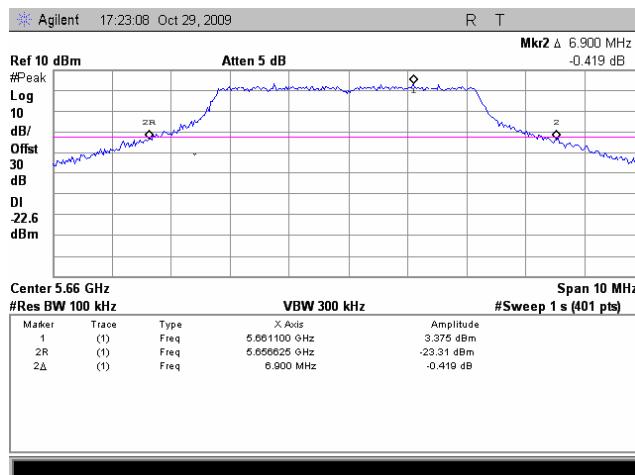
Plot 7.1.183 Peak spectral power density

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



Plot 7.1.184 The 26 dB emission bandwidth

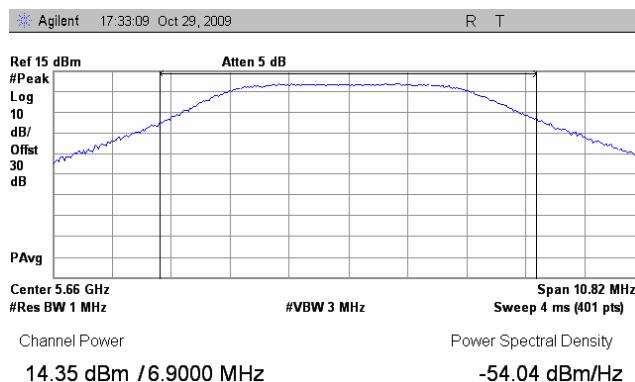
Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



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

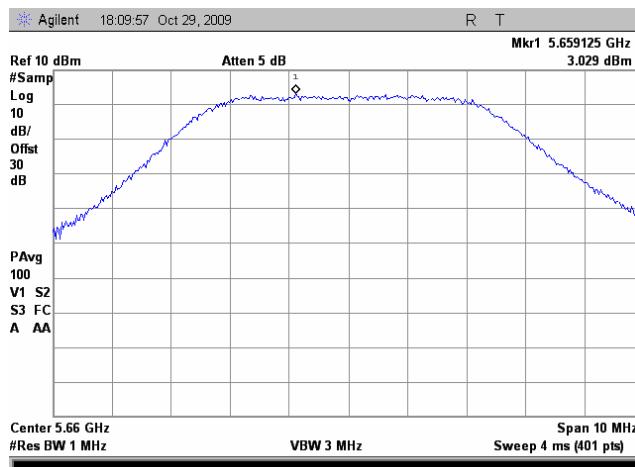
Plot 7.1.185 Peak output power

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



Plot 7.1.186 Peak spectral power density

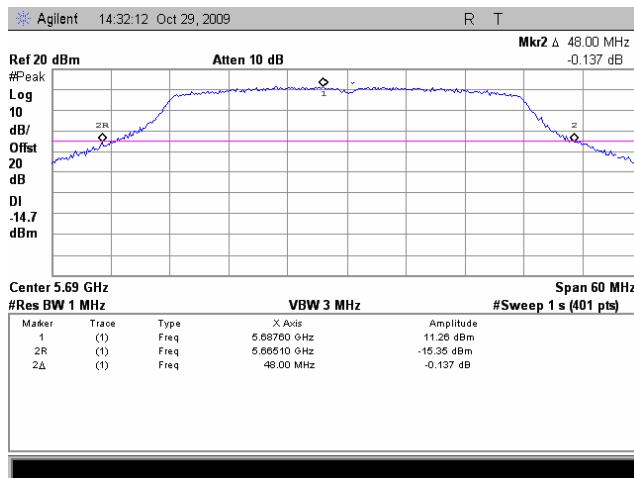
Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM, 32.5 Mbps



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

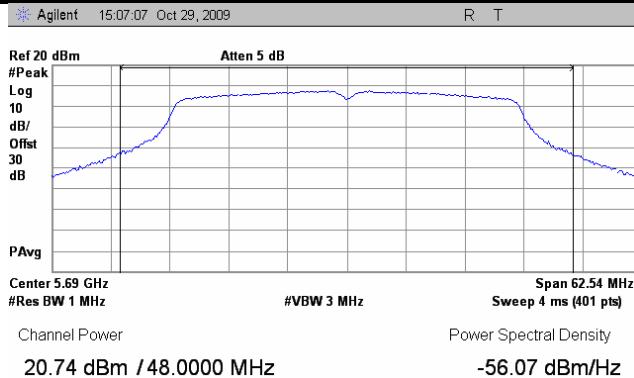
Plot 7.1.187 The 26 dB emission bandwidth

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



Plot 7.1.188 Peak output power

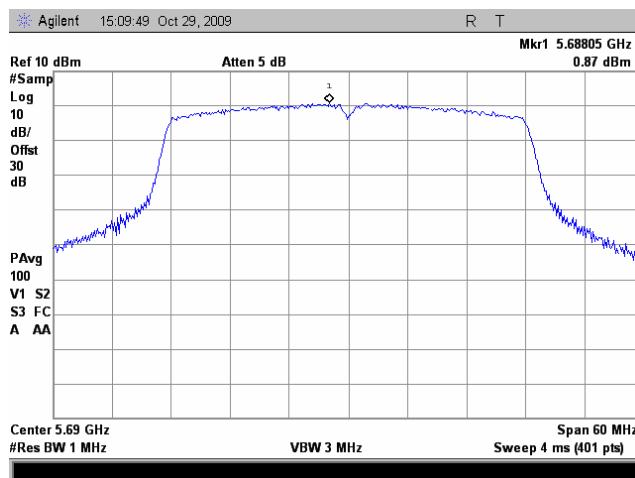
Frequency:	5690 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	In-Band



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

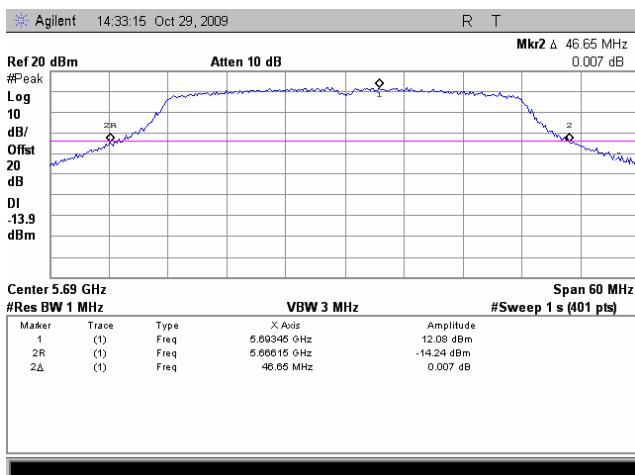
Plot 7.1.189 Peak spectral power density

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



Plot 7.1.190 The 26 dB emission bandwidth

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

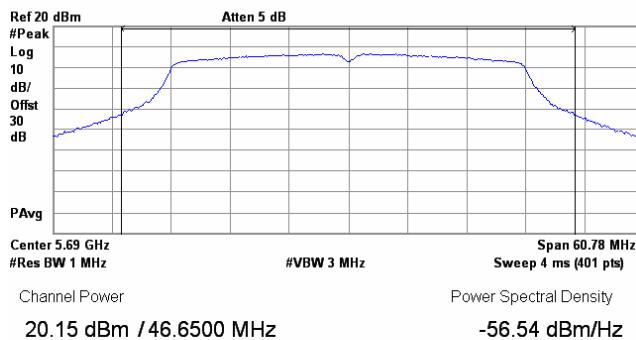


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.191 Peak output power

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

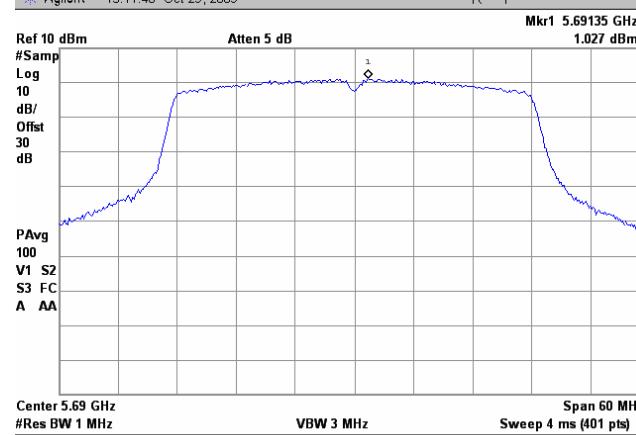
Agilent 15:06:16 Oct 29, 2009 R T



Plot 7.1.192 Peak spectral power density

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

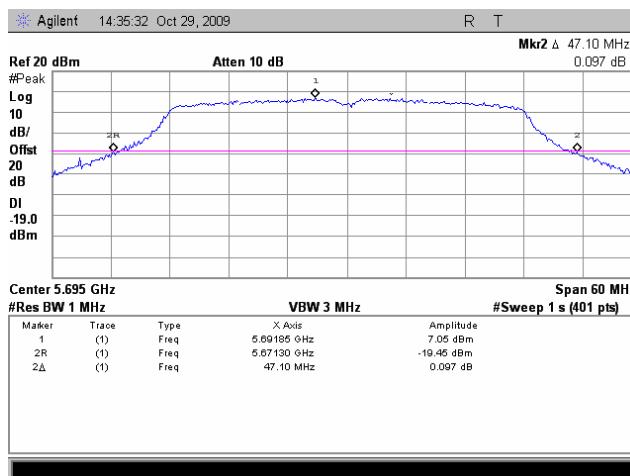
Agilent 15:11:48 Oct 29, 2009 R T



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

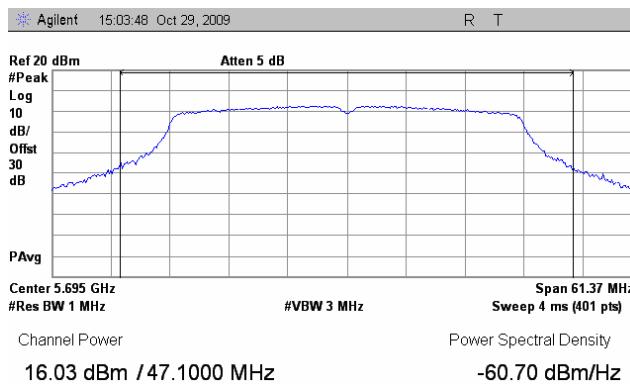
Plot 7.1.193 The 26 dB emission bandwidth

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



Plot 7.1.194 Peak output power

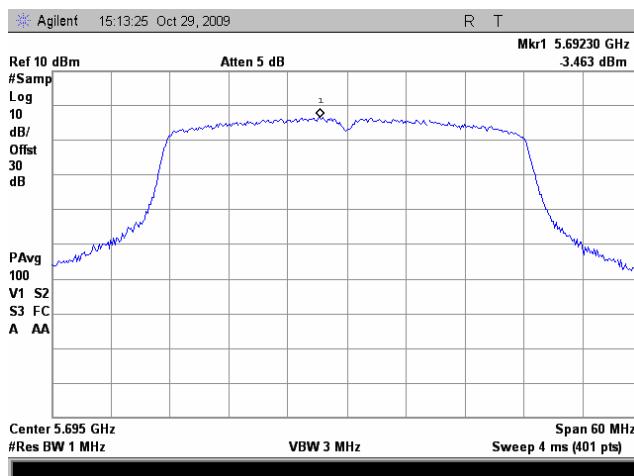
Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	BPSK, 27 Mbps
NOTE	Band Edge



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

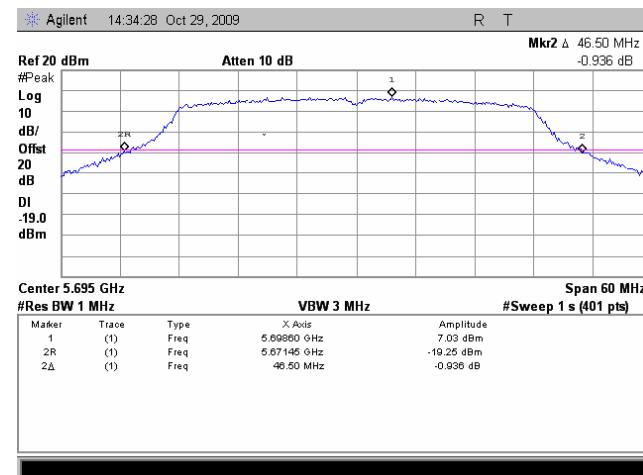
Plot 7.1.195 Peak spectral power density

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



Plot 7.1.196 The 26 dB emission bandwidth

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

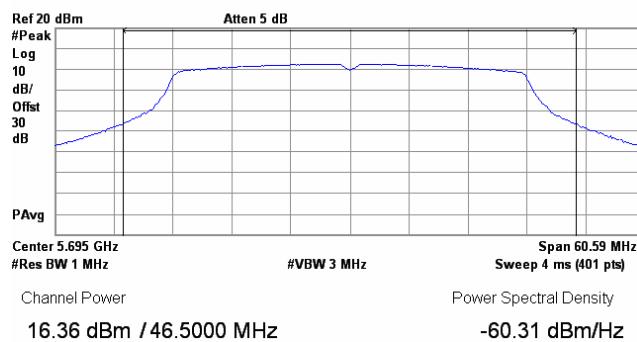


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.197 Peak output power

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

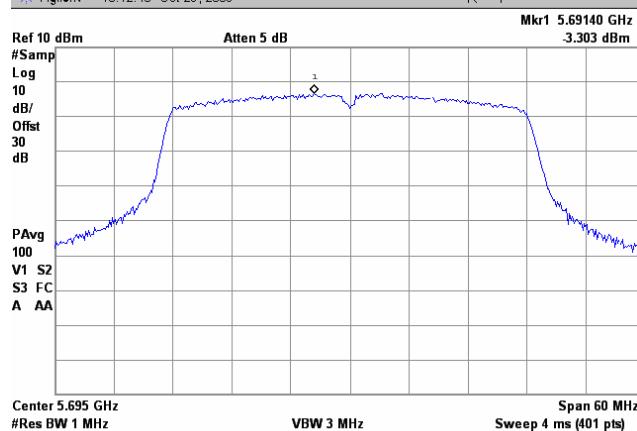
Agilent 15:04:55 Oct 29, 2009 R T



Plot 7.1.198 Peak spectral power density

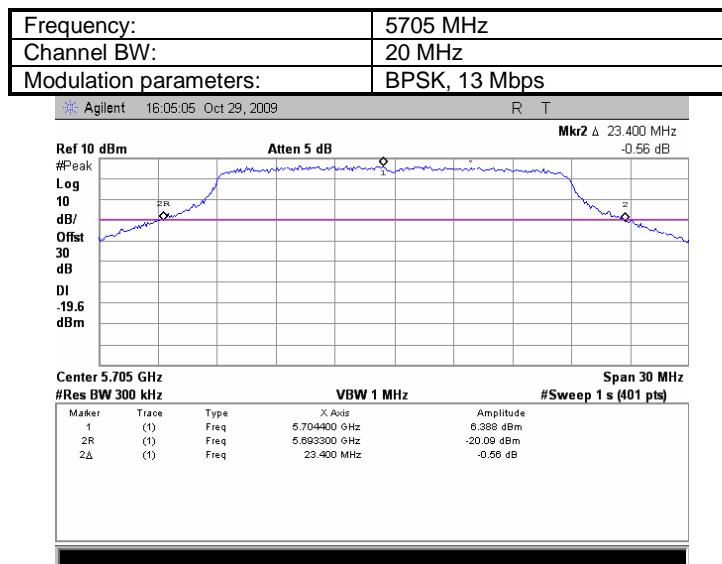
Frequency:	5695 MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM, 270 Mbps
NOTE	Band Edge

Agilent 15:12:40 Oct 29, 2009 R T

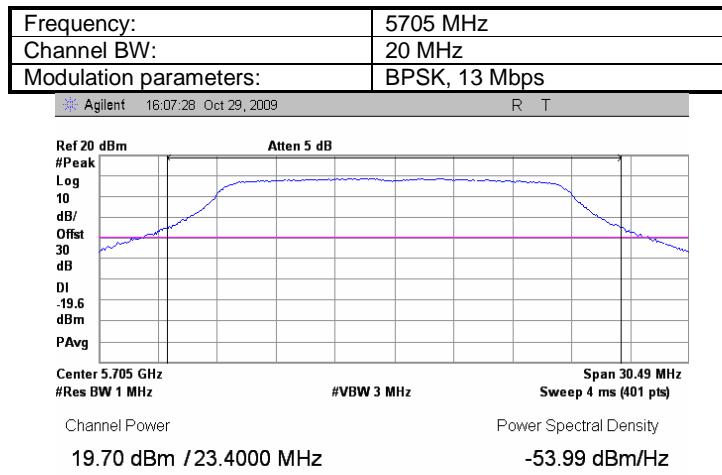


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.199 The 26 dB emission bandwidth

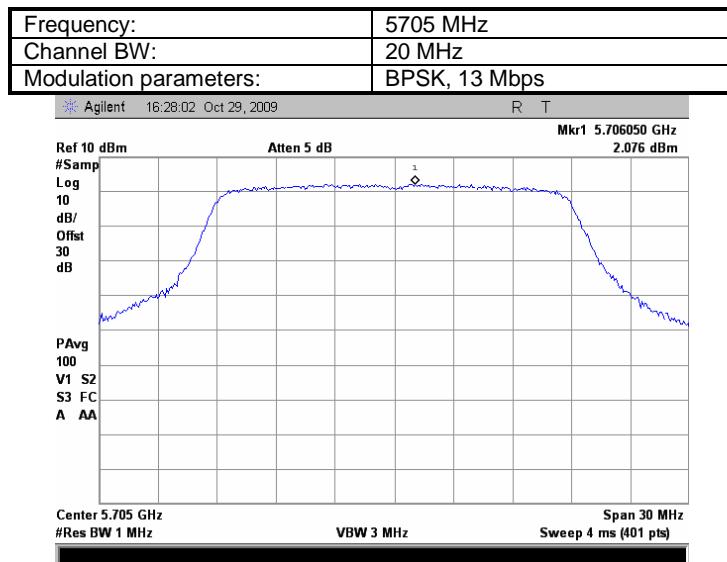


Plot 7.1.200 Peak output power

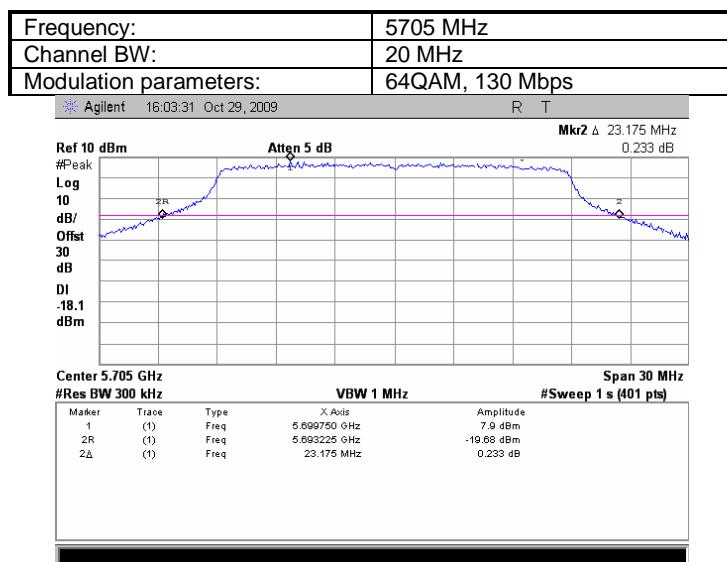


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.201 Peak spectral power density

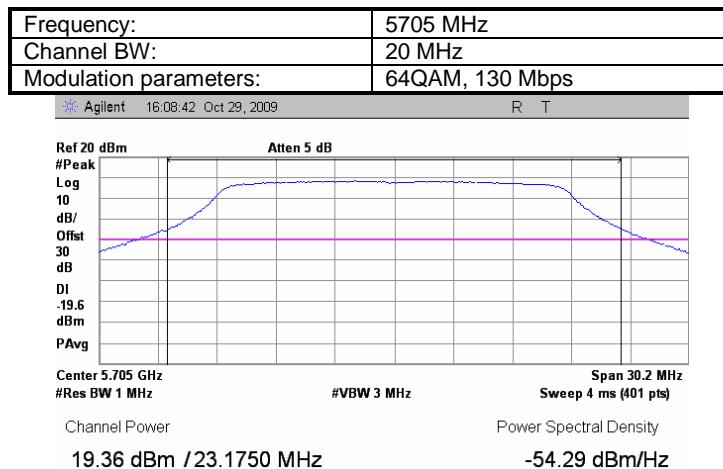


Plot 7.1.202 The 26 dB emission bandwidth

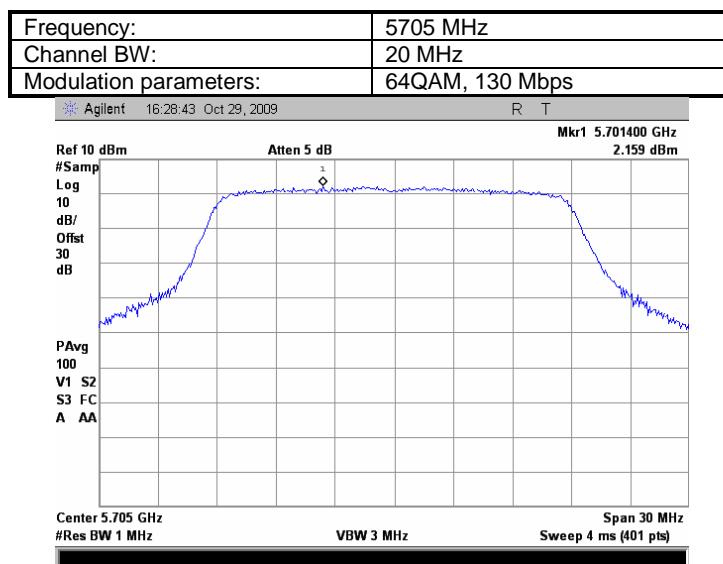


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.203 Peak output power

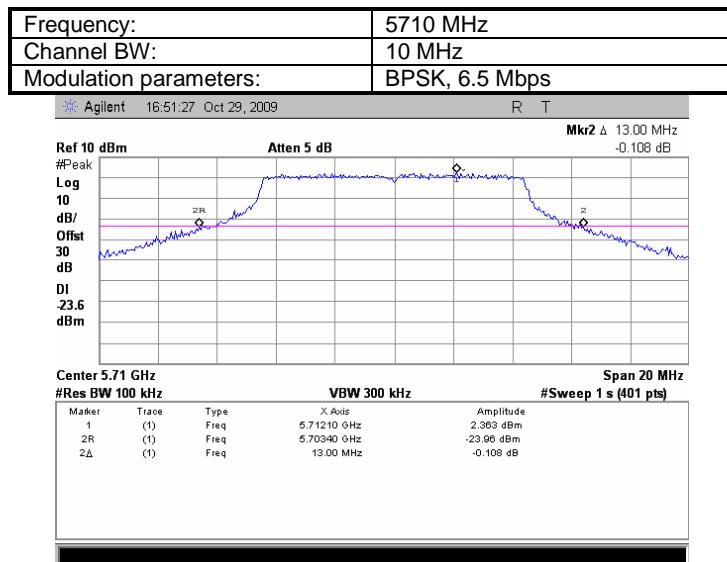


Plot 7.1.204 Peak spectral power density

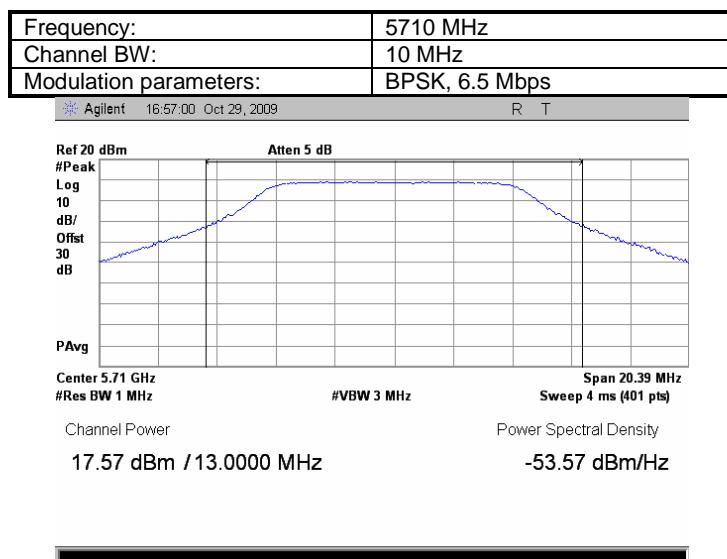


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.205 The 26 dB emission bandwidth

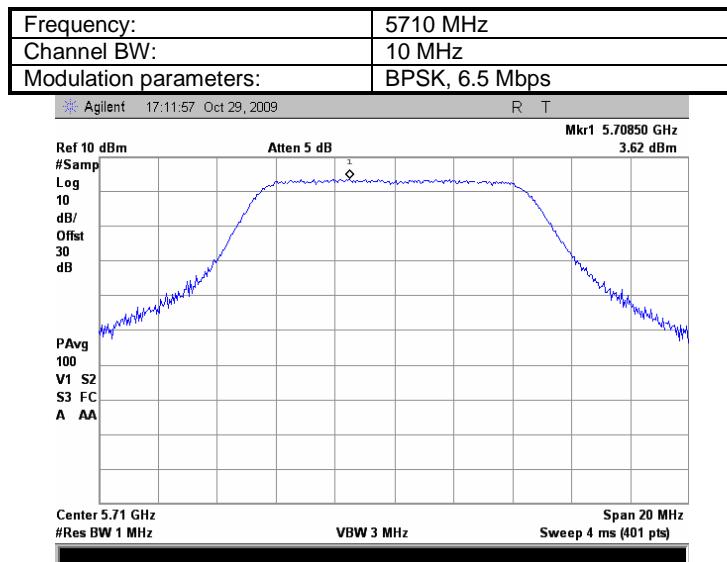


Plot 7.1.206 Peak output power

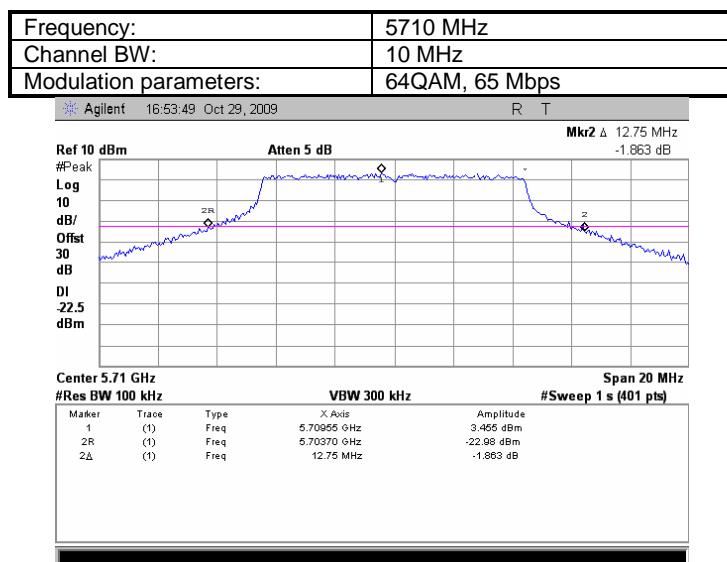


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.207 Peak spectral power density

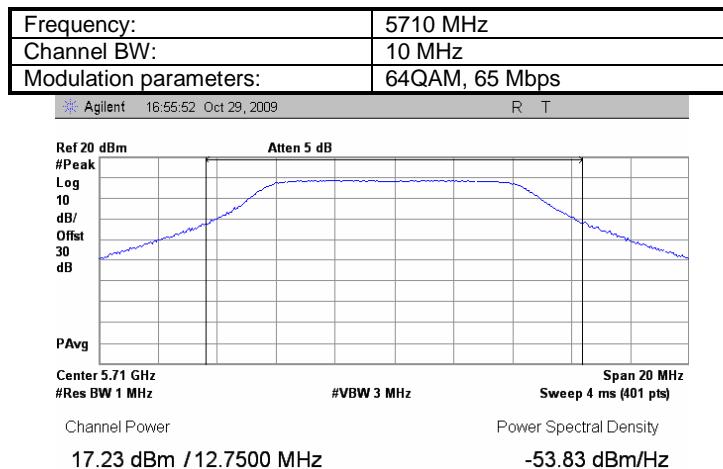


Plot 7.1.208 The 26 dB emission bandwidth

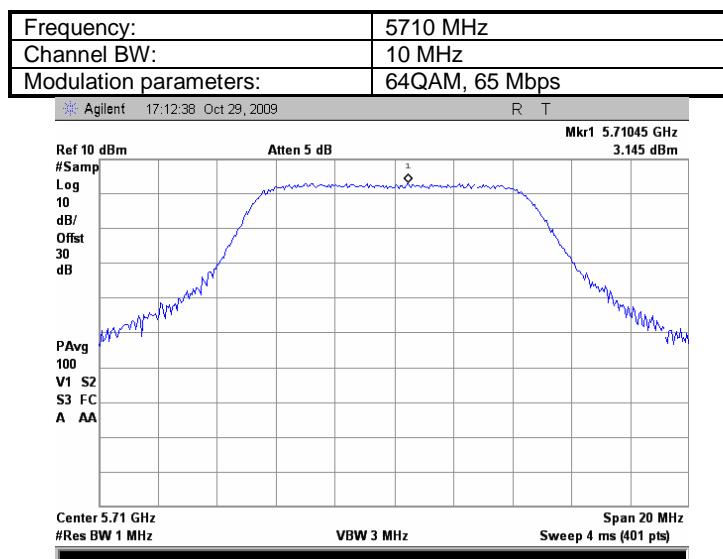


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance		
Date:	10/26/2009	Verdict: PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.209 Peak output power

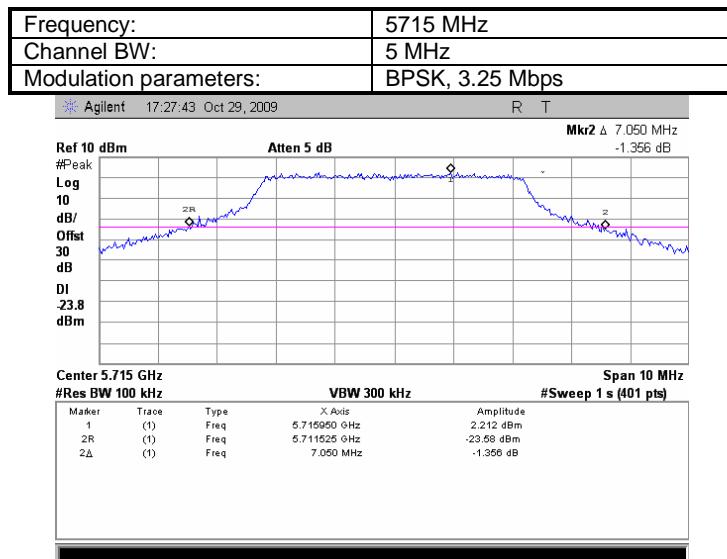


Plot 7.1.210 Peak spectral power density

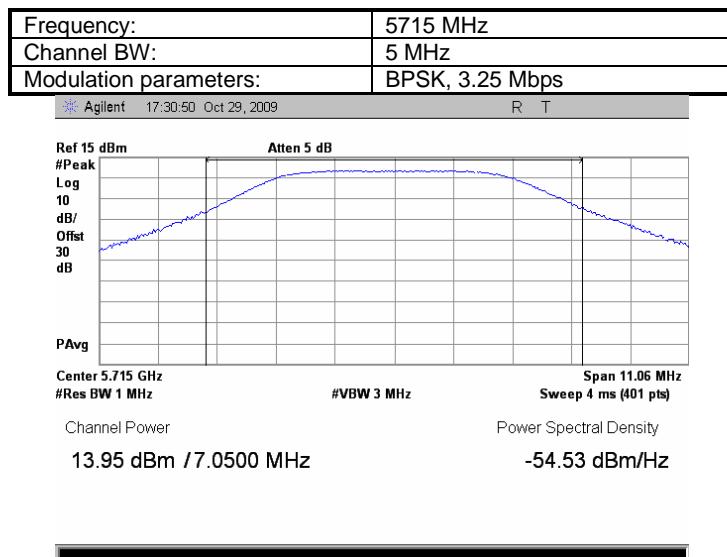


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance		
Date:	10/26/2009	Verdict: PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.211 The 26 dB emission bandwidth

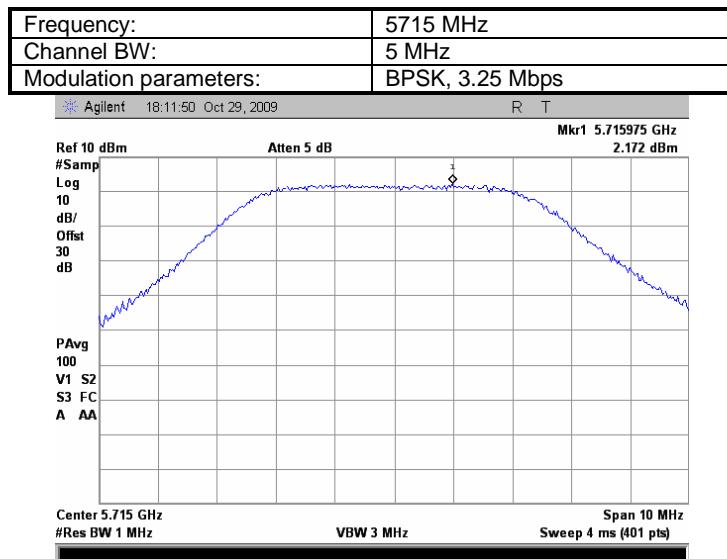


Plot 7.1.212 Peak output power

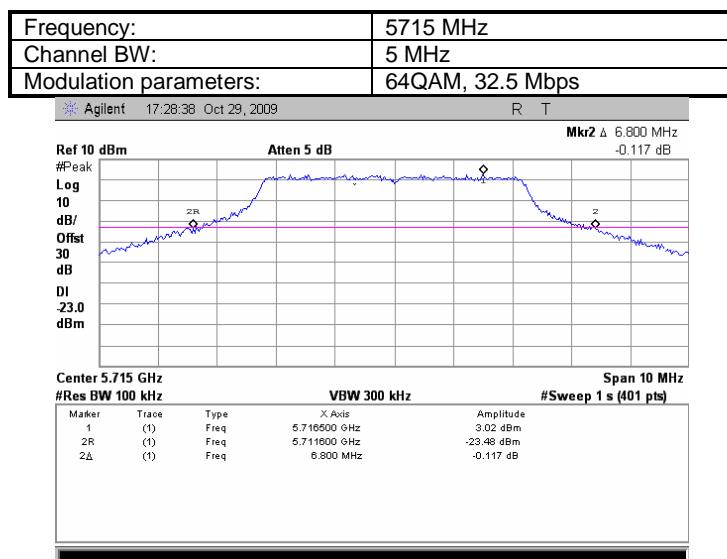


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.213 Peak spectral power density

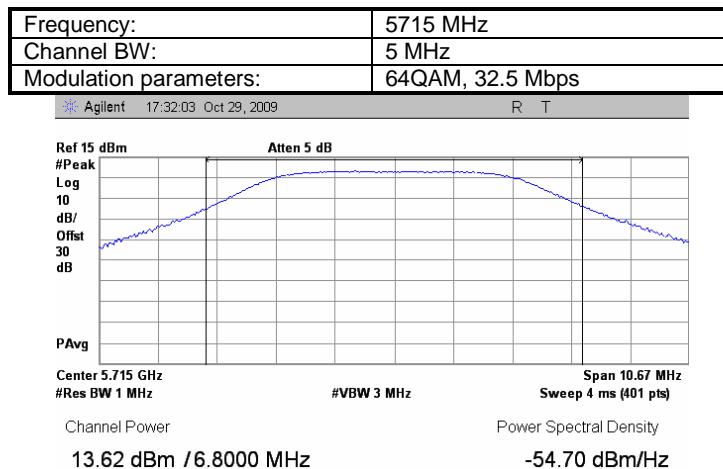


Plot 7.1.214 The 26 dB emission bandwidth

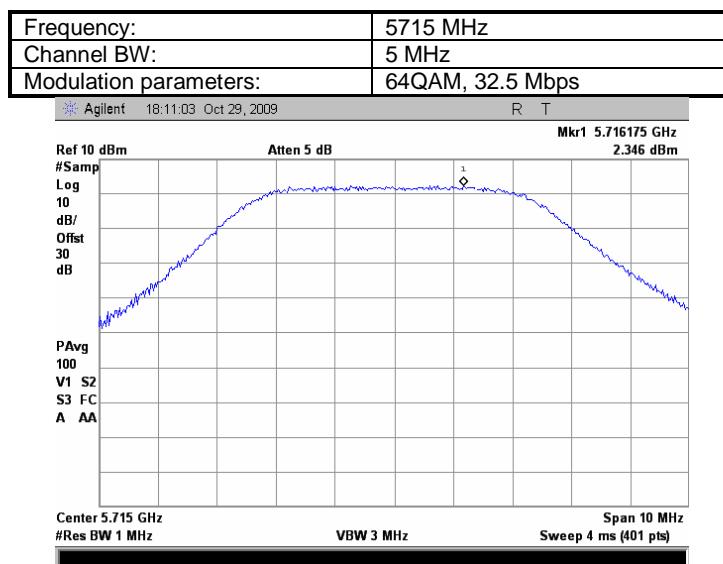


Test specification:	FCC section 15. 407(a)(1-3), RSS-210 Annex 9, section A9.2 Peak output power and peak power spectral density		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	
Date:	10/26/2009	PASS	
Temperature: 25 °C	Air Pressure: 1008 hPa	Relative Humidity: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

Plot 7.1.215 Peak output power



Plot 7.1.216 Peak spectral power density



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

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

7.2.1 General

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

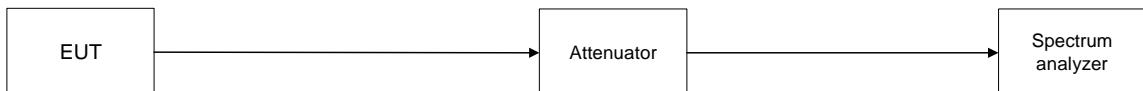
Table 7.2.1 Peak excursion limits

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

7.2.2 Test procedure

- 7.2.2.1 The EUT was set up as shown in Figure 7.2.1, energized and its proper operation was checked.
- 7.2.2.2 The EUT was adjusted to produce maximum available to end user RF output power.
- 7.2.2.3 The measurements were performed in continuous transmission mode of operation for carrier (channel) frequency at low and high edges and at the middle of the frequency range.
 The maximum peak excursion of modulation envelope was measured as a difference between 2 traces.
- 7.2.2.4 The test results were recorded in Table 7.2.2 to Table 7.2.7 and shown in the associated plots.

Figure 7.2.1 Ratio of peak excursion test setup



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

Table 7.2.2 Peak excursion test results

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

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

Reference numbers of test equipment used

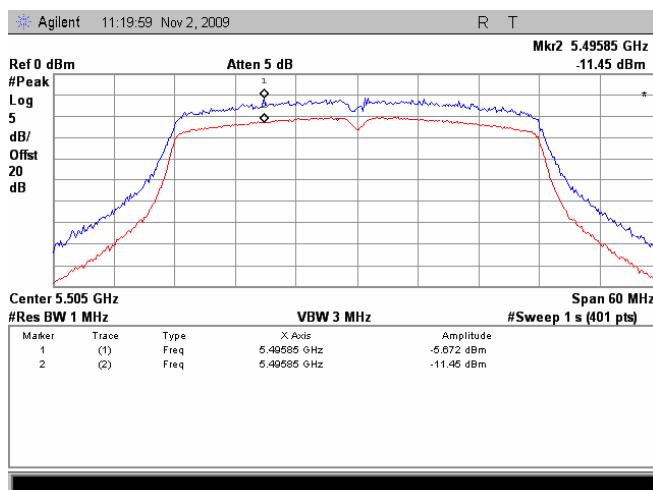
HL 2909	HL 2952	HL 3442					
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Full description is given in Appendix A.

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

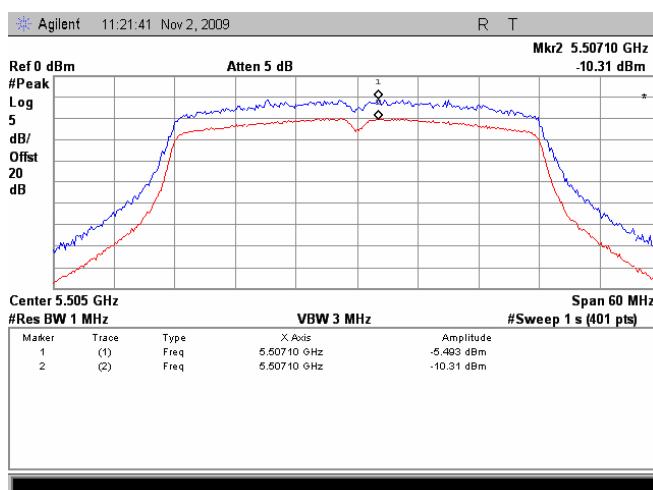
Plot.7.2.1 Peak excursion measurement

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



Plot.7.2.2 Peak excursion measurement

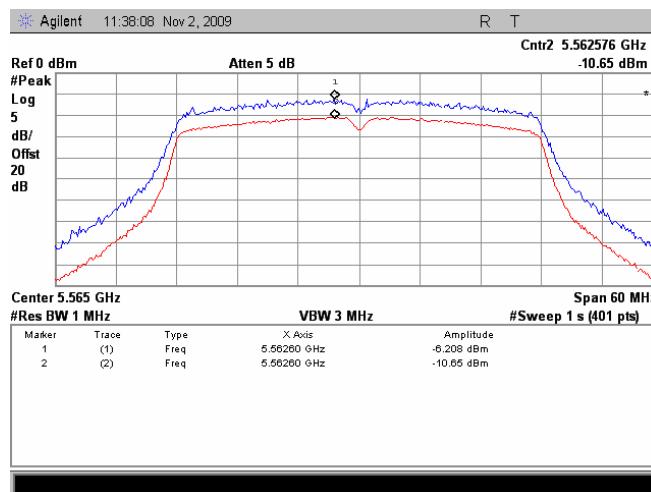
Frequency: 5505MHz
Channel BW: 40 MHz
Modulation parameters: 64QAM; 270 MBps



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

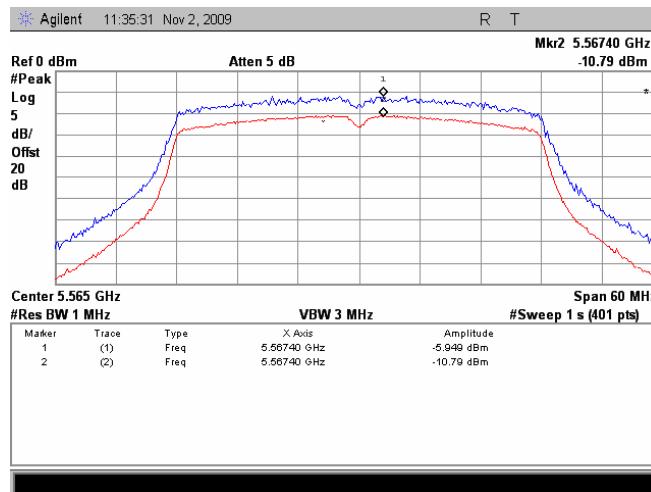
Plot 7.2.3 Peak excursion measurement

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



Plot 7.2.4 Peak excursion measurement

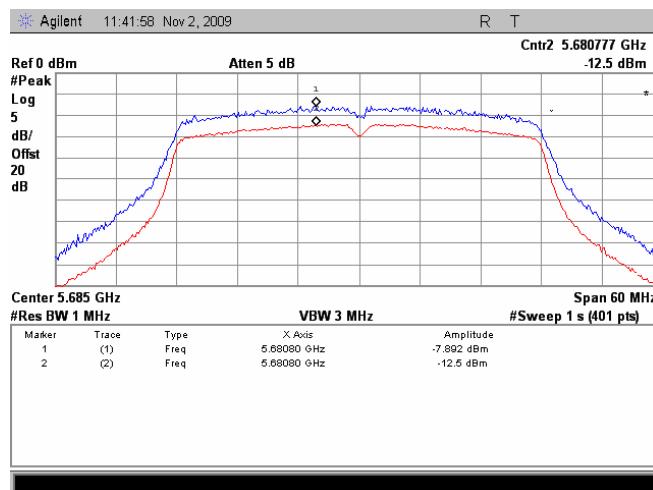
Frequency:	5565MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



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

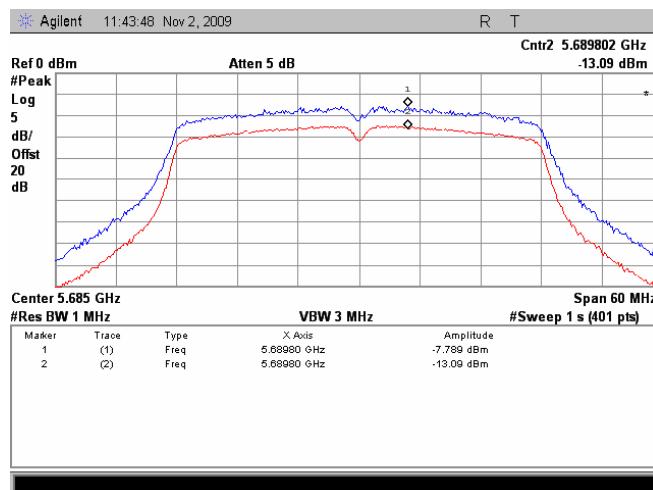
Plot 7.2.5 Peak excursion measurement

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



Plot 7.2.6 Peak excursion measurement

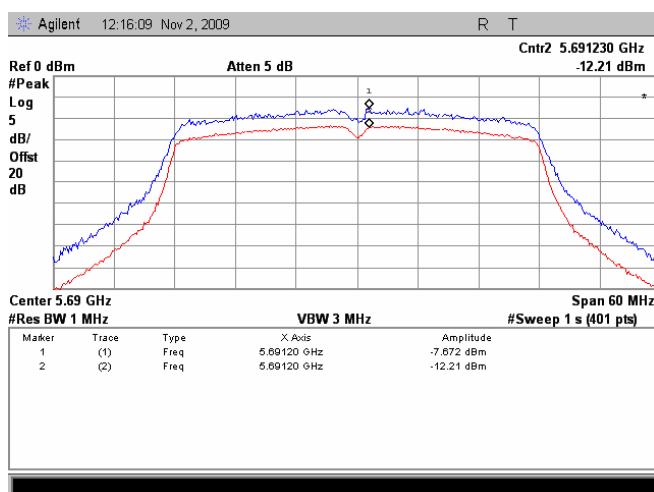
Frequency:	5685MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



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

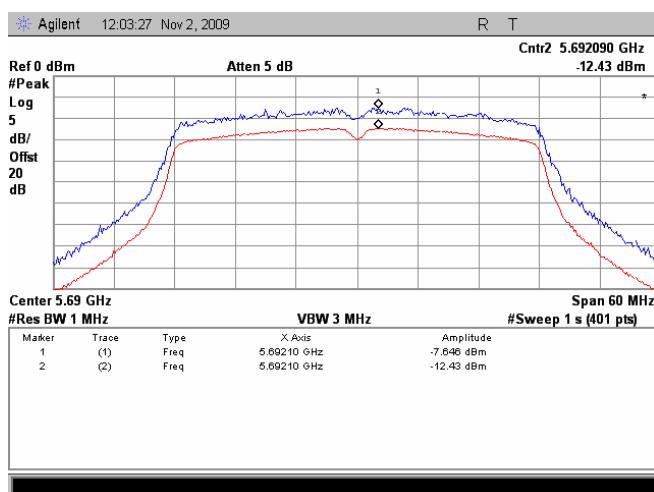
Plot.7.2.7 Peak excursion measurement

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



Plot.7.2.8 Peak excursion measurement

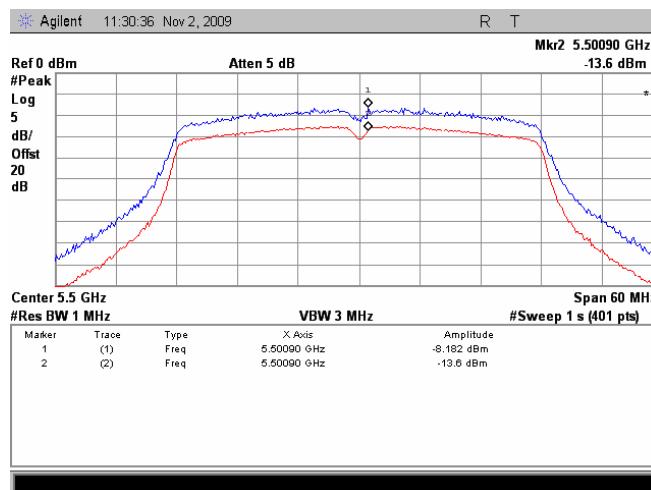
Frequency: 5690MHz
Channel BW: 40 MHz
Modulation parameters: 64QAM; 270 MBps



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

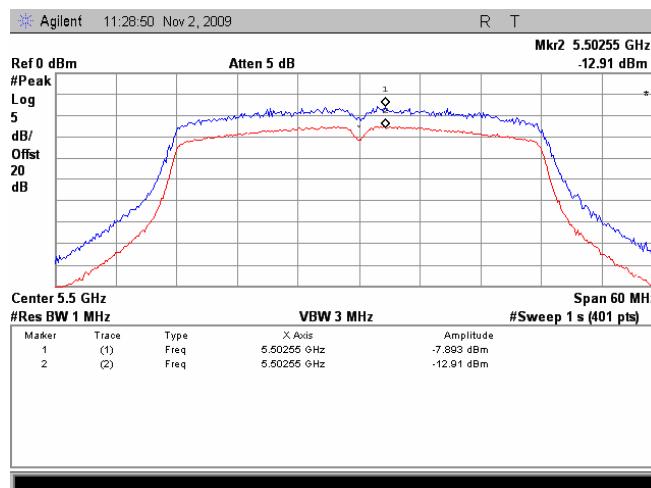
Plot 7.2.9 Peak excursion measurement

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



Plot 7.2.10 Peak excursion measurement

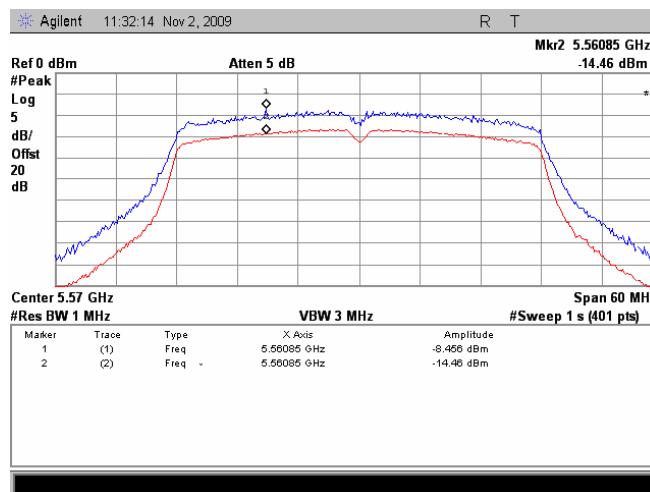
Frequency:	5500MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



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

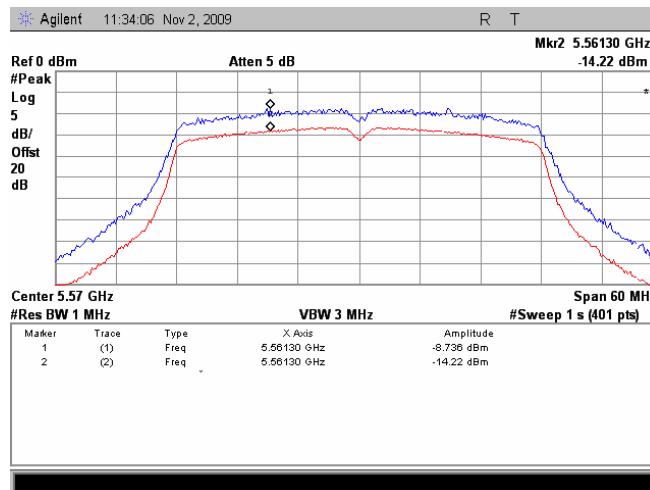
Plot 7.2.11 Peak excursion measurement

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



Plot 7.2.12 Peak excursion measurement

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

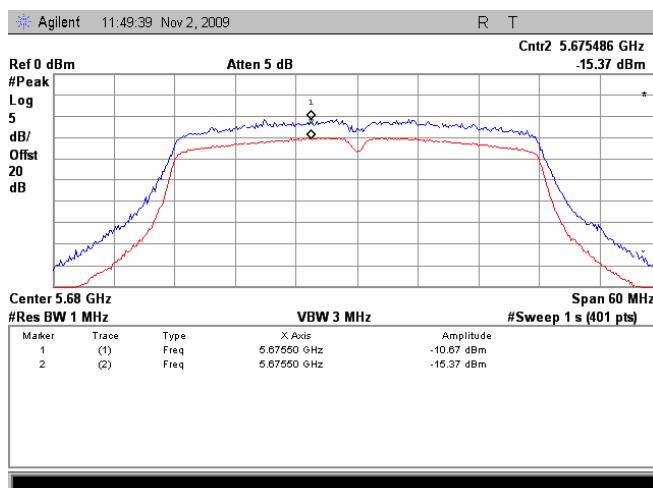




Test specification:	FCC section 15.407(a)(6), Ratio of the peak excursion of the modulation envelope to the peak transmit power		
Test procedure:	FCC Public Notice DA 02-2138, Appendix A		
Test mode:	Compliance	Verdict:	PASS
Date:	11/02/2009		
Temperature: 25 °C	Air Pressure: 1006 hPa	Relative Humidity: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

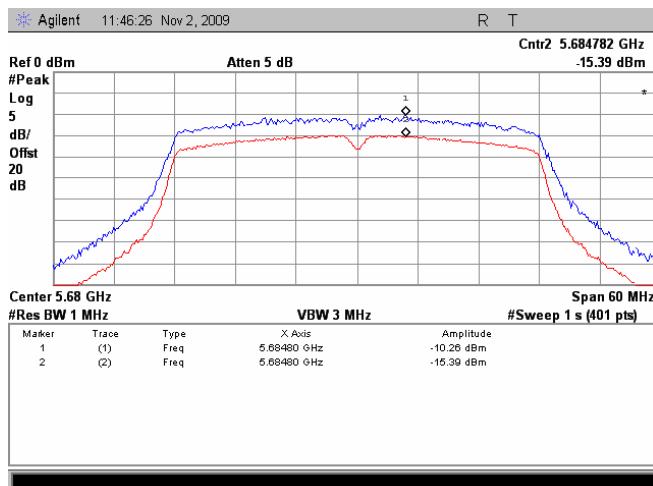
Plot.7.2.13 Peak excursion measurement

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



Plot.7.2.14 Peak excursion measurement

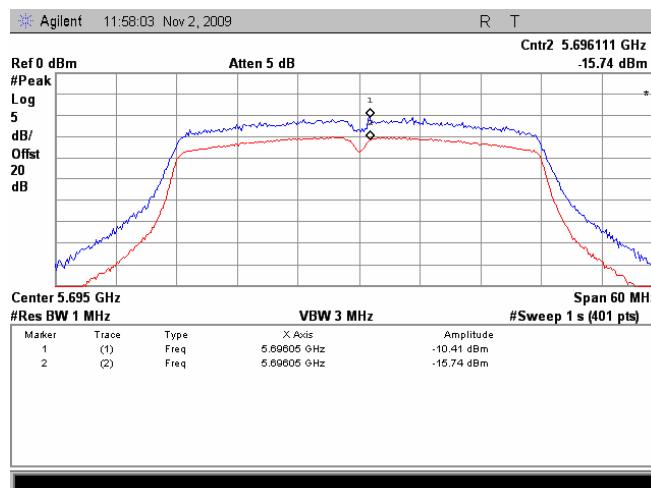
Frequency: 5680MHz
Channel BW: 40 MHz
Modulation parameters: 64QAM; 270 Mbps



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

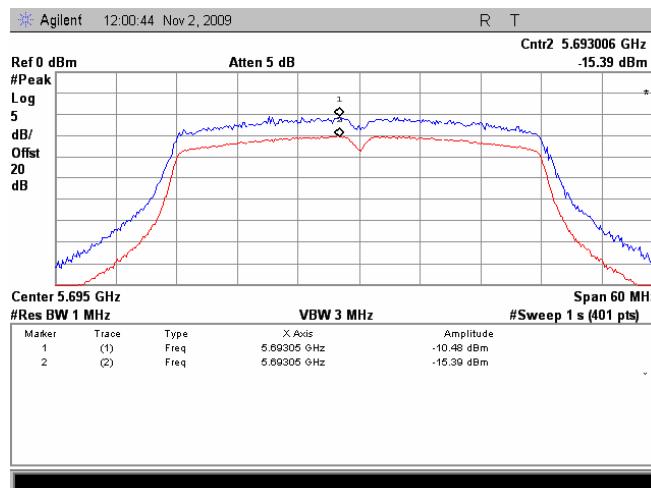
Plot 7.2.15 Peak excursion measurement

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



Plot 7.2.16 Peak excursion measurement

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



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

Table 7.2.3 Peak excursion test results

ASSIGNED FREQUENCY RANGE:
DETECTOR USED:

5470-5725 MHz
1-st trace : Peak, Max Hold
2-nd trace : Peak, 100 Power Averaging

TRANSMITTER OUTPUT POWER
RESOLUTION BANDWIDTH:
VIDEO BANDWIDTH:

1.72 dBm
1 MHz
3 MHz

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

Reference numbers of test equipment used

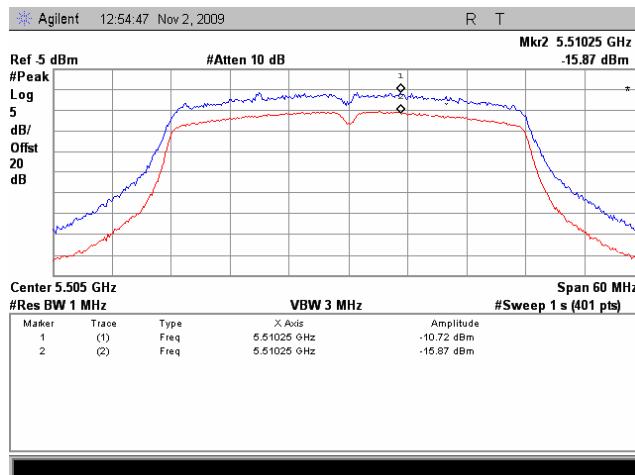
HL 2909	HL 2952	HL 3442					
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Full description is given in Appendix A.

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

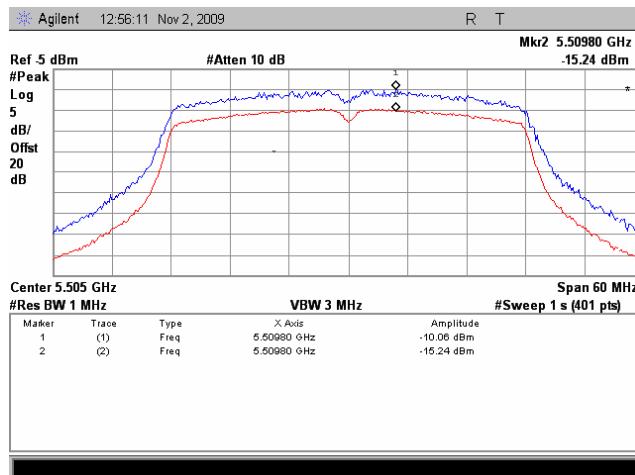
Plot.7.2.17 Peak excursion measurement

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



Plot.7.2.18 Peak excursion measurement

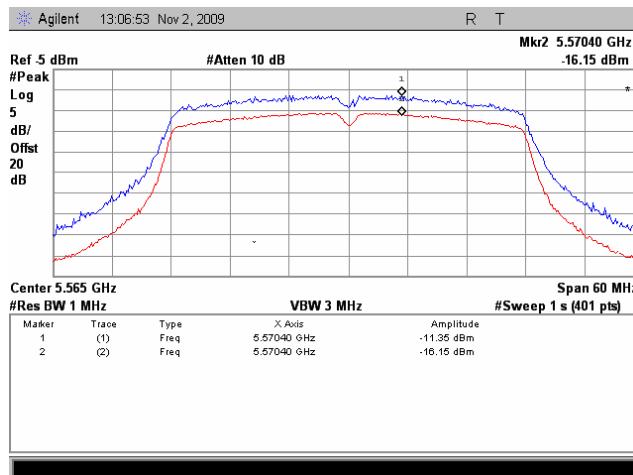
Frequency: 5505MHz
Channel BW: 40 MHz
Modulation parameters: 64QAM; 270 MBps



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

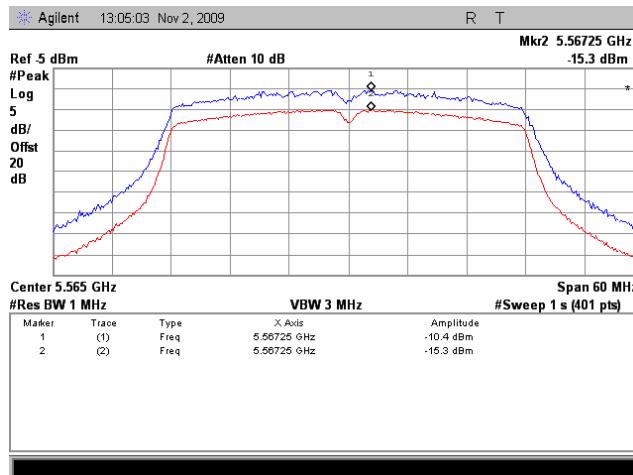
Plot 7.2.19 Peak excursion measurement

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



Plot 7.2.20 Peak excursion measurement

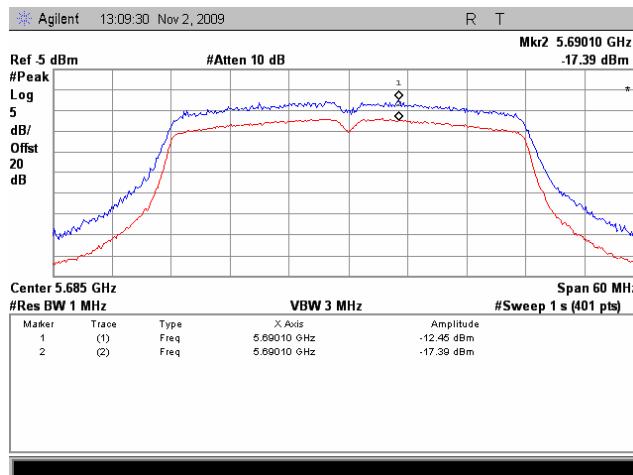
Frequency:	5565MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



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

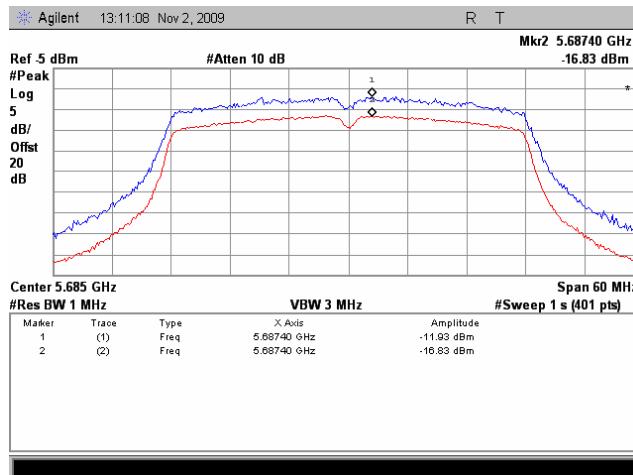
Plot 7.2.21 Peak excursion measurement

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



Plot 7.2.22 Peak excursion measurement

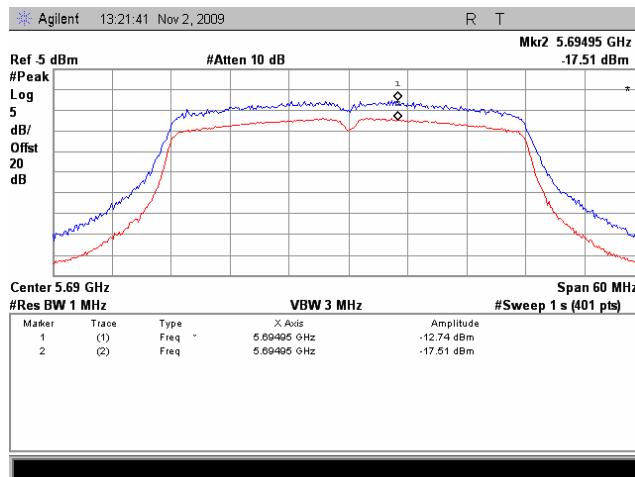
Frequency:	5685MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



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

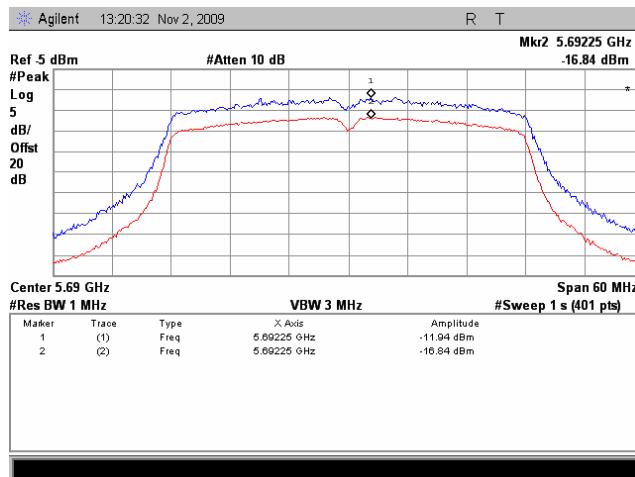
Plot.7.2.23 Peak excursion measurement

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



Plot.7.2.24 Peak excursion measurement

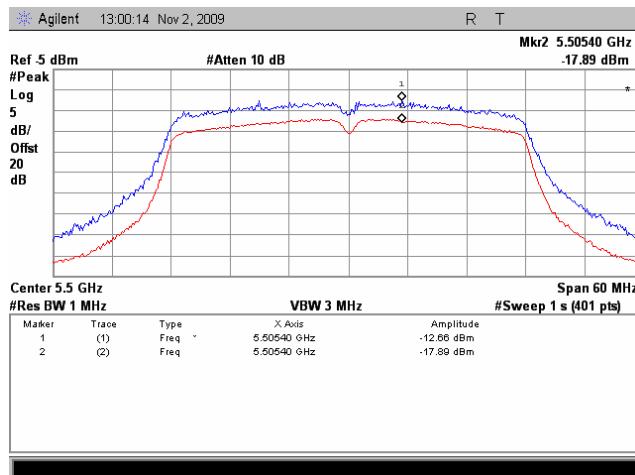
Frequency: 5690MHz
Channel BW: 40 MHz
Modulation parameters: 64QAM; 270 MBps



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

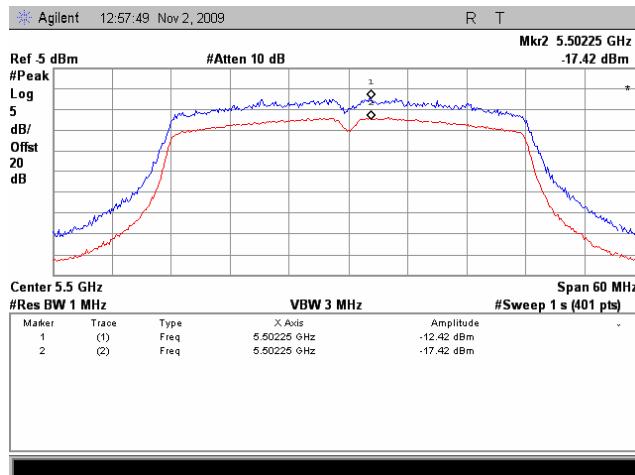
Plot 7.2.25 Peak excursion measurement

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



Plot 7.2.26 Peak excursion measurement

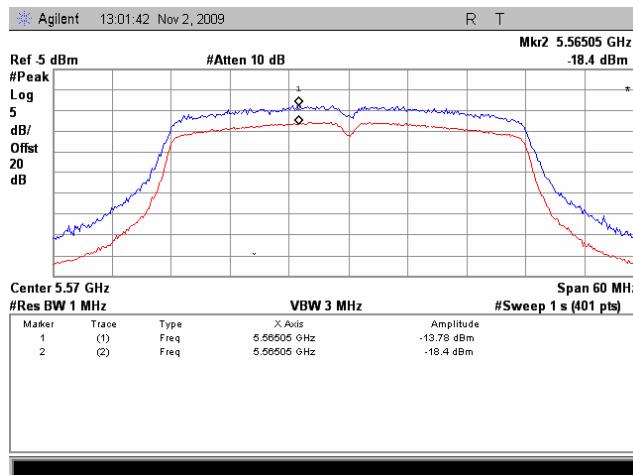
Frequency:	5500MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



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

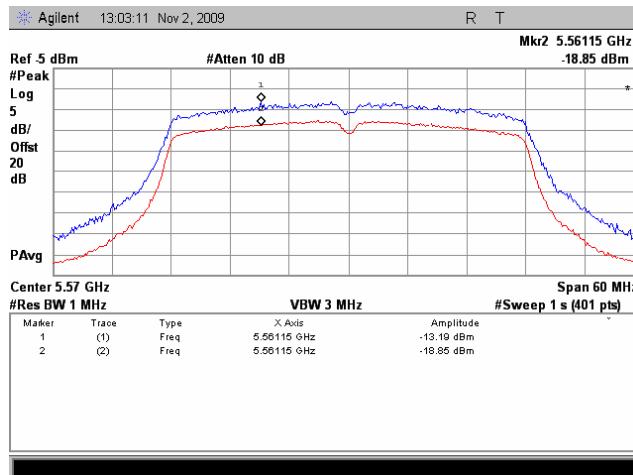
Plot 7.2.27 Peak excursion measurement

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



Plot 7.2.28 Peak excursion measurement

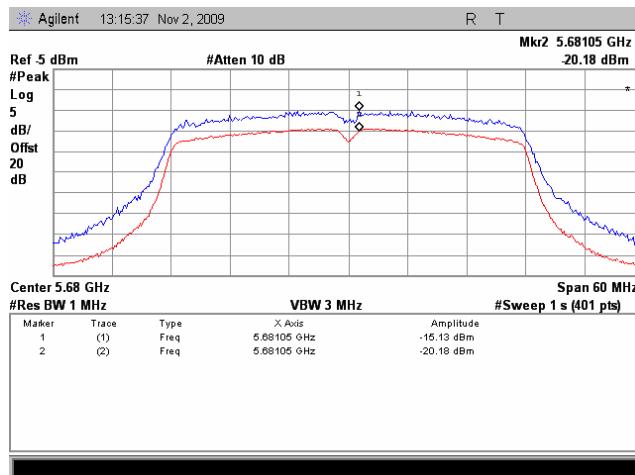
Frequency:	5570MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



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

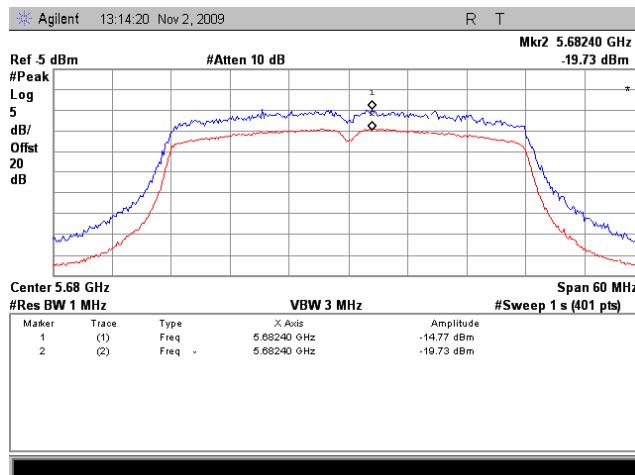
Plot.7.2.29 Peak excursion measurement

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



Plot.7.2.30 Peak excursion measurement

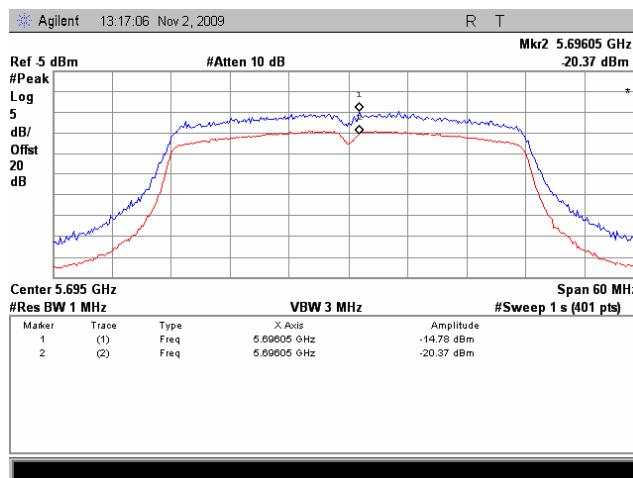
Frequency: 5680MHz
Channel BW: 40 MHz
Modulation parameters: 64QAM; 270 MBps



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

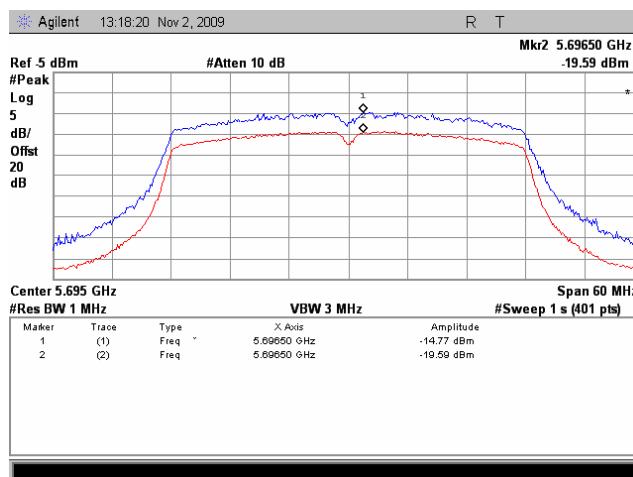
Plot 7.2.31 Peak excursion measurement

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



Plot 7.2.32 Peak excursion measurement

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



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

Table 7.2.4 Peak excursion test results

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

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

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

Table 7.2.5 Peak excursion test results

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

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

Table 7.2.6 Peak excursion test results

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

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

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

Table 7.2.7 Peak excursion test results

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

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

Reference numbers of test equipment used

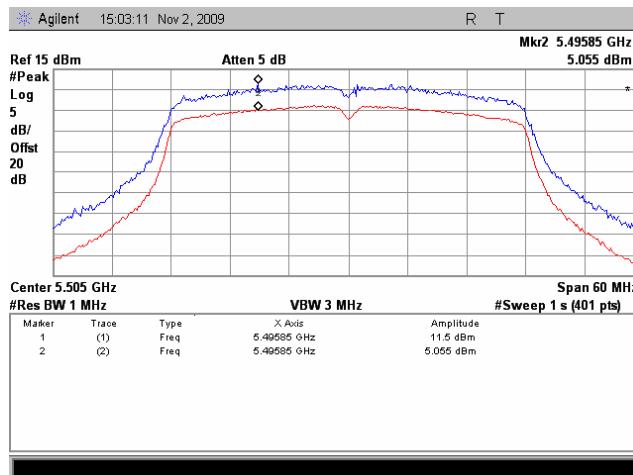
HL 2909	HL 2952	HL 3442					
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Full description is given in Appendix A.

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

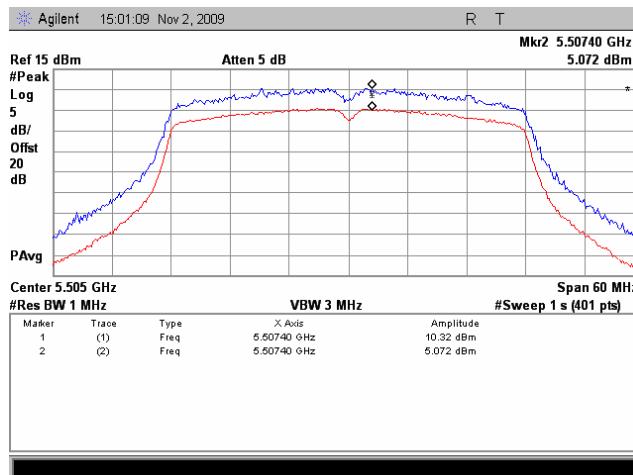
Plot.7.2.33 Peak excursion measurement

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



Plot.7.2.34 Peak excursion measurement

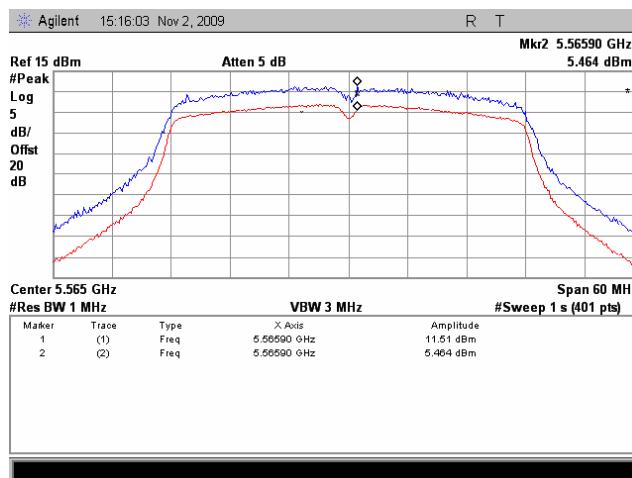
Frequency: 5505MHz
Channel BW: 40 MHz
Modulation parameters: 64QAM; 270 MBps



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

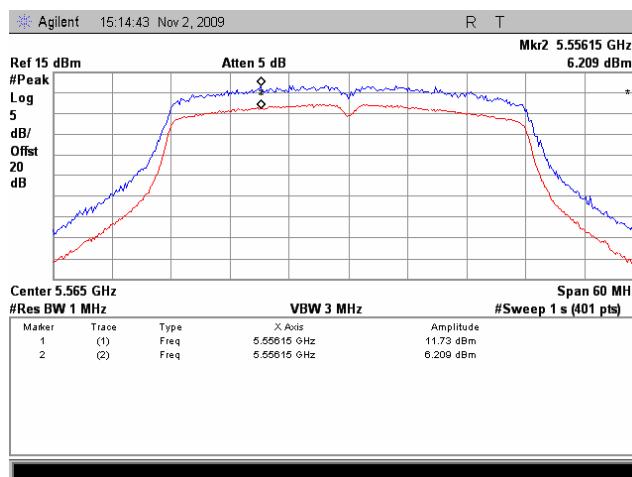
Plot 7.2.35 Peak excursion measurement

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



Plot 7.2.36 Peak excursion measurement

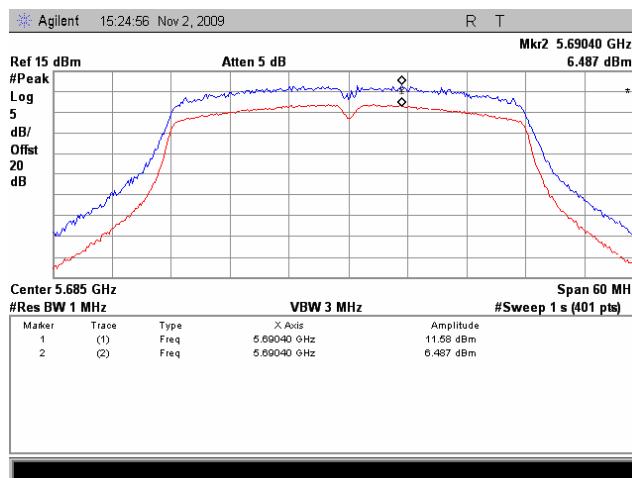
Frequency:	5565MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



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

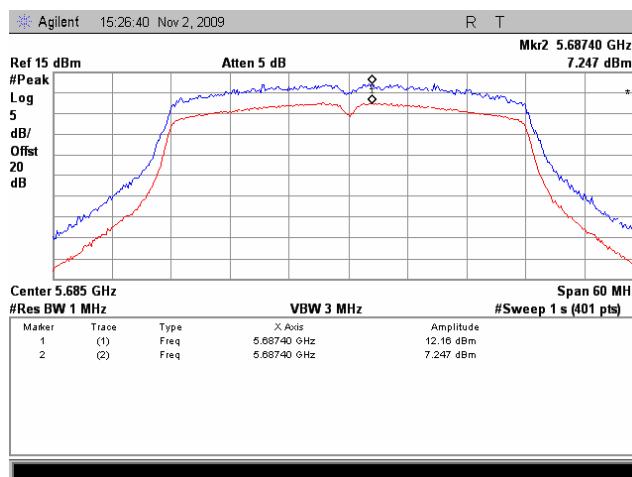
Plot 7.2.37 Peak excursion measurement

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



Plot 7.2.38 Peak excursion measurement

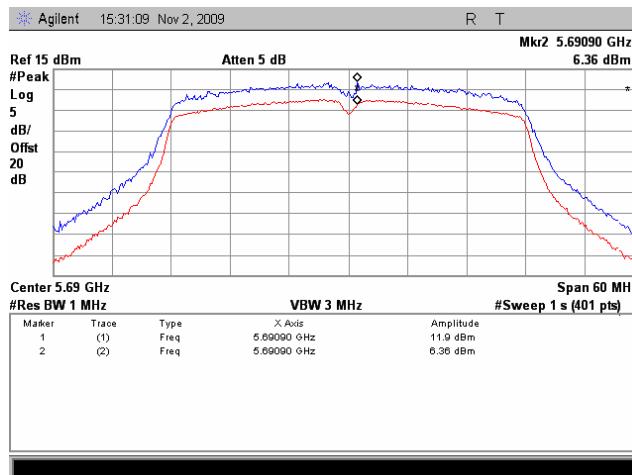
Frequency:	5685MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



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

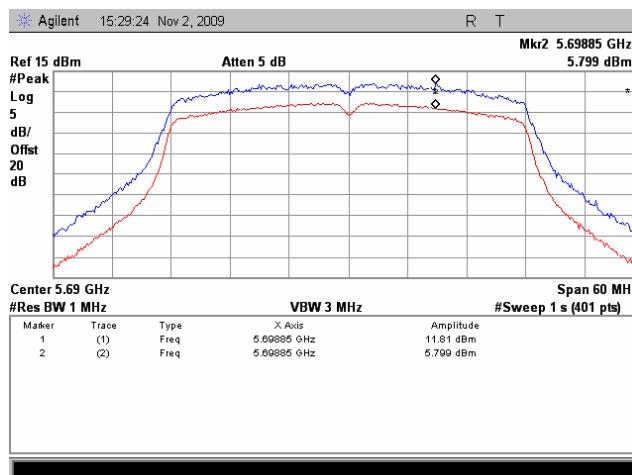
Plot.7.2.39 Peak excursion measurement

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



Plot.7.2.40 Peak excursion measurement

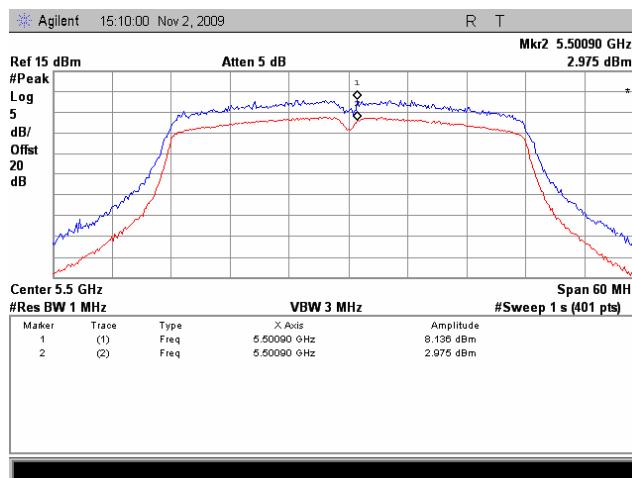
Frequency: 5690MHz
Channel BW: 40 MHz
Modulation parameters: 64QAM; 270 MBps



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

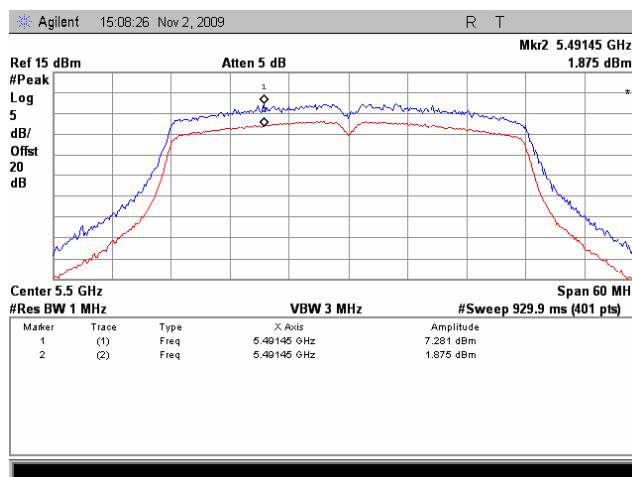
Plot 7.2.41 Peak excursion measurement

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



Plot 7.2.42 Peak excursion measurement

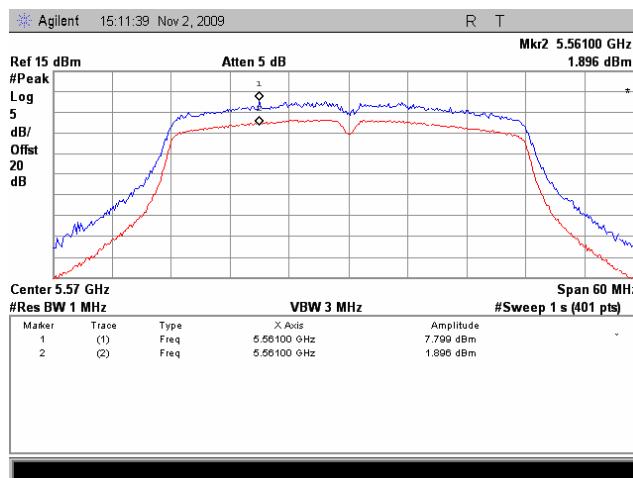
Frequency:	5500MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



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

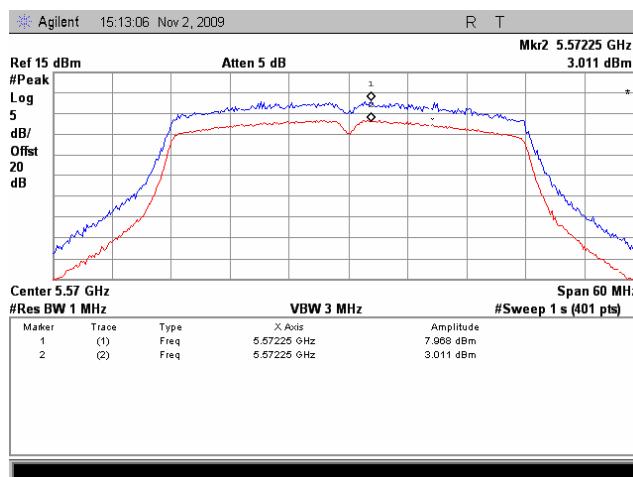
Plot 7.2.43 Peak excursion measurement

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



Plot 7.2.44 Peak excursion measurement

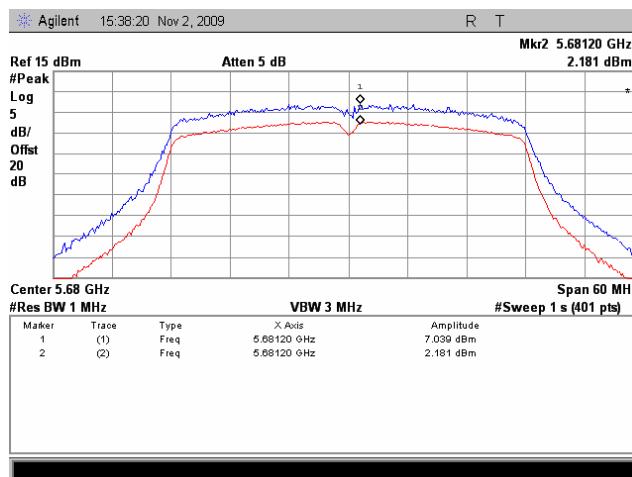
Frequency:	5570MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



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

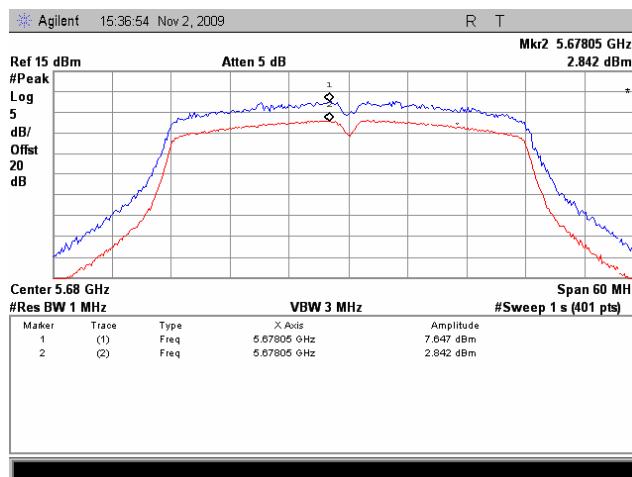
Plot.7.2.45 Peak excursion measurement

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



Plot.7.2.46 Peak excursion measurement

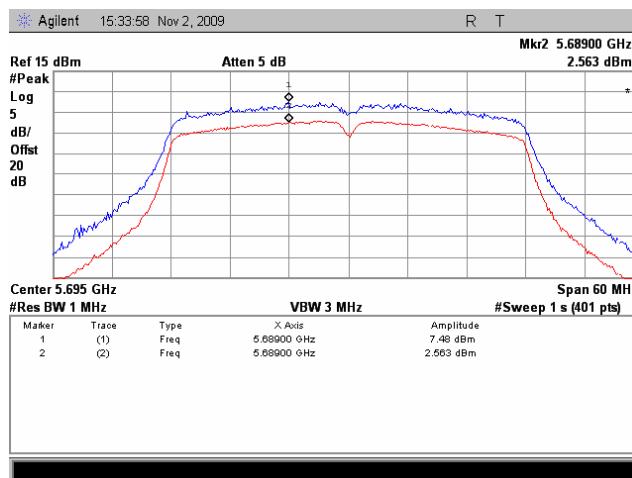
Frequency: 5680MHz
Channel BW: 40 MHz
Modulation parameters: 64QAM; 270 MBps



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

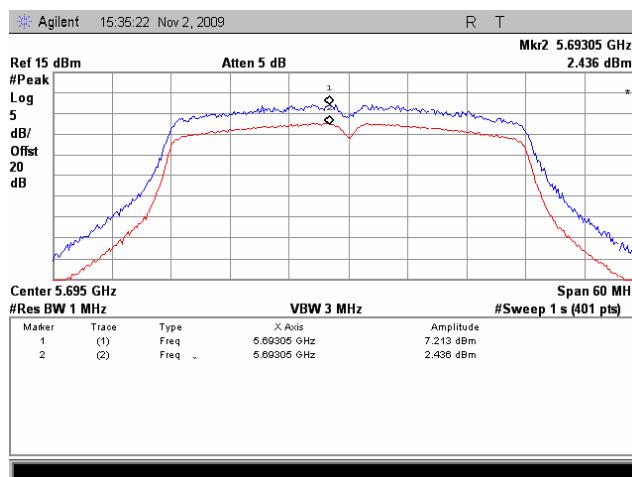
Plot 7.2.47 Peak excursion measurement

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



Plot 7.2.48 Peak excursion measurement

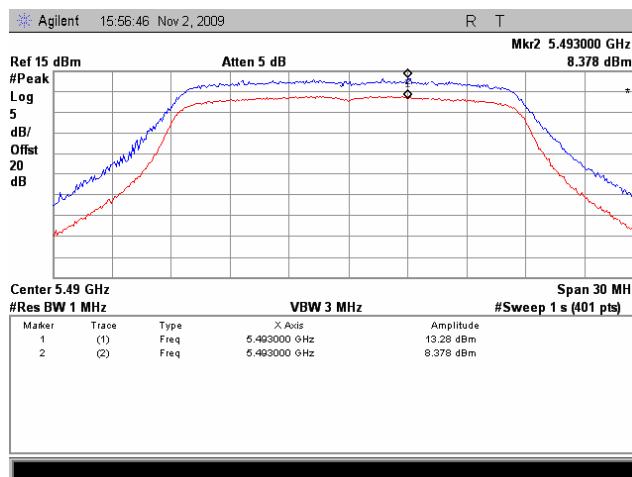
Frequency:	5695MHz
Channel BW:	40 MHz
Modulation parameters:	64QAM; 270 MBps



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

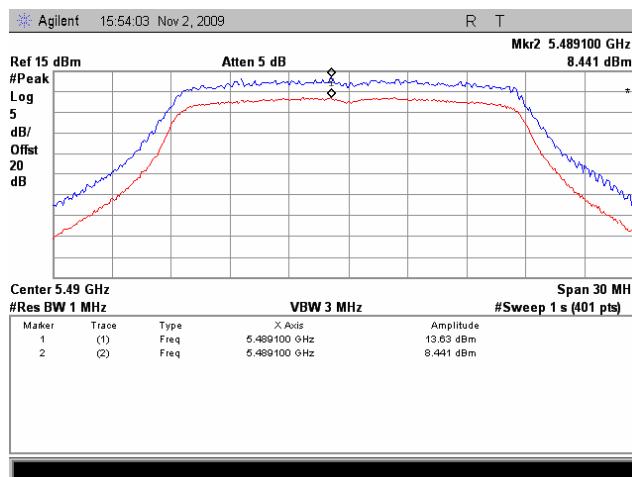
Plot.7.2.49 Peak excursion measurement

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



Plot.7.2.50 Peak excursion measurement

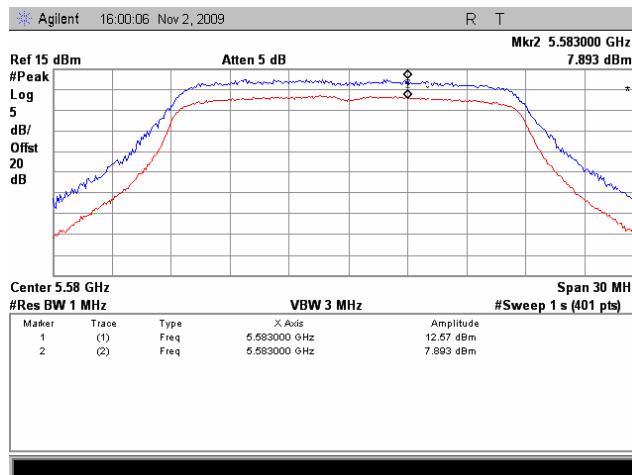
Frequency: 5490 MHz
Channel BW: 20 MHz
Modulation parameters: 64QAM; 130 MBps



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

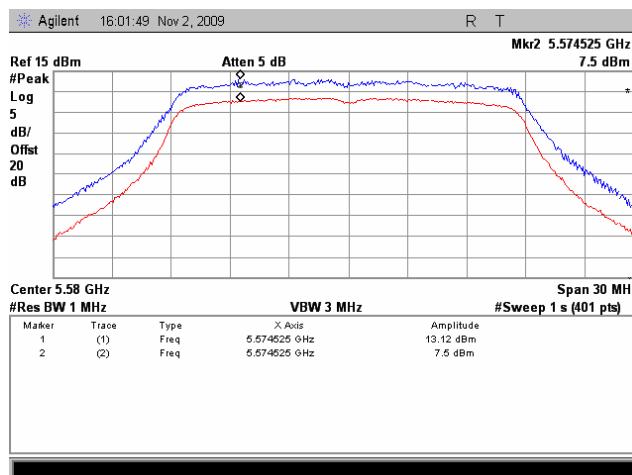
Plot.7.2.51 Peak excursion measurement

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



Plot.7.2.52 Peak excursion measurement

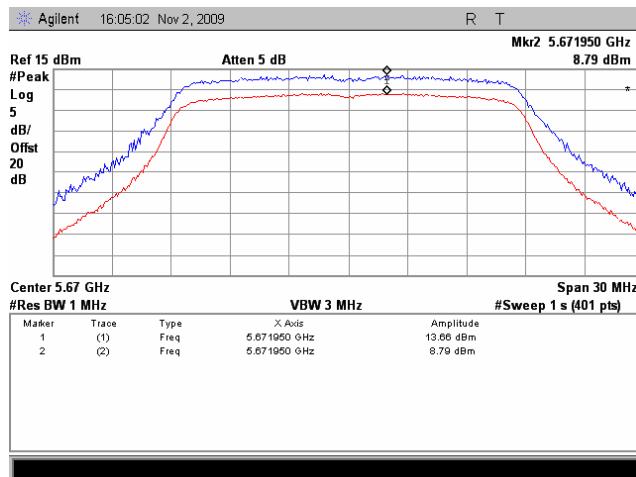
Frequency: 5580 MHz
Channel BW: 20 MHz
Modulation parameters: 64QAM; 130 MBps



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

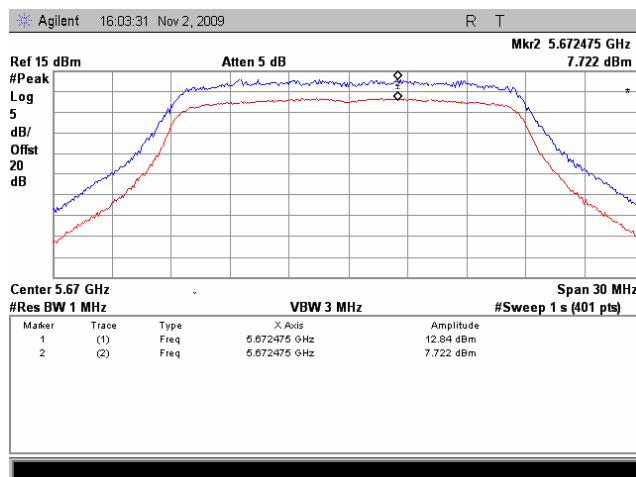
Plot.7.2.53 Peak excursion measurement

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



Plot.7.2.54 Peak excursion measurement

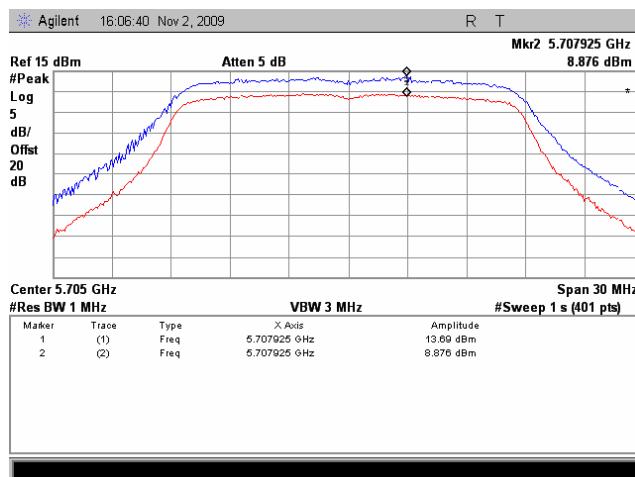
Frequency: 5670 MHz
Channel BW: 20 MHz
Modulation parameters: 64QAM; 130 MBps



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

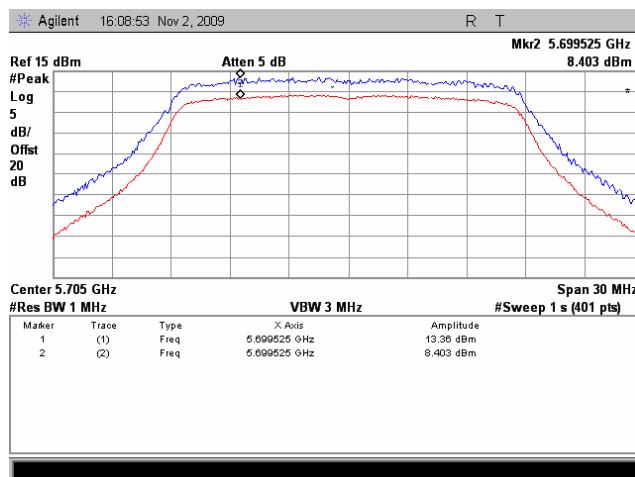
Plot.7.2.55 Peak excursion measurement

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



Plot.7.2.56 Peak excursion measurement

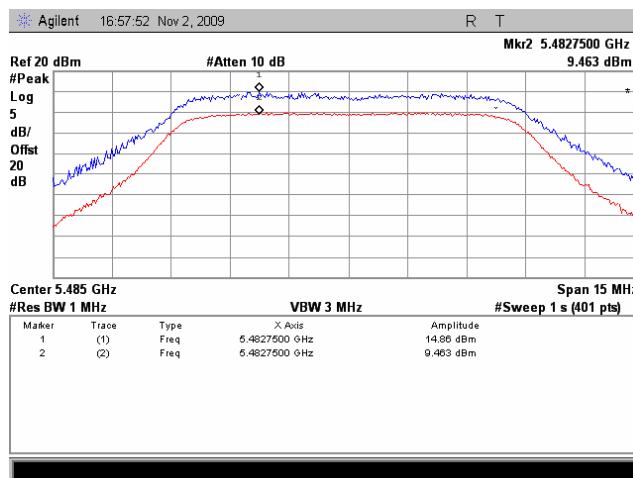
Frequency: 5705 MHz
Channel BW: 20 MHz
Modulation parameters: 64QAM; 130 MBps



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

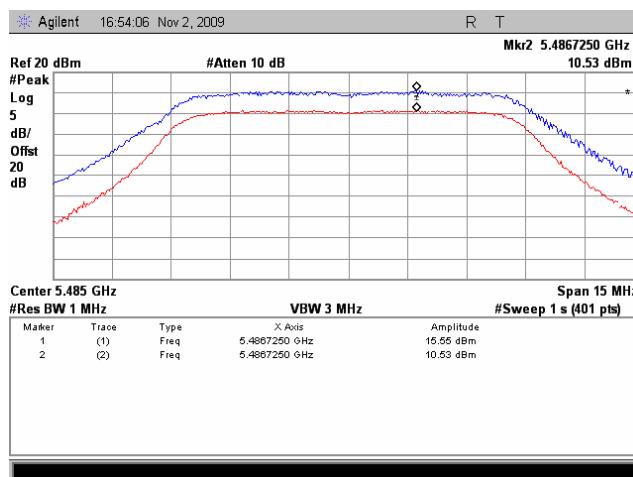
Plot 7.2.57 Peak excursion measurement

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



Plot 7.2.58 Peak excursion measurement

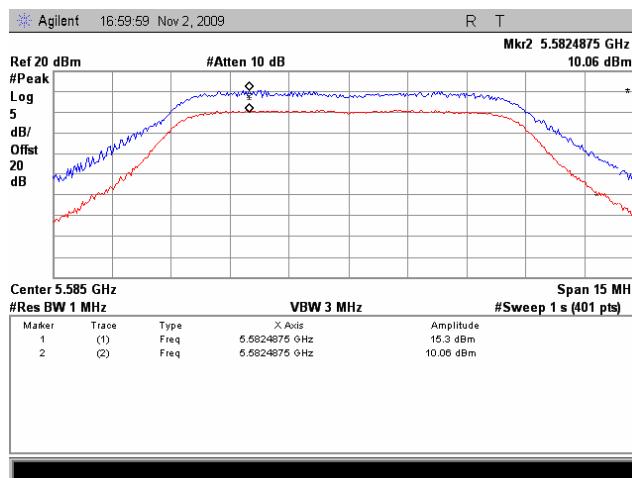
Frequency:	5485 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM; 65 MBps



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

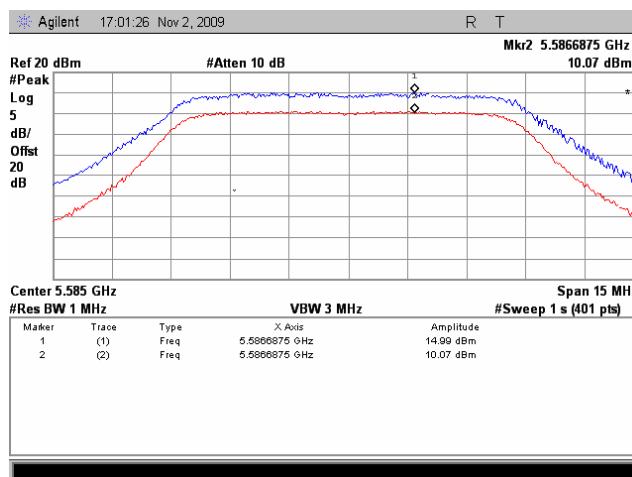
Plot 7.2.59 Peak excursion measurement

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



Plot 7.2.60 Peak excursion measurement

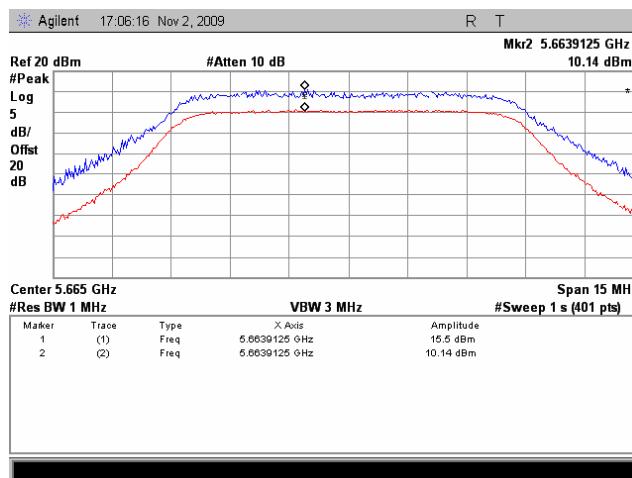
Frequency:	5585 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM; 65 MBps



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

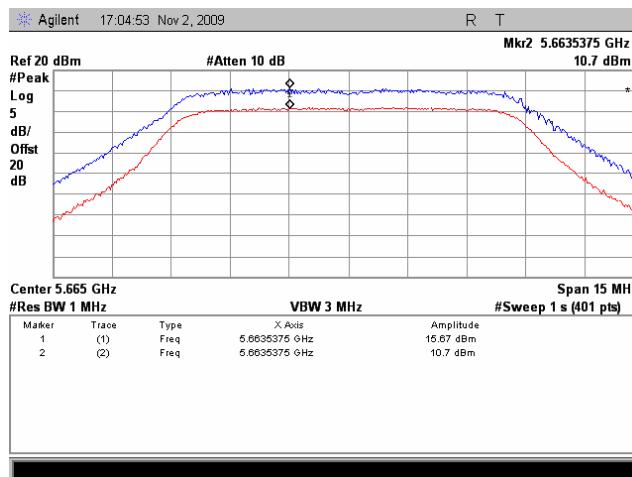
Plot 7.2.61 Peak excursion measurement

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



Plot 7.2.62 Peak excursion measurement

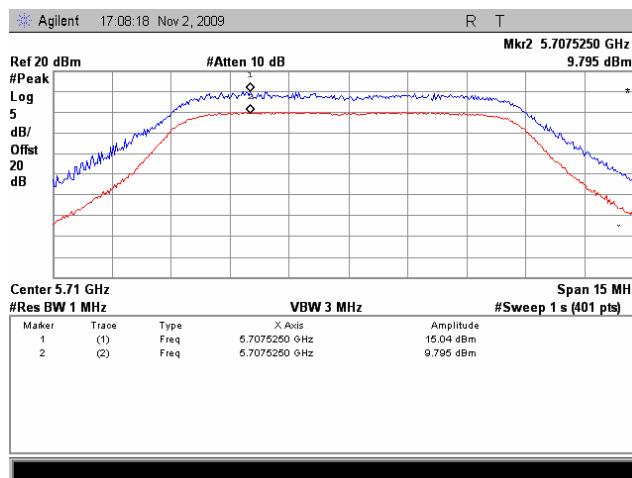
Frequency:	5665 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM; 65 MBps



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

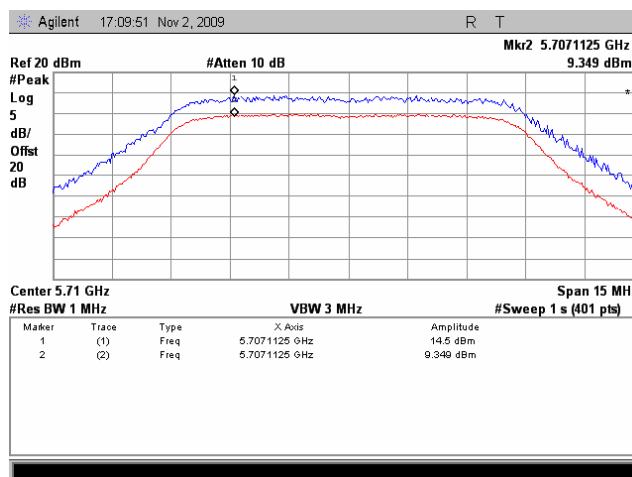
Plot 7.2.63 Peak excursion measurement

Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	BPSK; 6.5 MBps



Plot 7.2.64 Peak excursion measurement

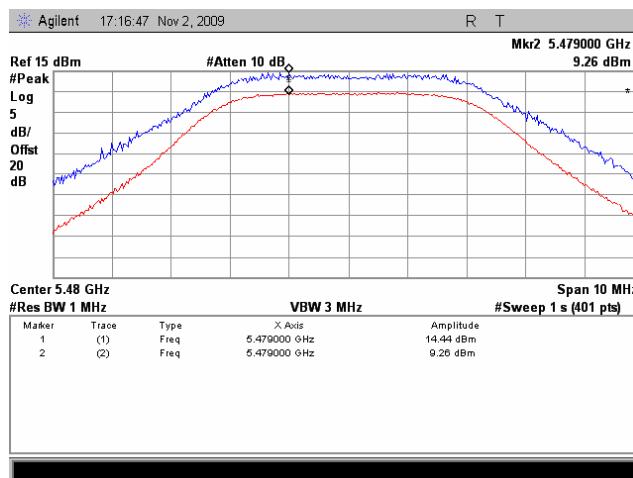
Frequency:	5710 MHz
Channel BW:	10 MHz
Modulation parameters:	64QAM; 65 MBps



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

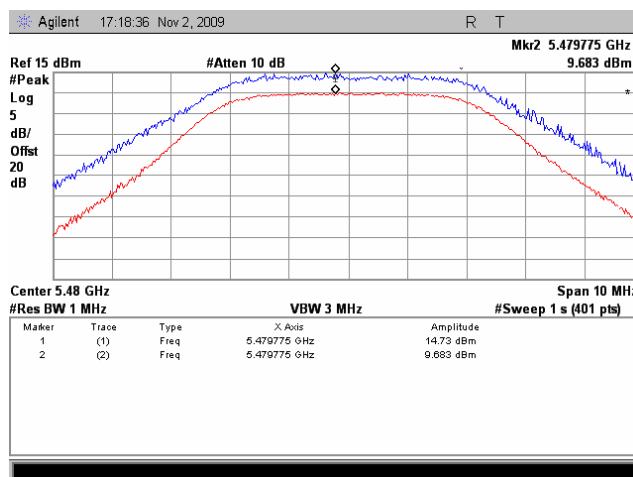
Plot 7.2.65 Peak excursion measurement

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



Plot 7.2.66 Peak excursion measurement

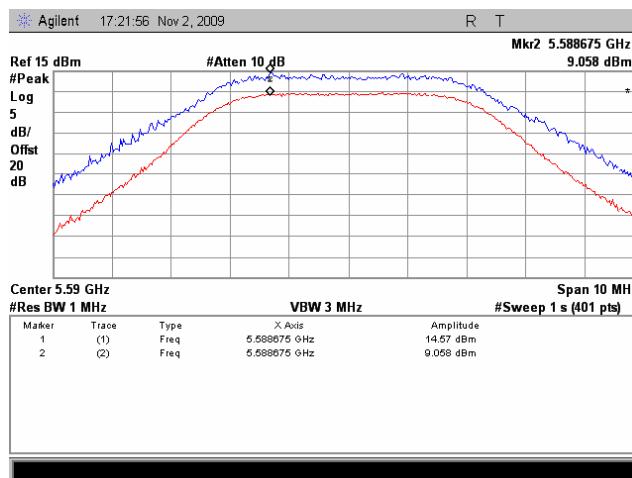
Frequency:	5480 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 32.5 MBps



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

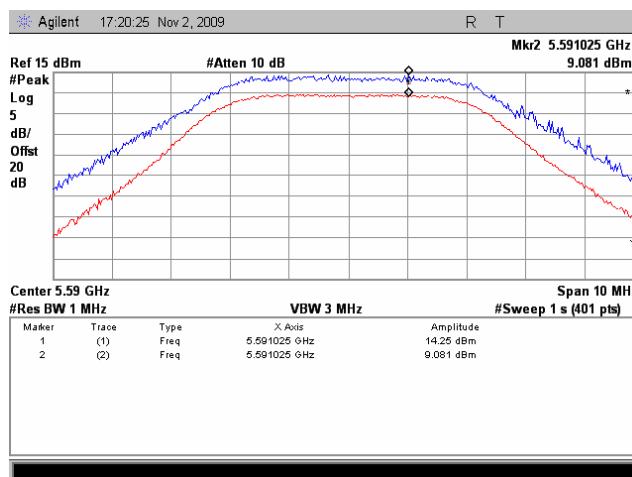
Plot 7.2.67 Peak excursion measurement

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



Plot 7.2.68 Peak excursion measurement

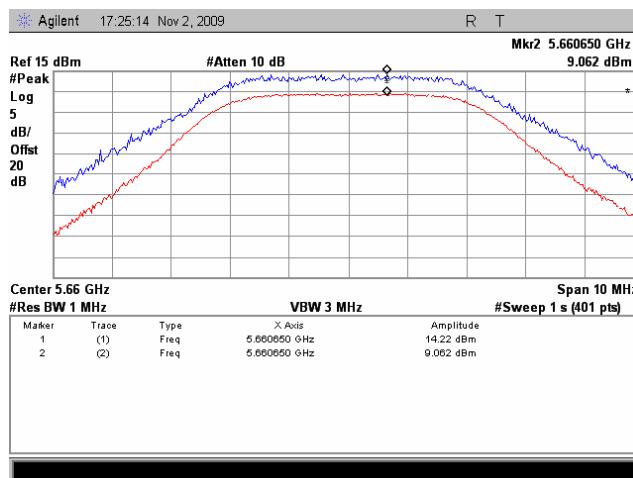
Frequency:	5590 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 32.5 MBps



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

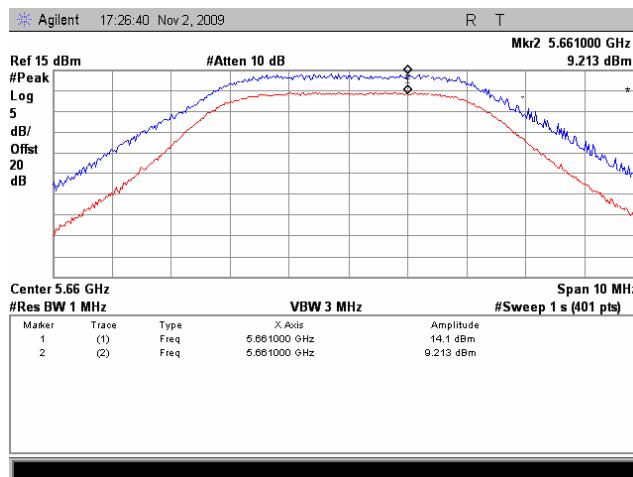
Plot 7.2.69 Peak excursion measurement

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



Plot 7.2.70 Peak excursion measurement

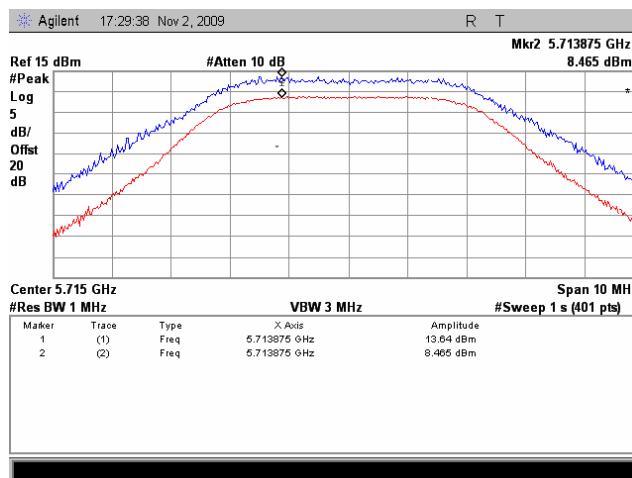
Frequency:	5660 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 32.5 MBps



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

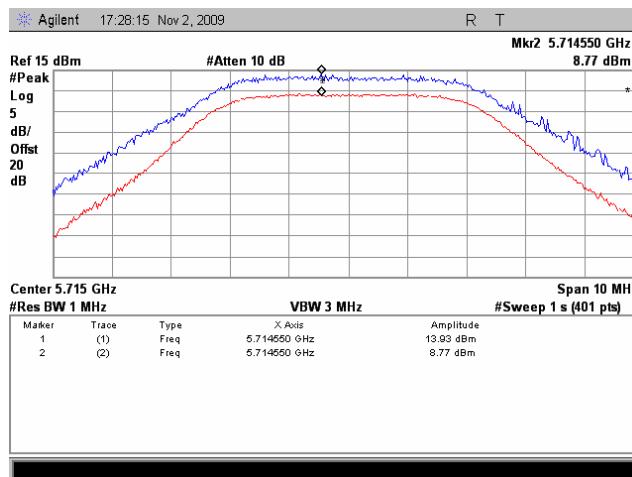
Plot 7.2.71 Peak excursion measurement

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



Plot 7.2.72 Peak excursion measurement

Frequency:	5715 MHz
Channel BW:	5 MHz
Modulation parameters:	64QAM; 32.5 MBps



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

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(μ V/m)***		
	Peak	Quasi Peak	Average
0.009 – 0.490*	NA	128.5 – 93.8**	NA
0.490 – 1.705*		73.8 – 63.0**	
1.705 – 30.0*		69.5**	
30 – 88		40.0	
88 – 216		43.5	
216 – 960		46.0	
960 - 1000		54.0	
Above 1000	74.0	NA	54.0

* - The limit for 3 m test distance was calculated using the inverse square distance extrapolation factor as follows:

$$\text{LimS2} = \text{LimS1} + 40 \log (\text{S1}/\text{S2})$$
,

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(μ 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.

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

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

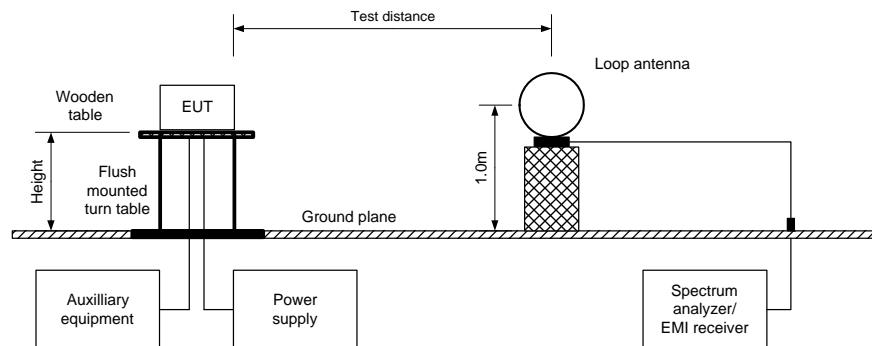
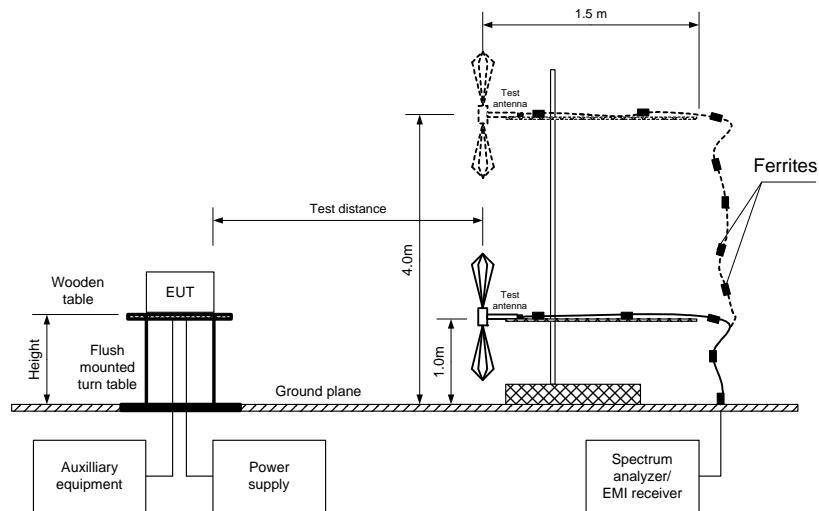


Figure 7.3.2 Setup for spurious emission field strength measurements above 30 MHz



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

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

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

NOTE:

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

*- Margin = Measured emission – specification limit.

**- EUT front panel refers to 0 degrees position of turntable.

Reference numbers of test equipment used

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



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

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

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

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

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

*- Margin = Measured emission – specification limit.

**- EUT front panel refers to 0 degrees position of turntable.

Reference numbers of test equipment used

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

Full description is given in Appendix A.

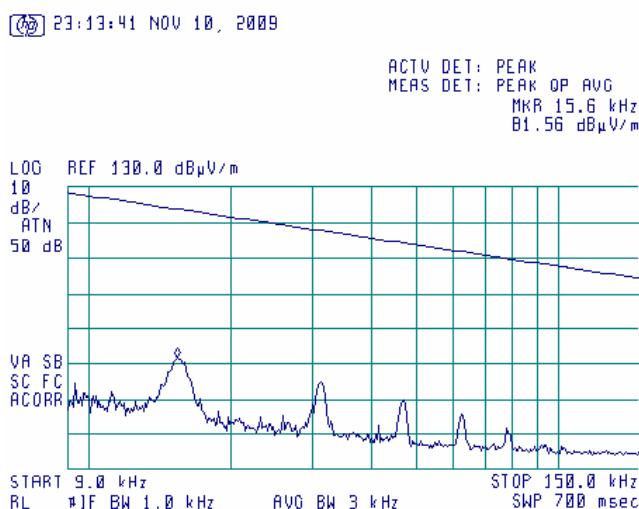
Table 7.3.5 Restricted bands

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

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

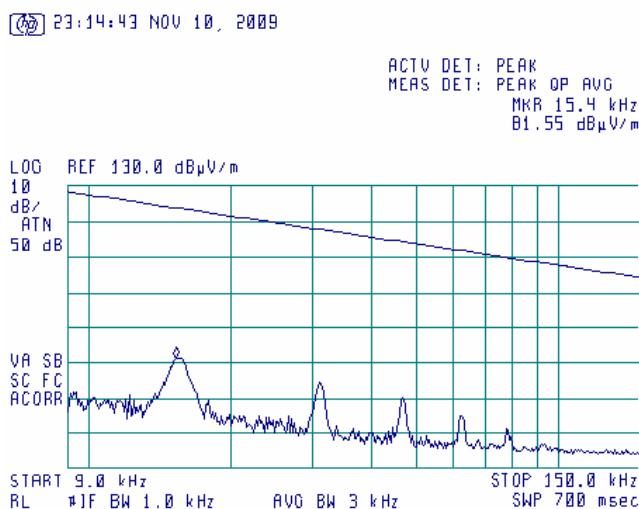
Plot 7.3.1 Radiated emission measurements from 9 to 150 kHz at the low carrier frequency

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



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

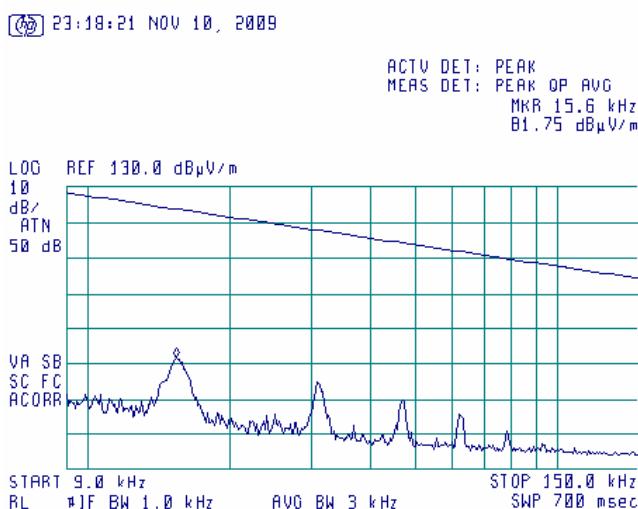
TEST SITE: Anechoic chamber
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal



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

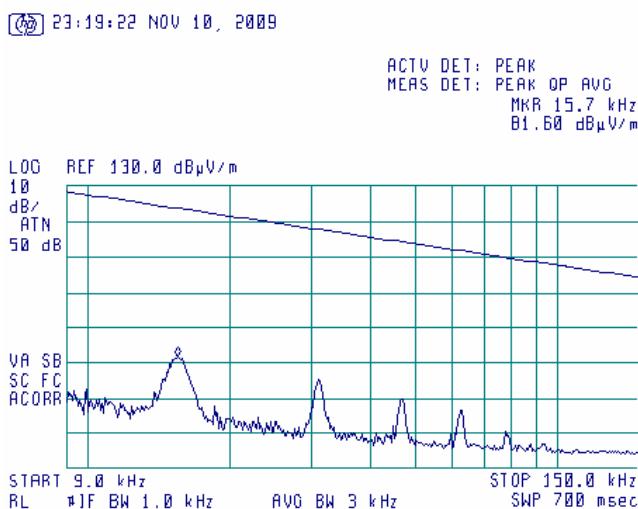
Plot 7.3.3 Radiated emission measurements from 9 to 150 kHz at the second mid carrier frequency

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



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

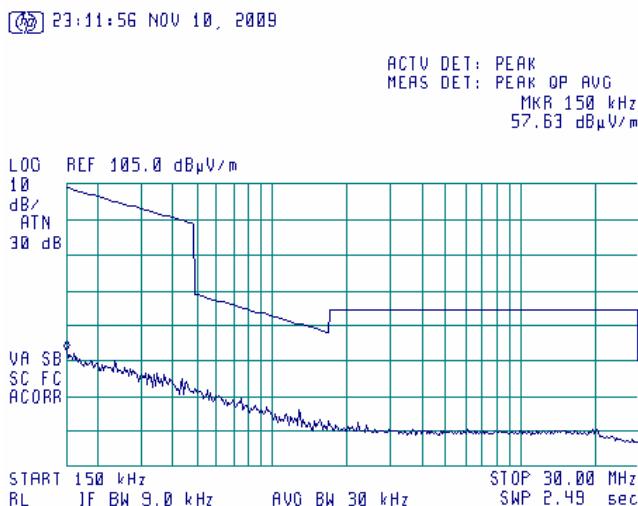
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



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

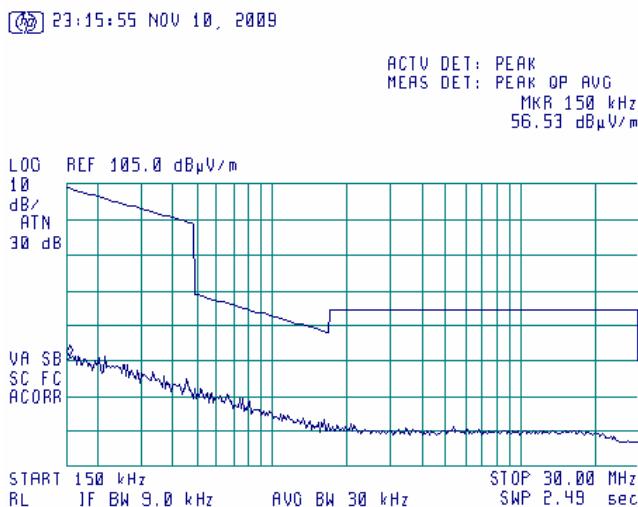
Plot 7.3.5 Radiated emission measurements from 0.15 MHz to 30 MHz at the low carrier frequency

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



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

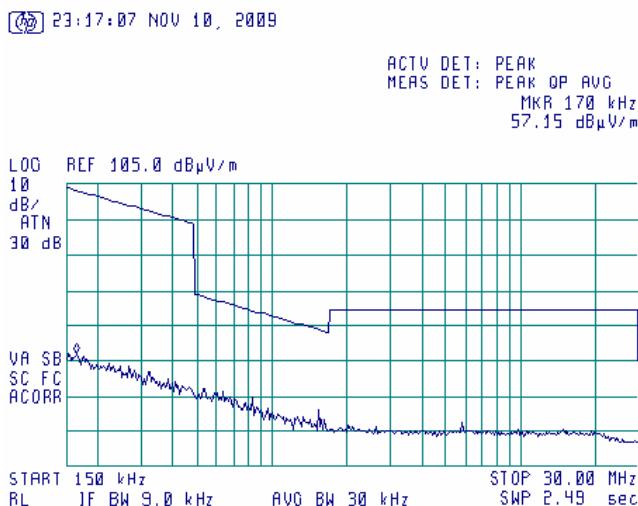
TEST SITE: Anechoic chamber
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal



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

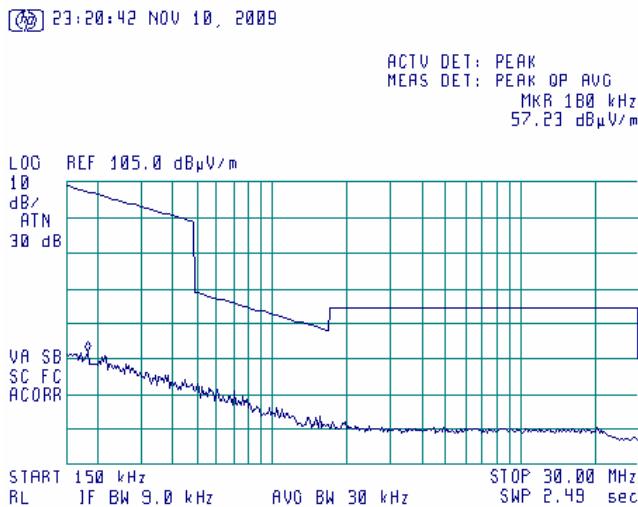
Plot 7.3.7 Radiated emission measurements from 0.15 MHz to 30 MHz at the second mid carrier frequency

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



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

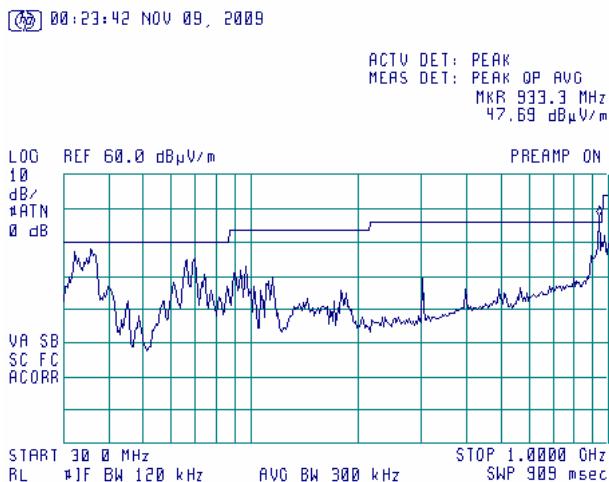
TEST SITE: Anechoic chamber
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal



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

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

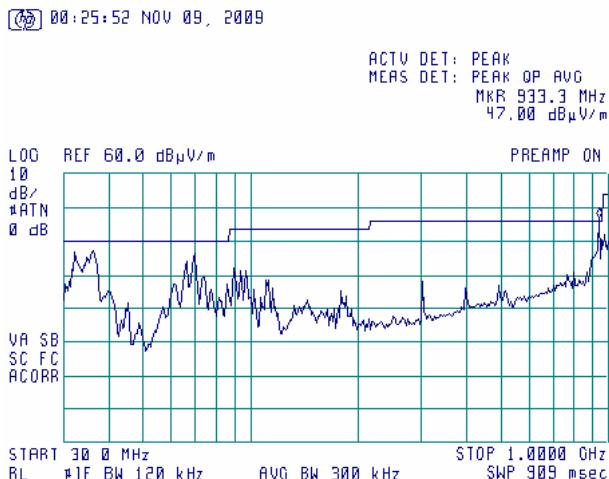
TEST SITE: Semi Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Note: Maximum peak emission was found outside restricted band

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

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



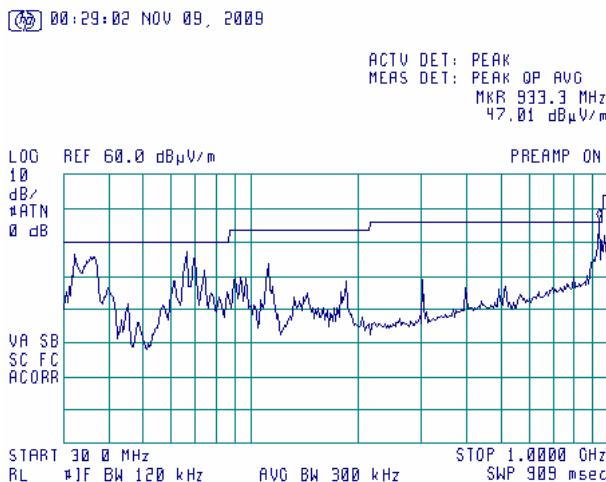
Note: Maximum peak emission was found outside restricted band



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

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

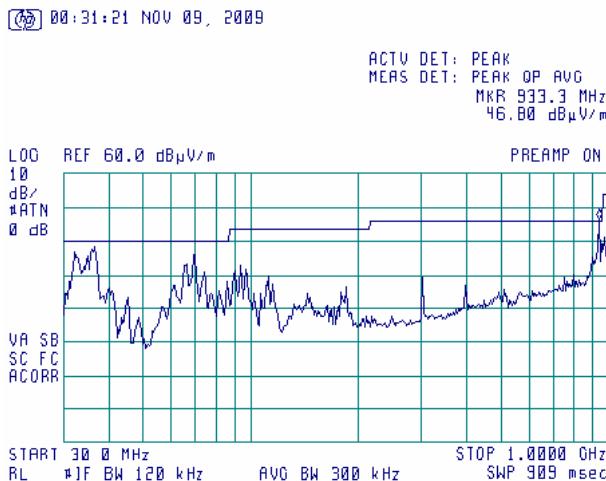
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal



Note: Maximum peak emission was found outside restricted band

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

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

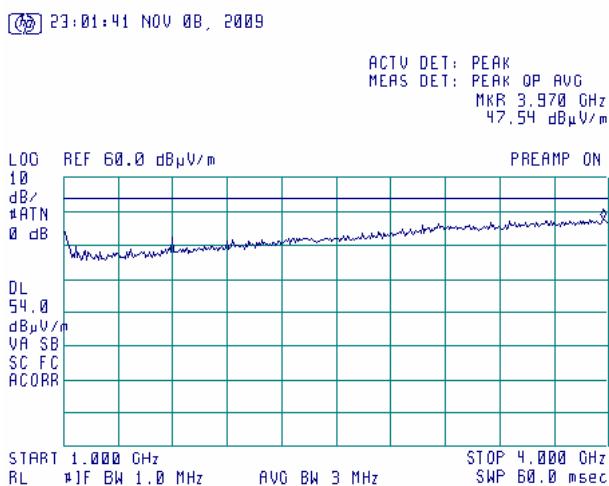


Note: Maximum peak emission was found outside restricted band

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

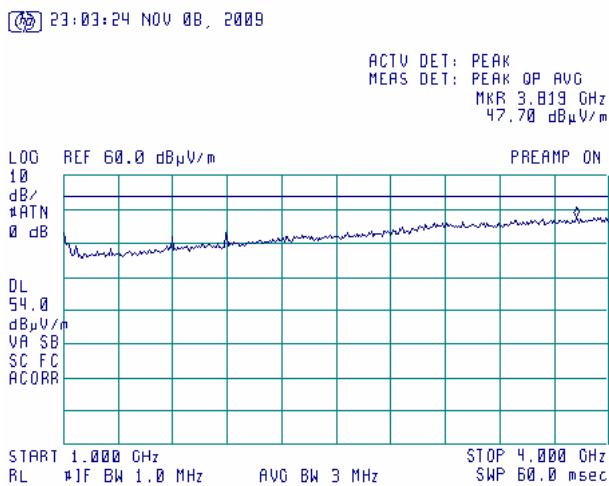
Plot 7.3.13 Radiated emission measurements from 1.0 to 4.0 GHz at the low carrier frequency

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



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

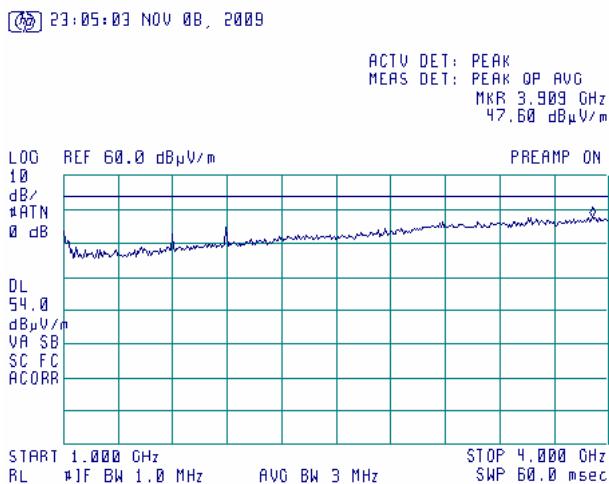




Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	11/09/2009		
Temperature: 24°C	Air Pressure: 1015 hPa	Relative Humidity: 47 %	Power Supply: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

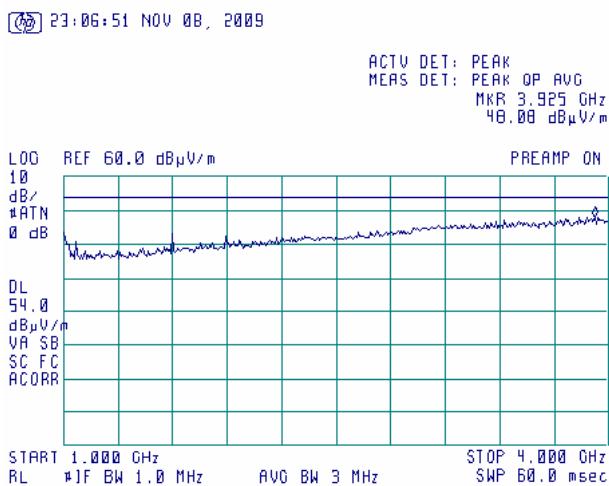
Plot 7.3.15 Radiated emission measurements from 1.0 to 4.0 GHz at the second mid carrier frequency

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



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

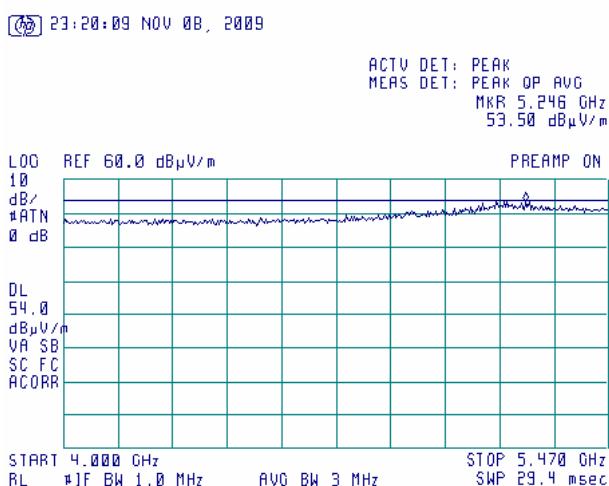
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Peak under average limit



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

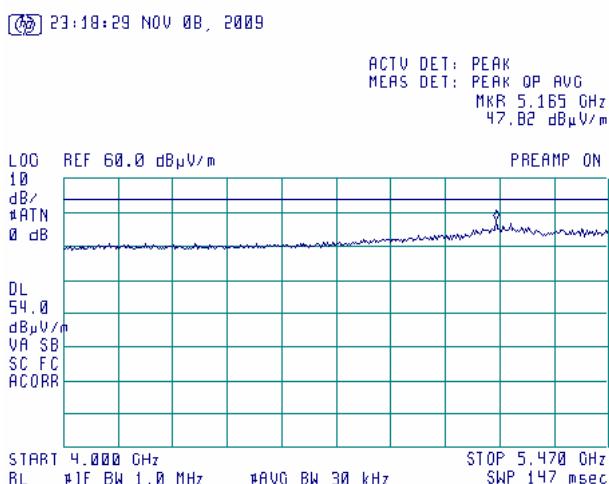
Plot 7.3.17 Radiated emission measurements from 4.0 to 5.47 GHz at the low carrier frequency

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



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

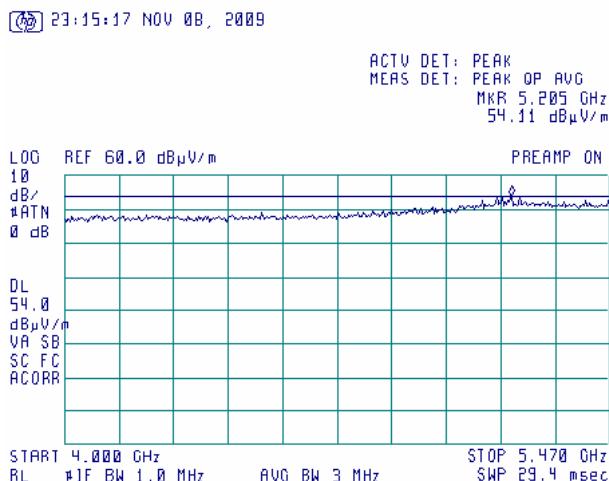
TEST SITE: Anechoic chamber
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 DETECTOR: Average



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

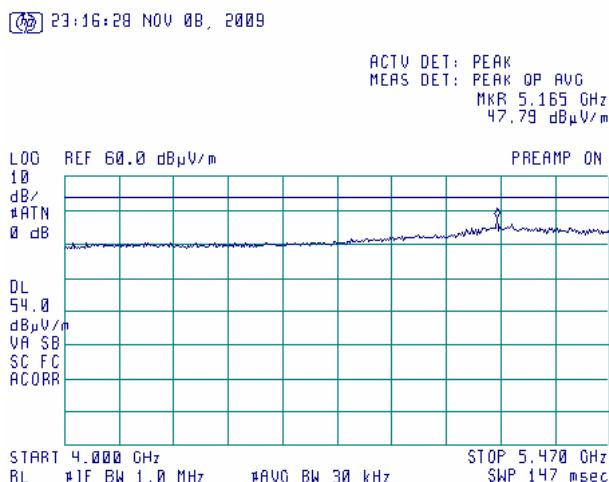
Plot 7.3.19 Radiated emission measurements from 4.0 to 5.47 GHz at the first mid carrier frequency

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



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

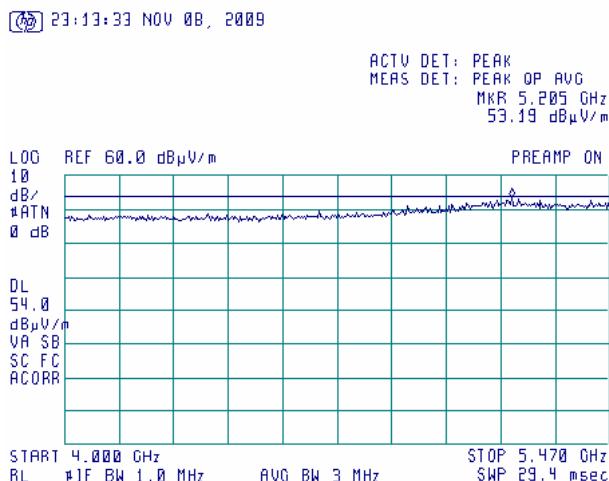
TEST SITE: Anechoic chamber
 TEST DISTANCE: 3 m
 ANTENNA POLARIZATION: Vertical and Horizontal
 DETECTOR: Average



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

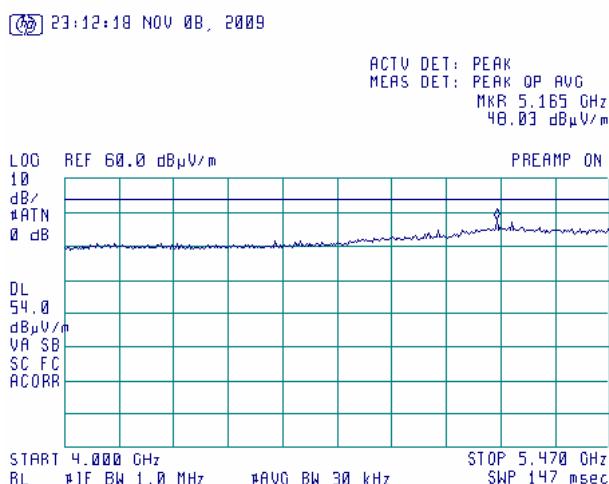
Plot 7.3.21 Radiated emission measurements from 4.0 to 5.47 GHz at the second mid carrier frequency

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



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

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

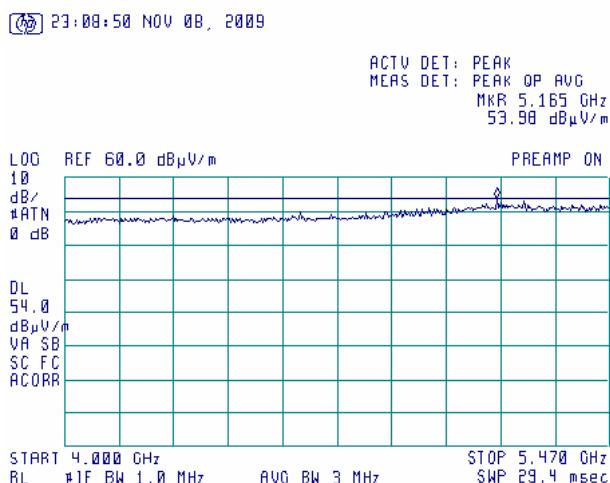




Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: PASS	
Date:	11/09/2009		
Temperature: 24°C	Air Pressure: 1015 hPa	Relative Humidity: 47 %	Power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

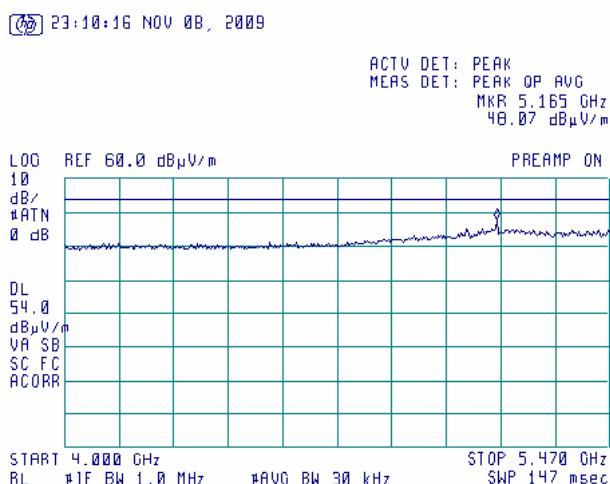
Plot 7.3.23 Radiated emission measurements from 4.0 to 5.47 GHz at the high carrier frequency

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



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

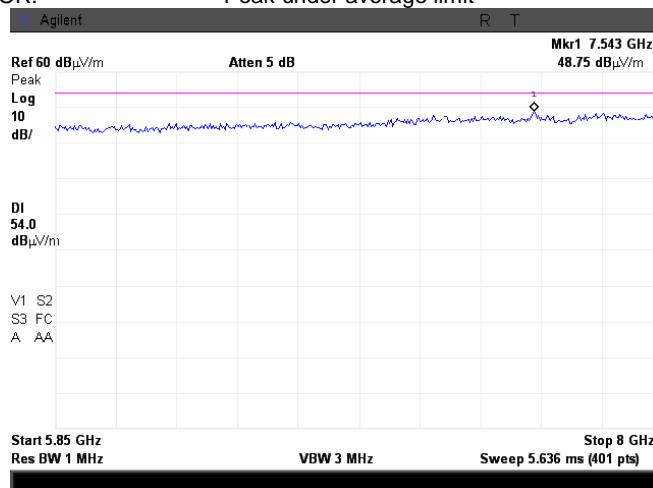
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



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

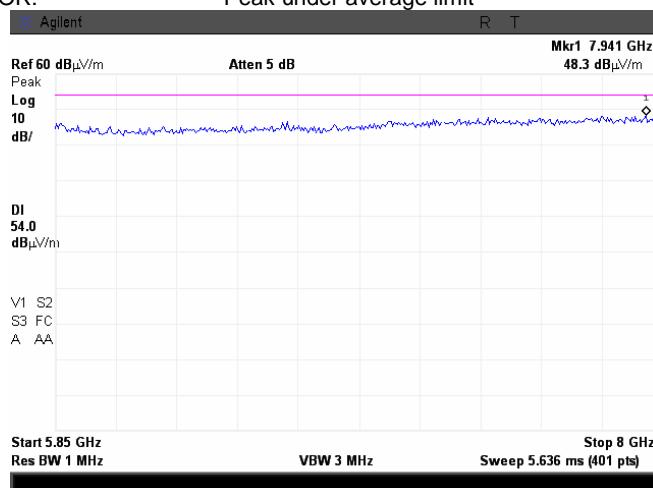
Plot 7.3.25 Radiated emission measurements from 5.85 to 8 GHz at the low carrier frequency

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



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

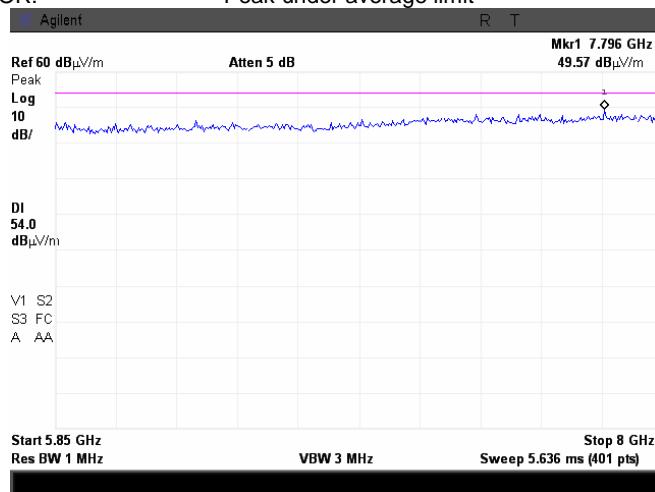
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Peak under average limit



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

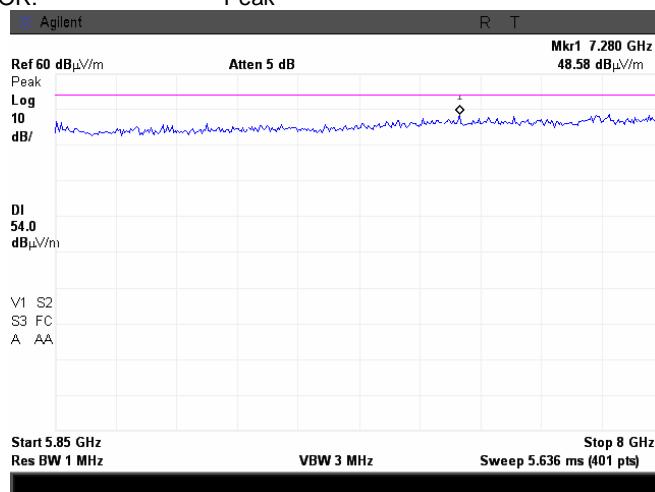
Plot 7.3.27 Radiated emission measurements from 5.85 to 8 GHz at the second mid carrier frequency

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



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

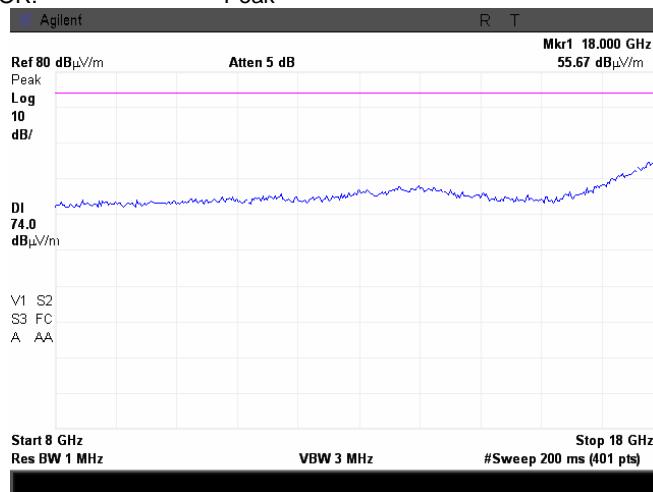
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Peak



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

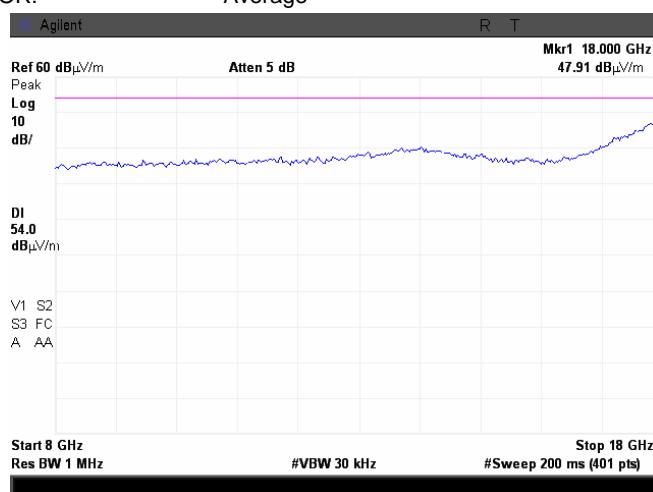
Plot 7.3.29 Radiated emission measurements from 8 to 18 GHz at the low carrier frequency

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



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

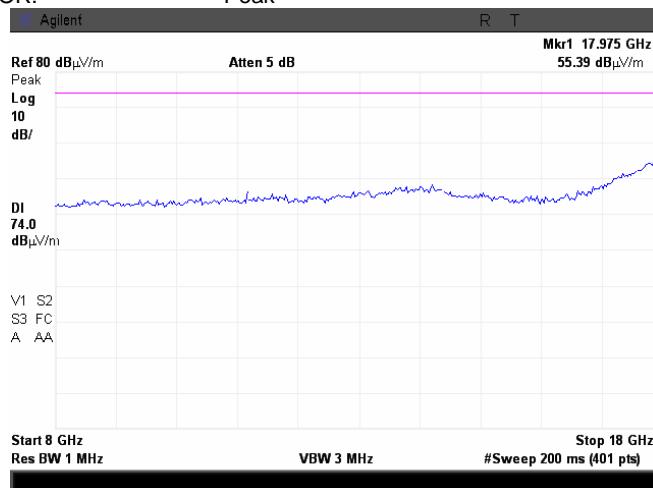
TEST SITE: Anechoic chamber
TEST DISTANCE: 3 m
ANTENNA POLARIZATION: Vertical and Horizontal
DETECTOR: Average



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

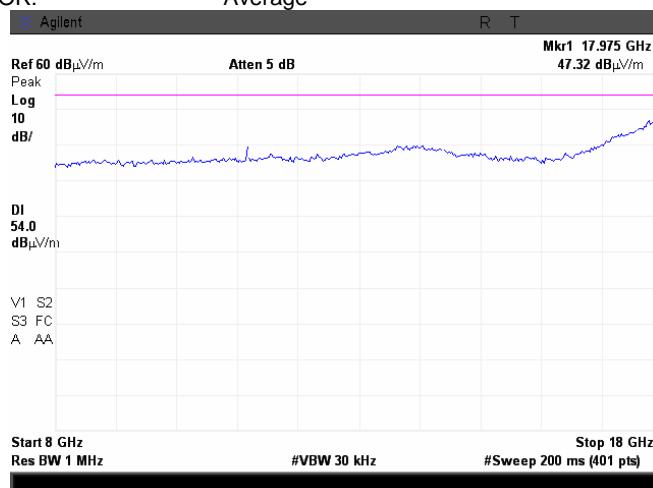
Plot 7.3.31 Radiated emission measurements from 8 to 18 GHz at the first mid carrier frequency

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



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

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

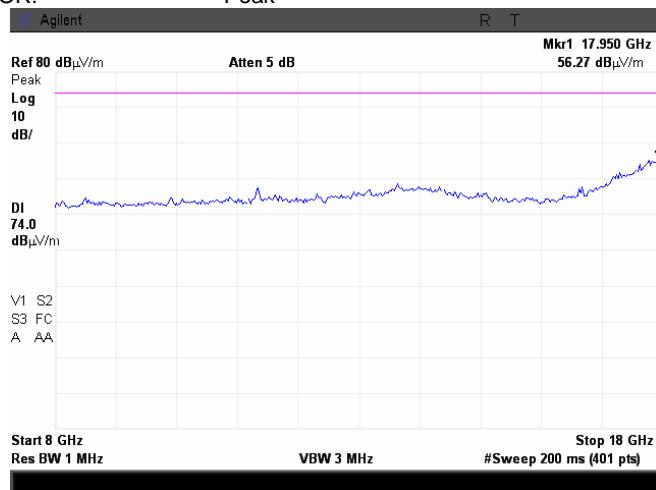




Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	11/09/2009		
Temperature: 24°C	Air Pressure: 1015 hPa	Relative Humidity: 47 %	Power Supply: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

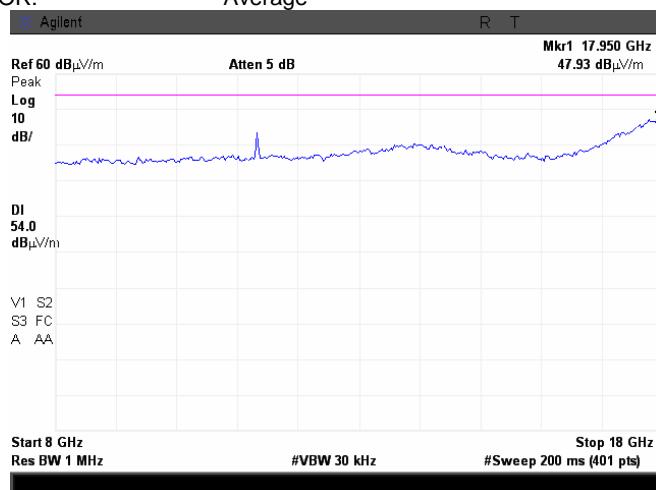
Plot 7.3.33 Radiated emission measurements from 8 to 18 GHz at the second mid carrier frequency

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



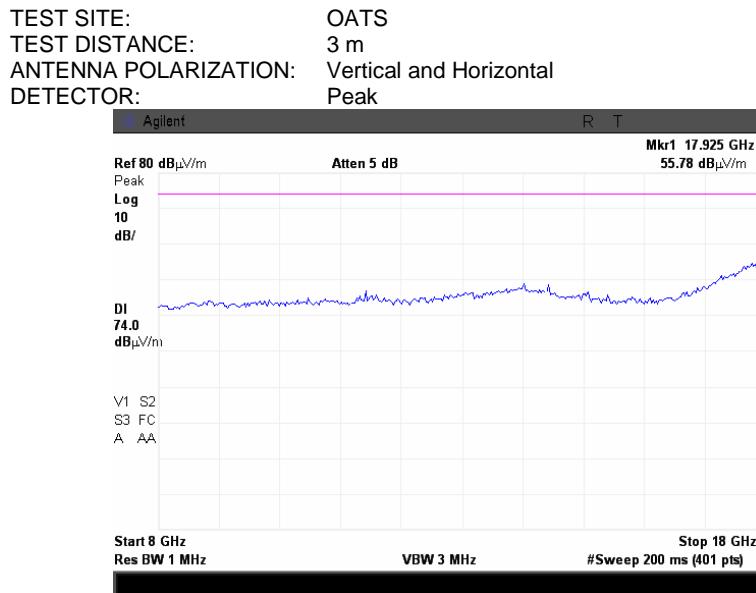
Plot 7.3.34 Radiated emission measurements from 8 to 18 GHz at the second mid carrier frequency

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

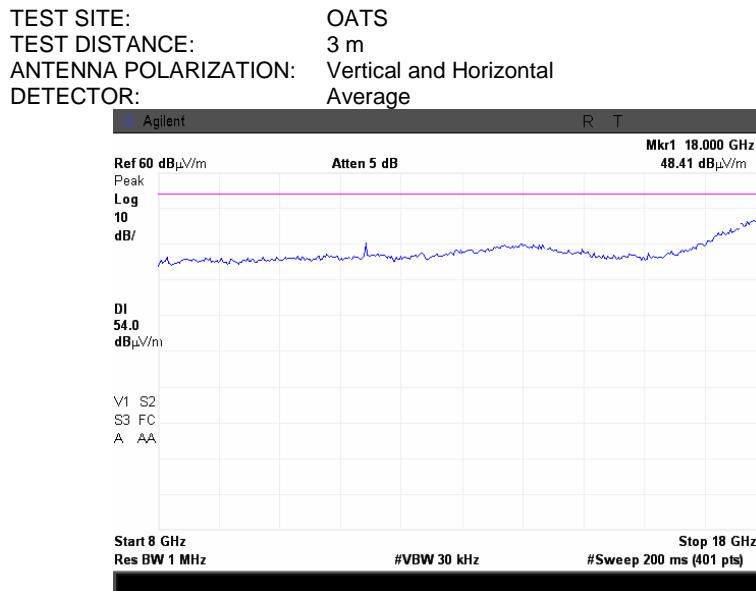


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	
Date:	11/09/2009	PASS	
Temperature: 24°C	Air Pressure: 1015 hPa	Relative Humidity: 47 %	Power Supply: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

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



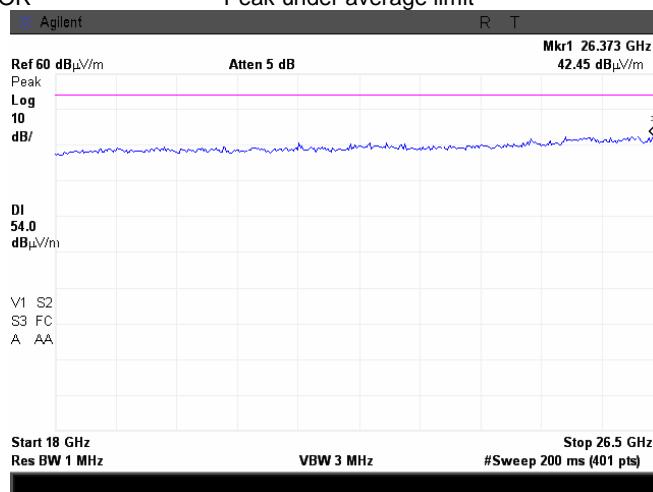
Plot 7.3.36 Radiated emission measurements from 8 to 18 GHz at the high carrier frequency



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

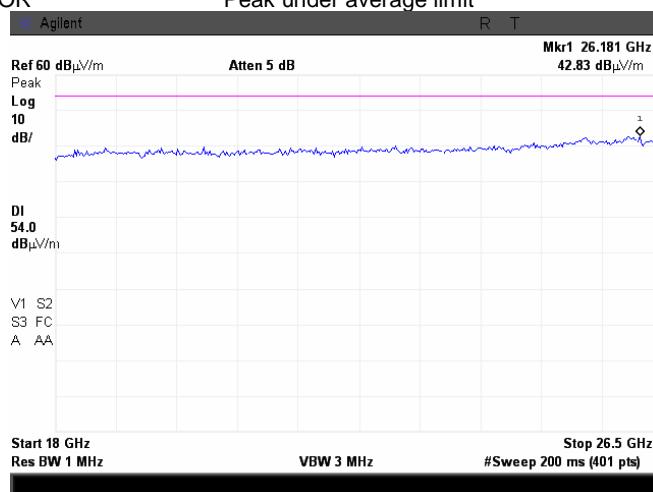
Plot 7.3.37 Radiated emission measurements from 18 to 26.5 GHz at the low carrier frequency

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



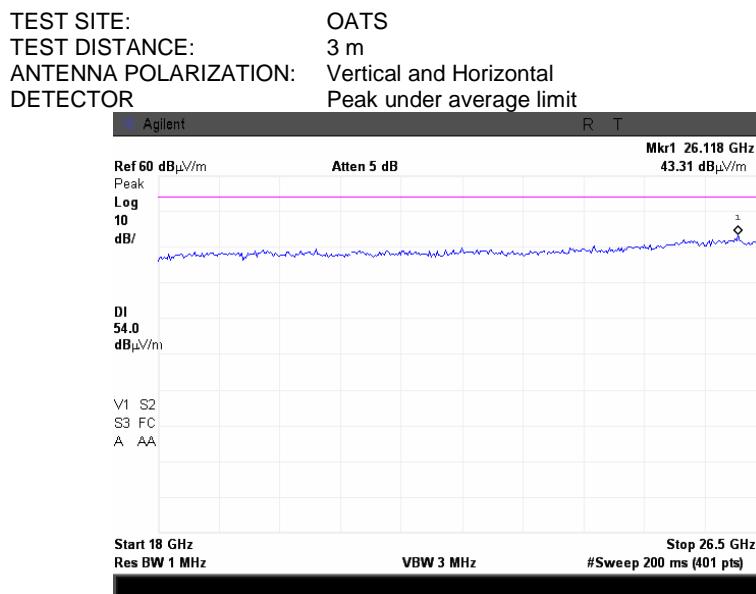
Plot 7.3.38 Radiated emission measurements from 18 to 26.5 GHz at the first mid carrier frequency

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

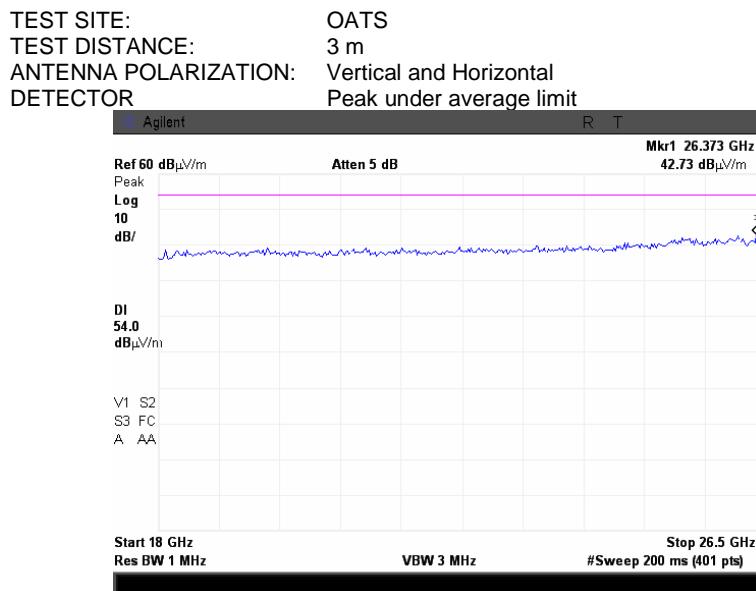


Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict: PASS	
Date:	11/09/2009		
Temperature: 24°C	Air Pressure: 1015 hPa	Relative Humidity: 47 %	Power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

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



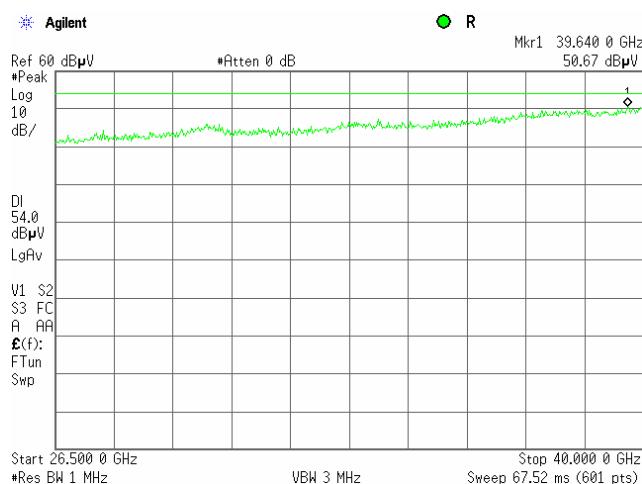
Plot 7.3.40 Radiated emission measurements from 18 to 26.5 GHz at the high carrier frequency (5710 MHz)



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

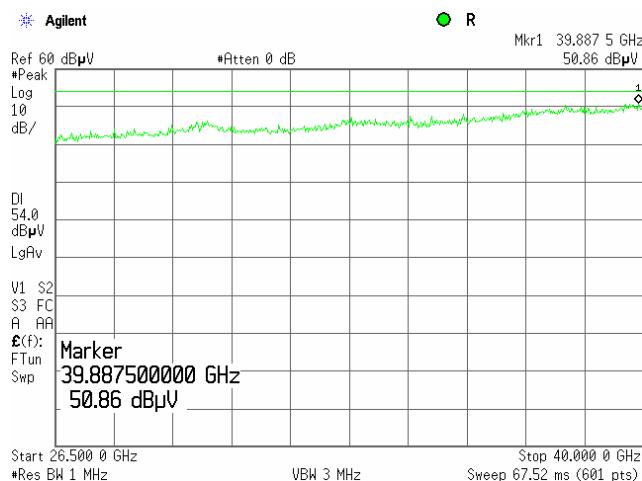
Plot 7.3.41 Radiated emission measurements from 26.5 to 40 GHz at the low carrier frequency

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



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

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

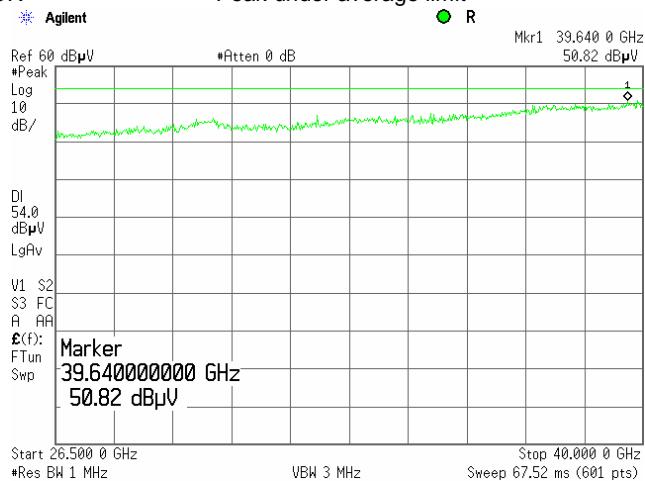




Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	11/09/2009		
Temperature: 24°C	Air Pressure: 1015 hPa	Relative Humidity: 47 %	Power Supply: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

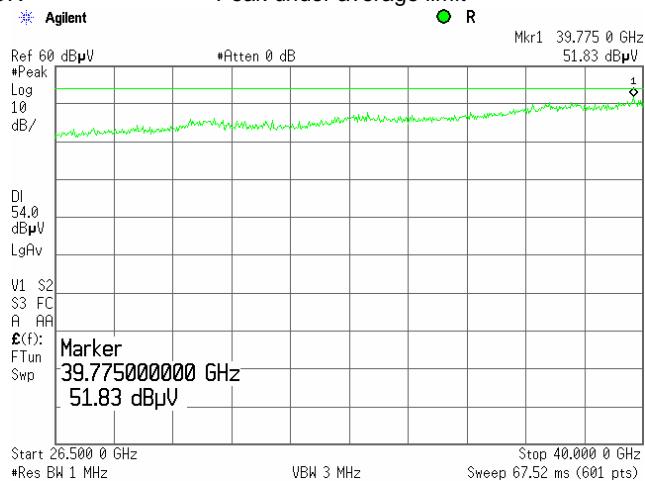
Plot 7.3.43 Radiated emission measurements from 26.5 to 40 GHz at the second mid carrier frequency (5665 MHz)

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



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

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

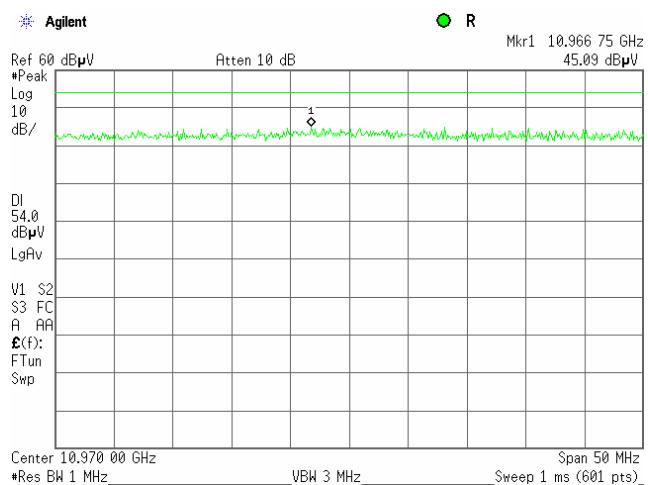




Test specification:	FCC section 15.407(b), RSS-210 Annex 9, section A9.2 Unwanted radiated emissions		
Test procedure:	Public notice DA 00-705 / ANSI C63.4, Section 13.1.4		
Test mode:	Compliance	Verdict:	PASS
Date:	11/09/2009		
Temperature: 24°C	Air Pressure: 1015 hPa	Relative Humidity: 47 %	Power Supply: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

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

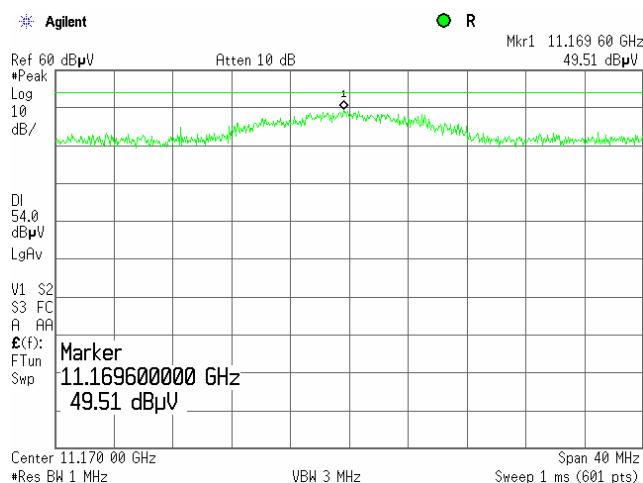
TEST SITE: OATS
TEST DISTANCE: 3 m
DETECTOR: Peak under average limit



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

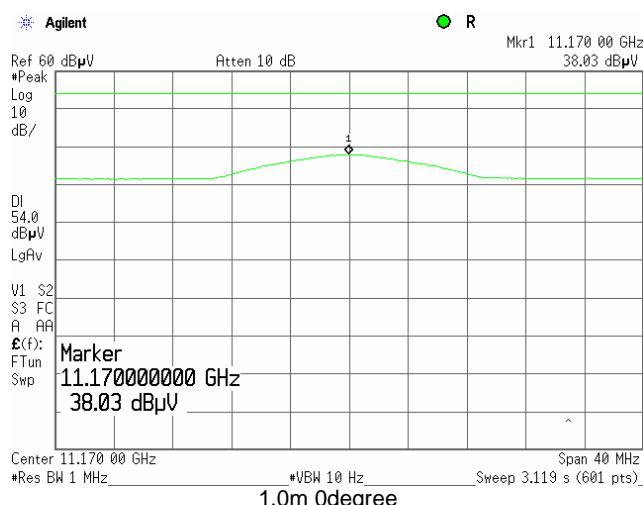
Plot 7.3.46 Radiated emission measurements at the second harmonic of the first mid carrier frequency

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



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

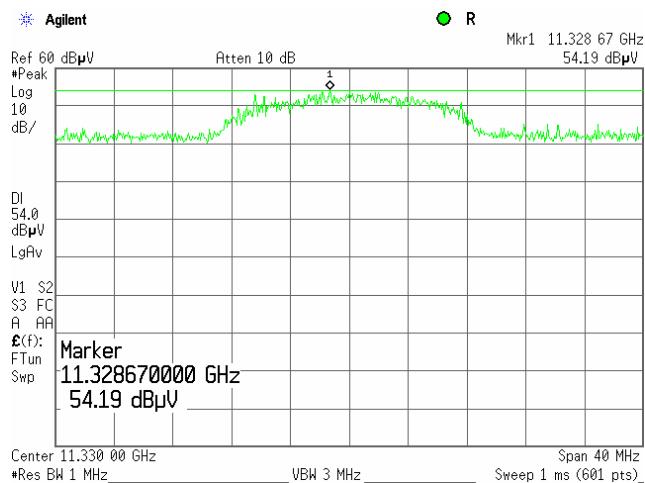
TEST SITE: OATS
TEST DISTANCE: 3 m
DETECTOR Average



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

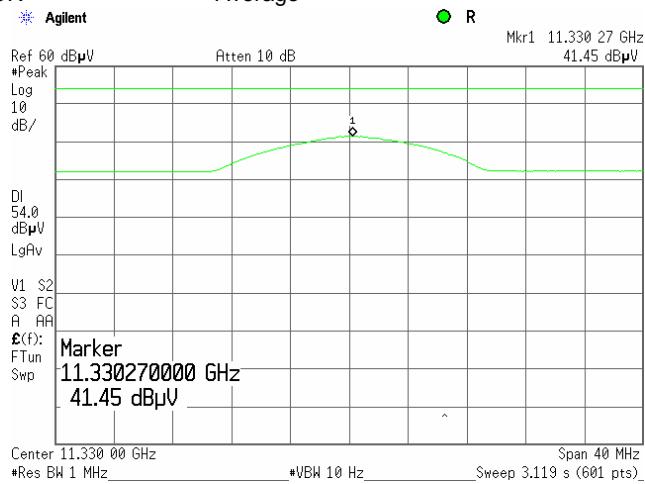
Plot 7.3.48 Radiated emission measurements at the second harmonic of the second mid carrier frequency

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



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

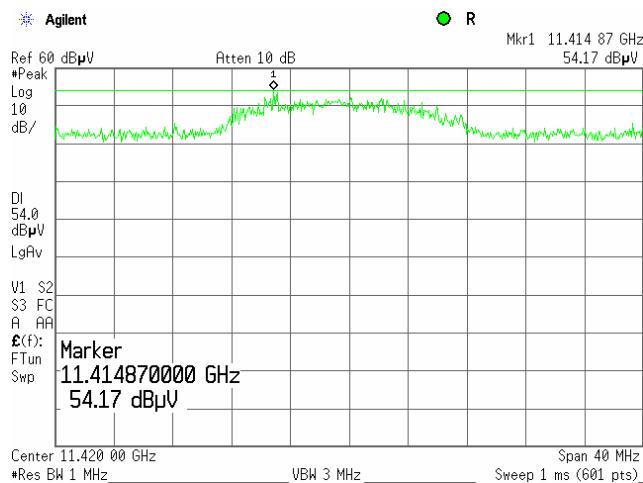
TEST SITE: OATS
TEST DISTANCE: 3 m
DETECTOR Average



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

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

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



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

TEST SITE: OATS
TEST DISTANCE: 3 m
DETECTOR Average

